Analysis Report

Report No.: 13030709HKG-001

FCC ID: ZY9-1201476

The equipment under test (EUT) is a weather sensor operating at 433.95MHz. The EUT is powered by 3.0VDC (2X 1.5V "AA" batteries). The EUT will transmit RF signal to the corresponding receiver and the receiver will display the humidity and temperature on the screen of receiver.

Antenna Type: Internal, integral

Antenna Gain: 0dBi

Nominal rated field strength: 86.3dBµV/m at 3m

Allowed field strength of production tolerance: +3dB and -3 dB Maximum allowed field strength of production: 89.3dBuV/m @ 3m

According to the KDB 447498:

Based on the Maximum allowed field strength of production was 89.3dBµV/m at 3m in frequency 433.950MHz, thus;

The EIRP = $[(FS*D)^2*1000 / (30*1.64)] = 0.255 mW$

Conducted power = Radiated Power (EIRP) – Antenna Gain So;

Conducted Power = 0.255mW.

Threshold = 3.0 * (min. test separation distance, mm)/ SQRT(f in GHz) = 3.0 * (5 / SQRT(0.43395)) = 23mW

Since the above maximum output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.