

RF EXPOSURE REPORT

Applicant:	EXPRESS LUCK INDUSTRIAL(SHENZHEN) LIMITED
Address:	Floor1, Workshop1, No.88, South Baotong Road, Xikeng Community Yuanshan Street, Longgang District, Shenzhen, Guangdong, China
Manufacturer:	EXPRESS LUCK INDUSTRIAL(SHENZHEN) LIMITED
Address:	Floor1, Workshop1, No.88, South Baotong Road, Xikeng Community Yuanshan Street, Longgang District, Shenzhen, Guangdong, China
Product Description:	wifi module
Brand Name:	N/A
Tested Model:	EL.AI8800D40-CWFT
FCC ID:	2AWY6-EA8800D40CT
Report No.:	JCF260617061-010
Received Date:	Jun. 17, 2026
Tested Date:	Jun. 17, 2026 - Jul. 08, 2026
Issued Date:	Jul. 08, 2026
Test Standards:	KDB 447498 D01 General RF Exposure Guidance v06
Test Result:	Pass
Prepared By:  <u>Kennys Zhang/Engineer</u>	
Date: Jul. 08, 2026	
Reviewed By:  <u>Roger Li/Engineer</u>	
Date: Jul. 08, 2026	
Approved By:  <u>Talent Zhang/Engineer</u>	
Date: Jul. 08, 2026	



Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of Guangzhou Jingce Testing Technology Co., Ltd. the test report shall not be reproduced except in full.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
--	/	Jul. 08, 2026	Original Report	/

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1. Test Report Declare

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Address:	Floor1, Workshop1, No.88, South Baotong Road, Xikeng Community Yuanshan Street, Longgang District, Shenzhen, Guangdong, China
Product Name	wifi module
Brand Name:	N/A
Model Name:	EL.AI8800D40-CWFT
Difference Description:	N/A

We Declare:

The equipment described above is tested by Guangzhou Jingce Testing Technology Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangzhou Jingce Testing Technology Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests except as provided information by clients.

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2. Equipment Under Test

2.1. Description of EUT

EUT* Name:	wifi module
Model Number:	EL.AI8800D40-CWFT
EUT Function Description:	Please refer to user manual of this device
Power Supply:	DC 3.3V $\pm$ 0.3
Hardware Version:	260617061-01-01
Software Version:	N/A
Radio Specification:	Bluetooth V5.4, IEEE 802.11a/b/g/n/ac/ax
Operation Frequency:	Bluetooth: 2402MHz-2480MHz IEEE802.11b/g/n/a/ac/ax: 2412MHz-2462MHz, 5180MHz-5825MHz
Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11a/g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20, HT40: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac (VHT20/40): OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax (HE20/40): OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Type:	Bluetooth: Steel Sheet Antenna, MAX. Gain: 3.99 dBi 2.4G WIFI: PCB Antenna , MAX. Gain: 1.45 dBi 5G WIFI: PCB Antenna , MAX. Gain: 2.16 dBi
Product Type:	☐ Portable device ☒ Mobile device ☐ Fixed device

Note 1: EUT is the ab. of equipment under test.

Note 2: The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.

2.2. Description of Available Antennas

Test Mode	Transmit and Receive Mode	Description
BT&BLE	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
2.4G WIFI	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
5G WIFI	☒ 1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.

3. Test Laboratory

Guangzhou Jingce Testing Technology Co., Ltd.

Add.: No.10, Hefeng No.1 street, Huangpu District, Guangzhou, Guangdong, People's Republic of China

Association for Laboratory Accreditation(A2LA). Certificate Number: 6594.03

FCC Designation Number: CN1381. Test Firm Registration Number: 486550

IC Test Firm Registration Number: 31808

Conformity Assessment Body identifier: CN0173

4. RF Exposure Measurement

4.1. Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

4.2. Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
Limits For General Population / Uncontrolled Exposure				
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
1500-100,000	...	...	1.0	30

F = Frequency in MHz

* = Plane-wave equivalent power density.

4.3. MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * R^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

4.4. Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.

4.5. Conducted Power

Band	Channel Frequency (MHz)	Power (dBm)
BT&BLE	2480	11.14
2.4G WIFI	2462	15.95
5G WIFI	5745	13.94

5. RF Exposure Calculation

We used the maximum power between the conducted power and ERP/EIRP to perform RF exposure exemption evaluation.

Band	Channel Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Power Density (mW/cm ²)	Limit (mW/cm ²)	PASS/FAIL
BT&BLE	2480	11.14	3.99	0.006	1	PASS
2.4G WIFI	2462	15.95	1.45	0.011	1	PASS
5G WIFI	5745	13.94	2.16	0.008	1	PASS

Both of the WLAN and plug-in device can transmit simultaneously, the formula of calculated the MPE is:

$$CPD1/LPD1 + CPD2/LPD2 + \dots \text{etc.} < 1$$

CPD = Calculation power density

LPD = Limit of power density

Therefore the worst-case situation is $0.006/1.00 + 0.011/1.00 + 0.008/1.00 = 0.025$, which is less than "1", This confirmed that the device comply with FCC 1.1310 MPE limit.

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