

輝 創 工 程 有 限 公 司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration

校正證書

Certificate No.: C231907

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC23-0587)

Date of Receipt / 收件日期: 20 March 2023

Description / 儀器名稱

Integrating Sound Level Meter

Manufacturer / 製造商

Brüel & Kjær

Model No. / 型號

2238

Serial No. / 編號

2684503 Atkins China Limited

Supplied By / 委託者

13/F., Wharf T&T Centre, Harbour City,

Tsim Sha Tsui, Kowloon, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 :

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

Relative Humidity / 相對濕度 :

 $(50 \pm 25)\%$

Line Voltage / 電壓

TEST SPECIFICATIONS / 測試規節

Calibration check

DATE OF TEST / 測試日期

1 April 2023

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
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試

K C Lee Engineer

Certified By 核證

K K Wong

Engineer

Date of Issue 簽發日期

6 April 2023

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。

Sun Creation Engineering Limited - Calibration & Testing-Laboratory c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 - 校正及檢測實驗所 c/o 香港新界屯門興安里一號四樓

Tel/電話: (852) 2927 2606 Fax/傳真: (852) 2744 8986 E-mail/電郵: callab@suncreation.com

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1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.

Self-calibration using the B & K Sound Calibrator 4231, S/N: 3004068 was performed before the test. 2.

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

4. Test equipment:

Equipment ID

CL280 CL281

Description

40 MHz Arbitrary Waveform Generator Multifunction Acoustic Calibrator

Certificate No. C230306 AV210017

5. Test procedure: MA101N.

6. Results:

Sound Pressure Level: 6.1

Reference Sound Pressure Level 6.1.1

	UUT Setting			Applied Value		UUT	IEC 61672 Class 1
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Limit
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
50 - 130	L _{AFP}	A	F	94.00	1	94.1	± 1.1

6.1.2 Linearity

	UUT	Setting		Applied V	alue	UUT
Range	Parameter	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
50 - 130	L_{AFP}	A	F	94.00	1	94.1 (Ref.)
-				104.00		104.1
	-			114.00		114.1

IEC 61672 Class 1 Limit: \pm 0.6 dB per 10 dB step and \pm 1.1 dB for overall different.

6.2 Time Weighting

UUT Setting			Applied Value		UUT	IEC 61672 Class 1	
Range	Parameter	Frequency	Time Level Freq.		Reading	Limit	
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
50 - 130	L_{AFP}	Α	F	94.00	1	94.1	Ref.
	L_{ASP}		S			94.1	± 0.3

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

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Certificate No.:

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6.3 Frequency Weighting

6.3.1 A-Weighting

		Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Limit
(dB)	-	Weighting	Weighting	(dB)		(dB)	(dB)
50 - 130	L_{AFP}	A	F	94.00	63 Hz	67.9	-26.2 ± 1.5
					125 Hz	77.9	-16.1 ± 1.5
-					250 Hz	85.4	-8.6 ± 1.4
	l c				500 Hz	90.8	-3.2 ± 1.4
					1 kHz	94.1	Ref.
					2 kHz	95.3	$+1.2 \pm 1.6$
					4 kHz	95.1	$+1.0 \pm 1.6$
					8 kHz	92.9	-1.1 (+2.1; -3.1)
					12.5 kHz	89.8	-4.3 (+3.0; -6.0)

6.3.2 C-Weighting

		Setting		Appl	ied Value	UUT	IEC 61672 Class 1
Range	Parameter	Frequency	Time	Level	Freq.	Reading	Limit
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
50 - 130	L_{CFP}	С	F	94.00	63 Hz	93.3	-0.8 ± 1.5
					125 Hz	93.9	-0.2 ± 1.5
					250 Hz	94.1	0.0 ± 1.4
					500 Hz	94.1	0.0 ± 1.4
					1 kHz	94.1	Ref.
					2 kHz	93.9	-0.2 ± 1.6
					4 kHz	93.2	-0.8 ± 1.6
					8 kHz	91.0	-3.0 (+2.1; -3.1)
					12.5 kHz	87.9	-6.2 (+3.0; -6.0)

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Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C231907

證書編號

Remarks: - UUT Microphone Model No.: 4188 & S/N: 2682524

- Mfr's Limit: IEC 61672 Class 1

- Uncertainties of Applied Value : 94 dB : 63 Hz - 125 Hz : \pm 0.35 dB

250 Hz - 500 Hz : $\pm 0.30 \text{ dB}$ 1 kHz : $\pm 0.20 \text{ dB}$ 2 kHz - 4 kHz : $\pm 0.35 \text{ dB}$ 8 kHz : $\pm 0.45 \text{ dB}$ 12.5 kHz : $\pm 0.70 \text{ dB}$

104 dB : 1 kHz : \pm 0.10 dB (Ref. 94 dB) 114 dB : 1 kHz : \pm 0.10 dB (Ref. 94 dB)

- 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.

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration

校正證書

Certificate No.:

C231906

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC23-0587)

Sound Calibrator

Date of Receipt / 收件日期: 20 March 2023

Description / 儀器名稱 Manufacturer / 製造商

Brüel & Kjær

Model No. / 型號

4231

Serial No. / 編號

3004068

Supplied By / 委託者

Atkins China Limited

13/F., Wharf T&T Centre, Harbour City, Tsim Sha Tsui, Kowloon, 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

1 April 2023

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
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試

K C Lee Engineer

Certified By 核證

K K Wong Engineer Date of Issue

6 April 2023

簽發日期

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.

E-mail/電郵: callab@suncreation.com

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C231906

證書編號

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

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

3. Test equipment:

Equipment ID

CL130 CL281 TST150A Description

Universal Counter

Measuring Amplifier

Multifunction Acoustic Calibrator

C223647

Certificate No.

AV210017 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	94.1	± 0.2	± 0.2
114 dB, 1 kHz	114.1		

Frequency Accuracy 52

1 requested 1 recuracy			
UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Limit	(Hz)
1	1.000 0	1 kHz ± 0.1 %	± 0.1

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

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Page 2 of 2

ENVIROTECH SERVICES CO.

High-Volume TSP Sampler 5-Point Calibration Record

Location : AMS5(Ma Wan Chung Village)

Calibrated by : P.F.Yeung Date : 04/05/2023

Sampler

Model : TE-5170 Serial Number : S/N3640

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 15 December 2022

 Slope (m)
 : 2.06918

 Intercept (b)
 : -0.04220

 Correlation Coefficient(r)
 : 0.99997

Standard Condition

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

Calibration Condition

Pa (hpa) : 1009 Ta(K) : 301

R	Resistance	dH [green liquid]	Z	X=Qstd	IC	Y
	Plate	(inch water)		(cubic		
				meter/min)		
1	18 holes	10.8	2.826	1.386	57	56.61
2	13 holes	8.4	2.493	1.225	52	51.64
3	10 holes	6.0	2.107	1.038	46	45.69
4	7 holes	4.0	1.720	0.852	40	39.73
5	5 holes	2.4	1.332	0.664	33	32.77

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

Sampler Calibration Relationship

Slope(m):32.809 Intercept(b):11.391 Correlation Coefficient(r): 0.9994

Checked by: Magnum Fan Date: 06/052023

ENVIROTECH SERVICES CO.

<u>High-Volume TSP Sampler</u> <u>5-Point Calibration Record</u>

Location : AMS5(Ma Wan Chung Village)

Calibrated by : P.F.Yeung Date : 28/06/2023

Sampler

Model : TE-5170 Serial Number : S/N3640

Calibration Orifice and Standard Calibration Relationship

Serial Number : 2454

Service Date : 15 December 2022

 Slope (m)
 : 2.06918

 Intercept (b)
 : -0.04220

 Correlation Coefficient(r)
 : 0.99997

Standard Condition

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

Calibration Condition

Pa (hpa) : 1010 Ta(K) : 303

Resi	stance Plate	dH [green liquid]	Z	X=Qstd	IC	Y
		(inch water)		(cubic meter/min)		
1	18 holes	12.2	3.459	1.692	54	53.48
2	13 holes	9.5	3.053	1.496	49	48.53
3	10 holes	7.2	2.657	1.305	42	41.60
4	7 holes	4.6	2.124	1.047	35	34.66
5	5 holes	2.5	1.566	0.777	28	27.73

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

Sampler Calibration Relationship

Slope(m):28.594 Intercept(b):5.076 Correlation Coefficient(r): 0.9984

Checked by: Magnum Fan Date: 04/07/2023



RECALIBRATION DUE DATE:

December 15, 2023

Certificate of Calibration

Calibration Certification Information

Cal. Date:

December 15, 2022

TE-5025A

Rootsmeter S/N: 438320

Ta: 295

°K

Operator: Jir

Calibration Model #:

Jim Tisch

Calibrator S/N: 2454

Pa: 742.4 mm Hg

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4060	3.2	2.00
- 2	3	4	1	0.9980	6.4	4.00
3	5	6	1	0.8900	7.9	5.00
4	7	8	1	0.8520	8.8	5.50
5	9	10	1	0.7040	12.7	8.00

		Data Tabula	tion		
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	√∆H(Ta/Pa)
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)
0.9826	0.6988	1.4049	0.9957	0.7082	0.8914
0.9783	0.9803	1.9868	0.9914	0.9934	1.2607
0.9763	1.0970	2.2213	0.9894	1.1116	1.4095
0.9751	1.1445	2.3297	0.9881	1.1598	1.4783
0.9700	1.3778	2.8097	0.9829	1.3962	1.7829
	m=	2.06918		m=	1.29568
QSTD	b=	-0.04220	QA	b=	-0.02677
	r=	0.99997		r=	0.99997

	Calculation	S	
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	Qa=	Va/ΔTime
	For subsequent flow rate	e calculatio	ns:
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
ΔH: calibrator	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
Ta: actual abs	olute temperature (°K)
Pa: actual bar	ometric 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

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

EQUIPMENT CALIBRATION RECORD

Type:	Laser Dust Monitor
Manufacturer / Brand :	SIBATA
Model No.:	LD-5R
Equipment No.:	LD-5R-002
Serial No.:	861988
Sensitivity Adjustment Scale Setting:	621 CPM

Standard Equipment

Equipment :	MFC High Volume Air Sampler
Venue:	Tung Chung Pier
Model No.:	TE-5170 Total Suspended Particulate
Serial No.:	S/N3641
Previous Calibration Date:	24-Apr-2023

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): 621 CPM

Sensitivity Adjustment Scale Setting (After Calibration): 621 CPM

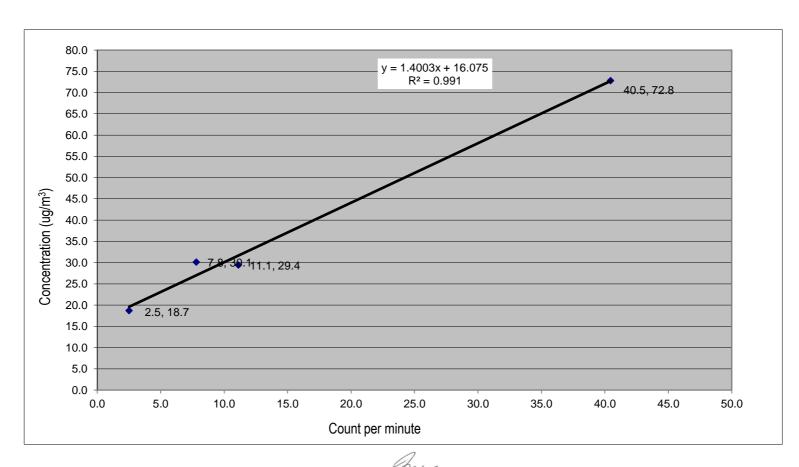
Date (dd-mmm-yy)	Time		Ambient (Condition	Concentration (ug/m³)	Total Count	Count/Minute X-axis
			Temp (°C)	R.H. (%)	Y-axis		
10-May-23	9:25	11:25	31.4	68%	72.8	2427	40.5
16-May-23	9:00	11:00	25.2	87%	29.4	668	11.1
16-May-23	14:30	15:30	25.2	87%	30.1	469	7.8
16-May-23	15:35	16:35	25.2	87%	18.7	151	2.5

Be Linear Regression of Y or X

 Slope (K-factor):
 1.4003
 Intercept,b:
 16.0750

Correlation coefficient (R): 0.99550

Remark: Srong Correlation (R>0.8)



Recorded by: Irene Tsang Signature: Date: 01-Jun-23

Checked by: Ruby Law Signature: Date: 01-Jun-23



ALS Technichem (HK) Pty Ltd

11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street. Kwai Chung, N.T., Hong Kong

T: +852 2610 1044 F: +852 2610 2021 www.alsglobal.com

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

MR W S CHAN

CLIENT:

AECOM ASIA COMPANY LIMITED

ADDRESS:

1501-10, 15/F, TOWER 1.

GRAND CENTRAL PLAZA,

138 SHATIN RURAL COMMITTEE ROAD, SHATIN, NEW TERRITORIES, HONG KONG WORK ORDER:

HK2317850

SUB-BATCH:

LABORATORY: **DATE RECEIVED:** HONG KONG

09-May-2023

DATE OF ISSUE:

12-May-2023

SPECIFIC COMMENTS

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client. The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

Equipment Type:

Multifunctional Meter

Service Nature:

Performance Check

Scope:

Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature

Brand Name/ Model No.:

[YSI]/[6820 V2]

Serial No./ Equipment No.:

[12A101545]/[W.026.35]

Date of Calibration:

09-May-2023

GENERAL COMMENTS

This report superseded any previous report(s) with same work order number.

Ms. Lin Wai Yu, Iris

Assistant Manager - Inorganics

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WORK ORDER:

HK2317850

SUB-BATCH:

0

DATE OF ISSUE:

12-May-2023

CLIENT:

AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/ [6820 V2]

Serial No./

[12A101545]/[W.026.35]

Equipment No.: Date of Calibration:

09-May-2023

Date of Next Calibration:

09-August-2023

PARAMETERS:

Conductivity

Method Ref: APHA (23rd edition), 2510B

Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)
146.9	148	+0.7
6667	6683	+0.2
12890	12834	-0.4
58670	56255	-4.1
	Tolerance Limit (%)	±10.0

Dissolved Oxygen

Method Ref: APHA (23rd edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.90	2.87	-0.03
4.65	4.67	+0.02
7.60	7.64	+0.04
	Tolerance Limit (mg/L)	±0.20

pH Value

Method Ref: APHA (23rd edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	3.95	-0.05
7.0	7.11	+0.11
10.0	10.06	+0.06
	Tolerance Limit (pH unit)	±0.20

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris

WORK ORDER:

HK2317850

SUB-BATCH:

0

DATE OF ISSUE:

12-May-2023

CLIENT:

AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/

Model No.: Serial No./

[YSI]/[6820 V2]

Equipment No.:

[12A101545]/[W.026.35]

Date of Calibration:

09-May-2023

Date of Next Calibration:

09-August-2023

PARAMETERS:

Turbidity

Method Ref: APHA (23rd edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	
4	4.0	+0.0
10	9.6	-4.0
20	19.1	-4.5
50	49.1	-1.8
100	99.7	-0.3
	Tolerance Limit (%)	±10.0

Salinity

Method Ref: APHA (23rd edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	
10	10.00	+0.0
20	19.74	-1.3
30	29.83	-0.6
	Tolerance Limit (%)	±10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris



WORK ORDER:

HK2317850

SUB-BATCH:

0

DATE OF ISSUE:

12-May-2023

CLIENT:

AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

Serial No./

[YSI]/[6820 V2]

Equipment No.:

[12A101545]/[W.026.35]

Date of Calibration:

09-May-2023

Date of Next Calibration:

09-August-2023

PARAMETERS:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
10.0	9.91	-0.1
20.0	20.40	+0.4
37.0	36.91	-0.1
07.0	Tolerance Limit (°C)	±2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

N:5

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics



ALS Technichem (HK) Pty Ltd

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Kwai Chung, N.T., Hong Kong

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT:

MR W S CHAN

CLIENT:

AECOM ASIA COMPANY LIMITED

ADDRESS:

1501-10, 15/F, TOWER 1,

GRAND CENTRAL PLAZA.

138 SHATIN RURAL COMMITTEE ROAD,

SHATIN, NEW TERRITORIES, HONG KONG

WORK ORDER:

HK2317851

SUB-BATCH:

0

LABORATORY:

HONG KONG

DATE RECEIVED: DATE OF ISSUE: 09-May-2023

12-May-2023

SPECIFIC COMMENTS

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client. The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

Equipment Type:

Multifunctional Meter

Service Nature:

Performance Check

Scope:

Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature

Brand Name/ Model No.:

[YSI]/[6820 V2]

Serial No./ Equipment No.:

[00H1019]/[W.026.09]

Date of Calibration:

09-May-2023

GENERAL COMMENTS

This report superseded any previous report(s) with same work order number.

Ms. Lin Wai Yu. Iris

Assistant Manager - Inorganics

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HK2317851

SUB-BATCH:

0

DATE OF ISSUE:

12-May-2023

CLIENT:

AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/

[YSI]/[6820 V2]

Model No.: Serial No./ [131]/ [0020 12

Equipment No.:

[00H1019]/[W.026.09]

Date of Calibration:

09-May-2023

Date of Next Calibration:

09-August-2023

PARAMETERS:

Conductivity

Method Ref: APHA (23rd edition), 2510B

Total of the test			
Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	
146.9	146	-0.6	
6667	6669	+0.0	
12890	12860	-0.2	
58670	56082	-4.4	
333.1	Tolerance Limit (%)	±10.0	

Dissolved Oxygen

Method Ref: APHA (23rd edition), 45000: G

ethod Ref. AFHA (251d edition), 40000. G			
Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	
2.90	2.96	+0.06	
4.65	4.60	-0.05	
7.60	7.56	-0.04	
	Tolerance Limit (mg/L)	±0.20	

pH Value

Method Ref: APHA (23rd edition), 4500H: B

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	4.02	+0.02
7.0	7.13	+0.13
10.0	10.06	+0.06
	Tolerance Limit (pH unit)	±0.20

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris

WORK ORDER:

HK2317851

SUB-BATCH:

C

DATE OF ISSUE:

12-May-2023

CLIENT:

AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/ Model No.:

[YSI]/[6820 V2]

Serial No./

[00H1019]/[W.026.09]

Equipment No.: Date of Calibration:

09-May-2023

Date of Next Calibration:

09-August-2023

PARAMETERS:

Turbidity

Method Ref: APHA (23rd edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	-0.1	
4	4.3	+7.5
10	10.1	+1.0
20	18.7	-6.5
50	49.5	-1.0
100	97.2	-2.8
	Tolerance Limit (%)	±10.0

Salinity

Method Ref: APHA (23rd edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	
10	10.07	+0.7
20	19.58	-2.1
30	29.78	-0.7
	Tolerance Limit (%)	±10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris



WORK ORDER:

HK2317851

SUB-BATCH:

0

DATE OF ISSUE:

12-May-2023

CLIENT:

AECOM ASIA COMPANY LIMITED

Equipment Type:

Multifunctional Meter

Brand Name/

D/CI1/1/020 V21

Model No.: Serial No./ [YSI]/[6820 V2]

Seriai No./

[00H1019]/[W.026.09]

Equipment No.: Date of Calibration:

09-May-2023

Date of Next Calibration:

09-August-2023

PARAMETERS:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)
10.0	9.94	-0.1
20.0	20.22	+0.2
37.0	37.06	+0.1
	Tolerance Limit (°C)	±2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

N:5

Ms. Lin Wai Yu, Iris