

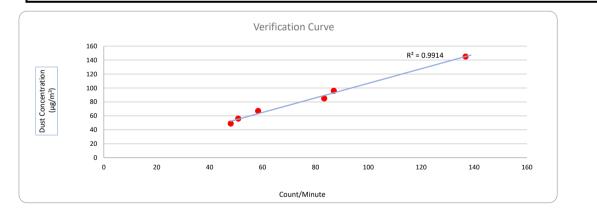
Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Verification Test Date:	13-Sep-24	to	14-Sep-24	Next Verification Test Date:	12-Sep-25
Unit-under-Test- Model No.:	Sibata LD-5R		R		
Unit-under-Test Serial No.:	0Z4545				
Our Report Refrence No.:		RPT-23-HVS-0	065		
Calibration Location:	AM2	location nea	ment Works within the NENTX Landfill		

	Standard Equipment Inforn	nation
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	13-Sep-24	16-Jan-24
Next Calibration Date:	12-Sep-25	15-Jan-25

	Equipement Vertification Result										
Verification		Duration			Results from	Calibrated Equipement	Results from Standard Equipment				
Test No.	Date	Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (µg/m³) y-axis				
1	28/11/23	8789.68	8792.68	180.00	15648	87	96				
2	28/11/23	8792.68	8795.68	180.00	14993	83	85				
3	28/11/23	8795.68	8798.68	180.00	8635	48	49				
4	30/11/23	8798.68	8801.68	180.00	10501	58	67				
5	30/11/23	8801.68	8804.68	180.00	24622	137	145				
6	30/11/23	8804.68	8807.68	180.00	9145	51	56				

Linear Regression of y on x									
Slope, K factor:	<u>1.0451</u>	Intercept:	<u>2.1545</u>	*Correlation Coefficient,R:	<u>0.9957</u>				
Verification Test Result:	Strong Correlation, Results were accepted.			* If the Correlation Coefficient, R is <0.5. Chee	cking and Re-verification are required.				



Operated By:

Andy Li

41C

Date: 14-09-2024

Project Technician, Environmental

Checked By:

Tandy Tse Senior Consultant, Environmental

Date: 14-09-2024



Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

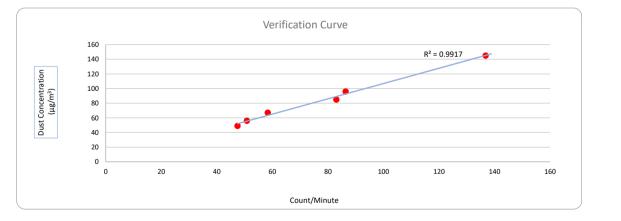
Information of Calibrated Equipement								
13-Sep-24	to	14-Sep-24	Next Verification Test Date:	12-Sep-25				
Sibata LD-5R								
882106								
RPT-23-HVS-0068		68						
AM2, location near the Leachate Treatment Works within the NENTX Landfill								
	RI	13-Sep-24 to Sibata LD-5R 882106 RPT-23-HVS-00 882106	13-Sep-24 to 14-Sep-24 Sibata LD-5R 882106 882106 RPT-23-HVS-0068	13-Sep-24 to 14-Sep-24 Next Verification Test Date: Sibata LD-5R 882106 882106 1000000000000000000000000000000000000				

	Standard Equipment Informat	tion
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	13-Sep-24	16-Jan-24
Next Calibration Date:	12-Sep-25	15-Jan-25

	Equipement Vertification Result									
Verification	V. 10	Duration			Results from	Calibrated Equipement	Results from Standard Equipment			
Test No.	Date		rt-time End-time Elapse (in		Total Counts	Counts/ Minute x-axis	Dust Concentration (μg/m³) y-axis			
1	28/11/23	8789.68	8792.68	180.00	15546	86	96			
2	28/11/23	8792.68	8795.68	180.00	14944	83	85			
3	28/11/23	8795.68	8798.68	180.00	8543	47	49			
4	30/11/23	8798.68	8801.68	180.00	10499	58	67			
5	30/11/23	8801.68	8804.68	180.00	24622	137	145			
6	30/11/23	8804.68	8807.68	180.00	9145	51	56			

Linear Regression of y on x

	Slope, K factor:	<u>1.0437</u>	Intercept:	<u>2.4993</u>	*Correlation Coefficient,R:	<u>0.9958</u>
Veri	ification Test Result:	Strong Correlation, Re	esults were accepted.		* If the Correlation Coefficient, R is <0.5. Chec	king and Re-verification are required.



Operated By:

Andy Li Project Technician, Environmental

Tandy Tse

Checked By:

Senior Consultant, Environmental

Date: 14-09-2024

Date:

14-09-2024



Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

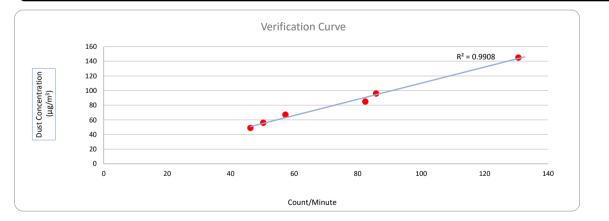
Information of Calibrated Equipement							
13-Sep-24	to	14-Sep-24	Next Verification Test Date:	12-Sep-25			
Sibata LD-5R			_				
942532							
RPT-23-HVS-0071		71					
AM2,	AM2, location near the Leachate Treatment Works within the NENTX Landfill						
	R	13-Sep-24 to Sibata LD-5R 942532 RPT-23-HVS-00 1000000000000000000000000000000000000	13-Sep-24 to 14-Sep-24 Sibata LD-5R 942532 942532 RPT-23-HVS-0071	13-Sep-24 to 14-Sep-24 Next Verification Test Date: Sibata LD-5R 942532 942532 RPT-23-HVS-0071			

	Standard Equipment Informat	tion
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	13-Sep-24	16-Jan-24
Next Calibration Date:	12-Sep-25	15-Jan-25

	Equipement Vertification Result									
Verification		Duration			Results from	n Calibrated Equipement	Results from Standard Equipment			
Test No.	Date	Date Start-time		Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (μg/m³) y-axis			
1	28/11/23	8789.68	8792.68	180.00	15446	86	96			
2	28/11/23	8792.68	8795.68	180.00	14835	82	85			
3	28/11/23	8795.68	8798.68	180.00	8320	46	49			
4	30/11/23	8798.68	8801.68	180.00	10303	57	67			
5	30/11/23	8801.68	8804.68	180.00	23517	131	145			
6	30/11/23	8804.68	8807.68	180.00	9043	50	56			

Linear Regression of y on x

Slope, K factor:	<u>1.1020</u>	Intercept:	<u>-0.1223</u>	*Correlation Coefficient,R:	<u>0.9954</u>
Verification Test Result:	Strong Correlation, Re	sults were accepted.		* If the Correlation Coefficient, R is <0.5. Chec	king and Re-verification are required.



Operated By:

Andy Li Project Technician, Environmental

Date: 14-09-2024

Tandy Tse

Checked By:

Senior Consultant, Environmental

Date:

14-09-2024



Certificate of Calibration

for

Description:	Sound Level Meter
Manufacturer:	SVANTEK
Type No.:	SVAN 971 (Serial No.: 96062)
Microphone:	ACO 7052E (Serial No.: 85231)
Preamplifier:	SV-18 (Serial No.: 121481)

Submitted by:

Customer: Aurecon Hong Kong Limited Address: Unit 1608, 16/F, Tower B, Manulife Financial Centre, 223-231 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

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

✓ Within (31.5Hz − 4kHz)□ 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: 22 July 2024

Date of calibration: 24 July 2024

Date of NEXT calibration: 23 July 2025

Calibrated by: Calibration Technician

Date of issue: 24 July 2024

Certificate No.: APJ23-155-CC002

Certified by: Mr. Ng Yan Wa Laboratory Manager

Page 1 of 4

■ (A+A)*L 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:	23.4 °C
Air Pressure:	1005 hPa
Relative Humidity:	56.7 %

3. Calibration Equipment:

	Туре	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)		Applied value		UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq. We	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
35-137	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

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
			94		94.0	Ref	
35-137	dBA	SPL	Fast	104	1000	104.0	±0.3
		114		114.0	±0.3		

Time Weighting

Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
35-137	dBA	SPL	Fast	04	1000	94.0	Ref
35-137 dBA	SA SPL	Slow	94	1000	5 LABON 94.0	±0.3	

Certificate No.: APJ23-155-CC002

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com Page 2 of 4



Frequency Response

Linear Response

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	94.6	±2.0														
						63	94.4	±1.5													
25 127 JD ODI		0.4	125	94.4	±1.5																
	Fast		250	94.3	±1.4																
55-157	35-137 dB SPL Fast	rasi	Fast	Fast	Fast	Tast	Fast	Tast	Past	rasi	Past	Past	rasi	Tast	Tast	Tast	Tast 94	94	500	94.2	±1.4
			1000	94.0	Ref																
			2000	93.6	±1.6																
					4000	93.5	±1.6														

A-weighting

Setting of Unit-under-test (UUT)			Appl	ied value	UUT Reading,	IEC 61672 Class 1										
Range, dB	Freq. V	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB									
				31.5	55.2	-39.4 ±2.0										
					63	68.3	-26.2±1.5									
35-137 dBA SPL Fa	Fast		125	78.2	-16.1±1.5											
		Feet	Fast	Fast	Fast	Fast	Fast	Fast	Fast	Feet	Fact	Fact	Fact	Fact	94	250
55-157	UDA	SFL								94	500	90.9	-3.2 ± 1.4			
				1000	94.0	Ref										
			2000	94.8	$+1.2\pm1.6$											
		4000	94.5	$+1.0 \pm 1.6$												

C-weighting

Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1													
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB											
					31.5	91.6	-3.0 ±2.0											
						63	93.6	-0.8±1.5										
	35-137 dBC SPL		94	125	94.2	-0.2 ± 1.5												
35-137		Fast		250	94.3	-0.0 ± 1.4												
55-157	ube	51 L	Past	1 ast 94	1 451	1 451	1 ust	1 431	T dot	i ust	1 431	1 450	1 450	1 450		500	94.2	-0.0 ± 1.4
													1000	94.0	Ref			
				2000	93.4	-0.2 ±1.6												
					4000	92.7	-0.8±1.6											



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Certificate No.: APJ23-155-CC002

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

·(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

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	± 0.05
	63 Hz	± 0.05
	125 Hz	± 0.10
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	\pm 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
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.



Page 4 of 4

Certificate No.: APJ23-155-CC002

Certificate of Calibration

for

Description:	Sound Level Calibrator
Manufacturer:	RION
Type No.:	NC-75
Serial No.:	34724243

Submitted by:

Customer:	Aurecon Hong Kong Limited
Address:	Unit 1608, 16/F, Tower B, Manulife Financial Centre,
	223-231 Wai Yip Street, Kwun Tong,
	Kowloon, Hong Kong

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

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 & Calibration Laboratory

Date of receipt: 2 October 2024

Date of calibration: 4 October 2024

Date of NEXT calibration: 3 October 2025

Calibrated by:

Calibration Technician

Date of issue: 4 October 2024

Certified by:

Mr. Ng Yan Wa Laboratory Manager



Certificate No.: APJ23-154-CC004

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com Page 1 of 2

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:	1005 hPa
Relative Humidity:	50.7 %

4. Calibration Equipment:

Test Equipment	Туре	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	Accept lower level	Accept upper level	Measured value
dB	dB	dB	dB
94.0	93.6	94.4	94.0

Note:

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



Certificate No.: APJ23-154-CC004

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