



FCC PART 15D

MEASUREMENT AND TEST REPORT

For

RTX Hong Kong Ltd.

11/F, CAC Tower, 165 Hoi Bun Road, Kwun Tong, Kowloon, Hong Kong

FCC ID: T7HCT8122

Report Type: Product Type: Cordless DECT handset Original Report xiao Jimmy **Test Engineer:** Jimmy Xiao **Report Number:** RSZ120613001-00B **Report Date:** 2012-08-17 Sola Hugof Sula Huang **Reviewed By:** RF Engineer Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building, **Test Laboratory:** ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Shenzhen). This report **must not** be used by the customer to claim product certification, approval, or endorsement by NVLAP*, or any agency of the Federal Government.

^{*} This report may contain data that are not covered by the NVLAP accreditation and shall be marked with an asterisk "*"

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The RTX Hong Kong Ltd.'s product, model number: G566d DECT Handset (FCC ID: T7HCT8122) (or the "EUT") in this report was a Cordless DECT handset, which was measured approximately: 14.5 cm (L) x 4.5 cm (W) x 1.7 cm (H), input voltage: DC 3.7V Li-ion battery or DC 5V from adapter for charger.

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Adapter information: AC/DC ADAPTER

Model: FW7713

Input: 100-240V~50/60 Hz, 150mA

Output: 5.0V DC 1000mA

Note: The product: Cordless DECT handset, the models RTX8122d DECT Handset, RTX8122s DECT Handset and G566s DECT Handset are electrically identical with the model G566d DECT Handset, which was selected to test, the differences among them were the model number, trade name and appearance color, which was explained in the attached product similarity declaration letter.

*All measurement and test data in this report was gathered from production sample serial number: 1206038 (Assigned by BACL, Shenzhen). The EUT supplied by applicant was received on 2012-06-13.

Objective

This test report was based on the Electromagnetic Interference (EMI) tests performed on the EUT. The EMI measurements were performed according to the measurement procedure described in ANSI C63.17 - 2006 and ANSI C64.3 2009.

The tests were performed in order to determine the compliance of the EUT with FCC Part 15-Subpart D, section 15.203, 15.315, 15.317, 15.319 and 15.323 rules.

Related Submittal(s)/Grant(s)

No related Submitted.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.17 - 2006, 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 radiated and conducted 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.

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Test Facility

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

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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.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



The current scope of accreditations can be found at http://ts.nist.gov/Standards/scopes/2007070.htm

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in TBR6 mode which is provided by the manufacturer.

Equipment Modifications

No modification was made to the EUT tested.

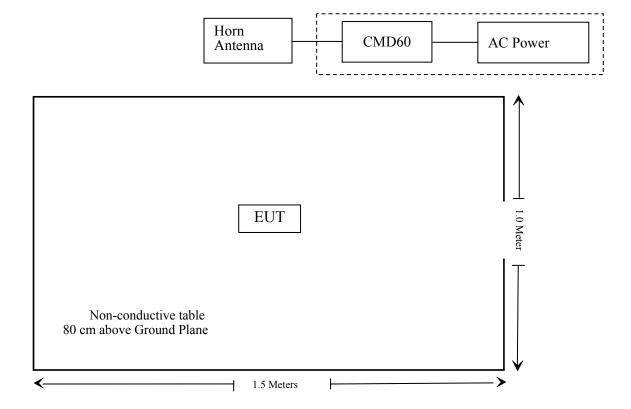
Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
R & S	Digital Radio-Communication Tester	CMD60	829902/026

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Block Diagram of Test Setup

For Radiated Emission:



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§ 15.319 (i); §2.1093	RF Radiation Exposure	Compliance
§ 15.317 § 15.203	Antenna Requirement	Compliance
§ 15.315 § 15.207	Conducted Emission	Compliance
§ 15.323 (a)	Emission Bandwidth	Compliance
§ 15.319 (c)	Peak Transmit Power	Compliance
§ 15.319 (d)	Power Spectral Density	Compliance
§ 15.323 (d)	Emission Inside and Outside the sub-band	Compliance
§ 15.319 (g)	Radiated Emission	Compliance
§ 15.323 (f)	Frequency Stability Handset	Compliance
§ 15.323 (c)(e) § 15.319 (f)	Specific Requirements for UPCS	Compliance

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FCC §15. 319 (i) & §2.1093 - RF EXPOSURE

Applicable Standard

According to FCC §15.319 (i) Unlicensed PCS devices are subject to the radiofrequency radiation exposure requirements specified in §1.1307(b), 2.1091and 2.1093 of this chapter, as appropriate. All equipment shall be considered to operate in a general population/uncontrolled environment. Applications for equipment authorization of devices operating under this section must contain a statement confirming compliance with these requirements for both fundamental emissions and unwanted emissions. Technical information showing the basis for this statement must be submitted to the Commission upon request. According to KDB 447498 D01 Mobile Portable RF Exposure v04 1) c): Unless excluded by specific FCC test procedures, portable devices with output power > 60/f (GHz) mW shall include SAR data for equipment approval.

RF Exposure Evaluation

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Maximum peak output power at antenna input terminal:
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1928.448 MHz: 20.00 dBm = 100 mW

The Time-based average power at antenna input terminal = Peak output power *Duty cycle

=100*4.21% = 4.21 mW Report No.: RSZ120613001-00B

60/f (GHz) = 60/1.928448 (GHz) = 31.11 mW

The time-based average power is less than 60/f(GHz)

So the SAR evaluation can be exempted.

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FCC §15.317 & §15.203 - ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 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 use of a standard antenna jack or electrical connector is prohibited.

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Antenna Connector Construction

This product has two integrated antenna with gain 0 dBi arrangement which was soldered on PCB, fulfill the requirement of this section, and please refer to the internal photos.

Result: Compliant.

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FCC §15.315 & §15.207 - CONDUCTED EMISSIONS

Applicable Standard

FCC§15.315 An unlicensed PCS device that is designed to be connected to the public utility (AC) power line must meet the limits specified in §15.207.

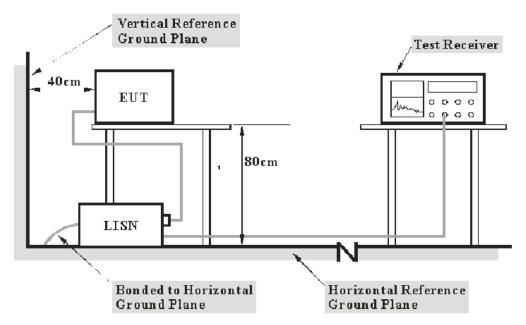
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Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on CISPR 16-4-4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 2.4 dB (k=2, 95% level of confidence).

EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMIN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure is in according with per ANSI C63.4-2009. The related limit was specified in the FCC Part 15.107 Class B.

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.

The adapter was connected to a 120 VAC/60 Hz power source.

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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:

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Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2011-11-24	2012-11-23
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2011-11-17	2012-11-16
Rohde & Schwarz	Attenuator	ESH3Z2	DE25985	2011-07-08	2012-07-07
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 NVLAP requirements, traceable to the NIST.

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of 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), Cable Loss and Pulse Limiter Attenuation. The basic equation is as follows:

Correction Factor = LISN VDF + Cable Loss + Pulse Limiter Attenuation

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:

Margin = Limit – Corrected Amplitude

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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:

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18.68 dB at 0.500 MHz in the Line conducted mode

Test Data

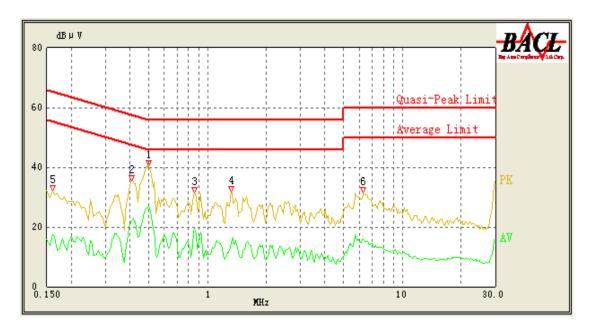
Environmental Conditions

Temperature:	25 °C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Jimmy Xiao on 2012-06-29.

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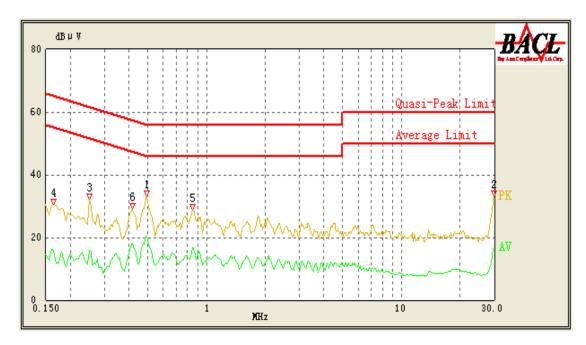
Test Mode: Charging
AC 120V/60 Hz, Line



Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.500	27.32	9.69	46.00	18.68	Ave.
0.500	34.11	9.69	56.00	21.89	QP
0.410	22.29	9.66	48.57	26.28	Ave.
0.855	19.55	9.82	46.00	26.45	Ave.
0.410	29.51	9.66	58.57	29.06	QP
0.855	26.86	9.82	56.00	29.14	QP
1.325	25.01	9.88	56.00	30.99	QP
1.320	14.77	9.88	46.00	31.23	Ave.
6.360	15.56	10.07	50.00	34.44	Ave.
6.300	25.53	10.07	60.00	34.47	QP
0.160	17.52	9.64	55.71	38.19	Ave.
0.160	24.56	9.64	65.71	41.15	QP

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AC 120V/ 60 Hz, Neutral:



Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.495	20.55	9.69	46.14	25.59	Ave.
0.495	27.29	9.69	56.14	28.85	QP
0.850	16.99	9.82	46.00	29.01	Ave.
0.415	18.05	9.67	48.43	30.38	Ave.
29.965	28.45	11.33	60.00	31.55	QP
0.850	23.90	9.82	56.00	32.10	QP
29.720	16.93	11.36	50.00	33.07	Ave.
0.415	24.27	9.67	58.43	34.16	QP
0.250	26.95	9.66	63.14	36.19	QP
0.250	15.83	9.66	53.14	37.31	Ave.
0.165	15.89	9.67	55.57	39.68	Ave.
0.165	25.22	9.67	65.57	40.35	QP

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FCC §15.323 (a) - EMISSION BANDWIDTH

Applicable Standard

FCC§15.323(a) Operation shall be contained within the 1920–1930 MHz band. The emission bandwidth shall be less than 2.5 MHz. The power level shall be as specified in §15.319(c), but in no event shall the emission bandwidth be less than 50 kHz.

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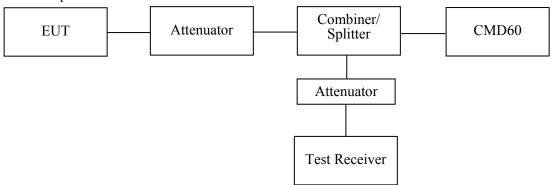
Test Procedure

The emission bandwidth is measured in accordance with ANSI C63.17 sub-clause 6.1.3 using the setup below

Using the manufacturer's information on occupied bandwidth set the spectrum analyzer as follows:

Resolution band width	1.0% of the emission bandwidth (as close as possible)
Video bandwidth	\geqslant 3×the resolution bandwidth
Span	\geq 2×the expected emission bandwidth
Center frequency	Nominal center frequency of channel
Sweep time	Coupled to frequency span and RBW
Amplitude scale	Log
Detection	peak detection with maximum hold enabled

Test Setup:



The width, in Hz, of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that is 26 dB down relative to the maximum level of the modulated carrier. It is based on the use of measurement instrumentation employing a peak detector function with an instrument resolution bandwidth approximately equal to 1% of the emission band-width of the device under measurement. [Extraction from 47 CFR 15, subpart D, 15.303 (C)].

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Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23

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Test Data

Environmental Conditions

Temperature:	20 °C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Jimmy Xiao on 2012-06-14.

Test Mode: Transmitting

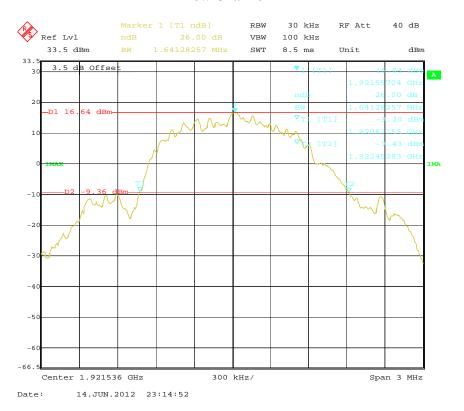
Channel	Center Frequency (MHz)	26 dB Bandwidth (MHz)	Limit
Low	1921.536	1.641	50 kHz < OBW < 2.5 MHz
Middle	1924.992	1.641	50 kHz < OBW < 2.5 MHz
High	1928.448	1.641	50 kHz < OBW < 2.5 MHz

Test Result: Compliance. Please refer to the attached plots.

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^{*} **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

Low Channel



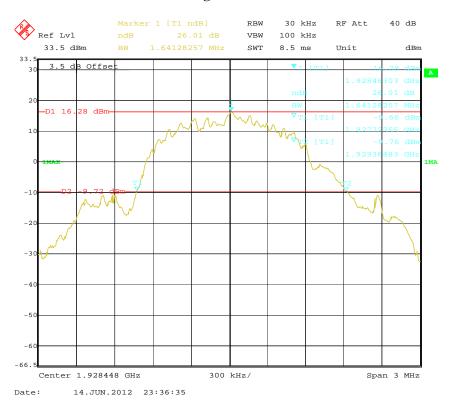
Middle Channel



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High Channel



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FCC §15.319 (c) - PEAK TRANSMIT POWER

Applicable Standard

The peak power output as measured over an interval of time equal to the transmission-burst duration of the device under all conditions of modulation. [47 CFR 15, subpart D, 15.303 (f)].

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Part 15.323(a) & Part 15.319(c) Peak Transmit Power:

The limit for Peak Transmit Power (PTP) is calculated using the following formula:

 $PTP = 100 \mu W x (EBW)^{1}$

EBW is the transmit emission bandwidth in Hz determined in the other test item:

The peak transmitter power is measured in accordance with ANSI C63.17-2006 Clause 6.1.2.

Test Procedure

Using the manufacturer's information on occupied bandwidth set the spectrum analyzer as follows:

RBW	≥ Emission bandwidth
Video bandwidth	≥RBW
Span	Zero
Center frequency	Nominal center frequency of channels
Amplitude scale	Log (linear may be used if analyzer has sufficient linear dynamic range and accuracy)
Detection	Peak detection
Trigger	Video
Sweep rate	Sufficiently rapid to permit the transmit pulse to be resolved accurately

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23

^{*} **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

Test Data

Environmental Conditions

Temperature:	20 °C
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Jimmy Xiao on 2012-06-19.

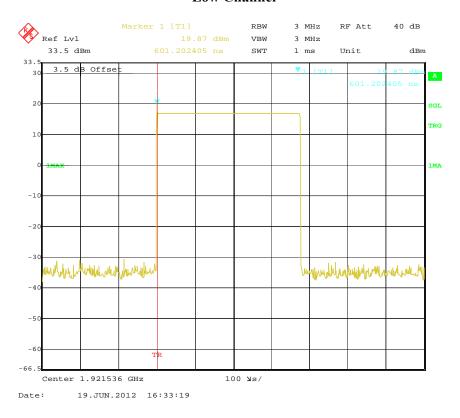
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Channel	Frequency (MHz)	Peak Transmit Power (dBm)	Limit (dBm)	
Low	1921.536	19.87	21.07	
Middle	1924.992	19.93	21.07	
High	1928.448	20.00	21.07	
EBW _{Low channel} = 1641000 Hz, EBW _{Middle channel} = 1641000 Hz, EBW _{High channel} = 1641000 Hz				

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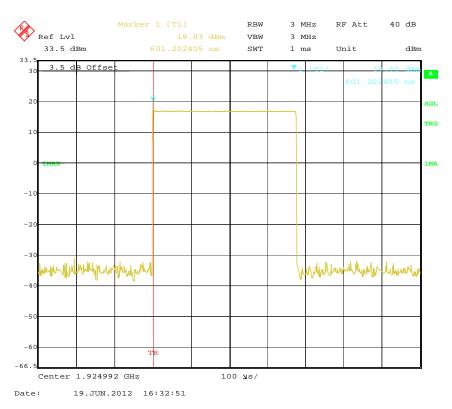
Peak Transmit Power Limit = $100 \mu w \times (EBW)^{1/2}$

Low Channel

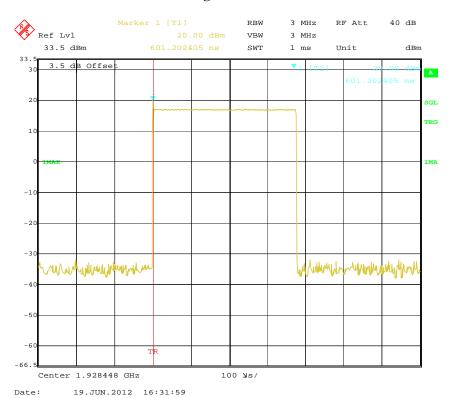


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Middle Channel



High Channel



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FCC §15.319 (d) - POWER SPECTRAL DENSITY

Applicable Standard

The average pulse energy in a 3 kHz bandwidth is divided by the pulse duration.

The power spectral density shall not exceed 3mW in any 3 kHz bandwidth as measured with a spectrum analyzer having a resolution bandwidth of 3 kHz.

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The power spectral density is measured in accordance with ANSI C63.17.2006 Clause 6.1.5.

Test Procedure

Using the manufacturer's information on occupied bandwidth set the spectrum analyzer as follows:

RBW	3 kHz
Video bandwidth	\geq 3 × RBW
Span	Zero span at frequency with the maximum level (frequency determined in 6.1.3 if the same type of signal (continuous versus burst) was used in 6.1.3)
Center frequency	Spectral peak as determined in 6.1.3
Sweep time	For burst signals, sufficient to include essentially all of the maximum length burst at the output of a 3 kHz filter (e.g., maximum input burst duration plus 600 μ s). For continuous signals, 20 ms.
Amplitude scale	Log power
Detection	Sample detection and averaged for a minimum of 100 sweeps
Trigger	External or internal

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2011-11-17	2012-11-16

^{*} **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	56 %
ATM Pressure:	100.0 kPa

The testing was performed by Jimmy Xiao on 2012-06-20.

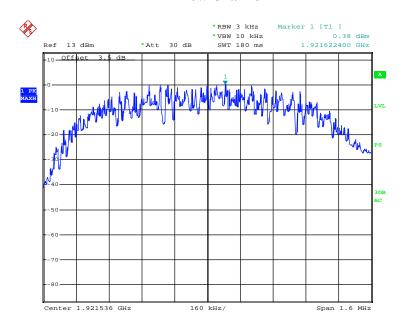
Test Mode: Transmitting

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Frequency	Power Spec	tral Density	Limit	Result	
(MHz)	(dBm/3 kHz)	(mW/3 kHz)	(mW/3 kHz)		
1921.536	-14.11	0.0388	3	Pass	
1924.992	-13.28	0.0469	3	Pass	
1928.448	-12.45	0.0569	3	Pass	

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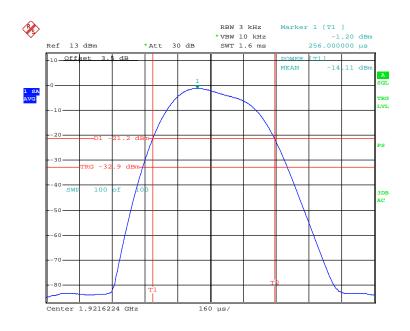
Low Channel



EUT

Date: 20.JUN.2012 10:50:44

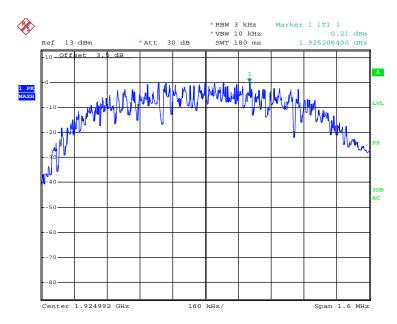
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EUT

Date: 20.JUN.2012 10:53:15

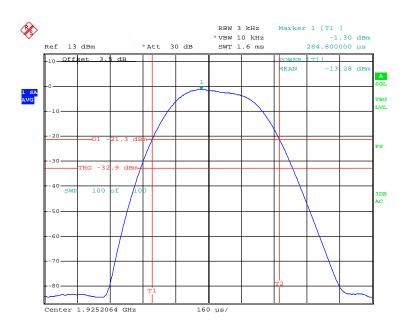
Middle Channel



EUT

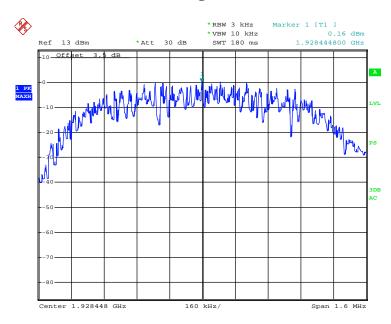
Date: 20.JUN.2012 10:46:20

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EUT
Date: 20.JUN.2012 10:47:34

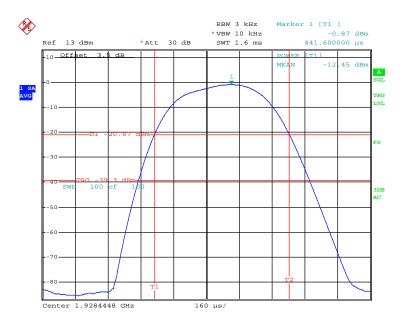
High Channel



EUT

Date: 20.JUN.2012 10:37:29

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EUT

Date: 20.JUN.2012 10:40:56

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FCC §15.323 (d) - EMISSION INSIDE AND OUTSIDE THE SUB-BAND

Applicable Standard

Emissions inside the sub-band must comply with the following emission mask:

- 1. In the bands between 1B and 2B measured from the center of the emission bandwidth the total power emitted by the device shall be at least 30 dB below the transmit power permitted for that device.
- 2. in the bands between 2B and 3B measured from the center of the emission bandwidth the total power emitted by an intentional radiator shall be at least 50 dB below the transmit power permitted for that radiator:

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3. in the bands between 3B and the sub-band edge the total power emitted by an intentional radiator in the measurement bandwidth shall be at least 60 dB below the transmit power permitted for that radiator.

Where B = emission bandwidth

Emission Outside the sub-band shall be attenuated below a reference power of 112 mw (20.5 dBm) as follows:

- 1. 30 dB between the sub-band and 1.25 MHz above or below the sub-band;
- 2. 50 dB between 1.25 and 2.5 MHz above or below the sub-band;
- 3. 60 dB at 2.5 MHz or greater above or below the sub-band.

Test Procedure

According to ANSI C63.17 sub-clause 6.1.6.1 and 6.1.6.2

Using the manufacturer's information on occupied bandwidth set the spectrum analyzer as follows:

RBW	Approximately 1% of the emission bandwidth
Video bandwidth	$3 \times RBW$
Sweep time	The sweep time shall be sufficiently slow that the swept frequency rate shall not exceed one RBW per three transmit bursts
Amplitude scale	Log
Detection	Peak detection and max hold detection
Span	Approximately equal to 3.5 B

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23

^{*} **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

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Test Data

Environmental Conditions

Temperature:	20-25 °C
Relative Humidity:	56-60 %
ATM Pressure:	100.0-100.1 kPa

The testing was performed by Jimmy Xiao from 2012-06-14 and 2012-06-15.

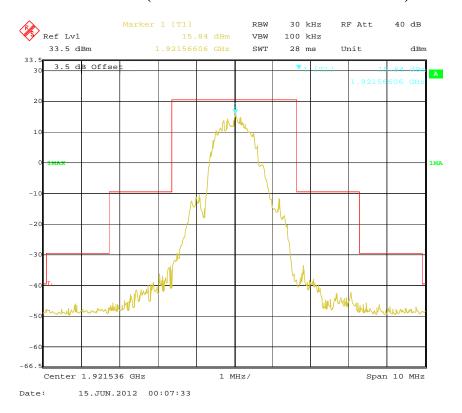
Report No.: RSZ120613001-00B

Test Mode: Transmitting

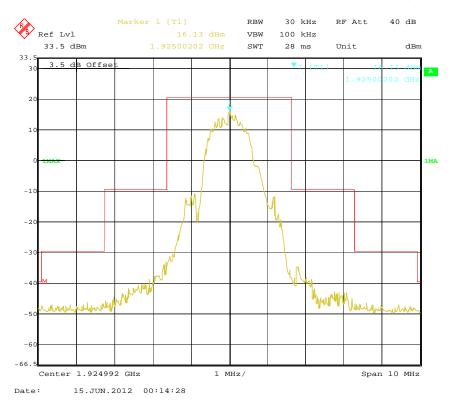
Test Result: Compliance. Please refer to following tables and plots

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Low Channel (Unwanted Emission inside the Sub-band)

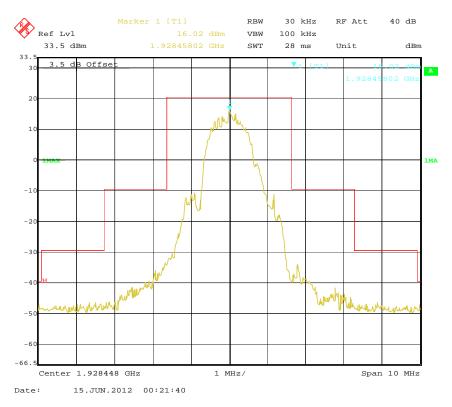


Middle Channel (Unwanted Emission inside the Sub-band)

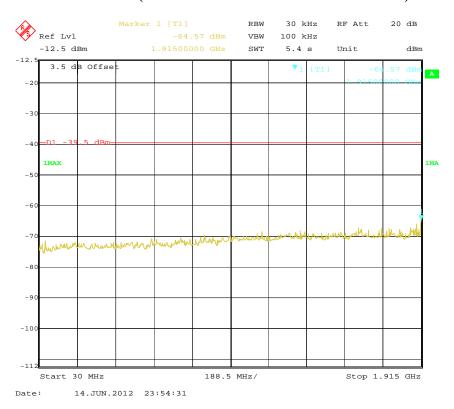


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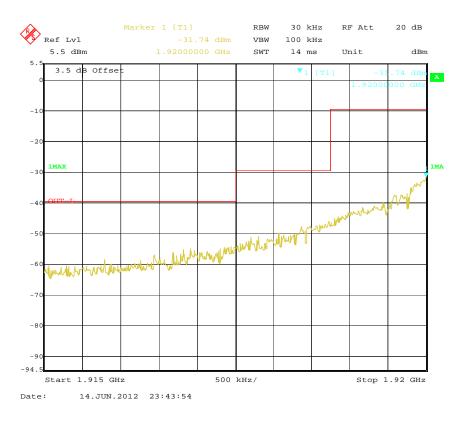
High Channel (Unwanted Emission inside the Sub-band)

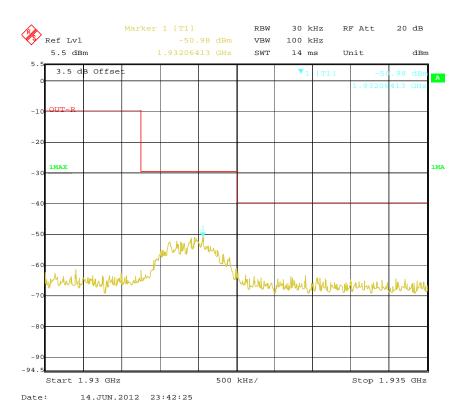


Low Channel (Unwanted Emission outside the Sub-band)

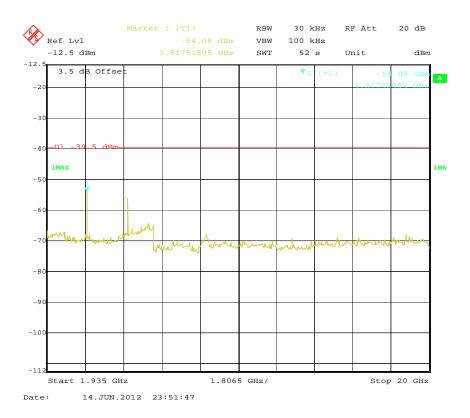


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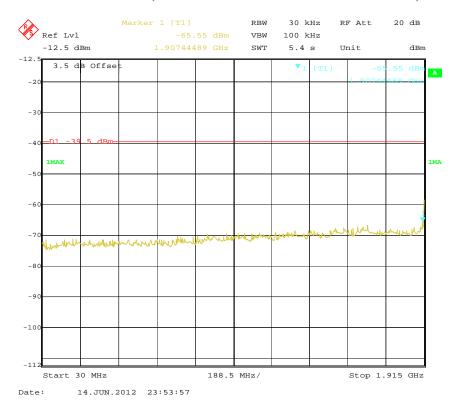




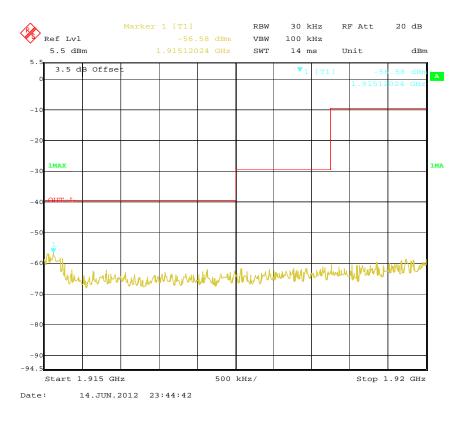
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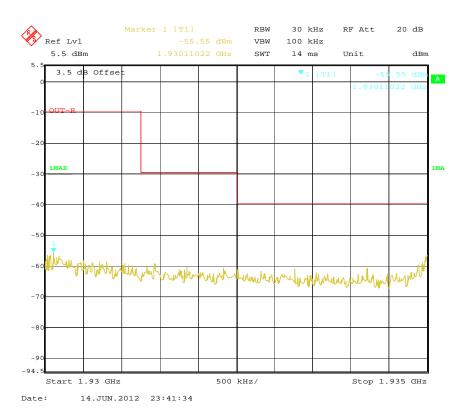


Middle Channel (Unwanted Emission outside the Sub-band)

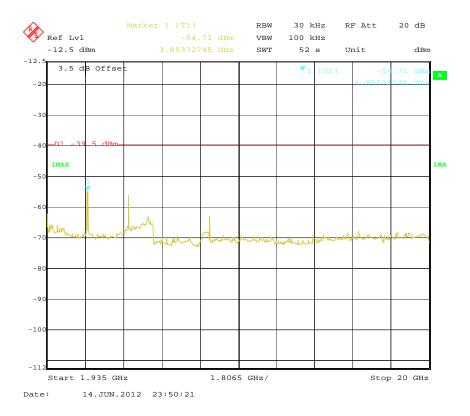


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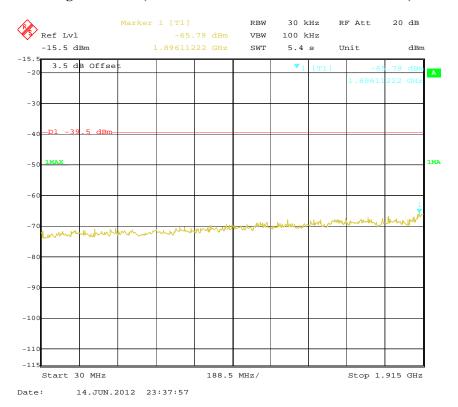




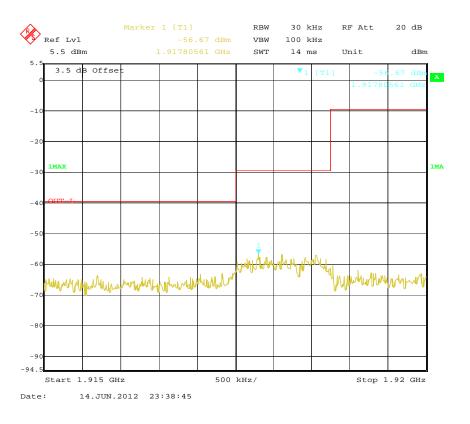
FCC Part 15D Page 33 of 52

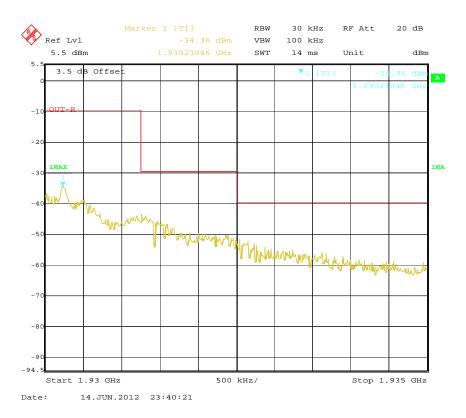


High Channel (Unwanted Emission outside the Sub-band)

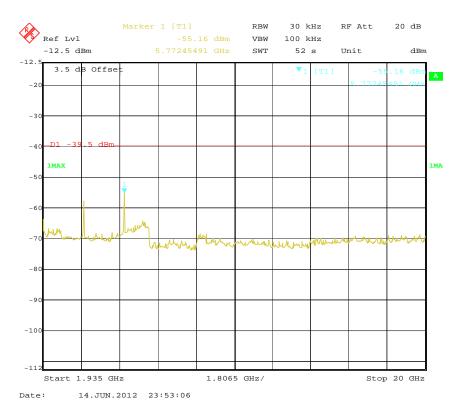


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FCC §15.319 (g) - RADIATED EMISSIONS

Applicable Standard

FCC§15.319(g) Notwithstanding other technical requirements specified in this subpart, attenuation of emissions below the general emission limits in §15.209 is not required.

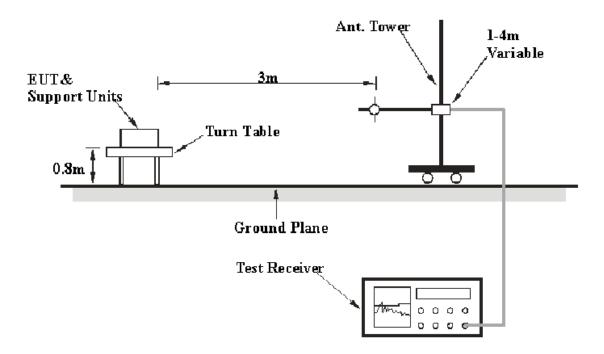
Report No.: RSZ120613001-00B

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 16-4-4, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at Bay Area Compliance Laboratories Corp. (Shenzhen) is 4.0 dB (k=2, 95% level of confidence).

EUT Setup



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.17 - 2006. The specification used was the FCC 15§ 15.319(g).

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

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EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 20 GHz.

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

Report No.: RSZ120613001-00B

Frequency Range	RBW	Video B/W
30MHz – 1000 MHz	100 kHz	300 kHz
Above 1 GHz	1 MHz	3 MHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	8447E	1937A01046	2011-11-24	2012-11-23
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2011-11-17	2012-11-16
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2011-11-28	2012-11-27
Mini-Circuits	Amplifier	ZVA-213+	N/A	2011-11-24	2012-11-23
Sunol Sciences	Horn Antenna	DRH-118	A052304	2011-12-01	2012-11-30
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2011-11-24	2012-11-23
the electro- Mechanics Co.	Horn Antenna	3116	9510-2270	2011-10-14	2012-10-13
R&S	Auto test Software	EMC32	V6.30	-	-

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

According to ANSI C63.17 sub-clause 6.1.6.2

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:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss- 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 maximum limit. The equation for margin calculation is as follows:

Margin = Limit - Corrected Amplitude

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Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.319 (g), with the worst margin reading of:

16.83 dB at 5785.2 MHz in the Vertical polarization

Report No.: RSZ120613001-00B

Test Data

Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	50 %
ATM Pressure:	100.0 kPa

The testing was performed by Jimmy Xiao on 2012-06-27.

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Test Mode: Transmitting

Note: As the Handset unit has 2 antennas, both have been checked. While conducting the test on one of antennas, another was being disable its transmission. The data in this report represented the worst-case.

Report No.: RSZ120613001-00B

1) 30 MHz ~ 20 GHz:

	Meter			Tes	st Ante	enna	Cable	Pre-	Cord.	FCC Part	15.319(g)/209/205
Freq. (MHz)	Reading (dBµV)	Detector PK/QP/Ave	Direction Degree		Polar (H/V)	Antenna Factor	Loss (dB)	Amp. Gain (dB)	Amp.	Limit ((dBµV/m)	Margin (dB)	Remarks
	Low Channel											
1921.536	83.09	PK	254	1.3	Н	26.6	2.53	/	112.22	/	/	Fund.
1921.536	86.27	PK	135	1.4	V	26.6	2.53	/	115.40	/	/	Fund.
5764.6	41.84	PK	44	1.0	Н	35.8	4.57	26.50	55.71	74	18.29	Harmonic
5764.6	41.10	PK	357	1.1	V	35.8	4.57	26.50	54.97	74	19.03	Harmonic
7686.3	35.90	PK	43	1.6	Н	37.7	5.27	26.50	52.37	74	21.63	Harmonic
7686.3	35.82	PK	169	1.3	V	37.7	5.27	26.50	52.29	74	21.71	Harmonic
3843.1	41.77	PK	35	1.3	V	33.0	3.73	26.50	52.00	74	22.00	Harmonic
3843.1	40.02	PK	13	1.2	Н	33.0	3.73	26.50	50.25	74	23.75	Harmonic
					Mic	ddle Chan	nel					
1924.992	82.43	PK	65	1.3	Н	26.6	2.97	/	112.00	/	/	Fund.
1924.992	86.17	PK	43	1.5	V	26.6	2.97	/	115.74	/	/	Fund.
5774.9	41.99	PK	254	1.2	V	35.8	4.57	26.50	55.86	74	18.14	Harmonic
5774.9	41.40	PK	47	1.7	Н	35.8	4.57	26.50	55.27	74	18.73	Harmonic
3849.8	43.59	PK	135	1.2	V	33.0	3.73	26.50	53.82	74	20.18	Harmonic
7699.6	36.30	PK	68	1.3	V	37.7	5.27	26.50	52.77	74	21.23	Harmonic
7699.6	35.46	PK	135	1.1	Н	37.7	5.27	26.50	51.93	74	22.07	Harmonic
3849.8	41.13	PK	114	1.3	Н	33.0	3.73	26.50	51.36	74	22.64	Harmonic
					Hi	gh Chann	el					
1928.448	81.70	PK	36	1.2	Н	26.6	2.97	/	111.27	/	/	Fund.
1928.448	85.44	PK	44	1.3	V	26.6	2.97	/	115.01	/	/	Fund.
5785.2	43.30	PK	25	1.4	V	35.8	4.57	26.50	57.17	74	16.83	Harmonic
5785.2	41.57	PK	135	1.1	Н	35.8	4.57	26.50	55.44	74	18.56	Harmonic
7713.6	36.69	PK	93	1.2	V	37.7	5.27	26.50	53.16	74	20.84	Harmonic
7713.6	36.09	PK	78	1.3	Н	37.7	5.27	26.50	52.56	74	21.44	Harmonic
3856.8	41.93	PK	35	1.5	Н	33.0	3.73	26.50	52.16	74	21.84	Harmonic
3856.8	41.38	PK	314	1.2	V	33.0	3.73	26.50	51.61	74	22.39	Harmonic

Note: For 30 MHz to 1 GHz, the spurious emissions are 20 dB below the limit or are on the system noise level.

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	Field Strength of Fundamental Emission (Average)							
	Peak Corrected	Ant.	Duty Cycle	Corrected	FCC 15	5.319		
Freq. (MHz)	Amplitude @3m (dBμV/m)	Polar (H/V)	Factor (dB)	Amplitude (dBμV/m)	Limit (dBµV/m)	Margin	Comment	
			Low Char	nnel				
3843.1	3843.1 50.25 H -27.52 22.73 54 31.27 Harmonic							
3843.1	52.00	V	-27.52	24.48	54	29.52	Harmonic	
5764.6	55.71	Н	-27.52	28.19	54	25.81	Harmonic	
5764.6	54.97	V	-27.52	27.45	54	26.55	Harmonic	
7686.3	52.37	Н	-27.52	24.85	54	29.15	Harmonic	
7686.3	52.29	V	-27.52	24.77	54	29.23	Harmonic	
			Middle Ch	annel				
3849.8	51.36	Н	-27.52	23.84	54	30.16	Harmonic	
3849.8	53.82	V	-27.52	26.30	54	27.70	Harmonic	
5774.9	55.27	Н	-27.52	27.75	54	26.25	Harmonic	
5774.9	55.86	V	-27.52	28.34	54	25.66	Harmonic	
7699.6	51.93	Н	-27.52	24.41	54	29.59	Harmonic	
7699.6	52.77	V	-27.52	25.25	54	28.75	Harmonic	
			High Cha	nnel			_	
3856.8	52.16	Н	-27.52	24.64	54	29.36	Harmonic	
3856.8	51.61	V	-27.52	24.09	54	29.91	Harmonic	
5785.2	55.44	Н	-27.52	27.92	54	26.08	Harmonic	
5785.2	57.17	V	-27.52	29.65	54	24.35	Harmonic	
7713.6	52.56	Н	-27.52	25.04	54	28.96	Harmonic	
7713.6	53.16	V	-27.52	25.64	54	28.36	Harmonic	

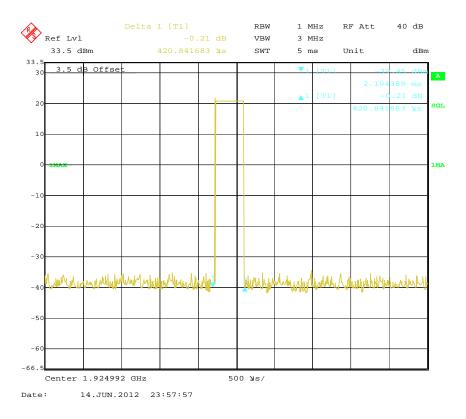
Report No.: RSZ120613001-00B

Note: Duty Cycle=Ton/Tp*100% Ton= $421\mu s$ =0.421ms Tp=10.01ms

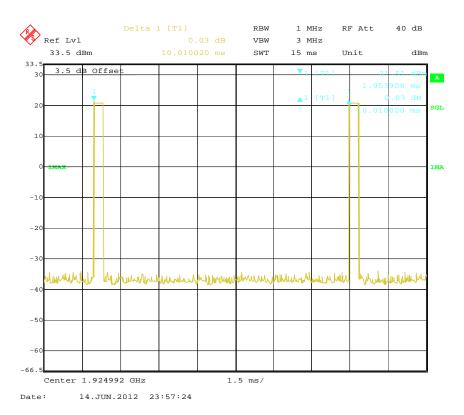
Duty Cycle= Ton/Tp =0.421/10.01 Duty cycle factor = 20lg (Duty Cycle) = -27.52 dB Ave.=PK+20* lg(Duty Cycle)

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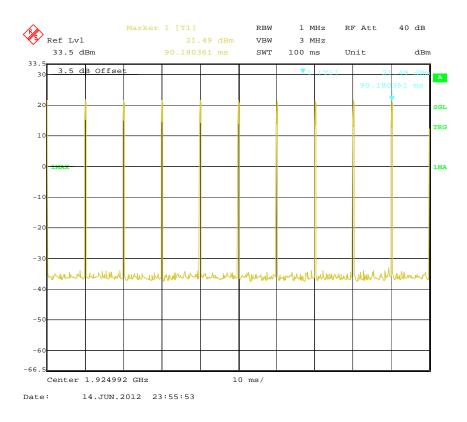
 T_{on} :



T_p:



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FCC §15.323 (f) - FREQUENCY STABILITY

Applicable Standard

Per §15.323(f), the frequency stability of the carrier frequency of the intentional radiator shall be maintained within ± 10 ppm over 1 hour or the interval between channel access monitoring, whichever is shorter. The frequency stability shall be maintained over a temperature variation of -20° C to $+50^{\circ}$ C at normal supply voltage, and over a variation in the primary supply voltage of 85 percent to 115 percent of the rated supply voltage at a temperature of 20 °C. For equipment that is capable only of operating from a battery, the frequency stability tests shall be performed using a new battery without any further requirement to vary supply voltage

Report No.: RSZ120613001-00B

Test Procedure

According to ANSI C63.17 sub-clause 6.2.1

This procedure should be carried out for each of the following test cases:

Temperature	Supply Voltage
20 °C	85-115% or new batteries
-20 °C	Normal
+50 °C	Normal

^a Use the lowest temperature at which the EUT is specified to operate if it is above -20 °C.

During test, the equipment shall be placed in the boxes and set the temperature to the specified requirement until the thermal balance has been reached.

Using the mean carrier frequency at 20°C and at nominal supply voltage as the reference, the mean carrier frequency shall be maintained within ± 10 ppm at the two extreme temperatures (or as declared by the manufacturer) and at normal temperature (typically 20°C) at the two extreme supply voltages. This test does not apply to a EUT that is capable only of operating from a battery.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ESPEC	Temperature & Humidity Chamber	EL-10KA	09107726	2011-11-24	2012-11-23
R & S	Digital Radio-Communication Tester	CMD60	829902/026	2012-03-16	2013-03-15

^{*} **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

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Test Data

Environmental Conditions

Temperature:	20 °C
Relative Humidity:	50 %
ATM Pressure:	100.0 kPa

The testing was performed by Jimmy Xiao on 2012-06-27.

Test Result: Compliance.

Test Mode: Transmitting

Temperature (℃)	Voltage (V _{DC})	Frequency (MHz)	Measured Frequency Offset (kHz)	Measured Frequency Offset (ppm)	Limit (ppm)
-20	3.7	1924.992	3.2	1.662	±10
20	3.7	1924.992	2.6	1.351	±10
50	3.7	1924.992	2.9	1.506	±10

Report No.: RSZ120613001-00B

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FCC §15.323 (c) (e) & §15.319(f) – SPECIFIC REQUIREMENTS FOR UPCS DEVICE

Report No.: RSZ120613001-00B

Automatic Discontinuation of Transmission, FCC Part 15.319(f)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. The provisions in this section are not intended to preclude transmission of control and signaling information or use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Test Procedure:

According to ANSI C63.17 Annex A

Test result:

Meet the requirement; please refer to the declaration provided by manufacturer.

Monitoring Time FCC 15.323 (c) (1)

Immediately prior to initiating transmission, devices must monitor the combined time and spectrum window in which they intend to transmit. For a period of at least 10 milliseconds for systems designed to use a 10 milliseconds or shorter frame period or at least 20 milliseconds for systems designed to use a 20 milliseconds frame period

Test procedure:

Measurement method according to ANSI C63.17 2006 clause 7.3.4

Test result:

EUT monitors the combined time and spectrum window prior to initiation of transmission. Test result is following

Interference (Refer to ANSI C63.17 clause 7.3.4)	Reaction of EUT	Results
1) Apply the interference on f1 at level TU+UM, and no interference on f2. Initiate transmission and verify the transmission on f2.	EUT transmits on f2	Pass
2) Apply the interference on f2 at level TU+UM, at the same time, no interference on f1. After about 20ms, initiate transmission and verify the transmission on f1.	EUT transmits on fl	Pass

Lower Monitoring Threshold Part15.323 (c) (2)

The monitoring threshold must not be more than 30 dB above the thermal noise power for a bandwidth equivalent to the emission bandwidth used by the device.

Test procedure:

Measurement method according to ANSI C63.17 2006 clause 7.3.1

Test result: Not Apply

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Maximum Transmit Period FCC Part15.323 (c) (3)

If no signal above the threshold level is detected, transmission may commence and continue with the same emission bandwidth in the monitored time and spectrum windows without further monitoring. However, occupation of the same combined time and spectrum windows by a device or group of cooperating devices continuously over a period of time longer than 8 hours is not permitted without repeating the access criteria.

Report No.: RSZ120613001-00B

Test procedure:

Measurement method according to ANSI C63.17 2006 clause 8.2.2

Test result:

Repetition of Access Criteria			Results
First	16200	28,800	Pass
Second	16200	28,800	Pass

System Acknowledgement, FCC Part15.323 (c) (4)

Once access to specific combined time and spectrum windows is obtained an acknowledgment from a system participant must be received by the initiating transmitter within one second or transmission must cease. Periodic acknowledgments must be received at least every 30 seconds or transmission must cease. Channels used exclusively for control and signaling information may transmit continuously for 30 seconds without receiving an acknowledgment, at which time the access criteria must be repeated.

Test procedure:

Measurement method according to ANSI C63.17 2006 clause 8.1.1, 8.2.1

Test result:

Test	Time taken (second)	Limit (second)	Result
Connection acknowledgement	0.1	1	Pass
Change of access criteria for control information	N/A	30	Pass
Transmission cease time	1.2	30	Pass
Pulse length	0.000421	0.01	Pass

Note: N/A=Not Applicable

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Least Interfered Channel (LIC) Selection, FCC Part15.323 (c) (5)

If access to spectrum is not available as determined by the above, and a minimum of 40 duplex system access channels are defined for the system, the time and spectrum windows with the lowest power level below a monitoring threshold of 50 dB above the thermal noise power determined for the emission bandwidth may be accessed.

Report No.: RSZ120613001-00B

Calculation of monitoring threshold limits for isochroous devices:

Lower threshold: $T_L = -174 + 10 \text{Log}_{10}\text{B} + M_u + P_{\text{MAX}} - P_{\text{EUT}} \text{ (dBm)}$

Upper threshold: $T_U = -174 + 10 Log_{10}B + M_u + P_{MAX} - P_{EUT}$ (dBm)

Where: B=Emission bandwidth (Hz)

 M_u =dB the threshold may exceed thermal noise (30 for T_L & 50 for T_U)

 $P_{MAX} = 5Log_{10}B-10(dBm)$

P_{EUT} =Transmitted power (dBm)

Limit:

Monitor Threshold	B (MHz)	M _U (dB)	P _{MAX} (dBm)	P _{EUT} (dBm)	Threshold (dBm)
T_{L}	1.641	30	21.07	20.00	-80.78
T_{U}	1.641	50	21.07	20.00	-60.78

The EUT must not transmit until the interference level is less than or equal to:

Measured Threshold Level $\leq T_U$ Where: $T_U = Upper$ threshold level

Test procedure:

Measurement method according to ANSI C63.17 clause 7.3.2, 7.3.3, 7.3.4

Test result:

Monitor threshold	Measured Threshold Level	Limit (dBm)	
Lower Threshold (dBm)	-80.78	-74.78	
Upper Threshold (dBm)	-60.78	-54.78	

Note: 1. The upper threshold is applicable as the EUT utilizes more than 40 duplex system channels

2. According to FCC Part15.323 (c) (5), the power measurement resolution for this comparison must be accurate to within 6 dB. For this upper threshold, its limit should be "Threshold+6(dB)"

Random waiting FCC 15.323(c) (6)

If the selected combined time and spectrum windows are unavailable, the device may either monitor and select different windows or seek to use the same window after waiting an amount of time, randomly chosen from a uniform random distribution between 10 and 150 milliseconds, commencing when the channel becomes available.

Test procedure:

Measurement method according to ANSI C63.17 2006 clause 8.1.3

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Test result:

The manufacturer declares that this provision is not utilized by the EUT.

Monitoring Bandwidth, FCC Part 15.323 (c) (7)

The monitoring system bandwidth must be equal to or greater than the emission bandwidth of the intended transmission and have a maximum reaction time less than 50xSQRT (1.25/emission bandwidth in MHz) microseconds for signals at the applicable threshold level but shall not be required to be less than 50 microseconds

Report No.: RSZ120613001-00B

Test procedure:

Measurement method according to ANSI C63.17 2006 clause 7.5

Test result:

Test Equation (μs)	B(bandwidth) (MHz)	Pulse width (µs)	Limit (µs)	Result
50 (1.25/B) ^{1/2}	1.641	43.64	50	Pass
35 (1.25/B) ^{1/2}	1.641	30.55	35	Pass

Monitoring Antenna, FCC Part15.323 (c) (8)

The monitoring system shall use the same antenna used for transmission, or an antenna that yields equivalent reception at that location.

Test procedure:

Measurement method according to ANSI C63.17 2006 paragraph 4

Test result:

The antenna of the EUT used for transmission is the same interior antenna that used for monitoring.

Monitoring threshold relation FCC 15.323(c) (9)

Devices that have a power output lower than the maximum permitted under the rules can increase their monitoring detection threshold by one decibel for each one decibel that the transmitter power is below the maximum permitted.

Test procedure:

Measurement method according to ANSI C63.17 2006 paragraph 4

Test result:

Not apply based on 15.323 (c) (5)

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Duplex Connections, FCC Part15.323 (c) (10)

An initiating device may attempt to establish a duplex connection by monitors both its intended transmit and receive time and spectrum windows. If both the intended transmit and receive time and spectrum windows meet the access criteria, then the initiating device can initiate a transmission in the intended transmit time and spectrum window. If the power detected by the responding device can be decoded as a duplex connection signal from the initiating device, then the responding device may immediately begin transmitting on the receive time and spectrum window monitored by the initiating device.

Report No.: RSZ120613001-00B

Test procedure:

Measurement method according to ANSI C63.17 clause 8.3

Test result:

The handset is the initiating device of the duplex connection.

1) EUTs that do NOT implement the Upper Threshold

Interference (Refer to ANSI C63.17 § 8.3.1)	Reaction of EUT	Results
b) Only a single carrier f1 for EUT TDMA systems.	EUT can transmit	Pass
c)d) All Tx and Rx windows block, except one for Rx window	No connection possible	Pass
e)f) All Tx and Rx windows block, except one for Tx window	No connection possible	Pass

2) EUTs that implements the Upper Threshold

Interference (Refer to ANSI C63.17 § 8.3.2)	Reaction of EUT	Results
b) Only a single carrier f1 for EUT TDMA systems.	EUT can transmit	Pass
c)d) All Tx windows with level TL+UM & Rx windows with level TL+UM+7dB, except one for Rx window & one for Rx window, which are not duplex.	Connected on the target Rx window and its duplex mate.	Pass
e)f) All Tx windows with level TL+UM+7dB & Rx windows with level TL+UM, except one for Rx window & one for Rx window, which are not duplex.	Connected on the target Tx window and its duplex mate.	Pass
g) All Tx & Rx windows with level TU+UM, except one for Rx window & one for Rx window, which are not duplex.	No connection possible	Pass

Alternative monitoring interval for co-located devices, FCC Part 15.323 (c) (11)

An initiating device that is prevented from monitoring during its intended transmit window due to monitoring system blocking from the transmissions of a co-located (within one meter) transmitter of the same system, may monitor the portions of the time and spectrum windows in which they intend to receive over a period of at least 10 milliseconds. The monitored time and spectrum window must total at least 50 percent of the 10 millisecond frame interval and the monitored spectrum must be within 1.25 MHz of the center frequency of channel(s) already occupied by that device or co-located co-operating devices. If the access criteria is met for the intended receive time and spectrum window under the above conditions, then transmission in the intended transmit window by the initiating device may commence.

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Test procedure:

Measurement method according to ANSI C63.17 2006 clause 8.4

Test result:

The manufacturer declares that this provision is not utilized by the EUT.

Fair Access, FCC Part 15.323 (c) (12)

The provisions of FCC Part15.323(c)(10) or (c)(11) shall not be used to extend the range of spectrum occupied over space or time for the purpose of denying fair access to spectrum to other devices.

Test result:

The manufacturer declares that this device does not use any mechanisms as provided by Part15.323 (c) (10) or (c) (11) to extend the range of spectrum occupied over space or time for the purpose of denying fail access to spectrum to other device.

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Frame Repetition Stability, Part15 .323 (e)

The frame period (a set of consecutive time slots in which the position of each time slot can be identified by reference to a synchronizing source) of an intentional radiator operating in these sub-bands shall be 20 milliseconds or 10 milliseconds/X where X is a positive whole number.

Test procedure:

Measurement method according to ANSI C63.17 2006 clause 6.2.2, 6.2.3

Test result:

Frame Repetition Stability:

Frame Repetition Stability (ppm)	Limit (ppm)	Result (Pass/Fail)
0.45	10	Pass

Frame Period and Jitter:

Max. Pos. Jitter	Max. neg. Jitter	Frame period	Limit Frame Period Jitter (ms) (µs)	
(us)	(us)	(ms)		
0.12	-0.11	10.00000	20 or10/X	25

Note: X is a positive whole number.

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PRODUCT SIMILARITY DECLARATION LETTER



Report No.: RSZ120613001-00B

Product Similarity Declaration Letter

To whom it may concern

We RTX Hong Kong Limited. hereby declare that our product Cordless DECT handset have four model numbers, they are G566d DECT Handset, G566s DECT Handset, RTX8122d DECT Handset and RTX8122s DECT Handset.

They are electrically identical, the differences between them are:

- **Brand Name**
- Color

	G566d	RTX8122d	G566s	RTX8122s
Brand Name	NEC	RTX	NEC	RTX
Color	Black	Black	Grey	Grey
Photo	1 (4 (4 vi 7 vo	2.ex 3.65 2.ex 3.65 2.ex 6.ex 2.ex 6		0:45 2
	NEC G566d	DECT Handset	NEC G566s	DECT Handset

Model G566d DECT Handset was tested by BACL.

Hong Kong, 16th Jul 2012

Signature:

Ted Chong

Engineering Manager, RTX Hong Kong Ltd.

RTX Hong Kong Ltd.

11/F., CAC Tower, 165 Hoi Bun Road,
Kwun Tong, Kowloon, Hong Kong
Tel : +852 2487 3718
Fax : +852 2480 6121
Web : www.rtx.hk E-mail: products@rtx.hk

Stroemmen 6, DK-9400 Nørresundby Tel : +45 9632 2300 Fax : +45 9632 2310