



FCC CFR47 PART 22 SUBPART H
FCC CFR47 PART 24 SUBPART E
FCC CFR47 PART 27 SUBPART F
FCC CFR47 PART 27 SUBPART H
FCC CFR47 PART 27 SUBPART L
FCC CFR47 PART 27 SUBPART M
FCC CFR47 PART 90 SUBPART S

C2PC CERTIFICATION TEST REPORT

FOR

GSM/CDMA/WCDMA/LTE PHONE + BLUETOOTH, with DTS/UNII a/b/g/n/ac & NFC

MODEL NUMBER: LG-LS991, LS991, LGLS991, LGAS991, AS991, LG-AS991

FCC ID: ZNFLS991

REPORT NUMBER: 15I20514-E1 REVISION A

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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.....	9
5.3.	MAXIMUM OUTPUT POWER (LTE).....	10
5.4.	DESCRIPTION OF AVAILABLE ANTENNAS	15
5.5.	DESCRIPTION OF TEST SETUP.....	16
5.6.	DESCRIPTION OF TEST SETUP.....	19
6.	TEST AND MEASUREMENT EQUIPMENT	20
7.	SUMMARY TABLE	21
	C2PC reason: Please see LG FCC Class II cover letter for details.	21
8.	RF POWER OUTPUT VERIFICATION.....	22
8.1.	GSM/GPRS/EDGE	22
8.1.1.	GSM OUTPUT POWER RESULT	23
8.2.	CDMA2000	24
8.2.1.	1xRTT.....	24
8.2.2.	CDMA2000 OUTPUT POWER RESULT	25
8.2.3.	1xEV-DO Release 0.....	26
8.2.4.	1XEVD0 REL 0 OUTPUT POWER RESULT.....	27
8.2.5.	1xEV-DO Rev. A.....	28
8.2.6.	1xEVD0 REV A OUTPUT RESULT.....	29
8.3.	UMTS REL 99.....	30
8.3.1.	UMTS REL 99 OUTPUT POWER RESULT	31
8.4.	UMTS HSDPA	32
8.4.1.	UMTS HSDPA OUTPUT POWER RESULT.....	33
8.5.	UMTS HSUPA	34

8.5.1. UMTS HSUPA OUTPUT POWER RESULT.....35
8.6. LTE OUTPUT VERIFICATION.....36
8.6.1. LTE OUTPUT RESULT36
9. RADIATED TEST RESULTS54
9.1. RADIATED POWER (ERP & EIRP).....54
9.1.1. ERP/EIRP RESULTS.....55
9.1.2. LTE ERP/EIRP RESULTS57
9.1.3. ERP/EIRP PLOTS67
9.2. FIELD STRENGTH OF SPURIOUS RADIATION..... 151
9.2.1. SPURIOUS RADIATION PLOTS 152
10. SETUP PHOTOS236

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: LG ELECTRONICS MOBILECOMM U.S.A., INC
EUT DESCRIPTION: GSM/CDMA/WCDMA/LTE PHONE + BLUETOOTH, with DTS/UNII a/b/g/n/ac & NFC
MODEL: LG-LS991, LS991, LGLS991, LGAS991, AS991, LG-AS991
SERIAL NUMBER: 1W43T (radiated)
DATE TESTED: APRIL 15- 28, 2015

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 22H, 24E, 27F, 27H, 27L, 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 22, FCC CFR Part 24, FCC CFR 47 Part 27, and FCC CFR 47 Part 90.

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(IC: 2324B-1)	<input type="checkbox"/> Chamber D(IC: 2324B-4)
<input checked="" type="checkbox"/> Chamber B(IC: 2324B-2)	<input type="checkbox"/> Chamber E(IC: 2324B-5)
<input checked="" type="checkbox"/> Chamber C(IC: 2324B-3)	<input checked="" type="checkbox"/> Chamber F(IC: 2324B-6)
	<input checked="" type="checkbox"/> Chamber G(IC: 2324B-7)
	<input type="checkbox"/> Chamber H(IC: 2324B-8)

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:

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

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

(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 1000 MHz	4.94 dB
Radiated Disturbance, 1GHz to 40GHz	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, with DTS/UNII a/b/g/n/ac & 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 mW	Conducted		Radiated	
			AVG(dBm)	AVG(mW)	AVG(dBm)	AVG(mW)
GSM850	824~849	GMSK	33.2	2089.30		
	824~849	GPRS	33.2	2089.30	30.2	1047.13
	824~849	EGPRS	27.7	588.84	24.8	301.99
GSM1900	1850~1910	GMSK	29.4	870.96		
	1850~1910	GPRS	29.4	870.96	30.80	1202.26
	1850~1910	EGPRS	26.7	467.74	28.90	776.25
Band 5	824~849	REL99	23.70	234.42	21.89	154.56
	824~849	HSDPA	23.70	234.42	21.58	143.91
	824~849	HSUPA	23.80	239.88		
Band 2	1850~1910	REL99	23.70	234.42	25.10	323.59
	1850~1910	HSDPA	23.70	234.42	24.70	295.12
	1850~1910	HSUPA	23.70	234.42		
BC10	816~824	1xRTT	25.20	331.13	21.55	142.92
	816~824	EVDO REL. 0	25.10	323.59	21.64	145.88
	816~824	EVDO REV. A	25.00	316.23		
BC0	824~849	1xRTT	25.20	331.13	21.96	157.07
	824~849	EVDO REL. 0	25.00	316.23	21.69	147.57
	824~849	EVDO REV. A	24.90	309.03		
BC1	1850~1910	1xRTT	24.90	309.03	24.75	473.15
	1850~1910	EVDO REL. 0	24.90	309.03	23.65	462.38
	1850~1910	EVDO REV. A	24.90	309.03		

5.3. MAXIMUM OUTPUT POWER (LTE)

LTE Band 2

FCC Part 24							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation	Conducted		Radiated	
				AVG(dBm)	AVG(mW)	AVG(dBm)	AVG(mW)
LTE2	1850~1910	20MHz	QPSK	23.70	234.42	25.40	346.74
			16QAM	22.70	186.21	24.78	300.61
		15MHz	QPSK	23.60	229.09	25.30	338.84
			16QAM	22.20	165.96	24.70	295.12
		10MHz	QPSK	23.70	234.42	25.30	338.84
			16QAM	22.40	173.78	24.70	295.12
		5MHz	QPSK	23.70	234.42	25.50	354.81
			16QAM	22.50	177.83	24.80	302.00
		3MHz	QPSK	23.70	234.42	25.69	370.68
			16QAM	22.10	162.18	25.08	322.11
		1.4MHz	QPSK	23.70	234.42	25.87	386.37
			16QAM	22.30	169.82	25.10	323.59

LTE Band 4

FCC Part 27							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation	Conducted		Radiated	
				AVG(dBm)	AVG(mW)	AVG(dBm)	AVG(mW)
LTE4	1710~1755	20MHz	QPSK	23.70	234.42	22.12	162.93
			16QAM	22.70	186.21	21.42	138.68
		15MHz	QPSK	23.70	234.42	22.23	167.11
			16QAM	22.40	173.78	21.53	142.23
		10MHz	QPSK	23.70	234.42	22.14	163.68
			16QAM	22.60	181.97	21.44	139.32
		5MHz	QPSK	23.70	234.42	22.24	167.49
			16QAM	22.70	186.21	21.54	142.56
		3MHz	QPSK	23.70	234.42	22.25	167.88
			16QAM	22.30	169.82	21.55	142.89
		1.4MHz	QPSK	23.70	234.42	22.30	169.82
			16QAM	22.40	173.78	21.45	139.64

LTE Band 5

FCC Part 22							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation	Conducted		Radiated	
				AVG(dBm)	AVG(mW)	AVG(dBm)	AVG(mW)
LTE5	824~849	10MHz	QPSK	23.60	229.09	20.55	113.50
			16QAM	22.40	173.78	20.01	100.23
		5MHz	QPSK	23.60	229.09	20.45	110.92
			16QAM	22.60	181.97	19.62	91.62
		3MHz	QPSK	23.50	223.87	20.66	116.41
			16QAM	22.00	158.49	19.71	93.54
		1.4MHz	QPSK	23.50	223.87	21.30	134.90
			16QAM	22.20	165.96	19.72	93.76

LTE Band 12

FCC Part 27							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation	Conducted		Radiated	
				AVG(dBm)	AVG(mW)	AVG(dBm)	AVG(mW)
LTE12	699~716	10MHz	QPSK	23.40	218.78	16.68	46.56
			16QAM	22.00	158.49	15.50	35.48
		5MHz	QPSK	23.40	218.78	16.13	41.02
			16QAM	22.20	165.96	15.06	32.06
		3MHz	QPSK	23.40	218.78	15.60	36.31
			16QAM	21.70	147.91	14.87	30.69
		1.4MHz	QPSK	23.40	218.78	15.28	33.73
			16QAM	22.00	158.49	14.73	29.72

LTE Band 25

FCC Part 22/24/27							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation	Conducted		Radiated	
				AVG(dBm)	AVG(mW)	AVG(dBm)	AVG(mW)
LTE25	1850~1915	20MHz	QPSK	23.70	234.42	25.40	346.74
			16QAM	22.70	186.21	24.78	300.61
		15MHz	QPSK	23.70	234.42	25.30	338.84
			16QAM	22.20	165.96	24.70	295.12
		10MHz	QPSK	23.70	234.42	25.30	338.84
			16QAM	22.50	177.83	24.70	295.12
		5MHz	QPSK	23.70	234.42	25.50	354.81
			16QAM	22.70	186.21	24.80	302.00
		3MHz	QPSK	23.70	234.42	25.69	370.68
			16QAM	22.40	173.78	25.08	322.11
		1.4MHz	QPSK	23.70	234.42	25.87	386.37
			16QAM	22.50	177.83	25.10	323.59

LTE Band 26 PART 90

FCC Part 90							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation	Conducted		Radiated	
				AVG(dBm)	AVG(mW)	AVG(dBm)	AVG(mW)
LTE26	814~824	10MHz	QPSK	23.60	229.09	20.55	113.50
			16QAM	22.30	169.82	19.30	85.11
		5MHz	QPSK	23.60	229.09	20.45	110.92
			16QAM	21.90	154.88	19.62	91.62
		3MHz	QPSK	23.60	229.09	20.66	116.41
			16QAM	22.20	165.96	19.71	93.54
		1.4MHz	QPSK	23.60	229.09	19.91	97.95
			16QAM	22.30	169.82	19.11	81.47

LTE Band 26 PART 22

FCC Part 22							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation	Conducted		Radiated	
				AVG(dBm)	AVG(mW)	AVG(dBm)	AVG(mW)
LTE26	824~849	15MHz	QPSK	23.60	229.09	20.54	113.24
			16QAM	22.10	162.18	19.47	88.51
		10MHz	QPSK	23.60	229.09	20.24	105.68
			16QAM	22.30	169.82	20.01	100.23
		5MHz	QPSK	23.60	229.09	20.21	104.95
			16QAM	22.30	169.82	19.31	85.31
		3MHz	QPSK	23.60	229.09	20.20	104.71
			16QAM	22.20	165.96	19.44	87.90
		1.4MHz	QPSK	23.60	229.09	21.30	134.90
			16QAM	22.30	169.82	19.72	93.76

LTE Band 41

FCC Part 27							
Band	Frequency Range(MHz)	BandWidth (MHz)	Modulation	Conducted		Radiated	
				AVG(dBm)	AVG(mW)	AVG(dBm)	AVG(mW)
LTE41	2496~2690	20MHz	QPSK	23.70	234.42	25.41	347.54
			16QAM	22.50	177.83	25.11	324.34
		15MHz	QPSK	23.60	229.09	25.51	355.63
			16QAM	22.60	181.97	24.91	309.74
		10MHz	QPSK	23.70	234.42	25.81	381.07
			16QAM	22.50	177.83	25.16	328.10
		5MHz	QPSK	23.70	234.42	26.63	460.26
			16QAM	22.60	181.97	25.51	355.63

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)
GSM1900/CDMA BC1/WCDMA B2/LTE B2 1850~1910MHz	-3.5
GSM850/CDMA BC0/WCDMA B5/LTE B5 824~849MHz	-7.1
LTE B4 1710~1755MHz	-5.2
LTE B12 699~716MHz	-5.9
LTE25, 1850~1915MHz	-3.5
CDMA BC10/LTE B26 814~849MHz	-7.1
LTE B41 2496~2690MHz	1.7

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	LG	MCS-04WD2	EAY62991904	N/A
Smart Case Cover	LG	LG-P1	DK0227	N/A
Wireless Charger	LG	WCD-110	LF1212625283010049	N/A
Earphone	LG	N/A	N/A	N/A

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

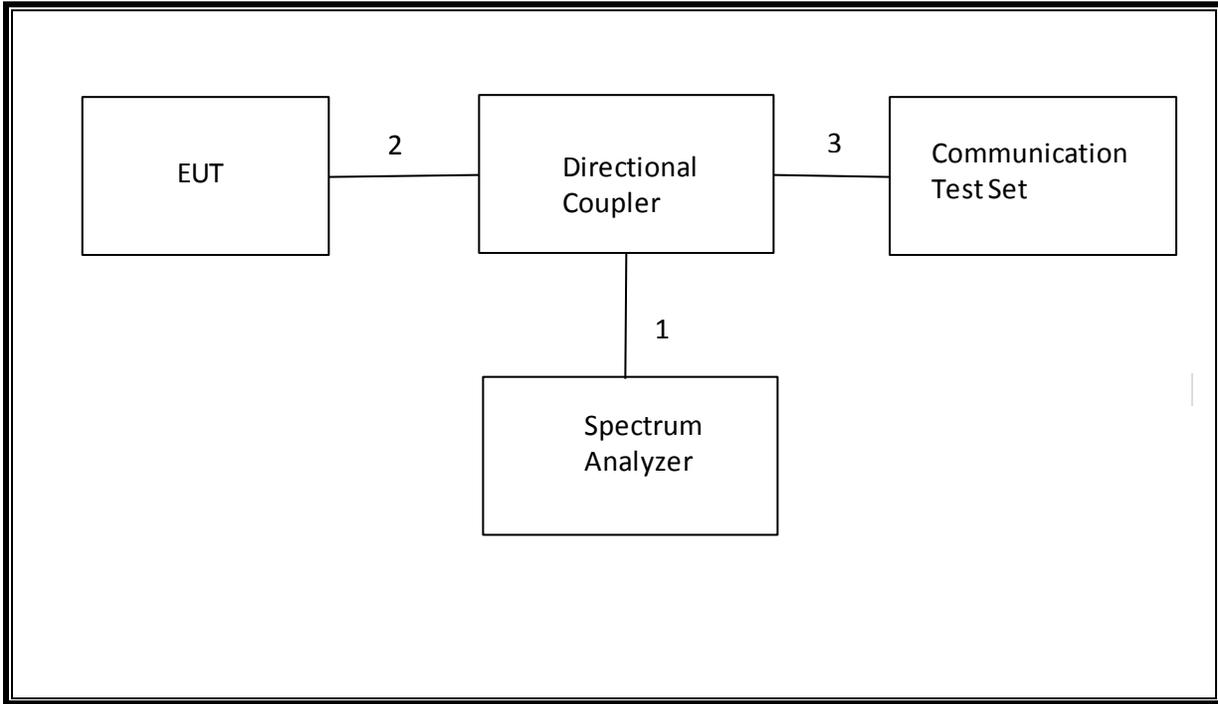
I/O CABLES (RADIATED SETUP)

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	NA
2	Jack	1	Headset	Shielded	1m	NA
3	RF In/out	1	Communication Test Set	Un-shielded	2m	NA

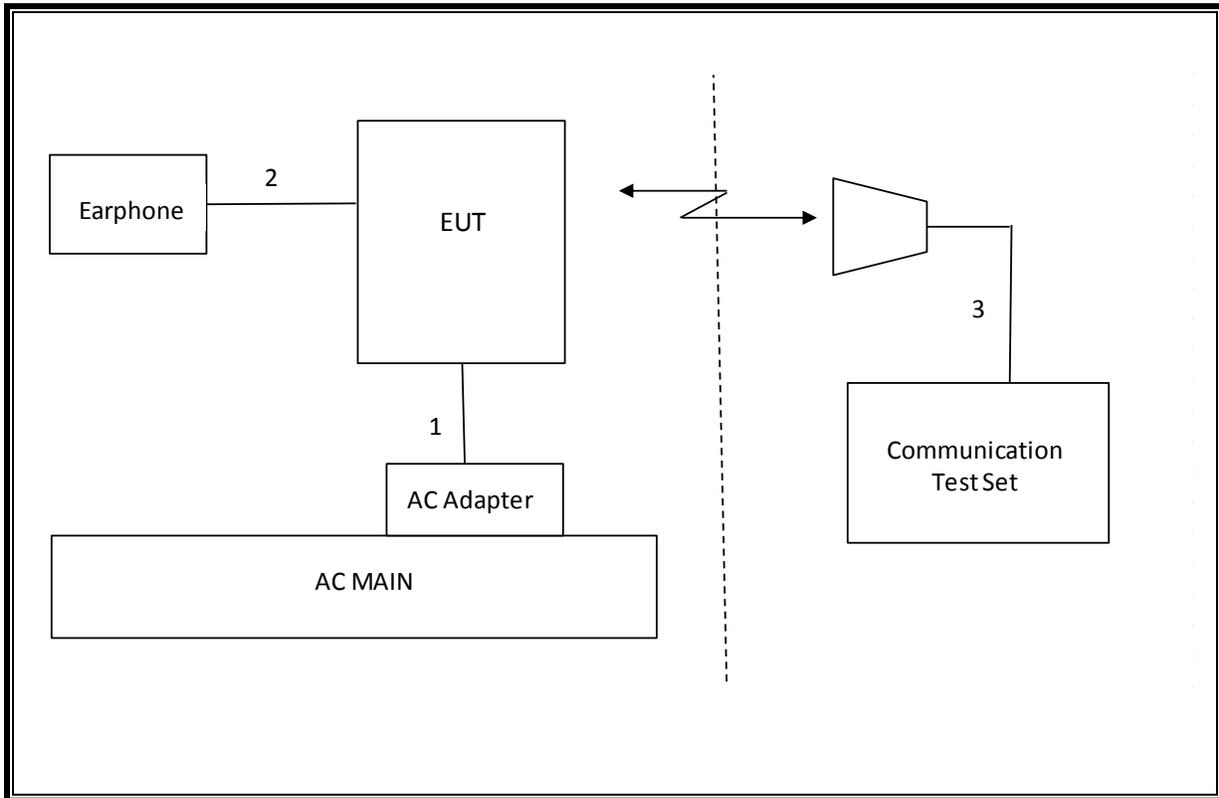
TEST SETUP

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)



5.6. DESCRIPTION OF TEST SETUP

Mode: LTE

PAR – Full RB is used for testing.

Occupied bandwidth- full RB is used for testing and 10.1.2 table column 4 shows the RB allocation.

Band edge- 1 RB and full RB are used for testing and test plot are provided in section 10.2.1

Out of Band Emission- 1 RB is used for testing

ERP/EIRP – 1RB is used for testing and table 11.1.2 column 4 shows the RB allocation

Spurious Emission- 1RB is used for testing.

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	123	10/28/15
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	T243	12/08/15
Antenna, Horn, 18 GHz	EMCO	3115	C00783	10/25/15
Antenna, Horn, 18 GHz	EMCO	3115	C00784	10/25/15
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	05/12/15
Communications Test Set	R&S	CMW500	T159	07/02/15
DC power supply, 8 V @ 3 A or 15 V	Agilent / HP	E3610A	None	CNR
Vector signal generator, 6 GHz	Agilent / HP	E4438C	None	06/18/15
Antenna, Tuned Dipole 400~1000	ETS	6502	158071	10/14/15
Directional Coupler	RF-Lambda	RFDC5M06G15	None	CNR
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00589	12/17/15

Test Software List			
Description	Manufacturer	Model	Version
Radiated Software	UL	UL EMC	Version 9.5, 07/22/14
Conducted Software	UL	UL EMC	Version 9.5, 05/17/14
CLT Software	UL	UL RF	Version 1.0, 02/02/15
Antenna Port Software	UL	UL RF	Version 2.1.1.1, 1/20/15

7. SUMMARY TABLE

C2PC reason: Please see LG FCC Class II cover letter for details.

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Note
2.1049	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
27.53(m)	RSS-199(4.5)		-25dBm		Pass	See Original
2.1046	N/A		Conducted output power		N/A	Pass
27.53(m) 90.691	RSS-199(4.5)	Emission Mask			Pass	See Original
22.355 24.235 27.54 90.213	RSS-132(4.3) RSS-133(6.3) RSS-139(6.3) RSS-199(4.3)	Frequency Stability	2.5PPM		Pass	See Original
22.913(a)(2)	RSS-132(4.4)	Effective Radiated Power	38 dBm		Radiated	Pass
27.50(c)(10)	N/A		34.77 dBm	Pass		16.68 dBm
90.635	N/A		50dBm	Pass		21.3 dBm
24.232(c) 27.50(h)(2)	RSS-133(6.4) RSS-199(4.4)	Equivalent Isotropic Radiated Power	33dBm	Pass		30.24 dBm
27.50(d)(4)	RSS-139(6.4)		30dBm	Pass		22.25 dBm
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		-37 dBm
27.53(m)	RSS-199(4.5)		-25dBm	Pass		-45.8 dBm

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	33.2
			190	836.6	33.2
			251	848.8	33.2
GPRS (GMSK)	CS1	1	128	824.2	33.2
			190	836.6	33.2
			251	848.8	33.2
		2	128	824.2	31.5
			190	836.6	31.5
			251	848.8	31.1
EGPRS (8PSK)	MCS5	1	128	824.2	27.7
			190	836.6	27.7
			251	848.8	27.7
		2	128	824.2	27.7
			190	836.6	27.6
			251	848.8	27.6

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Burst Pwr (dBm)
GSM (Voice)	CS1	1	512	1850.2	29.4
			661	1880.0	29.4
			810	1909.8	29.4
GPRS (GMSK)	CS1	1	512	1850.2	29.4
			661	1880.0	29.4
			810	1909.8	29.4
		2	512	1850.2	27.7
			661	1880.0	27.7
			810	1909.8	27.7
EGPRS (8PSK)	MCS5	1	512	1850.2	26.7
			661	1880.0	26.7
			810	1909.8	26.7
		2	512	1850.2	26.6
			661	1880.0	26.5
			810	1909.8	26.6

8.2. CDMA2000

8.2.1. 1xRTT

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>
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)

8.2.2. CDMA2000 OUTPUT POWER RESULT

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

Band	Mode	Ch	Freq. (MHz)	Avg Pwr (dBm)
BC0	RC1, SO55 (Loopback)	1013	824.70	25.2
		384	836.52	25.2
		777	848.31	25.2
	RC3, SO55 (Loopback)	1013	824.70	25.2
		384	836.52	25.2
		777	848.31	25.2
	RC3, SO32 (+F-SCH)	1013	824.70	25.2
		384	836.52	25.2
		777	848.31	25.2

Band	Mode	Ch	Freq. (MHz)	Avg Pwr (dBm)
BC1	RC1, SO55 (Loopback)	25	1851.25	24.9
		600	1880.00	24.9
		1175	1908.75	24.9
	RC3, SO55 (Loopback)	25	1851.25	24.9
		600	1880.00	24.9
		1175	1908.75	24.9
	RC3, SO32 (+F-SCH)	25	1851.25	24.9
		600	1880.00	24.9
		1175	1908.75	24.9

8.2.3. 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)

8.2.4. 1XEVD0 REL 0 OUTPUT POWER RESULT

Band	FTAP Rate	Channel	f (MHz)	Avg Pwr (dBm)
BC10	307.2 kbps (2 slot, QPSK)	476	817.90	25.1
		580	820.50	25.1
		684	823.10	25.1

Band	FTAP Rate	Channel	f (MHz)	Avg Pwr (dBm)
BC0	307.2 kbps (2 slot, QPSK)	1013	824.70	25.0
		384	836.52	24.9
		777	848.31	24.9

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

8.2.5. 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)

8.2.6. 1xEVDO REV A OUTPUT RESULT

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	25.0
		580	820.50	25.0
		684	823.10	25.0

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	24.9
		384	836.52	24.9
		777	848.31	24.8

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	24.8

8.3. 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

8.3.1. UMTS REL 99 OUTPUT POWER RESULT

Band	Mode	UL Ch No.	Freq. (MHz)	MPR	Avg Pwr (dBm)
W-CDMA Band V	Rel 99 (RMC, 12.2 kbps)	4132	826.4	0	23.7
		4183	836.6	0	23.7
		4233	846.6	0	23.7

Band	Mode	UL Ch No.	Freq. (MHz)	MPR	Avg Pwr (dBm)
W-CDMA Band II	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	0	23.7
		9400	1880.0	0	23.7
		9538	1907.6	0	23.7

8.4. 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			

8.4.1. UMTS HSDPA OUTPUT POWER RESULT

Band	Mode	UL Ch No.	Freq. (MHz)	MPR	Avg Pwr (dBm)
W-CDMA Band V	Subtest 1	4132	826.4	0	23.7
		4183	836.6	0	23.7
		4233	846.6	0	23.7
	Subtest 2	4132	826.4	0	23.7
		4183	836.6	0	23.7
		4233	846.6	0	23.7
	Subtest 3	4132	826.4	0.5	23.3
		4183	836.6	0.5	23.3
		4233	846.6	0.5	23.2
	Subtest 4	4132	826.4	0.5	23.3
		4183	836.6	0.5	23.2
		4233	846.6	0.5	23.2

Band	Mode	UL Ch No.	Freq. (MHz)	MPR	23.8
W-CDMA Band II	Subtest 1	9262	1852.4	0	23.7
		9400	1880.0	0	23.7
		9538	1907.6	0	23.7
	Subtest 2	9262	1852.4	0	23.7
		9400	1880.0	0	23.7
		9538	1907.6	0	23.7
	Subtest 3	9262	1852.4	0.5	22.4
		9400	1880.0	0.5	22.3
		9538	1907.6	0.5	22.6
	Subtest 4	9262	1852.4	0.5	21.8
		9400	1880.0	0.5	22.6
		9538	1907.6	0.5	21.8

8.5. 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	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.

8.5.1. UMTS HSUPA OUTPUT POWER RESULT

Band	Mode	UL Ch No.	Freq. (MHz)	MPR	Avg Pwr (dBm)
W-CDMA Band V	Subtest 1	4132	826.4	0	21.7
		4183	836.6	0	21.7
		4233	846.6	0	21.7
	Subtest 2	4132	826.4	2	21.7
		4183	836.6	2	21.7
		4233	846.6	2	21.7
	Subtest 3	4132	826.4	1	21.5
		4183	836.6	1	21.4
		4233	846.6	1	21.8
	Subtest 4	4132	826.4	2	21.7
		4183	836.6	2	21.7
		4233	846.6	2	21.7
	Subtest 5	4132	826.4	0	23.7
		4183	836.6	0	23.7
		4233	846.6	0	23.7

Band	Mode	UL Ch No.	Freq. (MHz)	MPR	Avg Pwr (dBm)
W-CDMA Band II	Subtest 1	9262	1852.4	0	21.8
		9400	1880.0	0	21.8
		9538	1907.6	0	21.8
	Subtest 2	9262	1852.4	2	21.7
		9400	1880.0	2	21.7
		9538	1907.6	2	21.7
	Subtest 3	9262	1852.4	1	21.5
		9400	1880.0	1	21.0
		9538	1907.6	1	21.9
	Subtest 4	9262	1852.4	2	21.7
		9400	1880.0	2	21.7
		9538	1907.6	2	21.7
	Subtest 5	9262	1852.4	0	23.7
		9400	1880.0	0	23.7
		9538	1907.6	0	23.7

8.6. LTE OUTPUT VERIFICATION

8.6.1. LTE OUTPUT RESULT

LTE Band 2

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						18700	18900	19100
						1860 MHz	1880 MHz	1900 MHz
LTE Band 2	20	QPSK	1	0	0	23.70	23.70	23.60
			1	49	0	23.70	23.70	23.50
			1	99	0	23.70	22.70	23.60
			50	0	1	22.70	22.70	22.60
			50	24	1	22.70	22.70	22.60
			50	50	1	22.70	22.60	22.60
		16QAM	100	0	1	22.70	22.60	22.60
			1	0	1	22.70	22.70	22.40
			1	49	1	22.70	22.60	22.10
			1	99	1	22.70	22.50	22.10
			50	0	2	21.70	21.70	21.60
			50	24	2	21.70	21.60	21.50
			50	50	2	21.70	21.60	21.50
			100	0	2	21.70	21.60	21.70
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						18675	18900	19125
						1857.5 MHz	1880 MHz	1902.5 MHz
LTE Band 2	15	QPSK	1	0	0	23.60	23.60	23.60
			1	37	0	23.40	23.50	23.60
			1	74	0	23.60	23.50	23.60
			36	0	1	22.70	22.70	22.50
			36	20	1	22.70	22.60	22.60
			36	39	1	22.70	22.60	22.60
			75	0	1	22.70	22.60	22.60
		16QAM	1	0	1	22.20	22.10	22.20
			1	37	1	22.10	22.00	22.00
			1	74	1	22.10	22.00	22.00
			36	0	2	21.70	21.70	21.50
			36	20	2	21.70	21.70	21.60
			36	39	2	21.70	21.70	21.60
			75	0	2	21.70	21.70	21.60

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						18650	18900	19150
						1855 MHz	1880 MHz	1905 MHz
LTE Band 2	10	QPSK	1	0	0	23.70	23.70	23.70
			1	25	0	23.70	23.70	23.70
			1	49	0	23.70	23.70	23.50
			25	0	1	22.70	22.70	22.60
			25	12	1	22.70	22.70	22.60
			25	25	1	22.60	22.70	22.50
		16QAM	50	0	1	22.70	22.70	22.60
			1	0	1	22.40	22.30	22.00
			1	25	1	22.20	22.10	22.00
			1	49	1	22.20	22.20	21.80
			25	0	2	21.70	21.70	21.70
			25	12	2	21.70	21.70	21.70
			25	25	2	21.70	21.70	21.60
			50	0	2	21.70	21.70	21.60
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						18625	18900	19175
						1852.5 MHz	1880 MHz	1907.5 MHz
LTE Band 2	5	QPSK	1	0	0	23.70	23.70	23.60
			1	12	0	23.60	23.70	23.40
			1	24	0	23.70	23.70	23.50
			12	0	1	22.70	22.70	22.50
			12	7	1	22.70	22.70	22.60
			12	13	1	22.70	22.60	22.50
		16QAM	25	0	1	22.70	22.60	22.50
			1	0	1	22.00	22.00	22.50
			1	12	1	21.90	22.00	22.50
			1	24	1	21.90	22.00	22.40
			12	0	2	21.70	21.70	21.60
			12	7	2	21.70	21.70	21.60
			12	13	2	21.70	21.70	21.60
			25	0	2	21.70	21.70	21.50

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						18615	18900	19185
						1851.5 MHz	1880 MHz	1908.5 MHz
LTE Band 2	3	QPSK	1	0	0	23.70	23.60	23.70
			1	8	0	23.70	23.60	23.60
			1	14	0	23.70	23.60	23.70
			8	0	1	22.70	22.60	22.60
			8	4	1	22.70	22.70	22.50
			8	7	1	22.60	22.60	22.50
			15	0	1	22.70	22.60	22.50
		16QAM	1	0	1	22.10	22.00	21.90
			1	8	1	22.10	22.00	21.70
			1	14	1	22.10	22.10	21.90
			8	0	2	21.70	21.70	21.50
			8	4	2	21.70	21.70	21.50
			8	7	2	21.70	21.70	21.40
			15	0	2	21.70	21.70	21.40
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						18607	18900	19193
						1850.7 MHz	1880 MHz	1909.3 MHz
LTE Band 2	1.4	QPSK	1	0	0	23.70	23.70	23.60
			1	3	0	23.70	23.70	23.70
			1	5	0	23.70	23.70	23.70
			3	0	0	23.60	23.60	23.40
			3	1	0	23.60	23.60	23.70
			3	3	0	23.60	23.60	23.50
			6	0	1	22.60	22.60	22.50
		16QAM	1	0	1	22.10	21.90	21.70
			1	3	1	22.10	22.10	22.00
			1	5	1	22.10	22.00	21.70
			3	0	1	22.20	22.10	21.90
			3	1	1	22.30	22.20	22.00
			3	3	1	22.20	22.20	22.00
			6	0	2	21.70	21.70	21.60

LTE Band 4

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						20050	20175	20300
						1720 MHz	1732.5 MHz	1745 MHz
LTE Band 4	20	QPSK	1	0	0	23.70	23.70	23.70
			1	49	0	23.70	23.70	23.70
			1	99	0	23.70	23.70	23.60
			50	0	1	22.70	22.70	22.70
			50	24	1	22.70	22.60	22.70
			50	50	1	22.70	22.60	22.70
			100	0	1	22.70	22.70	22.70
		16QAM	1	0	1	22.70	22.70	22.70
			1	49	1	22.70	22.70	22.40
			1	99	1	22.70	22.70	22.30
			50	0	2	21.70	21.70	21.70
			50	24	2	21.70	21.60	21.60
			50	50	2	21.60	21.60	21.60
			100	0	2	21.70	21.70	21.70
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						20025	20175	20325
						1717.5 MHz	1732.5 MHz	1747.5 MHz
LTE Band 4	15	QPSK	1	0	0	23.70	23.70	23.70
			1	37	0	23.70	23.60	23.60
			1	74	0	23.60	23.60	23.50
			36	0	1	22.60	22.70	22.60
			36	20	1	22.60	22.60	22.60
			36	39	1	22.60	22.60	22.60
			75	0	1	22.60	22.60	22.60
		16QAM	1	0	1	22.20	22.40	22.30
			1	37	1	22.10	22.20	22.20
			1	74	1	22.10	22.10	22.00
			36	0	2	21.60	21.70	21.70
			36	20	2	21.70	21.60	21.70
			36	39	2	21.70	21.60	21.60
			75	0	2	21.70	21.60	21.70

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						20000	20175	20350
						1715 MHz	1732.5 MHz	1750 MHz
LTE Band 4	10	QPSK	1	0	0	23.70	23.70	23.70
			1	25	0	23.70	23.70	23.70
			1	49	0	23.70	23.70	23.60
			25	0	1	22.70	22.60	22.50
			25	12	1	22.60	22.60	22.50
			25	25	1	22.60	22.60	22.50
			50	0	1	22.60	22.60	22.50
		16QAM	1	0	1	22.60	22.60	22.30
			1	25	1	22.30	22.30	22.10
			1	49	1	22.30	22.30	22.10
			25	0	2	21.70	21.70	21.70
			25	12	2	21.70	21.70	21.70
			25	25	2	21.70	21.70	21.60
			50	0	2	21.70	21.70	21.60
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						19975	20175	20375
						1712.5 MHz	1732.5 MHz	1752.5 MHz
LTE Band 4	5	QPSK	1	0	0	23.70	23.70	23.60
			1	12	0	23.70	23.60	23.50
			1	24	0	23.70	23.70	23.50
			12	0	1	22.60	22.60	22.60
			12	7	1	22.60	22.60	22.50
			12	13	1	22.60	22.60	22.50
			25	0	1	22.60	22.60	22.50
		16QAM	1	0	1	22.10	22.10	22.70
			1	12	1	22.10	22.10	22.70
			1	24	1	22.00	22.10	22.70
			12	0	2	21.60	21.60	21.70
			12	7	2	21.60	21.70	21.60
			12	13	2	21.70	21.70	21.60
			25	0	2	21.70	21.70	21.50

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						19965	20175	20385
						1711.5 MHz	1732.5 MHz	1753.5 MHz
LTE Band 4	3	QPSK	1	0	0	23.70	23.70	23.70
			1	8	0	23.70	23.70	23.70
			1	14	0	23.70	23.70	23.70
			8	0	1	22.60	22.60	22.50
			8	4	1	22.60	22.60	22.50
			8	7	1	22.60	22.60	22.50
			15	0	1	22.60	22.60	22.60
		16QAM	1	0	1	22.20	22.30	22.10
			1	8	1	22.30	22.30	22.00
			1	14	1	22.20	22.20	22.00
			8	0	2	21.60	21.60	21.50
			8	4	2	21.70	21.70	21.50
			8	7	2	21.70	21.60	21.50
			15	0	2	21.70	21.70	21.50
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						19957	20175	20393
						1710.7 MHz	1732.5 MHz	1754.3 MHz
LTE Band 4	1.4	QPSK	1	0	0	23.70	23.70	23.70
			1	3	0	23.70	23.70	23.70
			1	5	0	23.70	23.70	23.70
			3	0	0	23.60	23.60	23.60
			3	1	0	23.70	23.70	23.70
			3	3	0	23.70	23.60	23.60
			6	0	1	22.50	22.60	22.70
		16QAM	1	0	1	22.10	22.10	22.00
			1	3	1	22.30	22.30	22.20
			1	5	1	22.20	22.20	22.00
			3	0	1	22.30	22.30	22.20
			3	1	1	22.40	22.40	22.20
			3	3	1	22.30	22.40	22.20
			6	0	2	21.70	21.70	21.70

LTE Band 5

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						20450	20525	20600
						829 MHz	836.5 MHz	844 MHz
LTE Band 5	10	QPSK	1	0	0	23.60	23.60	23.50
			1	25	0	23.50	23.60	23.50
			1	49	0	23.50	23.40	23.40
			25	0	1	22.50	22.60	22.50
			25	12	1	22.50	22.60	22.50
			25	25	1	22.50	22.50	22.50
		16QAM	1	0	1	22.30	22.50	22.10
			1	25	1	22.00	22.40	22.00
			1	49	1	22.20	22.30	21.80
			25	0	2	21.60	21.70	21.60
			25	12	2	21.60	21.60	21.60
			25	25	2	21.60	21.50	21.60
			50	0	2	21.70	21.50	21.60
			50	0	2	21.70	21.50	21.60
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						20425	20525	20625
						826.5 MHz	836.5 MHz	846.5 MHz
LTE Band 5	5	QPSK	1	0	0	23.60	23.60	23.50
			1	12	0	23.50	23.60	23.30
			1	24	0	23.50	23.50	23.40
			12	0	1	22.40	22.50	22.50
			12	7	1	22.50	22.50	22.60
			12	13	1	22.50	22.50	22.50
			25	0	1	22.40	22.40	22.50
		16QAM	1	0	1	21.70	21.80	22.60
			1	12	1	21.80	21.80	22.60
			1	24	1	21.70	21.80	22.50
			12	0	2	21.50	21.50	21.60
			12	7	2	21.60	21.50	21.60
			12	13	2	21.50	21.50	21.60
			25	0	2	21.50	21.60	21.40

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						20415	20525	20635
						825.5 MHz	836.5 MHz	847.5 MHz
LTE Band 5	3	QPSK	1	0	0	23.50	23.50	23.50
			1	8	0	23.50	23.50	23.50
			1	14	0	23.50	23.50	23.60
			8	0	1	22.50	22.50	22.40
			8	4	1	22.50	22.50	22.50
			8	7	1	22.40	22.50	22.50
		16QAM	15	0	1	22.50	22.50	22.40
			1	0	1	22.00	22.00	21.80
			1	8	1	22.00	21.90	21.80
			1	14	1	22.00	22.10	21.90
			8	0	2	21.50	21.50	21.40
			8	4	2	21.50	21.60	21.50
			8	7	2	21.50	21.50	21.50
			15	0	2	21.50	21.50	21.40
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						20407	20525	20643
						824.7 MHz	836.5 MHz	848.3 MHz
LTE Band 5	1.4	QPSK	1	0	0	23.50	23.50	23.40
			1	3	0	23.50	23.50	23.50
			1	5	0	23.50	23.50	23.50
			3	0	0	23.40	23.40	23.40
			3	1	0	23.50	23.50	23.40
			3	3	0	23.40	23.40	23.40
		16QAM	6	0	1	22.50	22.40	22.50
			1	0	1	21.90	21.80	21.80
			1	3	1	22.00	22.00	22.00
			1	5	1	21.90	22.00	22.00
			3	0	1	22.10	22.10	22.00
			3	1	1	22.20	22.20	22.10
			3	3	1	22.10	22.10	22.10
			6	0	2	21.70	21.60	21.70

LTE Band 12

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						23060	23095	23130
						704 MHz	707.5 MHz	711 MHz
LTE Band 12	10	QPSK	1	0	0	23.40	23.40	23.40
			1	25	0	23.40	23.30	23.30
			1	49	0	23.30	23.20	23.20
			25	0	1	22.20	22.30	22.30
			25	12	1	22.20	22.20	22.30
			25	25	1	22.10	22.10	22.30
		16QAM	1	0	1	22.00	22.20	22.00
			1	25	1	22.00	21.90	21.80
			1	49	1	21.80	21.90	21.80
			25	0	2	21.30	21.40	21.30
			25	12	2	21.20	21.30	21.40
			25	25	2	21.20	21.20	21.30
			50	0	2	21.10	21.10	21.10
			50	0	2	21.10	21.10	21.10
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						23035	23095	23155
						701.5 MHz	707.5 MHz	713.5 MHz
LTE Band 12	5	QPSK	1	0	0	23.30	23.40	23.30
			1	12	0	23.20	23.20	23.20
			1	24	0	23.30	23.30	23.20
			12	0	1	22.20	22.20	22.20
			12	7	1	22.20	22.20	22.20
			12	13	1	22.20	22.10	22.20
			25	0	1	22.10	22.10	22.10
		16QAM	1	0	1	21.70	21.80	22.00
			1	12	1	21.80	21.80	22.20
			1	24	1	21.70	21.70	22.00
			12	0	2	21.20	21.10	21.40
			12	7	2	21.20	21.10	21.30
			12	13	2	21.10	21.00	21.20
			25	0	2	21.20	21.10	21.10

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						23025	23095	23165
						700.5 MHz	707.5 MHz	714.5 MHz
LTE Band 12	3	QPSK	1	0	0	23.30	23.40	23.40
			1	8	0	23.30	23.30	23.40
			1	14	0	23.30	23.30	23.30
			8	0	1	22.20	22.20	22.20
			8	4	1	22.20	22.20	22.30
			8	7	1	22.20	22.10	22.20
			15	0	1	22.20	22.10	22.20
		16QAM	1	0	1	21.70	21.70	21.80
			1	8	1	21.70	21.70	21.70
			1	14	1	21.70	21.70	21.70
			8	0	2	21.20	21.20	21.10
			8	4	2	21.20	21.10	21.20
			8	7	2	21.30	21.10	21.10
			15	0	2	21.20	21.10	21.10
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						23017	23095	23173
						699.7 MHz	707.5 MHz	715.3 MHz
LTE Band 12	1.4	QPSK	1	0	0	23.40	23.40	23.40
			1	3	0	23.40	23.40	23.40
			1	5	0	23.40	23.30	23.40
			3	0	0	23.30	23.20	23.30
			3	1	0	23.30	23.30	23.30
			3	3	0	23.30	23.30	23.30
			6	0	1	22.20	22.10	22.10
		16QAM	1	0	1	22.00	21.80	21.70
			1	3	1	21.80	21.70	21.70
			1	5	1	21.70	21.70	21.70
			3	0	1	21.80	21.80	21.80
			3	1	1	21.90	21.90	21.70
			3	3	1	21.80	21.80	21.70
			6	0	2	21.30	21.20	21.30

LTE Band 25

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						26140	26365	26590
						1860 MHz	1882.5 MHz	1905 MHz
LTE Band 25	20	QPSK	1	0	0	23.7	23.7	23.7
			1	49	0	23.7	23.6	23.6
			1	99	0	23.7	23.6	23.5
			50	0	1	22.5	22.5	22.5
			50	25	1	22.5	22.5	22.5
			50	49	1	22.5	22.4	22.5
			100	0	1	22.5	22.5	22.5
		16QAM	1	0	1	22.7	22.7	22.5
			1	49	1	22.7	22.7	22.4
			1	99	1	22.7	22.7	22.3
			50	0	2	21.7	21.5	21.5
			50	25	2	21.6	21.5	21.5
			50	49	2	21.7	21.5	21.5
			100	0	2	21.7	21.5	21.5
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						26115	26365	26615
						1857.5 MHz	1882.5 MHz	1907.5 MHz
LTE Band 25	15	QPSK	1	0	0	23.70	23.50	23.70
			1	37	0	23.70	23.50	23.70
			1	74	0	23.60	23.50	23.70
			36	0	1	22.50	22.40	22.50
			36	18	1	22.50	22.50	22.50
			36	35	1	22.50	22.40	22.50
			75	0	1	22.50	22.40	22.60
		16QAM	1	0	1	22.20	22.20	22.20
			1	37	1	22.10	22.00	22.20
			1	74	1	22.10	22.10	22.10
			36	0	2	21.60	21.50	21.50
			36	18	2	21.50	21.50	21.50
			36	35	2	21.50	21.40	21.60
			75	0	2	21.60	21.40	21.60

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	23.70	23.70	23.70
			1	24	0	23.70	23.70	23.70
			1	49	0	23.70	23.70	23.70
			25	0	1	22.70	22.70	22.70
			25	12	1	22.70	22.70	22.70
			25	24	1	22.70	22.70	22.70
			50	0	1	22.70	22.70	22.70
		16QAM	1	0	1	22.50	22.50	22.30
			1	24	1	22.40	22.30	22.60
			1	49	1	22.30	22.30	22.20
			25	0	2	21.70	21.70	21.70
			25	12	2	21.70	21.70	21.70
			25	24	2	21.70	21.70	21.70
			50	0	2	21.70	21.70	21.70
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	23.70	23.70	23.70
			1	12	0	23.70	23.70	23.70
			1	24	0	23.70	23.70	23.70
			12	0	1	22.70	22.60	22.70
			12	6	1	22.70	22.60	22.70
			12	11	1	22.70	22.70	22.60
			25	0	1	22.60	22.70	22.70
		16QAM	1	0	1	22.10	22.10	22.70
			1	12	1	22.10	22.20	22.70
			1	24	1	22.10	22.20	22.70
			12	0	2	21.70	21.60	21.70
			12	6	2	21.60	21.60	21.70
			12	11	2	21.70	21.60	21.70
			25	0	2	21.70	21.70	21.70

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	23.70	23.70	23.70
			1	7	0	23.70	23.70	23.70
			1	14	0	23.70	23.70	23.70
			6	0	1	22.60	22.60	22.60
			6	3	1	22.70	22.60	22.60
			6	5	1	22.60	22.70	22.60
			15	0	1	22.60	22.70	22.60
		16QAM	1	0	1	22.30	22.20	22.30
			1	7	1	22.30	22.40	22.20
			1	14	1	22.30	22.30	22.10
			6	0	2	21.70	21.70	21.70
			6	3	2	21.70	21.70	21.70
			6	5	2	21.70	21.70	21.70
			15	0	2	21.70	21.70	21.70
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						26047	26365	26683
						1850.7 MHz	1882.5 MHz	1914.3 MHz
LTE Band 25	1.4	QPSK	1	0	0	23.70	23.70	23.70
			1	2	0	23.70	23.70	23.70
			1	5	0	23.70	23.70	23.70
			3	0	0	23.60	23.60	23.60
			3	1	0	23.70	23.60	23.70
			3	2	0	23.70	23.70	23.70
			6	0	1	22.60	22.50	22.60
		16QAM	1	0	1	22.20	22.10	22.10
			1	2	1	22.20	22.20	22.30
			1	5	1	22.20	22.30	22.10
			3	0	1	22.30	22.30	22.30
			3	1	1	22.50	22.40	22.40
			3	2	1	22.40	22.50	22.30
			6	0	2	21.70	21.70	21.70

LTE Band 26

Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						26765	26865	26965
						831.5 MHz	836.5 MHz	841.5 MHz
LTE Band 26	15	QPSK	1	0	0	23.60	23.60	23.60
			1	37	0	23.30	23.40	23.60
			1	74	0	23.40	23.40	23.50
			36	0	1	22.50	22.60	22.50
			36	20	1	22.50	22.50	22.50
			36	39	1	22.40	22.40	22.50
		16QAM	75	0	1	22.40	22.40	22.40
			1	0	1	22.10	22.10	22.10
			1	37	1	22.00	22.10	22.10
			1	74	1	21.90	22.00	22.00
			36	0	2	21.50	21.60	21.50
			36	20	2	21.50	21.60	21.50
			36	39	2	21.50	21.50	21.50
			75	0	2	21.40	21.40	21.40
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	23.60	23.60	23.60
			1	25	0	23.60	23.60	23.60
			1	49	0	23.60	23.50	23.50
			25	0	1	22.50	22.60	22.50
			25	12	1	22.50	22.60	22.60
			25	25	1	22.50	22.50	22.60
			50	0	1	22.50	22.40	22.50
		16QAM	1	0	1	22.30	22.30	21.90
			1	25	1	22.00	22.10	21.90
			1	49	1	22.20	22.10	21.90
			25	0	2	21.70	21.70	21.70
			25	12	2	21.70	21.70	21.70
			25	25	2	21.70	21.60	21.70
			50	0	2	21.60	21.60	21.70

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	23.60	23.60	23.50
			1	12	0	23.60	23.50	23.40
			1	24	0	23.60	23.50	23.40
			12	0	1	22.60	22.50	22.60
			12	7	1	22.60	22.60	22.60
			12	13	1	22.50	22.40	22.60
		25	0	1	22.60	22.60	22.60	
		16QAM	1	0	1	21.80	21.80	22.30
			1	12	1	21.80	21.80	22.30
			1	24	1	21.90	21.70	22.40
			12	0	2	21.60	21.60	21.70
			12	7	2	21.60	21.60	21.70
			12	13	2	21.60	21.50	21.70
			25	0	2	21.70	21.70	21.60
LTE Band 26	3		QPSK	1	0	0	23.50	23.50
		1		8	0	23.60	23.50	23.30
		1		14	0	23.50	23.40	23.60
		8		0	1	22.50	22.50	22.50
		8		4	1	22.50	22.50	22.50
		8		7	1	22.40	22.40	22.50
		15		0	1	22.50	22.50	22.50
		16QAM	1	0	1	22.10	22.10	21.90
			1	8	1	22.20	22.20	21.80
			1	14	1	22.10	22.00	21.90
			8	0	2	21.60	21.50	21.40
			8	4	2	21.60	21.50	21.50
			8	7	2	21.50	21.40	21.50
			15	0	2	21.50	21.50	21.40

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	23.60	23.60	23.60
			1	3	0	23.60	23.60	23.60
			1	5	0	23.60	23.60	23.60
			3	0	0	23.50	23.50	23.60
			3	1	0	23.50	23.50	23.60
			3	3	0	23.40	23.60	23.60
		6	0	1	22.40	22.40	22.30	
		16QAM	1	0	1	22.00	22.00	21.90
			1	3	1	22.20	22.20	22.10
			1	5	1	21.90	21.90	22.00
			3	0	1	22.10	22.10	22.10
			3	1	1	22.30	22.30	22.10
			3	3	1	22.20	22.20	22.20
			6	0	2	21.60	21.60	21.50

LTE Band 41

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	23.30	23.70	23.70
			1	49	0	23.40	23.60	23.60
			1	99	0	23.40	23.50	23.50
			50	0	1	22.20	22.50	22.50
			50	24	1	22.20	22.50	22.50
			50	50	1	22.20	22.50	22.50
		16QAM	100	0	1	22.20	22.50	22.50
			1	0	1	22.00	22.50	22.50
			1	49	1	22.00	22.50	22.40
			1	99	1	21.90	22.50	22.30
			50	0	2	21.20	21.50	21.60
			50	24	2	21.10	21.50	21.50
			50	50	2	21.20	21.50	21.60
			100	0	2	21.20	21.50	21.50
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	23.30	23.60	23.60
			1	37	0	23.10	23.30	23.30
			1	74	0	23.30	23.60	23.50
			36	0	1	22.20	22.50	22.50
			36	20	1	22.20	22.50	22.60
			36	39	1	22.20	22.50	22.60
			75	0	1	22.20	22.50	22.50
		16QAM	1	0	1	22.00	22.40	22.60
			1	37	1	22.10	22.20	22.50
			1	74	1	21.80	22.30	22.40
			36	0	2	21.20	21.50	21.50
			36	20	2	21.20	21.50	21.70
			36	39	2	21.10	21.50	21.50
			75	0	2	21.20	21.50	21.50

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	23.40	23.60	23.70
			1	25	0	23.60	23.50	23.70
			1	49	0	23.60	23.60	23.70
			25	0	1	22.30	22.50	22.40
			25	12	1	22.40	22.50	22.60
			25	25	1	22.40	22.50	22.50
		16QAM	50	0	1	22.30	22.40	22.50
			1	0	1	22.40	22.30	22.50
			1	25	1	22.20	22.20	22.50
			1	49	1	22.20	22.30	22.50
			25	0	2	21.30	21.50	21.50
			25	12	2	21.30	21.50	21.60
			25	25	2	21.30	21.50	21.50
			50	0	2	21.30	21.50	21.60
Band	BW (MHz)	Mode	RB Allocation	RB offset	Target MPR	Avg Pwr (dBm)		
						39675	40620	41565
						2498.5 MHz	2593 MHz	2687.5 MHz
LTE Band 41	5	QPSK	1	0	0	23.60	23.70	23.70
			1	12	0	23.50	23.50	23.50
			1	24	0	23.70	23.60	23.70
			12	0	1	22.30	22.50	22.40
			12	7	1	22.30	22.40	22.50
			12	13	1	22.30	22.40	22.50
		16QAM	25	0	1	22.60	22.40	22.40
			1	0	1	22.60	22.30	22.20
			1	12	1	22.50	22.30	22.20
			1	24	1	22.60	22.50	22.20
			12	0	2	21.30	21.50	21.50
			12	7	2	21.50	21.50	21.50
			12	13	2	21.50	21.50	21.50
			25	0	2	21.40	21.50	21.50

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.

27.50(c) - (10) Portable stations (hand-held devices) are limited to 3 watts ERP; (LTE B12)

27.50(d) - (4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.(Band 4)

27.50(h) - (2) Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power. (LTE B41 & 7)

90.635(b) - The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw). (LTE B26)

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; PSA setting reference to 971168 D01 v02r02

For peak power measurement with a PSA:

a) Set the RBW \geq OBW; b) Set VBW $\geq 3 \times$ RBW; c) Set span $\geq 2 \times$ RBW; d) Sweep time = auto couple; e) Detector = peak; f) Ensure that the number of measurement points \geq span/RBW; g) Trace mode = max hold;

For average power measurement with a PSA:

a) Set span to at least 1.5 times the OBW; b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz; c) Set VBW $\geq 3 \times$ RBW; d) Set number of points in sweep $\geq 2 \times$ span / RBW; e) Sweep time = auto-couple; f) Detector = RMS (power averaging); g) Use free run trigger If burst duty cycle ≥ 98 ; h) Use trigger to capture bursts If burst duty cycle < 98 ; i) Trace average at least 100 traces in power averaging (*i.e.*, RMS) mode. j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function.

MODES TESTED

GSM, CDMA, WCDMA, and LTE

TEST RESULTS

9.1.1. ERP/EIRP RESULTS

GSM

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
GSM1900	GPRS	512	1850.2	30.4	1096.48
		661	1880	30.6	1148.15
		810	1909.8	30.8	1202.26
	EGPRS	512	1850.2	28.4	691.83
		661	1880	28.9	776.25
		810	1909.8	28.7	741.31
GSM850	GPRS	128	824.2	30.126	1029.44
		190	836.6	30.244	1057.79
		251	848.8	29.605	913.06
	EGPRS	128	824.2	24.747	298.33
		190	836.6	24.629	290.34
		251	848.8	23.114	204.83

WCDMA

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
Band 2	REL99	9262	1852.4	24.3	269.15
		9400	1880	25.1	323.59
		9538	1907.6	24.7	295.12
	HSDPA	9262	1852.4	24.0	251.19
		9400	1880	24.7	295.12
		9538	1907.6	24.1	257.04
Band 5	REL99	4132	826.4	21.89	154.56
		4183	836.6	20.43	110.43
		4233	846.6	20.93	123.91
	HSDPA	4132	826.4	21.58	143.91
		4183	836.6	20.20	104.74
		4233	846.6	20.89	122.77

CDMA

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC1	1xRTT	25	1851.25	25.75	375.84
		600	1880	26.45	441.57
		1175	1908.75	26.75	473.15
	EVDO REL. 0	25	1851.25	25.55	358.92
		600	1880	26.25	421.70
		1175	1908.75	26.65	462.38

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC0	1xRTT	1013	824.7	21.96	157.07
		384	836.52	21.11	129.15
		777	848.31	21.11	129.15
	EVDO REL. 0	1013	824.7	21.69	147.57
		384	836.52	21.11	129.12
		777	848.31	20.95	124.45

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC10	1xRTT	476	817.9	21.55	142.92
		580	820.5	21.53	142.27
		684	823.1	21.54	142.59
	EVDO REL. 0	476	817.9	21.47	140.28
		580	820.5	21.58	143.88
		684	823.1	21.64	145.88

9.1.2. LTE ERP/EIRP RESULTS

LTE Band 2

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	20	QPSK	1/0	1860	25.07	321.37
			1/0	1880	25.10	323.59
			1/0	1900	25.40	346.74
		16QAM	1/0	1860	24.40	275.42
			1/0	1880	24.50	281.84
			1/0	1900	24.78	300.61
	15	QPSK	1/0	1857.5	24.80	302.00
			1/0	1880	24.90	309.03
			1/0	1902.5	25.30	338.84
		16QAM	1/0	1857.5	24.15	260.02
			1/0	1880	24.40	275.42
			1/0	1902.5	24.70	295.12
	10	QPSK	1/0	1855	24.72	296.48
			1/0	1880	25.30	338.84
			1/0	1905	25.10	323.59
		16QAM	1/0	1855	24.00	251.19
			1/0	1880	24.70	295.12
			1/0	1905	24.40	275.42
	5	QPSK	1/0	1852.5	24.60	288.40
			1/0	1880	25.50	354.81
			1/0	1907.5	25.10	323.59
		16QAM	1/0	1852.5	23.90	245.47
			1/0	1880	24.80	302.00
			1/0	1907.5	24.40	275.42

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE2	3	QPSK	1/0	1851.5	24.70	295.12
			1/0	1880	25.69	370.68
			1/0	1908.5	25.20	331.13
		16QAM	1/0	1851.5	24.15	260.02
			1/0	1880	25.08	322.11
			1/0	1908.5	24.50	281.84
	1.4	QPSK	1/0	1850.7	24.68	293.43
			1/0	1880	25.28	337.29
			1/0	1909.3	25.87	386.01
		16QAM	1/0	1850.7	23.70	234.42
			1/0	1880	24.50	281.84
			1/0	1909.3	25.10	323.59

LTE Band 4

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	20	QPSK	1/0	1720	22.12	162.81
			1/0	1732.5	21.47	140.32
			1/0	1745	21.83	152.24
		16QAM	1/0	1720	21.42	138.57
			1/0	1732.5	20.77	119.43
			1/0	1745	21.13	129.58
	15	QPSK	1/0	1717.5	22.23	166.95
			1/0	1732.5	20.67	116.71
			1/0	1747.5	21.02	126.36
		16QAM	1/0	1717.5	21.53	142.10
			1/0	1732.5	20.07	101.65
			1/0	1747.5	20.32	107.55
	10	QPSK	1/0	1715	22.14	163.50
			1/0	1732.5	20.57	114.05
			1/0	1750	21.11	129.03
		16QAM	1/0	1715	21.44	139.16
			1/0	1732.5	19.97	99.34
			1/0	1750	20.41	109.82
	5	QPSK	1/0	1712.5	22.24	167.66
			1/0	1732.5	20.77	119.43
			1/0	1752.5	21.10	128.76
		16QAM	1/0	1712.5	21.54	142.70
			1/0	1732.5	20.07	101.65
			1/0	1752.5	20.50	112.15

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	3	QPSK	1/0	1711.5	22.25	167.80
			1/0	1732.5	21.67	146.93
			1/0	1753.5	20.99	125.72
		16QAM	1/0	1711.5	21.55	142.82
			1/0	1732.5	21.07	127.97
			1/0	1753.5	20.29	107.01
	1.4	QPSK	1/0	1710.7	22.30	169.86
			1/0	1732.5	22.02	159.19
			1/0	1754.3	21.79	151.05
		16QAM	1/0	1710.7	21.45	139.66
			1/0	1732.5	21.07	127.97
			1/0	1754.3	20.99	125.64

LTE Band 5

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	10	QPSK	1/0	829	20.55	113.50
			1/0	836.5	20.24	105.68
			1/0	844	20.16	103.75
		16QAM	1/0	829	19.30	85.11
			1/0	836.5	20.01	100.23
			1/0	844	19.44	87.90
	5	QPSK	1/0	826.5	20.45	110.92
			1/0	836.5	20.21	104.95
			1/0	846.5	19.83	96.16
		16QAM	1/0	826.5	19.62	91.62
			1/0	836.5	19.13	81.85
			1/0	846.5	19.31	85.31
	3	QPSK	1/0	825.5	20.66	116.41
			1/0	836.5	20.20	104.71
			1/0	847.5	20.13	103.04
		16QAM	1/0	825.5	19.71	93.54
			1/0	836.5	19.44	87.90
			1/0	847.5	19.30	85.11
	1.4	QPSK	1/0	824.7	19.91	97.95
			1/0	836.5	21.30	134.90
			1/0	848.3	20.86	121.90
		16QAM	1/0	824.7	19.11	81.47
			1/0	836.5	19.72	93.76
			1/0	848.3	17.85	60.95

LTE Band 12

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE12	10	QPSK	1/0	704	16.12	40.93
			1/0	707.5	15.58	36.14
			1/0	711	16.68	46.56
		16QAM	1/0	704	15.50	35.48
			1/0	707.5	15.47	35.24
			1/0	711	15.34	34.20
	5	QPSK	1/0	701.5	15.87	38.64
			1/0	707.5	15.45	35.08
			1/0	713.5	16.13	41.02
		16QAM	1/0	701.5	14.98	31.48
			1/0	707.5	14.65	29.17
			1/0	713.5	15.06	32.06
	3	QPSK	1/0	700.5	15.32	34.04
			1/0	707.5	14.38	27.42
			1/0	714.5	15.60	36.31
		16QAM	1/0	700.5	14.85	30.55
			1/0	707.5	13.70	23.44
			1/0	714.5	14.87	30.69
	1.4	QPSK	1/0	699.7	14.76	29.92
			1/0	707.5	14.69	29.44
			1/0	715.3	15.28	33.73
		16QAM	1/0	699.7	13.70	23.44
			1/0	707.5	14.07	25.53
			1/0	715.3	14.73	29.72

LTE Band 25

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	20	QPSK	1/0	1860	25.07	321.37
			1/0	1882.5	25.10	323.59
			1/0	1905	25.40	346.74
		16QAM	1/0	1860	24.40	275.42
			1/0	1882.5	24.50	281.84
			1/0	1905	24.78	300.61
	15	QPSK	1/0	1857.5	24.80	302.00
			1/0	1882.5	24.90	309.03
			1/0	1907.5	25.30	338.84
		16QAM	1/0	1857.5	24.15	260.02
			1/0	1882.5	24.40	275.42
			1/0	1907.5	24.70	295.12
	10	QPSK	1/0	1855	24.72	296.48
			1/0	1882.5	25.30	338.84
			1/0	1910	25.10	323.59
		16QAM	1/0	1855	24.00	251.19
			1/0	1882.5	24.70	295.12
			1/0	1910	24.40	275.42
	5	QPSK	1/0	1852.5	24.60	288.40
			1/0	1882.5	25.50	354.81
			1/0	1912.5	25.10	323.59
		16QAM	1/0	1852.5	23.90	245.47
			1/0	1882.5	24.80	302.00
			1/0	1912.5	24.40	275.42

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	3	QPSK	1/0	1851.5	24.70	295.12
			1/0	1882.5	25.69	370.68
			1/0	1913.5	25.20	331.13
		16QAM	1/0	1851.5	24.15	260.02
			1/0	1882.5	25.08	322.11
			1/0	1913.5	24.50	281.84
	1.4	QPSK	1/0	1850.7	24.68	293.43
			1/0	1882.5	25.28	337.29
			1/0	1914.3	25.87	386.01
		16QAM	1/0	1850.7	23.70	234.42
			1/0	1882.5	24.50	281.84
			1/0	1914.3	25.10	323.59

LTE Band 26

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	15	QPSK	1/0	831.5	20.19	104.47
			1/0	836.5	19.69	93.11
			1/0	841.5	20.54	113.24
		16QAM	1/0	831.5	19.31	85.31
			1/0	836.5	18.97	78.89
			1/0	841.5	19.47	88.51
	10	QPSK	1/0	819	20.55	113.50
			1/0	831.5	20.24	105.68
			1/0	844	20.16	103.75
		16QAM	1/0	819	19.30	85.11
			1/0	831.5	20.01	100.23
			1/0	844	19.44	87.90
	5	QPSK	1/0	816.5	20.45	110.92
			1/0	831.5	20.21	104.95
			1/0	846.5	19.83	96.16
		16QAM	1/0	816.5	19.62	91.62
			1/0	831.5	19.13	81.85
			1/0	846.5	19.31	85.31
	3	QPSK	1/0	815.5	20.66	116.41
			1/0	831.5	20.20	104.71
			1/0	847.5	20.13	103.04
		16QAM	1/0	815.5	19.71	93.54
			1/0	831.5	19.44	87.90
			1/0	847.5	19.30	85.11
	1.4	QPSK	1/0	814.7	19.91	97.95
			1/0	831.5	21.30	134.90
			1/0	848.3	20.86	121.90
		16QAM	1/0	814.7	19.11	81.47
			1/0	831.5	19.72	93.76
			1/0	848.3	17.85	60.95

LTE Band 41

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE41	20	QPSK	1/0	2506	25.14	326.59
			1/0	2593	25.41	347.21
			1/0	2680	25.03	318.10
		16QAM	1/0	2506	24.98	314.76
			1/0	2593	25.11	324.03
			1/0	2680	24.73	296.87
	15	QPSK	1/0	2503.5	25.18	329.54
			1/0	2593	25.51	355.30
			1/0	2682.5	24.73	297.33
		16QAM	1/0	2503.5	24.58	287.02
			1/0	2593	24.91	309.45
			1/0	2682.5	24.33	271.17
	10	QPSK	1/0	2501	25.38	345.01
			1/0	2593	25.81	380.71
			1/0	2685	24.44	277.92
		16QAM	1/0	2501	25.16	327.97
			1/0	2593	24.81	302.41
			1/0	2685	24.04	253.47
	5	QPSK	1/0	2498.5	24.93	311.44
			1/0	2593	26.63	460.67
			1/0	2687.5	25.37	344.51
		16QAM	1/0	2498.5	24.07	255.49
			1/0	2593	25.51	355.30
			1/0	2687.5	24.65	291.47

9.1.3. ERP/EIRP PLOTS

GSM

Band	High Frequency Substitution Measurement UL Verification Services, Inc.								
		<p>Company: LG Project #: 15I20514 Date: 4/16/2015 Test Engineer: R.Z Configuration: EUT Only Location: Chamber G Mode: EGPRS 1900 MHz Fundamentals</p> <p>Test Equipment: Receiving: Horn T711, and Chamber G SMA Cables Substitution: Horn T59, 6ft SMA Cable</p>							
GSM 1900	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
EGPRS	Low Ch								
	1850.20	10.50	V	0.9	9.2	18.80	33.0	-14.2	
	1850.20	20.10	H	0.9	9.2	28.40	33.0	-4.6	
	Mid Ch								
	1880.00	10.80	V	0.9	9.2	19.10	33.0	-13.9	
	1880.00	20.60	H	0.9	9.2	28.90	33.0	-4.1	
High Ch									
	1909.80	10.80	V	0.9	9.1	19.00	33.0	-14.0	
	1909.80	20.50	H	0.9	9.1	28.70	33.0	-4.3	

Band GSM 1900 GPRS	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																					
	Company:		LG																																																																																																			
	Project #:		15I20514																																																																																																			
	Date:		4/16/2015																																																																																																			
	Test Engineer:		R.Z																																																																																																			
	Configuration:		EUT Only																																																																																																			
	Location:		Chamber G																																																																																																			
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WCDMA

Band Band 2 HSDPA	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I20514																																																																																															
	Date:		4/16/2015																																																																																															
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Band Band 2 REL99	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I20514 Date: 4/16/2015 Test Engineer: R.Z Configuration: EUT Only Location: Chamber G Mode: Rel99 Band 2 Fundamentals								
	Test Equipment: Receiving: Horn T711, and Chamber G SMA Cables Substitution: Horn T59, 6ft SMA Cable								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	1852.40	14.80	V	0.9	9.2	23.10	33.0	-9.9	
	1852.40	16.00	H	0.9	9.2	24.30	33.0	-8.7	
	Mid Ch								
	1880.00	15.50	V	0.9	9.2	23.80	33.0	-9.2	
	1880.00	16.80	H	0.9	9.2	25.10	33.0	-7.9	
High Ch									
1907.60	15.46	V	0.9	9.1	23.66	33.0	-9.3		
1907.60	16.50	H	0.9	9.1	24.70	33.0	-8.3		

Band Band 5 HSDPA	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
	Company:		LG						
	Project #:		15I20514						
	Date:		04/24/15						
	Test Engineer:		O. Stoelting						
	Configuration:		X-pos EUT						
	Mode:		WCDMA Band 5 HSDPA						
	Test Equipment:		Receiving: Sunol T185, and 3m Chamber C N-type Cable Substitution: Dipole T416, 6ft SMA Cable Warehouse						
	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	13.39	V	0.9	0.0	12.49	38.5	-26.0		
826.40	22.48	H	0.9	0.0	21.58	38.5	-16.9		
Mid Ch									
836.60	14.05	V	0.9	0.0	13.15	38.5	-25.3		
836.60	21.10	H	0.9	0.0	20.20	38.5	-18.2		
High Ch									
846.60	14.03	V	0.9	0.0	13.13	38.5	-25.3		
846.60	21.79	H	0.9	0.0	20.89	38.5	-17.6		
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 C										
Company: LG Project #: 15I20514 Date: 04/24/15 Test Engineer: O. Stoelting Configuration: X-pos EUT Mode: REL99 B5 FUND										
Test Equipment: Receiving: Sunol T185, and 3m Chamber C N-type Cable Substitution: Dipole T416, 6ft SMA Cable Warehouse										
Band Band 5 REL99	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	13.22	V	0.9	0.0	12.32	38.5	-26.1		
	826.40	22.79	H	0.9	0.0	21.89	38.5	-16.6		
Mid Ch										
	836.60	13.54	V	0.9	0.0	12.64	38.5	-25.8		
	836.60	21.33	H	0.9	0.0	20.43	38.5	-18.0		
High Ch										
	846.60	13.22	V	0.9	0.0	12.32	38.5	-26.1		
	846.60	21.83	H	0.9	0.0	20.93	38.5	-17.5		
Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm										

CDMA

Band BC1	High Frequency Substitution Measurement UL Verification Services Chamber G								
	Company: LG Project #: 15I20514 Date: 4/16/2015 Test Engineer: R.Z Configuration: EUT Only Mode: CDMA EVDO BC1								
	Test Equipment: Receiving: Horn T711, and Chamber G SMA Cables Substitution: Horn T59 Substitution, 6ft SMA Cable								
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	1.8513	11.2	V	0.85	9.20	19.55	33.0	-13.5	
	1.8513	17.2	H	0.85	9.20	25.55	33.0	-7.5	
	Mid Ch								
	1.8800	11.8	V	0.85	9.20	20.15	33.0	-12.9	
	1.8800	17.9	H	0.85	9.20	26.25	33.0	-6.8	
High Ch									
1.9088	12.6	V	0.85	9.10	20.81	33.0	-12.2		
1.9088	18.4	H	0.85	9.10	26.65	33.0	-6.4		
Rev. 3.17.11									

Band BC1 1xRTT	High Frequency Substitution Measurement UL Verification Services Chamber G								
	Company: LG Project #: 15I20514 Date: 4/16/2015 Test Engineer: R.Z Configuration: EUT Only Mode: CDMA RTT BC1								
	Test Equipment: Receiving: Horn T711, and Chamber G SMA Cables Substitution: Horn T59 Substitution, 6ft SMA Cable								
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	1.8513	9.4	V	0.85	9.20	17.75	33.0	-15.3	
	1.8513	17.4	H	0.85	9.20	25.75	33.0	-7.3	
	Mid Ch								
	1.8800	9.7	V	0.85	9.20	18.05	33.0	-15.0	
	1.8800	18.1	H	0.85	9.20	26.45	33.0	-6.6	
High Ch									
1.9088	10.5	V	0.85	9.10	18.75	33.0	-14.3		
1.9088	18.5	H	0.85	9.10	26.75	33.0	-6.3		
Rev. 3.17.11									

Band BC0	High Frequency Substitution Measurement UL Verification Services Chamber G																																																																																																					
	Company: LG																																																																																																					
	Project #: 15I20514																																																																																																					
	Date: 4/28/2015																																																																																																					
	Test Engineer: A. Escamilla																																																																																																					
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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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848.31	21.85	H	0.9	0.0	20.95	38.5	-17.5																																																																																															

Band BC10	High Frequency Substitution Measurement																																																																																																					
	UL Verification Services Chamber G																																																																																																					
	Company:		LG																																																																																																			
	Project #:		15I20514																																																																																																			
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LTE Band 2

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LTE Band 4

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LTE Band 5

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LTE Band 25

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Band LTE25 1.4MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																					
	Company:		LG																																																																																																			
	Project #:		15I20514																																																																																																			
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Band LTE25 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.									
	Company: LG Project #: 15I20514 Date: 4/16/2015 Test Engineer: R.Z Configuration: EUT Only Location: Chamber G Mode: LTE_QPSK Band 25 Fundamentals, 1.4MHz Bandwidth									
	Test Equipment: Receiving: Horn T711, and Chamber G SMA Cables Substitution: Horn T59, 6ft SMA Cable									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Ch									
	1850.70	15.96	V	0.9	9.2	24.30	33.0	-8.7	-22.6	
	1850.70	16.34	H	0.9	9.2	24.68	33.0	-8.3	-21.9	
	Mid Ch									
	1882.50	16.48	V	0.9	9.2	24.73	33.0	-8.3	-22.9	
	1882.50	17.03	H	0.9	9.2	25.28	33.0	-7.7	-22.2	
High Ch										
1914.30	17.40	V	0.9	9.1	25.57	33.0	-7.4	-22.6		
1914.30	17.70	H	0.9	9.1	25.87	33.0	-7.1	-21.8		

LTE Band 26

Band LTE26 15MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG Electronics																																																																																															
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LTE Band 41

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Band LTE41 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																					
	Company:		LG Electronics																																																																																																			
	Project #:		15I20514																																																																																																			
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Band LTE41 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																					
	Company:		LG Electronics																																																																																																			
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9.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53 and §90.691

LIMIT

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.

Part 27: (m)(4) (4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

MODES TESTED

GSM, CDMA, WCDMA, and LTE

RESULTS

9.2.1. SPURIOUS RADIATION PLOTS

GSM

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG
 Project #: 15I20514
 Date: 4/24/2015
 Test Engineer: D. Mun
 Configuration: x-pos EUT/AC Charger/ HS
 Mode: EGPRS1900

Chamber

Pre-amplifier

Filter

Limit

5m Chamber B

T34 8449B

Filter1

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, 1850.2MHz									
GSM 1900	3.700	-11.3	V	3.0	35.4	1.0	-45.7	-13.0	-32.7	
	5.551	-9.1	V	3.0	34.7	1.0	-42.8	-13.0	-29.8	
	7.401	-10.5	V	3.0	34.9	1.0	-44.5	-13.0	-31.5	
EGPRS	3.700	-9.5	H	3.0	35.4	1.0	-43.9	-13.0	-30.9	
	5.551	-6.1	H	3.0	34.7	1.0	-39.8	-13.0	-26.8	
	7.401	-9.0	H	3.0	34.9	1.0	-42.9	-13.0	-29.9	
	Mid Ch, 1880.0MHz									
	3.760	-10.7	V	3.0	35.3	1.0	-45.0	-13.0	-32.0	
	5.640	-8.6	V	3.0	34.7	1.0	-42.3	-13.0	-29.3	
	7.520	-11.1	V	3.0	34.9	1.0	-45.1	-13.0	-32.1	
	3.760	-12.4	H	3.0	35.3	1.0	-46.7	-13.0	-33.7	
	5.640	-8.9	H	3.0	34.7	1.0	-42.6	-13.0	-29.6	
	7.520	-8.5	H	3.0	34.9	1.0	-42.4	-13.0	-29.4	
	High Ch, 1909.8MHz									
	3.820	-21.7	V	3.0	35.3	1.0	-56.0	-13.0	-43.0	
	5.729	-13.3	V	3.0	34.7	1.0	-47.0	-13.0	-34.0	
	7.639	-4.3	V	3.0	35.0	1.0	-38.2	-13.0	-25.2	
	3.820	-7.6	H	3.0	35.3	1.0	-41.9	-13.0	-28.9	
	5.729	-10.3	H	3.0	34.7	1.0	-44.0	-13.0	-31.0	
	7.639	-10.7	H	3.0	35.0	1.0	-44.6	-13.0	-31.6	

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

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG									
Project #:		15I20514									
Date:		4/24/2015									
Test Engineer:		D. Mun									
Configuration:		x-pos EUT/AC Charger/ HS									
Mode:		GPRS1900									
		Chamber		Pre-amplifier		Filter		Limit			
		5m Chamber B		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	
GSM 1900	Low Ch, 1850.2MHz										
	3.700	-19.3	V	3.0	35.4	1.0	-53.7	-13.0	-40.7		
	5.551	-17.8	V	3.0	34.7	1.0	-51.6	-13.0	-38.6		
	GPRS	7.401	-16.3	V	3.0	34.9	1.0	-50.2	-13.0	-37.2	
		3.700	-21.6	H	3.0	35.4	1.0	-56.0	-13.0	-43.0	
		5.551	-16.3	H	3.0	34.7	1.0	-50.0	-13.0	-37.0	
	7.401	-16.3	H	3.0	34.9	1.0	-50.2	-13.0	-37.2		
Mid Ch, 1880.0MHz											
	3.760	-17.2	V	3.0	35.3	1.0	-51.5	-13.0	-38.5		
	5.640	-19.2	V	3.0	34.7	1.0	-52.9	-13.0	-39.9		
	7.520	-17.7	V	3.0	34.9	1.0	-51.7	-13.0	-38.7		
	3.760	-19.1	H	3.0	35.3	1.0	-53.4	-13.0	-40.4		
	5.640	-17.0	H	3.0	34.7	1.0	-50.7	-13.0	-37.7		
	7.520	-15.5	H	3.0	34.9	1.0	-49.4	-13.0	-36.4		
High Ch, 1909.8MHz											
	3.820	-20.1	V	3.0	35.3	1.0	-54.4	-13.0	-41.4		
	5.729	-18.2	V	3.0	34.7	1.0	-51.9	-13.0	-38.9		
	7.639	-17.0	V	3.0	35.0	1.0	-50.9	-13.0	-37.9		
	3.820	-21.4	H	3.0	35.3	1.0	-55.7	-13.0	-42.7		
	5.729	-17.6	H	3.0	34.7	1.0	-51.3	-13.0	-38.3		
	7.639	-15.4	H	3.0	35.0	1.0	-49.4	-13.0	-36.4		
Rev. 03.03.09											

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20514							
Date:		4/24/2015							
Test Engineer:		D. Mun							
Configuration:		X-pos EUT w/ AC Adapter + Headset							
Location:		Chamber C							
Mode:		EGPRS 850 MHz Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.2									
1648.40	-30.0	V	3.0	37.0	1.0	-66.0	-13.0	-53.0	
2472.60	-26.4	V	3.0	36.4	1.0	-61.8	-13.0	-48.8	
3296.80	-25.5	V	3.0	36.2	1.0	-60.7	-13.0	-47.7	
850									
1648.40	-31.3	H	3.0	37.0	1.0	-67.4	-13.0	-54.4	
2472.60	-28.9	H	3.0	36.4	1.0	-64.3	-13.0	-51.3	
3296.80	-25.8	H	3.0	36.2	1.0	-61.0	-13.0	-48.0	
EGPRS									
Mid Ch, 836.6									
1673.20	-30.8	V	3.0	37.0	1.0	-66.8	-13.0	-53.8	
2509.80	-26.2	V	3.0	36.4	1.0	-61.6	-13.0	-48.6	
3346.40	-26.9	V	3.0	36.1	1.0	-62.0	-13.0	-49.0	
1673.20	-30.1	H	3.0	37.0	1.0	-66.1	-13.0	-53.1	
2509.80	-27.2	H	3.0	36.4	1.0	-62.6	-13.0	-49.6	
3346.40	-25.3	H	3.0	36.1	1.0	-60.4	-13.0	-47.4	
High Ch, 848.8									
1697.60	-30.6	V	3.0	37.0	1.0	-66.6	-13.0	-53.6	
2546.40	-26.3	V	3.0	36.4	1.0	-61.7	-13.0	-48.7	
3395.20	-25.2	V	3.0	36.1	1.0	-60.3	-13.0	-47.3	
1697.60	-30.9	H	3.0	37.0	1.0	-66.9	-13.0	-53.9	
2546.40	-28.3	H	3.0	36.4	1.0	-63.7	-13.0	-50.7	
3395.20	-26.3	H	3.0	36.1	1.0	-61.4	-13.0	-48.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20514							
Date:		4/24/2015							
Test Engineer:		D. Mun							
Configuration:		X-pos EUT w/ AC Adapter + Headset							
Location:		Chamber C							
Mode:		GPRS 850 MHz Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
GSM850									
Low Ch, 824.2									
1648.40	-30.4	V	3.0	37.0	1.0	-66.4	-13.0	-53.4	
2472.60	-26.6	V	3.0	36.4	1.0	-62.1	-13.0	-49.1	
3296.80	-25.3	V	3.0	36.2	1.0	-60.4	-13.0	-47.4	
GPRS									
Mid Ch, 836.6									
1673.20	-25.8	V	3.0	37.0	1.0	-61.8	-13.0	-48.8	
2509.80	-22.2	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
3346.40	-24.6	V	3.0	36.1	1.0	-59.7	-13.0	-46.7	
1673.20	-30.1	H	3.0	37.0	1.0	-66.1	-13.0	-53.1	
2509.80	-27.8	H	3.0	36.4	1.0	-63.3	-13.0	-50.3	
3346.40	-24.4	H	3.0	36.1	1.0	-59.5	-13.0	-46.5	
High Ch, 848.8									
1697.60	-24.2	V	3.0	37.0	1.0	-60.2	-13.0	-47.2	
2546.40	-21.8	V	3.0	36.4	1.0	-57.2	-13.0	-44.2	
3395.20	-19.9	V	3.0	36.1	1.0	-55.0	-13.0	-42.0	
1697.60	-26.1	H	3.0	37.0	1.0	-62.1	-13.0	-49.1	
2546.40	-24.4	H	3.0	36.4	1.0	-59.8	-13.0	-46.8	
3395.20	-21.5	H	3.0	36.1	1.0	-56.5	-13.0	-43.5	

WCDMA

UL Verification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20514							
Date:		4/24/2015							
Test Engineer:		David Mun							
Configuration:		Y-pos EUT w/ AC Adapter + Headset							
Mode:		HSDPA_B2							
Chamber		Pre-amplifier		Filter		Limit			
5m Chamber B		T34 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
Band									
Low Ch, 1852.4MHz									
3.705	-22.7	V	3.0	35.4	1.0	-57.1	-13.0	-44.1	
Band 2									
5.557	-19.4	V	3.0	34.7	1.0	-53.1	-13.0	-40.1	
7.410	-17.2	V	3.0	34.9	1.0	-51.1	-13.0	-38.1	
HSDPA									
3.705	-21.2	H	3.0	35.4	1.0	-55.6	-13.0	-42.6	
5.557	-19.1	H	3.0	34.7	1.0	-52.9	-13.0	-39.9	
7.410	-16.0	H	3.0	34.9	1.0	-49.9	-13.0	-36.9	
Mid Ch, 1880MHz									
3.760	-21.7	V	3.0	35.3	1.0	-56.0	-13.0	-43.0	
5.640	-19.0	V	3.0	34.7	1.0	-52.7	-13.0	-39.7	
7.520	-17.7	V	3.0	34.9	1.0	-51.6	-13.0	-38.6	
3.760	-21.4	H	3.0	35.3	1.0	-55.8	-13.0	-42.8	
5.640	-17.8	H	3.0	34.7	1.0	-51.5	-13.0	-38.5	
7.520	-16.5	H	3.0	34.9	1.0	-50.4	-13.0	-37.4	
High Ch, 1907.6MHz									
3.815	-22.5	V	3.0	35.3	1.0	-56.8	-13.0	-43.8	
5.723	-19.0	V	3.0	34.7	1.0	-52.7	-13.0	-39.7	
7.630	-16.7	V	3.0	34.9	1.0	-50.7	-13.0	-37.7	
3.815	-22.4	H	3.0	35.3	1.0	-56.7	-13.0	-43.7	
5.723	-18.2	H	3.0	34.7	1.0	-52.0	-13.0	-39.0	
7.630	-16.3	H	3.0	34.9	1.0	-50.2	-13.0	-37.2	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG Electronics
Project #: 15I20514
Date: 4/24/2015
Test Engineer: D. Mun
Configuration: Y-pos EUT w/ AC Adapter + Headset
Mode: Rel99_B2

Chamber	Pre-amplifier	Filter	Limit
5m Chamber B	T34 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, 1852.4MHz									
3.705	-18.7	V	3.0	35.4	1.0	-53.1	-13.0	-40.1	
5.557	-16.0	V	3.0	34.7	1.0	-49.7	-13.0	-36.7	
7.410	-15.9	V	3.0	34.9	1.0	-49.8	-13.0	-36.8	
3.705	-16.4	H	3.0	35.4	1.0	-50.8	-13.0	-37.8	
5.557	-13.8	H	3.0	34.7	1.0	-47.5	-13.0	-34.5	
7.410	-14.3	H	3.0	34.9	1.0	-48.2	-13.0	-35.2	
Mid Ch, 1880MHz									
3.760	-17.2	V	3.0	35.3	1.0	-51.5	-13.0	-38.5	
5.640	-17.6	V	3.0	34.7	1.0	-51.3	-13.0	-38.3	
7.520	-16.5	V	3.0	34.9	1.0	-50.5	-13.0	-37.5	
3.760	-20.9	H	3.0	35.3	1.0	-55.2	-13.0	-42.2	
5.640	-16.9	H	3.0	34.7	1.0	-50.7	-13.0	-37.7	
7.520	-14.7	H	3.0	34.9	1.0	-48.6	-13.0	-35.6	
High Ch, 1907.6MHz									
3.815	-17.7	V	3.0	35.3	1.0	-52.0	-13.0	-39.0	
5.723	-15.9	V	3.0	34.7	1.0	-49.6	-13.0	-36.6	
7.630	-15.8	V	3.0	34.9	1.0	-49.7	-13.0	-36.7	
3.815	-18.3	H	3.0	35.3	1.0	-52.5	-13.0	-39.5	
5.723	-15.7	H	3.0	34.7	1.0	-49.4	-13.0	-36.4	
7.630	-14.8	H	3.0	34.9	1.0	-48.8	-13.0	-35.8	

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

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG
Project #: 15I20514
Date: 04/24/15
Test Engineer: D. Mun
Configuration: X-pos EUT, Ac Charger, Headset
Mode: HSDPA_B5

Chamber
Pre-amplifier
Filter
Limit

3m Chamber
T34 8449B
Filter 1
Part 22

	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band 5	Low Ch, 826.4MHz										
	1.653	-24.4	V	3.0	37.4	1.0	-60.7	-13.0	-47.7		
	2.479	-23.1	V	3.0	36.4	1.0	-58.5	-13.0	-45.5		
HSDPA	3.306	-22.8	V	3.0	35.8	1.0	-57.6	-13.0	-44.6		
	1.653	-25.3	H	3.0	37.4	1.0	-61.6	-13.0	-48.6		
	2.479	-23.9	H	3.0	36.4	1.0	-59.3	-13.0	-46.3		
	3.306	-22.2	H	3.0	35.8	1.0	-57.0	-13.0	-44.0		
	Mid Ch, 836.6MHz										
	1.673	-24.6	V	3.0	37.3	1.0	-60.9	-13.0	-47.9		
2.510	-23.1	V	3.0	36.4	1.0	-58.4	-13.0	-45.4			
3.346	-21.8	V	3.0	35.8	1.0	-56.5	-13.0	-43.5			
1.673	-25.5	H	3.0	37.3	1.0	-61.8	-13.0	-48.8			
2.510	-23.5	H	3.0	36.4	1.0	-58.8	-13.0	-45.8			
3.346	-22.2	H	3.0	35.8	1.0	-56.9	-13.0	-43.9			
High Ch, 846.6MHz											
1.693	-23.9	V	3.0	37.3	1.0	-60.2	-13.0	-47.2			
2.540	-21.1	V	3.0	36.3	1.0	-56.5	-13.0	-43.5			
3.386	-21.2	V	3.0	35.7	1.0	-55.9	-13.0	-42.9			
1.693	-24.3	H	3.0	37.3	1.0	-60.7	-13.0	-47.7			
2.540	-24.1	H	3.0	36.3	1.0	-59.4	-13.0	-46.4			
3.386	-22.6	H	3.0	35.7	1.0	-57.3	-13.0	-44.3			

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

UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG
Project #: 15I20514
Date: 04/24/15
Test Engineer: D. Mun
Configuration: X-pos EUT, Ac Charger, Headset
Mode: REL99_B5

Chamber	Pre-amplifier	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 22

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.4MHz									
1.653	-25.8	V	3.0	37.4	1.0	-62.2	-13.0	-49.2	
2.479	-22.0	V	3.0	36.4	1.0	-57.4	-13.0	-44.4	
3.306	-21.4	V	3.0	35.8	1.0	-56.2	-13.0	-43.2	
Mid Ch, 836.6MHz									
1.653	-24.7	H	3.0	37.4	1.0	-61.1	-13.0	-48.1	
2.479	-23.4	H	3.0	36.4	1.0	-58.8	-13.0	-45.8	
3.306	-22.3	H	3.0	35.8	1.0	-57.1	-13.0	-44.1	
High Ch, 846.6MHz									
1.673	-28.7	V	3.0	37.3	1.0	-65.1	-13.0	-52.1	
2.510	-24.9	V	3.0	36.4	1.0	-60.3	-13.0	-47.3	
3.346	-23.6	V	3.0	35.8	1.0	-58.3	-13.0	-45.3	
1.673	-25.4	H	3.0	37.3	1.0	-61.7	-13.0	-48.7	
2.510	-24.2	H	3.0	36.4	1.0	-59.5	-13.0	-46.5	
3.346	-21.5	H	3.0	35.8	1.0	-56.2	-13.0	-43.2	
1.693	-23.2	V	3.0	37.3	1.0	-59.5	-13.0	-46.5	
2.540	-21.6	V	3.0	36.3	1.0	-56.9	-13.0	-43.9	
3.386	-20.7	V	3.0	35.7	1.0	-55.4	-13.0	-42.4	
1.693	-26.5	H	3.0	37.3	1.0	-62.8	-13.0	-49.8	
2.540	-24.3	H	3.0	36.3	1.0	-59.6	-13.0	-46.6	
3.386	-22.1	H	3.0	35.7	1.0	-56.8	-13.0	-43.8	

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

CDMA

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20514							
Date:		4/27/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		CDMA EVDO BC1 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.25									
3702.50	-16.9	V	3.0	35.9	1.0	-51.8	-13.0	-38.8	
5553.75	-15.0	V	3.0	35.5	1.0	-49.5	-13.0	-36.5	
7405.00	-13.8	V	3.0	35.7	1.0	-48.6	-13.0	-35.6	
3702.50	-19.8	H	3.0	35.9	1.0	-54.7	-13.0	-41.7	
5553.75	-14.7	H	3.0	35.5	1.0	-49.2	-13.0	-36.2	
7405.00	-11.9	H	3.0	35.7	1.0	-46.7	-13.0	-33.7	
Mid Ch, 1880									
3760.00	-19.2	V	3.0	35.8	1.0	-54.0	-13.0	-41.0	
5640.00	-13.0	V	3.0	35.5	1.0	-47.5	-13.0	-34.5	
7520.00	-14.2	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
3760.00	-18.8	H	3.0	35.8	1.0	-53.6	-13.0	-40.6	
5640.00	-14.9	H	3.0	35.5	1.0	-49.4	-13.0	-36.4	
7520.00	-12.9	H	3.0	35.7	1.0	-47.6	-13.0	-34.6	
High Ch, 1908.75									
3817.50	-15.8	V	3.0	35.8	1.0	-50.5	-13.0	-37.5	
5726.25	-12.4	V	3.0	35.5	1.0	-46.9	-13.0	-33.9	
7635.00	-12.7	V	3.0	35.8	1.0	-47.5	-13.0	-34.5	
3817.50	-17.5	H	3.0	35.8	1.0	-52.3	-13.0	-39.3	
5726.25	-14.8	H	3.0	35.5	1.0	-49.3	-13.0	-36.3	
7635.00	-12.6	H	3.0	35.8	1.0	-47.4	-13.0	-34.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20514								
Date:		4/24/2015								
Test Engineer:		D. Mun								
Configuration:		EUT , AC Adapter, Headset								
Location:		Chamber C								
Mode:		CDMA 1xRTT BC1 Harmonics								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch, 1851.25										
Band	3702.50	-17.4	V	3.0	35.9	1.0	-52.2	-13.0	-39.2	
	5553.75	-16.7	V	3.0	35.5	1.0	-51.2	-13.0	-38.2	
	7405.00	-14.1	V	3.0	35.7	1.0	-48.9	-13.0	-35.9	
BC1	3702.50	-17.2	H	3.0	35.9	1.0	-52.1	-13.0	-39.1	
	5553.75	-15.7	H	3.0	35.5	1.0	-50.2	-13.0	-37.2	
	7405.00	-13.4	H	3.0	35.7	1.0	-48.2	-13.0	-35.2	
1xRTT	Mid Ch, 1880									
	3760.00	-15.1	V	3.0	35.8	1.0	-49.9	-13.0	-36.9	
	5640.00	-13.1	V	3.0	35.5	1.0	-47.6	-13.0	-34.6	
	7520.00	-12.6	V	3.0	35.7	1.0	-47.4	-13.0	-34.4	
	3760.00	-17.0	H	3.0	35.8	1.0	-51.8	-13.0	-38.8	
	5640.00	-14.7	H	3.0	35.5	1.0	-49.2	-13.0	-36.2	
7520.00	-12.0	H	3.0	35.7	1.0	-46.8	-13.0	-33.8		
High Ch, 1908.75										
	3817.50	-17.2	V	3.0	35.8	1.0	-51.9	-13.0	-38.9	
	5726.25	-16.0	V	3.0	35.5	1.0	-50.5	-13.0	-37.5	
	7635.00	-11.3	V	3.0	35.8	1.0	-46.1	-13.0	-33.1	
	3817.50	-16.7	H	3.0	35.8	1.0	-51.4	-13.0	-38.4	
	5726.25	-14.6	H	3.0	35.5	1.0	-49.1	-13.0	-36.1	
	7635.00	-13.3	H	3.0	35.8	1.0	-48.0	-13.0	-35.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20514							
Date:		4/27/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		CDMA EVDO BC0 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7									
1649.40	-28.0	V	3.0	37.4	1.0	-64.4	-13.0	-51.4	
2474.10	-24.8	V	3.0	36.4	1.0	-60.2	-13.0	-47.2	
3298.80	-21.6	V	3.0	35.8	1.0	-56.4	-13.0	-43.4	
1649.40	-28.8	H	3.0	37.4	1.0	-65.2	-13.0	-52.2	
2474.10	-23.3	H	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3298.80	-21.2	H	3.0	35.8	1.0	-56.0	-13.0	-43.0	
Mid Ch, 836.52									
1673.04	-26.0	V	3.0	37.3	1.0	-62.3	-13.0	-49.3	
2509.56	-25.9	V	3.0	36.4	1.0	-61.3	-13.0	-48.3	
3346.08	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3	
1673.04	-28.0	H	3.0	37.3	1.0	-64.3	-13.0	-51.3	
2509.56	-23.4	H	3.0	36.4	1.0	-58.8	-13.0	-45.8	
3346.08	-21.9	H	3.0	35.8	1.0	-56.7	-13.0	-43.7	
High Ch, 848.31									
1696.62	-27.9	V	3.0	37.3	1.0	-64.2	-13.0	-51.2	
2544.93	-25.7	V	3.0	36.3	1.0	-61.0	-13.0	-48.0	
3393.24	-21.8	V	3.0	35.7	1.0	-56.5	-13.0	-43.5	
1696.62	-26.9	H	3.0	37.3	1.0	-63.2	-13.0	-50.2	
2544.93	-23.8	H	3.0	36.3	1.0	-59.1	-13.0	-46.1	
3393.24	-21.4	H	3.0	35.7	1.0	-56.1	-13.0	-43.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20514							
Date:		4/24/2015							
Test Engineer:		D. Mun							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber C							
Mode:		CDMA 1xRTT BC0 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7									
1649.40	-24.0	V	3.0	37.4	1.0	-60.4	-13.0	-47.4	
2474.10	-23.0	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
3298.80	-20.3	V	3.0	35.8	1.0	-55.1	-13.0	-42.1	
BC0									
1649.40	-24.3	H	3.0	37.4	1.0	-60.7	-13.0	-47.7	
2474.10	-22.3	H	3.0	36.4	1.0	-57.7	-13.0	-44.7	
3298.80	-19.6	H	3.0	35.8	1.0	-54.4	-13.0	-41.4	
1xRTT									
Mid Ch, 836.52									
1673.04	-22.8	V	3.0	37.3	1.0	-59.1	-13.0	-46.1	
2509.56	-21.5	V	3.0	36.4	1.0	-56.9	-13.0	-43.9	
3346.08	-20.0	V	3.0	35.8	1.0	-54.8	-13.0	-41.8	
1673.04	-24.5	H	3.0	37.3	1.0	-60.8	-13.0	-47.8	
2509.56	-21.7	H	3.0	36.4	1.0	-57.1	-13.0	-44.1	
3346.08	-20.2	H	3.0	35.8	1.0	-55.0	-13.0	-42.0	
High Ch, 848.31									
1696.62	-23.2	V	3.0	37.3	1.0	-59.5	-13.0	-46.5	
2544.93	-21.4	V	3.0	36.3	1.0	-56.7	-13.0	-43.7	
3393.24	-18.6	V	3.0	35.7	1.0	-53.3	-13.0	-40.3	
1696.62	-23.8	H	3.0	37.3	1.0	-60.1	-13.0	-47.1	
2544.93	-20.3	H	3.0	36.3	1.0	-55.6	-13.0	-42.6	
3393.24	-19.6	H	3.0	35.7	1.0	-54.3	-13.0	-41.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20514							
Date:		4/27/2015							
Test Engineer:		A. Escamilla							
Configuration:		EUT, AC Adapter, Headset							
Location:		Chamber C							
Mode:		CDMA EVDO BC10 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 817.9MHz									
1.636	-26.4	V	3.0	37.4	1.0	-62.8	-13.0	-49.8	
2.454	-22.4	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
3.272	-21.1	V	3.0	35.8	1.0	-55.9	-13.0	-42.9	
Mid Ch, 820.5MHz									
1.636	-28.8	H	3.0	37.4	1.0	-65.2	-13.0	-52.2	
2.454	-23.4	H	3.0	36.4	1.0	-58.8	-13.0	-45.8	
3.272	-21.6	H	3.0	35.8	1.0	-56.4	-13.0	-43.4	
High Ch, 823.1MHz									
1.641	-24.8	V	3.0	37.3	1.0	-61.1	-13.0	-48.1	
2.462	-25.4	V	3.0	36.4	1.0	-60.8	-13.0	-47.8	
3.282	-21.5	V	3.0	35.8	1.0	-56.3	-13.0	-43.3	
1.641	-28.6	H	3.0	37.3	1.0	-64.9	-13.0	-51.9	
2.462	-23.9	H	3.0	36.4	1.0	-59.3	-13.0	-46.3	
3.282	-21.5	H	3.0	35.8	1.0	-56.3	-13.0	-43.3	
High Ch, 823.1MHz									
1.646	-24.6	V	3.0	37.3	1.0	-60.9	-13.0	-47.9	
2.469	-25.4	V	3.0	36.3	1.0	-60.7	-13.0	-47.7	
3.292	-21.1	V	3.0	35.7	1.0	-55.8	-13.0	-42.8	
1.646	-28.3	H	3.0	37.3	1.0	-64.6	-13.0	-51.6	
2.469	-23.4	H	3.0	36.3	1.0	-58.7	-13.0	-45.7	
3.292	-21.2	H	3.0	35.7	1.0	-55.9	-13.0	-42.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20514							
Date:		4/24/2015							
Test Engineer:		D. Mun							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber C							
Mode:		CDMA 1xRTT BC10 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 817.9MHz									
1.636	-23.6	V	3.0	37.4	1.0	-60.0	-13.0	-47.0	
2.454	-22.5	V	3.0	36.4	1.0	-57.9	-13.0	-44.9	
3.272	-23.8	V	3.0	35.8	1.0	-58.6	-13.0	-45.6	
BC10									
1.636	-25.7	H	3.0	37.4	1.0	-62.1	-13.0	-49.1	
2.454	-23.1	H	3.0	36.4	1.0	-58.5	-13.0	-45.5	
3.272	-24.8	H	3.0	35.8	1.0	-59.6	-13.0	-46.6	
1xRTT									
Mid Ch, 820.5MHz									
1.641	-23.7	V	3.0	37.3	1.0	-60.0	-13.0	-47.0	
2.462	-23.9	V	3.0	36.4	1.0	-59.3	-13.0	-46.3	
3.282	-23.4	V	3.0	35.8	1.0	-58.2	-13.0	-45.2	
1.641	-25.8	H	3.0	37.3	1.0	-62.1	-13.0	-49.1	
2.462	-24.1	H	3.0	36.4	1.0	-59.5	-13.0	-46.5	
3.282	-24.9	H	3.0	35.8	1.0	-59.7	-13.0	-46.7	
High Ch, 823.1MHz									
1.646	-23.6	V	3.0	37.3	1.0	-59.9	-13.0	-46.9	
2.469	-22.8	V	3.0	36.3	1.0	-58.1	-13.0	-45.1	
3.292	-20.7	V	3.0	35.7	1.0	-55.4	-13.0	-42.4	
1.646	-24.8	H	3.0	37.3	1.0	-61.1	-13.0	-48.1	
2.469	-21.8	H	3.0	36.3	1.0	-57.1	-13.0	-44.1	
3.292	-22.0	H	3.0	35.7	1.0	-56.7	-13.0	-43.7	

LTE Band 2

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20514							
Date:		4/23/2015							
Test Engineer:		Angel Escamilla							
Configuration:		X-pos EUT, Ac Charger, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 2 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
Band	3720.00	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3
	5580.00	-15.3	V	3.0	35.5	1.0	-49.8	-13.0	-36.8
LTE2	7440.00	-11.1	V	3.0	35.7	1.0	-45.8	-13.0	-32.8
	3720.00	-21.1	H	3.0	35.8	1.0	-56.0	-13.0	-43.0
20MHz	5580.00	-11.7	H	3.0	35.5	1.0	-46.2	-13.0	-33.2
	7440.00	-11.7	H	3.0	35.7	1.0	-46.4	-13.0	-33.4
Mid Ch, 1880									
16QAM	3760.00	-19.6	V	3.0	35.8	1.0	-54.4	-13.0	-41.4
	5640.00	-16.7	V	3.0	35.5	1.0	-51.1	-13.0	-38.1
	7520.00	-10.9	V	3.0	35.7	1.0	-45.7	-13.0	-32.7
	3760.00	-20.6	H	3.0	35.8	1.0	-55.4	-13.0	-42.4
	5640.00	-16.9	H	3.0	35.5	1.0	-51.4	-13.0	-38.4
	7520.00	-9.9	H	3.0	35.7	1.0	-44.7	-13.0	-31.7
High Ch, 1900									
	3800.00	-18.8	V	3.0	35.8	1.0	-53.6	-13.0	-40.6
	5700.00	-15.5	V	3.0	35.5	1.0	-50.0	-13.0	-37.0
	7600.00	-11.9	V	3.0	35.8	1.0	-46.7	-13.0	-33.7
	3800.00	-20.4	H	3.0	35.8	1.0	-55.2	-13.0	-42.2
	5700.00	-14.9	H	3.0	35.5	1.0	-49.4	-13.0	-36.4
	7600.00	-12.6	H	3.0	35.8	1.0	-47.4	-13.0	-34.4

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/23/2015								
Test Engineer:		Angel Escamilla								
Configuration:		X-pos EUT, Ac Charger, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 2 Harmonics, 20MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1860									
	3720.00	-20.3	V	3.0	35.8	1.0	-55.2	-13.0	-42.2	
	5580.00	-15.6	V	3.0	35.5	1.0	-50.1	-13.0	-37.1	
LTE2	7440.00	-10.8	V	3.0	35.7	1.0	-45.5	-13.0	-32.5	
	3720.00	-21.3	H	3.0	35.8	1.0	-56.2	-13.0	-43.2	
	5580.00	-12.9	H	3.0	35.5	1.0	-47.4	-13.0	-34.4	
20MHz	7440.00	-11.5	H	3.0	35.7	1.0	-46.3	-13.0	-33.3	
	Mid Ch, 1880									
	3760.00	-18.0	V	3.0	35.8	1.0	-52.8	-13.0	-39.8	
QPSK	5640.00	-15.1	V	3.0	35.5	1.0	-49.6	-13.0	-36.6	
	7520.00	-11.3	V	3.0	35.7	1.0	-46.0	-13.0	-33.0	
	3760.00	-18.7	H	3.0	35.8	1.0	-53.5	-13.0	-40.5	
	5640.00	-16.6	H	3.0	35.5	1.0	-51.1	-13.0	-38.1	
	7520.00	-10.4	H	3.0	35.7	1.0	-45.2	-13.0	-32.2	
	High Ch, 1900									
	3800.00	-19.7	V	3.0	35.8	1.0	-54.5	-13.0	-41.5	
	5700.00	-15.1	V	3.0	35.5	1.0	-49.6	-13.0	-36.6	
	7600.00	-11.3	V	3.0	35.8	1.0	-46.1	-13.0	-33.1	
	3800.00	-20.8	H	3.0	35.8	1.0	-55.6	-13.0	-42.6	
	5700.00	-15.3	H	3.0	35.5	1.0	-49.8	-13.0	-36.8	
	7600.00	-12.2	H	3.0	35.8	1.0	-47.0	-13.0	-34.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20514							
Date:		4/23/2015							
Test Engineer:		Angel Escamilla							
Configuration:		X-pos EUT, Ac Charger, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 2 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1857.5									
Band	3715.00	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1
	5572.50	-16.8	V	3.0	35.5	1.0	-51.3	-13.0	-38.3
LTE2	7430.00	-13.5	V	3.0	35.7	1.0	-48.2	-13.0	-35.2
	3715.00	-21.6	H	3.0	35.8	1.0	-56.4	-13.0	-43.4
	5572.50	-15.5	H	3.0	35.5	1.0	-49.9	-13.0	-36.9
15MHz	7430.00	-12.4	H	3.0	35.7	1.0	-47.1	-13.0	-34.1
Mid Ch, 1880									
16QAM	3760.00	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3
	5640.00	-14.2	V	3.0	35.5	1.0	-48.7	-13.0	-35.7
	7520.00	-13.5	V	3.0	35.7	1.0	-48.2	-13.0	-35.2
	3760.00	-20.7	H	3.0	35.8	1.0	-55.5	-13.0	-42.5
	5640.00	-16.5	H	3.0	35.5	1.0	-50.9	-13.0	-37.9
	7520.00	-10.1	H	3.0	35.7	1.0	-44.8	-13.0	-31.8
High Ch, 1902.5									
	3805.00	-21.1	V	3.0	35.8	1.0	-55.8	-13.0	-42.8
	5707.50	-12.6	V	3.0	35.5	1.0	-47.1	-13.0	-34.1
	7610.00	-11.8	V	3.0	35.8	1.0	-46.6	-13.0	-33.6
	3805.00	-21.4	H	3.0	35.8	1.0	-56.2	-13.0	-43.2
	5707.50	-14.8	H	3.0	35.5	1.0	-49.3	-13.0	-36.3
	7610.00	-13.0	H	3.0	35.8	1.0	-47.7	-13.0	-34.7

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/23/2015								
Test Engineer:		Angel Escamilla								
Configuration:		X-pos EUT, Ac Charger, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 2 Harmonics, 15MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1857.5									
	3715.00	-20.8	V	3.0	35.8	1.0	-55.6	-13.0	-42.6	
	5572.50	-16.3	V	3.0	35.5	1.0	-50.8	-13.0	-37.8	
LTE2	7430.00	-13.0	V	3.0	35.7	1.0	-47.8	-13.0	-34.8	
	3715.00	-21.3	H	3.0	35.8	1.0	-56.2	-13.0	-43.2	
	5572.50	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
15MHz	7430.00	-12.4	H	3.0	35.7	1.0	-47.1	-13.0	-34.1	
QPSK	Mid Ch, 1880									
	3760.00	-20.3	V	3.0	35.8	1.0	-55.1	-13.0	-42.1	
	5640.00	-15.8	V	3.0	35.5	1.0	-50.3	-13.0	-37.3	
	7520.00	-12.4	V	3.0	35.7	1.0	-47.2	-13.0	-34.2	
	3760.00	-20.5	H	3.0	35.8	1.0	-55.3	-13.0	-42.3	
	5640.00	-16.1	H	3.0	35.5	1.0	-50.6	-13.0	-37.6	
	7520.00	-11.0	H	3.0	35.7	1.0	-45.7	-13.0	-32.7	
	High Ch, 1902.5									
	3805.00	-19.7	V	3.0	35.8	1.0	-54.4	-13.0	-41.4	
	5707.50	-12.5	V	3.0	35.5	1.0	-47.0	-13.0	-34.0	
	7610.00	-12.0	V	3.0	35.8	1.0	-46.7	-13.0	-33.7	
	3805.00	-21.5	H	3.0	35.8	1.0	-56.3	-13.0	-43.3	
	5707.50	-14.0	H	3.0	35.5	1.0	-48.5	-13.0	-35.5	
	7610.00	-12.6	H	3.0	35.8	1.0	-47.3	-13.0	-34.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20514							
Date:		4/23/2015							
Test Engineer:		Angel Escamilla							
Configuration:		X-pos EUT, Ac Charger, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 2 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1855									
Band	3710.00	-21.4	V	3.0	35.9	1.0	-56.2	-13.0	-43.2
	5565.00	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9
LTE2	7420.00	-13.7	V	3.0	35.7	1.0	-48.4	-13.0	-35.4
	3710.00	-20.1	H	3.0	35.9	1.0	-55.0	-13.0	-42.0
	5565.00	-14.0	H	3.0	35.5	1.0	-48.5	-13.0	-35.5
10MHz	7420.00	-13.4	H	3.0	35.7	1.0	-48.1	-13.0	-35.1
Mid Ch, 1880									
16QAM	3760.00	-21.4	V	3.0	35.8	1.0	-56.3	-13.0	-43.3
	5640.00	-16.7	V	3.0	35.5	1.0	-51.2	-13.0	-38.2
	7520.00	-10.9	V	3.0	35.7	1.0	-45.7	-13.0	-32.7
	3760.00	-21.2	H	3.0	35.8	1.0	-56.1	-13.0	-43.1
	5640.00	-16.5	H	3.0	35.5	1.0	-51.0	-13.0	-38.0
	7520.00	-13.2	H	3.0	35.7	1.0	-48.0	-13.0	-35.0
High Ch, 1905									
	3810.00	-20.8	V	3.0	35.8	1.0	-55.6	-13.0	-42.6
	5715.00	-15.7	V	3.0	35.5	1.0	-50.2	-13.0	-37.2
	7620.00	-10.6	V	3.0	35.8	1.0	-45.4	-13.0	-32.4
	3810.00	-20.8	H	3.0	35.8	1.0	-55.6	-13.0	-42.6
	5715.00	-16.6	H	3.0	35.5	1.0	-51.1	-13.0	-38.1
	7620.00	-12.2	H	3.0	35.8	1.0	-46.9	-13.0	-33.9

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG									
Project #:		15I20514									
Date:		4/23/2015									
Test Engineer:		Angel Escamilla									
Configuration:		X-pos EUT, Ac Charger, Headset									
Location:		Chamber C									
Mode:		LTE_QPSK Band 2 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band	Low Ch, 1855										
	3710.00	-21.1	V	3.0	35.9	1.0	-56.0	-13.0	-43.0		
	5565.00	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8		
	LTE2	7420.00	-13.6	V	3.0	35.7	1.0	-48.3	-13.0	-35.3	
		3710.00	-19.5	H	3.0	35.9	1.0	-54.3	-13.0	-41.3	
	10MHz	5565.00	-12.7	H	3.0	35.5	1.0	-47.2	-13.0	-34.2	
7420.00		-12.3	H	3.0	35.7	1.0	-47.1	-13.0	-34.1		
QPSK	Mid Ch, 1880										
	3760.00	-21.3	V	3.0	35.8	1.0	-56.2	-13.0	-43.2		
	5640.00	-17.0	V	3.0	35.5	1.0	-51.5	-13.0	-38.5		
	7520.00	-10.6	V	3.0	35.7	1.0	-45.3	-13.0	-32.3		
	3760.00	-20.4	H	3.0	35.8	1.0	-55.2	-13.0	-42.2		
	5640.00	-16.6	H	3.0	35.5	1.0	-51.1	-13.0	-38.1		
	High Ch, 1905										
	3810.00	-20.4	V	3.0	35.8	1.0	-55.2	-13.0	-42.2		
	5715.00	-16.4	V	3.0	35.5	1.0	-50.9	-13.0	-37.9		
	7620.00	-11.3	V	3.0	35.8	1.0	-46.1	-13.0	-33.1		
	3810.00	-21.0	H	3.0	35.8	1.0	-55.8	-13.0	-42.8		
	5715.00	-15.7	H	3.0	35.5	1.0	-50.2	-13.0	-37.2		
	7620.00	-12.8	H	3.0	35.8	1.0	-47.6	-13.0	-34.6		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG									
Project #:		15I20514									
Date:		4/23/2015									
Test Engineer:		Angel Escamilla									
Configuration:		X-pos EUT, Ac Charger, Headset									
Location:		Chamber C									
Mode:		LTE_16QAM Band 2 Harmonics, 5MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band	Low Ch, 1852.5										
	3705.00	-21.1	V	3.0	35.9	1.0	-55.9	-13.0	-42.9		
	5557.50	-16.9	V	3.0	35.5	1.0	-51.4	-13.0	-38.4		
	LTE2	7410.00	-13.6	V	3.0	35.7	1.0	-48.3	-13.0	-35.3	
		3705.00	-18.4	H	3.0	35.9	1.0	-53.2	-13.0	-40.2	
	5MHz	5557.50	-15.6	H	3.0	35.5	1.0	-50.1	-13.0	-37.1	
7410.00		-13.2	H	3.0	35.7	1.0	-48.0	-13.0	-35.0		
16QAM	Mid Ch, 1880										
	3760.00	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1		
	5640.00	-17.2	V	3.0	35.5	1.0	-51.7	-13.0	-38.7		
	7520.00	-11.5	V	3.0	35.7	1.0	-46.3	-13.0	-33.3		
	3760.00	-21.7	H	3.0	35.8	1.0	-56.5	-13.0	-43.5		
	5640.00	-17.0	H	3.0	35.5	1.0	-51.5	-13.0	-38.5		
	High Ch, 1907.5										
	3815.00	-18.3	V	3.0	35.8	1.0	-53.0	-13.0	-40.0		
	5722.50	-15.6	V	3.0	35.5	1.0	-50.1	-13.0	-37.1		
	7630.00	-10.1	V	3.0	35.8	1.0	-44.9	-13.0	-31.9		
	3815.00	-21.2	H	3.0	35.8	1.0	-55.9	-13.0	-42.9		
	5722.50	-14.4	H	3.0	35.5	1.0	-48.9	-13.0	-35.9		
	7630.00	-13.0	H	3.0	35.8	1.0	-47.7	-13.0	-34.7		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/23/2015								
Test Engineer:		Angel Escamilla								
Configuration:		X-pos EUT, Ac Charger, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 2 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1852.5									
	3705.00	-20.7	V	3.0	35.9	1.0	-55.5	-13.0	-42.5	
	5557.50	-16.8	V	3.0	35.5	1.0	-51.3	-13.0	-38.3	
LTE2	7410.00	-13.9	V	3.0	35.7	1.0	-48.6	-13.0	-35.6	
	3705.00	-18.5	H	3.0	35.9	1.0	-53.3	-13.0	-40.3	
	5557.50	-14.6	H	3.0	35.5	1.0	-49.0	-13.0	-36.0	
5MHz	7410.00	-12.6	H	3.0	35.7	1.0	-47.3	-13.0	-34.3	
	Mid Ch, 1880									
	3760.00	-20.4	V	3.0	35.8	1.0	-55.2	-13.0	-42.2	
QPSK	5640.00	-16.8	V	3.0	35.5	1.0	-51.3	-13.0	-38.3	
	7520.00	-12.5	V	3.0	35.7	1.0	-47.2	-13.0	-34.2	
	3760.00	-20.6	H	3.0	35.8	1.0	-55.5	-13.0	-42.5	
	5640.00	-17.1	H	3.0	35.5	1.0	-51.6	-13.0	-38.6	
	7520.00	-13.0	H	3.0	35.7	1.0	-47.7	-13.0	-34.7	
	High Ch, 1907.5									
	3815.00	-18.6	V	3.0	35.8	1.0	-53.4	-13.0	-40.4	
	5722.50	-14.0	V	3.0	35.5	1.0	-48.5	-13.0	-35.5	
	7630.00	-14.8	V	3.0	35.8	1.0	-49.6	-13.0	-36.6	
	3815.00	-20.3	H	3.0	35.8	1.0	-55.1	-13.0	-42.1	
	5722.50	-14.7	H	3.0	35.5	1.0	-49.2	-13.0	-36.2	
	7630.00	-11.0	H	3.0	35.8	1.0	-45.8	-13.0	-32.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/23/2015								
Test Engineer:		Angel Escamilla								
Configuration:		X-pos EUT, Ac Charger, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 2 Harmonics, 3MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1851.5									
	3703.00	-19.7	V	3.0	35.9	1.0	-54.5	-13.0	-41.5	
LTE2	5554.50	-15.9	V	3.0	35.5	1.0	-50.3	-13.0	-37.3	
	7406.00	-13.6	V	3.0	35.7	1.0	-48.3	-13.0	-35.3	
3MHz	3703.00	-14.9	H	3.0	35.9	1.0	-49.7	-13.0	-36.7	
	5554.50	-16.6	H	3.0	35.5	1.0	-51.1	-13.0	-38.1	
16QAM	7406.00	-12.9	H	3.0	35.7	1.0	-47.6	-13.0	-34.6	
	Mid Ch, 1880									
	3760.00	-20.7	V	3.0	35.8	1.0	-55.5	-13.0	-42.5	
	5640.00	-17.1	V	3.0	35.5	1.0	-51.6	-13.0	-38.6	
	7520.00	-13.5	V	3.0	35.7	1.0	-48.3	-13.0	-35.3	
	3760.00	-21.7	H	3.0	35.8	1.0	-56.6	-13.0	-43.6	
	5640.00	-17.1	H	3.0	35.5	1.0	-51.6	-13.0	-38.6	
	7520.00	-12.7	H	3.0	35.7	1.0	-47.5	-13.0	-34.5	
	High Ch, 1908.5									
	3817.00	-19.7	V	3.0	35.8	1.0	-54.5	-13.0	-41.5	
5725.50	-16.4	V	3.0	35.5	1.0	-50.9	-13.0	-37.9		
7634.00	-11.4	V	3.0	35.8	1.0	-46.2	-13.0	-33.2		
3817.00	-20.3	H	3.0	35.8	1.0	-55.0	-13.0	-42.0		
5725.50	-16.1	H	3.0	35.5	1.0	-50.6	-13.0	-37.6		
7634.00	-11.6	H	3.0	35.8	1.0	-46.4	-13.0	-33.4		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/23/2015								
Test Engineer:		Angel Escamilla								
Configuration:		X-pos EUT, Ac Charger, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 2 Harmonics, 3MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1851.5									
	3703.00	-18.8	V	3.0	35.9	1.0	-53.7	-13.0	-40.7	
	5554.50	-16.4	V	3.0	35.5	1.0	-50.8	-13.0	-37.8	
LTE2	7406.00	-12.8	V	3.0	35.7	1.0	-47.6	-13.0	-34.6	
	3703.00	-16.1	H	3.0	35.9	1.0	-50.9	-13.0	-37.9	
3MHz	5554.50	-17.0	H	3.0	35.5	1.0	-51.5	-13.0	-38.5	
	7406.00	-13.4	H	3.0	35.7	1.0	-48.1	-13.0	-35.1	
QPSK	Mid Ch, 1880									
	3760.00	-20.3	V	3.0	35.8	1.0	-55.1	-13.0	-42.1	
	5640.00	-17.2	V	3.0	35.5	1.0	-51.7	-13.0	-38.7	
	7520.00	-13.1	V	3.0	35.7	1.0	-47.8	-13.0	-34.8	
	3760.00	-21.1	H	3.0	35.8	1.0	-55.9	-13.0	-42.9	
	5640.00	-16.7	H	3.0	35.5	1.0	-51.2	-13.0	-38.2	
	High Ch, 1908.5									
	7520.00	-12.5	H	3.0	35.7	1.0	-47.3	-13.0	-34.3	
	3817.00	-18.3	V	3.0	35.8	1.0	-53.1	-13.0	-40.1	
	5725.50	-15.0	V	3.0	35.5	1.0	-49.5	-13.0	-36.5	
	7634.00	-11.3	V	3.0	35.8	1.0	-46.0	-13.0	-33.0	
	3817.00	-20.7	H	3.0	35.8	1.0	-55.5	-13.0	-42.5	
	5725.50	-14.9	H	3.0	35.5	1.0	-49.4	-13.0	-36.4	
	7634.00	-12.8	H	3.0	35.8	1.0	-47.5	-13.0	-34.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company: LG Project #: 15I20514 Date: 4/23/2015 Test Engineer: Angel Escamilla Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber C Mode: LTE_16QAM Band 2 Harmonics, 1.4MHz Bandwidth											
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
1.4MHz 16QAM	Low Ch, 1850.7										
	LTE2	3701.40	-21.1	V	3.0	35.9	1.0	-55.9	-13.0	-42.9	
		5552.10	-15.4	V	3.0	35.5	1.0	-49.8	-13.0	-36.8	
		7402.80	-14.2	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
		3701.40	-17.9	H	3.0	35.9	1.0	-52.8	-13.0	-39.8	
		5552.10	-14.5	H	3.0	35.5	1.0	-49.0	-13.0	-36.0	
		7402.80	-11.2	H	3.0	35.7	1.0	-45.9	-13.0	-32.9	
	Mid Ch, 1880										
		3760.00	-21.5	V	3.0	35.8	1.0	-44.7	-13.0	-31.7	
		5640.00	-16.1	V	3.0	35.5	1.0	-50.6	-13.0	-37.6	
		7520.00	-12.7	V	3.0	35.7	1.0	-47.4	-13.0	-34.4	
		3760.00	-21.5	H	3.0	35.8	1.0	-56.3	-13.0	-43.3	
		5640.00	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
		7520.00	-10.6	H	3.0	35.7	1.0	-45.4	-13.0	-32.4	
	High Ch, 1909.3										
		3818.60	-16.6	V	3.0	35.8	1.0	-51.4	-13.0	-38.4	
		5727.90	-12.2	V	3.0	35.5	1.0	-46.7	-13.0	-33.7	
		7637.20	-12.0	V	3.0	35.8	1.0	-46.8	-13.0	-33.8	
	3818.60	-20.2	H	3.0	35.8	1.0	-55.0	-13.0	-42.0		
	5727.90	-16.4	H	3.0	35.5	1.0	-50.9	-13.0	-37.9		
	7637.20	-11.0	H	3.0	35.8	1.0	-45.8	-13.0	-32.8		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20514							
Date:		4/23/2015							
Test Engineer:		Angel Escamilla							
Configuration:		X-pos EUT, Ac Charger, Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 2 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.7									
Band	3701.40	-20.8	V	3.0	35.9	1.0	-55.7	-13.0	-42.7
	5552.10	-17.1	V	3.0	35.5	1.0	-51.6	-13.0	-38.6
LTE2	7402.80	-14.0	V	3.0	35.7	1.0	-48.7	-13.0	-35.7
	3701.40	-17.4	H	3.0	35.9	1.0	-52.2	-13.0	-39.2
	5552.10	-15.1	H	3.0	35.5	1.0	-49.5	-13.0	-36.5
1.4MHz	7402.80	-11.0	H	3.0	35.7	1.0	-45.7	-13.0	-32.7
Mid Ch, 1880									
QPSK	3760.00	-19.8	V	3.0	35.8	1.0	-54.6	-13.0	-41.6
	5640.00	-17.3	V	3.0	35.5	1.0	-51.8	-13.0	-38.8
	7520.00	-14.3	V	3.0	35.7	1.0	-49.0	-13.0	-36.0
	3760.00	-19.9	H	3.0	35.8	1.0	-54.7	-13.0	-41.7
	5640.00	-13.3	H	3.0	35.5	1.0	-47.8	-13.0	-34.8
	7520.00	-12.1	H	3.0	35.7	1.0	-46.9	-13.0	-33.9
High Ch, 1909.3									
	3818.60	-16.2	V	3.0	35.8	1.0	-50.9	-13.0	-37.9
	5727.90	-12.5	V	3.0	35.5	1.0	-47.0	-13.0	-34.0
	7637.20	-12.6	V	3.0	35.8	1.0	-47.3	-13.0	-34.3
	3818.60	-19.9	H	3.0	35.8	1.0	-54.6	-13.0	-41.6
	5727.90	-16.8	H	3.0	35.5	1.0	-51.3	-13.0	-38.3
	7637.20	-12.3	H	3.0	35.8	1.0	-47.1	-13.0	-34.1

LTE Band 4

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20514							
Date:		4/23/2015							
Test Engineer:		Angel Escamilla							
Configuration:		X-pos EUT, Ac Charger, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 4 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1720									
LTE4	3440.00	-18.4	V	3.0	36.0	1.0	-53.5	-13.0	-40.5
	5160.00	-17.6	V	3.0	35.4	1.0	-52.0	-13.0	-39.0
	6880.00	-12.7	V	3.0	35.7	1.0	-47.4	-13.0	-34.4
20MHz	3440.00	-13.0	H	3.0	36.0	1.0	-48.1	-13.0	-35.1
	5160.00	-17.8	H	3.0	35.4	1.0	-52.2	-13.0	-39.2
	6880.00	-14.3	H	3.0	35.7	1.0	-49.0	-13.0	-36.0
Mid Ch, 1732.5									
16QAM	3465.00	-11.1	V	3.0	36.0	1.0	-46.2	-13.0	-33.2
	5197.50	-18.5	V	3.0	35.4	1.0	-52.9	-13.0	-39.9
	6930.00	-14.0	V	3.0	35.7	1.0	-48.7	-13.0	-35.7
	3465.00	-20.8	H	3.0	36.0	1.0	-55.8	-13.0	-42.8
	5197.50	-17.2	H	3.0	35.4	1.0	-51.6	-13.0	-38.6
	6930.00	-13.6	H	3.0	35.7	1.0	-48.3	-13.0	-35.3
High Ch, 1745									
	3490.00	-10.1	V	3.0	36.0	1.0	-45.1	-13.0	-32.1
	5235.00	-15.8	V	3.0	35.4	1.0	-50.2	-13.0	-37.2
	6980.00	-13.2	V	3.0	35.7	1.0	-47.9	-13.0	-34.9
	3490.00	-13.7	H	3.0	36.0	1.0	-48.7	-13.0	-35.7
	5235.00	-16.4	H	3.0	35.4	1.0	-50.9	-13.0	-37.9
	6980.00	-12.5	H	3.0	35.7	1.0	-47.1	-13.0	-34.1

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/23/2015								
Test Engineer:		Angel Escamilla								
Configuration:		X-pos EUT, Ac Charger, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 4 Harmonics, 20MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1720									
	3440.00	-20.4	V	3.0	36.0	1.0	-55.5	-13.0	-42.5	
LTE4	5160.00	-18.6	V	3.0	35.4	1.0	-53.0	-13.0	-40.0	
	6880.00	-14.8	V	3.0	35.7	1.0	-49.5	-13.0	-36.5	
20MHz	3440.00	-13.4	H	3.0	36.0	1.0	-48.5	-13.0	-35.5	
	5160.00	-17.6	H	3.0	35.4	1.0	-52.0	-13.0	-39.0	
QPSK	6880.00	-13.0	H	3.0	35.7	1.0	-47.6	-13.0	-34.6	
	Mid Ch, 1732.5									
	3465.00	-10.1	V	3.0	36.0	1.0	-45.1	-13.0	-32.1	
	5197.50	-18.3	V	3.0	35.4	1.0	-52.7	-13.0	-39.7	
	6930.00	-13.7	V	3.0	35.7	1.0	-48.4	-13.0	-35.4	
	3465.00	-20.9	H	3.0	36.0	1.0	-55.9	-13.0	-42.9	
	5197.50	-16.5	H	3.0	35.4	1.0	-51.0	-13.0	-38.0	
	6930.00	-13.0	H	3.0	35.7	1.0	-47.7	-13.0	-34.7	
	High Ch, 1745									
	3490.00	-9.2	V	3.0	36.0	1.0	-44.3	-13.0	-31.3	
	5235.00	-14.6	V	3.0	35.4	1.0	-49.0	-13.0	-36.0	
	6980.00	-12.5	V	3.0	35.7	1.0	-47.2	-13.0	-34.2	
	3490.00	-11.7	H	3.0	36.0	1.0	-46.7	-13.0	-33.7	
	5235.00	-16.7	H	3.0	35.4	1.0	-51.1	-13.0	-38.1	
	6980.00	-11.3	H	3.0	35.7	1.0	-46.0	-13.0	-33.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/23/2015								
Test Engineer:		Angel Escamilla								
Configuration:		X-pos EUT, Ac Charger, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 4 Harmonics, 15MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1717.5									
LTE4	3435.00	-9.6	V	3.0	36.1	1.0	-44.7	-13.0	-31.7	
	5152.50	-16.5	V	3.0	35.4	1.0	-50.9	-13.0	-37.9	
	6870.00	-13.1	V	3.0	35.7	1.0	-47.8	-13.0	-34.8	
15MHz	3435.00	-11.3	H	3.0	36.1	1.0	-46.3	-13.0	-33.3	
	5152.50	-16.5	H	3.0	35.4	1.0	-50.9	-13.0	-37.9	
	6870.00	-13.8	H	3.0	35.7	1.0	-48.4	-13.0	-35.4	
16QAM	Mid Ch, 1732.5									
	3465.00	-19.6	V	3.0	36.0	1.0	-54.6	-13.0	-41.6	
	5197.50	-19.1	V	3.0	35.4	1.0	-53.5	-13.0	-40.5	
	6930.00	-13.7	V	3.0	35.7	1.0	-48.3	-13.0	-35.3	
	3465.00	-21.8	H	3.0	36.0	1.0	-56.8	-13.0	-43.8	
	5197.50	-17.9	H	3.0	35.4	1.0	-52.4	-13.0	-39.4	
	6930.00	-12.7	H	3.0	35.7	1.0	-47.4	-13.0	-34.4	
	High Ch, 1747.5									
	3495.00	-9.8	V	3.0	36.0	1.0	-44.8	-13.0	-31.8	
	5242.50	-15.8	V	3.0	35.4	1.0	-50.3	-13.0	-37.3	
	6990.00	-11.3	V	3.0	35.7	1.0	-46.0	-13.0	-33.0	
	3495.00	-11.3	H	3.0	36.0	1.0	-46.3	-13.0	-33.3	
	5242.50	-17.7	H	3.0	35.4	1.0	-52.1	-13.0	-39.1	
	6990.00	-12.1	H	3.0	35.7	1.0	-46.8	-13.0	-33.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company: LG Project #: 15I20514 Date: 4/23/2015 Test Engineer: Angel Escamilla Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber C Mode: LTE_QPSK Band 4 Harmonics, 15MHz Bandwidth										
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1717.5									
LTE4	3435.00	-8.7	V	3.0	36.1	1.0	-43.7	-13.0	-30.7	
	5152.50	-17.7	V	3.0	35.4	1.0	-52.1	-13.0	-39.1	
	6870.00	-14.7	V	3.0	35.7	1.0	-49.4	-13.0	-36.4	
15MHz	3435.00	-12.0	H	3.0	36.1	1.0	-47.0	-13.0	-34.0	
	5152.50	-17.9	H	3.0	35.4	1.0	-52.4	-13.0	-39.4	
	6870.00	-13.6	H	3.0	35.7	1.0	-48.2	-13.0	-35.2	
QPSK	Mid Ch, 1732.5									
	3465.00	-19.3	V	3.0	36.0	1.0	-54.3	-13.0	-41.3	
	5197.50	-18.1	V	3.0	35.4	1.0	-52.6	-13.0	-39.6	
	6930.00	-13.8	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
	3465.00	-20.7	H	3.0	36.0	1.0	-55.7	-13.0	-42.7	
	5197.50	-17.4	H	3.0	35.4	1.0	-51.8	-13.0	-38.8	
	6930.00	-13.5	H	3.0	35.7	1.0	-48.2	-13.0	-35.2	
High Ch, 1747.5										
	3495.00	-10.9	V	3.0	36.0	1.0	-45.9	-13.0	-32.9	
	5242.50	-16.8	V	3.0	35.4	1.0	-51.2	-13.0	-38.2	
	6990.00	-13.3	V	3.0	35.7	1.0	-48.0	-13.0	-35.0	
	3495.00	-12.2	H	3.0	36.0	1.0	-47.2	-13.0	-34.2	
	5242.50	-15.7	H	3.0	35.4	1.0	-50.2	-13.0	-37.2	
	6990.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company: LG Project #: 15I20514 Date: 4/22/2015 Test Engineer: Angel Escamilla Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber C Mode: LTE_16QAM Band 4 Harmonics, 10MHz Bandwidth										
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1715									
LTE4	3430.00	-8.4	V	3.0	36.1	1.0	-43.5	-13.0	-30.5	
	5145.00	-15.7	V	3.0	35.4	1.0	-50.1	-13.0	-37.1	
	6860.00	-14.8	V	3.0	35.7	1.0	-49.4	-13.0	-36.4	
10MHz	3430.00	-11.9	H	3.0	36.1	1.0	-46.9	-13.0	-33.9	
	5145.00	-15.6	H	3.0	35.4	1.0	-50.0	-13.0	-37.0	
	6860.00	-12.2	H	3.0	35.7	1.0	-46.8	-13.0	-33.8	
16QAM	Mid Ch, 1732.5									
	3465.00	-14.1	V	3.0	36.0	1.0	-49.2	-13.0	-36.2	
	5197.50	-15.8	V	3.0	35.4	1.0	-50.2	-13.0	-37.2	
	6930.00	-12.4	V	3.0	35.7	1.0	-47.1	-13.0	-34.1	
	3465.00	-10.2	H	3.0	36.0	1.0	-45.2	-13.0	-32.2	
	5197.50	-16.9	H	3.0	35.4	1.0	-51.4	-13.0	-38.4	
	High Ch, 1750									
	3500.00	-7.6	V	3.0	36.0	1.0	-42.6	-13.0	-29.6	
	5250.00	-16.7	V	3.0	35.4	1.0	-51.2	-13.0	-38.2	
	7000.00	-13.0	V	3.0	35.7	1.0	-47.7	-13.0	-34.7	
	3500.00	-11.0	H	3.0	36.0	1.0	-46.0	-13.0	-33.0	
	5250.00	-14.0	H	3.0	35.4	1.0	-48.4	-13.0	-35.4	
	7000.00	-11.2	H	3.0	35.7	1.0	-45.9	-13.0	-32.9	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/22/2015								
Test Engineer:		Angel Escamilla								
Configuration:		X-pos EUT, Ac Charger, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 4 Harmonics, 10MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1715									
	3430.00	-8.6	V	3.0	36.1	1.0	-43.7	-13.0	-30.7	
LTE4	5145.00	-16.1	V	3.0	35.4	1.0	-50.6	-13.0	-37.6	
	6860.00	-13.8	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
10MHz	3430.00	-11.1	H	3.0	36.1	1.0	-46.2	-13.0	-33.2	
	5145.00	-15.2	H	3.0	35.4	1.0	-49.6	-13.0	-36.6	
QPSK	6860.00	-12.8	H	3.0	35.7	1.0	-47.5	-13.0	-34.5	
	Mid Ch, 1732.5									
	3465.00	-14.3	V	3.0	36.0	1.0	-49.4	-13.0	-36.4	
	5197.50	-16.8	V	3.0	35.4	1.0	-51.2	-13.0	-38.2	
	6930.00	-12.7	V	3.0	35.7	1.0	-47.4	-13.0	-34.4	
	3465.00	-10.4	H	3.0	36.0	1.0	-45.5	-13.0	-32.5	
	5197.50	-16.9	H	3.0	35.4	1.0	-51.3	-13.0	-38.3	
	6930.00	-13.0	H	3.0	35.7	1.0	-47.7	-13.0	-34.7	
	High Ch, 1750									
	3500.00	-7.7	V	3.0	36.0	1.0	-42.7	-13.0	-29.7	
	5250.00	-16.7	V	3.0	35.4	1.0	-51.1	-13.0	-38.1	
	7000.00	-13.3	V	3.0	35.7	1.0	-48.0	-13.0	-35.0	
	3500.00	-10.8	H	3.0	36.0	1.0	-45.8	-13.0	-32.8	
	5250.00	-14.2	H	3.0	35.4	1.0	-48.7	-13.0	-35.7	
	7000.00	-12.3	H	3.0	35.7	1.0	-47.0	-13.0	-34.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/22/2015								
Test Engineer:		Angel Escamilla								
Configuration:		X-pos EUT, Ac Charger, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 4 Harmonics, 5MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1712.5									
LTE4	3425.00	-11.8	V	3.0	36.1	1.0	-46.9	-13.0	-33.9	
	5137.50	-18.1	V	3.0	35.4	1.0	-52.5	-13.0	-39.5	
	6850.00	-13.7	V	3.0	35.7	1.0	-48.4	-13.0	-35.4	
5MHz	3425.00	-12.6	H	3.0	36.1	1.0	-47.6	-13.0	-34.6	
	5137.50	-17.8	H	3.0	35.4	1.0	-52.2	-13.0	-39.2	
	6850.00	-12.6	H	3.0	35.7	1.0	-47.2	-13.0	-34.2	
16QAM	Mid Ch, 1732.5									
	3465.00	-21.7	V	3.0	36.0	1.0	-56.7	-13.0	-43.7	
	5197.50	-15.7	V	3.0	35.4	1.0	-50.1	-13.0	-37.1	
	6930.00	-13.3	V	3.0	35.7	1.0	-47.9	-13.0	-34.9	
	3465.00	-19.3	H	3.0	36.0	1.0	-54.4	-13.0	-41.4	
	5197.50	-14.7	H	3.0	35.4	1.0	-49.1	-13.0	-36.1	
	6930.00	-12.1	H	3.0	35.7	1.0	-46.8	-13.0	-33.8	
	High Ch, 1752.5									
	3505.00	-16.2	V	3.0	36.0	1.0	-51.2	-13.0	-38.2	
	5257.50	-14.5	V	3.0	35.4	1.0	-49.0	-13.0	-36.0	
	7010.00	-12.9	V	3.0	35.7	1.0	-47.6	-13.0	-34.6	
	3505.00	-20.5	H	3.0	36.0	1.0	-55.5	-13.0	-42.5	
	5257.50	-15.2	H	3.0	35.4	1.0	-49.6	-13.0	-36.6	
	7010.00	-13.2	H	3.0	35.7	1.0	-47.9	-13.0	-34.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/22/2015								
Test Engineer:		Angel Escamilla								
Configuration:		X-pos EUT, Ac Charger, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 4 Harmonics, 5MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1712.5									
	3425.00	-12.2	V	3.0	36.1	1.0	-47.3	-13.0	-34.3	
LTE4	5137.50	-18.1	V	3.0	35.4	1.0	-52.5	-13.0	-39.5	
	6850.00	-13.7	V	3.0	35.7	1.0	-48.4	-13.0	-35.4	
5MHz	3425.00	-13.6	H	3.0	36.1	1.0	-48.6	-13.0	-35.6	
	5137.50	-18.0	H	3.0	35.4	1.0	-52.4	-13.0	-39.4	
	6850.00	-12.5	H	3.0	35.7	1.0	-47.2	-13.0	-34.2	
QPSK	Mid Ch, 1732.5									
	3465.00	-20.8	V	3.0	36.0	1.0	-55.9	-13.0	-42.9	
	5197.50	-15.6	V	3.0	35.4	1.0	-50.1	-13.0	-37.1	
	6930.00	-12.4	V	3.0	35.7	1.0	-47.1	-13.0	-34.1	
	3465.00	-19.5	H	3.0	36.0	1.0	-54.5	-13.0	-41.5	
	5197.50	-13.8	H	3.0	35.4	1.0	-48.3	-13.0	-35.3	
	6930.00	-12.4	H	3.0	35.7	1.0	-47.1	-13.0	-34.1	
	High Ch, 1752.5									
	3505.00	-16.6	V	3.0	36.0	1.0	-51.6	-13.0	-38.6	
	5257.50	-14.9	V	3.0	35.4	1.0	-49.3	-13.0	-36.3	
	7010.00	-13.3	V	3.0	35.7	1.0	-48.0	-13.0	-35.0	
	3505.00	-21.6	H	3.0	36.0	1.0	-56.6	-13.0	-43.6	
	5257.50	-14.4	H	3.0	35.4	1.0	-48.8	-13.0	-35.8	
	7010.00	-12.2	H	3.0	35.7	1.0	-46.8	-13.0	-33.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/22/2015								
Test Engineer:		Angel Escamilla								
Configuration:		X-pos EUT, Ac Charger, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 4 Harmonics, 3MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1711.5									
	3423.00	-17.9	V	3.0	36.1	1.0	-52.9	-13.0	-39.9	
LTE4	5134.50	-16.4	V	3.0	35.4	1.0	-50.9	-13.0	-37.9	
	6846.00	-13.9	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
3MHz	3423.00	-9.0	H	3.0	36.1	1.0	-44.1	-13.0	-31.1	
	5134.50	-15.7	H	3.0	35.4	1.0	-50.2	-13.0	-37.2	
	6846.00	-12.4	H	3.0	35.7	1.0	-47.1	-13.0	-34.1	
16QAM	Mid Ch, 1732.5									
	3465.00	-17.6	V	3.0	36.0	1.0	-52.6	-13.0	-39.6	
	5197.50	-17.0	V	3.0	35.4	1.0	-51.4	-13.0	-38.4	
	6930.00	-13.0	V	3.0	35.7	1.0	-47.6	-13.0	-34.6	
	3465.00	-4.9	H	3.0	36.0	1.0	-39.9	-13.0	-26.9	
	5197.50	-17.9	H	3.0	35.4	1.0	-52.3	-13.0	-39.3	
	6930.00	-12.8	H	3.0	35.7	1.0	-47.5	-13.0	-34.5	
	High Ch, 1753.5									
	3507.00	-12.5	V	3.0	36.0	1.0	-47.5	-13.0	-34.5	
	5260.50	-15.1	V	3.0	35.4	1.0	-49.5	-13.0	-36.5	
	7014.00	-13.4	V	3.0	35.7	1.0	-48.1	-13.0	-35.1	
	3507.00	-2.0	H	3.0	36.0	1.0	-37.0	-13.0	-24.0	
	5260.50	-16.1	H	3.0	35.4	1.0	-50.5	-13.0	-37.5	
	7014.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company: LG Project #: 15I20514 Date: 4/22/2015 Test Engineer: Angel Escamilla Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber C Mode: LTE_16QAM Band 4 Harmonics, 1.4MHz Bandwidth										
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1710.7									
	3421.40	-6.0	V	3.0	36.1	1.0	-41.1	-13.0	-28.1	
LTE4	5132.10	-17.8	V	3.0	35.4	1.0	-52.3	-13.0	-39.3	
	6842.80	-12.9	V	3.0	35.7	1.0	-47.6	-13.0	-34.6	
3MHz	3421.40	-7.5	H	3.0	36.1	1.0	-42.6	-13.0	-29.6	
	5132.10	-17.5	H	3.0	35.4	1.0	-52.0	-13.0	-39.0	
	6842.80	-12.8	H	3.0	35.7	1.0	-47.4	-13.0	-34.4	
QPSK	Mid Ch, 1732.5									
	3465.00	-13.6	V	3.0	36.0	1.0	-48.6	-13.0	-35.6	
	5197.50	-14.4	V	3.0	35.4	1.0	-48.9	-13.0	-35.9	
	6930.00	-12.4	V	3.0	35.7	1.0	-47.1	-13.0	-34.1	
	3465.00	-10.1	H	3.0	36.0	1.0	-45.1	-13.0	-32.1	
	5197.50	-16.9	H	3.0	35.4	1.0	-51.3	-13.0	-38.3	
	6930.00	-11.3	H	3.0	35.7	1.0	-46.0	-13.0	-33.0	
	High Ch, 1754.3									
	3508.60	-10.3	V	3.0	36.0	1.0	-45.3	-13.0	-32.3	
	5262.90	-17.5	V	3.0	35.4	1.0	-52.0	-13.0	-39.0	
	7017.20	-12.9	V	3.0	35.7	1.0	-47.6	-13.0	-34.6	
	3508.60	-15.9	H	3.0	36.0	1.0	-50.9	-13.0	-37.9	
	5262.90	-17.3	H	3.0	35.4	1.0	-51.8	-13.0	-38.8	
	7017.20	-12.4	H	3.0	35.7	1.0	-47.1	-13.0	-34.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG									
Project #:		15I20514									
Date:		4/22/2015									
Test Engineer:		Angel Escamilla									
Configuration:		X-pos EUT, Ac Charger, Headset									
Location:		Chamber C									
Mode:		LTE_QPSK Band 4 Harmonics, 1.4MHz Bandwidth									
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
1.4MHz 16QAM	Low Ch, 1710.7										
	LTE4	3421.40	-5.5	V	3.0	36.1	1.0	-40.6	-13.0	-27.6	
		5132.10	-18.5	V	3.0	35.4	1.0	-53.0	-13.0	-40.0	
		6842.80	-13.6	V	3.0	35.7	1.0	-48.2	-13.0	-35.2	
		3421.40	-6.8	H	3.0	36.1	1.0	-41.9	-13.0	-28.9	
		5132.10	-17.7	H	3.0	35.4	1.0	-52.1	-13.0	-39.1	
		6842.80	-12.8	H	3.0	35.7	1.0	-47.4	-13.0	-34.4	
		Mid Ch, 1732.5									
		3465.00	-12.9	V	3.0	36.0	1.0	-47.9	-13.0	-34.9	
		5197.50	-12.8	V	3.0	35.4	1.0	-47.3	-13.0	-34.3	
		6930.00	-13.6	V	3.0	35.7	1.0	-48.3	-13.0	-35.3	
		3465.00	-9.2	H	3.0	36.0	1.0	-44.2	-13.0	-31.2	
		5197.50	-16.5	H	3.0	35.4	1.0	-51.0	-13.0	-38.0	
		6930.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	
		High Ch, 1754.3									
		3508.60	-10.7	V	3.0	36.0	1.0	-45.7	-13.0	-32.7	
		5262.90	-17.5	V	3.0	35.4	1.0	-52.0	-13.0	-39.0	
		7017.20	-13.3	V	3.0	35.7	1.0	-48.0	-13.0	-35.0	
	3508.60	-15.4	H	3.0	36.0	1.0	-50.4	-13.0	-37.4		
	5262.90	-16.9	H	3.0	35.4	1.0	-51.3	-13.0	-38.3		
	7017.20	-12.4	H	3.0	35.7	1.0	-47.1	-13.0	-34.1		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/22/2015								
Test Engineer:		Angel Escamilla								
Configuration:		X-pos EUT, Ac Charger, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 4 Harmonics, 1.4MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 1.4MHz	Low Ch, 1710.7									
	3421.40	-5.5	V	3.0	36.1	1.0	-40.6	-13.0	-27.6	
	5132.10	-18.5	V	3.0	35.4	1.0	-53.0	-13.0	-40.0	
	6842.80	-13.6	V	3.0	35.7	1.0	-48.2	-13.0	-35.2	
	3421.40	-6.8	H	3.0	36.1	1.0	-41.9	-13.0	-28.9	
	5132.10	-17.7	H	3.0	35.4	1.0	-52.1	-13.0	-39.1	
QPSK	Mid Ch, 1732.5									
	3465.00	-12.9	V	3.0	36.0	1.0	-47.9	-13.0	-34.9	
	5197.50	-12.8	V	3.0	35.4	1.0	-47.3	-13.0	-34.3	
	6930.00	-13.6	V	3.0	35.7	1.0	-48.3	-13.0	-35.3	
	3465.00	-9.2	H	3.0	36.0	1.0	-44.2	-13.0	-31.2	
	5197.50	-16.5	H	3.0	35.4	1.0	-51.0	-13.0	-38.0	
	6930.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	
	High Ch, 1754.3									
	3508.60	-10.7	V	3.0	36.0	1.0	-45.7	-13.0	-32.7	
	5262.90	-17.5	V	3.0	35.4	1.0	-52.0	-13.0	-39.0	
7017.20	-13.3	V	3.0	35.7	1.0	-48.0	-13.0	-35.0		
3508.60	-15.4	H	3.0	36.0	1.0	-50.4	-13.0	-37.4		
5262.90	-16.9	H	3.0	35.4	1.0	-51.3	-13.0	-38.3		
7017.20	-12.4	H	3.0	35.7	1.0	-47.1	-13.0	-34.1		

LTE Band 5

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20514							
Date:		4/27/2015							
Test Engineer:		D. Mun							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber F							
Mode:		LTE_16QAM Band 5 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 829									
1658.00	-28.7	V	3.0	37.0	1.0	-64.7	-13.0	-51.7	
2487.00	-22.8	V	3.0	36.4	1.0	-58.2	-13.0	-45.2	
3316.00	-23.0	V	3.0	36.2	1.0	-58.2	-13.0	-45.2	
1658.00	-28.4	H	3.0	37.0	1.0	-64.5	-13.0	-51.5	
2487.00	-25.5	H	3.0	36.4	1.0	-60.9	-13.0	-47.9	
3316.00	-23.0	H	3.0	36.2	1.0	-58.1	-13.0	-45.1	
Mid Ch, 836.5									
1673.00	-28.1	V	3.0	37.0	1.0	-64.1	-13.0	-51.1	
2509.50	-21.6	V	3.0	36.4	1.0	-57.1	-13.0	-44.1	
3346.00	-22.2	V	3.0	36.1	1.0	-57.3	-13.0	-44.3	
1673.00	-28.1	H	3.0	37.0	1.0	-64.1	-13.0	-51.1	
2509.50	-23.5	H	3.0	36.4	1.0	-58.9	-13.0	-45.9	
3346.00	-22.8	H	3.0	36.1	1.0	-58.0	-13.0	-45.0	
High Ch, 844									
1688.00	-28.3	V	3.0	37.0	1.0	-64.2	-13.0	-51.2	
2532.00	-21.3	V	3.0	36.4	1.0	-56.7	-13.0	-43.7	
3376.00	-22.8	V	3.0	36.1	1.0	-57.9	-13.0	-44.9	
1688.00	-28.1	H	3.0	37.0	1.0	-64.1	-13.0	-51.1	
2532.00	-23.9	H	3.0	36.4	1.0	-59.3	-13.0	-46.3	
3376.00	-23.2	H	3.0	36.1	1.0	-58.3	-13.0	-45.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20514								
Date:		4/27/2015								
Test Engineer:		D. Mun								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber F								
Mode:		LTE_QPSK Band 5 Harmonics, 10MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 829									
	1658.00	-27.9	V	3.0	37.0	1.0	-64.0	-13.0	-51.0	
	2487.00	-24.2	V	3.0	36.4	1.0	-59.6	-13.0	-46.6	
LTE5	3316.00	-22.9	V	3.0	36.2	1.0	-58.1	-13.0	-45.1	
	1658.00	-28.5	H	3.0	37.0	1.0	-64.6	-13.0	-51.6	
	2487.00	-24.7	H	3.0	36.4	1.0	-60.1	-13.0	-47.1	
10MHz	3316.00	-23.0	H	3.0	36.2	1.0	-58.2	-13.0	-45.2	
	Mid Ch, 836.5									
	1673.00	-28.7	V	3.0	37.0	1.0	-64.7	-13.0	-51.7	
QPSK	2509.50	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
	3346.00	-22.8	V	3.0	36.1	1.0	-57.9	-13.0	-44.9	
	1673.00	-28.1	H	3.0	37.0	1.0	-64.1	-13.0	-51.1	
	2509.50	-22.4	H	3.0	36.4	1.0	-57.8	-13.0	-44.8	
	3346.00	-22.9	H	3.0	36.1	1.0	-58.1	-13.0	-45.1	
	High Ch, 844									
	1688.00	-28.5	V	3.0	37.0	1.0	-64.5	-13.0	-51.5	
	2532.00	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
	3376.00	-22.2	V	3.0	36.1	1.0	-57.2	-13.0	-44.2	
	1688.00	-27.7	H	3.0	37.0	1.0	-63.7	-13.0	-50.7	
	2532.00	-23.6	H	3.0	36.4	1.0	-59.0	-13.0	-46.0	
	3376.00	-22.5	H	3.0	36.1	1.0	-57.5	-13.0	-44.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20514								
Date:		4/27/2015								
Test Engineer:		D. Mun								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber F								
Mode:		LTE_16QAM Band 5 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 826.5									
	1653.00	-27.4	V	3.0	37.0	1.0	-63.4	-13.0	-50.4	
	2479.50	-22.1	V	3.0	36.4	1.0	-57.6	-13.0	-44.6	
LTE5	3306.00									
	1653.00	-27.1	H	3.0	37.0	1.0	-63.2	-13.0	-50.2	
	2479.50	-22.8	H	3.0	36.4	1.0	-58.2	-13.0	-45.2	
5MHz	3306.00									
	1653.00	-27.1	H	3.0	37.0	1.0	-63.2	-13.0	-50.2	
	2479.50	-22.8	H	3.0	36.4	1.0	-58.2	-13.0	-45.2	
16QAM	Mid Ch, 836.5									
	1673.00	-27.0	V	3.0	37.0	1.0	-63.0	-13.0	-50.0	
	2509.50	-20.5	V	3.0	36.4	1.0	-55.9	-13.0	-42.9	
	3346.00	-22.0	V	3.0	36.1	1.0	-57.1	-13.0	-44.1	
	1673.00	-27.4	H	3.0	37.0	1.0	-63.4	-13.0	-50.4	
	2509.50	-22.3	H	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	3346.00	-21.8	H	3.0	36.1	1.0	-56.9	-13.0	-43.9	
	High Ch, 846.5									
	1693.00	-26.4	V	3.0	37.0	1.0	-62.3	-13.0	-49.3	
	2539.50	-20.6	V	3.0	36.4	1.0	-56.0	-13.0	-43.0	
	3386.00	-20.8	V	3.0	36.1	1.0	-55.9	-13.0	-42.9	
	1693.00	-26.9	H	3.0	37.0	1.0	-62.9	-13.0	-49.9	
2539.50	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3		
3386.00	-21.8	H	3.0	36.1	1.0	-56.9	-13.0	-43.9		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20514								
Date:		4/27/2015								
Test Engineer:		D. Mun								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber F								
Mode:		LTE_QPSK Band 5 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 826.5									
	1653.00	-27.0	V	3.0	37.0	1.0	-63.0	-13.0	-50.0	
	2479.50	-21.3	V	3.0	36.4	1.0	-56.8	-13.0	-43.8	
LTE5	3306.00	-22.4	V	3.0	36.2	1.0	-57.5	-13.0	-44.5	
	1653.00	-27.2	H	3.0	37.0	1.0	-63.3	-13.0	-50.3	
	2479.50	-23.0	H	3.0	36.4	1.0	-58.5	-13.0	-45.5	
5MHz	3306.00	-22.0	H	3.0	36.2	1.0	-57.2	-13.0	-44.2	
	Mid Ch, 836.5									
	1673.00	-27.1	V	3.0	37.0	1.0	-63.1	-13.0	-50.1	
QPSK	2509.50	-20.9	V	3.0	36.4	1.0	-56.3	-13.0	-43.3	
	3346.00	-22.0	V	3.0	36.1	1.0	-57.1	-13.0	-44.1	
	1673.00	-27.4	H	3.0	37.0	1.0	-63.4	-13.0	-50.4	
	2509.50	-22.7	H	3.0	36.4	1.0	-58.1	-13.0	-45.1	
	3346.00	-21.8	H	3.0	36.1	1.0	-56.9	-13.0	-43.9	
	High Ch, 846.5									
	1693.00	-26.5	V	3.0	37.0	1.0	-62.5	-13.0	-49.5	
	2539.50	-21.1	V	3.0	36.4	1.0	-56.5	-13.0	-43.5	
	3386.00	-21.1	V	3.0	36.1	1.0	-56.2	-13.0	-43.2	
	1693.00	-26.9	H	3.0	37.0	1.0	-62.9	-13.0	-49.9	
	2539.50	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3	
	3386.00	-21.3	H	3.0	36.1	1.0	-56.4	-13.0	-43.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20514							
Date:		4/27/2015							
Test Engineer:		D. Mun							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber F							
Mode:		LTE_16QAM Band 5 Harmonics, 3MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 825.5									
1651.00	-27.0	V	3.0	37.0	1.0	-63.0	-13.0	-50.0	
2476.50	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
3302.00	-22.1	V	3.0	36.2	1.0	-57.2	-13.0	-44.2	
LTE5									
1651.00	-27.2	H	3.0	37.0	1.0	-63.2	-13.0	-50.2	
2476.50	-22.8	H	3.0	36.4	1.0	-58.2	-13.0	-45.2	
3MHz									
3302.00	-21.0	H	3.0	36.2	1.0	-56.2	-13.0	-43.2	
Mid Ch, 836.5									
1673.00	-27.0	V	3.0	37.0	1.0	-63.0	-13.0	-50.0	
2509.50	-20.6	V	3.0	36.4	1.0	-56.0	-13.0	-43.0	
3346.00	-22.0	V	3.0	36.1	1.0	-57.1	-13.0	-44.1	
1673.00	-27.5	H	3.0	37.0	1.0	-63.6	-13.0	-50.6	
2509.50	-22.9	H	3.0	36.4	1.0	-58.3	-13.0	-45.3	
3346.00	-22.4	H	3.0	36.1	1.0	-57.5	-13.0	-44.5	
High Ch, 847.5									
1695.00	-26.3	V	3.0	37.0	1.0	-62.2	-13.0	-49.2	
2542.50	-21.1	V	3.0	36.4	1.0	-56.5	-13.0	-43.5	
3390.00	-21.4	V	3.0	36.1	1.0	-56.5	-13.0	-43.5	
1695.00	-27.1	H	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2542.50	-22.4	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	
3390.00	-21.7	H	3.0	36.1	1.0	-56.8	-13.0	-43.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20514								
Date:		4/27/2015								
Test Engineer:		D. Mun								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber F								
Mode:		LTE_QPSK Band 5 Harmonics, 3MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 825.5									
Band	1651.00	-26.5	V	3.0	37.0	1.0	-62.5	-13.0	-49.5	
	2476.50	-21.5	V	3.0	36.4	1.0	-56.9	-13.0	-43.9	
LTE5	3302.00	-21.7	V	3.0	36.2	1.0	-56.9	-13.0	-43.9	
	1651.00	-27.8	H	3.0	37.0	1.0	-63.8	-13.0	-50.8	
	2476.50	-23.3	H	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3MHz	3302.00	-22.0	H	3.0	36.2	1.0	-57.2	-13.0	-44.2	
	Mid Ch, 836.5									
	1673.00	-26.4	V	3.0	37.0	1.0	-62.4	-13.0	-49.4	
QPSK	2509.50	-20.7	V	3.0	36.4	1.0	-56.1	-13.0	-43.1	
	3346.00	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7	
	1673.00	-27.0	H	3.0	37.0	1.0	-63.0	-13.0	-50.0	
	2509.50	-22.2	H	3.0	36.4	1.0	-57.6	-13.0	-44.6	
	3346.00	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0	
	High Ch, 847.5									
	1695.00	-26.7	V	3.0	37.0	1.0	-62.6	-13.0	-49.6	
	2542.50	-20.8	V	3.0	36.4	1.0	-56.2	-13.0	-43.2	
	3390.00	-20.8	V	3.0	36.1	1.0	-55.9	-13.0	-42.9	
	1695.00	-26.4	H	3.0	37.0	1.0	-62.4	-13.0	-49.4	
	2542.50	-22.0	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	
	3390.00	-20.5	H	3.0	36.1	1.0	-55.6	-13.0	-42.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20514							
Date:		4/27/2015							
Test Engineer:		D. Mun							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber F							
Mode:		LTE_16QAM Band 5 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7									
Band	1649.40	-27.1	V	3.0	37.1	1.0	-63.2	-13.0	-50.2
	2474.10	-20.9	V	3.0	36.4	1.0	-56.3	-13.0	-43.3
LTE5	3298.80	-21.2	V	3.0	36.2	1.0	-56.4	-13.0	-43.4
	1649.40	-27.6	H	3.0	37.1	1.0	-63.7	-13.0	-50.7
	2474.10	-22.1	H	3.0	36.4	1.0	-57.5	-13.0	-44.5
1.4MHz	3298.80	-22.5	H	3.0	36.2	1.0	-57.7	-13.0	-44.7
Mid Ch, 836.5									
16QAM	1673.00	-26.5	V	3.0	37.0	1.0	-62.5	-13.0	-49.5
	2509.50	-20.9	V	3.0	36.4	1.0	-56.3	-13.0	-43.3
	3346.00	-22.3	V	3.0	36.1	1.0	-57.4	-13.0	-44.4
	1673.00	-27.4	H	3.0	37.0	1.0	-63.4	-13.0	-50.4
	2509.50	-23.8	H	3.0	36.4	1.0	-59.2	-13.0	-46.2
	3346.00	-23.4	H	3.0	36.1	1.0	-58.5	-13.0	-45.5
High Ch, 848.3									
	1696.60	-26.5	V	3.0	37.0	1.0	-62.5	-13.0	-49.5
	2544.90	-22.4	V	3.0	36.4	1.0	-57.9	-13.0	-44.9
	3393.20	-20.5	V	3.0	36.1	1.0	-55.6	-13.0	-42.6
	1696.60	-27.3	H	3.0	37.0	1.0	-63.3	-13.0	-50.3
	2544.90	-22.6	H	3.0	36.4	1.0	-58.0	-13.0	-45.0
	3393.20	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20514								
Date:		4/27/2015								
Test Engineer:		D. Mun								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber F								
Mode:		LTE_QPSK Band 5 Harmonics, 1.4MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 824.7									
	1649.40	-27.0	V	3.0	37.1	1.0	-63.1	-13.0	-50.1	
	2474.10	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
	3298.80	-21.1	V	3.0	36.2	1.0	-56.3	-13.0	-43.3	
1.4MHz	1649.40	-26.7	H	3.0	37.1	1.0	-62.7	-13.0	-49.7	
	2474.10	-23.5	H	3.0	36.4	1.0	-59.0	-13.0	-46.0	
	3298.80	-21.9	H	3.0	36.2	1.0	-57.1	-13.0	-44.1	
QPSK	Mid Ch, 836.5									
	1673.00	-27.4	V	3.0	37.0	1.0	-63.4	-13.0	-50.4	
	2509.50	-25.1	V	3.0	36.4	1.0	-60.6	-13.0	-47.6	
	3346.00	-21.3	V	3.0	36.1	1.0	-56.4	-13.0	-43.4	
	1673.00	-26.1	H	3.0	37.0	1.0	-62.1	-13.0	-49.1	
	2509.50	-23.0	H	3.0	36.4	1.0	-58.4	-13.0	-45.4	
	3346.00	-20.9	H	3.0	36.1	1.0	-56.0	-13.0	-43.0	
	High Ch, 848.3									
	1696.60	-25.4	V	3.0	37.0	1.0	-61.4	-13.0	-48.4	
	2544.90	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	3393.20	-21.5	V	3.0	36.1	1.0	-56.6	-13.0	-43.6	
	1696.60	-26.7	H	3.0	37.0	1.0	-62.7	-13.0	-49.7	
	2544.90	-21.8	H	3.0	36.4	1.0	-57.2	-13.0	-44.2	
	3393.20	-22.0	H	3.0	36.1	1.0	-57.1	-13.0	-44.1	

LTE Band 12

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/27/2015								
Test Engineer:		D. Mun								
Configuration:		EUT , AC Adapter /HS								
Location:		Chamber F								
Mode:		LTE_16QAM Band 12 Harmonics, 10MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch,704									
LTE12	1408.00	-29.9	V	3.0	37.4	1.0	-66.3	-13.0	-53.3	
	2112.00	-20.6	V	3.0	36.6	1.0	-56.2	-13.0	-43.2	
10MHz	2816.00	-22.8	V	3.0	36.4	1.0	-58.2	-13.0	-45.2	
	1408.00	-28.8	H	3.0	37.4	1.0	-65.2	-13.0	-52.2	
16QAM	2112.00	-24.2	H	3.0	36.6	1.0	-59.8	-13.0	-46.8	
	2816.00	-23.4	H	3.0	36.4	1.0	-58.8	-13.0	-45.8	
	Mid Ch,707.5									
	1415.00	-29.4	V	3.0	37.3	1.0	-65.7	-13.0	-52.7	
	2122.50	-22.9	V	3.0	36.6	1.0	-58.4	-13.0	-45.4	
	2830.00	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
	1415.00	-28.1	H	3.0	37.3	1.0	-64.5	-13.0	-51.5	
	2122.50	-24.3	H	3.0	36.6	1.0	-59.9	-13.0	-46.9	
	2830.00	-23.8	H	3.0	36.4	1.0	-59.2	-13.0	-46.2	
	High Ch,711									
	1422.00	-28.7	V	3.0	37.3	1.0	-65.0	-13.0	-52.0	
	2133.00	-22.5	V	3.0	36.6	1.0	-58.0	-13.0	-45.0	
	2844.00	-22.2	V	3.0	36.4	1.0	-57.6	-13.0	-44.6	
	1422.00	-28.7	H	3.0	37.3	1.0	-65.0	-13.0	-52.0	
	2133.00	-24.3	H	3.0	36.6	1.0	-59.9	-13.0	-46.9	
	2844.00	-24.5	H	3.0	36.4	1.0	-59.9	-13.0	-46.9	

UL Verification Services, Inc.									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20514							
Date:		4/27/2015							
Test Engineer:		D. Mun							
Configuration:		EUT , AC Adapter /HS							
Location:		Chamber F							
Mode:		LTE_QPSK Band 12 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch,704									
1408.00	-28.9	V	3.0	37.4	1.0	-65.2	-13.0	-52.2	
2112.00	-22.9	V	3.0	36.6	1.0	-58.5	-13.0	-45.5	
2816.00	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
10MHz									
1408.00	-28.3	H	3.0	37.4	1.0	-64.7	-13.0	-51.7	
2112.00	-24.5	H	3.0	36.6	1.0	-60.1	-13.0	-47.1	
2816.00	-23.3	H	3.0	36.4	1.0	-58.7	-13.0	-45.7	
QPSK									
Mid Ch,707.5									
1415.00	-30.0	V	3.0	37.3	1.0	-66.3	-13.0	-53.3	
2122.50	-22.0	V	3.0	36.6	1.0	-57.6	-13.0	-44.6	
2830.00	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
1415.00	-28.6	H	3.0	37.3	1.0	-64.9	-13.0	-51.9	
2122.50	-22.0	H	3.0	36.6	1.0	-57.6	-13.0	-44.6	
2830.00	-22.7	H	3.0	36.4	1.0	-58.0	-13.0	-45.0	
High Ch,711									
1422.00	-29.6	V	3.0	37.3	1.0	-66.0	-13.0	-53.0	
2133.00	-22.6	V	3.0	36.6	1.0	-58.2	-13.0	-45.2	
2844.00	-22.4	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
1422.00	-28.2	H	3.0	37.3	1.0	-64.5	-13.0	-51.5	
2133.00	-24.5	H	3.0	36.6	1.0	-60.1	-13.0	-47.1	
2844.00	-24.3	H	3.0	36.4	1.0	-59.7	-13.0	-46.7	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/27/2015								
Test Engineer:		D. Mun								
Configuration:		EUT , AC Adapter /HS								
Location:		Chamber F								
Mode:		LTE_16QAM Band 12 Harmonics, 5MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 701.50									
LTE12	1403.00	-34.5	V	3.0	37.4	1.0	-70.8	-13.0	-57.8	
	2104.50	-27.8	V	3.0	36.6	1.0	-63.4	-13.0	-50.4	
5MHz	2806.00	-27.5	V	3.0	36.4	1.0	-62.9	-13.0	-49.9	
	1403.00	-32.6	H	3.0	37.4	1.0	-69.0	-13.0	-56.0	
16QAM	2104.50	-28.1	H	3.0	36.6	1.0	-63.6	-13.0	-50.6	
	2806.00	-28.1	H	3.0	36.4	1.0	-63.5	-13.0	-50.5	
	Mid Ch, 707.50									
	1415.00	-33.7	V	3.0	37.3	1.0	-70.1	-13.0	-57.1	
	2122.50	-27.7	V	3.0	36.6	1.0	-63.3	-13.0	-50.3	
	2830.00	-24.4	V	3.0	36.4	1.0	-59.8	-13.0	-46.8	
	1415.00	-32.8	H	3.0	37.3	1.0	-69.1	-13.0	-56.1	
	2122.50	-26.5	H	3.0	36.6	1.0	-62.1	-13.0	-49.1	
	2830.00	-26.9	H	3.0	36.4	1.0	-62.3	-13.0	-49.3	
	High Ch, 713.50									
	1427.00	-33.1	V	3.0	37.3	1.0	-69.4	-13.0	-56.4	
	2140.50	-27.2	V	3.0	36.6	1.0	-62.8	-13.0	-49.8	
	2854.00	-26.1	V	3.0	36.4	1.0	-61.4	-13.0	-48.4	
	1427.00	-31.6	H	3.0	37.3	1.0	-67.9	-13.0	-54.9	
	2140.50	-26.7	H	3.0	36.6	1.0	-62.3	-13.0	-49.3	
	2854.00	-27.6	H	3.0	36.4	1.0	-63.0	-13.0	-50.0	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/27/2015								
Test Engineer:		D. Mun								
Configuration:		EUT , AC Adapter /HS								
Location:		Chamber F								
Mode:		LTE_QPSK Band 12 Harmonics, 5MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 701.50										
LTE12	1403.00	-31.4	V	3.0	37.4	1.0	-67.7	-13.0	-54.7	
	2104.50	-25.9	V	3.0	36.6	1.0	-61.5	-13.0	-48.5	
5MHz	2806.00	-25.6	V	3.0	36.4	1.0	-61.0	-13.0	-48.0	
	1403.00	-29.0	H	3.0	37.4	1.0	-65.4	-13.0	-52.4	
QPSK	2104.50	-25.9	H	3.0	36.6	1.0	-61.4	-13.0	-48.4	
	2806.00	-25.8	H	3.0	36.4	1.0	-61.2	-13.0	-48.2	
Mid Ch, 707.50										
	1415.00	-33.6	V	3.0	37.3	1.0	-69.9	-13.0	-56.9	
	2122.50	-27.6	V	3.0	36.6	1.0	-63.2	-13.0	-50.2	
	2830.00	-25.0	V	3.0	36.4	1.0	-60.4	-13.0	-47.4	
	1415.00	-32.6	H	3.0	37.3	1.0	-69.0	-13.0	-56.0	
	2122.50	-28.3	H	3.0	36.6	1.0	-63.9	-13.0	-50.9	
	2830.00	-27.7	H	3.0	36.4	1.0	-63.1	-13.0	-50.1	
High Ch, 713.50										
	1427.00	-33.8	V	3.0	37.3	1.0	-70.1	-13.0	-57.1	
	2140.50	-27.4	V	3.0	36.6	1.0	-63.0	-13.0	-50.0	
	2854.00	-26.3	V	3.0	36.4	1.0	-61.7	-13.0	-48.7	
	1427.00	-31.3	H	3.0	37.3	1.0	-67.7	-13.0	-54.7	
	2140.50	-26.9	H	3.0	36.6	1.0	-62.4	-13.0	-49.4	
	2854.00	-26.3	H	3.0	36.4	1.0	-61.7	-13.0	-48.7	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/27/2015								
Test Engineer:		D. Mun								
Configuration:		EUT , AC Adapter /HS								
Location:		Chamber F								
Mode:		LTE_16QAM Band 12 Harmonics, 3MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 700.5									
LTE12	1401.00	-32.9	V	3.0	37.4	1.0	-69.2	-13.0	-56.2	
	2101.50	-27.0	V	3.0	36.6	1.0	-62.6	-13.0	-49.6	
3MHz	2802.00	-26.3	V	3.0	36.4	1.0	-61.6	-13.0	-48.6	
	1401.00	-32.8	H	3.0	37.4	1.0	-69.2	-13.0	-56.2	
16QAM	2101.50	-28.0	H	3.0	36.6	1.0	-63.6	-13.0	-50.6	
	2802.00	-27.5	H	3.0	36.4	1.0	-62.9	-13.0	-49.9	
	Mid Ch, 707.50									
	1415.00	-30.3	V	3.0	37.3	1.0	-66.6	-13.0	-53.6	
	2122.00	-24.4	V	3.0	36.6	1.0	-60.0	-13.0	-47.0	
	2830.00	-23.2	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
	1415.00	-30.3	H	3.0	37.3	1.0	-66.6	-13.0	-53.6	
	2122.00	-24.9	H	3.0	36.6	1.0	-60.5	-13.0	-47.5	
	2830.00	-24.5	H	3.0	36.4	1.0	-59.9	-13.0	-46.9	
	High Ch, 714.5									
	1429.00	-29.1	V	3.0	37.3	1.0	-65.4	-13.0	-52.4	
	2143.50	-23.7	V	3.0	36.6	1.0	-59.2	-13.0	-46.2	
	2858.00	-23.9	V	3.0	36.4	1.0	-59.3	-13.0	-46.3	
	1429.00	-29.4	H	3.0	37.3	1.0	-65.7	-13.0	-52.7	
	2143.50	-24.8	H	3.0	36.6	1.0	-60.4	-13.0	-47.4	
	2858.00	-26.0	H	3.0	36.4	1.0	-61.4	-13.0	-48.4	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/27/2015								
Test Engineer:		D. Mun								
Configuration:		EUT , AC Adapter /HS								
Location:		Chamber F								
Mode:		LTE_QPSK Band 12 Harmonics, 3MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 700.5									
LTE12	1401.00	-32.8	V	3.0	37.4	1.0	-69.2	-13.0	-56.2	
	2101.50	-26.7	V	3.0	36.6	1.0	-62.3	-13.0	-49.3	
3MHz	2802.00	-27.0	V	3.0	36.4	1.0	-62.4	-13.0	-49.4	
	1401.00	-32.3	H	3.0	37.4	1.0	-68.6	-13.0	-55.6	
QPSK	2101.50	-26.9	H	3.0	36.6	1.0	-62.5	-13.0	-49.5	
	2802.00	-26.8	H	3.0	36.4	1.0	-62.2	-13.0	-49.2	
	Mid Ch, 707.50									
	1415.00	-29.8	V	3.0	37.3	1.0	-66.1	-13.0	-53.1	
	2122.00	-24.1	V	3.0	36.6	1.0	-59.7	-13.0	-46.7	
	2830.00	-24.0	V	3.0	36.4	1.0	-59.3	-13.0	-46.3	
	1415.00	-29.9	H	3.0	37.3	1.0	-66.3	-13.0	-53.3	
	2122.00	-24.6	H	3.0	36.6	1.0	-60.2	-13.0	-47.2	
	2830.00	-24.3	H	3.0	36.4	1.0	-59.7	-13.0	-46.7	
	High Ch, 714.5									
	1429.00	-32.8	V	3.0	37.3	1.0	-69.1	-13.0	-56.1	
	2143.50	-26.5	V	3.0	36.6	1.0	-62.0	-13.0	-49.0	
	2858.00	-25.2	V	3.0	36.4	1.0	-60.6	-13.0	-47.6	
	1429.00	-30.0	H	3.0	37.3	1.0	-66.3	-13.0	-53.3	
	2143.50	-26.5	H	3.0	36.6	1.0	-62.1	-13.0	-49.1	
	2858.00	-25.6	H	3.0	36.4	1.0	-61.0	-13.0	-48.0	

UL Verification Services, Inc. Chamber F											
Above 1GHz High Frequency Substitution Measurement											
Company:		LG Electronics									
Project #:		15I20514									
Date:		04/27/15									
Test Engineer:		D. Mun									
Configuration:		EUT w/ AC Adapter + HS									
Location:		Chamber F									
Mode:		LTE_16QAM Band 12 Harmonics, 1.4MHz Bandwidth									
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
LTE12 1.4MHz 16QAM	Low Ch, 699.7										
		1399.40	-28.8	V	3.0	37.4	1.0	-65.1	-13.0	-52.1	
		2099.10	-23.5	V	3.0	36.6	1.0	-59.1	-13.0	-46.1	
		2798.80	-25.8	V	3.0	36.4	1.0	-61.2	-13.0	-48.2	
		1399.40	-26.8	H	3.0	37.4	1.0	-63.1	-13.0	-50.1	
		2099.10	-25.5	H	3.0	36.6	1.0	-61.0	-13.0	-48.0	
		2798.80	-26.6	H	3.0	36.4	1.0	-62.0	-13.0	-49.0	
		Mid Ch, 707.50									
		1415.00	-30.0	V	3.0	37.3	1.0	-66.4	-13.0	-53.4	
		2122.00	-26.4	V	3.0	36.6	1.0	-62.0	-13.0	-49.0	
		2830.00	-25.8	V	3.0	36.4	1.0	-61.2	-13.0	-48.2	
		1415.00	-30.0	H	3.0	37.3	1.0	-66.4	-13.0	-53.4	
		2122.00	-26.4	H	3.0	36.6	1.0	-62.0	-13.0	-49.0	
		2830.00	-26.0	H	3.0	36.4	1.0	-61.3	-13.0	-48.3	
		High Ch, 715.3									
		1430.60	-29.5	V	3.0	37.3	1.0	-65.9	-13.0	-52.9	
		2145.90	-23.9	V	3.0	36.6	1.0	-59.4	-13.0	-46.4	
		2861.20	-25.5	V	3.0	36.4	1.0	-60.9	-13.0	-47.9	
	1430.60	-29.6	H	3.0	37.3	1.0	-65.9	-13.0	-52.9		
	2145.90	-25.9	H	3.0	36.6	1.0	-61.5	-13.0	-48.5		
	2861.20	-27.2	H	3.0	36.4	1.0	-62.6	-13.0	-49.6		

UL Verification Services, Inc. Chamber F											
Above 1GHz High Frequency Substitution Measurement											
Company:		LG Electronics									
Project #:		15I20514									
Date:		04/27/15									
Test Engineer:		D. Mun									
Configuration:		EUT w/ AC Adapter + HS									
Location:		Chamber F									
Mode:		LTE_QPSK Band 12 Harmonics, 1.4MHz Bandwidth									
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
1.4MHz QPSK	Low Ch, 699.7										
	LTE12	1399.40	-27.0	V	3.0	37.4	1.0	-63.4	-13.0	-50.4	
		2099.10	-24.1	V	3.0	36.6	1.0	-59.7	-13.0	-46.7	
		2798.80	-26.1	V	3.0	36.4	1.0	-61.5	-13.0	-48.5	
		1399.40	-26.0	H	3.0	37.4	1.0	-62.4	-13.0	-49.4	
		2099.10	-25.4	H	3.0	36.6	1.0	-61.0	-13.0	-48.0	
		2798.80	-27.9	H	3.0	36.4	1.0	-63.3	-13.0	-50.3	
		Mid Ch, 707.50									
		1415.00	-29.7	V	3.0	37.3	1.0	-66.0	-13.0	-53.0	
		2122.00	-27.3	V	3.0	36.6	1.0	-62.8	-13.0	-49.8	
		2830.00	-26.2	V	3.0	36.4	1.0	-61.6	-13.0	-48.6	
		1415.00	-29.3	H	3.0	37.3	1.0	-65.6	-13.0	-52.6	
		2122.00	-27.6	H	3.0	36.6	1.0	-63.2	-13.0	-50.2	
		2830.00	-27.0	H	3.0	36.4	1.0	-62.4	-13.0	-49.4	
		High Ch, 715.3									
		1430.60	-28.7	V	3.0	37.3	1.0	-65.0	-13.0	-52.0	
		2145.90	-22.1	V	3.0	36.6	1.0	-57.6	-13.0	-44.6	
		2861.20	-24.0	V	3.0	36.4	1.0	-59.4	-13.0	-46.4	
	1430.60	-28.4	H	3.0	37.3	1.0	-64.7	-13.0	-51.7		
	2145.90	-24.7	H	3.0	36.6	1.0	-60.2	-13.0	-47.2		
	2861.20	-25.7	H	3.0	36.4	1.0	-61.1	-13.0	-48.1		

LTE Band 25

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
<p>Company: LG Project #: 15I20514 Date: 4/23/2015 Test Engineer: Angel Escamilla Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber C Mode: LTE_16QAM Band 25 Harmonics, 20MHz Bandwidth</p>									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
3720.00	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3	
5580.00	-15.3	V	3.0	35.5	1.0	-49.8	-13.0	-36.8	
7440.00	-11.1	V	3.0	35.7	1.0	-45.8	-13.0	-32.8	
3720.00	-21.1	H	3.0	35.8	1.0	-56.0	-13.0	-43.0	
5580.00	-11.7	H	3.0	35.5	1.0	-46.2	-13.0	-33.2	
7440.00	-11.7	H	3.0	35.7	1.0	-46.4	-13.0	-33.4	
Mid Ch, 1882.5									
3765.00	-19.6	V	3.0	35.8	1.0	-54.4	-13.0	-41.4	
5647.50	-16.7	V	3.0	35.5	1.0	-51.1	-13.0	-38.1	
7530.00	-10.9	V	3.0	35.7	1.0	-45.7	-13.0	-32.7	
3765.00	-20.6	H	3.0	35.8	1.0	-55.4	-13.0	-42.4	
5647.50	-16.9	H	3.0	35.5	1.0	-51.4	-13.0	-38.4	
7530.00	-9.9	H	3.0	35.7	1.0	-44.7	-13.0	-31.7	
High Ch, 1905									
3810.00	-18.8	V	3.0	35.8	1.0	-53.6	-13.0	-40.6	
5715.00	-15.5	V	3.0	35.5	1.0	-50.0	-13.0	-37.0	
7620.00	-11.9	V	3.0	35.8	1.0	-46.7	-13.0	-33.7	
3810.00	-20.4	H	3.0	35.8	1.0	-55.2	-13.0	-42.2	
5715.00	-14.9	H	3.0	35.5	1.0	-49.4	-13.0	-36.4	
7620.00	-12.6	H	3.0	35.8	1.0	-47.4	-13.0	-34.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20514							
Date:		4/23/2015							
Test Engineer:		Angel Escamilla							
Configuration:		X-pos EUT, Ac Charger, Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 25 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
Band	3720.00	-20.3	V	3.0	35.8	1.0	-55.2	-13.0	-42.2
	5580.00	-15.6	V	3.0	35.5	1.0	-50.1	-13.0	-37.1
LTE25	7440.00	-10.8	V	3.0	35.7	1.0	-45.5	-13.0	-32.5
	3720.00	-21.3	H	3.0	35.8	1.0	-56.2	-13.0	-43.2
	5580.00	-12.9	H	3.0	35.5	1.0	-47.4	-13.0	-34.4
20MHz	7440.00	-11.5	H	3.0	35.7	1.0	-46.3	-13.0	-33.3
Mid Ch, 1882.5									
QPSK	3765.00	-18.0	V	3.0	35.8	1.0	-52.8	-13.0	-39.8
	5647.50	-15.1	V	3.0	35.5	1.0	-49.6	-13.0	-36.6
	7530.00	-11.3	V	3.0	35.7	1.0	-46.0	-13.0	-33.0
	3765.00	-18.7	H	3.0	35.8	1.0	-53.5	-13.0	-40.5
	5647.50	-16.6	H	3.0	35.5	1.0	-51.1	-13.0	-38.1
	7530.00	-10.4	H	3.0	35.7	1.0	-45.2	-13.0	-32.2
High Ch, 1905									
	3810.00	-19.7	V	3.0	35.8	1.0	-54.5	-13.0	-41.5
	5715.00	-15.1	V	3.0	35.5	1.0	-49.6	-13.0	-36.6
	7620.00	-11.3	V	3.0	35.8	1.0	-46.1	-13.0	-33.1
	3810.00	-20.8	H	3.0	35.8	1.0	-55.6	-13.0	-42.6
	5715.00	-15.3	H	3.0	35.5	1.0	-49.8	-13.0	-36.8
	7620.00	-12.2	H	3.0	35.8	1.0	-47.0	-13.0	-34.0

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20514							
Date:		4/23/2015							
Test Engineer:		Angel Escamilla							
Configuration:		X-pos EUT, Ac Charger, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 25 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1857.5									
Band	3715.00	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1
	5572.50	-16.8	V	3.0	35.5	1.0	-51.3	-13.0	-38.3
LTE25	7430.00	-13.5	V	3.0	35.7	1.0	-48.2	-13.0	-35.2
	3715.00	-21.6	H	3.0	35.8	1.0	-56.4	-13.0	-43.4
	5572.50	-15.5	H	3.0	35.5	1.0	-49.9	-13.0	-36.9
15MHz	7430.00	-12.4	H	3.0	35.7	1.0	-47.1	-13.0	-34.1
Mid Ch, 1882.5									
16QAM	3815.00	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3
	5722.50	-14.2	V	3.0	35.5	1.0	-48.7	-13.0	-35.7
	7630.00	-13.5	V	3.0	35.7	1.0	-48.2	-13.0	-35.2
	3815.00	-20.7	H	3.0	35.8	1.0	-55.5	-13.0	-42.5
	5722.50	-16.5	H	3.0	35.5	1.0	-50.9	-13.0	-37.9
	7630.00	-10.1	H	3.0	35.7	1.0	-44.8	-13.0	-31.8
High Ch, 1907.5									
	3815.00	-21.1	V	3.0	35.8	1.0	-55.8	-13.0	-42.8
	5722.50	-12.6	V	3.0	35.5	1.0	-47.1	-13.0	-34.1
	7630.00	-11.8	V	3.0	35.8	1.0	-46.6	-13.0	-33.6
	3815.00	-21.4	H	3.0	35.8	1.0	-56.2	-13.0	-43.2
	5722.50	-14.8	H	3.0	35.5	1.0	-49.3	-13.0	-36.3
	7630.00	-13.0	H	3.0	35.8	1.0	-47.7	-13.0	-34.7

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20514							
Date:		4/23/2015							
Test Engineer:		Angel Escamilla							
Configuration:		X-pos EUT, Ac Charger, Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 25 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1857.5									
Band	3715.00	-20.8	V	3.0	35.8	1.0	-55.6	-13.0	-42.6
	5572.50	-16.3	V	3.0	35.5	1.0	-50.8	-13.0	-37.8
LTE25	7430.00	-13.0	V	3.0	35.7	1.0	-47.8	-13.0	-34.8
	3715.00	-21.3	H	3.0	35.8	1.0	-56.2	-13.0	-43.2
	5572.50	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3
15MHz	7430.00	-12.4	H	3.0	35.7	1.0	-47.1	-13.0	-34.1
Mid Ch, 1882.5									
QPSK	3765.00	-20.3	V	3.0	35.8	1.0	-55.1	-13.0	-42.1
	5647.50	-15.8	V	3.0	35.5	1.0	-50.3	-13.0	-37.3
	7530.00	-12.4	V	3.0	35.7	1.0	-47.2	-13.0	-34.2
	3765.00	-20.5	H	3.0	35.8	1.0	-55.3	-13.0	-42.3
	5647.50	-16.1	H	3.0	35.5	1.0	-50.6	-13.0	-37.6
	7530.00	-11.0	H	3.0	35.7	1.0	-45.7	-13.0	-32.7
High Ch, 1907.5									
	3815.00	-19.7	V	3.0	35.8	1.0	-54.4	-13.0	-41.4
	5722.50	-12.5	V	3.0	35.5	1.0	-47.0	-13.0	-34.0
	7630.00	-12.0	V	3.0	35.8	1.0	-46.7	-13.0	-33.7
	3815.00	-21.5	H	3.0	35.8	1.0	-56.3	-13.0	-43.3
	5722.50	-14.0	H	3.0	35.5	1.0	-48.5	-13.0	-35.5
	7630.00	-12.6	H	3.0	35.8	1.0	-47.3	-13.0	-34.3

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20514							
Date:		4/23/2015							
Test Engineer:		Angel Escamilla							
Configuration:		X-pos EUT, Ac Charger, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 25 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1855									
Band	3710.00	-21.4	V	3.0	35.9	1.0	-56.2	-13.0	-43.2
	5565.00	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9
LTE25	7420.00	-13.7	V	3.0	35.7	1.0	-48.4	-13.0	-35.4
	3710.00	-20.1	H	3.0	35.9	1.0	-55.0	-13.0	-42.0
	5565.00	-14.0	H	3.0	35.5	1.0	-48.5	-13.0	-35.5
10MHz	7420.00	-13.4	H	3.0	35.7	1.0	-48.1	-13.0	-35.1
Mid Ch, 1882.5									
16QAM	3765.00	-21.4	V	3.0	35.8	1.0	-56.3	-13.0	-43.3
	5647.50	-16.7	V	3.0	35.5	1.0	-51.2	-13.0	-38.2
	7530.00	-10.9	V	3.0	35.7	1.0	-45.7	-13.0	-32.7
	3765.00	-21.2	H	3.0	35.8	1.0	-56.1	-13.0	-43.1
	5647.50	-16.5	H	3.0	35.5	1.0	-51.0	-13.0	-38.0
	7530.00	-13.2	H	3.0	35.7	1.0	-48.0	-13.0	-35.0
High Ch, 1910									
	3820.00	-20.8	V	3.0	35.8	1.0	-55.6	-13.0	-42.6
	5730.00	-15.7	V	3.0	35.5	1.0	-50.2	-13.0	-37.2
	7640.00	-10.6	V	3.0	35.8	1.0	-45.4	-13.0	-32.4
	3820.00	-20.8	H	3.0	35.8	1.0	-55.6	-13.0	-42.6
	5730.00	-16.6	H	3.0	35.5	1.0	-51.1	-13.0	-38.1
	7640.00	-12.2	H	3.0	35.8	1.0	-46.9	-13.0	-33.9

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/23/2015								
Test Engineer:		Angel Escamilla								
Configuration:		X-pos EUT, Ac Charger, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 25 Harmonics, 10MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1855									
Band	3710.00	-21.1	V	3.0	35.9	1.0	-56.0	-13.0	-43.0	
	5565.00	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
LTE25	7420.00	-13.6	V	3.0	35.7	1.0	-48.3	-13.0	-35.3	
	3710.00	-19.5	H	3.0	35.9	1.0	-54.3	-13.0	-41.3	
	5565.00	-12.7	H	3.0	35.5	1.0	-47.2	-13.0	-34.2	
10MHz	7420.00	-12.3	H	3.0	35.7	1.0	-47.1	-13.0	-34.1	
	Mid Ch, 1882.5									
QPSK	3765.00	-21.3	V	3.0	35.8	1.0	-56.2	-13.0	-43.2	
	5647.50	-17.0	V	3.0	35.5	1.0	-51.5	-13.0	-38.5	
	7530.00	-10.6	V	3.0	35.7	1.0	-45.3	-13.0	-32.3	
	3765.00	-20.4	H	3.0	35.8	1.0	-55.2	-13.0	-42.2	
	5647.50	-16.6	H	3.0	35.5	1.0	-51.1	-13.0	-38.1	
	7530.00	-13.4	H	3.0	35.7	1.0	-48.1	-13.0	-35.1	
	High Ch, 1910									
	3820.00	-20.4	V	3.0	35.8	1.0	-55.2	-13.0	-42.2	
	5730.00	-16.4	V	3.0	35.5	1.0	-50.9	-13.0	-37.9	
	7640.00	-11.3	V	3.0	35.8	1.0	-46.1	-13.0	-33.1	
	3820.00	-21.0	H	3.0	35.8	1.0	-55.8	-13.0	-42.8	
	5730.00	-15.7	H	3.0	35.5	1.0	-50.2	-13.0	-37.2	
	7640.00	-12.8	H	3.0	35.8	1.0	-47.6	-13.0	-34.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/23/2015								
Test Engineer:		Angel Escamilla								
Configuration:		X-pos EUT, Ac Charger, Headset								
Location:		Chamber C								
Mode:		LTE_16QAM Band 25 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1852.5									
	3705.00	-21.1	V	3.0	35.9	1.0	-55.9	-13.0	-42.9	
	5557.50	-16.9	V	3.0	35.5	1.0	-51.4	-13.0	-38.4	
LTE25	7410.00	-13.6	V	3.0	35.7	1.0	-48.3	-13.0	-35.3	
	3705.00	-18.4	H	3.0	35.9	1.0	-53.2	-13.0	-40.2	
	5557.50	-15.6	H	3.0	35.5	1.0	-50.1	-13.0	-37.1	
5MHz	7410.00	-13.2	H	3.0	35.7	1.0	-48.0	-13.0	-35.0	
	Mid Ch, 1882.5									
	3765.00	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
16QAM	5647.50	-17.2	V	3.0	35.5	1.0	-51.7	-13.0	-38.7	
	7530.00	-11.5	V	3.0	35.7	1.0	-46.3	-13.0	-33.3	
	3765.00	-21.7	H	3.0	35.8	1.0	-56.5	-13.0	-43.5	
	5647.50	-17.0	H	3.0	35.5	1.0	-51.5	-13.0	-38.5	
	7530.00	-12.9	H	3.0	35.7	1.0	-47.6	-13.0	-34.6	
	High Ch, 1912.5									
	3825.00	-18.3	V	3.0	35.8	1.0	-53.0	-13.0	-40.0	
	5737.50	-15.6	V	3.0	35.5	1.0	-50.1	-13.0	-37.1	
	7650.00	-10.1	V	3.0	35.8	1.0	-44.9	-13.0	-31.9	
	3825.00	-21.2	H	3.0	35.8	1.0	-55.9	-13.0	-42.9	
	5737.50	-14.4	H	3.0	35.5	1.0	-48.9	-13.0	-35.9	
	7650.00	-13.0	H	3.0	35.8	1.0	-47.7	-13.0	-34.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20514							
Date:		4/23/2015							
Test Engineer:		Angel Escamilla							
Configuration:		X-pos EUT, Ac Charger, Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 25 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1852.5									
Band	3705.00	-20.7	V	3.0	35.9	1.0	-55.5	-13.0	-42.5
	5557.50	-16.8	V	3.0	35.5	1.0	-51.3	-13.0	-38.3
LTE25	7410.00	-13.9	V	3.0	35.7	1.0	-48.6	-13.0	-35.6
	3705.00	-18.5	H	3.0	35.9	1.0	-53.3	-13.0	-40.3
	5557.50	-14.6	H	3.0	35.5	1.0	-49.0	-13.0	-36.0
5MHz	7410.00	-12.6	H	3.0	35.7	1.0	-47.3	-13.0	-34.3
Mid Ch, 1882.5									
QPSK	3765.00	-20.4	V	3.0	35.8	1.0	-55.2	-13.0	-42.2
	5647.50	-16.8	V	3.0	35.5	1.0	-51.3	-13.0	-38.3
	7530.00	-12.5	V	3.0	35.7	1.0	-47.2	-13.0	-34.2
	3765.00	-20.6	H	3.0	35.8	1.0	-55.5	-13.0	-42.5
	5647.50	-17.1	H	3.0	35.5	1.0	-51.6	-13.0	-38.6
	7530.00	-13.0	H	3.0	35.7	1.0	-47.7	-13.0	-34.7
High Ch, 1912.5									
	3825.00	-18.6	V	3.0	35.8	1.0	-53.4	-13.0	-40.4
	5737.50	-14.0	V	3.0	35.5	1.0	-48.5	-13.0	-35.5
	7650.00	-14.8	V	3.0	35.8	1.0	-49.6	-13.0	-36.6
	3825.00	-20.3	H	3.0	35.8	1.0	-55.1	-13.0	-42.1
	5737.50	-14.7	H	3.0	35.5	1.0	-49.2	-13.0	-36.2
	7650.00	-11.0	H	3.0	35.8	1.0	-45.8	-13.0	-32.8

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20514							
Date:		4/23/2015							
Test Engineer:		Angel Escamilla							
Configuration:		X-pos EUT, Ac Charger, Headset							
Location:		Chamber C							
Mode:		LTE_16QAM Band 25 Harmonics, 3MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.5									
Band	3703.00	-19.7	V	3.0	35.9	1.0	-54.5	-13.0	-41.5
	5554.50	-15.9	V	3.0	35.5	1.0	-50.3	-13.0	-37.3
LTE25	7406.00	-13.6	V	3.0	35.7	1.0	-48.3	-13.0	-35.3
	3703.00	-14.9	H	3.0	35.9	1.0	-49.7	-13.0	-36.7
	5554.50	-16.6	H	3.0	35.5	1.0	-51.1	-13.0	-38.1
3MHz	7406.00	-12.9	H	3.0	35.7	1.0	-47.6	-13.0	-34.6
Mid Ch, 1882.5									
16QAM	3765.00	-20.7	V	3.0	35.8	1.0	-55.5	-13.0	-42.5
	5647.50	-17.1	V	3.0	35.5	1.0	-51.6	-13.0	-38.6
	7530.00	-13.5	V	3.0	35.7	1.0	-48.3	-13.0	-35.3
	3765.00	-21.7	H	3.0	35.8	1.0	-56.6	-13.0	-43.6
	5647.50	-17.1	H	3.0	35.5	1.0	-51.6	-13.0	-38.6
	7530.00	-12.7	H	3.0	35.7	1.0	-47.5	-13.0	-34.5
High Ch, 1913.5									
	3827.00	-19.7	V	3.0	35.8	1.0	-54.5	-13.0	-41.5
	5740.50	-16.4	V	3.0	35.5	1.0	-50.9	-13.0	-37.9
	7654.00	-11.4	V	3.0	35.8	1.0	-46.2	-13.0	-33.2
	3827.00	-20.3	H	3.0	35.8	1.0	-55.0	-13.0	-42.0
	5740.50	-16.1	H	3.0	35.5	1.0	-50.6	-13.0	-37.6
	7654.00	-11.6	H	3.0	35.8	1.0	-46.4	-13.0	-33.4

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/23/2015								
Test Engineer:		Angel Escamilla								
Configuration:		X-pos EUT, Ac Charger, Headset								
Location:		Chamber C								
Mode:		LTE_QPSK Band 25 Harmonics, 3MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1851.5									
Band	3703.00	-18.8	V	3.0	35.9	1.0	-53.7	-13.0	-40.7	
	5554.50	-16.4	V	3.0	35.5	1.0	-50.8	-13.0	-37.8	
LTE25	7406.00	-12.8	V	3.0	35.7	1.0	-47.6	-13.0	-34.6	
	3703.00	-16.1	H	3.0	35.9	1.0	-50.9	-13.0	-37.9	
	5554.50	-17.0	H	3.0	35.5	1.0	-51.5	-13.0	-38.5	
3MHz	7406.00	-13.4	H	3.0	35.7	1.0	-48.1	-13.0	-35.1	
	Mid Ch, 1882.5									
	3765.00	-20.3	V	3.0	35.8	1.0	-55.1	-13.0	-42.1	
QPSK	5647.50	-17.2	V	3.0	35.5	1.0	-51.7	-13.0	-38.7	
	7530.00	-13.1	V	3.0	35.7	1.0	-47.8	-13.0	-34.8	
	3765.00	-21.1	H	3.0	35.8	1.0	-55.9	-13.0	-42.9	
	5647.50	-16.7	H	3.0	35.5	1.0	-51.2	-13.0	-38.2	
	7530.00	-12.5	H	3.0	35.7	1.0	-47.3	-13.0	-34.3	
	High Ch, 1913.5									
	3827.00	-18.3	V	3.0	35.8	1.0	-53.1	-13.0	-40.1	
	5740.50	-15.0	V	3.0	35.5	1.0	-49.5	-13.0	-36.5	
	7654.00	-11.3	V	3.0	35.8	1.0	-46.0	-13.0	-33.0	
	3827.00	-20.7	H	3.0	35.8	1.0	-55.5	-13.0	-42.5	
	5740.50	-14.9	H	3.0	35.5	1.0	-49.4	-13.0	-36.4	
	7654.00	-12.8	H	3.0	35.8	1.0	-47.5	-13.0	-34.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG									
Project #:		15I20514									
Date:		4/23/2015									
Test Engineer:		Angel Escamilla									
Configuration:		X-pos EUT, Ac Charger, Headset									
Location:		Chamber C									
Mode:		LTE_16QAM Band 25 Harmonics, 1.4MHz Bandwidth									
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
1.4MHz 16QAM	Low Ch, 1850.7										
	LTE25	3701.40	-21.1	V	3.0	35.9	1.0	-55.9	-13.0	-42.9	
		5552.10	-15.4	V	3.0	35.5	1.0	-49.8	-13.0	-36.8	
		7402.80	-14.2	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
		3701.40	-17.9	H	3.0	35.9	1.0	-52.8	-13.0	-39.8	
		5552.10	-14.5	H	3.0	35.5	1.0	-49.0	-13.0	-36.0	
		7402.80	-11.2	H	3.0	35.7	1.0	-45.9	-13.0	-32.9	
		Mid Ch, 1882.5									
		3765.00	-21.5	V	3.0	35.8	1.0	-44.7	-13.0	-31.7	
		5647.50	-16.1	V	3.0	35.5	1.0	-50.6	-13.0	-37.6	
		7530.00	-12.7	V	3.0	35.7	1.0	-47.4	-13.0	-34.4	
		3765.00	-21.5	H	3.0	35.8	1.0	-56.3	-13.0	-43.3	
		5647.50	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
		7530.00	-10.6	H	3.0	35.7	1.0	-45.4	-13.0	-32.4	
		High Ch, 1914.3									
		3828.60	-16.6	V	3.0	35.8	1.0	-51.4	-13.0	-38.4	
		5742.90	-12.2	V	3.0	35.5	1.0	-46.7	-13.0	-33.7	
		7657.20	-12.0	V	3.0	35.8	1.0	-46.8	-13.0	-33.8	
	3828.60	-20.2	H	3.0	35.8	1.0	-55.0	-13.0	-42.0		
	5742.90	-16.4	H	3.0	35.5	1.0	-50.9	-13.0	-37.9		
	7657.20	-11.0	H	3.0	35.8	1.0	-45.8	-13.0	-32.8		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20514							
Date:		4/23/2015							
Test Engineer:		Angel Escamilla							
Configuration:		X-pos EUT, Ac Charger, Headset							
Location:		Chamber C							
Mode:		LTE_QPSK Band 25 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.7									
Band	3701.40	-20.8	V	3.0	35.9	1.0	-55.7	-13.0	-42.7
	5552.10	-17.1	V	3.0	35.5	1.0	-51.6	-13.0	-38.6
LTE25	7402.80	-14.0	V	3.0	35.7	1.0	-48.7	-13.0	-35.7
	3701.40	-17.4	H	3.0	35.9	1.0	-52.2	-13.0	-39.2
	5552.10	-15.1	H	3.0	35.5	1.0	-49.5	-13.0	-36.5
1.4MHz	7402.80	-11.0	H	3.0	35.7	1.0	-45.7	-13.0	-32.7
Mid Ch, 1882.5									
QPSK	3765.00	-19.8	V	3.0	35.8	1.0	-54.6	-13.0	-41.6
	5647.50	-17.3	V	3.0	35.5	1.0	-51.8	-13.0	-38.8
	7530.00	-14.3	V	3.0	35.7	1.0	-49.0	-13.0	-36.0
	3765.00	-19.9	H	3.0	35.8	1.0	-54.7	-13.0	-41.7
	5647.50	-13.3	H	3.0	35.5	1.0	-47.8	-13.0	-34.8
	7530.00	-12.1	H	3.0	35.7	1.0	-46.9	-13.0	-33.9
High Ch, 1914.3									
	3828.60	-16.2	V	3.0	35.8	1.0	-50.9	-13.0	-37.9
	5742.90	-12.5	V	3.0	35.5	1.0	-47.0	-13.0	-34.0
	7657.20	-12.6	V	3.0	35.8	1.0	-47.3	-13.0	-34.3
	3828.60	-19.9	H	3.0	35.8	1.0	-54.6	-13.0	-41.6
	5742.90	-16.8	H	3.0	35.5	1.0	-51.3	-13.0	-38.3
	7657.20	-12.3	H	3.0	35.8	1.0	-47.1	-13.0	-34.1

LTE Band 26

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20514							
Date:		4/27/2015							
Test Engineer:		D. Mun							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber F							
Mode:		LTE_16QAM Band 26 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE26									
15MHz									
16QAM									
Low Ch, 831.5									
1643.00	-27.6	V	3.0	37.0	1.0	-63.7	-13.0	-50.7	
2464.50	-24.0	V	3.0	36.4	1.0	-59.4	-13.0	-46.4	
3286.00	111.3	V	3.0	36.2	1.0	76.2	-13.0	89.2	
1643.00	-29.1	H	3.0	37.0	1.0	-65.2	-13.0	-52.2	
2464.50	-24.8	H	3.0	36.4	1.0	-60.2	-13.0	-47.2	
3286.00	-24.4	H	3.0	36.2	1.0	-59.6	-13.0	-46.6	
Mid Ch, 836.5									
1663.00	-28.4	V	3.0	37.0	1.0	-64.4	-13.0	-51.4	
2494.50	-21.9	V	3.0	36.4	1.0	-57.3	-13.0	-44.3	
3326.00	-22.8	V	3.0	36.1	1.0	-58.0	-13.0	-45.0	
1663.00	-29.0	H	3.0	37.0	1.0	-65.0	-13.0	-52.0	
2494.50	-23.5	H	3.0	36.4	1.0	-58.9	-13.0	-45.9	
3326.00	-22.9	H	3.0	36.1	1.0	-58.0	-13.0	-45.0	
High Ch, 841.5									
1683.00	-27.6	V	3.0	37.0	1.0	-63.6	-13.0	-50.6	
2524.50	-22.4	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
3366.00	-22.3	V	3.0	36.1	1.0	-57.4	-13.0	-44.4	
1683.00	-27.8	H	3.0	37.0	1.0	-63.8	-13.0	-50.8	
2524.50	-25.7	H	3.0	36.4	1.0	-61.1	-13.0	-48.1	
3366.00	-24.0	H	3.0	36.1	1.0	-59.1	-13.0	-46.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20514								
Date:		4/27/2015								
Test Engineer:		D. Mun								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber F								
Mode:		LTE_QPSK Band 26 Harmonics, 15MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 831.5									
	1643.00	-28.8	V	3.0	37.0	1.0	-64.8	-13.0	-51.8	
LTE26	2464.50	-22.2	V	3.0	36.4	1.0	-57.6	-13.0	-44.6	
	3286.00	-23.1	V	3.0	36.2	1.0	-58.3	-13.0	-45.3	
15MHz	1643.00	-28.3	H	3.0	37.0	1.0	-64.4	-13.0	-51.4	
	2464.50	-24.8	H	3.0	36.4	1.0	-60.2	-13.0	-47.2	
QPSK	3286.00	-23.3	H	3.0	36.2	1.0	-58.4	-13.0	-45.4	
	Mid Ch, 836.5									
	1663.00	-28.2	V	3.0	37.0	1.0	-64.2	-13.0	-51.2	
	2494.50	-22.0	V	3.0	36.4	1.0	-57.5	-13.0	-44.5	
	3326.00	-22.5	V	3.0	36.1	1.0	-57.7	-13.0	-44.7	
	1663.00	-28.8	H	3.0	37.0	1.0	-64.8	-13.0	-51.8	
	2494.50	-24.3	H	3.0	36.4	1.0	-59.7	-13.0	-46.7	
	3326.00	-23.2	H	3.0	36.1	1.0	-58.4	-13.0	-45.4	
	High Ch, 841.5									
	1683.00	-28.4	V	3.0	37.0	1.0	-64.3	-13.0	-51.3	
	2524.50	-22.1	V	3.0	36.4	1.0	-57.5	-13.0	-44.5	
	3366.00	-23.8	V	3.0	36.1	1.0	-58.9	-13.0	-45.9	
	1683.00	-28.9	H	3.0	37.0	1.0	-64.9	-13.0	-51.9	
	2524.50	-24.3	H	3.0	36.4	1.0	-59.7	-13.0	-46.7	
	3366.00	-23.3	H	3.0	36.1	1.0	-58.4	-13.0	-45.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company: LG Electronics Project #: 15I20514 Date: 4/27/2015 Test Engineer: D. Mun Configuration: EUT/ AC Charger/ Headset Location: Chamber F Mode: LTE_16QAM Band 26 Harmonics, 10MHz Bandwidth										
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 819									
	1638.00	-28.7	V	3.0	37.0	1.0	-64.7	-13.0	-51.7	
LTE26	2457.00	-22.8	V	3.0	36.4	1.0	-58.2	-13.0	-45.2	
	3276.00	-23.0	V	3.0	36.2	1.0	-58.2	-13.0	-45.2	
10MHz	1638.00	-28.4	H	3.0	37.0	1.0	-64.5	-13.0	-51.5	
	2457.00	-25.5	H	3.0	36.4	1.0	-60.9	-13.0	-47.9	
	3276.00	-23.0	H	3.0	36.2	1.0	-58.1	-13.0	-45.1	
16QAM	Mid Ch, 831.5									
	1663.00	-28.1	V	3.0	37.0	1.0	-64.1	-13.0	-51.1	
	2494.50	-21.6	V	3.0	36.4	1.0	-57.1	-13.0	-44.1	
	3326.00	-22.2	V	3.0	36.1	1.0	-57.3	-13.0	-44.3	
	1663.00	-28.1	H	3.0	37.0	1.0	-64.1	-13.0	-51.1	
	2494.50	-23.5	H	3.0	36.4	1.0	-58.9	-13.0	-45.9	
	3326.00	-22.8	H	3.0	36.1	1.0	-58.0	-13.0	-45.0	
	High Ch, 844									
	1688.00	-28.3	V	3.0	37.0	1.0	-64.2	-13.0	-51.2	
	2532.00	-21.3	V	3.0	36.4	1.0	-56.7	-13.0	-43.7	
	3376.00	-22.8	V	3.0	36.1	1.0	-57.9	-13.0	-44.9	
	1688.00	-28.1	H	3.0	37.0	1.0	-64.1	-13.0	-51.1	
	2532.00	-23.9	H	3.0	36.4	1.0	-59.3	-13.0	-46.3	
	3376.00	-23.2	H	3.0	36.1	1.0	-58.3	-13.0	-45.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20514								
Date:		4/27/2015								
Test Engineer:		D. Mun								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber F								
Mode:		LTE_QPSK Band 26 Harmonics, 10MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 819									
	1638.00	-27.9	V	3.0	37.0	1.0	-64.0	-13.0	-51.0	
	2457.00	-24.2	V	3.0	36.4	1.0	-59.6	-13.0	-46.6	
LTE26	3276.00	-22.9	V	3.0	36.2	1.0	-58.1	-13.0	-45.1	
	1638.00	-28.5	H	3.0	37.0	1.0	-64.6	-13.0	-51.6	
	2457.00	-24.7	H	3.0	36.4	1.0	-60.1	-13.0	-47.1	
10MHz	3276.00	-23.0	H	3.0	36.2	1.0	-58.2	-13.0	-45.2	
	Mid Ch, 831.5									
	1663.00	-28.7	V	3.0	37.0	1.0	-64.7	-13.0	-51.7	
QPSK	2494.50	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
	3326.00	-22.8	V	3.0	36.1	1.0	-57.9	-13.0	-44.9	
	1663.00	-28.1	H	3.0	37.0	1.0	-64.1	-13.0	-51.1	
	2494.50	-22.4	H	3.0	36.4	1.0	-57.8	-13.0	-44.8	
	3326.00	-22.9	H	3.0	36.1	1.0	-58.1	-13.0	-45.1	
	High Ch, 844									
	1688.00	-28.5	V	3.0	37.0	1.0	-64.5	-13.0	-51.5	
	2532.00	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
	3376.00	-22.2	V	3.0	36.1	1.0	-57.2	-13.0	-44.2	
	1688.00	-27.7	H	3.0	37.0	1.0	-63.7	-13.0	-50.7	
	2532.00	-23.6	H	3.0	36.4	1.0	-59.0	-13.0	-46.0	
	3376.00	-22.5	H	3.0	36.1	1.0	-57.5	-13.0	-44.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20514							
Date:		4/27/2015							
Test Engineer:		D. Mun							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber F							
Mode:		LTE_16QAM Band 26 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 816.5									
Band	1633.00	-27.4	V	3.0	37.0	1.0	-63.4	-13.0	-50.4
	2449.50	-22.1	V	3.0	36.4	1.0	-57.6	-13.0	-44.6
LTE26	3266.00	-21.8	V	3.0	36.2	1.0	-57.0	-13.0	-44.0
	1633.00	-27.1	H	3.0	37.0	1.0	-63.2	-13.0	-50.2
	2449.50	-22.8	H	3.0	36.4	1.0	-58.2	-13.0	-45.2
5MHz	3266.00	-21.6	H	3.0	36.2	1.0	-56.8	-13.0	-43.8
Mid Ch, 831.5									
16QAM	1663.00	-27.0	V	3.0	37.0	1.0	-63.0	-13.0	-50.0
	2494.50	-20.5	V	3.0	36.4	1.0	-55.9	-13.0	-42.9
	3326.00	-22.0	V	3.0	36.1	1.0	-57.1	-13.0	-44.1
	1663.00	-27.4	H	3.0	37.0	1.0	-63.4	-13.0	-50.4
	2494.50	-22.3	H	3.0	36.4	1.0	-57.7	-13.0	-44.7
	3326.00	-21.8	H	3.0	36.1	1.0	-56.9	-13.0	-43.9
High Ch, 846.5									
	1693.00	-26.4	V	3.0	37.0	1.0	-62.3	-13.0	-49.3
	2539.50	-20.6	V	3.0	36.4	1.0	-56.0	-13.0	-43.0
	3386.00	-20.8	V	3.0	36.1	1.0	-55.9	-13.0	-42.9
	1693.00	-26.9	H	3.0	37.0	1.0	-62.9	-13.0	-49.9
	2539.50	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3
	3386.00	-21.8	H	3.0	36.1	1.0	-56.9	-13.0	-43.9

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20514								
Date:		4/27/2015								
Test Engineer:		D. Mun								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber F								
Mode:		LTE_QPSK Band 26 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 816.5									
	1633.00	-27.0	V	3.0	37.0	1.0	-63.0	-13.0	-50.0	
	2449.50	-21.3	V	3.0	36.4	1.0	-56.8	-13.0	-43.8	
LTE26	3266.00	-22.4	V	3.0	36.2	1.0	-57.5	-13.0	-44.5	
	1633.00	-27.2	H	3.0	37.0	1.0	-63.3	-13.0	-50.3	
	2449.50	-23.0	H	3.0	36.4	1.0	-58.5	-13.0	-45.5	
5MHz	3266.00	-22.0	H	3.0	36.2	1.0	-57.2	-13.0	-44.2	
	Mid Ch, 831.5									
QPSK	1663.00	-27.1	V	3.0	37.0	1.0	-63.1	-13.0	-50.1	
	2494.50	-20.9	V	3.0	36.4	1.0	-56.3	-13.0	-43.3	
	3326.00	-22.0	V	3.0	36.1	1.0	-57.1	-13.0	-44.1	
	1663.00	-27.4	H	3.0	37.0	1.0	-63.4	-13.0	-50.4	
	2494.50	-22.7	H	3.0	36.4	1.0	-58.1	-13.0	-45.1	
	3326.00	-21.8	H	3.0	36.1	1.0	-56.9	-13.0	-43.9	
	High Ch, 846.5									
	1693.00	-26.5	V	3.0	37.0	1.0	-62.5	-13.0	-49.5	
	2539.50	-21.1	V	3.0	36.4	1.0	-56.5	-13.0	-43.5	
	3386.00	-21.1	V	3.0	36.1	1.0	-56.2	-13.0	-43.2	
	1693.00	-26.9	H	3.0	37.0	1.0	-62.9	-13.0	-49.9	
	2539.50	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3	
	3386.00	-21.3	H	3.0	36.1	1.0	-56.4	-13.0	-43.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement												
Company:		LG Electronics										
Project #:		15I20514										
Date:		4/27/2015										
Test Engineer:		D. Mun										
Configuration:		EUT/ AC Charger/ Headset										
Location:		Chamber F										
Mode:		LTE_16QAM Band 26 Harmonics, 3MHz Bandwidth										
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Band	Low Ch, 815.5											
		1631.00	-27.0	V	3.0	37.0	1.0	-63.0	-13.0	-50.0		
		2446.50	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3		
	LTE26	3262.00	-22.1	V	3.0	36.2	1.0	-57.2	-13.0	-44.2		
		1631.00	-27.2	H	3.0	37.0	1.0	-63.2	-13.0	-50.2		
	3MHz	2446.50	-22.8	H	3.0	36.4	1.0	-58.2	-13.0	-45.2		
		3262.00	-21.0	H	3.0	36.2	1.0	-56.2	-13.0	-43.2		
	16QAM	Mid Ch, 831.5										
			1663.00	-27.0	V	3.0	37.0	1.0	-63.0	-13.0	-50.0	
			2494.50	-20.6	V	3.0	36.4	1.0	-56.0	-13.0	-43.0	
			3326.00	-22.0	V	3.0	36.1	1.0	-57.1	-13.0	-44.1	
			1663.00	-27.5	H	3.0	37.0	1.0	-63.6	-13.0	-50.6	
		2494.50	-22.9	H	3.0	36.4	1.0	-58.3	-13.0	-45.3		
	3326.00	-22.4	H	3.0	36.1	1.0	-57.5	-13.0	-44.5			
	High Ch, 847.5											
	1695.00	-26.3	V	3.0	37.0	1.0	-62.2	-13.0	-49.2			
	2542.50	-21.1	V	3.0	36.4	1.0	-56.5	-13.0	-43.5			
	3390.00	-21.4	V	3.0	36.1	1.0	-56.5	-13.0	-43.5			
	1695.00	-27.1	H	3.0	37.0	1.0	-63.1	-13.0	-50.1			
	2542.50	-22.4	H	3.0	36.4	1.0	-57.9	-13.0	-44.9			
	3390.00	-21.7	H	3.0	36.1	1.0	-56.8	-13.0	-43.8			

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20514								
Date:		4/27/2015								
Test Engineer:		D. Mun								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber F								
Mode:		LTE_QPSK Band 26 Harmonics, 3MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 815.5									
	1631.00	-26.5	V	3.0	37.0	1.0	-62.5	-13.0	-49.5	
	2446.50	-21.5	V	3.0	36.4	1.0	-56.9	-13.0	-43.9	
	3262.00	-21.7	V	3.0	36.2	1.0	-56.9	-13.0	-43.9	
	1631.00	-27.8	H	3.0	37.0	1.0	-63.8	-13.0	-50.8	
	2446.50	-23.3	H	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3MHz	3262.00	-22.0	H	3.0	36.2	1.0	-57.2	-13.0	-44.2	
QPSK	Mid Ch, 831.5									
	1663.00	-26.4	V	3.0	37.0	1.0	-62.4	-13.0	-49.4	
	2494.50	-20.7	V	3.0	36.4	1.0	-56.1	-13.0	-43.1	
	3326.00	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7	
	1663.00	-27.0	H	3.0	37.0	1.0	-63.0	-13.0	-50.0	
	2494.50	-22.2	H	3.0	36.4	1.0	-57.6	-13.0	-44.6	
	3326.00	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0	
	High Ch, 847.5									
	1695.00	-26.7	V	3.0	37.0	1.0	-62.6	-13.0	-49.6	
	2542.50	-20.8	V	3.0	36.4	1.0	-56.2	-13.0	-43.2	
	3390.00	-20.8	V	3.0	36.1	1.0	-55.9	-13.0	-42.9	
	1695.00	-26.4	H	3.0	37.0	1.0	-62.4	-13.0	-49.4	
	2542.50	-22.0	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	
	3390.00	-20.5	H	3.0	36.1	1.0	-55.6	-13.0	-42.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20514							
Date:		4/27/2015							
Test Engineer:		D. Mun							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber F							
Mode:		LTE_16QAM Band 26 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 814.7									
1629.40	-27.1	V	3.0	37.1	1.0	-63.2	-13.0	-50.2	
2444.10	-20.9	V	3.0	36.4	1.0	-56.3	-13.0	-43.3	
3258.80	-21.2	V	3.0	36.2	1.0	-56.4	-13.0	-43.4	
1629.40	-27.6	H	3.0	37.1	1.0	-63.7	-13.0	-50.7	
2444.10	-22.1	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	
3258.80	-22.5	H	3.0	36.2	1.0	-57.7	-13.0	-44.7	
Mid Ch, 831.5									
1663.00	-26.5	V	3.0	37.0	1.0	-62.5	-13.0	-49.5	
2494.50	-20.9	V	3.0	36.4	1.0	-56.3	-13.0	-43.3	
3326.00	-22.3	V	3.0	36.1	1.0	-57.4	-13.0	-44.4	
1663.00	-27.4	H	3.0	37.0	1.0	-63.4	-13.0	-50.4	
2494.50	-23.8	H	3.0	36.4	1.0	-59.2	-13.0	-46.2	
3326.00	-23.4	H	3.0	36.1	1.0	-58.5	-13.0	-45.5	
High Ch, 848.3									
1696.60	-26.5	V	3.0	37.0	1.0	-62.5	-13.0	-49.5	
2544.90	-22.4	V	3.0	36.4	1.0	-57.9	-13.0	-44.9	
3393.20	-20.5	V	3.0	36.1	1.0	-55.6	-13.0	-42.6	
1696.60	-27.3	H	3.0	37.0	1.0	-63.3	-13.0	-50.3	
2544.90	-22.6	H	3.0	36.4	1.0	-58.0	-13.0	-45.0	
3393.20	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20514								
Date:		4/27/2015								
Test Engineer:		D. Mun								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber F								
Mode:		LTE_QPSK Band 26 Harmonics, 1.4MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 814.7									
LTE26	1629.40	-27.0	V	3.0	37.1	1.0	-63.1	-13.0	-50.1	
	2444.10	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
	3258.80	-21.1	V	3.0	36.2	1.0	-56.3	-13.0	-43.3	
1.4MHz	1629.40	-26.7	H	3.0	37.1	1.0	-62.7	-13.0	-49.7	
	2444.10	-23.5	H	3.0	36.4	1.0	-59.0	-13.0	-46.0	
	3258.80	-21.9	H	3.0	36.2	1.0	-57.1	-13.0	-44.1	
QPSK	Mid Ch, 831.5									
	1663.00	-27.4	V	3.0	37.0	1.0	-63.4	-13.0	-50.4	
	2494.50	-25.1	V	3.0	36.4	1.0	-60.6	-13.0	-47.6	
	3326.00	-21.3	V	3.0	36.1	1.0	-56.4	-13.0	-43.4	
	1663.00	-26.1	H	3.0	37.0	1.0	-62.1	-13.0	-49.1	
	2494.50	-23.0	H	3.0	36.4	1.0	-58.4	-13.0	-45.4	
	3326.00	-20.9	H	3.0	36.1	1.0	-56.0	-13.0	-43.0	
	High Ch, 848.3									
	1696.60	-25.4	V	3.0	37.0	1.0	-61.4	-13.0	-48.4	
	2544.90	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	3393.20	-21.5	V	3.0	36.1	1.0	-56.6	-13.0	-43.6	
	1696.60	-26.7	H	3.0	37.0	1.0	-62.7	-13.0	-49.7	
	2544.90	-21.8	H	3.0	36.4	1.0	-57.2	-13.0	-44.2	
	3393.20	-22.0	H	3.0	36.1	1.0	-57.1	-13.0	-44.1	

LTE Band 41

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/7/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT , AC Adapter and Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 41 Harmonics, 20MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE41 20MHz 16QAM	Low Ch, 2506									
	5012.00	-18.3	V	3.0	35.5	1.0	-52.8	-25.0	-27.8	
	7518.00	-14.3	V	3.0	35.7	1.0	-49.0	-25.0	-24.0	
	10024.00	-11.7	V	3.0	36.0	1.0	-46.7	-25.0	-21.7	
	5012.00	-17.7	H	3.0	35.5	1.0	-52.2	-25.0	-27.2	
	7518.00	-13.8	H	3.0	35.7	1.0	-48.6	-25.0	-23.6	
	10024.00	-11.0	H	3.0	36.0	1.0	-46.0	-25.0	-21.0	
	Mid Ch, 2593									
	5186.00	-17.5	V	3.0	35.4	1.0	-51.9	-25.0	-26.9	
	7779.00	-12.4	V	3.0	35.8	1.0	-47.2	-25.0	-22.2	
	10372.00	-13.6	V	3.0	35.8	1.0	-48.4	-25.0	-23.4	
	5186.00	-16.3	H	3.0	35.4	1.0	-50.7	-25.0	-25.7	
	7779.00	-11.4	H	3.0	35.8	1.0	-46.2	-25.0	-21.2	
	10372.00	-13.2	H	3.0	35.8	1.0	-48.0	-25.0	-23.0	
	High Ch, 2680									
	5360.00	-14.2	V	3.0	35.4	1.0	-48.7	-25.0	-23.7	
	8040.00	-14.2	V	3.0	35.8	1.0	-49.0	-25.0	-24.0	
	10720.00	-12.3	V	3.0	35.7	1.0	-47.0	-25.0	-22.0	
5360.00	-13.8	H	3.0	35.4	1.0	-48.3	-25.0	-23.3		
8040.00	-13.4	H	3.0	35.8	1.0	-48.2	-25.0	-23.2		
10720.00	-12.2	H	3.0	35.7	1.0	-46.9	-25.0	-21.9		

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/7/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT , AC Adapter and Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 41 Harmonics, 20MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 2506									
LTE41	5012.00	-17.0	V	3.0	35.5	1.0	-51.5	-25.0	-26.5	
	7518.00	-14.6	V	3.0	35.7	1.0	-49.3	-25.0	-24.3	
	10024.00	-11.7	V	3.0	36.0	1.0	-46.7	-25.0	-21.7	
20MHz	5012.00	-18.0	H	3.0	35.5	1.0	-52.5	-25.0	-27.5	
	7518.00	-14.2	H	3.0	35.7	1.0	-48.9	-25.0	-23.9	
QPSK	10024.00	-10.9	H	3.0	36.0	1.0	-45.9	-25.0	-20.9	
	Mid Ch, 2593									
	5186.00	-17.6	V	3.0	35.4	1.0	-52.1	-25.0	-27.1	
	7779.00	-12.0	V	3.0	35.8	1.0	-46.7	-25.0	-21.7	
	10372.00	-13.4	V	3.0	35.8	1.0	-48.2	-25.0	-23.2	
	5186.00	-16.6	H	3.0	35.4	1.0	-51.0	-25.0	-26.0	
	7779.00	-11.5	H	3.0	35.8	1.0	-46.2	-25.0	-21.2	
	10372.00	-13.0	H	3.0	35.8	1.0	-47.9	-25.0	-22.9	
	High Ch, 2680									
	5360.00	-13.3	V	3.0	35.4	1.0	-47.8	-25.0	-22.8	
	8040.00	-14.3	V	3.0	35.8	1.0	-49.1	-25.0	-24.1	
	10720.00	-12.2	V	3.0	35.7	1.0	-46.9	-25.0	-21.9	
	5360.00	-13.9	H	3.0	35.4	1.0	-48.3	-25.0	-23.3	
	8040.00	-13.6	H	3.0	35.8	1.0	-48.4	-25.0	-23.4	
	10720.00	-12.2	H	3.0	35.7	1.0	-46.9	-25.0	-21.9	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/7/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT , AC Adapter and Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 41 Harmonics, 15MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 2503.5									
LTE41	5007.00	-18.4	V	3.0	35.5	1.0	-52.8	-25.0	-27.8	
15MHz	7510.50	-15.1	V	3.0	35.7	1.0	-49.8	-25.0	-24.8	
	10014.00	-11.0	V	3.0	36.0	1.0	-46.0	-25.0	-21.0	
16QAM	5007.00	-16.9	H	3.0	35.5	1.0	-51.4	-25.0	-26.4	
	7510.50	-14.0	H	3.0	35.7	1.0	-48.7	-25.0	-23.7	
	10014.00	-10.7	H	3.0	36.0	1.0	-45.8	-25.0	-20.8	
	Mid Ch, 2593									
	5186.00	-17.2	V	3.0	35.4	1.0	-51.6	-25.0	-26.6	
	7779.00	-11.6	V	3.0	35.8	1.0	-46.4	-25.0	-21.4	
	10372.00	-13.4	V	3.0	35.8	1.0	-48.2	-25.0	-23.2	
	5186.00	-17.1	H	3.0	35.4	1.0	-51.5	-25.0	-26.5	
	7779.00	-11.0	H	3.0	35.8	1.0	-45.8	-25.0	-20.8	
	10372.00	-13.2	H	3.0	35.8	1.0	-48.1	-25.0	-23.1	
	High Ch, 2682.5									
	5365.00	-13.7	V	3.0	35.4	1.0	-48.2	-25.0	-23.2	
	8047.50	-14.6	V	3.0	35.8	1.0	-49.4	-25.0	-24.4	
	10730.00	-12.2	V	3.0	35.7	1.0	-46.9	-25.0	-21.9	
	5365.00	-13.0	H	3.0	35.4	1.0	-47.5	-25.0	-22.5	
	8047.50	-13.6	H	3.0	35.8	1.0	-48.4	-25.0	-23.4	
	10730.00	-12.1	H	3.0	35.7	1.0	-46.8	-25.0	-21.8	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/7/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT , AC Adapter and Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 41 Harmonics, 15MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 2503.5									
LTE41	5007.00	-18.3	V	3.0	35.5	1.0	-52.7	-25.0	-27.7	
	7510.50	-15.8	V	3.0	35.7	1.0	-50.5	-25.0	-25.5	
15MHz	10014.00	-11.6	V	3.0	36.0	1.0	-46.6	-25.0	-21.6	
	5007.00	-18.5	H	3.0	35.5	1.0	-53.0	-25.0	-28.0	
QPSK	7510.50	-13.1	H	3.0	35.7	1.0	-47.8	-25.0	-22.8	
	10014.00	-11.2	H	3.0	36.0	1.0	-46.3	-25.0	-21.3	
	Mid Ch, 2593									
	5186.00	-17.2	V	3.0	35.4	1.0	-51.7	-25.0	-26.7	
	7779.00	-11.7	V	3.0	35.8	1.0	-46.5	-25.0	-21.5	
	10372.00	-13.8	V	3.0	35.8	1.0	-48.6	-25.0	-23.6	
	5186.00	-16.2	H	3.0	35.4	1.0	-50.6	-25.0	-25.6	
	7779.00	-11.1	H	3.0	35.8	1.0	-45.9	-25.0	-20.9	
	10372.00	-13.2	H	3.0	35.8	1.0	-48.0	-25.0	-23.0	
	High Ch, 2682.5									
	5365.00	-13.8	V	3.0	35.4	1.0	-48.2	-25.0	-23.2	
	8047.50	-14.3	V	3.0	35.8	1.0	-49.1	-25.0	-24.1	
	10730.00	-12.5	V	3.0	35.7	1.0	-47.2	-25.0	-22.2	
	5365.00	-13.0	H	3.0	35.4	1.0	-47.5	-25.0	-22.5	
	8047.50	-13.2	H	3.0	35.8	1.0	-48.0	-25.0	-23.0	
	10730.00	-11.9	H	3.0	35.7	1.0	-46.6	-25.0	-21.6	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/7/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT , AC Adapter and Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 41 Harmonics, 10MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE41	Low Ch, 2501									
	5002.00	-17.3	V	3.0	35.5	1.0	-51.8	-25.0	-26.8	
	7503.00	-14.9	V	3.0	35.7	1.0	-49.6	-25.0	-24.6	
10MHz	10004.00	-12.1	V	3.0	36.0	1.0	-47.1	-25.0	-22.1	
	5002.00	-17.3	H	3.0	35.5	1.0	-51.8	-25.0	-26.8	
	7503.00	-14.2	H	3.0	35.7	1.0	-49.0	-25.0	-24.0	
16QAM	10004.00	-11.1	H	3.0	36.0	1.0	-46.1	-25.0	-21.1	
	Mid Ch, 2593									
	5186.00	-17.2	V	3.0	35.4	1.0	-51.6	-25.0	-26.6	
	7779.00	-12.1	V	3.0	35.8	1.0	-46.9	-25.0	-21.9	
	10372.00	-14.1	V	3.0	35.8	1.0	-49.0	-25.0	-24.0	
	5186.00	-16.5	H	3.0	35.4	1.0	-51.0	-25.0	-26.0	
	7779.00	-10.8	H	3.0	35.8	1.0	-45.6	-25.0	-20.6	
	10372.00	-13.0	H	3.0	35.8	1.0	-47.9	-25.0	-22.9	
	High Ch, 2685									
	5370.00	-13.6	V	3.0	35.4	1.0	-48.0	-25.0	-23.0	
	8055.00	-14.6	V	3.0	35.8	1.0	-49.4	-25.0	-24.4	
	10740.00	-12.0	V	3.0	35.7	1.0	-46.7	-25.0	-21.7	
	5370.00	-13.7	H	3.0	35.4	1.0	-48.2	-25.0	-23.2	
	8055.00	-13.2	H	3.0	35.8	1.0	-48.0	-25.0	-23.0	
	10740.00	-12.0	H	3.0	35.7	1.0	-46.7	-25.0	-21.7	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/7/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT , AC Adapter and Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 41 Harmonics, 10MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2501										
LTE41	5002.00	-17.0	V	3.0	35.5	1.0	-51.5	-25.0	-26.5	
	7503.00	-15.0	V	3.0	35.7	1.0	-49.7	-25.0	-24.7	
10MHz	10004.00	-12.1	V	3.0	36.0	1.0	-47.1	-25.0	-22.1	
QPSK	5002.00	-18.3	H	3.0	35.5	1.0	-52.8	-25.0	-27.8	
	7503.00	-13.9	H	3.0	35.7	1.0	-48.6	-25.0	-23.6	
	10004.00	-11.8	H	3.0	36.0	1.0	-46.8	-25.0	-21.8	
Mid Ch, 2593										
	5186.00	-17.3	V	3.0	35.4	1.0	-51.7	-25.0	-26.7	
	7779.00	-12.4	V	3.0	35.8	1.0	-47.2	-25.0	-22.2	
	10372.00	-13.5	V	3.0	35.8	1.0	-48.3	-25.0	-23.3	
	5186.00	-16.5	H	3.0	35.4	1.0	-51.0	-25.0	-26.0	
	7779.00	-11.1	H	3.0	35.8	1.0	-45.9	-25.0	-20.9	
	10372.00	-13.4	H	3.0	35.8	1.0	-48.2	-25.0	-23.2	
High Ch, 2685										
	5370.00	-14.5	V	3.0	35.4	1.0	-49.0	-25.0	-24.0	
	8055.00	-13.6	V	3.0	35.8	1.0	-48.4	-25.0	-23.4	
	10740.00	-12.5	V	3.0	35.7	1.0	-47.1	-25.0	-22.1	
	5370.00	-13.2	H	3.0	35.4	1.0	-47.6	-25.0	-22.6	
	8055.00	-13.6	H	3.0	35.8	1.0	-48.5	-25.0	-23.5	
	10740.00	-11.9	H	3.0	35.7	1.0	-46.6	-25.0	-21.6	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/7/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT , AC Adapter and Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 41 Harmonics, 5MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 2498.5									
	4997.00	-14.9	V	3.0	35.5	1.0	49.4	-25.0	-24.4	
	7495.50	-14.9	V	3.0	35.7	1.0	49.7	-25.0	-24.7	
5MHz	9994.00	-13.6	V	3.0	36.0	1.0	48.6	-25.0	-23.6	
	4997.00	-16.1	H	3.0	35.5	1.0	50.6	-25.0	-25.6	
16QAM	7495.50	-15.0	H	3.0	35.7	1.0	49.8	-25.0	-24.8	
	9994.00	-12.8	H	3.0	36.0	1.0	47.8	-25.0	-22.8	
	Mid Ch, 2593									
	5186.00	-15.2	V	3.0	35.4	1.0	49.6	-25.0	-24.6	
	7779.00	-14.4	V	3.0	35.8	1.0	49.2	-25.0	-24.2	
	10372.00	-12.3	V	3.0	35.8	1.0	47.2	-25.0	-22.2	
	5186.00	-13.9	H	3.0	35.4	1.0	48.4	-25.0	-23.4	
	7779.00	-13.0	H	3.0	35.8	1.0	47.7	-25.0	-22.7	
	10372.00	-13.6	H	3.0	35.8	1.0	48.5	-25.0	-23.5	
	High Ch, 2687.5									
	5375.00	-14.6	V	3.0	35.4	1.0	49.0	-25.0	-24.0	
	8062.50	-15.2	V	3.0	35.8	1.0	50.0	-25.0	-25.0	
	10750.00	-12.2	V	3.0	35.7	1.0	46.9	-25.0	-21.9	
	5375.00	-14.2	H	3.0	35.4	1.0	48.7	-25.0	-23.7	
	8062.50	-13.5	H	3.0	35.8	1.0	48.3	-25.0	-23.3	
	10750.00	-11.9	H	3.0	35.7	1.0	46.6	-25.0	-21.6	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20514								
Date:		4/7/2015								
Test Engineer:		Jude Semana								
Configuration:		EUT , AC Adapter and Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 41 Harmonics, 5MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2498.5										
LTE41	4997.00	-14.9	V	3.0	35.5	1.0	-49.4	-25.0	-24.4	
	7495.50	-16.3	V	3.0	35.7	1.0	-51.0	-25.0	-26.0	
5MHz	9994.00	-13.7	V	3.0	36.0	1.0	-48.8	-25.0	-23.8	
	4997.00	-16.1	H	3.0	35.5	1.0	-50.6	-25.0	-25.6	
QPSK	7495.50	-13.8	H	3.0	35.7	1.0	-48.6	-25.0	-23.6	
	9994.00	-12.2	H	3.0	36.0	1.0	-47.2	-25.0	-22.2	
Mid Ch, 2593										
	5186.00	-14.6	V	3.0	35.4	1.0	-49.1	-25.0	-24.1	
	7779.00	-14.5	V	3.0	35.8	1.0	-49.2	-25.0	-24.2	
	10372.00	-12.5	V	3.0	35.8	1.0	-47.4	-25.0	-22.4	
	5186.00	-12.2	H	3.0	35.4	1.0	-46.6	-25.0	-21.6	
	7779.00	-11.5	H	3.0	35.8	1.0	-46.3	-25.0	-21.3	
	10372.00	-11.9	H	3.0	35.8	1.0	-46.8	-25.0	-21.8	
High Ch, 2687.5										
	5375.00	-14.4	V	3.0	35.4	1.0	-48.8	-25.0	-23.8	
	8062.50	-15.1	V	3.0	35.8	1.0	-49.9	-25.0	-24.9	
	10750.00	-13.3	V	3.0	35.7	1.0	-47.9	-25.0	-22.9	
	5375.00	-12.9	H	3.0	35.4	1.0	-47.4	-25.0	-22.4	
	8062.50	-14.2	H	3.0	35.8	1.0	-49.0	-25.0	-24.0	
	10750.00	-11.8	H	3.0	35.7	1.0	-46.5	-25.0	-21.5	