

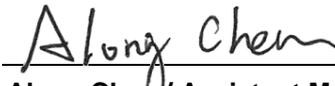
FCC RF Exposure Report

FCC ID : MXF-W1700K
Equipment : Wi-Fi 7 Router
Model No. : W1700K
Brand Name : Q Fiber
Applicant : Gemtek Technology Co., Ltd.
Address : No. 15-1 Zhonghua Road, Hsinchu Industrial
Park, Hukou, Hsinchu, Taiwan, 30352.
Standard : 47 CFR FCC Part 2.1091
Received Date : Jun. 27, 2023
Tested Date : Jul. 18 ~ Dec. 01, 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:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

Table of Contents

1	MPE EVALUATION OF MOBILE DEVICES	4
1.1	LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE.....	4
1.2	MPE EVALUATION FORMULA	4
1.3	DEVIATION FROM TEST STANDARD AND MEASUREMENT PROCEDURE	4
1.4	MEASUREMENT UNCERTAINTY	4
1.5	MPE EVALUATION RESULTS	5
1.6	MPE EVALUATION OF SIMULTANEOUS TRANSMISSION.....	6
2	TEST LABORATORY INFORMATION	7

Release Record

Report No.	Version	Description	Issued Date
FA362704-03	Rev. 01	Initial issue	Mar. 03, 2025

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

Non-beamforming mode

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
WLAN								
2412-2462*	29.50	30	3.1	30	0.181	1	0.181	Pass
5180-5240*	29.43	29.5	3.66	30	0.183	1	0.183	Pass
5260-5320*	23.74	24	2.63	30	0.041	1	0.041	Pass
5500-5720*	23.89	24	3.28	30	0.047	1	0.047	Pass
5745-5825*	29.71	30	3.6	30	0.203	1	0.203	Pass
5925-6425	30.27	30.5	3.26	30	0.210	1	0.210	Pass
6425-6525*	23.24	23.5	2.69	30	0.037	1	0.037	Pass
6525-6875	30.36	30.5	3.36	30	0.215	1	0.215	Pass
6875-7125*	21.57	22	2.71	30	0.026	1	0.026	Pass
BT								
2402-2480* (BT-LE)	9.62	10	2.94	30	0.002	1	0.002	Pass
Thread								
2405-2480*	9.72	10	2.94	30	0.002	1	0.002	Pass

*Test results of these frequency bands are leveraged from original MPE report, report no. FA362704-01.

**Ratio = Power density / Limit.

Beamforming mode

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
WLAN								
2412-2462*	29.10	29.2	5.52	30	0.262	1	0.262	Pass
5180-5240*	29.32	29.4	6.6	30	0.352	1	0.352	Pass
5260-5320*	23.54	24	6	30	0.088	1	0.088	Pass
5500-5720*	23.64	24	5.54	30	0.080	1	0.080	Pass
5745-5825*	29.43	29.5	5.56	30	0.283	1	0.283	Pass
5925-6425	29.94	30.0	5.44	30	0.309	1	0.309	Pass
6425-6525*	23.08	23.5	5.71	30	0.074	1	0.074	Pass
6525-6875	30.31	30.5	5.61	30	0.361	1	0.361	Pass
6875-7125*	21.52	22	5.44	30	0.049	1	0.049	Pass

1.6 MPE EVALUATION OF SIMULTANEOUS TRANSMISSION

Non-beamforming mode

Max Ratio of Each Mode

Mode	Wi-Fi 2.4G	BT	Thread	Wi-Fi 5G	Wi-Fi 6G	Sum	Limit	Pass / Fail
1	0.181			0.203		0.384	1	Pass
2	0.181				0.215	0.396	1	Pass
3	0.181			0.203	0.215	0.599	1	Pass
4		0.002		0.203		0.205	1	Pass
5		0.002			0.215	0.217	1	Pass
6		0.002		0.203	0.215	0.420	1	Pass
7			0.002	0.203		0.205	1	Pass
8			0.002		0.215	0.217	1	Pass
9			0.002	0.203	0.215	0.420	1	Pass

Beamforming mode

Mode	Wi-Fi 2.4G	BT	Thread	Wi-Fi 5G	Wi-Fi 6G	Sum	Limit	Pass / Fail
1	0.262			0.352		0.614	1	Pass
2	0.262				0.361	0.623	1	Pass
3	0.262			0.352	0.361	0.975	1	Pass
4		0.002		0.352		0.354	1	Pass
5		0.002			0.361	0.363	1	Pass
6		0.002		0.352	0.361	0.715	1	Pass
7			0.002	0.352		0.354	1	Pass
8			0.002		0.361	0.363	1	Pass
9			0.002	0.352	0.361	0.715	1	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

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No.30-2, Ding Fwu Tsuen, Lin Kou
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(R.O.C.)

Kwei Shan

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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.

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