

RF Exposure

1. Regulation

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 § 1.1307(b)(1) of this Chapter.

KDB447498 was used as the guidance.

According to §1.1310 and §2.1093 RF exposure is calculated.

2. Result

| Frequency (MHz) | Target Power (dBm) | Tune up Tolerance (dB) | Max tune up Power (dBm) | Max tune up Power (mW) | Min. test separation Distance (mm) | SAR Test exclusion thresholds ≤ 3 for 1-g SAR |
|-----------------|--------------------|------------------------|-------------------------|------------------------|------------------------------------|--|
| 2 425 | 0.00 | ±2 | 2.00 | 1.58 | 5.00 | 0.493 61 |

NOTE 1 : Measured Power : 1.02 dBm

NOTE 2 : SAR test exclusion thresholds

$$= [(Max\ tune-up\ Power,\ mW)/(min.\ test\ separation\ distance,\ mm)] \cdot [\sqrt{f(GHz)}]$$
$$= (1.58 / 5.00) / (\sqrt{2.425}) = 0.493\ 61$$

3. RF Exposure Compliance Issue

Therefore, EUT is not required the SAR Evaluation.