



시험 성적서

TEST REPORT

페이지(page) : (1) / (총(Total) 5)

성적서 번호 Report No.		ICRT-TR-E192000-0A	
신청자 Client	기관명 Name	Seyoung Information & Telecommunication Co., Ltd.	
	주 소 Address	298-2, Gongdan-dong, Gumi-Si, Gyeongsanbuk-do, 730-030, South Korea	
시험대상품목 Sample description		WIWI	
모델명 Type designation		SH-350M	
정 격 Ratings		DC 3.7 V	
시험기간 Date of test		Oct. 08, 2019 ~ Oct. 21, 2019	
시험방법/항목 Test Method/Item		FCC rule §1.1310	
시험결과 Test Results		Refer to 3. Maximum Permissible Exposure	
확 인 Affirmation	작성자 Tested by	기술책임자 Technical Manager	
	성 명 Name Yeong-Hwan, Hong (Signature)	성 명 Name Jun-Hui, Lee (Signature)	
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Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
ICRT-TR-E192000-0A	30-Oct-2019	Initial Issue	All



1. Applicant & Manufacturer & Test Laboratory Information

1.1 Applicant information

Applicant	Seyoung Information & Telecommunication Co., Ltd.
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Contact Person	YOUNG BAE, PARK
Telephone No.	+82-54-463-2300
Fax No.	+82-54-463-2106
E-mail	lilybulb@eseyoung.com

1.2 Manufacturer Information

Manufacturer	Seyoung Information & Telecommunication Co., Ltd.
Address	298-2, Gongdan-dong, Gumi-Si, Gyeongsanbuk-do, 730-030, South Korea

1.3 Test Laboratory Information

Conducted tests were performed at	
Laboratory	ICR Co., Ltd.
Address	112, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea
Telephone No.	+82-2-6351-9002
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RRA No.	KR0165
KOLAS No.	KT652



2. Equipment under Test(EUT) Information

2.1 General Information

Product Name	WIWI
Brand Name	-
Model Name	SH-350M
Additional Model Name	-
FCC ID	ZAB-SH-350M
Hardware Version	-
Software Version	-
Power Supply	DC 3.7 V

2.2 Additional Information

Equipment Class	DSS-Part 15 Spread Spectrum Transmitter
Device Type	Stand-alone
Operating Frequency	902.5 MHz ~ 927.25 MHz
RF Output Power	17.70 dBm
Number of Channel	100
Modulation Type	GFSK
Antenna Type	Dipole Antenna
Antenna Gain	0.09 dBd
Antenna Operating Mode	Single Antenna Equipment with only one antenna

2.3 Mode of operation during the test

- The EUT is continuous transmission mode during the test with set at Low Channel, Middle Channel, and High Channel. To get a maximum radiated emission levels from the EUT, the EUT was moved throughout the XY, YZ, XZ planes.

2.4 Modifications of EUT

- None



3. Maximum Permissible Exposure

3.1 RF Exposure calculation

According to the FCC rule §1.1310 the limit for General Population/Uncontrolled exposure is 1 mW/cm² for the device operating 1 500 MHz ~ 100 000 MHz.

Kind of EUT	WIWI	
Operating Frequency Band	☐ WLAN(802.11b/g/n(HT20)): 2 412 MHz ~ 2 462 MHz ☐ WLAN(802.11n(HT40)): 2 422 MHz ~ 2 452 MHz ☐ WLAN: 5 180 MHz ~ 5 320 MHz / 5 500 MHz ~ 5 700 MHz ☐ WLAN: 5 745 MHz ~ 5 825 MHz ☐ Bluetooth: 2 402 MHz ~ 2 480 MHz ☒ FHSS: 902 MHz ~ 928 MHz	
Max. Output Power	FHSS	17.70 dBm
Exposure Evaluation Applied	☐ MPE ☐ SAR ☒ N/A	

3.2 Result

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is

$$[(\text{Max. Power of channel, including tune-up tolerance, mW}) / (\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3$$

$$= (0.16/5) \times \sqrt{0.92725} = 0.03 \text{ at FHSS}$$

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and excluded SAR Test.

Operating Mode	Frequency (MHz)	Target Power W / tolerance	Max tune up power (Average power)		Separation distance (mm)	RF exposure
		(dBm)	(dBm)	(mW)		
FHSS	927.25	-8.45 ± 0.5	-7.95	0.16	5.00	0.03

※ Max tune up power (Average Power) = -7.95 dBm = 0.16 mW

(Measured Maximum Average Power = Max. Peak Output Power – Duty Cycle Correction Factor
= -8.45 dBm ± 0.5 dB)