MPE CALCULATION

FCC ID: APV-SC1204

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: 2402-2480 MHz

Limits for General Population/Uncontrolled Exposure in the band of: 300-1500MHz, 1500-100,000 MHz

Power Density Limit: f/1500; 1 mW / cm²

Equation: S = PG / 4π R² or R = \sqrt{PG} / 4π S

Where, S = Power Density

P = Power Input to Antenna

G = Antenna Gain

R = distance to the center of radiated antenna

EUT: BLE Module, Model No.: SCI BLE

PCB Trace Antenna

Prediction distance 20cm

BLE: Power= -1.61 dBm, Antenna Gain = 2 dBi, Power density = 0.000274 mW/cm²

Туре	CH Freq (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Tune-Up Tolerance	Tolerance Max Power (dBm)	Measurement Distance (cm)	Calculated MPE (mW/cm²)	MPE Limit (mW/cm²)	Pass/ Fail
BLE	2402	-1.61	2.0	±1dB	-0.61	20	0.000274	1	Pass

The Above Result had shown that the device complied with MPE requirement at a prediction distance of 20cm.

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