



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

SHEM-TRF-001 Rev. 02 Sep01, 2023

Report No.: SHCR250700193502

Page: 1 of 6

1 Cover Page

RF Exposure Evaluation Report

Application No.: SHCR2507001935HS
FCC ID: BEJV174NAA
Applicant: LG Electronics USA, Inc.
Address of Applicant: 111 Sylvan Avenue North Building Englewood Cliffs New Jersey 07632
United States
Manufacturer: LG Electronics USA, Inc.
Address of Manufacturer: 111 Sylvan Avenue North Building Englewood Cliffs New Jersey 07632
United States
Factory: LG Electronics USA, Inc.
Address of Factory: 111 Sylvan Avenue North Building Englewood Cliffs New Jersey 07632
United States
Equipment Under Test (EUT):
EUT Name: Microwave Oven
Model No.: LMV1751ST, LMV1756##, JNM3184##### (#: From A to Z, from 0 to 9 or blank for inventory control)
Trade Mark: LG
Standard(s) : FCC Rules 47 CFR §2.1091
KDB 447498 D04 interim General RF Exposure Guidance v01
Date of Receipt: 2025-07-29
Date of Test: 2025-08-01 to 2025-08-28
Date of Issue: 2025-08-29

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Member of the SGS Group (SGS SA)



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

SHEM-TRF-001 Rev. 02 Sep01, 2023

Report No.: SHCR250700193502

Page: 2 of 6

Revision Record			
Version	Description	Date	Remark
00	Add alternative Noise Filter	2025-08-29	Base on SHEM210300221201

Authorized for issue by:				
Tested By		Bill Wu		
		Bill Wu/Project Engineer		
Approved By		Parlam Zhan		
		Parlam Zhan / Reviewer		



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

SHEM-TRF-001 Rev. 02 Sep01, 2023

Report No.: SHCR250900243802

Page: 3 of 6

2 Contents

	Page
1 Cover Page	1
2 Contents	3
3 General Information.....	4
3.1 General Description of E.U.T.....	4
3.2 Test Location	4
3.3 Test Facility.....	4
4 Test Standards and Limits	5
5 FCC Radiofrequency radiation exposure limits	5
6 Measurement and Calculation	6
6.1 Calculation Formula	6
6.2 Maximum transmit power	6

3 General Information

3.1 General Description of E.U.T.

Power supply:	AC 120V 60Hz
---------------	--------------

3.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China.

Tel: +86 21 6191 5666

Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).
3. Sample source: sent by customer.

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6332.01)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

- **FCC (Designation Number: CN1301)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0020)**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory
Company Number: 8617A

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4 Test Standards and Limits

5 FCC Radiofrequency radiation exposure limits

According to §1.1310, radio frequency device shall be operated in a manner that ensure the public is not exposed to radio frequency energy level in excess of the Commission' guideline

Table 1 to § 1.1310(e)(1)–Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3–3.0	614	1.63	*(100)	≤6
3.0–30	1842/f	4.89/f	*(900/f ²)	<6
30–300	61.4	0.163	1.0	<6
300–1,500			f/300	<6
1,500–100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	<30
1.34–30	824/f	2.19/f	*(180/f ²)	<30
30–300	27.5	0.073	0.2	<30
300–1,500			f/1500	<30
1,500–100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

6 Measurement and Calculation

6.1 Calculation Formula

$$Pd = (Pout * G) / 4\pi R^2$$

Where:

Pd = Power density in W/m²

Pout = Output power to antenna in W

G = Antenna Gain in linear scale

$\pi = 3.14$

R = distance to the center of radiation of antenna (in meter) = 0.2m

6.2 Maximum transmit power

The power density was checked to ensure that the power is not greater than 1.0 mW/cm² at any location of the oven.

A microwave survey meter was placed on all sides, door and viewing, bottom, top and rear. The leakage microwave did not exceed the specified limits.

Reference to the original report SHEM210300221201 the maximum Leakage Microwave Observed: 0.47 mW/cm² < 1.0 mW/cm²

So, the device is to qualify for FCC SAR test exemption, the exemption report is in lieu of the SAR report.

-End of the Report-