

校准证书

CALIBRATION CERTIFICATE



证书编号: JL2236363681

第 1 页, 共 4 页

Page 1 of 4 Pages

客户名称 Name of Customer	: 深圳市美格信测控技术有限公司
客户地址 Address of Customer	: 深圳市光明区玉塘街道田寮社区同仁路盛荟红星创智广场 1002
计量器具名称 Name of Instrument	: 自由场测量传声器套件
型号/规格 Type/Specification	: MPA 668-812
出厂编号 Serial No	: 221031010
资产编号 Asset No	: -----
制造单位 Manufacture	: MegaSig
校准依据 Calibrated in Accordance to	: JJG1019-2007 工作标准传声器（耦合腔比较法）检定规程

(校准专用章)
Stamp

批准人 : 张瑞纹
Approved by

签名 : 张瑞纹
Signature

校准日期 : 2022 年 12 月 21 日
Operation Date Year Month Day

核验员 : 胡琴
Checked by

建议复校日期: 2023 年 12 月 20 日
Suggested Recal.Date Year Month Day

校准员 : 龙晓峰
Calibrated by

签发日期 : 2022 年 12 月 21 日
Issue Date Year Month Day

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The relevant content and effectiveness is subject to the electronic version of the original report which was only applied for. When an electronic report and a paper report are applied for at the same time, the electronic report is only a copy of the paper report, and the relevant content and effectiveness is subject to the paper report.
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The QR code has the function of browsing and downloading complete report. Setting this function or not is chosen by the customer. The QR code and its copy enable anyone to scan and obtain the complete electronic version of the test report. Thus, if the owner of this report needs to restrict others from obtaining the content of the test report through the QR code, he shall cover or remove the QR code attached to the test report and its copies by himself. SMQ assumes no responsibility for the information leakage caused by the customer's selection of the QR code function of the test report (This clause applies to certificates with QR code attached) ..

获得的国家、省、市专业站 Establishment of Following Institutions

国家数字电子产品质量检验检测中心
National Digital Electronic Product Testing Center (NETC)
国家营养食品质量检验检测中心(广东)
National Nutrition Food Testing Center (Guangdong)
国家体育用品质量检验检测中心(广东)
National Sports Product Testing Center (Guangdong)
国家环保产品质量检验检测中心(广东)
National Environmental Product Testing Center (Guangdong)
国家分布式光伏发电系统质量检验检测中心(广东)
National Distributed Photovoltaic Power Generation System Testing Center (Guangdong)
国家电动汽车电池及充电系统产业计量测试中心
National Metrology Center for Electric Vehicle Battery and Charging System Industry
国家民用无人机产品质量检验检测中心(广东)
National Civil Unmanned Aerial Vehicle Product Testing Center (Guangdong)
国家高新技术计量站
National Hi-tech Metrology Station
国家医疗器械产业计量测试中心
National Metrology and Testing Center for Medical Device Industry
国家计量数据科学中心深圳分中心
National Metrology Data Science Center (Shenzhen)
国家城市能源计量中心(深圳)
National Urban Energy Measurement Center (Shenzhen)
中国轻工业联合会家具质量监督检测深圳站
Accredited Testing Station (Shenzhen) for Furniture by China National Light Industry Council (CNLIC)
广东省质量监督食品检验站(深圳)
Guangdong Quality Supervision and Inspection Institution for Food (Shenzhen)
广东省质量监督生态纺织服装产品检验站(深圳)
Guangdong Quality Supervision and Inspection Institution for Ecological Textile and Garment Products (Shenzhen)
广东省质量监督皮革制品检验站
Guangdong Quality Supervision and Inspection Institution for Leather Products
广东省质量监督家具检验站(深圳)
Guangdong Quality Supervision and Inspection Institution for Furniture Products (Shenzhen)
广东省质量监督学生用品检验站(深圳)
Guangdong Quality Supervision and Inspection Institution for Student's Articles (Shenzhen)
广东省质量监督自行车检验站
Guangdong Quality Supervision and Inspection Institution for Bicycle Quality
广东省质量监督钟表检验站(深圳)
Guangdong Quality Supervision and Inspection Institution for Horological Products (Shenzhen)
广东省质量监督节能环保产品(安全性能)检验站(深圳)
Guangdong Quality Supervision and Inspection Institution for Safety Performance of Environmental Protection and Energy Saving Products (Shenzhen)
广东省质量监督眼镜检验站(深圳)
Guangdong Quality Supervision and Inspection Institution for Eyewear Products (Shenzhen)
广东省质量监督电磁兼容检验站
Guangdong Quality Supervision and Inspection Institution for Electromagnetic Compatibility
广东省质量监督综合布线系统检验站
Guangdong Quality Supervision and Inspection Institution for Generic Cabling System
深圳市纤维纺织检验所
Shenzhen Quality Inspection Institution for Fiber and Textile
深圳市建材产品质量监督检验站
Shenzhen Quality Supervision and Inspection Institution for Building Materials
深圳市消防产品燃烧性能检测中心
Shenzhen Testing Center for Burning Behavior of Fire Protection Products

联系方式 Contact Information

联系电话 Contact Tel.: 0755-26941696 26941546 (龙珠) 27591789 (宝安) 82426246 (八卦岭) 28932280 (龙岗) 0769-21684525 (东莞)
传真电话 Fax No.: 0755-27591716 (宝安) 82408176 (八卦岭) 28932840 (龙岗) 0769-21684527 (东莞)
投诉及证书/报告真伪查询电话 Complaint Tel.: 400-900-8999 按5 Email: complaint@smq.com.cn

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CALIBRATION CERTIFICATE

证书编号: JL2236363681
Certificate No

第 2 页, 共 4 页
Page 2 of 4 Pages

校准用主要计量标准装置信息

Main Standard Devices Used

名称 Equipment Name	测量范围 Measuring Range	不确定度/准确度等级/ 最大允许误差 Uncertainty/Accuracy Class/ Maximum Permissible Error	计量标准考核证书号 Certificate No	有效期至 Due Date
_____	_____	_____	_____	_____

校准用主要标准器信息

Main Standards of Measurement Used

名称 Equipment Name	测量范围 Measuring Range	不确定度/准确度等级/ 最大允许误差 Uncertainty/Accuracy Class/ Maximum Permissible Error	设备编号 Equipment No	证书号/溯源单位 Certificate No/ Traceability to	有效期至 Due Date
1/2"标准电容传声器	(10~20k)Hz	U=0.05dB,k=2	SB14128/01	LSsx2022-08211/中国计量院	2023-09-13
结构振动测试分析系统	DC~51.2k	电平±0.01dB	SB14133	SXE202201017/广东省计量院	2023-08-21

附加说明

Appended Directions

委托日期:
Application Date

2022 年 12 月 15 日

校准地点:
Operation Location

本院声学龙珠实验室

环境条件:
Operation Environment

温度 22°C 相对湿度 30%

符合性及限制使用说明:
Statement of Compliance and Limitation

参见校准结果使用(Use referring to the results of Calibration)

校准结果

RESULTS OF CALIBRATION

证书编号: JL2236363681
Certificate No

第 3 页, 共 4 页
Page 3 of 4 Pages

1 外观检查: 工作正常
Appearance Check: Pass

2 灵敏度校准:
Calibration of Sensitivity

传声器灵敏度: -26.0 dB re 1 V/Pa
Ref. Sensitivity

等效灵敏度: 50.2 mV/Pa
Sensitivity

3 灵敏度频率响应特性 (参考频率1000 Hz, 参考声压级值94.0 dB): 见表1
Frequency Response of Sensitivity (Ref. 1000 Hz, 94.0 dB): See Table 1

表1 Table 1

声信号频率 Frequency	频率响应 Frequency Response	允许范围 M. P. R.
(Hz)	(dB)	(dB)
31.5	-0.3	±0.5
63	-0.1	±0.5
125	0.0	±0.5
250	+0.1	±0.5
500	0.0	±0.5
1000	0.0	0
2000	0.0	±0.5
4000	0.0	±0.5
8000	0.0	±1.25
12500	-0.1	±1.75
16000	-0.1	±2.0

附注 (Note):

声压级测量结果扩展不确定度:
Expanded Uncertainty of Sound Pressure Level:

- $U = 0.48$ dB, $k=2$ (20 Hz ~ <160 Hz)
- $U = 0.21$ dB, $k=2$ (160 Hz ~ <1250 Hz)
- $U = 0.25$ dB, $k=2$ (1250 Hz ~ <4000 Hz)
- $U = 0.50$ dB, $k=2$ (4000 Hz ~ <8000 Hz)

校准结果

RESULTS OF CALIBRATION

证书编号: JL2236363681
Certificate No

第 4 页, 共 4 页
Page 4 of 4 Pages

$U = 0.53 \text{ dB}, k=2 \text{ (8000 Hz} \sim \text{20000 Hz)}$

(依据JJF1059.1-2012测量不确定度评定与表示)
(According to JJF 1059.1-2012 Evaluation and Expression of Uncertainty
in easurement.)
