

FCC RF EXPOSURE REPORT

for

Digital Media Device

MODEL NUMBER: SU8E72

REPORT NUMBER: 4792150437-1-RF-8

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Prepared for

Amazon.com Services LLC

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	May 25, 2026	Initial Issue	

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Amazon.com Services LLC
Address: 410 Terry Avenue N, Seattle, Washington, 98109 United States

Manufacturer Information

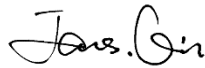
Company Name: Amazon.com Services LLC
Address: 410 Terry Avenue N, Seattle, Washington, 98109 United States

EUT Information

EUT Name: Digital Media Device
Model: SU8E72
Brand: Amazon
Sample Received Date: April 8, 2026
Sample Status: Normal
Sample ID: 9871647

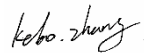
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
447498 D04 Interim General RF Exposure Guidance v01	PASS

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 and KDB 447498 D04 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
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Note 1:

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.

Note 2:

The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:

For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

4. REQUIREMENT

LIMIT AND CALCULATION METHOD

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

Operation Band	Freq. (MHz)	Ant. Gain (dBi)	Tune-up Limit (dBm)	ERP (dBm)	ERP (mW)	Separation Distance (cm)	Threshold-Option B (2.1.3) (mW)	Limit Threshold-Option C (2.1.4) (mW)	Ratio of ERP/limit
BT	2400	3.00	14.0	14.9	30.5	20	3060	\	0.0100
BLE	2400	3.00	8.5	9.4	8.6	20	3060	\	0.0028
Zigbee	2405	3.00	14.5	15.4	34.3	20	3060	\	0.0112
2.4GHz WiFi - SISO	2400	2.50	16.0	16.4	43.2	20	3060	\	0.0141
2.4GHz WiFi - CDD	2400	2.50	19.0	19.4	86.1	20	3060	\	0.0281
U-NII-1 - SISO	5150	4.50	20.0	22.4	171.8	20	3060	\	0.0561
U-NII-1 - CDD	5150	4.50	23.0	25.4	342.8	20	3060	\	0.1120
U-NII-2A - SISO	5250	5.00	20.0	22.9	192.8	20	3060	\	0.0630
U-NII-2A - CDD	5250	5.00	23.0	25.9	384.6	20	3060	\	0.1257
U-NII-2C - SISO	5470	5.00	20.0	22.9	192.8	20	3060	\	0.0630
U-NII-2C - CDD	5470	5.00	23.0	25.9	384.6	20	3060	\	0.1257
U-NII-3 - SISO	5725	4.50	21.5	23.9	242.7	20	3060	\	0.0793
U-NII-3 - CDD	5725	4.50	24.5	26.9	484.2	20	3060	\	0.1582
5.8GHz Radar	5730	6.00	7.5	11.4	13.6	20	3060	\	0.0045
U-NII-5	5925	5.00	9.5	12.35	17.18	20	\	768	0.0224
U-NII-6	6425	4.50	9.5	11.85	15.31	20	\	768	0.0199
U-NII-7	6525	4.50	10.5	12.85	19.28	20	\	768	0.0251
U-NII-8	6875	5.00	9.5	12.35	17.18	20	\	768	0.0224

Type of simultaneous transmission is as below:

1. BLE + Zigbee
2. 2.4GHz WiFi + Zigbee
3. 2.4GHz WiFi + BLE
4. BLE + Zigbee + 2.4 GHz WiFi
5. BT + Zigbee + 5 GHz WiFi
6. BT + Zigbee + 6 GHz WiFi

Worst simultaneous transmission calculation:

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

1. BLE + Zigbee = 0.0140
2. 2.4GHz WiFi + Zigbee = 0.0311
3. 2.4GHz WiFi + BLE = 0.0227
4. BLE + Zigbee + 2.4 GHz WiFi = 0.0339
5. BT + Zigbee + 5 GHz WiFi = 0.1622
6. BT + Zigbee + 6 GHz WiFi = 0.0463

Note:

1. The calculated distance is 20 cm.
2. The power comes from operation description.

END OF REPORT