Contract No. EP/SP/66 Integrated Waste Mana	/12 gement Facilities, Phase 1	Keppel Seghers – Zhen Hua Joint Venture
Appendix E	Noise Monitoring Equipment Certificate	nt Calibration



FACTORY CALIBRATION DATA OF THE SVAN 971 No. C119577

with preamplifier SVANTEK type SV 18 No. C122487 and with microphone ACO type 7052E No. 85197

1. CALIBRATION (acoustical)

LEVEL METER function; Range: Low; Reference frequency: 1000Hz; Sound Pressure Level: 114.03 dB.

Characteristic	Correct value [dB]	Indication [dB]	Error [dB]
Z	114.03	114.05	0.02
A	114.03	114.05	0.02
С	114.03	114.05	0.02

Calibration measured with the microphone ACO type 7052E No. 85197. Calibration factor: 0.74 dB.

2. LINEARITY TEST* (electrical)

LEVEL METER function: Range: Low: Characteristic: A: f == 31.5 Hz

DE TEE METETE TUNCTION, TEMESO.	Don, chui	me terrotte.	A, A 5011					
Nominal result LEQ [dB]	24.0	25.0	26.0	28.0	30.0	40.0	60.0	83.0
Error [dB]	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0

LEVEL METER function; Range: Low; Characteristic: A; f sin= 1000 Hz

Nominal result LEQ [dB]	24.0	25.0	26.0	28.0	30.0	40.0	60.0	80.0	100.0	123.0
Error [dB]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0

LEVEL METER function: Range: Low: Characteristic: A: f sin= 8000 Hz

Nominal result LEQ [dB]	24.0	25.0	26.0	28.0	30.0	40.0	60.0	80.0	100.0	122.0
Error [dB]	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0

LEVEL METER function; Range: High; Characteristic: A; f sin= 31.5 Hz

Nominal result LEQ [dB]	34.0	35.0	36.0	38.0	40.0	60.0	80.0	97.0
Error [dB]	0.0	0.0	0.0	0.0	0.0	0.0	-0.0	0.0

LEVEL METER function; Range: High; Characteristic: A; f sin= 1000 Hz

Nominal result LEQ [dB]	34.0	35.0	36.0	38.0	40.0	60.0	80.0	100.0	120.0	137.0
Error [dB]	-0.0	0.0	-0.0	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	-0.0

LEVEL METER function; Range: High; Characteristic: A; f sin= 8000 Hz

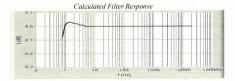
Nominal result LEQ [dB]	34.0	35.0	36.0	38.0	40.0	60.0	80.0	100.0	120.0	136.0
Error [dB]	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	0.0	0.0	-0.0	0.0

1/3 OCTAVE (1kHz); Range: Low; f sin= 1000 Hz

Nominal result [dB]	25.0	30.0	40.0	60.0	80.0	100.0	120.0	123.0
Error [dB]	0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0

4. FREQUENCY RESPONSE' (electrical)

LEVEL METER function; Characteristic: Z; Range: Low; Input signal =120 dB;



Measured Filter Response with Preamplifier SV18

f [Hz]	L [dB]	f [Hz]	L [dB]	f [Hz]	L [dB]
10	-0.1	63	0.0	4000	0.0
12.5	-0.0	125	0.0	8000	0.0
16	0.0	250	0.0	16000	0.0
20	0.0	500	0.0	20000	0.0
25	0.0	1000	0.0		
31.5	0.0	2000	0.0		

All frequencies are nominal center values for the 1/3 octave bands

5. INTERNAL NOISE LEVEL* (electrical - compensated)

LEVEL METER function: Range: Low: (Back-light - off) : Calibration factor: 0dB

	, , , , , , , , , , , , , , , , , , , ,						
Characteristic	Z	A	С				
Level [dB]	≤20	≤12	<12				

^{*} measured with preamplifier SVANTEK type SV 18 No. C122487.

6. INTERNAL NOISE LEVEL (acoustical - compensated)

LEVEL METER function; Characteristic: A; (Backlight - off)

Range	Low	High
Indication [dB]	≤15	20.5

Noise measured in special chamber, with reference microphone G.R.A.S type 40AN No. 73421

ENVIRONMENTAL CONDITIONS

Temperature	Relative humidity	Ambient pressure
23 °C	42%	1008 hPa

TEST EQUIPMENT

Item	Manufacturer	Model	Serial no.	Description
1.	SVANTEK	SVAN 401	100	Signal generator
2.	SVANTEK	SVAN 912A	4369	Sound & Vibration Analyser
3.	RIGOL	DM3068	DM30155100773	Digital multimeter
4.	SVANTEK	SV33B	93171	Acoustic calibrator
5.	SVANTEK	ST02	-	Microphone equivalent electrical impedance (18pF)

CONFORMITY & TEST DECLARATION

- 1. Herewith Svantek company declares that this instrument has been calibrated and tested in compliance with the internal ISO9001 procedures and meets all specification given in the Manual(s) or respectively surpass them.
- 2. The acoustic calibration was performed using the Sound Calibrator and is traceable to the GUM (Central Office of Measures) reference standard sound level calibrator type 4231 No 2292773.
- 3. The information appearing on this sheet has been compiled specifically for this instrument. This form is produced with advanced equipment & procedures which permit comprehensive quality assurance verification of all data supplied herein.
- 4. This calibration sheet shall not be reproduced except in full, without written permission of the SVANTEK Ltd.

Calibration specialist: Cezary Dardziński

Test date: 2022-10-11



FACTORY CALIBRATION DATA OF THE SV N 971 No. C132260

with preamplifier SVANTEK type SV 18 No. C132221 and with microphone ACO type 7052E No. 82767

1. CALIBRATION (acoustical)

LEVEL METER function; Range: Low; Reference frequency: 1000Hz; Sound Pressure Level: 114.03 dB

Characteristic	Correct value [dB]	Indication [dB]	Error [dB]
Z	114.03	114.05	0.02
A	114.03	114.05	0.02
С	114.03	114.05	0.02

Calibration measured with the microphone ACO type 7052E No. 82767, Calibration factor: 0.68 dB.

2. LINEARITY TEST* (electrical)

LEVEL METER function; Range: Low; Characteristic: A; f sin= 31.5 Hz

ominal result LEQ [dB]	24.0	25.0	26.0	28.0	30.0	40.0
error [dB]	0.1	0.1	0.0	0.0	0.0	0.0

LEVEL METER function; Range: Low; Characteristic: A; f_{sin} = 1000 Hz

Nominal result LEQ [dB]	24.0	25.0	26.0	28.0	30.0	40.0	To
Error [dB]	0.1	0.1	0.1	0.0	0.1	0.0	-0.0 80.0 100.0 123.0

LEVEL METER function; Range: Low; Characteristic: A; f_{sin} = 8000 Hz

Nominal result LEQ [dB]	24.0	25.0	26.0	28.0	30.0	40.0	
Error [dB]	0.1	0.1	0.0	0.0	0.0	-0.0	-0.0 80.0 100.0 122.0

LEVEL METER function; Range: High; Characteristic: A; f_{sin} = 31.5 Hz

Nominal result LEQ [dB]	34.0	35.0	36.0	38.0	40.0	60.0	0.0
Error [dB]	0.0	0.0	0.0	0.0	0.0	0.0	80.0 97

LEVEL METER function; Range: High; Characteristic: A; f_{sin} = 1000 Hz

Nominal result LEQ [dB]	34.0	35.0	36.0	38.0	40.0	60.0	20.0
Error [dB]	0.1	0.1	0.1	0.0	0.0	-0.0	0.0 100.0 120.0
LEVEL METER function: Range	High: Char	actoristic	A. C = 00	200 11			-0.0 -0.0 -0.0

LEVEL METER function; Range: High; Characteristic: A; f_{sin} = 8000 Hz

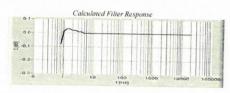
34.0	35.0	36.0	38.0	40.0	60.0	80.0
0.1	0,0	0.1	0.0			-0.0 100.0 120.0 136.0
	0.1			20.0	20.0 40.0	30.0 40.0 00.0

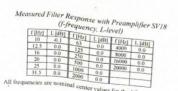
1/3 OCTAVE (1kHz); Range: Low; f sin= 1000 Hz

Nominal result [dB]	25.0	30.0	40.0	60,0	80.0	100.0	120
Error [dB]	0.1	0.0	0.0	-0.0	-0.0	0.0	120.0 123.0

4. FREQUENCY RESPONSE* (electrical)

LEVEL METER function; Characteristic: Z; Range: Low; Input signal =120 dB;





5. INTERNAL NOISE LEVEL (electrical - compensated)

LEVEL METER function; Range: Low; (Back-light-off); Calibration factor: 0dB

EVEL METER function; Ra	7	A	C
Characteristic	<20	≤12	≤12

^{*}measured with preamplifier SVANTEK type SV 18 No. C132221.

6. INTERNAL NOISE LEVEL (acoustical - compensated)

LEVEL METER function; Characteristic: A; (Backlight - off)

EVEL METER function; Chara	Low	High
Range	- 15	20.4

Noise measured in special chamber, with reference microphone G.R.A.S type 40AN No. 73421

ENVIRONMENTAL CONDITIONS

	Relative humidity	Ambient pressur
Temperature	Relative number	1012 hPa
21 °C	43%	1012 111 11

TEST EQUIPMENT

			T 0 11	Description
	Manufacturer	Model	Serial no.	Signal generator
tem		SVAN 401	100	Sound & Vibration Analyser
	SVANTEK	SVAN 912A		
	SVANTEK		DM30155100773	Digital multimeter
	RIGOL	DM3068	93171	Acoustic calibrator (18pF)
-	SVANTEK	SV33B	93171	Acoustic catherator Microphone equivalent electrical impedance (18pF)
	SVANTEK	ST02	-	

- 1. Herewith Syantek company declares that this instrument has been calibrated and tested in compliance with the internal ISO9001 procedures and meets all specification given in the Manual(s) or respectively surpass them.

 2. The acoustic calibration was performed using the Sound Calibrator and is traceable to the GUM (Central Office of Measures) reference standard sound level calibrator type 4231 No 2292773.

 3. The information appearing on this cheef has been contributed profiteable for this instrument. This formation appearing on this cheef has been contributed profiteable for this instrument.
- sound level calibrator type 4231 No 2292773.

 3. The information appearing on this sheet has been compiled specifically for this instrument. This form is produced with advanced equipment & procedures which permit comprehensive quality assurance verification of all data supplied herein.

 4. This calibration sheet shall not be reproduced except in full, without written permission of the SVANTEK Ltd.

Calibration specialist: Cezary Dardziński

Test date: 2022-10-27



FACTORY CALIBRATION DATA OF THE SVAN 971 No. C132261

with preamplifier SVANTEK type SV 18 No. C132231 and with microphone ACO type 7052E No. 85231

1. CALIBRATION (acoustical)

LEVEL METER function; Range: Low; Reference frequency: 1000Hz; Sound Pressure Level: 114.07

Error [dB]	Indication [dB]	Correct value [dB]	Characteristic
0.00	114.07	114.07	Z
0.00	114.07	114.07	A
0.00	114.07	114.07	С

Calibration measured with the microphone ACO type 7052E No. 85231. Calibration factor: 0.95 dB.

2. LINEARITY TEST* (electrical)

LEVEL METER function; Range: Low; Characteristic: A; f_{sin} = 31.5 Hz

Nominal result LEQ [dB]	24.0	25.0	26.0	28.0	30.0	40.0	60
Errer [dB]	0.1	0.1	0.1	0.0	0.0	0.0	00.0

LEVEL METER function; Range: Low; Characteristic: A; f_{sin} = 1000 Hz

Nominal result LEQ [dB]	24.0	25.0	26.0	28.0	30.0	40.0	60.0
Error [dB]	0.1	0.0	0.1	0.0	0.0	0.0	50.0
LEVEL METER function; Range	: Low; Char	acteristic:	A; f sin= 80	00 Hz			0.0 100.0

Nominal result LEQ [dB]	24.0	25.0	26.0	28.0	30.0	40.0	60.6
Error [dB]	0.0	0.0	0.0	-0.0	0.0	-0.0	60.0
							0.0 100.0 122.0
							0.0 -0.0

LEVEL METER function; Range: High; Characteristic: A; f_{sin} = 31.5 Hz

Nominal result LEQ [dB]	34.0	35.0	36.0	38.0	40.0	60.0	80.0
Error [dB]	0.0	0.0	0.0	0.0	0,0	0.0	97.0
No. of the state o							0.0

LEVEL METER function; Range: High; Characteristic: A; f_{sin}= 1000 Hz

Nominal result LEQ [dB]	34.0	35.0	36.0	38.0	40.0	60.0	80.0
Error [dB]	0.1	0.1	0.1	0.0	0.0	-0.0	-0.0 100.0
LEVEL METER function; Range	: High; Cha	racteristic:	A; f sin= 80	000 Hz			-0.0 120.0 137.0 -0.0 -0.0
Mandania LIFO LIDI	240	25.0		1			

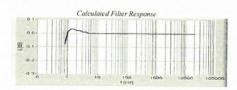
Nominal result LEQ [dB]	34.0	35.0	36.0	38.0	40.0	60.0	80.0
Error [dB]	-0.0	0.0	-0.0	-0.0	-0.0	-0.0	0.0 100.0
							0.0 120.0 136.0
1/3 OCTAVE (ILHz): Range: Lo	6 - 100	0.11					-0.0 0.0

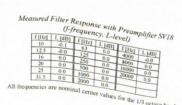
1/3 OCTAVE (1kHz); Range: Low; f_{sin}= 1000 Hz

Nominal result [dB]	25.0	30.0	40.0	60.0	80.0	100.0	120.0
Error [dB]	0.1	0.0	0.0	-0.0	0.0	0.0	0.0 123.0
							0.0

4. FREQUENCY RESPONSE* (electrical)

LEVEL METER function; Characteristic: Z; Range: Low; Input signal =120 dB;





5. INTERNAL NOISE LEVEL (electrical - compensated)

5. INTERNAL NOISE	- tille off	· Calibration factor: 0dB
5. INTERNAL NOTES. LEVEL METER function; Ran	ge: Low; (Back-light - on)	A C
LEVEL METER A	Z	≤12 ≤12
Characteristic	≤20	312
Level [dB]		

 $^{^{\}bullet}$ measured with preamplifier SVANTEK type SV 18 No. C132231.

6. INTERNAL NOISE LEVEL (acoustical - compensated)

LEVEL METER function; Characteristic: A; (Backlight - off)

	Characteristic: A; (Backli	ght - 011)
LEVEL METER function	, Characteristic: A; (Backli	High
Range	≤15	20.9
Indication [dB]		. Land GRA

Noise measured in special chamber, with reference microphone G.R.A.S type 40AN No. 73421

ENVIRONMENTAL CONDITIONS

	RONMENTAL COM	Ambient pressure
- roture	Relative humidity	1011 hPa
Temperature	47%	

	TEST EQUI	PMENT Description
Item Manufacturer 1. SVANTEK 2. SVANTEK 3. RIGOL 4. SVANTEK 5. SVANTEK	SVAN 401 100 SVAN 912A 4369	Signal generator Sound & Vibration Analyser Digital multimeter Acoustic calibrator Microphone equivalent electrical impedance (18pF)

- 1. Herewith Syantek company declares that this instrument has been calibrated and tested in compliance with the internal ISO9001 procedures and meets all specification given in the Manual(s) or respectively surpass them.

 2. The acoustic calibration was performed using the Sound Calibrator and is traceable to the GUM (Central Office of Measures) reference standard—sound level calibrator type 4231 No 2292773.

 3. The information appearing on this sheet has been compiled specifically for this instrument. This form is produced with advanced equipment & procedures which permit comprehensive quality assurance verification of all data supplied herein.

 4. This calibration sheet shall not be reproduced except in full, without written permission of the SVANTEK Ltd.

- Calibration specialist: Cezary Dardziński

Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

SVANTEK

Type No.:

971 (Serial No.: 96062)

Microphone:

13905

Preamplifier:

SVANTEK SV 18 (Serial No.:C132231)

Submitted by:

Customer:

Acuity Sustainability Consulting Limited

Address:

Unit E, 12/F., Ford Glory Plaza,

Nos. 37-39 Wing Hong Street,

Cheung Sha Wan, Kowloon, 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: 27 July 2023

Date of calibration: 3 August 2023

Date of NEXT calibration: 2 August 2024

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 3 August 2023

Certificate No.: APJ23-049-CC001

(A+A) *L

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Calibration Precaution: 1.

- 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:

22.6°C

Air Pressure:

1006 hPa

Relative Humidity:

52.9 %

3. Calibration Equipment:

Type

Serial No.

Calibration Report Number

Traceable to

Multifunction Calibrator

B&K 4226

2288467

AV220061

HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Sett	ing of Ur	nit-under-t	est (UUT)	Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25.0-124.2	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Sett	ing of U	Jnit-under-t	est (UUT)	App	lied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
25.0-124.2	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. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25.0.124.2	JD A	CDI	Fast	0.1	1000	94.0	Ref
25.0-124.2	dBA	SPL	Slow	94	1000	94.0	±0.3

Certificate No.: APJ23-049-CC001



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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.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB										
					31.5	94.3	±2.0										
					63	94.2	±1.5										
					125	94.1	±1.5										
					250	94.1	±1.4										
25.0-124.2	dB	SPL SPL	Fast	94	500	94.0	±1.4										
															1000	94.0	Ref
					2000	93.7	±1.6										
					4000	93.1	±1.6										
					8000	91.9	+2.1; -3.1										

A-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	55.3	-39.4 ±2.0
					63	68.2	-26.2 ±1.5
					125	78.0	-16.1 ±1.5
					250	85.4	-8.6 ±1.4
25.0-124.2	dBA	SPL	Fast	94	500	90.8	-3.2 ±1.4
					1000	94.0	Ref
					2000	94.9	+1.2 ±1.6
					4000	94.1	+1.0 ±1.6
					8000	90.9	-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. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.3	-3.0 ±2.0
					63	93.3	-0.8 ±1.5
					125	93.9	-0.2 ±1.5
					250	94.0	-0.0 ± 1.4
25.0-124.2	dBC	SPL	Fast	94	500	94.0	-0.0 ±1.4
					1000	94.0	Ref
					2000	93.6	-0.2 ±1.6
					4000	92.4	-0.8 ±1.6
					8000	89.1	-3.0 +2.1: -3.1

Certificate No.: APJ23-049-CC001



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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:

31.5 Hz	± 0.05
63 Hz	± 0.05
125 Hz	± 0.05
250 Hz	± 0.05
500 Hz	± 0.05
1000 Hz	± 0.05
2000 Hz	± 0.05
4000 Hz	± 0.05
8000 Hz	± 0.10
1000 Hz	± 0.05
1000 Hz	± 0.05
	63 Hz 125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz 8000 Hz 1000 Hz

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.

Certificate No.: APJ23-049-CC001



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Certificate No. D224645E



CALIBRATION CERTIFICATE

Product : SOUND CALIBRATOR

Type : NC-75 Serial number : 35124528

Manufacturer : RION CO., LTD.

Calibration quantities : Sound pressure level (with reference standard microphone)

Calibration method : Measured by specified secondary standard microphone

according to JCSS calibration procedure specified by RION.

Ambient conditions : Temperature 23.9 °C, Relative humidity 49 %,

Static pressure 100.6 kPa

Calibration date : 02/11/2022 (DD/MM/YYYY)

Calibration location : 3-20-41 Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan

RION CO., LTD. Calibration Room

We hereby certify that the results of this calibration were as follows.

Issue date: 09/11/2022 (DD/MM/YYYY)

Junichi Kawamura
Manager
Quality Assurance Section,
Quality Assurance Department,
Environmental Instrument Division,

RION CO., LTD. 3-20-41 Higashimotomachi, Kokubunji,

Tokyo 185-8533, Japan

This certificate is based on article 144 of the Measurement Law and indicates the result of calibration in accordance with measurement standards traceable to Primary Measurement Standards (National Standards) which realizes the physical units of measurement according to the International System of Units (SI).

The accreditation symbol is attestation of which the result of calibration is traceable to Primary Measurement Standards (National Standards).

The certificate shall not be reproduced except in full, without the written approval of the issuing laboratory.

The calibration laboratory who issued this calibration certificate conforms to ISO/IEC 17025:2017.

This calibration certificate was issued by the calibration laboratory accredited by IAJapan who is a signatory to the Mutual Recognition Arrangement (MRA) of International Laboratory Accreditation Cooperation (ILAC) and Asia Pacific Accreditation Cooperation (APAC). This (These) calibration result(s) may be accepted internationally through ILAC/APAC MRA.



Certificate No. D224645E

CALIBRATION RESULT

1. Sound pressure level (with reference standard microphone)

Measured	Expanded
value	uncertainty *1
93.99 dB	0.09 dB

Specified secondary standard microphone:

Type

: 4160

Serial number : 2973341

Reference Sound pressure: 2×10⁻⁵ Pa

*1 Defines an interval estimated to have a level of confidence of approximately 95 %.

Coverage factor k=2

Calibration result is the calibration value in ambient conditions during calibration.

BE OUT OF JCSS CALIBRATION

1. Frequency

Measured value	Measurement uncertainty (k=2)
1000.0 Hz	$2.7 \times 10^{-4} \mathrm{Hz}$

Working measurement standard universal counter:

Type

: 53132A

Serial number : MY40005574

(JCSS Calibration Certificate No. 2208001889940)

2. Total distortion

Me	easured
	value
	0.2 %

Working measurement standard distortion meter:

Type

: VA-2230A

Serial number : 11076061

(A2LA Calibration Certificate No. 1502-03109)

- closing -

