Access to the World

## FCC ID ：2AGQF－WT－SPECTRA－D4

## 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）
$\left.\begin{array}{|c|c|c|c|c|}\hline \begin{array}{c}\text { Frequency } \\ \text { Range（MHz）}\end{array} & \begin{array}{c}\text { Electric Field } \\ \text { Strength（V／m）}\end{array} & \begin{array}{c}\text { Magnetic } \\ \text { Field } \\ \text { Strength（A／m）}\end{array} & \begin{array}{c}\text { Power } \\ \text { Density（mW／cm }\end{array}\end{array} \begin{array}{c}\text { Average } \\ \text { Time }\end{array}\right]$

## 11．1 Friis transmission formula： $\mathrm{Pd}=\left(\mathrm{Pout}^{*} \mathrm{G}\right) \backslash\left(4^{*} \mathrm{pi} \mathrm{i}^{2}\right)$

Where
$\mathrm{Pd}=$ Power density in $\mathrm{mW} / \mathrm{cm}^{2}$
Pout＝output power to antenna in mW
$G=$ Numeric gain of the antenna relative to isotropic antenna
$\mathrm{Pi}=3.1416$
$R=$ distance between observation point and center of the radiator in cm Pd the limit of MPE， $1 \mathrm{~mW} / \mathrm{cm}^{2}$ ，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．
RF Exposure Information：The radiated output power of this device meets the limits of FCC radio frequency exposure limits．This device should be operated with a minimum separation distance of 20 cm （ 8 inches）between the equipment and a person＇s body．

## 11．2 Measurement Result

Antenna gain： 0 dBi

| modulation | Channel <br> Freq． <br> $(\mathrm{MHz})$ | Measured <br> power <br> $(\mathrm{dBm})$ | Tune－up <br> power <br> $(\mathrm{dBm})$ | Max tune－ <br> up power <br> $(\mathrm{dBm})$ | Antenna <br> Gain <br> Numeric | Evaluation <br> result <br> $(\mathrm{mW} / \mathrm{cm} 2)$ | Power <br> density Limits <br> （mW／cm2 $)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2402 | -0.29 | -2 to 0 | 0 | 1 | 0.0002 | 1 |
|  | 2441 | 0.22 | -1 to 1 | 1 | 1 | 0.0003 | 1 |
|  | 2480 | 0.43 | -1 to 1 | 1 | 1 | 0.0003 | 1 |
|  | 2402 | 0.52 | -1 to 1 | 1 | 1 | 0.0003 | 1 |
| 8DPSK | 2480 | 1.23 | 0.98 | -1 to 1 | 1 | 1 | 0.0003 |

