



PCTEST ENGINEERING LABORATORY, INC.

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MEASUREMENT REPORT FCC Part 22, 24, & 27 LTE

Applicant Name:
LG Electronics MobileComm U.S.A
1000 Sylvan Avenue
Englewood Cliffs, NJ 07632
United States

Date of Testing:
1/15 - 1/23/2015
Test Site/Location:
PCTEST Lab., Columbia, MD, USA
Test Report Serial No.:
0Y1501210195.ZNF

FCC ID :	ZNFLK430
APPLICANT:	LG ELECTRONICS MOBILECOMM U.S.A



Application Type: Class II Permissive Change
FCC Classification: PCS Licensed Transmitter (PCB)
FCC Rule Part(s): §2; §22; §24; §27
Test Procedure(s): ANSI/TIA-603-C-2004, KDB 971168 v02r02
EUT Type: Portable Tablet
Model(s): LG-LK430, LGLK430, LK430, LK-430
Test Device Serial No.: *identical prototype* [S/N: Radiated #1, Radiated #1, Priority]
Class II Permissive Change: Please see FCC change document
Original Grant Date: 1/14/2015

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.




 Randy Ortanez
 President

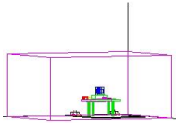


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MEASUREMENT REPORT

FCC Part 22, 24, & 27



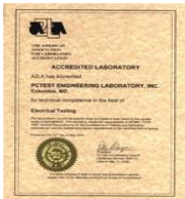
§2.1033 General Information



APPLICANT: LG Electronics MobileComm U.S.A
APPLICANT ADDRESS: 1000 Sylvan Avenue
 Englewood Cliffs, NJ 07632, United States
TEST SITE: PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS: 7185 Oakland Mills Road, Columbia, MD 21045 USA
FCC RULE PART(S): §2; §22; §24; §27
BASE MODEL: LG-LK430, LGLK430, LK430, LK-430
FCC ID: ZNFLK430
FCC CLASSIFICATION: PCS Licensed Transmitter (PCB)
FREQUENCY TOLERANCE: ±0.00025 % (2.5 ppm)
Test Device Serial No.: Radiated #1, Radiated #1, Production Pre-Production Engineering
DATE(S) OF TEST: 1/15 - 1/23/2015
TEST REPORT S/N: 0Y1501210195.ZNF

Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab located in Columbia, MD 21046, U.S.A.

- PCTEST facility is an FCC registered (PCTEST Reg. No. 159966) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules and Industry Canada (2451B-1).
- PCTEST Lab is accredited to ISO 17025 by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP Lab code: 100431-0) in EMC, FCC and Telecommunications.
- PCTEST Lab is accredited to ISO 17025-2005 by the American Association for Laboratory Accreditation (A2LA) in Specific Absorption Rate (SAR) testing, Hearing Aid Compatibility (HAC) testing, CTIA Test Plans, and wireless testing for FCC and Industry Canada Rules.
- PCTEST Lab is a recognized U.S. Conformity Assessment Body (CAB) in EMC and R&TTE (n.b. 0982) under the U.S.-EU Mutual Recognition Agreement (MRA).
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC Guide 65 by the American National Standards Institute (ANSI) in all scopes of FCC Rules and Industry Canada Standards (RSS).
- PCTEST facility is an IC registered (2451B-1) test laboratory with the site description on file at Industry Canada.
- PCTEST is a CTIA Authorized Test Laboratory (CATL) for AMPS, CDMA, and EvDO wireless devices and for Over-the-Air (OTA) Antenna Performance testing for AMPS, CDMA, GSM, GPRS, EGPRS, UMTS (W-CDMA), CDMA 1xEVDO, and CDMA 1xRTT.



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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2 Testing Facility

The map below shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity, the Baltimore-Washington Intern't'l (BWI) airport, the city of Baltimore and the Washington, DC area. (See Figure 1-1).

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility located at 7185 Oakland Mills Road, Columbia, MD 21046. The site coordinates are 39° 10'23" N latitude and 76° 49'50" W longitude. The facility is 0.4 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2003 on February 15, 2012.

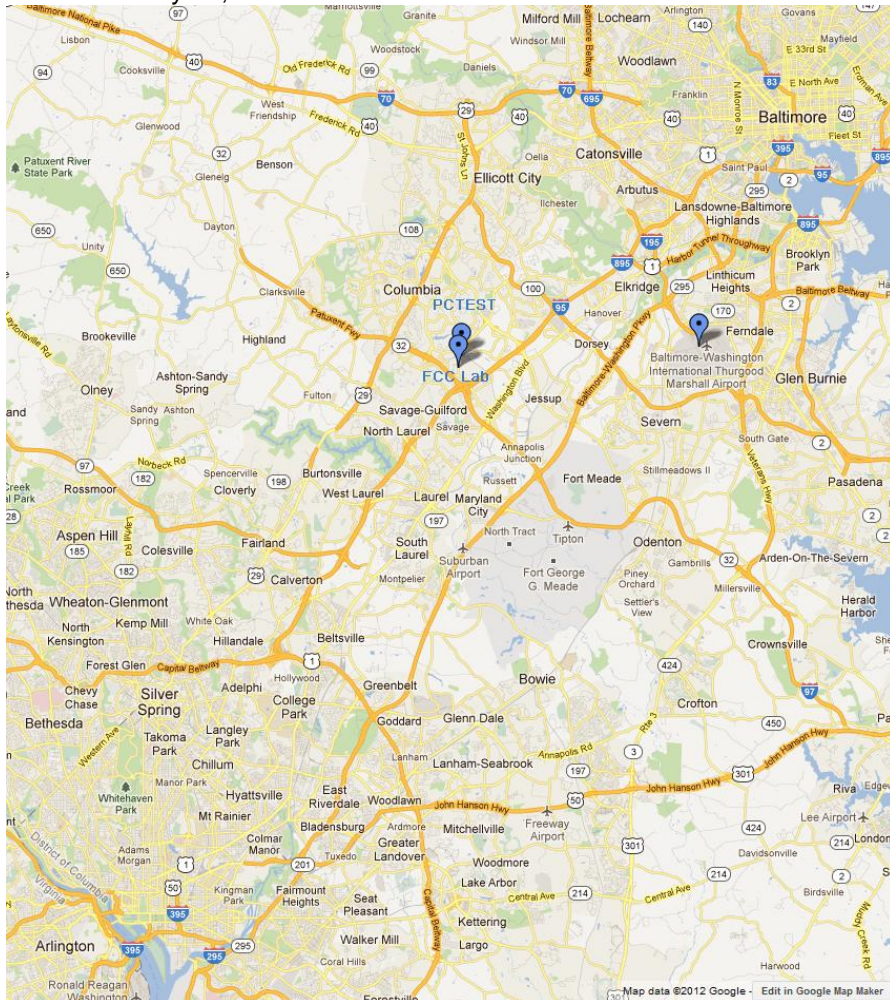


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **LG Portable Tablet FCC ID: ZNFLK430**. The test data contained in this report pertains only to the emissions due to the EUT's LTE function.

2.2 Device Capabilities

This device contains the following capabilities:

Multi-band LTE, 802.11b/g/n WLAN, Bluetooth (1x, EDR, LE)



2.3 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

2.4 Labeling Requirements

Per 2.925

The FCC identifier shall be permanently affixed to the equipment and shall be readily visible to the purchaser at the time of purchase.

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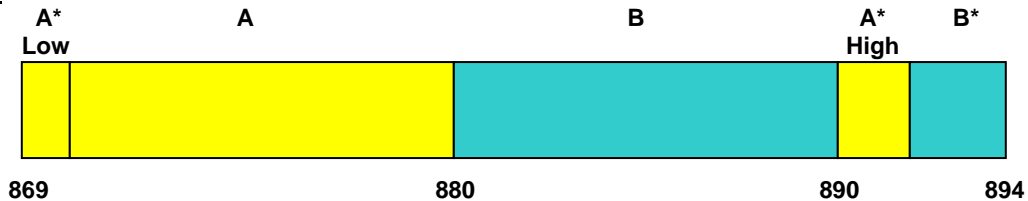
3.0 DESCRIPTION OF TESTS

3.1 Measurement Procedure

The measurement procedures described in the document titled “Land Mobile FM or PM – Communications Equipment – Measurements and Performance Standards” (ANSI/TIA-603-C-2004) and “Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems” (KDB 971168) were used in the measurement of the **LG Portable Tablet** **FCC ID: ZNFLK430**.

3.2 Cellular - Base Frequency Blocks

§22.905



BLOCK 1: 869 – 880 MHz (A* Low + A)

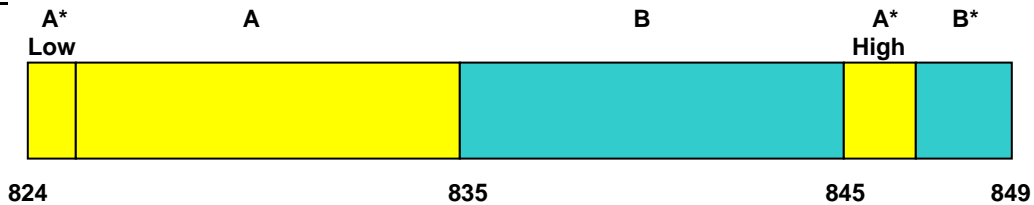
BLOCK 2: 880 – 890 MHz (B)

BLOCK 3: 890 – 891.5 MHz (A* High)

BLOCK 4: 891.5 – 894 MHz (B*)

3.3 Cellular - Mobile Frequency Blocks

§22.905



BLOCK 1: 824 – 835 MHz (A* Low + A)

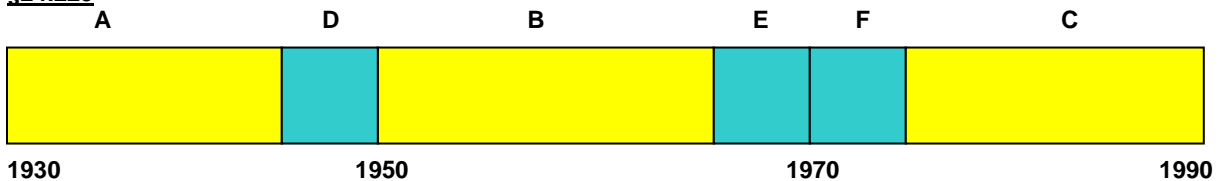
BLOCK 2: 835 – 845 MHz (B)

BLOCK 3: 845 – 846.5 MHz (A* High)

BLOCK 4: 846.5 – 849 MHz (B*)

3.4 PCS - Base Frequency Blocks

§24.229



BLOCK 1: 1930 – 1945 MHz (A)

BLOCK 2: 1945 – 1950 MHz (D)

BLOCK 3: 1950 – 1965 MHz (B)

BLOCK 4: 1965 – 1970 MHz (E)

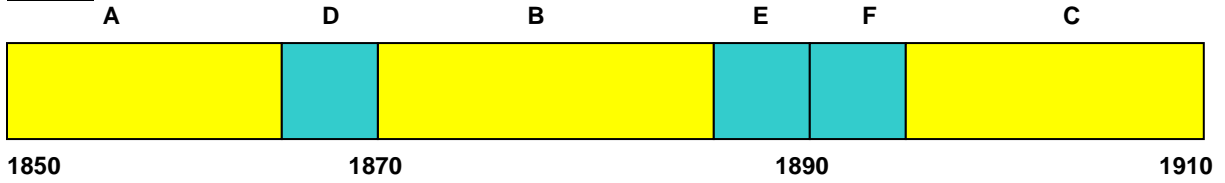
BLOCK 5: 1970 – 1975 MHz (F)

BLOCK 6: 1975 – 1990 MHz (C)

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3.5 PCS - Mobile Frequency Blocks

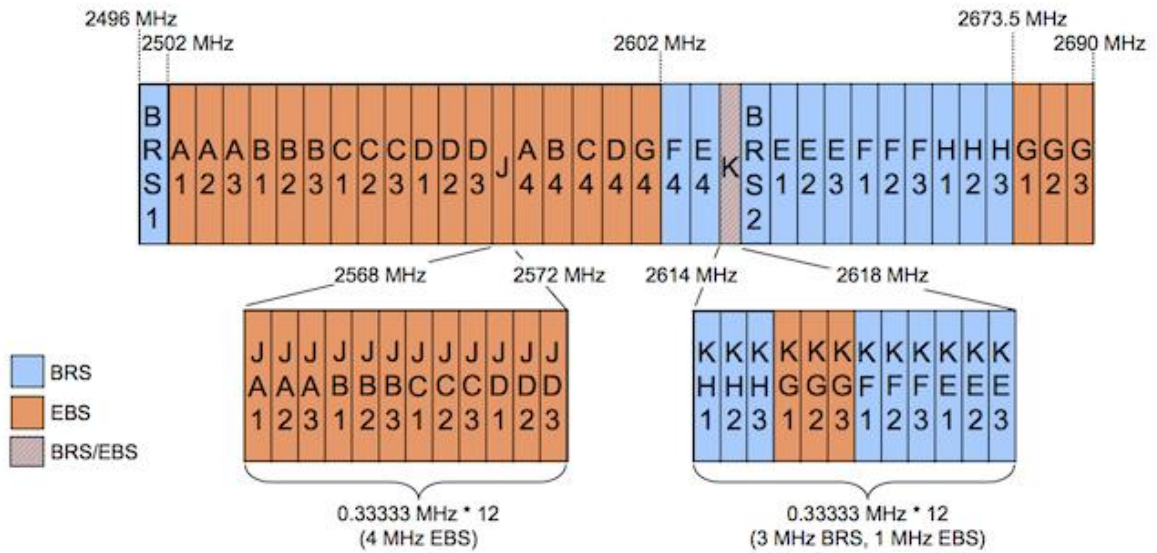
§24.229



- BLOCK 1: 1850 – 1865 MHz (A)
- BLOCK 2: 1865 – 1870 MHz (D)
- BLOCK 3: 1870 – 1885 MHz (B)
- BLOCK 4: 1885 – 1890 MHz (E)
- BLOCK 5: 1890 – 1895 MHz (F)
- BLOCK 6: 1895 – 1910 MHz (C)

3.6 BRS/EBS Frequency Block

§27.5 §27.53(m)



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3.7 Radiated Power and Radiated Spurious Emissions

§2.1053 §22.913(a.2) §22.917(a) §24.232(c) §24.238(a) §27.53(m)

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Clause 5, Figure 5.7 of ANSI C63.4-2009. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An ETS Lindgren Model 2188 raised turntable is used for radiated measurement. It is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. A 78cm high PVC support structure is placed on top of the turntable. A 3/4" (~1.9cm) sheet of high density polyethylene is used as the table top and is placed on top of the PVC supports to bring the total height of the table to 80cm.



The equipment under test was transmitting while connected to its integral antenna and is placed on a wooden turntable 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer. Radiated power levels are also investigated with the receive antenna horizontally and vertically polarized. The maximized power level is recorded using the spectrum analyzer "Channel Power" function with the integration band set to the emissions' occupied bandwidth, a RMS detector, RBW = 100kHz, VBW = 300kHz, and a 1 second sweep time over a minimum of 10 sweeps, per the guidelines of KDB 971168.

Per the guidance of ANSI/TIA-603-C-2004, 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 with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT. The power of the emission is calculated using the following formula:

$$P_d \text{ [dBm]} = P_g \text{ [dBm]} - \text{cable loss [dB]} + \text{antenna gain [dBd/dBi]}$$

Where, P_d is the dipole equivalent power, P_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to $P_g \text{ [dBm]} - \text{cable loss [dB]}$.

The calculated P_d levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of $43 + 10\log_{10}(\text{Power}_{\text{[Watts]}})$. For Band 41, the calculated P_d levels are compared to the absolute spurious emission limit of -25dBm which is equivalent to the required minimum attenuation of $55 + 10\log_{10}(\text{Power}_{\text{[Watts]}})$.

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4.0 TEST EQUIPMENT CALIBRATION DATA



Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	RE1	Radiated Emissions Cable Set (UHF/EHF)	10/24/2014	Annual	10/24/2015	N/A
Agilent	8447D	Broadband Amplifier	5/30/2014	Annual	5/30/2015	2443A01900
Agilent	E4448A	PSA (3Hz-50GHz) Spectrum Analyzer	4/16/2014	Annual	4/16/2015	US42510244
Agilent	N9020A	MXA Signal Analyzer	10/27/2014	Annual	10/27/2015	US46470561
Agilent	N9030A	PXA Signal Analyzer (44GHz)	3/17/2014	Annual	3/17/2015	MY52350166
Com-Power	AL-130	9kHz - 30MHz Loop Antenna	6/26/2013	Biennial	6/26/2015	121034
Emco	3115	Horn Antenna (1-18GHz)	1/30/2014	Biennial	1/30/2016	9704-5182
Espec	ESX-2CA	Environmental Chamber	4/16/2014	Annual	4/16/2015	17620
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	4/8/2014	Biennial	4/8/2016	125518
ETS Lindgren	3160-09	18-26.5 GHz Standard Gain Horn	6/17/2014	Biennial	6/17/2016	135427
ETS Lindgren	3164-08	Quad Ridge Horn Antenna	3/12/2014	Biennial	3/12/2016	128337
K & L	11SH10-4000/12000	High Pass Filter	12/1/2014	Annual	12/1/2015	2
K & L	13SH10-1000/U1000	N Type High Pass Filter	12/1/2014	Annual	12/1/2015	1
K & L	11SH10-3075/U18000	High Pass Filter	12/1/2014	Annual	12/1/2015	2
Mini Circuits	PWR-SEN-4GHS	USB Power Sensor	4/9/2014	Annual	4/9/2015	11401010036
Mini-Circuits	SSG-4000HP	USB Synthesized Signal Generator	N/A			11208010032
Mini-Circuits	TVA-11-422	RF Power Amp	N/A			QA1303002
Rhode & Schwarz	TS-PR18	Pre-Amplifier	6/12/2014	Annual	6/12/2015	101622
Rohde & Schwarz	CMW500	Radio Communication Tester	10/4/2013	Biennial	10/4/2015	103962
Rohde & Schwarz	TS-PR18	1-18 GHz Pre-Amplifier	3/5/2014	Annual	3/5/2015	100071
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	3/27/2014	Annual	3/27/2015	100342
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	5/21/2014	Annual	5/21/2015	100348
Schwarzbeck	UHA 9105	Dipole Antenna (400 - 1GHz) Rx	11/21/2013	Biennial	11/21/2015	9105-2404
Seekonk	NC-100	Torque Wrench 5/16", 8" lbs	3/18/2014	Biennial	3/18/2016	N/A
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	1/28/2014	Biennial	1/28/2016	A051107

Table 4-1. Test Equipment

Notes:

Equipment with a calibration date of "N/A" shown in this list was not used to make direct calibrated measurements.

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5.0 SAMPLE CALCULATIONS

Emission Designator

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHz
 G = Phase Modulation
 7 = Quantized/Digital Info
 D = Data transmission, telemetry, telecommand

16QAM Modulation



Emission Designator = 8M45W7D

LTE BW = 8.45 MHz
 W = Amplitude/Angle Modulated
 7 = Quantized/Digital Info
 D = Data transmission, telemetry, telecommand

Spurious Radiated Emission – LTE Band

Example: Middle Channel LTE Mode 2nd Harmonic (1564 MHz)

The average spectrum analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 1564 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.501 dBm so this harmonic was 25.501 dBm – (-24.80).

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6.0 TEST RESULTS

6.1 Summary



Company Name: LG Electronics MobileComm U.S.A
 FCC ID: ZNFLK430
 FCC Classification: PCS Licensed Transmitter (PCB)
 Mode(s): LTE

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Result	Reference
<u>TRANSMITTER MODE (TX)</u>					
22.913(a.2)	Effective Radiated Power (Band 26)	< 7 Watts max. ERP	RADIATED	PASS	Section 6.2
24.232(c) 27.50(h.2)	Equivalent Isotropic Radiated Power (Band 25 41)	< 2 Watts max. EIRP		PASS	Section 6.2
2.1053 22.917(a) 24.238(a)	Undesirable Emissions	> 43 + 10log ₁₀ (P[Watts]) for all out-of-band emissions		PASS	Section 6.3
27.53(m)	Undesirable Emissions	> 43 + 10log ₁₀ (P[Watts]) at channel edges and > 55 + 10log ₁₀ (P[Watts]) at 5.5MHz away and beyond channel edges		PASS	Section 6.3

Table 6-1. Summary of Test Results

Notes:

- All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.

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6.2 Radiated Power (ERP/EIRP)

§22.913(a.2) §24.232(c.2) §27.50(h.2)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI/TIA-603-C-2004 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.



Test Procedures Used

KDB 971168 v02r02 – Section 5.2.1

ANSI/TIA-603-C-2004 – Section 2.2.17

Test Settings

1. Radiated power measurements are performed using the signal analyzer’s “channel power” measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer’s “time domain power” measurement capability is used
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW \geq 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points \geq 2 x span / RBW
6. Detector = RMS
7. Trigger is set to “free run” for signals with continuous operation with the sweep times set to “auto”.
Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the “gating” function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

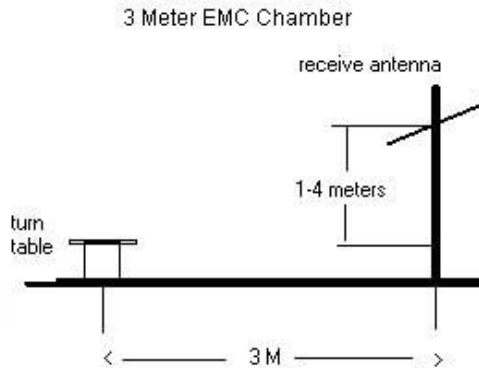




Figure 6-1. Test Instrument & Measurement Setup



Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) The ERPs and EIRPs listed in the tables below were measured using the Class II Permissive Change sample, and were found to be within the measurement tolerances of the original certification samples for radiated power. It has been determined that the output power was not changed for these Class II Permissive Change samples.

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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Battery	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBd]	Ant. Pol. [H/V]	ERP [dBm]	EIRP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	Standard	3 / 2	16.57	2.98	V	19.55	38.451	-18.90
836.50	1.4	QPSK	Standard	1 / 5	18.26	3.04	V	21.30	38.451	-17.15
848.30	1.4	QPSK	Standard	3 / 2	18.01	3.10	V	21.11	38.451	-17.34
824.70	1.4	16-QAM	Standard	3 / 2	14.36	2.98	V	17.34	38.451	-21.11
836.50	1.4	16-QAM	Standard	1 / 5	16.49	3.04	V	19.53	38.451	-18.92
848.30	1.4	16-QAM	Standard	3 / 2	16.02	3.10	V	19.12	38.451	-19.33
825.50	3	QPSK	Standard	1 / 14	17.13	2.98	V	20.11	38.451	-18.34
836.50	3	QPSK	Standard	1 / 14	17.66	3.04	V	20.70	38.451	-17.75
847.50	3	QPSK	Standard	1 / 0	17.48	3.10	V	20.58	38.451	-17.87
825.50	3	16-QAM	Standard	1 / 14	16.55	2.98	V	19.53	38.451	-18.92
836.50	3	16-QAM	Standard	1 / 14	17.16	3.04	V	20.20	38.451	-18.25
847.50	3	16-QAM	Standard	1 / 0	16.18	3.10	V	19.28	38.451	-19.17
826.50	5	QPSK	Standard	1 / 24	17.54	2.99	V	20.53	38.451	-17.92
836.50	5	QPSK	Standard	1 / 24	18.09	3.04	V	21.13	38.451	-17.32
846.50	5	QPSK	Standard	1 / 0	17.79	3.09	V	20.88	38.451	-17.57
826.50	5	16-QAM	Standard	1 / 24	16.08	2.99	V	19.07	38.451	-19.38
836.50	5	16-QAM	Standard	1 / 24	16.58	3.04	V	19.62	38.451	-18.83
846.50	5	16-QAM	Standard	1 / 0	16.95	3.09	V	20.04	38.451	-18.41
829.00	10	QPSK	Standard	1 / 49	16.91	3.00	V	19.91	38.451	-18.54
836.50	10	QPSK	Standard	1 / 49	17.27	3.04	V	20.31	38.451	-18.14
844.00	10	QPSK	Standard	1 / 49	17.77	3.08	V	20.85	38.451	-17.60
829.00	10	16-QAM	Standard	1 / 49	15.33	3.00	V	18.33	38.451	-20.12
836.50	10	16-QAM	Standard	1 / 49	16.01	3.04	V	19.05	38.451	-19.40
844.00	10	16-QAM	Standard	1 / 49	16.79	3.08	V	19.87	38.451	-18.58
831.50	15	QPSK	Standard	1 / 74	18.35	3.01	V	21.36	38.451	-17.09
836.50	15	QPSK	Standard	1 / 74	18.27	3.04	V	21.31	38.451	-17.14
841.50	15	QPSK	Standard	1 / 0	18.36	3.07	V	21.43	38.451	-17.02
831.50	15	16-QAM	Standard	1 / 74	16.99	3.01	V	20.00	38.451	-18.45
836.50	15	16-QAM	Standard	1 / 74	16.87	3.04	V	19.91	38.451	-18.54
841.50	15	16-QAM	Standard	1 / 0	17.31	3.07	V	20.38	38.451	-18.07

Table 6-2. ERP Data (Band 26)

FCC ID: ZNFLK430		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)			Reviewed by: Quality Manager
Test Report S/N: 0Y1501210195.ZNF	Test Dates: 1/15 - 1/23/2015	EUT Type: Portable Tablet		Page 14 of 23	



Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Battery	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBi]	Ant. Pol. [H/V]	EIRP [dBm]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	Standard	1 / 0	16.06	8.34	V	24.40	33.010	-8.61
1882.50	1.4	QPSK	Standard	1 / 0	15.65	8.47	V	24.12	33.010	-8.89
1914.30	1.4	QPSK	Standard	1 / 0	15.57	8.70	V	24.27	33.010	-8.74
1850.70	1.4	16-QAM	Standard	1 / 0	15.19	8.34	V	23.53	33.010	-9.48
1882.50	1.4	16-QAM	Standard	1 / 0	15.06	8.47	V	23.53	33.010	-9.48
1914.30	1.4	16-QAM	Standard	1 / 0	14.70	8.70	V	23.40	33.010	-9.61
1851.50	3	QPSK	Standard	1 / 0	15.34	8.35	V	23.69	33.010	-9.32
1882.50	3	QPSK	Standard	1 / 0	16.12	8.47	V	24.59	33.010	-8.42
1913.50	3	QPSK	Standard	1 / 0	15.77	8.69	V	24.46	33.010	-8.55
1851.50	3	16-QAM	Standard	1 / 0	14.45	8.35	V	22.80	33.010	-10.21
1882.50	3	16-QAM	Standard	1 / 0	15.47	8.47	V	23.94	33.010	-9.07
1913.50	3	16-QAM	Standard	1 / 0	14.65	8.69	V	23.34	33.010	-9.67
1852.50	5	QPSK	Standard	1 / 0	14.83	8.35	V	23.18	33.010	-9.83
1882.50	5	QPSK	Standard	1 / 0	16.04	8.47	V	24.51	33.010	-8.50
1912.50	5	QPSK	Standard	1 / 0	14.63	8.68	V	23.31	33.010	-9.70
1852.50	5	16-QAM	Standard	1 / 0	14.18	8.35	V	22.53	33.010	-10.48
1882.50	5	16-QAM	Standard	1 / 0	15.61	8.47	V	24.08	33.010	-8.93
1912.50	5	16-QAM	Standard	1 / 0	13.48	8.68	V	22.16	33.010	-10.85
1855.00	10	QPSK	Standard	1 / 0	17.34	8.36	V	25.70	33.010	-7.31
1882.50	10	QPSK	Standard	1 / 0	16.39	8.47	V	24.86	33.010	-8.15
1910.00	10	QPSK	Standard	1 / 0	14.90	8.65	V	23.55	33.010	-9.46
1855.00	10	16-QAM	Standard	1 / 0	16.17	8.36	V	24.53	33.010	-8.48
1882.50	10	16-QAM	Standard	1 / 0	14.90	8.47	V	23.37	33.010	-9.64
1910.00	10	16-QAM	Standard	1 / 0	14.64	8.65	V	23.29	33.010	-9.72
1857.50	15	QPSK	Standard	1 / 74	16.42	8.37	V	24.79	33.010	-8.22
1882.50	15	QPSK	Standard	1 / 74	15.35	8.47	V	23.82	33.010	-9.19
1907.50	15	QPSK	Standard	1 / 74	15.20	8.62	V	23.82	33.010	-9.19
1857.50	15	16-QAM	Standard	1 / 74	16.16	8.37	V	24.53	33.010	-8.48
1882.50	15	16-QAM	Standard	1 / 74	15.11	8.47	V	23.58	33.010	-9.43
1907.50	15	16-QAM	Standard	1 / 74	14.88	8.62	V	23.50	33.010	-9.51
1860.00	20	QPSK	Standard	1 / 0	17.17	8.38	V	25.55	33.010	-7.46
1882.50	20	QPSK	Standard	1 / 0	15.79	8.47	V	24.26	33.010	-8.75
1905.00	20	QPSK	Standard	1 / 0	16.58	8.59	V	25.17	33.010	-7.84
1860.00	20	16-QAM	Standard	1 / 0	15.65	8.38	V	24.03	33.010	-8.98
1882.50	20	16-QAM	Standard	1 / 0	14.41	8.47	V	22.88	33.010	-10.13
1905.00	20	16-QAM	Standard	1 / 0	15.08	8.59	V	23.67	33.010	-9.34

Table 6-3. EIRP Data (Band 25)

FCC ID: ZNFLK430	 FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)			Reviewed by: Quality Manager
Test Report S/N: 0Y1501210195.ZNF	Test Dates: 1/15 - 1/23/2015	EUT Type: Portable Tablet	Page 15 of 23	

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Battery	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBi]	Ant. Pol. [H/V]	EIRP [dBm]	EIRP Limit [dBm]	Margin [dB]
2498.50	5	QPSK	Standard	1 / 0	13.90	7.09	V	20.99	33.010	-12.02
2593.00	5	QPSK	Standard	1 / 0	12.83	7.55	V	20.38	33.010	-12.63
2687.50	5	QPSK	Standard	1 / 0	14.25	7.82	V	22.07	33.010	-10.94
2498.50	5	16-QAM	Standard	1 / 0	12.00	7.09	V	19.09	33.010	-13.92
2593.00	5	16-QAM	Standard	1 / 0	10.84	7.55	V	18.39	33.010	-14.62
2687.50	5	16-QAM	Standard	1 / 0	12.56	7.82	V	20.38	33.010	-12.63
2501.00	10	QPSK	Standard	1 / 0	15.26	7.08	V	22.34	33.010	-10.67
2593.00	10	QPSK	Standard	1 / 0	13.57	7.55	V	21.12	33.010	-11.89
2685.00	10	QPSK	Standard	1 / 0	10.65	7.81	V	18.46	33.010	-14.55
2501.00	10	16-QAM	Standard	1 / 0	13.29	7.08	V	20.37	33.010	-12.64
2593.00	10	16-QAM	Standard	1 / 0	12.11	7.55	V	19.66	33.010	-13.35
2685.00	10	16-QAM	Standard	1 / 0	8.65	7.81	V	16.46	33.010	-16.55
2503.50	15	QPSK	Standard	1 / 74	12.93	7.10	V	20.03	33.010	-12.98
2593.00	15	QPSK	Standard	1 / 0	14.15	7.55	V	21.70	33.010	-11.31
2682.50	15	QPSK	Standard	1 / 0	10.93	7.81	V	18.74	33.010	-14.27
2503.50	15	16-QAM	Standard	1 / 74	11.26	7.10	V	18.36	33.010	-14.65
2593.00	15	16-QAM	Standard	1 / 0	12.32	7.55	V	19.87	33.010	-13.14
2682.50	15	16-QAM	Standard	1 / 0	9.39	7.81	V	17.20	33.010	-15.81
2506.00	20	QPSK	Standard	1 / 0	16.41	7.11	V	23.52	33.010	-9.49
2593.00	20	QPSK	Standard	1 / 0	14.31	7.55	V	21.86	33.010	-11.15
2680.00	20	QPSK	Standard	1 / 0	12.91	7.80	V	20.71	33.010	-12.30
2506.00	20	16-QAM	Standard	1 / 0	14.18	7.11	V	21.29	33.010	-11.72
2593.00	20	16-QAM	Standard	1 / 0	11.76	7.55	V	19.31	33.010	-13.70
2680.00	20	16-QAM	Standard	1 / 0	11.29	7.80	V	19.09	33.010	-13.92

Table 6-4. EIRP Data (Band 41)

FCC ID: ZNFLK430		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1501210195.ZNF	Test Dates: 1/15 - 1/23/2015	EUT Type: Portable Tablet	Page 16 of 23	

6.3 Radiated Spurious Emissions Measurements

§2.1053 §22.917(a) §24.238(a) §27.53(m)

Test Overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI/TIA-603-C-2004 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 v02r02 – Section 5.8

ANSI/TIA-603-C-2004 – Section 2.2.12

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW ≥ 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points ≥ 2 x span / RBW
5. Detector = Peak
6. Trace mode = max hold
7. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

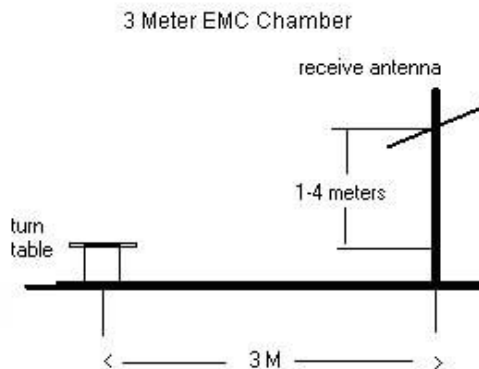




Figure 6-2. Test Instrument & Measurement Setup

FCC ID: ZNFLK430		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1501210195.ZNF	Test Dates: 1/15 - 1/23/2015	EUT Type: Portable Tablet		Page 17 of 23



Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The “H” positioning is defined with the EUT lying flat on the test surface, the “H2” positioning is defined with the EUT standing up on its side, and the “V” positioning is defined with the EUT standing upright. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 4) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.

OPERATING FREQUENCY: 831.50 MHz
 CHANNEL: 26865
 MEASURED OUTPUT POWER: 21.36 dBm = 0.137 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 15.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 34.36 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1663.00	-66.02	6.56	-59.46	H	80.8
2494.50	-61.47	7.33	-54.14	H	75.5
3326.00	-63.95	7.41	-56.54	H	77.9

Table 6-5. Radiated Spurious Data (Band 26 – Low Channel)

FCC ID: ZNFLK430		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1501210195.ZNF	Test Dates: 1/15 - 1/23/2015	EUT Type: Portable Tablet	Page 18 of 23	

OPERATING FREQUENCY: 836.50 MHz
 CHANNEL: 26915
 MEASURED OUTPUT POWER: 21.31 dBm = 0.135 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 15.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 34.31 dBc



Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1673.00	-65.59	6.55	-59.04	H	80.4
2509.50	-66.16	7.34	-58.81	H	80.1
3346.00	-64.31	7.44	-56.87	H	78.2

Table 6-6. Radiated Spurious Data (Band 26 – Mid Channel)

OPERATING FREQUENCY: 841.50 MHz
 CHANNEL: 26965
 MEASURED OUTPUT POWER: 21.43 dBm = 0.139 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 15.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 34.43 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1683.00	-63.18	6.55	-56.63	H	78.1
2524.50	-66.44	7.35	-59.09	H	80.5
3366.00	-62.60	7.47	-55.13	H	76.6

Table 6-7. Radiated Spurious Data (Band 26 – High Channel)

FCC ID: ZNFLK430		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1501210195.ZNF	Test Dates: 1/15 - 1/23/2015	EUT Type: Portable Tablet	Page 19 of 23	

OPERATING FREQUENCY: 1855.00 MHz
 CHANNEL: 26090
 MEASURED OUTPUT POWER: 25.70 dBm = 0.371 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 38.70 dBc



Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3710.00	-45.88	9.89	-35.99	H	61.7
5565.00	-41.46	11.14	-30.32	H	56.0
7420.00	-45.72	10.78	-34.94	H	60.6
9275.00	-51.35	12.30	-39.05	H	64.8

Table 6-8. Radiated Spurious Data (Band 25 – Low Channel)

OPERATING FREQUENCY: 1882.50 MHz
 CHANNEL: 26365
 MEASURED OUTPUT POWER: 24.86 dBm = 0.306 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 37.86 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3765.00	-43.05	9.68	-33.37	H	58.2
5647.50	-43.23	11.25	-31.98	H	56.8
7530.00	-43.29	11.01	-32.27	H	57.1
9412.50	-51.25	12.26	-39.00	H	63.9

Table 6-9. Radiated Spurious Data (Band 25 – Mid Channel)

FCC ID: ZNFLK430		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1501210195.ZNF	Test Dates: 1/15 - 1/23/2015	EUT Type: Portable Tablet	Page 20 of 23	

OPERATING FREQUENCY: 1910.00 MHz
 CHANNEL: 26640
 MEASURED OUTPUT POWER: 23.55 dBm = 0.227 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 36.55 dBc



Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3820.00	-40.18	9.48	-30.70	H	54.3
5730.00	-42.26	11.30	-30.97	H	54.5
7640.00	-41.21	11.22	-29.98	H	53.5
9550.00	-50.82	12.35	-38.47	H	62.0

Table 6-10. Radiated Spurious Data (Band 25 – High Channel)

OPERATING FREQUENCY: 2506.00 MHz
 CHANNEL: 39750
 MEASURED OUTPUT POWER: 23.52 dBm = 0.225 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: $55 + 10 \log_{10}(W) =$ 48.52 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
5012.00	-41.18	10.91	-30.27	H	53.8
7518.00	-39.05	10.97	-28.08	H	51.6
10024.00	-49.39	12.04	-37.35	H	60.9
12530.00	-62.03	13.46	-48.57	H	72.1
15036.00	-53.92	13.48	-40.44	H	64.0
17542.00	-55.56	11.65	-43.91	H	67.4

Table 6-11. Radiated Spurious Data (Band 41 – Low Channel)

FCC ID: ZNFLK430		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1501210195.ZNF	Test Dates: 1/15 - 1/23/2015	EUT Type: Portable Tablet	Page 21 of 23	

OPERATING FREQUENCY: 2593.00 MHz
 CHANNEL: 40620
 MEASURED OUTPUT POWER: 21.86 dBm = 0.153 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: $55 + 10 \log_{10}(W) =$ 46.86 dBc



Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
5186.00	-40.54	10.94	-29.60	H	51.5
7779.00	-42.64	11.22	-31.42	H	53.3
10372.00	-44.86	12.36	-32.50	H	54.4

Table 6-12. Radiated Spurious Data (Band 41 – Mid Channel)

OPERATING FREQUENCY: 2680.00 MHz
 CHANNEL: 41490
 MEASURED OUTPUT POWER: 20.71 dBm = 0.118 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: $55 + 10 \log_{10}(W) =$ 45.71 dBc



Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
5360.00	-42.77	10.37	-32.41	H	53.1
8040.00	-39.60	11.03	-28.57	H	49.3
10720.00	-45.79	12.92	-32.87	H	53.6
13400.00	-41.58	12.42	-29.17	H	49.9
16080.00	-45.57	16.66	-28.91	H	49.6

Table 6-13. Radiated Spurious Data (Band 41 – High Channel)

FCC ID: ZNFLK430			FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)		Reviewed by: Quality Manager
Test Report S/N: 0Y1501210195.ZNF	Test Dates: 1/15 - 1/23/2015	EUT Type: Portable Tablet		Page 22 of 23	

7.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **LG Portable Tablet FCC ID: ZNFLK430** complies with all the requirements of Parts 22, 24, & 27 of the FCC rules for LTE operation only.

FCC ID: ZNFLK430	 FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CLASS II PERMISSIVE CHANGE)			Reviewed by: Quality Manager
Test Report S/N: 0Y1501210195.ZNF	Test Dates: 1/15 - 1/23/2015	EUT Type: Portable Tablet		Page 23 of 23