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# CONFORMANCE TEST REPORT FOR FCC Part 15, subpart D (15.323c) and Industry Canada RSS-213, Issue 2 (4.3.4b)

Report No.: 07-03-MAS-077-02

Client: Thomson Inc.

Product: DECT 6.0 Cordless Handset with Answering System & Speakerphone (FP)

Model: 27907XXX-A FCC ID: G9H2-7907A IC ID: 3765A-27907A

Manufacturer/supplier: Huiyang CCT Telecommunications Products Co., Ltd.

Date test item received: 2007/03/07

Date test campaign completed: 2007/03/29

Date of issue: 2007/03/29

The test result only corresponds to the tested sample. It is not permitted to copy this report, in part or in full, without the permission of the test laboratory.

Total number of pages of this test report: 42 pages

Test Engineer	Checked By	Approved By
James Chy	Joe Hieh	Win-Po Jean
James Cheng	Joe Hsieh	Winpo Tsai

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## 1 GENARAL INFORMATION

## 1.1 Testing Laboratory

Name: Electronic Testing Center, Taiwan

Address: No. 8, Lane 29, Wenming Rd., Leshan Tsuen, Guishan Shiang,

Taoyuan Country, 33383, Taiwan, R.O.C.

Telephone: 886-3-3280026
Fax: 886-3-3276188
NVLAP lab registration #: 200133-0
IC OATS registration #: IC 2949-1

## 1.2 Client Information

Name: Thomson Inc.

Address: 10330 North Meridian Street Indianapolis, IN 46290, USA

## 1.3 Manufacturer

Name: Huiyang CCT Telecommunications Products Co., Ltd.

Address: CCT Technology Park, San He Economic Developmental Zone,

Huiyang District, Huizhou City, Guangdong Province, PRC

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## **2 TEST INFORMATION**

# 2.1 Description of Tested Device(s)

The tested equipment is a DECT base station, which complies with ETSI EN 300175. The frequencies have been reprogrammed to comply with the FCC requirements to an Isochronous UPCS device after FCC Part 15D.

The EUT is a responding device as described in ANSI C63.17 and is designed to operate together with a DECT handset, which is then the initiating device.

Frequency Channel	Frequency	Test Frequency
CH0	1921.536 MHz	FL
CH1	1923.264 MHz	-
CH2	1924.992 MHz	F <sub>M</sub>
СНЗ	1926.720 MHz	-
CH4	1928.448 MHz	Fн

## 2.2 Test Environment

#### Normal test condition

Temperature:	20 - 25 °C
Relative humidty:	55 - 75%

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## **3 TEST REPORT SUMMARY**

# 3.1 Test Summary

Requirement	FCC Paragraph #	IC RSS-213 Paragraph #	Required	Customer Declaration	Test Pass
Monitoring time	15.323(c)(1)	4.3.4(b)(1)	$\boxtimes$		$\boxtimes$
Monitoring threshold	15.323(c)(2)	4.3.4(b)(2)	$\boxtimes$	$\boxtimes$	
Maximum transmit period	15.323(c)(3)	4.3.4(b)(3)	$\boxtimes$		$\boxtimes$
System acknowledgement	15.323(c)(4)	4.3.4(b)(4)	$\boxtimes$		$\boxtimes$
Least Interfered Channel, LIC	15.323(c)(5)	4.3.4(b)(5)	$\boxtimes$		$\boxtimes$
Random waiting	15.323(c)(6)	4.3.4(b)(6)	$\boxtimes$	$\boxtimes$	
Monitoring bandwidth and reaction time	15.323(c)(7)	4.3.4(b)(7)			$\boxtimes$
Monitoring antenna	15.323(c)(8)	4.3.4(b)(8)	$\boxtimes$	$\boxtimes$	
Monitoring threshold relaxation	15.323(c)(9)	4.3.4(b)(9)	$\boxtimes$		$\boxtimes$
Duplex system LBT	15.323(c)(10)	4.3.4(b)(10)	$\boxtimes$	$\boxtimes$	
Co-located device LBT	15.323(c)(11)	4.3.4(b)(11)	$\boxtimes$	$\boxtimes$	
Fair access	15.323(c)(12)	4.3.4(b)(12)	$\boxtimes$	$\boxtimes$	

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## 3.2 Other Comments

All measurements are traceable to national standards.

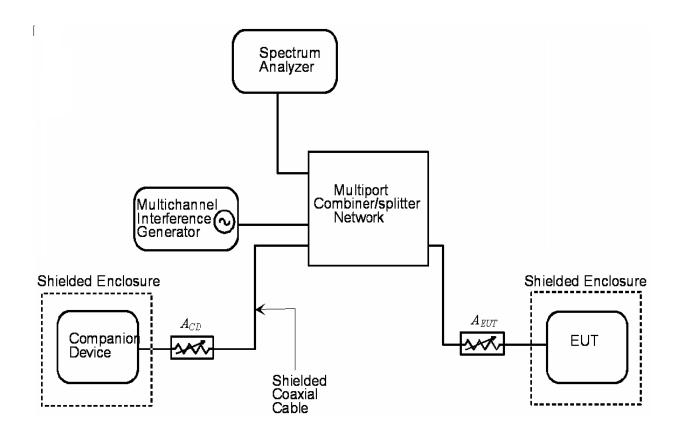
The tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC CFR47 Part 15, Paragraph 15.323 for Isochronous UPCS Devices.

The conducted test methods have been in accordance with ANSI C63.17-1998 and ANSI C63.17-2006 Draft where applicable.

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## **4 TEST SETUP**

# **4.1 Monitoring Tests**



## Test Set-Up 1

This test setup is used for all Monitoring and Time and Spectrum Access Procedure tests.

Companion Device	Acd (dB)	EUT	<b>А</b> еит (d <b>B</b> )
Base	50	Handset	0
Handset	30	Base	0

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## **5 TEST EQUIPMENT LIST**

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment and ancillaries are identified (numbered) by the Test Laboratory.

Equipment	Manufacturer	Model No.	Next Cal. Due
Radio commun. tester	Rohde & Schwarz	CTS65	07/14/2007
Vec. Signal generator	National Instruments	PXI-5670	03/07/2008
Spectrum Analyzer	National Instruments	PXI-5660	03/06/2008
Scope	National Instruments	PXI-5114	03/24/2008
Scope	National Instruments	PXI-5114	03/24/2008

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#### **6 TEST RESULT**

## **6.1 Monitoring time**

## 6.1.1 Standard Applicable: FCC 15.323(c)(1), RSS-213\_4.3.4(b)(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 millisecond or shorter frame period or at least 20 milliseconds for systems designed to use a 20 millisecond frame period.

## 6.1.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 7.3.4

#### 6.1.3 Results: Complies

EUT monitors the combined time and spectrum window prior to initiation of transmission.

#### **Measurement Data:**

This requirement is covered by results of Least Interfered Channel (LIC) test according to FCC 15.323(c) (5)

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## 6.2 Monitoring threshold

## 6.2.1 Standard Applicable: FCC 15.323(c)(2), RSS-213\_4.3.4(b)(2)

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

## 6.2.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 7.3.1

## 6.2.3 Result: Not applicable

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## 6.3 Maximum transmit period

# 6.3.1 Standard Applicable: FCC 15.323(C)(3), RSS-213\_4.3.4(b)(3)

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.

## 6.3.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 8.2.2

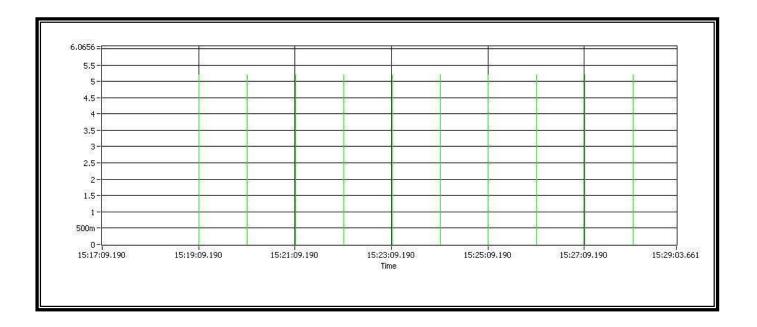
6.3.3 Test Results: Complies

#### **Measurement Data:**

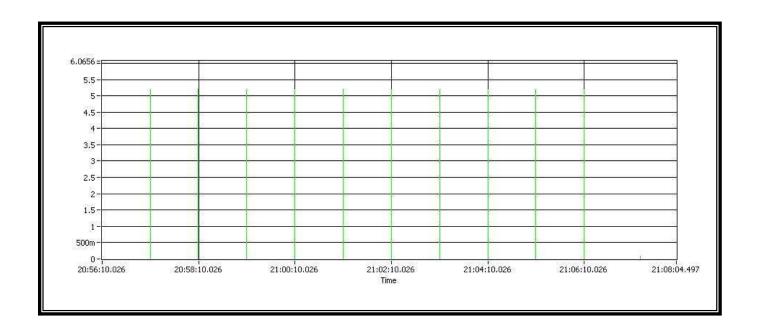
	Observation	Limit
Maximum transmission time	5 hours 47 minutes	8 hours

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#### Start to transmission time:



## Cease of transmission time:



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## 6.4 System Acknowledgement

## 6.4.1 Standard Applicable: FCC 15.323(c)(4), RSS-213\_4.3.4(b)(4)

Once access to specific combined time and spectrum windows is obtained an acknowledgement from a system participant must be received by the initiating transmitter within one second or transmission must cease. Periodic acknowledgements 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 acknowledgement, at which time the access criteria must be repeated.

## 6.4.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 8

## 6.4.3 Results: Complies

#### **Measurement Data**

**Unacknowledged transmission:** 

Limit:

Requirement	Value
Change of access criteria for control information	30 s
Pause length	> 10 ms
Change of access channel	mandatory

#### Result:

Requirement	Time	Verdict
Change of access criteria for control information	1.28 s	pass
Pause length	20 ms	pass
Change of access channel	This requirement is covered by results of Least Interfered Channel (LIC) test according to FCC 15.323(c) (5)	pass

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## Connection acknowledgement:

## Limit:

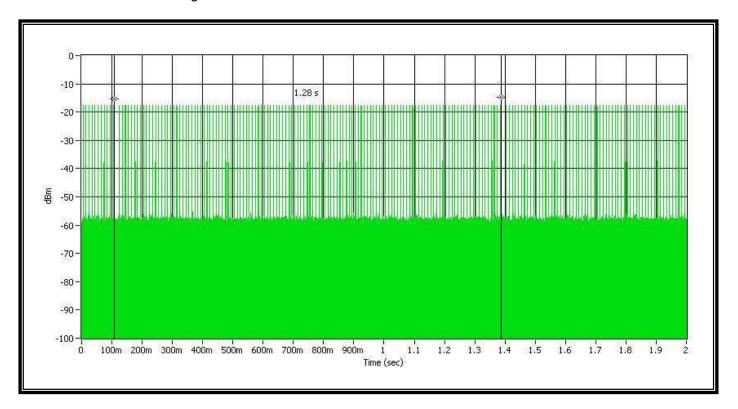
Requirement	Value
Connection acknowledgement	1 s
Termination of transmission	30 s

## Result:

Requirement	Time observed	Verdict
Connection acknowledgement	5 ms	Pass
Termination of transmission	7 s	Pass

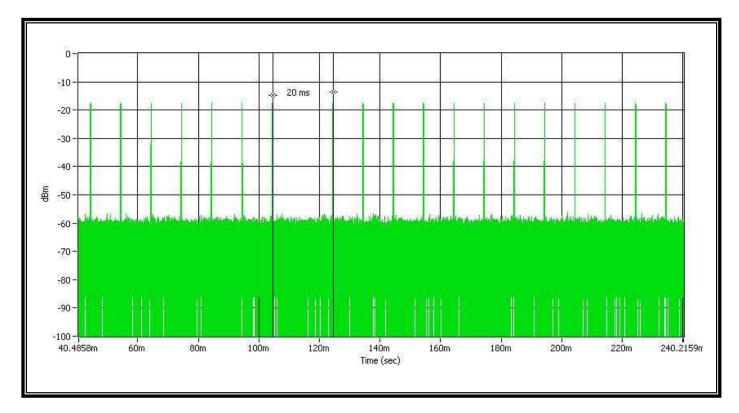
FCC ID: G9H2-7907A ETC Report No.: 07-03-MAS-077-02 IC ID: 3765A-27907A Sheet 15 of 42 Sheets

Comment: Unacknowledged transmission



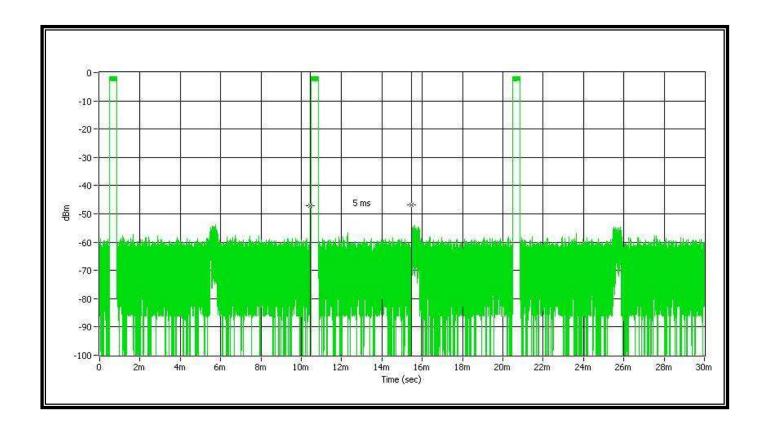
FCC ID: G9H2-7907A ETC Report No.: 07-03-MAS-077-02 IC ID: 3765A-27907A Sheet 16 of 42 Sheets

## Comment: Unacknowledged transmission



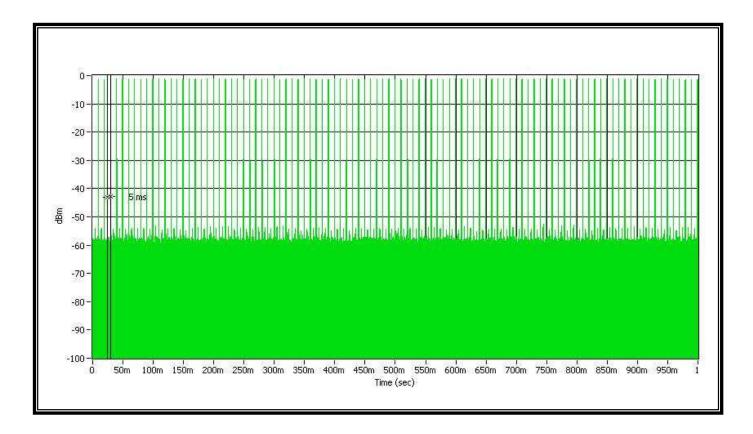
FCC ID: G9H2-7907A ETC Report No.: 07-03-MAS-077-02 IC ID: 3765A-27907A Sheet 17 of 42 Sheets

Comment: Connection acknowledgement



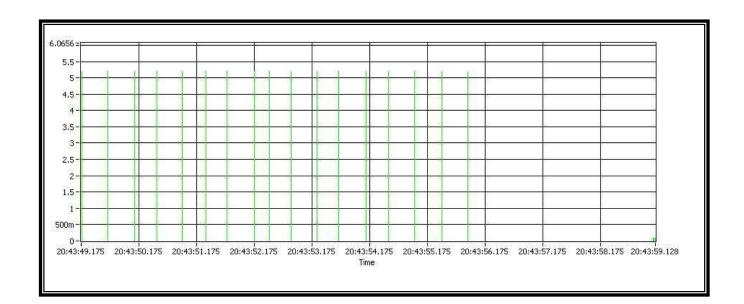
FCC ID: G9H2-7907A ETC Report No.: 07-03-MAS-077-02 IC ID: 3765A-27907A Sheet 18 of 42 Sheets

Comment: Connection acknowledgement



FCC ID: G9H2-7907A ETC Report No.: 07-03-MAS-077-02 IC ID: 3765A-27907A Sheet 19 of 42 Sheets

Comment: Termination of transmission



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## 6.5 Least Interfered Channel, LIC

## 6.5.1 Standard Applicable: FCC 15.323(c)(5), RSS-213\_4.3.4(b)(5)

If a minimum of 40 duplex system access channels are defined, the system must have monitored all access channels defined for its system within the last 10 seconds and must verify, within the 20 milliseconds (40 milliseconds for devices designed to use a 20 milliseconds frame period) immediately preceding actual channel access that the detected power of the selected time and spectrum windows is no higher than the previously detected value. The power measurement resolution for this comparison must be accurate within 6 dB. No device or group of co-operating devices located within 1 meter of each other shall during any frame period occupy more than 6 MHz of aggregate band width, or alternatively, more than one third of the time and spectrum windows defined by the system.

### 6.5.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 7.3.2, 7.3.3, 7.3.4

## 6.5.3 Results: Complies

#### **Measurement Data**

Calculation of monitoring threshold limits:

Lower threshold:  $TL = 15 \log 10B - 184 + 30 - P (dBm)$ Upper threshold:  $TU = 15 \log 10B - 184 + 50 - P (dBm)$ 

B = emission bandwidth (Hz) P = peak transmit power (dBm)

Calculated thresholds:

TL: Lower threshold (dBm)	-81.9
TU: Upper threshold (dBm)	-61.9

Limit:

Used	Emission bandwidth (MHz)	1.27	
results	Peak transmit power (dBm)	19.46	
Limits	TLR < TL+UM = -81.9 + 6 = -75.9 (dBm)		
	TUR < TU+UM = -61.9 + 6 = -55.9 (dBm)		

Result:

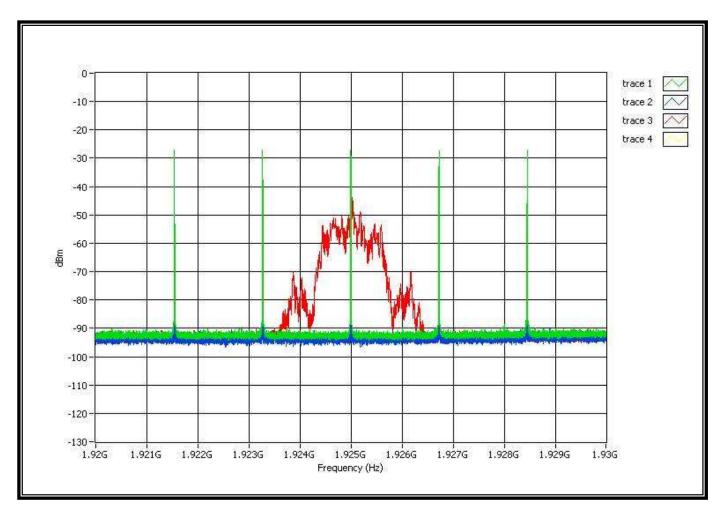
Least interfered channel	Pass
TLR: Lower threshold (dBm)	n.a.
TUR: Upper threshold (dBm)	-79.0

Note 1: The upper threshold is applicable for systems which have defined a minimum of 40 duplex system access channels.

Note 2: f1=1921.536 MHz, f2=1928.448 MHz

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Comment: 7.3.2, initial setup



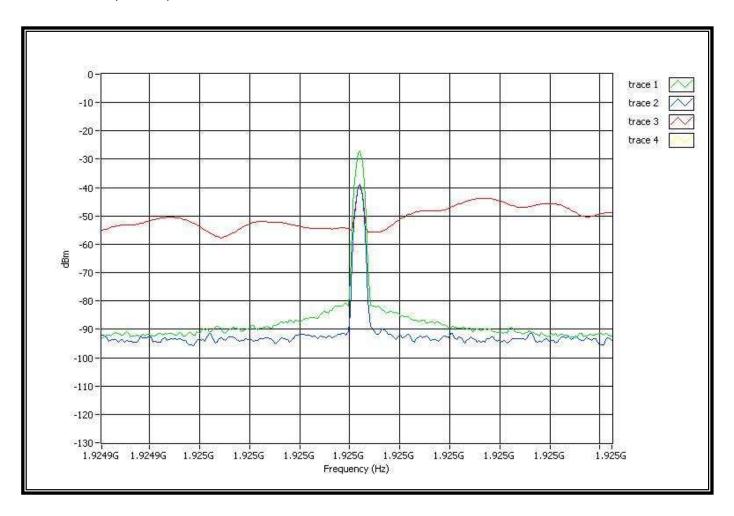
Note1: Trace1 (green) is the interference on all 5 carriers. The level is TU+UM+10dB.

Note2: Trace2 (blue) is interference on all 5 carriers. The level is TUR.

Note3: Trace3 (Red) is the EUT begins to transmit the beacon when interference is TUR.

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Note: 7.3.2 (zoom in)



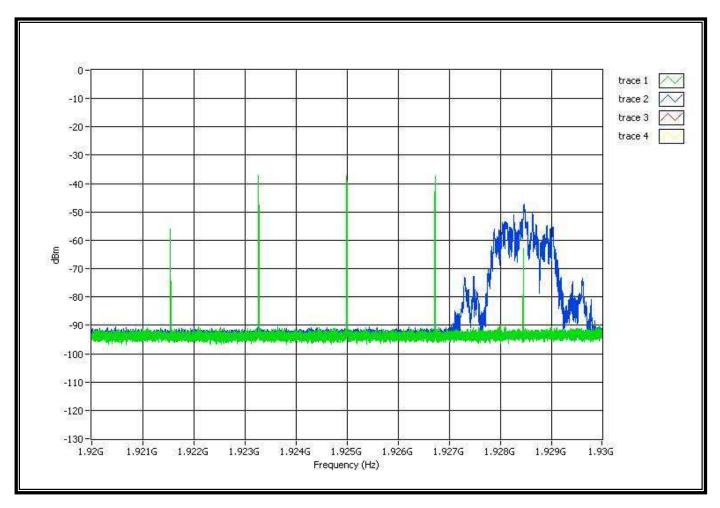
Note1: Trace1 (green) is the interference on all 5 carriers. The level is TU+UM+10dB.

Note2: Trace2 (blue) is interference on all 5 carriers. The level is TUR.

Note3: Trace3 (Red) is the EUT begins to transmit the beacon when interference level is TUR.

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Note: 7.3.3b



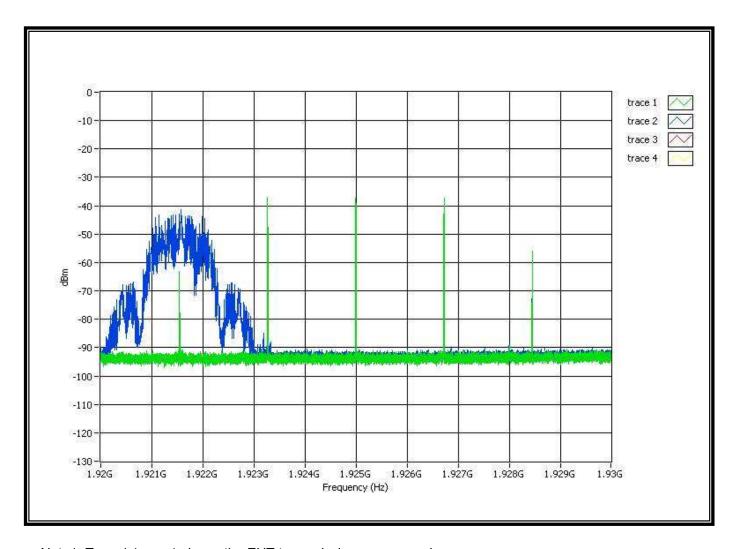
Note1: Trace1 (green) shows the EUT transmissions are occurring.

Note2: Trace2 (blue) shows the interference profile.

Note3: The EUT always transmits on f2 (the carrier with the lower interference level) and so meets the requirement.

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Note: 7.3.3c



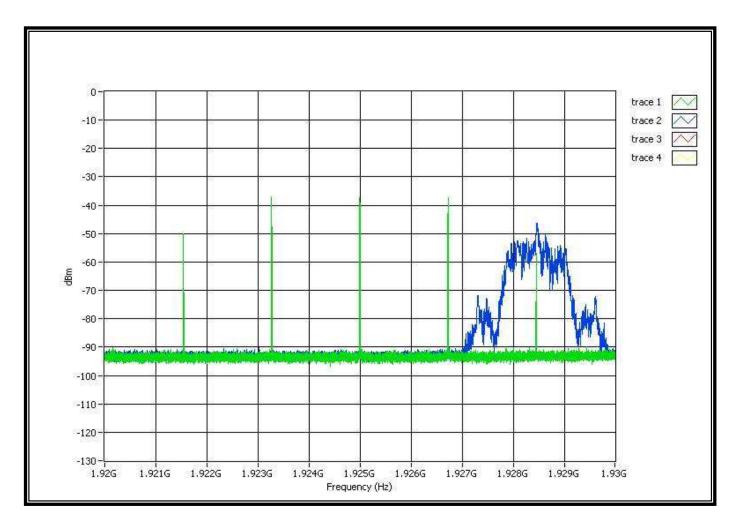
Note1: Trace1 (green) shows the EUT transmissions are occurring.

Note2: Trace2 (blue) shows the interference profile.

Note3: The EUT always transmits on f1 (the carrier with the lower interference level) and so meets the requirement.

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Note: 7.3.3d



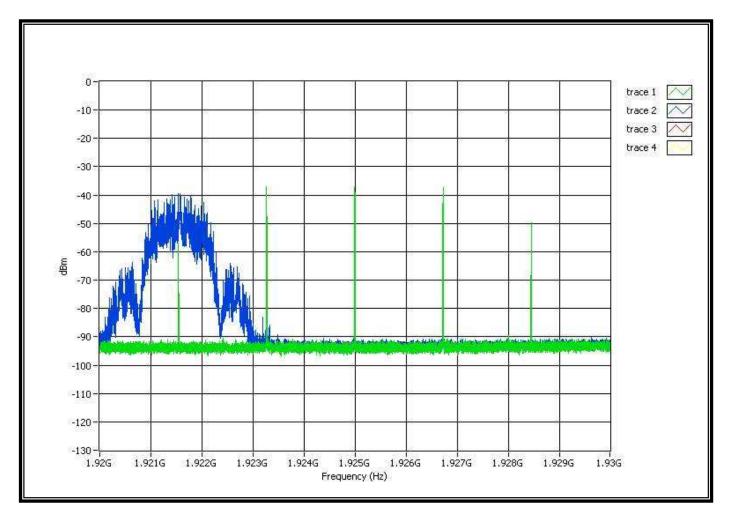
Note1: Trace1 (green) shows the EUT transmissions are occurring.

Note2: Trace2 (blue) shows the interference profile.

Note3: The EUT always transmits on f2 (the carrier with the lower interference level) and so meets the requirement.

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Note: 7.3.3e



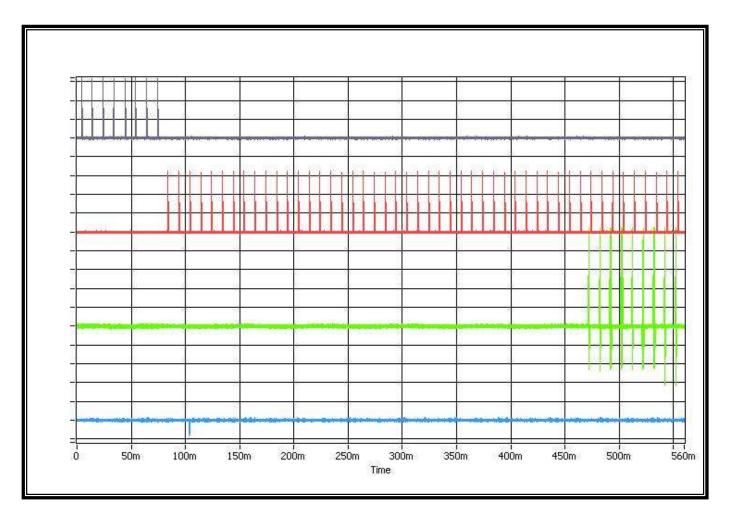
Note1: Trace1 (green) shows the EUT transmissions are occurring.

Note2: Trace2 (blue) shows the interference profile.

Note3: The EUT always transmits on f1 (the carrier with the lower interference level) and so meets the requirement.

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Note: 7.3.4



Note1: Trace1 (deep blue, top) shows interference on f1.

Note2: Trace2 (red, 2nd from top) shows the interference on f2.

Note3: Trace3 (green, 3rd from top) shows EUT transmissions on f1.

Note4: Trace4 (light blue, 4th from top) shows the signal to the handset to trigger the transmissions.

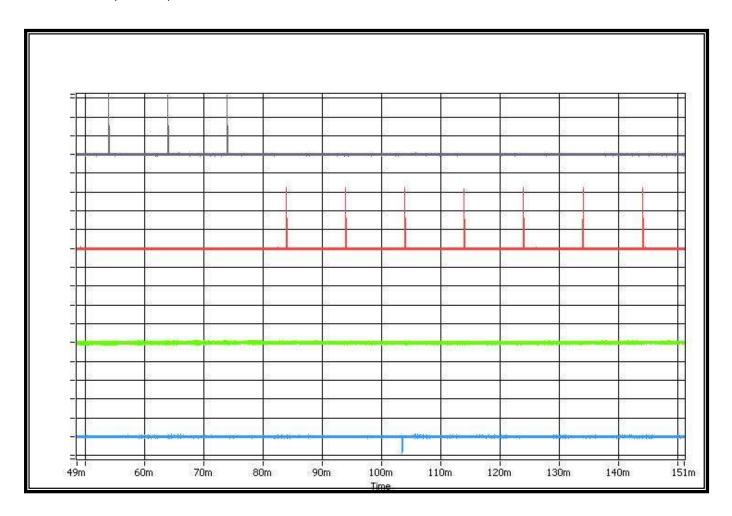
Note5: Set interference on all system carriers except f2, at a level of TU+UM, in-band per carrier.

Note6: Apply interference on f2 at a level of TU+UM, in-band, and immediately remove all interference from f1 and immediately (but not sooner than 20ms after the interference on f2 is applied) cause the EUT to attempt transmission.

Note7: The EUT transmits on f1 and so meets the requirement.

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Note: 7.3.4 (Zoom in)



Note1: Trace1 (deep blue, top) shows interference on f1.

Note2: Trace2 (red, 2nd from top) shows the interference on f2.

Note3: Trace3 (green, 3rd from top) shows EUT transmissions on f1.

Note4: Trace4 (light blue, 4th from top) shows the signal to the handset to trigger the transmissions.

The signal is not sooner than 20 ms after the interference on f2 is applied.

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## 6.6 Random waiting

## 6.6.1 Standard Applicable: FCC 15.323(c)(6), RSS-213\_4.3.4(b)(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.

## 6.6.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 8.1.3

#### 6.6.3 Results:

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

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## 6.7 Monitoring bandwidth and reaction time

## 6.7.1 Standard Applicable: FCC 15.323(c)(7), RSS-213\_4.3.4(b)(7)

The monitoring system band width must be equal to or greater than the emission band width of the intended transmission and have a maximum reaction time less than  $50 \times SQRT$  (1.25/emission band width in MHz) microseconds for signals at the applicable threshold level but shall not be required to be less than  $50 \times SQRT$  (1.25/emission band width in MHz) microseconds but shall not be required to be less than  $35 \times SQRT$  (1.25/emission band width in MHz) microseconds but shall not be required to be less than  $35 \times SQRT$  (1.25/emission band width in MHz) microseconds

#### 6.7.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 7.5

#### 6.7.3 Results: Meets the requirement

#### **Measurement Data**

Calculation of applied pulse eidth and maximum reaction time:

For emission bandwidth > 1.25MHz, the pulse width is always 35us and 50us.

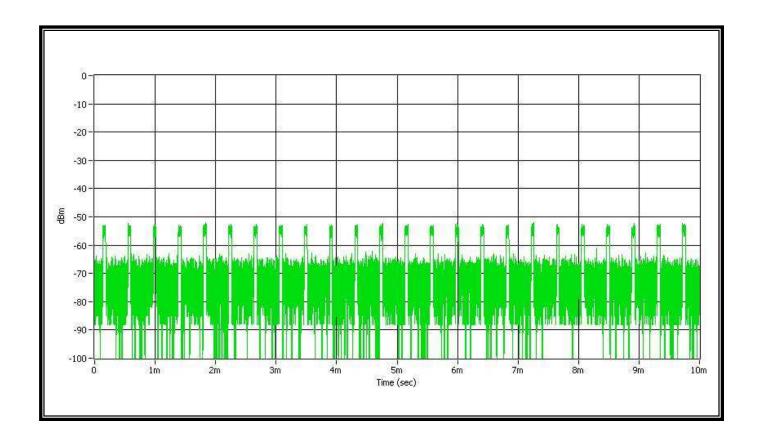
Used results Emission bandwidth B (MHz)		1.27 MHz
Maximum reaction time	50√1.25/B (μs)	49.6 µs
and pulse width	35√1.25/B (μs)	34.7 µs

#### Result:

Pulse width	Connection
50 μs or 50√1.25/B μs	no
35 μs or 35√1.25/B μs	no

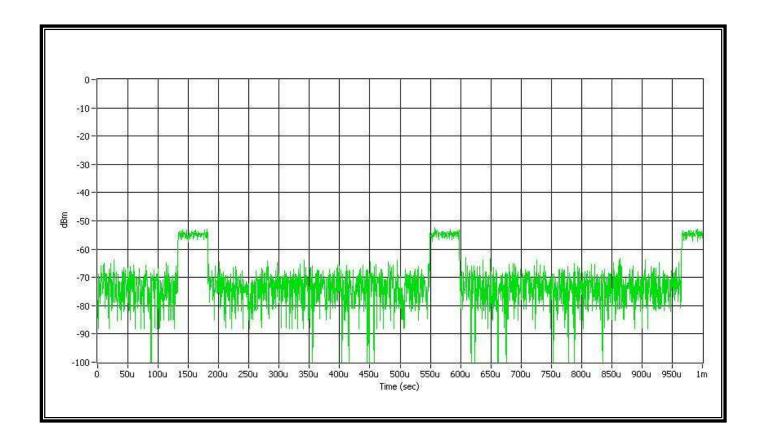
FCC ID: G9H2-7907A ETC Report No.: 07-03-MAS-077-02 IC ID: 3765A-27907A Sheet 31 of 42 Sheets

Note: 50us



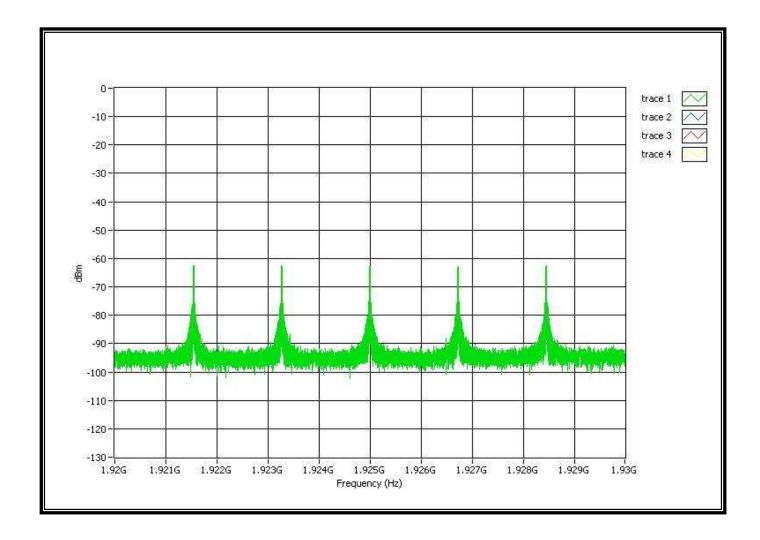
FCC ID: G9H2-7907A ETC Report No.: 07-03-MAS-077-02 IC ID: 3765A-27907A Sheet 32 of 42 Sheets

Note: 50us (Zoom in)



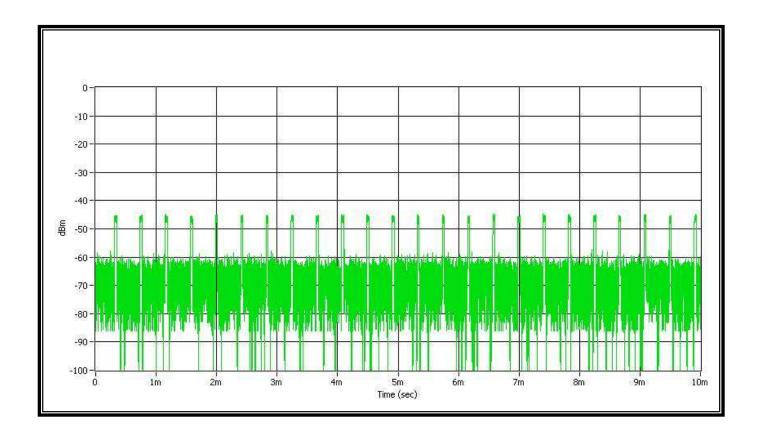
FCC ID: G9H2-7907A ETC Report No.: 07-03-MAS-077-02 IC ID: 3765A-27907A Sheet 33 of 42 Sheets

Note: 50us (5 carriers)



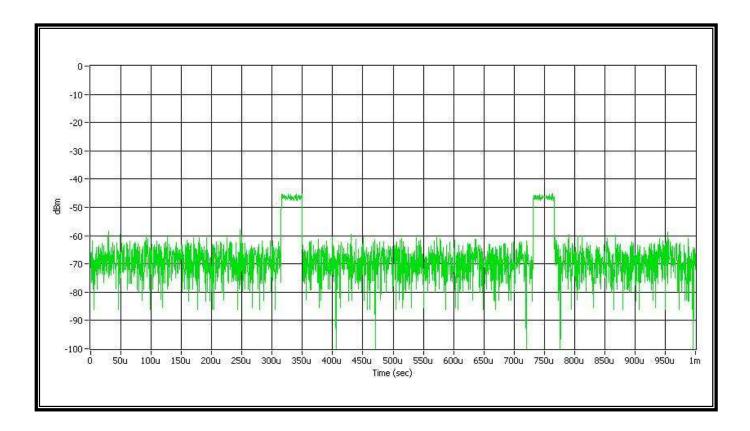
FCC ID: G9H2-7907A ETC Report No.: 07-03-MAS-077-02 IC ID: 3765A-27907A Sheet 34 of 42 Sheets

Note: 35us



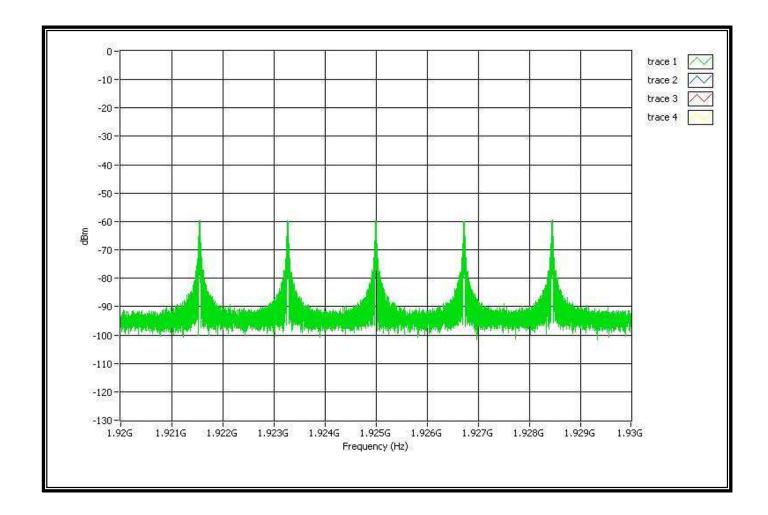
FCC ID: G9H2-7907A ETC Report No.: 07-03-MAS-077-02 IC ID: 3765A-27907A Sheet 35 of 42 Sheets

Note: 35us (Zoom in)



FCC ID: G9H2-7907A ETC Report No.: 07-03-MAS-077-02 IC ID: 3765A-27907A Sheet 36 of 42 Sheets

Note: 35us (5 carriers)



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## 6.8 Monitoring antenna

## 6.8.1 Standard Applicable: FCC 15.323(c)(8), RSS-213\_4.3.4(b)(8)

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

## 6.8.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 4

## 6.8.3 Results: Complies

The EUT uses the same antennas for transmission and reception as for monitoring.

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## 6.9 Monitoring threshold relaxation

## 6.9.1 Standard Applicable: FCC 15.323(c)(9), RSS-213\_4.3.4(b)(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.

## 6.9.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 4

## 6.9.3 Results: Complies

#### **Measurement Data:**

This requirement is covered by results of Least Interfered Channel (LIC) test according to FCC 15.323(c) (5)

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## 6.10 Duplex system LBT

## 6.10.1 Standard Applicable: FCC 15.323(c)(10), RSS-213\_4.3.4(b)(10)

An initiating device may attempt to establish a duplex connection by monitoring 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.

## 6.10.2 Measurement procedure

Measurement method according to ANSI C63.17, clause 8.3 This test is required for equipment that uses the access criteria in FCC 15.323(c)(10).

#### 6.10.3 Test Results:

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

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#### 6.11 Co-located device LBT

## 6.11.1 Standard Applicable: FCC 15.323(c)(11), RSS-213\_4.3.4(b)(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 device. 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.

## 6.11.2 Measurement procedure

Measurement method according to ANSI C63.17 2006 paragraph 8.4

#### 6.11.3 Results:

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

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## 6.12 Fair Access

## 6.12.1 Standard Applicable: FCC 15.323(c)(12), RSS-213\_4.3.4(b)(12)

The provisions of (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 for other devices.

## 6.12.2 Results:

The manufacturer declares that EUT does not work in a mode which denies fair access to spectrum for other devices.

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# **Appendix1 Manufacturer Declaration**

-	1000	-
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	- 88	600

Applicant Name :	Thomson Inc.		
Address :	10300 North Meridian Street, Indianapolis, IN 46290, U.S.A.		), U.S.A.
Contact person :	Roger Hunt		· · · · · · · · · · · · · · · · · · ·
Phone No. :	317-587-3095 Fax No. : 317-587-6686		87-6686
Manufacturer Name :	Huiyang CCT Telecommunications Products Co. Ltd.		
Address :	CCT Technology Park, San He Econor Hulyang District, Huizhou City, Guange	nic Developm	ental Zone,
	pp		<u></u>
Model name :	27907XXX-A	27907XXX-	FP
FCC ID :	G9H2-7907AH	G9H2-7907A	manufacture a sur near a member of the
rooto.	JOSH 2-1-801 ALT	10017	
- to			Remarks
Does a system built wil	h the EUT that implement the provisions	-	
(E)	enabling the use of the upper threshold	⊠ Yes	
for deferral?		□ No	
	100.0		
According to 47CFR18	⊠ Yes		
bandwidth in further	22.00		
range?		□ No	
Does a system built i	using the EUT that operate under the		
2 0 Mar 201 1000000	5.323(c)(6) incorporating provisions for	☐ Yes	
waiting for a channel to	The state of the s	⊠ No	
waiting for a criaminor to	go dom i		
According to 47CFR1	5.323(c)(8), does EUT use the same	⊠ Yes	
antennas for transmissi	on and reception as for monitoring?	□ No	
Dose a evelom huit	with the EUT that operate under the		
(1 <del>5</del> 4)		☐ Yes	
ENGAGE CONTROL (CONTROL CONTROL CONTRO	5.323(c)(10) to test for deferral only in	⊠ No	
CORLINGTION WITH A COM	panion device?	23 110	W.
	using the EUT that operate under the		
	provisions of 47CFR 15.323(c)(11) enabling the access criteria		
Does a system built	5.323(c)(11) enabling the access criteria	Yes	
Does a system built provisions of 47CFR 1			
Does a system built provisions of 47CFR 1scheck on the receive	5.323(c)(11) enabling the access criteria e channel while in the presence of	⊠ No	
Does a system built provisions of 47CFR 1: check on the receiv collocated interferers?	e channel while in the presence of	⊠ No	
Does a system built provisions of 47CFR 1scheck on the receive collocated interferers?  According to 47CFR1s			

Signed by:	Roger Hunt	Signature:	RAShirt
Date:	Mar. 08, 2007		

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