

# **FCC RF EXPOSURE REPORT**

**FCC ID: 2AFG6-RK3288**

**Project No. : 1509C262**  
**Equipment : Android Main Board**  
**Model : B.RK3288.1**  
**Applicant : Guangzhou Shirui Electronics Co.,Ltd**  
**Address : 192Kezhu Road, Scienteck Park, Guangzhou**  
**Economic & Technology Development**  
**District, Guangzhou, Guangdong, China**  
**According: : FCC Guidelines for Human Exposure IEEE**  
**C95.1**

**B T L I N C .**

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## MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain(dBi) |
|------|-------|------------|--------------|-----------|-----------|
| 1    | N/A   | N/A        | Dipole       | N/A       | 2.55      |

## TEST RESULTS

|                |                      |                    |            |
|----------------|----------------------|--------------------|------------|
| EUT :          | Android Main Board   | Model Name :       | B.RK3288.1 |
| Temperature :  | 25 °C                | Relative Humidity: | 55 %       |
| Test Voltage : | AC 120V/60Hz         |                    |            |
| Test Mode :    | TX B Mode_CH01/06/11 |                    |            |

| Antenna Gain (dBi) | Antenna Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 2.55               | 1.7989                 | 13.35                   | 21.6272                | 0.00774373                              | 1                                                | Complies    |
| 2.55               | 1.7989                 | 14.14                   | 25.9418                | 0.00928860                              | 1                                                | Complies    |
| 2.55               | 1.7989                 | 14.3                    | 26.9153                | 0.00963719                              | 1                                                | Complies    |

|                |                      |                    |            |
|----------------|----------------------|--------------------|------------|
| EUT :          | Android Main Board   | Model Name :       | B.RK3288.1 |
| Temperature :  | 25 °C                | Relative Humidity: | 55 %       |
| Test Voltage : | AC 120V/60Hz         |                    |            |
| Test Mode :    | TX G Mode_CH01/06/11 |                    |            |

| Antenna Gain (dBi) | Antenna Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 2.55               | 1.7989                 | 20.88                   | 122.4616               | 0.04384806                              | 1                                                | Complies    |
| 2.55               | 1.7989                 | 21.68                   | 147.2313               | 0.05271696                              | 1                                                | Complies    |
| 2.55               | 1.7989                 | 21.83                   | 152.4053               | 0.05456955                              | 1                                                | Complies    |

|                |                        |                    |            |
|----------------|------------------------|--------------------|------------|
| EUT :          | Android Main Board     | Model Name :       | B.RK3288.1 |
| Temperature:   | 25 °C                  | Relative Humidity: | 55 %       |
| Test Voltage : | AC 120V/60Hz           |                    |            |
| Test Mode :    | TX N20 Mode_CH01/06/11 |                    |            |

| Antenna Gain (dBi) | Antenna Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 2.55               | 1.7989                 | 18.52                   | 71.1214                | 0.02546539                              | 1                                                | Complies    |
| 2.55               | 1.7989                 | 19.89                   | 97.4990                | 0.03491004                              | 1                                                | Complies    |
| 2.55               | 1.7989                 | 20.02                   | 100.4616               | 0.03597082                              | 1                                                | Complies    |

|                |                        |                    |            |
|----------------|------------------------|--------------------|------------|
| EUT :          | Android Main Board     | Model Name :       | B.RK3288.1 |
| Temperature:   | 25 °C                  | Relative Humidity: | 55 %       |
| Test Voltage : | AC 120V/60Hz           |                    |            |
| Test Mode :    | TX N40 Mode_CH03/06/09 |                    |            |

| Antenna Gain (dBi) | Antenna Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 2.55               | 1.7989                 | 19.27                   | 84.5279                | 0.03026568                              | 1                                                | Complies    |
| 2.55               | 1.7989                 | 19.87                   | 97.0510                | 0.03474964                              | 1                                                | Complies    |
| 2.55               | 1.7989                 | 19.67                   | 92.6830                | 0.03318565                              | 1                                                | Complies    |

Note: the calculated distance is 20 cm.