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Radio Frequency Exposure Information For VTech 6823 / 6863 5.8GHz Cordless Handset

Handset (Tx: 2.4GHz; Rx: 5.8GHz)

Readings from test report :

- (1) Max. Output Power -- 76 mW (18.8 dBm)
- (2) Handset Antenna Gain -- 0dBi.
- (3) Duty cycle -- $833\mu\text{s} / 10\text{ms} = 8.33\%$ (measured in single slot transmission)

Under the worst environment with interference, dual slot diversity gives the max. duty cycle on the handset Tx (ie. $8.33\% \times 2$ or 16.66%)

Hence, taking the max. power output & max. duty cycle, the average effective output power or EIRP is :

$$76 \text{ mW} \times 16.66\% = 12.66 \text{ mW}$$

Conclusion : The average effective output power is much lower than the 24mW level (60/f mW) which starts to require SAR testing. Hence, there is no RF safety exposure concerns on the handset.

Provided by :

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