Product name: A98-12 Manufacturer: Linkplay

FCC Id: 2ANOG-A98XX

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Transmitter n°1 Bluetooth - BLE

Maximum peak output power at the antenna terminal: 3,04 (dBm)

Maximum peak output power at the antenna terminal: 2,01372425 (mW)

Antenna gain(typical): 3,18 (dBi)

Maximum antenna gain: 2,079696687 (numeric)

Prediction distance: 20 (cm)
Prediction frequency: 2440 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0,61 (mW/cm^2)

Power density at prediction frequency: 0,000833 (mW/cm^2)

Maximum allowable antenna gain: 31,8259969 (dBi)

Transmitter n°2 Bluetooth - BT+EDR

Maximum peak output power at the antenna terminal: 2,55 (dBm)

Maximum peak output power at the antenna terminal: 1,798870915 (mW)

Antenna gain(typical): 3,18 (dBi)

Maximum antenna gain: 2,079696687 (numeric)

Prediction distance: 20 (cm)
Prediction frequency: 2402 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 0,55 (mW/cm^2)

Power density at prediction frequency: 0,000744 (mW/cm^2)

Maximum allowable antenna gain: 31,86632545 (dBi)

Transmitter n°3 WiFi 2,4GHz

Maximum peak output power at the antenna terminal:

Maximum peak output power at the antenna terminal:

Antenna gain(typical):

Maximum antenna gain:

Prediction distance:

Prediction frequency:

MPE limit for uncontrolled exposure at prediction frequency:

18,30 (dBm)

67,60829754 (mW)

3,49 (dBi)

2,233572223 (numeric)

20 (cm)

Prediction frequency:

1 (mW/cm^2)

Power density at prediction frequency: 0,030042 (mW/cm^2)

Maximum allowable antenna gain: 18,71269855 (dBi)

Transmitter n°4 WiFi 5GHz

Maximum peak output power at the antenna terminal:

Maximum peak output power at the antenna terminal:

Antenna gain(typical):

Maximum antenna gain:

Prediction distance:

Prediction frequency:

MPE limit for uncontrolled exposure at prediction frequency:

1,56 (dBm)

57,01642723 (mW)

2,233572223 (numeric)

2,233572223 (numeric)

2,0 (cm)

4,756 (dBm)

57,01642723 (mW)

(MHz)

1,66 (dBm)

57,01642723 (mW)

4,756 (dBm)

57,01642723 (mW)

4,756 (dBm)

57,01642723 (mW)

4,756 (dBm)

6,701642723 (mW)

1,756 (dBm)

6,701642723 (mW)

1,756 (dBm)

6,701642723 (mW)

1,756 (dBm)

6,701642723 (mW)

1,756 (dBm)

1,756

Power density at prediction frequency: 0,025336 (mW/cm^2)

Maximum allowable antenna gain: 19,45269855 (dBi)