RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	RC Car
Test Model	S9501A
Series Model	S9501, S9501B, S9501C, S9501D, S9502, S9502A, S9502B, S9502C, S9502D, S9503, S9503A, S9503B, S9503C, S9503D, S9504, S9504A, S9504B, S9504C, S9504D, S9505, S9505A, S9505B, S9505C, S9505D, QY1841, QY1841A, QY1841B, QY1841C, QY1841D, QY1842, QY1842A, QY1842B, QY1842C, QY1842D, QY1843, QY1843A, QY1843B, QY1843C, QY1843D, QY1845, QY1845A, QY1845B, QY1845C, QY1845D, QY1846, QY1846A, QY1846B, QY1846C, QY1846D, QY1847, QY1847A, QY1847B, QY1847C, QY1847D, QY1848, QY1848A, QY1848B, QY1848C, QY1848D, QY1849, QY1849A, QY1849B, QY1849C, QY1849D, S9301, S9301A, S9301B, S9301C, S9301D, S9302, S9302A, S9302B, S9302C, S9302D, S9303, S9303A, S9303B, S9303C, S9303D, S9304, S9304A, S9304B, S9304C, S9304D, QY1851A, QY1852A, QY1853A, QY1855A, QY1856A, QY1858A, QY1860, QY1861, QY1862, QY1863, S8201, S8202, S8203, S8204, S8205, S8206, QY1921, QY1921A, QY1921B, QY1921C, QY1921D, QY1922, QY1922A, QY1922B, QY1922C, QY1922D
FCC ID	2ARXWSINOVAN07

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:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Where f(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=-1.638dBm=0.69mW

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 SAR=(0.69mW /5mm) .[√2.475(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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