

**MPE CALCULATION**  
**WIFI FCC ID: W38-28010161**  
**RFID FCC ID: W38-28010087**

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: 2.4GHz 2412-2462 MHz, 13.56MHz  
 Limits for General Population/Uncontrolled Exposure in the band of: 1500 - 100,000 MHz  
 Power Density Limit: 1 mW / cm<sup>2</sup>  
 Limits for General Population/Uncontrolled Exposure in the band of: 1.34-30 MHz  
 Power Density Limit: 180/f<sup>2</sup> = 0.97 mW / cm<sup>2</sup>

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

**Host EUT Model No.: CPF50**

Type	CH Freq (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Tune-Up Tolerance	Tolerance Max Power (dBm)	Measurement Distance (cm)	Calculated MPE (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )	Pass/Fail
2.4 GHz	2462	15.74	2.5	±1dB	16.74	20	0.0167	1	Pass
RFID	13.56	-30.53	0.5	±1dB	-29.53	20	0.0000002217	0.97	Pass

RFID and WIFI transmit simultaneously

RFID = (0.00002217 / 0.97) x 100 = 0.00002278 %

WIFI = (0.0167 / 1) x 100 = 1.67 %

Total MPE Percentage = 0.00002278 % + 1.67 % = 1.67002278 %

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

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Date: 06/04/2019