



RF Exposure Evaluation

FCC ID: SJ8-M735

1. Client Information

Applicant	:	RDI Technology (Shenzhen) Co., Ltd.
Address	:	BUILDING 1#, YONGYUE ROAD 7#, XINTANG INDUSTRIAL PARK, EAST BAISHIXIA, FUYONG, BAOAN, SHENZHEN, PRC, China
Manufacturer	:	RDI Technology (Shenzhen) Co., Ltd.
Address	:	BUILDING 1#, YONGYUE ROAD 7#, XINTANG INDUSTRIAL PARK, EAST BAISHIXIA, FUYONG, BAOAN, SHENZHEN, PRC, China

2. General Description of EUT

EUT Name	:	Wireless monitor
Model(s)	:	M735, M735T
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name.
Product Description	:	Operation Frequency: 802.11b/g: 2412MHz~2462MHz
		Number of Channel: 802.11b/g:11 channels
		RF Output Power: 8.84dBm (Max)
		Antenna Gain: Dipole antenna, Maximum Gain: 4.7dBi
Power Rating	:	Adapter: (CS12N050200FUF) Input: 100-240V~, 50/60Hz 500mA Output: DC 5V, 2.0A DC 3.7V by 2000mAh 7.4Wh Rechargeable Li-ion Battery
Software Version	:	N/A
Hardware Version	:	N/A
Connecting I/O Port(S)	:	Please refer to the User's Manual
Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.		

Note: More test information about the EUT please refer the RF Test Report.

TB-RF-074-1.0

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

(1) Clause 4.3: General SAR test reduction and exclusion guidance

Sub clause 4.31: Standalone SAR test exclusion considerations

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f(\text{GHz})}]}{\leq 3.0 \text{ for 1-g SAR}}$$

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f(\text{GHz})}]}{\leq 7.5.0 \text{ for 10-g SAR}}$$

2. Calculation:

Test separation: 5mm						
802.11b						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.02	8±1	9	7.943	2.467	3.0
2.437	8.00	8±1	9	7.943	2.480	3.0
2.462	8.84	8±1	9	7.943	2.493	3.0

Test separation: 5mm						
802.11g						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.18	8±1	9	7.943	2.467	3.0
2.437	8.40	8±1	9	7.943	2.480	3.0
2.462	7.94	7±1	8	6.310	1.980	3.0

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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