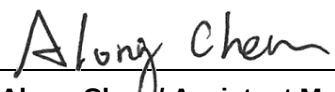


FCC RF Exposure Report

FCC ID : P27RP582B
Equipment : WiFi 6 Tri-Band Router
Model No. : RP582B
Brand Name : Sercomm
Applicant : Sercomm Corporation
Address : 8F, No. 3-1, YuanQu St., NanKang, Taipei 115,
Taiwan, R.O.C.
Standard : 47 CFR FCC Part 2.1091
Received Date : Jan. 11, 2022
Tested Date : Jan. 25 ~ Feb. 21, 2022

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:

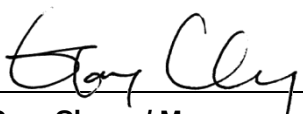

Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FA211102-01	Rev. 01	Initial issue	Mar. 25, 2022

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
Non-beamforming mode								
2412~2462 ^{Note1}	28.23	28.5	3.43	24	0.215	1	0.215	Pass
5180~5240 ^{Note1}	27.08	27.5	4.23	24	0.206	1	0.206	Pass
5745~5825 ^{Note1}	24.95	25	3.85	24	0.106	1	0.106	Pass
2402-2480 ^{Note1}	12.37	12.5	4.2	24	0.006	1	0.006	Pass
5250~5350	23.71	24	4.23	24	0.092	1	0.092	Pass
5470~5725	23.85	24	3.28	24	0.074	1	0.074	Pass
5850~5895	24.87	25	3.85	24	0.106	1	0.106	Pass
Beamforming mode								
2412~2462 ^{Note1}	26.25	26.5	5.97	24	0.244	1	0.244	Pass
5180~5240 ^{Note1}	26.64	27	9.15	24	0.569	1	0.569	Pass
5745~5825 ^{Note1}	24.86	25	6.06	24	0.176	1	0.176	Pass
5250~5350	20.69	21	9.15	24	0.143	1	0.143	Pass
5470~5725	23.81	24	5.84	24	0.133	1	0.133	Pass
5850~5895	24.83	25	6.06	24	0.176	1	0.176	Pass

Ratio* = Power density / Limit.

Note:

1. Test results of these frequency bands are leveraged from original MPE report, report no. FA211102.

2.

For 2412-2462 MHz:

Directional gain = $10 \times \log((10^{2.46/20} + 10^{3.43/20})^2 / 2) = 5.97$ dBi.

For 5150~5250MHz:

Directional gain = $10 \times \log((10^{3.35/20} + 10^{2.19/20} + 10^{2.62/20} + 10^{4.23/20})^2 / 4) = 9.15$ dBi

5725~5850MHz:

Directional gain = $10 \times \log((10^{2.16/20} + 10^{3.85/20})^2 / 2) = 6.06$ dBi

For 5250~5350:

Directional gain = $10 \times \log(10^{3.35/20} + 10^{2.19/20} + 10^{2.62/20} + 10^{4.23/20})^2 / 4) = 9.15$ dBi

For 5470~5725:

Directional gain = $10 \times \log((10^{2.16/20} + 10^{3.85/20})^2 / 2) = 5.84$ dBi.

For 5850~5895MHz:

Directional gain = $10 \times \log((10^{2.16/20} + 10^{3.85/20})^2 / 2) = 6.06$ dBi

1.6 MPE EVALUATION OF SIMULTANEOUS TRANSMISSION

Non-beamforming mode

Mode	Max Ratio of Each Mode
2.4GHz Radio 1	0.215
5GHz Radio 2	0.206
5GHz Radio 3	0.106
Sum	0.527
Limit	1
Pass / Fail	Pass

Beamforming mode

Mode	Max Ratio of Each Mode
2.4GHz Radio 1	0.244
5GHz Radio 2	0.569
5GHz Radio 3	0.176
Sum	0.990
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 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: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==