

# **RTX Consumer Products Hong Kong Ltd.**

Application For Permissive Change Class II

Unlicensed Personal Communication Service Devices (Handset)

# FCC ID: T7HCT8010

Test Report Number: HK08061117-1

Issue Date: September 27, 2008

TL/ ac

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# MEASUREMENT/TECHNICAL REPORT

## RTX Consumer Products Hong Kong Ltd. - Model: 420d, RTX8016

## FCC ID: T7HCT8010

This report concerns (check one:)	Original Grant	_ Class II Change <u>X</u>
Equipment Type : <u>PUE - Part 15 U</u>	Inlicensed PCS po	ortable Tx held to ear
Deferred grant requested per 47 CFF	R 0.457(d)(1)(ii)?	Yes NoX
		If yes, defer until :
		Date
Company Name agrees to notify the	Commission by:	
		Date
of the intended date of announceme issued on that date. Transition Rules Request per 15.37?	·	s NoX_
If no, assumed Part 15, Subpart D Service Device - the new 47 CFR [09	D for Unlicensed	Personal Communication
Report prepared by:	Leung Wai Le	ung, Tommy
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# List of Attached Files

Exhibit Type	File Description	Filename
Test Report	Test Report	report.pdf
<b>Operational Description</b>	Technical Description	descri.pdf
Cover Letter	Purpose of Application	product change.pdf
Test Report	Emission Bandwidth and Test Frequency Plots	26bw.pdf
Test Report	Peak Transmit Power Plots	peaktp.pdf
Test Report	Power Spectral Density Plots	psd.pdf
Test Report	Unwanted Emission Inside Sub-Band Plots	inband.pdf
Test Setup Photos	Radiated Emission Test Configuration	config photos.pdf
Test Setup Photos	AC Lines Conducted Emission Test Configuration	coming photos.pdi
Test Report	AC Lines Conducted Emission Data	conduct.pdf
RF Exposure Info	SAR Evaluation Report	SAR report 1 of 2.pdf SAR report 2 of 2.pdf
External Photos	External Photo	external photos.pdf
Internal Photos	Internal Photo	internal photos.pdf
ID Label/Location Info	Label Artwork and Location	label.pdf
ID Label/Location Info	Label Location Justification	justification.pdf
Block Diagrams	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
User Manual	User Manual	manual.pdf
Cover Letter	Letter of Agency	letter of agency.pdf
Cover Letter	Confidentiality Request	request.pdf

# EXHIBIT 1 SUMMARY OF TEST RESULTS

## 1.0 Summary of Test Results

## RTX Consumer Products Hong Kong Ltd. - Model: 420d, RTX8016

Technical Requirements				
Test Items	FCC Part 15 Section	Test Procedure ANSI C63.17 / ANSI C63.4	Results	Details see section
Emission Bandwidth	15.323(a)	6.1.3	Pass	4.1
Peak Transmit Power	15.319(c)	6.1.2	Pass	4.2
Power Spectral Density	15.319(d)	6.1.5	Pass	4.3
Unwanted Emission Inside the Sub- Band	15.323(d)	6.1.6.1	Pass	4.4
Emissions Outside the Sub-Band	15.323(d)	6.1.6.2	Pass	4.5
AC Power Lines Conducted Emissions from Transmitter Portion of EUT	15.315	7 *	Pass	4.6
Radio Frequency Radiation Exposure	15.319(i)		Pass	4.7

# FCC ID: T7HCT8010

## Test Engineer:

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Ken Sit Assistant Manager

Date: September 27, 2008

Approved By:

Leung Wai Leung, Tommy Senior Manager

Date: September 27, 2008

# EXHIBIT 2 GENERAL DESCRIPTION

## 2.0 General Description

#### 2.1 Product Description

The 420d is a 1.9GHz Digital Modulation Cordless Handset with Caller ID - Handset. It operates at frequency range of 1921.536MHz to 1928.448MHz with 5 channels (1921.536MHz, 1923.264MHz, 1924.992MHz, 1926.720MHz and 1928.448MHz). The handset is powered by a "Li-ion" type rechargeable battery (3.7V 650mAh).

The antenna used in handset is integral, and the test sample is a prototype.

The Model: RTX8016 is the same as the Model: 420d in hardware aspect. The difference in model number serves as marketing strategy.

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

#### 2.2 Purpose of Application

The purpose of change is saved as filename: product change.pdf

Antenna, PCB layout, and LBT algorithm are the same as the originally granted Model: CT8010 DECT Handset - INT.

For optimization of RF performance and spurious emission level, component values for DECT 6.0 module are changed, but there is no change to the basic frequency determining and stabilizing circuitry (including clock or data rates), frequency multiplication stages, basic modulator circuit and maximum output power.

Vibrator feature and SIM card holder are added and removed respectively.

EEPROM size, flash size, SRAM size, and the front enclosure are changed. Software MMI of Model: 420d is also changed for new software features, which does not affect any RF protocol and power control.

A verification report has been prepared for the digital portion. The device is also subject to Part 68 Registration.

## 2.3 Test Methodology

The radiated emission measurements for unintentional radiator (if any) and AC power lineconducted emission measurements were performed according to the test procedures specified in ANSI C63.4 (2003). The radiated emission measurements for intentional radiator contained in UPCS device, and antenna conducted measurements were performed according to the test procedures specified in Revision Draft ANSI C63.17 (2006). All radiated measurements were performed in Open Area Test Sites. Preliminary scans were performed in the Open Area Test Sites only to determine worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Justification Section" of this Application. All other measurements were made in accordance with the procedures in 47 CFR Part 2.

## 2.4 Test Facility

The open area test site facility used to collect the emission data 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.

# EXHIBIT 3 SYSTEM TEST CONFIGURATION

## 3.0 System Test Configuration

#### 3.1 Justification

For emissions testing, the equipment under test (EUT) was setup to transmit continuously in burst mode with pseudo-random data 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 handset (if any) was powered by a fully charged battery.

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 (as typical as possible).

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. Detector function was in peak mode. 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.

The spectrum analyzer resolution bandwidth was approximately 1% of the EUT emission bandwidth, unless otherwise specified.

Radiated emission measurements were 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.

## 3.2 Conducted Emission Test Configuration

The setup and equipment setting were made in accordance with ANSI C63.17. The antenna of EUT transmitter was replaced by a coaxial cable. The impendence matching of connection, cable loss and external RF attenuator are taken into account. The EUT was arranged to communicate via a fixed carrier frequency between its transmitter and a companion device. The transmission was configured in burst mode with pseudo-random data as typical as normal operation.

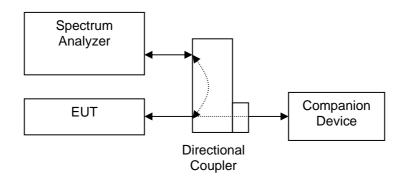


Figure 3.2.1

## 3.3 EUT Exercising Software

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

3.4 Details of EUT and Description of Peripherals

## Details of EUT:

An AC adaptor and/or a battery (provided with the unit) were used to power the device. Their description are listed below.

(1) Handset: A "Li-ion" type rechargeable battery (3.7V 650mAh)

## Description of Peripherals:

- (1) Telephone Headset (Supplied by Intertek)
- (2) Base Unit, Model: MBU 400, FCC ID: T7HCT8015 (Supplied by Client)
- Base Unit: A Switching AC Adaptor (100-240VAC to 12VDC 300mA, Model: SSW-1187US) (Supplied by Client)
- (4) Extra Charger: A Switching AC adaptor (100-240VAC to 5VDC 350mA, Model: SSW-1444US) (Supplied by Client)
- (5) Telecommunication cable with RJ11C connectors (1m, unshielded), terminated (Supplied by Intertek)
- (6) CAT5 LAN unshielded cable with 2 meter long (Supplied by Intertek)

### 3.5 Measurement Uncertainty

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

#### 3.6 Equipment Modification

Any modifications installed previous to testing by RTX Consumer Products Hong Kong Ltd. will be incorporated in each production model sold/leased in the United States.

No modifications were installed by Commercial & Electrical Division, Intertek Testing Services Hong Kong Ltd.

All the items listed under section 3.0 of this report are confirmed by:

Confirmed by:

Leung Wai Leung, Tommy Senior Manager Intertek Testing Services Hong Kong Ltd. Agent for RTX Consumer Products Hong Kong Ltd.

\_\_\_\_Signature

September 27, 2008 Date

# EXHIBIT 4 MEASUREMENT RESULTS

#### 4.0 Measurement Results

4.1 Emission Bandwidth, FCC Rule 15.323(a):

Operation shall be contained within the 1920 - 1930 MHz band. The emission bandwidth (*B*) shall be less than 2.5 MHz and greater than 50 kHz.

Measurements are made in accordance with ANSI C63.17 sub-clause 6.1.3. Test setup is shown in section 3.2 Figure 3.2.1.

Test Results:

I. Traffic Carrier

Channel	Channel Frequency (MHz)	Measuring Signal Level	Measured Emission Bandwidth (MHz)	Results
Lowest	1921.536	26 dB down	1.48	Pass
Highest	1928.448	26 dB down	1.49	Pass

Please refer to the attached plots for more details:

Plot 1A: Lowest Channel 26dB Emission Bandwidth (Traffic Carrier) Plot 1D: Highest Channel 26dB Emission Bandwidth (Traffic Carrier)

The plots of emission bandwidth and test frequency are saved as filename: 26bw.pdf

4.2 Peak Transmit Power, FCC Rule 15.319(c):

The peak transmit power ( $P_{EUT}$ ) shall not exceed 100µW multiplied by the square root of the emission bandwidth (*B*) in Hz or 5 log<sub>10</sub> *B* – 10 dBm. The peak transmit power shall be reduced by the amount in dB that the maximum directional gain of the antenna exceeds 3 dBi.

Measurements are made in accordance with ANSI C63.17 sub-clause 6.1.2. Test setup is shown in section 3.2 Figure 3.2.1. The cable loss and/or external attenuation are included in OFFSET function of spectrum analyzer.

Calculation of Peak Transmit Power Limit ( $P_{max}$ ):

 $\begin{bmatrix} \times \end{bmatrix} \qquad P_{max} = 5 \log_{10} B - 10 \text{ dBm} \qquad \text{when } G_A \le 3 \text{dBi} \\ P_{max} = 5 \log_{10} B - 10 \text{ dBm} - (G_A - 3 \text{dBi}) \qquad \text{when } G_A > 3 \text{dBi} \\ \text{Where} \qquad G_A \qquad = \text{EUT Antenna Gain: } \underline{0} \text{ dBi} \\ B \qquad = \text{Measured Emission Bandwidth: } (26 \text{dB down BW}) \text{ in Hz} \\ \end{array}$ 

Test Results:

I. Traffic Carrier

Channel	Channel Frequency (MHz)	Measured Peak Transmit Power (dBm)	Limit (dBm)	Results
Lowest	1921.536	20.60	20.85	Pass
Highest	1928.448	20.48	20.87	Pass

Please refer to the attached plots for more details:

Plot 2A: Lowest Channel Peak Transmit Power (Traffic Carrier) Plot 2B: Highest Channel Peak Transmit Power (Traffic Carrier)

The plots of peak transmit power are saved as filename: peaktp.pdf

4.3 Power Spectral Density, FCC Rule 15.319(d):

Power spectral density shall not exceed 3 mW (4.8dBm) in any 3 kHz bandwidth as measured with a spectrum analyzer having a resolution bandwidth of 3 kHz.

Measurements are made in accordance with ANSI C63.17 sub-clause 6.1.5. Test setup is shown in section 3.2 Figure 3.2.1.

Test Results:

I. Traffic Carrier

Channel	Channel Frequency (MHz)	Measured Power Spectral Density (dBm/3kHz)	Limit (dBm/3 kHz)	Results
Lowest	1921.536	-6.5	4.8	Pass
Highest	1928.448	-12.4	4.8	Pass

Please refer to the attached plots for more details:

Plot 3A: Lowest Channel Power Spectral Density (Traffic Carrier) Plot 3B: Highest Channel Power Spectral Density (Traffic Carrier)

The plots of the power spectral density are saved as filename: psd.pdf

4.4 Unwanted Emission Inside the Sub-Band, FCC Rule 15.323(d):

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

- 1. In the bands between 1*B* and 2*B* measured from the center of the emission bandwidth, emission shall be at least 30 dB below the permitted peak transmit power.
- 2. In the bands between 2*B* and 3*B* measured from the center of the emission bandwidth, emission shall be at least 50 dB below the permitted peak transmit power.
- 3. In the bands between 3*B* and the band edge, emission shall be at least 60 dB below the permitted peak transmit power.

Where B = emission bandwidth in Hz

Measurements are made in accordance with ANSI C63.17 sub-clause 6.1.6.1. Test setup is shown in section 3.2 Figure 3.2.1.

Test Results:

I. Traffic Carrier

Channel	Channel Frequency (MHz)	Results
Lowest	1921.536 Pass	
Highest	1928.448	Pass

Please refer to the attached plots for more details:

Plot 4A: Lowest Channel Unwanted Emission Inside the Sub-Band (Traffic Carrier) Plot 4B: Highest Channel Unwanted Emission Inside the Sub-Band (Traffic Carrier)

The plots of the unwanted emission inside the sub-band are saved as filename: inband.pdf

4.5 Emissions Outside the Sub-Band, FCC Rule 15.323(d):

Emissions outside the sub-band shall be attenuated below a reference power of 112 mW (20.5 dBm) as follows:

- 1. 30 dB between the band edge and 1.25 MHz above or below the band;
- 2. 50 dB between 1.25 and 2.5 MHz above or below the band; and
- 3. 60 dB at 2.5 MHz or greater above or below the band, or shall meet the requirement of FCC Rule 15.319(g) which shall not exceed the limits of FCC Rule 15.209.

Example: Calculation of Limit for emissions between the band edge and 1.25 MHz (1920.000 – 1918.750 MHz)

The emissions shall not exceed the Limit: 20.5 dBm - 30 dB = -9.5 dBm

Measurements are made in accordance with ANSI C63.17 sub-clause 6.1.6.2. As EUT has non-detachable antenna(s), radiated emissions test method is used for out-of-band emissions tests. Emissions that are directly caused by digital circuits in the transmit path and transmitter portion are measured. Test setup and procedures are described in section 3.2 Figure 3.2.1.

Channel	Carrier Frequency (MHz)	Measured Band (MHz)	Limit (dBm)	Results
	Lowest 1921,536	1920.000 - 1918.750	-9.5	Pass
Lowest		1918.750 - 1917.500	-29.5	Pass
		0.009 - 1917.500 & 1932.500 - 19300.000	-39.5	Pass
	ghest 1928.448	1930.000 - 1931.250	-9.5	Pass
Highest		1931.250 - 1932.500	-29.5	Pass
		0.009 - 1917.500 & 1932.500 - 19300.000	-39.5	Pass

Test Results:

Please refer to the section 4.5.1 to 4.5.4 for more details.

Company: RTX Consumer Products Hong Kong Ltd. Date of Test: June 13-September 25, 2008 Model: 420d Mode: Transmission

4.5.1 Radiated Emissions Configuration Photographs:

# Worst Case Radiated Emission at

## 3843.072 MHz

The worst case radiated emission configuration photographs are saved as filename: cofing photos.pdf

Company: RTX Consumer Products Hong Kong Ltd. Date of Test: June 13-September 25, 2008 Model: 420d Mode: Transmission

4.5.2 Radiated Emissions Data:

Data are 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. All measurements were performed with peak detection unless otherwise specified.

The data in tables 1-3 list the significant emission frequencies, the limit and the margin of compliance.

Judgement: Passed by 5.8 dB margin

TEST ENGINEER:

Kensit

Signature

Ken Sit, Assistant Manager Typed/Printed Name

September 27, 2008 Date

Company: RTX Consumer Products Hong Kong Ltd. Date of Test: June 13-September 25, 2008 Model: 420d Mode: Transmission

#### Table 1

### Radiated Emissions Data Pursuant To FCC Part 15 Section 15.323 (d) Emissions Requirements

Lowest Channel:

Polarization	Frequency	Measured	Power	Margin
	(MHz)	Power	Limit	(dB)
		(dBm)	(dBm)	
Н	1919.300	-42.6	-9.5	-33.1
Н	1918.560	-51.8	-29.5	-22.3
Н	1917.306	-53.9	-39.5	-14.4
V	3843.072	-45.3	-39.5	-5.8
Н	5764.608	-46.7	-39.5	-7.2
Н	7686.144	-49.9	-39.5	-10.4
Н	9607.680	-52.0	-39.5	-12.5
Н	11529.216	-52.4	-39.5	-12.9

#### NOTES:

- 1. Peak detector is used for the emission measurement.
- 2. All measurements were made at 3 meters.
- 3. Negative value in the margin column shows emission below limit.

Company: RTX Consumer Products Hong Kong Ltd. Date of Test: June 13-September 25, 2008 Model: 420d Mode: Transmission

## Table 2

### Radiated Emissions Data Pursuant To FCC Part 15 Section 15.323 (d) Emissions Requirements

Highest Channel:

Polarization	Frequency	Measured	Power	Margin
	(MHz)	Power	Limit	(dB)
		(dBm)	(dBm)	
Н	1930.577	-42.4	-9.5	-32.9
Н	1931.707	-51.6	-29.5	-22.1
Н	1932.963	-53.4	-39.5	-13.9
V	3856.896	-45.9	-39.5	-6.4
Н	5785.344	-46.6	-39.5	-7.1
Н	7713.792	-49.8	-39.5	-10.3
Н	9642.240	-51.4	-39.5	-11.9
Н	11570.688	-52.9	-39.5	-13.4

#### NOTES:

- 1. Peak detector is used for the emission measurement.
- 2. All measurements were made at 3 meters.
- 3. Negative value in the margin column shows emission below limit.

## Table 3

## Radiated Emissions Data Pursuant To FCC Part 15 Section 15.323 (d) Emissions Requirements

Polarization	Frequency	Measured	Power	Margin
	(MHz)	Power	Limit	(dB)
		(dBm)	(dBm)	
V	33.765	-67.9	-39.5	-28.4
V	47.228	-67.5	-39.5	-28.0
V	58.874	-66.4	-39.5	-26.9
V	64.545	-66.6	-39.5	-27.1
V	70.716	-67.0	-39.5	-27.5
V	136.257	-67.4	-39.5	-27.9

## NOTES:

- 1. Peak detector is used for the emission measurement.
- 2. All measurements were made at 3 meters.
- 3. Negative value in the margin column shows emission below limit.

4.5.3 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 dB $\mu$ V 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 reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

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

## 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 29.0 dB is subtracted. The pulse desensitization factor of the spectrum analyzer is 0.0 dB, and the resultant average factor is - 10.0 dB. The net field strength for comparison to the appropriate emission limit is 32.0 dB $\mu$ V/m. This value in dB $\mu$ V/m is converted to its corresponding level in  $\mu$ V/m.

 $RA = 62.0 \text{ dB}\mu\text{V}$  AF = 7.4 dB CF = 1.6 dB AG = 29.0 dB PD = 0.0 dBAV = -10 dB

 $FS = 62.0 + 7.4 + 1.6 - 29.0 + 0.0 + (-10.0) = 32.0 \text{ dB}\mu\text{V/m}$ 

Level in mV/m = Common Antilogarithm [(32.0 dB $\mu$ V/m)/20] = 39.8  $\mu$ V/m

4.6 AC Power Lines Conducted Emissions from Transmitter portion of EUT, FCC Rule 15.315:

The AC power lines conducted emission shall not exceed the limits of FCC Rule 15.207.

Measurements are made in accordance with ANSI C63.4 sub-clause 7. Emissions that are directly caused by digital circuits in the transmit path and transmitter portion are measured.

- [ ] Not applicable EUT is only powered by battery for operation.
- [ x ] EUT connects to AC power lines. Emission Data are listed in following pages. Please refer to the section 4.6.1 to 4.6.2 for more details.

Company: RTX Consumer Products Hong Kong Ltd. Date of Test: June 13-September 25, 2008 Model: 420d Mode: Speakerphone with Charger

4.6.1 AC Power Lines Conducted Emissions Configuration Photographs:

Worst Case AC Power Line Conducted Emission

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

Company: RTX Consumer Products Hong Kong Ltd. Date of Test: June 13-September 25, 2008 Model: 420d Mode: Speakerphone with Charger

4.6.2 AC Power Lines Conducted Emissions Data:

The data on the following pages list the significant emission frequencies, the limit, and the margin of compliance.

Judgement -

Passed by more than 20 dB margin

The worst case AC Power line conducted emission data are save as filename: conduct.pdf

TEST ENGINEER:

Kensit

Signature

Ken Sit, Assistant Manager Typed/Printed Name

September 27, 2008 Date

4.7 Radio Frequency Radiation Exposure, FCC Rule 15.319(i):

EUT is subject to the radio frequency exposure requirements specified in FCC Rule § 1.1307(b), 2.1091 and 2.1093. It shall be considered to operate in a "general population / uncontrolled" environment.

- [x] EUT was evaluated for Specific Absorption Rate (SAR) evaluation compliance according to OET Bulletin 65, Supplement C (Edition 01-01). It is in compliance with the SAR evaluation requirements. The caution statement specified in the user manual. A SAR test report was submitted at the same time and saved as SAR report 1 of 2.pdf and SAR report 2 of 2.pdf
- [ ] EUT was evaluated for Maximum Permissible Exposure (MPE) evaluation compliance according to OET Bulletin 65, Supplement C (Edition 01-01). The evaluation calculation results are saved as filename: RF exposure info.pdf.

# EXHIBIT 5 EQUIPMENT PHOTOGRAPHS

## 5.0 Equipment Photographs

The photographs are saved as filename: external photos.pdf & internal photos.pdf

# EXHIBIT 6 PRODUCT LABELLING

## 6.0 Product Labelling

The FCC ID label artwork and its location are saved as filename: label.pdf

The label location justification letter is saved as filename: justification.pdf

# EXHIBIT 7 TECHNICAL SPECIFICATIONS

## 7.0 Technical Specifications

The block diagram and circuit diagram are saved as filename: block.pdf and circuit.pdf.

# EXHIBIT 8 INSTRUCTION MANUAL

## 8.0 Instruction Manual

A preliminary copy of the Instruction Manual is saved as filename: manual.pdf

Please note that the required FCC Information to the User is stated on the Instruction Manual.

This manual will be provided to the end-user with each unit sold/leased in the United States.

# EXHIBIT 9 LETTER OF AGENCY

## 9.0 Letter of Agency

A copy of the Letter of Agency is saved as filename: letter of agency.pdf

# EXHIBIT 10 CONFIDENTIALITY REQUEST

## 10.0 Confidentiality Request

A copy of the Confidentiality Request is saved as filename: request.pdf