

Date: November 12, 2004  
Control No: PCCA-04-F001  
Assessment No: AN04T4337

Federal Communications Commission  
7435 Oakland Mills Road  
Columbia, MD 21046 USA

Subject: Original Certification Application for Frequency Hopping Spread Spectrum Transmitter  
Panasonic 2.4 GHz FHSS Cordless Telephone System, Model KX-TG2431 Family  
TCB FCC Certification for FCC ID: ACJ96NKX-TG2431

To Whom It May Concern:

We hereby appoint Compliance Certification Services to act as our agent in the preparation for equipment authorization under FCC Rules. Enclosed, find Matsushita Electric Industrial Co., Ltd.'s original application for the subject transmitter. This product is in compliance with Part 15, Subpart C and Section 15.247. In accordance with provisions of Section 0.457(d) of the Commission's Rules and Section 552(b)(4) of the Freedom of Information Act, we request confidentiality for filed Exhibits E, F, I and Appendix, which contains Description of Circuitry, Schematic Diagrams, FHSS Operation of Description and Overview of Frequency Hopping Algorithm. These exhibits contain proprietary, confidential and trade secrets material, which would not be routinely made available for public inspection.

The subject product is cordless telephone system with answering machine feature, which has mobile base unit and portable handset unit. The transceiver portion of this product uses frequency hopping spread spectrum transmitter with FSK modulation with operation within 2400.914 ~ 2480.292 MHz. The base unit and handset unit have 74.1mW and 44.7mW peak conducted RF output power. The base unit uses left and right antenna with nominal 2.15dBi antenna gain and the handset unit uses inverted F-type antenna with nominal 0 dBi antenna gain.

The handset unit is classified as portable and SAR test report was generated on representative handset model KX-TGA242. The SAR test report was generated with RF output power at 16.70 dBm (46.7mW) peak conducted with worst case 10% duty cycle. The worst-case SAR test results for handset was 0.0465 mW/g (head configuration) and 0.0317mW/G (body-worn configuration).

The base unit is classified as mobile and its Operating Instructions will contain the following type FCC RF Exposure Warning: "This product complies with FCC radiation exposure limits set forth for an uncontrolled environment. To comply with FCC RF exposure requirements the base unit must be installed and operated with its antenna located 20 cm or more between antenna and all person's body (excluding extremities of hands, wrist and feet). The handset unit may be carried and operated with only the specific provided belt-clip. Other non-tested belt-clips or similar body-worn accessories may not comply and must be avoided. The base and handset units must not be co-located or operated in conjunction with any other antenna or transmitter."

This product's base was Part 68 TCB certified by CCL under identification number US: ACJW401BKX-TG2431.

Sincerely yours,

  
Richard Mullen  
Group Manager