



## 2.10 Maximum Permissible Exposure (MPE)

### 2.10.1 Test Limits

The EUT shows compliance to the requirements of this section, which states the MPE limits for general population / uncontrolled exposure are as shown below:

| Frequency Range (MHz)                  | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm <sup>2</sup> )    | Average Time (min) |
|--|-------------------------------|-------------------------------|--|--------------------|
| 0.3 - 1.34                             | 614                           | 1.63                          | 100 <sup>Note 2</sup>                  | 30                 |
| 1.34 - 30                              | 824 / f                       | 2.19 / f                      | 180 / f <sup>2</sup> <sup>Note 2</sup> | 30                 |
| 30 - 300                               | 27.5                          | 0.073                         | 0.2                                    | 30                 |
| 300 - 1500                             | -                             | -                             | f / 1500                               | 30                 |
| 1500 - 100000                          | -                             | -                             | 1.0                                    | 30                 |
| Notes                                  |                               |                               |  |                    |
| 1. f = frequency in MHz                |                               |                               |  |                    |
| 2. Plane wave equivalent power density |                               |                               |  |                    |



### Maximum Permissible Exposure Computation

Referring to the measured maximum peak power of the Equipment Under Test (EUT) below:

| Channel | Channel Frequency (GHz) | Maximum Peak Power (mW) |
|---------|-------------------------|-------------------------|
| Lower   | 2.402                   | 0.63                    |
| Middle  | 2.440                   | 0.41                    |
| Upper   | 2.480                   | 0.43                    |

The measured maximum RF power of the EUT is 0.63mW.

Applying Option A in § 1.1307(b)(3)(i)(A)

Since the available maximum time-averaged power of the EUT is no more than 1mW, the EUT is MPE exempted, and no routine evaluation is required.

