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RF Exposure Evaluation

FCC ID: 2A58M-20

1. Client Information

Applicant	:	Shenzhen Daciot Technology Co.,Ltd
Address	:	Room 713, 7th floor, Building C1, Bantian International Center, No.5 Huancheng South Road, Bantian Street, Longgang District, Shenzhen City, China
Manufacturer	:	Shenzhen Daciot Technology Co.,Ltd
Address	:	Room 713, 7th floor, Building C1, Bantian International Center, No.5 Huancheng South Road, Bantian Street, Longgang District, Shenzhen City, China

2. General Description of EUT

EUT Name	:	SR-II
Model(s) No.	:	20#, 17#, 18#, 19#, 21#, 22#
Model Different	:	All these models are identical in the same PCB, layout and electrical circuit, The only difference is model name.
Product Description	Operation Frequency:	Bluetooth LE4.0: 2402MHz~2480MHz
	Number of Channel:	40 channels
	Antenna Gain:	2 dBi PCB Antenna
	Modulation Type:	GFSK
	Bit Rate of Transmitter:	Bluetooth LE:1Mbps
Power Supply	:	Input: DC 5V
Software Version	:	V69
Hardware Version	:	V2.2

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:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR}$$
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}] \leq 7.5.0 \text{ for 10-g SAR}$$

2. Calculation:

Bluetooth LE Mode(1Mbps)						
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	-3.645	-3±1	-2	0.631	0.196	3.0
2.440	-2.736	-2±1	-1	0.794	0.248	3.0
2.480	-2.816	-2±1	-1	0.794	0.250	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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