

FCC MPE REPORT

Certification

Applicant Name:
I&C Technology Co.,Ltd.

Address:
(Sampyeong-dong , I&C Building), 24, Pangyo-ro255beon-gil,Bundang-gu Seongnam-si, South Korea

Date of Issue:

June 21, 2018

Test Site/Location:

HCT CO., LTD., 74,Seoicheon-ro 578beon-gil,Majang-myeo,Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

Report No.: HCT-RF-1806-FC009-R1

FCC ID: 2ADXS-WFM60-SFP201

APPLICANT: I&C Technology Co.,Ltd.

Model(s): WFM60-SFP201

EUT Type: 2.4GHz WLAN Stand-alone Module

Frequency Range: 2412 MHz – 2462 MHz (2.4 GHz Band)

The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)



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Engineer of Telecommunication testing center



Approved by : Jong Seok Lee
Manager of Telecommunication testing center

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-RF-1806-FC009	June 08, 2018	- First Approval Report
HCT-RF-1806-FC009-R1	June 21, 2018	- Revised the max peak output power



RF Exposure Statement

1. LIMITS

According to §1.1310 and §2.1091 RF exposure is calculated.

(B) Limits for General Population/Uncontrolled Exposures

Frequency range (MHz)	Electric field Strength (V/m)	Magnetic field Strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
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

2. MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

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

S = Power density

P = power input to antenna

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

3.RESULTS

3-1. WLAN Mode

Max Peak output Power at antenna input terminal	25.00	dBm
Max Peak output Power at antenna input terminal	316.228	mW
Prediction distance	20.000	cm
Prediction frequency	2412 - 2462	MHz
Antenna Gain(typical)	2.710	dBi
Antenna Gain(numeric)	1.866	-
Power density at prediction frequency(S)	0.117417	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm ²