

MPE CALCULATION FCC

FCC ID: JUP-10950

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: WLAN

2412-2462 MHz

EUT Frequency Band: BT

2402-2480 MHz

EUT Frequency Band: UHF

403-473 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: Alloy

Model No. : Alloy

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
WLAN	2437	16.58	2	2	±1dB	17.58	40	0.0045	1	Pass
BT	2402	6.92	2	2	±1dB	7.92	40	0.0004	1	Pass
UHF	429.95	33.06	-2	-2	±1dB	34.06	40	0.0799	0.286	Pass

If all radios transmit simultaneously.

Total MPE=0.0045/1 + 0.0004/1 + 0.0799/0.286 = 0.284 < 1

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

Completed By: Rachana Khanduri



SIEMIC, Inc

775 Montague Expressway, Milpitas, CA 95035

Phone: (408) 526-1188

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