

TEST REPORT

Report Number: HK12010461-2

Application
for
Original Grant
of 47 CFR Part 15 Certification
New Family of RSS-210 Issue 8 Equipment Certification

1.9GHz Digital Modulation Cordless/Corded Phone with Caller ID, Digital Answering Machine and Bluetooth - Base Unit Bluetooth Portion

FCC ID: VLJ80-8620-00

IC: 4522A-80862000

Prepared and Checked by:	Approved by:
Signed on File	
Koo Wai Ip	Nip Ming Fung, Melvin
Senior Lead Engineer	Senior Supervisor
-	March 12, 2012

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GENERAL INFORMATION

Applicant Name:	Binatone Electronics International Ltd.
Applicant Address:	Floor 23A, 9 Des Voeux Road West,
	Sheung Wan, Hong Kong.
FCC Specification Standard:	FCC Part 15, October 1, 2010 Edition
FCC ID:	VLJ80-8620-00
FCC Model(s):	L702CBT, L703CBT, L704CBT,
	L705CBT, L70XCBT
IC Specification Standard:	RSS-210 Issue 8, December 2010
	RSS-Gen Issue 3, December 2010
	RSS-102 Issue 4, March 2010
	RSS-310 Issue 3, December 2010
IC:	4522A-80862000
IC Model(s):	L702CBT, L703CBT, L704CBT,
	L705CBT
Type of EUT:	Transceiver
Description of EUT:	1.9GHz Digital Modulation
	Cordless/Corded Phone with Caller ID,
	Digital Answering Machine and Bluetooth
	- Base Unit Bluetooth Portion
Serial Number:	N/A
Sample Receipt Date:	January 12, 2012
Date of Test:	Jan 16 - Feb 02, 2012
Report Date:	March 12, 2012
Environmental Conditions:	Temperature: +10 to 40°C
	Humidity: 10 to 90%

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EXHIBIT 1 TEST RESULTS SUMMARY & STATEMENT OF COMPLIANCE

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1.0 Test Results Summary & Statement of Compliance

1.1 Summary of Test Results

Test Items	FCC Part 15 Section	RSS-210/ RSS-Gen [#] / RSS-310^ Section	Results	Details see section
Antenna Requirement	15.203	7.1.2#	Pass	2.1
Radiated Emission Radiated Emission on the Bandedge	15.249(a), 209, & 109 15.249(d)	A2.9(a) A2.9(b)	Pass Pass	4.2 4.4
Radiated Emission in Restricted Bands	15.205	2.2	Pass	4.2
Radiated Emission from Receiver	N/A	2.3	Pass	4.3
AC Power Line Conducted Emission	15.207 & 15.107	7.2.4#	Pass	4.5
Radio Frequency Exposure Compliance	N/A	RSS-102	Pass	4.6

Note: Pursuant to FCC Part 15 Section 15.215(c), the 20dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over expected variations in temperature and supply voltage were considered.

1.2 Statement of Compliance

The equipment under test is found to be complying with the following standards:

FCC Part 15, October 1, 2010 Edition

RSS-210 Issue 8, December 2010

RSS-Gen Issue 3, December 2010

RSS-102 Issue 4, March 2010

RSS-310 Issue 3, December 2010

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EXHIBIT 2 GENERAL DESCRIPTION

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2.0 **General Description**

2.1 Product Description

The L702CBT is a 1.9GHz Digital Modulation Cordless/Corded Phone with Caller ID, Digital Answering Machine and Bluetooth - Base Unit Bluetooth Portion. Only Base Unit has Bluetooth feature, and it operates at frequency range of 2402MHz to 2480MHz with 79 channels. Base Unit is powered by an adaptor 100-120VAC to 6VDC, 450mA and 6VDC, 300mA. With Bluetooth and 1.9GHz wireless communications enabled, the Base Unit allows users to use a cordless handset to dial out or receive Bluetooth-equipped cellular phone calls via the cellular network. Only one cellular phone can be on a call at time.

The Bluetooth antenna used in base unit is integral, and the test sample is a prototype.

For FCC, The Model(s): L703CBT, L704CBT, L705CBT and L70XCBT are the same as the Model: L702CBT in electronics/electrical designs including software & firmware, PCB layout and construction design/physical design/enclosure. The only differences between these models are model number and package configuration to be sold for marketing purpose. Suffix (X) indicates different number of handsets and extra chargers.

For IC, The Model(s): L703CBT, L704CBT, L705CBT is/are the same as the Model: L702CBT in electronics/electrical designs including software & firmware, PCB layout and construction design/physical design/enclosure. The only differences between these models are model number and package configuration to be sold for marketing purpose.

The circuit description is saved with filename: descri.pdf.

Connection between the device and the telephone network is accomplished through the use of USOC RJ11C in the 2-wire loop calling central office line.

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2.2 Test Methodology

Both AC power line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2003). Preliminary radiated scans and all radiated measurements were performed in Open Area Test Sites. All Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Justification Section" of this Application.

2.3 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data and conducted data are at Roof Top and 2nd Floor respectively of Intertek Testing Services Hong Kong Ltd., which is located at Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. This test facility and site measurement data have been fully placed on file with the FCC and the Industry Canada.

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EXHIBIT 3 SYSTEM TEST CONFIGURATION

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3.0 **System Test Configuration**

3.1 Justification

For radiated emissions testing, the equipment under test (EUT) was setup to transmit continuously / receive continuously / normal mode to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables (if any) were manipulated to produce worst case emissions.

The Base Unit was powered by a 100-120VAC to 6VDC, 450mA and 6VDC, 300mA adaptor (Model: SSA-6W2 US 6045/6030, Brand: Sunstrong).

For the measurements, the EUT was attached to a plastic stand if necessary and placed on the wooden turntable. If the base unit attached to peripherals, they were connected and operational to simulate typical use. The handset was remotely located as far from the antenna and the base as possible to ensure full power transmission from the base. Else, the base was wired to transmit full power.

The signal was maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization were varied during the search for maximum signal level. The antenna height was varied from 1 to 4 meters. Radiated emissions were taken at three meters unless the signal level was too low for measurement at that distance. If necessary, a pre-amplifier was used and/or the test was conducted at a closer distance.

For any intentional radiator powered by AC power line, measurements of the radiated signal level of the fundamental frequency component of the emission was performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage.

For transmitter radiated measurement, the spectrum analyzer resolution bandwidth was 100 kHz for frequencies below 1000 MHz. The resolution bandwidth was 1 MHz for frequencies above 1000 MHz.

For receiver radiated measurement, the spectrum analyzer resolution bandwidth was 1MHz for measurement above 1GHz while 100kHz for measurement from 30MHz to 1GHz.

Radiated emission measurement for transmitter was performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. Radiated emission measurement for receiver was performed from 30MHz to he fifth harmonic of the highest frequency or 40GHz, whichever is lower.

Emission that are directly caused by digital circuits in the transmit path and transmitter portion were measured, and the limit are according to FCC Part 15 Section 15.209. Digital circuitry used to control additional functions other than the operation of the transmitter are subject to FCC Part 15 Section 15.109 Limits.

The DECT module was put into transmission mode when taking radiated emission data for determining worst-case spurious emission.

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3.1 Justification - Cont'd

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in section 4.2.3.

Determination of pulse desensitization was made according to *Hewlett Packard Application Note 150-2, Spectrum Analysis... Pulsed RF.* The effective period (Teff) was 625µs. With the resolution bandwidth 1MHz and spectrum analyzer IF bandwidth 3dB, the pulse desensitization factor was 0dB.

For AC line conducted emission test, the EUT along with its peripherals were placed on a 1.0m(W)x1.5m(L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50ohm coupling impedance for measuring instrument. The LISN housing, measuring instrument case, reference ground plane, and vertical ground plane were bounded together. The excess power cable between the EUT and the LISN was bundled.

All connecting cables of EUT and peripherals were manipulated to find the maximum emission.

All relevant operation modes have been tested, and the worst case data is included in this report.

3.2 EUT Exercising Software

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use.

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3.3 Details of EUT and Description of Accessories

Details of EUT:

An AC adaptor (provided with the unit) was used to power the device. Their description are listed below.

(1) Base Unit: An AC adaptor (100-120VAC to 6VDC, 450mA and 6VDC, 300mA, Model: SSA-6W2 US 6045/6030, Brand: Sunstrong) (Supplied by Client)

Description of Accessories:

- (1) Telephone Line Simulator, Model: TLS-5C-01, S/N: 151101 (Supplied by Intertek)
- (2) Cordless Handset, Model: L702CBT, FCC ID: VLJ80-8619-00 (Supplied by Client)
- (3) Nokia Mobile Phone, Model: 5300, FCC ID: PPIRM-146 (Supplied by Intertek)
- (4) SAMSUNG MP3 Player, Model: YP-E5F, DoC Product (Supplied by Intertek)
- (5) 1m USB 2.0 cable for MP3 Player, Brand: SAMSUNG (Supplied by Intertek)
- (6) 3m Telephone Line (Supplied by Intertek)
- (7) 1m Telephone Line with Termination (Supplied by Intertek)

3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

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EXHIBIT 4 TEST RESULTS

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4.0 Test Results

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

4.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

FS = RA + AF + CF - AG + PD + AV

where $FS = Field Strength in dB_{\mu}V/m$

RA = Receiver Amplitude (including preamplifier) in dBµV

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB AG = Amplifier Gain in dB

PD = Pulse Desensitization in dB

AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflects the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

Example

Assume a receiver reading of 62.0 dB $_{\mu}V$ is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dB $_{\mu}V/m$. This value in dB $_{\mu}V/m$ was converted to its corresponding level in $_{\mu}V/m$.

 $RA = 62.0 dB\mu V$

AF = 7.4 dB

CF = 1.6 dB

AG = 29 dB

PD = 0 dB

AV = -10 dB

 $FS = 62 + 7.4 + 1.6 - 29 + 0 + (-10) = 32 dB\mu V/m$

Level in $\mu V/m = Common Antilogarithm [(32 dB<math>\mu V/m)/20] = 39.8 \mu V/m$

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4.2 Radiated Emissions

4.2.1 Radiated Emission Configuration Photograph

Worst Case Radiated Emission at

Base Unit: 41.472 MHz

The worst case radiated emission configuration photographs are saved with filename: config photos.pdf

4.2.2 Radiated Emission Data

The data in tables 1-4 list the significant emission frequencies, the limit and the margin of compliance.

Judgement -

Base Unit: Passed by 6.6 dB margin

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4.2.3 Transmitter Duty Cycle Calculation

Based on the Bluetooth Specification Version 2.0 / 2.1 + EDR, the transmitter ON time for each timeslot of Bluetooth is $625\mu s$. DH5 has the maximum duty cycle, which consists of 5 continuous Tx slots and 1 Rx slot. Therefore one hopset take $(5+1) \times 625\mu s = 3.75ms$. For one period for a pseudo-random hopping through all 79 RF channels, it take: $79 \times 3.75ms = 296.25ms$.

The dwell time for DH5 is $5 \times 625 \mu s = 3.125 ms$.

Therefore,

Duty Cycle (DC) = Maximum On time in 100ms/100ms = 3.125ms/100ms = 0.03125

Average Factor (AF) of Bluetooth in dB = $20 \log_{10} (0.03125)$ = -30.1dB

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Mode: TX-Channel 00

Table 1, Base Unit (Bluetooth Portion)

Radiated Emission Data

			Pre-Amp	Antenna	Average	Calculated	Average	
Polari-	Frequency	Reading	Gain	Factor	Factor	at 3m	Limit at 3m	Margin
zation	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
V	2402.000	97.9	33	29.4	30.1	64.2	94.0	-29.8
Н	4804.000	55.0	33	34.9	30.1	26.8	54.0	-27.2
Н	7206.000	51.5	33	37.9	30.1	26.3	54.0	-27.7
Н	9608.000	49.8	33	40.4	30.1	27.1	54.0	-26.9
Н	12010.000	49.4	33	40.5	30.1	26.8	54.0	-27.2
Н	14412.000	49.2	33	40.0	30.1	26.1	54.0	-27.9

			Pre-				
			Amp	Antenna	Netat	Peak Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Peak	at 3m	Margin
zation	(MHz)	(dBuV)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
V	2402.000	97.9	33	29.4	94.3	114.0	-19.7
Н	4804.000	55.0	33	34.9	56.9	74.0	-17.1
Н	7206.000	51.5	33	37.9	56.4	74.0	-17.6
Н	9608.000	49.8	33	40.4	57.2	74.0	-16.8
Н	12010.000	49.4	33	40.5	56.9	74.0	-17.1
Н	14412.000	49.2	33	40.0	56.2	74.0	-17.8

NOTES: 1. Peak detector is used for the emission measurement.

- 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Horn antenna is used for the emission over 1000MHz.
- Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-210 Section 2.2.

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Mode: TX-Channel 39

Table 2, Base Unit (Bluetooth Portion)

Radiated Emission Data

			Pre-Amp	Antenna	Average	Calculated	Average	
Polari-	Frequency	Reading	Gain	Factor	Factor	at 3m	Limit at 3m	Margin
zation	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
V	2441.000	98.7	33	29.4	30.1	65.0	94.0	-29.0
Н	4882.000	56.5	33	34.9	30.1	28.3	54.0	-25.7
Н	7323.000	52.0	33	37.9	30.1	26.8	54.0	-27.2
Н	9764.000	50.0	33	40.4	30.1	27.3	54.0	-26.7
Н	12205.000	49.3	33	40.5	30.1	26.7	54.0	-27.3
Н	14646.000	51.0	33	38.4	30.1	26.3	54.0	-27.7

			Pre-				
			Amp	Antenna	Netat	Peak Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Peak	at 3m	Margin
zation	(MHz)	(dBuV)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
V	2441.000	98.7	33	29.4	95.1	114.0	-18.9
Н	4882.000	56.5	33	34.9	58.4	74.0	-15.6
Н	7323.000	52.0	33	37.9	56.9	74.0	-17.1
Н	9764.000	50.0	33	40.4	57.4	74.0	-16.6
Н	12205.000	49.3	33	40.5	56.8	74.0	-17.2
Н	14646.000	51.0	33	38.4	56.4	74.0	-17.6

NOTES: 1. Peak detector is used for the emission measurement.

- 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Horn antenna is used for the emission over 1000MHz.
- 5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-210 Section 2.2.

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Mode: TX-Channel 78

Table 3, Base Unit (Bluetooth Portion)

Radiated Emission Data

			Pre-Amp	Antenna	Average	Calculated	Average	
Polari-	Frequency	Reading	Gain	Factor	Factor	at 3m	Limit at 3m	Margin
zation	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
V	2480.000	98.2	33	29.4	30.1	64.5	94.0	-29.5
Н	4960.000	55.7	33	34.9	30.1	27.5	54.0	-26.5
Н	7440.000	52.1	33	37.9	30.1	26.9	54.0	-27.1
Н	9920.000	50.4	33	40.4	30.1	27.7	54.0	-26.3
Н	12400.000	49.4	33	40.5	30.1	26.8	54.0	-27.2
Н	14880.000	50.9	33	38.4	30.1	26.2	54.0	-27.8

			Pre-				
			Amp	Antenna	Netat	Peak Limit	
Polari-	Frequency	Reading	G a in	Factor	3m - Peak	at 3m	Margin
zation	(MHz)	(dBuV)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
V	2480.000	98.2	33	29.4	94.6	114.0	-19.4
Н	4960.000	55.7	33	34.9	57.6	74.0	-16.4
Н	7440.000	52.1	33	37.9	57.0	74.0	-17.0
Н	9920.000	50.4	33	40.4	57.8	74.0	-16.2
Н	12400.000	49.4	33	40.5	56.9	74.0	-17.1
Н	14880.000	50.9	33	38.4	56.3	74.0	-17.7

NOTES: 1. Peak detector is used for the emission measurement.

- 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Horn antenna is used for the emission over 1000MHz.
- Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-210 Section 2.2.

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Mode: Talk

Table 4, Base unit (Bluetooth Portion)

Radiated Emission Data

			Pre-	Antenna	Net	Lim it	
Polarization	Frequency (MHz)	Reading (dBµV)	amp (dB)	Factor (dB)	at 3m (dBµV/m)	at 3m (dBµV/m)	Margin (dB)
V	41.472	39.4	16	10.0	33.4	40.0	-6.6
V	55.296	38.0	16	11.0	33.0	40.0	-7.0
V	69.120	41.4	16	7.0	32.4	40.0	-7.6
V	82.964	40.4	16	7.0	31.4	40.0	-8.6
Н	124.416	32.8	16	14.0	30.8	43.5	-12.7
Н	165.865	30.4	16	17.0	31.4	43.5	-12.1

NOTES: 1. Peak detector is used for the emission measurement.

- 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-210 Section 2.2.

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4.3 Radiated Emissions from Receiver

4.3.1 Radiated Emission Configuration Photograph

Worst Case Radiated Emission at

Base Unit: 2439.500 MHz

The worst case radiated emission configuration photographs are saved with filename: config photos.pdf

4.3.2 Radiated Emission Data

The data in tables 5 list the significant emission frequencies, the limit and the margin of compliance.

Judgement -

Base Unit: Passed by 13.1 dB margin

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Mode: Receiving - Middle Channel

Table 5, Base Unit

Radiated Emissions Data

			Pre-	Antenna	Net	Limit	
	Frequency	Reading	amp	Factor	at 3m	at 3m	Margin
Polarization	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
V	2439.500	44.5	33	29.4	40.9	54.0	-13.1
V	4879.000	38.7	33	34.9	40.6	54.0	-13.4
V	7318.000	35.5	33	37.9	40.4	54.0	-13.6
V	9758.000	32.9	33	40.4	40.3	54.0	-13.7
V	12197.500	32.3	33	40.5	39.8	54.0	-14.2

NOTES:

- 1. Peak detector is used for the emission measurement.
- 2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Horn antenna is used for the emission over 1000MHz.

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4.4 Radiated Emission on the Bandedge

From the following plots, they show that the fundamental emissions are confined in the specified band (902MHz and 928MHz) / (2400MHz and 2483.5MHz) / (5725MHz and 5875MHz). In case of emissions up to two standard bandwidths away from the bandedge, the delta measurement technique is used for determining bandedge compliance. Standard bandwidth is the bandwidth specified by ANSI C63.4 (2003) for frequency being measured.

Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50 dB below the level of the fundamental or to the general radiated emission limits in FCC Part 15 Section 15.209 / Table 5 of RSS-Gen, whichever is the lesser attenuation, which meet the requirement of FCC Part 15 Section 15.249(d) / RSS-210 A2.9(b).

Radiated Emission on bandedge plots are saved with filename: be.pdf

Bandedge compliance is determined by applying marker-delta method, i.e.

Resultant Field Strength = Fundamental Emissions - Delta from the plot

Resultant field strength for the lowest and/or highest channel(s), with corresponding average values are calculated as follows:

				Resultant		
		Fundamental	Delta from	Field	Average	
		Emission	the Plot	Strength	Limit	Margin
	Channel	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
	Lowest	64.2	34.48	29.72	54	-24.28
Base	Highest	64.5	44.45	20.05	54	-33.95

					Resultant		
			Fundamental	Delta from	Field		
			Emission	the Plot	Strength	Peak Limit	Margin
		Channel	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Ī		Lowest	94.3	34.48	59.82	74	-14.18
	Base	Highest	94.6	44.45	50.15	74	-23.85

The resultant field strength meets the general radiated emission limit in FCC Part 15 Section 15.209 / Table 5 of RSS-Gen, which does not exceed 74dB μ V/m for peak limit and also 54dB μ V/m for average limit.

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4.5 AC Power Line Conducted Emission

- Not applicable EUT is only powered by battery for operation.
- [x] EUT connects to AC power line. Emission Data is listed in following pages.
- [] Base Unit connects to AC power line and has transmission. Handset connects to AC power line but has no transmission. Emission Data of Base Unit is listed in following pages.

4.5.1 AC Power Line Conducted Emission Configuration Photograph

Worst Case Line-Conducted Configuration at

6.6075 MHz

The worst case line conducted configuration photographs are saved with filename: config photos.pdf

4.5.2 AC Power Line Conducted Emission Data

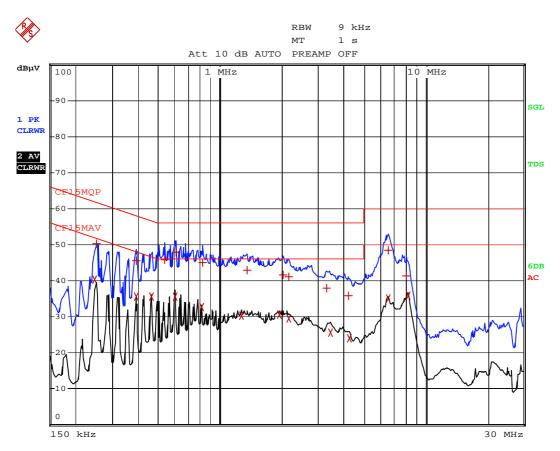
The plot(s) and data in the following pages list the significant emission frequencies, the limit and the margin of compliance.

Passed by 11.57 dB margin compare with guasi-peak limit

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Model No.: L702CBT

Worst Case: Talk (DECT + Bluetooth) + USB charging



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Model No.: L702CBT

Worst Case: Talk (DECT + Bluetooth) + USB charging

		EDIT	PEAK	LIST	(Final	Measure	ment	Result	s)
Tra	ce1:	(CF15M	QΡ					
Trace2:		(CF15M	AV					
Tra	ce3:								
	TRACE		F	REQUE	NCY	LEVEL d	lΒμV		DELTA LIMIT dB
2	CISPR Av	verage	6.585	MHz		34.92	N	gnd	-15.08
1	Quasi Pe	eak	6.607	5 MHz		48.42	N	gnd	-11.57
1	Quasi Pe	eak	8.025	MHz		41.33	L1	gnd	-18.67
2	CISPR Av	erage:	8.209	5 MHz		35.77	L1	gnd	-14.22

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4.6 Radio Frequency Exposure Compliance

The Routine RF Exposure Evaluation, Routine SAR Evaluation and Declaration of RF Exposure Compliance are saved with filename: RF exposure.pdf

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EXHIBIT 5 EQUIPMENT LIST

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5.0 **Equipment List**

1) Radiated Emissions Test

Equipment	EMI Test Receiver	Log Periodic Antenna	Spectrum Analyzer	
Registration No.	EW-2251	EW-0446	EW-2188	
Manufacturer	R&S	EMCO	AGILENTTECH	
Model No.	ESCI	3146	E4407B	
Calibration Date	May. 06, 2011	Oct. 31, 2011	Sep. 26, 2011	
Calibration Due Date	May. 06, 2012	Apr. 30, 2013	Sep. 26, 2012	

Equipment	Double Ridged Guide	Spectrum Analyzer	Biconical Antenna
	Antenna		
	(1GHz - 18GHz)		
Registration No.	EW-1133	EW-2188	EW-0571
Manufacturer	EMCO	AGILENTTECH	EMCO
Model No.	3115	E4407B	3104C
Calibration Date	Mar. 02, 2011	Sep. 26, 2011	Sep. 28, 2010
Calibration Due Date	Sep. 02, 2012	Sep. 26, 2012	Mar. 28, 2012

2) Conducted Emissions Test

Equipment	EMI Test Receiver	Artificial Mains	Pulse Limiter
Registration No.	EW-2251	EW-0192	EW-0698
Manufacturer	R&S	R&S	R&S
Model No.	ESCI	ESH3-Z5	ESH3-Z2
Calibration Date	May. 06, 2011	Nov. 30, 2010	Mar. 11, 2011
Calibration Due Date	May. 06, 2012	Feb. 29, 2012	Mar. 11, 2012

END OF TEST REPORT

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