RF Exposure Evaluation

Conclusion:

It was determined that this device is exempt from SAR testing based on an analysis of the time-averaged rf output power. The threshold was determined from KDB 447498 v5, 4.3.1 "Standalone SAR test exclusion considerations".

FCC ID.: AMWUN368R

Model(s): D1660v, D1680v, and DCX160v

Manufacturer: Uniden America Corporation

Type of equipment: DECT handset

Operating frequency: 1921.536 – 1928.448 MHz

Maximum rf output power (conducted): 19.15 dBm (82.2 mW)

Duty Cycle: 0.4 ms / 10 ms = 0.04

Maximum source-based time-averaged power: 3.29 mW

Tuneup tolerance: +/-2 dB

Maximum power with tuneup tolerance: 5.2 mW

Calculation of threshold per KDB 447498 D01 General RF Exposure Guidance v05, 4.3.1(1)

"The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤50 mm are determined by:"

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] * $[\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f_{(GHz)}$ is the rf channel transmit frequency in GHz)
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison.

For this case;

$$f_{\text{(GHz)}} = 1.921536$$

Minimum separation distance = 5 mm

Maximum power = 5 mW

Therefore;

$$\left(\frac{5mW}{5mm}\right) * \sqrt{1.921536} = 1.4$$

1.4 < 3.0 and <7.5, therefore the equipment is excluded from SAR testing.

Values are from Nemko test report no. 10236228_trf2

Evaluated by: _____ Date: 19 March, 2013

David Light, Sr. Wireless Test Engineer

Approved by: _____ Date: 19 March, 2013

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