

RF Exposure Evaluation

FCC ID: 2ANIE-V08

1. Client Information

Applicant : WO-SMART TECHNOLOGIES (SHENZHEN) CO.,LTD
Address : 2C, AB Block, Tianji Building, Tian'an Cyber Park, Chegongmiao, Futian District, Shenzhen, China
Manufacturer : SHENZHEN HONGKAIJIWEI TECHNOLOGY GO.,LTD
Address : Floor 3, Buliding 2, Jianlian Industiral Park, Longhua, Shenzhen

2. General Description of EUT

EUT Name	:	Fitness band with call function(V08)	
Models No.	:	V08, V08Talk, V08S , EarBand	
Model Difference	:	All models are identical in the same PCB layout interior structure and electrical circuits, The only difference is shell color and touch button.	
Product Description	:	Operation Frequency:	Bluetooth V3.0+4.0(BLE):2402MHz~2480MHz
	:	RF Output Power:	Bluetooth: 3.756dBm(GFSK) BLE: 0.047dBm
	:	Antenna Gain:	-6.8dBi FPC Antenna 2dBi Ceramic Antenna
Power Supply	:	DC Voltage supplied by USB cable DC Voltage supplied by Li-ion battery	
Power Rating	:	DC 5V by USB Cable DC 3.7V by 950mAh Li-ion battery	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note: More test information about the EUT please refer 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:

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

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{\text{GHz}}}] \leq 7.5.0$ 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	2.088	3±1	4	2.512	0.779	3.0
2.441	3.387	3±1	4	2.512	0.785	3.0
2.480	3.756	3±1	4	2.512	0.791	3.0
Bluetooth Mode ($\pi/4$ -DQPSK)						
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	0.746	1.5±1.5	3	1.995	0.618	3.0
2.441	2.514	1.5±1.5	3	1.995	0.623	3.0
2.480	2.650	1.5±1.5	3	1.995	0.628	3.0
Bluetooth Mode (8-DPSK)						
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	1.139	2±1.5	3.5	2.239	0.694	3.0
2.441	2.777	2±1.5	3.5	2.239	0.700	3.0
2.480	3.002	2±1.5	3.5	2.239	0.705	3.0
BLE 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	-1.446	-0.5±1	0.5	1.122	0.348	3.0
2.442	-0.422	-0.5±1	0.5	1.122	0.351	3.0
2.480	0.047	-0.5±1	0.5	1.122	0.353	3.0

So standalone SAR measurements are not required.

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