

RF Exposure Statement

Product description

Test item	: Radio control transmitter
Applicant	: KONDO KAGAKU CO., LTD.
Address	: 17-1, Higashi-Nippori 4-chome, Arakawa-ku, Tokyo, 116-0014, Japan
Model	: EX-2
FCC ID	: QH9T39EX2
Operating frequency range	: 2404 - 2476 MHz
TX output power (Cond)	: 7.61dBm @2.404GHz, 8.00dBm @2.440GHz, 8.49dBm @2.476GHz
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.

$[(\text{Max. power of channel, mW}) / (\text{Min. test separation distance, mm})] * [\sqrt{f}(\text{GHz})] \leq 3.0$ for 1-g SAR

The maximum Conducted Peak Output Power is 8.49dBm (2.476GHz).

The best case gain of the antenna is +0.5dBi.

EIRP = (8.49dBm) + (+0.5dBi) = 8.99dBm

8.99dBm logarithmic terms covert to numeric result is nearby 7.925mW

$$\text{General RF Exposure} = (7.925\text{mW} / 5\text{mm}) * \sqrt{2.476\text{GHz}} = 2.494 \leq 3.0$$

Other frequency results are

$$\text{General RF Exposure} = (6.471\text{mW} / 5\text{mm}) * \sqrt{2.404\text{GHz}} = 2.007 \leq 3.0$$

$$\text{General RF Exposure} = (7.079\text{mW} / 5\text{mm}) * \sqrt{2.440\text{GHz}} = 2.212 \leq 3.0$$

Radio control transmitter EX-2 meets the SAR exclusion. So SAR evaluation is not needed.