



APPENDIX J

: RF EXPOSURE EVALUATION



According to KDB 447498 D01 General RF Exposure Guidance v06.

1. SAR test exclusion threshold: IH Function

Result: The IH hotplate is an ISM device intended for induction heating and does not perform any communication transmissions; therefore, it is not subject to SAR exclusion requirements.

2. Output power into antenna & RF exposure evaluation distance

BT LE

Operating Frequency (MHz)	Prediction distance (cm)	Power Density (mW/cm ²)	Limits (mW/cm ²)
2 402 ~ 2 480	4.0	0.00088	1.0

2.4G WLAN

Operating Frequency (MHz)	Prediction distance (cm)	Power Density (mW/cm ²)	Limits (mW/cm ²)
2 412 ~ 2 472	4.0	0.01785	1.0

Note:

- The power density Pd (5th column) at a distance of 20 cm calculated from the friis transmission formula is far below the limit of 1 mW/cm²
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- This equipment should be installed and operated with minimum 20 cm between the radiator and your body.
- The antenna gain of this transmitter is less than 6 dBi and must not be collocated or operating in conjunction with any other antenna or transmitter unless authorized to do so by the FCC.

Conclusion: No SAR is required.

3. Simultaneous transmission of RF Exposure test exclusion for worst case configuration.

RF Function	Power Density (mW/cm ²)	Limits (mW/cm ²)
BT LE	0.00088	1.0
2.4G WLAN	0.01785	1.0

Confirm the sum result of individual MPEs ratio is ≤ 1.0 ;

BT LE + 2.4G WLAN: $(0.00088 / 1.0) + (0.01785 / 1.0) = 0.019 \leq 1.0$

So, this device meets the KDB447498 D01 v06 section 7.2 requirement of “Simultaneous transmission MPE test exclusion”.