

FCC PART 15D

MEASUREMENT AND TEST REPORT

For

PORTA PHONE CO., INC.

145 Dean Knauss Drive, Narragansett, RI 02882, USA

FCC ID: B4HBPK1900

Report Type: Original Report	Product Type: DECT Transceiver
Test Engineer: Felix Li	<i>Felix Li</i>
Report Number: RSZ120106801-00A1	
Report Date: 2012-02-14	
Reviewed By: Alvin Huang EMC Engineer	<i>Alvin Huang</i>
Test Laboratory: Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F, the 3rd Phase of WanLi Industrial Building, 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 equipment 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 are marked with an asterisk "★" (Rev.2)

TABLE OF CONTENTS

GENERAL INFORMATION.....3

 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)3

 OBJECTIVE3

 RELATED SUBMITTAL(S)/GRANT(S).....3

 TEST METHODOLOGY3

 TEST FACILITY3

SYSTEM TEST CONFIGURATION.....5

 DESCRIPTION OF TEST CONFIGURATION5

 EQUIPMENT MODIFICATIONS5

 LOCAL SUPPORT EQUIPMENT LIST AND DETAILS5

 CONFIGURATION OF TEST SETUP5

 BLOCK DIAGRAM OF TEST SETUP6

SUMMARY OF TEST RESULTS7

FCC §15. 319 (I) & §2.1093 - RF EXPOSURE8

 APPLICABLE STANDARD8

FCC §15.317 & §15.203 - ANTENNA REQUIREMENT9

 APPLICABLE STANDARD9

 ANTENNA CONNECTOR CONSTRUCTION9

FCC §15.323 (A) - EMISSION BANDWIDTH.....10

 APPLICABLE STANDARD10

 TEST RESULTS10

FCC §15.319 (C) - PEAK TRANSMIT POWER.....11

 APPLICABLE STANDARD11

 TEST RESULTS11

FCC §15.319 (D) - POWER SPECTRAL DENSITY12

 APPLICABLE STANDARD12

 TEST RESULTS12

FCC §15.323 (D) - EMISSION INSIDE AND OUTSIDE THE SUB-BAND.....13

 APPLICABLE STANDARD13

 TEST RESULTS13

FCC §15.319 (G) - RADIATED SPURIOUS EMISSIONS.....14

 MEASUREMENT UNCERTAINTY14

 EUT SETUP14

 EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP15

 TEST EQUIPMENT LIST AND DETAILS.....15

 TEST PROCEDURE15

 CORRECTED AMPLITUDE & MARGIN CALCULATION16

 TEST RESULTS SUMMARY16

 TEST DATA16

FCC §15.323 (F) - FREQUENCY STABILITY21

 APPLICABLE STANDARD21

 TEST RESULTS21

FCC §15.323 (C)(E) & §15.319(F) – SPECIFIC REQUIREMENTS FOR UPCS DEVICE.....22

GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *PORTA PHONE CO., INC.*'s product, model: *BPK1000* (FCC ID: *B4HBPK1900*) or the "EUT" as referred to in this report is an earphone of *FULL DUPLEX WIRELESS COMMUNICATION SYSTEM*, Which measures approximately: 11.5 cm (L) x 8 cm (W) x 5 cm (H), input voltage: DC 3.7V battery.

** All measurement and test data in this report was gathered from production sample serial number: 1201001 (Assigned by BACL, Shenzhen). The EUT was received on 2012-01-06.*

Objective

This document is a test report 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 compliance with FCC Part 15, Subpart D, and section 15.203, 15.315, 15.317, 15.319 and 15.323 rules.

The current device has the exactly same RF module as the original approved device (model: ComStar S, ComStar Sx, ComStar D, ComStar Dx, FCC ID: B4HDST1900) except for the layout of digital portions are different, the modifications do not affect the RF characteristics. Based on the engineering justification, the radiated emissions have been investigated, the original test results can be represented for the current device.

Related Submittal(s)/Grant(s)

FCC ID: B4HDST1900.

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.

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.

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>

SYSTEM TEST CONFIGURATION

Description of Test Configuration

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

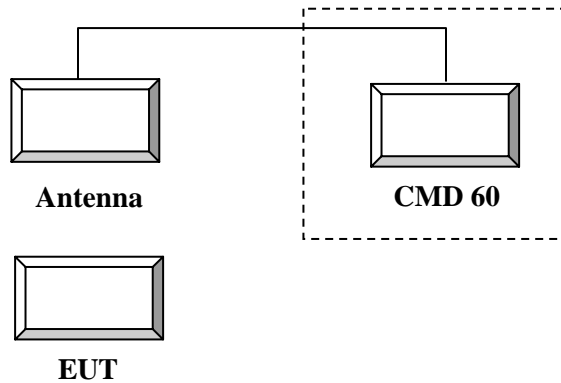
Equipment Modifications

The conducted items were tested under TBR6 mode.

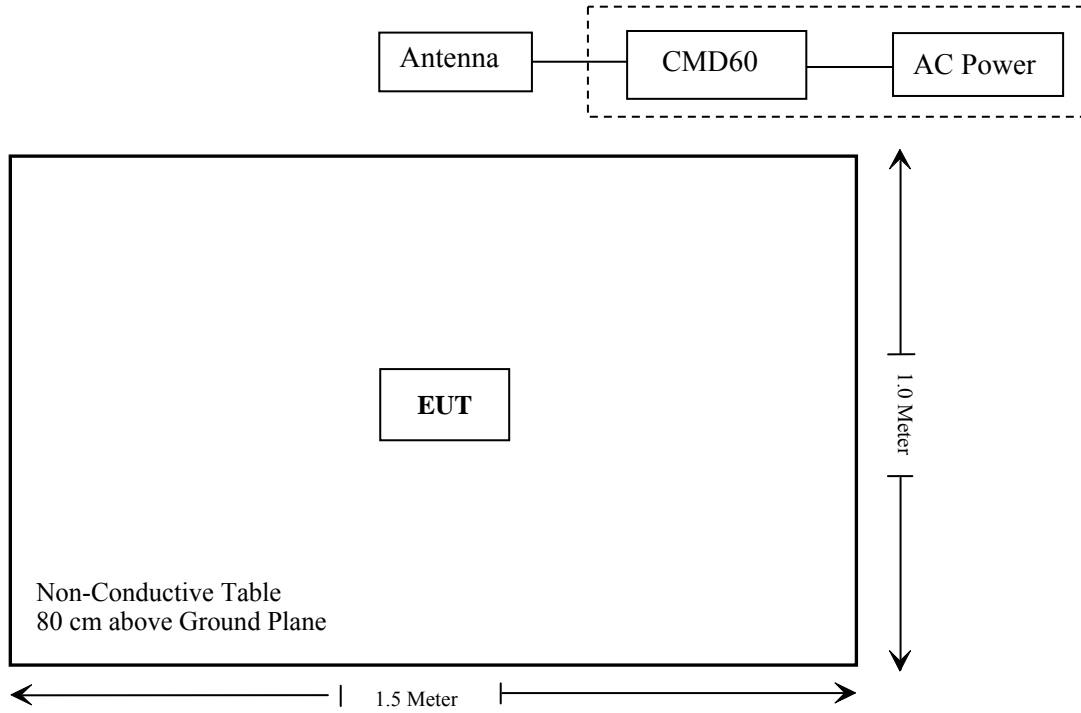
Local Support Equipment List and Details

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

Configuration of Test Setup



Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§ 15.319 (i), §2.1093	RF Exposure Info	Compliance
§ 15.317, § 15.203	Antenna Requirement	Compliance
§ 15.315, § 15.207	AC Line Conducted Emission	N/A*
§ 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	Compliance*
§ 15.323 (c)(e) § 15.319 (f)	Specific Requirements for UPCS	Compliance*

Note: 1. N/A*, EUT is battery operation.
2. Compliance*, please refer to FCC ID: B4HDST1900.

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), 2.1091 and 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 v041) c): Unless excluded by specific FCC test procedures, portable devices with output power is $\leq 60/f(\text{GHz})$ mW shall include SAR data for equipment approval.

RF Exposure Evaluation

Max peak output power: $18.63 \text{ dBm} = 72.95 \text{ mw}$

Antenna Gain: 2.0 dBi

EIRP = $18.63 + 2.0 = 20.63 \text{ dBm} = 115.61 \text{ mw}$

The time-based average power = $115.62 \text{ mw}/12 = 9.63 \text{ mW}$

SAR exclusion threshold: $60/f_{(\text{GHz})} = 60/1.921536 = 31.23 \text{ mW}$

The source-based average power of EUT is less than the threshold; the SAR evaluation can be exempted.

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.

Antenna Connector Construction

This product has two integrated antennas arrangement; please refer to the internal photos. The maximum gains is 2.0 dBi, fulfill the requirement of this section.

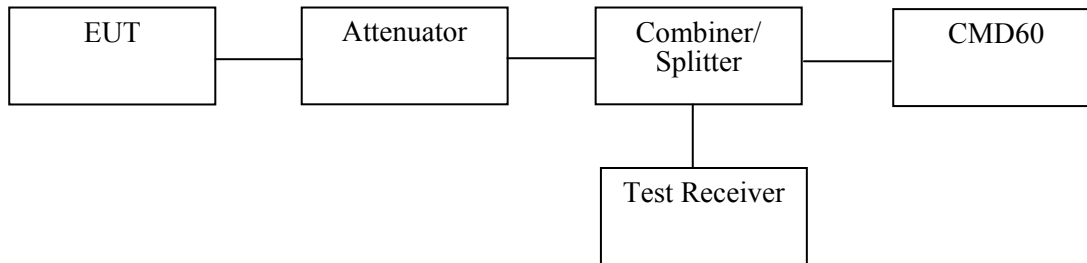
Result: Compliance.

FCC §15.323 (a) - EMISSION BANDWIDTH

Applicable Standard

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

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)].

Test Results

Please refer to FCC ID: B4HDST1900 which was granted on 2011-04-08.

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)].

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

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

$$PTP = 100 \mu W \times (EBW)^{1/2}$$

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

$$EBW = 1392000 \text{ Hz}$$

$$PTP = 100 \mu W \times (1392000)^{1/2} = 20.72 \text{ dBm}$$

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

Test Results

Please refer to FCC ID: B4HDST1900 which was granted on 2011-04-08.

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 3 mW in any 3 kHz bandwidth as measured with a spectrum analyzer having a resolution bandwidth of 3 kHz.

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

Test Results

Please refer to FCC ID: B4HDST1900 which was granted on 2011-04-08.

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;
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 Results

Please refer to FCC ID: B4HDST1900 which was granted on 2011-04-08.

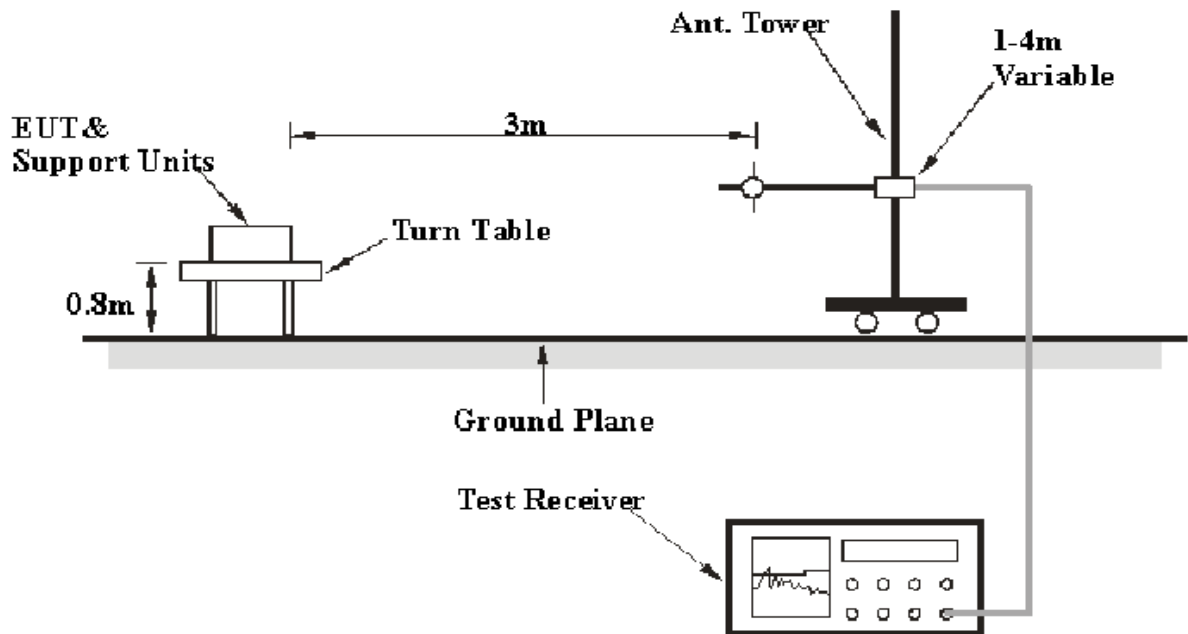
FCC §15.319 (g) - RADIATED SPURIOUS EMISSIONS

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 chamber B test site, using the setup accordance with the ANSI C63.17 - 2006. The specification used was the FCC 15.209 and FCC 15.319(g) limits.

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

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:

<i>Frequency Range</i>	<i>RBW</i>	<i>Video B/W</i>	
30 MHz – 1000 MHz	100 kHz	300 kHz	
1000 MHz – 20 GHz	1 MHz	3 MHz	PK
1000 MHz – 20 GHz	1 MHz	10 Hz	Ave.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	HP8447D	2944A09795	2011-08-02	2012-08-01
Rohde & Schwarz	EMI Test Receiver	ESCI	100035	2011-11-11	2012-11-10
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2011-03-11	2012-03-10
Mini-Circuits	Amplifier	ZVA-213+	T-E27H	2011-03-08	2012-03-07
Sunol Sciences	Horn Antenna	DRH-118	A052604	2011-05-05	2012-05-04
Rohde & Schwarz	Signal Analyzer	FSIQ 26	609358	2011-07-08	2012-07-07
Agilent	Spectrum Analyzer	8564E	3943A01781	2011-04-12	2012-04-11
the electro-Mechanics Co.	Horn Antenna	3116	9510-2270	2011-05-05	2012-05-04

* **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

For the radiated emissions test, the EUT was powered by battery.

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 7 dB means the emission is 7 dB below the maximum 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 15.209 and 15.319 (g), with the worst margin reading of:

1.64 dB at 9642.24 MHz in the Vertical polarization (High channel)

Test Data

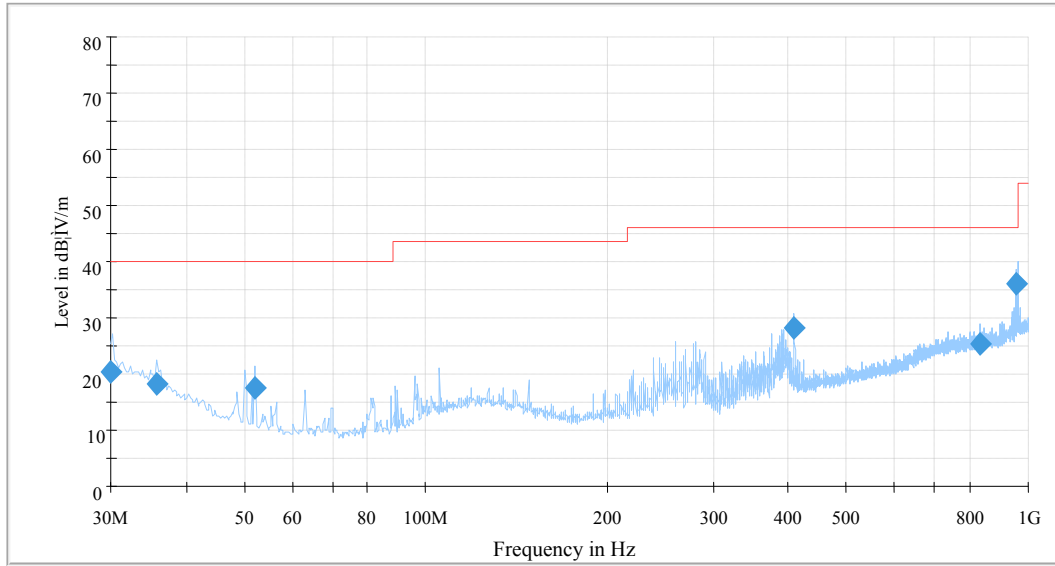
Environmental Conditions

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

The testing was performed by Felix Li on 2012-01-11

1) 30-1000 MHz:

Test Mode: Transmitting



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna Height (cm)	Antenna Polarity (H/V)	Turntable Position (deg)	Correction Factor (dB)	Limit (dBµV/m)	Margin (dB)
957.760500	35.9	223.0	H	351.0	0.8	46.0	10.1
409.593250	28.1	104.0	H	50.0	-9.8	46.0	17.9
30.006868	20.3	104.0	V	54.0	-5.4	40.0	19.7
831.175000	25.4	104.0	V	6.0	-1.4	46.0	20.6
35.763250	18.1	376.0	V	270.0	-9.7	40.0	21.9
52.076000	17.5	400.0	H	71.0	-17.6	40.0	22.5

2) Above 1GHz:

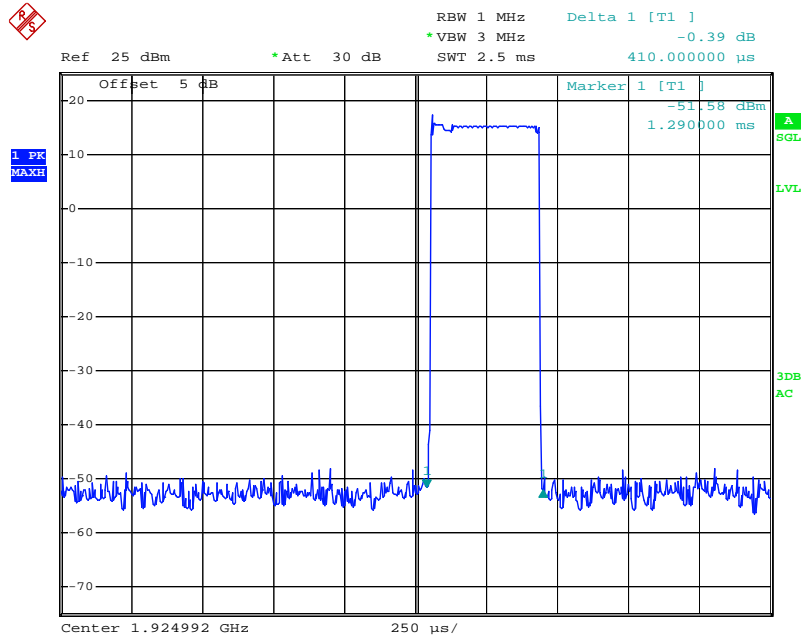
Freq. (MHz)	S.A. Reading (dBµV)	Detector PK/QP/Ave	Direction Degree	Test Antenna			Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBµV/m)	FCC Part 15.319/209/15.205		
				Height (m)	Polar (H/V)	Factor (dB/m)				Limit (dBµV/m)	Margin (dB)	Remarks
Low Channel												
11529.216	49.97	PK	175	1.6	H	38.9	6.69	26.28	69.28	74	4.72	Harmonic
11529.216	50.33	PK	120	1.7	V	38.2	6.69	26.28	68.94	74	5.06	Harmonic
3855.821	59.55	PK	190	1.5	V	31.6	3.73	26.87	68.01	74	5.99	Harmonic
9643.603	51.34	PK	190	1.6	V	37.1	5.98	26.42	68.00	74	6.00	Harmonic
9643.603	48.79	PK	116	1.2	H	37.5	5.98	26.42	65.85	74	8.15	Harmonic
3855.821	56.71	PK	213	1	H	31.8	3.73	26.87	65.37	74	8.63	Harmonic
7714.026	50.94	PK	120	1.8	V	35.6	5.27	26.64	65.17	74	8.83	Harmonic
5785.993	49.73	PK	87	1.6	V	33.4	4.57	26.68	61.02	74	12.98	Harmonic
5785.993	47.18	PK	110	1.4	H	33.9	4.57	26.68	58.97	74	15.03	Harmonic
7714.026	44.00	PK	90	1.4	H	36.1	5.27	26.64	58.73	74	15.27	Harmonic
Middle Channel												
3850.050	61.75	PK	173	1.7	V	31.6	3.73	26.87	70.21	74	3.79*	Harmonic
9624.96	52.52	PK	140	1.3	V	37.1	5.98	26.42	69.18	74	4.82	Harmonic
11549.942	49.39	PK	200	1	H	38.9	6.69	26.28	68.70	74	5.30	Harmonic
11549.942	49.55	PK	130	1.7	V	38.2	6.69	26.28	68.16	74	5.84	Harmonic
9624.96	48.35	PK	120	1.3	H	37.5	5.98	26.42	65.41	74	8.59	Harmonic
7699.968	49.57	PK	140	1.8	V	35.6	5.27	26.64	63.80	74	10.20	Harmonic
3850.050	55.04	PK	220	1.5	H	31.8	3.73	26.87	63.70	74	10.30	Harmonic
5774.976	49.28	PK	10	1	V	33.4	4.57	26.68	60.57	74	13.43	Harmonic
7699.968	45.71	PK	166	1.1	H	36.1	5.27	26.64	60.44	74	13.56	Harmonic
5774.976	47.10	PK	120	1.7	H	33.9	4.57	26.68	58.89	74	15.11	Harmonic
High Channel												
9642.24	52.90	PK	140	1.7	V	39.9	5.98	26.42	72.36	74	1.64*	Harmonic
9642.24	51.21	PK	120	1.3	H	41.1	5.98	26.42	71.87	74	2.13*	Harmonic
3856.896	61.88	PK	185	1.5	V	33.0	3.73	26.87	71.74	74	2.26*	Harmonic
11570.688	49.42	PK	200	1.5	H	41.0	6.69	26.28	70.83	74	3.17*	Harmonic
11570.688	49.54	PK	130	1.7	V	40.4	6.69	26.28	70.35	74	3.65*	Harmonic
3856.896	58.48	PK	275	2.1	H	33.9	3.73	26.87	69.24	74	4.76	Harmonic
5785.344	51.27	PK	162	1.6	V	36.2	4.57	26.68	65.36	74	8.64	Harmonic
7686.863	48.76	PK	140	1.5	V	37.7	5.27	26.64	65.09	74	8.91	Harmonic
7686.863	46.23	PK	161	1.6	H	39.0	5.27	26.64	63.86	74	10.14	Harmonic
5785.344	47.50	PK	120	1.0	H	37.4	4.57	26.68	62.79	74	11.21	Harmonic

*Within measurement uncertainty!

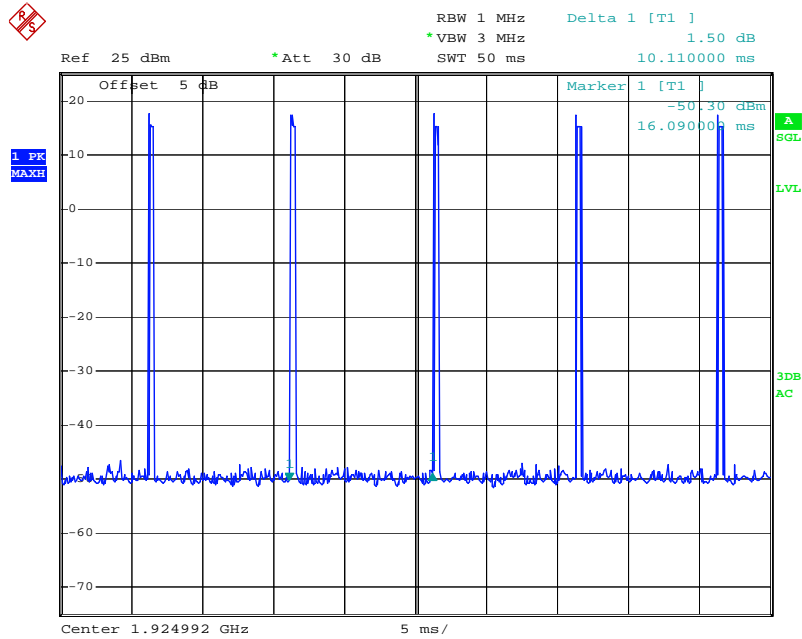
Field Strength of Radiated Emission (Average)							
Freq. (MHz)	Peak Cord. Amp. @ 3m (dBμV/m)	Antenna Polar (H/V)	Duty Cycle Factor (dB)	Cord. Amp. (dBμV/m)	Part 15.319/209/15.205		Comment
					Limit (dBμV/m)	Margin (dB)	
Low Channel							
11529.216	69.28	H	-27.83	41.45	54	12.55	Harmonic
11529.216	68.94	V	-27.83	41.11	54	12.89	Harmonic
3855.821	68.01	V	-27.83	40.18	54	13.82	Harmonic
9643.603	68.00	V	-27.83	40.17	54	13.83	Harmonic
9643.603	65.85	H	-27.83	38.02	54	15.98	Harmonic
3855.821	65.37	H	-27.83	37.54	54	16.46	Harmonic
7714.026	65.17	V	-27.83	37.34	54	16.66	Harmonic
5785.993	61.02	V	-27.83	33.19	54	20.81	Harmonic
5785.993	58.97	H	-27.83	31.14	54	22.86	Harmonic
7714.026	58.73	H	-27.83	30.90	54	23.10	Harmonic
Middle Channel							
3850.050	70.21	V	-27.83	42.38	54	11.62	Harmonic
9624.96	69.18	V	-27.83	41.35	54	12.65	Harmonic
11549.942	68.70	H	-27.83	40.87	54	13.13	Harmonic
11549.942	68.16	V	-27.83	40.33	54	13.67	Harmonic
9624.96	65.41	H	-27.83	37.58	54	16.42	Harmonic
7699.968	63.80	V	-27.83	35.97	54	18.03	Harmonic
3850.050	63.70	H	-27.83	35.87	54	18.13	Harmonic
5774.976	60.57	V	-27.83	32.74	54	21.26	Harmonic
7699.968	60.44	H	-27.83	32.61	54	21.39	Harmonic
5774.976	58.89	H	-27.83	31.06	54	22.94	Harmonic
High Channel							
11570.688	70.83	H	-27.83	43.00	54	8.31	Harmonic
11570.688	70.35	V	-27.83	42.52	54	9.13	Harmonic
9642.24	71.87	H	-27.83	44.04	54	12.67	Harmonic
7686.863	63.86	H	-27.83	36.03	54	14.92	Harmonic
5785.344	62.79	H	-27.83	34.96	54	15.87	Harmonic
9642.24	72.36	V	-27.83	44.53	54	16.25	Harmonic
7686.863	65.09	V	-27.83	37.26	54	16.89	Harmonic
3856.896	69.24	H	-27.83	41.41	54	21.57	Harmonic
5785.344	65.36	V	-27.83	37.53	54	21.74	Harmonic
3856.896	71.74	V	-27.83	43.91	54	25.97	Harmonic

Note: Duty Cycle=Ton/Tp*100%
 Ton=410μs =0.41ms, Tp=10.11ms
 Duty Cycle=4.06%
 Duty cycle factor = 20lg (Duty Cycle) = -27.83 dB
 Average = Peak + Duty Cycle Factor

T_{on}:



T_p:



FCC §15.323 (f) - FREQUENCY STABILITY

Applicable Standard

Per FCC §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° 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

Test Results

Please refer to FCC ID: B4HDST1900 which was granted on 2011-04-08.

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

Please refer to FCC ID: B4HDST1900 which was granted on 2011-04-08.

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