Re: FCC ID BRWXP662

Applicant: Horizon Hobby Distributors Inc
Correspondence Reference Number: 22420
731 Confirmation Number: EA673213

I understand that the attenuation requirement for radiated spurious emissions is needed is a determination of the actual power levels.

In case of a transmitter with Built-in Antenna, usually, the attenuation is shown in the ratio of Carrier Emission (dBuV/m) and Spurious Emission (dBuV/m) instead of "substitution method".

The grounds are as follows.

Frequency [MHz]	Maximum Field Strength [dBuV/m at 3m]	Maximum Field Strength [V/m at 3m]	Distance [m]	EIRP [W]	EIRP [mW]	EIRP [dBm]	Attenuation to RF Power [dB]
72.55	117.9	0.78524	3	0.18498	184.979	22.7	3.8
RF Power by "substitution Method" = 70.96mW (18.9dBm)							

Above test results of filed strength, Effecttive radiated power is calculated from a formula.

E = SQRT(30*P) / d [V/m]

P : EIRP [W]
d : Measured Distance, 3.0m
E : Field Strength

W = E H = E^2 / 120 [W/m]

W : Power Density
120 : Free space Impedance

It is understood that the calculated value (EIRP) increases by reflecting ground plane.
The increase is 3.8dB, and is near the theoretical value 3dB.