

MPE CALCULATION
FCC ID: 2ALKS-WALL01

RF Exposure Requirements: 47 CFR §1.1307(b)

RF Radiation Exposure Limits: 47 CFR §1.1310

RF Radiation Exposure Guidelines: FCC OST/OET Bulletin Number 65

EUT Frequency Band: Bluetooth LE 2402-2480 MHz

Limits for General Population/Uncontrolled Exposure in the band of: 1500 - 100,000 MHz

Power Density Limit: 1 mW / cm²

Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$

Where, S = Power Density

P = Power Input to Antenna

G = Antenna Gain

R = distance to the center of radiated antenna

EUT: CURRANT METER, Model No.: WALL01

(BLE Band): Power = 4.49 dBm, Antenna Gain = 1.7 dBi, Power density = 0.000827 mW/ cm²

Type	CH Freq (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Directional Gain (dBi)	Tune-Up Tolerance	Tolerance Max Power (dBm)	Measurement Distance (cm)	Calculated MPE (mW/cm ²)	MPE Limit (mW/cm ²)	Pass/Fail
BLE	2402	4.49	1.7	1.7	±1dB	5.59	20	0.000827	1	Pass

The Above Result had shown that the Device complied with MPE requirement.

Completed By: Cipher



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