



RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Remote control model car
Test Model	SCY-16101
Series Model	SCY-16102, SCY-16103, SCY-16201, SCY-16301, SCY-16302, SCY-16303, SCY-16304, SCY-16305, SCY-16306, SCY-16104, SCY-16105, SCY-16106, SCY-16107, SCY-16108, SCY-16109, SCY-16101PRO, SCY-16102PRO, SCY-16103PRO, SCY-16104PRO, SCY-16105PRO, SCY-16106PRO, SCY-16107PRO, SCY-16108PRO, SCY-16109PRO, SCY-16202, CY-16201PRO, SCY-16202PRO, SCY-16307, SCY-16308, SCY-16309, SCY-16301PRO, SCY-16302PRO, SCY-16303PRO, SCY-16304PRO, SCY-16305PRO, SCY-16306PRO, SCY-16307PRO, SCY-16308PRO, SCY-16309PRO
FCC ID	2A5ROSCY-16101

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v06

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:

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

Where $f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

3. CALCULATION

$P_t = -5.591 \text{ dBm} = 0.28 \text{ mW}$

The value of the Maximum output power P_t is referred to the test report of the CFR47

§15.247.

The result for RF exposure evaluation $\text{SAR} = (0.28 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.475(\text{GHz})}] = 0.09 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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