

Answer 7



Derivation of Validation Targets

Figure A

Assuming the validation targets were related linearly with frequency, we characterized the validation targets with frequency in the above scatter plot. A linear extrapolation was then used to derive an approximate validation target for 5300. By substitution method, we obtained the following results:

For SAR normalized to a forward power of 1 W,

5300 MHz: Local SAR = 248.64 W/kg 1g SAR = 120.25 W/kg 10g SAR = 52.49 W/kg

For the validations, we normalized 5300 MHz targets from a 50 mW forward power. The 1g SAR targets normalized to 50 mW are:

SAR_{tqt}(f= 5300 MHz, P=0.05 W) = 120.25 * 0.05 = 6.01 W/kg



Answer 7

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Dipole Physical Characteristics:





Dipole Photograph

