

## RF EXPOSURE REPORT



**FCC Applicant:** Amp Fit, Inc.  
651 N. Broad St. Suite 308, Middletown, Delaware, United States 19709

**Manufacturer:** SRS Technology Co. Ltd.  
No. 39, Shalun, Anding Dist., Tainan City 745002

**Product Name:** amp

**Brand Name:** amp

**Model No.:** amp

**FCC ID** 2BG7RAMP

**Issue Date:** May 14, 2024

**Date of Test:** Jun. 05, 2024

**Date of EUT Received:** Sep. 11, 2024

Approved By

John Yeh

**We hereby certify that:**

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1091, KDB 447498 D01 v06, KDB 680106 D01v04.

The results of this report relate to the specific sample identified in this report.

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## Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2405000309E5	00	Original.	Aug. 06, 2024	Kimmy Chiou	
TESA2405000309E5	01	Add 127k	Aug. 19, 2024	Kimmy Chiou	*
TESA2405000309E5	02	Modify the evaluated frequency in page 8	Sep. 11, 2024	Kimmy Chiou	*

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.

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## 1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

### 1.1 Product Description

Product Name:	amp
Brand Name:	amp
Model No.:	amp

### 1.2 Evaluation site

Laboratory	Site Address		FCC Designation number	ISED Company Number	CAB Identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	<input type="checkbox"/>	No. 134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, 24803, Taiwan.	TW0027	4620A	TW3702
	<input checked="" type="checkbox"/>	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 333 Taiwan.	TW0028	4620E	
	<input type="checkbox"/>	1F, No. 8, Alley 15, Lane 120, Sec. 1, Nei Hu Road, Neihu District, Taipei City, 222 Taiwan.	TW0029	23862	

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## 2 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### 2.1 Standard Applicable

According to KDB 680106 D01 Wireless Power Transfer v04.

RF exposure potential to users and bystanders is expected to vary according to factors inherent to the design of individual systems, which generally requires different evaluation considerations to show compliance.

When exposure concerns arise; for example, due to evolving products and operations, RF exposure evaluation may be requested under the provisions of Sections 1.1307 (c) and (d) to determine compliance. Because of significant variations in design and operating characteristics, the procedures required to evaluate RF exposure compliance for wireless power transfer are considered according to the exposure potentials of individual implementations

The RF exposure requirements must be determined in conjunction with the device operating characteristics, according to the mobile and portable exposure requirements in Sections 2.1091 and 2.1093 of the rules. SAR and MPE limits do not cover the frequency range for wireless power transfer applications which operate below 100 kHz and 300 kHz respectively; therefore, RF exposure compliance needs to be determined with respect to Sections 1.1307 (c) and (d) of the FCC rules.

The RF exposure limits, as set forth in § 1.1310, do not cover the frequency range below 100 kHz for Specific Absorption Rate (SAR) and below 300 kHz for Maximum Permitted Exposure (MPE). In addition, present limitations of RF exposure evaluation systems prevent an accurate evaluation of SAR below 4 MHz. For these reasons, a specific MPE-based RF Exposure compliance procedure for devices operating in the aforementioned low-frequency ranges has been set in place. This procedure is applicable to Equipment Authorization of all RF devices, thus including, but not limited to, Part 18 and WPT devices.

Accordingly, for § 2.1091-Mobile devices, the MPE limits between 100 kHz to 300 kHz are to be considered the same as those at 300 kHz in Table 1 of § 1.1310, that is, 614 V/m and 1.63 A/m, for the electric field and magnetic field, respectively. For § 2.1093-Portable devices below 4 MHz and down to 100 kHz, the MPE limits in § 1.1310 (with the 300 kHz limit applicable all the way down to 100 kHz) can be used for the purpose of equipment authorization in lieu of SAR evaluations.

For all the cases mentioned above, E and H measurements should be made from all sides of the transmitter, along all the principal axes defined with respect to the orientation of the transmitting element (e.g., coil or antenna). When clearly demonstrated, symmetry considerations may be used to reduce the amount of testing. Furthermore, for “low-frequency” loop/coil emitting structures that lead to dominant H-field near-field emissions (i.e., with E/H ratio less than 1/10 of the 377-ohm free space wave impedance, typically frequencies less than 1 MHz), only H-field measurements are sufficient for demonstrating MPE limit compliance.

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## 2.2 Limits for Maximum Permissible Exposure (MPE)

For § 2.1091-Mobile devices, the MPE limits between 100 kHz to 300 kHz are to be considered the same as those at 300 kHz in Table 1 of § 1.1310, that is, 614 V/m and 1.63 A/m, for the electric field and magnetic field, respectively..

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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

## 2.3 The Worst Charging Condition:

Ancillary Equipment	Charging Condition	Verdict
Load	Full Loading	PASS
Load	99% Loading	PASS
Load	50% Loading	PASS
Load	1% Loading	PASS
Note: For Wireless Power Consortium Qi specification, a lower operating frequency or high duty cycle result in the transfer of a higher amount of power and charging current.		

## 2.4 Measurement Procedure:

E and H measurements should be made from all sides of the transmitter, along all the principal axes defined with respect to the orientation of the transmitting element (e.g., coil or antenna). The E-field and H-field strengths, at 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. Measurements should be made from all sides and the top of the primary/client pair, with the 20 cm measured from the center of the probe(s) to the edge of the device.

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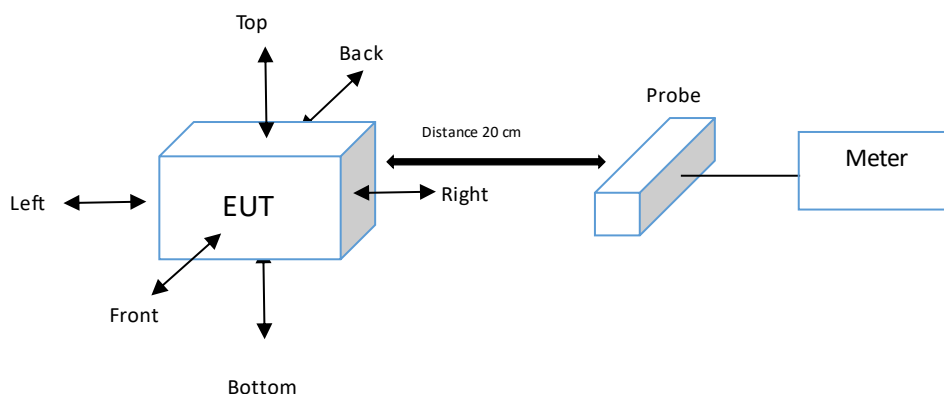
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## 2.5 Measurement Equipment Used:

Equipment List					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	MAGPy	8H3D-E3D	3062	Jun/21/2023	Jun/20/2024
SPEAG	MAGPy	DAS	3061	Jun/21/2023	Jun/20/2024
SPEAG	Software	MAGPy V2.0	N/A	Calibration not required	Calibration not required

## 2.6 Test Set-up:



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## 2.7 Maximum Permissible Exposure (MPE) Evaluation:

360K

Maximum Permissible Exposure								
Loading %	Test position	Test Distance	E-Field Strength (V/m)	E-Field Strength Limit (V/m)	Pass / Fail	H-Field Strength (A/m)	H-Field Strength Limit (A/m)	Pass / Fail
Full	Front	20 cm	11.7	614	Pass	0.12	1.63	Pass
	Back	20 cm	38.0	614	Pass	0.38	1.63	Pass
	Left	20 cm	13.9	614	Pass	0.14	1.63	Pass
	Right	20 cm	25.8	614	Pass	0.27	1.63	Pass
	Top	20 cm	91.6	614	Pass	0.71	1.63	Pass
	Bottom	20 cm	18.1	614	Pass	0.20	1.63	Pass
99	Front	20 cm	11.3	614	Pass	0.10	1.63	Pass
	Back	20 cm	32.0	614	Pass	0.34	1.63	Pass
	Left	20 cm	13.5	614	Pass	0.14	1.63	Pass
	Right	20 cm	25.0	614	Pass	0.26	1.63	Pass
	Top	20 cm	82.2	614	Pass	0.65	1.63	Pass
	Bottom	20 cm	17.6	614	Pass	0.17	1.63	Pass
50	Front	20 cm	10.7	614	Pass	0.10	1.63	Pass
	Back	20 cm	33.3	614	Pass	0.32	1.63	Pass
	Left	20 cm	13.1	614	Pass	0.12	1.63	Pass
	Right	20 cm	21.9	614	Pass	0.24	1.63	Pass
	Top	20 cm	77.7	614	Pass	0.63	1.63	Pass
	Bottom	20 cm	17.8	614	Pass	0.18	1.63	Pass
1	Front	20 cm	11.1	614	Pass	0.12	1.63	Pass
	Back	20 cm	35.7	614	Pass	0.34	1.63	Pass
	Left	20 cm	11.8	614	Pass	0.14	1.63	Pass
	Right	20 cm	21.2	614	Pass	0.21	1.63	Pass
	Top	20 cm	80.6	614	Pass	0.69	1.63	Pass
	Bottom	20 cm	15.0	614	Pass	0.16	1.63	Pass

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127.7K

Loading %	Test position	Test Distance	E-Field Strength (V/m)	E-Field Strength Limit (V/m)	Pass / Fail	H-Field Strength (A/m)	H-Field Strength Limit (A/m)	Pass / Fail
Full	Front	20 cm	11.5	614	Pass	0.11	1.63	Pass
	Back	20 cm	37.4	614	Pass	0.35	1.63	Pass
	Left	20 cm	13.7	614	Pass	0.13	1.63	Pass
	Right	20 cm	25.4	614	Pass	0.25	1.63	Pass
	Top	20 cm	90.2	614	Pass	0.66	1.63	Pass
	Bottom	20 cm	17.8	614	Pass	0.18	1.63	Pass
99	Front	20 cm	10.3	614	Pass	0.11	1.63	Pass
	Back	20 cm	33.6	614	Pass	0.33	1.63	Pass
	Left	20 cm	12.3	614	Pass	0.13	1.63	Pass
	Right	20 cm	22.8	614	Pass	0.24	1.63	Pass
	Top	20 cm	80.9	614	Pass	0.62	1.63	Pass
50	Bottom	20 cm	16.0	614	Pass	0.17	1.63	Pass
	Front	20 cm	11.0	614	Pass	0.11	1.63	Pass
	Back	20 cm	35.8	614	Pass	0.35	1.63	Pass
	Left	20 cm	13.1	614	Pass	0.13	1.63	Pass
	Right	20 cm	24.3	614	Pass	0.25	1.63	Pass
	Top	20 cm	86.3	614	Pass	0.66	1.63	Pass
1	Bottom	20 cm	17.1	614	Pass	0.18	1.63	Pass
	Front	20 cm	10.2	614	Pass	0.09	1.63	Pass
	Back	20 cm	33.2	614	Pass	0.29	1.63	Pass
	Left	20 cm	12.1	614	Pass	0.11	1.63	Pass
	Right	20 cm	22.5	614	Pass	0.20	1.63	Pass
	Top	20 cm	80.0	614	Pass	0.54	1.63	Pass
	Bottom	20 cm	15.8	614	Pass	0.15	1.63	Pass

~ End of Report ~

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