



Test Report

Prepared for: Mark A. Davis

Model: BA021

Description: Wireless Helmet Bike Adapter

Serial Number: N/A

FCC ID: 2AKXKBA021

To

FCC Part 1.1310

Date of Issue: April 17, 2017

On the behalf of the applicant:

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Kenneth Lee
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Test Report Revision History

| Revision | Date | Revised By | Reason for Revision |
|-----------------|----------------|-------------------|---------------------------------------|
| 1.0 | March 21, 2017 | Kenneth Lee | Original Document |
| 2.0 | April 17, 2017 | Kenneth Lee | Updated Minimum Test Distance to 5 mm |
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Testing Certificate Number: **2152.01**



FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

EUT Description

Model: BA021

Description: Wireless Helmet Bike Adapter

Firmware: PurePath Wireless Configurator 1.4.2.38775 – Texas Instruments

Software: N/A

Serial Number: N/A

Additional Information: This device incorporates the TI PurePath protocol.



SAR Exclusion

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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁵ where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁶
- 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.

Max Power in mW = 0.475 mW

Min. Test Separation Distance = 5 mm

Frequency of Operation = 2406

$$\frac{0.475 \text{ mW}}{5 \text{ mm}} \times [\sqrt{f(2.406)}] = 0.14735$$

END OF TEST REPORT