RF Exposure Estimation Report

Applicant:	**Yinchuan aotoso Information Technology Co Ltd.**
Address:	**Bldg No. 1,SME Business Imbark Center, shuixiang Road, Yinchuan, Ningxia.,**
Product name :	**UCOWS Cow Activity Collector**
FCC-ID	**2AFPU-ATS-UCOWS001**
Model No.:	**ATS-UCOWS001**
RF report #	**NTS 150614060R**

1. Limit and Guidelines on Exposure to Electromagnetic Fields

According to§15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB 447498 D01 Mobile Portable RF Exposure v05r02, no SAR required if power is lower than the flowing threshold:
The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]
[√f(GHz)] **≤ 3.0 for 1-g SAR** and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation25
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

2. Calculation method

[(max. power of` channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] *·[√f(GHz)] ≤ 3.0

Tune up tolerance : unstated

Zig bee Radiated power = -11.5 dBm Distance = 5 mm f = 2.475 GHz

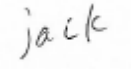
[0.070/5] * SQRT(2.475) =**0.02** **0.022 ≤ 3.0**

Therefore, excluded from SAR testing.

Reviewed by:

Andy Xie /Technical Manager
Date: 2015-09-06

Prepared By:



Jack Wu /Testing Engineer
Date: 2015-09-06