

FCC RF EXPOSURE REPORT

For

wireless smart speaker

MODEL NUMBER: S59

REPORT NUMBER: 4792136987-1-RF-7

ISSUE DATE: July 15, 2026

FCC ID: SBVRM059

Prepared for

**SONOS, INC.
301 COROMAR DR. GOLETA, CA 93117, USA**

Prepared by

**UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch
Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan,
Guangdong, China**

Tel: +86 769 22038881

Fax: +86 769 33244054

Website: www.ul.com

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	June 15, 2026	Initial Issue	Fanny Huang
V1	July 15, 2026	Updated section 4	Fanny Huang

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	4
2. TEST METHODOLOGY	5
3. FACILITIES AND ACCREDITATION	5
4. REQUIREMENT	6

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: SONOS, INC.
Address: 301 COROMAR DR. GOLETA, CA 93117, USA

Manufacturer Information

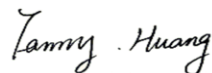
Company Name: SONOS, INC.
Address: 301 COROMAR DR. GOLETA, CA 93117, USA

EUT Information

EUT Name: wireless smart speaker
Model: S59
Sample Received Date: February 11, 2026
Sample Status: Normal
Sample ID: 9441057
Date of Tested: February 11, 2026 to July 14, 2026

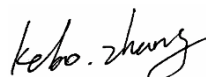
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
447498 D04 Interim General RF Exposure Guidance v01	PASS

Prepared By:



Fanny Huang
Project Engineer

Checked By:



Kebo Zhang
Operations Leader

Approved By:



Stephen Guo
Operations Manager

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 1 Subpart I, section 1.1307 and KDB 447498 D04 Interim General RF Exposure Guidance v01.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. VCCI (Registration No.: C-20202, G-20240, R-20248 and T-20202) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber E, the VCCI registration No. is G-20240 and R-20248 Shielding Room F, the VCCI registration No. is C-20202 and T-20202
---------------------------	---

Note:

All tests measurement facilities use to collect the measurement data are located at Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, China.

4. REQUIREMENT

LIMIT AND CALCULATION METHOD

According to 447498 D04 Interim General RF Exposure Guidance v01:

2.1.2 1-mW Test Exemption

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

2.1.3 SAR-Based Exemption

A more comprehensive exemption, considering a variable power threshold that depends on both the *separation distance* and power, is provided in § 1.1307(b)(3)(i)(B). This exemption is applicable to the frequency range between 300 MHz and 6 GHz, with *test separation distances* between 0.5 cm and 40 cm, and for all RF sources in fixed, mobile, and portable device exposure conditions.

Accordingly, a RF source is considered an *RF exempt device* if its available maximum time-averaged (matched conducted) power or its effective radiated power (ERP), whichever is greater, are below a specified threshold. This exemption threshold was derived based on general population 1-g SAR requirements and is detailed in Appendix C.

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}}(d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

2.1.4 MPE-Based Exemption

An alternative to the SAR-based exemption is provided in § 1.1307(b)(3)(i)(C), for a much wider frequency range, from 300 kHz to 100 GHz, applicable for separation distances greater or equal to $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power.¹⁰ For this case, a RF source is an RF exempt device if its ERP (watts) is no more than a frequency-dependent value, as detailed tabular form in Appendix B. These limits have been derived based on the basic specifications on Maximum Permissible Exposure (MPE) considered for the FCC rules in § 1.1310(e)(1).

TABLE 1 TO § 1.1307(b)(3)(i)(C)—SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.

Threshold ERP(W)= $19.2R^2$

R(m): the minimum separation distance from the body of a nearby person

CALCULATED RESULTS

For Single RF Source

ra0:

Operating Mode	Output power (dBm)			Max. Gain (dBi)	EIRP (dBm)	ERP (mW)	Limit Threshold-Option B (2.1.3) (mW)	Limit Threshold-Option C (2.1.4) (mW)	Ratio
	Chain 0	Chain 1	Total						
BLE	14	/	14.00	3.7	17.70	33	3060	/	0.01
BT	16	/	16.00	3.7	19.70	53	3060	/	0.02
WIFI2.4G	23.75	23.75	26.76	4.7	31.46	795	3060	/	0.26
WIFI5G-UNII-1	16.00	16.00	19.01	6.2	25.21	189	3060	/	0.06
WIFI5G-UNII-2A	17.00	16.75	19.89	6.1	25.99	226	3060	/	0.07
WIFI5G-UNII-2C	17.75	17.50	20.64	6.0	26.64	262	3060	/	0.09
WIFI5G-UNII-3	20.50	20.75	23.64	5.6	29.24	477	3060	/	0.16
WIFI6G-UNII-5	5.75	6.25	9.02	5.9	14.92	18	/	768	0.02
WIFI6G-UNII-6	7.75	7.75	10.76	3.9	14.66	17	/	768	0.02
WIFI6G-UNII-7	8.00	8.00	11.01	4.2	15.21	19	/	768	0.02
WIFI6G-UNII-8	8.00	8.50	11.27	3.6	14.87	17	/	768	0.02

ra1:

Operating Mode	Output power(dBm)			Max. Gain (dBi)	EIRP (dBm)	ERP (mW)	Limit Threshold-Option B (2.1.3) (mW)	Limit Threshold-Option C (2.1.4) (mW)	Ratio
	Chain 0	Chain 1	Total						
WIFI5G-UNII-1	14.25	15.25	17.79	6.2	23.99	142	3060	/	0.05
WIFI5G-UNII-2A	17.00	15.25	19.22	6.1	25.32	194	3060	/	0.06
WIFI5G-UNII-2C	17.00	16.75	19.89	6.0	25.89	220	3060	/	0.07
WIFI5G-UNII-3	20.75	20.75	23.76	5.6	29.36	490	3060	/	0.16
WIFI6G-UNII-5	11.75	12.25	15.02	5.9	20.92	70	/	768	0.09
WIFI6G-UNII-6	13.50	13.75	16.64	3.9	20.54	64	/	768	0.08
WIFI6G-UNII-7	13.50	13.75	16.64	4.2	20.84	69	/	768	0.09
WIFI6G-UNII-8	14.00	14.50	17.27	3.6	20.87	69	/	768	0.09

For Multiple RF Source

Simultaneously Transmission Conditions:

Condition	ra0 Mode	ra1 Mode
1	WIFI 2.4G	WIFI 5G-Low band
2	WIFI 2.4G	WIFI 5G-High band
3	WIFI 2.4G	WIFI 6G
4	WIFI 5G-Low band	WIFI 5G-High band
5	WIFI 5G-Low band	WIFI 6G
6	WIFI 5G-Low band	WIFI 5G-Low band
7	WIFI 5G-High band	WIFI 5G-Low band
8	WIFI 5G-High band	WIFI 6G
9	WIFI 6G	WIFI 5G-Low band
10	WIFI 6G	WIFI 5G-High band
11	BLE+WIFI 2.4G	OFF
12	BLE+ WIFI 2.4G	WIFI 5G-High band
13	BLE+ WIFI 2.4G	WIFI 6G
14	BLE+ WIFI 5G-Low band	WIFI 5G-Low band
15	BLE+ WIFI 5G-Low band	WIFI 6G
16	BLE+WIFI 6G	WIFI 5G-Low band
17	BLE+WIFI 6G	WIFI 5G-High band
18	BLE+ WIFI 5G-High band	WIFI 6G

The worst case of Simultaneously Transmission is condition 12:

$$\text{ra0 BLE} + \text{ra0 WIFI 2.4GHz} + \text{ra1 WIFI 5GHz UNII-3} = 0.01 + 0.26 + 0.16 = 0.43 < 1$$

Note:

1. The calculated distance is 20 cm.
2. The power comes from S59 FCC-ISED Max Powers.
3. The maximum calculations of above situations are less than the “1” limit.

END OF REPORT