RF Exposure Statement

Product description

Test item	: Radio control transmitter
Applicant	: Kyosho Corporation of America.
Address	: 20322 Valencia Circle, Lake Forest, CA, USA 92630
Model	: EX-6
FCC ID	: WIZSYNCROEX6
Operating frequency range	: 2404 - 2480 MHz (DSSS), 2404 – 2460 MHz (FHSS)
TX output power (Cond)	: DSSS: -3.15dBm @2.404GHz, -3.57dBm @2.442GHz, -4.71dBm @2.480GHz
	: FHSS: -3.06dBm @2.404GHz, -3.20dBm @2.432GHz, -3.99dBm @2.460GHz
Maximum Antenna Gain	: +0.5dBi

Analysis for portable use

Standalone SAR test exclusion considerations are defined in the KDB 447498 Chapter 4.3.1. 1-g head or body SAR exclusion threshold is defined with formula.

[(Max. power of channel, mW) / (Min. test separation distance, mm)] *[√f (GHz)] ≤ 3.0 for 1-g SAR

The maximum Conducted Peak Output Power is -3.06dBm (2.404GHz).
The best case gain of the antenna is +0.5dBi.
EIRP = (-3.06dBm) + (+0.5dBi) = -2.56dBm
-2.56dBm logarithmic terms covert to numeric result is nearby 0.555mW

General RF Exposure = (0.555mW / 5mm) * √2.404GHz = 0.172 ≤ 3.0

Other frequency results are
[FHSS]
General RF Exposure = (0.537mW / 5mm) * √2.432GHz = 0.167 ≤ 3.0
General RF Exposure = (0.448mW / 5mm) * √2.460GHz = 0.141 ≤ 3.0
[DSSS]
General RF Exposure = (0.543mW / 5mm) * √2.404GHz = 0.168 ≤ 3.0
General RF Exposure = (0.493mW / 5mm) * √2.442GHz = 0.154 ≤ 3.0
General RF Exposure = (0.379mW / 5mm) * √2.480GHz = 0.119 ≤ 3.0

Radio control transmitter EX-6 meets the SAR exclusion. So SAR evaluation is not needed.