

FCC RF Exposure Report

FCC ID : 2AIHD1041
Equipment : HW-IG41
Model No. : 010-1041
Brand Name : Samsara
Applicant : Samsara Networks Inc.
Address : 1990 Alameda Street, San Francisco, CA
94103, United States
Standard : 47 CFR FCC Part 2.1091
Received Date : Sep. 01, 2020
Tested Date : Sep. 14 ~ Sep. 30, 2020

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


Along Chen / Assistant Manager

Approved by:


Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FA090103	Rev. 01	Initial issue	Oct. 20, 2020

1 MPE EVALUATION OF MOBILE DEVICES

1.1 LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

Frequency Range (MHz)	Power Density (mW /cm ²)	Averaging Time (minutes)
300~1500	F/1500	30
1500~100000	1.0	30

1.2 MPE EVALUATION FORMULA

$$Pd = \frac{Pt}{4 * Pi * R^2}$$

Where

Pd= Power density in mW/cm²

Pt= EIRP in mW

Pi= 3.1416

R= Measurement distance

1.3 DEVIATION FROM TEST STANDARD AND MEASUREMENT PROCEDURE

None

1.4 MEASUREMENT UNCERTAINTY

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Parameters	Uncertainty
Conducted power	±0.808 dB

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1.5 MPE EVALUATION RESULTS

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Rated Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	*Ratio	Pass / Fail
2412~2462 (Wi-Fi)	21.85	22.0	2.7	20	0.059	1	0.059	Pass
5180~5240 (Wi-Fi)	18.79	19.0	6.23	20	0.066	1	0.066	Pass
5745~5825 (Wi-Fi)	18.39	18.5	6.23	20	0.059	1	0.059	Pass
2402~2480 (BT-LE)	9.12	9.5	2.7	20	0.003	1	0.003	Pass
923.3~927.5 (LoRa)	23.75	24.0	2.3	20	0.085	0.616	0.138	Pass
1850~1910 (LTE B2)	22.86	23	8.13	20	0.258	1	0.258	Pass
824~849 (LTE B5)	22.46	22.5	5.79	20	0.134	0.549	0.244	Pass
699~716 (LTE B12)	22.28	22.5	6.79	20	0.169	0.466	0.363	Pass
777~787 (LTE B13)	22.65	22.5	6.79	20	0.169	0.518	0.326	Pass

*Ratio = Power density / Limit.

Frequency Range (MHz)	EIRP(dBm)	Rated Power (dBm)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	*Ratio	Pass / Fail
1710~1755 (LTE B4)	28.95	29	20	0.158	1	0.158	Pass

2 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin
Kou District, New Taipei City,
Taiwan, R.O.C.

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,
Kwei Shan District, Tao Yuan City
333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan District, Tao Yuan
City 333, Taiwan, R.O.C..

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

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