

 <p><b>Spectrum Research &amp; Testing Lab., Inc.</b>  No.167,Ln. 780, Shan-Tong Rd., Ling 8, Shan-Tong Li, Chung-Li Dist., Taoyuan City 320, Taiwan (R.O.C.)</p>	<h1>TEST REPORT</h1>	Reference No.: A17103001 Report No.: MPE17103001-01 FCC ID : AHL-ALMOND3S Page:1 of 8 Date: Dec. 28, 2017
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Product Name: Almond 3S  
Model No.: A3S  
  
Applicant: Securifi Ltd.  
  
Date of Receipt: Oct. 30, 2017  
Finished date of Test: Dec. 12, 2017  
Applicable Standards: KDB 447498  
KDB 865664

We, **Spectrum Research & Testing Laboratory Inc.**, hereby certify that one sample of the above was tested in our laboratory with positive results according to the above-mentioned standards. The records in the report are an accurate account of the results. Details of the results are given in the subsequent pages of this report.

Tested By : Richard Lin, Date: 12/28/2017  
(Richard Lin)

Approved By : JH, Date: 12/28/2017  
( Johnson Ho, Director )

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## **1. DOCUMENT POLICY AND TEST STATEMENT**

### **1.1 DOCUMENT POLICY**

- The report shall not be reproduced except in full, without the written approval of SRT Lab, Inc.

### **1.2 TEST STATEMENT**

- The test results in the report apply only to the unit tested by SRT Lab.
- There was no deviation from the requirements of test standards during the test.
- DC power source from Battery or external adapter.

### **1.3 EUT MODIFICATION**

- No modification in SRT Lab.

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## 2. DESCRIPTION OF EUT AND TEST MODE

### 2.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	Almond 3S
<b>MODEL NO.</b>	A3S
<b>POWER SUPPLY</b>	DC power source from Battery or external adapter Brand Name: Shenzhen Gongjin Electronics Co. Ltd Model No.:S36B52-120A250-04 Input: 100~240V 50~60Hz Max 1.0A Output: 12V 2.5A
<b>FREQUENCY BAND</b>	2.4 GHz ~ 2.4835 GHz
<b>CARRIER FREQUENCY</b>	2.412 GHz ~ 2.462 GHz
<b>NUMBER OF CHANNEL</b>	2.4 G band_802.11b/g/n - HT20 : 11 ch 2.4 G band_802.11n - HT40 : 7 ch
<b>RATED RF OUTPUT POWER</b>	2.4G band 802.11b : 7.92 dBm (6.16 mW) 802.11g : 5.67 dBm (3.69 mW) 802.11n - HT20 : 7.26 dBm (5.32 mW) 802.11n - HT40 : 7.31 dBm (5.38 mW)
<b>MODULATION TYPE</b>	IEEE802.11b DSSS(BPSK/QPSK/CCK) IEEE802.11g OFDM(BPSK/16-QAM/64-QAM) IEEE802.11n MIMO-OFDM(BPSK/QPSK/16-QAM/64-QAM)
<b>MODE of OPERATION</b>	Duplex
<b>ANTENNA TYPE</b>	Printed Antenna
<b>ANTENNA GAIN</b>	2.0 dBi (ANT#1), 2.0 dBi (ANT#2)

**NOTE:** For more detailed information, please refer to the EUT's specification or user's manual provided by manufacturer.

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### 3. RF POWER EXPOSURE EVALUATION TEST

#### 3.1 LIMIT

According to the requirements of Part 1.1310(e), KDB 447498 D01 General RF Exposure Guidance v06, Section7, and KDB 865664 D02 RF Exposure Reporting v01r02, section 2 .

#### Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength(E) (V/m)	Magnetic Field Strength(H) (A/m)	Power density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f <sup>2</sup> )*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

#### Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength(E) (V/m)	Magnetic Field Strength(H) (A/m)	Power density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz \*Plane-wave equivalent power density

**NOTE 1:** Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

**NOTE 2:** General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

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### 3.2 TEST PROCEDURE

1. The EUT was operating in Tx mode.
2. The EUT uses an Printed Antenna, the antenna gain of 2 dBi is declared by the manufacturer.

$$S = PG / 4 \pi R^2$$

Where: S = power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

### 3.3 EUT OPERATING CONDITION

1. Setup the EUT and all peripheral devices .
2. Turn on the power of all equipment and EUT.
3. Set the EUT under continuous transmission condition mode.
4. The EUT was set to the highest available power level.

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### 3.4 CONNECT POWER AT THE ANTENNA CONNECTOR RESULT

Temperature:	20 °C	Humidity:	54 % RH
Spectrum Detector:	PK.	Tested Mode:	802.11b
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	MPE DISTANCE (cm)	ANTENNA GAIN (dBi)	PEAK POWER OUTPUT		CALCULATED RF EXPOSURE (mW/cm²)	LIMIT (mW/cm²)
				dBm	mW		
802.11b_CH11	2462	20	2	7.92	6.19	0.00195	1

Temperature:	20 °C	Humidity:	54 % RH
Spectrum Detector:	PK.	Tested Mode:	802.11g
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	MPE DISTANCE (cm)	ANTENNA GAIN (dBi)	PEAK POWER OUTPUT		CALCULATED RF EXPOSURE (mW/cm²)	LIMIT (mW/cm²)
				dBm	mW		
802.11g_CH11	2462	20	2	5.67	3.69	0.00116	1

Temperature:	20 °C	Humidity:	54 % RH
Spectrum Detector:	PK.	Tested Mode:	802.11n - HT20
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	MPE DISTANCE (cm)	ANTENNA GAIN (dBi)	PEAK POWER OUTPUT		CALCULATED RF EXPOSURE (mW/cm²)	LIMIT (mW/cm²)
				dBm	mW		
CH11_ANT1	2462	20	2	4.54	7.26	0.00168	1
CH11_ANT2			2	3.93			

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Temperature:	20 °C	Humidity:	54 % RH
Spectrum Detector:	PK.	Tested Mode:	802.11n - HT40
Tested By:	Richard Lin	Tested Date:	Dec. 12, 2017

CHANNEL NUMBER	CHANNEL FREQUENCY (MHz)	MPE DISTANCE (cm)	ANTENNA GAIN (dBi)	PEAK POWER OUTPUT		CALCULATED RF EXPOSURE (mW/cm²)	LIMIT (mW/cm²)
				dBm	mW		
CH06_ANT1	2437	20	2	4.38	7.31	0.00170	1
CH06_ANT2			2	4.22			

**NOTE:** Limits for Occupational/Controlled Exposure