



中国赛宝实验室计量检测中心
(工业和信息化部电子第五研究所计量检测中心)
CHINA CEPREI LABORATORY CALIBRATION & TESTING CENTRE

校准证书

CALIBRATION CERTIFICATE

证书编号: 2JB25006520-0001

Certificate No.



中国认可
国际互认
校准
CALIBRATION
CNAS L13344

委托单位:
Client

耕興股份有限公司/Sporton International Inc.

委托方地址:
Address

桃園市龜山區華亞一路52號/Huaya 1st Rd., Guishan Dist No. 52 Taoyuan City 333

仪器名称:
Description

多通道信號分析儀

型号/规格:
Model/Type

labCORE

制造商:
Manufacturer

HEAD acoustics

出厂编号:
Serial No.

77000342

管理号:
Asset No.

/

接收日期:
Rec. Date

2025-07-28

校准日期:
Cal. Date

2025-07-29

签发日期:
App. Date

2025-08-01

建议校准周期:
Reference Cal. Period

12个月(12 months)

结论:
Conclusion

所校准项目符合技术要求(The calibrated items meet the technical requirements)

校准:
Calibrated by

曹慧慧

曹慧慧

核验:
Inspected by

徐俊

徐俊

签发:
Approved by

胡爱军

胡爱军

印章:
Stamp



扫一扫查真伪

赛宝计量检测中心

总部地址: 广州市增城区朱村街朱村大道西78号

实验室地址: 江苏省苏州市高新区泰山路601号

客服电话: 0512-68077103 传真: 0512-68076669

投诉电话: 0512-68026260/66719750、020-87236896

邮件: service-hd@ceprei.com

网址: www.ceprei-cal.com

CEPREI Calibration and Testing Centre

H.Q. Addr: No.78,Zhucun Avenue West,Zengcheng District,Guangzhou,China

Addr. of the Lab:No.601, Taishan Road, Hi-Tech District, Suzhou, Jiangsu, China

Service Tel: 0512-68077103 Fax: 0512-68076669

Complaint Tel: 0512-68078465/66719750、020-87236896

Email: service-hd@ceprei.com

Website: www.ceprei-cal.com

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说 明

DIRECTIONS

1. 本机构是国家市场监管总局授权建立的法定计量检定机构：“国家环境综合试验设备计量站”，国家国防科工局授权建立的“国防科技工业4412区域计量站”，本机构质量管理体系符合ISO/IEC 17025:2017标准的要求。

This laboratory is the legal metrological institute authorized by the State Administration for Market Regulation. It is the “Nation Metrology Station of Combined Environmental Testing Equipment”. It is the “No. 4412 Regional Metrology Station of Science, Technology and Industry for National Defense” authorized by the State Administration of Science, Technology and Industry for National Defense. The quality management system of this laboratory is in accordance with the ISO/IEC 17025:2017.

2. 本证书中的数据可溯源到国际单位制（SI）单位和/或社会公用计量标准。

The data of the certificate is traceable to the International system of Units (SI) and/or the public metrological standards.

3. 本次校准的技术依据及CNAS认可范围(Reference documents and CNAS accredited scopes):

■ JJF 1288-2011 多通道声分析仪校准规范: Sound pressure level:(20~130)dB; Voltage:1mV~100V; Frequency:1Hz~30kHz; Total distortion:(0.01~100)%

■ 详细内容请查看CNAS网站中注册编号为L13344的证书附件，超出范围的内容未被认可，其结果/结论所依据的合格评定活动不在认可范围内。(Please see the attachment of certificate No. L13344 at CNAS website for details, beyond which is not accredited, the conformity assessment activities on which the results/conclusions are based are outside the scope of accreditation.)

4. 本次校准所使用的主要测量标准及溯源性声明(The main measurement standards used during the calibration and traceability declaration):

名 称 (Description)	证书号/有效期/溯源单位 (Certificate No./Due Date/Traceability to)	技术指标 (Specification)	测量范围 (Measuring Range)
信号发生器(338511)	4JC25000172-0001/2026-03-30/赛宝(苏州)	频率响应: 1Hz~200KHz±0.2dB	频率: 1Hz~200kHz; 电压: 0.1V~15V

计量溯源性声明(Metrological Traceability Declaration):

被校准器具 Instrument	设备名称 Standard Name	外部机构/溯源证书编号 Institute/Certificate No.
多通道信号分析仪	信号发生器	中国计量院/SPss2023-01464

5. 校准地点(The calibration place):

苏州市高新区泰山路601号2号楼二楼2205室

6. 环境条件(Environmental conditions):

温度(Temperature): 21.6°C 相对湿度(Relative Humidity): 45% 其它(Other): /

7. 本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度评定与表示》评定，由合成标准不确定度乘以包含概率约为95%时对应的包含因子 k 得到。

The extended uncertainty given in this certificate is evaluated according to JJF1059.1-2012 “Evaluation and Expression of Uncertainty in Measurement”, and is calculated by multiplying the combined standard uncertainty by the coverage factor k which corresponding to the coverage probability about 95%.

8. 证书中“P”、“合格”代表“测量结果在允许范围内”，“F”、“不合格”代表“测量结果不在允许范围内”，“N/A”代表“不适用或技术指标暂时无法确认等”。本证书报告的结论仅供参考，使用人员应结合实际测量的要求合理使用，如考虑测量结果测量不确定度的影响等。

"P" and "Pass" in this certificate stand for "Low Limit≤the measured value ≤High Limit", "F" and "Fail" stand for "the measured value < Low Limit or the measured value > High Limit", "N/A" stands for "Not Applicable or The technical specification has not been confirmed etc". The conclusions of this certificate are for reference only. Users should use them reasonably according to the actual measurement requirements, such as considering the impact of measurement uncertainty, etc.

9. 建议校准周期是本实验室依据本证书报告的技术依据和仪器设备常规使用条件给出的建议，供委托方参考。委托方可以根据实际使用情况自行决定样品的校准周期。

The reference calibration period is based on the reference documents and normal operating conditions of the calibrated instrument. It is only for reference. The client may decide the calibration period of the instrument according to the actual use.

注: 1.本证书未经本机构书面授权, 不得部分复制。(The certificate shall not be partly reproduced without written approval of the laboratory.)

2.本次校准结果仅与被校物有关。(The results are only related to the items calibrated.)

3.“委托方”、“委托方联络信息”由委托方提供, “制造厂”、“型号规格”、“出厂编号”以及“设备编号”为仪器上标注, 委托方对上面内容如有异议, 须在收到证书后二十个工作日内提出。

The information Client and Contact Information are provided by client, and the Manufacturer, Model/Type, Serial No. and Equipment No. are marked on the items. Client shall submit any objection within 20 working days after receiving the certificate for the information above.





证书编号(Certificate No.): 2JB25006520-0001

1 外观与工作正常性检查 (Appearance and Function Check)

无影响证书中校准结果准确度的因素和缺陷。

There are no factor and defect that affect the calibration result accuracy of the certificate.

2 线性度(Linearity)

频率(Frequency): 1000 Hz

通道 (Channel)	标准值 (Reference)	示值 (Indication)	误差 (Error)	允许误差 (Limit)	结论 (Pass/Fail)	U ($k=2$)
	(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)
CH1	94.0	94.0	0.0	± 1.1	P	0.2
	84.0	84.0	0.0	± 1.1	P	0.2
	74.0	74.0	0.0	± 1.1	P	0.2
	64.0	64.0	0.0	± 1.1	P	0.2
	54.0	54.0	0.0	± 1.1	P	0.2
	44.0	44.0	0.0	± 1.1	P	0.2
	34.0	34.0	0.0	± 1.1	P	0.2
CH2	94.0	94.0	0.0	± 1.1	P	0.2
	84.0	84.0	0.0	± 1.1	P	0.2
	74.0	74.0	0.0	± 1.1	P	0.2
	64.0	64.0	0.0	± 1.1	P	0.2
	54.0	54.0	0.0	± 1.1	P	0.2
	44.0	44.0	0.0	± 1.1	P	0.2
	34.0	34.0	0.0	± 1.1	P	0.2

CEPREI



证书编号(Certificate No.): 2JB25006520-0001

3 A计权特性 (A Weighting Characteristic)

1 通道(Channel 1)

频率 (Frequency)	示值 (Indication)	标准值 (Reference)	误差 (Error)	允许误差 (Limit)	结论 (Pass/Fail)	U ($k=2$)
(Hz)	(dB)	(dB)	(dB)	(dB)		(dB)
20	-50.6	-50.5	-0.1	± 2.5	P	0.2
25	-44.8	-44.7	-0.1	-2.0,+2.5	P	0.2
31.5	-39.2	-39.4	0.2	± 2.0	P	0.2
40	-34.6	-34.6	0.0	± 1.5	P	0.2
50	-30.2	-30.2	0.0	± 1.5	P	0.2
63	-26.2	-26.2	0.0	± 1.5	P	0.2
80	-22.5	-22.5	0.0	± 1.5	P	0.2
100	-19.1	-19.1	0.0	± 1.5	P	0.2
125	-16.1	-16.1	0.0	± 1.5	P	0.2
160	-13.3	-13.4	0.1	± 1.5	P	0.2
200	-10.9	-10.9	0.0	± 1.5	P	0.2
250	-8.5	-8.6	0.1	± 1.4	P	0.2
315	-6.6	-6.6	0.0	± 1.4	P	0.2
400	-4.8	-4.8	0.0	± 1.4	P	0.2
500	-3.2	-3.2	0.0	± 1.4	P	0.2
630	-1.9	-1.9	0.0	± 1.4	P	0.2
800	-0.8	-0.8	0.0	± 1.4	P	0.2
1000	0.0	0.0	0.0	± 1.1	P	0.2
1250	0.6	0.6	0.0	± 1.4	P	0.2
1600	1.0	1.0	0.0	± 1.6	P	0.2
2000	1.2	1.2	0.0	± 1.6	P	0.2
2500	1.3	1.3	0.0	± 1.6	P	0.2
3150	1.2	1.2	0.0	± 1.6	P	0.2
4000	1.0	1.0	0.0	± 1.6	P	0.2
5000	0.5	0.5	0.0	± 2.1	P	0.2
6300	0.0	-0.1	0.1	-2.6,+2.1	P	0.2
8000	-1.0	-1.1	0.1	-3.1,+2.1	P	0.2
10000	-2.5	-2.5	0.0	-3.6,+2.6	P	0.2
12500	-4.3	-4.3	0.0	-6.0,+3.0	P	0.2
16000	-6.6	-6.6	0.0	-17.0,+3.5	P	0.2
20000	-9.3	-9.3	0.0	$-\infty$,+4.0	P	0.2



证书编号(Certificate No.): 2JB25006520-0001

3 A计权特性 (A Weighting Characteristic)

2 通道(Channel 2)

频率 (Frequency)	示值 (Indication)	标准值 (Reference)	误差 (Error)	允许误差 (Limit)	结论 (Pass/Fail)	U ($k=2$)
(Hz)	(dB)	(dB)	(dB)	(dB)		(dB)
20	-50.6	-50.5	-0.1	± 2.5	P	0.2
25	-44.8	-44.7	-0.1	-2.0,+2.5	P	0.2
31.5	-39.2	-39.4	0.2	± 2.0	P	0.2
40	-34.6	-34.6	0.0	± 1.5	P	0.2
50	-30.2	-30.2	0.0	± 1.5	P	0.2
63	-26.2	-26.2	0.0	± 1.5	P	0.2
80	-22.5	-22.5	0.0	± 1.5	P	0.2
100	-19.1	-19.1	0.0	± 1.5	P	0.2
125	-16.1	-16.1	0.0	± 1.5	P	0.2
160	-13.3	-13.4	0.1	± 1.5	P	0.2
200	-10.9	-10.9	0.0	± 1.5	P	0.2
250	-8.6	-8.6	0.0	± 1.4	P	0.2
315	-6.6	-6.6	0.0	± 1.4	P	0.2
400	-4.9	-4.8	-0.1	± 1.4	P	0.2
500	-3.2	-3.2	0.0	± 1.4	P	0.2
630	-1.9	-1.9	0.0	± 1.4	P	0.2
800	-0.8	-0.8	0.0	± 1.4	P	0.2
1000	0.0	0.0	0.0	± 1.1	P	0.2
1250	0.6	0.6	0.0	± 1.4	P	0.2
1600	1.0	1.0	0.0	± 1.6	P	0.2
2000	1.2	1.2	0.0	± 1.6	P	0.2
2500	1.3	1.3	0.0	± 1.6	P	0.2
3150	1.2	1.2	0.0	± 1.6	P	0.2
4000	1.0	1.0	0.0	± 1.6	P	0.2
5000	0.5	0.5	0.0	± 2.1	P	0.2
6300	-0.1	-0.1	0.0	-2.6,+2.1	P	0.2
8000	-1.1	-1.1	0.0	-3.1,+2.1	P	0.2
10000	-2.5	-2.5	0.0	-3.6,+2.6	P	0.2
12500	-4.3	-4.3	0.0	-6.0,+3.0	P	0.2
16000	-6.6	-6.6	0.0	-17.0,+3.5	P	0.2
20000	-9.3	-9.3	0.0	$-\infty$,+4.0	P	0.2



证书编号(Certificate No.): 2JB25006520-0001

4 C计权特性 (C Weighting Characteristic)

1 通道(Channel 1)

频率 (Frequency)	示值 (Indication)	标准值 (Reference)	误差 (Error)	允许误差 (Limit)	结论 (Pass/Fail)	U ($k=2$)
(Hz)	(dB)	(dB)	(dB)	(dB)		(dB)
20	-6.3	-6.2	-0.1	± 2.5	P	0.2
25	-4.5	-4.4	-0.1	-2.0,+2.5	P	0.2
31.5	-3.0	-3.0	0.0	± 2.0	P	0.2
40	-2.0	-2.0	0.0	± 1.5	P	0.2
50	-1.3	-1.3	0.0	± 1.5	P	0.2
63	-0.8	-0.8	0.0	± 1.5	P	0.2
80	-0.5	-0.5	0.0	± 1.5	P	0.2
100	-0.3	-0.3	0.0	± 1.5	P	0.2
125	-0.2	-0.2	0.0	± 1.5	P	0.2
160	-0.1	-0.1	0.0	± 1.5	P	0.2
200	0.0	0.0	0.0	± 1.5	P	0.2
250	0.0	0.0	0.0	± 1.4	P	0.2
315	0.0	0.0	0.0	± 1.4	P	0.2
400	0.0	0.0	0.0	± 1.4	P	0.2
500	0.0	0.0	0.0	± 1.4	P	0.2
630	0.0	0.0	0.0	± 1.4	P	0.2
800	0.0	0.0	0.0	± 1.4	P	0.2
1000	0.0	0.0	0.0	± 1.1	P	0.2
1250	0.0	0.0	0.0	± 1.4	P	0.2
1600	-0.1	-0.1	0.0	± 1.6	P	0.2
2000	-0.2	-0.2	0.0	± 1.6	P	0.2
2500	-0.3	-0.3	0.0	± 1.6	P	0.2
3150	-0.5	-0.5	0.0	± 1.6	P	0.2
4000	-0.8	-0.8	0.0	± 1.6	P	0.2
5000	-1.3	-1.3	0.0	± 2.1	P	0.2
6300	-2.1	-2.0	-0.1	-2.6,+2.1	P	0.2
8000	-3.0	-3.0	0.0	-3.1,+2.1	P	0.2
10000	-4.4	-4.4	0.0	-3.6,+2.6	P	0.2
12500	-6.2	-6.2	0.0	-6.0,+3.0	P	0.2
16000	-8.5	-8.5	0.0	-17.0,+3.5	P	0.2
20000	-11.2	-11.2	0.0	$-\infty$,+4.0	P	0.2



证书编号(Certificate No.): 2JB25006520-0001

4 C计权特性 (C Weighting Characteristic)

2 通道(Channel 2)

频率 (Frequency)	示值 (Indication)	标准值 (Reference)	误差 (Error)	允许误差 (Limit)	结论 (Pass/Fail)	U ($k=2$)
(Hz)	(dB)	(dB)	(dB)	(dB)		(dB)
20	-6.3	-6.2	-0.1	± 2.5	P	0.2
25	-4.5	-4.4	-0.1	-2.0,+2.5	P	0.2
31.5	-3.0	-3.0	0.0	± 2.0	P	0.2
40	-2.0	-2.0	0.0	± 1.5	P	0.2
50	-1.3	-1.3	0.0	± 1.5	P	0.2
63	-0.8	-0.8	0.0	± 1.5	P	0.2
80	-0.5	-0.5	0.0	± 1.5	P	0.2
100	-0.3	-0.3	0.0	± 1.5	P	0.2
125	-0.2	-0.2	0.0	± 1.5	P	0.2
160	-0.1	-0.1	0.0	± 1.5	P	0.2
200	0.0	0.0	0.0	± 1.5	P	0.2
250	0.0	0.0	0.0	± 1.4	P	0.2
315	0.0	0.0	0.0	± 1.4	P	0.2
400	0.0	0.0	0.0	± 1.4	P	0.2
500	0.0	0.0	0.0	± 1.4	P	0.2
630	0.0	0.0	0.0	± 1.4	P	0.2
800	0.0	0.0	0.0	± 1.4	P	0.2
1000	0.0	0.0	0.0	± 1.1	P	0.2
1250	0.0	0.0	0.0	± 1.4	P	0.2
1600	-0.1	-0.1	0.0	± 1.6	P	0.2
2000	-0.2	-0.2	0.0	± 1.6	P	0.2
2500	-0.3	-0.3	0.0	± 1.6	P	0.2
3150	-0.5	-0.5	0.0	± 1.6	P	0.2
4000	-0.8	-0.8	0.0	± 1.6	P	0.2
5000	-1.3	-1.3	0.0	± 2.1	P	0.2
6300	-2.0	-2.0	0.0	-2.6,+2.1	P	0.2
8000	-3.0	-3.0	0.0	-3.1,+2.1	P	0.2
10000	-4.4	-4.4	0.0	-3.6,+2.6	P	0.2
12500	-6.2	-6.2	0.0	-6.0,+3.0	P	0.2
16000	-8.5	-8.5	0.0	-17.0,+3.5	P	0.2
20000	-11.2	-11.2	0.0	$-\infty$,+4.0	P	0.2



证书编号(Certificate No.): 2JB25006520-0001

5 Z计权特性 (C Weighting Characteristic)

1 通道(Channel 1)

频率 (Frequency)	示值 (Indication)	标准值 (Reference)	误差 (Error)	允许误差 (Limit)	结论 (Pass/Fail)	U ($k=2$)
(Hz)	(dB)	(dB)	(dB)	(dB)		(dB)
20	-0.1	0.0	-0.1	± 2.5	P	0.2
25	-0.1	0.0	-0.1	-2.0,+2.5	P	0.2
31.5	0.0	0.0	0.0	± 2.0	P	0.2
40	0.0	0.0	0.0	± 1.5	P	0.2
50	0.0	0.0	0.0	± 1.5	P	0.2
63	0.0	0.0	0.0	± 1.5	P	0.2
80	0.0	0.0	0.0	± 1.5	P	0.2
100	0.0	0.0	0.0	± 1.5	P	0.2
125	0.0	0.0	0.0	± 1.5	P	0.2
160	0.0	0.0	0.0	± 1.5	P	0.2
200	0.0	0.0	0.0	± 1.5	P	0.2
250	0.0	0.0	0.0	± 1.4	P	0.2
315	0.0	0.0	0.0	± 1.4	P	0.2
400	0.0	0.0	0.0	± 1.4	P	0.2
500	0.0	0.0	0.0	± 1.4	P	0.2
630	0.0	0.0	0.0	± 1.4	P	0.2
800	0.0	0.0	0.0	± 1.4	P	0.2
1000	0.0	0.0	0.0	± 1.1	P	0.2
1250	0.0	0.0	0.0	± 1.4	P	0.2
1600	0.0	0.0	0.0	± 1.6	P	0.2
2000	0.0	0.0	0.0	± 1.6	P	0.2
2500	0.0	0.0	0.0	± 1.6	P	0.2
3150	0.0	0.0	0.0	± 1.6	P	0.2
4000	0.0	0.0	0.0	± 1.6	P	0.2
5000	0.0	0.0	0.0	± 2.1	P	0.2
6300	0.0	0.0	0.0	-2.6,+2.1	P	0.2
8000	0.0	0.0	0.0	-3.1,+2.1	P	0.2
10000	0.0	0.0	0.0	-3.6,+2.6	P	0.2
12500	0.0	0.0	0.0	-6.0,+3.0	P	0.2
16000	0.0	0.0	0.0	-17.0,+3.5	P	0.2
20000	0.0	0.0	0.0	$-\infty$,+4.0	P	0.2



证书编号(Certificate No.): 2JB25006520-0001

5 Z计权特性 (Z Weighting Characteristic)

2 通道(Channel 2)

频率 (Frequency)	示值 (Indication)	标准值 (Reference)	误差 (Error)	允许误差 (Limit)	结论 (Pass/Fail)	U (k=2)
(Hz)	(dB)	(dB)	(dB)	(dB)		(dB)
20	-0.1	0.0	-0.1	±2.5	P	0.2
25	-0.1	0.0	-0.1	-2.0,+2.5	P	0.2
31.5	0.0	0.0	0.0	±2.0	P	0.2
40	0.0	0.0	0.0	±1.5	P	0.2
50	0.0	0.0	0.0	±1.5	P	0.2
63	0.0	0.0	0.0	±1.5	P	0.2
80	0.0	0.0	0.0	±1.5	P	0.2
100	0.0	0.0	0.0	±1.5	P	0.2
125	0.0	0.0	0.0	±1.5	P	0.2
160	0.0	0.0	0.0	±1.5	P	0.2
200	0.0	0.0	0.0	±1.5	P	0.2
250	0.0	0.0	0.0	±1.4	P	0.2
315	0.0	0.0	0.0	±1.4	P	0.2
400	0.0	0.0	0.0	±1.4	P	0.2
500	0.0	0.0	0.0	±1.4	P	0.2
630	0.0	0.0	0.0	±1.4	P	0.2
800	0.0	0.0	0.0	±1.4	P	0.2
1000	0.0	0.0	0.0	±1.1	P	0.2
1250	0.0	0.0	0.0	±1.4	P	0.2
1600	0.0	0.0	0.0	±1.6	P	0.2
2000	0.0	0.0	0.0	±1.6	P	0.2
2500	0.0	0.0	0.0	±1.6	P	0.2
3150	0.0	0.0	0.0	±1.6	P	0.2
4000	0.0	0.0	0.0	±1.6	P	0.2
5000	0.0	0.0	0.0	±2.1	P	0.2
6300	0.0	0.0	0.0	-2.6,+2.1	P	0.2
8000	0.0	0.0	0.0	-3.1,+2.1	P	0.2
10000	0.0	0.0	0.0	-3.6,+2.6	P	0.2
12500	0.0	0.0	0.0	-6.0,+3.0	P	0.2
16000	0.0	0.0	0.0	-17.0,+3.5	P	0.2
20000	0.0	0.0	0.0	-∞,+4.0	P	0.2



中国认可
国际互认
校准
CALIBRATION
CNAS L0134

校准证书编号:

2026D51-10-6646396001

Calibration certificate series No.



上海市计量测试技术研究院有限公司

Shanghai Institute of Measurement and Testing Technology Co., Ltd.

华东国家计量测试中心

National Center of Measurement and Testing for East China

校准证书

Calibration Certificate

委托者

Customer

Sporton International Inc.

联络信息

Contact Information

/

器具名称

Name of Instrument

多通道声分析仪

制造厂

Manufacturer

Head Acoustics

型号/规格

Model/Specification

labCORE

器具编号

No. of Instrument

77000342

器具准确度

Instrument Accuracy

/

批准人

Approved by

安兆亮

(机构校准专用章)

核验员

Checked by

陈文王

校准员

Calibrated by

杨易宁

发布日期

Issue date

2026

年

08

月

19

日

Year

Month

Day



地址: 上海市张衡路1500号(总部)

Address No.1500 Zhangheng Road, Shanghai(headquarter)

实验室地址: 上海市张衡路1500号

Lab Address: No.1500, Zhangheng Road, Shanghai, China

咨询电话: 800-820-5172

Inquire line

投诉电话: 021-50798262

Complaints line

网址: www.simt.com.cn

Website



校准证书编号:

2026D51-10-6646396001

Calibration certificate series No.



本次校准所依据的技术规范(代号、名称):

Reference documents for the calibration (code、name)

JJF 1288-2011《多通道声分析仪校准规范》

本次校准所使用的测量设备(含标准物质):

Main measurement instruments used in this calibration

名称 Name	型号 规格 Model	编号 Number	测量范围 Measurement range	不确定度或准确度等级或最大允许误差 Uncertainty/Accuracy Class/ Maximum permissible error	溯源机构名称 Name of traceability institution	证书编号 有效期限 Certificate No. /Due date
正弦/噪声发生器	1054	2515963	2Hz~200kHz	幅频特性:MPE: ±0.2dB; 频率MPE: ±0.25%	SIMT	2026F00-10-6384031001 / 2027-03-03
数字多用表	8508A	900151275	0.01V~1000V	MPE:±0.2%	NIM	DCsy2026-01498/ 2027-06-08
频率计数器	E312A	87110803	10 Hz~10 MHz	MPE:±0.01%	SIMT	2026F34-10-6486212001 / 2027-05-11
多通道声分析仪	3160-A-042	3160-107018	混响时间: 0.01s~30s 频率: 10Hz~50kHz 声压级: 1dB~140dB	混响时间: ±5%, 频率响应: ±0.2dB	NIM	LSsx2026-06844/ 2027-05-11
/	/	/	/	/	/	/

以上测量设备的量值溯源至国家计量基准/社会公用计量标准。

Quantity values of above measurement instruments are traced to the National Primary Standards of P.R. China / the Measurement Standard for Public Service.

其他校准信息:

Calibration Information

地点: 张衡路1500号机械楼203室

Location

温度: 21.5℃;

Ambient temperature

湿度: 54.4%RH;

Humidity

其他: 气压: 101.5 kPa

Others

受样日期 2026年08月11日

Received date

校准日期 2026年08月18日

Date for calibration

备注: /

Note:

收费标准可通过本公司官方网站(www.simt.com.cn)>客户服务>办事指南>收费标准>委托计量服务收费标准进行查询,如有疑问可致电800-820-5172问询。

校准证书续页专用

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校准证书编号:

2026D51-10-6646396001

Calibration certificate series No.



校准结果/说明:

Results of calibration and additional explanation

输入通道: MIC 1

一、 频率计权和频率响应:

频率 /Hz	频率计权和频率响应/dB			频率/Hz	频率计权和频率响应/dB		
	A	C	L		A	C	L
10	-68.3	-14.5	-0.2	500	-3.3	-0.1	0.0
12.5	-63.0	-11.3	-0.1	630	-1.9	0.1	0.0
16	-56.2	-8.4	0.0	800	-0.7	0.0	0.0
20	-50.6	-6.2	0.0	1000	0.1	0.1	0.0
25	-44.7	-4.5	0.0	1250	0.7	-0.1	0.0
31.5	-39.4	-3.0	0.0	1600	1.0	-0.1	0.0
40	-34.6	-1.9	0.0	2000	1.2	-0.2	0.0
50	-30.2	-1.3	0.0	2500	1.3	-0.4	0.0
63	-26.2	-0.7	0.0	3150	1.1	-0.5	0.0
80	-22.6	-0.6	0.0	4000	1.1	-0.8	0.0
100	-19.1	-0.4	0.0	5000	0.4	-1.2	0.0
125	-16.1	-0.2	0.0	6300	-0.1	-2.1	0.0
160	-13.5	-0.1	0.0	8000	-1.1	-2.9	0.0
200	-10.9	-0.1	0.0	10000	-2.6	-4.4	0.0
250	-8.7	0.0	0.0	12500	-4.2	-6.2	0.0
315	-6.7	0.0	0.0	16000	-6.7	-8.6	0.0
400	-4.8	0.0	0.0	20000	-9.4	-11.3	-0.2

频率计权和频率响应校准值的扩展不确定度 $U=0.1\text{dB}(k=2)$

二、 级线性(1kHz)

起始点指示声级

120.0 dB。

起始点以上间隔10dB点的最大误差

0.0 dB;

起始点以下间隔10dB点的最大误差

0.0 dB。

上限以下5dB以内的1dB点的最大误差

0.0 dB;

下限以上5dB以内的1dB点的最大误差

0.0 dB。级线性校准值的扩展不确定度 $U=0.2\text{dB}(k=2)$ 三、 自生噪声: A 5.8 dB; C 5.3 dB; L 11.5 dB。自生噪声的扩展不确定度 $U=0.2\text{dB}(k=2)$

本证书提供的结果仅对本次被校的器具有效。未经本公司/中心批准, 部分采用本证书内容无效。

The data are valid only for the instrument(s). Partly using this report will not be admitted unless allowed by SIMT.

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校准结果/说明:

Results of calibration and additional explanation

四、 时间计权F和S

衰减速率: F 32.8 dB/s; S 4.1 dB/s。时间计权校准值的扩展不确定度 $U=0.1\text{dB/s}(k=2)$

五、 猝发音响应(A计权)

单个猝发音持续时间/ms	猝发音响应/dB	
	$L_{AFmax}-L_A$	$L_{ASmax}-L_A$
500	-0.1	-4.1
200	-1.0	-7.4
50	-5.0	-13.1
10	-11.1	-20.0

猝发音响应校准值的扩展不确定度 $U=0.2\text{dB}(k=2)$

六、 重复猝发音响应(A计权)

单个猝发音持续时间/ms	相邻单个猝发音之间间隔时间/ms	猝发音响应 $L_{AeqT}-L_A/\text{dB}$
500	2000	-6.9
200	800	-7.0
50	200	-7.1
10	40	-7.0

重复猝发音校准值的扩展不确定度 $U=0.2\text{dB}(k=2)$

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校准结果/说明:

Results of calibration and additional explanation

输入通道: MIC 2

一、 频率计权和频率响应:

频率 /Hz	频率计权和频率响应/dB			频率/Hz	频率计权和频率响应/dB		
	A	C	L		A	C	L
10	-68.3	-14.5	-0.2	500	-3.2	0.0	0.0
12.5	-63.0	-11.3	-0.1	630	-2.0	-0.1	0.0
16	-56.1	-8.5	0.0	800	-0.7	0.0	0.0
20	-50.5	-6.2	0.0	1000	-0.1	0.0	0.0
25	-44.7	-4.4	0.0	1250	0.6	0.1	0.0
31.5	-39.4	-2.9	0.0	1600	1.1	-0.1	0.0
40	-34.7	-2.0	0.0	2000	1.1	-0.2	0.0
50	-30.1	-1.3	0.0	2500	1.2	-0.4	0.0
63	-26.1	-0.8	0.0	3150	1.2	-0.4	0.0
80	-22.5	-0.4	0.0	4000	1.0	-0.9	0.0
100	-19.0	-0.2	0.0	5000	0.6	-1.3	0.0
125	-16.2	-0.2	0.0	6300	-0.1	-2.0	0.0
160	-13.4	0.0	0.0	8000	-1.1	-3.0	0.0
200	-11.0	-0.1	0.0	10000	-2.5	-4.5	0.0
250	-8.6	0.1	0.0	12500	-4.2	-6.1	0.0
315	-6.6	0.0	0.0	16000	-6.5	-8.4	0.0
400	-4.9	0.1	0.0	20000	-9.5	-11.5	-0.2

频率计权和频率响应校准值的扩展不确定度 $U=0.1\text{dB}(k=2)$

二、 级线性(1kHz)

起始点指示声级

120.0 dB。

起始点以上间隔10dB点的最大误差

0.0 dB;

起始点以下间隔10dB点的最大误差

0.0 dB。

上限以下5dB以内的1dB点的最大误差

0.0 dB;

下限以上5dB以内的1dB点的最大误差

0.0 dB。级线性校准值的扩展不确定度 $U=0.2\text{dB}(k=2)$ 三、 自生噪声: A 6.0 dB; C 5.3 dB; L 11.5 dB。自生噪声的扩展不确定度 $U=0.2\text{dB}(k=2)$

本证书提供的结果仅对本次被校的器具有效。未经本公司/中心批准, 部分采用本证书内容无效。

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校准结果/说明:

Results of calibration and additional explanation

四、 时间计权F和S

衰减速率: F 32.9 dB/s; S 4.2 dB/s。时间计权校准值的扩展不确定度 $U=0.1\text{dB/s}(k=2)$

五、 猝发音响应(A计权)

单个猝发音持续时间/ms	猝发音响应/dB	
	$L_{AFmax}-L_A$	$L_{ASmax}-L_A$
500	0.0	-4.1
200	-1.0	-7.4
50	-4.9	-13.3
10	-11.2	-19.9

猝发音响应校准值的扩展不确定度 $U=0.2\text{dB}(k=2)$

六、 重复猝发音响应(A计权)

单个猝发音持续时间/ms	相邻单个猝发音之间间隔时间/ms	猝发音响应 $L_{AeqT}-L_A/\text{dB}$
500	2000	-6.9
200	800	-7.0
50	200	-7.0
10	40	-7.0

重复猝发音校准值的扩展不确定度 $U=0.2\text{dB}(k=2)$

注: 自生噪声非我院CNAS授权范围。

校准结果内容结束

本证书提供的结果仅对本次被校的器具有效。未经本公司/中心批准, 部分采用本证书内容无效。

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