

HCT CO., LTD.

CERTIFICATE OF COMPLIANCE

FCC Certification

Applicant Name:		Date of Issue:		
LG Electronics MobileComm		March 24 2014		
		Test Site/Location:		
Address:		HCT CO., LTD., 74, Seoicheon-ro 578beon-gil, Majang-		
1000 Sylvan Avenue, Englev	vood Cliffs NJ 07632	myeon, Icheon-si, Gyeonggi-do, Korea		
		Report No.: HCT-R-1403-F025-2		
		HCT FRN: 0005866421		
FCC ID:	ZNFD625			
APPLICANT:	LG Electronic	cs MobileComm U.S.A., Inc.		
FCC Model(s):	LG-D625			
Additional FCC Model(s):	LGD625, D625			
EUT Type:	•	VCDMA, LTE Phone with Bluetooth/WLAN/NFC		
FCC Classification:		ansmitter Held to Ear (PCE)		
FCC Rule Part(s):	§2, §27			
Tx Frequency:	0.0	MHz (LTE – Band 4)		
Max. RF Output Power:	Band 4 (1.4 MHz) :	0.587 W (QPSK) (27.69 dBm)		
	Band 4 (3 MHz) :	0.582 W (16-QAM) (27.65 dBm) 0.583 W (QPSK) (27.66 dBm)		
	Dana + (0 mnz).	0.575 W (16-QAM) (27.60 dBm)		
	Band 4 (5 MHz) :	0.618 W (QPSK) (27.91 dBm)		
		0.630 W (16-QAM) (27.99 dBm)		
	Band 4 (10 MHz) :	0.541 W (QPSK) (27.33 dBm)		
		0.569 W (16-QAM) (27.55 dBm)		
	Band 4 (15 MHz) :	0.471 W (QPSK) (26.73 dBm)		
	Band 4 (20 MHz) :	0.483 W (16-QAM) (26.84 dBm) 0.518 W (QPSK) (27.14 dBm)		
	Dallu 4 (20 MHZ) .	0.511 W (16-QAM) (27.08 dBm)		
	Band 4 (1.4 MHz) :	1M09G7D (QPSK) / 1M09W7D (16-QAM)		
Emission Designator(s):	Band 4 (3 MHz) :	2M69G7D (QPSK) / 2M70W7D (16-QAM)		
	Band 4 (5 MHz) :	4M50G7D (QPSK) / 4M50W7D (16-QAM)		
	Band 4 (10 MHz) :	8M96G7D (QPSK) / 8M95W7D (16-QAM)		
	Band 4 (15 MHz) :	13M5G7D (QPSK) / 13M5W7D (16-QAM)		
	Band 4 (20 MHz) :	17M9G7D (QPSK) / 17M9W7D (16-QAM)		
The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility				

The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. **HCT CO., LTD.** Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)

Report prepared by

: Jong Seok Lee

Test engineer of RF Team

Approved by : Chang Seok Choi Manager of RF Team

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FCC CERTIFICATION REPORT			www.hct.co.kr	
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625	
Page 1 of 76				



Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1403-F025	March 14, 2014	-First Approval Report
		-Revised the Emission Designators on page 1, 4
HCT-R-1403-F025-1	March 21, 2014	-Revised the EUT Description on section 2.1 -Revised the Battery Endpoint (3.23 V \rightarrow 3.50 V)
HCT-R-1403-F025-2	March 24, 2014	-Removed the Plots on Page 59

		FCC CERTIFICATION REPORT	www.hct.co.kr
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM. WCDMA. LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625
			2.1. 2020



Table of Contents

1. GENERAL INFORMATION	
2. INTRODUCTION	5
2.1. EUT DESCRIPTION	5
2.2. MEASURING INSTRUMENT CALIBRATION	5
2.3. TEST FACILITY	5
3. DESCRIPTION OF TESTS	6
3.1 ERP/EIRP RADIATED POWER AND RADIATED SPURIOUS EMISSIO	NS 6
3.2 AWS – MOBILE FREQUENCY BLOCKS (1710 – 1755 MHz)	7
3.3 PEAK-AVERAGE RATIO	
3.4 OCCUPIED BANDWIDTH	
3.5 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL	11
3.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	
4. LIST OF TEST EQUIPMENT	
5. SUMMARY OF TEST RESULTS	
5. SUMMARY OF TEST RESULTS 6. SAMPLE CALCULATION	
	15
6. SAMPLE CALCULATION	15 16
6. SAMPLE CALCULATION 7. TEST DATA	
6. SAMPLE CALCULATION 7. TEST DATA 7.1 EQUIVALENT ISOTROPIC RADIATED POWER OUTPUT	
6. SAMPLE CALCULATION 7. TEST DATA 7.1 EQUIVALENT ISOTROPIC RADIATED POWER OUTPUT 7.2 RADIATED SPURIOUS EMISSIONS	
6. SAMPLE CALCULATION 7. TEST DATA 7.1 EQUIVALENT ISOTROPIC RADIATED POWER OUTPUT 7.2 RADIATED SPURIOUS EMISSIONS 7.2.1 RADIATED SPURIOUS EMISSIONS (Band 4)	
6. SAMPLE CALCULATION 7. TEST DATA 7.1 EQUIVALENT ISOTROPIC RADIATED POWER OUTPUT 7.2 RADIATED SPURIOUS EMISSIONS 7.2.1 RADIATED SPURIOUS EMISSIONS (Band 4) 7.3 PEAK-TO-AVERAGE RATIO	
6. SAMPLE CALCULATION 7. TEST DATA 7.1 EQUIVALENT ISOTROPIC RADIATED POWER OUTPUT 7.2 RADIATED SPURIOUS EMISSIONS 7.2.1 RADIATED SPURIOUS EMISSIONS (Band 4) 7.3 PEAK-TO-AVERAGE RATIO 7.4 OCCUPIED BANDWIDTH	
6. SAMPLE CALCULATION 7. TEST DATA 7.1 EQUIVALENT ISOTROPIC RADIATED POWER OUTPUT 7.2 RADIATED SPURIOUS EMISSIONS 7.2.1 RADIATED SPURIOUS EMISSIONS (Band 4) 7.3 PEAK-TO-AVERAGE RATIO 7.4 OCCUPIED BANDWIDTH 7.5 CONDUCTED SPURIOUS EMISSIONS	
 6. SAMPLE CALCULATION	15

FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625
		Page 3 of 76	



MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	LG Electronics MobileComm U.S.A., Inc.		
Address:	1000 Sylvan Avenue, Englewood Cliffs NJ 07632		
FCC ID:	ZNFD625		
Application Type:	Certification		
FCC Classification:	Licensed Portable Transmit	tter Held to Ear (PCE)	
FCC Rule Part(s):	§2 , §27		
EUT Type:	Cellular/PCS GSM, WCDM	A, LTE Phone with Bluetooth/WLAN/NFC	
FCC Model(s):	LG-D625		
Additional FCC Model(s):	LGD625, D625		
Tx Frequency:	1712.5 MHz – 1752.5 MHz	(LTE – Band 4)	
Max. RF Output Power:	Band 4 (1.4 MHz) :	0.587 W (QPSK) (27.69 dBm) 0.582 W (16-QAM) (27.65 dBm)	
	Band 4 (3 MHz) :	0.583 W (QPSK) (27.66 dBm) 0.575 W (16-QAM) (27.60 dBm)	
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Emission Designator(s):	Band 4 (1.4 MHz) : Band 4 (3 MHz) : Band 4 (5 MHz) : Band 4 (10 MHz) : Band 4 (15 MHz) : Band 4 (20 MHz) :	1M09G7D (QPSK) / 1M09W7D (16-QAM) 2M69G7D (QPSK) / 2M70W7D (16-QAM) 4M50G7D (QPSK) / 4M50W7D (16-QAM) 8M96G7D (QPSK) / 8M95W7D (16-QAM) 13M5G7D (QPSK) / 13M5W7D (16-QAM) 17M9G7D (QPSK) / 17M9W7D (16-QAM)	
Date(s) of Tests:	February 15, 2014 ~ March 13, 2014		
Antenna Specification	Manufacturer: acetechnolog Antenna type: Internal ante Peak Gain: Band 4: -3.6 dB	nna	

FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625
		Page 4 of 76	



2. INTRODUCTION

2.1. EUT DESCRIPTION

The LG Electronics MobileComm U.S.A., Inc. LG-D625 Cellular/PCS GSM, WCDMA, LTE(Band 4, 7) Phone with Bluetooth/WLAN/NFC consists of GPRS Class12, EDGE 12, GSM850, GSM1900, WCDMA850, WCDMA1900, HSDPA, HSUPA and DC-HSDPA.

2.2. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

2.3. TEST FACILITY

The Fully-anechoic and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea.

FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625
	•		-



3. DESCRIPTION OF TESTS

3.1 ERP/EIRP RADIATED POWER AND RADIATED SPURIOUS EMISSIONS

Note: ERP(Effective Radiated Power), EIRP(Effective Isotropic Radiated Power)

Test Procedure

Radiated emission measurements are performed in the Fully-anechoic chamber. The equipment under test is placed on a non-conductive table 3-meters away from the receive antenna in accordance with ANSI/TIA-603-C-2004 Clause 2.2.17. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission. The level and position of the maximized emission is recorded with the spectrum analyzer using a positive peak detector.

A half wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The power is calculated by the following formula;

 $P_{d(dBm)} = Pg_{(dBm)} - cable loss_{(dB)} + antenna gain_{(dB)}$

Where: P_d is the dipole equivalent power and P_g is the generator output power into the substitution antenna.

The maximum EIRP is calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration

Radiated spurious emissions

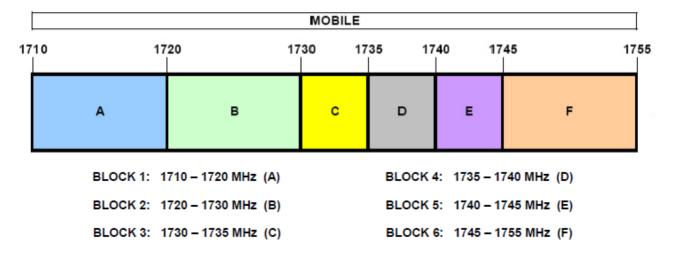
: Frequency Range : 30 MHz ~ 10th Harmonics of highest channel fundamental frequency.

		FCC CERTIFICATION REPORT	www.hct.co.kr
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625



3.2 AWS - MOBILE FREQUENCY BLOCKS (1710 - 1755 MHz)

§27.5(h)



FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCT-R-1403-F025-2	March 24, 2014	Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	ZNFD625
		Dogo 7 of 76	



3.3 PEAK-AVERAGE RATIO.

Test Procedure

Peak to Average Power Ratio is tested in accordance with KDB971168 D01 Power Meas License Digital Systems v02r01, June 7, 2013, Section 5.7.

- Section 5.7.1 CCDF Procedure

- a) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- b) Set the number of counts to a value that stabilizes the measured CCDF curve;
- c) Set the measurement interval as follows:
 - 1) for continuous transmissions, set to 1 ms,
 - 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- d) Record the maximum PAPR level associated with a probability of 0.1%.

- Section 5.7.2 Alternate Procedure

Use one of the procedures presented in 5.1 to measure the total peak power and record as P_{Pk} . Use one of the applicable procedures presented 5.2 to measure the total average power and record as P_{Avg} . Determine the P.A.R. from: P.A.R_(dB) = $P_{Pk (dBm)} - P_{Avg (dBm)}$ (P_{Avg} = Average Power + Duty cycle Factor)

5.1.1 Peak power measurements with a spectrum/signal analyzer or EMI receiver

The following procedure can be used to determine the total peak output power.

- a) Set the RBW \geq OBW.
- b) Set VBW \geq 3 × RBW.
- c) Set span $\ge 2 \times RBW$
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Ensure that the number of measurement points \geq span/RBW.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the peak amplitude level.

		FCC CERTIFICATION REPORT	www.hct.co.kr
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625



5.2.2 Procedures for use with a spectrum/signal analyzer when EUT cannot be configured to transmit continuously and sweep triggering/signal gating cannot be properly implemented

If the EUT cannot be configured to transmit continuously (burst duty cycle < 98%), then one of the following procedures can be used. The selection of the applicable procedure will depend on the characteristics of the measured burst duty cycle.

Measure the burst duty cycle with a spectrum/signal analyzer or EMC receiver can be used in zero-span mode if the response time and spacing between bins on the sweep are sufficient to permit accurate measurement of the burst on/off time of the transmitted signal.

5.2.2.2 Constant burst duty cycle

If the measured burst duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent), then:

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
- c) Set VBW \geq 3 x RBW.
- d) Number of points in sweep ≥ 2 × span / RBW. (This gives bin-to-bin spacing ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
- e) Sweep time = auto.
- f) Detector = RMS (power averaging).
- g) Set sweep trigger to "free run".
- h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
- j) Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).

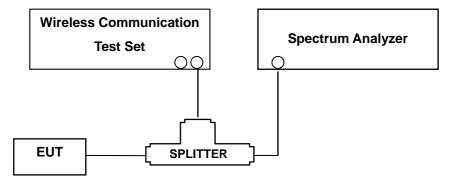
For example, add 10 log (1/0.25) = 6 dB if the duty cycle is a constant 25%.

FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCT-R-1403-F025-2	March 24, 2014	Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	ZNFD625



3.4 OCCUPIED BANDWIDTH.

Test set-up



(Configuration of conducted Emission measurement)

Test Procedure

OBW is tested in accordance with KDB971168 D01 Power Meas License Digital Systems v02r01, June 7, 2013, Section 4.2..

The EUT was setup to maximum output power at its lowest channel. The occupied bandwidth was measured using a spectrum analyzer. The measurements are repeated for the highest and a middle channel. The EUT's occupied bandwidth is measured as the width of the signal between two points, one below the carrier center frequency and one above the carrier frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. Plots of the EUT's occupied bandwidth are shown herein.

FCC CERTIFICATION REPORT			
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625
		Page 10 of 76	



3.5 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL.

Test Procedure

Spurious and harmonic emissions at antenna terminal is tested in accordance with KDB971168 D01 Power Meas License Digital Systems v02r01, June 7, 2013, Section 6.0.

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer.

The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log(P) dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least 30kHz bandwidth may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency

Additionally, for operations in the 776-788MHz band, the power of any emission outside the licensee's frequency band of operation shall be attenuated below the transmitted power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 776-788MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43+10log(P)dB.
- (2) On all frequencies between 763-775 and 793-805MHz, by a factor not less than 65+10log(P)dB in a 6.25kHz band segment.

For operations in the 788–793 MHz band, the power of any emission outside the licensee's frequency bands of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;
- (2) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB

NOTES: The analyzer plot offsets were determined by below conditions.

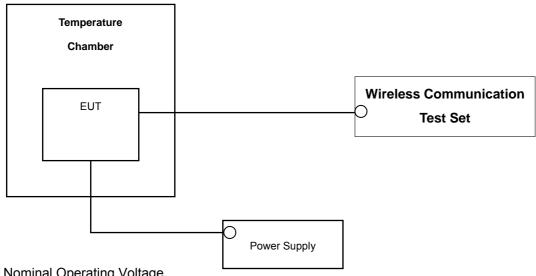
• For LTE Band 4, total offset 27.7 dBm = 30 dBm attenuator + 6 dBm Divider + 1.7 dBm RF cables.

FCC CERTIFICATION REPORT				
Test Report No. HCT-R-1403-F025-2				
	Page 11 of 76			



3.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

Test Set-up



* Nominal Operating Voltage

Test Procedure

Frequency stability is tested in accordance with ANSI/TIA-603-C-2004 section 2.2.2.

The frequency stability of the transmitter is measured by:

a.) Temperature: The temperature is varied from - 30 °C to + 50 °C using an environmental chamber.

b.) Primary Supply Voltage: The primary supply voltage is varied from the end point to 115 % of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Specification - the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ± 0.000 25 %(± 2.5 ppm) of the center frequency.

Time Period and Procedure:

The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).

1. The equipment is turned on in a "standby" condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.

2. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one halfhour is provided to allow stabilization of the equipment at each temperature level.

FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		



4. LIST OF TEST EQUIPMENT

Manufacture	Model/ Equipment	Serial Number	Calibration Interval	Calibration Due
Agilent	E9327A/ Power Sensor	MY4442009	Annual	04/16/2014
MITEQ	AMF-6D-001180-35-20P/AMP	1081666	Annual	09/12/2014
Wainwright	WHK1.2/15G-10EF/H.P.F	2	Annual	04/25/2014
Wainwright	WHK3.3/18G-10EF/H.P.F	1	Annual	04/25/2014
Hewlett Packard	11667B / Power Splitter	11275	Annual	05/13/2014
Digital	EP-3010/ Power Supply	3110117	Annual	10/29/2014
Schwarzbeck	UHAP/ Dipole Antenna	557	Biennial	03/05/2015
Schwarzbeck	UHAP/ Dipole Antenna	558	Biennial	05/03/2015
Korea Engineering	KR-1005L / Chamber	KRAB05063-3CH	Annual	10/30/2014
Schwarzbeck	BBHA 9120D/ Horn Antenna	147	Biennial	05/15/2014
Schwarzbeck	BBHA 9120D/ Horn Antenna	1151	Biennial	10/05/2015
Agilent	E4440A/Spectrum Analyzer	US45303008	Annual	04/25/2014
WEINSCHEL	ATTENUATOR	BR0592	Annual	10/28/2014
REOHDE&SCHWARZ	FSV40/Spectrum Analyzer	1307.9002K40-100931-NK	Annual	06/10/2014
Agilent	8960 (E5515C)/ Base Station	GB45070669	Annual	08/31/2014

FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
	Page 13 of 76				



5. SUMMARY OF TEST RESULTS

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result
2.1049, 27.53	Occupied Bandwidth	N/A		PASS
2.1051, 27.53(h)	Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	< 43 +10 log ₁₀ (P[Watts]) at Band Edge and for all-of-band emissions		PASS
27.50(d)(5)	Peak-Average Ratio	< 13 dB	CONDUCTED	PASS
2.1046	Conducted Output Power	N/A	-	PASS
2.1055, 27.54	Frequency stability / variation of ambient temperature	< 2.5 ppm		PASS
27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	< 1 Watts max. EIRP		PASS
				PASS
2.1053, 27.53(h), 27.53(g)	Undesirable Out-of-Band Emissions	< 43 +10 log ₁₀ (P[Watts]) for all out- of-band emissions	RADIATED	PASS
2.1053,27.53(f)	Undesirable Emissions in the 1559 – 1610 MHz band	< -40dBm/MHz EIRP (wideband) < -50dBm EIRP (narrowband)		PASS

FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2					
	Page 14 of 76				



6. SAMPLE CALCULATION

A. ERP Sample Calculation

	Mode	Ch.	/ Freq.	Measured	Substitude	Ant. Gain		Del	EF	RP
		channel	Freq.(MHz)	Level(dBm)	LEVEL(dBm)	(dBd)	C.L Po	Pol.	w	dBm
	LTE	23230	782	-10.59	37.59	-10.52	1.53	Н	0.358	25.54

ERP = SubstitudeLEVEL(dBm) + Ant. Gain – CL(Cable Loss)

1) The EUT mounted on a wooden tripod is 0.8 meter above test site ground level.

- 2) During the test, the turn table is rotated and the antenna height is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item (3).

6) The signal generator output level with Ant. Gain and cable loss are the rating of effective radiated power (ERP).

B. Emission Designator

QPSK Modulation

5MHz Bandwidth	10MHz Bandwidth
Emission Designator = 4M48G7D	Emission Designator = 8M95G7D
LTE BW = 4.48 MHz	LTE BW = 8.95 MHz
G = Phase Modulation	G = Phase Modulation
7 = Quantized/Digital Info	7 = Quantized/Digital Info
D = Data transmission; telemetry; telecommand	D = Data transmission; telemetry; telecommand

16QAM Modulation

5MHz Bandwidth	10MHz Bandwidth		
Emission Designator = 4M48W7D	Emission Designator = 8M95W7D		
LTE BW = 4.48 MHz	LTE BW = 8.95 MHz		
W = main carrier modulated in a combination of two	W = main carrier modulated in a combination of two		
or more of the following modes;	or more of the following modes;		
amplitude, angle, pulse	amplitude, angle, pulse		
7 = Quantized/Digital Info	7 = Quantized/Digital Info		
D = Data transmission; telemetry; telecommand	D = Data transmission; telemetry; telecommand		

FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
	Page 15 of 76				



7. TEST DATA

7.1 EQUIVALENT ISOTROPIC RADIATED POWER OUTPUT

Freq	Bandwidth	Modulation	Measured	Substitude	Ant.		Pol	EII	RP
(MHz)			Level (dBm)	Level (dBm)	Gain(dBi)			W	dBm
1710.7		QPSK	-13.76	17.82	9.87	1.16	V	0.450	26.53
1710.7		16-QAM	-14.01	17.57	9.87	1.16	V	0.425	26.28
1732.5	1.4 MHz	QPSK	-13.89	17.67	9.90	1.16	V	0.438	26.41
1752.5	1.4 1011 12	16-QAM	-14.20	17.36	9.90	1.16	Н	0.407	26.10
1754 2		QPSK	-12.50	18.85	10.01	1.17	V	0.587	27.69
1754.3		16-QAM	-12.54	18.81	10.01	1.17	Н	0.582	27.65

Effective Radiated Power Data (Band 4 – 1.4 MHz)

Note: Worst case is 1 resource block.

Freq	Bandwidth	Modulation	Measured	Substitude	Ant.	C.L	Pol	EII	RP
(MHz)			Level (dBm)	Level (dBm)	Gain(dBi)			W	dBm
1711.5		QPSK	-13.89	17.68	9.87	1.16	V	0.436	26.39
1711.5		16-QAM	-14.04	17.53	9.87	1.16	Н	0.421	26.24
1732.5	3 MHz	QPSK	-14.29	17.27	9.90	1.16	Н	0.399	26.01
1732.5		16-QAM	-14.19	17.37	9.90	1.16	Н	0.408	26.11
1753 5		QPSK	-12.48	18.82	10.01	1.17	Н	0.583	27.66
1753.5		16-QAM	-12.54	18.76	10.01	1.17	Н	0.575	27.60

Effective Radiated Power Data (Band 4 – 3 MHz)

	FCC CERTIFICATION REPORT							
Test Report No.	Date of Issue:	EUT Type:	FCC ID:					
HCT-R-1403-F025-2	March 24, 2014	Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	ZNFD625					



Freq	Bandwidth	Modulation	Measured	Substitude	Ant.	C.L	Pol	EIRP	
(MHz)			Level (dBm)	Level (dBm)	Gain(dBi)			W	dBm
1712.5		QPSK	-13.82	17.69	9.87	1.16	Н	0.437	26.40
1712.5		16-QAM	-13.89	17.62	9.87	1.16	Н	0.430	26.33
1732.5	5 MHz	QPSK	-13.88	17.68	9.90	1.16	V	0.439	26.42
1732.5		16-QAM	-14.01	17.55	9.90	1.16	V	0.426	26.29
1750 5		QPSK	-12.23	19.07	10.01	1.17	н	0.618	27.91
1752.5		16-QAM	-12.15	19.15	10.01	1.17	Н	0.630	27.99

Effective Radiated Power Data (Band 4 – 5 MHz)

Note: Worst case is 1 resource block.

Freq	Bandwidth	Modulation	Measured	Substitude	Ant.	C.L	Pol	EIF	RP
(MHz)			Level (dBm)	Level (dBm)	Gain(dBi)			w	dBm
1715.0		QPSK	-14.04	17.61	9.87	1.16	V	0.429	26.32
17 15.0		16-QAM	-14.04	17.61	9.87	1.16	Н	0.429	26.32
1732.5	10 MHz	QPSK	-13.88	17.68	9.90	1.16	V	0.439	26.42
1732.3		16-QAM	-13.79	17.77	9.90	1.16	V	0.448	26.51
1750.0	-	QPSK	-12.81	18.49	10.01	1.17	н	0.541	27.33
1750.0		16-QAM	-12.59	18.71	10.01	1.17	Н	0.569	27.55

Effective Radiated Power Data (Band 4 – 10 MHz)

	FCC CERTIFICATION REPORT						
Test Report No.	Date of Issue:	EUT Type:	FCC ID:				
HCT-R-1403-F025-2	March 24, 2014	Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	ZNFD625				



Freq	Bandwidth	Modulation	Measured	Substitude	Ant.	C.L	Pol	EIRP	
(MHz)			Level (dBm)	Level (dBm)	Gain(dBi)			w	dBm
1717.5		QPSK	-13.85	17.81	9.88	1.16	V	0.450	26.53
1717.5		16-QAM	-14.18	17.48	9.88	1.16	V	0.417	26.20
1720 F	15 MHz	QPSK	-13.59	17.97	9.90	1.16	V	0.469	26.71
1732.5		16-QAM	-13.57	17.99	9.90	1.16	V	0.471	26.73
1747.5		QPSK	-13.46	17.90	9.99	1.16	V	0.471	26.73
1747.5		16-QAM	-13.35	18.01	9.99	1.16	V	0.483	26.84

Effective Radiated Power Data (Band 4 - 15 MHz)

Note: Worst case is 1 resource block.

Freq	Bandwidth	Modulation	Measured	Substitude	Ant.	C.L	Pol	EIRP	
(MHz)			Level (dBm)	Level (dBm)	Gain(dBi)			W	dBm
1720.0		QPSK	-13.87	17.69	9.88	1.16	\vee	0.438	26.41
1720.0		16-QAM	-13.90	17.66	9.88	1.16	\vee	0.435	26.38
1720 5	20 MH-	QPSK	-13.16	18.40	9.90	1.16	Н	0.518	27.14
1732.5	20 MHz	16-QAM	-13.22	18.34	9.90	1.16	Н	0.511	27.08
1745.0		QPSK	-14.03	17.38	9.96	1.16	V	0.415	26.18
1745.0		16-QAM	-14.13	17.28	9.96	1.16	Н	0.406	26.08

Effective Radiated Power Data (Band 4 - 20 MHz)

Note: Worst case is 1 resource block.

NOTES:

Effective Radiated Power Output Measurements by Substitution Method

according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a non-conductive styrofoam resin table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer.

A Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the Horn antenna is measured. The difference between the gain of the horn and an isotropic antenna is taken into consideration and the EIRP is recorded.

Also, we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna. The worst case of the EUT is z plane in LTE mode. Also worst case of detecting Antenna is horizontal polarization in LTE mode.

	FCC CERTIFICATION REPORT							
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625					
	Page 18 of 76							



7.2 RADIATED SPURIOUS EMISSIONS 7.2.1 RADIATED SPURIOUS EMISSIONS (Band 4)

OPERATING FREQUENCY :	1732.50 MHz
MEASURED OUTPUT POWER:	27.69 dBm = 0.587 W
MODULATION SIGNAL:	1.4 MHz QPSK
DISTANCE:	<u>3 meters</u>
LIMIT: 43 + 10 log10 (W) =	40.69 dBc

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitude Level (dBm)	C.L	Pol	EIRP (dBm)	dBc
100.55	3421.4	-53.46	12.36	-60.30	1.64	Н	-49.58	77.27
19957 (1710.7)	5132.1	-53.49	12.34	-53.69	2.01	Н	-43.36	71.05
(1710.7)	6842.8	-47.02	12.17	-41.41	2.35	V	-31.59	59.28
	3465.0	-54.71	12.27	-61.24	1.63	V	-50.60	78.29
20175 (1732.5)	5197.5	-	-	-	-	-	-	-
(1102.0)	6930.0	-51.67	11.87	-45.52	2.41	V	-36.06	63.75
	3508.6	-	-	-	-	-	-	-
20393 (1754.3)	5262.9	-54.74	12.91	-56.28	2.03	Н	-45.40	73.09
(1104.0)	7017.2	-48.84	11.59	-41.97	2.38	V	-32.76	60.45

NOTES: <u>1. Radiated Spurious Emission Measurements at 3 meters by Substitution Method</u> according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

	FCC CERTIFICATION REPORT						
Test Report No.	Date of Issue:	EUT Type:	FCC ID:				
HCT-R-1403-F025-2	March 24, 2014	Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	ZNFD625				
Dece 10 of 76							



OPERATING FREQUENCY :	1732.50 MHz
MEASURED OUTPUT POWER:	27.66 dBm = 0.583 W
MODULATION SIGNAL:	3 MHz QPSK
DISTANCE:	<u>3 meters</u>
LIMIT: 43 + 10 log10 (W) =	40.66 dBc

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitude Level (dBm)	C.L	Pol	EIRP (dBm)	dBc
	3423.0	-53.66	12.36	-60.50	1.64	Н	-49.78	77.44
19965 (1711.5)	5134.5	-54.63	12.35	-54.85	2.00	Н	-44.50	72.16
(11110)	6846.0	-48.19	12.16	-42.56	2.36	Н	-32.76	60.42
	3465.0	-55.30	12.27	-61.83	1.63	V	-51.19	78.85
20175 (1732.5)	5197.5	-	-	-	-	-	-	-
(1102.0)	6930.0	-50.35	11.87	-44.20	2.41	V	-34.74	62.40
	3507.0	-55.62	12.15	-61.38	1.67	V	-50.90	78.56
20385 (1753.5)	5260.5	-55.79	12.90	-57.33	2.02	Н	-46.45	74.11
(1100.0)	7014.0	-50.19	11.59	-43.37	2.33	Н	-34.11	61.77

2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

		FCC CERTIFICATION REPORT	www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCT-R-1403-F025-2	March 24, 2014	Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	ZNFD625



OPERATING FREQUENCY :	1732.50 MHz
MEASURED OUTPUT POWER:	27.99 dBm = 0.630 W
MODULATION SIGNAL:	5 MHz 16-QAM
DISTANCE:	<u>3 meters</u>
LIMIT: 43 + 10 log10 (W) =	40.99 dBc

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitude Level (dBm)	C.L	Pol	EIRP (dBm)	dBc
	3425.0	-53.82	12.35	-60.66	1.63	V	-49.94	77.93
19975 (1712.5)	5137.5	-55.11	12.36	-55.35	1.99	Н	-44.98	72.97
(11 1210)	6850.0	-49.34	12.15	-43.70	2.36	Н	-33.91	61.90
	3465.0	-	-	-	-	-	-	-
20175 (1732.5)	5197.5	-	-	-	-	-	-	-
(110210)	6930.0	-50.75	11.87	-44.60	2.41	V	-35.14	63.13
	3505.0	-	-	-	-	-	-	-
20375 (1752.5)	5257.5	-54.97	12.90	-56.42	2.02	Н	-45.54	73.53
(7010.0	-50.65	11.61	-44.05	2.36	Н	-34.80	62.79

2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

		FCC CERTIFICATION REPORT	www.hct.co.kr
Test Report No.	Date of Issue:	EUT Type:	FCC ID:
HCT-R-1403-F025-2	March 24, 2014	Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	ZNFD625



OPERATING FREQUENCY :	1732.50 MHz
MEASURED OUTPUT POWER:	27.55 dBm = 0.569 W
MODULATION SIGNAL:	10 MHz 16-QAM
DISTANCE:	<u>3 meters</u>
LIMIT: 43 + 10 log10 (W) =	40.55 dBc

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitude Level (dBm)	C.L	Pol	EIRP (dBm)	dBc
	3430.0	-53.82	12.34	-60.91	1.63	V	-50.20	77.75
20000 (1715.0)	5145.0	-55.79	12.38	-55.95	1.97	Н	-45.54	73.09
(1110.0)	6860.0	-49.33	12.11	-43.89	2.38	V	-34.16	61.71
	3465.0	-55.35	12.27	-61.88	1.63	Н	-51.24	78.79
20175 (1732.5)	5197.5	-	-	-	-	-	-	-
(1102.0)	6930.0	-51.00	11.87	-44.85	2.41	V	-35.39	62.94
	3500.0	-	-	-	-	-	-	-
20350 (1750.0)	5250.0	-	-	-	-	-	-	-
(1100.0)	7000.0	-51.11	11.65	-44.43	2.39	V	-35.17	62.72

2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

		FCC CERTIFICATION REPORT	www.hct.co.kr
Test Report No.	Date of Issue:		FCC ID:
HCT-R-1403-F025-2	March 24, 2014	Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	ZNFD625



OPERATING FREQUENCY :	1732.50 MHz
MEASURED OUTPUT POWER:	26.84 dBm = 0.483 W
MODULATION SIGNAL:	15 MHz 16-QAM
DISTANCE:	<u>3 meters</u>
LIMIT: 43 + 10 log10 (W) =	<u>39.84 dBc</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitude Level (dBm)	C.L	Pol	EIRP (dBm)	dBc
	3435.0	-53.36	12.34	-60.17	1.63	Н	-49.46	76.30
20025 (1717.5)	5152.5	-54.23	12.40	-54.42	1.96	Н	-43.98	70.82
(1111.0)	6870.0	-46.40	12.08	-41.20	2.36	Н	-31.48	58.32
	3465.0	-	-	-	-	-	-	-
20175 (1732.5)	5197.5	-	-	-	-	-	-	-
(1102.0)	6930.0	-51.22	11.87	-45.07	2.41	V	-35.61	62.45
	3495.0	-53.81	12.17	-59.85	1.65	Н	-49.33	76.17
20325 (1747.5)	5242.5	-	-	-	-	-	-	-
(1141.0)	6990.0	-51.20	11.68	-43.88	2.38	V	-34.58	61.42

2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

		FCC CERTIFICATION REPORT	www.hct.co.kr
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM. WCDMA. LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625
1101-11-1403-1 023-2	Walch 24, 2014		ZINI DOZJ



OPERATING FREQUENCY :	1732.50 MHz
MEASURED OUTPUT POWER:	27.14 dBm = 0.518 W
MODULATION SIGNAL:	20 MHz QPSK
DISTANCE:	<u>3 meters</u>
LIMIT: 43 + 10 log10 (W) =	<u>40.14 dBc</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitude Level (dBm)	C.L	Pol	EIRP (dBm)	dBc
	3440.0	-53.36	12.33	-60.15	1.64	Н	-49.46	76.60
20050 (1720.0)	5160.0	-55.07	12.44	-55.41	1.98	н	-44.95	72.09
(1120.0)	6880.0	-48.53	12.04	-43.44	2.37	V	-33.77	60.91
	3465.0	-	-	-	-	-	-	-
20175 (1732.5)	5197.5	-	-	-	-	-	-	-
(1102.0)	6930.0	-50.08	11.87	-43.93	2.41	Н	-34.47	61.61
	3490.0	-	-	-	-	-	-	-
20300 (1745.0)	5235.0	-	-	-	-	-	-	-
(1110.0)	6980.0	-48.65	11.71	-41.78	2.37	Н	-32.44	59.58

2. We are performed all frequency to 10th harmonics from 30 MHz. Measurements above show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin > 20 dB from the applicable limit) and considered that's already beyond the background noise floor.

3. we have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.

FCC CERTIFICATION REPORT								
Test Report No.	Date of Issue:	EUT Type:	FCC ID:					
HCT-R-1403-F025-2	March 24, 2014	Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	ZNFD625					



7.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
	1.4 MHz	1732.5	QPSK	6	0	5.55
	1.4 M⊓Z	1732.5	16-QAM	6	0	5.55
	2 MU-	1722 5	QPSK	15	0	5.57
	3 MHz	1732.5	16-QAM	15	0	6.14
	5.44	lz 1732.5	QPSK	25	0	5.55
Band 4	5 MHz		16-QAM	25	0	5.99
Danu 4	10 MHz	4700 5	QPSK	50	0	5.59
		1732.5	16-QAM	50	0	6.07
		1722 5	QPSK	75	0	5.47
15 MH	15 MHz	1732.5	16-QAM	75	0	5.92
	20 MH-	1700 5	QPSK	100	0	5.46
	20 MHz	1732.5	16-QAM	100	0	6.02

- Plots of the EUT's Peak- to- Average Ratio are shown Page 41 ~ 46

FCC CERTIFICATION REPORT							
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625				
	Page 25 of 76						



7.4 OCCUPIED BANDWIDTH

Band	Band Width (MHz)	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
	1.4	1732.5	QPSK	6	0	1.0870
	1.4	1732.5	16-QAM	6	0	1.0857
	3	1732.5	QPSK	15	0	2.6899
	5	1732.5	16-QAM	15	0	2.6975
		1732.5	QPSK	25	0	4.4989
Band 4	5		16-QAM	25	0	4.4979
Danu 4	10	1700 5	QPSK	50	0	8.9604
	10	1732.5	16-QAM	50	0	8.9523
	15	1732.5	QPSK	75	0	13.4870
	10	1752.5	16-QAM	75	0	13.4610
	20	1720 F	QPSK	100	0	17.9110
	20	1732.5	16-QAM	100	0	17.9260

- Plots of the EUT's Occupied Bandwidth are shown Page 35 ~ 40.

FCC CERTIFICATION REPORT							
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625				
	Page 26 of 76						



7.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Frequency of Maximum Harmonic (GHz)	Maximum Data [dBm]
		1710.7		1	0	6.758620	-25.93
	1.4	1732.5		1	0	6.997900	-25.79
		1754.3		1	0	6.959380	-25.79
		1711.5		1	0	7.849880	-25.78
	3	1732.5		1	0	6.998350	-24.90
		1753.5		1	0	9.513060	-25.87
		1712.5	QPSK	1	0	5.430340	-25.47
	5	1732.5		1	0	6.994270	-25.78
Band 4		1752.5		1	0	6.999710	-25.48
Danu 4		1715.0		1	0	6.401510	-25.50
	10	1732.5		1	0	6.566010	-25.14
		1750.0		1	0	6.995630	-25.03
		1717.5		1	0	6.972070	-24.87
	15	1732.5		1	0	6.987020	-24.85
		1747.5		1	0	6.961640	-25.39
		1720.0		1	0	6.964360	-24.85
	20	1732.5	ŀ	5 1 0 6.979320		6.979320	-24.38
		1745.0		1	0	6.986570	-23.87

- Plots of the EUT's Conducted Spurious Emissions are shown Page 59~ 76

7.5.1 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 47 ~ 58

FCC CERTIFICATION REPORT							
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625				
	Page 27 of 76						



7.6 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE 7.6.1 FREQUENCY STABILITY (LTE Band 4)

OPERATING FREQUENCY:

CHANNEL:

20175 (1.4 MHz)

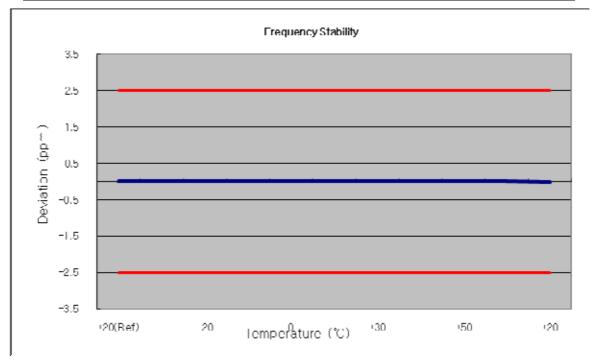
REFERENCE VOLTAGE:

3.8 VDC

1732,500,000 Hz

DEVIATION LIM IT:

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	()	(Hz)	Error (Hz)	(%)	ppm
100%		+20(Ref)	1732 500 011	0	0.000 000	0.000
100%		-30	1732 500 007	-4.40	0.000 000	-0.003
100%		-20	1732 500 012	1.00	0.000 000	0.001
100%		-10	1732 500 008	-3.40	0.000 000	-0.002
100%	3.80	0	1732 500 007	-4.70	0.000 000	-0.003
100%		+10	1732 500 005	-6.40	0.000 000	-0.004
100%		+30	1732 500 008	-3.70	0.000 000	-0.002
100%		+40	1732 500 005	-6.90	0.000 000	-0.004
100%		+50	1732 500 008	-3.30	0.000 000	-0.002
115%	4.37	+20	1732 500 010	-1.30	0.000 000	-0.001
85%	3.50	+20	1732 500 001	-10.30	-0.000 001	-0.006



FCC CERTIFICATION REPORT							
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625				
	Page 28 of 76						

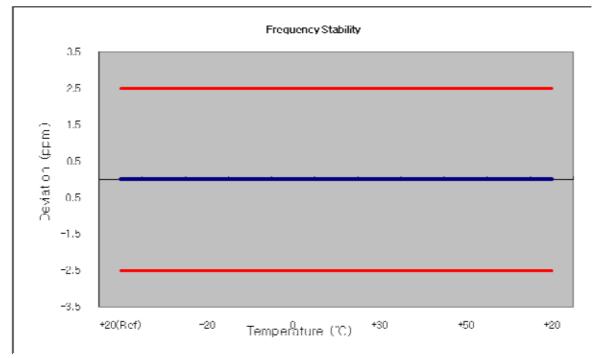


OPERATING FREQUENCY: 1732,500,000 Hz CHANNEL: 20175 (3 MHz) REFERENCE VOLTAGE: 3.8 VDC

DEVIATION LIM IT:

<u>± 0.000 25 % or 2.5 ppm</u>

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	()	(Hz)	Error (Hz)	(%)	ppm
100%		+20(Ref)	1732 499 998	0	0.000 000	0.000
100%		-30	1732 500 006	7.10	0.000 000	0.004
100%		-20	1732 500 003	4.20	0.000 000	0.002
100%		-10	1732 499 998	-0.40	0.000 000	0.000
100%	3.80	0	1732 499 997	-1.70	0.000 000	-0.001
100%		+10	1732 500 004	5.70	0.000 000	0.003
100%		+30	1732 500 003	4.70	0.000 000	0.003
100%		+40	1732 500 002	3.10	0.000 000	0.002
100%		+50	1732 499 999	1.00	0.000 000	0.001
115%	4.37	+20	1732 500 003	5.00	0.000 000	0.003
85%	3.50	+20	1732 499 997	-1.30	0.000 000	-0.001



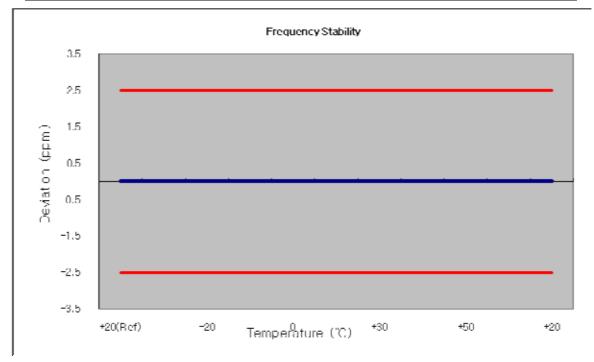
	FCC CERTIFICATION REPORT			
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625	
		Page 29 of 76	•	



OPERATING FREQUENCY: 1732,500,000 Hz CHANNEL: 20175 (5 MHz) REFERENCE VOLTAGE: 3.8 VDC

DEVIATION LIM IT:

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	()	(Hz)	Error (Hz)	(%)	ppm
100%		+20(Ref)	1732 499 997	0	0.000 000	0.000
100%		-30	1732 499 999	2.50	0.000 000	0.001
100%		-20	1732 499 994	-2.70	0.000 000	-0.002
100%	3.80	-10	1732 499 999	2.40	0.000 000	0.001
100%		0	1732 500 006	9.00	0.000 001	0.005
100%		+10	1732 499 989	-7.80	0.000 000	-0.005
100%		+30	1732 500 002	4.80	0.000 000	0.003
100%		+40	1732 500 001	4.40	0.000 000	0.003
100%		+50	1732 499 999	2.20	0.000 000	0.001
115%	4.37	+20	1732 499 992	-5.20	0.000 000	-0.003
85%	3.50	+20	1732 499 994	-2.40	0.000 000	-0.001



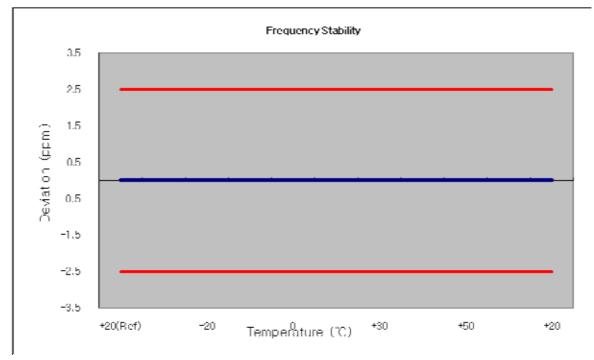
	FCC CERTIFICATION REPORT				
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
		Page 30 of 76			



OPERATING FREQUENCY: 1732,500,000 Hz CHANNEL: 20175 (10 MHz) REFERENCE VOLTAGE: 3.8 VDC

DEVIATION LIM IT:

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	()	(Hz)	Error (Hz)	(%)	ppm
100%		+20(Ref)	1732 499 995	0	0.000 000	0.000
100%		-30	1732 499 997	2.40	0.000 000	0.001
100%		-20	1732 499 999	4.60	0.000 000	0.003
100%		-10	1732 499 996	1.70	0.000 000	0.001
100%	3.80	0	1732 500 002	7.00	0.000 000	0.004
100%		+10	1732 499 999	3.90	0.000 000	0.002
100%		+30	1732 499 996	0.80	0.000 000	0.000
100%		+40	1732 499 993	-2.20	0.000 000	-0.001
100%		+50	1732 500 000	5.20	0.000 000	0.003
115%	4.37	+20	1732 499 996	1.00	0.000 000	0.001
85%	3.50	+20	1732 500 001	6.20	0.000 000	0.004



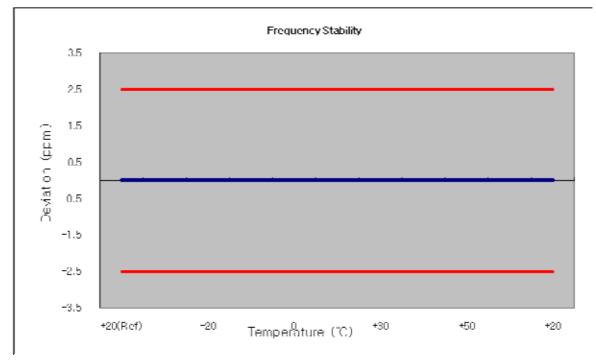
FCC CERTIFICATION REPORT				
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625	
		Page 31 of 76		



OPERATING FREQUENCY: 1732,500,000 Hz CHANNEL: 20175 (15 MHz) REFERENCE VOLTAGE: 3.8 VDC

DEVIATION LIM IT:

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	()	(Hz)	Error (Hz)	(%)	ppm
100%		+20(Ref)	1732 499 999	0	0.000 000	0.000
100%		-30	1732 499 999	0.10	0.000 000	0.000
100%		-20	1732 500 007	8.70	0.000 001	0.005
100%		-10	1732 499 996	-2.40	0.000 000	-0.001
100%	3.80	0	1732 500 006	7.80	0.000 000	0.005
100%		+10	1732 499 998	-0.10	0.000 000	0.000
100%		+30	1732 500 003	4.70	0.000 000	0.003
100%		+40	1732 499 996	-2.50	0.000 000	-0.001
100%		+50	1732 499 997	-1.10	0.000 000	-0.001
115%	4.37	+20	1732 500 004	5.60	0.000 000	0.003
85%	3.50	+20	1732 499 993	-5.80	0.000 000	-0.003



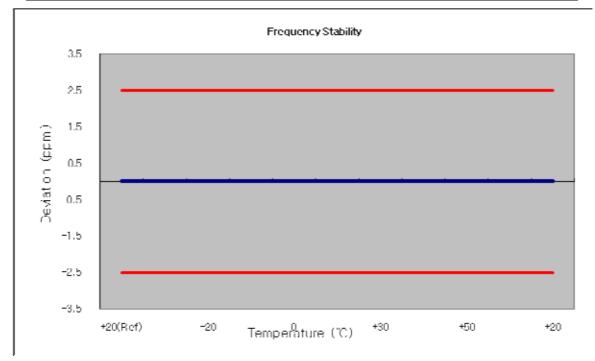
	FCC CERTIFICATION REPORT			
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM. WCDMA. LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625	
101-10-1403-1-023-2		Page 32 of 76	2111 2023	



OPERATING FREQUENCY: 1732,500,000 Hz CHANNEL: 20175 (20 MHz) REFERENCE VOLTAGE: 3.8 VDC

DEVIATION LIM IT:

Voltage	Power	Temp.	Frequency	Frequency	Deviation	
(%)	(VDC)	()	(Hz)	Error (Hz)	(%)	ppm
100%		+20(Ref)	1732 499 990	0	0.000 000	0.000
100%		-30	1732 499 997	7.70	0.000 000	0.004
100%		-20	1732 499 989	-0.60	0.000 000	0.000
100%		-10	1732 499 990	0.40	0.000 000	0.000
100%	3.80	0	1732 499 995	5.20	0.000 000	0.003
100%		+10	1732 499 991	1.30	0.000 000	0.001
100%		+30	1732 499 986	-3.90	0.000 000	-0.002
100%		+40	1732 499 992	2.40	0.000 000	0.001
100%		+50	1732 499 996	6.00	0.000 000	0.003
115%	4.37	+20	1732 499 994	4.50	0.000 000	0.003
85%	3.50	+20	1732 499 991	0.90	0.000 000	0.001



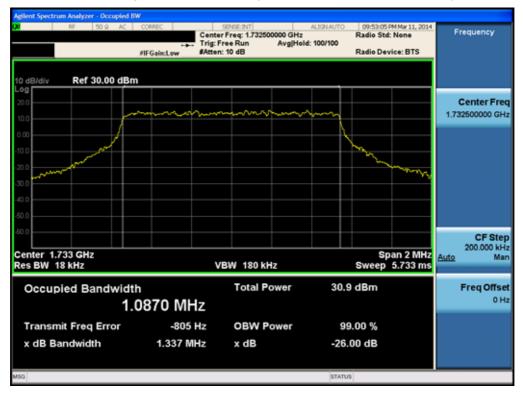
	FCC CERTIFICATION REPORT			
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625	
	• •	Page 33 of 76	•	



8. TEST PLOTS

	FCC CERTIFICATION REPORT			
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM. WCDMA. LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625	





Occupied Bandwidth Plot (1.4M BW Ch.20175 QPSK RB 6)

Occupied Bandwidth Plot (1	1.4M BW Ch.20175 16QAM RB 6)
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	FCC CERTIFICATION REPORT				
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
	Page 35 of 76				



09:51:58 PM Mar 11, 2014 Radio Std: None Center Freq: 1.732500000 GHz Trig: Free Run Avg|Hold: 100/100 #IFGain:Low #Atten: 10 dB Frequency Radio Device: BTS Ref 30.00 dBm Center Freq 1.732500000 GHz m.s CF Step 500.000 kHz Man Span 5 MHz Sweep 2.133 ms Center 1.733 GHz Res BW 47 kHz Auto VBW 470 kHz Total Power Occupied Bandwidth 31.3 dBm Freq Offset 0 Hz 2.6899 MHz **OBW Power** Transmit Freq Error 2.648 kHz 99.00 % x dB Bandwidth 3.031 MHz x dB -26.00 dB STATUS

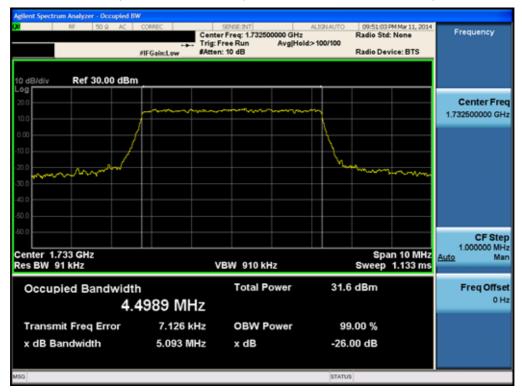
Occupied Bandwidth Plot (3M BW Ch.20175 QPSK RB 15)

Agilent Spectrum Analyzer - Occupied BV	CORREC	SENSE:INT Center Freg: 1.7325		ALIGNAUTO	09:52:13 P	MMar 11, 2014	Frequency	,
	Trig: Free Run Avg Hold: 100/100 #Atten: 10 dB		100/100	Radio Device: BTS				
10 dB/div Ref 30.00 dBm								
20.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~			Center I 1.732500000	
0.00								
20.0					and the second	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
-40.0								
60.0							CF \$ 500.000	
Center 1.733 GHz Span 5 MHz Res BW 47 kHz Sweep 2.133 ms						Auto	Man	
Occupied Bandwidth Total Power 30.5 dBm 2.6975 MHz					Freq O	ffset 0 Hz		
Transmit Freq Error -1.016 k		z OBW Power		99	99.00 %			
x dB Bandwidth 3.082 M		lz xdB		-26.00 dB				
MSG				STATU	5			-

Occupied Bandwidth Plot (3M BW Ch.20175 16QAM RB 15)

FCC CERTIFICATION REPORT						
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625			
Page 36 of 76						





Occupied Bandwidth Plot (5M BW Ch.20175 QPSK RB 25)

N RF 50 Q AC		SENSE 2017 Center Freq: 1.7325 Trig: Free Run #Atten: 10 dB		Radi 0/100	51:10 PM Mar 11, 2014 o Std: None o Device: BTS	Frequency
10 dB/div Ref 30.00 dBn	n					
20.0 10.0	,					Center Freq 1.732500000 GHz
0.00 -10.0	/					
20.0				manan	mann	
40.0						
60.0						CF Step 1.000000 MHz
Center 1.733 GHz Res BW 91 kHz		VBW 910 k	Hz	Swe	Span 10 MHz ep 1.133 ms	<u>Auto</u> Man
Occupied Bandwidt 4.	^ь 4979 MH	Total P	ower	30.7 dBr	n	Freq Offset 0 Hz
Transmit Freq Error	4.280 kl	Hz OBW F	ower	99.00	%	
x dB Bandwidth	5.018 MI	Hz xdB		-26.00 d	В	
150				STATUS		

Occupied Bandwidth Plot (5M BW Ch.20175 16QAM RB 25)

FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1403-F025-2			FCC ID: ZNFD625
		Page 37 of 76	



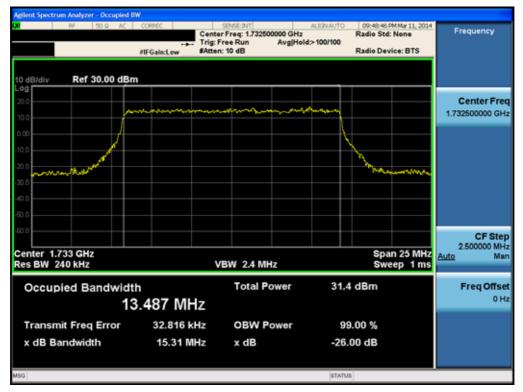
Occupi 09:49:53 PM Mar 11, 2014 Radio Std: None Center Freq: 1.732500000 GHz Trig: Free Run Avg[Hold: 100/100 #IFGain:Low #Atten: 10 dB ALIGNAUTO Frequency Radio Device: BTS Ref 30.00 dBm **Center Freq** 1.732500000 GHz CF Step 1.500000 MHz Center 1.733 GHz Res BW 150 kHz Span 15 MHz Sweep 1 ms Auto Man VBW 1.5 MHz Total Power 31.6 dBm Freq Offset Occupied Bandwidth 0 Hz 8.9604 MHz Transmit Freq Error 13.194 kHz **OBW Power** 99.00 % x dB Bandwidth 9.916 MHz x dB -26.00 dB STATUS

Occupied Bandwidth Plot (10M BW Ch.20175 QPSK RB 50)



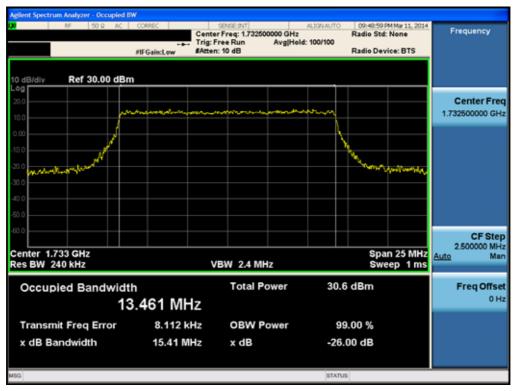
FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625
		Page 38 of 76	





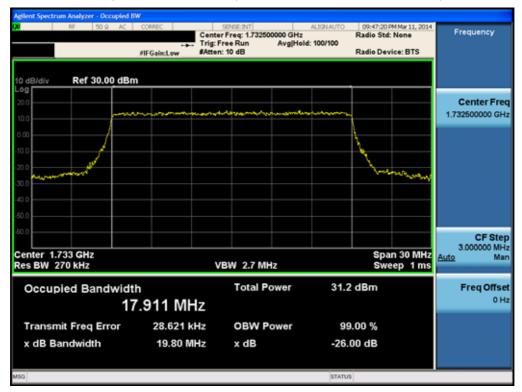
Occupied Bandwidth Plot (15M BW Ch.20175 QPSK RB 75)

Occupied Bandwidth Plot (15M BW Ch.20175 16QAM RB 75)



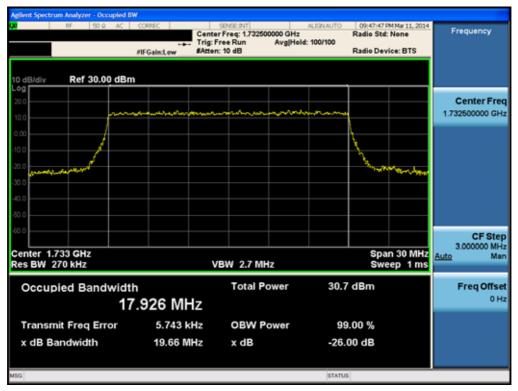
FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625
		Page 39 of 76	





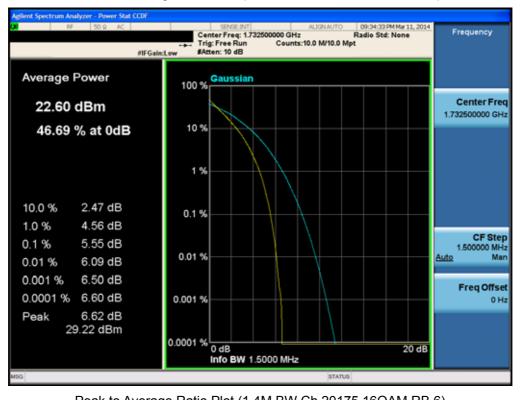
Occupied Bandwidth Plot (20M BW Ch.20175 QPSK RB 100)

Occupied Bandwidth Plot (20M BW Ch.20175 16QAM RB 100)



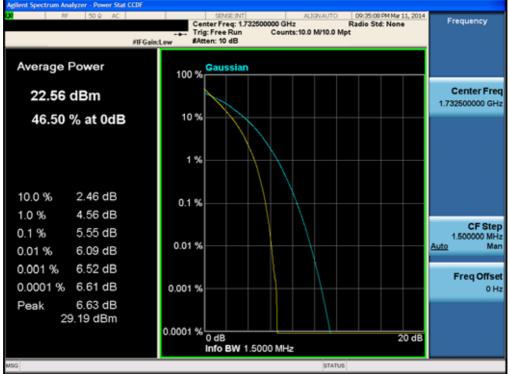
FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625
		Page 40 of 76	





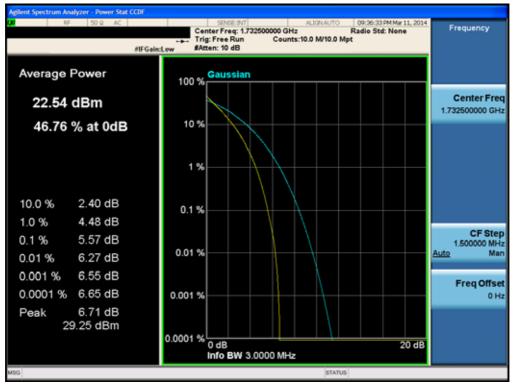
Peak to Average Ratio Plot (1.4M BW Ch.20175 QPSK RB 6)

Peak to P	Average Ratio Pic	ot (1.4101 BVV	Cn.20175	IOQAIVI RB 6)	



FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625
		Page 41 of 76	

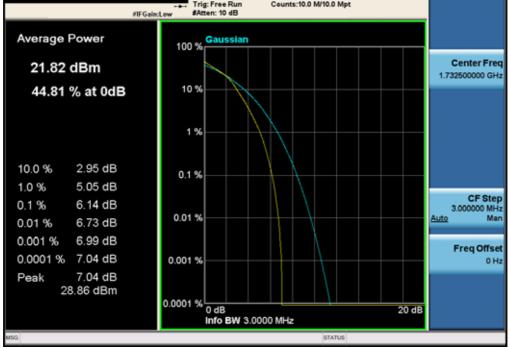




Peak to Average Ratio Plot (3M BW Ch.20175 QPSK RB 15)

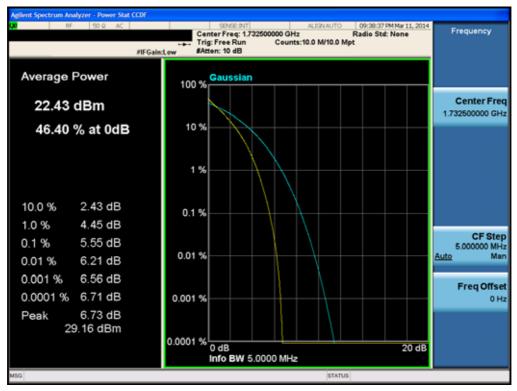


Peak to Average Ratio Plot (3M BW Ch.20175 16QAM RB 15)

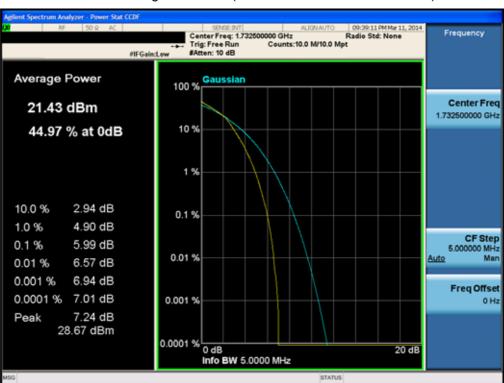


FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625
		Page 42 of 76	





Peak to Average Ratio Plot (5M BW Ch.20175 QPSK RB 25)



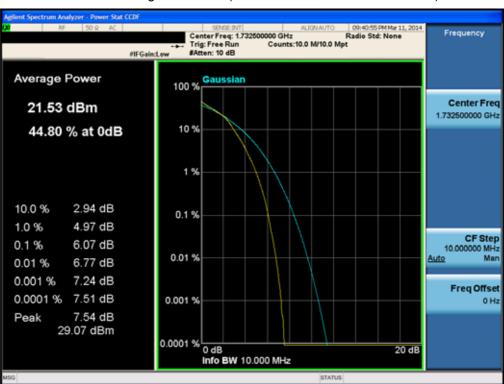
Peak to Average Ratio Plot (5M BW Ch.20175 16QAM RB 25)

FCC CERTIFICATION REPORT			www.hct.co.kr
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625
		Page 43 of 76	





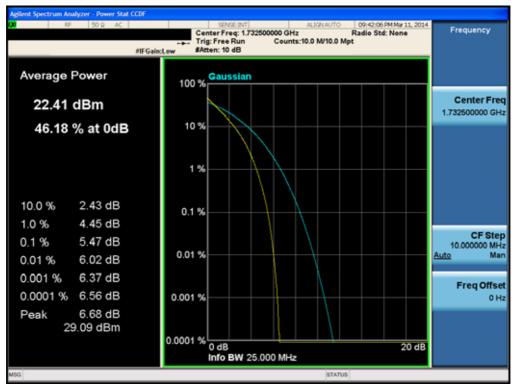
Peak to Average Ratio Plot (10M BW Ch.20175 QPSK RB 50)



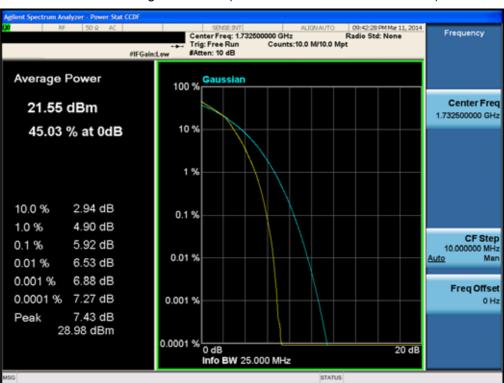
Peak to Average Ratio Plot (10M BW Ch.20175 16QAM RB 50)

	FCC CERTIFICATION REPORT				
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
	Page 44 of 76				





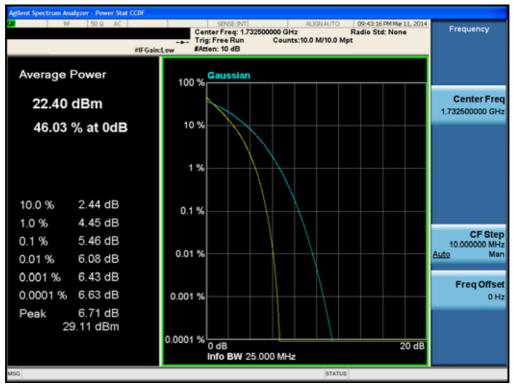
Peak to Average Ratio Plot (15M BW Ch.20175 QPSK RB 75)



Peak to Average Ratio Plot (15M BW Ch.20175 16QAM RB 75)

	FCC CERTIFICATION REPORT				
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
	Page 45 of 76				





Peak to Average Ratio Plot (20M BW Ch.20175 QPSK RB 100)



Peak to Average Ratio Plot (20M BW Ch.20175 16QAM RB 100)

FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
	Page 46 of 76				

STATUS





Lower Band Edge Plot (1.4M BW Ch.19957 QPSK RB 1, Offset 0) -1

Lower Band Edge Plot (1.4M BW Ch.19957 QPSK RB 6) -2



FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
	Page 47 of 76				





Upper Band Edge Plot (1.4M BW Ch.20393 QPSK RB 1, Offset 5) -1

Upper Band Edge Plot (1.4M BW Ch.20393 QPSK RB 6) -2



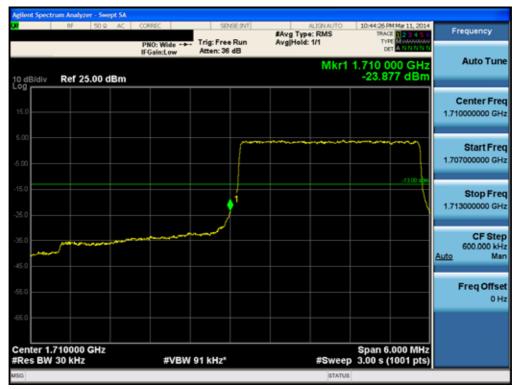
FCC CERTIFICATION REPORT			www.hct.co.kr		
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
	Page 48 of 76				





Lower Band Edge Plot (3M BW Ch.19965 QPSK RB 1, Offset 0) -1

Lower Band Edge Plot (3M BW Ch.19965 QPSK RB 15) -2



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Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
	Page 49 of 76				





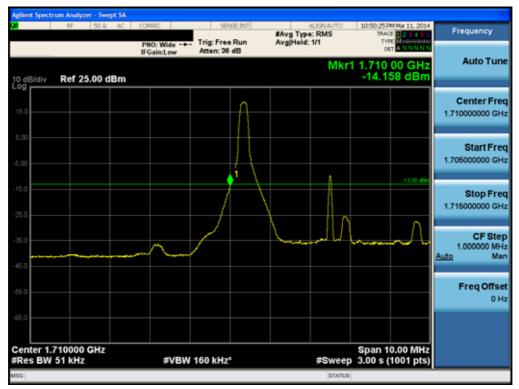
Upper Band Edge Plot (3M BW Ch.20385 QPSK RB 1, Offset 14) -1

Upper Band Edge Plot (3M BW Ch.20385 QPSK RB 15) -2



FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
	Page 50 of 76				





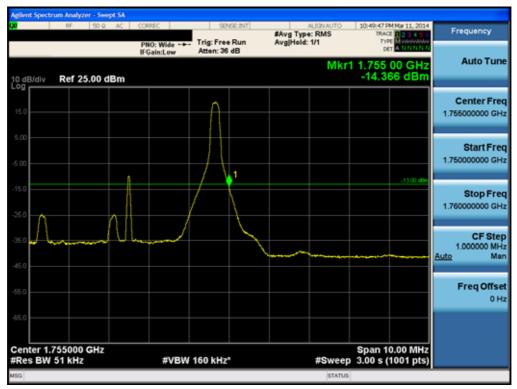
Lower Band Edge Plot (5M BW Ch.19975 QPSK RB 1, Offset 0) -1

Lower Band Edge Plot (5M BW Ch.19975 QPSK RB 25) -2



	FCC CERTIFICATION REPORT				
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
	Page 51 of 76				





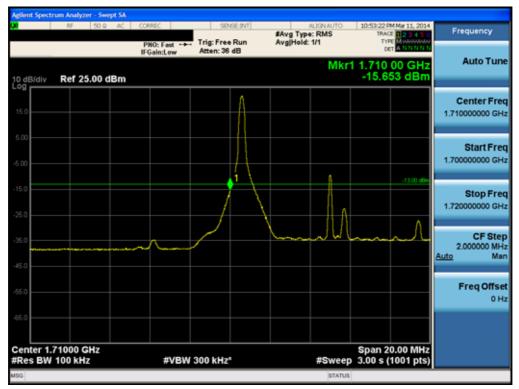
Upper Band Edge Plot (5M BW Ch.20375 QPSK RB 1, Offset 24) -1

Upper Band Edge Plot (5M BW Ch.20375 QPSK RB 25) -2



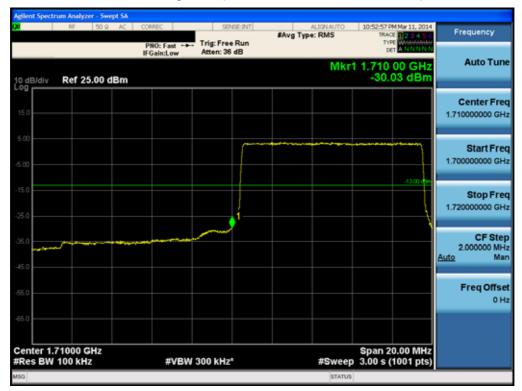
	FCC CERTIFICATION REPORT				
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
	Page 52 of 76				





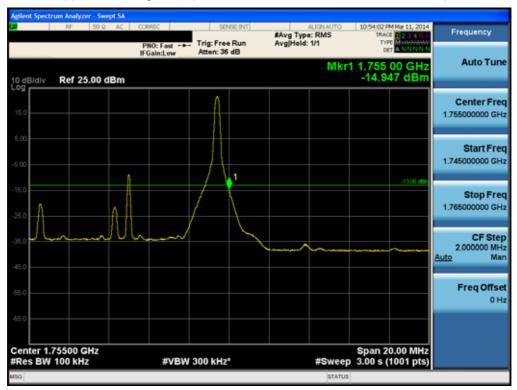
Lower Band Edge Plot (10M BW Ch.20000 QPSK RB 1, Offset 0) -1

Lower Band Edge Plot (10M BW Ch.20000 QPSK RB 50) -2



	FCC CERTIFICATION REPORT				
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
	Page 53 of 76				





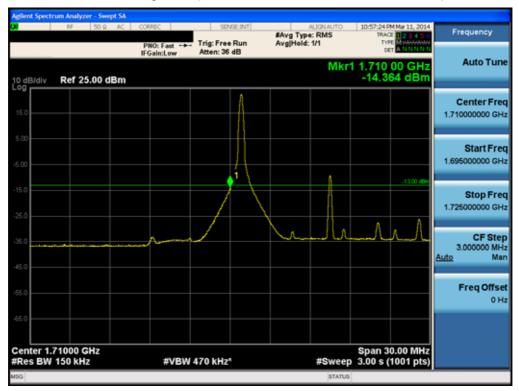
Upper Band Edge Plot (10M BW Ch.20350 QPSK RB 1, Offset 49) -1

Upper Band Edge Plot (10M BW Ch.20350 QPSK RB 50) -2



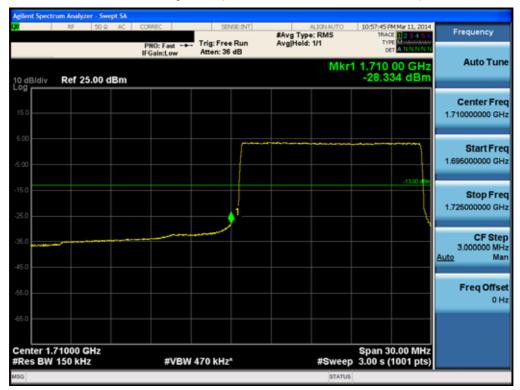
FCC CERTIFICATION REPORT			www.hct.co.kr		
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
	Page 54 of 76				





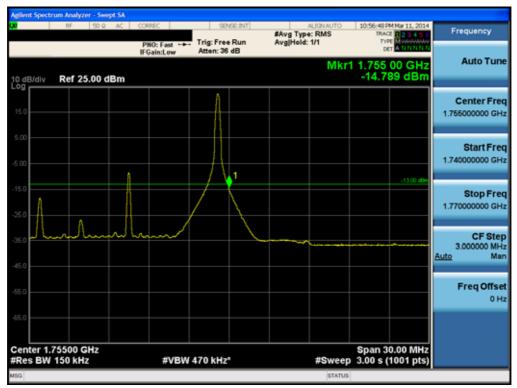
Lower Band Edge Plot (15M BW Ch.20025 QPSK RB 1, Offset 0) -1

Lower Band Edge Plot (15M BW Ch.20025 QPSK RB 75) -2



FCC CERTIFICATION REPORT			www.hct.co.kr		
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
	Page 55 of 76				





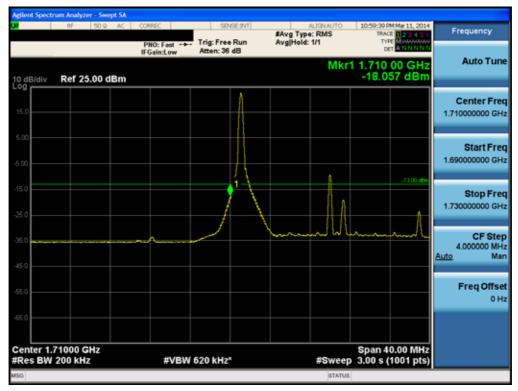
Upper Band Edge Plot (15M BW Ch.20325 QPSK RB 1, Offset 74) -1

Upper Band Edge Plot (15M BW Ch.20325 QPSK RB 75) -2



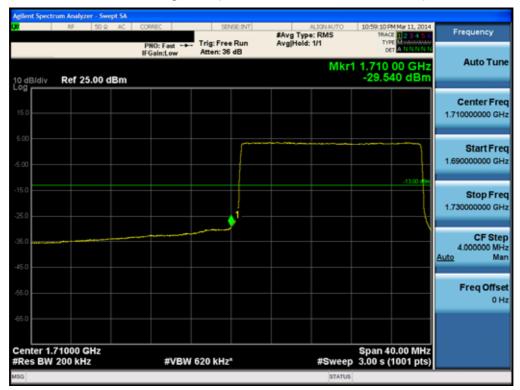
	FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625			
	Page 56 of 76					





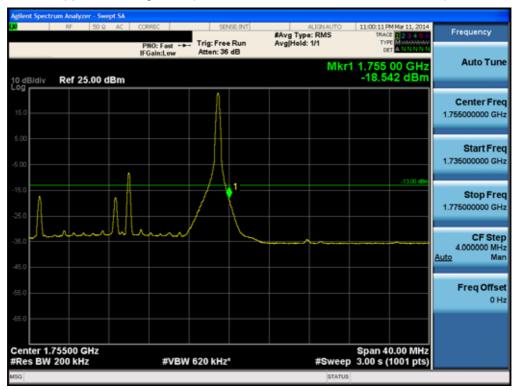
Lower Band Edge Plot (20M BW Ch.20050 QPSK RB 1, Offset 0) -1

Lower Band Edge Plot (20M BW Ch.20050 QPSK RB 100) -2



FCC CERTIFICATION REPORT						
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625			
	Page 57 of 76					





Upper Band Edge Plot (20M BW Ch.20300 QPSK RB 1, Offset 99) -1

Upper Band Edge Plot (20M BW Ch.20300 QPSK RB 100) -2



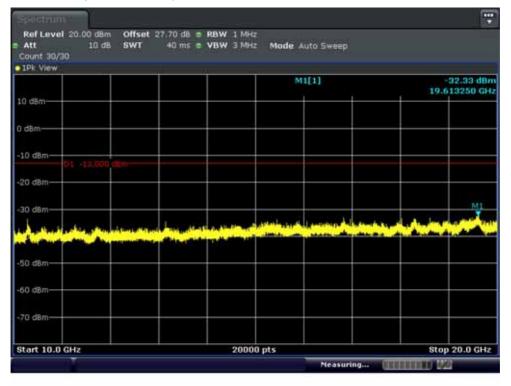
FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
		Page 58 of 76			



Band 4: Conducted Spurious Plot 1 (1.4MHz QPSK - RB Size 1, RB Offset 0 - Low Band 4: Channel)

Splictnim							
Ref Level 35.00 dBm Att 20 dB Count 30/30		VBW 3 MHz		uto Sweep			
1Pk View							
30 d&m			M	1[1]			25.93 dBn 58620 GHa
20 dBm							
10 dBm							
0 dBm							
-10 dBm-01 -13.000	din						
-20 dBm				M1			
-30 dBm	Statute all states and states and			the local date		Sec. In the	add on the
Hangeland Handland	And and a state of the second s						
50 dBm							
-60 dBm							
Start 30.0 MHz		22000	pts			Stop	10.0 GHz
				Measuri	ng		

Band 4: Conducted Spurious Plot 2 (1.4MHz QPSK - RB Size 1, RB Offset 0 - Low Band 4: Channel)



FCC CERTIFICATION REPORT						
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625			
	Page 59 of 76					



Band 4: Conducted Spurious Plot 1 (1.4MHz QPSK - RB Size 1, RB Offset 0 - Mid Band 4: Channel)

Spectrum										
Ref Level Att Count 30/3	20	18m Off			BW 1 MH BW 3 MH		uto Sweep			
1Pk View										
30.d8m	_					M	1[1]			25.79 dBm 97900 GHz
20 dBm			_							
10 dBm										
0 dBm										
-10 d8m	oi iac	ioo diim	_							
-20 dBm			_	_			M	1		
-30 dBm	-	a la presenta	(Land Linear)						transfer to	
40 dBm										
-50 dBm				_						
-60 dBm										
Start 30.0 M	HHZ				2200	0 pts			Stop	10.0 GHz
	7					54	Measuri	ng 🛄	111110 14	1

Band 4: Conducted Spurious Plot 2 (1.4MHz QPSK - RB Size 1, RB Offset 0 - Mid Band 4: Channel)



	FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625			
	, ,	Page 60 of 76				



Band 4: Conducted Spurious Plot 1 (1.4MHz QPSK - RB Size 1, RB Offset 0 - High Band 4: Channel)

1Pk View		M1[1]	 -25.79 dBr
30 dBm	+	matri	6.959380 GH
20 dBm			
0 dBm			
dBm			
10 dBm-01 -13 000 dBm-			
20 dBm		M	
30 dBm	an distant distant distant distant		Nie de la companya
40 taBm			
50 dBm			
60 dBm			
Start 30.0 MHz	2200	0 pts	Stop 10.0 GHz

Band 4: Conducted Spurious Plot 2 (1.4MHz QPSK - RB Size 1, RB Offset 0 - High Band 4: Channel)



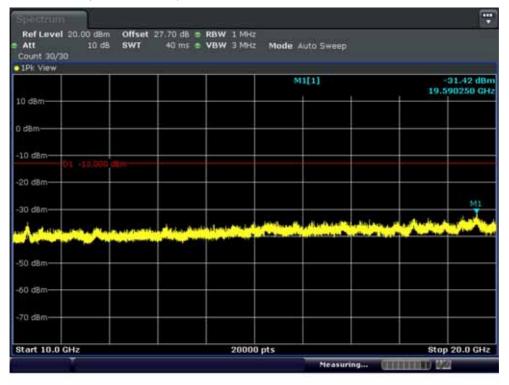
	FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM. WCDMA. LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625			
	, ,	Page 61 of 76				



Band 4: Conducted Spurious Plot 1 (3MHz QPSK - RB Size 1, RB Offset 0 - Low Band 4: Channel)



Band 4: Conducted Spurious Plot 2 (3MHz QPSK - RB Size 1, RB Offset 0 - Low Band 4: Channel)



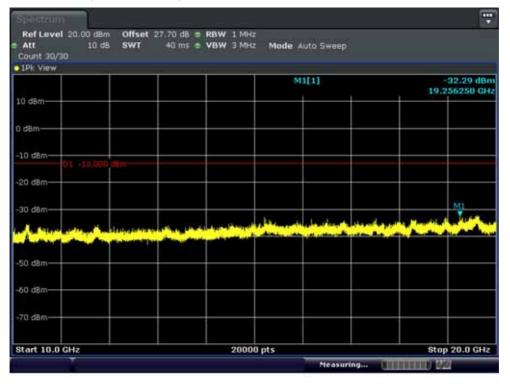
FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
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Band 4: Conducted Spurious Plot 1 (3MHz QPSK - RB Size 1, RB Offset 0 - Mid Band 4: Channel)



Band 4: Conducted Spurious Plot 2 (3MHz QPSK - RB Size 1, RB Offset 0 - Mid Band 4: Channel)



	FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625			
	•	Page 63 of 76	•			



Band 4: Conducted Spurious Plot 1 (3MHz QPSK - RB Size 1, RB Offset 0 - High Band 4: Channel)

	M1[1]		-25.87 dBn 9.513060 GH
_			
			M1
		a had been a start of the	-

Band 4: Conducted Spurious Plot 2 (3MHz QPSK - RB Size 1, RB Offset 0 - High Band 4: Channel)



	FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625			
	Page 64 of 76					



Band 4: Conducted Spurious Plot 1 (5MHz QPSK - RB Size 1, RB Offset 0 - Low Band 4: Channel)



Band 4: Conducted Spurious Plot 2 (5MHz QPSK - RB Size 1, RB Offset 0 - Low Band 4: Channel)



	FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625			
	Page 65 of 76					



Band 4: Conducted Spurious Plot 1 (5MHz QPSK - RB Size 1, RB Offset 0 - Mid Band 4: Channel)



Band 4: Conducted Spurious Plot 2 (5MHz QPSK - RB Size 1, RB Offset 0 - Mid Band 4: Channel)



	FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625			
	Page 66 of 76					



Band 4: Conducted Spurious Plot 1 (5MHz QPSK - RB Size 1, RB Offset 0 - High Band 4: Channel)



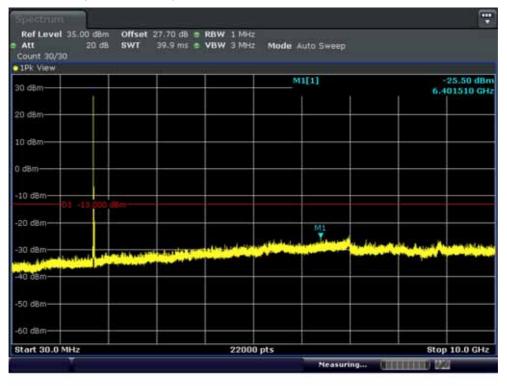
Band 4: Conducted Spurious Plot 2 (5MHz QPSK - RB Size 1, RB Offset 0 - High Band 4: Channel)



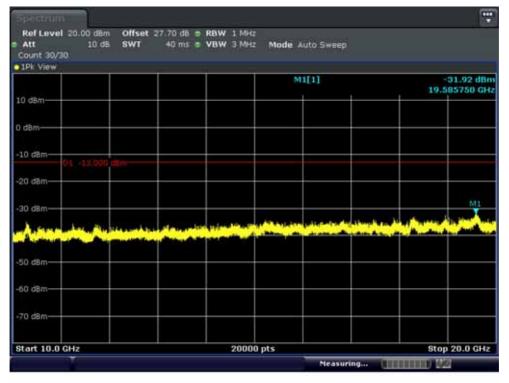
	FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625			
	Page 67 of 76					



Band 4: Conducted Spurious Plot 1 (10MHz QPSK - RB Size 1, RB Offset 0 - Low Band 4: Channel)



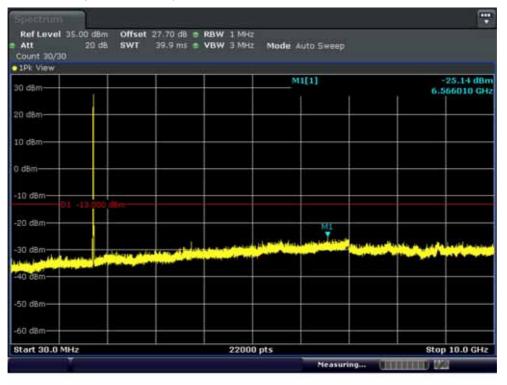
Band 4: Conducted Spurious Plot 2 (10MHz QPSK - RB Size 1, RB Offset 0 - Low Band 4: Channel)



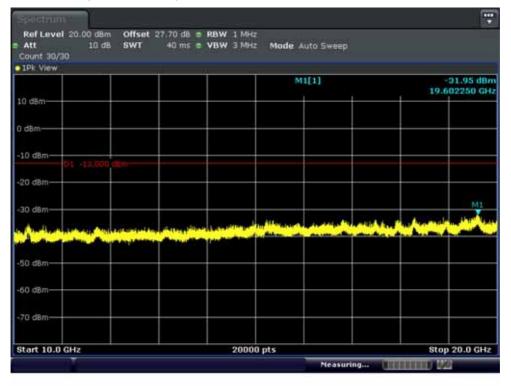
	FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625			
	Page 68 of 76					



Band 4: Conducted Spurious Plot 1 (10MHz QPSK - RB Size 1, RB Offset 0 - Mid Band 4: Channel)



Band 4: Conducted Spurious Plot 2 (10MHz QPSK - RB Size 1, RB Offset 0 - Mid Band 4: Channel)



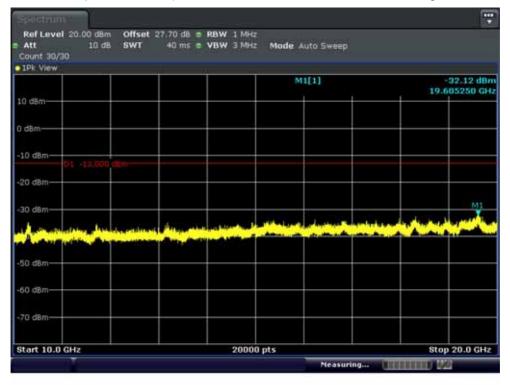
	FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625			
	Page 69 of 76					



Band 4: Conducted Spurious Plot 1 (10MHz QPSK - RB Size 1, RB Offset 0 - High Band 4: Channel)

30 d&m					M	1[1]			25.03 dBr
70 GUIN							1	6.9	95630 GH
20 dBm			+	+					
10 dBm									
) dBm			-						
10 dBm	1.13.09	dation							
20 dBm						N.	1		
30 dBm	Shite a	A SLA. SAME	CALCULATION OF	and the second	-			-	
45 8Bm-+		in the second							
50 dBm			-						
60 dBm									
Start 30.0 M	Hz			2200	0 pts			Stop	10.0 GHz

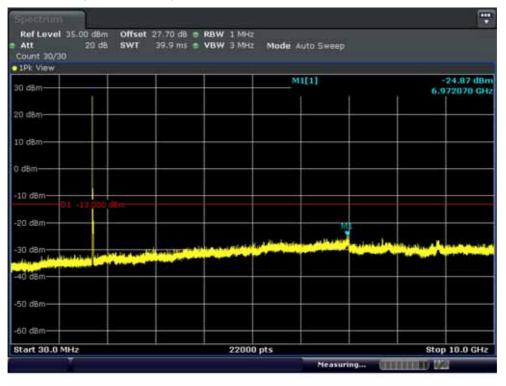
Band 4: Conducted Spurious Plot 2 (10MHz QPSK - RB Size 1, RB Offset 0 - High Band 4: Channel)



	FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625			
	Page 70 of 76					



Band 4: Conducted Spurious Plot 1 (15MHz QPSK - RB Size 1, RB Offset 0 - Low Band 4: Channel)



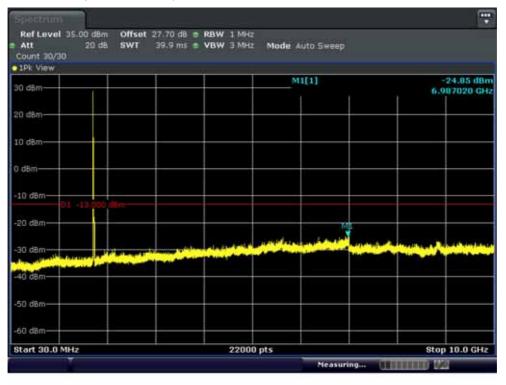
Band 4: Conducted Spurious Plot 2 (15MHz QPSK - RB Size 1, RB Offset 0 - Low Band 4: Channel)



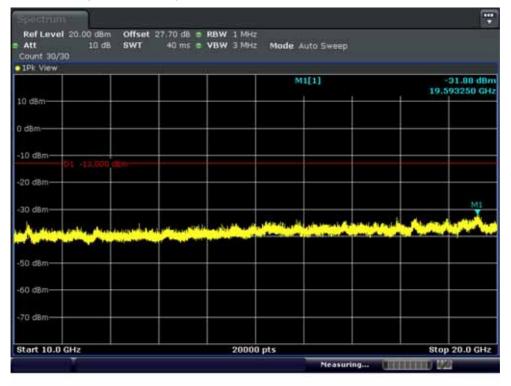
	FCC CERTIFICATION REPORT				
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
		Page 71 of 76	•		



Band 4: Conducted Spurious Plot 1 (15MHz QPSK - RB Size 1, RB Offset 0 - Mid Band 4: Channel)



Band 4: Conducted Spurious Plot 2 (15MHz QPSK - RB Size 1, RB Offset 0 - Mid Band 4: Channel)



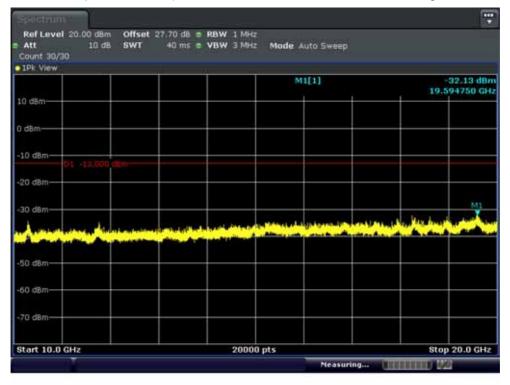
	FCC CERTIFICATION REPORT				
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
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Band 4: Conducted Spurious Plot 1 (15MHz QPSK - RB Size 1, RB Offset 0 - High Band 4: Channel)

30 d8m				M	1[1]		25.39 dBn 61640 GH:
20 dBm							
l0 d8m							
) dBm	_						
10 dBm-01	-13.000	dun					
20 dBm					M		
30 dBm	1.11	halibeite		and the second s		-	
40 dBm	a minister						
-50 dBm							
-60 dBm							
Start 30.0 MH	z		2200	0 pts		Stop	10.0 GHz

Band 4: Conducted Spurious Plot 2 (15MHz QPSK - RB Size 1, RB Offset 0 - High Band 4: Channel)



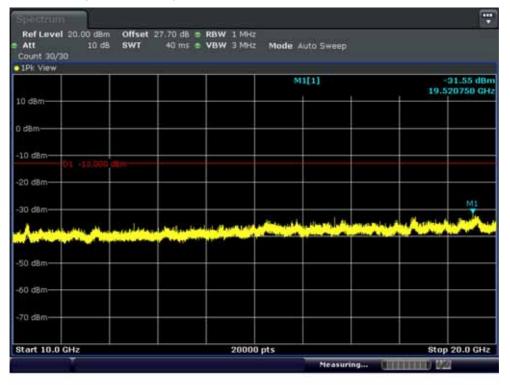
	FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625			
	Page 73 of 76					



Band 4: Conducted Spurious Plot 1 (20MHz QPSK - RB Size 1, RB Offset 0 - Low Band 4: Channel)



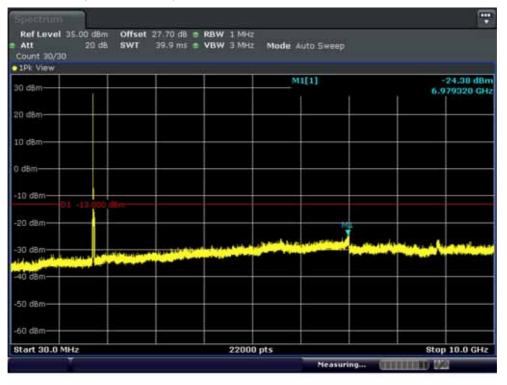
Band 4: Conducted Spurious Plot 2 (20MHz QPSK - RB Size 1, RB Offset 0 - Low Band 4: Channel)



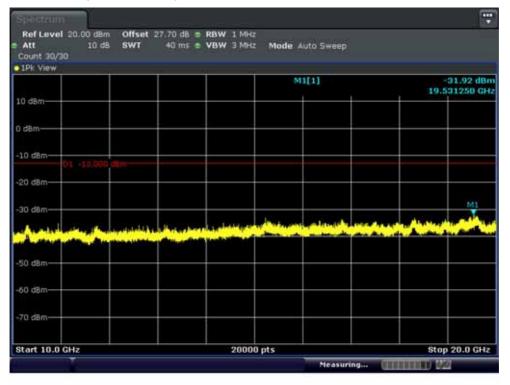
FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
Page 74 of 76					



Band 4: Conducted Spurious Plot 1 (20MHz QPSK - RB Size 1, RB Offset 0 - Mid Band 4: Channel)



Band 4: Conducted Spurious Plot 2 (20MHz QPSK - RB Size 1, RB Offset 0 - Mid Band 4: Channel)



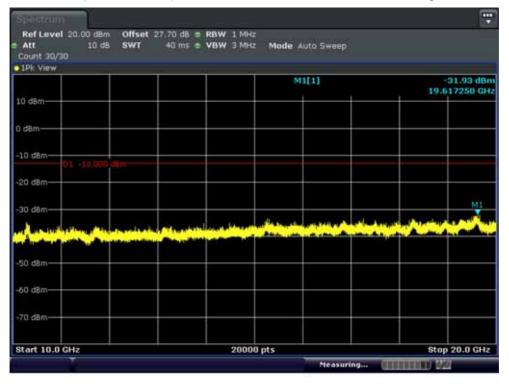
FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
Page 75 of 76					



Band 4: Conducted Spurious Plot 1 (20MHz QPSK - RB Size 1, RB Offset 0 - High Band 4: Channel)

Splictrun	1. A								
Ref Leve Att Count 30/	20	dBm Offse IdB SWT	t 27.70 dB ⊜ 39.9 ms ⊜	VBW 3 MH		luto Sweep			
1Pk View	-	0362	01	7.4 T					-
30 d8m			-		M	1[1]	1[1] -23.87 d 6.986570		
20 dBm									
10 dBm			_						
0 d&m									
-10 d8m-	ei in	500 dilim							
-20 dBm						M			
-30 dBm-	- dated				-			New York	
-40 dBm	-								
-50 dBm									
-60 dBm									
Start 30.0	MHz			2200	0 pts			Stop	10.0 GHz
i	1					Measuri	ng	11110	1

Band 4: Conducted Spurious Plot 2 (20MHz QPSK - RB Size 1, RB Offset 0 - High Band 4: Channel)



FCC CERTIFICATION REPORT					
Test Report No. HCT-R-1403-F025-2	Date of Issue: March 24, 2014	EUT Type: Cellular/PCS GSM, WCDMA, LTE Phone with Bluetooth/WLAN/NFC	FCC ID: ZNFD625		
Page 76 of 76					