



APPENDIX L
: RF EXPOSURE EVALUATION



RF Exposure Evaluation

1.1 Applicable Standard

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 DS01 Ver 05, no Hand SAR required if power is lower than the following threshold:
Device is hand-operated device; its antenna will be less than 5cm, but more than 5 cm from human body.
So Body SAR is not required.

TRG-100

Min. transmitting frequency	: 2425 MHz
Min. test separation distance	: 0 mm
Max. power with turn-up tolerance	: 4.920 dBm
Antenna gain	: 1.467 dBi
Measured power (EIRP)	: 6.387 dBm (4.352 mW)

Step 1)

SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm

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

Result value

1.36 ≤ 3 , for 1 g SAR

Conclusion: No SAR is required.

No Simultaneous transmission occurs.