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File No. MA16034/05/0046

Project No.	AM1 - Tin Hau	1 Temple					
Date:	14-I	Feb-24	Next Due Date:	14-Apr-24	Operator:	SK	
Equipment No.:	A-0	01-05	Model No.:	GS2310	Serial No.	10599	
							_
			Ambient Condit	ion			
Temperatu	re, Ta (K)	294	Pressure, Pa (mm	Hg)	765.2		
			<u>.</u>	<u>.</u>			

Orifice Transfer Standard Information								
Serial No. 3864 Slope, mc 0.05976 Intercept, bc -0.05018								
Last Calibration Date:	15-Jan-24	1	mc x Qstd + b	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}			
Next Calibration Date: 14-Jan-25 $Qstd = \{[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2} - bc\} / mc$								

Calibration of TSP Sampler								
Calibration		Orfice		HVS				
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis			
1	12.8	3.61	61.32	8.8	3.00			
2	10.1	3.21	54.56	6.5	2.58			
3	7.2	2.71	46.20	4.6	2.17			
4	5.2	2.30	39.39	2.7	1.66			
5	2.8	1.69	29.13	1.3	1.15			
By Linear Regr Slope , mw =	By Linear Regression of Y on X Slope , mw =							
Correlation	coefficient* =	0.9982	_					
*If Correlation C	Coefficient < 0.990), check and recalibrate.						
		Set Point C	alculation					
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM						
From the Regres	sion Equation, the	"Y" value according to						
		$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$	x (Pa/760) x (29	98/Ta)] ^{1/2}				
Therefore, Se	et Point; W = (mv	$x = x + bw^{-1} x (760 / Pa) x (760 / Pa)$	Ta / 298) =	3.65				
Remarks:								
Conducted by:	Wong Shi	ng Kwai Signature:	k	X	Date: 14-Feb-24			
Checked by:	Henry I	Leung Signature:	-lem	J Xm J	Date: 14-Feb-24			



File No. MA16034/08/0046

Project No.	AM2 - Sai Tso	Wan Recreatio	n Ground			
Date:	14-F	eb-24	Next Due Date:	14-Apr-24	Operator:	SK
Equipment No.:	A-0	1-08	Model No.:	GS2310	Serial No.	1287
			Ambient Condition	on		
Temperatu	ure, Ta (K)	294	Pressure, Pa (mmH	g)	765.2	
				T 0 (1		

Orifice Transfer Standard Information						
Serial No.	3864	Slope, mc	0.05976	Intercept, bc	-0.05018	
Last Calibration Date:	15-Jan-24	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$	$]^{1/2}$	
Next Calibration Date: 14-Jan-25 $Qstd = \{[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2} - bc\} / mc$						

		Calibration o	f TSP Sampler		
		Orfice	-		HVS
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis
1	13.0	3.64	61.79	8.6	2.96
2	10.0	3.19	54.30	6.3	2.54
3	7.4	2.75	46.83	4.4	2.12
4	5.0	2.26	38.64	2.8	1.69
5	2.8	1.69	29.13	1.4	1.20
By Linear Regr Slope , mw = Correlation (*If Correlation C	ession of Y on X 0.0540 coefficient* = Coefficient < 0.990	0.9998), check and recalibrate.	Intercept, bw : 	-0.391	9
From the TSP Fi From the Regres Therefore, Se	eld Calibration Cu sion Equation, the et Point; W = (mv	Set Point urve, take Qstd = 43 CFM z "Y" value according to $mw x Qstd + bw = [\Delta W$ $v x Qstd + bw)^2 x (760 / Pa) x$	Calculation 7 x (Pa/760) x (29 (Ta / 298) =	98/Ta)] ^{1/2} 3.65	
Remarks:					
Conducted by: Checked by:	Wong Shi	ng Kwai Signatur Leung Signatur	e: e:le_	N. Janj	Date: 14-Feb-24 Date: 14-Feb-24

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File No. MA16034/03/0046

Project No.	AM3 - Yau Lai	Estate, Bik La	i House			
Date:	14-F	eb-24	Next Due Date:	14-Apr-24	Operator:	SK
Equipment No.:	A-0	1-03	Model No.:	GS2310	Serial No.	10379
			Ambient Condit	ion		
Temperatu	ire, Ta (K)	294	Pressure, Pa (mmH	Hg)	765.2	

Orifice Transfer Standard Information								
Serial No. 3864 Slope, mc 0.05976 Intercept, bc -0.05018								
Last Calibration Date:	15-Jan-24]	mc x Qstd + b	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}			
Next Calibration Date: 14-Jan-25 $Qstd = \{ [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2} - bc \} / mc \}$								

		Calibration of	TSP Sampler			
Calibration		Orfice		HVS		
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis	
1	12.8	3.61	61.32	8.4	2.93	
2	10.5	3.27	55.62	6.4	2.56	
3	7.7	2.80	47.75	4.5	2.14	
4	4.9	2.24	38.26	2.8	1.69	
5	3.0	1.75	30.12	1.6	1.28	
By Linear Regr Slope , mw =	ession of Y on X 0.0520		Intercept, bw :	-0.305	3	
Correlation	coefficient* =	0.9987	-			
*If Correlation C	Coefficient < 0.990), check and recalibrate.				
		Set Point C	alculation			
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM				
From the Regres	sion Equation, the	e "Y" value according to				
Therefore Se	et Point: W = (my	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$	x (Pa/760) x (29) Ta / 298) =	98/Ta)] ^{1/2}		
Therefore, Se	(10)	(xQ5td + 0w) x(700714)x(Iu / 290) -			
Remarks:						
Conducted by:	Wong Shi	ng Kwai Signature:	k	<u>,</u>	Date: 14-Feb-24	
Checked by:	Henry I	Leung Signature:	-lem	J Xm J	Date: 14-Feb-24	

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File No. MA20003/55/024

Project No.	CKL 2 - Flat 103	3 Cha Kwo Lii	ng Village			
Date:	4-Jai	n-24	Next Due Date:	4-Mar-24	Operator:	SK
Equipment No.:	A-0.	1-55	Model No.:	TE 5170	Serial No.	1956
			Ambient Condit	ion		
Temperatu	ure, Ta (K)	290	Pressure, Pa (mml	Hg)	765.7	

Orifice Transfer Standard Information								
Serial No. 3864 Slope, mc 0.05928 Intercept, bc -0.03491								
Last Calibration Date:	16-Jan-23	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$)] ^{1/2}			
Next Calibration Date: 16-Jan-24 $Qstd = \{ [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2} - bc \} / mc$								

Calibration of TSP Sampler							
Calibration		Orfice		HVS			
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis		
1	13.6	3.75	63.89	9.9	3.20		
2	11.3	3.42	58.29	7.9	2.86		
3	9.4	3.12	53.21	6.2	2.53		
4	5.6	2.41	41.21	3.0	1.76		
5	3.5	1.90	32.70	2.0	1.44		
By Linear Regr Slope , mw = Correlation (*If Correlation C	By Linear Regression of Y on X Slope , mw =0.0580 Intercept, bw :0.5302 Correlation coefficient* =0.9963 *If Correlation Coefficient < 0.990, check and recalibrate.						
From the TSP Fi From the Regres	eld Calibration Cu sion Equation, the	Set Point C urve, take Qstd = 43 CFM e "Y" value according to	alculation				
Therefore, Se	et Point; W = (mv	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ $\mathbf{w} \mathbf{x} \mathbf{Qstd} + \mathbf{bw})^{2} \mathbf{x} (760 / Pa) $	x (Pa/760) x (29 Ta / 298) =	98/Ta)] ^{1/2} 			
Remarks:							
Conducted by:	Wong Shi	ng Kwai Signature:	X	<u>h</u> .	Date: 4-Jan-24		
Checked by:	Henry I	Leung Signature:	lem	1 drag	Date: 4-Jan-24		



File No. MA20003/55/025

Project No.	CKL 2 - Flat 1	03 Cha Kwo Lir	ig Village			
Date:	4-N	/lar-24	Next Due Date:	4-May-24	Operator:	SK
Equipment No.:	A-	01-55	Model No.:	TE 5170	Serial No.	1956
			Ambient Condit	ion		
Temperatu	ıre, Ta (K)	292.7	Pressure, Pa (mml	Hg)	759.3	

Orifice Transfer Standard Information						
Serial No.	3864	Slope, mc	0.05976	Intercept, bc	-0.05018	
Last Calibration Date:	15-Jan-24	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$				
Next Calibration Date:	14-Jan-25	Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc				

Calibration of TSP Sampler					
Calibration		Orfice			HVS
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis
1	13.7	3.73	63.31	9.8	3.16
2	11.4	3.41	57.82	7.8	2.82
3	9.5	3.11	52.86	6.1	2.49
4	5.7	2.41	41.13	3.1	1.78
5	3.6	1.91	32.86	2.0	1.43
By Linear Regression of Y on X Slope , mw =0.0577 Intercept, bw :0.5305 Correlation coefficient* =0.9975 *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 Quark to the provide the providet the prov					
Therefore, Se	Therefore, Set Point; W = $(mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = 3.75$				
Remarks:					
Conducted by:	Wong Shi	ng Kwai Signature:	X	h.	Date: 4-Mar-24
Checked by:	Henry I	Leung Signature:	-lem	g Xog	Date: 4-Mar-24



Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator		Date	of Calibration	30-Jan-24	
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Caliba	ration Record	30-Mar-24	
Model No.:	LD-5R					
Serial No.:	8Y2374					
Equipment No.:	SA-01-04	Sensitivity	0.001 mg/m3	-		
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensitiv	vity Adjustment	652		
Tisch Calibratio	n Orifice No.: <u>3864</u>	After Sensitivit	ty Adjustment	652		
	Calibration of 1 hr TSP					
Calibration	Laser Dust Monito	r		HVS		
Point	Mass Concentration (µg/m3) X-axis		Mass concentration (μg/m ³) Y-axis			
1	75.0		137.0			
2	67.0			124.0		
3	55.0			102.0		
Average	65.7		121.0			
By Linear Regr Slope , mw = Correlation co	ression of Y on X 	Interc 5	ept, bw =	5.6513		
	Se	et Correlation Fa	actor			
Particaulate Con	centration by High Volume Sampler	$(\mu g/m^3)$	121.0			
Particaulate Cor	centration by Dust Meter ($\mu g/m^3$)		65.7			
Measureing time	e, (min)			60.0		
Set Correlation I	Factor, SCF					
SCF = [K=Hig	h Volume Sampler / 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:

L

len dag Approved by: Project Manager (Henry Leung)

Technical Officer (Wong Shing Kwai)



Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator		Date	of Calibration	30-Jan-24
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibi	ration Record	30-Mar-24
Model No.:	LD-5R				
Serial No.:	8Y2373				
Equipment No.:	SA-01-05	Sensitivity	0.001 mg/m3	_	
High Volume Sa	ampler No.: A-01-03	Before Sensitiv	ity Adjustment	657	
Tisch Calibratio	on Orifice No.: <u>3864</u>	After Sensitivit	y Adjustment	657	
Calibration of 1 hr TSP					
Calibration	Laser Dust Monitor	r		HVS	
Point	Mass Concentration (μg/m3) X-axis		Mass concentration (μ g/m ³) Y-axis		
1	75.0		137.0		
2	65.0			118.0	
3	55.0		100.0		
Average	65.0		118.3		
By Linear Reg Slope , mw = Correlation c	ression of Y on X 	Interce	ept, bw =	-1.9167	
	Se	et Correlation Fa	ictor		
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)			118.3		
Particaulate Cor	centration by Dust Meter ($\mu g/m^3$)		65.0		
Measureing time	e, (min)			60.0	
Set Correlation	Factor, SCF				
SCF = [K=High Volume Sampler / Dust Meter, (μg/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:

Approved by: len thay

Technical Officer (Wong Shing Kwai)

Project Manager (Henry Leung)



Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator		Date	of Calibration	30-Jan-24
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibi	ration Record	30-Mar-24
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	
Tisch Calibratio	on Orifice No.: 3864	After Sensitivi	ty Adjustment	645	
Calibration of 1 hr TSP					
Calibration	Laser Dust Monitor	r		HVS	
Point	Mass Concentration (µg/m3) X-axis		Mass concentration (µg/m ³) Y-axis		
1	76.0		140.0		
2	66.0			121.0	
3	55.0			101.0	
Average	65.7		120.7		
By Linear Reg	ression of Y on X				
Slope, mw =	1.8565	Intero	cept, bw =	-1.2432	
Correlation c	oefficient* = 0.9999)			
	C.	t Comolotion E			
D. diamlata Car		$\frac{1}{(1-1)^3}$	actor	120.7	
Particaulate Con	icentration by High volume Sampler ((µg/m)	120.7		
Particaulate Cor	icentration by Dust Meter (µg/m)		65.7		
Measureing time				60.0	
Set Correlation I	Factor, SUF	-/	10		
SCF = [K=Hig]	h volume Sampler / Dust Meter, (μ	g/mɔ) j	1.0	,	

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:

Approved by: Project Manager (Henry Leung)

Technical Officer (Wong Shing Kwai)



Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator		Date	of Calibration	30-Jan-24
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ation Record	30-Mar-24
Model No.:	LD-5R				
Serial No.:	972778				
Equipment No.:	SA-01-07	Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensitiv	vity Adjustment	735 CPM	
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	735 CPM	
	Cal	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor			HVS	
Point	Mass Concentration (µg/m3) X-axis		Mass concentration (μg/m ³) Y-axis		
1	73.0			140.0	
2	63.0		122.0		
3	53.0		101.0		
Average	63.0		121.0		
By Linear Regression of Y on X Slope , mw = <u>1.9500</u> Int Correlation coefficient* = <u>0.9990</u>		Interc	cept, bw =	-1.8500	
	Se	t Correlation F	actor		
Particaulate Con	centration by High Volume Sampler ($\mu g/m^3$)	121.0		
Particaulate Con	centration by Dust Meter ($\mu g/m^3$)		63.0		
Measureing time	e, (min)		60.0		

Set Correlation Factor, SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]

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:

Approved by: len they Project Manager (Henry Leung)

Technical Officer (Wong Shing Kwai)

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Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator		Date	of Calibration	30-Jan-24
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ation Record	30-Mar-24
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 Sensitiv	vity Adjustment	739 CPM	
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	739 CPM	
Calibration of 1 hr TSP					
Calibration	Laser Dust Monitor			HVS	
Point	Mass Concentration (µg/1 X-axis	m3)	Mass concentration (µg/m		(g/m^3)
1	75.0			141 0	
2	65.0			121.0	
3	54.0		100.0		
Average	64.7		120.7		
By Linear Regr Slope , mw = Correlation co	ression of Y on X 	Interc	cept, bw =	-5.5408	
	Set	t Correlation F	actor		
Particaulate Con	centration by High Volume Sampler ($\mu g/m^3$)	120.7		
Particaulate Con	centration by Dust Meter ($\mu g/m^3$)		64.7		
Measureing time	2, (min)		60.0		

Set Correlation Factor, SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]

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:

Technical Officer (Wong Shing Kwai)

Approved by: Project Manager (Henry Leung

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Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator		Date of Calibration	30-Jan-24	
Manufacturer:	Sibata Scientific Technology LTD.	Validity of	Calibration Record	30-Mar-24	
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 Sensitivity Adjustm	ent 734 CPM		
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivity Adjustmer	t 734 CPM		
	Ca	libration of 1 hr TSP			
Calibration	Laser Dust Monitor		HVS		
Point	Mass Concentration (µg/	m3)	Mass concentration (µg/m ³) Y-axis		
1	82.0		134.0		
2	72.0		116.0		
3	62.0		100.0		
Average	72.0		116.7		
By Linear Regr Slope , mw = Correlation co	ression of Y on X 	Intercept, bw =	-5.7333	·	
	Se	t Correlation Factor			
Particaulate Con	centration by High Volume Sampler ($(\mu g/m^3)$	116.7		
Particaulate Con	centration by Dust Meter ($\mu g/m^3$)		72.0		
Measureing time	e, (min)		60.0		
Set Correlation I	Factor . SCF				

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]

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:

Approved by: leng thay Project Manager (Henry Leung)

Technical Officer (Wong Shing Kwai)

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Tisch Environmental, Inc. 145 South Miami Avenue

Village of Cleves, OH 45002

www.tisch-env.com TOLL FREE: (877)263-7610 FAX: (513)467-9009

CIN@TECH 🤳

Certificate of Calibration - Wind Monitoring Station

Yau Lai Estate, Bik Lai House
Davis Instruments
Davis7440
MC01010A44
<u>SA-03-04</u>
<u>18-Feb-2024</u>
<u>18-Aug-2024</u>

1. Performance check of Wind Speed

Wind Sp	beed, 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)	$\mathbf{D} = \mathbf{W}1 - \mathbf{W}2$
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

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Issue Date : 02 May 2023

Report No.:00370Application No.:HP00242

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 2023
Test Period	:	02 May 2023 to 02 May 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

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

:

:



Issue Date : 02 May 2023

Report No.:00370Application No.:HP00242

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	114.0	± 0.0	± 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. : 00430 Issue Date : 08 Sep 2023 : HP00304 Application No. **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. **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.

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

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

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Issue Date : 08 Sep 2023

Report No.:00430Application 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.

Report No.

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: 00361



Issue Date : 30 Mar 2023

: HP00236 Application No. **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-12-04 Manufacturer: : BSWA Technology Other information : Model No. **BSWA 308** Serial No. 580238 Microphone No. 570605 Data Bacaivad 77 Mar 2022

Date Received	•	27 Mar 2023
Test Period	:	28 Mar 2023 to 28 Mar 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.

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

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

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Issue Date : 30 Mar 2023

Report No.:00361Application No.:HP00236

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	114.3	+ 0.3	± 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.

Report No.

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

: 00364



Issue Date : 03 Apr 2023

: HP00240 Application No. **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	:	03 Apr 2023
Test Period	:	03 Apr 2023 to 03 Apr 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.

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

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Issue Date : 03 Apr 2023

Report No.:00364Application No.:HP00240

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.

Report No.

Test Result

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: 00393



: 02 Aug 2023

Issue Date

Application No. : HP00275 **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-13-01 Manufacturer: : SOUNDTEK Other information : Model No. ST-120 Serial No. 181001608 : 28 Jul 2023 Date Received Test Period : 31 Jul 2023 to 31 Jul 2023 : Performance checking for Sound Level Calibrator **Test Requested** 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%

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

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

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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Lee Wai Kit Laboratory Manager

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Issue Date : 02 Aug 2023

Report No.:00393Application No.:HP00275

Certificate of Calibration

Measuring equipment

Description	Cound Calibrator	
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	114.2	+ 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.

Report No.

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: 00396



: 02 Aug 2023

Issue Date

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 : 01 Aug 2023 Date Received Test Period : 01 Aug 2023 to 01 Aug 2023 : Performance checking for Sound Level Calibrator **Test Requested** 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

Lee Wal Kit Laboratory Manager

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Report No.:00396Application No.:HP00278

<u>Certificate of Calibration</u>

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.

- End of report -

Issue Date : 02 Aug 2023

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: 00389 Issue Date : 20 Jul 2023 Report No. 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 : 18 Jul 2023 Date Received Test Period : 19 Jul 2023 to 19 Jul 2023 : Performance checking for Sound Level Calibrator **Test Requested** 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



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Issue Date : 20 Jul 2023

Report No.:00389Application No.:HP00262

<u>Certificate of Calibration</u>

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.