

RF Exposure Report

Project Number: 4038087

Report Number: 4038087EMC03 **Revision Level:** 0

Client: Arrayent Health LLC, DBA Ambio Health

Equipment Under Test: Cellular Gateway

Model: 1-020-02

FCC ID: Q4O-1-21

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

FCC OET Bulletin 65 Supplement

Report issued on: 12 December 2016

Test Result: Compliant

Reviewed by:



Jeremy Pickens, 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.

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1 General Information

1.1 Client Information

Name: Arrayent Health LLC, DBA Ambio Health
Address: Soundview Plaza, Suite 700R
1266 E Main Street
City, State, Zip, Country: Stamford, CT 06902

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

EUT: Cellular Gateway
Model Number: 1-020-02

Frequency Range: 908.4 to 919.65 MHz
Channels: 11
Modulation type: GFSK (100k BAUD)

Antenna: 7cm Wire (Not detachable or replaceable by end user)
Rated Voltage: 5 Vdc Supplied by AC/DC adapter

Sample Received Date: 26 September 2016

1.4 Operating Modes and Conditions

For this assessment, the chip's maximum output power of 10dBm (defined in the Theory of Operation) was used. Although the measured EIRP was ~7dBm, a 0dBi antenna gain was applied as a worst-case calculation.

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 conducted power, the power density was calculated.

2.3 Single transmission RF Exposure Levels

Type	Band of Operation MHz	Conducted Power w/tolerance dBm	Antenna Gain	Cable Loss	Average EIRP		Distance (R) cm	Power Density EIRP _{Avg} /(4πR ²) mW	FCC mW/cm ²	% of Limit	Verdict
					dBm	mW					
2-FSK	902-928	10.0	0.0	0.0	10.0	10	20	0.002	0.60	0%	Pass

3 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	12 December 2016