

Certificate of Calibration - Wind Monitoring Station

Description: Yau Lai Estate, Bik Lai House

Manufacturer: <u>Davis Instruments</u>

Model No.: Davis7440

Serial No.: <u>MC01010A44</u>

Equipment No.: SA-03-04

Date of Calibration <u>17-Aug-2024</u>

Next Due Date <u>17-Feb-2025</u>

1. Performance check of Wind Speed

Wind Sp	peed, m/s	Difference D (m/s)		
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 - V2		
0.0 0.0		0.0		
1.5		-0.1		
2.5 2.3		0.2		
4.0	4.0	0.0		

2. Performance check of Wind Direction

Wind Di	rection (°)	Difference D (°)		
Wind Direction Reading (W1)	Marine Compass Value (W2)	D = W1 - W2		
0	0	0.0		
90	90	0.0		
180	180	0.0		
270	270	0.0		

Test Specification:

- 1. Performance Wind Speed Test The wind meter was on-site calibrated against the anemometer
- 2. Performance Wind Direction Test The wind meter was on-site calibrated against the marine compass at four direction

Calibrated by:

Wong Shing Kwai

Approved by:

Henry Leung



Certificate of Calibration - Wind Monitoring Station

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Manufacturer: <u>Davis Instruments</u>

Model No.: <u>Davis7440</u>

Serial No.: MC01010A44

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Date of Calibration <u>17-Feb-2025</u>

Next Due Date <u>17-Aug-2025</u>

1. Performance check of Wind Speed

Wind Sp	peed, m/s	Difference D (m/s)		
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 - V2		
0.0 0.0		0.0		
1.5	1.4	0.1		
2.5 2.4		0.1		
4.0 3.8		0.2		

2. Performance check of Wind Direction

Wind Di	rection (°)	Difference D (°)		
Wind Direction Reading (W1)	Marine Compass Value (W2)	D = W1 - W2		
0 0		0.0		
90	90	0.0		
180 180		0.0		
270	270	0.0		

Test Specification:

- 1. Performance Wind Speed Test The wind meter was on-site calibrated against the anemometer
- 2. Performance Wind Direction Test The wind meter was on-site calibrated against the marine compass at four direction

Calibrated by:

Wong Shing Kwai

Approved by:

Henry/Leung





RECALIBRATION DUE DATE:

January 7, 2026

Certificate of Calibration

Calibration Certification Information

Cal. Date: January 7, 2025 Rootsmeter S/N: 438320 Ta: 293 °K

Operator: Jim Tisch Pa: 759.0 mm Hg

Calibration Model #: TE-5025A Calibrator S/N: 3864

Run	Vol. Init (m3)			ΔP (mm Hg)	ΔH (in H2O)	
1	1	2	1	1.4590	3.2	2.00
2	3	4	1	1.0360	6.4	4.00
3	5	6	1	0.9160	8.0	5.00
4	7	8	1	0.8800	8.8	5.50
5	9	10	1	0.7270	12.7	8.00

	Data Tabulation								
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	$\sqrt{\Delta H(Ta/Pa)}$				
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)				
1.0114	0.6932	1.4252	0.9958	0.6825	0.8787				
1.0071	0.9721	2.0156	0.9916	0.9571	1.2427				
1.0050	1.0971	2.2535	0.9895	1.0802	1.3893				
1.0039	1.1408	2.3635	0.9884	1.1232	1.4572				
0.9987	1.3737	2.8505	0.9833	1.3525	1.7574				
	m=	2.08969		m=	1.30853				
QSTD	b=	-0.02374	QA	b=	-0.01464				
	r=	0.99985		r=	0.99985				

	Calculations						
	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)				
Qstd=	Qstd= Vstd/ΔTime Qa= Va/ΔTime						
	For subsequent flow rate calculations:						
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$				

Standard Conditions						
Tstd: 298.15 °K						
Pstd:	760 mm Hg					
	Key					
	or manometer reading (in H2O)					
	ΔP: rootsmeter manometer reading (mm Hg)					
	Ta: actual absolute temperature (°K)					
	Pa: actual barometric pressure (mm Hg)					
b: intercept						
m: slope						

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

FAX: (513)467-9009

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA16034/05/0051

Project No.	AM1 - Tin Hau	Temple					
Date:	14-Dec-24		Next Due Date:	Next Due Date: 14-Feb-25		Operator:	SK
Equipment No.:	A-0	1-05	Model No.:	:GS2310		Serial No.	10599
			Ambient C	andition			
Temperatur	re Ta (K)	288.5	Pressure, Pa			768.6	
Temperatur	ic, 14 (11)	200.5	11035410, 14	(mmrg)		700.0	
		Or	ifice Transfer Star	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05976	Intercept	t, bc	-0.05018
Last Calibration Date: $ 15-Jan-24 \qquad \qquad \mathbf{mc} \times \mathbf{Qstd} + \mathbf{bc} = \left[\Delta \mathbf{H} \times (\mathbf{Pa}/760) \times (\mathbf{298/Ta})\right]^{1/2} $							
Next Calibra	ation Date:	14-Jan-25		$Qstd = \{ [\Delta H \ x] \}$	(Pa/760) x (298/7	Γa)] ^{1/2} -bc} / mo	
			Calibration of 7	ΓSP Sampler			
Calibration		Oı	fice	Qstd (CFM)		HVS	1/0
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}		ΔW (HVS), in. of water		0) x (298/Ta)] ^{1/2} -axis
1	13.2		3.71	62.98	8.5	2	2.98
2	10.1		3.25	55.19	6.5	2	2.61
3	7.2		2.74	46.73	4.3	2	2.12
4	5.0		2.29	39.08	2.6	1	.65
5	2.8		1.71	29.46	1.4	1	.21
By Linear Regr	ession of Y on Y	K					
Slope , mw =	0.0540	_]	Intercept, bw :	-0.410	6	
Correlation of	coefficient* =	0	.9988				
*If Correlation C	Coefficient < 0.99	90, check and rec	calibrate.				
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration (Curve, take Qstd	= 43 CFM				
From the Regress	sion Equation, th	ne "Y" value acco	ording to				
		mw v ($\mathbf{pstd} + \mathbf{bw} = [\mathbf{\Delta W} \ \mathbf{x}]$	(Pa/760) v (20	08/Ta)1 ^{1/2}		
		IIIW X (zstu + DW – [ΔW x	(F a/ /00) X (2)	76/1a)j		
Therefore, Se	et Point; W = (m	nw x Qstd + bw)	² x (760 / Pa) x (7	Γa / 298) =	3.50		
Remarks:							
•							
				10	- 1		
Conducted by:	Wong St	ning Kwai	Signature:	X	<u> </u>	Date	14-Dec-24
conducted by.	THOIR DI		Signature.		X 29 27		11 200 27
Checked by:	Henry	Leung	Signature:	\-lem	y day	Date:	14-Dec-24

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA16034/05/0052

Project No.	AM1 - Tin Hau	Temple				_	
Date:	14-F	eb-25	Next Due Date: 14-Apr-25		Apr-25	Operator:	SK
Equipment No.:	A-0	01-05	Model No.:	GS2310		Serial No.	10599
			Ambient C	andition			
Temperatur	• To (K)	291.2	Pressure, Pa		Ι	763.4	
Temperatur	e, 1a (K)	291.2	Tressure, ra	(IIIIII Ig)		703.4	
		Or	ifice Transfer Star	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05914	Intercept	t, bc	-0.02377
Last Calibra	tion Date:	7-Jan-25	r	nc x Qstd + bo	$c = [\Delta H \times (Pa/760]]$)) x (298/Ta)] ^{1/2}	!
Next Calibra	ation Date:	7-Jan-26		$Qstd = \{ [\Delta H \ x] \}$	(Pa/760) x (298/	Ta)] ^{1/2} -bc} / me	c
			Calibration of	ΓSP Sampler	I		
Calibration	ATT / 'C' \		fice	0.1.075	ANT (1977)	HVS	(000 = 1.71/2
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		50) x (298/Ta)] ^{1/2} -axis
1	13.1		3.67	62.45	8.6	,	2.97
2	10.2		3.24	55.15	6.4	4	2.56
3	7.1		2.70	46.08	4.2	7	2.08
4	5.1		2.29	39.12	2.7		1.67
5	2.9		1.73	29.60	1.4	-	1.20
By Linear Regr	ession of Y on X	X					
Slope , mw =	0.0543		1	Intercept, bw	-0.428	89	
Correlation of	coefficient* =	0	.9996				
*If Correlation C	coefficient < 0.9	90, check and red	calibrate.				
			Set Point Ca	lculation			
From the TSP Fig	eld Calibration (Curve, take Qstd					
		ne "Y" value acco					
· ·	•				1/2		
		mw x ($\mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore, Se	t Point: W = (n	nw x Ostd + bw)	² x (760 / Pa) x (7	Γa / 298) =	3.54		
, ~-			(, , , , , , , , , , , , , , , ,				
Remarks:							
Kemarks.							
•							
	-		~ -	X) -	_	
Conducted by:	Wong Sl	ning Kwai	Signature:	, (Date:	14-Feb-25
Checked by:	Henry	Leung	Signature:	\-lem	y Xon	Date:	14-Feb-25
					,		

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET



File No. MA16034/08/0051

Project No.	AM2 - Sai Tso	Wan Recreation	Ground				
Date:	14-D	ec-24	Next Due Date:	te: 14-Feb-25 o.: GS2310		Operator:	SK
Equipment No.:	A-0	1-08	Model No.:			Serial No.	1287
			Ambient C	ondition			
Temperatur	re, Ta (K)	288.5	Pressure, Pa	(mmHg)		768.6	
Serial	No	3864	Slope, mc	ndard Informa 0.05976		· ho	-0.05018
Last Calibra		15-Jan-24		0.05976 Intercept, bc -0.0 mc x Qstd + bc = [ΔH x (Pa/760) x (298/Ta)] ^{1/2}			
Next Calibra		13-Jan-24 14-Jan-25			$(Pa/760) \times (298/7)$		
TVOXE CUITOTE	ation Bute.			<u> </u>	(1 4, 7 0 0) 12 (2 5 0 7 2	,	·
			Calibration of	TSP Sampler			
Calibration		Or	fice			HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		0) x (298/Ta)] ^{1/2} -axis
1	13.3		3.73	63.21	8.2	2	2.93
2	10.3		3.28	55.73	6.3	2	2.57
3	7.5		2.80	47.68	4.0	2	2.04
4	5.2		2.33	39.84	2.5	1	1.62
5	3.0		1.77	30.46	1.5	1	1.25
Slope , mw = Correlation C	coefficient* =		.9964	Intercept, bw :	-0.415	7	
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration C	Curve, take Qstd					
From the Regress							
		_		·	20 15 22 1/2		
		mw x ($\mathbf{Qstd} + \mathbf{bw} = [\mathbf{\Delta W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)]" ²		
Therefore, Se	et Point; W = (m	w x Qstd + bw)	² x (760 / Pa) x (7	Γa / 298) =	3.28		
Remarks:							
·							
•							
				- 10	- 1		
Conducted by:	Wong Sh	ing Kwai	Signature:	X	<u>}_</u> -	Date:	14-Dec-24
, , , , , , , , , , , , , , , , , , ,	<u> </u>			1	-		
Checked by:	Henry	Leung	Signature:	- lem	y Xory	Date:	14-Dec-24

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET



File No. MA16034/08/0052

Project No.	AM2 - Sai Tso V	Van Recreation	Ground				
Date:	e: 14-Feb-25 ipment No.: A-01-08		Next Due Date:	Next Due Date: 14-Apr-25		Operator:	SK
Equipment No.:			Model No.:	GS	52310	Serial No.	1287
			Ambient C	Condition			
Temperatur	re, Ta (K)	291.2	Pressure, Pa			763.4	
Serial	No	3864	Slope mc			t he	-0.02377
Last Calibra		7-Jan-25	Slope, mc 0.05914 Intercept, bc -0.02 $mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$				
Next Calibra		7-Jan-26			$(Pa/760) \times (298/7)$		
			<u>I</u>			,,	
			Calibration of	TSP Sampler			
Calibration		Oı	fice			HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	60) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		0) x (298/Ta)] ^{1/2} -axis
1	13.4		3.71	63.16	8.4		2.94
2	10.2		3.24	55.15	6.2	2	2.52
3	7.6		2.80	47.66	4.1	2	2.05
4	5.3		2.33	39.87	2.6	1	1.63
5	3.2		1.82	31.12	1.4	1	1.20
Slope, mw = Correlation C *If Correlation C	coefficient* =		.9993	-	-0.535		
			Set Point C	alculation			
	eld Calibration C						
rom the regress	non Equation, un		-		419		
		mw x ($\mathbf{pstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	x (Pa/760) x (29	$[98/Ta]^{1/2}$		
Therefore, Se	et Point; W = (my	w x Qstd + bw)	² x (760 / Pa) x (′	Γa / 298) =	3.25		
Remarks:							
•				1 -	1		
Conducted by:	Wong Shi	ing Kwai	Signature:		<u> </u>	Date:	14-Feb-25
Checked by:	Henry	Leung	Signature:	\-lem	J Xong	Date:	14-Feb-25

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA16034/03/0051

Project No.	AM3 - Yau Lai	Estate, Bik Lai I	House				
Date:	14-D	ec-24	Next Due Date:	14-	Feb-25	Operator:	SK
Equipment No.:	A-0	01-03	Model No.:	GS	S2310	Serial No.	10379
·			•				
	T		Ambient C	ondition			
Temperatur	re, Ta (K)	288.5	Pressure, Pa	(mmHg)		768.6	
				1 17 0			
Caria1	No		ifice Transfer Star		I	la o	0.05019
Serial Last Calibra		3864 15-Jan-24	Slope, mc	0.05976 mc x Ostd + bo	Intercept $c = [\Delta H \times (Pa/760)]$		-0.05018
Next Calibra	Ì	13-Jan-24 14-Jan-25			$(Pa/760) \times (298/7)$		
TVCAL CUITOIL	ition Date.			<u> </u>	(1 u/100) h (2)0/	(a) (bc) / In	
		•	Calibration of 7	TSP Sampler			
Calibration		Oı	fice			HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		60) x (298/Ta)] ^{1/2} -axis
1	12.9		3.67	62.27	8.0	2	2.89
2	10.2		3.26	55.46	6.2	-	2.54
3	7.7		2.84	48.30	4.2	2	2.09
4	5.2		2.33	39.84	2.7	-	1.68
5	2.9		1.74	29.96	1.6		1.29
By Linear Regr Slope, mw = Correlation of *If Correlation C	0.0503 coefficient* =	0	.9965	Intercept, bw :	-0.272	9	
			Set Point Ca	alculation			
From the TSP Fig From the Regress Therefore, Se	sion Equation, th	mw x (98/Ta)] ^{1/2}		
Remarks:				h	<u> </u>		
Conducted by:	Wong Sh	ning Kwai	. Signature:		<u> </u>	Date:	14-Dec-24
Checked by:	Henry	Leung	Signature:	- Lem	J May	Date:	14-Dec-24

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA16034/03/0052

Project No.	AM3 - Yau Lai	Estate, Bik Lai I	House			_	
Date:	14-F	eb-25	Next Due Date:	14-	Apr-25	Operator:	SK
Equipment No.:	A-0	1-03	_		S2310		10379
			Ambient C	ondition			
Temperatur	re Ta (K)	291.2	Pressure, Pa			763.4	
Temperatur	ic, ia (ix)	2)1.2	Tressure, ra	(IIIIII Ig)		703.4	
		Or	ifice Transfer Star	ndard Informa	ntion		
Serial	No.	3864	Slope, mc	0.05914	Intercept	t, bc	-0.02377
Last Calibra	ation Date:	7-Jan-25	1	mc x Qstd + bo	$c = [\Delta H \times (Pa/760]]$	$(298/Ta)^{1/2}$	2
Next Calibra	ation Date:	7-Jan-26			(Pa/760) x (298/		
			Calibration of	TSP Sampler			
Calibration		Oı	fice	I		HVS	1/2
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		50) x (298/Ta)] ^{1/2} -axis
1	13.0		3.66	62.21	8.1	2	2.89
2	10.1		3.22	54.88	6.1	2	2.50
3	7.5		2.78	47.35	4.3	2	2.10
4	5.1		2.29	39.12	2.6		1.63
5	3.0		1.76	30.10	1.5	-	1.24
By Linear Regr Slope, mw = Correlation of *If Correlation C	0.0519 coefficient* =		.9991	Intercept, bw :	-0.351		
			Set Point Ca	alculation			
From the TSP Fi		ne "Y" value acc	= 43 CFM		98/Ta)] ^{1/2}		
Therefore, Se	et Point; W = (m	nw x Qstd + bw)	² x (760 / Pa) x (7	Γa / 298) =	3.44		
Remarks:							
Conducted by:	Wong Sł	ning Kwai	Signature:	K	<u></u>	Date:	14-Feb-25
Checked by:	Henry	Leung	Signature:	\-lem	1 (Xo)	Date:	14-Feb-25

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA20003/55/030 Project No. CKL 2 - Flat 103 Cha Kwo Ling Village 4-Jan-25 Next Due Date: 6-Mar-25 Operator: SK Date: Equipment No.: A-01-55 Model No.: TE 5170 Serial No. 1956 **Ambient Condition** 292.7 Temperature, Ta (K) Pressure, Pa (mmHg) 765.4 **Orifice Transfer Standard Information** 0.05976 Intercept, bc 3864 Slope, mc Serial No. -0.05018 $mc \times Ostd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ Last Calibration Date: 15-Jan-24 Qstd = $\{ [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} -bc \} / mc$ 14-Jan-25 Next Calibration Date: **Calibration of TSP Sampler** Orfice Calibration $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ ΔH (orifice), Ostd (CFM) ΔW (HVS), in. $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ Point in. of water X - axis of water Y-axis 3.07 1 13.6 3.73 63.33 9.2 11.2 2.74 2 3.39 57.55 7.3 3.04 51.67 5.7 2.42 4 5.3 2.33 39.85 2.6 1.63 3.6 32.99 1.8 5 1.92 1.36 By Linear Regression of Y on X Slope , mw = 0.0581 Intercept, bw : -0.6068 Correlation coefficient* = 0.9980 *If Correlation Coefficient < 0.990, check and recalibrate. **Set Point Calculation** From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 3.49 Remarks: Conducted by: Wong Shing Kwai Checked by: Henry Leung



Certificate of Calibration

It is	certified that t	the item und	ler calibration b	nas heen	calibrated by	corresponding	calibrated High	Volume Sample
11 15	сеннестна г	ше пеш ша	ег санытанон г	Ias Deen	Cambrated by	COHESDOHUIII9	Cambrated migh	. voiime Jannoie

Description:	Laser Dust Mo	nitor		Date of	of Calibration	30-Jan-25
Manufacturer:	Sibata Scientifi	ic Technology LTD.		Validity of Calibra	ation Record	1-Apr-25
Model No.:	LD-3B					
Serial No.:	2Y6194	_				
Equipment No.:	SA-01-02		Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.:	A-01-03	Before Sensi	tivity Adjustment	578	
Tisch Calibration	n Orifice No.:	3864	After Sensiti	vity Adjustment	578	
	•		641 m	GD.		
		Laser Dust Monitor	ation of 1 hr T	SP	HVS	
Calibration		Count / Minute	<u>.</u>	Mass	s concentration (µ	(g/m^3)
Point	Total Count	X-axis	•	IVI dist	Y-axis	(g/ III)
1	4000	74.0			143.0	
2	3600	64.0			121.0	
3	3000	54.0			101.0	
Aver	age	64.0			121.7	
By Linear Regr Slope , mw =			Inter	ccept, bw =	-12.7333	3
Correla	ation coefficien	t* = 0.99	996			
Set Correlation I SCF = [K=Higl		pler / Dust Meter, (μ g/m3)]	1	1.9		
The Dust Monito (CF) between the	or was compared e Dust Monitor a	the instruction manual: d with a calibrated High Volument High Volume Sampler. ed by HOKLAS laboratory	•		d to generate the	Correlation Factor
Calibrated by:	cal Officer (Wor	ng Shing Kwai)		Approved by:	Project Manager	(Henry Leung)



Certificate of Calibration

Description:	Digital Dust I	ndicator		Date o	f Calibration	30-Jan-25
Manufacturer:	Sibata Scienti	fic Technology LTD.	<u>_</u>	Validity of Calibra	tion Record	1-Apr-25
Model No.:	LD-5R					
Serial No.:	8Y2374					
Equipment No.:	SA-01-04		Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.:	A-01-03	Before Sensiti	vity Adjustment	652	
Tisch Calibration	orifice No.:	3864	After Sensitivi	ty Adjustment	652	
		Cal	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor			HVS	
Point	M	ass Concentration (μg/1 X-axis	m3)	Mass concentration (μg/m ³) Y-axis		
1		75.0			136.0	
2		63.0			118.0	
3		53.0			101.0	
Average		63.7			118.3	
By Linear Regr Slope , mw = Correlation co	1.58			eept, bw =	17.2363	
		Set	t Correlation F	actor		
Particaulate Con	centration by I	High Volume Sampler ($(\mu g/m^3)$		118.3	
Particaulate Con-	centration by I	Oust Meter (μg/m ³)			63.7	
Measureing time					60.0	
Set Correlation F SCF = [K=HigI		npler / Dust Meter, (με	g/m3)]	1.9		
The Dust Monitor Factor (CF) betw	or was compare veen the Dust N	o the instruction manual of with a calibrated Hig Monitor and High Volunted by HOKLAS labo	gh Volume Samp me Sampler.		vas used to gener	ate the Correlation
Calibrated by: Technica		ng Shing Kwai)	_	Approved by: _ Project	Manager (Henry	/

Digital Dust Indicator



Date of Calibration 30-Jan-25

Certificate of Calibration

Description:

Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibra	ation Record	1-Apr-25
Model No.:	LD-5R				
Serial No.:	8Y2373				
Equipment No.:	SA-01-05	Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensitiv	vity Adjustment	657	
Tisch Calibration	o Orifice No.: 3864	After Sensitivi	ty Adjustment	657	
	Cal	ibration of 1 h	r TSP		
Calibration	Laser Dust Monitor			HVS	
Point	Mass Concentration (μg/r X-axis	m3)	Mass concentration (μ g/m ³) Y-axis		
1	76.0			132.0	
2	64.0			116.0	
3	3 55.0			102.0	
Average	65.0			116.7	
Slope , mw = Correlation co	ession of Y on X 	Interd	rept, bw =	24.1441	
	Set	Correlation F	actor		
Particaulate Cond	centration by High Volume Sampler ($\mu g/m^3$)		116.7	
Particaulate Cond	centration by Dust Meter (μg/m³)		65.0		
Measureing time				60.0	
Set Correlation F SCF = [K=High	Factor , SCF 1 Volume Sampler / Dust Meter, (µg	g/m3)]	1.8		
The Dust Monitor Factor (CF) betw	n-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler. Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)				
Calibrated by:	al Officer (Wong Shing Kwai)	-	Approved by: _ Project	t Manager (Henry	Leung)



Certificate of Calibration

Description:	Digital Dust Indicator		Date of Calibrati	ion 30-Jan-25
Manufacturer:	Sibata Scientific Technology LTD.		Validity of Calibration Reco	ord 1-Apr-25
Model No.:	LD-5R			
Serial No.:	972777			
Equipment No.:	SA-01-06	Sensitivity	0.001 mg/m3	
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensiti	vity Adjustment 645	<u> </u>
Tisch Calibration	n Orifice No.: 3864	After Sensitivi	ty Adjustment 645	<u></u>
	Ca	libration of 1 h	r TSP	
Calibration	Laser Dust Monitor		HV	'S
Point	Mass Concentration (μg/	m3)	Mass concentra	
	X-axis		Y-ax	
1	75.0		133	
2	63.0		117	
3 A varage	52.0 63.3		101 117	
Average	03.3		117	•0
By Linear Regr	ression of Y on X			
_	1.3904	Inter	ept, bw = 2	8.9395
Slope , mw = Correlation co	1.3904		eept, bw =2	8.9395
_	1.3904 pefficient* = 0.9997			8,9395
Correlation co	1.3904 pefficient* = 0.9997	t Correlation F	actor	
Correlation co	1.3904 Defficient* = 0.9997 Se scentration by High Volume Sampler (t Correlation F	actor	.0
Correlation co	1.3904 Defficient* = 0.9997 Separation by High Volume Sampler (accentration by Dust Meter (μg/m³)	t Correlation F	actor 117 63.	3
Particaulate Con Particaulate Con Measureing time	1.3904 Defficient* = 0.9997 Secontration by High Volume Sampler (accentration by Dust Meter (μg/m³) Exp. (min)	t Correlation F	actor	3
Particaulate Con Particaulate Con Measureing time Set Correlation I	1.3904 Defficient* = 0.9997 Secontration by High Volume Sampler (accentration by Dust Meter (μg/m³) Exp. (min)	t Correlation F (μg/m³)	actor 117 63.	3
Particaulate Con Particaulate Con Measureing time Set Correlation I	1.3904 pefficient* = 0.9997 Secontration by High Volume Sampler (accentration by Dust Meter (μg/m³) per (min) Factor , SCF	t Correlation F (μg/m³)	actor 117 63. 60.	3
Particaulate Con Particaulate Con Measureing time Set Correlation I SCF = [K=High	1.3904 pefficient* = 0.9997 Secontration by High Volume Sampler (accentration by Dust Meter (μg/m³) per (min) Factor , SCF	t Correlation F (μg/m³) g/m3)]	actor 117 63. 60.	3
Particaulate Con Particaulate Con Measureing time Set Correlation I SCF = [K=Hig	1.3904 Defficient* = 0.9997 Secontration by High Volume Sampler (μg/m³) Executation by Dust Meter (μg/m³) Exector, SCF The Volume Sampler / Dust Meter, (μg/m²) It in according to the instruction manual for was compared with a calibrated High	t Correlation F (μg/m³) g/m3)] al: gh Volume Sam	actor 117 63. 60.	.0 3 0
Particaulate Con Particaulate Con Measureing time Set Correlation I SCF = [K=High In-house method The Dust Monito Factor (CF) betw	1.3904 pefficient* = 0.9997 Secontration by High Volume Sampler (accentration by Dust Meter (μg/m³) pe, (min) Factor , SCF th Volume Sampler / Dust Meter, (μg/m²) I in according to the instruction manual or was compared with a calibrated High veen the Dust Monitor and High Volume	t Correlation F (μg/m³) g/m3)] al: gh Volume Sampme Sampler.	actor 117 63. 60. 1.8 bler and The result was used to	.0 3 0
Particaulate Con Particaulate Con Measureing time Set Correlation I SCF = [K=High In-house method The Dust Monito Factor (CF) betw	1.3904 Defficient* = 0.9997 Secontration by High Volume Sampler (μg/m³) Executation by Dust Meter (μg/m³) Exector, SCF The Volume Sampler / Dust Meter, (μg/m²) It in according to the instruction manual for was compared with a calibrated High	t Correlation F (μg/m³) g/m3)] al: gh Volume Sampme Sampler.	actor 117 63. 60. 1.8 bler and The result was used to	.0 3 0
Particaulate Con Particaulate Con Measureing time Set Correlation I SCF = [K=High In-house method The Dust Monito Factor (CF) betw	1.3904 pefficient* = 0.9997 Secontration by High Volume Sampler (accentration by Dust Meter (μg/m³) pe, (min) Factor , SCF th Volume Sampler / Dust Meter, (μg/m²) I in according to the instruction manual or was compared with a calibrated High veen the Dust Monitor and High Volume	t Correlation F (μg/m³) g/m3)] al: gh Volume Sampme Sampler.	actor 117 63. 60. 1.8 bler and The result was used to	.0 3 0
Particaulate Con Particaulate Con Measureing time Set Correlation I SCF = [K=High In-house method The Dust Monito Factor (CF) betw	1.3904 Defficient* = 0.9997 Section of the instruction manual or was compared with a calibrated High Volume Sampler (μg/m and the Dust Monitor and High Volume Sampler High Volumers are weighted by HOKLAS laborations.	t Correlation F (μg/m³) g/m3)] al: gh Volume Sampme Sampler.	actor 117 63. 60. 1.8 bler and The result was used to Litimed)	.0 3 0

Digital Dust Indicator



Date of Calibration 30-Jan-25

Certificate of Calibration

Description:

Manufacturer:	Sibata Scient	ific Technology LTD.	_	Validity of Calibr	ation Record	1-Apr-25
Model No.:	LD-5R					
Serial No.:	972778					
Equipment No.:	SA-01-07		Sensitivity	0.001 mg/m3	_	
High Volume Sa	mpler No.:	A-01-03	Before Sensitiv	vity Adjustment	735 CPM	
Tisch Calibration	orifice No.:	3864	After Sensitivi	ty Adjustment	735 CPM	
		Cal	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor			HVS	
Point	M	Iass Concentration (μg/1	m3)	Mas	ss concentration ($\mu g/m^3$)
		X-axis			Y-axis	
1		77.0			141.0	
3		67.0 56.0			120.0 100.0	
Average		66.7			120.3	
Slope , mw = Correlation co	1.95 pefficient* =	0.9991	Interc	ept, bw =	-9.6767	<u>'</u>
		Set	t Correlation F	actor		
Particaulate Con	centration by I	High Volume Sampler ($\mu g/m^3$)		120.3	
Particaulate Con	centration by I	Oust Meter (μg/m ³)		66.7		
Measureing time	, (min)				60.0	
Set Correlation F SCF = [K=Higl		npler / Dust Meter, (με	g/m3)]	1.8		
In-house method	in according t	to the instruction manua	վ:			
Factor (CF) betw	een the Dust I	ed with a calibrated Hig Monitor and High Volu Ited by HOKLAS labo	me Sampler.		was used to gene	rate the Correlation
Calibrated by:		M.	_	Approved by:	\-len	y day
Technica	al Officer (Wo	ng Shing Kwai)		Projec	et Manager (Henr	y Leung)



Certificate of Calibration

Description:	Digital Dust Indicator		Date	of Calibration	30-Jan-25
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ration Record	1-Apr-25
Model No.:	LD-5R				
Serial No.:	972780				
Equipment No.:	SA-01-09	Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensiti	vity Adjustment	739 CPM	
Tisch Calibration	n Orifice No.: 3864	After Sensitivi	ty Adjustment	739 CPM	
	Cai	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor			HVS	
Point	Mass Concentration (μg/: X-axis	m3)	Mas	ss concentration (µ Y-axis	g/m ³)
1	73.0			139.0	
2	63.0			117.0	
3	55.0			101.0	
Average	63.7			119.0	
Slope , mw = Correlation co	2.1148 efficient* = 0.9996		cept, bw =	-15.6393	
	Se	t Correlation F	actor		
Particaulate Con	Se centration by High Volume Sampler (_	actor	119.0	
Particaulate Con	centration by High Volume Sampler (centration by Dust Meter (μg/m³)	_	actor	63.7	
Particaulate Con Measureing time	centration by High Volume Sampler (centration by Dust Meter (μg/m³), (min)	_	actor		
Particaulate Con Measureing time Set Correlation F	centration by High Volume Sampler (centration by Dust Meter (µg/m³), (min) Factor, SCF	(μg/m³)		63.7	
Particaulate Con Measureing time Set Correlation F	centration by High Volume Sampler (centration by Dust Meter (μg/m³), (min)	(μg/m³)	actor	63.7	
Particaulate Con Measureing time Set Correlation F SCF = [K=High	centration by High Volume Sampler (centration by Dust Meter (µg/m³), (min) Factor, SCF	g/m ³)		63.7	
Particaulate Con Measureing time Set Correlation F SCF = [K=High In-house method The Dust Monito	centration by High Volume Sampler (centration by Dust Meter (µg/m³), (min) Factor, SCF Nolume Sampler / Dust Meter, (µg in according to the instruction manual or was compared with a calibrated High	g/m³) g/m³)] al: gh Volume Sam	1.9	63.7	ate the Correlation
Particaulate Con Measureing time Set Correlation F SCF = [K=High In-house method The Dust Monito Factor (CF) betw	centration by High Volume Sampler (centration by Dust Meter (µg/m³), (min) Factor, SCF Nolume Sampler / Dust Meter, (µg/m²) in according to the instruction manual or was compared with a calibrated High Volume Part of the Dust Monitor and High Volume Part of the Compared With a calibrated High Volume Part of the Post Monitor and High Volume Part of the Compared With a calibrated High Volume Part of the Compared With a calibrated High Volume Part of the Compared With a calibrated High Volume Part of the Compared With a calibrated High Volume Part of the Compared With a calibrated High Volume Part of the Compared With a calibrated High Volume Part of the Compared With a calibrated High Volume Part of the Compared With a calibrated High Volume Part of the Compared With Part of the Compare	g/m3)] al: gh Volume Sampler.	1.9 pler and The result	63.7	ate the Correlation
Particaulate Con Measureing time Set Correlation F SCF = [K=High In-house method The Dust Monito Factor (CF) betw	centration by High Volume Sampler (centration by Dust Meter (µg/m³), (min) Factor, SCF Nolume Sampler / Dust Meter, (µg in according to the instruction manual or was compared with a calibrated High	g/m3)] al: gh Volume Sampler.	1.9 pler and The result	63.7	ate the Correlation
Particaulate Con Measureing time Set Correlation F SCF = [K=High In-house method The Dust Monito Factor (CF) betw Those filter pap	centration by High Volume Sampler (centration by Dust Meter (µg/m³), (min) Factor, SCF Nolume Sampler / Dust Meter, (µg in according to the instruction manual or was compared with a calibrated High veen the Dust Monitor and High Volumers are weighted by HOKLAS laboration.	g/m3)] al: gh Volume Sampler.	1.9 pler and The result Litimed)	63.7 60.0	
Particaulate Con Measureing time Set Correlation F SCF = [K=High In-house method The Dust Monito Factor (CF) betw Those filter pap Calibrated by:	centration by High Volume Sampler (centration by Dust Meter (µg/m³), (min) Factor, SCF Nolume Sampler / Dust Meter, (µg in according to the instruction manual or was compared with a calibrated High veen the Dust Monitor and High Volumers are weighted by HOKLAS laboration.	g/m3)] al: gh Volume Sampler.	1.9 bler and The result Litimed) Approved by:	63.7 60.0 was used to gener	y Xvy

Digital Dust Indicator



Date of Calibration 30-Jan-25

Certificate of Calibration

Description:

Manufacturer:	Sibata Scient	ific Technology LTD.	_	Validity of Calibration	ration Record	1-Apr-25
Model No.:	LD-5R					
Serial No.:	972781					
Equipment No.:	SA-01-10		Sensitivity	0.001 mg/m3	_	
High Volume Sa	mpler No.:	A-01-03	Before Sensiti	vity Adjustment	734 CPM	
Tisch Calibration	n Orifice No.:	3864	After Sensitiv	ity Adjustment	734 CPM	
		Ca	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor	r		HVS	
Point	N	Mass Concentration (μg/	/m3)	Mas	ss concentration (µ	g/m^3)
		X-axis			Y-axis	
1		79.0			135.0	
3		67.0			114.0	
Average		68.7			116.3	
Slope , mw = Correlation co	1.83 pefficient* =	0.9994		cept, bw =	-9.4729	
		Se	et Correlation F	actor		
	-	High Volume Sampler	$(\mu g/m^3)$		116.3	
		Dust Meter (μg/m ³)		68.7		
Measureing time					60.0	
Set Correlation I SCF = [K=High		nnlar / Dust Matar (u	σ/m3) l	1.7		
	n volume San	iipiei / Dust Meter, (µ	g/ <i>)</i>]	1.7		
In-house method		to the instruction manua				
The Dust Monitor Factor (CF) betw	in according to was comparted the Dust 1		al: gh Volume Sam ıme Sampler.	pler and The result	was used to gener	rate the Correlation
The Dust Monitor Factor (CF) betw Those filter pap Calibrated by:	I in according to was compar ween the Dust I pers are weigh	to the instruction manueled with a calibrated High	al: gh Volume Sam ıme Sampler.	pler and The result Litimed) Approved by:	1 0	y don

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00736 Issue Date : 28 Jun 2024

Application No. : HP00592

Certificate of Calibration

Applicant : Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street,

Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Sound Level Calibrator.

Equipment No.: : N-16-01

Manufacturer: : Hangzhou Aihua Instruments Co., Ltd.

Other information : Model No. AWA6021A

Serial No. 1023253

Date Received : 27 Jun 2024

Test Period : 28 Jun 2024 to 28 Jun 2024

Test Requested : Performance checking for Sound Level Calibrator

Test Method : The Sound Level Meter and Calibrator has been calibrated in accordance with

the documented procedures and using standard and instrument which are

recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius

Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00736 | Issue Date : 28 Jun 2024

Application No. : HP00592

Certificate of Calibration

Measuring equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Description	Sound Meter
Manufacturer	BSWA Technology
Model No.	BSWA 308
Serial No.	570183
Microphone No.	570605
Equipment No.	N-12-01

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+ 0.1	± 0.3
114.0	114.1	+ 0.1	± 0.5

Note

- : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
 - 2. The indication value was obtained from the average of ten replicated measurement.

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NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 01015 Issue Date : 04 Feb 2025

Application No. : HP00868

Certificate of Calibration

Applicant : Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street,

Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Sound Level Calibrator.

Equipment No.: : N-16-02

Manufacturer: : Hangzhou Aihua Instruments Co., Ltd.

Other information : Model No. AWA6021A

Serial No. 1023064

Date Received : 28 Jan 2025

Test Period : 03 Feb 2025 to 04 Feb 2025

Test Requested : Performance checking for Sound Level Calibrator

Test Method : The Sound Level Meter and Calibrator has been calibrated in accordance with

the documented procedures and using standard and instrument which are

recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius

Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 01015 Issue Date : 04 Feb 2025

Application No. : HP00868

Certificate of Calibration

Measuring equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Description	Sound Meter
Manufacturer	SVANTEK
Model No.	SVAN 977
Serial No.	92677
Microphone No.	10352
Equipment No.	N-14-01

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.2	+ 0.2	± 0.3
114.0	114.3	+ 0.3	± 0.5

Note

- : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
 - 2. The indication value was obtained from the average of ten replicated measurement.

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Application No. : HP00816

Certificate of Calibration

Applicant : Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street,

Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Integrating Sound Level Meter.

Equipment No.: : N-08-07

Manufacturer: : SVANTEK

Other information :

Model No.	SVAN 957
Serial No.	21455
Microphone No.	17204

Date Received : 18 Dec 2024

Test Period : 20 Dec 2024 to 20 Dec 2024

Test Requested : Performance checking for Sound Level Meter

Test Method : The Sound Level Calibrator has been calibrated in accordance with the

documented procedures and using standard and instrument which are

recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius

Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark: 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00962 | Issue Date : 23 Dec 2024

Application No. : HP00816

Certificate of Calibration

Measuring equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+ 0.1	± 1.5
114.0	114.2	+ 0.2	± 1.5

Note

- : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
 - 2. The indication value was obtained from the average of ten replicated measurement.

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NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Application No. : HP00514

Certificate of Calibration

Applicant : Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street,

Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Integrating Sound Level Meter.

Equipment No.: : N-12-01

Manufacturer: : BSWA Technology

Other information :

Model No.	BSWA 308
Serial No.	570183
Microphone No.	590073

Date Received : 09 Apr 2024

Test Period : 09 Apr 2024 to 09 Apr 2024

Test Requested : Performance checking for Sound Level Meter

Test Method : The Sound Level Calibrator has been calibrated in accordance with the

documented procedures and using standard and instrument which are

recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius

Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark: 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00647 Issue Date : 11 Apr 2024

Application No. : HP00514

Certificate of Calibration

Measuring equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+ 0.1	± 1.5
114.0	114.2	+ 0.2	± 1.5

Note

- : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
 - 2. The indication value was obtained from the average of ten replicated measurement.

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00648 | Issue Date : 11 Apr 2024

Application No. : HP00515

Certificate of Calibration

Applicant : Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street,

Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Integrating Sound Level Meter.

Equipment No.: : N-12-05

Manufacturer: : BSWA Technology

Other information :

Model No.	BSWA 308
Serial No.	580287
Microphone No.	570610

Date Received : 09 Apr 2024

Test Period : 09 Apr 2024 to 09 Apr 2024

Test Requested : Performance checking for Sound Level Meter

Test Method : The Sound Level Calibrator has been calibrated in accordance with the

documented procedures and using standard and instrument which are

recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius

Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark: 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00648 | Issue Date : 11 Apr 2024

Application No. : HP00515

Certificate of Calibration

Measuring equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Test Result :

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+ 0.1	± 1.5
114.0	114.1	+ 0.1	± 1.5

Note

- : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
 - 2. The indication value was obtained from the average of ten replicated measurement.

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00618 Issue Date : 18 Mar 2024

Application No. : HP00473

Certificate of Calibration

Applicant : Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street,

Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Integrating Sound Level Meter.

Equipment No.: : N-12-06

Manufacturer: : BSWA Technology

Other information :

Model No.	BSWA 308
Serial No.	580156
Microphone No.	580804

Date Received : 06 Mar 2024

Test Period : 14 Mar 2024 to 14 Mar 2024

Test Requested : Performance checking for Sound Level Meter

Test Method : The Sound Level Calibrator has been calibrated in accordance with the

documented procedures and using standard and instrument which are

recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius

Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark: 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

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Report No. : 00618 | Issue Date : 18 Mar 2024

Application No. : HP00473

Certificate of Calibration

Measuring equipment

Description	Sound Calibrator	
Manufacturer	Brüel & Kjær	
Model No.	TYPE 4231	
Serial No.	2326353	
Equipment No.	N-02-01	

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.0	± 0.0	± 1.5
114.0	114.1	+ 0.1	± 1.5

Note

- : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
 - 2. The indication value was obtained from the average of ten replicated measurement.