

RF exposure evaluation

The RF exposure evaluation was calculated as below:

1) For WIFI: The maximum output power for antenna is 9.35dBm (8.61mW) at 2462MHz of 802.11b mode. (2dBi antenna gain, with 1.58 numeric antenna gain.).

For BT3.0+EDR: The maximum output power for antenna is -4.13dBm (0.39mW) at 2441MHz of GFSK mode. (2dBi antenna gain, with 1.58 numeric antenna gain.).

2) For Bluetooth device or fixed location transmitters, no SAR consideration applied.

3) Per KDB 447498 D01v05r02, the 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$$
 for 1-g SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- When the minimum test separation distance is < 5 mm, a distance of 5 mm according is applied to determine SAR test exclusion.

For WIFI:

- The result is rounded to one decimal place for comparison

| Channel | Frequency (GHz) | Power (dBm) | Max. Power (mW) | Test distance (mm) | Result | exclusion thresholds for 1-g SAR |
|---------|-----------------|-------------|-----------------|--------------------|--------|----------------------------------|
| CH 11 | 2.462 | 9.35 | 8.61 | 5 | 2.7 | 3.0 |

For BT3.0+EDR:

- The result is rounded to one decimal place for comparison

| Channel | Frequency (GHz) | Power (dBm) | Max. Power (mW) | Test distance (mm) | Result | exclusion thresholds for 1-g SAR |
|---------|-----------------|-------------|-----------------|--------------------|--------|----------------------------------|
| CH 39 | 2.441 | -4.13 | 0.39 | 5 | 0.12 | 3.0 |

- Base on the calculation value, so SAR test evaluation is not required.
- The public is not exposed to radio frequency energy level in excess of the Commission's guideline.