Product name:	UIW4010TCH
Manufacturer:	TECHNICOLOR
FCC ld:	G95-UIW4010TCH

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	at relative to an instranic redictor
	R = distance to the center of radiation of the antenna	
-		
Transmitter	n°1 (Wi-Fi: 2400-2483,5 MHz)	
	Maximum peak output power at the antenna terminal:	<u>17.11</u> (dBm)
	Maximum peak output power at the antenna terminal:	51.40436516 (mW)
	Antenna gain(typical):	<u>3.9</u> (dBi)
	Maximum antenna gain:	2.454708916 (numeric)
	Prediction distance:	<u>20</u> (cm)
	Prediction frequency:	2412 (MHz)
MPE	limit for uncontrolled exposure at prediction frequency:	1 (mW/cm^2)
	Power density at prediction frequency:	0.025103 (mW/cm^2)
		,
Note · Transmit	ter n°1 includes 2 antennas for 2.4GHz	
	imum gain for the 2 combinated antenna is equal to 3,9dBi	
	e maximum power delivered to the 2 combinated antennas	
17,11 UDIIIIS UI	e maximum power derivered to the 2 combinated antennas	
Transmitter		
Transmitter	n°2 (Wi-Fi: 5150-5850 MHz)	
	Maximum peak output power at the antenna terminal:	<u>16.60</u> (dBm)
	Maximum peak output power at the antenna terminal:	<u>45.70881896</u> (mW)
	Antenna gain(typical):	<u>5.7</u> (dBi)
	Maximum antenna gain:	3.715352291 (numeric)
	Prediction distance:	<u>20 (cm)</u>
	Prediction frequency:	5150 (MHz)
MPE	limit for uncontrolled exposure at prediction frequency:	1 (mW/cm^2)
	· · · · · · ·	
	Power density at prediction frequency:	0.033785 (mW/cm^2)
	· •··•· ••····························	
Noto : Transmit	ter n°2 includes 2 antennas for 5150-5850 MHz band	
	imum gain for these 2 combinated antennais equal to 5,7dBi	
16,6 dBm is the	maximum power delivered to the 2 combinated antennas	
Transmitter	n°4 (Bluetooth EDR: 2400-2483,5 MHz)	
	Maximum peak output power at the antenna terminal:	<u>2.77</u> (dBm)
	Maximum peak output power at the antenna terminal:	1.892343619 (mW)
	Antenna gain(typical):	<u>5.4</u> (dBi)
Maximum antenna gain: <u>3.467368505</u> (numeric)		
	Prediction distance:	20 (cm)
	Prediction frequency:	2402 (MHz)
MPE	limit for uncontrolled exposure at prediction frequency:	1 (mW/cm^2)
۲		
	Power density at prediction frequency:	0.001305 (mW/cm^2)
		0.001000 (1100/011/2)

Transmitter n°4 (Bluetooth LE: 2400-2483,5 MHz)	
Maximum peak output power at the antenna terminal:	2.33 (dBm)
Maximum peak output power at the antenna terminal:	1.710015315 (mW)
Antenna gain(typical):	5.4 (dBi)
Maximum antenna gain:	3.467368505 (numeric)
Prediction distance:	20 (cm)
Prediction frequency:	2402 (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1 (mW/cm^2)
Power density at prediction frequency:	0.001180 (mW/cm^2)

$Transmitter \ n^\circ 1 + Transmitter \ n^\circ 2 + Transmitter \ n^\circ 3 + Transmitter \ n^\circ 4:$

[Pd(1)/LPd(1)] + [Pd(2)/LPd(2)] + [Pd(3)/LPd(3)] + [Pd(4)/LPd(4)] = 0.06137<1