

RF Exposure Evaluation

FCC ID: 2ANPU-RSC1

1. Client Information

Applicant : Chengdu Ledong Information Technology Co., Ltd
Address : 13F, D-7, Tianfu Software Park, Gaoxin District, Chengdu, China
Manufacturer : Chengdu Ledong Information Technology Co., Ltd
Address : 13F, D-7, Tianfu Software Park, Gaoxin District, Chengdu, China

2. General Description of EUT

EUT Name	:	RSC1	
Models No.	:	RSC1-001	
Model Difference	:	N/A	
Product Description	:	Operation Frequency:	Bluetooth 4.0(BLE): 2402MHz~2480MHz
	:	Number of Channel:	Bluetooth 4.0(BLE): 40 channels
	:	RF Output Power:	-0.714 dBm Conducted Power
	:	Antenna Gain:	0 dBi PCB Antenna
	:	Modulation Type:	GFSK
	:	Bit Rate of Transmitter:	1Mbps(GFSK)
Power Rating	:	DC 3.0 V by Button Battery(CR2032).	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note:

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

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						
Bluetooth Mode (GFSK)						
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
2.402	-0.714	-1±1	0	1.000	0.310	3.0
2.441	-1.061	-1±1	0	1.000	0.313	3.0
2.480	-1.492	-1±1	0	1.000	0.315	3.0

So standalone SAR measurements are not required.

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