Maximum Permissible Exposure (MPE)

Standard Applicable

According to

Maximum Permissible Exposure (MPE) Evaluation

FCC: 2.4GHz Wifi mode: 802.11 b has the worst case

Maximum Permissible Exposure (MPE) Evaluation: The worst case of Average power

Power measurement: refer to Part15.247 and RSS 247 report for details.

802.11b

Cable loss = 0	Output Power		Limit
CH	Detector		(dBm)
	PK	AV	

FCC: 2.4GHz BT mode: EDR 3M has the worst case

Maximum Permissible Exposure (MPE) Evaluation: The worst case of Average power

Power measurement: refer to Part15.247 and RSS 247 report for details.

EDR 3M Mode

Simultaneous transmission mode

WiFi 2.4GHz mode + BT 2.4GHz Mode:

Prediction frequency:	2.4	(GHz)
Power density at predication frequency at 20 (cm)	0.0129000	(mW/cm^2)

Prediction frequency:	2.4	(GHz)
Power density at predication frequency at 20 (cm)	0.0113227	(mW/cm^2)
2.4GHz + 2.4GHz Power density at predication frequency at 20 (cm) distance	0.0242227	(mW/cm^2)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm^2)

The predicted power density level at 20 cm is 0.024227mW/cm^2. This is below the uncontrolled exposure limit of 1 mW/cm^2.

Zigbee

Frequency Range(MHz)	2405-2480MHz
Modulation type	OQPSK
Channel Number	16
Antenna Designation:	Chip Antenna / 3.6dBi

Zigbee is certified as FCC part15.249 then it was not considered MPE issue.

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