

Band LTE7 15MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I20402																																																																																															
	Date:		03/31/15																																																																																															
	Test Engineer:		Charles Vergonio																																																																																															
	Configuration:		EUT Only, Z position																																																																																															
	Mode:		TX, LTE band 7, 15MHz, 16QAM																																																																																															
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	Configuration: EUT Only, Z position								
	Mode: TX, LTE band 7, 10MHz, 16QAM								
	Test Equipment:								
	Receiving: Horn T119, and Chamber C SMA Cables								
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	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	2505.00	3.54	V	0.9	9.5	12.16	33.0	-20.8	
	2505.00	12.84	H	0.9	9.5	21.46	33.0	-11.5	
	Mid Ch								
2535.00	3.54	V	0.9	9.5	12.16	33.0	-20.8		
2535.00	12.87	H	0.9	9.5	21.49	33.0	-11.5		
High Ch									
2565.00	3.71	V	0.9	9.5	12.36	33.0	-20.6		
2565.00	13.27	H	0.9	9.5	21.92	33.0	-11.1		
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	Configuration:		EUT Only, Z position						
	Mode:		TX, LTE band 7, 5MHz, 16QAM						
	Test Equipment:								
	Receiving: Horn T119, and Chamber C SMA Cables								
	Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	2502.50	3.53	V	0.9	9.5	12.15	33.0	-20.9	
	2502.50	12.63	H	0.9	9.5	21.25	33.0	-11.8	
	Mid Ch								
	2535.00	3.46	V	0.9	9.5	12.08	33.0	-20.9	
	2535.00	13.04	H	0.9	9.5	21.66	33.0	-11.3	
	High Ch								
	2567.50	4.39	V	0.9	9.5	13.04	33.0	-20.0	
	2567.50	13.85	H	0.9	9.5	22.50	33.0	-10.5	
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	Configuration: EUT Only, Z position								
	Mode: TX, LTE band 7, 5MHz, 16QAM								
	Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
2502.50	3.94	V	0.9	9.5	12.56	33.0	-20.4		
2502.50	13.35	H	0.9	9.5	21.97	33.0	-11.0		
Mid Ch									
2535.00	4.46	V	0.9	9.5	13.08	33.0	-19.9		
2535.00	13.89	H	0.9	9.5	22.51	33.0	-10.5		
High Ch									
2567.50	5.11	V	0.9	9.5	13.76	33.0	-19.2		
2567.50	14.53	H	0.9	9.5	23.18	33.0	-9.8		
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	Test Engineer:		R.Alegre																																																																																															
	Configuration:		EUT only																																																																																															
	Location:		Chamber B																																																																																															
	Mode:		LTE_16QAM Band 5 Fundamentals, 10MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Hybrid T243, and Chamber B SMA Cables Substitution: Dipole T273, 3ft SMA Cable Warehouse																																																																																															
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	Test Equipment: Receiving: Hybrid T243, and Chamber B SMA Cables Substitution: Dipole T273, 3ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	829.00	13.28	V	0.9	0.0	12.38	38.5	-26.1	
	829.00	22.02	H	0.9	0.0	21.12	38.5	-17.4	
	Mid Ch								
	836.50	13.42	V	0.9	0.0	12.52	38.5	-26.0	
	836.50	22.66	H	0.9	0.0	21.76	38.5	-16.7	
High Ch									
844.00	13.94	V	0.9	0.0	13.04	38.5	-25.5		
844.00	22.15	H	0.9	0.0	21.25	38.5	-17.3		

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846.50	13.05	V	0.9	0.0	12.15	38.5	-26.4																																																																																											
846.50	21.25	H	0.9	0.0	20.35	38.5	-18.2																																																																																											

Band LTE5 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I20402 Date: 04/04/15 Test Engineer: R.Alegre Configuration: EUT only Location: Chamber B Mode: LTE_QPSK Band 5 Fundamentals, 5MHz Bandwidth								
	Test Equipment: Receiving: Hybrid T243, and Chamber B SMA Cables Substitution: Dipole T273, 3ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	826.50	13.26	V	0.9	0.0	12.36	38.5	-26.1	
	826.50	22.29	H	0.9	0.0	21.39	38.5	-17.1	
	Mid Ch								
	836.50	13.35	V	0.9	0.0	12.45	38.5	-26.1	
	836.50	21.97	H	0.9	0.0	21.07	38.5	-17.4	
	High Ch								
	846.50	13.77	V	0.9	0.0	12.87	38.5	-25.6	
846.50	22.00	H	0.9	0.0	21.10	38.5	-17.4		

Band LTES 3MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I20402																																																																																															
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Band LTE5 3MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I20402 Date: 04/04/15 Test Engineer: R.Alegre Configuration: EUT only Location: Chamber B Mode: LTE_QPSK Band 5 Fundamentals, 3MHz Bandwidth								
	Test Equipment: Receiving: Hybrid T243, and Chamber B SMA Cables Substitution: Dipole T273, 3ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	825.50	13.24	V	0.9	0.0	12.34	38.5	-26.2	
	825.50	22.33	H	0.9	0.0	21.43	38.5	-17.1	
	Mid Ch								
	836.50	13.37	V	0.9	0.0	12.47	38.5	-26.0	
	836.50	21.96	H	0.9	0.0	21.06	38.5	-17.4	
High Ch									
847.50	13.78	V	0.9	0.0	12.88	38.5	-25.6		
847.50	22.02	H	0.9	0.0	21.12	38.5	-17.4		

Band LTE5 1.4MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I20402																																																																																															
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Band LTE5 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I20402 Date: 04/04/15 Test Engineer: R.Alegre Configuration: EUT only Location: Chamber B Mode: LTE_QPSK Band 5 Fundamentals, 1.4MHz Bandwidth								
	Test Equipment: Receiving: Hybrid T243, and Chamber B SMA Cables Substitution: Dipole T273, 3ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	824.70	13.27	V	0.9	0.0	12.37	38.5	-26.1	
	824.70	22.18	H	0.9	0.0	21.28	38.5	-17.2	
	Mid Ch								
	836.50	13.36	V	0.9	0.0	12.46	38.5	-26.0	
	836.50	21.83	H	0.9	0.0	20.93	38.5	-17.6	
High Ch									
848.30	13.81	V	0.9	0.0	12.91	38.5	-25.6		
848.30	22.00	H	0.9	0.0	21.10	38.5	-17.4		

Band LTE4 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company: LG																																																																																																	
	Project #: 15I20402																																																																																																	
	Date: 3/28/2015																																																																																																	
	Test Engineer: R.Alegre																																																																																																	
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	Mode: LTE_16QAM Band 4 Fundamentals, 20MHz Bandwidth																																																																																																	
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Band LTE4 20MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
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	Configuration:		EUT Only						
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	Mode:		LTE_QPSK Band 4 Fundamentals, 10MHz Bandwidth						
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	Low Ch								
	1715.00	14.46	V	0.9	8.2	21.73	30.0	-8.3	
	1715.00	20.12	H	0.9	8.2	27.39	30.0	-2.6	
	Mid Ch								
	1732.50	14.90	V	0.9	8.2	22.17	30.0	-7.8	
1732.50	20.49	H	0.9	8.2	27.76	30.0	-2.2		
High Ch									
1750.00	15.03	V	0.9	8.1	22.22	30.0	-7.8		
1750.00	20.15	H	0.9	8.1	27.34	30.0	-2.7		

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1852.50	18.95	H	0.9	8.0	26.06	33.0	-6.9																																																																																											
Mid Ch																																																																																																		
1880.00	5.92	V	0.9	8.0	13.03	33.0	-20.0																																																																																											
1880.00	18.21	H	0.9	8.0	25.32	33.0	-7.7																																																																																											
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1907.50	7.29	V	0.9	8.0	14.40	33.0	-18.6																																																																																											
1907.50	17.02	H	0.9	8.0	24.13	33.0	-8.9																																																																																											

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1850.70	19.28	H	0.9	8.0	26.39	33.0	-6.6																																																																																											
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1880.00	6.67	V	0.9	8.0	13.78	33.0	-19.2																																																																																											
1880.00	18.18	H	0.9	8.0	25.29	33.0	-7.7																																																																																											
High Ch																																																																																																		
1909.30	7.84	V	0.9	8.0	14.95	33.0	-18.1																																																																																											
1909.30	17.81	H	0.9	8.0	24.92	33.0	-8.1																																																																																											

11.1. ADDITIONAL TESTS (PHONE WITH SMART COVER)

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

11.1.1.1. CDMA (MID CHANNEL ONLY)

Band BC1 EVDO	<p>High Frequency Fundamental Measurement UL Verification Services, Inc.</p> <p>Company: LG Project #: 15I20402 Date: 5/15/2015 Test Engineer: Jude Semana Configuration: EUT + Smart Cover + Charging Dock Mode: CDMA RTT BC1</p> <p>Test Equipment: Receiving: Horn T711, and Chamber G SMA Cables Substitution: Horn T60, Xft SMA Cable (SN # SERIALNUMBER) Warehouse</p>								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	GHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1.8513		V	0.90	8.01		33.0		
	1.8513		H	0.90	8.01		33.0		
	Mid Ch								
	1.8800	14.6	V	0.90	8.01	21.66	33.0	-11.3	
	1.8800	18.3	H	0.90	8.01	25.41	33.0	-7.6	
	High Ch								
1.9088		V	0.90	8.01		33.0			
1.9088		H	0.90	8.01		33.0			
Rev. 3.17.11									

Band BC0 EVDO	High Frequency Substitution Measurement UL Verification Services Chamber G							
	Company:		LG					
	Project #:		15I20286					
	Date:		3/31/2015					
	Test Engineer:		R.Z					
	Configuration:		EUT w/ Smart Case					
	Mode:		CDMA EVDO BC0					
	Test Equipment:							
	Receiving: T899, and Chamber G Cable Substitution: Dipole T273, 6ft SMA Cable							
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
Mid Ch								
836.52	15.40	V	0.9	0.0	14.50	38.5	-23.9	
836.52	22.96	H	0.9	0.0	22.06	38.5	-16.4	
Rev. 3.17.11								

Band BC0 EVDO	High Frequency Substitution Measurement UL Verification Services Chamber G																																																																																																					
	Company:		LG																																																																																																			
	Project #:		15I20402																																																																																																			
	Date:		5/15/2015																																																																																																			
	Test Engineer:		Jude Semana																																																																																																			
	Configuration:		EUT + Smart Cover + Charging Dock																																																																																																			
	Mode:		CDMA RTT BC0																																																																																																			
	Test Equipment:																																																																																																					
	Receiving: Horn T899, and Chamber G SMA Cables																																																																																																					
	Substitution: Horn T273, 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 (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Low Ch</td> </tr> <tr> <td>824.70</td> <td></td> <td>V</td> <td>0.9</td> <td>0.0</td> <td></td> <td>38.5</td> <td></td> <td></td> </tr> <tr> <td>824.70</td> <td></td> <td>H</td> <td>0.9</td> <td>0.0</td> <td></td> <td>38.5</td> <td></td> <td></td> </tr> <tr> <td colspan="10">Mid Ch</td> </tr> <tr> <td>836.52</td> <td>18.73</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>17.83</td> <td>38.5</td> <td>-20.6</td> <td></td> </tr> <tr> <td>836.52</td> <td>22.09</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>21.19</td> <td>38.5</td> <td>-17.3</td> <td></td> </tr> <tr> <td colspan="10">High Ch</td> </tr> <tr> <td>848.31</td> <td></td> <td>V</td> <td>0.9</td> <td>0.0</td> <td></td> <td>38.5</td> <td></td> <td></td> </tr> <tr> <td>848.31</td> <td></td> <td>H</td> <td>0.9</td> <td>0.0</td> <td></td> <td>38.5</td> <td></td> <td></td> </tr> </tbody> </table>										f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch										824.70		V	0.9	0.0		38.5			824.70		H	0.9	0.0		38.5			Mid Ch										836.52	18.73	V	0.9	0.0	17.83	38.5	-20.6		836.52	22.09	H	0.9	0.0	21.19	38.5	-17.3		High Ch										848.31		V	0.9	0.0		38.5			848.31		H	0.9	0.0		38.5		
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																														
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836.52	22.09	H	0.9	0.0	21.19	38.5	-17.3																																																																																															
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848.31		V	0.9	0.0		38.5																																																																																																
848.31		H	0.9	0.0		38.5																																																																																																
Rev. 3.17.11																																																																																																						

11.1.1.1. LTE (MID CHANNEL ONLY)

Band LTE13 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B																																																																															
	Company:		LG																																																																													
	Project #:		15I20402																																																																													
	Date:		4/13/2015																																																																													
	Test Engineer:		Jude Semana																																																																													
	Configuration:		EUT + Smart Cover + Dock (Spot Check)																																																																													
	Location:		Chamber G																																																																													
	Mode:		LTE_QPSK Band 5 Fundamentals, 10MHz Bandwidth																																																																													
	Test Equipment:		Receiving: Sunol T899, and 3m Chamber G N-type Cable Substitution: Dipole T273, 4ft SMA Cable 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 (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td colspan="9"> </td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>782.00</td> <td>12.02</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>11.12</td> <td>34.8</td> <td>-23.6</td> <td></td> </tr> <tr> <td>782.00</td> <td>20.80</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>19.90</td> <td>34.8</td> <td>-14.9</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td colspan="9"> </td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch																		Mid Ch									782.00	12.02	V	0.9	0.0	11.12	34.8	-23.6		782.00	20.80	H	0.9	0.0	19.90	34.8	-14.9		High Ch																
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																								
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Mid Ch																																																																																
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782.00	20.80	H	0.9	0.0	19.90	34.8	-14.9																																																																									
High Ch																																																																																
Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm																																																																																

Band LTE7 15MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber G																																																																																																												
	Company:		LG																																																																																																										
	Project #:		15I20402																																																																																																										
	Date:		04/15/15																																																																																																										
	Test Engineer:		Jude Semana																																																																																																										
	Configuration:		EUT + Smart Cover + Charging Dock																																																																																																										
	Mode:		TX, LTE band 7, 15MHz, QPSK																																																																																																										
	Test Equipment:																																																																																																												
	Receiving:		Horn T711, and Chamber G SMA Cables																																																																																																										
	Substitution:		Horn T60, Xft SMA Cable (SN # SERIALNUMBER) Warehouse																																																																																																										
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f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																																					
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2562.50		V	0.9	9.5		33.0																																																																																																							
2562.50		H	0.9	9.5		33.0																																																																																																							
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm																																																																																																													

Band LTE5 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																												
	Company:		LG																																																																																																										
	Project #:		15I20402																																																																																																										
	Date:		4/15/2015																																																																																																										
	Test Engineer:		Jude Semana																																																																																																										
	Configuration:		EUT + Smart Cover + Dock (Spot Check)																																																																																																										
	Location:		Chamber G																																																																																																										
	Mode:		LTE_QPSK Band 5 Fundamentals, 10MHz Bandwidth																																																																																																										
	Test Equipment:		Receiving: Horn T899, and Chamber G SMA Cables																																																																																																										
			Substitution: Horn T273, Xft SMA Cable (SN # SERIALNUMBER) Warehouse																																																																																																										
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844.00	0.00	H	0.9	0.0	0.00	38.5	0.0																																																																																																						

Band LTE4 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I20402																																																																																															
	Date:		4/13/2015																																																																																															
	Test Engineer:		Jude Semana																																																																																															
	Configuration:		EUT + Smart Cover + Dock (Spot Check)																																																																																															
	Location:		Chamber G																																																																																															
	Mode:		LTE_QPSK Band 2 Fundamentals, 3MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T711, and Chamber G SMA Cables Substitution: Horn T60, Xft SMA Cable (SN # SERIALNUMBER) Warehouse																																																																																															
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f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
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Mid Ch																																																																																																		
1732.50	18.68	V	0.9	8.2	25.95	30.0	-4.0																																																																																											
1732.50	20.30	H	0.9	8.2	27.57	30.0	-2.4																																																																																											
High Ch																																																																																																		
1754.30	0.00	V	0.9	8.1	0.00	30.0	0.0																																																																																											
1754.30	0.00	H	0.9	8.1	0.00	30.0	0.0																																																																																											

Band LTE2 15 MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I20402																																																																																															
	Date:		4/13/2015																																																																																															
	Test Engineer:		Jude Semana																																																																																															
	Configuration:		EUT + Smart Cover + Dock (Spot Check)																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_QPSK Band 2 Fundamentals, 15MHz Bandwidth																																																																																															
	Test Equipment:		Receiving: Horn T711, and Chamber G SMA Cables Substitution: Horn T60, Xft SMA Cable (SN # SERIALNUMBER) Warehouse																																																																																															
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1902.50	0.00	H	0.9	8.0	0.00	33.0	0.0																																																																																											

11.1.1.2. GSM (MID CHANNEL ONLY)

Band GSM 1900 GPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber G																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I20402																																																																																															
	Date:		4/13/2015																																																																																															
	Test Engineer:		Jude Semana																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber G																																																																																															
	Mode:		GPRS 1900																																																																																															
	Test Equipment:		Receiving: Horn T711, and Chamber G SMA Cables Substitution: Horn T60, 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>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>1850.20</td> <td></td> <td>V</td> <td>0.9</td> <td>8.0</td> <td></td> <td>33.0</td> <td></td> <td></td> </tr> <tr> <td>1850.20</td> <td></td> <td>H</td> <td>0.9</td> <td>8.0</td> <td></td> <td>33.0</td> <td></td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1880.00</td> <td>17.37</td> <td>V</td> <td>0.9</td> <td>8.0</td> <td>24.48</td> <td>33.0</td> <td>-8.5</td> <td></td> </tr> <tr> <td>1880.00</td> <td>24.60</td> <td>H</td> <td>0.9</td> <td>8.0</td> <td>31.71</td> <td>33.0</td> <td>-1.3</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1909.80</td> <td></td> <td>V</td> <td>0.9</td> <td>8.0</td> <td></td> <td>33.0</td> <td></td> <td></td> </tr> <tr> <td>1909.80</td> <td></td> <td>H</td> <td>0.9</td> <td>8.0</td> <td></td> <td>33.0</td> <td></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)	Margin (dB)	Notes	Low Ch									1850.20		V	0.9	8.0		33.0			1850.20		H	0.9	8.0		33.0			Mid Ch									1880.00	17.37	V	0.9	8.0	24.48	33.0	-8.5		1880.00	24.60	H	0.9	8.0	31.71	33.0	-1.3		High Ch									1909.80		V	0.9	8.0		33.0			1909.80		H	0.9	8.0		33.0	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																										
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Band GSM 850 GPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber G																																																																																																										
	Company:		LG																																																																																																								
	Project #:		15I20402																																																																																																								
	Date:		05/15/15																																																																																																								
	Test Engineer:		Jude Semana																																																																																																								
	Configuration:		EUT + Smart Cover + Charging Dock																																																																																																								
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	Test Equipment:																																																																																																										
	Receiving:		Horn T711, and Chamber G SMA Cables																																																																																																								
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f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Margin	Notes																																																																																																			
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Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm																																																																																																											

11.1.1.3. WCDMA (MID CHANNEL ONLY)

Band 2 REL99	<p>High Frequency Substitution Measurement UL Verification Services, Inc.</p> <p>Company: LG Project #: 15I20402 Date: 3/29/2015 Test Engineer: R.Alegre Configuration: EUT + Smart Cover + Dock (Spot Check) Location: Chamber G Mode: Rel99 B2</p> <p>Test Equipment: Receiving: Horn T711, and Chamber C SMA Cables Substitution: Horn T60 Substitution, 4ft SMA Cable Warehouse</p>								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1852.40		V	0.9	8.0		33.0		
	1852.40		H	0.9	8.0		33.0		
	Mid Ch								
	1880.00	13.58	V	0.9	8.0	20.69	33.0	-12.3	
	1880.00	18.30	H	0.9	8.0	25.41	33.0	-7.6	
	High Ch								
	1907.60		V	0.9	8.0		33.0		
1907.60		H	0.9	8.0		33.0			
<p>Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm</p>									

Band 5 REL99	High Frequency Substitution Measurement Chamber G UL Verification Services, Inc.																																																																																																		
	Company:		LG																																																																																																
	Project #:		15I20402																																																																																																
	Date:		3/29/2015																																																																																																
	Test Engineer:		R.Alegre																																																																																																
	Configuration:		EUT + Smart Cover + Dock (Spot Check)																																																																																																
	Mode:		REL99 B5 FUND																																																																																																
	Test Equipment:		Receiving: Sunol T899, and 3m Chamber G N-type Cable Substitution: Dipole T273, 4ft SMA Cable Warehouse.																																																																																																
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">f MHz</th> <th style="width: 10%;">SG reading (dBm)</th> <th style="width: 10%;">Ant. Pol. (H/V)</th> <th style="width: 10%;">Cable Loss (dB)</th> <th style="width: 10%;">Antenna Gain (dBd)</th> <th style="width: 10%;">ERP (dBm)</th> <th style="width: 10%;">Limit (dBm)</th> <th style="width: 10%;">Margin (dB)</th> <th style="width: 10%;">Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>826.40</td> <td></td> <td style="text-align: center;">V</td> <td style="text-align: center;">0.9</td> <td style="text-align: center;">0.0</td> <td></td> <td style="text-align: center;">38.5</td> <td></td> <td></td> </tr> <tr> <td>826.40</td> <td></td> <td style="text-align: center;">H</td> <td style="text-align: center;">0.9</td> <td style="text-align: center;">0.0</td> <td></td> <td style="text-align: center;">38.5</td> <td></td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>836.60</td> <td style="text-align: center;">20.75</td> <td style="text-align: center;">V</td> <td style="text-align: center;">0.9</td> <td style="text-align: center;">0.0</td> <td style="text-align: center;">19.85</td> <td style="text-align: center;">38.5</td> <td style="text-align: center;">-18.6</td> <td></td> </tr> <tr> <td>836.60</td> <td style="text-align: center;">21.20</td> <td style="text-align: center;">H</td> <td style="text-align: center;">0.9</td> <td style="text-align: center;">0.0</td> <td style="text-align: center;">20.30</td> <td style="text-align: center;">38.5</td> <td style="text-align: center;">-18.1</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>846.60</td> <td></td> <td style="text-align: center;">V</td> <td style="text-align: center;">0.9</td> <td style="text-align: center;">0.0</td> <td></td> <td style="text-align: center;">38.5</td> <td></td> <td></td> </tr> <tr> <td>846.60</td> <td></td> <td style="text-align: center;">H</td> <td style="text-align: center;">0.9</td> <td style="text-align: center;">0.0</td> <td></td> <td style="text-align: center;">38.5</td> <td></td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch									826.40		V	0.9	0.0		38.5			826.40		H	0.9	0.0		38.5			Mid Ch									836.60	20.75	V	0.9	0.0	19.85	38.5	-18.6		836.60	21.20	H	0.9	0.0	20.30	38.5	-18.1		High Ch									846.60		V	0.9	0.0		38.5			846.60		H	0.9	0.0		38.5		
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																										
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Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm																																																																																																			

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

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

LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

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

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.

RESULTS

11.1.1. SPURIOUS RADIATION DATA

GSM

UL Verification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/31/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		EGPRS 1900 MHz Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1850.2									
3700.40	-17.4	V	3.0	35.9	1.0	-52.3	-13.0	-39.3	
5550.60	-0.2	V	3.0	35.5	1.0	-34.6	-13.0	-21.6	
GSM									
7400.80	-13.1	V	3.0	35.7	1.0	-47.8	-13.0	-34.8	
1900									
3700.40	-18.4	H	3.0	35.9	1.0	-53.3	-13.0	-40.3	
5550.60	-12.4	H	3.0	35.5	1.0	-46.9	-13.0	-33.9	
7400.80	-11.1	H	3.0	35.7	1.0	-45.8	-13.0	-32.8	
EGPRS									
Mid Ch, 1880									
3760.00	-18.0	V	3.0	35.8	1.0	-52.8	-13.0	-39.8	
5640.00	-4.8	V	3.0	35.5	1.0	-39.3	-13.0	-26.3	
7520.00	-10.8	V	3.0	35.7	1.0	-45.5	-13.0	-32.5	
3760.00	-18.8	H	3.0	35.8	1.0	-53.6	-13.0	-40.6	
5640.00	-7.3	H	3.0	35.5	1.0	-41.8	-13.0	-28.8	
7520.00	-12.6	H	3.0	35.7	1.0	-47.4	-13.0	-34.4	
High Ch, 1909.8									
3819.60	-18.1	V	3.0	35.8	1.0	-52.9	-13.0	-39.9	
5729.40	-11.0	V	3.0	35.5	1.0	-45.5	-13.0	-32.5	
7639.20	-9.4	V	3.0	35.8	1.0	-44.1	-13.0	-31.1	
3819.60	-17.3	H	3.0	35.8	1.0	-52.1	-13.0	-39.1	
5729.40	-13.1	H	3.0	35.5	1.0	-47.6	-13.0	-34.6	
7639.20	-12.4	H	3.0	35.8	1.0	-47.2	-13.0	-34.2	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20402								
Date:		3/31/2015								
Test Engineer:		J. Hsu								
Configuration:		EUT w/ AC Adapter + Headset								
Location:		Chamber G								
Mode:		GPRS 1900 MHz Harmonics								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1850.2									
	3700.40	-19.3	V	3.0	35.9	1.0	-54.2	-13.0	-41.2	
GSM	5550.60	2.7	V	3.0	35.5	1.0	-31.8	-13.0	-18.8	
	7400.80	-7.2	V	3.0	35.7	1.0	-41.9	-13.0	-28.9	
1900	3700.40	-18.2	H	3.0	35.9	1.0	-53.1	-13.0	-40.1	
	5550.60	-10.0	H	3.0	35.5	1.0	-44.5	-13.0	-31.5	
GPRS	7400.80	-9.5	H	3.0	35.7	1.0	-44.3	-13.0	-31.3	
	Mid Ch, 1880									
	3760.00	-18.0	V	3.0	35.8	1.0	-52.8	-13.0	-39.8	
	5640.00	-9.6	V	3.0	35.5	1.0	-44.1	-13.0	-31.1	
	7520.00	-7.8	V	3.0	35.7	1.0	-42.6	-13.0	-29.6	
	3760.00	-18.3	H	3.0	35.8	1.0	-53.2	-13.0	-40.2	
	5640.00	-6.6	H	3.0	35.5	1.0	-41.1	-13.0	-28.1	
	7520.00	-9.5	H	3.0	35.7	1.0	-44.2	-13.0	-31.2	
	High Ch, 1909.8									
	3819.60	-13.3	V	3.0	35.8	1.0	-48.1	-13.0	-35.1	
	5729.40	-12.3	V	3.0	35.5	1.0	-46.8	-13.0	-33.8	
	7639.20	-7.2	V	3.0	35.8	1.0	-41.9	-13.0	-28.9	
	3819.60	-17.7	H	3.0	35.8	1.0	-52.5	-13.0	-39.5	
	5729.40	-14.6	H	3.0	35.5	1.0	-49.1	-13.0	-36.1	
	7639.20	-11.5	H	3.0	35.8	1.0	-46.3	-13.0	-33.3	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20402								
Date:		3/31/2015								
Test Engineer:		J. Hsu								
Configuration:		EUT w/ AC Adapter + Headset								
Location:		Chamber G								
Mode:		EGPRS 850 MHz Harmonics								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 824.2									
	1648.40	-9.7	V	3.0	37.0	1.0	-45.8	-13.0	-32.8	
	2472.60	-21.1	V	3.0	36.4	1.0	-56.5	-13.0	-43.5	
GSM	3296.80	-20.3	V	3.0	36.2	1.0	-55.5	-13.0	-42.5	
	1648.40	-10.3	H	3.0	37.0	1.0	-46.4	-13.0	-33.4	
850	2472.60	-17.4	H	3.0	36.4	1.0	-52.8	-13.0	-39.8	
	3296.80	-19.4	H	3.0	36.2	1.0	-54.5	-13.0	-41.5	
EGPRS	Mid Ch, 836.6									
	1673.20	-9.8	V	3.0	37.0	1.0	-45.8	-13.0	-32.8	
	2509.80	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	3346.40	-20.3	V	3.0	36.1	1.0	-55.5	-13.0	-42.5	
	1673.20	-10.8	H	3.0	37.0	1.0	-46.8	-13.0	-33.8	
	2509.80	-18.6	H	3.0	36.4	1.0	-54.1	-13.0	-41.1	
	3346.40	-19.6	H	3.0	36.1	1.0	-54.7	-13.0	-41.7	
	High Ch, 848.8									
	1697.60	-8.7	V	3.0	37.0	1.0	-44.7	-13.0	-31.7	
	2546.40	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
3395.20	-20.8	V	3.0	36.1	1.0	-55.8	-13.0	-42.8		
1697.60	-15.3	H	3.0	37.0	1.0	-51.3	-13.0	-38.3		
2546.40	-21.2	H	3.0	36.4	1.0	-56.6	-13.0	-43.6		
3395.20	-19.8	H	3.0	36.1	1.0	-54.9	-13.0	-41.9		

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/31/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		GPRS 850 MHz Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
GSM850									
GPRS									
Low Ch, 824.2									
1648.40	-7.7	V	3.0	37.0	1.0	-43.8	-13.0	-30.8	
2472.60	-19.1	V	3.0	36.4	1.0	-54.6	-13.0	-41.6	
3296.80	-19.6	V	3.0	36.2	1.0	-54.8	-13.0	-41.8	
1648.40	-9.7	H	3.0	37.0	1.0	-45.7	-13.0	-32.7	
2472.60	-16.6	H	3.0	36.4	1.0	-52.1	-13.0	-39.1	
3296.80	-19.7	H	3.0	36.2	1.0	-54.8	-13.0	-41.8	
Mid Ch, 836.6									
1673.20	-8.7	V	3.0	37.0	1.0	-44.7	-13.0	-31.7	
2509.80	-20.7	V	3.0	36.4	1.0	-56.1	-13.0	-43.1	
3346.40	-19.4	V	3.0	36.1	1.0	-54.5	-13.0	-41.5	
1673.20	-10.1	H	3.0	37.0	1.0	-46.1	-13.0	-33.1	
2509.80	-17.5	H	3.0	36.4	1.0	-53.0	-13.0	-40.0	
3346.40	-19.7	H	3.0	36.1	1.0	-54.8	-13.0	-41.8	
High Ch, 848.8									
1697.60	-8.2	V	3.0	37.0	1.0	-44.2	-13.0	-31.2	
2546.40	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
3395.20	-20.0	V	3.0	36.1	1.0	-55.1	-13.0	-42.1	
1697.60	-13.3	H	3.0	37.0	1.0	-49.3	-13.0	-36.3	
2546.40	-19.9	H	3.0	36.4	1.0	-55.3	-13.0	-42.3	
3395.20	-19.8	H	3.0	36.1	1.0	-54.9	-13.0	-41.9	

WCDMA

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement										
Company: LG Electronics Project #: 15I20402 Date: 3/31/2015 Test Engineer: J. Hsu Configuration: EUT w/ AC Adapter + Headset Location: Chamber G Mode: HSDPA Band 2 Harmonics										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Low Ch, 1852.4										
Band	3704.80	-15.9	V	3.0	35.9	1.0	-50.8	-13.0	-37.8	
	5557.20	-15.1	V	3.0	35.5	1.0	-49.6	-13.0	-36.6	
Band 2	7409.60	-16.0	V	3.0	35.7	1.0	-50.7	-13.0	-37.7	
	3704.80	-16.1	H	3.0	35.9	1.0	-51.0	-13.0	-38.0	
	5557.20	-11.1	H	3.0	35.5	1.0	-45.6	-13.0	-32.6	
HSDPA	7409.60	-13.6	H	3.0	35.7	1.0	-48.3	-13.0	-35.3	
Mid Ch, 1880										
	3760.00	-16.6	V	3.0	35.8	1.0	-51.5	-13.0	-38.5	
	5640.00	-15.5	V	3.0	35.5	1.0	-50.0	-13.0	-37.0	
	7520.00	-15.5	V	3.0	35.7	1.0	-50.3	-13.0	-37.3	
	3760.00	-18.7	H	3.0	35.8	1.0	-53.5	-13.0	-40.5	
	5640.00	-14.6	H	3.0	35.5	1.0	-49.0	-13.0	-36.0	
	7520.00	-14.5	H	3.0	35.7	1.0	-49.2	-13.0	-36.2	
High Ch, 1907.6										
	3815.20	-10.8	V	3.0	35.8	1.0	-45.5	-13.0	-32.5	
	5722.80	-14.7	V	3.0	35.5	1.0	-49.2	-13.0	-36.2	
	7630.40	-15.7	V	3.0	35.8	1.0	-50.5	-13.0	-37.5	
	3815.20	-11.9	H	3.0	35.8	1.0	-46.7	-13.0	-33.7	
	5722.80	-14.3	H	3.0	35.5	1.0	-48.8	-13.0	-35.8	
	7630.40	-13.3	H	3.0	35.8	1.0	-48.0	-13.0	-35.0	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/31/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		Rel99 Band 2 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1852.4									
Band	3704.80	-15.3	V	3.0	35.9	1.0	-50.1	-13.0	-37.1
	5557.20	-8.4	V	3.0	35.5	1.0	-42.9	-13.0	-29.9
Band 2	7409.60	-14.8	V	3.0	35.7	1.0	-49.5	-13.0	-36.5
	3704.80	-16.4	H	3.0	35.9	1.0	-51.3	-13.0	-38.3
	5557.20	-12.6	H	3.0	35.5	1.0	-47.1	-13.0	-34.1
REL99	7409.60	-14.8	H	3.0	35.7	1.0	-49.6	-13.0	-36.6
Mid Ch, 1880									
	3760.00	-15.1	V	3.0	35.8	1.0	-49.9	-13.0	-36.9
	5640.00	-17.0	V	3.0	35.5	1.0	-51.5	-13.0	-38.5
	7520.00	-16.2	V	3.0	35.7	1.0	-50.9	-13.0	-37.9
	3760.00	-18.7	H	3.0	35.8	1.0	-53.5	-13.0	-40.5
	5640.00	-16.1	H	3.0	35.5	1.0	-50.6	-13.0	-37.6
	7520.00	-14.0	H	3.0	35.7	1.0	-48.7	-13.0	-35.7
High Ch, 1907.6									
	3815.20	-5.7	V	3.0	35.8	1.0	-40.4	-13.0	-27.4
	5722.80	-16.1	V	3.0	35.5	1.0	-50.6	-13.0	-37.6
	7630.40	-15.1	V	3.0	35.8	1.0	-49.9	-13.0	-36.9
	3815.20	-7.9	H	3.0	35.8	1.0	-42.7	-13.0	-29.7
	5722.80	-14.7	H	3.0	35.5	1.0	-49.2	-13.0	-36.2
	7630.40	-14.5	H	3.0	35.8	1.0	-49.2	-13.0	-36.2

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20402								
Date:		3/31/2015								
Test Engineer:		J. Hsu								
Configuration:		EUT w/ AC Adapter + Headset								
Location:		Chamber G								
Mode:		HSDPA Band 5 Harmonics								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 826.4									
Band	1652.80	-0.1	V	3.0	37.0	1.0	-36.1	-13.0	-23.1	
	2479.20	-10.7	V	3.0	36.4	1.0	-46.1	-13.0	-33.1	
Band 5	3305.60	-20.1	V	3.0	36.1	1.0	-55.3	-13.0	-42.3	
	1652.80	-4.6	H	3.0	37.0	1.0	-40.7	-13.0	-27.7	
	2479.20	-21.5	H	3.0	36.4	1.0	-56.9	-13.0	-43.9	
HSDPA	3305.60	-21.2	H	3.0	36.1	1.0	-56.4	-13.0	-43.4	
	Mid Ch, 836.6									
	1673.20	5.0	V	3.0	37.0	1.0	-31.0	-13.0	-18.0	
	2509.80	-14.2	V	3.0	36.4	1.0	-49.6	-13.0	-36.6	
	3346.40	-20.1	V	3.0	36.1	1.0	-55.2	-13.0	-42.2	
	1673.20	-0.9	H	3.0	37.0	1.0	-36.9	-13.0	-23.9	
	2509.80	-22.9	H	3.0	36.4	1.0	-58.3	-13.0	-45.3	
	3346.40	-20.4	H	3.0	36.1	1.0	-55.6	-13.0	-42.6	
	High Ch, 846.6									
	1693.20	4.3	V	3.0	37.0	1.0	-31.6	-13.0	-18.6	
	2539.80	-12.9	V	3.0	36.4	1.0	-48.3	-13.0	-35.3	
	3386.40	-19.2	V	3.0	36.1	1.0	-54.3	-13.0	-41.3	
	1693.20	-3.9	H	3.0	37.0	1.0	-39.8	-13.0	-26.8	
	2539.80	-22.0	H	3.0	36.4	1.0	-57.4	-13.0	-44.4	
	3386.40	-20.3	H	3.0	36.1	1.0	-55.4	-13.0	-42.4	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/31/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		Rel99 Band 5 Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.4									
Band	1652.80	-1.8	V	3.0	37.0	1.0	-37.8	-13.0	-24.8
	2479.20	-14.9	V	3.0	36.4	1.0	-50.3	-13.0	-37.3
Band 5	3305.60	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7
	1652.80	-5.5	H	3.0	37.0	1.0	-41.5	-13.0	-28.5
	2479.20	-21.3	H	3.0	36.4	1.0	-56.7	-13.0	-43.7
REL99	3305.60	-21.2	H	3.0	36.1	1.0	-56.3	-13.0	-43.3
Mid Ch, 836.6									
	1673.20	2.9	V	3.0	37.0	1.0	-33.1	-13.0	-20.1
	2509.80	-16.3	V	3.0	36.4	1.0	-51.7	-13.0	-38.7
	3346.40	-20.5	V	3.0	36.1	1.0	-55.7	-13.0	-42.7
	1673.20	-2.8	H	3.0	37.0	1.0	-38.8	-13.0	-25.8
	2509.80	-21.3	H	3.0	36.4	1.0	-56.7	-13.0	-43.7
	3346.40	-20.8	H	3.0	36.1	1.0	-55.9	-13.0	-42.9
High Ch, 846.6									
	1693.20	2.4	V	3.0	37.0	1.0	-33.6	-13.0	-20.6
	2539.80	-15.2	V	3.0	36.4	1.0	-50.6	-13.0	-37.6
	3386.40	-19.9	V	3.0	36.1	1.0	-55.0	-13.0	-42.0
	1693.20	-8.7	H	3.0	37.0	1.0	-44.6	-13.0	-31.6
	2539.80	-22.2	H	3.0	36.4	1.0	-57.6	-13.0	-44.6
	3386.40	-20.5	H	3.0	36.1	1.0	-55.6	-13.0	-42.6

CDMA

UL Verification Services Chamber B
Above 1GHz High Frequency Substitution Measurement

Company: LG
 Project #: 15I20402
 Date: 04/04/15
 Test Engineer: R.Alegre
 Configuration: EUT w/ AC Adapter + HS
 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	
Band BC1	Low Ch, 1851.25 MHz										
		3.703	-6.9	H	3.0	35.4	1.0	-41.3	-13.0	-28.3	
		5.554	-6.2	H	3.0	34.7	1.0	-39.9	-13.0	-26.9	
		7.405	-11.7	H	3.0	34.9	1.0	-45.6	-13.0	-32.6	
		3.703	-9.2	V	3.0	35.4	1.0	-43.6	-13.0	-30.6	
		5.554	-4.3	V	3.0	34.7	1.0	-38.0	-13.0	-25.0	
		7.405	-13.1	V	3.0	34.9	1.0	-47.0	-13.0	-34.0	
		Mid Ch, 1880 MHz									
		3.760	-4.8	H	3.0	35.3	1.0	-39.1	-13.0	-26.1	
		5.640	-3.3	H	3.0	34.7	1.0	-37.0	-13.0	-24.0	
		7.520	-11.7	H	3.0	34.9	1.0	-45.7	-13.0	-32.7	
		3.760	-9.3	V	3.0	35.3	1.0	-43.6	-13.0	-30.6	
		5.640	-3.3	V	3.0	34.7	1.0	-37.0	-13.0	-24.0	
		7.520	-12.9	V	3.0	34.9	1.0	-46.8	-13.0	-33.8	
		High Ch, 1908.75 MHz									
		3.818	-0.1	H	3.0	35.3	1.0	-34.4	-13.0	-21.4	
		5.726	-2.1	H	3.0	34.7	1.0	-35.8	-13.0	-22.8	
		7.635	-11.3	H	3.0	34.9	1.0	-45.3	-13.0	-32.3	
	3.818	-0.7	V	3.0	35.3	1.0	-35.0	-13.0	-22.0		
	5.726	-13.0	V	3.0	34.7	1.0	-46.7	-13.0	-33.7		
	7.635	-12.9	V	3.0	34.9	1.0	-46.8	-13.0	-33.8		

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:		LG							
Project #:		15I20402							
Date:		04/04/15							
Test Engineer:		R.Alegre							
Configuration:		EUT w/ AC Adapter + HS							
Mode:		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
Band									
BC1									
1xRTT									
Low Ch, 1851.25 MHz									
3.703	-6.7	H	3.0	35.4	1.0	-41.1	-13.0	-28.1	
5.554	-6.1	H	3.0	34.7	1.0	-39.8	-13.0	-26.8	
7.405	-12.5	H	3.0	34.9	1.0	-46.4	-13.0	-33.4	
3.703	-9.5	V	3.0	35.4	1.0	-43.9	-13.0	-30.9	
5.554	-3.9	V	3.0	34.7	1.0	-37.7	-13.0	-24.7	
7.405	-13.0	V	3.0	34.9	1.0	-46.9	-13.0	-33.9	
Mid Ch, 1880 MHz									
3.760	-4.8	H	3.0	35.3	1.0	-39.2	-13.0	-26.2	
5.640	-3.2	H	3.0	34.7	1.0	-37.0	-13.0	-24.0	
7.520	-11.6	H	3.0	34.9	1.0	-45.5	-13.0	-32.5	
3.760	-8.9	V	3.0	35.3	1.0	-43.2	-13.0	-30.2	
5.640	-2.9	V	3.0	34.7	1.0	-36.6	-13.0	-23.6	
7.520	-12.9	V	3.0	34.9	1.0	-46.9	-13.0	-33.9	
High Ch, 1908.75 MHz									
3.818	0.0	H	3.0	35.3	1.0	-34.3	-13.0	-21.3	
5.726	-2.0	H	3.0	34.7	1.0	-35.7	-13.0	-22.7	
7.635	-11.7	H	3.0	34.9	1.0	-45.6	-13.0	-32.6	
3.818	-0.8	V	3.0	35.3	1.0	-35.1	-13.0	-22.1	
5.726	-13.1	V	3.0	34.7	1.0	-46.8	-13.0	-33.8	
7.635	-12.7	V	3.0	34.9	1.0	-46.7	-13.0	-33.7	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

UL Verification Services Chamber B Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		15I20402							
Date:		04/04/15							
Test Engineer:		R.Alegre							
Configuration:		EUT w/ AC Adapter + HS							
Mode:		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									
Low Ch, 824.7MHz									
1.649	-26.6	H	3.0	37.4	1.0	-63.0	-13.0	-50.0	
2.474	-24.4	H	3.0	36.4	1.0	-59.8	-13.0	-46.8	
3.299	-21.6	H	3.0	35.8	1.0	-56.4	-13.0	-43.4	
1.649	-25.7	V	3.0	37.4	1.0	-62.0	-13.0	-49.0	
2.474	-18.9	V	3.0	36.4	1.0	-54.3	-13.0	-41.3	
3.299	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3	
Mid Ch, 836.52MHz									
1.673	-25.4	H	3.0	37.3	1.0	-61.8	-13.0	-48.8	
2.510	-24.5	H	3.0	36.4	1.0	-59.9	-13.0	-46.9	
3.346	-21.4	H	3.0	35.8	1.0	-56.2	-13.0	-43.2	
1.673	-25.3	V	3.0	37.3	1.0	-61.7	-13.0	-48.7	
2.510	-17.5	V	3.0	36.4	1.0	-52.8	-13.0	-39.8	
3.346	-20.4	V	3.0	35.8	1.0	-55.2	-13.0	-42.2	
High Ch, 848.31MHz									
1.697	-22.9	H	3.0	37.3	1.0	-59.2	-13.0	-46.2	
2.545	-24.3	H	3.0	36.3	1.0	-59.6	-13.0	-46.6	
3.393	-20.6	H	3.0	35.7	1.0	-55.3	-13.0	-42.3	
1.697	-10.4	V	3.0	37.3	1.0	-46.7	-13.0	-33.7	
2.545	-19.7	V	3.0	36.3	1.0	-55.1	-13.0	-42.1	
3.393	-21.0	V	3.0	35.7	1.0	-55.7	-13.0	-42.7	
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:		LG							
Project #:		15I20402							
Date:		04/04/15							
Test Engineer:		R.Alegre							
Configuration:		EUT w/ AC Adapter + HS							
Mode:		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
Band									
BC0									
1xRTT									
Low Ch, 824.7MHz									
1.649	-26.6	H	3.0	37.4	1.0	-63.0	-13.0	-50.0	
2.474	-24.5	H	3.0	36.4	1.0	-59.9	-13.0	-46.9	
3.299	-21.5	H	3.0	35.8	1.0	-56.3	-13.0	-43.3	
Mid Ch, 836.52MHz									
1.649	-25.9	V	3.0	37.4	1.0	-62.3	-13.0	-49.3	
2.474	-18.8	V	3.0	36.4	1.0	-54.2	-13.0	-41.2	
3.299	-20.4	V	3.0	35.8	1.0	-55.2	-13.0	-42.2	
High Ch, 848.31MHz									
1.673	-25.6	H	3.0	37.3	1.0	-62.0	-13.0	-49.0	
2.510	-23.9	H	3.0	36.4	1.0	-59.3	-13.0	-46.3	
3.346	-20.9	H	3.0	35.8	1.0	-55.6	-13.0	-42.6	
1.673	-25.5	V	3.0	37.3	1.0	-61.8	-13.0	-48.8	
2.510	-17.4	V	3.0	36.4	1.0	-52.8	-13.0	-39.8	
3.346	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3	
High Ch, 848.31MHz									
1.697	-22.6	H	3.0	37.3	1.0	-58.9	-13.0	-45.9	
2.545	-24.2	H	3.0	36.3	1.0	-59.5	-13.0	-46.5	
3.393	-20.5	H	3.0	35.7	1.0	-55.2	-13.0	-42.2	
1.697	-10.2	V	3.0	37.3	1.0	-46.5	-13.0	-33.5	
2.545	-19.8	V	3.0	36.3	1.0	-55.2	-13.0	-42.2	
3.393	-20.7	V	3.0	35.7	1.0	-55.4	-13.0	-42.4	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

UL Verificaton Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/31/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 13 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, 782									
1564.00	0.0	V	3.0	37.1	1.0	-36.1	-13.0	-23.1	
2346.00	0.0	V	3.0	36.5	1.0	-35.5	-13.0	-22.5	
3128.00	0.0	V	3.0	36.3	1.0	-35.3	-13.0	-22.3	
Mid Ch, 782									
1564.00	-1.0	V	3.0	37.1	1.0	-37.1	-13.0	-24.1	
2346.00	-16.4	V	3.0	36.5	1.0	-51.9	-13.0	-38.9	
3128.00	-20.1	V	3.0	36.3	1.0	-55.4	-13.0	-42.4	
1564.00	-3.8	H	3.0	37.1	1.0	-40.0	-13.0	-27.0	
2346.00	-22.8	H	3.0	36.5	1.0	-58.3	-13.0	-45.3	
3128.00	-20.8	H	3.0	36.3	1.0	-56.1	-13.0	-43.1	
High Ch, 782									
1564.00	0.0	V	3.0	37.1	1.0	-36.1	-13.0	-23.1	
2346.00	0.0	V	3.0	36.5	1.0	-35.5	-13.0	-22.5	
3128.00	0.0	V	3.0	36.3	1.0	-35.3	-13.0	-22.3	
1564.00	0.0	H	3.0	37.1	1.0	-36.1	-13.0	-23.1	
2346.00	0.0	H	3.0	36.5	1.0	-35.5	-13.0	-22.5	
3128.00	0.0	H	3.0	36.3	1.0	-35.3	-13.0	-22.3	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/31/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 13 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, 782									
1564.00	0.0	V	3.0	37.1	1.0	-36.1	-13.0	-23.1	
2346.00	0.0	V	3.0	36.5	1.0	-35.5	-13.0	-22.5	
3128.00	0.0	V	3.0	36.3	1.0	-35.3	-13.0	-22.3	
Mid Ch, 782									
1564.00	-0.6	V	3.0	37.1	1.0	-36.7	-13.0	-23.7	
2346.00	-17.5	V	3.0	36.5	1.0	-53.0	-13.0	-40.0	
3128.00	-20.3	V	3.0	36.3	1.0	-55.6	-13.0	-42.6	
1564.00	-3.8	H	3.0	37.1	1.0	-39.9	-13.0	-26.9	
2346.00	-23.9	H	3.0	36.5	1.0	-59.4	-13.0	-46.4	
3128.00	-21.7	H	3.0	36.3	1.0	-56.9	-13.0	-43.9	
High Ch, 782									
1564.00	0.0	V	3.0	37.1	1.0	-36.1	-13.0	-23.1	
2346.00	0.0	V	3.0	36.5	1.0	-35.5	-13.0	-22.5	
3128.00	0.0	V	3.0	36.3	1.0	-35.3	-13.0	-22.3	
1564.00	0.0	H	3.0	37.1	1.0	-36.1	-13.0	-23.1	
2346.00	0.0	H	3.0	36.5	1.0	-35.5	-13.0	-22.5	
3128.00	0.0	H	3.0	36.3	1.0	-35.3	-13.0	-22.3	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/31/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 13 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, 779.5									
Band	1559.00	-0.3	V	3.0	37.1	1.0	-36.4	-13.0	-23.4
	2338.50	-16.4	V	3.0	36.5	1.0	-51.9	-13.0	-38.9
	3118.00	-20.0	V	3.0	36.3	1.0	-55.3	-13.0	-42.3
LTE13	1559.00	-1.1	H	3.0	37.1	1.0	-37.2	-13.0	-24.2
	2338.50	-23.4	H	3.0	36.5	1.0	-58.9	-13.0	-45.9
5MHz	3118.00	-19.7	H	3.0	36.3	1.0	-54.9	-13.0	-41.9
Mid Ch, 782									
16QAM	1564.00	1.5	V	3.0	37.1	1.0	-34.6	-13.0	-21.6
	2346.00	-17.5	V	3.0	36.5	1.0	-53.0	-13.0	-40.0
	3128.00	-19.3	V	3.0	36.3	1.0	-54.6	-13.0	-41.6
	1564.00	-0.4	H	3.0	37.1	1.0	-36.6	-13.0	-23.6
	2346.00	-18.0	H	3.0	36.5	1.0	-53.5	-13.0	-40.5
	3128.00	-21.5	H	3.0	36.3	1.0	-56.8	-13.0	-43.8
High Ch, 784.5									
	1569.00	-1.0	V	3.0	37.1	1.0	-37.1	-13.0	-24.1
	2353.50	-14.4	V	3.0	36.5	1.0	-49.9	-13.0	-36.9
	3138.00	-20.5	V	3.0	36.3	1.0	-55.8	-13.0	-42.8
	1569.00	-3.8	H	3.0	37.1	1.0	-39.9	-13.0	-26.9
	2353.50	-18.0	H	3.0	36.5	1.0	-53.5	-13.0	-40.5
	3138.00	-21.7	H	3.0	36.3	1.0	-56.9	-13.0	-43.9

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/31/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 13 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, 779.5									
Band	1559.00	-0.3	V	3.0	37.1	1.0	-36.5	-13.0	-23.5
	2338.50	-16.9	V	3.0	36.5	1.0	-52.4	-13.0	-39.4
	3118.00	-20.1	V	3.0	36.3	1.0	-55.4	-13.0	-42.4
LTE13	1559.00	-2.0	H	3.0	37.1	1.0	-38.2	-13.0	-25.2
	2338.50	-23.5	H	3.0	36.5	1.0	-59.0	-13.0	-46.0
5MHz	3118.00	-21.3	H	3.0	36.3	1.0	-56.6	-13.0	-43.6
Mid Ch, 782									
QPSK	1564.00	-0.7	V	3.0	37.1	1.0	-36.8	-13.0	-23.8
	2346.00	-16.6	V	3.0	36.5	1.0	-52.1	-13.0	-39.1
	3128.00	-19.9	V	3.0	36.3	1.0	-55.2	-13.0	-42.2
	1564.00	-2.3	H	3.0	37.1	1.0	-38.4	-13.0	-25.4
	2346.00	-20.4	H	3.0	36.5	1.0	-55.9	-13.0	-42.9
	3128.00	-20.7	H	3.0	36.3	1.0	-56.0	-13.0	-43.0
High Ch, 784.5									
	1569.00	-1.7	V	3.0	37.1	1.0	-37.8	-13.0	-24.8
	2353.50	-14.3	V	3.0	36.5	1.0	-49.8	-13.0	-36.8
	3138.00	-20.2	V	3.0	36.3	1.0	-55.5	-13.0	-42.5
	1569.00	-3.8	H	3.0	37.1	1.0	-40.0	-13.0	-27.0
	2353.50	-18.1	H	3.0	36.5	1.0	-53.6	-13.0	-40.6
	3138.00	-20.3	H	3.0	36.3	1.0	-55.6	-13.0	-42.6

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 7 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, 2510									
5020.00	-15.9	V	3.0	35.5	1.0	-50.4	-25.0	-25.4	
7530.00	-15.2	V	3.0	35.7	1.0	-50.0	-25.0	-25.0	
10040.00	-14.2	V	3.0	36.0	1.0	-49.2	-25.0	-24.2	
LTE7									
5020.00	-15.8	H	3.0	35.5	1.0	-50.3	-25.0	-25.3	
7530.00	-14.1	H	3.0	35.7	1.0	-48.9	-25.0	-23.9	
10040.00	-12.5	H	3.0	36.0	1.0	-47.5	-25.0	-22.5	
20MHz									
Mid Ch, 2535									
5070.00	-15.7	V	3.0	35.4	1.0	-50.1	-25.0	-25.1	
7605.00	-14.3	V	3.0	35.8	1.0	-49.0	-25.0	-24.0	
10140.00	-12.5	V	3.0	36.0	1.0	-47.5	-25.0	-22.5	
16QAM									
5070.00	-15.7	H	3.0	35.4	1.0	-50.2	-25.0	-25.2	
7605.00	-14.7	H	3.0	35.8	1.0	-49.5	-25.0	-24.5	
10140.00	-13.1	H	3.0	36.0	1.0	-48.0	-25.0	-23.0	
High Ch, 2560									
5120.00	-16.0	V	3.0	35.4	1.0	-50.4	-25.0	-25.4	
7680.00	-15.2	V	3.0	35.8	1.0	-50.0	-25.0	-25.0	
10240.00	-12.9	V	3.0	35.9	1.0	-47.8	-25.0	-22.8	
5120.00	-16.4	H	3.0	35.4	1.0	-50.9	-25.0	-25.9	
7680.00	-13.6	H	3.0	35.8	1.0	-48.4	-25.0	-23.4	
10240.00	-11.3	H	3.0	35.9	1.0	-46.2	-25.0	-21.2	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 7 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, 2510									
5020.00	-16.3	V	3.0	35.5	1.0	-50.8	-25.0	-25.8	
7530.00	-15.7	V	3.0	35.7	1.0	-50.4	-25.0	-25.4	
10040.00	-12.6	V	3.0	36.0	1.0	-47.6	-25.0	-22.6	
LTE7									
5020.00	-16.4	H	3.0	35.5	1.0	-50.8	-25.0	-25.8	
7530.00	-13.7	H	3.0	35.7	1.0	-48.5	-25.0	-23.5	
20MHz									
10040.00	-12.1	H	3.0	36.0	1.0	-47.1	-25.0	-22.1	
Mid Ch, 2535									
QPSK									
5070.00	-15.0	V	3.0	35.4	1.0	-49.4	-25.0	-24.4	
7605.00	-14.8	V	3.0	35.8	1.0	-49.5	-25.0	-24.5	
10140.00	-13.3	V	3.0	36.0	1.0	-48.3	-25.0	-23.3	
5070.00	-14.7	H	3.0	35.4	1.0	-49.2	-25.0	-24.2	
7605.00	-14.2	H	3.0	35.8	1.0	-49.0	-25.0	-24.0	
10140.00	-12.7	H	3.0	36.0	1.0	-47.6	-25.0	-22.6	
High Ch, 2560									
5120.00	-15.8	V	3.0	35.4	1.0	-50.2	-25.0	-25.2	
7680.00	-14.7	V	3.0	35.8	1.0	-49.5	-25.0	-24.5	
10240.00	-13.1	V	3.0	35.9	1.0	-48.0	-25.0	-23.0	
5120.00	-15.4	H	3.0	35.4	1.0	-49.8	-25.0	-24.8	
7680.00	-13.8	H	3.0	35.8	1.0	-48.6	-25.0	-23.6	
10240.00	-12.4	H	3.0	35.9	1.0	-47.3	-25.0	-22.3	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		4/1/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 7 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, 2507.5									
Band	5015.00	-16.1	V	3.0	35.5	1.0	-50.6	-25.0	-25.6
	7522.50	-15.7	V	3.0	35.7	1.0	-50.4	-25.0	-25.4
	10030.00	-13.5	V	3.0	36.0	1.0	-48.5	-25.0	-23.5
LTE7	5015.00	-15.4	H	3.0	35.5	1.0	-49.8	-25.0	-24.8
	7522.50	-14.0	H	3.0	35.7	1.0	-48.8	-25.0	-23.8
15MHz	10030.00	-12.3	H	3.0	36.0	1.0	-47.3	-25.0	-22.3
Mid Ch, 2535									
16QAM	5070.00	-15.0	V	3.0	35.4	1.0	-49.5	-25.0	-24.5
	7605.00	-14.2	V	3.0	35.8	1.0	-48.9	-25.0	-23.9
	10140.00	-13.0	V	3.0	36.0	1.0	-47.9	-25.0	-22.9
	5070.00	-13.9	H	3.0	35.4	1.0	-48.3	-25.0	-23.3
	7605.00	-13.9	H	3.0	35.8	1.0	-48.6	-25.0	-23.6
	10140.00	-12.1	H	3.0	36.0	1.0	-47.0	-25.0	-22.0
High Ch, 2562.5									
	5125.00	-15.5	V	3.0	35.4	1.0	-50.0	-25.0	-25.0
	7687.50	-14.7	V	3.0	35.8	1.0	-49.5	-25.0	-24.5
	10250.00	-13.0	V	3.0	35.9	1.0	-47.9	-25.0	-22.9
	5125.00	-12.6	H	3.0	35.4	1.0	-47.0	-25.0	-22.0
	7687.50	-13.9	H	3.0	35.8	1.0	-48.7	-25.0	-23.7
	10250.00	-12.8	H	3.0	35.9	1.0	-47.7	-25.0	-22.7

UL Verification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		4/1/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 7 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, 2507.5									
5015.00	-15.5	V	3.0	35.5	1.0	-50.0	-25.0	-25.0	
7522.50	-16.2	V	3.0	35.7	1.0	-50.9	-25.0	-25.9	
10030.00	-13.4	V	3.0	36.0	1.0	-48.4	-25.0	-23.4	
5015.00	-15.7	H	3.0	35.5	1.0	-50.1	-25.0	-25.1	
7522.50	-15.0	H	3.0	35.7	1.0	-49.7	-25.0	-24.7	
10030.00	-12.0	H	3.0	36.0	1.0	-47.0	-25.0	-22.0	
Mid Ch, 2535									
5070.00	-14.4	V	3.0	35.4	1.0	-48.9	-25.0	-23.9	
7605.00	-14.4	V	3.0	35.8	1.0	-49.2	-25.0	-24.2	
10140.00	-13.2	V	3.0	36.0	1.0	-48.2	-25.0	-23.2	
5070.00	-12.3	H	3.0	35.4	1.0	-46.7	-25.0	-21.7	
7605.00	-13.7	H	3.0	35.8	1.0	-48.5	-25.0	-23.5	
10140.00	-12.2	H	3.0	36.0	1.0	-47.1	-25.0	-22.1	
High Ch, 2562.5									
5125.00	-15.9	V	3.0	35.4	1.0	-50.3	-25.0	-25.3	
7687.50	-13.9	V	3.0	35.8	1.0	-48.7	-25.0	-23.7	
10250.00	-13.0	V	3.0	35.9	1.0	-47.9	-25.0	-22.9	
5125.00	-12.2	H	3.0	35.4	1.0	-46.6	-25.0	-21.6	
7687.50	-12.4	H	3.0	35.8	1.0	-47.2	-25.0	-22.2	
10250.00	-11.3	H	3.0	35.9	1.0	-46.2	-25.0	-21.2	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 7 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, 2505									
5010.00	-16.1	V	3.0	35.5	1.0	-50.6	-25.0	-25.6	
7515.00	-14.8	V	3.0	35.7	1.0	-49.5	-25.0	-24.5	
10020.00	-13.2	V	3.0	36.0	1.0	-48.2	-25.0	-23.2	
5010.00	-15.4	H	3.0	35.5	1.0	-49.9	-25.0	-24.9	
7515.00	-13.3	H	3.0	35.7	1.0	-48.0	-25.0	-23.0	
10020.00	-12.5	H	3.0	36.0	1.0	-47.5	-25.0	-22.5	
Mid Ch, 2535									
5070.00	-15.1	V	3.0	35.4	1.0	-49.6	-25.0	-24.6	
7605.00	-14.9	V	3.0	35.8	1.0	-49.6	-25.0	-24.6	
10140.00	-12.6	V	3.0	36.0	1.0	-47.5	-25.0	-22.5	
5070.00	-15.4	H	3.0	35.4	1.0	-49.9	-25.0	-24.9	
7605.00	-13.1	H	3.0	35.8	1.0	-47.9	-25.0	-22.9	
10140.00	-11.6	H	3.0	36.0	1.0	-46.5	-25.0	-21.5	
High Ch, 2565									
5130.00	-15.3	V	3.0	35.4	1.0	-49.7	-25.0	-24.7	
7695.00	-14.8	V	3.0	35.8	1.0	-49.5	-25.0	-24.5	
10260.00	-10.8	V	3.0	35.9	1.0	-45.7	-25.0	-20.7	
5130.00	-14.5	H	3.0	35.4	1.0	-49.0	-25.0	-24.0	
7695.00	-12.4	H	3.0	35.8	1.0	-47.1	-25.0	-22.1	
10260.00	-10.9	H	3.0	35.9	1.0	-45.8	-25.0	-20.8	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 7 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, 2505									
5010.00	-15.0	V	3.0	35.5	1.0	-49.4	-25.0	-24.4	
7515.00	-15.4	V	3.0	35.7	1.0	-50.1	-25.0	-25.1	
10020.00	-12.9	V	3.0	36.0	1.0	-47.9	-25.0	-22.9	
5010.00	-16.2	H	3.0	35.5	1.0	-50.6	-25.0	-25.6	
7515.00	-13.3	H	3.0	35.7	1.0	-48.0	-25.0	-23.0	
10020.00	-11.6	H	3.0	36.0	1.0	-46.6	-25.0	-21.6	
Mid Ch, 2535									
5070.00	-15.2	V	3.0	35.4	1.0	-49.7	-25.0	-24.7	
7605.00	-11.1	V	3.0	35.8	1.0	-45.8	-25.0	-20.8	
10140.00	-11.8	V	3.0	36.0	1.0	-46.7	-25.0	-21.7	
5070.00	-14.5	H	3.0	35.4	1.0	-49.0	-25.0	-24.0	
7605.00	-14.2	H	3.0	35.8	1.0	-48.9	-25.0	-23.9	
10140.00	-11.4	H	3.0	36.0	1.0	-46.4	-25.0	-21.4	
High Ch, 2565									
5130.00	-16.0	V	3.0	35.4	1.0	-50.4	-25.0	-25.4	
7695.00	-14.3	V	3.0	35.8	1.0	-49.0	-25.0	-24.0	
10260.00	-11.9	V	3.0	35.9	1.0	-46.8	-25.0	-21.8	
5130.00	-13.8	H	3.0	35.4	1.0	-48.2	-25.0	-23.2	
7695.00	-13.7	H	3.0	35.8	1.0	-48.5	-25.0	-23.5	
10260.00	-10.1	H	3.0	35.9	1.0	-45.0	-25.0	-20.0	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 7 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, 2502.5									
Band	5005.00	-12.6	V	3.0	35.5	1.0	-47.0	-25.0	-22.0
	7507.50	-14.2	V	3.0	35.7	1.0	-48.9	-25.0	-23.9
	10010.00	-9.3	V	3.0	36.0	1.0	-44.3	-25.0	-19.3
LTE7	5005.00	-14.4	H	3.0	35.5	1.0	-48.8	-25.0	-23.8
	7507.50	-12.5	H	3.0	35.7	1.0	-47.2	-25.0	-22.2
5MHz	10010.00	-11.6	H	3.0	36.0	1.0	-46.6	-25.0	-21.6
Mid Ch, 2535									
16QAM	5070.00	-11.9	V	3.0	35.4	1.0	-46.3	-25.0	-21.3
	7605.00	-13.4	V	3.0	35.8	1.0	-48.2	-25.0	-23.2
	10140.00	-8.6	V	3.0	36.0	1.0	-43.6	-25.0	-18.6
	5070.00	-11.7	H	3.0	35.4	1.0	-46.2	-25.0	-21.2
	7605.00	-13.9	H	3.0	35.8	1.0	-48.7	-25.0	-23.7
	10140.00	-10.6	H	3.0	36.0	1.0	-45.6	-25.0	-20.6
High Ch, 2567.5									
	5135.00	-14.2	V	3.0	35.4	1.0	-48.6	-25.0	-23.6
	7702.50	-12.8	V	3.0	35.8	1.0	-47.6	-25.0	-22.6
	10270.00	-7.7	V	3.0	35.9	1.0	-42.6	-25.0	-17.6
	5135.00	-10.2	H	3.0	35.4	1.0	-44.6	-25.0	-19.6
	7702.50	-14.1	H	3.0	35.8	1.0	-48.9	-25.0	-23.9
	10270.00	-9.8	H	3.0	35.9	1.0	-44.7	-25.0	-19.7

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 7 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, 2502.5									
Band	5005.00	-12.0	V	3.0	35.5	1.0	-46.5	-25.0	-21.5
	7507.50	-13.5	V	3.0	35.7	1.0	-48.3	-25.0	-23.3
	10010.00	-7.4	V	3.0	36.0	1.0	-42.4	-25.0	-17.4
LTE7	5005.00	-14.6	H	3.0	35.5	1.0	-49.1	-25.0	-24.1
	7507.50	-12.8	H	3.0	35.7	1.0	-47.6	-25.0	-22.6
5MHz	10010.00	-12.4	H	3.0	36.0	1.0	-47.4	-25.0	-22.4
Mid Ch, 2535									
QPSK	5070.00	-10.7	V	3.0	35.4	1.0	-45.2	-25.0	-20.2
	7605.00	-13.8	V	3.0	35.8	1.0	-48.6	-25.0	-23.6
	10140.00	-6.9	V	3.0	36.0	1.0	-41.8	-25.0	-16.8
	5070.00	-10.2	H	3.0	35.4	1.0	-44.7	-25.0	-19.7
	7605.00	-13.9	H	3.0	35.8	1.0	-48.6	-25.0	-23.6
	10140.00	-11.2	H	3.0	36.0	1.0	-46.1	-25.0	-21.1
High Ch, 2567.5									
	5135.00	-13.3	V	3.0	35.4	1.0	-47.7	-25.0	-22.7
	7702.50	-13.3	V	3.0	35.8	1.0	-48.0	-25.0	-23.0
	10270.00	-6.7	V	3.0	35.9	1.0	-41.6	-25.0	-16.6
	5135.00	-10.4	H	3.0	35.4	1.0	-44.8	-25.0	-19.8
	7702.50	-13.5	H	3.0	35.8	1.0	-48.3	-25.0	-23.3
	10270.00	-8.6	H	3.0	35.9	1.0	-43.5	-25.0	-18.5

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 5 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 829									
1658.00	-1.2	V	3.0	37.0	1.0	-37.2	-13.0	-24.2	
2487.00	-17.4	V	3.0	36.4	1.0	-52.8	-13.0	-39.8	
3316.00	-19.9	V	3.0	36.1	1.0	-55.0	-13.0	-42.0	
LTES									
1658.00	-6.9	H	3.0	37.0	1.0	-43.0	-13.0	-30.0	
2487.00	-23.1	H	3.0	36.4	1.0	-58.5	-13.0	-45.5	
3316.00	-20.8	H	3.0	36.1	1.0	-56.0	-13.0	-43.0	
10MHz									
Mid Ch, 836.5									
1673.00	1.1	V	3.0	37.0	1.0	-34.9	-13.0	-21.9	
2509.50	-19.7	V	3.0	36.4	1.0	-55.1	-13.0	-42.1	
3346.00	-21.1	V	3.0	36.1	1.0	-56.3	-13.0	-43.3	
16QAM									
1673.00	-6.1	H	3.0	37.0	1.0	-42.1	-13.0	-29.1	
2509.50	-22.2	H	3.0	36.4	1.0	-57.6	-13.0	-44.6	
3346.00	-20.8	H	3.0	36.1	1.0	-56.0	-13.0	-43.0	
High Ch, 844									
1688.00	0.2	V	3.0	37.0	1.0	-35.7	-13.0	-22.7	
2532.00	-16.3	V	3.0	36.4	1.0	-51.8	-13.0	-38.8	
3376.00	-20.1	V	3.0	36.1	1.0	-55.2	-13.0	-42.2	
1688.00	-6.8	H	3.0	37.0	1.0	-42.8	-13.0	-29.8	
2532.00	-21.5	H	3.0	36.4	1.0	-56.9	-13.0	-43.9	
3376.00	-19.5	H	3.0	36.1	1.0	-54.6	-13.0	-41.6	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 5 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 829									
1658.00	-1.1	V	3.0	37.0	1.0	-37.1	-13.0	-24.1	
2487.00	-16.9	V	3.0	36.4	1.0	-52.3	-13.0	-39.3	
3316.00	-19.8	V	3.0	36.1	1.0	-55.0	-13.0	-42.0	
LTES									
1658.00	-7.7	H	3.0	37.0	1.0	-43.7	-13.0	-30.7	
2487.00	-21.3	H	3.0	36.4	1.0	-56.7	-13.0	-43.7	
3316.00	-21.1	H	3.0	36.1	1.0	-56.3	-13.0	-43.3	
10MHz									
Mid Ch, 836.5									
1673.00	0.7	V	3.0	37.0	1.0	-35.3	-13.0	-22.3	
2509.50	-19.3	V	3.0	36.4	1.0	-54.7	-13.0	-41.7	
3346.00	-20.4	V	3.0	36.1	1.0	-55.5	-13.0	-42.5	
QPSK									
1673.00	-6.3	H	3.0	37.0	1.0	-42.3	-13.0	-29.3	
2509.50	-23.1	H	3.0	36.4	1.0	-58.5	-13.0	-45.5	
3346.00	-21.1	H	3.0	36.1	1.0	-56.2	-13.0	-43.2	
High Ch, 844									
1688.00	0.7	V	3.0	37.0	1.0	-35.3	-13.0	-22.3	
2532.00	-14.7	V	3.0	36.4	1.0	-50.1	-13.0	-37.1	
3376.00	-20.7	V	3.0	36.1	1.0	-55.8	-13.0	-42.8	
1688.00	-7.1	H	3.0	37.0	1.0	-43.1	-13.0	-30.1	
2532.00	-21.3	H	3.0	36.4	1.0	-56.7	-13.0	-43.7	
3376.00	-20.6	H	3.0	36.1	1.0	-55.7	-13.0	-42.7	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20402								
Date:		3/30/2015								
Test Engineer:		J. Hsu								
Configuration:		EUT w/ AC Adapter + Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 5 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 826.5									
	1653.00	-1.5	V	3.0	37.0	1.0	-37.5	-13.0	-24.5	
	2479.50	-17.8	V	3.0	36.4	1.0	-53.2	-13.0	-40.2	
LTE5	3306.00	-20.6	V	3.0	36.1	1.0	-55.8	-13.0	-42.8	
	1653.00	-6.2	H	3.0	37.0	1.0	-42.2	-13.0	-29.2	
	2479.50	-23.5	H	3.0	36.4	1.0	-58.9	-13.0	-45.9	
5MHz	3306.00	-21.3	H	3.0	36.1	1.0	-56.4	-13.0	-43.4	
	Mid Ch, 836.5									
	1673.00	1.8	V	3.0	37.0	1.0	-34.2	-13.0	-21.2	
16QAM	2509.50	-17.5	V	3.0	36.4	1.0	-52.9	-13.0	-39.9	
	3346.00	-20.8	V	3.0	36.1	1.0	-55.9	-13.0	-42.9	
	1673.00	-1.9	H	3.0	37.0	1.0	-37.9	-13.0	-24.9	
	2509.50	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3	
	3346.00	-19.9	H	3.0	36.1	1.0	-55.0	-13.0	-42.0	
	High Ch, 846.5									
	1693.00	1.9	V	3.0	37.0	1.0	-34.1	-13.0	-21.1	
	2539.50	-13.0	V	3.0	36.4	1.0	-48.4	-13.0	-35.4	
	3386.00	-19.4	V	3.0	36.1	1.0	-54.5	-13.0	-41.5	
	1693.00	-6.5	H	3.0	37.0	1.0	-42.5	-13.0	-29.5	
	2539.50	-21.6	H	3.0	36.4	1.0	-57.0	-13.0	-44.0	
	3386.00	-20.8	H	3.0	36.1	1.0	-55.9	-13.0	-42.9	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20402								
Date:		3/30/2015								
Test Engineer:		J. Hsu								
Configuration:		EUT w/ AC Adapter + Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 5 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 826.5									
Band	1653.00	-2.3	V	3.0	37.0	1.0	-38.3	-13.0	-25.3	
	2479.50	-16.6	V	3.0	36.4	1.0	-52.1	-13.0	-39.1	
	3306.00	-20.7	V	3.0	36.1	1.0	-55.8	-13.0	-42.8	
LTES	1653.00	-5.7	H	3.0	37.0	1.0	-41.7	-13.0	-28.7	
	2479.50	-21.5	H	3.0	36.4	1.0	-57.0	-13.0	-44.0	
	3306.00	-20.9	H	3.0	36.1	1.0	-56.0	-13.0	-43.0	
5MHz	Mid Ch, 836.5									
	1673.00	1.5	V	3.0	37.0	1.0	-34.5	-13.0	-21.5	
	2509.50	-19.0	V	3.0	36.4	1.0	-54.4	-13.0	-41.4	
QPSK	3346.00	-19.9	V	3.0	36.1	1.0	-55.0	-13.0	-42.0	
	1673.00	-2.9	H	3.0	37.0	1.0	-38.9	-13.0	-25.9	
	2509.50	-21.8	H	3.0	36.4	1.0	-57.2	-13.0	-44.2	
	3346.00	-20.0	H	3.0	36.1	1.0	-55.1	-13.0	-42.1	
	High Ch, 846.5									
	1693.00	1.6	V	3.0	37.0	1.0	-34.3	-13.0	-21.3	
	2539.50	-13.5	V	3.0	36.4	1.0	-48.9	-13.0	-35.9	
	3386.00	-20.1	V	3.0	36.1	1.0	-55.2	-13.0	-42.2	
	1693.00	-7.5	H	3.0	37.0	1.0	-43.5	-13.0	-30.5	
	2539.50	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3	
	3386.00	-20.5	H	3.0	36.1	1.0	-55.6	-13.0	-42.6	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement											
Company:		LG Electronics									
Project #:		15I20402									
Date:		3/30/2015									
Test Engineer:		J. Hsu									
Configuration:		EUT w/ AC Adapter + Headset									
Location:		Chamber G									
Mode:		LTE_16QAM Band 5 Harmonics, 3MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band	Low Ch, 825.5										
		1651.00	-0.3	V	3.0	37.0	1.0	-36.3	-13.0	-23.3	
		2476.50	-9.7	V	3.0	36.4	1.0	-45.1	-13.0	-32.1	
		3302.00	-19.9	V	3.0	36.2	1.0	-55.0	-13.0	-42.0	
	LTE5		1651.00	-11.3	H	3.0	37.0	1.0	-47.3	-13.0	-34.3
			2476.50	-25.2	H	3.0	36.4	1.0	-60.7	-13.0	-47.7
			3302.00	-21.6	H	3.0	36.2	1.0	-56.7	-13.0	-43.7
	3MHz	Mid Ch, 836.5									
			1673.00	3.6	V	3.0	37.0	1.0	-32.4	-13.0	-19.4
		2509.50	-17.7	V	3.0	36.4	1.0	-53.1	-13.0	-40.1	
		3346.00	-21.0	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
16QAM			1673.00	-1.9	H	3.0	37.0	1.0	-37.9	-13.0	-24.9
			2509.50	-22.0	H	3.0	36.4	1.0	-57.4	-13.0	-44.4
			3346.00	-20.8	H	3.0	36.1	1.0	-55.9	-13.0	-42.9
		High Ch, 847.5									
			1695.00	2.5	V	3.0	37.0	1.0	-33.5	-13.0	-20.5
		2542.50	-18.8	V	3.0	36.4	1.0	-54.2	-13.0	-41.2	
		3390.00	-21.2	V	3.0	36.1	1.0	-56.3	-13.0	-43.3	
		1695.00	-7.6	H	3.0	37.0	1.0	-43.6	-13.0	-30.6	
		2542.50	-23.6	H	3.0	36.4	1.0	-59.0	-13.0	-46.0	
	3390.00	-21.3	H	3.0	36.1	1.0	-56.4	-13.0	-43.4		

UL Verification Services, Inc										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20402								
Date:		3/30/2015								
Test Engineer:		J. Hsu								
Configuration:		EUT w/ AC Adapter + Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 5 Harmonics, 3MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 825.5									
Band	1651.00	-1.6	V	3.0	37.0	1.0	-37.6	-13.0	-24.6	
	2476.50	-8.8	V	3.0	36.4	1.0	-44.2	-13.0	-31.2	
	3302.00	-19.0	V	3.0	36.2	1.0	-54.2	-13.0	-41.2	
LTES	1651.00	-10.3	H	3.0	37.0	1.0	-46.3	-13.0	-33.3	
	2476.50	-24.5	H	3.0	36.4	1.0	-60.0	-13.0	-47.0	
	3302.00	-21.0	H	3.0	36.2	1.0	-56.2	-13.0	-43.2	
3MHz	Mid Ch, 836.5									
	1673.00	2.6	V	3.0	37.0	1.0	-33.4	-13.0	-20.4	
	2509.50	-16.6	V	3.0	36.4	1.0	-52.0	-13.0	-39.0	
QPSK	3346.00	-19.8	V	3.0	36.1	1.0	-54.9	-13.0	-41.9	
	1673.00	-1.9	H	3.0	37.0	1.0	-37.9	-13.0	-24.9	
	2509.50	-22.8	H	3.0	36.4	1.0	-58.2	-13.0	-45.2	
	3346.00	-20.7	H	3.0	36.1	1.0	-55.8	-13.0	-42.8	
	High Ch, 847.5									
	1695.00	2.9	V	3.0	37.0	1.0	-33.1	-13.0	-20.1	
	2542.50	-18.0	V	3.0	36.4	1.0	-53.5	-13.0	-40.5	
	3390.00	-20.5	V	3.0	36.1	1.0	-55.6	-13.0	-42.6	
	1695.00	-6.1	H	3.0	37.0	1.0	-42.0	-13.0	-29.0	
	2542.50	-22.3	H	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	3390.00	-20.5	H	3.0	36.1	1.0	-55.5	-13.0	-42.5	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 5 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7									
1649.40	4.4	V	3.0	37.0	1.0	-31.6	-13.0	-18.6	
2474.10	-15.6	V	3.0	36.4	1.0	-51.0	-13.0	-38.0	
3298.80	-19.6	V	3.0	36.2	1.0	-54.8	-13.0	-41.8	
LTES									
1649.40	-14.1	H	3.0	37.0	1.0	-50.1	-13.0	-37.1	
2474.10	-23.8	H	3.0	36.4	1.0	-59.2	-13.0	-46.2	
3298.80	-21.3	H	3.0	36.2	1.0	-56.5	-13.0	-43.5	
1.4MHz									
Mid Ch, 836.5									
1673.00	6.5	V	3.0	37.0	1.0	-29.5	-13.0	-16.5	
2509.50	-15.3	V	3.0	36.4	1.0	-50.7	-13.0	-37.7	
3346.00	-20.5	V	3.0	36.1	1.0	-55.7	-13.0	-42.7	
1673.00	-15.0	H	3.0	37.0	1.0	-51.0	-13.0	-38.0	
2509.50	-23.5	H	3.0	36.4	1.0	-58.9	-13.0	-45.9	
3346.00	-21.0	H	3.0	36.1	1.0	-56.1	-13.0	-43.1	
16QAM									
High Ch, 848.3									
1696.60	3.8	V	3.0	37.0	1.0	-32.2	-13.0	-19.2	
2544.90	-15.8	V	3.0	36.4	1.0	-51.2	-13.0	-38.2	
3393.20	-20.8	V	3.0	36.1	1.0	-55.8	-13.0	-42.8	
1696.60	-15.5	H	3.0	37.0	1.0	-51.5	-13.0	-38.5	
2544.90	-21.3	H	3.0	36.4	1.0	-56.7	-13.0	-43.7	
3393.20	-20.0	H	3.0	36.1	1.0	-55.1	-13.0	-42.1	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 5 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7									
Band	1649.40	4.3	V	3.0	37.0	1.0	-31.7	-13.0	-18.7
	2474.10	-16.0	V	3.0	36.4	1.0	-51.4	-13.0	-38.4
	3298.80	-19.4	V	3.0	36.2	1.0	-54.6	-13.0	-41.6
LTES	1649.40	-17.0	H	3.0	37.0	1.0	-53.0	-13.0	-40.0
	2474.10	-23.4	H	3.0	36.4	1.0	-58.8	-13.0	-45.8
1.4MHz	3298.80	-20.4	H	3.0	36.2	1.0	-55.5	-13.0	-42.5
Mid Ch, 836.5									
QPSK	1673.00	6.8	V	3.0	37.0	1.0	-29.2	-13.0	-16.2
	2509.50	-14.7	V	3.0	36.4	1.0	-50.1	-13.0	-37.1
	3346.00	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7
	1673.00	-15.0	H	3.0	37.0	1.0	-51.0	-13.0	-38.0
	2509.50	-23.2	H	3.0	36.4	1.0	-58.6	-13.0	-45.6
	3346.00	-20.4	H	3.0	36.1	1.0	-55.5	-13.0	-42.5
High Ch, 848.3									
	1696.60	3.3	V	3.0	37.0	1.0	-32.6	-13.0	-19.6
	2544.90	-16.0	V	3.0	36.4	1.0	-51.4	-13.0	-38.4
	3393.20	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7
	1696.60	-25.5	H	3.0	37.0	1.0	-61.5	-13.0	-48.5
	2544.90	-22.9	H	3.0	36.4	1.0	-58.3	-13.0	-45.3
	3393.20	-20.4	H	3.0	36.1	1.0	-55.5	-13.0	-42.5

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 4 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1720									
Band	3440.00	-19.9	V	3.0	36.0	1.0	-54.9	-13.0	-41.9
	5160.00	-16.1	V	3.0	35.4	1.0	-50.5	-13.0	-37.5
	6880.00	-17.3	V	3.0	35.7	1.0	-52.0	-13.0	-39.0
LTE4	3440.00	-20.5	H	3.0	36.0	1.0	-55.5	-13.0	-42.5
	5160.00	-15.2	H	3.0	35.4	1.0	-49.7	-13.0	-36.7
20MHz	6880.00	-15.2	H	3.0	35.7	1.0	-49.8	-13.0	-36.8
Mid Ch, 1732.5									
16QAM	3465.00	-21.1	V	3.0	36.0	1.0	-56.1	-13.0	-43.1
	5197.50	-17.4	V	3.0	35.4	1.0	-51.8	-13.0	-38.8
	6930.00	-16.1	V	3.0	35.7	1.0	-50.8	-13.0	-37.8
	3465.00	-21.3	H	3.0	36.0	1.0	-56.4	-13.0	-43.4
	5197.50	-17.0	H	3.0	35.4	1.0	-51.5	-13.0	-38.5
	6930.00	-15.3	H	3.0	35.7	1.0	-49.9	-13.0	-36.9
High Ch, 1745									
	3490.00	-20.5	V	3.0	36.0	1.0	-55.5	-13.0	-42.5
	5235.00	-15.3	V	3.0	35.4	1.0	-49.8	-13.0	-36.8
	6980.00	-16.6	V	3.0	35.7	1.0	-51.3	-13.0	-38.3
	3490.00	-20.5	H	3.0	36.0	1.0	-55.5	-13.0	-42.5
	5235.00	-14.8	H	3.0	35.4	1.0	-49.2	-13.0	-36.2
	6980.00	-14.8	H	3.0	35.7	1.0	-49.5	-13.0	-36.5

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
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									
Band	3440.00	-21.5	V	3.0	36.0	1.0	-56.6	-13.0	-43.6
	5160.00	-16.8	V	3.0	35.4	1.0	-51.2	-13.0	-38.2
	6880.00	-17.0	V	3.0	35.7	1.0	-51.7	-13.0	-38.7
LTE4	3440.00	-21.0	H	3.0	36.0	1.0	-56.1	-13.0	-43.1
	5160.00	-16.2	H	3.0	35.4	1.0	-50.6	-13.0	-37.6
20MHz	6880.00	-15.2	H	3.0	35.7	1.0	-49.8	-13.0	-36.8
Mid Ch, 1732.5									
	3465.00	-21.2	V	3.0	36.0	1.0	-56.3	-13.0	-43.3
QPSK	5197.50	-16.7	V	3.0	35.4	1.0	-51.1	-13.0	-38.1
	6930.00	-16.6	V	3.0	35.7	1.0	-51.3	-13.0	-38.3
	3465.00	-20.8	H	3.0	36.0	1.0	-55.8	-13.0	-42.8
	5197.50	-16.1	H	3.0	35.4	1.0	-50.5	-13.0	-37.5
	6930.00	-15.2	H	3.0	35.7	1.0	-49.9	-13.0	-36.9
High Ch, 1745									
	3490.00	-20.8	V	3.0	36.0	1.0	-55.8	-13.0	-42.8
	5235.00	-17.1	V	3.0	35.4	1.0	-51.6	-13.0	-38.6
	6980.00	-15.5	V	3.0	35.7	1.0	-50.2	-13.0	-37.2
	3490.00	-21.1	H	3.0	36.0	1.0	-56.1	-13.0	-43.1
	5235.00	-15.7	H	3.0	35.4	1.0	-50.2	-13.0	-37.2
	6980.00	-14.9	H	3.0	35.7	1.0	-49.5	-13.0	-36.5

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
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									
Band	3435.00	-18.4	V	3.0	36.1	1.0	-53.5	-13.0	-40.5
	5152.50	-15.4	V	3.0	35.4	1.0	-49.8	-13.0	-36.8
	6870.00	-14.0	V	3.0	35.7	1.0	-48.6	-13.0	-35.6
LTE4	3435.00	-19.1	H	3.0	36.1	1.0	-54.1	-13.0	-41.1
	5152.50	-15.2	H	3.0	35.4	1.0	-49.7	-13.0	-36.7
15MHz	6870.00	-13.9	H	3.0	35.7	1.0	-48.6	-13.0	-35.6
Mid Ch, 1732.5									
16QAM	3465.00	-20.5	V	3.0	36.0	1.0	-55.6	-13.0	-42.6
	5197.50	-17.4	V	3.0	35.4	1.0	-51.8	-13.0	-38.8
	6930.00	-16.3	V	3.0	35.7	1.0	-51.0	-13.0	-38.0
	3465.00	-21.2	H	3.0	36.0	1.0	-56.2	-13.0	-43.2
	5197.50	-17.4	H	3.0	35.4	1.0	-51.8	-13.0	-38.8
	6930.00	-14.3	H	3.0	35.7	1.0	-49.0	-13.0	-36.0
High Ch, 1747.5									
	3495.00	-17.3	V	3.0	36.0	1.0	-52.3	-13.0	-39.3
	5242.50	-16.9	V	3.0	35.4	1.0	-51.3	-13.0	-38.3
	6990.00	-14.7	V	3.0	35.7	1.0	-49.4	-13.0	-36.4
	3495.00	-19.3	H	3.0	36.0	1.0	-54.3	-13.0	-41.3
	5242.50	-15.5	H	3.0	35.4	1.0	-49.9	-13.0	-36.9
	6990.00	-14.0	H	3.0	35.7	1.0	-48.7	-13.0	-35.7

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_QPSK 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									
Band	3435.00	-19.5	V	3.0	36.1	1.0	-54.6	-13.0	-41.6
	5152.50	-16.5	V	3.0	35.4	1.0	-50.9	-13.0	-37.9
	6870.00	-15.1	V	3.0	35.7	1.0	-49.7	-13.0	-36.7
LTE4	3435.00	-20.1	H	3.0	36.1	1.0	-55.2	-13.0	-42.2
	5152.50	-16.3	H	3.0	35.4	1.0	-50.7	-13.0	-37.7
15MHz	6870.00	-15.0	H	3.0	35.7	1.0	-49.7	-13.0	-36.7
Mid Ch, 1732.5									
	3465.00	-20.4	V	3.0	36.0	1.0	-55.4	-13.0	-42.4
QPSK	5197.50	-16.8	V	3.0	35.4	1.0	-51.2	-13.0	-38.2
	6930.00	-16.7	V	3.0	35.7	1.0	-51.4	-13.0	-38.4
	3465.00	-21.8	H	3.0	36.0	1.0	-56.8	-13.0	-43.8
	5197.50	-16.3	H	3.0	35.4	1.0	-50.7	-13.0	-37.7
	6930.00	-15.3	H	3.0	35.7	1.0	-50.0	-13.0	-37.0
High Ch, 1747.5									
	3495.00	-18.4	V	3.0	36.0	1.0	-53.4	-13.0	-40.4
	5242.50	-18.0	V	3.0	35.4	1.0	-52.4	-13.0	-39.4
	6990.00	-15.8	V	3.0	35.7	1.0	-50.5	-13.0	-37.5
	3495.00	-20.4	H	3.0	36.0	1.0	-55.4	-13.0	-42.4
	5242.50	-16.6	H	3.0	35.4	1.0	-51.0	-13.0	-38.0
	6990.00	-15.1	H	3.0	35.7	1.0	-49.8	-13.0	-36.8

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
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
Low Ch, 1715									
Band	3430.00	-17.9	V	3.0	36.1	1.0	-52.9	-13.0	-39.9
	5145.00	-18.2	V	3.0	35.4	1.0	-52.6	-13.0	-39.6
	6860.00	-16.1	V	3.0	35.7	1.0	-50.8	-13.0	-37.8
LTE4	3430.00	-20.6	H	3.0	36.1	1.0	-55.6	-13.0	-42.6
	5145.00	-17.2	H	3.0	35.4	1.0	-51.6	-13.0	-38.6
10MHz	6860.00	-16.4	H	3.0	35.7	1.0	-51.1	-13.0	-38.1
Mid Ch, 1732.5									
16QAM	3465.00	-19.4	V	3.0	36.0	1.0	-54.4	-13.0	-41.4
	5197.50	-16.5	V	3.0	35.4	1.0	-50.9	-13.0	-37.9
	6930.00	-14.5	V	3.0	35.7	1.0	-49.2	-13.0	-36.2
	3465.00	-21.6	H	3.0	36.0	1.0	-56.6	-13.0	-43.6
	5197.50	-16.5	H	3.0	35.4	1.0	-50.9	-13.0	-37.9
	6930.00	-14.6	H	3.0	35.7	1.0	-49.3	-13.0	-36.3
High Ch, 1750									
	3500.00	-19.8	V	3.0	36.0	1.0	-54.8	-13.0	-41.8
	5250.00	-16.7	V	3.0	35.4	1.0	-51.1	-13.0	-38.1
	7000.00	-16.2	V	3.0	35.7	1.0	-50.9	-13.0	-37.9
	3500.00	-20.9	H	3.0	36.0	1.0	-55.9	-13.0	-42.9
	5250.00	-16.3	H	3.0	35.4	1.0	-50.7	-13.0	-37.7
	7000.00	-15.1	H	3.0	35.7	1.0	-49.8	-13.0	-36.8

UL Verification Services, Inc									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
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
Band									
Low Ch, 1715									
3430.00	-18.7	V	3.0	36.1	1.0	-53.7	-13.0	-40.7	
5145.00	-17.3	V	3.0	35.4	1.0	-51.8	-13.0	-38.8	
LTE4									
6860.00	-16.1	V	3.0	35.7	1.0	-50.8	-13.0	-37.8	
3430.00	-20.0	H	3.0	36.1	1.0	-55.0	-13.0	-42.0	
10MHz									
5145.00	-16.6	H	3.0	35.4	1.0	-51.0	-13.0	-38.0	
6860.00	-15.8	H	3.0	35.7	1.0	-50.5	-13.0	-37.5	
QPSK									
Mid Ch, 1732.5									
3465.00	-18.8	V	3.0	36.0	1.0	-53.8	-13.0	-40.8	
5197.50	-15.8	V	3.0	35.4	1.0	-50.2	-13.0	-37.2	
6930.00	-13.4	V	3.0	35.7	1.0	-48.1	-13.0	-35.1	
3465.00	-21.0	H	3.0	36.0	1.0	-56.0	-13.0	-43.0	
5197.50	-15.1	H	3.0	35.4	1.0	-49.6	-13.0	-36.6	
6930.00	-16.2	H	3.0	35.7	1.0	-50.8	-13.0	-37.8	
High Ch, 1750									
3500.00	-18.4	V	3.0	36.0	1.0	-53.4	-13.0	-40.4	
5250.00	-16.9	V	3.0	35.4	1.0	-51.4	-13.0	-38.4	
7000.00	-13.8	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
3500.00	-20.3	H	3.0	36.0	1.0	-55.3	-13.0	-42.3	
5250.00	-15.7	H	3.0	35.4	1.0	-50.1	-13.0	-37.1	
7000.00	-14.5	H	3.0	35.7	1.0	-49.2	-13.0	-36.2	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
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									
Band	3425.00	-12.2	V	3.0	36.1	1.0	-47.3	-13.0	-34.3
	5137.50	-13.5	V	3.0	35.4	1.0	-47.9	-13.0	-34.9
	6850.00	-13.1	V	3.0	35.7	1.0	-47.8	-13.0	-34.8
LTE4	3425.00	-14.9	H	3.0	36.1	1.0	-49.9	-13.0	-36.9
	5137.50	-15.8	H	3.0	35.4	1.0	-50.2	-13.0	-37.2
5MHz	6850.00	-13.2	H	3.0	35.7	1.0	-47.9	-13.0	-34.9
Mid Ch, 1732.5									
16QAM	3465.00	-17.1	V	3.0	36.0	1.0	-52.2	-13.0	-39.2
	5197.50	-13.1	V	3.0	35.4	1.0	-47.5	-13.0	-34.5
	6930.00	-15.8	V	3.0	35.7	1.0	-50.4	-13.0	-37.4
	3465.00	-20.5	H	3.0	36.0	1.0	-55.6	-13.0	-42.6
	5197.50	-14.3	H	3.0	35.4	1.0	-48.8	-13.0	-35.8
	6930.00	-15.5	H	3.0	35.7	1.0	-50.2	-13.0	-37.2
High Ch, 1752.5									
	3505.00	-16.4	V	3.0	36.0	1.0	-51.4	-13.0	-38.4
	5257.50	-10.3	V	3.0	35.4	1.0	-44.8	-13.0	-31.8
	7010.00	-13.6	V	3.0	35.7	1.0	-48.2	-13.0	-35.2
	3505.00	-18.6	H	3.0	36.0	1.0	-53.6	-13.0	-40.6
	5257.50	-11.9	H	3.0	35.4	1.0	-46.4	-13.0	-33.4
	7010.00	-13.8	H	3.0	35.7	1.0	-48.5	-13.0	-35.5

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
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									
Band	3425.00	-12.5	V	3.0	36.1	1.0	-47.6	-13.0	-34.6
	5137.50	-15.3	V	3.0	35.4	1.0	-49.7	-13.0	-36.7
	6850.00	-14.4	V	3.0	35.7	1.0	-49.1	-13.0	-36.1
LTE4	3425.00	-15.4	H	3.0	36.1	1.0	-50.5	-13.0	-37.5
	5137.50	-16.4	H	3.0	35.4	1.0	-50.8	-13.0	-37.8
5MHz	6850.00	-13.8	H	3.0	35.7	1.0	-48.5	-13.0	-35.5
Mid Ch, 1732.5									
QPSK	3465.00	-16.7	V	3.0	36.0	1.0	-51.7	-13.0	-38.7
	5197.50	-13.1	V	3.0	35.4	1.0	-47.6	-13.0	-34.6
	6930.00	-15.1	V	3.0	35.7	1.0	-49.8	-13.0	-36.8
	3465.00	-19.9	H	3.0	36.0	1.0	-55.0	-13.0	-42.0
	5197.50	-13.9	H	3.0	35.4	1.0	-48.3	-13.0	-35.3
	6930.00	-14.5	H	3.0	35.7	1.0	-49.2	-13.0	-36.2
High Ch, 1752.5									
	3505.00	-16.3	V	3.0	36.0	1.0	-51.3	-13.0	-38.3
	5257.50	-10.3	V	3.0	35.4	1.0	-44.7	-13.0	-31.7
	7010.00	-14.6	V	3.0	35.7	1.0	-49.3	-13.0	-36.3
	3505.00	-19.0	H	3.0	36.0	1.0	-54.0	-13.0	-41.0
	5257.50	-12.4	H	3.0	35.4	1.0	-46.8	-13.0	-33.8
	7010.00	-14.2	H	3.0	35.7	1.0	-48.9	-13.0	-35.9

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20402								
Date:		3/30/2015								
Test Engineer:		J. Hsu								
Configuration:		EUT w/ AC Adapter + Headset								
Location:		Chamber G								
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	
Low Ch, 1711.5										
Band	3423.00	-17.5	V	3.0	36.1	1.0	-52.5	-13.0	-39.5	
	5134.50	-16.1	V	3.0	35.4	1.0	-50.6	-13.0	-37.6	
	6846.00	-16.5	V	3.0	35.7	1.0	-51.2	-13.0	-38.2	
LTE4	3423.00	-17.5	H	3.0	36.1	1.0	-52.5	-13.0	-39.5	
	5134.50	-15.7	H	3.0	35.4	1.0	-50.2	-13.0	-37.2	
	6846.00	-15.0	H	3.0	35.7	1.0	-49.6	-13.0	-36.6	
3MHz	Mid Ch, 1732.5									
	3465.00	-19.9	V	3.0	36.0	1.0	-54.9	-13.0	-41.9	
	5197.50	-13.1	V	3.0	35.4	1.0	-47.5	-13.0	-34.5	
16QAM	6930.00	-16.6	V	3.0	35.7	1.0	-51.3	-13.0	-38.3	
	3465.00	-20.1	H	3.0	36.0	1.0	-55.2	-13.0	-42.2	
	5197.50	-16.0	H	3.0	35.4	1.0	-50.4	-13.0	-37.4	
	6930.00	-15.3	H	3.0	35.7	1.0	-50.0	-13.0	-37.0	
	High Ch, 1753.5									
	3507.00	-16.2	V	3.0	36.0	1.0	-51.2	-13.0	-38.2	
5260.50	-11.1	V	3.0	35.4	1.0	-45.5	-13.0	-32.5		
7014.00	-17.3	V	3.0	35.7	1.0	-52.0	-13.0	-39.0		
3507.00	-15.7	H	3.0	36.0	1.0	-50.7	-13.0	-37.7		
5260.50	-10.8	H	3.0	35.4	1.0	-45.3	-13.0	-32.3		
7014.00	-15.1	H	3.0	35.7	1.0	-49.8	-13.0	-36.8		

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20402								
Date:		3/30/2015								
Test Engineer:		J. Hsu								
Configuration:		EUT w/ AC Adapter + Headset								
Location:		Chamber G								
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
	Low Ch, 1711.5									
Band	3423.00	-17.7	V	3.0	36.1	1.0	-52.8	-13.0	-39.8	
	5134.50	-16.4	V	3.0	35.4	1.0	-50.8	-13.0	-37.8	
	6846.00	-16.7	V	3.0	35.7	1.0	-51.4	-13.0	-38.4	
LTE4	3423.00	-17.7	H	3.0	36.1	1.0	-52.7	-13.0	-39.7	
	5134.50	-16.0	H	3.0	35.4	1.0	-50.4	-13.0	-37.4	
3MHz	6846.00	-15.2	H	3.0	35.7	1.0	-49.9	-13.0	-36.9	
	Mid Ch, 1732.5									
QPSK	3465.00	-20.1	V	3.0	36.0	1.0	-55.1	-13.0	-42.1	
	5197.50	-13.3	V	3.0	35.4	1.0	-47.7	-13.0	-34.7	
	6930.00	-16.8	V	3.0	35.7	1.0	-51.5	-13.0	-38.5	
	3465.00	-19.9	H	3.0	36.0	1.0	-54.9	-13.0	-41.9	
	5197.50	-16.6	H	3.0	35.4	1.0	-51.0	-13.0	-38.0	
	6930.00	-15.3	H	3.0	35.7	1.0	-50.0	-13.0	-37.0	
	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	-45.8	-13.0	-32.8	
	7014.00	-17.5	V	3.0	35.7	1.0	-52.2	-13.0	-39.2	
	3507.00	-15.9	H	3.0	36.0	1.0	-50.9	-13.0	-37.9	
	5260.50	-11.0	H	3.0	35.4	1.0	-45.5	-13.0	-32.5	
	7014.00	-15.4	H	3.0	35.7	1.0	-50.1	-13.0	-37.1	

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
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
Low Ch, 1710.7									
Band LTE4 1.4MHz	3421.40	-12.5	V	3.0	36.1	1.0	-47.6	-13.0	-34.6
	5132.10	-19.2	V	3.0	35.4	1.0	-53.6	-13.0	-40.6
	6842.80	-18.9	V	3.0	35.7	1.0	-53.5	-13.0	-40.5
	3421.40	-8.3	H	3.0	36.1	1.0	-43.4	-13.0	-30.4
	5132.10	-16.0	H	3.0	35.4	1.0	-50.5	-13.0	-37.5
	6842.80	-16.0	H	3.0	35.7	1.0	-50.7	-13.0	-37.7
Mid Ch, 1732.5									
16QAM	3465.00	-18.0	V	3.0	36.0	1.0	-53.0	-13.0	-40.0
	5197.50	-16.3	V	3.0	35.4	1.0	-50.7	-13.0	-37.7
	6930.00	-17.2	V	3.0	35.7	1.0	-51.9	-13.0	-38.9
	3465.00	-14.1	H	3.0	36.0	1.0	-49.1	-13.0	-36.1
	5197.50	-14.4	H	3.0	35.4	1.0	-48.8	-13.0	-35.8
	6930.00	-15.7	H	3.0	35.7	1.0	-50.3	-13.0	-37.3
High Ch, 1754.3									
	3508.60	-14.4	V	3.0	36.0	1.0	-49.4	-13.0	-36.4
	5262.90	-17.3	V	3.0	35.4	1.0	-51.8	-13.0	-38.8
	7017.20	-16.7	V	3.0	35.7	1.0	-51.3	-13.0	-38.3
	3508.60	-10.5	H	3.0	36.0	1.0	-45.5	-13.0	-32.5
	5262.90	-14.7	H	3.0	35.4	1.0	-49.2	-13.0	-36.2
	7017.20	-15.4	H	3.0	35.7	1.0	-50.1	-13.0	-37.1

UL Verification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_QPSK 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
Low Ch, 1710.7									
Band	3421.40	-10.5	V	3.0	36.1	1.0	-45.6	-13.0	-32.6
	5132.10	-18.6	V	3.0	35.4	1.0	-53.0	-13.0	-40.0
	6842.80	-17.1	V	3.0	35.7	1.0	-51.8	-13.0	-38.8
LTE4	3421.40	-7.3	H	3.0	36.1	1.0	-42.4	-13.0	-29.4
	5132.10	-15.9	H	3.0	35.4	1.0	-50.3	-13.0	-37.3
1.4MHz	6842.80	-15.0	H	3.0	35.7	1.0	-49.6	-13.0	-36.6
Mid Ch, 1732.5									
	3465.00	-16.7	V	3.0	36.0	1.0	-51.7	-13.0	-38.7
QPSK	5197.50	-16.7	V	3.0	35.4	1.0	-51.1	-13.0	-38.1
	6930.00	-16.8	V	3.0	35.7	1.0	-51.4	-13.0	-38.4
	3465.00	-14.0	H	3.0	36.0	1.0	-49.0	-13.0	-36.0
	5197.50	-14.3	H	3.0	35.4	1.0	-48.8	-13.0	-35.8
	6930.00	-15.5	H	3.0	35.7	1.0	-50.2	-13.0	-37.2
High Ch, 1754.3									
	3508.60	-12.8	V	3.0	36.0	1.0	-47.8	-13.0	-34.8
	5262.90	-16.3	V	3.0	35.4	1.0	-50.7	-13.0	-37.7
	7017.20	-16.7	V	3.0	35.7	1.0	-51.4	-13.0	-38.4
	3508.60	-10.3	H	3.0	36.0	1.0	-45.3	-13.0	-32.3
	5262.90	-13.8	H	3.0	35.4	1.0	-48.2	-13.0	-35.2
	7017.20	-15.3	H	3.0	35.7	1.0	-50.0	-13.0	-37.0

UL Verification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 2 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
Band	3720.00	-20.9	V	3.0	35.8	1.0	-55.8	-13.0	-42.8
	5580.00	-18.0	V	3.0	35.5	1.0	-52.4	-13.0	-39.4
	7440.00	-16.9	V	3.0	35.7	1.0	-51.7	-13.0	-38.7
LTE2	3720.00	-20.8	H	3.0	35.8	1.0	-55.7	-13.0	-42.7
	5580.00	-17.5	H	3.0	35.5	1.0	-52.0	-13.0	-39.0
20MHz	7440.00	-15.4	H	3.0	35.7	1.0	-50.2	-13.0	-37.2
Mid Ch, 1880									
16QAM	3760.00	-19.4	V	3.0	35.8	1.0	-54.2	-13.0	-41.2
	5640.00	-17.7	V	3.0	35.5	1.0	-52.2	-13.0	-39.2
	7520.00	-15.7	V	3.0	35.7	1.0	-50.4	-13.0	-37.4
	3760.00	-20.4	H	3.0	35.8	1.0	-55.2	-13.0	-42.2
	5640.00	-17.4	H	3.0	35.5	1.0	-51.9	-13.0	-38.9
	7520.00	-15.1	H	3.0	35.7	1.0	-49.9	-13.0	-36.9
High Ch, 1900									
	3800.00	-19.1	V	3.0	35.8	1.0	-53.8	-13.0	-40.8
	5700.00	-17.7	V	3.0	35.5	1.0	-52.2	-13.0	-39.2
	7600.00	-16.7	V	3.0	35.8	1.0	-51.5	-13.0	-38.5
	3800.00	-18.8	H	3.0	35.8	1.0	-53.6	-13.0	-40.6
	5700.00	-17.8	H	3.0	35.5	1.0	-52.3	-13.0	-39.3
	7600.00	-15.7	H	3.0	35.8	1.0	-50.4	-13.0	-37.4

UL Verification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 2 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
Band	3720.00	-20.8	V	3.0	35.8	1.0	-55.7	-13.0	-42.7
	5580.00	-18.2	V	3.0	35.5	1.0	-52.7	-13.0	-39.7
	7440.00	-17.8	V	3.0	35.7	1.0	-52.6	-13.0	-39.6
LTE2	3720.00	-20.5	H	3.0	35.8	1.0	-55.4	-13.0	-42.4
	5580.00	-17.3	H	3.0	35.5	1.0	-51.7	-13.0	-38.7
20MHz	7440.00	-15.3	H	3.0	35.7	1.0	-50.0	-13.0	-37.0
Mid Ch, 1880									
QPSK	3760.00	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3
	5640.00	-18.2	V	3.0	35.5	1.0	-52.7	-13.0	-39.7
	7520.00	-17.7	V	3.0	35.7	1.0	-52.5	-13.0	-39.5
	3760.00	-20.2	H	3.0	35.8	1.0	-55.0	-13.0	-42.0
	5640.00	-17.2	H	3.0	35.5	1.0	-51.7	-13.0	-38.7
	7520.00	-15.2	H	3.0	35.7	1.0	-49.9	-13.0	-36.9
High Ch, 1900									
	3800.00	-18.9	V	3.0	35.8	1.0	-53.7	-13.0	-40.7
	5700.00	-18.5	V	3.0	35.5	1.0	-53.0	-13.0	-40.0
	7600.00	-16.8	V	3.0	35.8	1.0	-51.5	-13.0	-38.5
	3800.00	-18.7	H	3.0	35.8	1.0	-53.5	-13.0	-40.5
	5700.00	-17.6	H	3.0	35.5	1.0	-52.1	-13.0	-39.1
	7600.00	-15.5	H	3.0	35.8	1.0	-50.2	-13.0	-37.2

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 2 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1857.5									
Band	3715.00	-20.9	V	3.0	35.8	1.0	-55.7	-13.0	-42.7
	5572.50	-18.3	V	3.0	35.5	1.0	-52.7	-13.0	-39.7
	7430.00	-16.2	V	3.0	35.7	1.0	-50.9	-13.0	-37.9
LTE2	3715.00	-20.5	H	3.0	35.8	1.0	-55.3	-13.0	-42.3
	5572.50	-17.3	H	3.0	35.5	1.0	-51.7	-13.0	-38.7
15MHz	7430.00	-14.8	H	3.0	35.7	1.0	-49.6	-13.0	-36.6
Mid Ch, 1880									
16QAM	3760.00	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3
	5640.00	-17.2	V	3.0	35.5	1.0	-51.7	-13.0	-38.7
	7520.00	-16.0	V	3.0	35.7	1.0	-50.7	-13.0	-37.7
	3760.00	-20.0	H	3.0	35.8	1.0	-54.8	-13.0	-41.8
	5640.00	-16.1	H	3.0	35.5	1.0	-50.6	-13.0	-37.6
	7520.00	-14.2	H	3.0	35.7	1.0	-49.0	-13.0	-36.0
High Ch, 1902.5									
	3805.00	-18.7	V	3.0	35.8	1.0	-53.5	-13.0	-40.5
	5707.50	-17.5	V	3.0	35.5	1.0	-52.0	-13.0	-39.0
	7610.00	-16.4	V	3.0	35.8	1.0	-51.2	-13.0	-38.2
	3805.00	-18.0	H	3.0	35.8	1.0	-52.8	-13.0	-39.8
	5707.50	-16.3	H	3.0	35.5	1.0	-50.8	-13.0	-37.8
	7610.00	-14.8	H	3.0	35.8	1.0	-49.6	-13.0	-36.6

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
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
Low Ch, 1857.5									
Band	3715.00	-20.1	V	3.0	35.8	1.0	-55.0	-13.0	-42.0
	5572.50	-17.3	V	3.0	35.5	1.0	-51.7	-13.0	-38.7
	7430.00	-17.0	V	3.0	35.7	1.0	-51.7	-13.0	-38.7
LTE2	3715.00	-19.8	H	3.0	35.8	1.0	-54.6	-13.0	-41.6
	5572.50	-16.1	H	3.0	35.5	1.0	-50.6	-13.0	-37.6
15MHz	7430.00	-15.5	H	3.0	35.7	1.0	-50.3	-13.0	-37.3
Mid Ch, 1880									
QPSK	3760.00	-20.4	V	3.0	35.8	1.0	-55.3	-13.0	-42.3
	5640.00	-17.0	V	3.0	35.5	1.0	-51.5	-13.0	-38.5
	7520.00	-15.9	V	3.0	35.7	1.0	-50.7	-13.0	-37.7
	3760.00	-20.1	H	3.0	35.8	1.0	-54.9	-13.0	-41.9
	5640.00	-16.6	H	3.0	35.5	1.0	-51.1	-13.0	-38.1
	7520.00	-15.5	H	3.0	35.7	1.0	-50.2	-13.0	-37.2
High Ch, 1902.5									
	3805.00	-19.7	V	3.0	35.8	1.0	-54.5	-13.0	-41.5
	5707.50	-17.6	V	3.0	35.5	1.0	-52.1	-13.0	-39.1
	7610.00	-15.8	V	3.0	35.8	1.0	-50.5	-13.0	-37.5
	3805.00	-18.8	H	3.0	35.8	1.0	-53.6	-13.0	-40.6
	5707.50	-16.5	H	3.0	35.5	1.0	-51.0	-13.0	-38.0
	7610.00	-14.6	H	3.0	35.8	1.0	-49.3	-13.0	-36.3

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 2 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1855									
Band	3710.00	-21.6	V	3.0	35.9	1.0	-56.5	-13.0	-43.5
	5565.00	-19.3	V	3.0	35.5	1.0	-53.7	-13.0	-40.7
	7420.00	-17.0	V	3.0	35.7	1.0	-51.8	-13.0	-38.8
LTE2	3710.00	-21.1	H	3.0	35.9	1.0	-55.9	-13.0	-42.9
	5565.00	-18.5	H	3.0	35.5	1.0	-53.0	-13.0	-40.0
10MHz	7420.00	-15.6	H	3.0	35.7	1.0	-50.4	-13.0	-37.4
Mid Ch, 1880									
16QAM	3760.00	-21.1	V	3.0	35.8	1.0	-55.9	-13.0	-42.9
	5640.00	-18.4	V	3.0	35.5	1.0	-52.9	-13.0	-39.9
	7520.00	-15.8	V	3.0	35.7	1.0	-50.5	-13.0	-37.5
	3760.00	-20.4	H	3.0	35.8	1.0	-55.2	-13.0	-42.2
	5640.00	-17.3	H	3.0	35.5	1.0	-51.8	-13.0	-38.8
	7520.00	-14.1	H	3.0	35.7	1.0	-48.9	-13.0	-35.9
High Ch, 1905									
	3810.00	-20.4	V	3.0	35.8	1.0	-55.2	-13.0	-42.2
	5715.00	-18.5	V	3.0	35.5	1.0	-53.0	-13.0	-40.0
	7620.00	-16.4	V	3.0	35.8	1.0	-51.2	-13.0	-38.2
	3810.00	-20.0	H	3.0	35.8	1.0	-54.8	-13.0	-41.8
	5715.00	-17.3	H	3.0	35.5	1.0	-51.8	-13.0	-38.8
	7620.00	-15.0	H	3.0	35.8	1.0	-49.7	-13.0	-36.7

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 2 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1855									
Band	3710.00	-21.0	V	3.0	35.9	1.0	-55.8	-13.0	-42.8
	5565.00	-18.9	V	3.0	35.5	1.0	-53.4	-13.0	-40.4
	7420.00	-17.0	V	3.0	35.7	1.0	-51.8	-13.0	-38.8
LTE2	3710.00	-20.6	H	3.0	35.9	1.0	-55.4	-13.0	-42.4
	5565.00	-18.1	H	3.0	35.5	1.0	-52.5	-13.0	-39.5
10MHz	7420.00	-15.3	H	3.0	35.7	1.0	-50.0	-13.0	-37.0
Mid Ch, 1880									
QPSK	3760.00	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3
	5640.00	-17.9	V	3.0	35.5	1.0	-52.4	-13.0	-39.4
	7520.00	-16.1	V	3.0	35.7	1.0	-50.9	-13.0	-37.9
	3760.00	-20.0	H	3.0	35.8	1.0	-54.8	-13.0	-41.8
	5640.00	-17.2	H	3.0	35.5	1.0	-51.6	-13.0	-38.6
	7520.00	-15.1	H	3.0	35.7	1.0	-49.8	-13.0	-36.8
High Ch, 1905									
	3810.00	-20.7	V	3.0	35.8	1.0	-55.5	-13.0	-42.5
	5715.00	-18.5	V	3.0	35.5	1.0	-53.0	-13.0	-40.0
	7620.00	-15.9	V	3.0	35.8	1.0	-50.6	-13.0	-37.6
	3810.00	-19.8	H	3.0	35.8	1.0	-54.5	-13.0	-41.5
	5715.00	-17.0	H	3.0	35.5	1.0	-51.5	-13.0	-38.5
	7620.00	-14.4	H	3.0	35.8	1.0	-49.1	-13.0	-36.1

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement											
Company:		LG Electronics									
Project #:		15I20402									
Date:		3/30/2015									
Test Engineer:		J. Hsu									
Configuration:		EUT w/ AC Adapter + Headset									
Location:		Chamber G									
Mode:		LTE_16QAM Band 2 Harmonics, 5MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band LTE2 5MHz 16QAM	Low Ch, 1852.5										
		3705.00	-20.6	V	3.0	35.9	1.0	-55.4	-13.0	-42.4	
		5557.50	-18.0	V	3.0	35.5	1.0	-52.5	-13.0	-39.5	
		7410.00	-15.6	V	3.0	35.7	1.0	-50.3	-13.0	-37.3	
		3705.00	-20.6	H	3.0	35.9	1.0	-55.4	-13.0	-42.4	
		5557.50	-17.3	H	3.0	35.5	1.0	-51.8	-13.0	-38.8	
		7410.00	-14.1	H	3.0	35.7	1.0	-48.8	-13.0	-35.8	
		Mid Ch, 1880									
		3760.00	-20.3	V	3.0	35.8	1.0	-55.1	-13.0	-42.1	
		5640.00	-17.9	V	3.0	35.5	1.0	-52.4	-13.0	-39.4	
		7520.00	-16.7	V	3.0	35.7	1.0	-51.5	-13.0	-38.5	
		3760.00	-20.2	H	3.0	35.8	1.0	-55.0	-13.0	-42.0	
		5640.00	-16.9	H	3.0	35.5	1.0	-51.3	-13.0	-38.3	
		7520.00	-15.0	H	3.0	35.7	1.0	-49.7	-13.0	-36.7	
		High Ch, 1907.5									
		3815.00	-20.1	V	3.0	35.8	1.0	-54.8	-13.0	-41.8	
		5722.50	-17.7	V	3.0	35.5	1.0	-52.2	-13.0	-39.2	
		7630.00	-16.2	V	3.0	35.8	1.0	-51.0	-13.0	-38.0	
	3815.00	-19.7	H	3.0	35.8	1.0	-54.4	-13.0	-41.4		
	5722.50	-16.2	H	3.0	35.5	1.0	-50.7	-13.0	-37.7		
	7630.00	-13.8	H	3.0	35.8	1.0	-48.5	-13.0	-35.5		

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement											
Company:		LG Electronics									
Project #:		15I20402									
Date:		3/30/2015									
Test Engineer:		J. Hsu									
Configuration:		EUT w/ AC Adapter + Headset									
Location:		Chamber G									
Mode:		LTE_QPSK Band 2 Harmonics, 5MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band	Low Ch, 1852.5										
		3705.00	-21.4	V	3.0	35.9	1.0	-56.3	-13.0	-43.3	
		5557.50	-18.0	V	3.0	35.5	1.0	-52.5	-13.0	-39.5	
		7410.00	-16.6	V	3.0	35.7	1.0	-51.4	-13.0	-38.4	
	LTE2		3705.00	-21.0	H	3.0	35.9	1.0	-55.9	-13.0	-42.9
			5557.50	-17.0	H	3.0	35.5	1.0	-51.5	-13.0	-38.5
			7410.00	-15.1	H	3.0	35.7	1.0	-49.8	-13.0	-36.8
	5MHz	Mid Ch, 1880									
			3760.00	-20.6	V	3.0	35.8	1.0	-55.4	-13.0	-42.4
		5640.00	-18.2	V	3.0	35.5	1.0	-52.7	-13.0	-39.7	
		7520.00	-16.2	V	3.0	35.7	1.0	-50.9	-13.0	-37.9	
		3760.00	-19.9	H	3.0	35.8	1.0	-54.7	-13.0	-41.7	
		5640.00	-17.0	H	3.0	35.5	1.0	-51.5	-13.0	-38.5	
		7520.00	-15.2	H	3.0	35.7	1.0	-49.9	-13.0	-36.9	
QPSK		High Ch, 1907.5									
			3815.00	-20.8	V	3.0	35.8	1.0	-55.5	-13.0	-42.5
		5722.50	-17.8	V	3.0	35.5	1.0	-52.3	-13.0	-39.3	
		7630.00	-15.2	V	3.0	35.8	1.0	-49.9	-13.0	-36.9	
		3815.00	-19.7	H	3.0	35.8	1.0	-54.5	-13.0	-41.5	
		5722.50	-16.2	H	3.0	35.5	1.0	-50.7	-13.0	-37.7	
	7630.00	-13.4	H	3.0	35.8	1.0	-48.2	-13.0	-35.2		

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 2 Harmonics, 3MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.5									
Band	3703.00	-20.9	V	3.0	35.9	1.0	-55.8	-13.0	-42.8
	5554.50	-17.7	V	3.0	35.5	1.0	-52.2	-13.0	-39.2
	7406.00	-16.1	V	3.0	35.7	1.0	-50.9	-13.0	-37.9
LTE2	3703.00	-20.9	H	3.0	35.9	1.0	-55.8	-13.0	-42.8
	5554.50	-16.9	H	3.0	35.5	1.0	-51.4	-13.0	-38.4
3MHz	7406.00	-14.9	H	3.0	35.7	1.0	-49.6	-13.0	-36.6
Mid Ch, 1880									
16QAM	3760.00	-20.7	V	3.0	35.8	1.0	-55.5	-13.0	-42.5
	5640.00	-18.0	V	3.0	35.5	1.0	-52.5	-13.0	-39.5
	7520.00	-15.6	V	3.0	35.7	1.0	-50.3	-13.0	-37.3
	3760.00	-20.4	H	3.0	35.8	1.0	-55.3	-13.0	-42.3
	5640.00	-17.4	H	3.0	35.5	1.0	-51.9	-13.0	-38.9
	7520.00	-14.1	H	3.0	35.7	1.0	-48.9	-13.0	-35.9
High Ch, 1908.5									
	3817.00	-20.1	V	3.0	35.8	1.0	-54.9	-13.0	-41.9
	5725.50	-17.1	V	3.0	35.5	1.0	-51.6	-13.0	-38.6
	7634.00	-15.7	V	3.0	35.8	1.0	-50.5	-13.0	-37.5
	3817.00	-20.1	H	3.0	35.8	1.0	-54.9	-13.0	-41.9
	5725.50	-17.1	H	3.0	35.5	1.0	-51.6	-13.0	-38.6
	7634.00	-14.2	H	3.0	35.8	1.0	-48.9	-13.0	-35.9

UL Verification Services, Inc Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
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
Low Ch, 1851.5									
Band	3703.00	-21.5	V	3.0	35.9	1.0	-56.4	-13.0	-43.4
	5554.50	-18.0	V	3.0	35.5	1.0	-52.4	-13.0	-39.4
	7406.00	-16.0	V	3.0	35.7	1.0	-50.8	-13.0	-37.8
LTE2	3703.00	-21.4	H	3.0	35.9	1.0	-56.3	-13.0	-43.3
	5554.50	-17.1	H	3.0	35.5	1.0	-51.6	-13.0	-38.6
3MHz	7406.00	-14.4	H	3.0	35.7	1.0	-49.1	-13.0	-36.1
Mid Ch, 1880									
QPSK	3760.00	-20.4	V	3.0	35.8	1.0	-55.2	-13.0	-42.2
	5640.00	-18.2	V	3.0	35.5	1.0	-52.6	-13.0	-39.6
	7520.00	-15.8	V	3.0	35.7	1.0	-50.6	-13.0	-37.6
	3760.00	-20.2	H	3.0	35.8	1.0	-55.0	-13.0	-42.0
	5640.00	-17.6	H	3.0	35.5	1.0	-52.1	-13.0	-39.1
	7520.00	-14.7	H	3.0	35.7	1.0	-49.5	-13.0	-36.5
High Ch, 1908.5									
	3817.00	-20.6	V	3.0	35.8	1.0	-55.3	-13.0	-42.3
	5725.50	-17.4	V	3.0	35.5	1.0	-51.9	-13.0	-38.9
	7634.00	-15.5	V	3.0	35.8	1.0	-50.2	-13.0	-37.2
	3817.00	-20.3	H	3.0	35.8	1.0	-55.1	-13.0	-42.1
	5725.50	-17.0	H	3.0	35.5	1.0	-51.5	-13.0	-38.5
	7634.00	-14.9	H	3.0	35.8	1.0	-49.6	-13.0	-36.6

UL Verification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
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									
Band	3701.40	-20.9	V	3.0	35.9	1.0	-55.8	-13.0	-42.8
	5552.10	-19.2	V	3.0	35.5	1.0	-53.6	-13.0	-40.6
	7402.80	-16.7	V	3.0	35.7	1.0	-51.4	-13.0	-38.4
LTE2	3701.40	-20.6	H	3.0	35.9	1.0	-55.4	-13.0	-42.4
	5552.10	-16.6	H	3.0	35.5	1.0	-51.1	-13.0	-38.1
1.4MHz	7402.80	-15.2	H	3.0	35.7	1.0	-49.9	-13.0	-36.9
Mid Ch, 1880									
16QAM	3760.00	-21.0	V	3.0	35.8	1.0	-55.8	-13.0	-42.8
	5640.00	-18.8	V	3.0	35.5	1.0	-53.3	-13.0	-40.3
	7520.00	-16.5	V	3.0	35.7	1.0	-51.2	-13.0	-38.2
	3760.00	-20.7	H	3.0	35.8	1.0	-55.6	-13.0	-42.6
	5640.00	-17.4	H	3.0	35.5	1.0	-51.9	-13.0	-38.9
	7520.00	-15.2	H	3.0	35.7	1.0	-49.9	-13.0	-36.9
High Ch, 1909.3									
	3818.60	-19.8	V	3.0	35.8	1.0	-54.6	-13.0	-41.6
	5727.90	-18.0	V	3.0	35.5	1.0	-52.5	-13.0	-39.5
	7637.20	-16.0	V	3.0	35.8	1.0	-50.8	-13.0	-37.8
	3818.60	-19.1	H	3.0	35.8	1.0	-53.9	-13.0	-40.9
	5727.90	-16.8	H	3.0	35.5	1.0	-51.3	-13.0	-38.3
	7637.20	-14.7	H	3.0	35.8	1.0	-49.4	-13.0	-36.4

UL Verification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20402							
Date:		3/30/2015							
Test Engineer:		J. Hsu							
Configuration:		EUT w/ AC Adapter + Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 2 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.7									
Band	3701.40	-21.7	V	3.0	35.9	1.0	-56.6	-13.0	-43.6
	5552.10	-18.0	V	3.0	35.5	1.0	-52.5	-13.0	-39.5
	7402.80	-15.9	V	3.0	35.7	1.0	-50.6	-13.0	-37.6
LTE2	3701.40	-21.5	H	3.0	35.9	1.0	-56.3	-13.0	-43.3
	5552.10	-17.1	H	3.0	35.5	1.0	-51.6	-13.0	-38.6
1.4MHz	7402.80	-14.4	H	3.0	35.7	1.0	-49.2	-13.0	-36.2
Mid Ch, 1880									
QPSK	3760.00	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3
	5640.00	-18.0	V	3.0	35.5	1.0	-52.5	-13.0	-39.5
	7520.00	-16.6	V	3.0	35.7	1.0	-51.3	-13.0	-38.3
	3760.00	-19.0	H	3.0	35.8	1.0	-53.9	-13.0	-40.9
	5640.00	-16.8	H	3.0	35.5	1.0	-51.2	-13.0	-38.2
	7520.00	-14.7	H	3.0	35.7	1.0	-49.4	-13.0	-36.4
High Ch, 1909.3									
	3818.60	-20.2	V	3.0	35.8	1.0	-54.9	-13.0	-41.9
	5727.90	-17.2	V	3.0	35.5	1.0	-51.7	-13.0	-38.7
	7637.20	-16.1	V	3.0	35.8	1.0	-50.9	-13.0	-37.9
	3818.60	-20.0	H	3.0	35.8	1.0	-54.7	-13.0	-41.7
	5727.90	-16.7	H	3.0	35.5	1.0	-51.2	-13.0	-38.2
	7637.20	-13.7	H	3.0	35.8	1.0	-48.4	-13.0	-35.4