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FCC RF Exposure Test Report

Report No. : PSU-NQN2506100110SA01
Applicant : EXPRESS LUCK INDUSTRIAL (SHENZHEN) LIMITED
Address : Floor1,Workshop1, No.88 SOUTH BAOTONG ROAD,XIKENG
COMMUNITY,YUANSHAN STREET,LONGGANG
DISTRICT,SHENZHEN,CHINA
Product : WiFi/BT Module
Model Name : EL.MT7663BUN-CWFT
FCC ID : 2AWY6-EMT7663BUCT
Standards : FCC Part 2 (Section 2.1091)
KDB 447498 D01 General RF Exposure Guidance v06
Date of Testing : Jun.6, 2025 ~ Jun.20, 2025
The FCC Site Registration No. : 434559
The Designation No. : CN1325

CERTIFICATION: The above equipment have been tested by **Huarui 7Layers High Technology (Suzhou) Co., Ltd.**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by A2LA or any government agencies.

Chang Gao

Sun Feibo

Prepared By : _____
(Chang Gao / Engineer)

Approved By : _____
(Peibo Sun /Manager)

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Release Control Record



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1. Description of Equipment Under Test

EUT Type	WiFi/BT Module
Model Name	EL.MT7663BUN-CWFT
Tx Frequency Bands (Unit: MHz)	BT:2402MHz~2480MHz WIFI2.4G:2.412GHz~2.462GHz WIFI5G:5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5700MHz, 5745 ~ 5825MHz
Uplink Modulations	BT/BLE: GFSK, 8DPSK, π/4 DQPSK WIFI2.4G: DSSS, OFDM, OFDMA WIFI5G: OFDM, OFDMA
HW Version	V1.00
SW Version	N/A
Antenna Type	Inverted F Antenna with -0.44dBi gain for BT/BLE ANT0: Inverted F Antenna with 2.90dBi gain for WIFI 2.4G Inverted F Antenna with 3.02dBi gain for WIFI 5G ANT1: Monopole Antenna with 4.72dBi gain for WIFI 2.4G Monopole Antenna with -0.01dBi gain for WIFI 5G

Note:

1. *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
2. The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.



2. MPE(Maximum Permissible Exposure) Assessment

2.1 Introduction

According to 47 CFR §2.1091, a mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 cm is normally maintained between the transmitting antenna and the body of the user or nearby persons. In this context, the term "fixed location" means that the device is physically secured at one location and is not able to be easily moved to another location. Transmitting devices designed to be used by consumers or workers that can be easily re-located, such as wireless devices associated with a personal computer, are considered to be mobile devices if they meet the 20 cm separation requirement. The limits to be used for MPE evaluation are specified in §1.1310. All unlicensed personal communications service (PCS) devices and unlicensed NII devices shall be subject to the limits for general population/uncontrolled exposure.

2.2 RF Radiation Exposure Limits

According to 47 CFR §1.1310, the criteria listed in below table shall be used to evaluate the environmental impact of human exposure to RF radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of §2.1093.

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (min)
(A) Limits for Occupational / Controlled Exposures				
0.3 – 3.0	614	1.63	100	6
3.0 – 30	1842/f	4.89/f	900/f ²	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	-	-	f/300	6
1500 – 100000	-	-	5	6
(B) Limits for General Population / Uncontrolled Exposures				
0.3 – 1.34	614	1.63	100	30
1.34 – 30	824/f	2.19/f	180/f ²	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	-	-	f/1500	30
1500 – 100000	-	-	1.0	30

Limits for maximum permissible exposure (MPE)

Notes:

1. f = frequency in MHz
2. Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided they are made aware of the potential for exposure.
3. General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.



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2.3 MPE Assessment Method

Calculations can be made to predict RF field strength and power density levels around typical RF sources. For example, in the case of a single radiating antenna, a prediction for power density in the far-field of the antenna can be made by use of the general Equations below. This equation is generally accurate in the far-field of an antenna but will over-predict power density in the near field, where they could be used for making a "worst case" or conservative prediction.

$$\text{Power Density (S)} = \frac{PG}{4\pi R^2} = \frac{\text{EIRP}}{4\pi R^2}$$

Where

S = Power Density, unit in mW/cm²

P = Power input to the antenna, unit in mW

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna, unit in cm

EIRP = Effective isotropically radiated power

2.4 MPE Calculation for Standalone Operations

The manufacturer expects that the radiated component of this device will not close to the human body during normal usage and the warning statement was also stated in the user instruction. Since the transmitting antenna will be kept at least 20 cm away from the human body, the MPE level is calculated based on this condition and the result is listed in below table.



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RF Exposure Evaluation Results:

Band	Freq. (MHz)	Maximum Power (dBm)	ANT Gain (dBi)	Maximum EIRP (dBm)	Maximum EIRP(mW)	Power Density (mW/cm^2)	Power Density/ Limit
BT	2402	8.46	-0.44	8.02	6.339	0.001	0.001
BLE	2480	8.42	-0.44	7.98	6.281	0.001	0.001
WIFI 2.4G MIMO	2462	19.52	4.72	24.24	265.461	0.053	0.053
WIFI 5G MIMO	5670	19.90	3.02	22.92	195.884	0.039	0.039

Simultaneous Transmission Result

Power Density1 (BT) / Limit	Powe Density2(WIFI 2.4G) / Limit	Σ (Power Density / Limit)
0.001	0.053	0.054

Note: Simultaneous Transmission Limit = Power_1 / Limit_1 + Power_2 / Limit_2 < 1.



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3. Information on the Testing Laboratories

We, Huarui 7layers High Technology (Suzhou) Co., Ltd. ,were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

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If you have any comments, please feel free to contact us at the following:

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