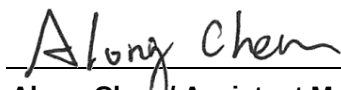


FCC RF Exposure Report

FCC ID : AK8NSDM1000
Equipment : Wireless LAN Extender
Model No. : NSD-M1000
Brand Name : SONY
Applicant : Sony Group Corporation
Address : 1-7-1 Konan Minato-ku, Tokyo, Japan,
108-0075
Standard : 47 CFR FCC Part 2.1091
Received Date : Mar. 17, 2023
Tested Date : Mar. 17 ~ Apr. 06, 2023

We, International Certification Corporation, 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 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
FA282201-01	Rev. 01	Initial issue	Apr. 28, 2023

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 REFERENCE GUIDANCE

447498 D01 General RF Exposure Guidance v06

1.4 DEVIATION FROM TEST STANDARD AND MEASUREMENT PROCEDURE

None

1.5 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.

1.6 MPE EVALUATION RESULTS

Non-beamforming mode

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Maximum Tune up limit (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	*Ratio	Pass / Fail
WLAN								
2412-2462	26.42	26.5	2.6	20	0.162	1	0.162	Pass
5180-5240	27.13	27.5	2.6	20	0.204	1	0.204	Pass
5260-5320	23.88	24.0	2.6	20	0.091	1	0.091	Pass
5500-5720	23.88	24.0	2.3	20	0.085	1	0.085	Pass
5745-5825	28.63	29.0	2.1	20	0.256	1	0.256	Pass

*Ratio = Power density / Limit.

Beamforming mode

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Maximum Tune up limit (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	*Ratio	Pass / Fail
WLAN								
2412-2462	23.77	24.0	5.61	20	0.182	1	0.182	Pass
5180-5240	26.87	27.0	5.32	20	0.339	1	0.339	Pass
5260-5320	23.75	24.0	5.32	20	0.170	1	0.170	Pass
5500-5720	23.64	24.0	5.26	20	0.168	1	0.168	Pass
5745-5825	28.29	28.5	5.11	20	0.457	1	0.457	Pass

*Ratio = Power density / Limit.

Note:

For 2412~2462MHz:

Directional gain = $2.6 + 10 \cdot \log(2/1) = 5.61$ dBi

For 5180~5240MHz / 5260~5320MHz

Directional gain = $10 \times \log((10^{2/20} + 10^{2.6/20})^2/2) = 5.32$ dBi

For 5500~5720MHz:

Directional gain = $10 \times \log((10^{2.3/20} + 10^{2.2/20})^2/2) = 5.26$ dBi

For 5745~5825MHz:

Directional gain = $2.1 + 10 \cdot \log(2/1) = 5.11$ dBi

1.7 MPE EVALUATION OF SIMULTANEOUS TRANSMISSION

Non-beamforming mode

Mode	Max Ratio of Each Mode
WLAN 2.4GHz	0.162
WLAN 5GHz	0.256
Sum	0.418
Limit	1
Pass / Fail	Pass

Beamforming mode

Mode	Max Ratio of Each Mode
WLAN 2.4GHz	0.182
WLAN 5GHz	0.457
Sum	0.639
Limit	1
Pass / Fail	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 Corporation (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 Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

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

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==