



## RF EXPOSURE TEST

### Portable device

According to §15.247(e)(i) and §1.1307(b)(1), 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.

According to KDB 447498 (2)(a)(i)

For portable device, the power limit is  $60/f$  (in GHz) mW

For limit  $60/f$  is equal:

$$60/2.412 = 24.87 \text{ mW}$$

$$60/2.437 = 24.62 \text{ mW}$$

$$60/2.462 = 24.37 \text{ mW}$$

Maximum measured transmitter power

| <b>TX 802.11b Mode</b>     |           |                    |              |              |              |
|----------------------------|-----------|--------------------|--------------|--------------|--------------|
| Test Channel               | Frequency | Peak output power. | Antenna Gain | EIRP         | LIMIT        |
|                            | (MHz)     | (dBm)              | dBi          | dBm          | mW           |
| CH01                       | 2412      | 9.52               | 2.0          | 11.52        | 14.19        |
| CH06                       | 2437      | 9.39               | 2.0          | 11.39        | 13.77        |
| CH11                       | 2462      | 9.65               | 2.0          | 11.65        | 14.62        |
| <b>TX 802.11g Mode</b>     |           |                    |              |              |              |
| CH01                       | 2412      | 9.13               | 2.0          | 11.13        | 12.97        |
| CH06                       | 2437      | 8.97               | 2.0          | 10.97        | 12.50        |
| CH11                       | 2462      | 8.45               | 2.0          | 10.45        | 11.09        |
| <b>TX 802.11n/20M Mode</b> |           |                    |              |              |              |
| CH01                       | 2412      | 9.71               | 2.0          | 11.71        | 14.82        |
| CH06                       | 2437      | 8.49               | 2.0          | 10.49        | 12.50        |
| CH11                       | 2462      | 8.32               | 2.0          | 10.32        | 10.76        |
| <b>TX 802.11n/40M Mode</b> |           |                    |              |              |              |
| CH03                       | 2422      | 9.66               | 2.0          | 11.66        | 14.65        |
| CH06                       | 2437      | 9.72               | 2.0          | 11.72        | 14.85        |
| CH11                       | 2452      | 9.77               | 2.0          | <b>11.77</b> | <b>15.03</b> |

To Tune Up information

max possible output power (PK) :  $10 \pm 1$  dbm

| MAX possible Conducted Power (dBm) | Max Antenna Gain (dBi) | EIRP (dBm) | EIRP (mW) | limit(mW) |
|------------------------------------|------------------------|------------|-----------|-----------|
| 11                                 | 2                      | 13         | 19.95     | 24.37     |

The max.output power E.I.R.P is  $19.95 \text{ mW} < 24.37 \text{ mW}$

**Conclusion:** No SAR is required.