

TEST REPORT

FCC MPE Test for WFM60-SFP202

Certification

APPLICANT

I&C TECHNOLOGY CO. LTD.

REPORT NO.

HCT-RF-1911-FI018

DATE OF ISSUE

November 19, 2019

HCT Co., Ltd.

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WFM60-SFP202

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HCT-RF-1911-FI018

DATE OF ISSUE
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FCC ID
2ADXS-WFM60-SFP202

Applicant I&C TECHNOLOGY CO. LTD.
I&C Building, 24, Pangyo-ro 255beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, 13486, Korea

Eut Type Wi-Fi Module
Model Name WFM60-SFP202

Date of Receipt August 20, 2019

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test results were applied only to the test methods required by the standard.

Tested by
Jeong Ho Kim

(signature)

Technical Manager
Jong Seok Lee

(signature)

HCT CO., LTD.

Soo Chan Lee
SooChan Lee / CEO

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	November 19, 2019	Initial Release

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)

This laboratory is not accredited for the t-test results marked *.

The above Test Report is the accredited test result by KOLAS (Korea Laboratory Accreditation Scheme), which signed the ILAC-MRA. (HCT Accreditation No.: KT197)

RF Exposure Statement

1. Limit

According to § 1.1310, § 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 to 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. DTS

Peak output Power at antenna input terminal	25.00	dBm
Peak output Power at antenna input terminal	316.23	mW
Prediction distance	20.000	cm
Prediction frequency	2412 ~ 2462	MHz
Antenna Gain(typical)	2.650	dBi
Antenna Gain(numeric)	1.841	-
Power density at prediction frequency(S)	0.11581	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.0000	mW/cm ²

2.1091

EIRP	27.65 (dBm)
ERP	25.50 (dBm)
ERP	0.355 (W)
ERP Limit	3.00 (W)
MARGIN	9.27 (dB)