



**FCC 47 CFR PART 22 SUBPART H
FCC 47 CFR PART 24 SUBPART E
FCC 47 CFR PART 27 SUBPART M
FCC 47 CFR PART 90 SUBPART S**

C2PC CERTIFICATION TEST REPORT

FOR

GSM/CDMA/WCDMA/LTE Phone + Bluetooth, DTS/UNII a/b/g/n/ac and NFC

MODEL NUMBER: LGLS990, LG-LS990, LS990

FCC ID: ZNFLS990

REPORT NUMBER: 14U17849-1

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Prepared for

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TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS 5

2. TEST METHODOLOGY 6

3. FACILITIES AND ACCREDITATION 6

4. CALIBRATION AND UNCERTAINTY 6

 4.1. *MEASURING INSTRUMENT CALIBRATION* 6

 4.2. *SAMPLE CALCULATION* 6

 4.3. *MEASUREMENT UNCERTAINTY*..... 7

5. EQUIPMENT UNDER TEST 8

 5.1. *DESCRIPTION OF EUT* 8

 5.2. *MAXIMUM OUTPUT POWER*..... 8

 5.3. *MAXIMUM OUTPUT POWER (LTE)*..... 10

 5.4. *DESCRIPTION OF AVAILABLE ANTENNAS* 14

 5.5. *DESCRIPTION OF TEST SETUP*..... 15

6. TEST AND MEASUREMENT EQUIPMENT18

7. Summary Table.....19

8. RF POWER OUTPUT VERIFICATION.....20

 8.1. *GSM/GPRS/EDGE*20

 8.1.1. *GSM OUTPUT POWER RESULT*21

 8.2. *UMTS REL 99*.....22

 8.2.1. *UMTS REL 99 OUTPUT POWER RESULT*22

 8.3. *UMTS HSDPA*23

 8.3.1. *UMTS HSDPA OUTPUT POWER RESULT*.....23

 8.3.2. *UMTS HSUPA*25

 8.3.3. *UMTS HSUPA OUTPUT POWER RESULT*.....26

 8.4. *CDMA2000*27

 8.4.1. *1xRTT*27

 8.4.1. *CDMA2000 OUTPUT POWER RESULT*28

 8.4.2. *1xEV-DO Release 0*.....29

 8.4.1. *1XEVD0 REL 0 OUTPUT POWER RESULT*.....30

 8.4.1. *1xEV-DO Rev. A*.....31

8.4.2. 1xEVDO REV A OUTPUT RESULT.....32

8.5. LTE OUTPUT VERIFICATION.....33

8.5.1. LTE OUTPUT RESULT33

9. RADIATED TEST RESULTS38

9.1. RADIATED POWER (ERP & EIRP).....38

9.1.1. ERP/EIRP Results38

9.1.2. CDMA ERP/EIRP Results.....40

9.1.3. LTE ERP/EIRP Results.....40

9.1.4. ERP/EIRP DATA44

9.3. WPC Back cover test data78

9.2. FIELD STRENGTH OF SPURIOUS RADIATION.....91

9.2.1. SPURIOUS RADIATION DATA92

10. SETUP PHOTOS126

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: LG ELECTRONICS MOBILECOMM U.S.A., INC.

EUT DESCRIPTION: GSM/CDMA/WCDMA/LTE Phone + Bluetooth, DTS/UNII a/b/g/n/ac and NFC.

MODEL: LGLS990, LG-LS990, LS990

SERIAL NUMBER: 17QZE (Radiated)

DATE TESTED: MAY 20 – JUNE 5, 2014

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 22H, 24E,27M AND 90S	PASS

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA-603-C, FCC CFR 47 Part 2, Part 22, Part 24, Part 27 and Part 90.

Test Procedure: Reference KDB 971168 D01 Power Meas License Digital Systems v02r01 6/7/2013

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
<input type="checkbox"/> Chamber A	<input type="checkbox"/> Chamber D
<input checked="" type="checkbox"/> Chamber B	<input type="checkbox"/> Chamber E
<input type="checkbox"/> Chamber C	<input checked="" type="checkbox"/> Chamber F

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/2000650.htm>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\text{EIRP} = \text{PSA reading with EUT worst orientation (dBm)} + \text{Path loss (dB)} - \text{cable loss (between the SG and substitution antenna)} + \text{Substitution Antenna Factor (dBi)}$$

$$\text{ERP} = \text{PSA reading with EUT worst orientation (dBm)} + \text{Path loss (dB)} - \text{cable loss (between the SG and substitution antenna)}$$

(Path loss = Signal generator output – PSA reading with substitution antenna)

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 18000 MHz	4.94 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/CDMA/WCDMA/LTE Phone + Bluetooth, DTS/UNII a/b/g/n/ac and NFC.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted and radiated ERP / EIRP output powers as follows:

FCC Part 22/24						
Band	Frequency Range(MHz)	Modulation Peak	Conducted		Radiated	
			Peak (dBm)	Peak (mW)	Peak (dBm)	Peak (mW)
GSM850	824~849	GMSK	32.6	1819.70		
	824~849	GPRS	32.6	1819.70	28.741	748.34
	824~849	EGPRS	27.7	588.84	24.601	288.47
GSM1900	1850~1910	GMSK	30.2	1047.3		
	1850~1910	GPRS	30.1	1023.30	28.77	753.36
	1850~1910	EGPRS	26.1	407.38	24.52	283.14

FCC Part 22/24/90						
Band	Frequency Range(MHz)	Modulation Peak	Conducted		Radiated	
			Avg (dBm)	Avg (mW)	Avg (dBm)	Avg (mW)
Band 5	824~849	REL99	23.7	234.42	20.901	123.06
	824~849	HSDPA	23.7	234.42	20.741	118.6
	824~849	HSUPA	23.1	204.17		
Band 2	1850~1910	REL99	23.7	234.42	21.82	152.05
	1850~1910	HSDPA	23.7	234.42	21.71	148.25
	1850~1910	HSUPA	23.7	234.42		
BC10	816~824	1xRTT	25.2	331.13	22.75	188.36
	816~824	EVDO REL. 0	25.2	331.13	22.87	193.64
	816~824	EVDO REV. A	25.2	331.13		
BC0	824~849	1xRTT	25.5	354.81	21.03	126.76
	824~849	EVDO REL. 0	25.5	354.81	20.50	112.20
	824~849	EVDO REV. A	25.5	354.81		
BC1	1850~1910	1xRTT	24.7	295.12	23.08	203.23
	1850~1910	EVDO REL. 0	24.9	309.02	22.88	194.08
	1850~1910	EVDO REV. A	24.9	309.02		

5.3. MAXIMUM OUTPUT POWER (LTE)

The transmitter has a maximum peak conducted and radiated ERP/EIRP output powers as follows:

FCC Part 27							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation Peak	Conducted		Radiated	
				Avg (dBm)	Avg (mW)	Avg (dBm)	Avg (mW)
LTE41	2496~2690	20MHz	QPSK	24.2	263.02	22.87	193.64
	2496~2690	20MHz	16QAM	23.2	208.92	20.37	108.89

FCC Part 27							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation Peak	Conducted		Radiated	
				Avg (dBm)	Avg (mW)	Avg (dBm)	Avg (mW)
LTE41	2496~2690	15MHz	QPSK	24.2	263.02	22.13	163.31
	2496~2690	15MHz	16QAM	23.2	208.92	20.81	120.5

FCC Part 22/2 4/27							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation Peak	Conducted		Radiated	
				Avg (dBm)	Avg (mW)	Avg (dBm)	Avg (mW)
LTE41	2496~2690	10MHz	QPSK	24.2	263.02	22.55	179.89
	2496~2690	10MHz	16QAM	23.2	208.92	20.74	118.58

FCC Part 22							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation Peak	Conducted		Radiated	
				Avg (dBm)	Avg (mW)	Avg (dBm)	Avg (mW)
LTE26	824~849	10MHz	QPSK	23.7	234.42	19.8015	95.83
	824~849	10MHz	16QAM	22.7	186.20	18.851	76.75

FCC Part 90							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation Peak	Conducted		Radiated	
				Avg (dBm)	Avg (mW)	Avg (dBm)	Avg (mW)
LTE26	814~824	10MHz	QPSK	23.7	234.42	17.996	63.04
	814~824	10MHz	16QAM	22.7	186.20	19.146	82.15

FCC Part 22							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation Peak	Conducted		Radiated	
				Avg (dBm)	Avg (mW)	Avg (dBm)	Avg (mW)
LTE26	824~849	5MHz	QPSK	23.7	234.42	19.905	97.84
	824~849	5MHz	16QAM	22.7	186.20	18.915	77.89

FCC Part 90							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation Peak	Conducted		Radiated	
				Avg (dBm)	Avg (mW)	Avg (dBm)	Avg (mW)
LTE26	814~824	5MHz	QPSK	23.7	234.42	20.406	109.8
	814~824	5MHz	16QAM	22.7	186.20	19.266	84.45

FCC Part 22							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation Peak	Conducted		Radiated	
				Avg (dBm)	Avg (mW)	Avg (dBm)	Avg (mW)
LTE26	814~849	3MHz	QPSK	23.7	234.42	18.931	78.18
	814~849	3MHz	16QAM	22.7	186.20	18.081	64.28

FCC Part 90							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation Peak	Conducted		Radiated	
				Avg (dBm)	Avg (mW)	Avg (dBm)	Avg (mW)
LTE26	814~824	3MHz	QPSK	23.7	234.42	20.506	112.36
	814~824	3MHz	16QAM	22.7	186.20	19.436	87.82

FCC Part 22							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation Peak	Conducted		Radiated	
				Avg (dBm)	Avg (mW)	Avg (dBm)	Avg (mW)
LTE26	824~849	1.4MHz	QPSK	23.7	234.42	19.275	84.63
	824~849	1.4MHz	16QAM	22.7	186.20	18.175	65.69

FCC Part 90							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation Peak	Conducted		Radiated	
				Avg (dBm)	Avg (mW)	Avg (dBm)	Avg (mW)
LTE26	814~824	1.4MHz	QPSK	23.7	234.42	18.036	63.62
	814~824	1.4MHz	16QAM	22.7	186.20	17.486	56.05

FCC Part 22/2 4/27							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation Peak	Conducted		Radiated	
				Avg (dBm)	Avg (mW)	Avg (dBm)	Avg (mW)
LTE25	1850~1915	10MHz	QPSK	23.7	234.42	22.68	185.35
	1850~1915	10MHz	16QAM	22.7	186.20	21.31	135.21

FCC Part 22/2 4/27							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation Peak	Conducted		Radiated	
				Avg (dBm)	Avg (mW)	Avg (dBm)	Avg (mW)
LTE25	1850~1915	5MHz	QPSK	23.7	234.42	22.79	190.11
	1850~1915	5MHz	16QAM	22.5	177.82	21.28	134.28

FCC Part 22/2 4/27							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation Peak	Conducted		Radiated	
				Avg (dBm)	Avg (mW)	Avg (dBm)	Avg (mW)
LTE25	1850~1915	3MHz	QPSK	23.7	234.42	22.9	194.98
	1850~1915	3MHz	16QAM	22.7	186.20	21.88	154.17

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a PIFA antenna for the [List the bands supported] with a maximum peak gain as follow:

Frequency (MHz)	Peak Gain (dBi)
Band 5, 824~849MHz	
Band 2, 1850~1910MHz	
LTE25, 1850~1915MHz	
LTE26, 814~849MHz	
LTE41, 2496~2690MHz	

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	LG	MCS-04WT2	TA350000050	N/A
Earphone	LG	N/A	N/A	N/A
WPC Back Cover	LG	N/A	N/A	N/A
WPC Charger	LG	WPC-300	304HYBF00069	BEJWCP300

I/O CABLES (CONDUCTED SETUP)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	RF Out	1	Spectrum Analyzer	Shielded	None	NA
2	Antenna Port	1	EUT	Shielded	0.1m	NA
3	RF In/Out	1	Communication Test Set	Shielded	1m	NA

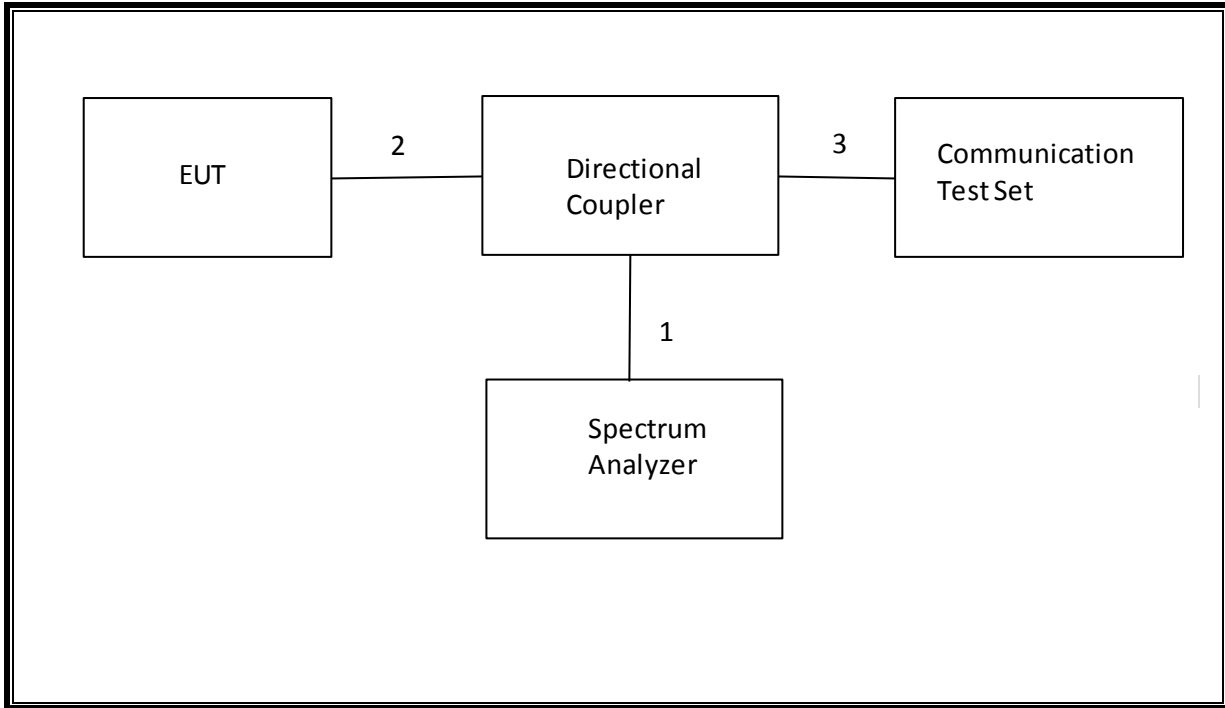
I/O CABLES (RADIATED SETUP)

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	USB	1	AC Adapter	Un-shielded	1.2m	No
2	Jack	1	Headset	Shielded	1m	No
3	RF In/out	1	Communication Test Set	Un-shielded	2m	Yes

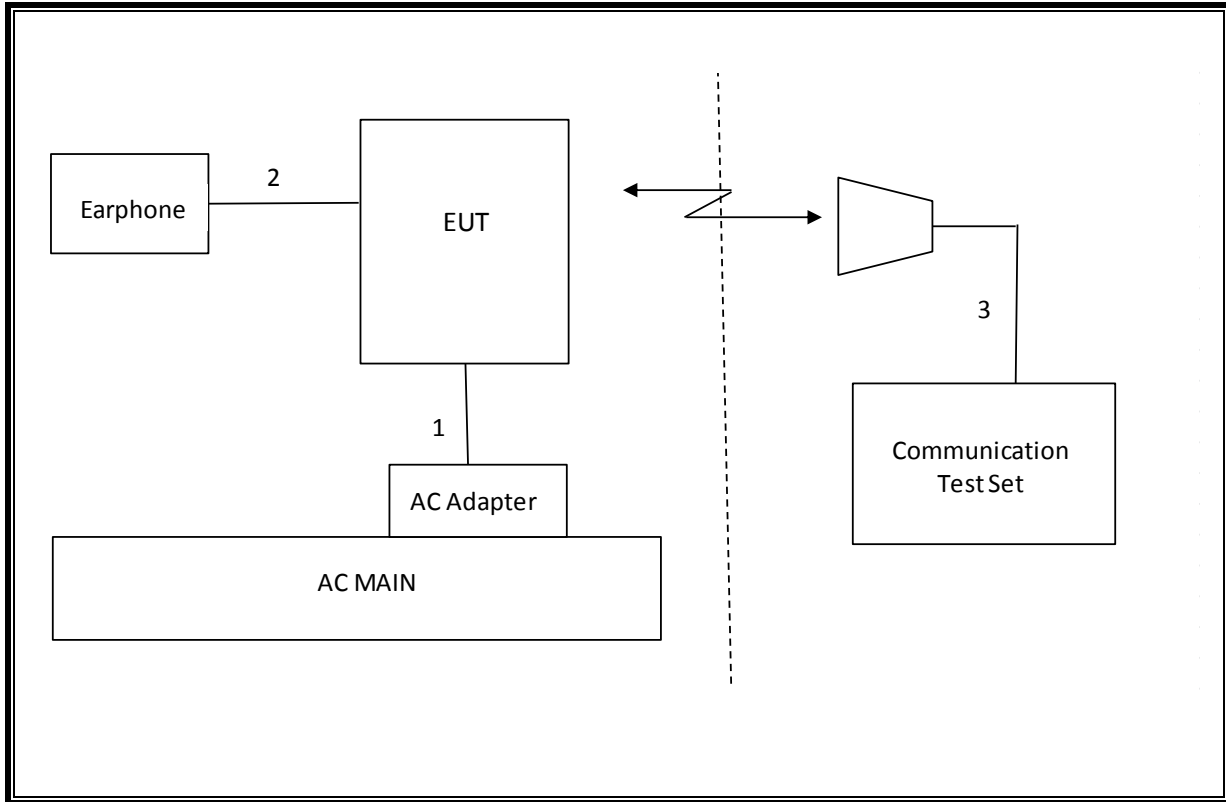
TEST SETUP

The EUT is continuously communicated to the call box during the tests.

SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Asset	Cal Due
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01179	02/26/15
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01011	08/14/14
Antenna, Horn, 18 GHz	EMCO	3115	C00783	10/25/14
Antenna, Horn, 18 GHz	EMCO	3115	C00784	09/25/14
Highpass Filter, 2.7 GHz	Micro-Tronics	HPM13194	N02687	CNR
Highpass Filter, 1.5 GHz	Micro-Tronics	HPM13193	N02688	CNR
Temperature / Humidity Chamber	Thermotron	SE 600-10-10	C00930	01/09/15
Communications Test Set	R&S	CMW500	T159	07/02/14
DC power supply, 8 V @ 3 A or 15 V	Agilent / HP	E3610A	None	CNR
Vector signal generator, 6 GHz	Agilent / HP	E4438C	None	07/06/14
Antenna, Tuned Dipole 400~1000	ETS	3121C DB4	C00993	02/14/15
Antenna, Horn, 25.5 GHz	ARA	MWH-1826/B	C00980	11/14/14
Directional Coupler	RF-Lambda	RFDC5M06G15	None	CNR
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00980	11/14/14

7. Summary Table

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Worst Case
22.917(a) 24.238(a)	N/A	Occupied Band width (99%)	N/A	Conducted	Pass	see original
22.917(a) 24.238(a) 27.53(g) 90.691	RSS-132(4.5.1) RSS-133(6.5.1) RSS-139(6.5.1)	Band Edge / Conducted Spurious Emission	-13dBm		Pass	see original
2.1046	N/A	Conducted output power	N/A		Pass	32.6dBm
27.53(g) 90.691	RSS-139(6.5.1)	Emission Mask	-13dBm		Pass	see original
22.355 24.235 27.54	RSS-132(4.3) RSS-133(6.3) RSS-139(6.3)	Frequency Stability	2.5PPM		Pass	see original
22.913(a)(2) 90.635	RSS-132(4.4)	Effective Radiated Power	38 dBm		Pass	28.74dBm
			50dBm	Pass	20.406dBm	
24.232(c)	RSS-133(6.4) RSS-139(6.4)	Equivalent Isotropic Radiated Power	33dBm	Radiated	Pass	28.77dBm
22.917(a) 24.238(a) 27.53(g)	RSS-132(4.5.1) RSS-133(6.5.1) RSS-139(6.5.1)	Radiated Spurious Emission	-13dBm		Pass	-21.5dBm

8. RF POWER OUTPUT VERIFICATION

8.1. GSM/GPRS/EDGE

Function: Menu select > GSM Mobile Station > GSM 850/900/1800/1900

Press Connection control to choose the different menus

Press RESET > choose all to reset all settings

Connection Press Signal Off to turn off the signal and change settings

Network Support > GSM+GPRS or GSM+EGPRS

Main Service > Packet Data

Service selection > Test Mode A – Auto Slot Config. off

MS Signal Press Slot Config bottom on the right twice to select and change the number of time slots and power setting

- > Slot configuration > Uplink/Gamma
- > 33 dBm for GPRS 850/900
- > 30 dBm for GPRS1800/1900

BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel

Frequency Offset > + 0 Hz

Mode > BCCH and TCH

BCCH Level > -85 dBm (May need to adjust if link is not stable)

BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]

Channel Type > Off

P0> 4 dB

Slot Config > Unchanged (if already set under MS Signal)

TCH > choose desired test channel

Hopping > Off

Main Timeslot > 3 (Default)

Network Coding Scheme > CS4 (GPRS) and MCS5 ~ MCS9 (EGPRS)

- Bit Stream > 2E9-1PSR Bit Pattern

AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input

Connection Press Signal On to turn on the signal and change settings

8.1.1. GSM OUTPUT POWER RESULT

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Burst Pwr (dBm)
GSM (Voice)	CS1	1	128	824.2	32.6
			190	836.6	32.6
			251	848.8	32.6
GPRS (GMSK)	CS1	1	128	824.2	32.6
			190	836.6	32.6
			251	848.8	32.6
		2	128	824.2	31.5
			190	836.6	31.5
			251	848.8	31.5
EGPRS (8PSK)	MCS5	1	128	824.2	27.6
			190	836.6	27.6
			251	848.8	27.7
		2	128	824.2	27.4
			190	836.6	27.4
			251	848.8	27.5

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Burst Pwr (dBm)
GSM (Voice)	CS1	1	512	1850.2	30.2
			661	1880.0	30.1
			810	1909.8	30.1
GPRS (GMSK)	CS1	1	512	1850.2	30.1
			661	1880.0	30.0
			810	1909.8	30.1
		2	512	1850.2	28.7
			661	1880.0	28.7
			810	1909.8	28.7
EGPRS (8PSK)	MCS5	1	512	1850.2	26.1
			661	1880.0	26.0
			810	1909.8	26.0
		2	512	1850.2	26.0
			661	1880.0	25.9
			810	1909.8	26.0

8.2. UMTS REL 99

TEST PROCEDURE

The following summary of these settings are illustrated below:

	Mode	Rel99
	Subtest	-
WCDMA General Settings	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2kbps RMC
	HSDPA FRC	Not Applicable
	HSUPA Test	Not Applicable
	Power Control Algorithm	Algorithm2
	β_c	Not Applicable
	β_d	Not Applicable
	β_{ec}	Not Applicable
	β_c/β_d	8/15
	β_{hs}	Not Applicable
	β_{ed}	Not Applicable

8.2.1. UMTS REL 99 OUTPUT POWER RESULT

Band	Mode	Ch.	f(MHz)	Conducted Power (dBm)
				Avg (dBm)
Band 5	REL99	4132	826.4	23.5
		4183	836.6	23.7
		4233	846.6	23.7
Band 2	REL99	9262	1852.4	23.7
		9400	1880	23.7
		9538	1907.6	23.7

8.3. UMTS HSDPA

The following 4 Sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

	Mode	Rel5 HSDPA			
	Subtest	1	2	3	4
WCDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set1			
	Power Control Algorithm	Algorithm 2			
	β_c	2/15	12/15	15/15	15/15
	β_d	15/15	15/15	8/15	4/15
	Bd (SF)	64			
	β_c/β_d	2/15	12/15	15/8	15/4
	β_{hs}	4/15	24/15	30/15	30/15
	MPR (dB)	0	0	0.5	0.5
HSDPA Specific Settings	D_{ACK}	8			
	D_{NAK}	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback (Table 5.2B.4)	4ms			
	CQI Repetition Factor (Table 5.2B.4)	2			
	$A_{hs} = \beta_{hs}/\beta_c$	30/15			

8.3.1. UMTS HSDPA OUTPUT POWER RESULT

Band	Mode	Subset	Ch.	f(MHz)	Conducted Power (dBm)
					Avg (dBm)
Band 5	HSDPA	1	4132	826.4	23.6
			4183	836.6	23.7
			4233	846.6	23.7
		2	4132	826.4	23.7
			4183	836.6	23.7
			4233	846.6	23.7
		3	4132	826.4	23.2
			4183	836.6	23.2
			4233	846.6	23.2
		4	4132	826.4	23.2
			4183	836.6	23.2
			4233	846.6	23.2
Band 2	HSDPA	1	9262	1852.4	23.7

			9400	1880	23.7
			9538	1907.6	23.6
		2	9262	1852.4	23.7
			9400	1880	23.7
			9538	1907.6	23.6
		3	9262	1852.4	23.2
			9400	1880	23.2
			9538	1907.6	23.2
		4	9262	1852.4	23.2
			9400	1880	23.2
			9538	1907.6	23.2

8.3.2. UMTS HSUPA

TEST PROCEDURE

The following summary of these settings are illustrated below: (ETSI TS 134.121-1 Table C.11.1)

	Mode	Rel6 HSUPA	Rel6 HSUPA	Rel6 HSUPA	Rel6 HSUPA	Rel6 HSUPA
	Subtest	1	2	3	4	5
WCDMA General Settings	Loopback Mode	Test Mode 1				
	P-CPICH (dB)	-10				
	P-CCPCH (dB)	-12				
	SCH (dB)	-12				
	PICH(dB)	-15				
	DPCH (dB)	-9				
	HS-SCCH_1 (dB)	-8				
	HS-PDSCH (dB)	-3				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	Bc	11/15	6/15	15/15	2/15	15/15
	Bd	15/15	15/15	9/15	15/15	15/15
	Bec	209/225	12/15	30/15	2/15	5/15
	β_c/β_d	11/15	6/15	15/9	2/15	15/15
	Bhs	22/15	12/15	30/15	4/15	30/15
β_{ed} (note1)	1309/225	94/75	47/15 47/15	56/75	134/15	
MPR	0	2	1	2	0	
HSDPA Specific Settings	DACK	8				
	DNAK	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback (Table 5.2B.4)	4ms				
	CQI Repetition Factor (Table 5.2B.4)	2				
	Ahs = β_{hs}/β_c	30/15				
HSUPA Specific Settings	D E-DPCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	21
	Reference E-TFCIs	5	5	2	5	5
	ETFCI (from 34.121 Table C.11.1.3)	75	67	92	71	81
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9
	Reference E_TFCIs	E-TFCI 11 E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO 23 E-TFCI 75 E-TFCI PO 26 E-TFCI 81 E-TFCI PO 27		E-TFCI 11 E-TFCI PO 4 E-TFCI 92 E-TFCI PO 18		E-TFCI 11 E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO 23 E-TFCI 75 E-TFCI PO 26 E-TFCI 81 E-TFCI PO 27

Note1: β_{ed} cannot be set directly, it is set by Absolute Grant Value.

8.3.3. UMTS HSUPA OUTPUT POWER RESULT

Band	Mode	Subset	Ch.	f(MHz)	Conducted Power (dBm)
					Avg (dBm)
Band 5	HSUPA	1	4132	826.4	23.1
			4183	836.6	22.9
			4233	846.6	22.9
		2	4132	826.4	22.1
			4183	836.6	22.2
			4233	846.6	22.1
		3	4132	826.4	22.5
			4183	836.6	22.4
			4233	846.6	22.4
		4	4132	826.4	22.4
			4183	836.6	22.5
			4233	846.6	22.4
		5	4132	826.4	23.7
			4183	836.6	23.7
			4233	846.6	23.7
Band 2	HSUPA	1	9262	1852.4	23.5
			9400	1880	23.7
			9538	1907.6	23.6
		2	9262	1852.4	21.7
			9400	1880	21.7
			9538	1907.6	21.7
		3	9262	1852.4	22.4
			9400	1880	22.7
			9538	1907.6	22.5
		4	9262	1852.4	21.7
			9400	1880	22.6
			9538	1907.6	22.5
		5	9262	1852.4	23.7
			9400	1880	23.7
			9538	1907.6	23.6

8.4. CDMA2000

8.4.1. 1xRTT

TEST PROCEDURE

This procedure assumes the Agilest 8960 Test Set has the following applications installed and with valid license.

<u>Application</u>	<u>Rev, License</u>
CDMA2000 Mobile Test	B.13.08, L

- Call Setup > Shift & Preset
- Cell Info > Cell Parameters > System ID (SID) > 7
 > Network ID (NID) > 1
- Protocol Rev > 6 (IS-2000-0)
- Radio Config (RC) > Please see following table or details
- FCH Service Option (SO) Setup > Please see following table or details
- Traffic Data Rate > Full
- TDSO SCH Info > F-SCH Parameters > F-SCH Data Rate > 153.6 kbps
 > R-SCH Parameters > R-SCH Data Rate > 153.6 kbps
- Rvs Power Ctrl > Active bits
 - Rvs Power Ctrl > All Up bits (Maximum TxPout)

8.4.1. CDMA2000 OUTPUT POWER RESULT

1xRTT

Band	Mode	Ch	Freq. (MHz)	Avg Pwr (dBm)
BC0	RC1, SO55 (Loopback)	1013	824.70	25.5
		384	836.52	25.5
		777	848.31	25.4
	RC3, SO55 (Loopback)	1013	824.70	25.5
		384	836.52	25.5
		777	848.31	25.4
	RC3, SO32 (+F-SCH)	1013	824.70	25.5
		384	836.52	25.4
		777	848.31	25.4

Band	Mode	Ch	Freq. (MHz)	Avg Pwr (dBm)
BC1	RC1, SO55 (Loopback)	25	1851.25	24.6
		600	1880.00	24.7
		1175	1908.75	24.6
	RC3, SO55 (Loopback)	25	1851.25	24.6
		600	1880.00	24.6
		1175	1908.75	24.6
	RC3, SO32 (+F-SCH)	25	1851.25	24.6
		600	1880.00	24.7
		1175	1908.75	24.6

Band	Mode	Ch	Freq. (MHz)	Avg Pwr (dBm)
BC10	RC1, SO55 (Loopback)	476	817.90	25.2
		580	820.50	25.2
		684	823.10	25.2
	RC3, SO55 (Loopback)	476	817.90	25.2
		580	820.50	25.2
		684	823.10	25.2
	RC3, SO32 (+F-SCH)	476	817.90	25.2
		580	820.50	25.2
		684	823.10	25.2

8.4.2. 1xEV-DO Release 0

TEST PROCEDURE

This procedure assumes the Agilent 8960 Test Set has the following applications installed and with valid license.

<u>Application</u>	<u>Rev, License</u>
1xEV-DO Terminal Test	A.09.13

EVDO Release 0 - RTAP

- Call Setup > Shift & Preset
- Call Control:
 - Access Network Info > Cell Parameters > Sector ID > 00000000 > Subnet Mask > 0
 - Generator Info > Termination Parameters > Max Forward Packet Duration > 16 Slots
- Call Params:
 - Cell Power > -105.5 dBm/1.23 MHz
 - Cell Band > (Select US Cellular or US PCS)
 - Channel > (Enter channel number)
 - Application Config > Enhanced Test Application Protocol > RTAP
 - RTAP Rate > 153.6 kbps
 - Rvs Power Ctrl > Active bits
 - Protocol Rel > 0 (1xEV-DO)
- Press "Start Data Connection" when "Session Open" appear in "Active Cell"
- Rvs Power Ctrl > All Up bits (Maximum TxPout)

EVDO Release 0 - FTAP

- Call Setup > Shift & Preset
- Call Control:
 - Access Network Info > Cell Parameters > Sector ID > 00000000 > Subnet Mask > 0
 - Generator Info > Termination Parameters > Max Forward Packet Duration > 16 Slots
- Call Params:
 - Cell Power > -105.5 dBm/1.23 MHz
 - Cell Band > (Select US Cellular or US PCS)
 - Channel > (Enter channel number)
 - Application Config > Enhanced Test Application Protocol > FTAP (default)
 - FTAP Rate > 307.2 kbps (2 Slot, QPSK)
 - Rvs Power Ctrl > Active bits
 - Protocol Rel > 0 (1xEV-DO)
- Press "Start Data Connection" when "Session Open" appear in "Active Cell"
- Rvs Power Ctrl > All Up bits (Maximum TxPout)

8.4.1. 1XEVD0 REL 0 OUTPUT POWER RESULT

1xEv-Do Rel. 0

Band	FTAP Rate	Channel	f (MHz)	Avg Pwr (dBm)
BC0	307.2 kbps (2 slot, QPSK)	1013	824.70	25.5
		384	836.52	25.5
		777	848.31	25.5

Band	FTAP Rate	Channel	f (MHz)	Avg Pwr (dBm)
BC1	307.2 kbps (2 slot, QPSK)	25	1851.25	24.9
		600	1880.00	24.9
		1175	1908.75	24.9

Band	FTAP Rate	Channel	f (MHz)	Avg Pwr (dBm)
BC10	307.2 kbps (2 slot, QPSK)	476	817.90	25.2
		580	820.50	25.2
		684	823.10	25.2

8.4.1. 1xEV-DO Rev. A

TEST PROCEDURE

This procedure assumes the Agilent 8960 Test Set has the following applications installed and with valid license.

<u>Application</u>	<u>Rev, License</u>
1xEV-DO Terminal Test	A.09.13

EVDO Release A – RETAP

- Call Setup > Shift & Preset
- Cell Power > -60 dBm/1.23 MHz
- Protocol Rev > A (1xEV-DO-A)
- Application Config > Enhanced Test Application Protocol > RETAP
- R-Data Pkt Size > 4096
- Protocol Subtype Config > Release A Physical Layer Subtype > Subtype 2
- > PL Subtype 2 Access Channel MAC Subtype > Default (Subtype 0)
- Access Network Info > Cell Parameters > Sector ID > 00000000 > Subnet Mask > 0
- Generator Info > Termination Parameters > Max Forward Packet Duration >16 Slots > ACK R-Data After > Subpacket 0 (All ACK)
- Rvs Power Ctrl > All Up bits (to get the maximum power)

EVDO Release A - FETAP

- Call Setup > Shift & Preset
- Cell Power > -60 dBm/1.23 MHz
- Protocol Rev > A (1xEV-DO-A)
- Application Config > Enhanced Test Application Protocol > FETAP
- F-Traffic Format > 4 (1024, 2,128) Canonical (307.2k, QPSK)
- Protocol Subtype Config > Release A Physical Layer Subtype > Subtype 2
- > PL Subtype 2 Access Channel MAC Subtype > Default (Subtype 0)
- Access Network Info > Cell Parameters > Sector ID > 00000000 > Subnet Mask > 0
- Generator Info > Termination Parameters > Max Forward Packet Duration >16 Slots > ACK R-Data After > Subpacket 0 (All ACK)
- Rvs Power Ctrl > All Up bits (to get the maximum power)

8.4.2. 1xEVDO REV A OUTPUT RESULT**1xEv-Do Rev. A**

Band	FETAP Traffic Format	Channel	f (MHz)	Avg Pwr (dBm)
BC0	307.2k, QPSK/ ACK channel is transmitted at all the slots	1013	824.70	25.5
		384	836.52	25.5
		777	848.31	25.5

Band	FETAP Traffic Format	Channel	f (MHz)	Avg Pwr (dBm)
BC1	307.2k, QPSK/ ACK channel is transmitted at all the slots	25	1851.25	24.9
		600	1880.00	24.9
		1175	1908.75	24.9

Band	FETAP Traffic Format	Channel	f (MHz)	Avg Pwr (dBm)
BC10	307.2k, QPSK/ ACK channel is transmitted at all the slots	476	817.90	25.2
		580	820.50	25.2
		684	823.10	25.2

8.5. LTE OUTPUT VERIFICATION

8.5.1. LTE OUTPUT RESULT

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						26090	26365	26640
						1855 MHz	1882.5 MHz	1910 MHz
LTE Band 25	10	QPSK	1	0	0	23.5	23.7	23.5
			1	25	0	23.6	23.5	23.5
			1	49	0	23.7	23.6	23.6
			25	0	1	22.7	22.4	22.6
			25	12	1	22.7	22.4	22.6
			25	25	1	22.7	22.7	22.6
			50	0	1	22.4	22.5	22.6
		16QAM	1	0	1	22.3	22.7	22.2
			1	25	1	22.4	22.0	22.2
			1	49	1	22.4	22.7	22.3
			25	0	2	21.6	21.7	21.6
			25	12	2	21.6	21.7	21.6
			25	25	2	21.6	21.6	21.6
			50	0	2	21.6	21.7	21.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						26065	26365	26665
						1852.5 MHz	1882.5 MHz	1912.5 MHz
LTE Band 25	5	QPSK	1	0	0	23.5	23.6	23.6
			1	12	0	23.7	23.7	23.7
			1	24	0	23.7	23.6	23.5
			12	0	1	22.6	22.4	22.5
			12	7	1	22.7	22.7	22.6
			12	13	1	22.7	22.7	22.7
			25	0	1	22.7	22.7	22.6
		16QAM	1	0	1	22.2	22.3	22.3
			1	12	1	22.3	22.3	22.4
			1	24	1	22.4	22.4	22.5
			12	0	2	21.6	21.7	21.5
			12	7	2	21.6	21.7	21.5
			12	13	2	21.7	21.6	21.6
			25	0	2	21.7	21.4	21.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						26055	26365	26675
						1851.5 MHz	1882.5 MHz	1913.5 MHz
LTE Band 25	3	QPSK	1	0	0	23.6	23.6	23.6
			1	8	0	23.5	23.7	23.6

			1	14	0	23.7	23.7	23.7	
			8	0	1	22.7	22.5	22.3	
			8	4	1	22.7	22.5	22.3	
			8	7	1	22.7	22.3	22.4	
			15	0	1	22.7	22.4	22.4	
	16QAM			1	0	1	22.3	22.1	22.3
				1	8	1	22.3	22.0	22.4
				1	14	1	22.4	22.7	22.4
				8	0	2	21.6	21.5	21.7
				8	4	2	21.6	21.5	21.7
				8	7	2	21.6	21.5	21.7
				15	0	2	21.6	21.3	21.7

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						26740	26865	26990
						819 MHz	831.5 MHz	844 MHz
LTE Band 26	10	QPSK	1	0	0	23.7	23.7	23.7
			1	25	0	23.7	23.6	23.7
			1	49	0	23.7	23.6	23.7
			25	0	1	22.5	22.7	22.5
			25	12	1	22.4	22.7	22.4
			25	25	1	22.4	22.5	22.4
		16QAM	50	0	1	22.5	22.7	22.5
			1	0	1	22.5	22.7	22.4
			1	25	1	22.5	22.7	22.4
			1	49	1	22.5	22.1	22.3
			25	0	2	21.7	21.7	21.3
			25	12	2	21.7	21.7	21.3
			25	25	2	21.7	21.3	21.2
50	0	2	21.7	21.7	21.4			
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						26715	26865	27015
						816.5 MHz	831.5 MHz	846.5 MHz
LTE Band 26	5	QPSK	1	0	0	23.4	23.4	23.6
			1	12	0	23.4	23.7	23.7
			1	24	0	23.7	23.5	23.5
			12	0	1	22.4	22.4	22.5
			12	7	1	22.4	22.3	22.4
			12	13	1	22.3	22.7	22.4
		16QAM	25	0	1	22.4	22.4	22.4
			1	0	1	22.4	22.5	22.2
			1	12	1	22.4	22.5	22.2
			1	24	1	22.5	22.7	22.2

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						26705	26865	27025
						815.5 MHz	831.5 MHz	847.5 MHz
			12	0	2	21.2	21.7	21.7
			12	7	2	21.3	21.7	21.7
			12	13	2	21.3	21.7	21.7
			25	0	2	21.4	21.7	21.6
LTE Band 26	3	QPSK	1	0	0	23.6	23.5	23.7
			1	8	0	23.7	23.7	23.6
			1	14	0	23.6	23.5	23.7
			8	0	1	22.3	22.4	22.4
			8	4	1	22.4	22.3	22.4
			8	7	1	22.4	22.5	22.3
			15	0	1	22.4	22.4	22.4
		16QAM	1	0	1	22.5	22.0	22.5
			1	8	1	22.5	22.7	22.4
			1	14	1	22.5	22.1	22.4
			8	0	2	21.3	21.5	21.7
			8	4	2	21.2	21.5	21.7
			8	7	2	21.2	21.5	21.7
			15	0	2	21.7	21.7	21.7
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						26697	26865	27033
						814.7 MHz	831.5 MHz	848.3 MHz
LTE Band 26	1.4	QPSK	1	0	0	23.5	23.7	23.7
			1	3	0	23.5	23.7	23.7
			1	5	0	23.5	23.5	23.5
			3	0	0	23.7	23.7	23.7
			3	1	0	23.7	23.7	23.7
			3	3	0	23.7	23.7	23.7
			6	0	1	22.5	22.4	22.6
		16QAM	1	0	1	22.7	22.3	22.6
			1	3	1	22.6	22.3	22.6
			1	5	1	22.7	22.6	22.6
			3	0	1	22.6	22.7	22.5
			3	1	1	22.5	22.7	22.5
			3	3	1	22.6	22.7	22.5
			6	0	2	21.3	21.3	21.4

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						39750	40620	41490
						2506 MHz	2593 MHz	2680 MHz
LTE Band 41	20	QPSK	1	0	0	24.2	24.2	24.2
			1	49	0	24.2	24.1	24.2
			1	99	0	24.2	24.0	24.1
			50	0	1	23.2	23.2	23.0
			50	24	1	23.2	23.2	23.0
			50	50	1	23.2	23.1	23.2
		16QAM	100	0	1	23.2	23.2	23.0
			1	0	1	23.1	22.7	23.2
			1	49	1	23.0	22.7	23.2
			1	99	1	23.1	22.5	23.2
			50	0	2	22.2	22.1	22.2
			50	24	2	22.2	22.1	22.0
			50	50	2	22.2	22.1	22.2
			100	0	2	22.2	22.2	22.1
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						39725	40620	41515
						2503.5 MHz	2593 MHz	2682.5 MHz
LTE Band 41	15	QPSK	1	0	0	24.1	24.2	24.1
			1	37	0	24.1	24.2	24.2
			1	74	0	24.2	24.2	24.2
			36	0	1	23.0	23.2	23.0
			36	20	1	23.1	23.0	23.1
			36	39	1	23.1	23.2	23.1
		16QAM	75	0	1	23.1	23.1	23.1
			1	0	1	23.2	23.1	23.1
			1	37	1	23.2	23.0	23.2
			1	74	1	23.2	23.0	23.2
			36	0	2	22.1	22.1	22.1
			36	20	2	22.1	22.2	22.1
			36	39	2	22.1	22.2	22.2
			75	0	2	22.0	22.1	22.0
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						39700	40620	41540
						2501 MHz	2593 MHz	2685 MHz
LTE Band 41	10	QPSK	1	0	0	24.2	24.2	23.9
			1	25	0	24.1	24.2	24.1
			1	49	0	24.2	24.2	24.1
			25	0	1	23.0	23.1	23.1
			25	12	1	23.1	23.1	23.1
			25	25	1	23.1	23.1	23.1

			50	0	1	23.2	23.1	23.2
		16QAM	1	0	1	23.1	23.1	23.2
			1	25	1	23.1	23.0	23.2
			1	49	1	23.2	22.9	23.2
			25	0	2	22.0	22.0	22.0
			25	12	2	22.0	21.9	22.1
			25	25	2	22.1	21.9	22.0
			50	0	2	22.0	22.1	22.1

9. RADIATED TEST RESULTS

9.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27 and § 90.635.

LIMITS

22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

24.232(c) - Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13dB.

TEST PROCEDURE

ANSI / TIA / EIA 603C Clause 2.2.17

TEST RESULTS

9.1.1. ERP/EIRP Results

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
Band 2	REL99	9262	1852.4	20.12	102.8
		9400	1880	21.16	130.62
		9538	1907.6	21.82	152.05
	HSDPA	9262	1852.4	20.58	114.29
		9400	1880	21.28	134.28
		9538	1907.6	21.71	148.25

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
Band 5	REL99	4132	826.4	20.421	110.18
		4183	836.6	20.901	123.06
		4233	846.6	19.971	99.33
	HSDPA	4132	826.4	20.741	118.6
		4183	836.6	20.681	116.98
		4233	846.6	20.441	110.69

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
GSM1900	GPRS	512	1850.2	28.77	753.36
		661	1880	27.28	534.56
		810	1909.8	28.15	653.13
	EGPRS	512	1850.2	23.53	225.42
		661	1880	23.79	239.33
		810	1909.8	24.52	283.14

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
GSM850	GPRS	128	824.2	27.371	545.88
		190	836.6	28.271	671.58
		251	848.8	28.741	748.34
	EGPRS	128	824.2	24.141	259.48
		190	836.6	24.191	262.48
		251	848.8	24.601	288.47

9.1.2. CDMA ERP/EIRP Results

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC1	1xRTT	25	1851.25	22.93	196.33
		600	1880	23.08	203.23
		1175	1908.75	22.94	196.78
	EVDO REL. 0	25	1851.25	22.26	168.26
		600	1880	22.88	194.08
		1175	1908.75	22.49	177.41

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC0	1xRTT	1013	824.7	21.03	126.76
		384	836.52	20.50	112.20
		777	848.31	20.73	118.30
	EVDO REL. 0	1013	824.7	20.50	112.20
		384	836.52	20.17	103.99
		777	848.31	20.15	103.51

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC10	1xRTT	476	817.9	22.66	184.50
		580	820.5	22.04	159.95
		684	823.1	22.75	188.36
	EVDO REL. 0	476	817.9	20.37	108.89
		580	820.5	21.85	153.10
		684	823.1	22.87	193.64

9.1.3. LTE ERP/EIRP Results

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE41	20	QPSK	1/0	2506	22.47	176.6
			1/0	2593	22.87	193.64
			1/0	2680	23.04	201.37
		16QAM	1/0	2506	19.79	95.28

			1/0	2593	19.51	89.33
			1/0	2680	20.37	108.89

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE41	15	QPSK	1/0	2503.5	21.51	141.58
			1/0	2593	22.38	172.98
			1/0	2682.5	22.13	163.31
		16QAM	1/0	2503.5	20.81	120.5
			1/0	2593	20.75	118.85
			1/0	2682.5	20.53	112.98

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE41	10	QPSK	1/0	2501	21.99	158.12
			1/0	2593	22.55	179.89
			1/0	2685	21.47	140.28
		16QAM	1/0	2501	20.74	118.58
			1/0	2593	20.67	116.68
			1/0	2685	20.45	110.92

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	10	QPSK	1/0	819	17.996	63.04
			1/0	831.5	19.815	95.83
			1/0	844	19.601	91.22
		16QAM	1/0	819	19.146	82.15
			1/0	831.5	18.825	76.3
			1/0	844	18.851	76.75

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP
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					dBm	mW
LTE26	5	QPSK	1/0	816.5	20.406	109.8
			1/0	831.5	19.905	97.84
			1/0	846.5	19.561	90.39
		16QAM	1/0	816.5	19.266	84.45
			1/0	831.5	18.915	77.89
			1/0	846.5	18.071	64.14

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	3	QPSK	1/0	815.5	20.506	112.36
			1/0	831.5	16.705	46.83
			1/0	847.5	18.931	78.18
		16QAM	1/0	815.5	19.436	87.82
			1/0	831.5	15.565	36.02
			1/0	847.5	18.081	64.28

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	1.4	QPSK	1/0	814.7	18.036	63.62
			1/0	831.5	19.275	84.63
			1/0	848.3	17.051	50.71
		16QAM	1/0	814.7	17.486	56.05
			1/0	831.5	18.175	65.69
			1/0	848.3	16.571	45.4

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	10	QPSK	1/0	1855	21.25	133.35
			1/0	1882.5	22.68	185.35
			1/0	1910	21.95	156.68

		16QAM	1/0	1855	19.85	96.61
			1/0	1882.5	21.31	135.21
			1/0	1910	20.74	118.58

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	5	QPSK	1/0	1852.5	21.27	133.97
			1/0	1882.5	22.79	190.11
			1/0	1912.5	21.92	155.60
		16QAM	1/0	1852.5	19.72	93.54
			1/0	1882.5	21.28	134.28
			1/0	1912.5	20.87	122.18

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	3	QPSK	1/0	1851.5	21.09	128.53
			1/0	1882.5	22.9	194.98
			1/0	1913.5	22.18	165.2
		16QAM	1/0	1851.5	19.78	95.06
			1/0	1882.5	21.88	154.17
			1/0	1913.5	20.87	122.18

9.1.4. ERP/EIRP DATA

Band LTE41 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B								
	Company: LG Electronics Project #: 14U17501 Date: 5/30/14 Test Engineer: D. Soper Configuration: EUT ONLY / Y Orientation Mode: LTE B41 20MHz 16QAM								
	Test Equipment: Receiving: Horn T345, and Chamber B SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	2506.00	11.14	V	0.9	9.5	19.79	33.0	-13.2	
	2506.00	9.20	H	0.9	9.5	17.85	33.0	-15.2	
	Mid Ch								
	2593.00	10.86	V	0.9	9.5	19.51	33.0	-13.5	
	2593.00	9.24	H	0.9	9.5	17.89	33.0	-15.1	
	High Ch								
	2680.00	11.62	V	0.9	9.6	20.37	33.0	-12.6	
	2680.00	9.62	H	0.9	9.6	18.37	33.0	-14.6	
	Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								

Band LTE41 20MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B									
	Company: LG Electronics Project #: 14U17501 Date: 5/30/14 Test Engineer: D. Soper Configuration: EUT ONLY / Y Orientation Mode: LTE B41 20MHz QPSK									
	Test Equipment: Receiving: Horn T345, and Chamber B SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	
	Low Ch									
	2506.00	13.82	V	0.9	9.5	22.47	33.0	-10.5		
	2506.00	9.47	H	0.9	9.5	18.12	33.0	-14.9		
	Mid Ch									
	2593.00	14.22	V	0.9	9.5	22.87	33.0	-10.1		
	2593.00	12.36	H	0.9	9.5	21.01	33.0	-12.0		
High Ch										
2680.00	14.29	V	0.9	9.6	23.04	33.0	-10.0			
2680.00	9.19	H	0.9	9.6	17.94	33.0	-15.1			
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm										

Band LTE41 15MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C																																																																																																		
	Company: LG Electronics																																																																																																		
	Project #: 14U17501																																																																																																		
	Date: 5/30/14																																																																																																		
	Test Engineer: D. Soper																																																																																																		
	Configuration: EUT ONLY / Y-orientation																																																																																																		
	Mode: LTE B41 15MHz 16QAM																																																																																																		
	Test Equipment:																																																																																																		
	Receiving: Horn T119, and Chamber C SMA Cables																																																																																																		
	Substitution: Horn T60 Substitution, 4ft SMA Cable Warehouse																																																																																																		
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	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																										
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2593.00	12.10	V	0.9	9.5	20.75	33.0	-12.3																																																																																												
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Rev. 3.17.11																																																																																																			
Note: For Band 4 EIRP limit is 30dBm																																																																																																			

Band LTE41 15MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company: LG Electronics Project #: 14U17501 Date: 5/30/14 Test Engineer: D. Soper Configuration: EUT ONLY / Y-orientation Mode: LTE B41 15MHz QPSK								
	Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T60 Substitution, 4ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	2503.50	12.86	V	0.9	9.5	21.51	33.0	-11.5	
	2503.50	10.06	H	0.9	9.5	18.71	33.0	-14.3	
	Mid Ch								
	2593.00	13.73	V	0.9	9.5	22.38	33.0	-10.6	
	2593.00	7.32	H	0.9	9.5	15.97	33.0	-17.0	
High Ch									
2682.50	13.38	V	0.9	9.6	22.13	33.0	-10.9		
2682.50	9.90	H	0.9	9.6	18.65	33.0	-14.4		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band LTE41 10MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B																																																																																																		
	Company: LG Electronics																																																																																																		
	Project #: 14U17501																																																																																																		
	Date: 5/30/14																																																																																																		
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	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																										
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Rev. 3.17.11																																																																																																			
Note: For Band 4 EIRP limit is 30dBm																																																																																																			

Band LTE41 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B									
	Company: LG Electronics Project #: 14U17501 Date: 5/30/14 Test Engineer: D. Soper Configuration: EUT ONLY / Y-orientation Mode: LTE B41 10MHz QPSK									
	Test Equipment: Receiving: Horn T119, and Chamber B SMA Cables Substitution: Horn T60 Substitution, 4ft SMA Cable Warehouse									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	
	Low Ch									
	2501.00	13.34	V	0.9	9.5	21.99	33.0	-11.0		
	2501.00	8.80	H	0.9	9.5	17.45	33.0	-15.6		
	Mid Ch									
	2593.00	13.90	V	0.9	9.5	22.55	33.0	-10.5		
	2593.00	9.92	H	0.9	9.5	18.57	33.0	-14.4		
	High Ch									
	2685.00	12.72	V	0.9	9.6	21.47	33.0	-11.5		
2685.00	10.56	H	0.9	9.6	19.31	33.0	-13.7			
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm										

Band LTE26 10MHz QPSK	High Frequency Substitution Measurement Compliance Certification Services Chamber C								
	Company: LG								
	Project #: 14U17849								
	Date: 05/29/14								
	Test Engineer: D. Soper								
	Configuration: EUT only								
	Mode: LTE band 26, 10MHz BW QPSK, Average, RB1-0								
	Test Equipment: Receiving: Sunol T407, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse.								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm								

Band LTE26 5MHz 16QAM	High Frequency Substitution Measurement Compliance Certification Services Chamber C																																																																																																		
	Company:		LG																																																																																																
	Project #:		14U17849																																																																																																
	Date:		05/29/14																																																																																																
	Test Engineer:		D. Soper																																																																																																
	Configuration:		EUT only																																																																																																
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			QPSK, Average, RB1-0 / Y Orientation																																																																																															
	Test Equipment:		Receiving: Horn T345, and Chamber B SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse																																																																																															
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f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
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Band LTE25 5MHz 16QAM	High Frequency Fundamental Measurement Compliance Certification Services Chamber B								
	Company:		LG						
	Project #:		14U17849						
	Date:		05/21/14						
	Test Engineer:		Charles Vergonio						
	Configuration:		EUT only						
	Mode:		LTE band 25, 5MHz BW						
			16QAM, Average, RB1-0 / Y Orientation						
	Test Equipment:		Receiving: Horn T345, and Chamber B SMA Cables						
			Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse						
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	GHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1.853	12.7	V	0.85	7.85	19.72	33.0	-13.3	
	1.853	8.7	H	0.85	7.85	15.73	33.0	-17.3	
	Mid Ch								
	1.883	14.3	V	0.85	7.85	21.28	33.0	-11.7	
	1.883	8.9	H	0.85	7.85	15.93	33.0	-17.1	
	High Ch								
	1.913	13.9	V	0.85	7.85	20.87	33.0	-12.1	
	1.913	9.3	H	0.85	7.85	16.34	33.0	-16.7	

Band LTE25 5MHz QPSK	High Frequency Fundamental Measurement Compliance Certification Services Chamber B									
	Company:		LG							
	Project #:		14U17849							
	Date:		05/21/14							
	Test Engineer:		Charles Vergonio							
	Configuration:		EUT only							
	Mode:		LTE band 25, 5MHz BW							
			QPSK, Average, RB1-0 / Y Orientation							
	Test Equipment:		Receiving: Horn T345, and Chamber B SMA Cables							
			Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse							
		f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
		GHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
		Low Ch								
		1.853	14.3	V	0.85	7.85	21.27	33.0	-11.7	
		1.853	10.3	H	0.85	7.85	17.33	33.0	-15.7	
		Mid Ch								
		1.883	15.8	V	0.85	7.85	22.79	33.0	-10.2	
		1.883	10.5	H	0.85	7.85	17.53	33.0	-15.5	
		High Ch								
		1.913	14.9	V	0.85	7.85	21.92	33.0	-11.1	
		1.913	10.3	H	0.85	7.85	17.34	33.0	-15.7	

Band LTE25 3MHz QPSK	High Frequency Fundamental Measurement Compliance Certification Services Chamber B																																																																																																	
	Company:		LG																																																																																															
	Project #:		14U17849																																																																																															
	Date:		05/21/14																																																																																															
	Test Engineer:		Charles Vergonio																																																																																															
	Configuration:		EUT only																																																																																															
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Band Band 2 HSDPA	High Frequency Fundamental Measurement Compliance Certification Services Chamber A																																																																																																	
	Company:		LG																																																																																															
	Project #:		14U17849																																																																																															
	Date:		05/23/14																																																																																															
	Test Engineer:		R. Alegre																																																																																															
	Configuration:		EUT ONLY																																																																																															
	Mode:		HSDPA 99 B2 1900Mhz																																																																																															
	Test Equipment:																																																																																																	
	Receiving: T136, and Chamber A SMA Cables																																																																																																	
	Substitution: Horn T59 Substitution, 4ft SMA Cable (244639001) Warehouse																																																																																																	
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f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
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Rev. 3.17.11																																																																																																		

Band Band 2 REL99	High Frequency Fundamental Measurement Compliance Certification Services Chamber A								
	Company:		LG						
	Project #:		14U17849						
	Date:		05/23/14						
	Test Engineer:		R. Alegre						
	Configuration:		EUT ONLY						
	Mode:		REL 99 B2 1900Mhz						
	Test Equipment:								
	Receiving: T136, and Chamber A SMA Cables								
	Substitution: Horn T59 Substitution, 4ft SMA Cable (244639001) Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1852.40	12.1	V	0.85	7.85	19.07	33.0	-13.9	
	1852.40	13.1	H	0.85	7.85	20.12	33.0	-12.9	
	Mid Ch								
	1880.00	12.3	V	0.85	7.85	19.28	33.0	-13.7	
	1880.00	14.2	H	0.85	7.85	21.16	33.0	-11.8	
	High Ch								
	1907.60	11.8	V	0.85	7.90	18.87	33.0	-14.1	
	1907.60	14.8	H	0.85	7.90	21.82	33.0	-11.2	
Rev. 3.17.11									

High Frequency Substitution Measurement UL Verification Services, Inc. Chamber E									
<p>Company: LG Project #: 14U17849 Date: 05/28/14 Test Engineer: R. Alegre Configuration: EUT, Y Position Mode: WCDMA_HSDPA_850</p> <p>Test Equipment: Receiving: Sunol T408, and 5m E Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse.</p>									
Band									
Band 5									
HSDPA									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	
Low Ch									
826.40	15.06	V	0.9	0.0	14.16	38.5	-24.3		
826.40	21.64	H	0.9	0.0	20.74	38.5	-17.7		
Mid Ch									
836.60	14.13	V	0.9	0.0	13.23	38.5	-25.2		
836.60	21.58	H	0.9	0.0	20.68	38.5	-17.8		
High Ch									
846.60	15.13	V	0.9	0.0	14.23	38.5	-24.2		
846.60	21.34	H	0.9	0.0	20.44	38.5	-18.0		
Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm									

		High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B								
		Company:	LG							
		Project #:	14U17849							
		Date:	05/22/14							
		Test Engineer:	Charles Vergonio							
		Configuration:	EUT only, Y position							
		Mode:	EGPRS 1900MHz							
		Test Equipment:								
		Receiving: Horn T345, and Chamber B SMA Cables								
		Substitution: Horn T60 Substitution, 4ft SMA Cable Warehouse								
Band		f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
GSM19		MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
00		Low Ch								
EGPRS		1850.20	9.99	V	0.85	8.7	17.84	33.0	-15.2	
		1850.20	15.68	H	0.85	8.7	23.53	33.0	-9.5	
		Mid Ch								
		1880.00	11.21	V	0.85	8.7	19.06	33.0	-13.9	
		1880.00	15.94	H	0.85	8.7	23.79	33.0	-9.2	
		High Ch								
		1909.80	13.09	V	0.85	8.2	20.44	33.0	-12.6	
		1909.80	17.17	H	0.85	8.2	24.52	33.0	-8.5	
		Rev. 3.17.11								
		Note: For Band 4 EIRP limit is 30dBm								

		High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B						
		Company:	LG					
		Project #:	14U17849					
		Date:	05/22/14					
		Test Engineer:	Charles Vergonio					
		Configuration:	EUT only, Y position					
		Mode:	GPRS 1900MHz					
		Test Equipment:						
Band		Receiving: Horn T345, and Chamber B SMA Cables						
GSM19		Substitution: Horn T60 Substitution, 4ft SMA Cable Warehouse						
00								
GPRS								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1850.20	14.94	V	0.85	8.7	22.79	33.0	-10.2	
1850.20	20.92	H	0.85	8.7	28.77	33.0	-4.2	
Mid Ch								
1880.00	14.35	V	0.85	8.7	22.20	33.0	-10.8	
1880.00	19.43	H	0.85	8.7	27.28	33.0	-5.7	
High Ch								
1909.80	16.48	V	0.85	8.2	23.83	33.0	-9.2	
1909.80	20.80	H	0.85	8.2	28.15	33.0	-4.9	
Rev. 3.17.11								
Note: For Band 4 EIRP limit is 30dBm								

Band GSM850 EGPRS	High Frequency Substitution Measurement Compliance Certification Services Chamber B																																																																																																
	Company:		LG																																																																																														
	Project #:		14U17849																																																																																														
	Date:		05/22/14																																																																																														
	Test Engineer:		Charles Vergonio																																																																																														
	Configuration:		EUT, Y Position																																																																																														
	Mode:		EGRPS 850MHz																																																																																														
	Test Equipment:																																																																																																
	Receiving: Sunol T243, and 3m Chamber N-type Cable (Setup this one for testing EUT)																																																																																																
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836.52	20.62	V	0.5	0.0	20.17	38.5	-18.3																																																																																										
836.52	12.02	H	0.5	0.0	11.57	38.5	-26.9																																																																																										
High Ch																																																																																																	
848.31	20.60	V	0.5	0.0	20.15	38.5	-18.3																																																																																										
848.31	11.23	H	0.5	0.0	10.78	38.5	-27.7																																																																																										
Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm																																																																																																	

High Frequency Substitution Measurement UL Verification Services, Inc. Chamber F									
Company:		LG							
Project #:		14U17849							
Date:		5/31/14							
Test Engineer:		Charles Vergonio							
Configuration:		EUT, Y Position							
Mode:		CDMA RTT BC0							
Test Equipment:									
Receiving: Sunol T122, and 3m Chamber F N-type Cable (Setup this one for testing EUT)									
Substitution: Dipole S/N: 00022724, 4ft SMA Cable (SN # 244640 002) Warehouse.									
RTT BC0	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Margin	Note
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	824.70	21.48	V	0.5	0.0	21.03	38.5	-17.4	
	824.70	9.61	H	0.5	0.0	9.16	38.5	-29.3	
	Mid Ch								
	836.52	20.95	V	0.5	0.0	20.50	38.5	-17.9	
	836.52	9.11	H	0.5	0.0	8.66	38.5	-29.8	
	High Ch								
	848.31	21.18	V	0.5	0.0	20.73	38.5	-17.7	
	848.31	9.51	H	0.5	0.0	9.06	38.5	-29.4	
	Rev. 3.17.11								
Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm									

EVDOR 0 BC1	High Frequency Fundamental Measurement Compliance Certification Services Chamber F																																																																																																
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	Test Engineer: Charles Vergonio																																																																																																
	Configuration: EUT, Z Position																																																																																																
	Mode: CDMA EVDOR0 BC1																																																																																																
	Test Equipment:																																																																																																
	Receiving: T120, and Chamber F SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (244640002) Warehouse																																																																																																
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f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																									
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High Frequency Substitution Measurement UL Verification Services, Inc. Chamber F										
Company:		LG								
Project #:		14U17849								
Date:		5/31/14								
Test Engineer:		Charles Vergonio								
Configuration:		EUT, Z Position								
Mode:		CDMA RTT BC1								
Test Equipment:										
Receiving: Horn T120, and Chamber F SMA Cables										
Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse										
RTT BC1	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes	
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)		
	Low Ch									
	1851.25	11.78	V	0.6	7.9	19.06	33.0	-13.9		
	1851.25	15.65	H	0.6	7.9	22.93	33.0	-10.1		
	Mid Ch									
	1880.00	10.42	V	0.6	7.9	17.70	33.0	-15.3		
	1880.00	15.80	H	0.6	7.9	23.08	33.0	-9.9		
	High Ch									
	1908.75	10.09	V	0.7	7.8	17.24	33.0	-15.8		
	1908.75	15.79	H	0.7	7.8	22.94	33.0	-10.1		
	Rev. 3.17.11									
Note: For Band 4 EIRP limit is 30dBm										

9.3. WPC Back cover test data

LTE B25 16QAM	High Frequency Fundamental Measurement Compliance Certification Services Chamber B								
	Company: LG								
	Project #: 14U17849								
	Date: 06/02/14								
	Test Engineer: D. Soper								
	Configuration: EUT / Wireless Charger								
	Mode: LTE band 25, 3MHz BW 16QAM								
	Test Equipment:								
	Receiving: Horn T345, and Chamber B SMA Cables								
	Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	1.852		V	0.85	7.85		33.0		
	1.852		H	0.85	7.85		33.0		
	Mid Ch								
1.883	14.5	V	0.85	7.85	21.48	33.0	-11.5		
1.883	8.7	H	0.85	7.85	15.70	33.0	-17.3		
High Ch									
1.914		V	0.85	7.85		33.0			
1.914		H	0.85	7.85		33.0			
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

LTE B25 QPSK	High Frequency Fundamental Measurement Compliance Certification Services Chamber B								
	Company: LG								
	Project #: 14U17849								
	Date: 06/02/14								
	Test Engineer: D. Soper								
	Configuration: EUT / Wireless Charger								
	Mode: LTE band 25, 3MHz BW								
			QPSK, Average, RB1-0 / Y Orientation						
	Test Equipment:								
	Receiving: Horn T345, and Chamber B SMA Cables								
	Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	1.852		V	0.85	7.85		33.0		
	1.852		H	0.85	7.85		33.0		
Mid Ch									
1.883	15.7	V	0.85	7.85	22.70	33.0	-10.3		
1.883	10.5	H	0.85	7.85	17.50	33.0	-15.5		
High Ch									
1.914		V	0.85	7.85		33.0			
1.914		H	0.85	7.85		33.0			
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

LTE B26 16QAM	High Frequency Substitution Measurement Compliance Certification Services Chamber C																																																																																																
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	Configuration:		EUT / wireless charger																																																																																														
	Mode:		LTE band 26, 5MHz BW 16QAM, Average, RB1-0																																																																																														
	Test Equipment:																																																																																																
	Receiving: Sunol T407, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse.																																																																																																
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LTE B26 QPSK	High Frequency Substitution Measurement Compliance Certification Services Chamber C																																																																																																	
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	Project #:		14U17849																																																																																															
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LTE B41 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B								
	Company: LG Electronics Project #: 14U17501 Date: 5/30/14 Test Engineer: D. Soper Configuration: EUT ONLY / Y-orientation Mode: LTE B41 10MHz 16QAM								
	Test Equipment: Receiving: Horn T119, and Chamber B SMA Cables Substitution: Horn T60 Substitution, 4ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	2501.00		V	0.9	9.5		33.0		
	2501.00		H	0.9	9.5		33.0		
	Mid Ch								
	2593.00	11.94	V	0.9	9.5	20.59	33.0	-12.4	
	2593.00	9.90	H	0.9	9.5	18.55	33.0	-14.5	
	High Ch								
	2685.00		V	0.9	9.6		33.0		
	2685.00		H	0.9	9.6		33.0		
	Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm								

LTE B41 QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B								
	Company: LG Electronics Project #: 14U17501 Date: 5/30/14 Test Engineer: D. Soper Configuration: EUT ONLY / Y-orientation Mode: LTE B41 10MHz QPSK								
	Test Equipment: Receiving: Horn T119, and Chamber B SMA Cables Substitution: Horn T60 Substitution, 4ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	2501.00		V	0.9	9.5		33.0		
	2501.00		H	0.9	9.5		33.0		
	Mid Ch								
	2593.00	13.20	V	0.9	9.5	21.85	33.0	-11.2	
	2593.00	11.10	H	0.9	9.5	19.75	33.0	-13.3	
High Ch									
2685.00		V	0.9	9.6		33.0			
2685.00		H	0.9	9.6		33.0			
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

WCDM
A B2

**High Frequency Fundamental Measurement
Compliance Certification Services Chamber E**

Company: LG
Project #: 14U17849
Date: 06/02/14
Test Engineer: R. Alegre
Configuration: EUT ONLY
Mode: REL 99 B2 1900Mhz

Test Equipment:

Receiving: T346, and Chamber E SMA Cables
 Substitution: Horn T59 Substitution, 4ft SMA Cable (244639001) Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
Mid Ch								
1880.00	12.1	V	0.85	7.85	19.09	33.0	-13.9	
1880.00	14.0	H	0.85	7.85	21.03	33.0	-12.0	
High Ch								

Rev. 3.17.11

WCDM A B5	High Frequency Substitution Measurement																																																																														
	UL Verification Services, Inc. Chamber F																																																																														
	Company:		LG																																																																												
	Project #:		14U17849																																																																												
	Date:		06/02/14																																																																												
	Test Engineer:		R. Alegre																																																																												
	Configuration:		EUT, Y Position																																																																												
	Mode:		WCDMA_REL99_850																																																																												
	Test Equipment:																																																																														
	Receiving: Sunol T408, and 5m F Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse.																																																																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td colspan="9"> </td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>836.60</td> <td>14.94</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>14.04</td> <td>38.5</td> <td>-24.4</td> <td></td> </tr> <tr> <td>836.60</td> <td>21.53</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>20.63</td> <td>38.5</td> <td>-17.8</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td colspan="9"> </td> </tr> </tbody> </table>								f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch																		Mid Ch									836.60	14.94	V	0.9	0.0	14.04	38.5	-24.4		836.60	21.53	H	0.9	0.0	20.63	38.5	-17.8		High Ch																	
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High Ch																																																																															
Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm																																																																															

GSM 1900	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber E																																																																															
	Company:		LG																																																																													
	Project #:		14U17849																																																																													
	Date:		06/02/14																																																																													
	Test Engineer:		R. Alegre																																																																													
	Configuration:		EUT only, Y position																																																																													
	Mode:		GPRS 1900MHz																																																																													
	Test Equipment:																																																																															
	Receiving: Horn T346, and Chamber E SMA Cables																																																																															
	Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse																																																																															
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f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																								
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High Ch																																																																																
Rev. 3.17.11																																																																																
Note: For Band 4 EIRP limit is 30dBm																																																																																

GSM 850	High Frequency Substitution Measurement Compliance Certification Services Chamber E																																																																														
	Company:		LG																																																																												
	Project #:		14U17849																																																																												
	Date:		06/02/14																																																																												
	Test Engineer:		R. Alegre																																																																												
	Configuration:		EUT, Y Position																																																																												
	Mode:		GRPS 850MHz																																																																												
	Test Equipment:																																																																														
	Receiving: Sunol T408, and Chamber E N-type Cable (Setup this one for testing EUT)																																																																														
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Rev. 3.17.11																																																																															

BCO
RTT

**High Frequency Substitution Measurement
UL Verification Services, Inc. Chamber F**

Company: LG
Project #: 14U17849
Date: 5/31/14
Test Engineer: Charles Vergonio
Configuration: EUT, Y Position / Wireless Charger
Mode: CDMA RTT BC0

Test Equipment:

Receiving: Sunol T122, and 3m Chamber F N-type Cable (Setup this one for testing EUT)
Substitution: Dipole S/N: 00022724, 4ft SMA Cable (SN # 244640 002) Warehouse.

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Note
Mid Ch								
836.52	20.67	V	0.5	0.0	20.22	38.5	-18.2	
836.52	8.69	H	0.5	0.0	8.24	38.5	-30.2	

Rev. 3.17.11
 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm

BC1
RTT

**High Frequency Substitution Measurement
UL Verification Services, Inc. Chamber F**

Company: LG
Project #: 14U17849
Date: 5/31/14
Test Engineer: Charles Vergonio
Configuration: EUT, Z Position/ Wireless Charger
Mode: CDMA RTT BC1

Test Equipment:

Receiving: Horn T120, and Chamber F SMA Cables
Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Mid Ch								
1880.00	10.19	V	0.6	7.9	17.47	33.0	-15.5	
1880.00	15.33	H	0.6	7.9	22.61	33.0	-10.4	

Rev. 3.17.11

Note: For Band 4 EIRP limit is 30dBm

BC10 RTT	High Frequency Substitution Measurement Compliance Certification Services Chamber A																																																																																																
	Company:		LG Electronics																																																																																														
	Project #:		14U17849																																																																																														
	Date:		6/5/14																																																																																														
	Test Engineer:		D. Soper																																																																																														
	Configuration:		EUT																																																																																														
	Mode:		CDMA RTT BC10																																																																																														
	Test Equipment:																																																																																																
	Receiving: Sunol T136, and Chamber A Cable (Setup this one for testing EUT)																																																																																																
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f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																									
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Rev. 3.17.11																																																																																																	

9.2. FIELD STRENGTH OF SPURIOUS RADIATION**RULE PART(S)**

FCC: §2.1053, §22.917, §24.238, and §90.691

LIMIT

§22.917 (e) and §24.238 (a): Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB

§ 90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

RESULTS

9.2.1. SPURIOUS RADIATION DATA

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		14U17849								
Date:		06/02/14								
Test Engineer:		D. Soper								
Configuration:		EUT / AC Adapter								
Mode:		LTE B41 20M 16QAM HARM								
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber A		T145 8449B		Filter 1						
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (2506 MHz)										
LTE41	5.012	-31.7	V	3.0	28.9	1.0	-59.6	-25.0	-34.6	
	7.518	-35.5	V	3.0	26.3	1.0	-60.9	-25.0	-35.9	
20MHz	10.553	-34.4	V	3.0	22.9	1.0	-56.3	-25.0	-31.3	
	5.012	-27.2	H	3.0	28.9	1.0	-55.1	-25.0	-30.1	
16QAM	7.518	-34.1	H	3.0	26.3	1.0	-59.4	-25.0	-34.4	
	10.553	-33.5	H	3.0	22.9	1.0	-55.4	-25.0	-30.4	
Mid Ch, (2593 MHz)										
	5.186	-22.6	V	3.0	28.7	1.0	-50.4	-25.0	-25.4	
	7.779	-34.9	V	3.0	26.0	1.0	-59.9	-25.0	-34.9	
	10.372	-34.1	V	3.0	23.0	1.0	-56.1	-25.0	-31.1	
	5.186	-21.3	H	3.0	28.7	1.0	-49.1	-25.0	-24.1	
	7.779	-33.8	H	3.0	26.0	1.0	-58.8	-25.0	-33.8	
	10.372	-33.1	H	3.0	23.0	1.0	-55.1	-25.0	-30.1	
High Ch, (2680 MHz)										
	5.360	-17.6	V	3.0	28.5	1.0	-45.2	-25.0	-20.2	
	8.040	-24.5	V	3.0	25.6	1.0	-49.1	-25.0	-24.1	
	10.720	-34.4	V	3.0	22.9	1.0	-56.3	-25.0	-31.3	
	5.360	-16.1	H	3.0	28.5	1.0	-43.6	-25.0	-18.6	
	8.040	-23.6	H	3.0	25.6	1.0	-48.2	-25.0	-23.2	
	10.720	-33.0	H	3.0	22.9	1.0	-54.9	-25.0	-29.9	
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		14U17849								
Date:		06/02/14								
Test Engineer:		D. Soper								
Configuration:		EUT / AC Adapter								
Mode:		LTE B41 20M QPSK HARM								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T145 8449B			Filter 1					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (2506 MHz)										
LTE41	5.012	-32.2	V	3.0	28.9	1.0	-60.1	-25.0	-35.1	
	7.518	-35.3	V	3.0	26.3	1.0	-60.6	-25.0	-35.6	
20MHz	10.553	-34.2	V	3.0	22.9	1.0	-56.1	-25.0	-31.1	
	5.012	-27.0	H	3.0	28.9	1.0	-54.9	-25.0	-29.9	
	7.518	-34.7	H	3.0	26.3	1.0	-60.0	-25.0	-35.0	
QPSK	10.553	-33.6	H	3.0	22.9	1.0	-55.6	-25.0	-30.6	
Mid Ch, (2593 MHz)										
	5.186	-22.7	V	3.0	28.7	1.0	-50.4	-25.0	-25.4	
	7.779	-35.0	V	3.0	26.0	1.0	-60.0	-25.0	-35.0	
	10.372	-34.0	V	3.0	23.0	1.0	-56.0	-25.0	-31.0	
	5.186	-20.5	H	3.0	28.7	1.0	-48.2	-25.0	-23.2	
	7.779	-34.0	H	3.0	26.0	1.0	-59.0	-25.0	-34.0	
	10.372	-33.4	H	3.0	23.0	1.0	-55.3	-25.0	-30.3	
High Ch, (2680 MHz)										
	5.360	-17.8	V	3.0	28.5	1.0	-45.3	-25.0	-20.3	
	8.040	-24.4	V	3.0	25.6	1.0	-49.0	-25.0	-24.0	
	10.720	-34.2	V	3.0	22.9	1.0	-56.1	-25.0	-31.1	
	5.360	-16.0	H	3.0	28.5	1.0	-43.6	-25.0	-18.6	
	8.040	-23.5	H	3.0	25.6	1.0	-48.1	-25.0	-23.1	
	10.720	-33.3	H	3.0	22.9	1.0	-55.2	-25.0	-30.2	
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		R. Alegre								
Configuration:		EUT, w/AC Charger and headphones								
Mode:		TX, LTE band 41, 15MHz, 16QAM								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T145 8449B			Filter 1					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (2503.5 MHz)										
LTE41	5.007	-25.9	V	3.0	28.9	1.0	-53.8	-25.0	-28.8	
	7.511	-27.5	V	3.0	26.3	1.0	-52.8	-25.0	-27.8	
15MHz	10.014	-27.6	V	3.0	23.1	1.0	-49.7	-25.0	-24.7	
	5.007	-28.7	H	3.0	28.9	1.0	-56.6	-25.0	-31.6	
	7.511	-27.6	H	3.0	26.3	1.0	-52.9	-25.0	-27.9	
16QAM	10.014	-26.4	H	3.0	23.1	1.0	-48.5	-25.0	-23.5	
Mid Ch, (2593 MHz)										
	5.186	-30.7	V	3.0	28.7	1.0	-58.4	-25.0	-33.4	
	7.779	-28.2	V	3.0	26.0	1.0	-53.2	-25.0	-28.2	
	10.372	-28.0	V	3.0	23.0	1.0	-50.0	-25.0	-25.0	
	5.186	-29.0	H	3.0	28.7	1.0	-56.7	-25.0	-31.7	
	7.779	-27.3	H	3.0	26.0	1.0	-52.3	-25.0	-27.3	
	10.372	-26.6	H	3.0	23.0	1.0	-48.5	-25.0	-23.5	
High Ch, (2682.5 MHz)										
	5.365	-25.4	V	3.0	28.5	1.0	-53.0	-25.0	-28.0	
	8.052	-25.9	V	3.0	25.6	1.0	-50.5	-25.0	-25.5	
	10.730	-25.6	V	3.0	22.9	1.0	-47.5	-25.0	-22.5	
	5.365	-29.0	H	3.0	28.5	1.0	-56.5	-25.0	-31.5	
	8.052	-24.7	H	3.0	25.6	1.0	-49.3	-25.0	-24.3	
	10.730	-27.6	H	3.0	22.9	1.0	-49.5	-25.0	-24.5	
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		R. Alegre								
Configuration:		EUT, w/AC Charger and headphones								
Mode:		TX, LTE band 41, 15MHz, QPSK								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T145 8449B			Filter 1					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (2503.5 MHz)										
LTE41	5.007	-27.0	V	3.0	28.9	1.0	-54.9	-25.0	-29.9	
	7.511	-28.6	V	3.0	26.3	1.0	-54.0	-25.0	-29.0	
15MHz	10.014	-26.0	V	3.0	23.1	1.0	-48.1	-25.0	-23.1	
	5.007	-28.8	H	3.0	28.9	1.0	-56.7	-25.0	-31.7	
QPSK	7.511	-27.7	H	3.0	26.3	1.0	-53.0	-25.0	-28.0	
	10.014	-26.2	H	3.0	23.1	1.0	-48.3	-25.0	-23.3	
Mid Ch, (2593 MHz)										
	5.186	-30.1	V	3.0	28.7	1.0	-57.8	-25.0	-32.8	
	7.779	-28.6	V	3.0	26.0	1.0	-53.6	-25.0	-28.6	
	10.372	-28.0	V	3.0	23.0	1.0	-50.0	-25.0	-25.0	
	5.186	-29.1	H	3.0	28.7	1.0	-56.9	-25.0	-31.9	
	7.779	-26.8	H	3.0	26.0	1.0	-51.8	-25.0	-26.8	
	10.372	-27.0	H	3.0	23.0	1.0	-49.0	-25.0	-24.0	
High Ch, (2682.5 MHz)										
	5.365	-26.0	V	3.0	28.5	1.0	-53.5	-25.0	-28.5	
	8.052	-26.0	V	3.0	25.6	1.0	-50.6	-25.0	-25.6	
	10.730	-25.9	V	3.0	22.9	1.0	-47.8	-25.0	-22.8	
	5.365	-29.6	H	3.0	28.5	1.0	-57.1	-25.0	-32.1	
	8.052	-25.2	H	3.0	25.6	1.0	-49.8	-25.0	-24.8	
	10.730	-27.5	H	3.0	22.9	1.0	-49.4	-25.0	-24.4	
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		14U17849								
Date:		06/02/14								
Test Engineer:		D. Soper								
Configuration:		EUT / AC Adapter								
Mode:		LTE B41 10M 16QAM HARM								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T145 8449B			Filter 1					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (2501 MHz)										
LTE41	5.002	-28.7	V	3.0	28.9	1.0	-56.6	-25.0	-31.6	
	7.503	-28.7	V	3.0	26.3	1.0	-54.0	-25.0	-29.0	
10MHz	10.004	-25.8	V	3.0	23.1	1.0	-47.9	-25.0	-22.9	
	5.002	-25.0	H	3.0	28.9	1.0	-52.9	-25.0	-27.9	
	7.503	-28.8	H	3.0	26.3	1.0	-54.2	-25.0	-29.2	
16QAM	10.004	-32.1	H	3.0	23.1	1.0	-54.2	-25.0	-29.2	
Mid Ch, (2593 MHz)										
	5.186	-22.2	V	3.0	28.7	1.0	-50.0	-25.0	-25.0	
	7.779	-27.9	V	3.0	26.0	1.0	-52.9	-25.0	-27.9	
	10.372	-26.5	V	3.0	23.0	1.0	-48.5	-25.0	-23.5	
	5.186	-19.4	H	3.0	28.7	1.0	-47.1	-25.0	-22.1	
	7.779	-34.1	H	3.0	26.0	1.0	-59.1	-25.0	-34.1	
	10.372	-33.3	H	3.0	23.0	1.0	-55.3	-25.0	-30.3	
High Ch, (2685 MHz)										
	5.375	-14.2	V	3.0	28.5	1.0	-41.7	-25.0	-16.7	
	8.055	-26.1	V	3.0	25.6	1.0	-50.8	-25.0	-25.8	
	10.740	-34.8	V	3.0	22.9	1.0	-56.7	-25.0	-31.7	
	5.375	-13.4	H	3.0	28.5	1.0	-41.0	-25.0	-16.0	
	8.055	-34.1	H	3.0	25.6	1.0	-58.7	-25.0	-33.7	
	10.740	-34.6	H	3.0	22.9	1.0	-56.4	-25.0	-31.4	
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		14U17849								
Date:		06/02/14								
Test Engineer:		D. Soper								
Configuration:		EUT / AC Adapter								
Mode:		LTE B41 10M QPSK HARM								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T145 8449B			Filter 1					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (2501 MHz)										
LTE41	5.002	-28.5	V	3.0	28.9	1.0	-56.4	-25.0	-31.4	
	7.503	-28.6	V	3.0	26.3	1.0	-53.9	-25.0	-28.9	
10MHz	10.004	-26.3	V	3.0	23.1	1.0	-48.4	-25.0	-23.4	
	5.002	-25.0	H	3.0	28.9	1.0	-52.9	-25.0	-27.9	
	7.503	-29.1	H	3.0	26.3	1.0	-54.4	-25.0	-29.4	
QPSK	10.004	-32.1	H	3.0	23.1	1.0	-54.2	-25.0	-29.2	
Mid Ch, (2593 MHz)										
	5.186	-21.1	V	3.0	28.7	1.0	-48.8	-25.0	-23.8	
	7.779	-28.2	V	3.0	26.0	1.0	-53.2	-25.0	-28.2	
	10.372	-26.6	V	3.0	23.0	1.0	-48.6	-25.0	-23.6	
	5.186	-18.9	H	3.0	28.7	1.0	-46.7	-25.0	-21.7	
	7.779	-34.1	H	3.0	26.0	1.0	-59.1	-25.0	-34.1	
	10.372	-33.0	H	3.0	23.0	1.0	-55.0	-25.0	-30.0	
High Ch, (2685 MHz)										
	5.375	-13.6	V	3.0	28.5	1.0	-41.2	-25.0	-16.2	
	8.055	-25.8	V	3.0	25.6	1.0	-50.5	-25.0	-25.5	
	10.740	-35.8	V	3.0	22.9	1.0	-57.7	-25.0	-32.7	
	5.375	-12.7	H	3.0	28.5	1.0	-40.3	-25.0	-15.3	
	8.055	-33.8	H	3.0	25.6	1.0	-58.4	-25.0	-33.4	
	10.740	-34.7	H	3.0	22.9	1.0	-56.6	-25.0	-31.6	
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		D. Soper								
Configuration:		EUT with AC CHARGER								
Mode:		LTE B26 10M 16QAM HARM								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T145 8449B			Filter 1					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE26 10MHz 16QAM	Low Ch, (819MHz)									
	1.638	-19.0	V	3.0	32.7	1.0	-50.6	-13.0	-37.6	
	2.457	-22.3	V	3.0	31.3	1.0	-52.6	-13.0	-39.6	
	3.276	-26.2	V	3.0	30.6	1.0	-55.8	-13.0	-42.8	
	1.638	-26.7	H	3.0	32.7	1.0	-58.4	-13.0	-45.4	
	2.457	-24.9	H	3.0	31.3	1.0	-55.2	-13.0	-42.2	
	3.276	-27.7	H	3.0	30.6	1.0	-57.2	-13.0	-44.2	
	Mid Ch, (831.5MHz)									
	1.663	-22.6	V	3.0	32.6	1.0	-54.2	-13.0	-41.2	
	2.495	-22.6	V	3.0	31.5	1.0	-53.0	-13.0	-40.0	
	3.327	-26.2	V	3.0	30.5	1.0	-55.7	-13.0	-42.7	
	1.663	-24.8	H	3.0	32.6	1.0	-56.5	-13.0	-43.5	
	2.495	-24.7	H	3.0	31.5	1.0	-55.2	-13.0	-42.2	
	3.327	-26.8	H	3.0	30.5	1.0	-56.3	-13.0	-43.3	
	High Ch, (844MHz)									
1.688	-23.6	V	3.0	32.6	1.0	-55.2	-13.0	-42.2		
2.532	-22.6	V	3.0	31.5	1.0	-53.0	-13.0	-40.0		
3.376	-26.1	V	3.0	30.5	1.0	-55.6	-13.0	-42.6		
1.688	-24.7	H	3.0	32.6	1.0	-56.2	-13.0	-43.2		
2.532	-25.3	H	3.0	31.5	1.0	-55.8	-13.0	-42.8		
3.376	-27.0	H	3.0	30.5	1.0	-56.5	-13.0	-43.5		
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		D. Soper								
Configuration:		EUT with AC CHARGER								
Mode:		LTE B26 10M QPSK HARM								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T145 8449B			Filter 1					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (829MHz)										
LTE26	1.638	-18.4	V	3.0	32.7	1.0	-50.0	-13.0	-37.0	
	2.457	-22.8	V	3.0	31.3	1.0	-53.0	-13.0	-40.0	
10MHz	3.276	-26.3	V	3.0	30.6	1.0	-55.8	-13.0	-42.8	
	1.638	-26.5	H	3.0	32.7	1.0	-58.2	-13.0	-45.2	
QPSK	2.457	-24.9	H	3.0	31.3	1.0	-55.2	-13.0	-42.2	
	3.276	-26.6	H	3.0	30.6	1.0	-56.2	-13.0	-43.2	
Mid Ch, (831.5MHz)										
	1.663	-21.9	V	3.0	32.6	1.0	-53.5	-13.0	-40.5	
	2.495	-22.1	V	3.0	31.5	1.0	-52.6	-13.0	-39.6	
	3.327	-26.3	V	3.0	30.5	1.0	-55.9	-13.0	-42.9	
	1.663	-24.5	H	3.0	32.6	1.0	-56.1	-13.0	-43.1	
	2.495	-25.0	H	3.0	31.5	1.0	-55.5	-13.0	-42.5	
	3.327	-26.7	H	3.0	30.5	1.0	-56.2	-13.0	-43.2	
High Ch, (844MHz)										
	1.688	-22.9	V	3.0	32.6	1.0	-54.5	-13.0	-41.5	
	2.532	-22.4	V	3.0	31.5	1.0	-52.9	-13.0	-39.9	
	3.376	-26.4	V	3.0	30.5	1.0	-55.9	-13.0	-42.9	
	1.688	-23.7	H	3.0	32.6	1.0	-55.2	-13.0	-42.2	
	2.532	-24.8	H	3.0	31.5	1.0	-55.2	-13.0	-42.2	
	3.376	-27.0	H	3.0	30.5	1.0	-56.5	-13.0	-43.5	
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		D. Soper								
Configuration:		EUT with AC CHARGER								
Mode:		LTE B26 5M 16QAM HARM								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T145 8449B			Filter 1					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, (816.5MHz)									
LTE26	1.633	-23.2	V	3.0	32.7	1.0	-54.9	-13.0	-41.9	
	2.450	-23.7	V	3.0	31.2	1.0	-53.9	-13.0	-40.9	
5MHz	3.267	-26.5	V	3.0	30.6	1.0	-56.1	-13.0	-43.1	
	1.633	-25.5	H	3.0	32.7	1.0	-57.2	-13.0	-44.2	
	2.450	-24.8	H	3.0	31.2	1.0	-55.1	-13.0	-42.1	
16QAM	3.267	-26.5	H	3.0	30.6	1.0	-56.0	-13.0	-43.0	
	Mid Ch, (831.5MHz)									
	1.663	-22.4	V	3.0	32.6	1.0	-54.0	-13.0	-41.0	
	2.495	-22.9	V	3.0	31.5	1.0	-53.3	-13.0	-40.3	
	3.327	-26.5	V	3.0	30.5	1.0	-56.0	-13.0	-43.0	
	1.663	-22.5	H	3.0	32.6	1.0	-54.1	-13.0	-41.1	
	2.495	-25.0	H	3.0	31.5	1.0	-55.5	-13.0	-42.5	
	3.327	-26.8	H	3.0	30.5	1.0	-56.3	-13.0	-43.3	
	High Ch, (846.5MHz)									
	1.693	-14.4	V	3.0	32.6	1.0	-46.0	-13.0	-33.0	
	2.540	-23.0	V	3.0	31.4	1.0	-53.4	-13.0	-40.4	
	3.387	-26.1	V	3.0	30.5	1.0	-55.5	-13.0	-42.5	
	1.693	-21.1	H	3.0	32.6	1.0	-52.7	-13.0	-39.7	
	2.540	-25.2	H	3.0	31.4	1.0	-55.7	-13.0	-42.7	
	3.387	-27.1	H	3.0	30.5	1.0	-56.5	-13.0	-43.5	
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		D. Soper								
Configuration:		EUT with AC CHARGER								
Mode:		LTE B26 5M QPSK HARM								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T145 8449B			Filter 1					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (816.5MHz)										
LTE26	1.633	-22.6	V	3.0	32.7	1.0	-54.3	-13.0	-41.3	
	2.450	-23.3	V	3.0	31.2	1.0	-53.6	-13.0	-40.6	
5MHz	3.267	-26.4	V	3.0	30.6	1.0	-56.0	-13.0	-43.0	
	1.633	-24.4	H	3.0	32.7	1.0	-56.1	-13.0	-43.1	
	2.450	-23.1	H	3.0	31.2	1.0	-53.4	-13.0	-40.4	
QPSK	3.267	-25.9	H	3.0	30.6	1.0	-55.5	-13.0	-42.5	
Mid Ch, (831.5MHz)										
	1.663	-21.8	V	3.0	32.6	1.0	-53.4	-13.0	-40.4	
	2.495	-22.5	V	3.0	31.5	1.0	-53.0	-13.0	-40.0	
	3.327	-26.5	V	3.0	30.5	1.0	-56.1	-13.0	-43.1	
	1.663	-21.7	H	3.0	32.6	1.0	-53.3	-13.0	-40.3	
	2.495	-25.0	H	3.0	31.5	1.0	-55.5	-13.0	-42.5	
	3.327	-26.7	H	3.0	30.5	1.0	-56.2	-13.0	-43.2	
High Ch, (846.5MHz)										
	1.693	-13.1	V	3.0	32.6	1.0	-44.6	-13.0	-31.6	
	2.540	-23.7	V	3.0	31.4	1.0	-54.2	-13.0	-41.2	
	3.387	-25.8	V	3.0	30.5	1.0	-55.2	-13.0	-42.2	
	1.693	-19.8	H	3.0	32.6	1.0	-51.3	-13.0	-38.3	
	2.540	-25.1	H	3.0	31.4	1.0	-55.5	-13.0	-42.5	
	3.387	-27.0	H	3.0	30.5	1.0	-56.4	-13.0	-43.4	
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		D. Soper								
Configuration:		EUT with AC CHARGER								
Mode:		LTE B26 3M 16QAM HARM								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T145 8449B			Filter 1					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (815.5MHz)										
LTE26	1.631	-16.9	V	3.0	32.7	1.0	-48.6	-13.0	-35.6	
	2.447	-23.1	V	3.0	31.2	1.0	-53.3	-13.0	-40.3	
3MHz	3.263	-26.4	V	3.0	30.6	1.0	-56.0	-13.0	-43.0	
	1.631	-7.5	H	3.0	32.7	1.0	-39.2	-13.0	-26.2	
	2.447	-14.6	H	3.0	31.2	1.0	-44.8	-13.0	-31.8	
16QAM	3.263	-17.0	H	3.0	30.6	1.0	-46.6	-13.0	-33.6	
Mid Ch, (831.5MHz)										
	1.663	-8.6	V	3.0	32.6	1.0	-40.2	-13.0	-27.2	
	2.495	-27.3	V	3.0	31.5	1.0	-57.8	-13.0	-44.8	
	3.327	-31.2	V	3.0	30.5	1.0	-60.7	-13.0	-47.7	
	1.663	-14.5	H	3.0	32.6	1.0	-46.2	-13.0	-33.2	
	2.495	-28.8	H	3.0	31.5	1.0	-59.3	-13.0	-46.3	
	3.327	-32.4	H	3.0	30.5	1.0	-61.9	-13.0	-48.9	
High Ch, (847.5MHz)										
	1.695	-12.0	V	3.0	32.6	1.0	-43.5	-13.0	-30.5	
	2.543	-28.2	V	3.0	31.4	1.0	-58.6	-13.0	-45.6	
	3.391	-31.4	V	3.0	30.5	1.0	-60.8	-13.0	-47.8	
	1.695	-14.4	H	3.0	32.6	1.0	-46.0	-13.0	-33.0	
	2.543	-28.5	H	3.0	31.4	1.0	-58.9	-13.0	-45.9	
	3.391	-32.0	H	3.0	30.5	1.0	-61.5	-13.0	-48.5	
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		D. Soper								
Configuration:		EUT with AC CHARGER								
Mode:		LTE B26 3M QPSK HARM								
Chamber		Pre-amplifer			Filter		Limit			
5m Chamber A		T145 8449B			Filter 1					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (815.5MHz)										
LTE26	1.631	-17.6	V	3.0	32.7	1.0	-49.3	-13.0	-36.3	
	2.447	-21.3	V	3.0	31.2	1.0	-51.5	-13.0	-38.5	
3MHz	3.263	-25.0	V	3.0	30.6	1.0	-54.6	-13.0	-41.6	
	1.631	-7.5	H	3.0	32.7	1.0	-39.2	-13.0	-26.2	
	2.447	-15.3	H	3.0	31.2	1.0	-45.6	-13.0	-32.6	
QPSK	3.263	-17.4	H	3.0	30.6	1.0	-47.0	-13.0	-34.0	
Mid Ch, (831.5MHz)										
	1.663	-11.7	V	3.0	32.6	1.0	-43.3	-13.0	-30.3	
	2.495	-21.5	V	3.0	31.5	1.0	-52.0	-13.0	-39.0	
	3.327	-25.4	V	3.0	30.5	1.0	-54.9	-13.0	-41.9	
	1.663	-8.3	H	3.0	32.6	1.0	-39.9	-13.0	-26.9	
	2.495	-23.4	H	3.0	31.5	1.0	-53.9	-13.0	-40.9	
	3.327	-25.2	H	3.0	30.5	1.0	-54.8	-13.0	-41.8	
High Ch, (847.5MHz)										
	1.695	-19.3	V	3.0	32.6	1.0	-50.8	-13.0	-37.8	
	2.543	-23.3	V	3.0	31.4	1.0	-53.8	-13.0	-40.8	
	3.391	-26.7	V	3.0	30.5	1.0	-56.2	-13.0	-43.2	
	1.695	-8.1	H	3.0	32.6	1.0	-39.7	-13.0	-26.7	
	2.543	-23.7	H	3.0	31.4	1.0	-54.1	-13.0	-41.1	
	3.391	-25.6	H	3.0	30.5	1.0	-55.1	-13.0	-42.1	
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		D. Soper								
Configuration:		EUT with AC CHARGER								
Mode:		LTE B26 1.4M 16QAM HARM								
Chamber		Pre-amplifier			Filter			Limit		
5m Chamber A		T145 8449B			Filter 1					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (814.7MHz)										
LTE26	1.629	-27.1	V	3.0	32.7	1.0	-58.8	-13.0	-45.8	
	2.444	-23.9	V	3.0	31.2	1.0	-54.1	-13.0	-41.1	
1.4MHz	3.259	-26.6	V	3.0	30.6	1.0	-56.1	-13.0	-43.1	
	1.629	-16.0	H	3.0	32.7	1.0	-47.7	-13.0	-34.7	
	2.444	-22.2	H	3.0	31.2	1.0	-52.5	-13.0	-39.5	
16QAM	3.259	-26.5	H	3.0	30.6	1.0	-56.0	-13.0	-43.0	
Mid Ch, (831.5MHz)										
	1.663	-17.5	V	3.0	32.6	1.0	-49.1	-13.0	-36.1	
	2.495	-20.0	V	3.0	31.5	1.0	-50.4	-13.0	-37.4	
	3.327	-25.6	V	3.0	30.5	1.0	-55.1	-13.0	-42.1	
	1.663	-23.2	H	3.0	32.6	1.0	-54.8	-13.0	-41.8	
	2.495	-22.9	H	3.0	31.5	1.0	-53.4	-13.0	-40.4	
	3.327	-27.0	H	3.0	30.5	1.0	-56.5	-13.0	-43.5	
High Ch, (848.3MHz)										
	1.697	-7.4	V	3.0	32.6	1.0	-39.0	-13.0	-26.0	
	2.545	-23.4	V	3.0	31.4	1.0	-53.8	-13.0	-40.8	
	3.393	-26.7	V	3.0	30.5	1.0	-56.1	-13.0	-43.1	
	1.697	4.0	H	3.0	32.6	1.0	-27.6	-13.0	-14.6	
	2.545	-13.5	H	3.0	31.4	1.0	-43.9	-13.0	-30.9	
	3.393	-27.0	H	3.0	30.5	1.0	-56.5	-13.0	-43.5	
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		D. Soper								
Configuration:		EUT with AC CHARGER								
Mode:		LTE B26 1.4M QPSK HARM								
Chamber		Pre-amplifier			Filter			Limit		
5m Chamber A		T145 8449B			Filter 1					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (814.7MHz)										
LTE26	1.629	-15.6	V	3.0	32.7	1.0	-47.3	-13.0	-34.3	
	2.444	-23.4	V	3.0	31.2	1.0	-53.6	-13.0	-40.6	
	3.259	-26.3	V	3.0	30.6	1.0	-55.9	-13.0	-42.9	
1.4MHz	1.629	-11.6	H	3.0	32.7	1.0	-43.3	-13.0	-30.3	
	2.444	-25.1	H	3.0	31.2	1.0	-55.4	-13.0	-42.4	
	3.259	-26.3	H	3.0	30.6	1.0	-55.9	-13.0	-42.9	
QPSK	Mid Ch, (831.5MHz)									
	1.663	-29.7	V	3.0	32.6	1.0	-61.3	-13.0	-48.3	
	2.495	-13.6	V	3.0	31.5	1.0	-44.1	-13.0	-31.1	
	3.327	-23.9	V	3.0	30.5	1.0	-53.5	-13.0	-40.5	
	1.663	-21.2	H	3.0	32.6	1.0	-52.9	-13.0	-39.9	
	2.495	-21.4	H	3.0	31.5	1.0	-51.9	-13.0	-38.9	
	3.327	-26.6	H	3.0	30.5	1.0	-56.1	-13.0	-43.1	
High Ch, (848.3MHz)										
	1.697	4.6	V	3.0	32.6	1.0	-27.0	-13.0	-14.0	
	2.545	-13.0	V	3.0	31.4	1.0	-43.4	-13.0	-30.4	
	3.393	-26.6	V	3.0	30.5	1.0	-56.1	-13.0	-43.1	
	1.697	9.2	H	3.0	32.6	1.0	-22.3	-13.0	-9.3	
	2.545	-20.2	H	3.0	31.4	1.0	-50.6	-13.0	-37.6	
	3.393	-24.3	H	3.0	30.5	1.0	-53.7	-13.0	-40.7	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		R. Alegre								
Configuration:		EUT w/ AC Adapter								
Mode:		TX, LTE band 25, 10MHz, 16QAM								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T145 8449B			Filter 1		Part 24			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (1855 MHz)										
LTE25	3.710	-26.6	V	3.0	30.2	1.0	-55.8	-13.0	-42.8	
	5.565	-29.4	V	3.0	28.4	1.0	-56.7	-13.0	-43.7	
10MHz	7.420	-28.4	V	3.0	26.5	1.0	-53.8	-13.0	-40.8	
	3.710	-25.1	H	3.0	30.2	1.0	-54.3	-13.0	-41.3	
	5.565	-28.4	H	3.0	28.4	1.0	-55.8	-13.0	-42.8	
16QAM	7.420	-23.2	H	3.0	26.5	1.0	-48.6	-13.0	-35.6	
Mid Ch, (1882.5 MHz)										
	3.765	-25.5	V	3.0	30.1	1.0	-54.6	-13.0	-41.6	
	5.648	-30.6	V	3.0	28.3	1.0	-57.9	-13.0	-44.9	
	7.530	-24.4	V	3.0	26.3	1.0	-49.7	-13.0	-36.7	
	3.765	-24.9	H	3.0	30.1	1.0	-54.1	-13.0	-41.1	
	5.648	-29.3	H	3.0	28.3	1.0	-56.5	-13.0	-43.5	
	7.530	-21.5	H	3.0	26.3	1.0	-46.9	-13.0	-33.9	
High Ch, (1909.8 MHz)										
	3.820	-26.5	V	3.0	30.1	1.0	-55.6	-13.0	-42.6	
	5.730	-29.6	V	3.0	28.2	1.0	-56.8	-13.0	-43.8	
	7.640	-27.7	V	3.0	26.2	1.0	-52.9	-13.0	-39.9	
	3.820	-24.4	H	3.0	30.1	1.0	-53.5	-13.0	-40.5	
	5.730	-28.6	H	3.0	28.2	1.0	-55.8	-13.0	-42.8	
	7.640	-22.3	H	3.0	26.2	1.0	-47.5	-13.0	-34.5	
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		R. Alegre								
Configuration:		EUT w/ AC Adapter								
Mode:		TX, LTE band 25, 10MHz, QPSK								
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber A		T145 8449B		Filter 1		Part 24				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, (1855 MHz)									
LTE25	3.710	-26.2	V	3.0	30.2	1.0	-55.4	-13.0	-42.4	
	5.565	-29.2	V	3.0	28.4	1.0	-56.6	-13.0	-43.6	
10MHz	7.420	-28.3	V	3.0	26.5	1.0	-53.8	-13.0	-40.8	
	3.710	-24.9	H	3.0	30.2	1.0	-54.0	-13.0	-41.0	
QPSK	5.565	-28.4	H	3.0	28.4	1.0	-55.7	-13.0	-42.7	
	7.420	-23.2	H	3.0	26.5	1.0	-48.6	-13.0	-35.6	
	Mid Ch, (1882.5 MHz)									
	3.765	-25.5	V	3.0	30.1	1.0	-54.6	-13.0	-41.6	
	5.648	-30.2	V	3.0	28.3	1.0	-57.5	-13.0	-44.5	
	7.530	-24.3	V	3.0	26.3	1.0	-49.6	-13.0	-36.6	
	3.765	-24.7	H	3.0	30.1	1.0	-53.9	-13.0	-40.9	
	5.648	-28.7	H	3.0	28.3	1.0	-56.0	-13.0	-43.0	
	7.530	-21.9	H	3.0	26.3	1.0	-47.2	-13.0	-34.2	
	High Ch, (1910 MHz)									
	3.820	-26.1	V	3.0	30.1	1.0	-55.2	-13.0	-42.2	
	5.730	-29.4	V	3.0	28.2	1.0	-56.6	-13.0	-43.6	
	7.640	-27.3	V	3.0	26.2	1.0	-52.5	-13.0	-39.5	
	3.820	-24.2	H	3.0	30.1	1.0	-53.3	-13.0	-40.3	
	5.730	-28.4	H	3.0	28.2	1.0	-55.6	-13.0	-42.6	
	7.640	-22.1	H	3.0	26.2	1.0	-47.3	-13.0	-34.3	
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		R. Alegre								
Configuration:		EUT , AC Adapter								
Mode:		TX, LTE band 25, 5MHz, 16QAM								
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber A		T145 8449B		Filter 1		Part 24				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE25 5MHz 16QAM	Low Ch, (1852.5 MHz)									
	3.705	-24.4	V	3.0	30.2	1.0	-53.6	-13.0	-40.6	
	5.558	-30.0	V	3.0	28.4	1.0	-57.4	-13.0	-44.4	
	7.410	-27.4	V	3.0	26.5	1.0	-52.9	-13.0	-39.9	
	3.705	-24.9	H	3.0	30.2	1.0	-54.1	-13.0	-41.1	
	5.558	-29.5	H	3.0	28.4	1.0	-56.8	-13.0	-43.8	
	7.410	-24.9	H	3.0	26.5	1.0	-50.4	-13.0	-37.4	
	Mid Ch, (1882.5 MHz)									
	3.765	-25.4	V	3.0	30.1	1.0	-54.6	-13.0	-41.6	
	5.648	-29.2	V	3.0	28.3	1.0	-56.5	-13.0	-43.5	
	7.530	-26.8	V	3.0	26.3	1.0	-52.2	-13.0	-39.2	
	3.765	-25.3	H	3.0	30.1	1.0	-54.4	-13.0	-41.4	
	5.648	-28.6	H	3.0	28.3	1.0	-55.9	-13.0	-42.9	
	7.530	-24.9	H	3.0	26.3	1.0	-50.2	-13.0	-37.2	
	High Ch, (1912.5 MHz)									
	3.825	-23.5	V	3.0	30.1	1.0	-52.6	-13.0	-39.6	
	5.738	-30.0	V	3.0	28.2	1.0	-57.2	-13.0	-44.2	
	7.650	-27.0	V	3.0	26.2	1.0	-52.1	-13.0	-39.1	
	3.825	-24.7	H	3.0	30.1	1.0	-53.8	-13.0	-40.8	
	5.738	-28.0	H	3.0	28.2	1.0	-55.2	-13.0	-42.2	
	7.650	-21.9	H	3.0	26.2	1.0	-47.1	-13.0	-34.1	
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		R. Alegre								
Configuration:		EUT , AC Adapter								
Mode:		TX, LTE band 25, 5MHz, QPSK								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T145 8449B			Filter 1		Part 24			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (1852.5 MHz)										
LTE25	3.705	-24.1	V	3.0	30.2	1.0	-53.3	-13.0	-40.3	
	5.558	-30.6	V	3.0	28.4	1.0	-58.0	-13.0	-45.0	
5MHz	7.410	-27.7	V	3.0	26.5	1.0	-53.2	-13.0	-40.2	
	3.705	-24.0	H	3.0	30.2	1.0	-53.2	-13.0	-40.2	
	5.558	-29.0	H	3.0	28.4	1.0	-56.3	-13.0	-43.3	
QPSK	7.410	-24.1	H	3.0	26.5	1.0	-49.5	-13.0	-36.5	
Mid Ch, (1882.5 MHz)										
	3.765	-25.2	V	3.0	30.1	1.0	-54.4	-13.0	-41.4	
	5.648	-28.4	V	3.0	28.3	1.0	-55.7	-13.0	-42.7	
	7.530	-27.0	V	3.0	26.3	1.0	-52.3	-13.0	-39.3	
	3.765	-25.1	H	3.0	30.1	1.0	-54.2	-13.0	-41.2	
	5.648	-28.8	H	3.0	28.3	1.0	-56.1	-13.0	-43.1	
	7.530	-24.4	H	3.0	26.3	1.0	-49.7	-13.0	-36.7	
High Ch, (1912.5 MHz)										
	3.825	-23.5	V	3.0	30.1	1.0	-52.6	-13.0	-39.6	
	5.738	-28.9	V	3.0	28.2	1.0	-56.0	-13.0	-43.0	
	7.650	-26.9	V	3.0	26.2	1.0	-52.0	-13.0	-39.0	
	3.825	-25.0	H	3.0	30.1	1.0	-54.1	-13.0	-41.1	
	5.738	-27.7	H	3.0	28.2	1.0	-54.9	-13.0	-41.9	
	7.650	-21.4	H	3.0	26.2	1.0	-46.6	-13.0	-33.6	
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		R. Alegre								
Configuration:		EUT , AC Adapter								
Mode:		TX, LTE band 25, 3MHz, 16QAM								
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber A		T145 8449B		Filter 1		Part 24				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (1851.5 MHz)										
LTE25	3.703	-25.9	V	3.0	30.2	1.0	-55.1	-13.0	-42.1	
	5.555	-30.2	V	3.0	28.4	1.0	-57.5	-13.0	-44.5	
3MHz	7.406	-28.4	V	3.0	26.5	1.0	-53.9	-13.0	-40.9	
	3.703	-25.7	H	3.0	30.2	1.0	-54.9	-13.0	-41.9	
	5.555	-28.8	H	3.0	28.4	1.0	-56.2	-13.0	-43.2	
16QAM	7.406	-21.4	H	3.0	26.5	1.0	-46.8	-13.0	-33.8	
Mid Ch, (1882.5 MHz)										
	3.765	-25.8	V	3.0	30.1	1.0	-55.0	-13.0	-42.0	
	5.647	-30.0	V	3.0	28.3	1.0	-57.3	-13.0	-44.3	
	7.530	-28.3	V	3.0	26.3	1.0	-53.6	-13.0	-40.6	
	3.765	-24.9	H	3.0	30.1	1.0	-54.1	-13.0	-41.1	
	5.647	-28.3	H	3.0	28.3	1.0	-55.6	-13.0	-42.6	
	7.530	-21.9	H	3.0	26.3	1.0	-47.2	-13.0	-34.2	
High Ch, (1913.5 MHz)										
	3.828	-24.4	V	3.0	30.1	1.0	-53.5	-13.0	-40.5	
	5.741	-29.5	V	3.0	28.2	1.0	-56.7	-13.0	-43.7	
	7.654	-28.7	V	3.0	26.1	1.0	-53.9	-13.0	-40.9	
	3.828	-23.8	H	3.0	30.1	1.0	-52.9	-13.0	-39.9	
	5.741	-28.5	H	3.0	28.2	1.0	-55.6	-13.0	-42.6	
	7.654	-21.7	H	3.0	26.1	1.0	-46.8	-13.0	-33.8	
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		R. Alegre								
Configuration:		EUT , AC Adapter								
Mode:		TX, LTE band 25, 3MHz, QPSK								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T145 8449B			Filter 1		Part 24			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (1851.5 MHz)										
LTE25	3.703	-26.4	V	3.0	30.2	1.0	-55.6	-13.0	-42.6	
	5.555	-29.8	V	3.0	28.4	1.0	-57.1	-13.0	-44.1	
3MHz	7.406	-27.6	V	3.0	26.5	1.0	-53.1	-13.0	-40.1	
	3.703	-25.0	H	3.0	30.2	1.0	-54.2	-13.0	-41.2	
	5.555	-28.0	H	3.0	28.4	1.0	-55.4	-13.0	-42.4	
QPSK	7.406	-21.9	H	3.0	26.5	1.0	-47.4	-13.0	-34.4	
Mid Ch, (1882.5 MHz)										
	3.765	-25.4	V	3.0	30.1	1.0	-54.6	-13.0	-41.6	
	5.648	-29.8	V	3.0	28.3	1.0	-57.1	-13.0	-44.1	
	7.530	-28.4	V	3.0	26.3	1.0	-53.7	-13.0	-40.7	
	3.765	-24.5	H	3.0	30.1	1.0	-53.7	-13.0	-40.7	
	5.648	-28.5	H	3.0	28.3	1.0	-55.8	-13.0	-42.8	
	7.530	-21.5	H	3.0	26.3	1.0	-46.8	-13.0	-33.8	
High Ch, (1913.5 MHz)										
	3.828	-25.0	V	3.0	30.1	1.0	-54.1	-13.0	-41.1	
	5.741	-29.3	V	3.0	28.2	1.0	-56.4	-13.0	-43.4	
	7.654	-27.6	V	3.0	26.1	1.0	-52.7	-13.0	-39.7	
	3.828	-24.1	H	3.0	30.1	1.0	-53.2	-13.0	-40.2	
	5.741	-28.2	H	3.0	28.2	1.0	-55.4	-13.0	-42.4	
	7.654	-21.2	H	3.0	26.1	1.0	-46.3	-13.0	-33.3	
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		14U17849								
Date:		05/28/14								
Test Engineer:		R. Alegre								
Configuration:		EUT with AC charger								
Mode:		Tx, 1900MHz HSDPA								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T34 8449B			Filter 1		Part 24			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1852.4MHz									
	3.705	-13.5	V	3.0	35.4	1.0	-47.9	-13.0	-34.9	
Band 2	5.557	-14.5	V	3.0	34.7	1.0	-48.2	-13.0	-35.2	
	7.409	-13.4	V	3.0	34.9	1.0	-47.3	-13.0	-34.3	
HSDPA	3.705	-17.3	H	3.0	35.4	1.0	-51.7	-13.0	-38.7	
	5.557	-15.0	H	3.0	34.7	1.0	-48.7	-13.0	-35.7	
	7.409	-12.5	H	3.0	34.9	1.0	-46.4	-13.0	-33.4	
	Mid Ch, 1880MHz									
	3.760	-13.6	V	3.0	35.3	1.0	-48.0	-13.0	-35.0	
	5.640	-13.3	V	3.0	34.7	1.0	-47.0	-13.0	-34.0	
	7.520	-11.6	V	3.0	34.9	1.0	-45.5	-13.0	-32.5	
	3.760	-15.5	H	3.0	35.3	1.0	-49.8	-13.0	-36.8	
	5.640	-13.5	H	3.0	34.7	1.0	-47.2	-13.0	-34.2	
	7.520	-13.0	H	3.0	34.9	1.0	-46.9	-13.0	-33.9	
	High Ch, 1907.6MHz									
	3.815	-13.8	V	3.0	35.3	1.0	-48.1	-13.0	-35.1	
	5.723	-16.1	V	3.0	34.7	1.0	-49.8	-13.0	-36.8	
	7.630	-13.5	V	3.0	34.9	1.0	-47.5	-13.0	-34.5	
	3.815	-17.4	H	3.0	35.3	1.0	-51.7	-13.0	-38.7	
	5.723	-14.7	H	3.0	34.7	1.0	-48.5	-13.0	-35.5	
	7.630	-12.2	H	3.0	34.9	1.0	-46.1	-13.0	-33.1	
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		14U17849								
Date:		05/28/14								
Test Engineer:		R. Alegre								
Configuration:		EUT with AC charger								
Mode:		Tx, 1900MHz Rel 99								
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber A		T34 8449B		Filter 1		Part 24				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1852.4MHz									
	3.705	-17.6	V	3.0	35.4	1.0	-52.0	-13.0	-39.0	
Band 2	5.557	-13.5	V	3.0	34.7	1.0	-47.2	-13.0	-34.2	
	7.409	-14.3	V	3.0	34.9	1.0	-48.2	-13.0	-35.2	
REL99	3.705	-17.0	H	3.0	35.4	1.0	-51.4	-13.0	-38.4	
	5.557	-12.0	H	3.0	34.7	1.0	-45.8	-13.0	-32.8	
	7.409	-12.9	H	3.0	34.9	1.0	-46.8	-13.0	-33.8	
	Mid Ch, 1880MHz									
	3.760	-17.1	V	3.0	35.3	1.0	-51.5	-13.0	-38.5	
	5.640	-12.8	V	3.0	34.7	1.0	-46.5	-13.0	-33.5	
	7.520	-13.1	V	3.0	34.9	1.0	-47.0	-13.0	-34.0	
	3.760	-16.5	H	3.0	35.3	1.0	-50.8	-13.0	-37.8	
	5.640	-9.3	H	3.0	34.7	1.0	-43.0	-13.0	-30.0	
	7.520	-11.9	H	3.0	34.9	1.0	-45.8	-13.0	-32.8	
	High Ch, 1907.6MHz									
	3.815	-17.0	V	3.0	35.3	1.0	-51.3	-13.0	-38.3	
	5.723	-14.4	V	3.0	34.7	1.0	-48.1	-13.0	-35.1	
	7.630	-13.9	V	3.0	34.9	1.0	-47.8	-13.0	-34.8	
	3.815	-15.5	H	3.0	35.3	1.0	-49.8	-13.0	-36.8	
	5.723	-12.3	H	3.0	34.7	1.0	-46.1	-13.0	-33.1	
	7.630	-12.7	H	3.0	34.9	1.0	-46.7	-13.0	-33.7	
Rev. 03.03.09										

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: LG
Project #: 14U17849
Date: 06/01/14
Test Engineer: R. Alegre
Configuration: EUT with AC charger
Mode: WCDMA_HSDPA_850

Chamber

5m Chamber A

Pre-amplifier

T34 8449B

Filter

Filter 1

Limit

	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 826.40MHz									
Band	1.652	-26.5	V	3.0	37.4	1.0	-62.8	-13.0	-49.8	
	2.479	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
Band 5	3.306	-21.1	V	3.0	35.8	1.0	-55.9	-13.0	-42.9	
	1.652	-19.3	H	3.0	37.4	1.0	-55.7	-13.0	-42.7	
	2.479	-23.9	H	3.0	36.4	1.0	-59.3	-13.0	-46.3	
HSDPA	3.306	-21.0	H	3.0	35.8	1.0	-55.8	-13.0	-42.8	
	Mid Ch, 836.6MHz									
	1.673	-26.2	V	3.0	37.3	1.0	-62.5	-13.0	-49.5	
	2.510	-22.2	V	3.0	36.4	1.0	-57.6	-13.0	-44.6	
	3.346	-21.1	V	3.0	35.8	1.0	-55.8	-13.0	-42.8	
	1.673	-2.5	H	3.0	37.3	1.0	-38.9	-13.0	-25.9	
	2.510	1.6	H	3.0	36.4	1.0	-33.8	-13.0	-20.8	
	3.346	-16.7	H	3.0	35.8	1.0	-51.5	-13.0	-38.5	
	High Ch, 846.6MHz									
	1.693	-25.5	V	3.0	37.3	1.0	-61.8	-13.0	-48.8	
	2.539	-22.4	V	3.0	36.3	1.0	-57.7	-13.0	-44.7	
	3.386	-20.6	V	3.0	35.7	1.0	-55.3	-13.0	-42.3	
	1.693	-5.7	H	3.0	37.3	1.0	-42.0	-13.0	-29.0	
	2.539	0.1	H	3.0	36.3	1.0	-35.2	-13.0	-22.2	
	3.386	-18.5	H	3.0	35.7	1.0	-53.3	-13.0	-40.3	

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: **LG**
 Project #: 14U17849
 Date: 06/01/14
 Test Engineer: R. Alegre
 Configuration: EUT with AC charger
 Mode: WCDMA_Rel 99_ 850

Chamber

5m Chamber A

Pre-amplifier

T34 8449B

Filter

Filter 1

Limit

	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 826.40MHz									
Band	1.652	-25.2	V	3.0	37.4	1.0	-61.6	-13.0	-48.6	
	2.479	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
Band 5	3.306	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
	1.652	-18.4	H	3.0	37.4	1.0	-54.8	-13.0	-41.8	
	2.479	-22.9	H	3.0	36.4	1.0	-58.3	-13.0	-45.3	
REL99	3.306	-20.6	H	3.0	35.8	1.0	-55.4	-13.0	-42.4	
	Mid Ch, 836.6MHz									
	1.673	-26.8	V	3.0	37.3	1.0	-63.1	-13.0	-50.1	
	2.510	-21.9	V	3.0	36.4	1.0	-57.3	-13.0	-44.3	
	3.346	-20.7	V	3.0	35.8	1.0	-55.5	-13.0	-42.5	
	1.673	-0.7	H	3.0	37.3	1.0	-37.1	-13.0	-24.1	
	2.510	4.0	H	3.0	36.4	1.0	-31.4	-13.0	-18.4	
	3.346	-15.1	H	3.0	35.8	1.0	-49.9	-13.0	-36.9	
	High Ch, 846.6MHz									
	1.693	-25.3	V	3.0	37.3	1.0	-61.6	-13.0	-48.6	
	2.539	-21.7	V	3.0	36.3	1.0	-57.0	-13.0	-44.0	
	3.386	-19.3	V	3.0	35.7	1.0	-54.0	-13.0	-41.0	
	1.693	-4.6	H	3.0	37.3	1.0	-40.9	-13.0	-27.9	
	2.539	-0.7	H	3.0	36.3	1.0	-36.0	-13.0	-23.0	
	3.386	-17.3	H	3.0	35.7	1.0	-52.0	-13.0	-39.0	

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		R. Alegre								
Configuration:		EUT with AC charger								
Mode:		EGPRS 1900								
Chamber		Pre-amplifer		Filter		Limit				
5m Chamber A		T343 8449B		Filter 1		Part 24				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
GSM1900	Low Ch, 1850MHz									
	3.700	-17.1	V	3.0	35.4	1.0	-51.5	-13.0	-38.5	
	5.550	-16.4	V	3.0	34.7	1.0	-50.1	-13.0	-37.1	
EGPRS	7.400	-13.8	V	3.0	34.9	1.0	-47.7	-13.0	-34.7	
	3.700	-18.4	H	3.0	35.4	1.0	-52.8	-13.0	-39.8	
	5.550	-15.9	H	3.0	34.7	1.0	-49.7	-13.0	-36.7	
	7.400	-14.0	H	3.0	34.9	1.0	-47.9	-13.0	-34.9	
	Mid Ch, 1880.0MHz									
	3.760	-18.0	V	3.0	35.3	1.0	-52.4	-13.0	-39.4	
5.640	-16.2	V	3.0	34.7	1.0	-49.9	-13.0	-36.9		
7.520	-14.5	V	3.0	34.9	1.0	-48.4	-13.0	-35.4		
3.760	-19.1	H	3.0	35.3	1.0	-53.4	-13.0	-40.4		
5.640	-15.8	H	3.0	34.7	1.0	-49.5	-13.0	-36.5		
7.520	-12.6	H	3.0	34.9	1.0	-46.5	-13.0	-33.5		
High Ch, 1909.8 MHz										
3.820	-16.8	V	3.0	35.3	1.0	-51.1	-13.0	-38.1		
5.729	-15.2	V	3.0	34.7	1.0	-48.9	-13.0	-35.9		
7.639	-13.5	V	3.0	35.0	1.0	-47.5	-13.0	-34.5		
3.820	-17.9	H	3.0	35.3	1.0	-52.1	-13.0	-39.1		
5.729	-14.7	H	3.0	34.7	1.0	-48.4	-13.0	-35.4		
7.639	-13.3	H	3.0	35.0	1.0	-47.2	-13.0	-34.2		
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		R. Alegre								
Configuration:		EUT with AC charger								
Mode:		GPRS 1900								
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber A		T343 8449B		Filter 1		Part 24				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
GSM1900	Low Ch, 1850MHz									
	3.700	-17.6	V	3.0	35.4	1.0	-52.0	-13.0	-39.0	
	5.550	-15.7	V	3.0	34.7	1.0	-49.4	-13.0	-36.4	
GPRS	7.400	-14.6	V	3.0	34.9	1.0	-48.5	-13.0	-35.5	
	3.700	-18.5	H	3.0	35.4	1.0	-52.9	-13.0	-39.9	
	5.550	-15.3	H	3.0	34.7	1.0	-49.0	-13.0	-36.0	
	7.400	-12.4	H	3.0	34.9	1.0	-46.3	-13.0	-33.3	
	Mid Ch, 1880.0MHz									
	3.760	-18.0	V	3.0	35.3	1.0	-52.3	-13.0	-39.3	
5.640	-15.8	V	3.0	34.7	1.0	-49.5	-13.0	-36.5		
7.520	-14.1	V	3.0	34.9	1.0	-48.1	-13.0	-35.1		
3.760	-18.8	H	3.0	35.3	1.0	-53.1	-13.0	-40.1		
5.640	-15.0	H	3.0	34.7	1.0	-48.7	-13.0	-35.7		
7.520	-12.8	H	3.0	34.9	1.0	-46.7	-13.0	-33.7		
High Ch, 1909.8 MHz										
3.820	-17.0	V	3.0	35.3	1.0	-51.3	-13.0	-38.3		
5.729	-15.3	V	3.0	34.7	1.0	-49.0	-13.0	-36.0		
7.639	-14.2	V	3.0	35.0	1.0	-48.2	-13.0	-35.2		
3.820	-17.9	H	3.0	35.3	1.0	-52.2	-13.0	-39.2		
5.729	-15.0	H	3.0	34.7	1.0	-48.8	-13.0	-35.8		
7.639	-12.8	H	3.0	35.0	1.0	-46.7	-13.0	-33.7		
Rev. 03.03.09										

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		14U17849								
Date:		06/01/14								
Test Engineer:		R. Alegre								
Configuration:		EUT with AC charger								
Mode:		EGPRS 850								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T34 8449B			Filter 1					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
GSM850 EGPRS	Low Ch, 824.2MHz									
	1.648	-26.4	V	3.0	37.4	1.0	-62.8	-13.0	-49.8	
	2.473	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
	3.297	-20.9	V	3.0	35.8	1.0	-55.7	-13.0	-42.7	
	1.648	-23.8	H	3.0	37.4	1.0	-60.2	-13.0	-47.2	
	2.473	-21.8	H	3.0	36.4	1.0	-57.2	-13.0	-44.2	
	3.297	-21.2	H	3.0	35.8	1.0	-56.0	-13.0	-43.0	
	Mid Ch, 836.6MHz									
	1.673	0.4	V	3.0	37.3	1.0	-35.9	-13.0	-22.9	
	2.510	7.6	V	3.0	36.4	1.0	-27.8	-13.0	-14.8	
	3.346	-10.0	V	3.0	35.8	1.0	-44.8	-13.0	-31.8	
	1.673	5.9	H	3.0	37.3	1.0	-30.4	-13.0	-17.4	
	2.510	10.7	H	3.0	36.4	1.0	-24.7	-13.0	-11.7	
	3.346	-6.0	H	3.0	35.8	1.0	-40.7	-13.0	-27.7	
	High Ch, 848.8MHz									
1.698	2.1	V	3.0	37.3	1.0	-34.2	-13.0	-21.2		
2.547	8.0	V	3.0	36.3	1.0	-27.3	-13.0	-14.3		
3.395	-9.9	V	3.0	35.7	1.0	-44.7	-13.0	-31.7		
1.698	5.8	H	3.0	37.3	1.0	-30.5	-13.0	-17.5		
2.547	10.0	H	3.0	36.3	1.0	-25.3	-13.0	-12.3		
3.395	-5.3	H	3.0	35.7	1.0	-40.0	-13.0	-27.0		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: LG
Project #: 14U17849
Date: 06/01/14
Test Engineer: R. Alegre
Configuration: EUT with AC charger
Mode: GPRS 850

Chamber

Pre-amplifier

Filter

Limit

5m Chamber A

T34 8449B

Filter 1

	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band GSM850 GPRS	Low Ch, 824.2MHz										
		1.648	-24.7	V	3.0	37.4	1.0	-61.1	-13.0	-48.1	
		2.473	-21.3	V	3.0	36.4	1.0	-56.7	-13.0	-43.7	
		3.297	-20.0	V	3.0	35.8	1.0	-54.8	-13.0	-41.8	
		1.648	-19.6	H	3.0	37.4	1.0	-56.0	-13.0	-43.0	
		2.473	-18.7	H	3.0	36.4	1.0	-54.1	-13.0	-41.1	
		3.297	-21.5	H	3.0	35.8	1.0	-56.3	-13.0	-43.3	
		Mid Ch, 836.6MHz									
		1.673	1.6	V	3.0	37.3	1.0	-34.7	-13.0	-21.7	
		2.510	8.2	V	3.0	36.4	1.0	-27.2	-13.0	-14.2	
		3.346	-8.4	V	3.0	35.8	1.0	-43.1	-13.0	-30.1	
		1.673	8.5	H	3.0	37.3	1.0	-27.9	-13.0	-14.9	
		2.510	12.4	H	3.0	36.4	1.0	-22.9	-13.0	-9.9	
		3.346	-4.3	H	3.0	35.8	1.0	-39.1	-13.0	-26.1	
		High Ch, 848.8MHz									
	1.698	3.5	V	3.0	37.3	1.0	-32.8	-13.0	-19.8		
	2.547	9.0	V	3.0	36.3	1.0	-26.3	-13.0	-13.3		
	3.395	-7.9	V	3.0	35.7	1.0	-42.6	-13.0	-29.6		
	1.698	9.1	H	3.0	37.3	1.0	-27.2	-13.0	-14.2		
	2.547	13.7	H	3.0	36.3	1.0	-21.6	-13.0	-8.6		
	3.395	-4.2	H	3.0	35.7	1.0	-38.9	-13.0	-25.9		

Rev. 03.03.09
 Note: No other emissions were detected above the system noise floor.

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		14U17849							
Date:		6/5/14							
Test Engineer:		D. Soper							
Configuration:		EUT with AC adapter & HS							
Mode:		EVDOR0 BC10 HARM							
Chamber		Pre-amplifier			Filter		Limit		
5m Chamber A		T343 8449B			Filter 1				
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 817.9MHz									
1.635	-19.2	V	3.0	37.4	1.0	-55.6	-13.0	-42.6	
2.453	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
3.271	-23.0	V	3.0	35.8	1.0	-57.8	-13.0	-44.8	
1.635	-24.0	H	3.0	37.4	1.0	-60.4	-13.0	-47.4	
2.453	-27.3	H	3.0	36.4	1.0	-62.7	-13.0	-49.7	
3.271	-23.3	H	3.0	35.8	1.0	-58.1	-13.0	-45.1	
Mid Ch, 820.5MHz									
1.641	-28.2	V	3.0	37.4	1.0	-64.6	-13.0	-51.6	
2.461	-25.3	V	3.0	36.4	1.0	-60.7	-13.0	-47.7	
3.280	-21.3	V	3.0	35.8	1.0	-56.2	-13.0	-43.2	
1.641	-22.9	H	3.0	37.4	1.0	-59.3	-13.0	-46.3	
2.461	-27.7	H	3.0	36.4	1.0	-63.1	-13.0	-50.1	
3.280	-23.0	H	3.0	35.8	1.0	-57.8	-13.0	-44.8	
High Ch, 823.1 MHz									
1.646	-21.6	V	3.0	37.4	1.0	-58.0	-13.0	-45.0	
2.469	-23.8	V	3.0	36.4	1.0	-59.2	-13.0	-46.2	
3.292	-23.0	V	3.0	35.8	1.0	-57.8	-13.0	-44.8	
1.646	-23.4	H	3.0	37.4	1.0	-59.8	-13.0	-46.8	
2.469	-27.0	H	3.0	36.4	1.0	-62.4	-13.0	-49.4	
3.292	-23.2	H	3.0	35.8	1.0	-58.0	-13.0	-45.0	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

EVDOR
0
BC10

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		14U17849							
Date:		6/5/14							
Test Engineer:		D. Soper							
Configuration:		EUT with AC adapter & HS							
Mode:		RTT BC10 HARM							
Chamber		Pre-amplifier			Filter		Limit		
5m Chamber A		T343 8449B			Filter 1				
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 817.9MHz									
1.635	-29.7	V	3.0	37.4	1.0	-66.1	-13.0	-53.1	
2.453	-25.8	V	3.0	36.4	1.0	-61.2	-13.0	-48.2	
3.271	-23.0	V	3.0	35.8	1.0	-57.8	-13.0	-44.8	
1.635	-22.9	H	3.0	37.4	1.0	-59.3	-13.0	-46.3	
2.453	-27.8	H	3.0	36.4	1.0	-63.2	-13.0	-50.2	
3.271	-23.2	H	3.0	35.8	1.0	-58.0	-13.0	-45.0	
Mid Ch, 820.5MHz									
1.641	-29.6	V	3.0	37.4	1.0	-66.0	-13.0	-53.0	
2.461	-25.7	V	3.0	36.4	1.0	-61.2	-13.0	-48.2	
3.280	-22.6	V	3.0	35.8	1.0	-57.5	-13.0	-44.5	
1.641	-23.7	H	3.0	37.4	1.0	-60.1	-13.0	-47.1	
2.461	-27.5	H	3.0	36.4	1.0	-62.9	-13.0	-49.9	
3.280	-22.6	H	3.0	35.8	1.0	-57.4	-13.0	-44.4	
High Ch, 823.1 MHz									
1.646	-28.1	V	3.0	37.4	1.0	-64.5	-13.0	-51.5	
2.469	-26.0	V	3.0	36.4	1.0	-61.4	-13.0	-48.4	
3.292	-22.9	V	3.0	35.8	1.0	-57.7	-13.0	-44.7	
1.646	-23.6	H	3.0	37.4	1.0	-59.9	-13.0	-46.9	
2.469	-27.2	H	3.0	36.4	1.0	-62.6	-13.0	-49.6	
3.292	-23.1	H	3.0	35.8	1.0	-57.9	-13.0	-44.9	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

RTT
BC10

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		14U17849							
Date:		6/5/14							
Test Engineer:		D. Soper							
Configuration:		EUT with AC adapter & HS							
Mode:		EVDOR0 BC0 HARM							
Chamber		Pre-amplifier			Filter		Limit		
5m Chamber A		T343 8449B			Filter 1				
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7MHz									
1.650	-28.4	V	3.0	37.4	1.0	-64.8	-13.0	-51.8	
2.474	-25.2	V	3.0	36.4	1.0	-60.6	-13.0	-47.6	
3.298	-22.9	V	3.0	35.8	1.0	-57.7	-13.0	-44.7	
1.650	-28.2	H	3.0	37.4	1.0	-64.6	-13.0	-51.6	
2.474	-26.8	H	3.0	36.4	1.0	-62.2	-13.0	-49.2	
3.298	-23.2	H	3.0	35.8	1.0	-58.0	-13.0	-45.0	
Mid Ch, 836.52MHz									
1.673	-24.8	V	3.0	37.3	1.0	-61.1	-13.0	-48.1	
2.509	-25.0	V	3.0	36.4	1.0	-60.3	-13.0	-47.3	
3.346	-22.8	V	3.0	35.8	1.0	-57.5	-13.0	-44.5	
1.673	-14.3	H	3.0	37.3	1.0	-50.6	-13.0	-37.6	
2.509	-26.4	H	3.0	36.4	1.0	-61.7	-13.0	-48.7	
3.346	-22.4	H	3.0	35.8	1.0	-57.1	-13.0	-44.1	
High Ch, 848.31 MHz									
1.696	-29.1	V	3.0	37.3	1.0	-65.4	-13.0	-52.4	
2.544	-25.3	V	3.0	36.3	1.0	-60.7	-13.0	-47.7	
3.393	-20.5	V	3.0	35.7	1.0	-55.2	-13.0	-42.2	
1.696	14.8	H	3.0	37.3	1.0	-21.5	-13.0	-8.5	
2.544	0.8	H	3.0	36.3	1.0	-34.6	-13.0	-21.6	
3.393	-19.9	H	3.0	35.7	1.0	-54.6	-13.0	-41.6	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

EVDOR
0
BC0

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		14U17849							
Date:		06/02/14							
Test Engineer:		D. Soper							
Configuration:		EUT with AC charger & HS							
Mode:		RTT BC0							
Chamber		Pre-amplifer		Filter		Limit			
5m Chamber A		T34 8449B		Filter 1					
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
RTT									
BCO									
Low Ch, 824.2MHz									
1.648	-30.0	V	3.0	37.4	1.0	-66.4	-13.0	-53.4	
2.473	-29.7	V	3.0	36.4	1.0	-65.1	-13.0	-52.1	
3.297	-27.9	V	3.0	35.8	1.0	-62.7	-13.0	-49.7	
1.648	-29.2	H	3.0	37.4	1.0	-65.6	-13.0	-52.6	
2.473	-31.5	H	3.0	36.4	1.0	-66.9	-13.0	-53.9	
3.297	-28.1	H	3.0	35.8	1.0	-62.9	-13.0	-49.9	
Mid Ch, 836.52MHz									
1.673	-27.6	V	3.0	37.3	1.0	-64.0	-13.0	-51.0	
2.510	-29.5	V	3.0	36.4	1.0	-64.9	-13.0	-51.9	
3.346	-27.9	V	3.0	35.8	1.0	-62.6	-13.0	-49.6	
1.673	-29.7	H	3.0	37.3	1.0	-66.0	-13.0	-53.0	
2.510	-31.2	H	3.0	36.4	1.0	-66.6	-13.0	-53.6	
3.346	-27.5	H	3.0	35.8	1.0	-62.2	-13.0	-49.2	
High Ch, 848.31MHz									
1.697	-32.1	V	3.0	37.3	1.0	-68.4	-13.0	-55.4	
2.545	-29.5	V	3.0	36.3	1.0	-64.8	-13.0	-51.8	
3.393	-28.2	V	3.0	35.7	1.0	-62.9	-13.0	-49.9	
1.697	-32.3	H	3.0	37.3	1.0	-68.6	-13.0	-55.6	
2.545	-31.0	H	3.0	36.3	1.0	-66.4	-13.0	-53.4	
3.393	-28.0	H	3.0	35.7	1.0	-62.7	-13.0	-49.7	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		14U17849							
Date:		6/5/14							
Test Engineer:		D. Soper							
Configuration:		EUT with AC adapter & HS							
Mode:		EVDO BC01 HARM							
Chamber		Pre-amplifier		Filter		Limit			
5m Chamber A		T343 8449B		Filter 1		Part 24			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.25MHz									
3.703	-17.9	V	3.0	35.4	1.0	-52.3	-13.0	-39.3	
5.554	-16.6	V	3.0	34.7	1.0	-50.3	-13.0	-37.3	
7.405	-14.8	V	3.0	34.9	1.0	-48.7	-13.0	-35.7	
3.703	-16.0	H	3.0	35.4	1.0	-50.4	-13.0	-37.4	
5.554	-15.1	H	3.0	34.7	1.0	-48.8	-13.0	-35.8	
7.405	-13.6	H	3.0	34.9	1.0	-47.5	-13.0	-34.5	
Mid Ch, 1880.0MHz									
3.760	-16.7	V	3.0	35.3	1.0	-51.0	-13.0	-38.0	
5.640	-16.3	V	3.0	34.7	1.0	-50.0	-13.0	-37.0	
7.520	-14.3	V	3.0	34.9	1.0	-48.2	-13.0	-35.2	
3.760	-14.8	H	3.0	35.3	1.0	-49.1	-13.0	-36.1	
5.640	-16.0	H	3.0	34.7	1.0	-49.8	-13.0	-36.8	
7.520	-13.2	H	3.0	34.9	1.0	-47.1	-13.0	-34.1	
High Ch, 1908.75 MHz									
3.818	-18.2	V	3.0	35.3	1.0	-52.4	-13.0	-39.4	
5.726	-16.5	V	3.0	34.7	1.0	-50.2	-13.0	-37.2	
7.635	-13.9	V	3.0	34.9	1.0	-47.9	-13.0	-34.9	
3.818	-17.7	H	3.0	35.3	1.0	-52.0	-13.0	-39.0	
5.726	-15.4	H	3.0	34.7	1.0	-49.1	-13.0	-36.1	
7.635	-12.7	H	3.0	34.9	1.0	-46.7	-13.0	-33.7	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

EVDOR
0
BC1

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		14U17849							
Date:		06/02/14							
Test Engineer:		D. Soper							
Configuration:		EUT with AC charger & HS							
Mode:		RTT BC1							
<div style="border: 1px solid black; padding: 2px; text-align: center;">Chamber</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">5m Chamber A</div>		<div style="border: 1px solid black; padding: 2px; text-align: center;">Pre-amplifer</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">T34 8449B</div>		<div style="border: 1px solid black; padding: 2px; text-align: center;">Filter</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Filter 1</div>		<div style="border: 1px solid black; padding: 2px; text-align: center;">Limit</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Part 24</div>			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
RTT									
BC1									
Low Ch, 1851.25 MHz									
3.703	-23.6	V	3.0	35.4	1.0	-58.0	-13.0	-45.0	
5.554	-22.0	V	3.0	34.7	1.0	-55.7	-13.0	-42.7	
7.405	-20.8	V	3.0	34.9	1.0	-54.7	-13.0	-41.7	
3.703	-24.0	H	3.0	35.4	1.0	-58.4	-13.0	-45.4	
5.554	-22.7	H	3.0	34.7	1.0	-56.5	-13.0	-43.5	
7.405	-19.6	H	3.0	34.9	1.0	-53.5	-13.0	-40.5	
Mid Ch, 1880 MHz									
3.760	-13.0	V	3.0	35.3	1.0	-47.3	-13.0	-34.3	
5.640	-10.1	V	3.0	34.7	1.0	-43.9	-13.0	-30.9	
7.520	-9.4	V	3.0	34.9	1.0	-43.4	-13.0	-30.4	
3.760	-23.5	H	3.0	35.3	1.0	-57.8	-13.0	-44.8	
5.640	-21.3	H	3.0	34.7	1.0	-55.0	-13.0	-42.0	
7.520	-19.7	H	3.0	34.9	1.0	-53.6	-13.0	-40.6	
High Ch, 1908.75 MHz									
3.818	-23.1	V	3.0	35.3	1.0	-57.4	-13.0	-44.4	
5.726	-21.5	V	3.0	34.7	1.0	-55.2	-13.0	-42.2	
7.635	-20.5	V	3.0	34.9	1.0	-54.5	-13.0	-41.5	
3.818	-23.5	H	3.0	35.3	1.0	-57.8	-13.0	-44.8	
5.726	-20.8	H	3.0	34.7	1.0	-54.5	-13.0	-41.5	
7.635	-19.2	H	3.0	34.9	1.0	-53.2	-13.0	-40.2	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									