

# SAR Test Exclusion Evaluation

FCC ID: AZPTM18

Product Name: Radio Control

Model No: TM-18

The standalone SAR test exclusion shall be refer to FCC § 1.1307 (b)(3)(i)(B) SAR-Based exemption which device determined the distance from antenna to user/bystander. The formula is

$$P_{th} \text{ (mW)} = ERP_{20cm} (d / 20)^x \quad \text{for distance } d \leq 20\text{cm}$$

$$P_{th} \text{ (mW)} = ERP_{20cm} \quad \text{for distance } 20\text{cm} < d \leq 40\text{cm}$$

where

$$x = -\log_{10} \left( \frac{60}{ERP_{20cm} \sqrt{f}} \right)$$

$$ERP_{20cm} \text{ (mW)} \quad 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz: } 2040f$$

$$1.5 \text{ GHz} \leq f \leq 6 \text{ GHz: } 3060$$

$$F = \text{GHz}$$

$P_{th}$  (mW) = available maximum time-average power(matched conducted) or effective radiated power, whichever is greater.

D = the separation distance (cm)

Pursuant to KDB 447498 D04 Interim General RF Exposure Guidance v01 that SAR testing is not required when EUT has output power related to distance satisfy with following table.

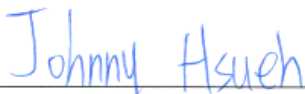
Frequency (MHz)	Tune-up max power (mW)	Min. distance (mm)	Exclusion Power, Pth (mW)	10g extremity SAR exclusion power, Pth10g(mW)
904.6	25.12	120	872.6	2181.5

**Note:** 10-g Extremity SAR Test Exclusion Power Thresholds are 2.5 times higher than the 1-g SAR Test Exclusion Thresholds indicated above. These thresholds do not apply, by extrapolation or other means, to occupational exposure limits.

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Since the exclusion threshold calculated is 25.12 < **2181.5** thus SAR test is exclusion.

Sincerely Yours,



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# Antenna to user distance

