

Calculated Data:

**(WiFi or BLE) + Z-wave + G-power (FCC ID: WP3PGMODEMLP) + WCDMA/LTE module
(FCC ID: XMR201807EG91NA)**

MPE evaluation for single transmission:

Mode	Frequency Range (MHz)	Antenna Gain		Tune-up Conducted Power		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
WiFi	2412-2462	2.67	1.85	23.0	199.53	20	0.073	1.0
	5180-5240	1.02	1.26	13.0	19.95	20	0.005	1.0
	5745-5825	1.02	1.26	6.0	3.98	20	0.001	1.0
BLE	2402-2480	2.67	1.85	5.0	3.16	20	0.001	1.0
Power-G	912.75-919.106	0.43	1.10	13.5	22.39	20	0.005	0.61
Z-wave	908.4-916	0.50	1.12	-20.0	0.01	20	0.000	0.61
WCDMA Band 5	824-849	1.6	1.45	24.0	251.19	20	0.072	0.55
WCDMA Band 4	1710-1755	2.4	1.74	24.0	251.19	20	0.087	1.0
WCDMA Band 2	1850-1910	2.4	1.74	24.0	251.19	20	0.087	1.0
LTE Band 2	1850-1910	2.4	1.74	24.5	281.84	20	0.098	1.0
LTE Band 4	1710-1755	2.4	1.74	24.5	281.84	20	0.098	1.0
LTE Band 5	824-849	1.6	1.45	24.5	281.84	20	0.081	0.55
LTE Band 12	699-716	1.6	1.45	24.5	281.84	20	0.081	0.47
LTE Band 13	777-787	1.6	1.45	24.5	281.84	20	0.081	0.52

MPE evaluation for simultaneous transmission:

- Note: 1. Wi-Fi & BLE can't transmit simultaneously.
 2. Wi-Fi(2.4G) & Wi-Fi(5G) can't transmit simultaneously.
 3. Wi-Fi & Z-wave & Power-G & WCDMA/LTE or BLE & Z-wave & Power-G & WCDMA/LTE can transmit simultaneously, MPE evaluation is as below formula:

$PD1/Limit1 + PD2/Limit2 + \dots < 1$, PD (Power Density)

The worst case is as below:

Max MPE of Wi-Fi(2.4G) + Max MPE of Power-G + Max MPE of LTE

$$= 0.073/1.0 + 0.005/0.61 + 0.081/0.47 = 0.254 < 1.0$$

Result: MPE evaluation of single and simultaneous transmission meet the requirement of standard.