



## Statement of compliance to Maximum Permissible Exposure (MPE) No. 170603051SHA-003

Applicant : Alcatel-Lucent Shanghai Bell Co., Ltd.

388-389#, Ningqiao Road, Pudong Jinqiao, Shanghai, China

Manufacturing site : Alcatel-Lucent Shanghai Bell Co., Ltd.

388-389#, Ningqiao Road, Pudong Jinqiao, Shanghai, China

Product Name : Digital Home CPE

Type/Model: A-240Z-A

EMA Code : 3FE 46615 AAAA

According to § 2.1091, § 2.1093 and § 1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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Reviewed by:





Power density (S) is calculated according to the formula:

$$S = PG / (4 \pi R^2)$$

Where S = power density in mW/cm<sup>2</sup>

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

| Frequency band | Power |        | Antenna Gain |           | R    | S                     | Limits                |
|----------------|-------|--------|--------------|-----------|------|-----------------------|-----------------------|
| (MHz)          | dBm   | mW     | dBi          | (Numeric) | (cm) | (mW/cm <sup>2</sup> ) | (mW/cm <sup>2</sup> ) |
| 5250 - 5350    | 23.85 | 242.66 | 3.0          | 2.0       | 20   | 0.097                 | 1                     |
| 5470 - 5725    | 23.63 | 230.67 | 3.0          | 2.0       | 20   | 0.092                 | 1                     |

| Frequency band | Max Permit Power with tolerance |     | Ante | enna Gain | R    | S                     | Limits                |
|----------------|---------------------------------|-----|------|-----------|------|-----------------------|-----------------------|
| (MHz)          | dBm                             | mW  | dBi  | (Numeric) | (cm) | (mW/cm <sup>2</sup> ) | (mW/cm <sup>2</sup> ) |
| 5180 - 5240    | 24.00                           | 250 | 3.0  | 2.0       | 20   | 0.100                 | 1                     |
| 5745 - 5825    | 24.00                           | 250 | 3.0  | 2.0       | 20   | 0.100                 | 1                     |

Note: 1 mW/cm<sup>2</sup> from 1.310 Table 1



## **Appendix I**

## **Definition below must be outlined in the User Manual:**

To satisfy FCC RF exposure requirements, a separation distance of **20** cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.