

Certificate of Calibration - Wind Monitoring Station

Description: Yau Lai Estate, Bik Lai House

Manufacturer: <u>Davis Instruments</u>

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

Serial No.: MC01010A44

Equipment No.: <u>SA-03-04</u>

Date of Calibration <u>18-Feb-2024</u>

Next Due Date <u>18-Aug-2024</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	1.7	-0.2		
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 15, 2025

Certificate of Calibration

Calibration Certification Information

Cal. Date: January 15, 2024

Rootsmeter S/N: 438320

Ta: 294

°K

Operator: Jim Tisch

Pa: 755.4

mm Hg

Calibration Model #: TE-5025A

Calibrator S/N: 3864

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4380	3.3	2.00
2	3	4	1	1.0270	6.4	4.00
3	5	6	1	0.9180	8.0	5.00
4	7	8	1	0.8750	8.9	5.50
5	9	10	1	0.7230	12.9	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)						
1.0031	0.6975	1.4195	0.9956	0.6924	0.8823						
0.9989	0.9727	2.0075	0.9915	0.9655	1.2477						
0.9968	1.0858	2.2444	0.9894	1.0778	1.3950						
0.9956	1.1378	2.3539	0.9882	1.1294	1.4631						
0.9903	1.3697	2.8390	0.9829	1.3595	1.7645						
	m=	2.11196		m=	1.32248						
QSTD	b=	-0.05043	QA	b=	-0.03134						
	r=	0.99998	4 .	r=	0.99998						

	Calculations								
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)						
Qstd=	Vstd/∆Time	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=	$1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$						

Standard Conditions								
Tstd:	298.15 °K							
Pstd:	760 mm Hg							
	Key							
ΔH: calibrator manometer reading (in H2O)								
ΔP: rootsme	ter manometer reading (mm Hg)							
	solute temperature (°K)							
Pa: actual ba	rometric pressure (mm Hg)							
b: intercept								
m: slope	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

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

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High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA16034/05/0047

Project No.	AM1 - Tin Hau	Temple					
Date:	14-A	14-Apr-24 Next		Date: 14-Jun-24		Operator: SK	SK
Equipment No.:	A-0	1-05	Model No.:	GS	S2310	Serial No.	10599
			Ambient C	ondition			
Temperatur	re. Ta (K)	300.7	Pressure, Pa			759.1	
	, ()		1	(8)	ı	70,712	
		Or	ifice Transfer Star	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05976	Intercept		-0.05018
Last Calibra	ation Date:	15-Jan-24			$c = [\Delta H \times (Pa/760]]$		
Next Calibra	ation Date:	14-Jan-25		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \ \mathbf{x}] \}$	(Pa/760) x (298/7	Γa)] ^{1/2} -bc} / mc	:
	l		Calibration of 7	TSP Sampler	T		
Calibration	+ T (10")	Oı	rfice			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	13.1		3.60	61.10	8.9	2	.97
2	10.4		3.21	54.53	6.6	2	.56
3	7.5		2.72	46.43	4.6	2	.13
4	5.3		2.29	39.17	3.0	1	.72
5	3.0		1.72	29.68	1.8	1	.33
By Linear Regr Slope , mw =	ression of Y on X	K	,	Intercent hw -	-0.266	. (0	
	coefficient* =	_	.9973	mtercept, bw	-0.200		
	Coefficient < 0.99			•			
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration C	Curve, take Qstd					
	sion Equation, th						
	•			(D. (E.(1)) (A)	20/m \1/2		
		mw x ($\mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)]""		
Therefore, Se	et Point; W = (m	uw x Qstd + bw)	² x (760 / Pa) x (7	Γa / 298) =	3.95		
Remarks:							
					1		
Conducted by:	Wong Sh	ning Kwai	Signature:		<u> </u>	Date:	14-Apr-24
Checked by:	Henry	Leung	Signature:	\-lem	y Xvy	Date:	14-Apr-24

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA16034/05/0048

Project No.	AM1 - Tin Hau	Temple					
Date:	14-J	un-24	Next Due Date:	14	Aug-24	Operator:	SK
Equipment No.:	A-0	1-05	Model No.:	GS	S2310	Serial No.	10599
			Ambient C	ondition			
Temperatur	re, Ta (K)	302.7	Pressure, Pa			753.1	
	, , , ,			<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>			
		Or	ifice Transfer Star	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05976	Intercept		-0.05018
Last Calibra	ntion Date:	15-Jan-24			$c = [\Delta H \times (Pa/760)]$		
Next Calibra	ation Date:	14-Jan-25		$Qstd = \{ [\Delta H \ x] $	(Pa/760) x (298/7	Γa)] ^{1/2} -bc} / mo	:
			Calibration of T	TSP Sampler			
Calibration	ΔH (orifice),		fice	Oatd (CEM)	VATA (TANG)	HVS	0) - (200 /FL)1 ^{1/2}
Point	in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	Δ W (HVS), in. of water		0) x (298/Ta)] ^{1/2} -axis
1	13.3		3.60	61.11	8.8		2.93
2	10.5		3.20	54.40	6.5	2	2.52
3	7.6		2.72	46.40	4.5	2	2.10
4	5.4		2.30	39.25	2.9	1	.68
5	3.2		1.77	30.41	1.7	1.29	
By Linear Regressions, mw = Correlation	0.0537 coefficient* =	0	.9986 calibrate.		-0.383	9	
			Set Point Ca	lculation			
From the Regress	sion Equation, th				98/Ta)] ^{1/2}		
Remarks:							
Conducted by:	Wong Sh	ning Kwai	Signature:	K	X on a	Date:	14-Jun-24
Checked by:	Henry	Leung	Signature:	\-lem	J Xon	Date:	14-Jun-24

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET



File No. MA16034/08/0047

Project No.	AM2 - Sai Tso	Wan Recreation	Ground				
Date:	14-Apr-24		Next Due Date:	14-	Jun-24	Operator:	SK
Equipment No.:	A-0	01-08	Model No.:	G:	S2310	Serial No.	1287
			Ambient C	ondition			
Temperatur	re, Ta (K)	300.7	Pressure, Pa			759.1	
~			ifice Transfer Star			_	0.07010
Serial		3864	Slope, mc	0.05976	Intercept		-0.05018
Last Calibra	The state of the s	15-Jan-24			$c = [\Delta H \times (Pa/760)]$ $(Pa/760) \times (298/7)$		
Next Calibra	ation Date:	14-Jan-25		$QSIU = \{[\Delta \Pi X]\}$	(Fa/700) X (290/	1a)j -bc}/II	ic
		•	Calibration of 7	TSP Sampler			
C 12 - 2		Or	fice			HVS	
Calibration Point	ΔH (orifice), in. of water		50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/7	60) x (298/Ta)] ^{1/2} /-axis
1	13.2		3.61	61.33	8.7		2.93
2	10.2		3.18	54.01	6.4		2.52
3	7.5		2.72	46.43	4.5		2.11
4	5.2		2.27	38.80	2.9		1.69
5	3.0		1.72	29.68	1.5		1.22
Slope , mw = Correlation	0.0542 coefficient* =		. 9999	Intercept, bw	-0.399	22	
*If Correlation C	Coefficient < 0.9	90, check and rec	alibrate.				
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration (Curve, take Qstd	= 43 CFM				
From the Regress	sion Equation, tl	ne "Y" value acco	ording to				
		mw v C	$\mathbf{pstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) v /20	08/Ta)1 ^{1/2}		
		mw x Ç	_ζ οια ⊤ υw – [Δ W X	(1 a/ / UU) X (2)	vo: 1 a) j		
Therefore, Se	et Point; W = (n	nw x Qstd + bw)	² x (760 / Pa) x (7	$\Gamma a / 298) =$	3.76		
Remarks:							
				h	ما		
Conducted by:	Wong Sl	ning Kwai	Signature:		<u> </u>	Date:	14-Apr-24
				\ 0	^/		
Checked by:	Henry	Leung	Signature:	- tem	y Way	Date:	14-Apr-24

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA16034/08/0048

Project No.	AM2 - Sai Tso Wan Recreation Ground						
Date:	14-Jun-24		Next Due Date:	14-2	Aug-24	Operator:	SK
Equipment No.:	A-(01-08	Model No.:	GS	\$2310	Serial No.	1287
			Ambient C	Condition			
Temperatur	re, Ta (K)	302.7	Pressure, Pa	(mmHg)		753.1	
			ifice Transfer Star		I		0.07010
Serial		3864	Slope, mc	0.05976	Intercept $c = [\Delta H \times (Pa/760)]$		-0.05018
Last Calibra		15-Jan-24			$C = [\Delta H \times (Pa)/100]$ $(Pa/760) \times (298/100)$		
Next Calibra	ation Date:	14-Jan-25	<u> </u>	Qsia = { [Δ H x	(Fa/700) X (298/)	[a)] -DC}/II	iic
		•	Calibration of	TSP Sampler			
		Or	fice	151 Sampler		HVS	
Calibration Point	ΔH (orifice), in. of water		50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/7	760) x (298/Ta)] ^{1/2} Y-axis
1	13.4		3.62	61.34	8.5		2.88
2	10.3		3.17	53.88	6.3		2.48
3	7.6		2.72	46.40	4.4		2.07
4	5.3		2.27	38.89	2.8		1.65
5	3.0		1.71	29.47	1.5		1.21
Slope, mw = Correlation C *If Correlation C	0.0528 coefficient* =		.9995	Intercept, bw =	-0.371	4	
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration	Curve, take Qstd					
From the Regress							
		mw x Q	$0\mathbf{s}\mathbf{t}\mathbf{d} + \mathbf{b}\mathbf{w} = [\mathbf{\Delta}\mathbf{W} \ \mathbf{x}]$	x (Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore, Se	et Point; W = (r	mw x Qstd + bw)	² x (760 / Pa) x (7	Γa / 298) =	3.70		
Remarks:							
•				h	a l		
Conducted by:	Wong S	hing Kwai	Signature:		<u> </u>	Date:	14-Jun-24
Checked by:	Henry	y Leung	Signature:	-lem	y Xon	Date:	14-Jun-24

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA16034/03/0047

Project No.	AM3 - Yau Lai	Estate, Bik Lai I	House						
Date:	14-Apr-24		14-Apr-24		Next Due Date:	14-	Jun-24	Operator:	SK
Equipment No.:	A-0	1-03			S2310		10379		
			•						
			Ambient C	ondition					
Temperatu	re, Ta (K)	300.7	Pressure, Pa	(mmHg)		759.1			
a			ifice Transfer Star				0.05010		
Serial		3864	Slope, mc	0.05976	Intercept		-0.05018		
Last Calibra		15-Jan-24			$c = [\Delta H \times (Pa/760)]$ $(Pa/760) \times (298/760)$				
Next Calibra	ation Date:	14-Jan-25		<u> </u>	(Fa/700) X (290/	1a)j -bc}/1	iic .		
		•	Calibration of T	TSP Sampler					
Calibratian		Or	fice			HVS			
Calibration Point	ΔH (orifice), in. of water		50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/7	760) x (298/Ta)] ^{1/2} Y-axis		
1	12.9		3.57	60.64	8.3		2.87		
2	10.6		3.24	55.04	6.4		2.52		
3	7.8		2.78	47.34	4.6		2.13		
4	5.0		2.22	38.07	3.0		1.72		
5	3.0		1.72	29.68	1.7		1.30		
Slope , mw = Correlation		0	.9987	Intercept, bw	-0.182	29			
			Set Point Ca	alculation					
From the Regres	eld Calibration C sion Equation, th et Point; $W = (m)$	mw x Q			98/Ta)] ^{1/2}				
Remarks: Conducted by:	Wong Sh	ing Kwai	Signature:	\\	X -	Date:	14-Apr-24		
Checked by:	Henry	Leung	Signature:	-lem	y day	Date:	14-Apr-24		

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET



File No. MA16034/03/0048

Project No.	. AM3 - Yau Lai Estate, Bik Lai House						
Date:	14-Jun-24		14-Jun-24 Next Due Date:		14-Aug-24		SK
Equipment No.:	A-0	01-03	Model No.:	GS	S2310	Serial No.	10379
			Ambient C	ondition			
Temperatu	re, Ta (K)	302.7	Pressure, Pa			753.1	
				(8)			
		Or	ifice Transfer Star	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05976	Intercept	t, bc	-0.05018
Last Calibra	ation Date:	15-Jan-24	r	nc x Qstd + bo	$c = [\Delta H \times (Pa/760)]$) x (298/Ta)] ¹	/2
Next Calibra	ation Date:	14-Jan-25	($\mathbf{Qstd} = \{ [\Delta \mathbf{H} \ \mathbf{x}] \}$	(Pa/760) x (298/	Γa)] ^{1/2} -bc} / m	ıc
			Calibration of	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	13.0		3.56	60.43	8.1		2.81
2	10.7		3.23	54.90	6.3		2.48
3	7.7		2.74	46.70	4.5		2.10
4	5.0		2.21	37.80	2.9		1.68
5	2.9		1.68	28.99	1.6		1.25
By Linear Regr Slope, mw = Correlation C	0.0489 coefficient* =	0	.9993	Intercept, bw	-0.172	7	
			Set Point Ca	alculation			
From the TSP Fi From the Regres Therefore, Se	sion Equation, t	he "Y" value acc			98/Ta)] ^{1/2} 3.81		
Remarks: Conducted by:		ning Kwai	Signature:	<u> </u>	X-2-5	Date: _	14-Jun-24
Checked by:	Henry	Leung	Signature:	tem	7 mg	Date:	14-Jun-24

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET



File No. MA20003/55/026 Project No. CKL 2 - Flat 103 Cha Kwo Ling Village 4-May-24 Next Due Date: 4-Jul-24 Operator: SK Date: Model No.: _____ TE 5170 Serial No. ____ 1956 Equipment No.: A-01-55 **Ambient Condition** Temperature, Ta (K) 297 Pressure, Pa (mmHg) 757 **Orifice Transfer Standard Information** 0.05976 Intercept, bc -0.05018 3864 Slope, mc Serial No. mc x Qstd + bc = $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ Last Calibration Date: 15-Jan-24 Qstd = $\{ [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} -bc \} / mc$ Next Calibration Date: 14-Jan-25 **Calibration of TSP Sampler** Orfice HVS Calibration $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ ΔH (orifice), Ostd (CFM) ΔW (HVS), in. Point $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ in. of water X - axis of water Y-axis 13.8 3.71 62.98 9.7 3.11 1 2.77 11.5 3.39 57.57 7.7 52.67 9.6 3.10 6.0 2.45 4 5.8 2.41 41.13 3.0 1.73 2.0 5 3.7 1.92 33.02 1.41 By Linear Regression of Y on X Slope , mw = 0.0578 Intercept, bw : -0.5654 Correlation coefficient* = *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; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 3.70 Remarks: Signature: Date: 4-May-24

Signature: Date: 4-May-24 Conducted by: Wong Shing Kwai Checked by: Henry Leung



Certificate of Calibration

Tt is	certified that t	the item und	ler calibration b	nas heen	calibrated by	corresponding	calibrated High	Volume Sample
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Description:	Laser Dust Mo	nitor		Date o	f Calibration	31-May-24
Manufacturer:	Sibata Scientif	ic Technology LTD.		Validity of Calibra	tion Record	31-Jul-24
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	
		Calib	ration of 1 hr T	SD SD		
		Laser Dust Monitor	lation of 1 m 1	51	HVS	
Calibration Point	T-4-1 C4	Count / Minu	te	Mass	concentration (µ	$\frac{1}{\text{ug/m}^3}$
1 Ollit	Total Count	X-axis			Y-axis	
1	4000	76.0			143.0	
2	3600	66.0			122.0	
3	3000	55.0			102.0	
Aver	rage	65.7			122.3	
By Linear Regr Slope , mw = Correla	1.95	502	Inter 9991	rcept, bw =	-5.7266	
Set Correlation I SCF = [K=Hig		pler / Dust Meter, (μ g/m3))]	1.9		
The Dust Monito (CF) between the	or was compared e Dust Monitor	o the instruction manual: d with a calibrated High Volume 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)

Digital Dust Indicator



31-May-24

Date of Calibration

Certificate of Calibration

Description:

-									
Manufacturer:	Sibata Scient	ific Technology LTD.	_	Validity of Calibr	ration Record	31-Jul-24			
Model No.:	LD-5R								
Serial No.:	8Y2374								
Equipment No.:	SA-01-04		Sensitivity	0.001 mg/m3	·				
High Volume Sa	impler No.:	A-01-03	Before Sensitiv	rity Adjustment	652				
Tisch Calibratio	n Orifice No.:	3864	After Sensitivit	y Adjustment	652				
	Calibration of 1 hr TSP								
Calibration		Laser Dust Monitor	·		HVS				
Point	N.	lass Concentration (µg/	(m3)	Mas	s concentration (ug/m ³)			
		X-axis			Y-axis				
1		77.0			137.0				
2		67.0			120.0				
3		57.0			101.0				
Average		67.0			119.3				
Slope , mw = Correlation co	1.80 pefficient* =	0.9995		ept, bw =	-1,2667				
		Se	t Correlation Fa	actor					
Particaulate Con	centration by l	High Volume Sampler ($(\mu g/m^3)$	119.3					
Particaulate Con	centration by I	Dust Meter (μg/m ³)		67.0					
Measureing time	e, (min)			60.0					
Set Correlation I	Factor, SCF								
SCF = [K=Hig	h Volume San	npler / Dust Meter, (μ	g/m3)]	1.8					
In-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: Technic		ong Shing Kwai)	_	Approved by:	t Manager (Henry	Leung)			



Certificate of Calibration

Description:	Digital Dust Indicator			Date of Calibration 31-May		
Manufacturer:	Sibata Scienti	fic Technology LTD.	<u> </u>	Validity of Calibra	ation Record	31-Jul-24
Model No.:	LD-5R					
Serial No.:	8Y2373					
Equipment No.:	SA-01-05		Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.:	A-01-03	Before Sensiti	vity Adjustment	657	
Tisch Calibration	orifice No.:	3864	After Sensitiv	ty Adjustment	657	
		Ca	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor			HVS	
Point	М	ass Concentration (μg/ X-axis	m3)	Mass	s concentration (µ Y-axis	ıg/m³)
1		76.0			135.0	
2		66.0			115.0	
3		55.0			100.0	
Average		65.7		116.7		
Slope , mw = Correlation co	1.662 pefficient* =	0.9940			7.5529	
- · · · ·			t Correlation F	actor		
		High Volume Sampler (μg/m³)	116.7		
Measureing time		Dust Meter (μg/m ³)		65.7		
Set Correlation F					00.0	
		npler / Dust Meter, (μ	g/m3)]	1.8		
In-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:		ng Shing Kwai)	_	Approved by: _ Project	Manager (Henry	

Digital Dust Indicator



31-May-24

Date of Calibration

Certificate of Calibration

Description:

•						·				
Manufacturer:	Sibata Scient	ific Technology LTD.	_	Validity of Calibr	ation Record	31-Jul-24				
Model No.:	LD-5R									
Serial No.:	972777									
Equipment No.:	SA-01-06		Sensitivity	0.001 mg/m3						
High Volume Sa	mpler No.:	A-01-03	Before Sensitiv	rity Adjustment	645					
Tisch Calibration	n Orifice No.:	3864	After Sensitivit	y Adjustment	645					
	Calibration of 1 hr TSP									
Calibration		Laser Dust Monitor	•		HVS					
Point	M	lass Concentration (µg/	m3)	Mas	s concentration (µ	ug/m ³)				
	X-axis				Y-axis					
1		77.0			138.0					
2		67.0			119.0					
3		58.0		100.0						
Average		67.3			119.0					
Slope , mw = Correlation co		0.9995		ept, bw =	-15.5424	<u> </u>				
		Se	t Correlation Fa	ector						
Particaulate Con	centration by I	High Volume Sampler ($(\mu g/m^3)$	119.0						
Particaulate Con	centration by I	Oust Meter (μg/m ³)		67.3						
Measureing time	, (min)			60.0						
Set Correlation F	Factor, SCF									
SCF = [K=Higl	h Volume San	npler / Dust Meter, (μ	g/m3)]	1.8						
In-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:		ng Shing Kwai)	_	Approved by:	t Manager (Henry	Leung)				

Digital Dust Indicator



Date of Calibration 31-May-24

Certificate of Calibration

Description:

Manufacturer:	anufacturer: Sibata Scientific Technology LTD.			Validity of Calibration Record 31-Jul-24						
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 Sensiti	vity Adjustment	735 CPM					
Tisch Calibration	n Orifice No.:	3864	After Sensitivi	ty Adjustment	735 CPM					
	Calibration of 1 hr TSP									
Calibration		Laser Dust Monitor			HVS					
Point	M	Iass Concentration (μg/	m3)	Mas	ss concentration (µ	ig/m ³)				
1		X-axis			Y-axis					
2		75.0 65.0			140.0 121.0					
3		55.0			99.0					
Average		65.0		120.0						
Slope , mw = Correlation co	2.05 pefficient* =	0.9991		ept, bw =	-13.2500	<u> </u>				
		Se	t Correlation F	actor						
	-	High Volume Sampler ($(\mu g/m^3)$	120.0						
		Dust Meter (μg/m³)		65.0						
Measureing time				60.0						
Set Correlation I SCF = [K=Hig		npler / Dust Meter, (μ	1.8							
In-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:	,	ong Shing Kwai)	_	Approved by:	Ct Manager (Henry	Leung)				

Digital Dust Indicator



Date of Calibration 31-May-24

Certificate of Calibration

Description:

Manufacturer:	Sibata Scienti	ific Technology LTD.	_	Validity of Calibr	ration Record	31-Jul-24			
Model No.:	LD-5R								
Serial No.:	972780								
Equipment No.:	SA-01-09		Sensitivity	0.001 mg/m3	_				
High Volume Sa	mpler No.:	A-01-03	Before Sensiti	vity Adjustment	739 CPM				
Tisch Calibration	n Orifice No.:	3864	After Sensitivi	ty Adjustment	739 CPM				
	Calibration of 1 hr TSP								
Calibration		Laser Dust Monitor			HVS				
Point	M	Iass Concentration (μg/1	m3)	Mas	ss concentration (ug/m ³)			
		X-axis			Y-axis				
1		73.0			140.0				
3		63.0 53.0			120.0 101.0				
Average		63.0		120.3					
Slope , mw = Correlation co	1.95 pefficient* =	0.9999		cept, bw =	-2.5167	_			
Particaulate Con	centration by I	High Volume Sampler (t Correlation F	actor	120.3				
		Oust Meter (µg/m ³)	mg III)	63.0					
Measureing time		(10)		60.0					
Set Correlation I SCF = [K=High		npler / Dust Meter, (με	g/m3)]	1.9					
In-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:		ng Shing Kwai)	_	Approved by:	Lement Manager (Henr				



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C241168

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC24-0305)

Date of Receipt / 收件日期: 21 February 2024

Description / 儀器名稱

Acoustical Calibrator

Manufacturer / 製造商

Brüel & Kjær

Model No. / 型號

4231

Serial No. / 編號

2326353

Supplied By / 委託者

Cinotech Consultants Limited

Room 1710, Technology Park, 18 On Lai Street,

Shatin, N.T. Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 温度 :

 $(23 \pm 2)^{\circ}$ C

Relative Humidity / 相對濕度 :

 $(50 \pm 25)\%$

Line Voltage / 電壓

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

3 March 2024

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results do not exceed specified limits.

These limits refer to manufacturer's published tolerances as requested by the customer.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Hottinger Brüel & Kjær Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies

- Fluke Everett Service Center, USA

Tested By 測試

HT Wong

Assistant Engineer

Certified By 核證

K/C Lee Engineer Date of Issue 簽發日期

Website/網址: www.suncreation.com

4 March 2024

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C241168

證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment:

Equipment ID

CL130 CL281

CL281 TST150A Description

Universal Counter

Multifunction Acoustic Calibrator

Measuring Amplifier

Certificate No.

C233799

CDK2302738 C221750

4. Test procedure: MA100N.

5. Results:

5.1 Sound Level Accuracy

UUT	Measured Value	Mfr's Limit	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	93.90	± 0.2	± 0.20
114 dB, 1 kHz	114.00		

5.2 Frequency Accuracy

requestey recuracy			
UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Limit	(Hz)
1	1 000 0	$1 \text{ kHz} \pm 0.1 \%$	+ 0.1

Remark: The uncertainties are for a confidence probability of not less than 95 %.

Note:

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00396 Issue Date : 02 Aug 2023

Application No. : HP00278

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-13-02

Manufacturer: : SOUNDTEK

Other information : | Model No. | ST-120

Serial No. 181001636

Date Received : 01 Aug 2023

Test Period : 01 Aug 2023 to 01 Aug 2023

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

Lee Wai Kit Laboratory Manager

Page 1 of 2

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00396 | Issue Date : 02 Aug 2023

Application No. : HP00278

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	94.1	+ 0.1	± 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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NT, Hong Kong

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Report No. : 00389 | Issue Date : 20 Jul 2023

Application No. : HP00262

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 : 18 Jul 2023

Test Period : 19 Jul 2023 to 19 Jul 2023

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. : 00389 Issue Date : 20 Jul 2023

Application No. : HP00262

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	94.2	+ 0.2	± 0.3
114.0	114.2	+ 0.2	± 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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Report No. : 00676 Issue Date : 03 May 2024

Application No. : HP00537

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.: : SN-01-01

Manufacturer: : SVANTEK

Other information : | Model No. | SVAN 979

Serial No. 27189
Microphone No. 25202

Date Received : 02 May 2024

Test Period : 02 May 2024 to 02 May 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

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Application No. : HP00537

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.

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Report No. : 00390 | Issue Date : 24 Jul 2023

Application No. : HP00263

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-08-12

Manufacturer: : SVANTEK

Other information :

Model No.	SVAN 957
Serial No.	23851
Microphone No.	22391

Date Received : 18 Jul 2023

Test Period : 20 Jul 2023 to 20 Jul 2023

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

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Report No. : 00390 | Issue Date : 24 Jul 2023

Application No. : HP00263

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	93.9	- 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.

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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

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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.

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NT, Hong Kong

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Report No. : 00430 Issue Date : 08 Sep 2023

Application No. : HP00304

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-12-02

Manufacturer: : BSWA Technology

Other information : Model No

Model No.	BSWA 308
Serial No.	570187
Microphone No.	590079

Date Received : 06 Sep 2023

Test Period : 07 Sep 2023 to 07 Sep 2023

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



Application No. : HP00304

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	94.2	+ 0.2	± 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



Report No. : 00568 | Issue Date : 14 Feb 2024

Application No. : HP00436

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-12-03

Manufacturer: : BSWA Technology

Other information : | N

Model No.	BSWA 308
Serial No.	570188
Microphone No.	570608

Date Received : 05 Feb 2024

Test Period : 07 Feb 2024 to 07 Feb 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. : 00568 | Issue Date : 14 Feb 2024

Application No. : HP00436

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	113.9	- 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. : 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.