# **FCC ID : 2ANBW-CL7206A5**

### RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency	Electric Field	Magnetic Field	Power	Average Time					
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm <sup>2</sup> )						
(A) Limits for Occupational/Control Exposures									
300-1500			F/300	6					
1500-100000			5	6					
(B) Limits for General Population/Uncontrol Exposures									
300-1500			F/1500	6					
1500-100000			1						

## 11.1 Friis transmission formula: Pd= (Pout\*G)\ (4\*pi\*R²)

Where

Pd= Power density in mW/cm<sup>2</sup>

Pout=output power to antenna in mW

G= Numeric gain of the antenna relative to isotropic antenna

Pi=3.1416

R= distance between observation point and center of the radiator in cm (R=20cm)

Pd the limit of MPE, 1mW/cm<sup>2</sup>. If we know the maximum gain of the nd total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

## 11.2 Measurement Result

Max Antenna Gain: 9.0dBi

### BLE

Channel Freq. (MHz)	modulation	conducted power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Antenna Gain Numeric	Evaluation result (mW/cm2)	Power density Limits (mW/cm2)
902.75	ASK	21.67	21±1	22	7.94	0.2504	0.6018
915.25	ASK	21.22	21±1	22	7.94	0.2504	0.6102
927.25	ASK	20.05	21±1	22	7.94	0.2504	0.6182
Limit=F/15	500						

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