

Test Report Number: 2199EMC03 Rev: 0 ARRIS Group, Inc. / XBB1-A Page: 1 of 5

RF Exposure Report

Project Number: 2199 Report Number: 2199EMC03 Revision Level: 0 Client: ARRIS Group, Inc.

Equipment Under Test: Battery Backup Model: XBB1-A FCC ID: UIDXBB1

Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498 FCC OET Bulletin 65 Supplement

Report issued on: 05 October 2016

Test Result: Compliant

Tested by:

Fabian Nica, Senior Engineering Technician

Reviewed by:

Jeremy Pickéns, Senior EMC Engineer

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.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or Testing done by SGS International Electrical Approvals in connection with distribution or use of the product described in this report must be approved by SGS international Electrical Approvals in writing.



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1 General Information

1.1 Client Information

Name: ARRIS Group, Inc. Address: 3871 Lakefield Drive, Suite 300 City, State, Zip, Country: Suwanee, GA 30024, USA

1.2 Test Laboratory

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

1.3 General Information of EUT

Type of Product:	Battery Backup
Model Number:	XBB1-A
Serial Number:	G76BWX222200055 (Conducted)
Senai Number.	G76BWX222200084 (Radiated)

FCC ID: UIDXBB1

Frequency Range:	2405-2480MHz
Modulation:	802.15.4
Antenna:	PCB – Inverted F

Rated Voltage: 12 Vdc Test Voltage: 12Vdc

Sample Received Date: 08 August 2016

1.4 **Operating Modes and Conditions**

For this assessment, the EUT's maximum power across the band was considered.



2 RF Exposure

2.1 Test Result

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

2.2 Test Method

Using the maximum measured conducted power, the power density was calculated. A maximum antenna gain of 2dBi was assumed for this exercise.

2.3 Single transmission RF Exposure Levels

	Band of Operation		Conducted Power w/tolerance	Antenna Gain	Cable Loss	Averag	je EIRP	Distance (R)	Power Density EIRP _{Avg} /(4πR²)	FCC	% of Limit	Verdict
	Туре	MHz	dBm			dBm	mW	cm	mW	mW/cm ²		
Γ	Zigbee 2.4	2400-2483.5	10.0	2.0	0.0	12.0	16	2	0.315	1.00	32%	Pass



3 Revision History

Revision Level	Description of changes	Revision Date		
0	Initial release	05 October 2016		