

FCC PART 15.247
MEASUREMENT AND TEST REPORT

For

Shenzhen CE and IT Limited

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FCC ID: YG5STEALTH-10

Report Type: Original Report	Product Type: Tablets
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Note: This test report is prepared for the customer shown above and for the equipment described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp.

TABLE OF CONTENTS

GENERAL INFORMATION.....	4
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	4
OBJECTIVE	4
RELATED SUBMITTAL(S)/GRANT(S)	4
TEST METHODOLOGY	4
TEST FACILITY	5
SYSTEM TEST CONFIGURATION.....	6
DESCRIPTION OF TEST CONFIGURATION	6
EUT EXERCISE SOFTWARE	6
EQUIPMENT MODIFICATIONS	6
SUPPORT EQUIPMENT LIST AND DETAILS	7
EXTERNAL I/O CABLING LIST AND DETAILS.....	7
BLOCK DIAGRAM OF TEST SETUP	7
SUMMARY OF TEST RESULTS.....	8
§15.247 (i) and §1.1307 (b) (1), §2.1093 – RF EXPOSURE	9
STANDARD APPLICABLE	9
FCC §15.203 - ANTENNA REQUIREMENT.....	10
APPLICABLE STANDARD	10
RESULTS	10
FCC §15.207 (a) - CONDUCTED EMISSIONS	11
APPLICABLE STANDARD	11
MEASUREMENT UNCERTAINTY	11
EUT SETUP.....	11
EMI TEST RECEIVER SETUP.....	12
TEST EQUIPMENT LIST AND DETAILS.....	12
TEST PROCEDURE	12
CORRECTED FACTOR & MARGIN CALCULATION	13
TEST RESULTS SUMMARY	13
TEST DATA	13
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS.....	16
APPLICABLE STANDARD	16
MEASUREMENT UNCERTAINTY	16
EUT SETUP.....	16
EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP	17
TEST EQUIPMENT LIST AND DETAILS.....	17
TEST PROCEDURE	17
CORRECTED AMPLITUDE & MARGIN CALCULATION	18
TEST RESULTS SUMMARY	18
TEST DATA	18
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH.....	27
APPLICABLE STANDARD	27
RESULTS	27
FCC §15.247(b) (3) - MAXIMUM PEAK OUTPUT POWER	28
APPLICABLE STANDARD	28

RESULTS28

FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE.....29

 APPLICABLE STANDARD29

 RESULTS29

FCC §15.247(e) - POWER SPECTRAL DENSITY30

 APPLICABLE STANDARD30

 RESULTS30

DECLARATION LETTER.....31

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Shenzhen CE and IT Limited's* product, model number: *Trio Stealth - 10 (FCC ID: YG5STEALTH-10)* or the "EUT" as referred to in this report was named *Tablets* by applicant, which was measured approximately: 262.6 mm(L) x 159.8 mm (W) x 12.0 mm (H), rated with input voltage: DC 3.7V rechargeable Li-ion battery and DC 5V charging from adapter.

Adapter information

Model: AW018WR-0500250UH

Input: 100-240V~ 50/60Hz 0.5A

Output: DC 5.0V 2.5A

** All measurement and test data in this report was gathered from production sample serial number: 1305061 (Assigned by the BACL, Shenzhen). The EUT supplied by the applicant was received on 2013-05-14.*

Objective

This report is prepared on behalf of *Shenzhen CE and IT Limited* in accordance with Part 2-Subpart J, Part 15-Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

This equipment has the same radio frequency circuitry with previous approved product *Tablets* (FCC ID: YG5STEALTH-8), they share the same PCB layout, antenna location and antenna type, and they also have the same RF output power and software setup procedure, please refer to the declaration letter provided by the applicant.

Related Submittal(s)/Grant(s)

FCC Part 15B JBP submission with FCC ID: YG5STEALTH-10.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, Shihua Road, Futian Free Trade Zone Shenzhen, Guangdong, China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

For 802.11b, 802.11g mode, 802.11n-HT20 and 802.11n-HT40 mode, 11 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

EUT for 802.11b, 802.11g and 802.11n-HT20 modes were tested with Channel 1, 6 and 11. 802.11n-HT40 modes were tested with Channel 3, 6 and 9.

For 802.11n40 mode, 7 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2422	6	2447
2	2427	7	2452
3	2432	/	/
4	2437	/	/
5	2442	/	/

EUT was tested with Channel 1, 4 and 7.

The worst-case data rates are determined to be as follows for each mode based upon investigations by measuring the average power and PSD across all data rates bandwidths, and modulations.

EUT Exercise Software

WiFi RF test built-in the the EUT.

The test was performed under:

802.11b: Data rate: 1 Mbps. Power level: 42

802.11g: Data rate: 6 Mbps. Power level: 32

802.11n-HT20: Data rate: MCS0. Power level: 30

802.11n-HT40: Data rate: MCS0. Power level: 30

Equipment Modifications

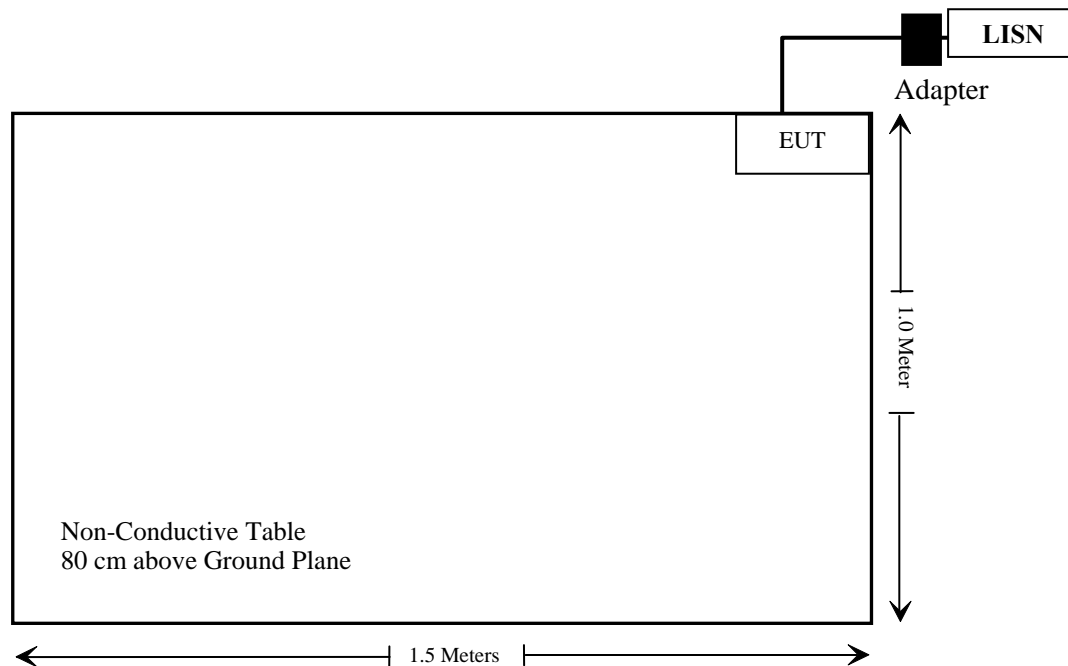
No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cabling List and Details

Cable Description	Length (m)	From	To
Unshielded Detachable Adapter Cable	1.45	Adapter	EUT

Block Diagram of Test Setup

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §2.1093	RF Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	Conducted Emissions	Compliance
§15.247(d)	Spurious Emissions at Antenna Port	Compliance*
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance*
§15.247(b)(3)	Maximum Peak Output Power	Compliance*
§15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliance*
§15.247(e)	Power Spectral Density	Compliance*

Note: Compliant*Based on the applicant's declaration, this equipment has the same radio frequency circuitry with previous approved product Tablets (FCC ID: YG5STEALTH-8), the relevant test report from original filing can be accurately represented the test results under the new conditions.

§15.247 (i) and §1.1307 (b) (1), §2.1093 – RF EXPOSURE

Standard Applicable

According to FCC §15.247 (i) & §2.1093

Result: Compliant

Please refer to the SAR report, report No.: RSZ130514007-20.

FCC §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Results

The EUT has one integrated antenna arrangement, which was permanently attached and the gain was 2.0 dBi, fulfill the requirement of this section. Please refer to the internal photos.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2012-08-08	2013-08-08
Rohde & Schwarz	First L.I.S.N.	ESH2-Z5	892107/021	2012-08-22	2013-08-21
COM-POWER	2 nd LISN	LI-200	12208	NCR	NCR
BACL	CE Test software	BACL-CE	V1.0	-	-

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN/ISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207, with the worst margin reading of:

7.0 dB at 0.453911 MHz in the Line conducted mode

Test Data

Environmental Conditions

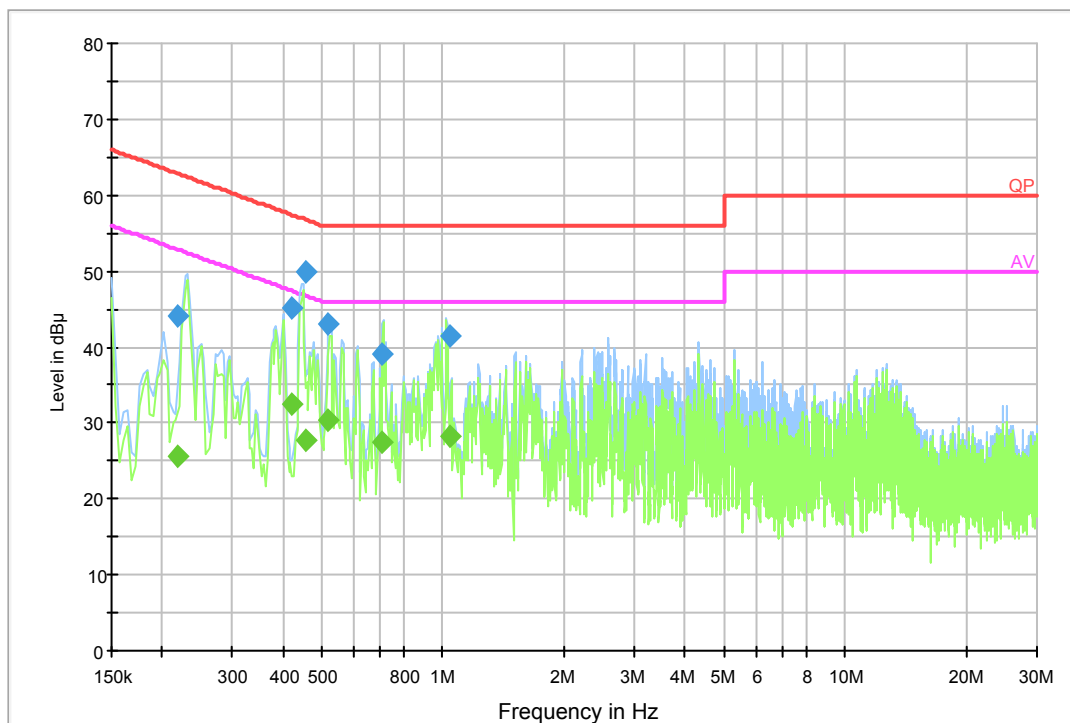
Temperature:	25 °C
Relative Humidity:	48%
ATM Pressure:	100.0 kPa

The testing was performed by Kyle Xu on 2013-05-18.

EUT operation mode: Transmitting & charging

AC 120V / 60Hz – Line:

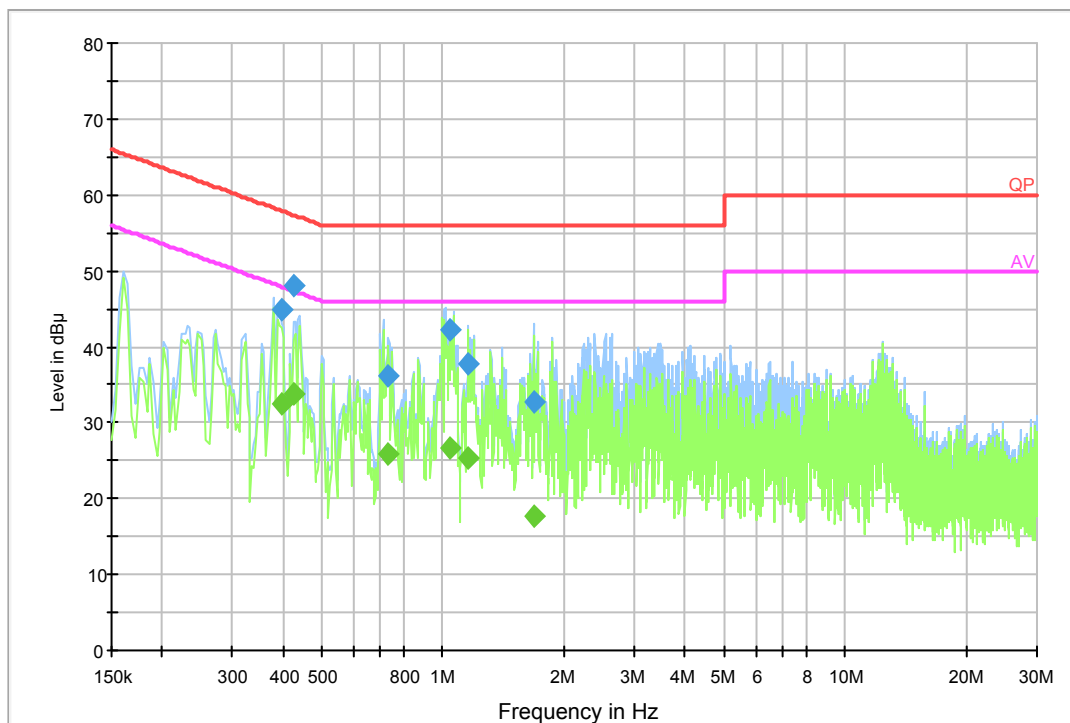
EMI Auto Test L



Frequency (MHz)	Corrected Amplitude (dBμV)	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Remark (PK/ QP/Ave)
0.453911	49.8	0.4	56.8	7.0	QP
0.420930	45.0	0.4	57.4	12.4	QP
0.515994	43.0	0.4	56.0	13.0	QP
1.038796	41.5	0.4	56.0	14.5	QP
0.420930	32.4	0.4	47.4	15.0	Ave.
0.515994	30.4	0.4	46.0	15.6	Ave.
0.705284	39.0	0.4	56.0	17.0	QP
1.038796	28.2	0.4	46.0	17.8	Ave.
0.705284	27.5	0.4	46.0	18.5	Ave.
0.218740	44.0	0.3	62.9	18.9	QP
0.453911	27.7	0.4	46.8	19.1	Ave.
0.218740	25.5	0.3	52.9	27.4	Ave.

AC 120V / 60Hz -Neutral:

EMI Auto Test N



Frequency (MHz)	Corrected Amplitude (dBμV)	Corrected Factor (dB)	Limit (dBμV)	Margin (dB)	Detector (PK/QP/Ave.)
0.425350	48.1	0.3	57.3	9.2	QP
0.399760	44.9	0.3	57.9	12.9	QP
0.425350	33.8	0.3	47.3	13.5	Ave.
1.036384	42.2	0.4	56.0	13.8	QP
0.399760	32.5	0.3	47.9	15.3	Ave.
1.153394	37.9	0.4	56.0	18.1	QP
1.036384	26.7	0.4	46.0	19.3	Ave.
0.732188	36.1	0.4	56.0	19.9	QP
0.732188	26.0	0.4	46.0	20.0	Ave.
1.153394	25.4	0.4	46.0	20.6	Ave.
1.690733	32.8	0.4	56.0	23.2	QP
1.690733	17.6	0.4	46.0	28.4	Ave.

Note:

1) Correction Factor = LISN/ISN VDF (Voltage Division Factor) + Cable Loss

The corrected factor has been input into the transducer of the test software.

2) Corrected Amplitude = Reading + Correction Factor

3) Margin = Limit – Corrected Amplitude

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

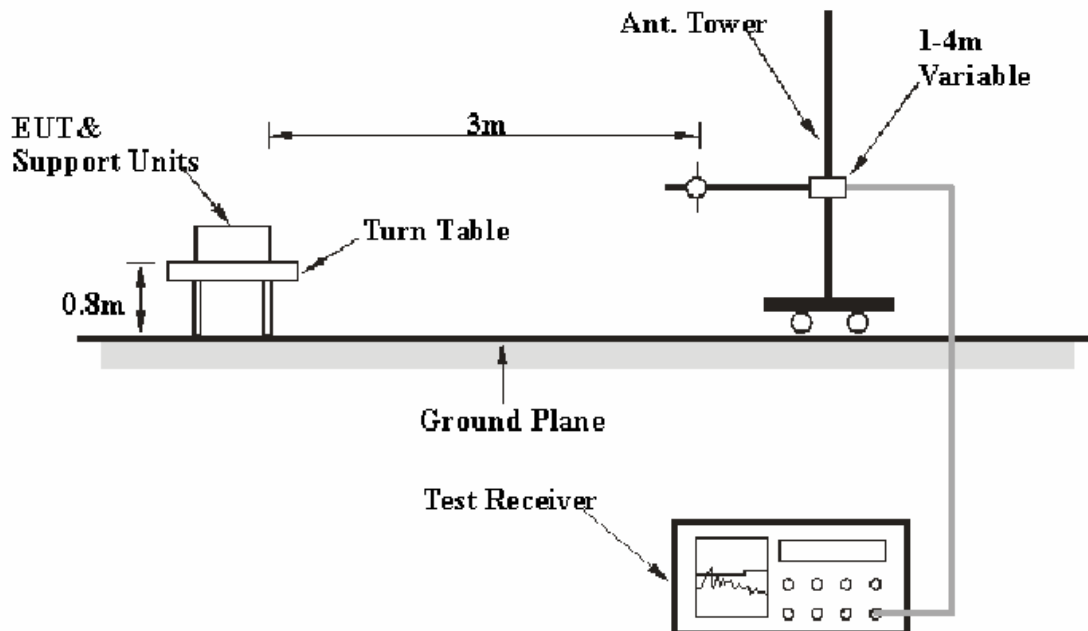
FCC §15.247 (d); §15.209; §15.205;

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR 16-4-2, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 4.0 dB(k=2, 95% level of confidence), and the uncertainty will not be taken into consideration for the test data recorded in the report.

EUT Setup



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	8447E	1937A01046	2012-11-24	2013-11-23
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2012-11-24	2013-11-24
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2014-11-27
Super Ultra	Amplifier	ZVA-213+	N/A	2012-11-24	2013-11-23
Sunol Sciences	Horn Antenna	DRH-118	A052304	2011-12-01	2014-11-30
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2012-11-24	2013-11-23
the electro-Mechanics Co.	Horn Antenna	3116	9510-2270	2010-10-14	2013-10-13

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz and peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247, with the worst margin reading of:

9.15 dB at 2483.5 MHz in the Horizontal polarization for 802.11b mode

Test Data

Environmental Conditions

Temperature:	25 °C
Relative Humidity:	50 %
ATM Pressure:	100.0 kPa

The testing was performed by Kyle Xu on 2013-05-20.

EUT operation mode: Transmitting

30 MHz-25 GHz**802.11b mode:**

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBµV/m)	FCC Part 15.247/15.205/15.209	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)
Low Channel (2412 MHz)									
2412.0	103.36	PK	78	1.1	H	6.13	109.49	/	/
2412.0	98.03	Ave.	78	1.1	H	6.13	104.16	/	/
2412.0	99.09	PK	61	1.3	V	6.13	105.22	/	/
2412.0	93.63	Ave.	61	1.3	V	6.13	99.76	/	/
503.7	43.87	QP	17	1.6	V	-10.10	33.77	46	12.23
2370.4	32.74	Ave.	115	1.1	H	5.48	38.22	54	15.78
2386.2	31.39	Ave.	274	1.2	V	6.13	37.52	54	16.48
4824.0	25.07	Ave.	93	1.4	V	12.40	37.47	54	16.53
9648.0	17.51	Ave.	113	1.1	H	19.29	36.80	54	17.20
7236.0	19.43	Ave.	68	1.2	H	16.62	36.05	54	17.95
2497.8	27.44	Ave.	35	1.1	H	7.21	34.65	54	19.35
4824.0	40.33	PK	93	1.4	V	12.40	52.73	74	21.27
9648.0	31.44	PK	113	1.1	H	19.29	50.73	74	23.27
7236.0	33.28	PK	68	1.2	H	16.62	49.90	74	24.10
2370.4	44.02	PK	115	1.1	H	5.48	49.50	74	24.50
2497.8	41.68	PK	35	1.1	H	7.21	48.89	74	25.11
2386.2	42.59	PK	274	1.2	V	6.13	48.72	74	25.28
Middle Channel (2437 MHz)									
2437.0	103.21	PK	76	1.5	H	7.21	110.42	/	/
2437.0	97.85	Ave.	76	1.5	H	7.21	105.06	/	/
2437.0	98.81	PK	10	1.1	V	7.21	106.02	/	/
2437.0	93.24	Ave.	10	1.1	V	7.21	100.45	/	/
503.7	43.44	QP	96	1.7	V	-10.10	33.34	46	12.66
4874.0	26.43	Ave.	78	1.1	V	12.46	38.89	54	15.11
9748.0	17.02	Ave.	44	1.0	V	19.40	36.42	54	17.58
7311.0	18.11	Ave.	161	1.3	V	16.49	34.60	54	19.40
9748.0	31.32	PK	44	1.0	V	19.40	50.72	74	23.28
7311.0	33.45	PK	161	1.3	V	16.49	49.94	74	24.06
2487.3	21.58	Ave.	19	1.2	H	7.21	28.79	54	25.21
2383.2	22.35	Ave.	223	1.3	H	6.13	28.48	54	25.52
4874.0	35.12	PK	78	1.1	V	12.46	47.58	74	26.42
2316.5	21.31	Ave.	158	1.1	H	5.48	26.79	54	27.21
2487.3	35.96	PK	19	1.2	H	7.21	43.17	74	30.83
2383.2	36.17	PK	223	1.3	H	6.13	42.30	74	31.70
2316.5	35.22	PK	158	1.1	H	5.48	40.70	74	33.30

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/15.205/15.209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
High Channel(2462 MHz)									
2462.0	103.11	PK	11	1.2	H	7.21	110.32	/	/
2462.0	97.76	Ave.	11	1.2	H	7.21	104.97	/	/
2462.0	98.62	PK	32	1.1	V	7.21	105.83	/	/
2462.0	93.47	Ave.	32	1.1	V	7.21	100.68	/	/
2483.5	37.64	Ave.	71	1.6	H	7.21	44.85	54	9.15
503.7	43.52	QP	69	1.3	V	-10.10	33.42	46	12.58
2498.3	34.08	Ave.	68	1.1	H	7.21	41.29	54	12.71
4924.0	26.53	Ave.	96	1.3	V	12.50	39.03	54	14.97
9848.0	17.22	Ave.	35	1.0	H	19.39	36.61	54	17.39
2483.5	47.43	PK	71	1.6	H	7.21	54.64	74	19.36
7386.0	18.02	Ave.	156	1.2	H	15.91	33.93	54	20.07
4924.0	40.52	PK	96	1.3	V	12.50	53.02	74	20.98
2498.3	44.72	PK	68	1.1	H	7.21	51.93	74	22.07
9848.0	32.49	PK	35	1.0	H	19.39	51.88	74	22.12
7386.0	32.43	PK	156	1.2	H	15.91	48.34	74	25.66
2346.7	18.71	Ave.	135	1.5	V	5.48	24.19	54	29.81
2346.7	32.63	PK	135	1.5	V	5.48	38.11	74	35.89

802.11g mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBµV/m)	FCC Part 15.247/15.205/15.209	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)
Low Channel (2412 MHz)									
2412.0	97.68	PK	116	1.2	H	6.13	103.81	/	/
2412.0	92.72	Ave.	116	1.2	H	6.13	98.85	/	/
2412.0	93.76	PK	82	1.4	V	6.13	99.89	/	/
2412.0	87.70	Ave.	82	1.4	V	6.13	93.83	/	/
503.7	42.98	QP	33	1.6	V	-10.10	32.88	46	13.12
2316.8	40.13	PK	28	1.3	H	5.48	45.61	74	28.39
2316.8	24.15	Ave.	28	1.3	H	5.48	29.63	54	24.37
2389.8	44.31	PK	38	1.1	H	6.13	50.44	74	23.56
2389.8	25.68	Ave.	38	1.1	H	6.13	31.81	54	22.19
2487.6	36.78	PK	224	1.2	V	6.81	43.59	74	30.41
2487.6	23.22	Ave.	224	1.2	V	6.81	30.03	54	23.97
4824.0	41.32	PK	135	1.3	H	12.40	53.72	74	20.28
4824.0	26.31	Ave.	135	1.3	H	12.40	38.71	54	15.29
7236.0	38.17	PK	68	1.2	H	16.62	54.79	74	19.21
7236.0	22.73	Ave.	68	1.2	H	16.62	39.35	54	14.65
9648.0	33.69	PK	11	1.3	H	19.29	52.98	74	21.02
9648.0	21.11	Ave.	11	1.3	H	19.29	40.40	54	13.60
Middle Channel (2437 MHz)									
2437.0	97.44	PK	68	1.2	H	7.21	104.65	/	/
2437.0	92.53	Ave.	68	1.2	H	7.21	99.74	/	/
2437.0	93.49	PK	12	1.1	V	7.21	100.70	/	/
2437.0	87.31	Ave.	12	1.1	V	7.21	94.52	/	/
503.7	42.81	QP	100	1.4	V	-10.10	32.71	46	13.29
2389.3	42.27	PK	31	1.1	H	6.13	48.40	74	42.27
2389.3	24.08	Ave.	31	1.1	H	6.13	30.21	54	24.08
2483.9	40.52	PK	58	1.2	H	7.21	47.73	74	26.27
2483.9	22.76	Ave.	58	1.2	H	7.21	29.97	54	24.03
2498.7	40.69	PK	13	1.1	H	7.59	48.28	74	25.72
2498.7	21.24	Ave.	13	1.1	H	7.59	28.83	54	25.17
4874.0	37.24	PK	132	1.3	H	12.46	49.70	74	24.30
4874.0	30.08	Ave.	132	1.3	H	12.46	42.54	54	11.46
7311.0	32.59	PK	168	1.2	H	16.49	49.08	74	24.92
7311.0	18.04	Ave.	168	1.2	H	16.49	34.53	54	19.47
9748.0	32.27	PK	33	1.5	V	19.40	51.67	74	22.33
9748.0	17.42	Ave.	33	1.5	V	19.40	36.82	54	17.18

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/15.205/15.209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
High Channel(2462 MHz)									
2462.0	97.83	PK	11	1.2	H	7.21	105.04	/	/
2462.0	92.91	Ave.	11	1.2	H	7.21	100.12	/	/
2462.0	93.59	PK	36	1.6	V	7.21	100.80	/	/
2462.0	87.13	Ave.	36	1.6	V	7.21	94.34	/	/
4924.0	30.24	Ave.	115	1.1	H	12.50	42.74	54	11.26
503.7	42.76	QP	90	1.6	V	-10.10	32.66	46	13.34
2483.8	31.61	Ave.	135	1.4	H	7.21	38.82	54	15.18
9848.0	18.04	Ave.	11	1.1	H	19.39	37.43	54	16.57
2483.8	48.71	PK	135	1.4	H	7.21	55.92	74	18.08
7386.0	19.03	Ave.	235	1.3	H	15.91	34.94	54	19.06
2385.3	27.24	Ave.	87	1.2	V	6.13	33.37	54	20.63
2382.9	27.11	Ave.	35	1.1	V	6.13	33.24	54	20.76
4924.0	38.93	PK	115	1.1	H	12.50	51.43	74	22.57
9848.0	31.93	PK	11	1.1	H	19.39	51.32	74	22.68
7386.0	32.59	PK	235	1.3	H	15.91	48.50	74	25.50
2382.9	41.65	PK	35	1.1	V	6.13	47.78	74	26.22
2385.3	41.47	PK	87	1.2	V	6.13	47.60	74	26.40

802.11n-HT20 mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/15.205/15.209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
Low Channel (2412 MHz)									
2412.0	92.20	PK	35	1.1	H	6.13	98.33	/	/
2412.0	76.93	Ave.	35	1.1	H	6.13	83.06	/	/
2412.0	88.69	PK	112	1.0	V	6.13	94.82	/	/
2412.0	74.58	Ave.	112	1.0	V	6.13	80.71	/	/
503.7	42.88	QP	31	1.6	V	-10.10	32.78	46	13.22
2389.5	32.77	Ave.	168	1.1	H	6.13	38.90	54	15.10
9648.0	18.44	Ave.	33	1.0	H	19.29	37.73	54	16.27
7236.0	20.03	Ave.	268	1.2	V	16.62	36.65	54	17.35
4824.0	22.41	Ave.	74	1.0	V	12.40	34.81	54	19.19
4824.0	41.33	PK	74	1.0	V	12.40	53.73	74	20.27
2389.5	46.76	PK	168	1.1	H	6.13	52.89	74	21.11
2492.3	23.87	Ave.	83	1.2	H	7.21	31.08	54	22.92
2492.3	43.68	PK	83	1.2	H	7.21	50.89	74	23.11
9648.0	31.58	PK	33	1.0	H	19.29	50.87	74	23.13
7236.0	31.56	PK	268	1.2	V	16.62	48.18	74	25.82
2316.4	17.83	Ave.	26	1.3	H	5.48	23.31	54	30.69
2316.4	31.44	PK	26	1.3	H	5.48	36.92	74	37.08
Middle Channel (2437 MHz)									
2437.0	93.86	PK	68	1.2	H	7.21	101.07	/	/
2437.0	79.37	Ave.	68	1.2	H	7.21	86.58	/	/
2437.0	89.63	PK	113	1.1	V	7.21	96.84	/	/
2437.0	74.19	Ave.	113	1.1	V	7.21	81.40	/	/
503.7	42.58	QP	77	1.9	V	-10.10	32.48	46	13.52
9748.0	19.06	Ave.	77	1.3	H	19.40	38.46	54	15.54
7311.0	17.96	Ave.	168	1.2	V	16.49	34.45	54	19.55
4874.0	39.87	PK	132	1.3	V	12.46	52.33	74	21.67
4874.0	19.58	Ave.	132	1.3	V	12.46	32.04	54	21.96
9748.0	32.44	PK	77	1.3	H	19.40	51.84	74	22.16
2491.2	22.68	Ave.	274	1.3	V	6.81	29.49	54	24.51
2383.6	22.37	Ave.	113	1.1	H	6.13	28.50	54	25.50
7311.0	31.69	PK	168	1.2	V	16.49	48.18	74	25.82
2331.5	19.63	Ave.	354	1.4	V	5.48	25.11	54	28.89
2491.2	35.74	PK	274	1.3	V	6.81	42.55	74	31.45
2383.6	32.66	PK	113	1.1	H	6.13	38.79	74	35.21
2331.5	32.68	PK	354	1.4	V	5.48	38.16	74	35.84

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/15.205/15.209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
High Channel(2462 MHz)									
2462.0	94.42	PK	21	1.6	H	7.21	101.63	/	/
2462.0	79.68	Ave.	21	1.6	H	7.21	86.89	/	/
2462.0	93.99	PK	13	1.1	V	7.21	101.20	/	/
2462.0	87.81	Ave.	13	1.1	V	7.21	95.02	/	/
503.7	42.85	QP	33	1.5	V	-10.10	32.75	46	13.25
9848.0	19.58	Ave.	18	1.2	V	19.39	38.97	54	15.03
2488.6	29.82	Ave.	62	1.3	H	7.21	37.03	54	16.97
7386.0	19.23	Ave.	235	1.3	V	15.91	35.14	54	18.86
4924.0	22.31	Ave.	115	1.1	V	12.50	34.81	54	19.19
4924.0	40.69	PK	115	1.1	V	12.50	53.19	74	20.81
9848.0	32.47	PK	18	1.2	V	19.39	51.86	74	22.14
2488.6	43.03	PK	62	1.3	H	7.21	50.24	74	23.76
2483.7	22.79	Ave.	176	1.2	H	7.21	30.00	54	24.00
2344.6	23.67	Ave.	131	1.1	H	5.48	29.15	54	24.85
7386.0	31.73	PK	235	1.3	V	15.91	47.64	74	26.36
2483.7	38.88	PK	176	1.2	H	7.21	46.09	74	27.91
2344.6	32.88	PK	131	1.1	H	5.48	38.36	74	35.64

802.11n-HT40 mode:

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBµV/m)	FCC Part 15.247/15.205/15.209	
	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)
Low Channel (2422 MHz)									
2422.0	87.45	PK	23	1.2	H	6.13	93.58	/	/
2422.0	69.07	Ave.	23	1.2	H	6.13	75.20	/	/
2422.0	84.37	PK	119	1.3	V	6.13	90.50	/	/
2422.0	65.89	Ave.	119	1.3	V	6.13	72.02	/	/
4844.0	31.11	Ave.	67	1.2	H	12.40	43.51	54	10.49
503.7	42.03	QP	33	1.5	V	-10.10	31.93	46	14.07
9688.0	17.93	Ave.	85	1.2	V	19.29	37.22	54	16.78
2485.6	27.69	Ave.	49	1.3	H	7.21	34.90	54	19.10
7266.0	18.06	Ave.	113	1.3	V	16.62	34.68	54	19.32
4844.0	39.06	PK	67	1.2	H	12.40	51.46	74	22.54
9688.0	31.73	PK	85	1.2	V	19.29	51.02	74	22.98
2485.6	43.55	PK	49	1.3	H	7.21	50.76	74	23.24
7266.0	32.04	PK	113	1.3	V	16.62	48.66	74	25.34
2330.1	22.49	Ave.	97	1.2	V	5.48	27.97	54	26.03
2372.6	21.77	Ave.	33	1.1	V	6.13	27.90	54	26.10
2330.1	38.41	PK	97	1.2	V	5.48	43.89	74	30.11
2372.6	37.59	PK	33	1.1	V	6.13	43.72	74	30.28
Middle Channel (2437 MHz)									
2437.0	87.32	PK	16	1.2	H	7.21	94.53	/	/
2437.0	68.94	Ave.	16	1.2	H	7.21	76.15	/	/
2437.0	84.22	PK	75	1.1	V	7.21	91.43	/	/
2437.0	65.81	Ave.	75	1.1	V	7.21	73.02	/	/
4874.0	30.11	Ave.	59	1.3	H	12.46	42.57	54	11.43
503.7	42.24	QP	176	1.3	V	-10.10	32.14	46	13.86
9748.0	18.77	Ave.	68	1.2	H	19.40	38.17	54	15.83
7311.0	19.43	Ave.	71	1.4	H	16.49	35.92	54	18.08
2485.6	26.59	Ave.	38	1.1	H	7.21	33.80	54	20.20
2355.2	28.23	Ave.	96	1.4	H	5.48	33.71	54	20.29
9748.0	31.83	PK	68	1.2	H	19.40	51.23	74	22.77
4874.0	38.32	PK	59	1.3	H	12.46	50.78	74	23.22
2493.7	23.12	Ave.	142	1.2	V	7.21	30.33	54	23.67
7311.0	32.19	PK	71	1.4	H	16.49	48.68	74	25.32
2485.6	40.73	PK	38	1.1	H	7.21	47.94	74	26.06
2355.2	41.71	PK	96	1.4	H	5.48	47.19	74	26.81
2493.7	36.43	PK	142	1.2	V	7.21	43.64	74	30.36

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBμV/m)	FCC Part 15.247/15.205/15.209	
	Reading (dBμV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)			Limit (dBμV/m)	Margin (dB)
High Channel(2452 MHz)									
2452.0	87.59	PK	68	1.2	H	7.21	94.80	/	/
2452.0	69.48	Ave.	68	1.2	H	7.21	76.69	/	/
2452.0	84.46	PK	11	1.1	V	7.21	91.67	/	/
2452.0	65.93	Ave.	11	1.1	V	7.21	73.14	/	/
4904.0	30.03	Ave.	36	1.6	V	12.46	42.49	54	11.51
503.7	42.18	QP	79	1.1	V	-10.10	32.08	46	13.92
9808.0	18.72	Ave.	13	1.5	V	19.29	38.01	54	15.99
2495.6	30.36	Ave.	46	1.5	V	7.21	37.57	54	16.43
2484.2	29.93	Ave.	73	1.4	V	7.21	37.14	54	16.86
7356.0	19.03	Ave.	85	1.1	V	15.91	34.94	54	19.06
9808.0	31.09	PK	13	1.5	V	19.29	50.38	74	23.62
4904.0	37.69	PK	36	1.6	V	12.46	50.15	74	23.85
2332.5	23.71	Ave.	98	1.3	H	5.48	29.19	54	24.81
2484.2	41.32	PK	73	1.4	V	7.21	48.53	74	25.47
7356.0	32.44	PK	85	1.1	V	15.91	48.35	74	25.65
2495.6	39.97	PK	46	1.5	V	7.21	47.18	74	26.82
2332.5	35.41	PK	98	1.3	H	5.48	40.89	74	33.11

Note:

- 1) Corrected Amplitude = Corrected Factor + Reading
- 2) Corrected Factor=Antenna factor (RX) + Cable loss – Amplifier factor
- 3) Margin = Limit - Corrected Amplitude

FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Results

Please refer to the report RSZ130513003-00B for Shenzhen CE and IT Limited with FCC ID: YG5STEALTH-8 issued by Bay Area Compliance Laboratories Corp. (Shenzhen) on 2013-05-23.

FCC §15.247(b) (3) - MAXIMUM PEAK OUTPUT POWER

Applicable Standard

According to §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Results

Please refer to the report RSZ130513003-00B for Shenzhen CE and IT Limited with FCC ID: YG5STEALTH-8 issued by Bay Area Compliance Laboratories Corp. (Shenzhen) on 2013-05-23.

FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Results

Please refer to the report RSZ130513003-00B for Shenzhen CE and IT Limited with FCC ID: YG5STEALTH-8 issued by Bay Area Compliance Laboratories Corp. (Shenzhen) on 2013-05-23.

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Results

Please refer to the report RSZ130513003-00B for Shenzhen CE and IT Limited with FCC ID: YG5STEALTH-8 issued by Bay Area Compliance Laboratories Corp. (Shenzhen) on 2013-05-23.

DECLARATION LETTER



Shenzhen CE and IT Limited

113 Zhenxing Road, Xinxin Building, Tower B, Suite 501, Futian District, Shenzhen, China
Tel: 86-755-83689256 Fax: 86-755-83778726

Product Similarity Declaration

June 18, 2013

To:
FEDERAL COMMUNICATIONS COMMISSIONS
Authorization and Evaluation Division
7435 Oakland Mills Road
Columbia, MD 21046


Dear Sir or Madam:

We, Shenzhen CE and IT Limited, hereby declare that our product: Tablets; model: Trio Stealth - 10 (FCC ID: YG5STEALTH-10) has the same radio frequency circuitry with previous approved product Tablets, model: Trio Stealth - 8 (FCC ID: YG5STEALTH-8) that was certified by BACL. In other words they share the same PCB layout, antenna location and antenna type, and they also have the same RF output power and software setup procedure, the differences between these two models for details as below:

1. The battery capacity is different.
2. The screen size is different.
3. The screen resolution is different.

Please contact me should there be need for any additional clarification or information.

Best Regards,


Benjamin Dolgin-Gardner
General Manager

BACL-NF0028-A

*****END OF REPORT*****