

Test Report Number: 4050119EMC04 Rev: 0

Windrock, Inc. / Wireless Encoder

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# **RF Exposure Report**

Project Number: 4050119

Report Number: 4050119EMC04 Revision Level: 0

Client: Windrock, Inc.

**Equipment Under Test: Wireless Encoder** 

Model: A6420

FCC ID: VYK-A6420

Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498

**FCC OET Bulletin 65 Supplement** 

## Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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# **General Information**

### **Client Information** 1.1

Name: Windrock, Inc

Address: 1832 Midpark Rd, Suite 102

City, State, Zip, Country: Knoxville, TN 37921

### Test Laboratory 1.2

Name: SGS North America, Inc.

Address: 620 Old Peachtree Road NW, Suite 100

City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA

Type of lab: Testing Laboratory

Certificate Number: 3212.01

#### General Information of EUT 1.3

**EUT:** Wireless Encoder

Model Number: A6420-00-00 Serial Number: 1609642015

Frequency Range: 903.45 to 921.45 MHz

Channels: 8 Modulation type: GFSK

Frequency Range: 2402 to 2480 MHz

Channels: 79 Channels

Modulation type: Bluetooth GFSK, EDR-2, EDR-3 (DH1, DH3, DH5)

Antenna (900MHz): 1/4 Wave Dipole (Linx Technologies, ANT-916-CW-QW)

Antenna (2.4GHz): 3/4" External Monopole, Reverse SMA

Rated Voltage: 7.2 Vdc Li Ion Battery

Sample Received Date: 22 November 2016

Dates of testing: 29 – 30 November 2016 / 24 – 26 January 2017

# **Operating Modes and Conditions**

For this assessment, the EUT's maximum measured conducted power was considered.



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# **RF Exposure**

### Test Result 2.1

Test Description	Product Specific Standard	Test Result			
RF Exposure	FCC Part 1.1310	Compliant			

#### Test Method 2.2

Using the maximum measured conducted powers, the power density was calculated.

### Single transmission RF Exposure Levels 2.3

Band of Operation		Conducted Power w/tolerance	Antenna Gain	Cable Loss	Averag	je EIRP	Distance (R)	Power Density EIRP <sub>Avg</sub> /(4πR²)	FCC	% of Limit	Verdict
Туре	MHz	dBm			dBm	mW	cm	mW/cm²	mW/cm <sup>2</sup>		
900MHz	902-928	11.4	1.8	0.0	13.2	21	20	0.004	0.60	1%	Pass
Bluetooth	2400-2483.5	1.4	-0.9	0.0	0.5	1	20	0.000	1.00	0%	Pass

### Simultaneous transmission RF Exposure Levels 2.4

With both radios transmitting simultaneously, the summed percentage of the limit is <1% of the FCC limit.