



RF Exposure Evaluation

FCC ID: 2BE3V-WP-03B

1. Client Information

Applicant	:	Shenzhen Peicheng Technology Co., Ltd
Address	:	5th Floor, Building 64, Baotian Industrial Zone, Chentian Community, Xixiang Street, Baoan District, Shenzhen City, China
Manufacturer	:	Shenzhen Peicheng Technology Co., Ltd
Address	:	5th Floor, Building 64, Baotian Industrial Zone, Chentian Community, Xixiang Street, Baoan District, Shenzhen City, China

2. General Description of EUT

EUT Name	:	Wireless Speaker
Model(s) No.	:	WP-03B
Model Difference	:	----
Product Description	Operation Frequency:	Bluetooth(BR+EDR) V5.3: 2402MHz~2480MHz
	Number of Channel:	79 channels
	Antenna Gain:	-0.58dBi PCB Antenna
	Modulation Type:	GFSK(1Mbps) π/4-DQPSK(2Mbps) 8-DPSK(3Mbps)
Power Supply	:	USB Input: DC 5V DC 3.7V 1000mAh Rechargeable Li-ion battery
Software Version	:	V1.0
Hardware Version	:	V1.2
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.

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	-0.891	0±1	1	1.259	0.390	3.0
2.441	-0.617	0±1	1	1.259	0.393	3.0
2.480	-0.885	0±1	1	1.259	0.397	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	-0.073	0±1	1	1.259	0.390	3.0
2.441	0.205	0±1	1	1.259	0.393	3.0
2.480	-0.07	0±1	1	1.259	0.397	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	0.545	0±1	1	1.259	0.390	3.0
2.441	0.765	0±1	1	1.259	0.393	3.0
2.480	0.509	0±1	1	1.259	0.397	3.0

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.

-----END OF THE REPORT-----

