

RF Exposure Evaluation

E.U.T. : Transmitter

Model Number : PE51M

Applicant : Nutek Corporation

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Approved: 

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1 RF Exposure Evaluation

Portable Device

According to §15.247(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_D01_V06 4.3.1(a) SAR exclusion thresholds by:
 [max. power of channel, including tune-up tolerance, mW]/(min, test separation distances, mm)]* $[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Maximum measured transmitter power

Frequency Range (MHz)	Maximum measured transmitter power (dBm)	Tune-up power tolerance (dB)	Total Maximum power (dBm)	Total Maximum power (mW)
909.6	6.16	(±)2	8.16	6.546
913.8	6.00	(±)2	8.00	6.310
918.0	5.75	(±)2	7.75	5.957

$$(6.546/5)*(\sqrt{0.9096})=1.249 \leq 7.5$$

Conclusion:

No SAR is required.

SIMULTANEOUS TRANSMISSION EVALUATION

N/A