

LTE Band 41

Band LTE41 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I19834																																																																																															
	Date:		2/2/2015																																																																																															
	Test Engineer:		Kiya Kedida																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber B																																																																																															
	Mode:		LTE_16QAM Band 41 Fundamentals, 20MHz Bandwidth																																																																																															
	Test Equipment:																																																																																																	
	Receiving: Horn T1345, and Chamber B SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse																																																																																																	
<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>2506.00</td> <td>11.64</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>20.22</td> <td>33.0</td> <td>-12.8</td> <td></td> </tr> <tr> <td>2506.00</td> <td>16.26</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>24.84</td> <td>33.0</td> <td>-8.2</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>2593.00</td> <td>11.70</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>20.31</td> <td>33.0</td> <td>-12.7</td> <td></td> </tr> <tr> <td>2593.00</td> <td>16.80</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>25.41</td> <td>33.0</td> <td>-7.6</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>2680.00</td> <td>11.10</td> <td>V</td> <td>0.9</td> <td>9.7</td> <td>19.93</td> <td>33.0</td> <td>-13.1</td> <td></td> </tr> <tr> <td>2680.00</td> <td>16.20</td> <td>H</td> <td>0.9</td> <td>9.7</td> <td>25.03</td> <td>33.0</td> <td>-8.0</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									2506.00	11.64	V	0.9	9.5	20.22	33.0	-12.8		2506.00	16.26	H	0.9	9.5	24.84	33.0	-8.2		Mid Ch									2593.00	11.70	V	0.9	9.5	20.31	33.0	-12.7		2593.00	16.80	H	0.9	9.5	25.41	33.0	-7.6		High Ch									2680.00	11.10	V	0.9	9.7	19.93	33.0	-13.1		2680.00	16.20	H	0.9	9.7	25.03	33.0	-8.0	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
Low Ch																																																																																																		
2506.00	11.64	V	0.9	9.5	20.22	33.0	-12.8																																																																																											
2506.00	16.26	H	0.9	9.5	24.84	33.0	-8.2																																																																																											
Mid Ch																																																																																																		
2593.00	11.70	V	0.9	9.5	20.31	33.0	-12.7																																																																																											
2593.00	16.80	H	0.9	9.5	25.41	33.0	-7.6																																																																																											
High Ch																																																																																																		
2680.00	11.10	V	0.9	9.7	19.93	33.0	-13.1																																																																																											
2680.00	16.20	H	0.9	9.7	25.03	33.0	-8.0																																																																																											

Band

LTE41

20MHz

QPSK

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

LG

15I19834

2/2/2015

Kiya Kedida

EUT Only

Chamber B

LTE_QPSK Band 41 Fundamentals, 20MHz Bandwidth

Test Equipment:

Receiving: Horn T1345, and Chamber B SMA Cables

Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2506.00	12.42	V	0.9	9.5	21.00	33.0	-12.0	
2506.00	17.06	H	0.9	9.5	25.64	33.0	-7.4	
Mid Ch								
2593.00	12.60	V	0.9	9.5	21.21	33.0	-11.8	
2593.00	17.94	H	0.9	9.5	26.55	33.0	-6.5	
High Ch								
2680.00	12.01	V	0.9	9.7	20.84	33.0	-12.2	
2680.00	17.31	H	0.9	9.7	26.14	33.0	-6.9	

Band

LTE41

15MHz

16QAM

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

LG

15I19834

2/2/2015

Kiya Kedida

EUT Only

Chamber B

LTE_16QAM Band 41 Fundamentals, 15MHz Bandwidth

Test Equipment:

Receiving: Horn T1345, and Chamber B SMA Cables

Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2503.50	10.97	V	0.9	9.5	19.55	33.0	-13.5	
2503.50	15.76	H	0.9	9.5	24.34	33.0	-8.7	
Mid Ch								
2593.00	11.70	V	0.9	9.5	20.31	33.0	-12.7	
2593.00	17.86	H	0.9	9.5	26.47	33.0	-6.5	
High Ch								
2682.50	11.20	V	0.9	9.7	20.03	33.0	-13.0	
2682.50	16.50	H	0.9	9.7	25.33	33.0	-7.7	

Band LTE41 15MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Company: LG Project #: 15I19834 Date: 2/2/2015 Test Engineer: Kiya Kedida Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 41 Fundamentals, 15MHz Bandwidth Test Equipment: Receiving: Horn T1345, and Chamber B SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	2503.50	11.57	V	0.9	9.5	20.15	33.0	-12.9	
	2503.50	16.79	H	0.9	9.5	25.37	33.0	-7.6	
	Mid Ch								
	2593.00	12.44	V	0.9	9.5	21.05	33.0	-12.0	
	2593.00	17.00	H	0.9	9.5	25.61	33.0	-7.4	
	High Ch								
	2682.50	12.26	V	0.9	9.7	21.09	33.0	-11.9	
	2682.50	16.73	H	0.9	9.7	25.56	33.0	-7.4	

Band LTE41 10MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Company: LG Project #: 15I19834 Date: 2/2/2015 Test Engineer: Kiya Kedida Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 41 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Horn T1345, and Chamber B SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Low Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2501.00</td> <td>11.00</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>19.58</td> <td>33.0</td> <td>-13.4</td> <td></td> </tr> <tr> <td>2501.00</td> <td>15.76</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>24.34</td> <td>33.0</td> <td>-8.7</td> <td></td> </tr> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2593.00</td> <td>11.90</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>20.51</td> <td>33.0</td> <td>-12.5</td> <td></td> </tr> <tr> <td>2593.00</td> <td>16.80</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>25.41</td> <td>33.0</td> <td>-7.6</td> <td></td> </tr> <tr> <td>High Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2685.00</td> <td>10.90</td> <td>V</td> <td>0.9</td> <td>9.7</td> <td>19.74</td> <td>33.0</td> <td>-13.3</td> <td></td> </tr> <tr> <td>2685.00</td> <td>15.40</td> <td>H</td> <td>0.9</td> <td>9.7</td> <td>24.24</td> <td>33.0</td> <td>-8.8</td> <td></td> </tr> </tbody> </table>	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									2501.00	11.00	V	0.9	9.5	19.58	33.0	-13.4		2501.00	15.76	H	0.9	9.5	24.34	33.0	-8.7		Mid Ch									2593.00	11.90	V	0.9	9.5	20.51	33.0	-12.5		2593.00	16.80	H	0.9	9.5	25.41	33.0	-7.6		High Ch									2685.00	10.90	V	0.9	9.7	19.74	33.0	-13.3		2685.00	15.40	H	0.9	9.7	24.24	33.0	-8.8	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																			
Low Ch																																																																																											
2501.00	11.00	V	0.9	9.5	19.58	33.0	-13.4																																																																																				
2501.00	15.76	H	0.9	9.5	24.34	33.0	-8.7																																																																																				
Mid Ch																																																																																											
2593.00	11.90	V	0.9	9.5	20.51	33.0	-12.5																																																																																				
2593.00	16.80	H	0.9	9.5	25.41	33.0	-7.6																																																																																				
High Ch																																																																																											
2685.00	10.90	V	0.9	9.7	19.74	33.0	-13.3																																																																																				
2685.00	15.40	H	0.9	9.7	24.24	33.0	-8.8																																																																																				

Band

LTE41

10MHz

QPSK

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Test Equipment:

Receiving: Horn T1345, and Chamber B SMA Cables

Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
2501.00	11.85	V	0.9	9.5	20.43	33.0	-12.6	
2501.00	16.44	H	0.9	9.5	25.02	33.0	-8.0	
Mid Ch								
2593.00	12.99	V	0.9	9.5	21.60	33.0	-11.4	
2593.00	17.70	H	0.9	9.5	26.31	33.0	-6.7	
High Ch								
2685.00	11.82	V	0.9	9.7	20.66	33.0	-12.3	
2685.00	16.20	H	0.9	9.7	25.04	33.0	-8.0	

Band LTE41 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Company: LG Project #: 15I19834 Date: 2/2/2015 Test Engineer: Kiya Kedida Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 41 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Horn T1345, and Chamber B SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	2498.50	10.80	V	0.9	9.5	19.37	33.0	-13.6	
	2498.50	15.41	H	0.9	9.5	23.98	33.0	-9.0	
	Mid Ch								
	2593.00	12.20	V	0.9	9.5	20.81	33.0	-12.2	
	2593.00	16.14	H	0.9	9.5	24.75	33.0	-8.3	
	High Ch								
	2687.50	10.40	V	0.9	9.7	19.25	33.0	-13.8	
	2687.50	15.30	H	0.9	9.7	24.15	33.0	-8.9	

Band LTE41 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Company: LG Project #: 15I19834 Date: 2/2/2015 Test Engineer: Kiya Kedida Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 41 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Horn T1345, and Chamber B SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse							
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
	Low Ch							
	2498.50	11.64	V	0.9	9.5	20.21	33.0	-12.8
	2498.50	16.21	H	0.9	9.5	24.78	33.0	-8.2
	Mid Ch							
	2593.00	11.50	V	0.9	9.5	20.11	33.0	-12.9
	2593.00	17.06	H	0.9	9.5	25.67	33.0	-7.3
	High Ch							
	2687.50	11.29	V	0.9	9.7	20.14	33.0	-12.9
	2687.50	15.95	H	0.9	9.7	24.80	33.0	-8.2

12.2. ADDITIONAL TESTS (Phone with Smart Case and Stylus Pen)

12.2.1. RADIATED POWER (ERP & EIRP) WITH SMART COVER

12.2.1.1. CDMA (MID CHANNEL ONLY)

Band BC1 1xRTT	High Frequency Substitution Measurement UL Fremont Radiated Chamber F Company: LG Project #: 15I19834 Date: 02/13/15 Test Engineer: R.Z Configuration: EUT w/HS+AC Mode: CDMA 1XRTT 1900MHz Test Equipment: Receiving: Horn T120 and Chamber F SMA Cables Substitution: Horn T60 Substitution, 8ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	GHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Mid Ch								
	1.880	13.6	V	0.98	8.53	21.15	33.0	-11.9	
	1.880	17.4	H	0.98	8.68	25.10	33.0	-7.9	
	Rev. 2.13.15								

Band BC0 1xRTT	High Frequency Substitution Measurement UL Fremont Radiated Chamber F Company: LG Project #: 15I19834 Date: 02/13/15 Test Engineer: R.Z Configuration: EUT w/HS+AC Mode: CDMA 1XRTT 850MHz Test Equipment: Receiving: Sunol T122, and Chamber F Cable Substitution: Dipole S/N: 00022117, 8ft SMA Cable										
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	EIRP	ERP Limit	EIRP Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)	
	Mid Ch										
	836.52	16.53	V	0.6	0.0	15.91	18.06	38.45	40.60	-22.5	
	836.52	21.56	H	0.6	0.0	20.94	23.09	38.45	40.60	-17.5	

Rev. 2.13.15

12.2.1.2. LTE (MID CHANNEL ONLY)

Band LTE41 10MHz QPSK	High Frequency Substitution Measurement UL Fremont Radiated Chamber F								
	Company: LG								
	Project #: 15I19834								
	Date: 2/12/2015								
	Test Engineer: R.Z								
	Configuration: EUT w/ HS+AC								
	Mode: LTE Band 41 QPSK 10MHz BW								
	Test Equipment: Receiving: Horn T120, and Chamber F SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA)								
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes
	Mid Ch								
2.593	15.9	V	1.16	9.63	24.39	33.0	-8.6		
2.593	15.4	H	1.16	9.69	23.91	33.0	-9.1		
Rev. 2.12.15									

Band LTE41 10MHz 16QAM	High Frequency Substitution Measurement UL Fremont Radiated Chamber F Company: LG Project #: 15I19834 Date: 2/12/2015 Test Engineer: R.Z Configuration: EUT w/ HS+AC Mode: LTE Band 41 16QAM 10MHz BW Test Equipment: Receiving: Horn T120, and Chamber F SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) <table border="1"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Margin EIRP (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2.593</td> <td>15.5</td> <td>V</td> <td>1.16</td> <td>9.63</td> <td>23.94</td> <td>33.0</td> <td>-9.1</td> <td></td> </tr> <tr> <td>2.593</td> <td>14.9</td> <td>H</td> <td>1.16</td> <td>9.69</td> <td>23.45</td> <td>33.0</td> <td>-9.5</td> <td></td> </tr> </tbody> </table> Rev. 2.12.15									f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes	Mid Ch									2.593	15.5	V	1.16	9.63	23.94	33.0	-9.1		2.593	14.9	H	1.16	9.69	23.45	33.0	-9.5	
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes																																				
	Mid Ch																																												
	2.593	15.5	V	1.16	9.63	23.94	33.0	-9.1																																					
	2.593	14.9	H	1.16	9.69	23.45	33.0	-9.5																																					

Band LTE12 10MHz QPSK	High Frequency Substitution Measurement UL Fremont Radiated Chamber F Company: LG Project #: 15I19834 Date: 2/12/2015 Test Engineer: R.Z. Configuration: EUT w/ HS+AC Mode: LTE Band 12 QPSK 10MHz BW Test Equipment: Receiving: Sunol T122, and Chamber F Cable Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) <table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>EIRP (dBm)</th> <th>ERP Limit (dBm)</th> <th>EIRP Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>707.50</td> <td>12.68</td> <td>V</td> <td>0.55</td> <td>0.0</td> <td>12.13</td> <td>14.28</td> <td>34.77</td> <td>36.99</td> <td>-22.7</td> <td></td> </tr> <tr> <td>707.50</td> <td>16.91</td> <td>H</td> <td>0.55</td> <td>0.0</td> <td>16.36</td> <td>18.51</td> <td>34.77</td> <td>36.99</td> <td>-18.5</td> <td></td> </tr> </tbody> </table> Rev. 2.12.15										f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes	Mid Ch											707.50	12.68	V	0.55	0.0	12.13	14.28	34.77	36.99	-22.7		707.50	16.91	H	0.55	0.0	16.36	18.51	34.77	36.99	-18.5	
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes																																											
	Mid Ch																																																					
	707.50	12.68	V	0.55	0.0	12.13	14.28	34.77	36.99	-22.7																																												
	707.50	16.91	H	0.55	0.0	16.36	18.51	34.77	36.99	-18.5																																												

Band LTE12 10MHz 16QAM	High Frequency Substitution Measurement UL Fremont Radiated Chamber E										
	Company: LG Project #: 15I19834 Date: 2/12/2015 Test Engineer: R.Z Configuration: EUT w/ HS+AC Mode: LTE Band 12 16QAM 10MHz BW										
	Test Equipment: Receiving: Sunol T122, and Chamber F Cable Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA)										
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes
	Mid Ch										
	707.50	10.06	V	0.55	0.0	9.51	11.66	34.77	36.99	-25.3	
	707.50	12.58	H	0.55	0.0	12.03	14.18	34.77	36.99	-22.8	
	Rev. 2.12.15										

Band LTE5 10MHz QPSK	High Frequency Substitution Measurement UL Fremont Radiated Chamber F Company: LG Project #: 15I19834 Date: 2/12/2015 Test Engineer: R.Z Configuration: EUT w/ HS+AC Mode: LTE Band 5 QPSK 10MHz BW Test Equipment: Receiving: Sunol T122, and Chamber F Cable Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) <table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>EIRP (dBm)</th> <th>ERP Limit (dBm)</th> <th>EIRP Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>836.50</td> <td>18.11</td> <td>V</td> <td>0.6</td> <td>0.0</td> <td>17.49</td> <td>19.64</td> <td>38.45</td> <td>40.60</td> <td>-21.0</td> <td></td> </tr> <tr> <td>836.50</td> <td>17.40</td> <td>H</td> <td>0.6</td> <td>0.0</td> <td>16.78</td> <td>18.93</td> <td>38.45</td> <td>40.60</td> <td>-21.7</td> <td></td> </tr> </tbody> </table> Rev. 2.12.15										f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes	Mid Ch											836.50	18.11	V	0.6	0.0	17.49	19.64	38.45	40.60	-21.0		836.50	17.40	H	0.6	0.0	16.78	18.93	38.45	40.60	-21.7	
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes																																											
	Mid Ch																																																					
	836.50	18.11	V	0.6	0.0	17.49	19.64	38.45	40.60	-21.0																																												
	836.50	17.40	H	0.6	0.0	16.78	18.93	38.45	40.60	-21.7																																												

Band LTE5 10MHz 16QAM	High Frequency Substitution Measurement UL Fremont Radiated Chamber F Company: LG Project #: 15I19834 Date: 2/12/2015 Test Engineer: R.Z Configuration: EUT w/ HS+AC Mode: LTE Band 5 16QAM 10MHz BW Test Equipment: Receiving: Sunol T122, and Chamber F Cable Substitution: Dipole S/N: 00022117, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) <table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>EIRP (dBm)</th> <th>ERP Limit (dBm)</th> <th>EIRP Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>836.50</td> <td>17.57</td> <td>V</td> <td>0.6</td> <td>0.0</td> <td>16.95</td> <td>19.10</td> <td>38.45</td> <td>40.60</td> <td>-21.5</td> <td></td> </tr> <tr> <td>836.50</td> <td>16.99</td> <td>H</td> <td>0.6</td> <td>0.0</td> <td>16.37</td> <td>18.52</td> <td>38.45</td> <td>40.60</td> <td>-22.1</td> <td></td> </tr> </tbody> </table> Rev. 2.12.15										f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes	Mid Ch											836.50	17.57	V	0.6	0.0	16.95	19.10	38.45	40.60	-21.5		836.50	16.99	H	0.6	0.0	16.37	18.52	38.45	40.60	-22.1	
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	EIRP (dBm)	ERP Limit (dBm)	EIRP Limit (dBm)	Margin (dB)	Notes																																											
	Mid Ch																																																					
	836.50	17.57	V	0.6	0.0	16.95	19.10	38.45	40.60	-21.5																																												
	836.50	16.99	H	0.6	0.0	16.37	18.52	38.45	40.60	-22.1																																												

Band LTE4 10MHz QPSK	High Frequency Substitution Measurement UL Fremont Radiated Chamber F Company: LG Project #: 15I19834 Date: 2/12/2015 Test Engineer: R.Z Configuration: EUT w/ HS+AC Mode: LTE Band 4 QPSK 10MHz BW Test Equipment: Receiving: Horn T120, and Chamber F SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) <table border="1"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Margin EIRP (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.733</td> <td>9.5</td> <td>V</td> <td>0.95</td> <td>8.50</td> <td>17.05</td> <td>30.0</td> <td>-12.9</td> <td></td> </tr> <tr> <td>1.733</td> <td>17.8</td> <td>H</td> <td>0.95</td> <td>8.70</td> <td>25.59</td> <td>30.0</td> <td>-4.4</td> <td></td> </tr> </tbody> </table> Rev. 2.12.15								f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes	Mid Ch									1.733	9.5	V	0.95	8.50	17.05	30.0	-12.9		1.733	17.8	H	0.95	8.70	25.59	30.0	-4.4	
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes																																			
	Mid Ch																																											
	1.733	9.5	V	0.95	8.50	17.05	30.0	-12.9																																				
	1.733	17.8	H	0.95	8.70	25.59	30.0	-4.4																																				

Band LTE4 10MHz 16QAM	High Frequency Substitution Measurement UL Fremont Radiated Chamber F Company: LG Project #: 15I19834 Date: 2/12/2015 Test Engineer: R.Z Configuration: EUT w/ HS+AC Mode: LTE Band 4 16QAM 10MHz BW Test Equipment: Receiving: Horn T120, and Chamber F SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) <table border="1"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Margin EIRP (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.733</td> <td>8.9</td> <td>V</td> <td>0.95</td> <td>8.50</td> <td>16.49</td> <td>30.0</td> <td>-13.5</td> <td></td> </tr> <tr> <td>1.733</td> <td>17.3</td> <td>H</td> <td>0.95</td> <td>8.70</td> <td>25.05</td> <td>30.0</td> <td>-5.0</td> <td></td> </tr> </tbody> </table> Rev. 2.12.15								f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes	Mid Ch									1.733	8.9	V	0.95	8.50	16.49	30.0	-13.5		1.733	17.3	H	0.95	8.70	25.05	30.0	-5.0	
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes																																			
	Mid Ch																																											
	1.733	8.9	V	0.95	8.50	16.49	30.0	-13.5																																				
	1.733	17.3	H	0.95	8.70	25.05	30.0	-5.0																																				

Band LTE2 10MHz QPSK	High Frequency Substitution Measurement UL Fremont Radiated Chamber F Company: LG Project #: 15I19834 Date: 2/12/2015 Test Engineer: R.Z Configuration: EUT w/ HS+AC Mode: LTE Band 2 QPSK 10MHz BW Test Equipment: Receiving: Horn T120, and Chamber F SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA) <table border="1"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Margin EIRP (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.880</td> <td>10.8</td> <td>V</td> <td>0.98</td> <td>8.53</td> <td>18.38</td> <td>33.0</td> <td>-14.6</td> <td></td> </tr> <tr> <td>1.880</td> <td>17.0</td> <td>H</td> <td>0.98</td> <td>8.68</td> <td>24.70</td> <td>33.0</td> <td>-8.3</td> <td></td> </tr> </tbody> </table> Rev. 2.12.15								f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes	Mid Ch									1.880	10.8	V	0.98	8.53	18.38	33.0	-14.6		1.880	17.0	H	0.98	8.68	24.70	33.0	-8.3	
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes																																			
	Mid Ch																																											
	1.880	10.8	V	0.98	8.53	18.38	33.0	-14.6																																				
	1.880	17.0	H	0.98	8.68	24.70	33.0	-8.3																																				

Band LTE2 10MHz 16QAM	High Frequency Substitution Measurement UL Fremont Radiated Chamber F																																											
	Company:		LG																																									
	Project #:		15I19834																																									
	Date:		2/12/2015																																									
	Test Engineer:		R.Z																																									
	Configuration:		EUT w/ HS+AC																																									
	Mode:		LTE Band 2 16QAM 10MHz BW																																									
	Test Equipment:																																											
	Receiving: Horn T120, and Chamber F SMA Cables																																											
	Substitution: Horn T59 Substitution, 4ft SMA Cable (s/n 245182-003; SUCOFLEX 104PEA)																																											
<table border="1"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Margin EIRP (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1.880</td> <td>10.3</td> <td>V</td> <td>0.98</td> <td>8.53</td> <td>17.83</td> <td>33.0</td> <td>-15.2</td> <td></td> </tr> <tr> <td>1.880</td> <td>16.9</td> <td>H</td> <td>0.98</td> <td>8.68</td> <td>24.60</td> <td>33.0</td> <td>-8.4</td> <td></td> </tr> </tbody> </table>									f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes	Mid Ch									1.880	10.3	V	0.98	8.53	17.83	33.0	-15.2		1.880	16.9	H	0.98	8.68	24.60	33.0	-8.4	
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin EIRP (dB)	Notes																																				
Mid Ch																																												
1.880	10.3	V	0.98	8.53	17.83	33.0	-15.2																																					
1.880	16.9	H	0.98	8.68	24.60	33.0	-8.4																																					
Rev. 2.12.15																																												

12.3. 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) For mobile station, the attenuation factor shall be not less than $43+10\log(P)$ dB at the channel edge and $(55+10\log(P))$ dB at 5.5MHz from the channel edges.

TEST PROCEDURE

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

MODES TESTED

CDMA and LTE

RESULTS

12.3.1. SPURIOUS RADIATION PLOTS

CDMA

UL Verification Services Chamber B Above 1GHz High Frequency Substitution Measurement									
Company: LG Electronics Project #: 15I19834 Date: 01/30/15 Test Engineer: K.Kedida Configuration: EUT w/ AC Adapter + HS, X-position Mode: EVDO BC1									
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, 1851.25 MHz									
3.703	-14.9	H	3.0	35.4	1.0	-49.3	-13.0	-36.3	
5.554	1.9	H	3.0	34.7	1.0	-31.8	-13.0	-18.8	
7.405	-8.4	H	3.0	34.9	1.0	-42.3	-13.0	-29.3	
3.703	-15.0	V	3.0	35.4	1.0	-49.4	-13.0	-36.4	
5.554	-2.1	V	3.0	34.7	1.0	-35.8	-13.0	-22.8	
7.405	-8.5	V	3.0	34.9	1.0	-42.4	-13.0	-29.4	
Mid Ch, 1880 MHz									
3.760	-15.3	H	3.0	35.3	1.0	-49.7	-13.0	-36.7	
5.640	0.8	H	3.0	34.7	1.0	-32.9	-13.0	-19.9	
7.520	-8.1	H	3.0	34.9	1.0	-42.1	-13.0	-29.1	
3.760	-15.7	V	3.0	35.3	1.0	-50.0	-13.0	-37.0	
5.640	-2.4	V	3.0	34.7	1.0	-36.1	-13.0	-23.1	
7.520	-9.0	V	3.0	34.9	1.0	-42.9	-13.0	-29.9	
High Ch, 1908.75 MHz									
3.818	-15.2	H	3.0	35.3	1.0	-49.5	-13.0	-36.5	
5.726	-0.3	H	3.0	34.7	1.0	-34.1	-13.0	-21.1	
7.635	-8.1	H	3.0	34.9	1.0	-42.0	-13.0	-29.0	
3.818	-15.1	V	3.0	35.3	1.0	-49.4	-13.0	-36.4	
5.726	-2.0	V	3.0	34.7	1.0	-35.7	-13.0	-22.7	
7.635	-7.2	V	3.0	34.9	1.0	-41.1	-13.0	-28.1	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

UL Verification Services Chamber B Above 1GHz High Frequency Substitution Measurement									
Company: Project #: Date: Test Engineer: Configuration: Mode:		LG Electronics 15I19834 02/02/15 K.Kedida EUT w/ AC Adapter + HS, X-position RTT BC1 HARM							
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, 1851.25 MHz									
3.703	-13.9	H	3.0	35.4	1.0	-48.3	-13.0	-35.3	
5.554	-0.2	H	3.0	34.7	1.0	-34.0	-13.0	-21.0	
7.405	-8.3	H	3.0	34.9	1.0	-42.2	-13.0	-29.2	
3.703	-14.5	V	3.0	35.4	1.0	-48.9	-13.0	-35.9	
5.554	-1.2	V	3.0	34.7	1.0	-34.9	-13.0	-21.9	
7.405	-8.6	V	3.0	34.9	1.0	-42.5	-13.0	-29.5	
Mid Ch, 1880 MHz									
3.760	-15.3	H	3.0	35.3	1.0	-49.6	-13.0	-36.6	
5.640	0.3	H	3.0	34.7	1.0	-33.4	-13.0	-20.4	
7.520	-9.0	H	3.0	34.9	1.0	-43.0	-13.0	-30.0	
3.760	-14.6	V	3.0	35.3	1.0	-49.0	-13.0	-36.0	
5.640	-1.8	V	3.0	34.7	1.0	-35.5	-13.0	-22.5	
7.520	-10.8	V	3.0	34.9	1.0	-44.8	-13.0	-31.8	
High Ch, 1908.75 MHz									
3.818	-15.8	H	3.0	35.3	1.0	-50.1	-13.0	-37.1	
5.726	-0.2	H	3.0	34.7	1.0	-33.9	-13.0	-20.9	
7.635	-10.7	H	3.0	34.9	1.0	-44.7	-13.0	-31.7	
3.818	-15.4	V	3.0	35.3	1.0	-49.7	-13.0	-36.7	
5.726	-1.6	V	3.0	34.7	1.0	-35.3	-13.0	-22.3	
7.635	-11.7	V	3.0	34.9	1.0	-45.7	-13.0	-32.7	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

UL Verification Services Chamber B Above 1GHz High Frequency Substitution Measurement									
Company: Project #: Date: Test Engineer: Configuration: Mode:		LG Electronics 15I19834 01/30/15 K.Kedida EUT w/ AC Adapter + HS, X-position EVDO BC0							
		Chamber	Pre-amplifier	Filter	Limit				
		5m Chamber B	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									
BC0									
EVDO									
Low Ch, 824.7MHz									
1.649	-24.7	H	3.0	37.4	1.0	-61.0	-13.0	-48.0	
2.474	-8.4	H	3.0	36.4	1.0	-43.8	-13.0	-30.8	
3.299	-19.9	H	3.0	35.8	1.0	-54.7	-13.0	-41.7	
1.649	-20.2	V	3.0	37.4	1.0	-56.6	-13.0	-43.6	
2.474	-6.9	V	3.0	36.4	1.0	-42.3	-13.0	-29.3	
3.299	-19.1	V	3.0	35.8	1.0	-53.9	-13.0	-40.9	
Mid Ch, 836.52MHz									
1.673	-24.0	H	3.0	37.3	1.0	-60.4	-13.0	-47.4	
2.510	-6.5	H	3.0	36.4	1.0	-41.9	-13.0	-28.9	
3.346	-19.5	H	3.0	35.8	1.0	-54.3	-13.0	-41.3	
1.673	-21.2	V	3.0	37.3	1.0	-57.6	-13.0	-44.6	
2.510	-5.9	V	3.0	36.4	1.0	-41.2	-13.0	-28.2	
3.346	-18.3	V	3.0	35.8	1.0	-53.1	-13.0	-40.1	
High Ch, 848.31MHz									
1.697	-24.5	H	3.0	37.3	1.0	-60.8	-13.0	-47.8	
2.545	-7.3	H	3.0	36.3	1.0	-42.6	-13.0	-29.6	
3.393	-19.3	H	3.0	35.7	1.0	-54.0	-13.0	-41.0	
1.697	-20.8	V	3.0	37.3	1.0	-57.1	-13.0	-44.1	
2.545	-4.4	V	3.0	36.3	1.0	-39.7	-13.0	-26.7	
3.393	-19.5	V	3.0	35.7	1.0	-54.2	-13.0	-41.2	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

UL Verification Services Chamber B Above 1GHz High Frequency Substitution Measurement									
Company: Project #: Date: Test Engineer: Configuration: Mode:		LG Electronics 15119834 02/20/15 K.Kedida EUT w/ AC Adapter + HS, X-position RTT BC0							
		Chamber	Pre-amplifier	Filter	Limit				
		5m Chamber B	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, 824.7MHz									
1.649	-23.7	H	3.0	37.4	1.0	-60.0	-13.0	-47.0	
2.474	-12.8	H	3.0	36.4	1.0	-48.2	-13.0	-35.2	
3.299	-18.5	H	3.0	35.8	1.0	-53.3	-13.0	-40.3	
1.649	-23.5	V	3.0	37.4	1.0	-59.8	-13.0	-46.8	
2.474	-9.6	V	3.0	36.4	1.0	-45.0	-13.0	-32.0	
3.299	-18.4	V	3.0	35.8	1.0	-53.2	-13.0	-40.2	
Mid Ch, 836.52MHz									
1.673	-24.6	H	3.0	37.3	1.0	-60.9	-13.0	-47.9	
2.510	-10.6	H	3.0	36.4	1.0	-46.0	-13.0	-33.0	
3.346	-19.7	H	3.0	35.8	1.0	-54.5	-13.0	-41.5	
1.673	-22.8	V	3.0	37.3	1.0	-59.1	-13.0	-46.1	
2.510	-7.7	V	3.0	36.4	1.0	-43.1	-13.0	-30.1	
3.346	-18.9	V	3.0	35.8	1.0	-53.7	-13.0	-40.7	
High Ch, 848.31MHz									
1.697	-20.5	H	3.0	37.3	1.0	-56.8	-13.0	-43.8	
2.545	-11.1	H	3.0	36.3	1.0	-46.5	-13.0	-33.5	
3.393	-18.8	H	3.0	35.7	1.0	-53.5	-13.0	-40.5	
1.697	-23.8	V	3.0	37.3	1.0	-60.1	-13.0	-47.1	
2.545	-17.7	V	3.0	36.3	1.0	-53.0	-13.0	-40.0	
3.393	-17.7	V	3.0	35.7	1.0	-52.5	-13.0	-39.5	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

UL Verification Services Chamber B Above 1GHz High Frequency Substitution Measurement									
Company: Project #: Date: Test Engineer: Configuration: Mode:		LG Electronics 15I19834 01/30/15 K.Kedida EUT w/ AC Adapter + HS, X-position EVDO BC10							
Chamber		Pre-amplifier		Filter		Limit			
5m Chamber B		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, 824.7MHz									
1.649	-23.1	H	3.0	37.4	1.0	-59.4	-13.0	-46.4	
2.474	-7.3	H	3.0	36.4	1.0	-42.7	-13.0	-29.7	
3.299	-18.5	H	3.0	35.8	1.0	-53.3	-13.0	-40.3	
1.649	-19.4	V	3.0	37.4	1.0	-55.8	-13.0	-42.8	
2.474	-7.9	V	3.0	36.4	1.0	-43.3	-13.0	-30.3	
3.299	-18.2	V	3.0	35.8	1.0	-53.0	-13.0	-40.0	
Mid Ch, 836.52MHz									
1.673	-22.7	H	3.0	37.3	1.0	-59.0	-13.0	-46.0	
2.510	-7.7	H	3.0	36.4	1.0	-43.0	-13.0	-30.0	
3.346	-18.2	H	3.0	35.8	1.0	-53.0	-13.0	-40.0	
1.673	-22.6	V	3.0	37.3	1.0	-58.9	-13.0	-45.9	
2.510	-7.3	V	3.0	36.4	1.0	-42.6	-13.0	-29.6	
3.346	-18.4	V	3.0	35.8	1.0	-53.1	-13.0	-40.1	
High Ch, 848.31MHz									
1.697	-23.6	H	3.0	37.3	1.0	-59.9	-13.0	-46.9	
2.545	-8.1	H	3.0	36.3	1.0	-43.4	-13.0	-30.4	
3.393	-18.1	H	3.0	35.7	1.0	-52.8	-13.0	-39.8	
1.697	-22.7	V	3.0	37.3	1.0	-59.0	-13.0	-46.0	
2.545	-6.3	V	3.0	36.3	1.0	-41.6	-13.0	-28.6	
3.393	-17.8	V	3.0	35.7	1.0	-52.5	-13.0	-39.5	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

UL Verification Services Chamber B Above 1GHz High Frequency Substitution Measurement									
Company: Project #: Date: Test Engineer: Configuration: Mode:		LG Electronics 15119834 02/02/15 K.Kedida EUT w/ AC Adapter + HS, X-position RTT BC10							
Chamber		Pre-amplifier		Filter		Limit			
5m Chamber B		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, 824.7MHz									
1.649	-24.0	H	3.0	37.4	1.0	-60.4	-13.0	-47.4	
2.474	-11.9	H	3.0	36.4	1.0	-47.3	-13.0	-34.3	
3.299	-19.3	H	3.0	35.8	1.0	-54.1	-13.0	-41.1	
1.649	-22.9	V	3.0	37.4	1.0	-59.2	-13.0	-46.2	
2.474	-9.1	V	3.0	36.4	1.0	-44.5	-13.0	-31.5	
3.299	-19.1	V	3.0	35.8	1.0	-53.9	-13.0	-40.9	
Mid Ch, 836.52MHz									
1.673	-24.0	H	3.0	37.3	1.0	-60.3	-13.0	-47.3	
2.510	-10.3	H	3.0	36.4	1.0	-45.7	-13.0	-32.7	
3.346	-19.4	H	3.0	35.8	1.0	-54.1	-13.0	-41.1	
1.673	-23.4	V	3.0	37.3	1.0	-59.8	-13.0	-46.8	
2.510	-10.5	V	3.0	36.4	1.0	-45.8	-13.0	-32.8	
3.346	-19.1	V	3.0	35.8	1.0	-53.8	-13.0	-40.8	
High Ch, 848.31MHz									
1.697	-24.7	H	3.0	37.3	1.0	-61.0	-13.0	-48.0	
2.545	-11.1	H	3.0	36.3	1.0	-46.5	-13.0	-33.5	
3.393	-18.9	H	3.0	35.7	1.0	-53.6	-13.0	-40.6	
1.697	-22.8	V	3.0	37.3	1.0	-59.1	-13.0	-46.1	
2.545	-9.5	V	3.0	36.3	1.0	-44.9	-13.0	-31.9	
3.393	-19.1	V	3.0	35.7	1.0	-53.8	-13.0	-40.8	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

LTE Band 2

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/29/2015 Test Engineer: D. Sblendorio Configuration: 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)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
3720.00	-11.0	V	3.0	35.8	1.0	-45.8	-13.0	-32.8	
5580.00	-7.4	V	3.0	35.5	1.0	-41.9	-13.0	-28.9	
7440.00	-1.4	V	3.0	35.7	1.0	-36.2	-13.0	-23.2	
3720.00	-10.8	H	3.0	35.8	1.0	-45.6	-13.0	-32.6	
5580.00	-6.5	H	3.0	35.5	1.0	-41.0	-13.0	-28.0	
7440.00	-0.5	H	3.0	35.7	1.0	-35.2	-13.0	-22.2	
Mid Ch, 1880									
3760.00	-9.9	V	3.0	35.8	1.0	-44.7	-13.0	-31.7	
5640.00	-7.1	V	3.0	35.5	1.0	-41.5	-13.0	-28.5	
7520.00	-2.5	V	3.0	35.7	1.0	-37.2	-13.0	-24.2	
3760.00	-10.5	H	3.0	35.8	1.0	-45.3	-13.0	-32.3	
5640.00	-5.1	H	3.0	35.5	1.0	-39.6	-13.0	-26.6	
7520.00	-1.8	H	3.0	35.7	1.0	-36.5	-13.0	-23.5	
High Ch, 1900									
3800.00	-9.7	V	3.0	35.8	1.0	-44.5	-13.0	-31.5	
5700.00	-6.9	V	3.0	35.5	1.0	-41.4	-13.0	-28.4	
7600.00	-0.8	V	3.0	35.8	1.0	-35.5	-13.0	-22.5	
3800.00	-10.4	H	3.0	35.8	1.0	-45.2	-13.0	-32.2	
5700.00	-6.6	H	3.0	35.5	1.0	-41.1	-13.0	-28.1	
7600.00	-0.9	H	3.0	35.8	1.0	-35.6	-13.0	-22.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I19834								
Date:		1/29/2015								
Test Engineer:		D. Sblendorio								
Configuration:		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)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band LTE2 20MHz QPSK	Low Ch, 1860									
	3720.00	-9.7	V	3.0	35.8	1.0	-44.5	-13.0	-31.5	
	5580.00	-6.7	V	3.0	35.5	1.0	-41.2	-13.0	-28.2	
	7440.00	-1.6	V	3.0	35.7	1.0	-36.3	-13.0	-23.3	
	3720.00	-9.7	H	3.0	35.8	1.0	-44.6	-13.0	-31.6	
	5580.00	-5.7	H	3.0	35.5	1.0	-40.2	-13.0	-27.2	
	7440.00	-1.3	H	3.0	35.7	1.0	-36.0	-13.0	-23.0	
	Mid Ch, 1880									
	3760.00	-9.6	V	3.0	35.8	1.0	-44.4	-13.0	-31.4	
	5640.00	-7.5	V	3.0	35.5	1.0	-42.0	-13.0	-29.0	
	7520.00	-2.2	V	3.0	35.7	1.0	-36.9	-13.0	-23.9	
	3760.00	-10.4	H	3.0	35.8	1.0	-45.2	-13.0	-32.2	
	5640.00	-5.3	H	3.0	35.5	1.0	-39.8	-13.0	-26.8	
	7520.00	-0.8	H	3.0	35.7	1.0	-35.6	-13.0	-22.6	
	High Ch, 1900									
	3800.00	-9.5	V	3.0	35.8	1.0	-44.3	-13.0	-31.3	
	5700.00	-7.1	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
	7600.00	-1.1	V	3.0	35.8	1.0	-35.9	-13.0	-22.9	
	3800.00	-10.4	H	3.0	35.8	1.0	-45.1	-13.0	-32.1	
	5700.00	-6.2	H	3.0	35.5	1.0	-40.7	-13.0	-27.7	
	7600.00	-0.7	H	3.0	35.8	1.0	-35.4	-13.0	-22.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/29/2015 Test Engineer: D. Sblendorio Configuration: 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
Band LTE2 15MHz 16QAM	Low Ch, 1857.5									
	3715.00	-10.1	V	3.0	35.8	1.0	-44.9	-13.0	-31.9	
	5572.50	-7.1	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
	7430.00	-2.0	V	3.0	35.7	1.0	-36.7	-13.0	-23.7	
	3715.00	-11.4	H	3.0	35.8	1.0	-46.2	-13.0	-33.2	
	5572.50	-7.3	H	3.0	35.5	1.0	-41.8	-13.0	-28.8	
	7430.00	-0.9	H	3.0	35.7	1.0	-35.6	-13.0	-22.6	
	Mid Ch, 1880									
	3760.00	-10.4	V	3.0	35.8	1.0	-45.2	-13.0	-32.2	
	5640.00	-7.3	V	3.0	35.5	1.0	-41.8	-13.0	-28.8	
	7520.00	-2.2	V	3.0	35.7	1.0	-37.0	-13.0	-24.0	
	3760.00	-9.5	H	3.0	35.8	1.0	-44.3	-13.0	-31.3	
	5640.00	-6.5	H	3.0	35.5	1.0	-41.0	-13.0	-28.0	
	7520.00	-1.8	H	3.0	35.7	1.0	-36.5	-13.0	-23.5	
	High Ch, 1902.5									
	3805.00	-10.2	V	3.0	35.8	1.0	-45.0	-13.0	-32.0	
	5707.50	-6.5	V	3.0	35.5	1.0	-41.0	-13.0	-28.0	
	7610.00	-1.2	V	3.0	35.8	1.0	-36.0	-13.0	-23.0	
	3805.00	-9.4	H	3.0	35.8	1.0	-44.2	-13.0	-31.2	
	5707.50	-6.1	H	3.0	35.5	1.0	-40.6	-13.0	-27.6	
	7610.00	-0.2	H	3.0	35.8	1.0	-35.0	-13.0	-22.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/29/2015 Test Engineer: D. Sblendorio Configuration: 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 LTE2 15MHz QPSK	Low Ch, 1857.5									
	3715.00	-10.2	V	3.0	35.8	1.0	-45.1	-13.0	-32.1	
	5572.50	-7.2	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
	7430.00	-1.7	V	3.0	35.7	1.0	-36.5	-13.0	-23.5	
	3715.00	-9.0	H	3.0	35.8	1.0	-43.9	-13.0	-30.9	
	5572.50	-7.6	H	3.0	35.5	1.0	-42.0	-13.0	-29.0	
	7430.00	-0.6	H	3.0	35.7	1.0	-35.3	-13.0	-22.3	
	Mid Ch, 1880									
	3760.00	-9.6	V	3.0	35.8	1.0	-44.5	-13.0	-31.5	
	5640.00	-7.6	V	3.0	35.5	1.0	-42.1	-13.0	-29.1	
	7520.00	-2.3	V	3.0	35.7	1.0	-37.0	-13.0	-24.0	
	3760.00	-10.5	H	3.0	35.8	1.0	-45.3	-13.0	-32.3	
	5640.00	-6.9	H	3.0	35.5	1.0	-41.3	-13.0	-28.3	
	7520.00	-1.0	H	3.0	35.7	1.0	-35.8	-13.0	-22.8	
	High Ch, 1902.5									
	3805.00	-10.0	V	3.0	35.8	1.0	-44.8	-13.0	-31.8	
	5707.50	-7.1	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
	7610.00	-1.3	V	3.0	35.8	1.0	-36.1	-13.0	-23.1	
	3805.00	-9.5	H	3.0	35.8	1.0	-44.3	-13.0	-31.3	
	5707.50	-5.9	H	3.0	35.5	1.0	-40.4	-13.0	-27.4	
	7610.00	-0.1	H	3.0	35.8	1.0	-34.9	-13.0	-21.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/29/2015 Test Engineer: D. Sblendorio Configuration: 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
Band LTE2 10MHz 16QAM	Low Ch, 1855									
	3710.00	-10.7	V	3.0	35.9	1.0	-45.5	-13.0	-32.5	
	5565.00	-7.3	V	3.0	35.5	1.0	-41.8	-13.0	-28.8	
	7420.00	-2.2	V	3.0	35.7	1.0	-36.9	-13.0	-23.9	
	3710.00	-10.0	H	3.0	35.9	1.0	-44.9	-13.0	-31.9	
	5565.00	-6.6	H	3.0	35.5	1.0	-41.1	-13.0	-28.1	
	7420.00	-1.2	H	3.0	35.7	1.0	-35.9	-13.0	-22.9	
	Mid Ch, 1880									
	3760.00	-9.6	V	3.0	35.8	1.0	-44.4	-13.0	-31.4	
	5640.00	-7.1	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
	7520.00	-2.2	V	3.0	35.7	1.0	-37.0	-13.0	-24.0	
	3760.00	-11.3	H	3.0	35.8	1.0	-46.2	-13.0	-33.2	
	5640.00	-6.9	H	3.0	35.5	1.0	-41.4	-13.0	-28.4	
	7520.00	-1.2	H	3.0	35.7	1.0	-36.0	-13.0	-23.0	
	High Ch, 1905									
	3810.00	-11.1	V	3.0	35.8	1.0	-45.9	-13.0	-32.9	
	5715.00	-6.4	V	3.0	35.5	1.0	-40.9	-13.0	-27.9	
	7620.00	-1.3	V	3.0	35.8	1.0	-36.1	-13.0	-23.1	
	3810.00	-10.3	H	3.0	35.8	1.0	-45.0	-13.0	-32.0	
	5715.00	-6.1	H	3.0	35.5	1.0	-40.6	-13.0	-27.6	
	7620.00	0.0	H	3.0	35.8	1.0	-34.7	-13.0	-21.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/29/2015 Test Engineer: D. Sblendorio Configuration: 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)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band LTE2 10MHz QPSK	Low Ch, 1855									
	3710.00	-10.3	V	3.0	35.9	1.0	-45.2	-13.0	-32.2	
	5565.00	-7.5	V	3.0	35.5	1.0	-42.0	-13.0	-29.0	
	7420.00	-0.8	V	3.0	35.7	1.0	-35.5	-13.0	-22.5	
	3710.00	-10.8	H	3.0	35.9	1.0	-45.6	-13.0	-32.6	
	5565.00	-6.9	H	3.0	35.5	1.0	-41.4	-13.0	-28.4	
	7420.00	-1.5	H	3.0	35.7	1.0	-36.2	-13.0	-23.2	
	Mid Ch, 1880									
	3760.00	-10.1	V	3.0	35.8	1.0	-44.9	-13.0	-31.9	
	5640.00	-6.8	V	3.0	35.5	1.0	-41.3	-13.0	-28.3	
	7520.00	-2.5	V	3.0	35.7	1.0	-37.3	-13.0	-24.3	
	3760.00	-10.7	H	3.0	35.8	1.0	-45.5	-13.0	-32.5	
	5640.00	-7.1	H	3.0	35.5	1.0	-41.6	-13.0	-28.6	
	7520.00	-1.5	H	3.0	35.7	1.0	-36.3	-13.0	-23.3	
	High Ch, 1905									
	3810.00	-9.8	V	3.0	35.8	1.0	-44.6	-13.0	-31.6	
	5715.00	-6.7	V	3.0	35.5	1.0	-41.2	-13.0	-28.2	
	7620.00	-1.7	V	3.0	35.8	1.0	-36.5	-13.0	-23.5	
	3810.00	-9.6	H	3.0	35.8	1.0	-44.4	-13.0	-31.4	
	5715.00	-5.7	H	3.0	35.5	1.0	-40.2	-13.0	-27.2	
	7620.00	-1.1	H	3.0	35.8	1.0	-35.8	-13.0	-22.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/29/2015 Test Engineer: D. Sblendorio Configuration: 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
Low Ch, 1852.5									
3705.00	-9.9	V	3.0	35.9	1.0	-44.7	-13.0	-31.7	
5557.50	-7.3	V	3.0	35.5	1.0	-41.8	-13.0	-28.8	
7410.00	-1.6	V	3.0	35.7	1.0	-36.4	-13.0	-23.4	
3705.00	-10.6	H	3.0	35.9	1.0	-45.4	-13.0	-32.4	
5557.50	-6.9	H	3.0	35.5	1.0	-41.4	-13.0	-28.4	
7410.00	-1.2	H	3.0	35.7	1.0	-36.0	-13.0	-23.0	
Mid Ch, 1880									
3760.00	-10.5	V	3.0	35.8	1.0	-45.3	-13.0	-32.3	
5640.00	-7.0	V	3.0	35.5	1.0	-41.5	-13.0	-28.5	
7520.00	-1.8	V	3.0	35.7	1.0	-36.6	-13.0	-23.6	
3760.00	-9.5	H	3.0	35.8	1.0	-44.3	-13.0	-31.3	
5640.00	-6.7	H	3.0	35.5	1.0	-41.2	-13.0	-28.2	
7520.00	-1.1	H	3.0	35.7	1.0	-35.8	-13.0	-22.8	
High Ch, 1907.5									
3815.00	-9.8	V	3.0	35.8	1.0	-44.6	-13.0	-31.6	
5722.50	-6.5	V	3.0	35.5	1.0	-41.0	-13.0	-28.0	
7630.00	-1.6	V	3.0	35.8	1.0	-36.4	-13.0	-23.4	
3815.00	-9.9	H	3.0	35.8	1.0	-44.7	-13.0	-31.7	
5722.50	-6.0	H	3.0	35.5	1.0	-40.5	-13.0	-27.5	
7630.00	-0.7	H	3.0	35.8	1.0	-35.5	-13.0	-22.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/29/2015 Test Engineer: D. Sblendorio Configuration: 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
Low Ch, 1852.5									
3705.00	-10.4	V	3.0	35.9	1.0	-45.2	-13.0	-32.2	
5557.50	-7.4	V	3.0	35.5	1.0	-41.9	-13.0	-28.9	
7410.00	-1.9	V	3.0	35.7	1.0	-36.6	-13.0	-23.6	
3705.00	-9.6	H	3.0	35.9	1.0	-44.5	-13.0	-31.5	
5557.50	-6.2	H	3.0	35.5	1.0	-40.6	-13.0	-27.6	
7410.00	0.3	H	3.0	35.7	1.0	-34.4	-13.0	-21.4	
Mid Ch, 1880									
3760.00	-9.8	V	3.0	35.8	1.0	-44.6	-13.0	-31.6	
5640.00	-5.7	V	3.0	35.5	1.0	-40.2	-13.0	-27.2	
7520.00	-2.2	V	3.0	35.7	1.0	-36.9	-13.0	-23.9	
3760.00	-10.9	H	3.0	35.8	1.0	-45.7	-13.0	-32.7	
5640.00	-5.3	H	3.0	35.5	1.0	-39.8	-13.0	-26.8	
7520.00	-0.8	H	3.0	35.7	1.0	-35.5	-13.0	-22.5	
High Ch, 1907.5									
3815.00	-9.9	V	3.0	35.8	1.0	-44.6	-13.0	-31.6	
5722.50	-6.7	V	3.0	35.5	1.0	-41.2	-13.0	-28.2	
7630.00	-1.3	V	3.0	35.8	1.0	-36.0	-13.0	-23.0	
3815.00	-10.5	H	3.0	35.8	1.0	-45.2	-13.0	-32.2	
5722.50	-6.3	H	3.0	35.5	1.0	-40.8	-13.0	-27.8	
7630.00	-0.4	H	3.0	35.8	1.0	-35.2	-13.0	-22.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/29/2015 Test Engineer: D. Sblendorio Configuration: 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)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.5									
3703.00	-12.0	V	3.0	35.9	1.0	-46.9	-13.0	-33.9	
5554.50	-10.4	V	3.0	35.5	1.0	-44.9	-13.0	-31.9	
7406.00	-5.4	V	3.0	35.7	1.0	-40.1	-13.0	-27.1	
3703.00	-9.4	H	3.0	35.9	1.0	-44.3	-13.0	-31.3	
5554.50	-6.5	H	3.0	35.5	1.0	-41.0	-13.0	-28.0	
7406.00	-0.6	H	3.0	35.7	1.0	-35.3	-13.0	-22.3	
Mid Ch, 1880									
3760.00	-1.1	V	3.0	35.8	1.0	-35.9	-13.0	-22.9	
5640.00	2.3	V	3.0	35.5	1.0	-32.2	-13.0	-19.2	
7520.00	8.2	V	3.0	35.7	1.0	-26.6	-13.0	-13.6	
3760.00	-10.2	H	3.0	35.8	1.0	-45.0	-13.0	-32.0	
5640.00	-6.2	H	3.0	35.5	1.0	-40.7	-13.0	-27.7	
7520.00	-1.6	H	3.0	35.7	1.0	-36.3	-13.0	-23.3	
High Ch, 1908.5									
3817.00	-9.5	V	3.0	35.8	1.0	-44.3	-13.0	-31.3	
5725.50	-6.3	V	3.0	35.5	1.0	-40.8	-13.0	-27.8	
7634.00	-0.6	V	3.0	35.8	1.0	-35.4	-13.0	-22.4	
3817.00	-9.9	H	3.0	35.8	1.0	-44.7	-13.0	-31.7	
5725.50	-5.5	H	3.0	35.5	1.0	-40.0	-13.0	-27.0	
7634.00	0.1	H	3.0	35.8	1.0	-34.7	-13.0	-21.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/29/2015 Test Engineer: D. Sblendorio Configuration: 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	-11.5	V	3.0	35.9	1.0	-46.4	-13.0	-33.4	
LTE2	5554.50	-11.1	V	3.0	35.5	1.0	-45.6	-13.0	-32.6	
	7406.00	-5.5	V	3.0	35.7	1.0	-40.2	-13.0	-27.2	
3MHz	3703.00	-10.5	H	3.0	35.9	1.0	-45.4	-13.0	-32.4	
	5554.50	-6.5	H	3.0	35.5	1.0	-41.0	-13.0	-28.0	
QPSK	7406.00	-1.3	H	3.0	35.7	1.0	-36.0	-13.0	-23.0	
	Mid Ch, 1880									
	3760.00	-0.5	V	3.0	35.8	1.0	-35.3	-13.0	-22.3	
	5640.00	2.5	V	3.0	35.5	1.0	-32.0	-13.0	-19.0	
	7520.00	7.2	V	3.0	35.7	1.0	-27.5	-13.0	-14.5	
	3760.00	-10.0	H	3.0	35.8	1.0	-44.8	-13.0	-31.8	
	5640.00	-5.3	H	3.0	35.5	1.0	-39.8	-13.0	-26.8	
	7520.00	-0.6	H	3.0	35.7	1.0	-35.4	-13.0	-22.4	
	High Ch, 1908.5									
	3817.00	-9.4	V	3.0	35.8	1.0	-44.1	-13.0	-31.1	
	5725.50	-5.7	V	3.0	35.5	1.0	-40.2	-13.0	-27.2	
	7634.00	-1.3	V	3.0	35.8	1.0	-36.0	-13.0	-23.0	
	3817.00	-9.9	H	3.0	35.8	1.0	-44.7	-13.0	-31.7	
	5725.50	-5.5	H	3.0	35.5	1.0	-40.0	-13.0	-27.0	
	7634.00	-0.6	H	3.0	35.8	1.0	-35.3	-13.0	-22.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/27/2015 Test Engineer: D. Sblendorio Configuration: EUT/ AC Charger/ Headset Location: Chamber C Mode: LTE_16QAM 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									
3701.40	-9.7	V	3.0	35.9	1.0	-44.5	-13.0	-31.5	
5552.10	-7.4	V	3.0	35.5	1.0	-41.9	-13.0	-28.9	
7402.80	-0.8	V	3.0	35.7	1.0	-35.5	-13.0	-22.5	
3701.40	-10.6	H	3.0	35.9	1.0	-45.4	-13.0	-32.4	
5552.10	-7.0	H	3.0	35.5	1.0	-41.5	-13.0	-28.5	
7402.80	-0.2	H	3.0	35.7	1.0	-34.9	-13.0	-21.9	
Mid Ch, 1880									
3760.00	-9.9	V	3.0	35.8	1.0	-44.7	-13.0	-31.7	
5640.00	-7.1	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
7520.00	-2.2	V	3.0	35.7	1.0	-37.0	-13.0	-24.0	
3760.00	-9.6	H	3.0	35.8	1.0	-44.4	-13.0	-31.4	
5640.00	-4.3	H	3.0	35.5	1.0	-38.8	-13.0	-25.8	
7520.00	-1.0	H	3.0	35.7	1.0	-35.7	-13.0	-22.7	
High Ch, 1909.3									
3818.60	-9.3	V	3.0	35.8	1.0	-44.0	-13.0	-31.0	
5727.90	-5.8	V	3.0	35.5	1.0	-40.3	-13.0	-27.3	
7637.20	-0.9	V	3.0	35.8	1.0	-35.6	-13.0	-22.6	
3818.60	-11.1	H	3.0	35.8	1.0	-45.9	-13.0	-32.9	
5727.90	-6.8	H	3.0	35.5	1.0	-41.3	-13.0	-28.3	
7637.20	0.6	H	3.0	35.8	1.0	-34.2	-13.0	-21.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15119834 Date: 1/27/2015 Test Engineer: D. Sblendorio Configuration: 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									
3701.40	-8.2	V	3.0	35.9	1.0	-43.1	-13.0	-30.1	
5552.10	-6.4	V	3.0	35.5	1.0	-40.9	-13.0	-27.9	
7402.80	-2.0	V	3.0	35.7	1.0	-36.7	-13.0	-23.7	
3701.40	-9.3	H	3.0	35.9	1.0	-44.2	-13.0	-31.2	
5552.10	-7.3	H	3.0	35.5	1.0	-41.7	-13.0	-28.7	
7402.80	-1.0	H	3.0	35.7	1.0	-35.7	-13.0	-22.7	
Mid Ch, 1880									
3760.00	-10.5	V	3.0	35.8	1.0	-45.3	-13.0	-32.3	
5640.00	-7.0	V	3.0	35.5	1.0	-41.5	-13.0	-28.5	
7520.00	-1.9	V	3.0	35.7	1.0	-36.6	-13.0	-23.6	
3760.00	-9.2	H	3.0	35.8	1.0	-44.0	-13.0	-31.0	
5640.00	-4.9	H	3.0	35.5	1.0	-39.4	-13.0	-26.4	
7520.00	-1.1	H	3.0	35.7	1.0	-35.8	-13.0	-22.8	
High Ch, 1909.3									
3818.60	-10.1	V	3.0	35.8	1.0	-44.9	-13.0	-31.9	
5727.90	-6.7	V	3.0	35.5	1.0	-41.2	-13.0	-28.2	
7637.20	-0.1	V	3.0	35.8	1.0	-34.8	-13.0	-21.8	
3818.60	-10.5	H	3.0	35.8	1.0	-45.3	-13.0	-32.3	
5727.90	-6.2	H	3.0	35.5	1.0	-40.7	-13.0	-27.7	
7637.20	-0.6	H	3.0	35.8	1.0	-35.3	-13.0	-22.3	

LTE Band 4

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 2/2/2015 Test Engineer: R.Zheng Configuration: EUT , AC Adapter Location: Chamber B Mode: LTE_16QAM Band 4 Harmonics, 20MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1720 3440.00 -7.7 V 3.0 36.0 1.0 -42.8 -13.0 -29.8 5160.00 -1.4 V 3.0 35.4 1.0 -35.8 -13.0 -22.8 6880.00 -16.8 V 3.0 35.7 1.0 -51.5 -13.0 -38.5 3440.00 -4.8 H 3.0 36.0 1.0 -39.8 -13.0 -26.8 5160.00 -0.5 H 3.0 35.4 1.0 -34.9 -13.0 -21.9 6880.00 -14.9 H 3.0 35.7 1.0 -49.6 -13.0 -36.6 Mid Ch, 1732.5 3465.00 -14.9 V 3.0 36.0 1.0 -50.0 -13.0 -37.0 5197.50 -1.9 V 3.0 35.4 1.0 -36.3 -13.0 -23.3 6930.00 -15.4 V 3.0 35.7 1.0 -50.0 -13.0 -37.0 3465.00 -13.0 H 3.0 36.0 1.0 -48.0 -13.0 -35.0 5197.50 -6.8 H 3.0 35.4 1.0 -41.2 -13.0 -28.2 6930.00 -13.4 H 3.0 35.7 1.0 -48.1 -13.0 -35.1 High Ch, 1745 3490.00 -5.8 V 3.0 36.0 1.0 -40.8 -13.0 -27.8 5235.00 -13.2 V 3.0 35.4 1.0 -47.6 -13.0 -34.6 6980.00 -17.7 V 3.0 35.7 1.0 -52.4 -13.0 -39.4 3490.00 -6.6 H 3.0 36.0 1.0 -41.6 -13.0 -28.6 5235.00 -9.8 H 3.0 35.4 1.0 -44.3 -13.0 -31.3 6980.00 -13.5 H 3.0 35.7 1.0 -48.2 -13.0 -35.2									

Band LTE4 20MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: LG Electronics Project #: 15I19834 Date: 2/2/2015 Test Engineer: R.Zheng Configuration: EUT , AC Adapter Location: Chamber B Mode: LTE_QPSK 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									
	3440.00	-7.3	V	3.0	36.0	1.0	-42.4	-13.0	-29.4	
	5160.00	-0.3	V	3.0	35.4	1.0	-34.7	-13.0	-21.7	
	6880.00	-16.3	V	3.0	35.7	1.0	-51.0	-13.0	-38.0	
	3440.00	-4.0	H	3.0	36.0	1.0	-39.0	-13.0	-26.0	
	5160.00	-0.1	H	3.0	35.4	1.0	-34.5	-13.0	-21.5	
	6880.00	-14.7	H	3.0	35.7	1.0	-49.4	-13.0	-36.4	
	Mid Ch, 1732.5									
	3465.00	-14.5	V	3.0	36.0	1.0	-49.5	-13.0	-36.5	
	5197.50	-5.0	V	3.0	35.4	1.0	-39.4	-13.0	-26.4	
	6930.00	-13.6	V	3.0	35.7	1.0	-48.2	-13.0	-35.2	
	3465.00	-12.5	H	3.0	36.0	1.0	-47.5	-13.0	-34.5	
	5197.50	-6.5	H	3.0	35.4	1.0	-40.9	-13.0	-27.9	
	6930.00	-12.7	H	3.0	35.7	1.0	-47.4	-13.0	-34.4	
	High Ch, 1745									
	3490.00	-5.6	V	3.0	36.0	1.0	-40.6	-13.0	-27.6	
	5235.00	-12.3	V	3.0	35.4	1.0	-46.7	-13.0	-33.7	
	6980.00	-17.2	V	3.0	35.7	1.0	-51.9	-13.0	-38.9	
	3490.00	-6.4	H	3.0	36.0	1.0	-41.4	-13.0	-28.4	
	5235.00	-10.5	H	3.0	35.4	1.0	-45.0	-13.0	-32.0	
	6980.00	-13.6	H	3.0	35.7	1.0	-48.3	-13.0	-35.3	

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 2/2/2015 Test Engineer: R.Zheng Configuration: EUT , AC Adapter Location: Chamber B Mode: LTE_16QAM Band 4 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, 1717.5 3435.00 -16.0 V 3.0 36.1 1.0 -51.1 -13.0 -38.1 5152.50 -11.2 V 3.0 35.4 1.0 -45.7 -13.0 -32.7 6870.00 -10.3 V 3.0 35.7 1.0 -45.0 -13.0 -32.0 3435.00 -15.7 H 3.0 36.1 1.0 -50.7 -13.0 -37.7 5152.50 -10.1 H 3.0 35.4 1.0 -44.5 -13.0 -31.5 6870.00 -9.2 H 3.0 35.7 1.0 -43.9 -13.0 -30.9 Mid Ch, 1732.5 3465.00 -14.6 V 3.0 36.0 1.0 -49.7 -13.0 -36.7 5197.50 -7.7 V 3.0 35.4 1.0 -42.1 -13.0 -29.1 6930.00 -6.2 V 3.0 35.7 1.0 -40.8 -13.0 -27.8 3465.00 -13.4 H 3.0 36.0 1.0 -48.5 -13.0 -35.5 5197.50 -10.6 H 3.0 35.4 1.0 -45.0 -13.0 -32.0 6930.00 -8.6 H 3.0 35.7 1.0 -43.3 -13.0 -30.3 High Ch, 1747.5 3495.00 -1.4 V 3.0 36.0 1.0 -36.4 -13.0 -23.4 5242.50 -1.7 V 3.0 35.4 1.0 -36.1 -13.0 -23.1 6990.00 -8.0 V 3.0 35.7 1.0 -42.7 -13.0 -29.7 3495.00 -14.4 H 3.0 36.0 1.0 -49.4 -13.0 -36.4 5242.50 -10.9 H 3.0 35.4 1.0 -45.4 -13.0 -32.4 6990.00 -8.3 H 3.0 35.7 1.0 -43.0 -13.0 -30.0									

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 2/2/2015 Test Engineer: R.Zheng Configuration: EUT , AC Adapter Location: Chamber B Mode: LTE_QPSK Band 4 Harmonics, 15MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4	Low Ch, 1717.5									
	3435.00	-16.3	V	3.0	36.1	1.0	-51.3	-13.0	-38.3	
15MHz	5152.50	-10.9	V	3.0	35.4	1.0	-45.3	-13.0	-32.3	
	6870.00	-10.1	V	3.0	35.7	1.0	-44.8	-13.0	-31.8	
QPSK	3435.00	-15.6	H	3.0	36.1	1.0	-50.6	-13.0	-37.6	
	5152.50	-10.3	H	3.0	35.4	1.0	-44.7	-13.0	-31.7	
	6870.00	-8.6	H	3.0	35.7	1.0	-43.3	-13.0	-30.3	
	Mid Ch, 1732.5									
	3465.00	-14.4	V	3.0	36.0	1.0	-49.5	-13.0	-36.5	
	5197.50	-8.0	V	3.0	35.4	1.0	-42.4	-13.0	-29.4	
	6930.00	-6.6	V	3.0	35.7	1.0	-41.2	-13.0	-28.2	
	3465.00	-13.3	H	3.0	36.0	1.0	-48.3	-13.0	-35.3	
	5197.50	-10.0	H	3.0	35.4	1.0	-44.4	-13.0	-31.4	
	6930.00	-7.8	H	3.0	35.7	1.0	-42.5	-13.0	-29.5	
	High Ch, 1747.5									
	3495.00	-1.8	V	3.0	36.0	1.0	-36.8	-13.0	-23.8	
	5242.50	-0.2	V	3.0	35.4	1.0	-34.6	-13.0	-21.6	
	6990.00	-8.5	V	3.0	35.7	1.0	-43.2	-13.0	-30.2	
	3495.00	-13.6	H	3.0	36.0	1.0	-48.6	-13.0	-35.6	
	5242.50	-10.6	H	3.0	35.4	1.0	-45.1	-13.0	-32.1	
	6990.00	-8.5	H	3.0	35.7	1.0	-43.2	-13.0	-30.2	

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 2/2/2015 Test Engineer: R.Zheng Configuration: EUT , AC Adapter Location: Chamber B Mode: LTE_16QAM Band 4 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
LTE4	Low Ch, 1715									
	3430.00	-8.9	V	3.0	36.1	1.0	-44.0	-13.0	-31.0	
10MHz	5145.00	-10.9	V	3.0	35.4	1.0	-45.4	-13.0	-32.4	
	6860.00	-13.9	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
16QAM	3430.00	-19.5	H	3.0	36.1	1.0	-54.6	-13.0	-41.6	
	5145.00	-8.1	H	3.0	35.4	1.0	-42.5	-13.0	-29.5	
	6860.00	-14.7	H	3.0	35.7	1.0	-49.4	-13.0	-36.4	
	Mid Ch, 1732.5									
	3465.00	-10.3	V	3.0	36.0	1.0	-45.3	-13.0	-32.3	
	5197.50	-5.1	V	3.0	35.4	1.0	-39.5	-13.0	-26.5	
	6930.00	-15.4	V	3.0	35.7	1.0	-50.0	-13.0	-37.0	
	3465.00	-12.7	H	3.0	36.0	1.0	-47.7	-13.0	-34.7	
	5197.50	-8.4	H	3.0	35.4	1.0	-42.8	-13.0	-29.8	
	6930.00	-13.0	H	3.0	35.7	1.0	-47.6	-13.0	-34.6	
	High Ch, 1750									
	3500.00	-18.5	V	3.0	36.0	1.0	-53.5	-13.0	-40.5	
	5250.00	-7.9	V	3.0	35.4	1.0	-42.3	-13.0	-29.3	
	7000.00	-16.0	V	3.0	35.7	1.0	-50.7	-13.0	-37.7	
	3500.00	-21.7	H	3.0	36.0	1.0	-56.7	-13.0	-43.7	
	5250.00	-2.7	H	3.0	35.4	1.0	-37.1	-13.0	-24.1	
	7000.00	-12.5	H	3.0	35.7	1.0	-47.2	-13.0	-34.2	

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 2/2/2015 Test Engineer: R.Zheng Configuration: EUT , AC Adapter Location: Chamber B Mode: LTE_QPSK Band 4 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
LTE4	Low Ch, 1715									
	3430.00	-9.3	V	3.0	36.1	1.0	-44.4	-13.0	-31.4	
10MHz	5145.00	-10.7	V	3.0	35.4	1.0	-45.2	-13.0	-32.2	
	6860.00	-15.1	V	3.0	35.7	1.0	-49.8	-13.0	-36.8	
QPSK	3430.00	-19.1	H	3.0	36.1	1.0	-54.2	-13.0	-41.2	
	5145.00	-7.5	H	3.0	35.4	1.0	-42.0	-13.0	-29.0	
	6860.00	-14.1	H	3.0	35.7	1.0	-48.8	-13.0	-35.8	
	Mid Ch, 1732.5									
	3465.00	-10.8	V	3.0	36.0	1.0	-45.9	-13.0	-32.9	
	5197.50	-5.4	V	3.0	35.4	1.0	-39.8	-13.0	-26.8	
	6930.00	-15.7	V	3.0	35.7	1.0	-50.3	-13.0	-37.3	
	3465.00	-12.7	H	3.0	36.0	1.0	-47.7	-13.0	-34.7	
	5197.50	-8.4	H	3.0	35.4	1.0	-42.8	-13.0	-29.8	
	6930.00	-13.0	H	3.0	35.7	1.0	-47.6	-13.0	-34.6	
	High Ch, 1750									
	3500.00	-18.1	V	3.0	36.0	1.0	-53.1	-13.0	-40.1	
	5250.00	-7.6	V	3.0	35.4	1.0	-42.0	-13.0	-29.0	
	7000.00	-15.2	V	3.0	35.7	1.0	-49.9	-13.0	-36.9	
	3500.00	-21.0	H	3.0	36.0	1.0	-56.0	-13.0	-43.0	
	5250.00	-3.1	H	3.0	35.4	1.0	-37.5	-13.0	-24.5	
	7000.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 2/2/2015 Test Engineer: R.Zheng Configuration: EUT , AC Adapter Location: Chamber B Mode: LTE_16QAM Band 4 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, 1712.5 3425.00 -12.3 V 3.0 36.1 1.0 -47.4 -13.0 -34.4 5137.50 -11.1 V 3.0 35.4 1.0 -45.5 -13.0 -32.5 6850.00 -18.3 V 3.0 35.7 1.0 -52.9 -13.0 -39.9 3425.00 -22.1 H 3.0 36.1 1.0 -57.2 -13.0 -44.2 5137.50 -6.4 H 3.0 35.4 1.0 -40.8 -13.0 -27.8 6850.00 -10.5 H 3.0 35.7 1.0 -45.2 -13.0 -32.2 Mid Ch, 1732.5 3465.00 -19.9 V 3.0 36.0 1.0 -54.9 -13.0 -41.9 5197.50 -6.8 V 3.0 35.4 1.0 -41.2 -13.0 -28.2 6930.00 -8.9 V 3.0 35.7 1.0 -43.5 -13.0 -30.5 3465.00 -13.8 H 3.0 36.0 1.0 -48.8 -13.0 -35.8 5197.50 -5.1 H 3.0 35.4 1.0 -39.5 -13.0 -26.5 6930.00 -7.8 H 3.0 35.7 1.0 -42.5 -13.0 -29.5 High Ch, 1752.5 3505.00 -15.6 V 3.0 36.0 1.0 -50.6 -13.0 -37.6 5257.50 -10.8 V 3.0 35.4 1.0 -45.3 -13.0 -32.3 7010.00 -14.6 V 3.0 35.7 1.0 -49.3 -13.0 -36.3 3505.00 -16.1 H 3.0 36.0 1.0 -51.1 -13.0 -38.1 5257.50 -5.7 H 3.0 35.4 1.0 -40.1 -13.0 -27.1 7010.00 -13.9 H 3.0 35.7 1.0 -48.6 -13.0 -35.6									

Band LTE4 5MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: LG Electronics Project #: 15I19834 Date: 2/2/2015 Test Engineer: R.Zheng Configuration: EUT , AC Adapter Location: Chamber B Mode: LTE_QPSK Band 4 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, 1712.5									
	3425.00	-10.9	V	3.0	36.1	1.0	-45.9	-13.0	-32.9	
	5137.50	-10.3	V	3.0	35.4	1.0	-44.7	-13.0	-31.7	
	6850.00	-20.8	V	3.0	35.7	1.0	-55.4	-13.0	-42.4	
	3425.00	-21.3	H	3.0	36.1	1.0	-56.4	-13.0	-43.4	
	5137.50	-6.3	H	3.0	35.4	1.0	-40.7	-13.0	-27.7	
	6850.00	-10.7	H	3.0	35.7	1.0	-45.3	-13.0	-32.3	
	Mid Ch, 1732.5									
	3465.00	-21.0	V	3.0	36.0	1.0	-56.1	-13.0	-43.1	
	5197.50	-7.7	V	3.0	35.4	1.0	-42.1	-13.0	-29.1	
	6930.00	-9.0	V	3.0	35.7	1.0	-43.6	-13.0	-30.6	
	3465.00	-14.0	H	3.0	36.0	1.0	-49.0	-13.0	-36.0	
	5197.50	-4.6	H	3.0	35.4	1.0	-39.0	-13.0	-26.0	
	6930.00	-6.5	H	3.0	35.7	1.0	-41.2	-13.0	-28.2	
	High Ch, 1752.5									
	3505.00	-15.5	V	3.0	36.0	1.0	-50.5	-13.0	-37.5	
	5257.50	-10.2	V	3.0	35.4	1.0	-44.7	-13.0	-31.7	
	7010.00	-14.9	V	3.0	35.7	1.0	-49.5	-13.0	-36.5	
	3505.00	-14.7	H	3.0	36.0	1.0	-49.7	-13.0	-36.7	
	5257.50	-5.1	H	3.0	35.4	1.0	-39.5	-13.0	-26.5	
	7010.00	-13.6	H	3.0	35.7	1.0	-48.3	-13.0	-35.3	

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 2/2/2015 Test Engineer: R.Zheng Configuration: EUT , AC Adapter Location: Chamber C Mode: LTE_16QAM Band 4 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
LTE4	Low Ch, 1711.5									
	3423.00	-16.6	V	3.0	36.1	1.0	-51.6	-13.0	-38.6	
3MHz	5134.50	-15.3	V	3.0	35.4	1.0	-49.8	-13.0	-36.8	
	6846.00	-18.2	V	3.0	35.7	1.0	-52.9	-13.0	-39.9	
16QAM	3423.00	-17.6	H	3.0	36.1	1.0	-52.6	-13.0	-39.6	
	5134.50	-11.8	H	3.0	35.4	1.0	-46.2	-13.0	-33.2	
	6846.00	-14.4	H	3.0	35.7	1.0	-49.1	-13.0	-36.1	
	Mid Ch, 1732.5									
	3465.00	-10.8	V	3.0	36.0	1.0	-45.9	-13.0	-32.9	
	5197.50	-9.8	V	3.0	35.4	1.0	-44.2	-13.0	-31.2	
	6930.00	-14.4	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
	3465.00	-15.4	H	3.0	36.0	1.0	-50.4	-13.0	-37.4	
	5197.50	-16.9	H	3.0	35.4	1.0	-51.3	-13.0	-38.3	
	6930.00	-12.0	H	3.0	35.7	1.0	-46.7	-13.0	-33.7	
	High Ch, 1753.5									
	3507.00	-16.4	V	3.0	36.0	1.0	-51.4	-13.0	-38.4	
	5260.50	-11.3	V	3.0	35.4	1.0	-45.7	-13.0	-32.7	
	7014.00	-3.5	V	3.0	35.7	1.0	-38.1	-13.0	-25.1	
	3507.00	-16.4	H	3.0	36.0	1.0	-51.4	-13.0	-38.4	
	5260.50	-9.6	H	3.0	35.4	1.0	-44.0	-13.0	-31.0	
	7014.00	-8.1	H	3.0	35.7	1.0	-42.8	-13.0	-29.8	

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 2/2/2015 Test Engineer: R.Zheng Configuration: EUT , AC Adapter Location: Chamber C Mode: LTE_QPSK Band 4 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
LTE4	Low Ch, 1711.5									
	3423.00	-15.6	V	3.0	36.1	1.0	-50.7	-13.0	-37.7	
3MHz	5134.50	-15.1	V	3.0	35.4	1.0	-49.5	-13.0	-36.5	
	6846.00	-17.7	V	3.0	35.7	1.0	-52.3	-13.0	-39.3	
QPSK	3423.00	-18.3	H	3.0	36.1	1.0	-53.3	-13.0	-40.3	
	5134.50	-12.6	H	3.0	35.4	1.0	-47.0	-13.0	-34.0	
	6846.00	-13.9	H	3.0	35.7	1.0	-48.6	-13.0	-35.6	
	Mid Ch, 1732.5									
	3465.00	-11.1	V	3.0	36.0	1.0	-46.1	-13.0	-33.1	
	5197.50	-9.9	V	3.0	35.4	1.0	-44.3	-13.0	-31.3	
	6930.00	-13.9	V	3.0	35.7	1.0	-48.6	-13.0	-35.6	
	3465.00	-15.7	H	3.0	36.0	1.0	-50.7	-13.0	-37.7	
	5197.50	-15.6	H	3.0	35.4	1.0	-50.0	-13.0	-37.0	
	6930.00	-11.8	H	3.0	35.7	1.0	-46.4	-13.0	-33.4	
	High Ch, 1753.5									
	3507.00	-16.6	V	3.0	36.0	1.0	-51.6	-13.0	-38.6	
	5260.50	-11.0	V	3.0	35.4	1.0	-45.5	-13.0	-32.5	
	7014.00	-5.2	V	3.0	35.7	1.0	-39.9	-13.0	-26.9	
	3507.00	-15.9	H	3.0	36.0	1.0	-50.9	-13.0	-37.9	
	5260.50	-8.9	H	3.0	35.4	1.0	-43.4	-13.0	-30.4	
	7014.00	-7.7	H	3.0	35.7	1.0	-42.4	-13.0	-29.4	

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 2/2/2015 Test Engineer: R.Zheng Configuration: EUT , AC Adapter Location: Chamber C Mode: LTE_16QAM Band 4 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
LTE4	Low Ch, 1710.7									
	3421.40	-13.6	V	3.0	36.1	1.0	-48.6	-13.0	-35.6	
1.4MHz	5132.10	-3.8	V	3.0	35.4	1.0	-38.2	-13.0	-25.2	
	6842.80	-15.9	V	3.0	35.7	1.0	-50.6	-13.0	-37.6	
16QAM	3421.40	-14.7	H	3.0	36.1	1.0	-49.8	-13.0	-36.8	
	5132.10	-11.8	H	3.0	35.4	1.0	-46.3	-13.0	-33.3	
	6842.80	-14.6	H	3.0	35.7	1.0	-49.2	-13.0	-36.2	
	Mid Ch, 1732.5									
	3465.00	-16.0	V	3.0	36.0	1.0	-51.0	-13.0	-38.0	
	5197.50	-6.7	V	3.0	35.4	1.0	-41.1	-13.0	-28.1	
	6930.00	-12.6	V	3.0	35.7	1.0	-47.3	-13.0	-34.3	
	3465.00	-16.4	H	3.0	36.0	1.0	-51.4	-13.0	-38.4	
	5197.50	-5.1	H	3.0	35.4	1.0	-39.5	-13.0	-26.5	
	6930.00	-10.3	H	3.0	35.7	1.0	-44.9	-13.0	-31.9	
	High Ch, 1754.3									
	3508.60	-18.0	V	3.0	36.0	1.0	-53.0	-13.0	-40.0	
	5262.90	-13.5	V	3.0	35.4	1.0	-47.9	-13.0	-34.9	
	7017.20	-8.9	V	3.0	35.7	1.0	-43.6	-13.0	-30.6	
	3508.60	-16.4	H	3.0	36.0	1.0	-51.4	-13.0	-38.4	
	5262.90	-6.8	H	3.0	35.4	1.0	-41.3	-13.0	-28.3	
	7017.20	-9.4	H	3.0	35.7	1.0	-44.1	-13.0	-31.1	

Band LTE4 1.4MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company:		LG Electronics							
	Project #:		15I19834							
	Date:		2/2/2015							
	Test Engineer:		R.Zheng							
	Configuration:		EUT , AC Adapter							
	Location:		Chamber C							
	Mode:		LTE_QPSK Band 4 Harmonics, 1.4MHz Bandwidth							
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1710.7									
	3421.40	-15.2	V	3.0	36.1	1.0	-50.3	-13.0	-37.3	
	5132.10	-4.3	V	3.0	35.4	1.0	-38.7	-13.0	-25.7	
	6842.80	-15.5	V	3.0	35.7	1.0	-50.2	-13.0	-37.2	
	3421.40	-17.2	H	3.0	36.1	1.0	-52.3	-13.0	-39.3	
	5132.10	-11.4	H	3.0	35.4	1.0	-45.9	-13.0	-32.9	
	6842.80	-14.4	H	3.0	35.7	1.0	-49.1	-13.0	-36.1	
	Mid Ch, 1732.5									
	3465.00	-16.8	V	3.0	36.0	1.0	-51.9	-13.0	-38.9	
	5197.50	-7.2	V	3.0	35.4	1.0	-41.6	-13.0	-28.6	
	6930.00	-12.3	V	3.0	35.7	1.0	-47.0	-13.0	-34.0	
	3465.00	-17.7	H	3.0	36.0	1.0	-52.7	-13.0	-39.7	
	5197.50	-5.1	H	3.0	35.4	1.0	-39.5	-13.0	-26.5	
	6930.00	-10.0	H	3.0	35.7	1.0	-44.7	-13.0	-31.7	
	High Ch, 1754.3									
	3508.60	-18.5	V	3.0	36.0	1.0	-53.5	-13.0	-40.5	
	5262.90	-13.0	V	3.0	35.4	1.0	-47.5	-13.0	-34.5	
	7017.20	-8.8	V	3.0	35.7	1.0	-43.5	-13.0	-30.5	
	3508.60	-16.6	H	3.0	36.0	1.0	-51.6	-13.0	-38.6	
	5262.90	-7.2	H	3.0	35.4	1.0	-41.7	-13.0	-28.7	
	7017.20	-10.2	H	3.0	35.7	1.0	-44.9	-13.0	-31.9	

LTE Band 5

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company: LG Electronics Project #: 15I19834 Date: 01/30/15 Test Engineer: James Jackson Configuration: EUT w/ AC Adaptor + HS, X-pos Mode: LTE5 10MHz 16QAM HARM										
		Chamber	Pre-amplifier		Filter	Limit				
		3m Chamber ▾	T34 8449B ▾		Filter1 ▾	Part 22 ▾				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE5 10MHz 16QAM	Low Ch, 829MHz									
	1.658	-22.3	V	3.0	37.4	1.0	-58.7	-13.0	-45.7	
	2.487	-22.1	V	3.0	36.4	1.0	-57.5	-13.0	-44.5	
	3.316	-23.0	V	3.0	35.8	1.0	-57.8	-13.0	-44.8	
	1.658	-24.7	H	3.0	37.4	1.0	-61.0	-13.0	-48.0	
	2.487	-25.8	H	3.0	36.4	1.0	-61.2	-13.0	-48.2	
	3.316	-23.4	H	3.0	35.8	1.0	-58.2	-13.0	-45.2	
	Mid Ch, 836.5MHz									
	1.673	-26.2	V	3.0	37.3	1.0	-62.5	-13.0	-49.5	
	2.510	-23.0	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
	3.346	-23.4	V	3.0	35.8	1.0	-58.2	-13.0	-45.2	
	1.673	-27.7	H	3.0	37.3	1.0	-64.1	-13.0	-51.1	
	2.510	-23.7	H	3.0	36.4	1.0	-59.1	-13.0	-46.1	
	3.346	-23.6	H	3.0	35.8	1.0	-58.3	-13.0	-45.3	
	High Ch, 844MHz									
	1.688	-24.3	V	3.0	37.3	1.0	-60.7	-13.0	-47.7	
	2.532	-22.5	V	3.0	36.3	1.0	-57.8	-13.0	-44.8	
	3.376	-23.2	V	3.0	35.7	1.0	-57.9	-13.0	-44.9	
	1.688	-23.6	H	3.0	37.3	1.0	-60.0	-13.0	-47.0	
	2.532	-25.4	H	3.0	36.3	1.0	-60.7	-13.0	-47.7	
	3.376	-23.4	H	3.0	35.7	1.0	-58.1	-13.0	-45.1	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		LG Electronics 15I19834 01/30/15 James Jackson EUT w/ AC Adaptor + HS, X-pos LTE5 10MHz QPSK HARM								
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T34 8449B	Filter 1	Part 22					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	(dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE5 10MHz QPSK	Low Ch, 829MHz									
	1.658	-22.3	V	3.0	37.4	1.0	-58.7	-13.0	-45.7	
	2.487	-22.4	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
	3.316	-23.4	V	3.0	35.8	1.0	-58.2	-13.0	-45.2	
	1.658	-24.4	H	3.0	37.4	1.0	-60.8	-13.0	-47.8	
	2.487	-25.3	H	3.0	36.4	1.0	-60.7	-13.0	-47.7	
	3.316	-24.0	H	3.0	35.8	1.0	-58.7	-13.0	-45.7	
	Mid Ch, 836.5MHz									
	1.673	-25.5	V	3.0	37.3	1.0	-61.9	-13.0	-48.9	
	2.510	-19.4	V	3.0	36.4	1.0	-54.7	-13.0	-41.7	
	3.346	-24.0	V	3.0	35.8	1.0	-58.7	-13.0	-45.7	
	1.673	-27.6	H	3.0	37.3	1.0	-63.9	-13.0	-50.9	
	2.510	-24.4	H	3.0	36.4	1.0	-59.7	-13.0	-46.7	
	3.346	-23.0	H	3.0	35.8	1.0	-57.8	-13.0	-44.8	
	High Ch, 844 MHz									
	1.688	-23.5	V	3.0	37.3	1.0	-59.9	-13.0	-46.9	
	2.532	-23.0	V	3.0	36.3	1.0	-58.3	-13.0	-45.3	
	3.376	-23.2	V	3.0	35.7	1.0	-57.9	-13.0	-44.9	
1.688	-24.7	H	3.0	37.3	1.0	-61.0	-13.0	-48.0		
2.532	-25.9	H	3.0	36.3	1.0	-61.3	-13.0	-48.3		
3.376	-24.1	H	3.0	35.7	1.0	-58.8	-13.0	-45.8		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company: LG Electronics Project #: 15I19834 Date: 01/30/15 Test Engineer: James Jackson Configuration: EUT w/ AC Adaptor + HS, X-pos Mode: LTE5 5MHz 16QAM HARM										
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T34 8449B	Filter 1	Part 22					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE5 5MHz 16QAM	Low Ch, 826.5MHz									
	1.653	-26.3	V	3.0	37.4	1.0	-62.7	-13.0	-49.7	
	2.480	-23.5	V	3.0	36.4	1.0	-58.9	-13.0	-45.9	
	3.306	-23.6	V	3.0	35.8	1.0	-58.4	-13.0	-45.4	
	1.653	-26.5	H	3.0	37.4	1.0	-62.9	-13.0	-49.9	
	2.480	-26.2	H	3.0	36.4	1.0	-61.6	-13.0	-48.6	
	3.306	-23.3	H	3.0	35.8	1.0	-58.1	-13.0	-45.1	
	Mid Ch, 836.5MHz									
	1.673	-21.6	V	3.0	37.3	1.0	-57.9	-13.0	-44.9	
	2.510	-22.6	V	3.0	36.4	1.0	-57.9	-13.0	-44.9	
	3.346	-22.9	V	3.0	35.8	1.0	-57.7	-13.0	-44.7	
	1.673	-24.8	H	3.0	37.3	1.0	-61.1	-13.0	-48.1	
	2.510	-25.7	H	3.0	36.4	1.0	-61.0	-13.0	-48.0	
	3.346	-23.6	H	3.0	35.8	1.0	-58.3	-13.0	-45.3	
	High Ch, 846.5MHz									
	1.693	-24.7	V	3.0	37.3	1.0	-61.0	-13.0	-48.0	
	2.540	-23.3	V	3.0	36.3	1.0	-58.6	-13.0	-45.6	
	3.386	-23.6	V	3.0	35.7	1.0	-58.3	-13.0	-45.3	
	1.693	-25.3	H	3.0	37.3	1.0	-61.6	-13.0	-48.6	
	2.540	-25.7	H	3.0	36.3	1.0	-61.0	-13.0	-48.0	
	3.386	-24.1	H	3.0	35.7	1.0	-58.8	-13.0	-45.8	
	Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		LG Electronics 15I19834 01/30/15 James Jackson EUT w/ AC Adaptor + HS, X-pos LTE5 5MHz QPSK HARM								
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T34 8449B	Filter 1	Part 22					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	(dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE5 5MHz QPSK	Low Ch, 826.5MHz									
	1.653	-25.5	V	3.0	37.4	1.0	-61.9	-13.0	-48.9	
	2.480	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
	3.306	-23.9	V	3.0	35.8	1.0	-58.7	-13.0	-45.7	
	1.653	-26.2	H	3.0	37.4	1.0	-62.6	-13.0	-49.6	
	2.480	-25.6	H	3.0	36.4	1.0	-60.9	-13.0	-47.9	
	3.306	-22.3	H	3.0	35.8	1.0	-57.1	-13.0	-44.1	
	Mid Ch, 836.5MHz									
	1.673	-20.9	V	3.0	37.3	1.0	-57.3	-13.0	-44.3	
	2.510	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	3.346	-23.0	V	3.0	35.8	1.0	-57.7	-13.0	-44.7	
	1.673	-24.8	H	3.0	37.3	1.0	-61.1	-13.0	-48.1	
	2.510	-24.8	H	3.0	36.4	1.0	-60.2	-13.0	-47.2	
	3.346	-23.3	H	3.0	35.8	1.0	-58.1	-13.0	-45.1	
	High Ch, 846.5 MHz									
	1.693	-23.9	V	3.0	37.3	1.0	-60.3	-13.0	-47.3	
	2.540	-23.5	V	3.0	36.3	1.0	-58.8	-13.0	-45.8	
	3.386	-23.4	V	3.0	35.7	1.0	-58.1	-13.0	-45.1	
	1.693	-25.0	H	3.0	37.3	1.0	-61.3	-13.0	-48.3	
	2.540	-23.2	H	3.0	36.3	1.0	-58.5	-13.0	-45.5	
3.386	-24.0	H	3.0	35.7	1.0	-58.7	-13.0	-45.7		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		LG Electronics 15I19834 01/30/15 J. Jackson EUT w/ AC Adapter + HS, X-position LTE5_3M_16QAM								
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T34 8449B	Filter 1	Part 22					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	(dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE5 3MHz 16QAM	Low Ch, 825.5MHz									
	1.65	-25.6	V	3.0	37.4	1.0	-62.0	-13.0	-49.0	
	2.48	-24.1	V	3.0	36.4	1.0	-59.5	-13.0	-46.5	
	3.30	-23.9	V	3.0	35.8	1.0	-58.7	-13.0	-45.7	
	1.65	-25.9	H	3.0	37.4	1.0	-62.3	-13.0	-49.3	
	2.48	-26.1	H	3.0	36.4	1.0	-61.5	-13.0	-48.5	
	3.30	-23.6	H	3.0	35.8	1.0	-58.4	-13.0	-45.4	
	Mid Ch, 836.5MHz									
	1.673	-21.3	V	3.0	37.3	1.0	-57.6	-13.0	-44.6	
	2.510	-23.6	V	3.0	36.4	1.0	-58.9	-13.0	-45.9	
	3.346	-23.5	V	3.0	35.8	1.0	-58.3	-13.0	-45.3	
	1.673	-24.4	H	3.0	37.3	1.0	-60.8	-13.0	-47.8	
	2.510	-24.9	H	3.0	36.4	1.0	-60.3	-13.0	-47.3	
	3.346	-22.9	H	3.0	35.8	1.0	-57.6	-13.0	-44.6	
	High Ch, 847.5 MHz									
	1.70	-24.0	V	3.0	37.3	1.0	-60.3	-13.0	-47.3	
	2.54	-22.3	V	3.0	36.3	1.0	-57.6	-13.0	-44.6	
	3.39	-23.4	V	3.0	35.7	1.0	-58.1	-13.0	-45.1	
	1.70	-23.6	H	3.0	37.3	1.0	-59.9	-13.0	-46.9	
	2.54	-24.5	H	3.0	36.3	1.0	-59.8	-13.0	-46.8	
3.39	-23.6	H	3.0	35.7	1.0	-58.3	-13.0	-45.3		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		LG Electronics 15I19834 01/30/15 J. Jackson EUT w/ AC Adapter + HS, X-position LTE5_3M_QPSK								
		Chamber	Pre-amplifier	Filter	Limit					
		3m Chamber	T34 8449B	Filter 1	Part 22					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	(dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE5 3MHz QPSK	Low Ch, 825.5MHz									
	1.65	-25.2	V	3.0	37.4	1.0	-61.6	-13.0	-48.6	
	2.48	-24.1	V	3.0	36.4	1.0	-59.4	-13.0	-46.4	
	3.30	-24.3	V	3.0	35.8	1.0	-59.1	-13.0	-46.1	
	1.65	-26.4	H	3.0	37.4	1.0	-62.8	-13.0	-49.8	
	2.48	-26.8	H	3.0	36.4	1.0	-62.1	-13.0	-49.1	
	3.30	-23.6	H	3.0	35.8	1.0	-58.4	-13.0	-45.4	
	Mid Ch, 836.5MHz									
	1.673	-21.1	V	3.0	37.3	1.0	-57.4	-13.0	-44.4	
	2.510	-24.0	V	3.0	36.4	1.0	-59.4	-13.0	-46.4	
	3.346	-23.8	V	3.0	35.8	1.0	-58.6	-13.0	-45.6	
	1.673	-24.1	H	3.0	37.3	1.0	-60.5	-13.0	-47.5	
	2.510	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
	3.346	-23.2	H	3.0	35.8	1.0	-57.9	-13.0	-44.9	
	High Ch, 847.5 MHz									
	1.70	-25.3	V	3.0	37.3	1.0	-61.6	-13.0	-48.6	
	2.54	-22.9	V	3.0	36.3	1.0	-58.3	-13.0	-45.3	
	3.39	-23.6	V	3.0	35.7	1.0	-58.3	-13.0	-45.3	
	1.70	-23.3	H	3.0	37.3	1.0	-59.6	-13.0	-46.6	
	2.54	-25.6	H	3.0	36.3	1.0	-60.9	-13.0	-47.9	
3.39	-23.6	H	3.0	35.7	1.0	-58.3	-13.0	-45.3		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																																											
Company: Project #: Date: Test Engineer: Configuration: Mode:		LG Electronics 15I19834 01/30/15 J. Jackson EUT w/ AC Adapter + HS, X-position LTE5 1.4MHz 16QAM HARM																																																																																																																																																																																																																																																									
		Chamber	Pre-amplifier	Filter	Limit																																																																																																																																																																																																																																																						
		3m Chamber	T34 8449B	Filter 1	Part 22																																																																																																																																																																																																																																																						
Band LTE5 1.4MHz 16QAM	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.8em;"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th></th> <th>(dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="11" style="background-color: #f2f2f2;">Low Ch, 824.7MHz</td> </tr> <tr> <td>1.65</td> <td>-25.7</td> <td>V</td> <td>3.0</td> <td></td> <td>37.4</td> <td>1.0</td> <td>-62.1</td> <td>-13.0</td> <td>-49.1</td> <td></td> </tr> <tr> <td>2.47</td> <td>-23.3</td> <td>V</td> <td>3.0</td> <td></td> <td>36.4</td> <td>1.0</td> <td>-58.6</td> <td>-13.0</td> <td>-45.6</td> <td></td> </tr> <tr> <td>3.30</td> <td>-23.2</td> <td>V</td> <td>3.0</td> <td></td> <td>35.8</td> <td>1.0</td> <td>-58.0</td> <td>-13.0</td> <td>-45.0</td> <td></td> </tr> <tr> <td>1.65</td> <td>-27.1</td> <td>H</td> <td>3.0</td> <td></td> <td>37.4</td> <td>1.0</td> <td>-63.5</td> <td>-13.0</td> <td>-50.5</td> <td></td> </tr> <tr> <td>2.47</td> <td>-25.8</td> <td>H</td> <td>3.0</td> <td></td> <td>36.4</td> <td>1.0</td> <td>-61.2</td> <td>-13.0</td> <td>-48.2</td> <td></td> </tr> <tr> <td>3.30</td> <td>-24.0</td> <td>H</td> <td>3.0</td> <td></td> <td>35.8</td> <td>1.0</td> <td>-58.8</td> <td>-13.0</td> <td>-45.8</td> <td></td> </tr> <tr> <td colspan="11" style="background-color: #f2f2f2;">Mid Ch, 836.5MHz</td> </tr> <tr> <td>1.673</td> <td>-24.9</td> <td>V</td> <td>3.0</td> <td></td> <td>37.3</td> <td>1.0</td> <td>-61.2</td> <td>-13.0</td> <td>-48.2</td> <td></td> </tr> <tr> <td>2.510</td> <td>-23.2</td> <td>V</td> <td>3.0</td> <td></td> <td>36.4</td> <td>1.0</td> <td>-58.6</td> <td>-13.0</td> <td>-45.6</td> <td></td> </tr> <tr> <td>3.346</td> <td>-23.8</td> <td>V</td> <td>3.0</td> <td></td> <td>35.8</td> <td>1.0</td> <td>-58.6</td> <td>-13.0</td> <td>-45.6</td> <td></td> </tr> <tr> <td>1.673</td> <td>-24.7</td> <td>H</td> <td>3.0</td> <td></td> <td>37.3</td> <td>1.0</td> <td>-61.0</td> <td>-13.0</td> <td>-48.0</td> <td></td> </tr> <tr> <td>2.510</td> <td>-24.2</td> <td>H</td> <td>3.0</td> <td></td> <td>36.4</td> <td>1.0</td> <td>-59.6</td> <td>-13.0</td> <td>-46.6</td> <td></td> </tr> <tr> <td>3.346</td> <td>-23.7</td> <td>H</td> <td>3.0</td> <td></td> <td>35.8</td> <td>1.0</td> <td>-58.5</td> <td>-13.0</td> <td>-45.5</td> <td></td> </tr> <tr> <td colspan="11" style="background-color: #f2f2f2;">High Ch, 848.3 MHz</td> </tr> <tr> <td>1.70</td> <td>-24.2</td> <td>V</td> <td>3.0</td> <td></td> <td>37.3</td> <td>1.0</td> <td>-60.5</td> <td>-13.0</td> <td>-47.5</td> <td></td> </tr> <tr> <td>2.54</td> <td>-22.3</td> <td>V</td> <td>3.0</td> <td></td> <td>36.3</td> <td>1.0</td> <td>-57.7</td> <td>-13.0</td> <td>-44.7</td> <td></td> </tr> <tr> <td>3.39</td> <td>-23.7</td> <td>V</td> <td>3.0</td> <td></td> <td>35.7</td> <td>1.0</td> <td>-58.4</td> <td>-13.0</td> <td>-45.4</td> <td></td> </tr> <tr> <td>1.70</td> <td>-23.1</td> <td>H</td> <td>3.0</td> <td></td> <td>37.3</td> <td>1.0</td> <td>-59.4</td> <td>-13.0</td> <td>-46.4</td> <td></td> </tr> <tr> <td>2.54</td> <td>-26.3</td> <td>H</td> <td>3.0</td> <td></td> <td>36.3</td> <td>1.0</td> <td>-61.6</td> <td>-13.0</td> <td>-48.6</td> <td></td> </tr> <tr> <td>3.39</td> <td>-23.4</td> <td>H</td> <td>3.0</td> <td></td> <td>35.7</td> <td>1.0</td> <td>-58.1</td> <td>-13.0</td> <td>-45.1</td> <td></td> </tr> </tbody> </table>									f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)		(dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, 824.7MHz											1.65	-25.7	V	3.0		37.4	1.0	-62.1	-13.0	-49.1		2.47	-23.3	V	3.0		36.4	1.0	-58.6	-13.0	-45.6		3.30	-23.2	V	3.0		35.8	1.0	-58.0	-13.0	-45.0		1.65	-27.1	H	3.0		37.4	1.0	-63.5	-13.0	-50.5		2.47	-25.8	H	3.0		36.4	1.0	-61.2	-13.0	-48.2		3.30	-24.0	H	3.0		35.8	1.0	-58.8	-13.0	-45.8		Mid Ch, 836.5MHz											1.673	-24.9	V	3.0		37.3	1.0	-61.2	-13.0	-48.2		2.510	-23.2	V	3.0		36.4	1.0	-58.6	-13.0	-45.6		3.346	-23.8	V	3.0		35.8	1.0	-58.6	-13.0	-45.6		1.673	-24.7	H	3.0		37.3	1.0	-61.0	-13.0	-48.0		2.510	-24.2	H	3.0		36.4	1.0	-59.6	-13.0	-46.6		3.346	-23.7	H	3.0		35.8	1.0	-58.5	-13.0	-45.5		High Ch, 848.3 MHz											1.70	-24.2	V	3.0		37.3	1.0	-60.5	-13.0	-47.5		2.54	-22.3	V	3.0		36.3	1.0	-57.7	-13.0	-44.7		3.39	-23.7	V	3.0		35.7	1.0	-58.4	-13.0	-45.4		1.70	-23.1	H	3.0		37.3	1.0	-59.4	-13.0	-46.4		2.54	-26.3	H	3.0		36.3	1.0	-61.6	-13.0	-48.6		3.39	-23.4	H	3.0		35.7	1.0	-58.1	-13.0	-45.1	
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)		(dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																																																																	
Low Ch, 824.7MHz																																																																																																																																																																																																																																																											
1.65	-25.7	V	3.0		37.4	1.0	-62.1	-13.0	-49.1																																																																																																																																																																																																																																																		
2.47	-23.3	V	3.0		36.4	1.0	-58.6	-13.0	-45.6																																																																																																																																																																																																																																																		
3.30	-23.2	V	3.0		35.8	1.0	-58.0	-13.0	-45.0																																																																																																																																																																																																																																																		
1.65	-27.1	H	3.0		37.4	1.0	-63.5	-13.0	-50.5																																																																																																																																																																																																																																																		
2.47	-25.8	H	3.0		36.4	1.0	-61.2	-13.0	-48.2																																																																																																																																																																																																																																																		
3.30	-24.0	H	3.0		35.8	1.0	-58.8	-13.0	-45.8																																																																																																																																																																																																																																																		
Mid Ch, 836.5MHz																																																																																																																																																																																																																																																											
1.673	-24.9	V	3.0		37.3	1.0	-61.2	-13.0	-48.2																																																																																																																																																																																																																																																		
2.510	-23.2	V	3.0		36.4	1.0	-58.6	-13.0	-45.6																																																																																																																																																																																																																																																		
3.346	-23.8	V	3.0		35.8	1.0	-58.6	-13.0	-45.6																																																																																																																																																																																																																																																		
1.673	-24.7	H	3.0		37.3	1.0	-61.0	-13.0	-48.0																																																																																																																																																																																																																																																		
2.510	-24.2	H	3.0		36.4	1.0	-59.6	-13.0	-46.6																																																																																																																																																																																																																																																		
3.346	-23.7	H	3.0		35.8	1.0	-58.5	-13.0	-45.5																																																																																																																																																																																																																																																		
High Ch, 848.3 MHz																																																																																																																																																																																																																																																											
1.70	-24.2	V	3.0		37.3	1.0	-60.5	-13.0	-47.5																																																																																																																																																																																																																																																		
2.54	-22.3	V	3.0		36.3	1.0	-57.7	-13.0	-44.7																																																																																																																																																																																																																																																		
3.39	-23.7	V	3.0		35.7	1.0	-58.4	-13.0	-45.4																																																																																																																																																																																																																																																		
1.70	-23.1	H	3.0		37.3	1.0	-59.4	-13.0	-46.4																																																																																																																																																																																																																																																		
2.54	-26.3	H	3.0		36.3	1.0	-61.6	-13.0	-48.6																																																																																																																																																																																																																																																		
3.39	-23.4	H	3.0		35.7	1.0	-58.1	-13.0	-45.1																																																																																																																																																																																																																																																		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.																																																																																																																																																																																																																																																											

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement											
Company:		LG Electronics									
Project #:		15I19834									
Date:		01/30/15									
Test Engineer:		J. Jackson									
Configuration:		EUT w/ AC Adapter + HS, X-position									
Mode:		LTE5 1.4MHz QPSK HARM									
		Chamber		Pre-amplifier		Filter		Limit			
		3m Chamber		T34 8449B		Filter 1		Part 22			
Band		f	SG reading	Ant. Pol.	Distance		Filter	EIRP	Limit	Delta	Notes
		GHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
LTE5		Low Ch, 824.7MHz									
1.4MHz		1.65	-26.1	V	3.0	37.4	1.0	-62.4	-13.0	-49.4	
		2.47	-22.7	V	3.0	36.4	1.0	-58.1	-13.0	-45.1	
QPSK		3.30	-23.6	V	3.0	35.8	1.0	-58.4	-13.0	-45.4	
		1.65	-26.5	H	3.0	37.4	1.0	-62.9	-13.0	-49.9	
		2.47	-26.0	H	3.0	36.4	1.0	-61.4	-13.0	-48.4	
		3.30	-24.0	H	3.0	35.8	1.0	-58.8	-13.0	-45.8	
		Mid Ch, 836.5MHz									
		1.673	-24.3	V	3.0	37.3	1.0	-60.6	-13.0	-47.6	
		2.510	-23.4	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
		3.346	-23.9	V	3.0	35.8	1.0	-58.7	-13.0	-45.7	
		1.673	-25.2	H	3.0	37.3	1.0	-61.5	-13.0	-48.5	
		2.510	-25.9	H	3.0	36.4	1.0	-61.3	-13.0	-48.3	
		3.346	-23.6	H	3.0	35.8	1.0	-58.3	-13.0	-45.3	
		High Ch, 848.3 MHz									
		1.70	-24.2	V	3.0	37.3	1.0	-60.5	-13.0	-47.5	
		2.54	-23.1	V	3.0	36.3	1.0	-58.5	-13.0	-45.5	
		3.39	-23.7	V	3.0	35.7	1.0	-58.4	-13.0	-45.4	
		1.70	-23.0	H	3.0	37.3	1.0	-59.3	-13.0	-46.3	
		2.54	-25.1	H	3.0	36.3	1.0	-60.5	-13.0	-47.5	
		3.39	-23.2	H	3.0	35.7	1.0	-57.9	-13.0	-44.9	

UL Verification Services Chamber B										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I19834								
Date:		02/02/15								
Test Engineer:		R.Zheng								
Configuration:		EUT , AC Adapter								
Location:		Chamber C								
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	-15.5	V	3.0	37.4	1.0	-51.8	-13.0	-38.8	
	2099.10	-3.0	V	3.0	36.6	1.0	-38.5	-13.0	-25.5	
	2798.80	-22.5	V	3.0	36.4	1.0	-57.9	-13.0	-44.9	
	1399.40	-15.1	H	3.0	37.4	1.0	-51.5	-13.0	-38.5	
	2099.10	-4.0	H	3.0	36.6	1.0	-39.5	-13.0	-26.5	
	2798.80	-20.0	H	3.0	36.4	1.0	-55.4	-13.0	-42.4	
	Mid Ch, 707.50									
	1415.00	-12.8	V	3.0	37.3	1.0	-49.1	-13.0	-36.1	
	2122.00	-4.6	V	3.0	36.6	1.0	-40.2	-13.0	-27.2	
	2830.00	-19.2	V	3.0	36.4	1.0	-54.6	-13.0	-41.6	
	1415.00	-13.5	H	3.0	37.3	1.0	-49.8	-13.0	-36.8	
	2122.00	-6.4	H	3.0	36.6	1.0	-42.0	-13.0	-29.0	
	2830.00	-17.3	H	3.0	36.4	1.0	-52.7	-13.0	-39.7	
	High Ch, 715.3									
	1430.60	-16.4	V	3.0	37.3	1.0	-52.8	-13.0	-39.8	
	2145.90	-8.3	V	3.0	36.6	1.0	-43.8	-13.0	-30.8	
	2861.20	-20.5	V	3.0	36.4	1.0	-55.9	-13.0	-42.9	
	1430.60	-18.2	H	3.0	37.3	1.0	-54.6	-13.0	-41.6	
	2145.90	-9.3	H	3.0	36.6	1.0	-44.8	-13.0	-31.8	
	2861.20	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3	

LTE Band 25

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15119834 Date: 1/29/2015 Test Engineer: D. Sblendorio Configuration: EUT/ AC Charger/ Headset Location: Chamber C Mode: LTE_16QAM Band 25 Harmonics, 20MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
3720.00	-11.0	V	3.0	35.8	1.0	-45.8	-13.0	-32.8	
5580.00	-7.4	V	3.0	35.5	1.0	-41.9	-13.0	-28.9	
7440.00	-1.4	V	3.0	35.7	1.0	-36.2	-13.0	-23.2	
3720.00	-10.8	H	3.0	35.8	1.0	-45.6	-13.0	-32.6	
5580.00	-6.5	H	3.0	35.5	1.0	-41.0	-13.0	-28.0	
7440.00	-0.5	H	3.0	35.7	1.0	-35.2	-13.0	-22.2	
Mid Ch, 1882.5									
3765.00	-9.9	V	3.0	35.8	1.0	-44.7	-13.0	-31.7	
5647.50	-7.1	V	3.0	35.5	1.0	-41.5	-13.0	-28.5	
7530.00	-2.5	V	3.0	35.7	1.0	-37.2	-13.0	-24.2	
3765.00	-10.5	H	3.0	35.8	1.0	-45.3	-13.0	-32.3	
5647.50	-5.1	H	3.0	35.5	1.0	-39.6	-13.0	-26.6	
7530.00	-1.8	H	3.0	35.7	1.0	-36.5	-13.0	-23.5	
High Ch, 1905									
3810.00	-9.7	V	3.0	35.8	1.0	-44.5	-13.0	-31.5	
5715.00	-6.9	V	3.0	35.5	1.0	-41.4	-13.0	-28.4	
7620.00	-0.8	V	3.0	35.8	1.0	-35.5	-13.0	-22.5	
3810.00	-10.4	H	3.0	35.8	1.0	-45.2	-13.0	-32.2	
5715.00	-6.6	H	3.0	35.5	1.0	-41.1	-13.0	-28.1	
7620.00	-0.9	H	3.0	35.8	1.0	-35.6	-13.0	-22.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/29/2015 Test Engineer: D. Sblendorio Configuration: 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									
3715.00	-10.1	V	3.0	35.8	1.0	-44.9	-13.0	-31.9	
5572.50	-7.1	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
7430.00	-2.0	V	3.0	35.7	1.0	-36.7	-13.0	-23.7	
3715.00	-11.4	H	3.0	35.8	1.0	-46.2	-13.0	-33.2	
5572.50	-7.3	H	3.0	35.5	1.0	-41.8	-13.0	-28.8	
7430.00	-0.9	H	3.0	35.7	1.0	-35.6	-13.0	-22.6	
Mid Ch, 1882.5									
3815.00	-10.4	V	3.0	35.8	1.0	-45.2	-13.0	-32.2	
5722.50	-7.3	V	3.0	35.5	1.0	-41.8	-13.0	-28.8	
7630.00	-2.2	V	3.0	35.7	1.0	-37.0	-13.0	-24.0	
3815.00	-9.5	H	3.0	35.8	1.0	-44.3	-13.0	-31.3	
5722.50	-6.5	H	3.0	35.5	1.0	-41.0	-13.0	-28.0	
7630.00	-1.8	H	3.0	35.7	1.0	-36.5	-13.0	-23.5	
High Ch, 1907.5									
3815.00	-10.2	V	3.0	35.8	1.0	-45.0	-13.0	-32.0	
5722.50	-6.5	V	3.0	35.5	1.0	-41.0	-13.0	-28.0	
7630.00	-1.2	V	3.0	35.8	1.0	-36.0	-13.0	-23.0	
3815.00	-9.4	H	3.0	35.8	1.0	-44.2	-13.0	-31.2	
5722.50	-6.1	H	3.0	35.5	1.0	-40.6	-13.0	-27.6	
7630.00	-0.2	H	3.0	35.8	1.0	-35.0	-13.0	-22.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/29/2015 Test Engineer: D. Sblendorio Configuration: 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)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1855									
3710.00	-10.7	V	3.0	35.9	1.0	-45.5	-13.0	-32.5	
5565.00	-7.3	V	3.0	35.5	1.0	-41.8	-13.0	-28.8	
7420.00	-2.2	V	3.0	35.7	1.0	-36.9	-13.0	-23.9	
3710.00	-10.0	H	3.0	35.9	1.0	-44.9	-13.0	-31.9	
5565.00	-6.6	H	3.0	35.5	1.0	-41.1	-13.0	-28.1	
7420.00	-1.2	H	3.0	35.7	1.0	-35.9	-13.0	-22.9	
Mid Ch, 1882.5									
3765.00	-9.6	V	3.0	35.8	1.0	-44.4	-13.0	-31.4	
5647.50	-7.1	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
7530.00	-2.2	V	3.0	35.7	1.0	-37.0	-13.0	-24.0	
3765.00	-11.3	H	3.0	35.8	1.0	-46.2	-13.0	-33.2	
5647.50	-6.9	H	3.0	35.5	1.0	-41.4	-13.0	-28.4	
7530.00	-1.2	H	3.0	35.7	1.0	-36.0	-13.0	-23.0	
High Ch, 1910									
3820.00	-11.1	V	3.0	35.8	1.0	-45.9	-13.0	-32.9	
5730.00	-6.4	V	3.0	35.5	1.0	-40.9	-13.0	-27.9	
7640.00	-1.3	V	3.0	35.8	1.0	-36.1	-13.0	-23.1	
3820.00	-10.3	H	3.0	35.8	1.0	-45.0	-13.0	-32.0	
5730.00	-6.1	H	3.0	35.5	1.0	-40.6	-13.0	-27.6	
7640.00	0.0	H	3.0	35.8	1.0	-34.7	-13.0	-21.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/29/2015 Test Engineer: D. Sblendorio Configuration: 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									
3710.00	-10.3	V	3.0	35.9	1.0	-45.2	-13.0	-32.2	
5565.00	-7.5	V	3.0	35.5	1.0	-42.0	-13.0	-29.0	
7420.00	-0.8	V	3.0	35.7	1.0	-35.5	-13.0	-22.5	
3710.00	-10.8	H	3.0	35.9	1.0	-45.6	-13.0	-32.6	
5565.00	-6.9	H	3.0	35.5	1.0	-41.4	-13.0	-28.4	
7420.00	-1.5	H	3.0	35.7	1.0	-36.2	-13.0	-23.2	
Mid Ch, 1882.5									
3765.00	-10.1	V	3.0	35.8	1.0	-44.9	-13.0	-31.9	
5647.50	-6.8	V	3.0	35.5	1.0	-41.3	-13.0	-28.3	
7530.00	-2.5	V	3.0	35.7	1.0	-37.3	-13.0	-24.3	
3765.00	-10.7	H	3.0	35.8	1.0	-45.5	-13.0	-32.5	
5647.50	-7.1	H	3.0	35.5	1.0	-41.6	-13.0	-28.6	
7530.00	-1.5	H	3.0	35.7	1.0	-36.3	-13.0	-23.3	
High Ch, 1910									
3820.00	-9.8	V	3.0	35.8	1.0	-44.6	-13.0	-31.6	
5730.00	-6.7	V	3.0	35.5	1.0	-41.2	-13.0	-28.2	
7640.00	-1.7	V	3.0	35.8	1.0	-36.5	-13.0	-23.5	
3820.00	-9.6	H	3.0	35.8	1.0	-44.4	-13.0	-31.4	
5730.00	-5.7	H	3.0	35.5	1.0	-40.2	-13.0	-27.2	
7640.00	-1.1	H	3.0	35.8	1.0	-35.8	-13.0	-22.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/29/2015 Test Engineer: D. Sblendorio Configuration: 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
Low Ch, 1852.5									
3705.00	-9.9	V	3.0	35.9	1.0	-44.7	-13.0	-31.7	
5557.50	-7.3	V	3.0	35.5	1.0	-41.8	-13.0	-28.8	
7410.00	-1.6	V	3.0	35.7	1.0	-36.4	-13.0	-23.4	
3705.00	-10.6	H	3.0	35.9	1.0	-45.4	-13.0	-32.4	
5557.50	-6.9	H	3.0	35.5	1.0	-41.4	-13.0	-28.4	
7410.00	-1.2	H	3.0	35.7	1.0	-36.0	-13.0	-23.0	
Mid Ch, 1882.5									
3765.00	-10.5	V	3.0	35.8	1.0	-45.3	-13.0	-32.3	
5647.50	-7.0	V	3.0	35.5	1.0	-41.5	-13.0	-28.5	
7530.00	-1.8	V	3.0	35.7	1.0	-36.6	-13.0	-23.6	
3765.00	-9.5	H	3.0	35.8	1.0	-44.3	-13.0	-31.3	
5647.50	-6.7	H	3.0	35.5	1.0	-41.2	-13.0	-28.2	
7530.00	-1.1	H	3.0	35.7	1.0	-35.8	-13.0	-22.8	
High Ch, 1912.5									
3825.00	-9.8	V	3.0	35.8	1.0	-44.6	-13.0	-31.6	
5737.50	-6.5	V	3.0	35.5	1.0	-41.0	-13.0	-28.0	
7650.00	-1.6	V	3.0	35.8	1.0	-36.4	-13.0	-23.4	
3825.00	-9.9	H	3.0	35.8	1.0	-44.7	-13.0	-31.7	
5737.50	-6.0	H	3.0	35.5	1.0	-40.5	-13.0	-27.5	
7650.00	-0.7	H	3.0	35.8	1.0	-35.5	-13.0	-22.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/29/2015 Test Engineer: D. Sblendorio Configuration: 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									
3703.00	-12.0	V	3.0	35.9	1.0	-46.9	-13.0	-33.9	
5554.50	-10.4	V	3.0	35.5	1.0	-44.9	-13.0	-31.9	
7406.00	-5.4	V	3.0	35.7	1.0	-40.1	-13.0	-27.1	
3703.00	-9.4	H	3.0	35.9	1.0	-44.3	-13.0	-31.3	
5554.50	-6.5	H	3.0	35.5	1.0	-41.0	-13.0	-28.0	
7406.00	-0.6	H	3.0	35.7	1.0	-35.3	-13.0	-22.3	
Mid Ch, 1882.5									
3765.00	-1.1	V	3.0	35.8	1.0	-35.9	-13.0	-22.9	
5647.50	2.3	V	3.0	35.5	1.0	-32.2	-13.0	-19.2	
7530.00	8.2	V	3.0	35.7	1.0	-26.6	-13.0	-13.6	
3765.00	-10.2	H	3.0	35.8	1.0	-45.0	-13.0	-32.0	
5647.50	-6.2	H	3.0	35.5	1.0	-40.7	-13.0	-27.7	
7530.00	-1.6	H	3.0	35.7	1.0	-36.3	-13.0	-23.3	
High Ch, 1913.5									
3827.00	-9.5	V	3.0	35.8	1.0	-44.3	-13.0	-31.3	
5740.50	-6.3	V	3.0	35.5	1.0	-40.8	-13.0	-27.8	
7654.00	-0.6	V	3.0	35.8	1.0	-35.4	-13.0	-22.4	
3827.00	-9.9	H	3.0	35.8	1.0	-44.7	-13.0	-31.7	
5740.50	-5.5	H	3.0	35.5	1.0	-40.0	-13.0	-27.0	
7654.00	0.1	H	3.0	35.8	1.0	-34.7	-13.0	-21.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/29/2015 Test Engineer: D. Sblendorio Configuration: 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									
3703.00	-11.5	V	3.0	35.9	1.0	-46.4	-13.0	-33.4	
5554.50	-11.1	V	3.0	35.5	1.0	-45.6	-13.0	-32.6	
7406.00	-5.5	V	3.0	35.7	1.0	-40.2	-13.0	-27.2	
3703.00	-10.5	H	3.0	35.9	1.0	-45.4	-13.0	-32.4	
5554.50	-6.5	H	3.0	35.5	1.0	-41.0	-13.0	-28.0	
7406.00	-1.3	H	3.0	35.7	1.0	-36.0	-13.0	-23.0	
Mid Ch, 1882.5									
3765.00	-0.5	V	3.0	35.8	1.0	-35.3	-13.0	-22.3	
5647.50	2.5	V	3.0	35.5	1.0	-32.0	-13.0	-19.0	
7530.00	7.2	V	3.0	35.7	1.0	-27.5	-13.0	-14.5	
3765.00	-10.0	H	3.0	35.8	1.0	-44.8	-13.0	-31.8	
5647.50	-5.3	H	3.0	35.5	1.0	-39.8	-13.0	-26.8	
7530.00	-0.6	H	3.0	35.7	1.0	-35.4	-13.0	-22.4	
High Ch, 1913.5									
3827.00	-9.4	V	3.0	35.8	1.0	-44.1	-13.0	-31.1	
5740.50	-5.7	V	3.0	35.5	1.0	-40.2	-13.0	-27.2	
7654.00	-1.3	V	3.0	35.8	1.0	-36.0	-13.0	-23.0	
3827.00	-9.9	H	3.0	35.8	1.0	-44.7	-13.0	-31.7	
5740.50	-5.5	H	3.0	35.5	1.0	-40.0	-13.0	-27.0	
7654.00	-0.6	H	3.0	35.8	1.0	-35.3	-13.0	-22.3	

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/27/2015 Test Engineer: D. Sblendorio Configuration: EUT/ AC Charger/ Headset Location: Chamber C Mode: LTE_16QAM Band 25 Harmonics, 1.4MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE25	Low Ch, 1850.7									
	3701.40	-9.7	V	3.0	35.9	1.0	-44.5	-13.0	-31.5	
1.4MHz	5552.10	-7.4	V	3.0	35.5	1.0	-41.9	-13.0	-28.9	
	7402.80	-0.8	V	3.0	35.7	1.0	-35.5	-13.0	-22.5	
16QAM	3701.40	-10.6	H	3.0	35.9	1.0	-45.4	-13.0	-32.4	
	5552.10	-7.0	H	3.0	35.5	1.0	-41.5	-13.0	-28.5	
	7402.80	-0.2	H	3.0	35.7	1.0	-34.9	-13.0	-21.9	
	Mid Ch, 1882.5									
	3765.00	-9.9	V	3.0	35.8	1.0	-44.7	-13.0	-31.7	
	5647.50	-7.1	V	3.0	35.5	1.0	-41.6	-13.0	-28.6	
	7530.00	-2.2	V	3.0	35.7	1.0	-37.0	-13.0	-24.0	
	3765.00	-9.6	H	3.0	35.8	1.0	-44.4	-13.0	-31.4	
	5647.50	-4.3	H	3.0	35.5	1.0	-38.8	-13.0	-25.8	
	7530.00	-1.0	H	3.0	35.7	1.0	-35.7	-13.0	-22.7	
	High Ch, 1914.3									
	3828.60	-9.3	V	3.0	35.8	1.0	-44.0	-13.0	-31.0	
	5742.90	-5.8	V	3.0	35.5	1.0	-40.3	-13.0	-27.3	
	7657.20	-0.9	V	3.0	35.8	1.0	-35.6	-13.0	-22.6	
	3828.60	-11.1	H	3.0	35.8	1.0	-45.9	-13.0	-32.9	
	5742.90	-6.8	H	3.0	35.5	1.0	-41.3	-13.0	-28.3	
	7657.20	0.6	H	3.0	35.8	1.0	-34.2	-13.0	-21.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/27/2015 Test Engineer: D. Sblendorio Configuration: 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									
3701.40	-8.2	V	3.0	35.9	1.0	-43.1	-13.0	-30.1	
5552.10	-6.4	V	3.0	35.5	1.0	-40.9	-13.0	-27.9	
7402.80	-2.0	V	3.0	35.7	1.0	-36.7	-13.0	-23.7	
3701.40	-9.3	H	3.0	35.9	1.0	-44.2	-13.0	-31.2	
5552.10	-7.3	H	3.0	35.5	1.0	-41.7	-13.0	-28.7	
7402.80	-1.0	H	3.0	35.7	1.0	-35.7	-13.0	-22.7	
Mid Ch, 1882.5									
3765.00	-10.5	V	3.0	35.8	1.0	-45.3	-13.0	-32.3	
5647.50	-7.0	V	3.0	35.5	1.0	-41.5	-13.0	-28.5	
7530.00	-1.9	V	3.0	35.7	1.0	-36.6	-13.0	-23.6	
3765.00	-9.2	H	3.0	35.8	1.0	-44.0	-13.0	-31.0	
5647.50	-4.9	H	3.0	35.5	1.0	-39.4	-13.0	-26.4	
7530.00	-1.1	H	3.0	35.7	1.0	-35.8	-13.0	-22.8	
High Ch, 1914.3									
3828.60	-10.1	V	3.0	35.8	1.0	-44.9	-13.0	-31.9	
5742.90	-6.7	V	3.0	35.5	1.0	-41.2	-13.0	-28.2	
7657.20	-0.1	V	3.0	35.8	1.0	-34.8	-13.0	-21.8	
3828.60	-10.5	H	3.0	35.8	1.0	-45.3	-13.0	-32.3	
5742.90	-6.2	H	3.0	35.5	1.0	-40.7	-13.0	-27.7	
7657.20	-0.6	H	3.0	35.8	1.0	-35.3	-13.0	-22.3	

Band	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 2/2/2015 Test Engineer: R.Zheng Configuration: EUT , AC Adapter Location: Chamber B Mode: LTE_QPSK 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
	Low Ch, 821.5 1643.00 -23.1 V 3.0 37.0 1.0 -59.1 -13.0 -46.1 2464.50 -10.8 V 3.0 36.4 1.0 -46.2 -13.0 -33.2 3286.00 -25.0 V 3.0 36.2 1.0 -60.1 -13.0 -47.1 1643.00 -24.5 H 3.0 37.0 1.0 -60.6 -13.0 -47.6 2464.50 -10.7 H 3.0 36.4 1.0 -46.1 -13.0 -33.1 3286.00 -24.3 H 3.0 36.2 1.0 -59.5 -13.0 -46.5 Mid Ch, 831.5 1663.00 -19.2 V 3.0 37.0 1.0 -55.2 -13.0 -42.2 2494.50 -12.4 V 3.0 36.4 1.0 -47.8 -13.0 -34.8 3326.00 -23.0 V 3.0 36.1 1.0 -58.1 -13.0 -45.1 1663.00 -20.0 H 3.0 37.0 1.0 -56.0 -13.0 -43.0 2494.50 -14.8 H 3.0 36.4 1.0 -50.2 -13.0 -37.2 3326.00 -25.0 H 3.0 36.1 1.0 -60.1 -13.0 -47.1 High Ch, 841.5 1683.00 -18.7 V 3.0 37.0 1.0 -54.7 -13.0 -41.7 2524.50 -19.0 V 3.0 36.4 1.0 -54.4 -13.0 -41.4 3366.00 -24.8 V 3.0 36.1 1.0 -59.9 -13.0 -46.9 1683.00 -18.9 H 3.0 37.0 1.0 -54.9 -13.0 -41.9 2524.50 -13.4 H 3.0 36.4 1.0 -48.8 -13.0 -35.8 3366.00 -24.5 H 3.0 36.1 1.0 -59.6 -13.0 -46.6									

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:	LG Electronics 15I19834 01/30/15 James Jackson EUT w/ AC Adaptor + HS, X-pos LTE26 10MHz 16QAM HARM									
	Chamber	Pre-amplifier	Filter	Limit						
	3m Chamber	T34 8449B	Filter 1	Part 22						
Band LTE26 10MHz 16QAM	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 819MHz									
	1.638	-22.5	V	3.0	37.4	1.0	-58.9	-13.0	-45.9	
	2.457	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	3.276	-23.1	V	3.0	35.8	1.0	-57.9	-13.0	-44.9	
	1.638	-24.9	H	3.0	37.4	1.0	-61.3	-13.0	-48.3	
	2.457	-25.9	H	3.0	36.4	1.0	-61.3	-13.0	-48.3	
	3.276	-23.5	H	3.0	35.8	1.0	-58.4	-13.0	-45.4	
	Mid Ch, 831.5MHz									
	1.663	-26.3	V	3.0	37.4	1.0	-62.7	-13.0	-49.7	
	2.495	-23.1	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
	3.326	-23.5	V	3.0	35.8	1.0	-58.3	-13.0	-45.3	
	1.663	-27.8	H	3.0	37.4	1.0	-64.2	-13.0	-51.2	
	2.495	-23.8	H	3.0	36.4	1.0	-59.2	-13.0	-46.2	
	3.326	-23.6	H	3.0	35.8	1.0	-58.4	-13.0	-45.4	
	High Ch, 844MHz									
	1.688	-24.3	V	3.0	37.3	1.0	-60.7	-13.0	-47.7	
	2.532	-22.5	V	3.0	36.3	1.0	-57.8	-13.0	-44.8	
	3.376	-23.2	V	3.0	35.7	1.0	-57.9	-13.0	-44.9	
	1.688	-23.6	H	3.0	37.3	1.0	-60.0	-13.0	-47.0	
	2.532	-25.4	H	3.0	36.3	1.0	-60.7	-13.0	-47.7	
	3.376	-23.4	H	3.0	35.7	1.0	-58.1	-13.0	-45.1	

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																					
Company: Project #: Date: Test Engineer: Configuration: Mode:		LG Electronics 15I19834 01/30/15 James Jackson EUT w/ AC Adaptor + HS, X-pos LTE26 10MHz QPSK HARM																																																																																																																																																																																																																																			
		Chamber	Pre-amplifier	Filter	Limit																																																																																																																																																																																																																																
		3m Chamber	T34 8449B	Filter 1	Part 22																																																																																																																																																																																																																																
Band LTE26 10MHz QPSK	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.9em;"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>(dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10" style="background-color: #ffe0b2;">Low Ch, 819MHz</td> </tr> <tr><td>1.638</td><td>-22.5</td><td>V</td><td>3.0</td><td>37.4</td><td>1.0</td><td>-58.9</td><td>-13.0</td><td>-45.9</td><td></td></tr> <tr><td>2.457</td><td>-22.6</td><td>V</td><td>3.0</td><td>36.4</td><td>1.0</td><td>-58.0</td><td>-13.0</td><td>-45.0</td><td></td></tr> <tr><td>3.276</td><td>-23.6</td><td>V</td><td>3.0</td><td>35.8</td><td>1.0</td><td>-58.4</td><td>-13.0</td><td>-45.4</td><td></td></tr> <tr><td>1.638</td><td>-24.6</td><td>H</td><td>3.0</td><td>37.4</td><td>1.0</td><td>-61.0</td><td>-13.0</td><td>-48.0</td><td></td></tr> <tr><td>2.457</td><td>-25.5</td><td>H</td><td>3.0</td><td>36.4</td><td>1.0</td><td>-60.9</td><td>-13.0</td><td>-47.9</td><td></td></tr> <tr><td>3.276</td><td>-24.1</td><td>H</td><td>3.0</td><td>35.8</td><td>1.0</td><td>-58.9</td><td>-13.0</td><td>-45.9</td><td></td></tr> <tr> <td colspan="10" style="background-color: #ffe0b2;">Mid Ch, 831.5MHz</td> </tr> <tr><td>1.663</td><td>-25.6</td><td>V</td><td>3.0</td><td>37.4</td><td>1.0</td><td>-62.0</td><td>-13.0</td><td>-49.0</td><td></td></tr> <tr><td>2.495</td><td>-19.4</td><td>V</td><td>3.0</td><td>36.4</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr> <tr><td>3.326</td><td>-24.1</td><td>V</td><td>3.0</td><td>35.8</td><td>1.0</td><td>-58.8</td><td>-13.0</td><td>-45.8</td><td></td></tr> <tr><td>1.663</td><td>-27.7</td><td>H</td><td>3.0</td><td>37.4</td><td>1.0</td><td>-64.0</td><td>-13.0</td><td>-51.0</td><td></td></tr> <tr><td>2.495</td><td>-24.5</td><td>H</td><td>3.0</td><td>36.4</td><td>1.0</td><td>-59.8</td><td>-13.0</td><td>-46.8</td><td></td></tr> <tr><td>3.326</td><td>-23.1</td><td>H</td><td>3.0</td><td>35.8</td><td>1.0</td><td>-57.9</td><td>-13.0</td><td>-44.9</td><td></td></tr> <tr> <td colspan="10" style="background-color: #ffe0b2;">High Ch, 844 MHz</td> </tr> <tr><td>1.688</td><td>-23.5</td><td>V</td><td>3.0</td><td>37.3</td><td>1.0</td><td>-59.9</td><td>-13.0</td><td>-46.9</td><td></td></tr> <tr><td>2.532</td><td>-23.0</td><td>V</td><td>3.0</td><td>36.3</td><td>1.0</td><td>-58.3</td><td>-13.0</td><td>-45.3</td><td></td></tr> <tr><td>3.376</td><td>-23.2</td><td>V</td><td>3.0</td><td>35.7</td><td>1.0</td><td>-57.9</td><td>-13.0</td><td>-44.9</td><td></td></tr> <tr><td>1.688</td><td>-24.7</td><td>H</td><td>3.0</td><td>37.3</td><td>1.0</td><td>-61.0</td><td>-13.0</td><td>-48.0</td><td></td></tr> <tr><td>2.532</td><td>-25.9</td><td>H</td><td>3.0</td><td>36.3</td><td>1.0</td><td>-61.3</td><td>-13.0</td><td>-48.3</td><td></td></tr> <tr><td>3.376</td><td>-24.1</td><td>H</td><td>3.0</td><td>35.7</td><td>1.0</td><td>-58.8</td><td>-13.0</td><td>-45.8</td><td></td></tr> </tbody> </table>									f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	(dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, 819MHz										1.638	-22.5	V	3.0	37.4	1.0	-58.9	-13.0	-45.9		2.457	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0		3.276	-23.6	V	3.0	35.8	1.0	-58.4	-13.0	-45.4		1.638	-24.6	H	3.0	37.4	1.0	-61.0	-13.0	-48.0		2.457	-25.5	H	3.0	36.4	1.0	-60.9	-13.0	-47.9		3.276	-24.1	H	3.0	35.8	1.0	-58.9	-13.0	-45.9		Mid Ch, 831.5MHz										1.663	-25.6	V	3.0	37.4	1.0	-62.0	-13.0	-49.0		2.495	-19.4	V	3.0	36.4	1.0	-54.8	-13.0	-41.8		3.326	-24.1	V	3.0	35.8	1.0	-58.8	-13.0	-45.8		1.663	-27.7	H	3.0	37.4	1.0	-64.0	-13.0	-51.0		2.495	-24.5	H	3.0	36.4	1.0	-59.8	-13.0	-46.8		3.326	-23.1	H	3.0	35.8	1.0	-57.9	-13.0	-44.9		High Ch, 844 MHz										1.688	-23.5	V	3.0	37.3	1.0	-59.9	-13.0	-46.9		2.532	-23.0	V	3.0	36.3	1.0	-58.3	-13.0	-45.3		3.376	-23.2	V	3.0	35.7	1.0	-57.9	-13.0	-44.9		1.688	-24.7	H	3.0	37.3	1.0	-61.0	-13.0	-48.0		2.532	-25.9	H	3.0	36.3	1.0	-61.3	-13.0	-48.3		3.376	-24.1	H	3.0	35.7	1.0	-58.8	-13.0	-45.8	
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	(dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																																												
Low Ch, 819MHz																																																																																																																																																																																																																																					
1.638	-22.5	V	3.0	37.4	1.0	-58.9	-13.0	-45.9																																																																																																																																																																																																																													
2.457	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0																																																																																																																																																																																																																													
3.276	-23.6	V	3.0	35.8	1.0	-58.4	-13.0	-45.4																																																																																																																																																																																																																													
1.638	-24.6	H	3.0	37.4	1.0	-61.0	-13.0	-48.0																																																																																																																																																																																																																													
2.457	-25.5	H	3.0	36.4	1.0	-60.9	-13.0	-47.9																																																																																																																																																																																																																													
3.276	-24.1	H	3.0	35.8	1.0	-58.9	-13.0	-45.9																																																																																																																																																																																																																													
Mid Ch, 831.5MHz																																																																																																																																																																																																																																					
1.663	-25.6	V	3.0	37.4	1.0	-62.0	-13.0	-49.0																																																																																																																																																																																																																													
2.495	-19.4	V	3.0	36.4	1.0	-54.8	-13.0	-41.8																																																																																																																																																																																																																													
3.326	-24.1	V	3.0	35.8	1.0	-58.8	-13.0	-45.8																																																																																																																																																																																																																													
1.663	-27.7	H	3.0	37.4	1.0	-64.0	-13.0	-51.0																																																																																																																																																																																																																													
2.495	-24.5	H	3.0	36.4	1.0	-59.8	-13.0	-46.8																																																																																																																																																																																																																													
3.326	-23.1	H	3.0	35.8	1.0	-57.9	-13.0	-44.9																																																																																																																																																																																																																													
High Ch, 844 MHz																																																																																																																																																																																																																																					
1.688	-23.5	V	3.0	37.3	1.0	-59.9	-13.0	-46.9																																																																																																																																																																																																																													
2.532	-23.0	V	3.0	36.3	1.0	-58.3	-13.0	-45.3																																																																																																																																																																																																																													
3.376	-23.2	V	3.0	35.7	1.0	-57.9	-13.0	-44.9																																																																																																																																																																																																																													
1.688	-24.7	H	3.0	37.3	1.0	-61.0	-13.0	-48.0																																																																																																																																																																																																																													
2.532	-25.9	H	3.0	36.3	1.0	-61.3	-13.0	-48.3																																																																																																																																																																																																																													
3.376	-24.1	H	3.0	35.7	1.0	-58.8	-13.0	-45.8																																																																																																																																																																																																																													

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I19834								
Date:		01/30/15								
Test Engineer:		James Jackson								
Configuration:		EUT w/ AC Adaptor + HS, X-pos								
Mode:		LTE26 5MHz 16QAM HARM								
Band	Chamber		Pre-amplifier		Filter		Limit			
	3m Chamber		T34 8449B		Filter 1		Part 22			
LTE26	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
5MHz	Low Ch, 816.5MHz									
16QAM	1.633	-26.5	V	3.0	37.4	1.0	-62.9	-13.0	-49.9	
	2.450	-23.7	V	3.0	36.4	1.0	-59.2	-13.0	-46.2	
	3.266	-23.7	V	3.0	35.8	1.0	-58.6	-13.0	-45.6	
	1.633	-26.7	H	3.0	37.4	1.0	-63.1	-13.0	-50.1	
	2.450	-26.3	H	3.0	36.4	1.0	-61.7	-13.0	-48.7	
	3.266	-23.4	H	3.0	35.8	1.0	-58.3	-13.0	-45.3	
	Mid Ch, 831.5MHz									
	1.663	-21.7	V	3.0	37.4	1.0	-58.0	-13.0	-45.0	
	2.495	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
	3.326	-23.0	V	3.0	35.8	1.0	-57.8	-13.0	-44.8	
	1.663	-24.9	H	3.0	37.4	1.0	-61.2	-13.0	-48.2	
	2.495	-25.8	H	3.0	36.4	1.0	-61.1	-13.0	-48.1	
	3.326	-23.6	H	3.0	35.8	1.0	-58.4	-13.0	-45.4	
	High Ch, 846.5MHz									
	1.693	-24.7	V	3.0	37.3	1.0	-61.0	-13.0	-48.0	
	2.540	-23.3	V	3.0	36.3	1.0	-58.6	-13.0	-45.6	
	3.386	-23.6	V	3.0	35.7	1.0	-58.3	-13.0	-45.3	
	1.693	-25.3	H	3.0	37.3	1.0	-61.6	-13.0	-48.6	
	2.540	-25.7	H	3.0	36.3	1.0	-61.0	-13.0	-48.0	
	3.386	-24.1	H	3.0	35.7	1.0	-58.8	-13.0	-45.8	

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																					
Company: Project #: Date: Test Engineer: Configuration: Mode:		LG Electronics 15I19834 01/30/15 James Jackson EUT w/ AC Adaptor + HS, X-pos LTE26 5MHz QPSK HARM																																																																																																																																																																																																																																			
		Chamber	Pre-amplifier	Filter	Limit																																																																																																																																																																																																																																
		3m Chamber	T34 8449B	Filter 1	Part 22																																																																																																																																																																																																																																
Band LTE26 5MHz QPSK	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 0.9em;"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>(dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10" style="background-color: #ffe0b2;">Low Ch, 826.5MHz</td> </tr> <tr><td>1.633</td><td>-25.7</td><td>V</td><td>3.0</td><td>37.4</td><td>1.0</td><td>-62.1</td><td>-13.0</td><td>-49.1</td><td></td></tr> <tr><td>2.450</td><td>-23.1</td><td>V</td><td>3.0</td><td>36.4</td><td>1.0</td><td>-58.5</td><td>-13.0</td><td>-45.5</td><td></td></tr> <tr><td>3.266</td><td>-24.0</td><td>V</td><td>3.0</td><td>35.8</td><td>1.0</td><td>-58.8</td><td>-13.0</td><td>-45.8</td><td></td></tr> <tr><td>1.633</td><td>-26.4</td><td>H</td><td>3.0</td><td>37.4</td><td>1.0</td><td>-62.8</td><td>-13.0</td><td>-49.8</td><td></td></tr> <tr><td>2.450</td><td>-25.7</td><td>H</td><td>3.0</td><td>36.4</td><td>1.0</td><td>-61.1</td><td>-13.0</td><td>-48.1</td><td></td></tr> <tr><td>3.266</td><td>-22.4</td><td>H</td><td>3.0</td><td>35.8</td><td>1.0</td><td>-57.2</td><td>-13.0</td><td>-44.2</td><td></td></tr> <tr> <td colspan="10" style="background-color: #ffe0b2;">Mid Ch, 836.5MHz</td> </tr> <tr><td>1.663</td><td>-21.0</td><td>V</td><td>3.0</td><td>37.4</td><td>1.0</td><td>-57.4</td><td>-13.0</td><td>-44.4</td><td></td></tr> <tr><td>2.495</td><td>-22.4</td><td>V</td><td>3.0</td><td>36.4</td><td>1.0</td><td>-57.7</td><td>-13.0</td><td>-44.7</td><td></td></tr> <tr><td>3.326</td><td>-23.0</td><td>V</td><td>3.0</td><td>35.8</td><td>1.0</td><td>-57.8</td><td>-13.0</td><td>-44.8</td><td></td></tr> <tr><td>1.663</td><td>-24.8</td><td>H</td><td>3.0</td><td>37.4</td><td>1.0</td><td>-61.2</td><td>-13.0</td><td>-48.2</td><td></td></tr> <tr><td>2.495</td><td>-24.9</td><td>H</td><td>3.0</td><td>36.4</td><td>1.0</td><td>-60.2</td><td>-13.0</td><td>-47.2</td><td></td></tr> <tr><td>3.326</td><td>-23.4</td><td>H</td><td>3.0</td><td>35.8</td><td>1.0</td><td>-58.2</td><td>-13.0</td><td>-45.2</td><td></td></tr> <tr> <td colspan="10" style="background-color: #ffe0b2;">High Ch, 846.5 MHz</td> </tr> <tr><td>1.693</td><td>-23.9</td><td>V</td><td>3.0</td><td>37.3</td><td>1.0</td><td>-60.3</td><td>-13.0</td><td>-47.3</td><td></td></tr> <tr><td>2.540</td><td>-23.5</td><td>V</td><td>3.0</td><td>36.3</td><td>1.0</td><td>-58.8</td><td>-13.0</td><td>-45.8</td><td></td></tr> <tr><td>3.386</td><td>-23.4</td><td>V</td><td>3.0</td><td>35.7</td><td>1.0</td><td>-58.1</td><td>-13.0</td><td>-45.1</td><td></td></tr> <tr><td>1.693</td><td>-25.0</td><td>H</td><td>3.0</td><td>37.3</td><td>1.0</td><td>-61.3</td><td>-13.0</td><td>-48.3</td><td></td></tr> <tr><td>2.540</td><td>-23.2</td><td>H</td><td>3.0</td><td>36.3</td><td>1.0</td><td>-58.5</td><td>-13.0</td><td>-45.5</td><td></td></tr> <tr><td>3.386</td><td>-24.0</td><td>H</td><td>3.0</td><td>35.7</td><td>1.0</td><td>-58.7</td><td>-13.0</td><td>-45.7</td><td></td></tr> </tbody> </table>									f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	(dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, 826.5MHz										1.633	-25.7	V	3.0	37.4	1.0	-62.1	-13.0	-49.1		2.450	-23.1	V	3.0	36.4	1.0	-58.5	-13.0	-45.5		3.266	-24.0	V	3.0	35.8	1.0	-58.8	-13.0	-45.8		1.633	-26.4	H	3.0	37.4	1.0	-62.8	-13.0	-49.8		2.450	-25.7	H	3.0	36.4	1.0	-61.1	-13.0	-48.1		3.266	-22.4	H	3.0	35.8	1.0	-57.2	-13.0	-44.2		Mid Ch, 836.5MHz										1.663	-21.0	V	3.0	37.4	1.0	-57.4	-13.0	-44.4		2.495	-22.4	V	3.0	36.4	1.0	-57.7	-13.0	-44.7		3.326	-23.0	V	3.0	35.8	1.0	-57.8	-13.0	-44.8		1.663	-24.8	H	3.0	37.4	1.0	-61.2	-13.0	-48.2		2.495	-24.9	H	3.0	36.4	1.0	-60.2	-13.0	-47.2		3.326	-23.4	H	3.0	35.8	1.0	-58.2	-13.0	-45.2		High Ch, 846.5 MHz										1.693	-23.9	V	3.0	37.3	1.0	-60.3	-13.0	-47.3		2.540	-23.5	V	3.0	36.3	1.0	-58.8	-13.0	-45.8		3.386	-23.4	V	3.0	35.7	1.0	-58.1	-13.0	-45.1		1.693	-25.0	H	3.0	37.3	1.0	-61.3	-13.0	-48.3		2.540	-23.2	H	3.0	36.3	1.0	-58.5	-13.0	-45.5		3.386	-24.0	H	3.0	35.7	1.0	-58.7	-13.0	-45.7	
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	(dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																																												
Low Ch, 826.5MHz																																																																																																																																																																																																																																					
1.633	-25.7	V	3.0	37.4	1.0	-62.1	-13.0	-49.1																																																																																																																																																																																																																													
2.450	-23.1	V	3.0	36.4	1.0	-58.5	-13.0	-45.5																																																																																																																																																																																																																													
3.266	-24.0	V	3.0	35.8	1.0	-58.8	-13.0	-45.8																																																																																																																																																																																																																													
1.633	-26.4	H	3.0	37.4	1.0	-62.8	-13.0	-49.8																																																																																																																																																																																																																													
2.450	-25.7	H	3.0	36.4	1.0	-61.1	-13.0	-48.1																																																																																																																																																																																																																													
3.266	-22.4	H	3.0	35.8	1.0	-57.2	-13.0	-44.2																																																																																																																																																																																																																													
Mid Ch, 836.5MHz																																																																																																																																																																																																																																					
1.663	-21.0	V	3.0	37.4	1.0	-57.4	-13.0	-44.4																																																																																																																																																																																																																													
2.495	-22.4	V	3.0	36.4	1.0	-57.7	-13.0	-44.7																																																																																																																																																																																																																													
3.326	-23.0	V	3.0	35.8	1.0	-57.8	-13.0	-44.8																																																																																																																																																																																																																													
1.663	-24.8	H	3.0	37.4	1.0	-61.2	-13.0	-48.2																																																																																																																																																																																																																													
2.495	-24.9	H	3.0	36.4	1.0	-60.2	-13.0	-47.2																																																																																																																																																																																																																													
3.326	-23.4	H	3.0	35.8	1.0	-58.2	-13.0	-45.2																																																																																																																																																																																																																													
High Ch, 846.5 MHz																																																																																																																																																																																																																																					
1.693	-23.9	V	3.0	37.3	1.0	-60.3	-13.0	-47.3																																																																																																																																																																																																																													
2.540	-23.5	V	3.0	36.3	1.0	-58.8	-13.0	-45.8																																																																																																																																																																																																																													
3.386	-23.4	V	3.0	35.7	1.0	-58.1	-13.0	-45.1																																																																																																																																																																																																																													
1.693	-25.0	H	3.0	37.3	1.0	-61.3	-13.0	-48.3																																																																																																																																																																																																																													
2.540	-23.2	H	3.0	36.3	1.0	-58.5	-13.0	-45.5																																																																																																																																																																																																																													
3.386	-24.0	H	3.0	35.7	1.0	-58.7	-13.0	-45.7																																																																																																																																																																																																																													

UL Verification Services, Inc. Chamber C Above 1GHz High Frequency Substitution Measurement											
	Company:	LG Electronics									
	Project #:	15I19834									
	Date:	01/30/15									
	Test Engineer:	J. Jackson									
	Configuration:	EUT w/ AC Adapter + HS, X-position									
	Mode:	LTE26_3M_16QAM									
		Chamber	Pre-amplifier	Filter	Limit						
		3m Chamber	T34 8449B	Filter 1	Part 22						
Band		f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	(dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE26		Low Ch, 815.5MHz									
	3MHz	1.631	-25.8	V	3.0	37.4	1.0	-62.2	-13.0	-49.2	
		2.447	-24.3	V	3.0	36.4	1.0	-59.8	-13.0	-46.8	
	16QAM	3.262	-24.0	V	3.0	35.8	1.0	-58.9	-13.0	-45.9	
		1.631	-26.1	H	3.0	37.4	1.0	-62.5	-13.0	-49.5	
		2.447	-26.2	H	3.0	36.4	1.0	-61.6	-13.0	-48.6	
		3.262	-23.7	H	3.0	35.8	1.0	-58.6	-13.0	-45.6	
		Mid Ch, 831.5MHz									
		1.663	-21.4	V	3.0	37.4	1.0	-57.8	-13.0	-44.8	
		2.495	-23.6	V	3.0	36.4	1.0	-59.0	-13.0	-46.0	
		3.326	-23.6	V	3.0	35.8	1.0	-58.4	-13.0	-45.4	
		1.663	-24.5	H	3.0	37.4	1.0	-60.9	-13.0	-47.9	
		2.495	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
		3.326	-22.9	H	3.0	35.8	1.0	-57.7	-13.0	-44.7	
		High Ch, 847.5 MHz									
		1.695	-24.0	V	3.0	37.3	1.0	-60.3	-13.0	-47.3	
		2.543	-22.3	V	3.0	36.3	1.0	-57.6	-13.0	-44.6	
		3.390	-23.4	V	3.0	35.7	1.0	-58.1	-13.0	-45.1	
		1.695	-23.6	H	3.0	37.3	1.0	-59.9	-13.0	-46.9	
		2.543	-24.5	H	3.0	36.3	1.0	-59.8	-13.0	-46.8	
		3.390	-23.6	H	3.0	35.7	1.0	-58.3	-13.0	-45.3	

LTE Band 41

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/26/2015 Test Engineer: D. Sblendorio /O.Stoelting Configuration: EUT/ AC Charger/ Headset Location: Chamber B Mode: LTE_16QAM Band 41 Harmonics, 20MHz Bandwidth									
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2506									
5012.00	-7.7	V	3.0	35.5	1.0	-42.1	-25.0	-17.1	
7518.00	-5.5	V	3.0	35.7	1.0	-40.2	-25.0	-15.2	
10024.00	-10.7	V	3.0	36.0	1.0	-45.7	-25.0	-20.7	
5012.00	-7.4	H	3.0	35.5	1.0	-41.8	-25.0	-16.8	
7518.00	-3.4	H	3.0	35.7	1.0	-38.2	-25.0	-13.2	
10024.00	-4.4	H	3.0	36.0	1.0	-39.4	-25.0	-14.4	
Mid Ch, 2593									
5186.00	-12.7	V	3.0	35.4	1.0	-47.1	-25.0	-22.1	
7779.00	-4.8	V	3.0	35.8	1.0	-39.6	-25.0	-14.6	
10372.00	-11.9	V	3.0	35.8	1.0	-46.7	-25.0	-21.7	
5186.00	-12.0	H	3.0	35.4	1.0	-46.4	-25.0	-21.4	
7779.00	-12.1	H	3.0	35.8	1.0	-46.9	-25.0	-21.9	
10372.00	-11.0	H	3.0	35.8	1.0	-45.8	-25.0	-20.8	
High Ch, 2680									
5360.00	-15.2	V	3.0	35.4	1.0	-49.7	-25.0	-24.7	
8040.00	-13.0	V	3.0	35.8	1.0	-47.8	-25.0	-22.8	
10720.00	-11.7	V	3.0	35.7	1.0	-46.3	-25.0	-21.3	
5360.00	-12.7	H	3.0	35.4	1.0	-47.2	-25.0	-22.2	
8040.00	-4.5	H	3.0	35.8	1.0	-39.3	-25.0	-14.3	
10720.00	-9.7	H	3.0	35.7	1.0	-44.4	-25.0	-19.4	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/26/2015 Test Engineer: D. Splendorio /O.Stoelting Configuration: EUT/ AC Charger/ Headset Location: Chamber B Mode: LTE_QPSK Band 41 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, 2506									
5012.00	-8.1	V	3.0	35.5	1.0	-42.6	-25.0	-17.6	
7518.00	-5.9	V	3.0	35.7	1.0	-40.7	-25.0	-15.7	
10024.00	-11.2	V	3.0	36.0	1.0	-46.2	-25.0	-21.2	
5012.00	-7.8	H	3.0	35.5	1.0	-42.3	-25.0	-17.3	
7518.00	-3.9	H	3.0	35.7	1.0	-38.6	-25.0	-13.6	
10024.00	-4.8	H	3.0	36.0	1.0	-39.9	-25.0	-14.9	
Mid Ch, 2593									
5186.00	-13.1	V	3.0	35.4	1.0	-47.5	-25.0	-22.5	
7779.00	-5.3	V	3.0	35.8	1.0	-40.1	-25.0	-15.1	
10372.00	-12.3	V	3.0	35.8	1.0	-47.2	-25.0	-22.2	
5186.00	-12.5	H	3.0	35.4	1.0	-46.9	-25.0	-21.9	
7779.00	-12.6	H	3.0	35.8	1.0	-47.4	-25.0	-22.4	
10372.00	-11.4	H	3.0	35.8	1.0	-46.3	-25.0	-21.3	
High Ch, 2680									
5360.00	-15.7	V	3.0	35.4	1.0	-50.1	-25.0	-25.1	
8040.00	-13.5	V	3.0	35.8	1.0	-48.3	-25.0	-23.3	
10720.00	-12.1	V	3.0	35.7	1.0	-46.8	-25.0	-21.8	
5360.00	-13.2	H	3.0	35.4	1.0	-47.6	-25.0	-22.6	
8040.00	-5.0	H	3.0	35.8	1.0	-39.8	-25.0	-14.8	
10720.00	-10.1	H	3.0	35.7	1.0	-44.8	-25.0	-19.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/26/2015 Test Engineer: D. Sblendorio /O.Stoelting Configuration: EUT/ AC Charger/ Headset Location: Chamber B Mode: LTE_16QAM Band 41 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, 2503.5									
5007.00	-12.8	V	3.0	35.5	1.0	-47.3	-25.0	-22.3	
7510.50	-13.6	V	3.0	35.7	1.0	-48.3	-25.0	-23.3	
10014.00	-10.9	V	3.0	36.0	1.0	-45.9	-25.0	-20.9	
5007.00	-6.1	H	3.0	35.5	1.0	-40.6	-25.0	-15.6	
7510.50	-3.6	H	3.0	35.7	1.0	-38.4	-25.0	-13.4	
10014.00	-10.1	H	3.0	36.0	1.0	-45.1	-25.0	-20.1	
Mid Ch, 2593									
5186.00	-14.5	V	3.0	35.4	1.0	-48.9	-25.0	-23.9	
7779.00	-11.3	V	3.0	35.8	1.0	-46.1	-25.0	-21.1	
10372.00	-11.7	V	3.0	35.8	1.0	-46.5	-25.0	-21.5	
5186.00	-13.8	H	3.0	35.4	1.0	-48.3	-25.0	-23.3	
7779.00	-12.8	H	3.0	35.8	1.0	-47.5	-25.0	-22.5	
10372.00	-10.1	H	3.0	35.8	1.0	-45.0	-25.0	-20.0	
High Ch, 2682.5									
5365.00	-15.5	V	3.0	35.4	1.0	-50.0	-25.0	-25.0	
8047.50	-13.4	V	3.0	35.8	1.0	-48.2	-25.0	-23.2	
10730.00	-11.8	V	3.0	35.7	1.0	-46.5	-25.0	-21.5	
5365.00	-12.1	H	3.0	35.4	1.0	-46.6	-25.0	-21.6	
8047.50	-8.6	H	3.0	35.8	1.0	-43.4	-25.0	-18.4	
10730.00	-11.0	H	3.0	35.7	1.0	-45.7	-25.0	-20.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/26/2015 Test Engineer: D. Sblendorio /O.Stoelting Configuration: EUT/ AC Charger/ Headset Location: Chamber B Mode: LTE_QPSK Band 41 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, 2503.5									
5007.00	-13.3	V	3.0	35.5	1.0	-47.7	-25.0	-22.7	
7510.50	-14.8	V	3.0	35.7	1.0	-49.6	-25.0	-24.6	
10014.00	-12.5	V	3.0	36.0	1.0	-47.6	-25.0	-22.6	
5007.00	-6.0	H	3.0	35.5	1.0	-40.5	-25.0	-15.5	
7510.50	-5.4	H	3.0	35.7	1.0	-40.2	-25.0	-15.2	
10014.00	-11.1	H	3.0	36.0	1.0	-46.1	-25.0	-21.1	
Mid Ch, 2593									
5186.00	-14.6	V	3.0	35.4	1.0	-49.0	-25.0	-24.0	
7779.00	-11.6	V	3.0	35.8	1.0	-46.4	-25.0	-21.4	
10372.00	-12.0	V	3.0	35.8	1.0	-46.8	-25.0	-21.8	
5186.00	-14.2	H	3.0	35.4	1.0	-48.6	-25.0	-23.6	
7779.00	-12.2	H	3.0	35.8	1.0	-47.0	-25.0	-22.0	
10372.00	-10.3	H	3.0	35.8	1.0	-45.1	-25.0	-20.1	
High Ch, 2682.5									
5365.00	-15.2	V	3.0	35.4	1.0	-49.6	-25.0	-24.6	
8047.50	-12.9	V	3.0	35.8	1.0	-47.7	-25.0	-22.7	
10730.00	-11.7	V	3.0	35.7	1.0	-46.4	-25.0	-21.4	
5365.00	-13.4	H	3.0	35.4	1.0	-47.9	-25.0	-22.9	
8047.50	-9.0	H	3.0	35.8	1.0	-43.8	-25.0	-18.8	
10730.00	-10.8	H	3.0	35.7	1.0	-45.5	-25.0	-20.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/26/2015 Test Engineer: D. Sblendorio /O.Stoelting Configuration: EUT/ AC Charger/ Headset Location: Chamber B Mode: LTE_16QAM Band 41 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, 2501									
5002.00	-7.2	V	3.0	35.5	1.0	-41.7	-25.0	-16.7	
7503.00	-14.5	V	3.0	35.7	1.0	-49.3	-25.0	-24.3	
10004.00	-12.0	V	3.0	36.0	1.0	-47.0	-25.0	-22.0	
5002.00	-9.6	H	3.0	35.5	1.0	-44.1	-25.0	-19.1	
7503.00	-12.3	H	3.0	35.7	1.0	-47.1	-25.0	-22.1	
10004.00	-10.1	H	3.0	36.0	1.0	-45.2	-25.0	-20.2	
Mid Ch, 2593									
5186.00	-14.9	V	3.0	35.4	1.0	-49.3	-25.0	-24.3	
7779.00	-10.2	V	3.0	35.8	1.0	-44.9	-25.0	-19.9	
10372.00	-11.2	V	3.0	35.8	1.0	-46.0	-25.0	-21.0	
5186.00	-13.7	H	3.0	35.4	1.0	-48.2	-25.0	-23.2	
7779.00	-12.0	H	3.0	35.8	1.0	-46.8	-25.0	-21.8	
10372.00	-10.7	H	3.0	35.8	1.0	-45.6	-25.0	-20.6	
High Ch, 2685									
5370.00	-16.8	V	3.0	35.4	1.0	-51.2	-25.0	-26.2	
8055.00	-13.6	V	3.0	35.8	1.0	-48.4	-25.0	-23.4	
10740.00	-11.1	V	3.0	35.7	1.0	-45.7	-25.0	-20.7	
5370.00	-16.0	H	3.0	35.4	1.0	-50.5	-25.0	-25.5	
8055.00	-12.4	H	3.0	35.8	1.0	-47.2	-25.0	-22.2	
10740.00	-10.5	H	3.0	35.7	1.0	-45.1	-25.0	-20.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: LG Electronics Project #: 15I19834 Date: 1/26/2015 Test Engineer: D. Sblendorio /O.Stoelting Configuration: EUT/ AC Charger/ Headset Location: Chamber B Mode: LTE_QPSK Band 41 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, 2501									
5002.00	-7.1	V	3.0	35.5	1.0	-41.5	-25.0	-16.5	
7503.00	-14.6	V	3.0	35.7	1.0	-49.4	-25.0	-24.4	
10004.00	-11.3	V	3.0	36.0	1.0	-46.3	-25.0	-21.3	
5002.00	-10.0	H	3.0	35.5	1.0	-44.5	-25.0	-19.5	
7503.00	-12.8	H	3.0	35.7	1.0	-47.6	-25.0	-22.6	
10004.00	-10.9	H	3.0	36.0	1.0	-45.9	-25.0	-20.9	
Mid Ch, 2593									
5186.00	-13.1	V	3.0	35.4	1.0	-47.5	-25.0	-22.5	
7779.00	-8.8	V	3.0	35.8	1.0	-43.6	-25.0	-18.6	
10372.00	-11.0	V	3.0	35.8	1.0	-45.8	-25.0	-20.8	
5186.00	-14.0	H	3.0	35.4	1.0	-48.4	-25.0	-23.4	
7779.00	-11.7	H	3.0	35.8	1.0	-46.5	-25.0	-21.5	
10372.00	-10.2	H	3.0	35.8	1.0	-45.0	-25.0	-20.0	
High Ch, 2685									
5370.00	-16.7	V	3.0	35.4	1.0	-51.1	-25.0	-26.1	
8055.00	-13.5	V	3.0	35.8	1.0	-48.3	-25.0	-23.3	
10740.00	-10.9	V	3.0	35.7	1.0	-45.6	-25.0	-20.6	
5370.00	-15.6	H	3.0	35.4	1.0	-50.1	-25.0	-25.1	
8055.00	-11.6	H	3.0	35.8	1.0	-46.4	-25.0	-21.4	
10740.00	-10.4	H	3.0	35.7	1.0	-45.1	-25.0	-20.1	

