

MPE CALCULATION

FCC ID: N6C-SDPAC

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: 2.4 GHz

2402- 2480MHz

EUT Frequency Band: 2.4 GHz

2412- 2462MHz, 2422-2452MHz

EUT Frequency Band: 5 GHz

5180- 5320MHz, 5500-5720MHz, 5745-5825MHz

5210-5290MHz, 5530-5610MHz, 5690-5775MHz

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

Prediction distance 20cm

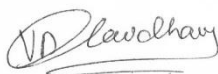
802.11a/b/g/n/ac + BT4.1 module

Type	CH Freq (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Apparent Gain (dBi)	Measurement distance (cm)	Calculated MPE (W/m2)	MPE Limit (W/m2)	Pass / Fail
BT	2402	9.24	3.25	3.25	20	0.035	10	Pass
BLE	2441	0.83	3.25	3.25	20	0.005	10	Pass
2.4GHz WLAN	2462	17.83	3.25	3.25	20	0.255	10	Pass
5GHz WLAN	5795	15.09	5	5	20	0.203	10	Pass

Note: Different radio do not transmit simultaneously.

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

Completed By: Chen Ge



SIEMIC, Inc.

775 Montague Expressway, Milpitas, CA 95035

Date: 10/31/2017