High-Volume TSP Sampler
5-Point Calibration Record

Location	:	ASR 5
Calibrated by	:	P.F.Yeung
Date	:	09/10/2013

Sampler

Model	:	TE-5170
Serial Number	:	S/N 0816

Calibration Orfice and Standard Calibration Relationship

Serial Number	:	2323
Service Date	:	26 Dec 2012
Slope (m)	:	2.09107
Intercept (b)	:	-0.02838
Correlation Coefficient(r)	:	0.99996

Standard Condition

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

Calibration Condition

Pa (hpa)	:	1017
Ta(K)	:	299

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	12.5	3.537	1.705	52	52.02
2	13 holes	9.7	3.115	1.503	45	45.01
3	10 holes	7.6	2.758	1.332	40	40.01
4	7 holes	4.7	2.169	1.051	31	31.01
5	5 holes	3.0	1.733	0.842	24	24.01

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b ,Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship (Linear Regression)

Slope(m):32.148 Intercept(b): -2.953 Correlation Coefficient(r): 0.9997

Checked by: Magnum Fan Date: 20/10/2013

High-Volume TSP Sampler
5-Point Calibration Record

Location	:	ASR10A
Calibrated by	:	P.F.Yeung
Date	:	15/10/2013

Sampler

Model	:	TE-5170
Serial Number	:	S/N 8162

Calibration Orfice and Standard Calibration Relationship

Serial Number	:	2323
Service Date	:	26 Dec 2012
Slope (m)	:	2.09107
Intercept (b)	:	-0.02838
Correlation Coefficient(r)	:	0.99996

Standard Condition

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

Calibration Condition

Pa (hpa)	:	1013
Ta(K)	:	301

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	13.0	3.588	1.729	59	58.71
2	13 holes	10.4	3.209	1.548	52	51.74
3	10 holes	7.8	2.779	1.343	45	44.78
4	7 holes	5.0	2.225	1.078	36	35.82
5	5 holes	3.0	1.723	0.838	28	27.86

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b ,Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship (Linear Regression)

Slope(m):34.384 Intercept(b): 1.161 Correlation Coefficient(r): 0.9997

Checked by: Magnum Fan Date: 20/10/2013

High-Volume TSP Sampler
5-Point Calibration Record

Location	:	AQM1
Calibrated by	:	P.F.Yeung
Date	:	17/10/2013

Sampler

Model	:	TE-5170
Serial Number	:	S/N 1253

Calibration Orfice and Standard Calibration Relationship

Serial Number	:	2323
Service Date	:	26 Dec 2012
Slope (m)	:	2.09107
Intercept (b)	:	-0.02838
Correlation Coefficient(r)	:	0.99996

Standard Condition

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

Calibration Condition

Pa (hpa)	:	1017
Ta(K)	:	299

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	13.4	3.662	1.765	56	56.02
2	13 holes	9.4	3.067	1.480	47	47.01
3	10 holes	7.5	2.739	1.324	41	41.01
4	7 holes	5.0	2.237	1.083	33	33.01
5	5 holes	3.0	1.733	0.842	26	26.01

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b ,Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship (Linear Regression)

Slope(m):32.944 Intercept(b): -2.175 Correlation Coefficient(r): 0.9990

Checked by: Magnum Fan Date: 20/10/2013

High-Volume TSP Sampler
5-Point Calibration Record

Location	:	ASR 1
Calibrated by	:	P.F.Yeung
Date	:	17/10/2013

Sampler

Model	:	TE-5170
Serial Number	:	S/N 0146

Calibration Orfice and Standard Calibration Relationship

Serial Number	:	2323
Service Date	:	26 Dec 2012
Slope (m)	:	2.09107
Intercept (b)	:	-0.02838
Correlation Coefficient(r)	:	0.99996

Standard Condition

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

Calibration Condition

Pa (hpa)	:	1016
Ta(K)	:	299

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	13.0	3.605	1.737	52	51.99
2	13 holes	10.4	3.224	1.555	46	45.99
3	10 holes	7.8	2.792	1.349	39	38.99
4	7 holes	5.0	2.236	1.083	30	29.99
5	5 holes	3.0	1.732	0.842	23	22.99

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b ,Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship (Linear Regression)

Slope(m):32.647 Intercept(b): -4.881 Correlation Coefficient(r): 0.9996

Checked by: Magnum Fan Date: 20/10/2013

High-Volume TSP Sampler
5-Point Calibration Record

Location	:	ASR 6A
Calibrated by	:	P.F.Yeung
Date	:	17/10/2013

Sampler

Model	:	TE-5170
Serial Number	:	S/N 1059

Calibration Orfice and Standard Calibration Relationship

Serial Number	:	2323
Service Date	:	26 Dec 2012
Slope (m)	:	2.09107
Intercept (b)	:	-0.02838
Correlation Coefficient(r)	:	0.99996

Standard Condition

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

Calibration Condition

Pa (hpa)	:	1017
Ta(K)	:	299

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	12.5	3.537	1.705	56	56.02
2	13 holes	10.0	3.163	1.526	50	50.01
3	10 holes	8.0	2.829	1.367	44	44.01
4	7 holes	5.2	2.281	1.104	35	35.01
5	5 holes	2.8	1.674	0.814	26	26.01

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b ,Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship (Linear Regression)

Slope(m):32.148 Intercept(b): -2.953 Correlation Coefficient(r): 0.9997

Checked by: Magnum Fan Date: 20/10/2013

High-Volume TSP Sampler
5-Point Calibration Record

Location	:	ASR 9C
Calibrated by	:	P.F.Yeung
Date	:	05/11/2013

Sampler

Model	:	TE-5170
Serial Number	:	S/N 3572

Calibration Orfice and Standard Calibration Relationship

Serial Number	:	2323
Service Date	:	26 Dec 2012
Slope (m)	:	2.09107
Intercept (b)	:	-0.02838
Correlation Coefficient(r)	:	0.99996

Standard Condition

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

Calibration Condition

Pa (hpa)	:	1019
Ta(K)	:	296

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	11.4	3.398	1.638	56	56.36
2	13 holes	9.0	3.019	1.457	50	50.32
3	10 holes	6.6	2.585	1.250	43	43.27
4	7 holes	4.2	2.062	0.100	36	36.23
5	5 holes	2.4	1.559	0.759	29	29.18

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b ,Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship (Linear Regression)

Slope(m):30.801 Intercept(b): 5.465 Correlation Coefficient(r): 0.9991

Checked by: Magnum Fan Date: 08/11/2013

High-Volume TSP Sampler
5-Point Calibration Record

Location	:	ASR9A
Calibrated by	:	P.F.Yeung
Date	:	05/11/2013

Sampler

Model	:	TE-5170
Serial Number	:	S/N 3573

Calibration Orfice and Standard Calibration Relationship

Serial Number	:	2323
Service Date	:	26 Dec 2012
Slope (m)	:	2.09107
Intercept (b)	:	-0.02838
Correlation Coefficient(r)	:	0.99996

Standard Condition

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

Calibration Condition

Pa (hpa)	:	1019
Ta(K)	:	296

Resistance Plate		dH [green liquid] (inch water)	Z	X=Qstd (cubic meter/min)	IC (chart)	Y (corrected)
1	18 holes	10.5	3.261	1.573	60	60.38
2	13 holes	8.2	2.882	1.392	54	54.34
3	10 holes	6.0	2.465	1.192	49	49.31
4	7 holes	4.0	2.013	0.976	42	42.27
5	5 holes	2.6	1.623	0.790	37	37.23

Notes:Z=SQRT{dH(Pa/Pstd)(Tstd/Ta)}, X=Z/m-b ,Y(Corrected Flow)=IC*{SQRT(Pa/Pstd)(Tstd/Ta)}

Sampler Calibration Relationship (Linear Regression)

Slope(m):29.442 Intercept(b): 13.831 Correlation Coefficient(r): 0.9992

Checked by: Magnum Fan Date: 08/11/2013

METHOD REFERNCE

Total Suspended Particulates
ALS Method Code: HK-TSP

New glass fiber filters are conditioned in a desiccator of RH <50% for 24 hours or more before use. The initial filter weight was taken and record in the record book. Then the filter was put in a clean envelope for transportation.

After sampling, the filter was put in a paper holder and condition in a desiccator of RH <50% for 24 hours or more. The filter was removed from the holder carefully before weighing. The final weight was taken and record in the record book.

The dust weight was calculated as the difference of the weight of filter before and after sampling.

Certification of Quality

This product has been tested in accordance with procedures established through Global Water Instrumentation's Quality Management System. This product meets or exceeds its manufacturing acceptance criteria.

ITEM DESCRIPTION:	Wind Speed Sensor
MODEL NAME/ NUMBER:	WE550
PART NUMBER:	EC0000
SENSOR RANGE:	0-110 MPH
SENSOR OUTPUT:	4.00-19.91 mA
ACCURACY:	.2 MPH over the range 11 to 55 MPH
POWER REQUIRED	10-36 VDC
SERIAL NUMBER:	1337005099
CABLE LENGTH:	25 ft
CERTIFICATES:	CE Compliant

WATER

Contact Global Water for all your instrumentation needs:

- Water Level
- Water Flow
- Water Samplers
- Water Quality
- Weather
- Remote Monitoring
- Control

Technician: *Wright, Jess* **Date:** 9/10/2013

NOT Global Water Instrumentation warrants that its products are free from defects in material & workmanship under normal use & service for a period of one year from date of original shipment from factory. Repaired components are warranted for a period of 90 days from shipment. Contact us for complete warranty details.

Global Water
a xylem brand

In the U.S. call toll free at 1-800-876-1172
International 1-979-690-5560
Fax: 1-979-690-0440
Email: globalw@globalw.com

Visit our online catalog at: www.globalw.com
Our Service Address
151 Graham Rd
College Station, TX 77845

Certification of Quality

This product has been tested in accordance with procedures established through Global Water Instrumentation's Quality Management System. This product meets or exceeds its manufacturing acceptance criteria.

ITEM DESCRIPTION:	Wind Direction
MODEL NAME/ NUMBER:	WE570
PART NUMBER:	ED0000
SENSOR RANGE:	0-360 °
SENSOR OUTPUT:	4.01-20.03 mA
ACCURACY:	1% of full scale
POWER REQUIRED	10-36 VDC
SERIAL NUMBER:	1337005143
CABLE LENGTH:	25 ft
CERTIFICATES:	CE Compliant

Technician: *Wright, Jess* **Date:** 9/12/2013

NOT Global Water Instrumentation warrants that its products are free from defects in material & workmanship under normal use & service for a period of one year from date of original shipment from factory. Repaired components are warranted for a period of 90 days from shipment. Contact us for complete warranty details.

Global Water
a xylem brand

In the U.S. call toll free at 1-800-876-1172
International 1-979-690-5560
Fax 1-979-690-0440
Email globalw@globalw.com

Visit our online catalog at www.globalw.com
Our Service Address
151 Graham Rd
College Station, TX 77845

MetPak II™

Product Test Report

Product Tested: MetPak
Part Number: 1723-1B-2-111
Serial Number: 13130002
Test Date: 26/03/2013
Location: Gill Instruments Ltd

GILL ensures that quality is inherent in all aspects of their activities and ensures that compliance with BS EN ISO9001: 2008 is maintained.

This report certifies that the above instrument has been tested in accordance with Gill internal procedures

Results

Test	Limits	Results
Wind Still Air Test (Zero Wind Speed)	Pass/Fail	Pass
Wind Tunnel Test (12m/s nominal)	Pass/Fail	Pass
Pressure Sensor (Comparison DPI 142)	Pass/Fail	Pass
Temperature Sensor (Comparison HC2-S (SCS certified))	Pass/Fail	Pass
Humidity Sensor (Comparison HC2-S (SCS certified))	Pass/Fail	Pass

Wind sensor generic calibration is traceable to the University of Southampton wind tunnel and Gill instrumentation is maintained in accordance with UKAS.

Comparisons for Temperature, Humidity and Pressure are done against reference UKAS traceable instruments. The reference system numbers of these instruments are listed above.

All tests have been successfully completed

On behalf of Gill Instruments Ltd

Tony Raine
Quality Control

2002-0396 Issue 1

Gill Instruments Ltd
Solent Park
67 Gosport Street
Lymington
Hampshire
SO41 9EG, UK

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E: anem@gill.co.uk

www.gill.co.uk

nqa. ISO 9001 Registered

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: MR K.W. FAN	WORK ORDER	: **HK1327473**
CLIENT	: **ENVIROTECH SERVICES CO.**		
ADDRESS	: SHOP 6, G/F. CASIO MANSION, 209 SHAUKEIWAN ROAD HONG KONG	SUB-BATCH DATE RECEIVED DATE OF ISSUE	: 1 : 7-OCT-2013 : 22-OCT-2013
PROJECT	: ----	NO. OF SAMPLES CLIENT ORDER	: 1 : ----

General Comments

- **Sample(s) were received in an ambient condition.**
- **Sample(s) analysed and reported on an as received basis.**
- **Calibration was subcontracted to and analysed by Action United Enviro Services.**

Signatories

This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the Electronic Transactions Ordinance of Hong Kong, Chapter 553, Section 6.

Signatories	*Position*
Richard Fung	General Manager

This is the Final Report and supersedes any preliminary report with this batch number.
Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

WORK ORDER : HK1327473
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : ----

ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK1327473-001	S/N: 245834	Equipment	07-OCT-2013	S/N: 245834

Equipment Calibration Record

Equipment Calibrated:

Type:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	245834
Equipment Ref:	Nil
Job Order	HK1327473

Standard Equipment:

Standard Equipment:	Higher Volume Sampler
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018
Last Calibration Date:	8 October 2013

Equipment Calibration Results:

Calibration Date: 10 & 11 October 2013

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m^3 (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/60min)
1hr50min	12:00 ~ 13:50	27.0	1012.8	0.123	6013	56.0
4hr25min	13:55 ~ 18:20	27.0	1012.8	0.207	26441	99.5
16hr20min	18:25 ~ 10:45	27.0	1012.8	0.050	25113	25.7

Sensitivity Adjustment Scale Setting (Before Calibration) 765 (CPM)

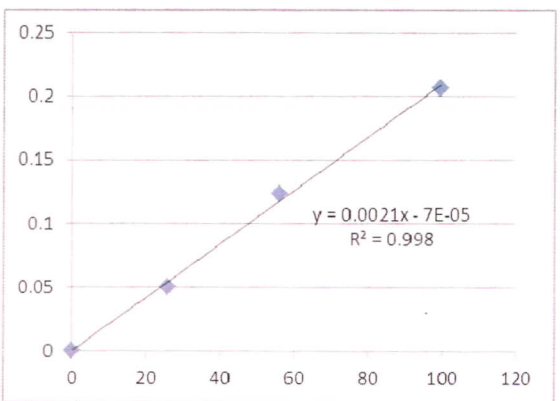
Sensitivity Adjustment Scale Setting (After Calibration) 760 (CPM)

Linear Regression of Y or X

Slope (K-factor): 0.0021

Correlation Coefficient 0.9980

Validity of Calibration Record 16 Oct 2013



Operator : Tung Chi Sun Signature : Date : 16 October 2013

QC Reviewer : Ben Tam Signature : Date : 16 October 2013

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location :	Gold King Industrial Building, Kwai Chung	Date of Calibration:	8-Oct-13
Location ID :	Calibration Room	Next Calibration Date:	8-Jan-14

CONDITIONS

Sea Level Pressure (hPa)	1008.1	Corrected Pressure (mm Hg)	756.075
Temperature (°C)	26.8	Temperature (K)	300

CALIBRATION ORIFICE

Make->	TISCH	Qstd Slope ->	2.11662
Model->	5025A	Qstd Intercept ->	-0.01714
Calibration Date->	9-Apr-13	Expiry Date->	9-Apr-14

CALIBRATION

Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)	I (chart)	IC corrected
18	3.8	3.8	7.6	1.303	66	65.63
13	3	3	6.0	1.159	64	63.64
10	2.2	2.2	4.4	0.994	60	59.66
8	1.2	1.2	2.4	0.736	54	53.70
5	0.9	0.9	1.8	0.638	52	51.71

LINEAR REGRESSION

Slope = 21.6637
Intercept = 37.9417
Corr. coeff. = 0.9975

Calculations :

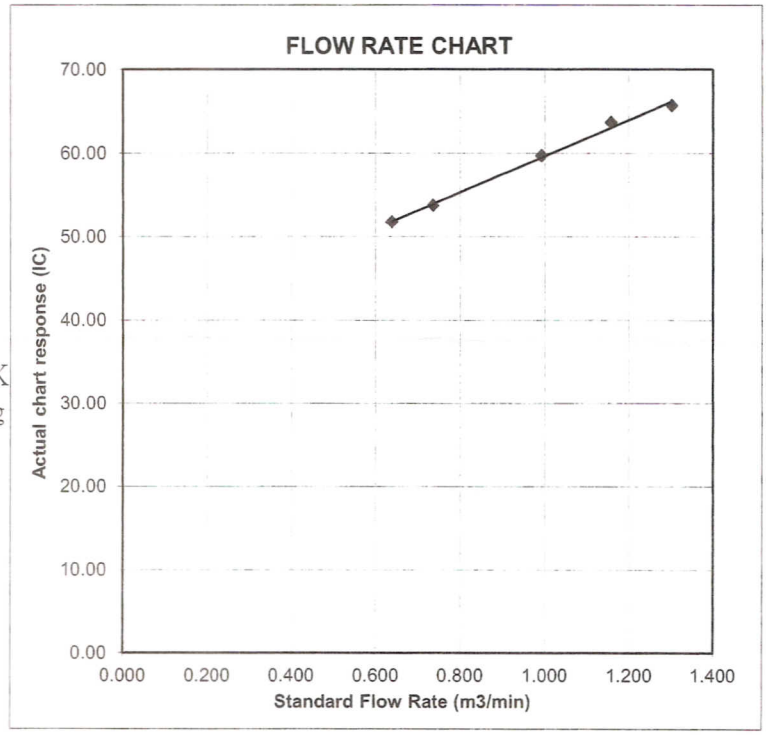
Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]
IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate
IC = corrected chart respones
I = actual chart response
m = calibrator Qstd slope
b = calibrator Qstd intercept
Ta = actual temperature during calibration (deg K
Pstd = actual pressure during calibration (mm Hg

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure



ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: MR K.W. FAN	WORK ORDER	: **HK1327471**
CLIENT	: **ENVIROTECH SERVICES CO.**		
ADDRESS	: SHOP 6, G/F. CASIO MANSION, 209 SHAUKEIWAN ROAD HONG KONG	SUB-BATCH DATE RECEIVED DATE OF ISSUE	: 1 : 7-OCT-2013 : 22-OCT-2013
PROJECT	: ----	NO. OF SAMPLES CLIENT ORDER	: 1 : ----

General Comments

- **Sample(s) were received in an ambient condition.**
- **Sample(s) analysed and reported on an as received basis.**
- **Calibration was subcontracted to and analysed by Action United Enviro Services.**

Signatories

This document has been electronically signed by those names that appear on this report and are the authorised signatories. Electronic signing has been carried out in compliance with procedures specified in the Electronic Transactions Ordinance of Hong Kong, Chapter 553, Section 6.

Signatories	*Position*
Richard Fung	General Manager

This is the Final Report and supersedes any preliminary report with this batch number.
Results apply to sample(s) as submitted. All pages of this report have been checked and approved for release.

WORK ORDER : HK1327471
SUB-BATCH : 1
CLIENT : ENVIROTECH SERVICES CO.
PROJECT : ----

ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK1327471-001	S/N: IY5546	Equipment	07-OCT-2013	S/N: IY5546

Equipment Calibration Record

Equipment Calibrated:

Type:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	1Y5546
Equipment Ref:	Nil
Job Order	HK1327471

Standard Equipment:

Standard Equipment:	Higher Volume Sampler
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018
Last Calibration Date:	8 October 2013

Equipment Calibration Results:

Calibration Date: 10 & 11 October 2013

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in mg/m^3 (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/60min)
1hr50min	12:00 ~ 13:50	27.0	1012.8	0.123	5911	55.0
4hr25min	13:55 ~ 18:20	27.0	1012.8	0.207	24157	90.9
16hr20min	18:25 ~ 10:45	27.0	1012.8	0.050	24112	24.7

Sensitivity Adjustment Scale Setting (Before Calibration) 629 (CPM)

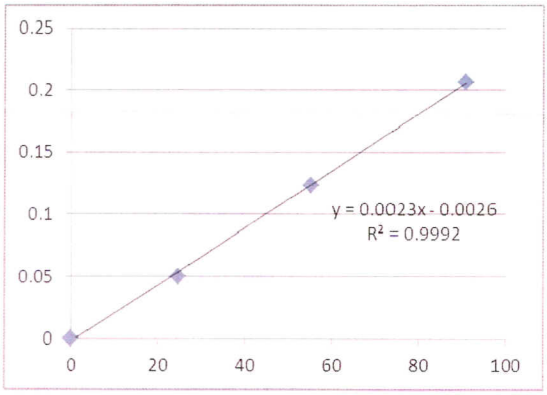
Sensitivity Adjustment Scale Setting (After Calibration) 633 (CPM)

Linear Regression of Y or X

Slope (K-factor): 0.0023

Correlation Coefficient 0.9992

Validity of Calibration Record 16 Oct 2013



Operator : Tung Chi Sun Signature : Sun Date : 16 October 2013

QC Reviewer : Ben Tam Signature : Date : 16 October 2013

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location :	Gold King Industrial Building, Kwai Chung	Date of Calibration:	8-Oct-13
Location ID :	Calibration Room	Next Calibration Date:	8-Jan-14

CONDITIONS

Sea Level Pressure (hPa)	1008.1	Corrected Pressure (mm Hg)	756.075
Temperature (°C)	26.8	Temperature (K)	300

CALIBRATION ORIFICE

Make->	TISCH	Qstd Slope ->	2.11662
Model->	5025A	Qstd Intercept ->	-0.01714
Calibration Date->	9-Apr-13	Expiry Date->	9-Apr-14

CALIBRATION

Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)	I (chart)	IC corrected	LINEAR REGRESSION
18	3.8	3.8	7.6	1.303	66	65.63	Slope = 21.6637
13	3	3	6.0	1.159	64	63.64	Intercept = 37.9417
10	2.2	2.2	4.4	0.994	60	59.66	Corr. coeff. = 0.9975
8	1.2	1.2	2.4	0.736	54	53.70	
5	0.9	0.9	1.8	0.638	52	51.71	

Calculations :

Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]
IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate
IC = corrected chart respones
I = actual chart response
m = calibrator Qstd slope
b = calibrator Qstd intercept
Ta = actual temperature during calibration (deg K
Pstd = actual pressure during calibration (mm Hg

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure