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RF EXPOSURE REPORT





Applicant: Samsara, Inc.

1 De Haro Street, San Francisco, CA, 94107, USA

Manufacturer: Jabil Circuit de Mexico, S. de R.L. de C.V.

Jun. 07, 2024

Av Guadalupe 420-A Guadalajara Technology Park, Carretera

a Nogales Km 13.5, Zapopan, Jal, 45010. MEXICO

Product Name: AT11

Brand Name:SamsaraModel No.:030-00007FCC ID2AIHD-AT11Date of EUT Received:May 06, 2024

Approved By_____

John Yeh

We hereby certify that:

Issue Date:

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §1.1307 & KDB 447498 D04 v01.

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除此只有验明,此就是结果既是为键与合善,同时此键与原况如何工,才就是主领于八司事而统可,不可如以推制。

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Revision History								
Report Number Revision Description Issue Date Revised By Re								
TESA2405000267ES	00	Original	Jun. 07, 2024	Kimmy Chiou				

Note:

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

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DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

Product Description

Product Name:	AT11
Brand Name:	Samsara
Model No.:	030-00007
Hardware Version:	01-01:02
Firmware Version:	N/A
EUT Series No.:	GRVU-9R4-FDF
Power Supply:	3Vdc

1.2 **Evaluation site**

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

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Antenna Information:

1.3.1 BT / WLAN 2.4GHz

Freq.	Peak Antenna
(MHz)	Gain (dBi)
2.4GHz	-1.44

Note: Antenna information is provided by the applicant.

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2 DETEMINATION OF MPE EXEMPTION

2.1 FCC

2.1.1 Single RF Source

As per §1.1307(b)(3)(i),

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

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

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$$
 and f is in GHz;

and

$$ERP_{20~cm}~(\text{mW}) = \begin{cases} 2040f & 0.3~\text{GHz} \le f < 1.5~\text{GHz} \\ \\ 3060 & 1.5~\text{GHz} \le f \le 6~\text{GHz} \end{cases}$$

d = the separation distance (cm);

Note: when 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

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Table 1 to § 1.1307(b)(3)(i)(C) -

Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)			Minii	mum Dis	tance	Threshold ERP (W)
fL		fH	λL / 2π		λΗ / 2π	
0.3	-	1.34	159m -		35.6m	1920 R ²
1.34	-	30	35.6m	35.6m -		3450 R ² /f ²
30	-	300	1.6m	-	159mm	3.83 R ²
300	-	1500	159mm	-	31.8mm	0.0128 R ² f
1500	-	100000	31.8mm -		0.5mm	19.2R ²

R= minimum separation distance in meter

f = frequency in MHz

2.1.2 Multiple RF Sources

In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

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

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Single RF Source Evaluation Results

Chain 0	Frequency (MHz)	Max. tune-up power (dBm)	Peak gain (dBi)	ERP (dBm)	ERP (W)	Permissible Minimum separation distance ($\mathcal{N}2\pi$) (m)	R = actual Minimum separation distance(m)	ERPth (W)	ERP/ERPth
BLE	2480	20	-1.44	16.41	0.044	0.0193	0.200	0.768	0.057

Note: For conservativeness, the lowest uplink frequency of each band is used to determine the minimum separation distance of that band. All the single RF source results (P or ERP) are less than their corresponding threshold (Pth or ERPth), so they are exempt from RF exposure testing.

~ End of Report ~

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