

## 8. RF Exposure Report

### 8.1. Limit

According to §15.247(i), 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 levels in excess of the Commission's guidelines. See KDB 447498 D01 General RF Exposure Guidance V05.

According to section 2.5.1 of RSS-102, above 2.2 GHz and up to 3 GHz inclusively, and with output power (i.e. the higher of the conducted or radiated (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 20mW for general public use and 100 mW for controlled use, SAR evaluation is not required.

### 8.2. EUT Specification

| Frequency Bands     | Max technically possible<br>PK Conducted Power(dBm) |        |               | Max. Antenna<br>Gain (dBi) | Max. EIRP<br>(mW) |
|---------------------|---|--------|---------------|----------------------------|-------------------|
|                     | Port.1  | Port.2 | Port.1+Port.2 |                            |                   |
| 2.412~2.462GHz Band | 4.5   | 4.5    | 7.51          | 2.0                        | 8.93              |

Maximum measured transmitter power: 802.11b

| PK Conducted Power<br>(dBm) |        |               | Max. Antenna Gain (dBi) | Max. EIRP<br>(mw) | SAR<br>Limitation |
|-----------------------------|--------|---------------|-------------------------|-------------------|-------------------|
| Port.1                      | Port.2 | Port.1+Port.2 |                         |                   |                   |
| 4.35                        | 4.21   | 7.29          | 2.0                     | 8.49              | 10mW              |

Maximum measured transmitter power: 802.11g

| PK Conducted Power<br>(dBm) |        |               | Max. Antenna Gain (dBi) | Max. EIRP<br>(mw) | SAR<br>Limitation |
|-----------------------------|--------|---------------|-------------------------|-------------------|-------------------|
| Port.1                      | Port.2 | Port.1+Port.2 |                         |                   |                   |
| 4.01                        | 3.89   | 6.96          | 2.0                     | 7.87              | 10mW              |

Maximum measured transmitter power: 802.11n HT20

| PK Conducted Power<br>(dBm) |        |               | Max. Antenna Gain (dBi) | Max. EIRP<br>(mw) | SAR<br>Limitation |
|-----------------------------|--------|---------------|-------------------------|-------------------|-------------------|
| Port.1                      | Port.2 | Port.1+Port.2 |                         |                   |                   |
| 3.93                        | 3.85   | 6.90          | 2.0                     | 7.76              | 10mW              |

Maximum measured transmitter power: 802.11n HT40

| PK Conducted Power<br>(dBm) |        |               | Max. Antenna Gain (dBi) | Max. EIRP<br>(mw) | SAR<br>Limitation |
|-----------------------------|--------|---------------|-------------------------|-------------------|-------------------|
| Port.1                      | Port.2 | Port.1+Port.2 |                         |                   |                   |
| 3.46                        | 3.34   | 6.41          | 2.0                     | 6.93              | 10mW              |

### 8.3. Test Results

Threshold at which no SAR required

Maximum Tx Output power for 2.4GHz Band(2.412~2.462GHz) is 8.49mW EIRP.

The max. technically possible output power is 8.93mW(EIRP).

**Conclusion:** No SAR is required.