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Test Report

Prepared for: Shenzhen SolidRF Communications Co., Ltd.

Model: SR35702701

Description: Pro 5 bands Signal Booster

FCC ID: A7V-SR35702701

To

FCC Part 1.1310

Date of Issue: October 21, 2016

On the behalf of the applicant:	**Shenzhen SolidRF Communications Co., Ltd.** **No. 8, Shop D, Block C, Shan Shui Ju, Longwei Road** **Schenzhen, Guangdong 518049**
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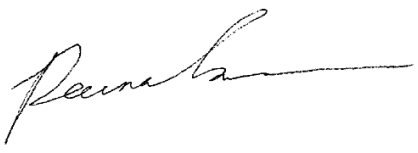

Poona Saber
Project Test Engineer

Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	October 19, 2016	Poona Saber	Original Document

ILAC / A2LA

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Non-accredited tests contained in this report:

N/A

EUT Description
Model: SR35702701
Description: Pro 5 Bands Signal Booster

Additional Information:

The EUT is an In-Building bi-directional amplifier for the boosting of cellular phone signals and data communication devices.
The following frequency bands and emission types are utilized.

Frequency Band (MHz)					
Uplink	698 - 716	776 - 787	824 - 849	1850 - 1915	1710 – 1755
Downlink	728 - 746	746 - 757	869 - 894	1930 - 1995	2110 - 2155

Antenna gains including the cable loss came from the Antenna Kitting document supplied with this filing.
The lowest frequency and the highest output power for each band was used in the calculations.

Source Based Time Averaged Power Calculation

Average Power calculations

Average Power = Peak Power * duty-cycle%

Frequency (MHz)	Conducted Output Power (mW)	Duty Cycle (%)
698-716	0.0078	100
776-787	0.074	100
824-849	0.155	100
1710-1755	0.126	100
1850-1915	0.229	100

MPE Evaluation

This is a Fixed device used in Uncontrolled Exposure environment.

Limits Uncontrolled Exposure
47 CFR 1.1310
Table 1, (B)

0.3-1.234 MHz:	Limit [mW/cm²] = 100
1.34-30 MHz:	Limit [mW/cm²] = (180/f²)
30-300 MHz:	Limit [mW/cm²] = 0.2
300-1500 MHz:	Limit [mW/cm²] = f/1500
1500-100,000 MHz	Limit [mW/cm²] = 1.0

Test Data

Test Frequency, MHz	698
Power, Conducted, mW (P)	77.6
Antenna Gain Isotropic	5.1 dBi
Antenna Gain Numeric (G)	3.24
Antenna Type	Directional antenna
Distance (R)	20 cm

$S = \frac{P * G}{4\pi r^2}$
Power Density (S) mw/cm^2

Power Density (S) = 0.05 mw/cm^2
Limit =(from above table) = 0.465 mw/cm^2

The EUT meets the power density requirements at 20 cm

Test Frequency, MHz	776
Power, Conducted, mW (P)	74.13
Antenna Gain Isotropic	5.1 dBi
Antenna Gain Numeric (G)	3.24
Antenna Type	Directional antenna
Distance (R)	20 cm

$S = \frac{P * G}{4\pi r^2}$
Power Density (S) mw/cm^2

Power Density (S) = 0.0477 mw/cm^2
Limit =(from above table) = 0.517 mw/cm^2

The EUT meets the power density requirements at 20 cm

Test Frequency, MHz	824
Power, Conducted, mW (P)	154.8
Antenna Gain Isotropic	5.05 dBi
Antenna Gain Numeric (G)	3.20
Antenna Type	Directional antenna
Distance (R)	20 cm

$S = \frac{P * G}{4\pi r^2}$
Power Density (S) mw/cm^2

Power Density (S) = 0.108 mw/cm^2
Limit =(from above table) = 0.549 mw/cm^2

The EUT meets the power density requirements at 20 cm

Test Frequency, MHz	1710
Power, Conducted, mW (P)	125.8
Antenna Gain Isotropic	5.45 dBi
Antenna Gain Numeric (G)	3.51
Antenna Type	Directional antenna
Distance (R)	20 cm

$S = \frac{P * G}{4\pi r^2}$
Power Density (S) mw/cm^2

Power Density (S) = 0.0878 mw/cm^2
Limit =(from above table) = 1 mw/cm^2

The EUT meets the power density requirements at 20 cm

Test Frequency, MHz	1850
Power, Conducted, mW (P)	229
Antenna Gain Isotropic	5.1 dBi
Antenna Gain Numeric (G)	3.24
Antenna Type	Directional antenna
Distance (R)	20 cm

$S = \frac{P * G}{4\pi r^2}$
Power Density (S) mw/cm^2

Power Density (S) = 0.147 mw/cm^2
Limit =(from above table) = 1 mw/cm^2

The EUT meets the power density requirements at 20 cm

END OF TEST REPORT