

iFIT Inc.

MPE ASSESSMENT REPORT

Report Type:

FCC Part §2.1091, §2.1093 and §1.1307(b) assessment report

Model:

MP24-Xenon2-L

REPORT NUMBER:

2412B1488SHA-006

ISSUE DATE:

May 16, 2025

DOCUMENT CONTROL NUMBER:

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TEST REPORT

Applicant: iFIT Inc.
1500 South 1000 West, Logan, UT 84321, USA

Manufacturer: iFIT Inc.
1500 South 1000 West, Logan, UT 84321, USA

Manufacturing Site: LUXSHARE ELECTRONIC TECHNOLOGY (KUNSHAN) LTD.
No.277, Baisheng Road, Jinxi Town, Kunshan City, Jiangsu Province,
China

Product Name: Tablet

Type/Model: MP24-Xenon2-L

FCC ID: OMC456481L

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06
FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:



Project Engineer
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REVIEWED BY:



Reviewer
Wakeyou Wang

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Revision History

Report No.	Version	Description	Issued Date
2412B1488SHA-006	Rev. 01	Initial issue of report	May 16, 2025

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Tablet
Type/Model:	MP24-Xenon2-L
Description of EUT:	The EUT is a Tablet which supports WIFI and Bluetooth function, it has only one model.
Rating:	DC 12V 3A
Category of EUT:	Class B
Product Marketing Name:	MP24-Xenon2-L
HVIN:	MP24-Xenon2-L
Software Version:	LKX2_20250110
Hardware Version:	EM_AIT9002_V1.2
Sample received date:	February 10, 2025
Date of test:	February 10, 2025 ~ April 11, 2025

1.2 Technical Specification

Frequency Range:	2402-2480MHz
Support Standards:	IEEE 802.15.1
Type of Modulation:	GFSK
Channel Number:	40
Data Rate:	1Mbps,2Mbps
Channel Separation:	2MHz
Antenna Information:	1.98dBi, FPC antenna

Frequency Range:	2400MHz ~ 2483.5MHz
Support Standards:	Bluetooth 5.2 (BR+EDR)
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Channel Number:	79 (0 - 78)
Data Rate:	1Mbps
Channel Separation:	1 MHz
Antenna:	1.98dBi, FPC antenna

Frequency Band:	2400MHz ~ 2483.5MHz
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n(HT20), IEEE 802.11n(HT40), IEEE 802.11ax(HE20), IEEE 802.11ax(HE40)
Type of Modulation:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n(HT20): OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n(HT40): OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11ax(HE20): OFDMA (64-QAM, 16-QAM, QPSK, BPSK ,1024QAM) IEEE 802.11ax(HE40): OFDMA (64-QAM, 16-QAM, QPSK, BPSK ,1024QAM)
Operating Frequency:	2412MHz to 2462MHz for IEEE 802.11b/g/n(HT20) /ax(HE20) 2422MHz to 2452MHz for IEEE 802.11n(HT40) /ax(HE40)
Channel Number:	11 Channels for 802.11b, 802.11g ,802.11n(HT20) ,802.11ax(HE20) 7 Channels for 802.11n(HT40) , 802.11ax(HE40)
Channel Separation:	5 MHz
Antenna Information:	FPC antenna 1: 1.19dBi FPC antenna 2: 2.09dBi

Frequency Range:	5150 ~ 5250MHz 5250 ~ 5350MHz 5470 ~ 5725MHz 5725 ~ 5850MHz
Support Standards:	802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(HT20), 802.11ac(HT40), 802.11ac(HT80), 802.11ax(HE20), 802.11ax(HE40) , 802.11ax(HE80)
Type of Modulation:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM,1024QAM)
Channel Number:	For 5180 ~ 5240MHz band: Channel 36 - 48 For 5260 ~ 5320MHz Band: Channel 52 - 64 For 5500 ~ 5700MHz Band: Channel 100 - 140 For 5745 ~ 5825MHz band: Channel 149 - 165
Antenna Information:	FPC antenna 1: 2.07dBi FPC antenna 2: 1.25dBi

1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

2 MPE Assessment

Test result: Pass

2.1 MPE Assessment Limit

Mobile device exposure for standalone operations:

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (uT)	Equivalent plane wave power density S_{eq} (W/m ²)
0-1 Hz	-	$3,2 \times 10^4$	4×10^4	-
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	-
8-25 Hz	10 000	$4\,000/f$	$5\,000/f$	-
0,025-0,8 kHz	$250/f$	$4/f$	$5/f$	-
0,8-3 kHz	$250/f$	5	6,25	-
3-150 kHz	87	5	6,25	-
0,15-1 MHz	87	$0,73/f$	$0,92/f$	-
1-10 MHz	$87/f^{1/2}$	$0,73/f$	$0,92/f$	-
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	$1,375 f^{1/2}$	$0,0037 f^{1/2}$	$0,0046 f^{1/2}$	$f/200$
2-300 GHz	61	0,16	0,20	10

Mobile device exposure for simultaneous transmission operations: **the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is ≤ 1.0**

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2.2 Assessment Results

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm²

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 2412B1486SHA-001&2412B1486SHA-002&2412B1486SHA-003&2412B1486SHA-004:

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

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Work Frequency	Power		Antenna Gain		R	S	Limits
(MHz)	dBm	mW	dBi	(Numeric)	(cm)	(mW/cm ²)	(mW/cm ²)
2402 – 2480	8.21	6.61	1.98	1.58	20	0.0021	1
2412 – 2462	19.08	80.91	2.09	1.62	20	0.0261	1
5180 – 5825	16.30	42.66	2.07	1.61	20	0.0136	1

Note: 1 mW/cm² from 1.310 Table 1.

BT/BLE and 2.4G WIFI can simultaneous transmitting, so the maximum rate of MPE is,
 $0.0021/1+0.0261/1=0.0282\leq 1.0$.

BT/BLE and 5G WIFI can simultaneous transmitting, so the maximum rate of MPE is,
 $0.0021/1+0.0136/1=0.0157\leq 1.0$.

Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

*****END*****