

ANNEX F

NOISE



ANNEX F1 CALIBRATION CERTIFICATES FOR NOISE

Certificate of Calibration

for

Description:

Sound Level Calibrator

Manufacturer:

Larson Davis

Type No.:

CAL 200

Serial No.:

15678

Submitted by:

Customer:

Upon receipt for calibration, the instrument was found to be:

Envirotech Services Co.

Address:

Rm.712, 7/F., My Loft, 9 Hoi Wing Road,

Tuen Mun, Hong Kong

☑ Within	
Outside	
the allowable tolerance.	
The test equipments used for calibration are traceable to National Standards via: - The Government of The Hong Kong Special Administrative Region Standard & Calibratory	ibration
Date of receipt: 03 January 2025	
Date of calibration: 06 January 2025	

Calibrated by: ______ Calibration Tachnician

Date of NEXT calibration: 05 January 2026

Certified by:_

Mr. Ng Yan Wa Kaboratory Manager

Date of issue: 06 January 2025

TESTING LABORNO 2 (A+A) *L CONTROL **

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1. Calibration Precautions:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature:	22.9°C
Air Pressure:	1019 hP a
Relative Humidity:	33.2 %

4. Calibration Equipment:

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV240109	HOKLAS

5. Calibration Results

5.1 Sound Pressure Level

Nominal value dB	Accept lower level dB	Accept upper level dB	Measured value dB
94.0	93.6	94.4	94.1
114.0	113.6	114.4	114.1

6. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 60942 Class 1.

Note:

The values given in this certification only related to the values measured at the time of the calibration.



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Homepage: http://www.aa-lab.com

Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

RION

Type No.:

NL-52 (Serial No.: 00542913)

Microphone:

UC-53A (Serial No.: 99995)

Preamplifier:

NH-25 (Serial No.:43068)

Submitted by:

Customer:

Envirotech Services Co.

Address:

Rm.712, 7/F., My Loft, 9 Hoi Wing Road,

Tuen Mun, Hong Kong

Upon receipt for calibration, the instrument was found to be:

✓ Within (31.5Hz – 8kHz)

☐ Outside

the allowable tolerance.

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

The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 28 August 2024

Date of calibration: 29 August 2024

Date of NEXT calibration: 28 August 2025

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 29 August 2024

E-mail: inquiry@aa-lab.com

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Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature:

24.6°C

Air Pressure:

1004 hPa

Relative Humidity:

53.9 %

3. Calibration Equipment:

Type

Serial No.

Calibration Report Number

Traceable to

Multifunction Calibrator

B&K 4226

2288467

AV240081

HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)		Appl	ied value	UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq. We	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)			test (UUT) Applied value			UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Wo	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
30-130	dBA	SPL	SPL Fast	104	1000	104.0	±0.3
			114		114.0	±0.3	

Time Weighting

Setting of Unit-under-test (UUT)			Appl	ied value	UUT Reading,	IEC 61672 Class 1	
Range, dB F	req. Wei	ghting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
	****		Fast	38031744		94.0	Ref
30-130	dBA SPL	SPL	Slow	94	1000 NR TESTIN	LABORA . O	±0.3

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Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1				
Range, dB	Freq. We	eighting	Time Weighting	Level, dB	Frequency, Hz	dВ	Specification, dB			
					31.5	92.7	±2.0			
				63	93.7	±1.5				
						125	93.9	±1.5		
		dB SPL							250	94.0
30-130	dB		Fast	Fast 94	94	500	94.0	±1.4		
					1000	94.0	Ref			
					2000	93.9	±1.6			
					4000	94.3	±1.6			
					8000	92.4	+2.1; -3.1			

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	53.5	-39.4 ±2.0
					63	67.5	-26.2±1.5
					125	77.8	-16.1 ±1.5
					250	85.3	-8.6±1.4
30-130	dBA	SPL	Fast	94	500	90.8	-3.2 ±1.4
					1000	94.0	Ref
					2000	95.2	+1.2 ±1.6
					4000	95.3	`+1.0±1.6
					8000	91.3	-1.1+2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1			
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB		
					31.5	89.7	-3.0 ± 2.0		
				۵	63	92.9	-0.8 ± 1.5		
			Fast		125	93.8	-0.2 ±1.5		
		dBC SPL			250	94.0	-0.0 ± 1.4		
30-130	dBC			94	500	94.0	-0.0±1.4		
	abe siz						1000	94.0	Ref
				1.7.27.5.11	2000	93.8	-0.2±1.6		
					4000	93.5	-0.8±1.6		
					8000	89.4	-3.0 +2.1: -3.1		

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5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.10
	125 Hz	± 0.10
	250 Hz	± 0.10
	500 Hz	± 0.10
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.10
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow 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 calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.



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ANNEX F2 MONITORING SCHEDULE FOR NOISE

Tung Chung New Town Extension (East)
Noise Monitoring Schedule (August 2025)

Noise Monitoring Concade (Adgust 2020)									
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday			
					1-Aug	2-Aug			
3-Aug	4-Aug	5-Aug	6-Aug	7-Aug	8-Aug	9-Aug			
	l								
	Noise Monitoring					Noise Monitoring			
10-Aug	44 0	10 10	12 1	14 0	45 4	10 10			
TU-Aug	11-Aug	12-Aua	13-Aua	14-Aua	15-Aua	16-Aua			
					Noise Monitoring				
					Noise Monitoring				
17-Aug	18-Aug	19-Aug	20-Aug	21-Aug	22-Aug	23-Aug			
17 764	107444	10 7449	20 7449	E17 tag	EL / lag	20 7449			
				Noise Monitoring					
				3					
24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug			
			Noise Monitoring						
31-Aug									
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ANNEX F3 MONITORING RESULTS FOR NOISE

Table F3.1 Data for Noise Monitoring at Station NMS-CA-1A during Normal Working Hours (0700-1900 hours)

Date & Time	L _{eq (5min)}	L ₁₀	L ₉₀	L _{eq (30min)}
8/4/2025 15:31	63.0	66.2	58.1	64.9
8/4/2025 15:36	64.9	68.1	57.6	
8/4/2025 15:41	63.1	66.8	58.1	
8/4/2025 15:46	65.4	68.7	57.9	
8/4/2025 15:51	66.4	68.1	60.1	
8/4/2025 15:56	65.7	69.1	60.0	
8/9/2025 9:46	69.2	72.4	58.1	
8/9/2025 9:51	67.8	70.4	59.9	
8/9/2025 9:56	61.5	64.5	57.3	66.2
8/9/2025 10:01	66.2	67.5	58.9	66.3
8/9/2025 10:06	65.4	66.5	58.5	
8/9/2025 10:11	63.3	66.3	58.2	
8/15/2025 14:20	63.5	65.5	60.9	66.1
8/15/2025 14:25	67.9	70.0	63.1	
8/15/2025 14:30	66.0	68.5	61.9	
8/15/2025 14:35	65.8	69.0	61.8	
8/15/2025 14:40	65.9	68.7	61.6	
8/15/2025 14:45	66.2	68.7	62.0	
8/21/2025 9:42	67.6	69.3	62.1	67.6
8/21/2025 9:47	67.6	69.7	63.5	
8/21/2025 9:52	69.3	70.4	62.2	
8/21/2025 9:57	65.2	67.3	62.1	
8/21/2025 10:02	68.5	72.1	60.7	
8/21/2025 10:07	66.5	68.6	60.8	
8/27/2025 9:41	67.4	69.4	63.0	68.0
8/27/2025 9:46	65.7	67.8	61.4	
8/27/2025 9:51	68.3	70.4	63.1	
8/27/2025 9:56	69.2	71.0	62.4	
8/27/2025 10:01	69.4	69.7	62.0	
8/27/2025 10:06	66.6	68.2	61.7	

Figure F3.1 Graphical Presentation for Noise Monitoring at Station NMS-CA-1A

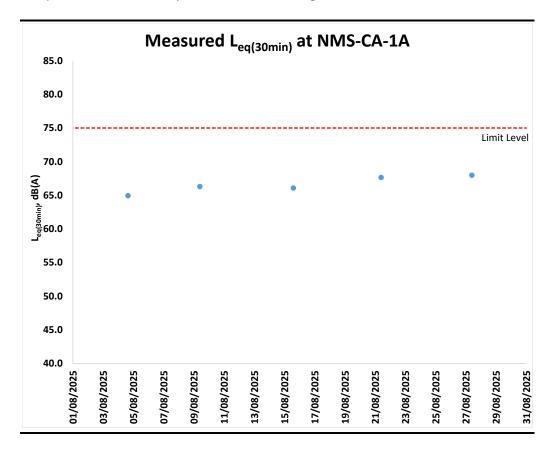
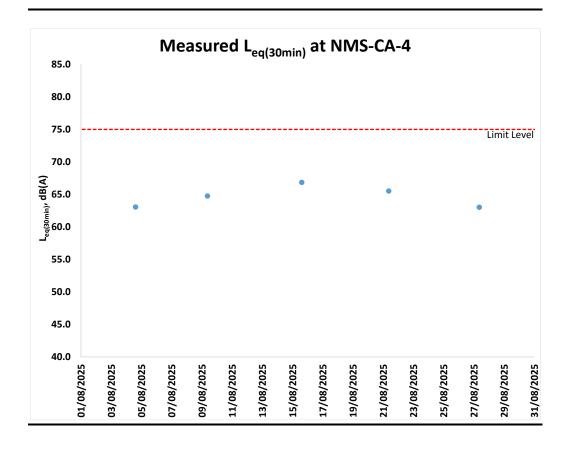


Table F3.2 Data for Noise Monitoring at Station NMS-CA-4 during Normal Working Hours (0700-1900 hours)

Date & Time	L _{eq (5min)}	L ₁₀	L ₉₀	L _{eq (30min)}
8/4/2025 14:50	63.9	65.6	62.0	63.1
8/4/2025 14:55	63.7	64.2	61.6	
8/4/2025 15:00	62.7	63.4	60.5	
8/4/2025 15:05	61.7	62.9	60.3	
8/4/2025 15:10	62.7	64.0	61.0	
8/4/2025 15:15	63.3	65.3	61.2	
8/9/2025 9:05	63.2	64.1	61.9	
8/9/2025 9:10	64.5	66.6	62.2	
8/9/2025 9:15	65.3	67.7	63.7	64.8
8/9/2025 9:20	65.2	66.2	64.0	04.0
8/9/2025 9:25	64.7	65.5	63.7	
8/9/2025 9:30	65.3	66.9	63.6	
8/15/2025 14:55	66.9	68.8	63.7	66.8
8/15/2025 15:00	66.5	67.9	64.1	
8/15/2025 15:05	67.0	69.2	62.3	
8/15/2025 15:10	66.5	69.3	61.4	
8/15/2025 15:15	67.5	69.6	63.8	
8/15/2025 15:20	66.6	68.5	64.0	
8/21/2025 9:01	66.5	69.5	62.6	65.5
8/21/2025 9:06	65.6	68.8	61.5	
8/21/2025 9:11	65.6	67.7	63.0	
8/21/2025 9:16	65.6	67.7	62.4	
8/21/2025 9:21	65.3	67.2	63.1	
8/21/2025 9:26	64.2	65.8	62.3	
8/27/2025 9:00	63.2	63.9	61.4	63.0
8/27/2025 9:05	63.3	65.0	61.5	
8/27/2025 9:10	64.2	66.6	61.1	
8/27/2025 9:15	62.2	63.5	60.8	
8/27/2025 9:20	62.7	64.9	60.4	
8/27/2025 9:25	62.2	63.7	60.6	

Figure F3.2 Graphical Presentation for Noise Monitoring at Station NMS-CA-4





ANNEX F4 EVENT AND ACTION PLAN FOR NOISE

Annex F4 Event and Action Plan for Construction Noise

Event	Action					
Event	ET	IEC	ER	Contractor		
Action Level Exceedance	Notify IEC, ER and Contractor; Carry out investigation;	1. Review the analysed results submitted by the ET;	Confirm receipt of notification of failure in writing;	1. Submit noise mitigation proposals to IEC and ER;		
	3. Report the results of investigation to the IEC, ER and Contractor;4. Discuss with the Contractor and formulate remedial measures;5. Increase monitoring frequency to check mitigation effectiveness.	2. Review the proposed remedial measures by the Contractor and advise the ER accordingly;3. Supervise the implementation of remedial measures.	 Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented 	2. Implement noise mitigation proposals.		
Limit Level Exceedance	 Identify source; Inform IEC, ER, EPD and Contractor; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. 		

ENVIRONMENTAL RESOURCES MANAGEMENT

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT