

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

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|---------------------|-------------------------------------|
| Product Description | 1:24 RC Cat 336 Hydraulic Excavator |
| Model Name | 25001 |
| FCC ID | 2AUJF-25001 |

2. EVALUATION METHOD

According to 447498 General RF Exposure Guidance.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 5 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

According to the follow transmitter output power (P_t) formula :

According to the report NTC-ER2003044,

$P_t = 90.13 \text{ dBuV/m @ } 3\text{m} = 0.316 \text{ mW}$

The result for RF exposure evaluation

$\text{SAR} = (\text{max. tune-up power}(0.316\text{mW}) / 5\text{mm}) \cdot [\sqrt{2.44(\text{GHz})}] = 0.099 < 3.0$ for 1-g SAR

4. CONCLUSION

The SAR evaluation is not required.