

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	R/C CAR
Test Model	9300E
Series Model	9200, 9200E, 9201, 9201E, 9201-1, 9201-1E, 9202, 9202E, 9203, 9203E, 9204, 9204E, 9205, 9205E, 9206, 9206E, 9207, 9207E, 9208, 9208E, 9209, 9209E, 9210, 9210E, 9500, 9500E, 9501, 9501E, 9502, 9502E, 9503, 9503E, 9504, 9504E, 9505, 9505E, 9506, 9506E, 9507, 9507E, 9508, 9508E, 9509, 9509E, 9510, 9510E, 9300, 9301, 9301E, 9301-1, 9301-1E, 9302, 9302E, 9303, 9303E, 9303-1, 93031E, 9304, 9304E, 9305, 9305E, 9306, 9306E, 9307, 9307E, 9308, 9308E, 9309, 9309E, 9310, 9310E, 9311, 9311E, 9312, 9312E, 9313, 9313E, 9314, 9314E, 9315, 9315E, 9800, 9800E, 9801, 9801E, 9801-1, 9801-1E, 9802, 9802E, 9803, 9803E, 9803-1, 9803-1E, 9804, 9804E, 9805, 9805E, 9806, 9806E, 9807, 9807E, 9808, 9808E, 9809, 9809E, 9810, 9810E, 001E, 002E, 003E, 004E, 005E, 006E, 007E, 008E, 009E, 010E, 200E, 201E, 202E, 203E, 204E, 205E, 206E, 207E, 208E, 209E, 210E, 300E, 301E, 302E, 303E, 304E, 305E, 306E, 307E, 308E, 309E, 310E, 600E, 601E, 602E, 603E, 604E, 605E, 606E, 607E, 608E, 609E, 610E, 8000, 8000E, 8001, 8001E, 8002, 8002E, 8003, 8003E, 8004, 8004E, 8005, 8005E, 8006, 8006E, 8007, 8007E, 8008, 8008E, 8009, 8009E, 8010, 8010E, 8600, 8600E, 8601, 8601E, 8602, 8602E, 8603, 8603E, 8604, 8604E, 8605, 8605E, 8606, 8606E, 8607, 8607E, 8608, 8608E, 8609, 8609E, 8610, 8610E, 9000, 9000E, 9001, 9001E, 9002, 9002E, 9003, 9003E, 9004, 9004E, 9005, 9005E, 9006, 9006E, 9007, 9007E, 9008, 9008E, 9009, 9009E, 9010, 9010E, 9011, 9011E, 9012, 9012E, 9013, 9013E, 9014, 9014E, 9015, 9015E, 9900, 9900E, 9901, 9901E, 9901-1, 9901-1E, 9902, 9902E, 9903, 9903E, 9903-1, 9903-1E, 9904, 9904E, 9905, 9905E, 9906, 9906E, 9907, 9907E, 9908, 9908E, 9909, 9909E, 9910, 9910E, S626, S626E, S636, S636E, S656, S656E, S666, S666E, S676, S676E, S686, S686E, S696, S696E, S727, S727E, S737, S737E, S757, S757E, S767, S767E, S777, S777E, S787, S787E, S797, S797E, 9600, 9600E, 9600-1, 9600-1E, 9601, 9601E, 9601-1, 9601-1E, 9602, 9602E, 9602-1, 9602-1E, 9603, 9603E, 9603-1, 9603-1E, 9604, 9604E, 9604-1, 9604-1E, 9605, 9605E, 9605-1, 9605-1E, 9606, 9606E, 9606-1, 9606-1E, 9607, 9607E, 9607-1, 9607-1E, 9608, 9608E, 9608-1, 9608-1E, 9609, 9609E, 9609-1, 9609-1E, 9610, 9610E, 9610-1, 9610-1E
FCC ID	2AM0Z9300E19880224

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

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3. CALCULATION

$$P_t = -1.541 \text{ dBm} = 0.70 \text{ mW}$$

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 $\text{SAR} = (0.70 \text{ mW} / 5 \text{ mm}) \cdot [\sqrt{2.405} (\text{GHz})] = 0.22 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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