



## 1. Limit for Portable Equipment Exposure

| Frequency   | 1-g SAR |
|-------------|---------|
| 100MHz-6GHz | 3.0     |

According to KDB 447498 D01 General RF Exposure Guidance v06 and part 2.1093

For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR, where

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

## 2. Estimation Result

Model: YK14

| Frequency (MHz)                                                                                                                                                                                                                                                                                                 | PK Output Power(dBm) | Output Power(mW) | Test Separation Distance (mm) | Measurement Result | 1-g SAR |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------|-------------------------------|--------------------|---------|
| 433.92                                                                                                                                                                                                                                                                                                          | -12.2                | 0.0608           | 5                             | 0.008              | 3.0     |
| <p>Note:</p> <ol style="list-style-type: none"><li>use the maximum E-field strength(84.86dBuV/m) for the RF exposure evaluation</li><li><math>E(\text{dBuV/m}) = \text{EIRP}(\text{dBm}) - 95.2</math> for distance 3m<br/>so the <math>\text{EIRP} = 83\text{dBuV/m} - 95.2 = -12.2\text{dBm}</math></li></ol> |                      |                  |                               |                    |         |

Model: YK20

| Frequency (MHz)                                                                                                                                                                                                                                                                                                     | PK Output Power(dBm) | Output Power(mW) | Test Separation Distance (mm) | Measurement Result | 1-g SAR |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------|-------------------------------|--------------------|---------|
| 433.92                                                                                                                                                                                                                                                                                                              | -10.83               | 0.083            | 5                             | 0.011              | 3.0     |
| <p>Note:</p> <ol style="list-style-type: none"><li>use the maximum E-field strength(84.86dBuV/m) for the RF exposure evaluation</li><li><math>E(\text{dBuV/m}) = \text{EIRP}(\text{dBm}) - 95.2</math> for distance 3m<br/>so the <math>\text{EIRP} = 84.37\text{dBuV/m} - 95.2 = -10.83\text{dBm}</math></li></ol> |                      |                  |                               |                    |         |

-----The End-----