



RF Exposure Evaluation

FCC ID: 2ACA8-PIWEB-01

1. Client Information

Applicant	:	Doria International, Inc
Address	:	12424 Wilshire Blvd, Suite 1120, Los Angeles, CA, 90025
Manufacturer	:	Doria International, Inc
Address	:	12424 Wilshire Blvd, Suite 1120, Los Angeles, CA, 90025

2. General Description of EUT

EUT Name	:	Pinit Wireless Earbuds
Model(s) No.	:	PIWEB-01, 01
Model Difference	:	All models are identical in the same PCB layout, internal structure and circuit, the only difference is the appearance.
Product Description	Operation Frequency:	Bluetooth 5.2(BDR+EDR): 2402MHz~2480MHz
	Number of Channel:	79 channels
	Antenna Gain:	2.26dBi FPC Antenna
	Modulation Type:	GFSK(1Mbps) π/4-DQPSK(2Mbps) 8-DPSK(3Mbps)
	Bit Rate of Transmitter:	1/2/3Mbps
Power Rating	:	Input: DC 5V,1A
Power Supply (Charging Box)	:	DC 3.7V by 800mAh Rechargeable Li-ion battery
Power Supply (Earphone)	:	DC 3.7V by 45mAh Rechargeable Li-ion battery
Software Version	:	V1.3
Hardware Version	:	V1.1
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:

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

- [(max. power of channel, including tune-up tolerance, mW)/(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	3.687	3±1	4	2.512	2.512	3.0
2.441	3.137	3±1	4	2.512	2.512	3.0
2.480	2.766	2±1	3	1.995	1.995	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	0.745	0±1	1	1.259	0.390	3.0
2.441	1.056	1±1	2	1.585	0.495	3.0
2.480	0.799	0±1	1	1.259	0.397	3.0
Bluetooth Mode (8-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	1.250	1±1	2	1.585	0.491	3.0
2.441	1.597	1±1	2	1.585	0.495	3.0
2.480	1.403	1±1	2	1.585	0.499	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.

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

