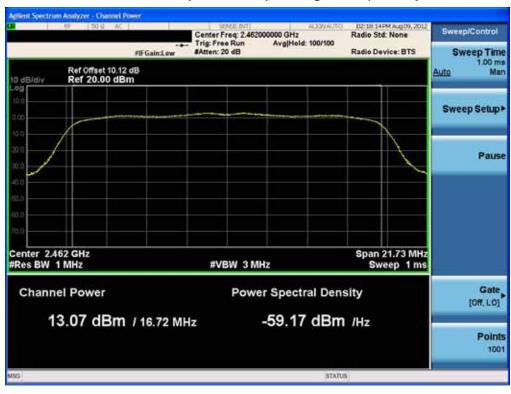


## Conducted Output Power (802.11g-CH 11) 12Mbps



# Conducted Output Power (802.11g-CH 11) 18Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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#### Conducted Output Power (802.11g-CH 11) 24Mbps



## Conducted Output Power (802.11g-CH 11) 36Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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#### Conducted Output Power (802.11g-CH 11) 48Mbps



## Conducted Output Power (802.11g-CH 11) 54Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

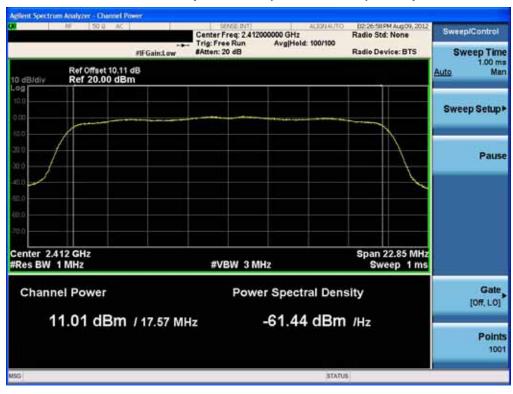
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#### Conducted Output Power (802.11n-CH 1) 6.5Mbps



## Conducted Output Power (802.11n-CH 1) 13Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Conducted Output Power (802.11n-CH 1) 19.5Mbps



## Conducted Output Power (802.11n-CH 1) 26Mbps



FCC PT.15.24 TEST REPOR		FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report N	lo.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR	45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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#### Conducted Output Power (802.11n-CH 1) 39Mbps



# Conducted Output Power (802.11n-CH 1) 52Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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#### Conducted Output Power (802.11n-CH 1) 58.5Mbps



## Conducted Output Power (802.11n-CH 1) 65Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Conducted Output Power (802.11n-CH 6) 6.5Mbps



## Conducted Output Power (802.11n-CH 6) 13Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Conducted Output Power (802.11n-CH 6) 19.5Mbps



## Conducted Output Power (802.11n-CH 6) 26Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Conducted Output Power (802.11n-CH 6) 39Mbps



## Conducted Output Power (802.11n-CH 6) 52Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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#### Conducted Output Power (802.11n-CH 6) 58.5Mbps



## Conducted Output Power (802.11n-CH 6) 65Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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#### Conducted Output Power (802.11n-CH 11) 6.5Mbps



# Conducted Output Power (802.11n-CH 11) 13Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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#### Conducted Output Power (802.11n-CH 11) 19.5Mbps



## Conducted Output Power (802.11n-CH 11) 26Mbps



FCC PT.15.24 TEST REPOR			www.hct.co.kr	
Test Report N	lo.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR	45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Conducted Output Power (802.11n-CH 11) 39Mbps



## Conducted Output Power (802.11n-CH 11) 52Mbps



FCC PT.15.24 TEST REPOR			www.hct.co.kr	
Test Report N	lo.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR	45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Conducted Output Power (802.11n-CH 11) 58.5Mbps



## Conducted Output Power (802.11n-CH 11) 65Mbps



FCC PT.15.24 TEST REPOR			www.hct.co.kr	
Test Report N	lo.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR	45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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#### (5745 MHz ~5825 MHz)

# Conducted Output Power (802.11a-CH 149) 6 Mbps



## Conducted Output Power (802.11a-CH 149) 9 Mbps



FCC PT.15.247 TEST REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Conducted Output Power (802.11a-CH 149) 12 Mbps



## Conducted Output Power (802.11a-CH 149) 18 Mbps



FCC PT.15.247 TEST REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Conducted Output Power (802.11a-CH 149) 24 Mbps



# Conducted Output Power (802.11a-CH 149) 36 Mbps



FCC PT.15.247 TEST REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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#### Conducted Output Power (802.11a-CH 149) 48 Mbps



## Conducted Output Power (802.11a-CH 149) 54 Mbps



FCC PT.15.247 TEST REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

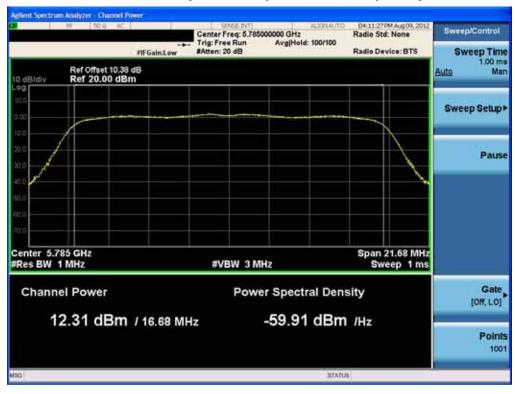
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# Conducted Output Power (802.11a-CH 157) 6 Mbps



## Conducted Output Power (802.11a-CH 157) 9 Mbps



FCC PT.15.247 TEST REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Conducted Output Power (802.11a-CH 157) 12 Mbps



## Conducted Output Power (802.11a-CH 157) 18 Mbps



FCC PT.15.247 TEST REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Conducted Output Power (802.11a-CH 157) 24 Mbps



## Conducted Output Power (802.11a-CH 157) 36 Mbps



FCC PT.15.247 TEST REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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#### Conducted Output Power (802.11a-CH 157) 48 Mbps



# Conducted Output Power (802.11a-CH 157) 54 Mbps



FCC PT.15.247 TEST REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

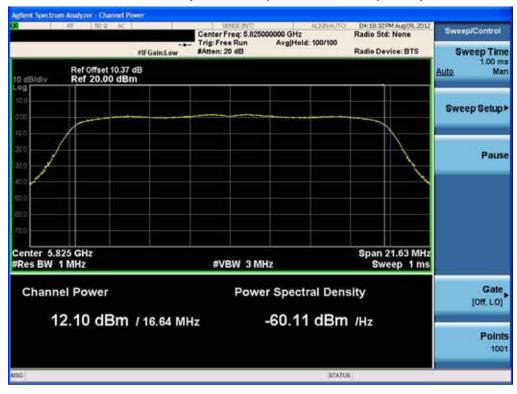
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# Conducted Output Power (802.11a-CH 165) 6 Mbps



## Conducted Output Power (802.11a-CH 165) 9 Mbps



FCC PT.15.247 TEST REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Conducted Output Power (802.11a-CH 165) 12 Mbps



# Conducted Output Power (802.11a-CH 165) 18 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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#### Conducted Output Power (802.11a-CH 165) 24 Mbps



# Conducted Output Power (802.11a-CH 165) 36 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Conducted Output Power (802.11a-CH 165) 48 Mbps



## Conducted Output Power (802.11a-CH 165) 54 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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#### (5745 MHz ~5825 MHz)

# Conducted Output Power (802.11n-CH 149) 6.5 Mbps



#### Conducted Output Power (802.11n-CH 149) 13 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB



#### Conducted Output Power (802.11n-CH 149) 19.5 Mbps



# Conducted Output Power (802.11n-CH 149) 26 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Conducted Output Power (802.11n-CH 149) 39 Mbps



# Conducted Output Power (802.11n-CH 149) 52 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Conducted Output Power (802.11n-CH 149) 58.5 Mbps



# Conducted Output Power (802.11n-CH 149) 65 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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# Conducted Output Power (802.11n-CH 157) 6.5 Mbps



## Conducted Output Power (802.11n-CH 157) 13 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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#### Conducted Output Power (802.11n-CH 157) 19.5 Mbps



## Conducted Output Power (802.11n-CH 157) 26 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Conducted Output Power (802.11n-CH 157) 39 Mbps



## Conducted Output Power (802.11n-CH 157) 52 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Conducted Output Power (802.11n-CH 157) 58.5 Mbps



# Conducted Output Power (802.11n-CH 157) 65 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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# Conducted Output Power (802.11n-CH 165) 6.5 Mbps



## Conducted Output Power (802.11n-CH 165) 13 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Conducted Output Power (802.11n-CH 165) 19.5 Mbps



# Conducted Output Power (802.11n-CH 165) 26 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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#### Conducted Output Power (802.11n-CH 165) 39 Mbps



# Conducted Output Power (802.11n-CH 165) 52 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Conducted Output Power (802.11n-CH 165) 58.5 Mbps



# Conducted Output Power (802.11n-CH 165) 65 Mbps



FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## 8.3 POWER SPECTRAL DENSITY (802.11a/b/g/n)

#### Test Requirements and limit, §15.247(e)

The peak power spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

Minimum Standard – the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

<b>■</b> T	EST CON	IFIGURATION			
ı	E111		A *11"11 1	Vin a atmitted	B oo live on

#### TEST PROCEDURE

We tested according to KDB 558074(issued 1/18/2012).

The spectrum analyzer is set to:

- 1. Span = 5 30 % greater than the EBW
- 2. RBW = 100 kHz
- 3. VBW = 300 kHz
- 4. Sweep = Auto couple
- 5. Detector Mode = Peak
- 6. Trace Mode = Max hold
- 7. Search peak

#### Sample Calculation

PSD = Reading Value + ATT loss + Cable loss(1 ea) + BWCF = -5 dBm + 10 dB + 0.8 dB -15.2 dB= 0.6 dBm

Where: BWCF(Bandwidth Correction Factor) = 10log(3 kHz/100 kHz) = -15.2 dB

#### Note:

- 1. Spectrum reading values are not plot data. The PSD results in plot is already including the actual values of loss for the attenuator and cable combination.
- 2. Spectrum offset = Attenuator loss + Cable loss
- 3. We apply to the offset in the 2.4 GHz and 5.8 GHz range that was rounded off to the closest tenth dB. Actual value of loss for the attenuator and cable combination is below table.

FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB



Band	Frequency(MHz)	Loss(dB)
2.4 GHz	2412	10.11
	2437	10.10
	2462	10.12
5.8 GHz	5745	10.37
	5785	10.38
	5825	10.37

(Actual value of loss for the attenuator and cable combination)

# **■ TEST RESULTS**

## **Conducted Power Density Measurements**

			lea i ower bensit	•	Result					
Frequency (MHz)	Channel No.	Mode	Spectrum Value(dBm)	BWCF (dB)	PSD (dBm)	Limit (dBm)	Pass/ Fail			
2412	1		4.486	-15.2	-10.597	8	Pass			
2437	6	802.11b	5.034	-15.2	-10.371	8	Pass			
2462	11	1	6.021	-15.2	-10.148	8	Pass			
2412	1		2.556	-15.2	-13.034	8	Pass			
2437	6	802.11g	3.331	-15.2	-12.637	8	Pass			
2462	11		3.699	-15.2	-12.104	8	Pass			
2412	1	802.11n	1.840	-15.2	-13.774	8	Pass			
2437	6	2.4 GHz	2.452	-15.2	-13.520	8	Pass			
2462	11	Band	3.032	-15.2	-13.379	8	Pass			
5745	149		2.564	-15.2	-14.043	8	Pass			
5785	157	802.11a	2.344	-15.2	-14.184	8	Pass			
5825	165		2.592	-15.2	-15.492	8	Pass			
5745	149	802.11n	1.451	-15.2	-14.903	8	Pass			
5785	157	5.8 GHz	1.370	-15.2	-14.921	8	Pass			
5825	165	Band	1.456	-15.2	-15.271	8	Pass			

Note : PSD = Spectrum Value + BWCF

FCC PT.15.247 TEST REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB



#### RESULT PLOTS

# Power Spectral Density (802.11b-CH 1)



## Power Spectral Density (802.11b-CH 6)



FCC PT.15.247 TEST REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB



## Power Spectral Density (802.11b-CH 11)



# Power Spectral Density (802.11g-CH 1)

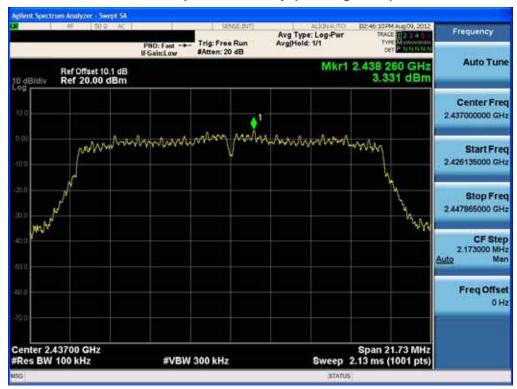


FCC PT.15.247 TEST REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Power Spectral Density (802.11g-CH 6)



## Power Spectral Density (802.11g-CH11)



FCC PT.15.247 TEST REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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## Power Spectral Density (802.11n-CH 1)



## Power Spectral Density (802.11n-CH 6)



FCC PT.15.247 TEST REPORT		www.hct.co.kr	
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCTR1208FR45	August 27, 2012	Cellular/PCS GSM/GPRS/EDGE/WCDMA/HSDPA/HSUPA Phone with Bluetooth/WLAN/NFC	ZNFP895QB

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# Power Spectral Density (802.11n-CH11)



## Power Spectral Density (802.11a-CH 149)

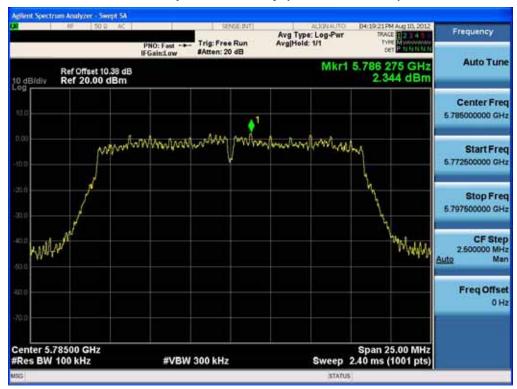


FCC PT.15.247 TEST REPORT	FCC CERTIFICATION REPORT		www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
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# Power Spectral Density (802.11a-CH 157)



# Power Spectral Density (802.11a-CH 165)



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## Power Spectral Density (802.11n-CH 149)



## Power Spectral Density (802.11n-CH 157)



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Test Report No.	Date of Issue:	EUT Type:	FCC ID:
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# Power Spectral Density (802.11n-CH 165)





# 8.4 OUT OF BAND EMISSIONS AT THE BAND EDGE/ CONDUCTED SPURIOUS EMISSIONS Test Requirements and limit, §15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.205(c)).

Limit: 20 dBc

#### TEST CONFIGURATION

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#### **■ TEST PROCEDURE**

The transmitter output is connected to the spectrum analyzer.

RBW = 100 kHz(Upon 1 GHz = 1 MHz)

VBW = 300 kHz(Upon 1 GHz = 1 MHz)

Set span to encompass the spectrum to be examined

Detector = Peak

Trace Mode = max hold

Sweep = auto couple

Measurements are made over the 30 MHz to 40 GHz range with the transmitter set to the lowest, middle, and highest channels.

#### Note:

- 1. The band edge results in plot is already including the actual values of loss for the attenuator and cable combination.
- 2. Spectrum offset = Attenuator loss + Cable loss
- 3. We apply to the offset in the 2.4 GHz and 5.8 GHz range that was rounded off to the closest tenth dB. Actual value of loss for the attenuator and cable combination is below table.

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