

High-Volume TSP Sampler
1-Point Calibration Record

Location : A1 (Kennedy Town)
Calibrated by : P.F. Yeung
Date : 20/2/08

Sampler

Model : GMWS-2310 ACCU-VOL
Serial Number : S/N 9315

Calibration Orifice and Standard Calibration Relationship

Serial Number : CM-AIR-43
Service Date : 2 July 2007
Slope (m) : 0.057452
Intercept (b) : -0.026137
Correlation Coefficient(r) : 0.999910

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1010
Ta(K) : 289

Actual flow) : 1.25 m³/min

IC (Indicated flow) : 38 cfm

Checked by: Magnum Fan

Date: 24/2/08

High-Volume TSP Sampler

1-Point Calibration Record

Location : AI (Kennedy Town)
Calibrated by : P.F.Yeung
Date : 21/4/08

Sampler

Model : GMWS-2310 ACCU-VOL
Serial Number : S/N 9315

Calibration Office and Standard Calibration Relationship

Serial Number : CM-AIR-43
Service Date : 2 July 2007
Slope (m) : 0.057452
Intercept (b) : -0.026137
Correlation Coefficient(r) : 0.999910

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1011
Ta(K) : 298

Actual flow : 1.21 m³/min

IC (Indicated flow) : 38 cfm

Checked by: Magnum Fan

Date: 21/4/08

High-Volume TSP Sampler
S-Point Calibration Record

Location : A1
Calibrated by : K.T.Ho
Date : 23/12/07

Sampler
Model : GMWS-2310 ACCU-VOL
Serial Number : S/N 9315

Calibration Office and Standard Calibration Relationship

Serial Number : CM-AIR-43
Service Date : 2 July 2007
Slope (m) : 0.057452
Intercept (b) : -0.026137
Correlation Coefficient(r) : 0.999910

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1011
Ta(K) : 293

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (indicated flow)	Y
1 18 holes	11.4	3.343	1.691	54	53.5
2 13 holes	8.6	2.904	1.471	46	45.6
3 10 holes	6.7	2.563	1.301	40	39.6
4 7 holes	3.9	1.956	0.998	30	29.7
5 5 holes	2.3	1.502	0.771	22	21.8

Sampler Calibration Relationship

Slope(m): 34.197 Intercept(b): -4.5969 Correlation Coefficient(r): 0.9998

Checked by: Magnum Fan Date: 27/12/07

High-Volume TSP Sampler
5-Point Calibration Record

Location : A1
 Calibrated by : K.T.Ho (Kennedy Town)
 Date : 21/04/08

Sampler
 Model : GMWS-2310 ACCU-VOL
 Serial Number : S/N 9315

Calibration Office and Standard Calibration Relationship

Serial Number : CM-AIR-43
 Service Date : 2 July 2007
 Slope (m) : 0.057452
 Intercept (b) : -0.026137
 Correlation Coefficient(r) : 0.999910

Standard Condition

Pstd (hpa) : 1013
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1011
 Ta(K) : 298

Resistance Plate	d11 [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1	18 holes	3.469	1.688	58	58.3
2	13 holes	3.148	1.533	50	50.3
3	10 holes	2.735	1.333	42	42.2
4	7 holes	2.179	1.065	30	30.2
5	5 holes	1.683	0.825	18	18.1

Sampler Calibration Relationship

Slope(m): 45.839 Intercept(b): -19.249 Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan

Date: 21/04/08

High-Volume TSP Sampler1-Point Calibration Record

Location : A2 (Kennedy Town)
Calibrated by : P.F. Yeung
Date : 20/2/08

Sampler

Model : GMWS-2310 ACCU-VOL
Serial Number : S/N 9048

Calibration Orfice and Standard Calibration Relationship

Serial Number : CM-AIR-43
Service Date : 2 July 2007
Slope (m) : 0.057452
Intercept (b) : -0.026137
Correlation Coefficient(r) : 0.999910

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1010
Ta(K) : 289

Actual flow) : 1.31 m³/min

IC (Indicated flow) : 34 cfm

Checked by: Magnum Fan

Date: 24/02/08

High-Volume TSP Sampler

1-Point Calibration Record

Location : A2 (Kennedy Town)
Calibrated by : P.F. Yeung
Date : 21/4/08

Sampler

Model : GMWS-2310 ACCU-VOL
Serial Number : S/N 9048

Calibration Office and Standard Calibration Relationship

Serial Number : CM-AIR-43
Service Date : 2 July 2007
Slope (m) : 0.057452
Intercept (b) : -0.026137
Correlation Coefficient(r) : 0.999910

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1011
Ta(K) : 298

Actual flow : 1.25 m³/min

IC (Indicated flow) : 38 cfm

Checked by: Magnum Fan

Date: 21/04/08

High-Volume TSP Sampler
5-Point Calibration Record

Location : A2
 Calibrated by : K.T.Ho
 Date : 21/12/07
Sampler
 Model : GMWS-2310 ACCU-VOL
 Serial Number : S/N 9048

Calibration Orifice and Standard Calibration Relationship

Serial Number : CM-AIR-43
 Service Date : 2 July 2007
 Slope (m) : 0.057452
 Intercept (b) : -0.026137
 Correlation Coefficient(r) : 0.999910

Standard Condition

Pstd (hpa) : 1013
 Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1011
 Ta(K) : 293

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC	Y
1 18 holes	12.0	3.430	1.734	58	57.4
2 13 holes	9.1	2.987	1.513	46	45.6
3 10 holes	7.7	2.748	1.393	39	38.6
4 7 holes	4.7	2.147	1.093	22	21.8
5 5 holes	2.9	1.686	0.863	10	9.90

Sampler Calibration Relationship

Slope(m): 54.925 Intercept(b): -37.806 Correlation Coefficient(r): 0.9998

Checked by: Magnum Fan

Date: 27/12/07

High-Volume TSP Sampler
5-Point Calibration Record

Location : A2(Kennedy Town)
Calibrated by : K.T.Ho
Date : 21/04/08

Sampler

Model : GMWS-2310 ACCU-VOL
Serial Number : S/N 9048

Calibration Office and Standard Calibration Relationship

Serial Number : CM-AIR-43
Service Date : 2 July 2007
Slope (m) : 0.057452
Intercept (b) : -0.026137
Correlation Coefficient(r) : 0.999910

Standard Condition

Pstd (hpa) : 1013
Tstd (K) : 298.18

Calibration Condition

Pa (hpa) : 1011
Ta(K) : 298

Resistance Plate	dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (indicated flow)	Y
1 18 holes	10.5	3.232	1.573	56	55.9
2 13 holes	8.0	2.821	1.375	48	47.9
3 10 holes	6.3	2.504	1.221	40	39.9
4 7 holes	3.9	1.970	0.963	26	25.9
5 5 holes	2.4	1.545	0.758	12	12.0

Sampler Calibration Relationship

Slope(m): 53.934 Intercept(b): -27.24

Correlation Coefficient(r): 0.9959

Checked by: Magnum Fan

Date: 21/04/08



CERTIFICATE OF CALIBRATION AND TESTING

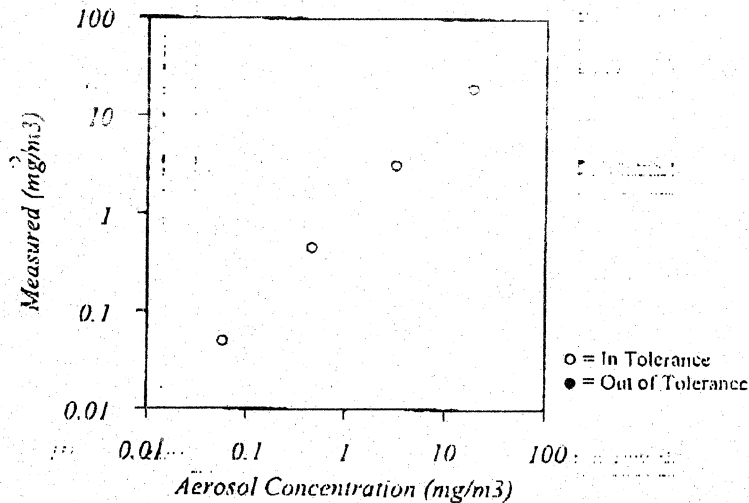
TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA Tel: 1-800-424-7427 1-651-490-2811 Fax: 1-651-490-3824 <http://www.tsi.com>

Environment Condition			Model	8520
Temperature	69.3 (20.7)	°F (°C)	Serial Number	85202623
Relative Humidity	42	%RH		
Barometric Pressure	28.92 (979.3)	inHg (hPa)		

- As Left
- As Found

- In Tolerance
- Out of Tolerance

Linearity Plot



Zero Stability Results

Average:	Minimum:	Maximum:	Time:
0.0000 mg/m ³	0.0000 mg/m ³	0.0000 mg/m ³	160 hrs

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass of standard ISO 12103-1, A1 test dust (Arizona dust). Our calibration ratio is greater than 1.2:1

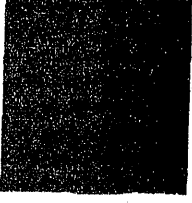
Measurement Variable	System ID	Last Cal.	Cal. Due	Measurement Variable	System ID	Last Cal.	Cal. Due
DC Voltage	E002235	04-05-07	04-05-08	Barometric Pressure	E001329	04-30-07	04-30-08
Temperature	E002873	02-23-07	02-23-08	Humidity	E002873	02-23-07	02-23-08
DC Voltage	E003314	07-11-07	07-11-08	DC Voltage	E003315	07-11-07	07-11-08

[Signature]
 Calibrated

Final Function Check

September 28, 2007

Date



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C071448

Certificate of Calibration

This is to certify that the equipment

Description : Sound Level Meter

Manufacturer : Rion

Model No. : NI-31

Serial No. : 00410224

*has been calibrated for the specific items and ranges.
The results are shown in the Calibration Report No. C071448.*

The equipment is supplied by

Co. Name : Envirotech Services Co.

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong*

Date of Issue : 29 March 2007

Certified by :

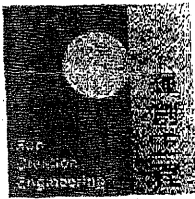


K. C. Lee

The test equipment used for testing are traceable to the National Standards as specified in this report.
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Calibration and Testing Laboratory of Sun Creation Engineering Limited

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Tel: 2727 2606 Fax: 2744 8986 E-mail: callab@suncreation.com Website: www.suncreation.com



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C081909

Certificate of Calibration

This is to certify that the equipment

Description : Sound Level Meter

Manufacturer : Rion

Model No. : NL-31

Serial No. : 00410224

*has been calibrated for the specific items and ranges.
The results are shown in the Calibration Report No. C081909.*

The equipment is supplied by

Co. Name : Envirotech Services Co.

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong*

Date of Issue : 14 April 2008

Certified by :

K C Lee

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輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Certificate No. : C073059

Certificate of Calibration

This is to certify that the equipment

Description : Sound Level Calibrator

Manufacturer : Rion

Model No. : NC-73

Serial No. : 10786708

*has been calibrated for the specific items and ranges.
The results are shown in the Calibration Report No. C073059.*

The equipment is supplied by

Co. Name : Envirotech Services Co.

*Address : Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong*

Date of Issue : 25 June 2007

Certified by :

K.C. Lee

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