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Radio Frequency Exposure Information

For VTech 5825 / 5850

Cordless Handset

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

Readings from test report :

- (1) Max. Output Power = 78.7 mW (19 dBm)
- (2) Duty cycle – $917\mu\text{s} / 10\text{ms} = 9.17\%$ (measured in single slot transmission)

Under the worst environment with interference, dual slot diversity gives the max. duty cycle on the handset Tx (ie. $9.17\% \times 2$ or 18.34%)

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

$$78.7 \text{ mW} \times 18.34\% = 14.4 \text{ mW}$$

Conclusion : The average effective output power is much lower than the 50mW level (Supplement C, Table 1) which starts to require SAR testing. Hence, there is no RF exposure concerns on handset.