



Test Report No.: FM2008WDG0310



# RF EXPOSURE REPORT

Applicant	Icon Health and Fitness, Inc.
Address	1500 South 1000 West, Logan Utah United States 84321

Manufacturer or Supplier	Icon Health and Fitness, Inc.
Address	1500 South 1000 West, Logan Utah United States 84321
Product	Tablet
Brand Name	N/A
Model	MP32-Argon2
Additional Model & Model Difference	N/A
Date of tests	Sep. 29, 2020 ~ Nov. 09, 2020

- FCC Part 2 (Section 2.1091)
- KDB 447498 D01
- IEEE C95.1

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Tested by Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	
	Date Nov. 17, 2020

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Test Report No.: FM2008WDG0310

## TABLE OF CONTENTS

RELEASE CONTROL RECORD .....	3
1. CERTIFICATION.....	4
2. RF EXPOSURE LIMIT .....	5
3. MPE CALCULATION FORMULA.....	5
4. CLASSIFICATION .....	5
5. ANTENNA GAIN .....	6
6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER.....	6



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Test Report No.: FM2008WDG0310

## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2008WDG0310	Original release	Nov. 17, 2020

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## 1. CERTIFICATION

**PRODUCT:** Tablet  
**BRAND NAME:** N/A  
**MODEL NO.:** MP32-Argon2  
**ADDITIONAL MODEL:** N/A  
**FCC ID:** OMC425341  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**APPLICANT:** Icon Health and Fitness, Inc.  
**TESTED DATES:** Sep. 29, 2020 ~ Nov. 09, 2020  
**STANDARDS:** FCC Part 2 (Section 2.1091)  
KDB 447498 D01  
IEEE C95.1



## 2. RF EXPOSURE LIMIT

### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm <sup>2</sup> )	AVERAGE TIME (minutes)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

## 3. MPE CALCULATION FORMULA

$$Pd = (Pout * G) / (4 * pi * r^2)$$

where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

## 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**.

## 5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Frequency Band	Antenna Gain (dBi)	Antenna Type
Wi-Fi 2.4GHz	2.82	FPCB Antenna
BT 2.4GHz	2.82	FPCB Antenna
Wi-Fi 5GHz (5150-5250MHz)	4.82	FPCB Antenna
Wi-Fi 5GHz (5250-5350MHz)	5.27	FPCB Antenna
Wi-Fi 5GHz (5500-5725MHz)	4.60	FPCB Antenna
Wi-Fi 5GHz (5725-5850MHz)	6.03	FPCB Antenna

## 6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT (GFSK)	2402-2480MHz	7	+1	6	8
BT (8DPSK)	2402-2480MHz	5	+1	4	6
BT-LE (GFSK)	2402-2480MHz	6	+1	5	7
802.11b	2412-2462MHz	13	+1	12	14
802.11g	2412-2462MHz	13	+1	12	14
802.11n HT20	2412-2462MHz	12	+1	11	13
Wi-Fi 5GHz(Band1)	5150-5250MHz	14	+2	12	16
Wi-Fi 5GHz(Band2)	5250-5350MHz	14	+2	12	16
Wi-Fi 5GHz(Band3)	5500-5725MHz	14	+2	12	16
Wi-Fi 5GHz(Band4)	5725-5850MHz	14	+2	12	16



The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BT (GFSK)	2402	6.69
BT (8DPSK)	2402	4.61
BT-LE (GFSK)	2402	5.98
802.11b	2412	12.26
802.11g	2437	12.58
802.11n HT20	2412	11.65
Wi-Fi 5GHz(Band1)	5240	14.41
Wi-Fi 5GHz(Band2)	5320	14.47
Wi-Fi 5GHz(Band3)	5700	14.45
Wi-Fi 5GHz(Band4)	5785	14.27

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
BT 2.4GHz	8	2.82	20	0.002403	1.0
Wi-Fi 2.4GHz	14	2.82	20	0.009566	1.0
Wi-Fi 5GHz	16	6.03	20	0.031749	1.0

**CONCLUSION:**

The WLAN 2.4GHz and 5GHz can not transmit simultaneously, the BT and WLAN can transmit simultaneously, the formula of calculated the MPE is:

**CPD1 / LPD1 + CPD2 / LPD2 + .....etc. < 1**

**CPD = Calculation power density**

**LPD = Limit of power density**

$(0.002403 / 1) + (0.031749 / 1) = 0.034151 < 1$ , which is less than the "1" limit.

--- END ---