

FCC 47 CFR PART 15 SUBPART E

for

SamKnows Whitebox 8.0 Model: SK-WB8 Brand: SamKnows

Test Report Number: C160419Z02-RP1-2

Issued Date: June 20, 2016

Issued for

SamKnows Limited

94 New Bond Street, London W1S 1SJ, United Kingdom

Issued by:

Compliance Certification Services (Shenzhen) Inc.

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	June 20, 2016	Initial Issue	ALL	Sinphy Xie



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1. TEST CERTIFICATION

Product	SamKnows Whitebox 8.0
Model	SK-WB8
Brand	SamKnows
Tested	April 19~June 20, 2016
Applicant	SamKnows Limited 94 New Bond Street, London W1S 1SJ, United Kingdom
Manufacturer	SamKnows Limited 94 New Bond Street, London W1S 1SJ, United Kingdom

APPLICABLE STANDARDS		
STANDARD	TEST RESULT	
FCC 47 CFR Part 15 Subpart E	No non-compliance noted	

We hereby certify that:

Compliance Certification Services (Shenzhen) Inc. tested the above equipment. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in **ANSI C63.10: 2013** and the energy emitted by the sample EUT tested as described in this report is in compliance with

conducted and radiated emission limits of FCC Rules Part 15.407、FCC 14-30.

The TEST RESULTS of this report relate only to the tested sample identified in this report.

Approved by:

many. Hu

Sunday Hu Supervisor of EMC Dept. Compliance Certification Services (Shenzhen) Inc.

Reviewed by:

Ruby Zhang Supervisor of Report Dept. Compliance Certification Services (Shenzhen) Inc.



2. EUT DESCRIPTION

Product	SamKnows Whitebox 8.0	
Model Number	SK-WB8	
Brand	SamKnows	
Model Discrepancy	N/A	
Serial Number	C160419Z02-RP1-2	
Received Date	April 19, 2016	
Power Supply	DC 12V supplied by the adapter	
Adapter 1# Manufacturer /Model No.	I/P: 100-240Vac, 50-60Hz, 1000m O/P: 12.0Vdc, 2000mA	
Adapter 2# Manufacturer /Model No.	DONGGUAN CITY YINGJU ELEC INPUT: 100-240Vac~50/60Hz 800 OUTPUT: 12.0Vdc, 2.0A	CTRONICS CO.,LTD./YJS024W-1202000E ImA
Adapter 3# Manufacturer /Model No.	Shenzhen Gongjin Electronics Co INPUT: 100-240Vac~50/60Hz Max OUTPUT:12Vdc, 2A	.,Ltd/S24B72-120A200-C4 x 0.8A
Frequency Range	UNII Band I: IEEE 802.11a, 802.11n HT20 : IEEE 802.11n HT40: IEEE 802.11ac 80: UNII Band II IEEE 802.11a, 802.11n HT20 : IEEE 802.11ac 80: UNII Band III IEEE 802.11ac 80: UNII Band III IEEE 802.11a, 802.11n HT20 : IEEE 802.11ac 80: UNII Band IV IEEE 802.11a, 802.11n HT20 : IEEE 802.11a, 802.11n HT20 : IEEE 802.11ac 80:	5180MHz ~ 5240MHz; 5190MHz ~ 5230MHz 5210MHz 5260MHz ~ 5320MHz 5270MHz ~ 5310MHz 5290MHz 5500MHz ~ 5700MHz 5510MHz ~ 5670MHz 5530MHz 5745MHz ~ 5825MHz 5755MHz ~ 5795MHz 5775MHz
Transmit Power	IEEE 802.11ac 80: UNII Band II IEEE 802.11a: IEEE 802.11n HT 20 MHz mode: IEEE 802.11n HT 40 MHz mode: IEEE 802.11ac 80: UNII Band III IEEE 802.11a:	16.34dBm (Antenna 0) 18.27dBm (Antenna 1) 20.37dBm (Combine with Antenna 0 and Antenna 1) 20.77dBm (Combine with Antenna 0 and Antenna 1) 16.94dBm (Combine with Antenna 0 and Antenna 1) 16.29dBm (Antenna 0) 19.13dBm (Antenna 1) 20.78dBm (Combine with Antenna 0 and Antenna 1) 19.15dBm (Combine with Antenna 0 and Antenna 1) 17.48dBm (Combine with Antenna 0 and Antenna 1) 17.68dBm (Antenna 0) 16.57dBm (Antenna 1) 22.42dBm (Combine with Antenna 0 and Antenna 1)

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	_	
	IEEE 802.11n HT 40 MHz mode: IEEE 802.11ac 80: UNII Band IV	22.45dBm (Combine with Antenna 0 and Antenna 1) 18.52dBm (Combine with Antenna 0 and Antenna 1)
	IEEE 802.11a:	18.08dBm (Antenna 0) 19.14dBm (Antenna 1)
		20.94dBm (Combine with Antenna 0 and Antenna 1) 19.77dBm (Combine with Antenna 0 and Antenna 1) 18.76dBm (Combine with Antenna 0 and Antenna 1)
Modulation Technique	OFDM (QPSK, BPSK, 16-QAM, 6	4-QAM)
Transmit Data Rate	IEEE802.11n HT40MHz mode(80	8, 12, 9, 6Mbps 0ns GI): 13,26,39,52,78,104,117,130Mbps 0ns GI): 27,54,81,108,162,216,243,270Mbps 800ns GI): 58.6,117,175.6,234,351,468,526.6,
	UNII Band I:	
	IEEE 802.11a, 802.11n HT20 :	4 Channels
	IEEE 802.11n HT40 :	2 Channels
	IEEE 802.11ac 80:	1 Channel
	UNII Band II	i onamer
	IEEE 802.11a, 802.11n HT20 :	4 Channels
	IEEE 802.11n HT40:	2 Channels
Niversk sv. of		
Number of Channels	IEEE 802.11ac 80:	1 Channel
Channels	UNII Band III	11 Observals
	IEEE 802.11a, 802.11n HT20 :	11 Channels
	IEEE 802.11n HT 40 MHz mode:	
	IEEE 802.11ac 80:	2 Channels
	UNII Band IV	
	IEEE 802.11a, 802.11n HT20 :	
	IEEE 802.11n HT 40 MHz mode:	
	IEEE 802.11ac 80:	1 Channel
Antenna Specification	PCB Antenna with 2.0dBi gain (M	ax)
Channels Spacing	IEEE 802.11a, 802.11n HT20 : 20 IEEE 802.11n HT40: 40MHz IEEE 802.11ac 80: 80MHz	MHz
Temperature Range	0°C ~ +40°C	
Hardware Version	V1.01	
Software Version	V1.00	

Note: 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.



Operation Frequency:

UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII)		
CHANNEL	MHz	
36	5180	
38	5190	
40	5200	
42	5210	
44	5220	
46	5230	
48	5240	
52	5260	
54	5270	
56	5280	
58	5290	
60	5300	
62	5310	
64	5320	
100	5500	
102	5510	
104	5520	
106	5530	
108	5540	
110	5550	
112	5560	
116	5580	
132	5660	
134	5670	
136	5680	
140	5700	
149	5745	
151	5755	
153	5765	
155	5775	
157	5785	
159	5795	
161	5805	
165	5825	

Remark:

- 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
- This submittal(s) (test report) is intended for <u>FCC ID</u>: <u>2AGPP-SK-WB8V2</u> filing to comply with Section 15.407 of the FCC Part 15, Subpart E Rules and FCC 14-30.



3. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 Radiated testing was performed at an antenna to EUT distance 3 meters. The tests documented in this report were performed in accordance with ANSI C63.10: 2013 and FCC CFR 47 Part 15.207, 15.209, 15.407 and FCC 14-30. Radio testing was performed according to KDB DA 02-2138、 KDB 789033 D02、 KDB 905462 D06;

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed for RF field strength measurement to meet the Commissions requirement, and is operated in a manner intended to generate the maximum emission in a continuous normal application.

3.2 EUT EXERCISE

The EUT is operated in the engineering mode to fix the TX frequency for the purposes of measurement.

According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is positioned at 0.8 m above the ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10, the conducted emission from the EUT is measured in the frequency range between 0.15 MHz and 30MHz, using the CISPR Quasi-Peak detector mode.

Radiated Emissions

The EUT is placed on the turntable, which is 0.8 m (below 1GHz) /1.5m (Above 1GHz) above the ground plane. The turntable is then rotated for 360 degrees to determine the proper orientation for the maximum emission level. The EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission level. And, each emission is to be maximized by changing the horizontal and vertical polarization of the receiving antenna. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.10.



3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



3.5 DESCRIPTION OF TEST MODES

The EUT is a 2x2 configuration spatial MIMO (2TX & 2RX) without beam forming function. Software used to control the EUT for staying in continuous transmitting mode was programmed.

Test Item	Test mode	Worse mode
	Mode 1: Normal (AC120V/60Hz) (YJS036B-1202000D)	
Conducted Emission	Mode 2: Normal (AC240V/50Hz) (YJS036B-1202000D)	
	Mode 3: Normal (AC120V/60Hz) (S24B72-120A200-C4)	\boxtimes
Radiated Emission	Mode 1: TX	

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz, which worst case was in normal link mode only.

UNII Band I:

IEEE 802.11a for 5180 ~ 5240MHz:

Channel Low (5180MHz), Channel Mid (5200MHz) and Channel High (5240MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT 20 MHz for 5180 ~ 5240MHz:

Channel Low (5180MHz), Channel Mid (5200MHz) and Channel High (5240MHz) with 13Mbps data rate were chosen for full testing.

IEEE 802.11n HT 40 MHz Channel for 5190 ~ 5230MHz:

Channel Low (5190MHz) and Channel High (5230MHz) with 27Mbps data rate were chosen for full testing.

IEEE 802.11ac 80 Channel for 5210MHz:

Channel Low (5210MHz) with 27Mbps data rate were chosen for full testing.



UNII Band II:

IEEE 802.11a for 5260 ~ 5320MHz:

Channel Low (5260MHz), Channel Mid (5300MHz) and Channel High (5320MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT 20 MHz for 5260 ~ 5320MHz:

Channel Low (5260MHz), Channel Mid (5300MHz) and Channel High (5320MHz) with 13Mbps data rate were chosen for full testing.

IEEE 802.11n HT 40 MHz Channel for 5270~ 5310MHz:

Channel Low (5270MHz) and Channel High (5310MHz) with 27Mbps data rate were chosen for full testing.

IEEE 802.11ac 80 Channel for 5290MHz:

Channel Low (5290MHz) with 27Mbps data rate were chosen for full testing.

UNII Band III:

IEEE 802.11a for 5500 ~ 5700MHz:

Channel Low (5500MHz), Channel Mid (5580MHz) and Channel High (5700MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT 20 MHz for 5500 ~ 5700MHz:

Channel Low (5500MHz), Channel Mid (5580MHz) and Channel High (5700MHz) with 13Mbps data rate were chosen for full testing.

IEEE 802.11n HT 40 MHz Channel for 5510~ 5670MHz:

Channel Low (5510MHz) and Channel High (5670MHz) with 27Mbps data rate were chosen for full testing.

IEEE 802.11ac 80 Channel for 5530MHz:

Channel Low (5530MHz) with 27Mbps data rate were chosen for full testing.

UNII Band IV:

IEEE 802.11a for 5745 ~ 5825MHz:

Channel Low (5745MHz), Channel Mid (5785MHz) and Channel High (5825MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT 20 MHz for 5745 ~ 5825MHz:

Channel Low (5745MHz), Channel Mid (5785MHz) and Channel High (5825MHz) with 13Mbps data rate were chosen for full testing.

IEEE 802.11n HT 40 MHz Channel for 5755~ 5795MHz:

Channel Low (5755MHz) and Channel High (5795MHz) with 27Mbps data rate were chosen for full testing.

IEEE 802.11ac 80 Channel for 5775MHz:

Channel Low (5775MHz) with 27Mbps data rate were chosen for full testing.



4. SETUP OF EQUIPMENT UNDER TEST

4.1 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model No.	Serial No.	FCC ID	Brand	Data Cable	Power Cord
1	Notebook #1	E335	R9-WN1EF	DoC	Thinkpad	Unshielded 0.80m	Shielded 1.60m
2	Notebook #2	Probook 5310M	N/A	DoC	HP	Unshielded 0.80m	Shielded 1.60m
3	lpod	A1285	YM9149223QX	DoC	APPLE	Shielded 1.00m	N/A

Note:

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.2 CONFIGURATION OF SYSTEM UNDER TEST

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.



5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at No.10-1 Mingkeda Logistics park, No.18, Huanguan South Rd., Guan Lan Town, Baoan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.10, ANSI C63.7 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

USA	A2LA
China	CNAS

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

USA	FCC
Japan	VCCI(C-3478, R-3135, T-652, G-10624)
Canada	INDUSTRY CANADA

Copies of granted accreditation certificates are available for downloading from our web site, http://www.ccssz.com



5.4 MEASUREMENT UNCERTAINTY

Parameter	Uncertainty
RF frequency	+/-1 * 10-5
RF power conducted	+/- 1,5 dB
RF power radiated	+/- 6 dB
Spurious emissions, conducted	+/- 3 dB
Spurious emissions, radiated	+/- 6 dB
Humidity	+/- 5 %
Temperature	+/- 1°C
Time	+/-10 %

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



6. FCC PART 15 REQUIREMENTS

6.1 26dB EMISSION BANDWIDTH

6.1.1 LIMIT

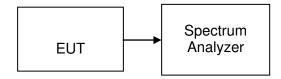
According to §15.403(i), for purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Compliance with the emissions limits is based on the use of measurement instrumentation employing a peak detector function with an instrument resolutions bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

6.1.2 MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	E4446A	US44300399	02/21/2016	02/20/2017

Remark: Each piece of equipment is scheduled for calibration once a year.

6.1.3 TEST CONFIGURATION



6.1.4TEST PROCEDURE

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low-loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW > 1%EBW, VBW > RBW, Span >26dB bandwidth, Detector = Peak, and Sweep = auto.
- 4. Mark the peak frequency and –26dB (upper and lower) frequency.
- 5. Repeat until all the rest channels were investigated.



6.1.5 TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11a mode / 5180 ~ 5240MHz

Channel Frequence		Bandwidth(B) (MHz)		
onumer	(MHz)	Antenna 0	Antenna 1	
Low	5180	19.995	19.886	
Mid	5200	19.854	20.084	
High	5240	19.972	19.768	

Test mode: IEEE 802.11a mode / 5260 ~ 5320MHz

Channel Frequency		Bandwidth(B) (MHz)	
onumer	(MHz)	Antenna 0	Antenna 1
Low	5260	19.977	19.862
Mid	5300	19.676	19.875
High	5320	19.970	19.759

Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz

Channel	Frequency	Bandwidth(B) (MHz)	
Cildinioi	(MHz)	Antenna 0	Antenna 1
Low	5500	19.832	19.899
Mid	5580	19.835	19.870
High	5700	19.781	19.805



Channel	Channel Frequency (MHz)	Bandwidth(B) (MHz)			
		Antenna 0	Antenna 1		
Low	5180	19.885	20.262		
Mid	5200	19.939	20.325		
High	5240	19.911	20.321		

Test mode: IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

Test mode: IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz

Channel	Frequency	Bandw (M	idth(B) Hz)
Chainer	(MHz)	Antenna 0	Antenna 1
Low	5260	19.980	20.285
Mid	5300	19.660	20.296
High	5320	19.901	20.315

Test mode: IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

Channel Frequency		Bandw (M	idth(B) Hz)
onumer	(MHz)	Antenna 0	Antenna 1
Low	5500	19.792	20.335
Mid	5580	19.880	20.389
High	5700	19.842	20.345



Channel	hannel Frequency (MHz)	Bandw (M	idth(B) Hz)	
		Antenna 0	Antenna 1	
Low	5190	39.429	39.590	
High	5230	39.693	39.575	

Test mode: IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

Test mode: IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

Channel	Frequency	Bandw (M	idth(B) Hz)
	(MHz)	Antenna 0	Antenna 1
Low	5270	39.580	39.563
High	5310	39.503	39.539

Test mode: IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

Channel	Frequency	Bandw (M	idth(B) Hz)
onumer	(MHz)	Antenna 0	Antenna 1
Low	5510	39.664	39.519
Mid	5550	39.610	39.571
High	5670	39.543	39.525



Test mode: IEEE 802.11ac 80 mode / 5210MHz

Channel	Frequency	Bandwi (M	idth(B) Hz)
Unanner	(MHz)	Antenna 0	Antenna 1
	5210	79.927	79.929

Test mode: IEEE 802.11ac 80 mode / 5290MHz

Channel	Frequency (MHz)	Bandwidth(B) (MHz)	
		Antenna 0	Antenna 1
	5290	80.036	80.003

Test mode: IEEE 802.11ac 80 mode / 5530MHz

Channel	Frequency (MHz)	Bandwidth(B) (MHz)	
		Antenna 0	Antenna 1
	5530	79.807	79.921



Test Plot

