

Appendix C Calibration Certificates of Monitoring Equipment



Certificate No. 607984

Page

2 Pages

Customer: Enovative Environmental Service Limited

Address: Flat 6, 3/F, Block E, Wah Lok Industrial Centre, 31-35 Shan Mei Street, Shatin, N.T., Hong Kong.

Order No.: Q63261

Date of receipt

6-Sep-16

Item Tested

Description : Sound Level Calibrator

Manufacturer: Rion

I.D.

: 215901

Model

: NC-74

Serial No.

: 34857296

Test Conditions

Date of Test: 23-Sep-16

Supply Voltage : --

Ambient Temperature:

 $(23 \pm 3)^{\circ}C$

Relative Humidity: (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: F21, Z02, IEC 60942.

Test Results

All results were within the IEC 60942 Class 1 specification.

The results are shown in the attached page(s).

Main Test equipment used:

Equipment No	o. Description	Cert. No.	Traceable to
S014	Spectrum Analyzer	605758	NIM-PRC & SCL-HKSAR
S240	Sound Level Calibrator	601604	NIM-PRC & SCL-HKSAR
S041	Universal Counter	607883	SCL-HKSAR
S206	Sound Level Meter	605757	SCL-HKSAR

The values given in this Calibration 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 environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant. The test results apply to the above Unit-Under-Test only

Calibrated by :

Approved by:

23-Sep-16

Alan Chu

This Certificate is issued by

Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.

Tel: 2425 8801 Fax: 2425 8646

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Certificate No. 607984

Page 2 of 2 Pages

Results:

1. Generated Sound Pressure Level

UUT Nominal Value (dB)	Measured Value (dB)	IEC 60942 Class 1 Spec.
94	94.1	± 0.4 dB

Uncertainty: ± 0.1 dB

2. Short-term Level Fluctuation: 0.0 dB

IEC 60942 Class 1 Spec. : ± 0.1 dB

Uncertainty: ± 0.01 dB

3. Frequency

UUT Nominal Value (kHz)	Measured Value (kHz)	IEC 60942 Class 1 Spec.
1	1.002 1	± 1 %

Uncertainty: $\pm 3.6 \times 10^{-6}$

4. Total Distortion : < 1.3 %

IEC 60942 Class 1 Spec. : < 3 % Uncertainty : \pm 2.3 % of reading

Remark: 1. UUT: Unit-Under-Test

2. The uncertainty claimed is for a confidence probability of not less than 95%.

3. Atmospheric Pressure: 1018 hPa.

----- END -----

TSP Sampler Calibration

SITE

Location: Lian Tang 3
Sampler: TE-5170 MFC (Serial # : 2359) Date: November 5, 2016 Sam Wong Tech:

CONDITIONS Barometric Pressure (in Hg): 39.90 Corrected Pressure (mm Hg): 1013 Temperature (deg F): Temperature (deg K): 299 Average Press. (in Hg): 39.90 Corrected Average (mm Hg): 1013 Average Temp. (deg F): Average Temp. (deg K):

CALIBRATION ORIFICE

Make: Tisch Qstd Slope: 2.00411 Model: TE-5025A Qstd Intercept: -0.03059 Serial#: 1612 Date Certified: March 14, 2016

CALIBRATIONS						
Plate or Test #	H2O (in)	Qstd (m3/min)	I (chart)	IC (corrected)	LINEAR REGRESSION	
1	12.00	2.009	56.0	64.61	Slope =	31.4853
2	10.00	1.836	52.0	59.99	Intercept =	2.0532
3	8.20	1.664	48.0	55.38	Corr. coeff.=	0.9987
4	5.20	1.328	38.0	43.84		
5	3.20	1.045	30.0	34.61	<pre># of Observations:</pre>	5

Calculations

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate

IC = corrected chart response I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg For subsequent calculation of sampler flow:

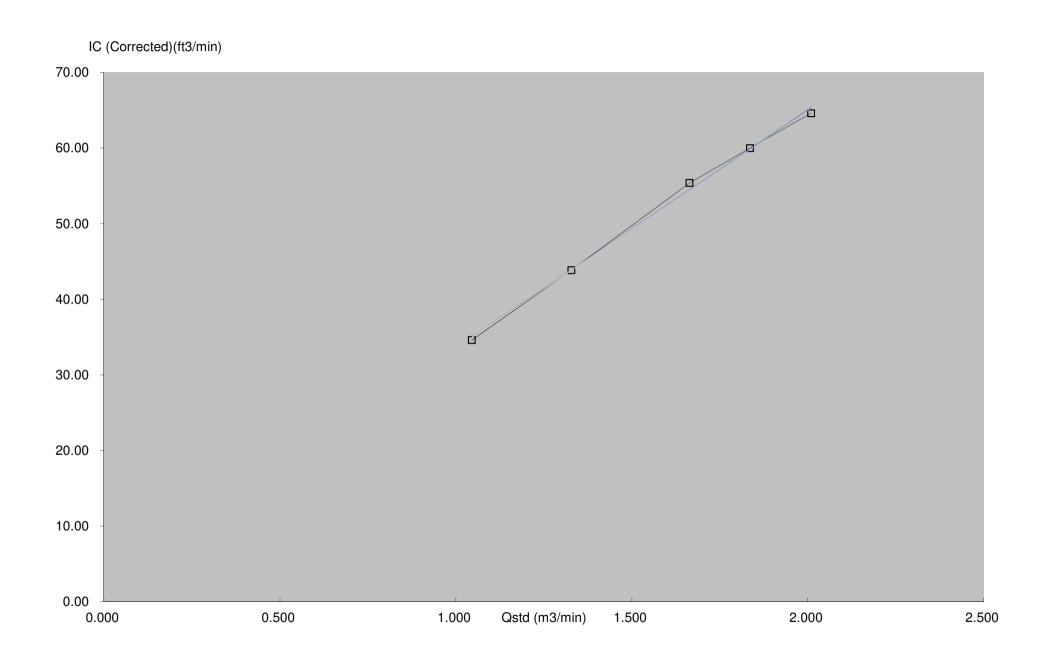
1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

= sampler slope = sampler intercept m

b

= chart response

Tav = daily average temperature Pav = daily average pressure





TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAMI AVE VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Operator		Rootsmeter Orifice I.I		438320 1612	Ta (K) - Pa (mm) -	295 - 745.49
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA NA	NA NA NA NA NA	1.00 1.00 1.00 1.00	1.3770 0.9710 0.8710 0.8310 0.6860	3.2 6.4 7.8 8.7 12.6	2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9866 0.9824 0.9804 0.9793 0.9741	0.7165 1.0117 1.1256 1.1785 1.4200	1.4078 1.9909 2.2259 2.3345 2.8155		0.9957 0.9914 0.9894 0.9883 0.9830	0.7231 1.0210 1.1360 1.1893 1.4330	0.8896 1.2581 1.4066 1.4753 1.7792
Qstd slop intercept coefficie	(b) =	2.00411 -0.03059 0.99995	n e n	Qa slope intercept coefficie	= (b) $=$	1.25494 -0.01933 0.99995
y axis =	SQRT[H20(E	Pa/760) (298/5	ra)]	y axis =	SQRT[H2O([a/Pa)

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta)

Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa]

Qa = Va/Time

For subsequent flow rate calculations:

Qstd = $1/m\{[SQRT(H2O(Pa/760)(298/Ta))] - b\}$

 $Qa = 1/m\{[SQRT H2O(Ta/Pa)] - b\}$



QUALITY PRO TEST-CONSULT LIMITED

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Tel: (852) 3956 8717; Fax: (852) 3956 3928

Report of Equipment Performance Check/Calibration

Test Report No.

AF120113

Date of Issue

: 20 December, 2016

Page No.

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PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Rm 811, Hin Pui House, Hin Keng Estate, Tai Wai New Territories, Hong Kong Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI Professional Plus (Pro Plus) Multiparameter with sensor probe

Manufacturer

YSI (a xylem brand)

Serial Number

IOD 101566

Client's Reference Number

.

Date of Received

16 Dec, 2016

Date of Calibration

Date of Next Calibration^(a)

16 Dec, 2016 16 Mar, 2017

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Parameter</u>

Reference Method

pH at 25°C Dissolved Oxygen APHA 21e 4500-H⁺ B APHA 21e 4500-O G

Conductivity at 25°C

APHA 21e 2510B

Salinity

APHA 21e 2520B

Temperature

Section 6 of international Accreditation New Zealand Technical

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

PART D - CALIBRATION RESULTS(b,c)

pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	3.96	-0.04	Satisfactory
7,42	7.37	-0.05	Satisfactory
10.01	10.05	+0.04	Satisfactory

Tolerance of pH should be less than ±0.10 (pH unit)

~ CONTINUED ON NEXT PAGE ~

Remark(s)

(a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

(b) The results relate only to the calibrated equipment as received

(e) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

"Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.

The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

APPROVED SIGNATORY:

FUNG Yuen-ching Aries Laboratory Manager



Tel: (852) 3956 8717; Fax: (852) 3956 3928

Report of Equipment Performance Check/Calibration

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AF120113

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PART D - RESULT (Cont'd)

Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
16.0	15.6	-0.4	Satisfactory
21.0	20.4	-0.6	Satisfactory
34.5	34.0	-0.5	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

Dissolved Oxygen

Reading of Ref. DO (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.15	0.19	+0.04	Satisfactory
3.43	3.49	+0.06	Satisfactory
8.60	8.70	+0.10	Satisfactory

Tolerance limit of dissolved oxygen should be less than ±0.20 (mg/L)

Conductivity at 25°C

Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	Results
146.9	142.5	-3.0	Satisfactory
1412	1387	-1.8	Satisfactory
12890	12804	-0.7	Satisfactory
58670	57964	-1.2	Satisfactory
111900	110282	-1.4	Satisfactory

Tolerance limit of conductivity should be less than ±10.0 (%)

Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.92	-0.8	Satisfactory
20	20.14	+0.7	Satisfactory
30	30.26	+0.9	Satisfactory

Tolerance limit of salinity should be less than ± 10.0 (%)



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Report of Equipment Performance Check/Calibration

Test Report No.

AF090104

Date of Issue

27 Sep, 2016

Page No.

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PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd. Rm 811, Hin Pui House, Hin Keng Estate, Tai Wai New Territories, Hong Kong Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI Professional Plus (Pro Plus) Multiparameter with sensor probe

Manufacturer

YSI (a xylem brand)

Serial Number

IOD 101566

Client's Reference Number

.

Date of Received Date of Calibration 19 Sep, 2016

Date of Calibration

Date of Next Calibration^(a)

19 Sep, 2016 19 Dec, 2016

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter

Reference Method

pH at 25°C

APHA 21e 4500-H⁺ B APHA 21e 4500-O G

Dissolved Oxygen Conductivity at 25°C

APHA 21e 2510B

Salinity

APHA 21e 2520B

Temperature

Section 6 of international Accreditation New Zealand Technical

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

PART D - CALIBRATION RESULTS(b,c)

pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.05	+0.05	Satisfactory
7.42	7.38	-0.04	Satisfactory
10.01	9.98	-0.03	Satisfactory

Tolerance of pH should be less than ±0.10 (pH unit)

Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
33.0	33.3	+0.3	Satisfactory
26.0	25.8	-0.2	Satisfactory
12.0	11.6	-0.4	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

APPROVED SIGNATORY:

YIU Sok-fong, Marble Laboratory Manager

⁽a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

⁽b) The results relate only to the calibrated equipment as received

⁽c) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

⁽d) "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.

⁽e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.



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Report of Equipment Performance Check/Calibration

Test Report No.

: AF090104

Date of Issue

: 27 Sep, 2016

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PART D - RESULT (Con't)

Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
8.54	8.62	+0.08	Satisfactory
5.30	5.24	-0.06	Satisfactory
3.40	3.35	-0.05	Satisfactory

Tolerance limit of dissolved oxygen should be less than ±0.20 (mg/L)

Conductivity at 25°C

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)	Results
146.9	144.5	-1.6	Satisfactory
1412	1386	-1.8	Satisfactory
12890	12655	-1.8	Satisfactory

Tolerance limit of conductivity should be less than ±10.0 (%)

Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results	
0	0.00	222	Satisfactory	
10	10.19	+1.9	Satisfactory	
20	20.03	+0.2	Satisfactory	
30	29.97	-0.1	Satisfactory	

Tolerance limit of salinity should be less than ± 10.0 (%)



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Report of Equipment Performance Check/Calibration

Test Report No.

AF090105

Date of Issue

27 Sep, 2016

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PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd. Rm 811, Hin Pui House, Hin Keng Estate, Tai Wai New Territories, Hong Kong Attn: Mr. Thomas Wong

PART B - SAMPLE INFORMATION

Description of Samples

HACH 2100Q Protable Turbidimeter

Brand Name

HACH

Model Number

21000

Serial Number

13120C029845

Serial Number Equipment Number

12520

Date of Received

19 Sep, 2016

Date of Calibration

19 Sep. 2016

Date of Next Calibration^(a)

19 Dec, 2016

PART C - CALIBRATION REQUESTED

Parameter

Reference Method

Turbidity

APHA 21e 2130 B

PART D - RESULT(bc)

Turbidity

Expected Reading (NTU)	Displayed Reading(d) (NTU)	Tolerance(e)(%)	Results
O O	0.00		Satisfactory
4	3.91	-2.2	Satisfactory
20	19.9	-0.5	Satisfactory
100	97.5	-2.5	Satisfactory
800	808	+1.0	Satisfactory

Tolerance limit of turbidity should be less than ±10.0 (%)

~ END OF REPORT ~

APPROVED SIGNATORY:

YIU Sok-fong, Marble Laboratory Manager

⁽a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

⁽b) The results relate only to the tested sample as received

⁽s) the performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

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

⁽e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.



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Report of Equipment Performance Check/Calibration

Test Report No.

AF120114a

Date of Issue

: 04 January, 2017

Page No.

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PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Rm 811, Hin Pui House, Hin Keng Estate, Tai Wai New Territories, Hong Kong Attn: Mr. Thomas Wong

PART B - SAMPLE INFORMATION

Description of Samples

HACH 2100Q Protable Turbidimeter

Brand Name

HACH

Model Number

2100Q

13120C029845

Serial Number

Equipment Number

Date of Received

16 Dec, 2016

Date of Calibration

16 Dec, 2016

Date of Next Calibration(a)

16 Mar, 2017

PART C - CALIBRATION REQUESTED

Parameter

Reference Method

Turbidity

APHA 21e 2130 B

PART D - RESULT(bc)

Turbidity

Expected Reading (NTU)	Displayed Reading(d) (NTU)	Tolerance(e)(%)	Results
0	0.00		Satisfactory
4	4.12	+3.0	Satisfactory
20	20.9	+4.5	Satisfactory
100	105	+5.0	Satisfactory
800	817	+2.1	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

~ END OF REPORT ~

This report supersedes the previous report no. AF120114 dated 20 December 2016.

Remark(s)

APPROVED SIGNATORY:

FUNG Yuen-ching Aries Laboratory Manager

⁽a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

⁽b) The results relate only to the tested sample as received

⁽c) the performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary

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

⁽e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.



Certificate No. 608737

Page 3 Pages

Customer: Enovative Environmental Service Limited

Address: Flat 6, 3/F, Block E, Wah Lok Industrial Centre, 31-35 Shan Mei Street, Shatin, N.T., Hong Kong.

Order No.: Q63459

Date of receipt

22-Sep-16

Item Tested

Description: Sound Level Meter

Manufacturer: B&K

I.D.

Model

: 2238

Serial No.

: 2694908

Test Conditions

Date of Test:

3-Oct-16

Supply Voltage : --

Ambient Temperature :

 $(23 \pm 3)^{\circ}C$

Relative Humidity: (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure: Z01, IEC 651 and IEC 804.

Test Results

All results were within the IEC 651 Type1 and IEC 804 Type1 specification.

The results are shown in the attached page(s).

Main Test equipment used:

Equipment No. Description

Cert. No.

Traceable to

S017

Multi-Function Generator

C147450

SCL-HKSAR

S240

Sound Level Calibrator

601604

NIM-PRC & SCL-HKSAR

The values given in this Calibration 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 environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant. The test results apply to the above Unit-Under-Test only

Calibrated by :

Kin Wong

Approved by:

This Certificate is issued by

Hong Kong Calibration Ltd.

Date: 3-Oct-16

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong. Tel: 2425 8801 Fax: 2425 8646



Certificate No. 608737

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Results:

1. SPL Accuracy

UUT Setting			Applied Value	UUT	
Range	Freq. Wgt.	Bandwith	Center Freq.	(dB)	Reading (dB)
$20 \sim 100$	A	BB/F		94.0	94.0
A	A	BB/S			94.0
	C	BB/F			94.0
$40 \sim 120$	A	BB/F		94.0	94.0
	A	BB/F		114.0	114.2

IEC 60651 Type 1 Spec. : \pm 0.7 dB

Uncertainty: $\pm 0.1 \text{ dB}$

2. Level Stability: 0.0 dB

IEC 60651 Type 1 Spec. : \pm 0.3 dB

Uncertainty: ± 0.1 dB

3. Linearity

3.1 Level Linearity

UUT Range	Applied	UUT Reading	Variation	IEC 60651 Type 1 Spec.
(dB)	Value (dB)	(dB)	(dB)	(Primary Indicator Range)
140	114.0	114.0	0.0	± 0.7 dB
130	104.0	104.0	0.0	
120	94.0	94.0 (Ref.)		
110	84.0	84.0	0.0	
100	74.0	74.0	0.0	
90	64.0	64.0	0.0	
80	54.0	54.0	0.0	

Uncertainty: ± 0.1 dB

3.2 Differential level linearity

UUT Range (dB)	Applied Value (dB)	UUT Reading (dB)	Variation (dB)	IEC 60651 Type 1 Spec.
120	84.0	84.1	+0.1	± 0.4 dB
	94.0	93.9 (Ref.)		
	95.0	95.0	0.0	± 0.2 dB

Uncertainty: $\pm 0.1 \text{ dB}$



Certificate No. 608737

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4. Frequency Weighting

A weighting

Frequenc	y Attenuati	on (dB)	EC 60651 Type 1	Spec.
31.5 H	-39	.3	- 39.4 dB, ± 1.5	5 dB
63 H	-26	.2	- 26.2 dB, ± 1.5	5 dB
125 H	z -16	.2	- 16.1 dB, ± 1	dB
250 H	-8	.7	- 8.6 dB, ± 1	dB
500 H	-3	.2	- $3.2 \text{ dB}, \pm 1$	dB
1 kH	\tilde{z} 0	.0 (Ref)	$0 \text{ dB}, \pm 1$	dB
2 kH	z +1	.2	+ 1.2 dB, ± 1	dB
4 kH	z +1	.0	$+$ 1.0 dB, \pm 1	dB
8 kH	Z -1	.2 -	1.1 dB, + 1.5 dB	~ -3 dB
16 kH	-6	.7	- 6.6 dB, + 3 dB	~- ∞

Uncertainty: $\pm 0.1 \text{ dB}$

5. Time Averaging

Applied Burst duty Factor	Applied Leq Value (dB)	UUT Reading (dB)	IEC 60804 Type 1 Spec.
continuous	40.0	40.0	
1/10	40.0	39.9	± 0.5 dB
$1/10^2$	40.0	39.9	
$1/10^3$	40.0	39.9	± 1.0 dB
1/10 ⁴	40.0	39.5	

Uncertainty: ± 0.1 dB

Remarks:

- 1. UUT: Unit-Under-Test
- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure: 1013 hPa
- 4. The UUT was adjusted with the laboratory's sound calibrator at the reference sound pressure level before the calibration.

----- END -----