

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																																																																																																
	Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse																																																																																																		
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	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																										
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Mid Ch																																																																																																			
2535.00	4.79	V	0.9	9.5	13.41	33.0	-19.6																																																																																												
2535.00	14.39	H	0.9	9.5	23.01	33.0	-10.0																																																																																												
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Band LTE7 10MHz 16QAM	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, 10MHz, 16QAM						
	Test Equipment:								
	Receiving: Horn T119, and Chamber C SMA Cables								
	Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	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		
Rev. 3.17.11									
Note: For Band 4 EIRP limit is 30dBm									

Band LTE7 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C								
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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	4.91	V	0.9	9.5	13.53	33.0	-19.5	
	2505.00	13.62	H	0.9	9.5	22.24	33.0	-10.8	
	Mid Ch								
	2535.00	4.64	V	0.9	9.5	13.26	33.0	-19.7	
	2535.00	13.65	H	0.9	9.5	22.27	33.0	-10.7	
	High Ch								
	2565.00	4.85	V	0.9	9.5	13.50	33.0	-19.5	
	2565.00	13.96	H	0.9	9.5	22.61	33.0	-10.4	
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band LTE7 5MHz 16QAM	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, 5MHz, 16QAM Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	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	
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band LTE7 5MHz 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, 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	
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band

LTE5

10MHz

16QAM

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

LG

15I20402

04/04/15

R.Alegre

EUT only

Chamber B

LTE_16QAM Band 5 Fundamentals, 10MHz 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								
829.00	12.79	V	0.9	0.0	11.89	38.5	-26.6	
829.00	21.17	H	0.9	0.0	20.27	38.5	-18.2	
Mid Ch								
836.50	12.87	V	0.9	0.0	11.97	38.5	-26.5	
836.50	21.80	H	0.9	0.0	20.90	38.5	-17.6	
High Ch								
844.00	13.17	V	0.9	0.0	12.27	38.5	-26.2	
844.00	21.41	H	0.9	0.0	20.51	38.5	-18.0	

Band LTE5 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																
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	Test Engineer:		R.Alegre																																																																																														
	Configuration:		EUT only																																																																																														
	Location:		Chamber B																																																																																														
	Mode:		LTE_QPSK Band 5 Fundamentals, 10MHz Bandwidth																																																																																														
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Band

LTE5

5MHz

QPSK

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

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

LTE5

3MHz

16QAM

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

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	12.66	V	0.9	0.0	11.76	38.5	-26.7	
825.50	21.47	H	0.9	0.0	20.57	38.5	-17.9	
Mid Ch								
836.50	12.76	V	0.9	0.0	11.86	38.5	-26.6	
836.50	21.10	H	0.9	0.0	20.20	38.5	-18.3	
High Ch								
847.50	13.04	V	0.9	0.0	12.14	38.5	-26.4	
847.50	21.35	H	0.9	0.0	20.45	38.5	-18.1	

Band

LTE5

3MHz

QPSK

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

LG

15I20402

04/04/15

R.Alegre

EUT only

Chamber B

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 Date: 04/04/15 Test Engineer: R.Alegre Configuration: EUT only Location: Chamber B Mode: LTE_16QAM 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	12.77	V	0.9	0.0	11.87	38.5	-26.6	
	824.70	21.23	H	0.9	0.0	20.33	38.5	-18.2	
	Mid Ch								
	836.50	12.83	V	0.9	0.0	11.93	38.5	-26.6	
	836.50	21.02	H	0.9	0.0	20.12	38.5	-18.4	
High Ch									
848.30	13.15	V	0.9	0.0	12.25	38.5	-26.3		
848.30	21.10	H	0.9	0.0	20.20	38.5	-18.3		

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 Configuration: EUT Only Location: Chamber C Mode: LTE_16QAM Band 4 Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1720.00	13.65	V	0.9	8.2	20.99	30.0	-9.0	
	1720.00	19.53	H	0.9	8.2	26.87	30.0	-3.1	
	Mid Ch								
	1732.50	14.04	V	0.9	8.2	21.31	30.0	-8.7	
	1732.50	19.42	H	0.9	8.2	26.69	30.0	-3.3	
	High Ch								
	1745.00	14.17	V	0.9	8.1	21.37	30.0	-8.6	
	1745.00	19.78	H	0.9	8.1	26.98	30.0	-3.0	

Band LTE4 20MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Company: LG Project #: 15I20402 Date: 3/28/2015 Test Engineer: R.Alegre Configuration: EUT Only Location: Chamber C Mode: LTE_QPSK Band 4 Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1720.00	14.54	V	0.9	8.2	21.88	30.0	-8.1	
	1720.00	20.24	H	0.9	8.2	27.58	30.0	-2.4	
	Mid Ch								
	1732.50	14.95	V	0.9	8.2	22.22	30.0	-7.8	
	1732.50	20.35	H	0.9	8.2	27.62	30.0	-2.4	
	High Ch								
	1745.00	15.04	V	0.9	8.1	22.24	30.0	-7.8	
	1745.00	20.39	H	0.9	8.1	27.59	30.0	-2.4	

Band

LTE4

15MHz

16QAM

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Test Equipment:

Receiving: Horn T119, and Chamber C SMA Cables

Substitution: Horn T59, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1717.50	13.53	V	0.9	8.2	20.88	30.0	-9.1	
1717.50	19.72	H	0.9	8.2	27.07	30.0	-2.9	
Mid Ch								
1732.50	14.01	V	0.9	8.2	21.28	30.0	-8.7	
1732.50	19.53	H	0.9	8.2	26.80	30.0	-3.2	
High Ch								
1747.50	14.19	V	0.9	8.1	21.38	30.0	-8.6	
1747.50	20.02	H	0.9	8.1	27.21	30.0	-2.8	

Band

LTE4

15MHz

QPSK

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Test Equipment:

Receiving: Horn T119, and Chamber C SMA Cables

Substitution: Horn T59, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1717.50	14.48	V	0.9	8.2	21.83	30.0	-8.2	
1717.50	20.36	H	0.9	8.2	27.71	30.0	-2.3	
Mid Ch								
1732.50	14.92	V	0.9	8.2	22.19	30.0	-7.8	
1732.50	20.46	H	0.9	8.2	27.73	30.0	-2.3	
High Ch								
1747.50	15.06	V	0.9	8.1	22.25	30.0	-7.7	
1747.50	20.47	H	0.9	8.1	27.66	30.0	-2.3	

Band LTE4 10MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Company: LG Project #: 15I20402 Date: 3/28/2015 Test Engineer: R.Alegre Configuration: EUT Only Location: Chamber C Mode: LTE_16QAM Band 4 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1715.00	13.57	V	0.9	8.2	20.84	30.0	-9.2	
	1715.00	19.49	H	0.9	8.2	26.76	30.0	-3.2	
	Mid Ch								
	1732.50	13.92	V	0.9	8.2	21.19	30.0	-8.8	
	1732.50	19.59	H	0.9	8.2	26.86	30.0	-3.1	
	High Ch								
	1750.00	14.16	V	0.9	8.1	21.35	30.0	-8.6	
	1750.00	19.64	H	0.9	8.1	26.83	30.0	-3.2	

Band

LTE4

10MHz

QPSK

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

LG

15I20402

3/28/2015

R.Alegre

EUT Only

Chamber C

LTE_QPSK Band 4 Fundamentals, 10MHz Bandwidth

Test Equipment:

Receiving: Horn T119, and Chamber C SMA Cables

Substitution: Horn T59, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
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	

Band LTE4 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Company: LG Project #: 15I20402 Date: 3/28/2015 Test Engineer: R.Alegre Configuration: EUT Only Location: Chamber C Mode: LTE_16QAM Band 4 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1712.50	13.53	V	0.9	8.2	20.87	30.0	-9.1	
	1712.50	19.69	H	0.9	8.2	27.03	30.0	-3.0	
	Mid Ch								
	1732.50	14.05	V	0.9	8.2	21.32	30.0	-8.7	
	1732.50	19.72	H	0.9	8.2	26.99	30.0	-3.0	
	High Ch								
	1752.50	14.15	V	0.9	8.1	21.35	30.0	-8.7	
	1752.50	19.68	H	0.9	8.1	26.88	30.0	-3.1	

Band

LTE4

5MHz

QPSK

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

LG

15I20402

3/28/2015

R.Alegre

EUT Only

Chamber C

LTE_QPSK Band 4 Fundamentals, 5MHz Bandwidth

Test Equipment:

Receiving: Horn T119, and Chamber C SMA Cables

Substitution: Horn T59, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1712.50	14.43	V	0.9	8.2	21.77	30.0	-8.2	
1712.50	20.34	H	0.9	8.2	27.68	30.0	-2.3	
Mid Ch								
1732.50	14.95	V	0.9	8.2	22.22	30.0	-7.8	
1732.50	20.56	H	0.9	8.2	27.83	30.0	-2.2	
High Ch								
1752.50	14.89	V	0.9	8.1	22.09	30.0	-7.9	
1752.50	20.22	H	0.9	8.1	27.42	30.0	-2.6	

Band

LTE4

3MHz

16QAM

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Test Equipment:

Receiving: Horn T119, and Chamber C SMA Cables

Substitution: Horn T59, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1711.50	13.54	V	0.9	8.2	20.89	30.0	-9.1	
1711.50	19.90	H	0.9	8.2	27.25	30.0	-2.8	
Mid Ch								
1732.50	14.04	V	0.9	8.2	21.31	30.0	-8.7	
1732.50	19.75	H	0.9	8.2	27.02	30.0	-3.0	
High Ch								
1753.50	14.04	V	0.9	8.1	21.23	30.0	-8.8	
1753.50	19.37	H	0.9	8.1	26.56	30.0	-3.4	

Band

LTE4

3MHz

QPSK

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Test Equipment:

Receiving: Horn T119, and Chamber C SMA Cables

Substitution: Horn T59, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1711.50	14.47	V	0.9	8.2	21.82	30.0	-8.2	
1711.50	20.50	H	0.9	8.2	27.85	30.0	-2.2	
Mid Ch								
1732.50	14.97	V	0.9	8.2	22.24	30.0	-7.8	
1732.50	20.52	H	0.9	8.2	27.79	30.0	-2.2	
High Ch								
1753.50	15.05	V	0.9	8.1	22.24	30.0	-7.8	
1753.50	20.04	H	0.9	8.1	27.23	30.0	-2.8	

Band LTE4 1.4MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Company: LG Project #: 15I20402 Date: 3/28/2015 Test Engineer: R.Alegre Configuration: EUT Only Location: Chamber C Mode: LTE_16QAM Band 4 Fundamentals, 1.4MHz Bandwidth Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1710.70	13.65	V	0.9	8.2	20.92	30.0	-9.1	
	1710.70	19.68	H	0.9	8.2	26.95	30.0	-3.0	
	Mid Ch								
	1732.50	14.02	V	0.9	8.2	21.29	30.0	-8.7	
	1732.50	19.71	H	0.9	8.2	26.98	30.0	-3.0	
	High Ch								
	1754.30	14.11	V	0.9	8.1	21.30	30.0	-8.7	
	1754.30	19.17	H	0.9	8.1	26.36	30.0	-3.6	

Band LTE4 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																
	Company: LG																																																																																																
	Project #: 15I20402																																																																																																
	Date: 3/28/2015																																																																																																
	Test Engineer: R.Alegre																																																																																																
	Configuration: EUT Only																																																																																																
	Location: Chamber C																																																																																																
	Mode: LTE_QPSK Band 4 Fundamentals, 1.4MHz Bandwidth																																																																																																
	Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, 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 (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Low Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1710.70</td> <td>14.56</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>21.83</td> <td>30.0</td> <td>-8.2</td> <td></td> </tr> <tr> <td>1710.70</td> <td>20.38</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>27.65</td> <td>30.0</td> <td>-2.3</td> <td></td> </tr> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1732.50</td> <td>15.07</td> <td>V</td> <td>0.9</td> <td>8.2</td> <td>22.34</td> <td>30.0</td> <td>-7.7</td> <td></td> </tr> <tr> <td>1732.50</td> <td>20.60</td> <td>H</td> <td>0.9</td> <td>8.2</td> <td>27.87</td> <td>30.0</td> <td>-2.1</td> <td></td> </tr> <tr> <td>High Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1754.30</td> <td>15.06</td> <td>V</td> <td>0.9</td> <td>8.1</td> <td>22.25</td> <td>30.0</td> <td>-7.7</td> <td></td> </tr> <tr> <td>1754.30</td> <td>20.03</td> <td>H</td> <td>0.9</td> <td>8.1</td> <td>27.22</td> <td>30.0</td> <td>-2.8</td> <td></td> </tr> </tbody> </table>								f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									1710.70	14.56	V	0.9	8.2	21.83	30.0	-8.2		1710.70	20.38	H	0.9	8.2	27.65	30.0	-2.3		Mid Ch									1732.50	15.07	V	0.9	8.2	22.34	30.0	-7.7		1732.50	20.60	H	0.9	8.2	27.87	30.0	-2.1		High Ch									1754.30	15.06	V	0.9	8.1	22.25	30.0	-7.7		1754.30	20.03	H	0.9	8.1	27.22	30.0	-2.8
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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1710.70	14.56	V	0.9	8.2	21.83	30.0	-8.2																																																																																										
1710.70	20.38	H	0.9	8.2	27.65	30.0	-2.3																																																																																										
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1732.50	15.07	V	0.9	8.2	22.34	30.0	-7.7																																																																																										
1732.50	20.60	H	0.9	8.2	27.87	30.0	-2.1																																																																																										
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1754.30	15.06	V	0.9	8.1	22.25	30.0	-7.7																																																																																										
1754.30	20.03	H	0.9	8.1	27.22	30.0	-2.8																																																																																										

Band LTE2 20MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Company: LG Project #: 15I20402 Date: 3/29/2015 Test Engineer: R.Alegre Configuration: EUT Only Location: Chamber C Mode: LTE_16QAM Band 2 Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1860.00	6.41	V	0.9	8.0	13.52	33.0	-19.5	
	1860.00	18.92	H	0.9	8.0	26.03	33.0	-7.0	
	Mid Ch								
	1880.00	5.96	V	0.9	8.0	13.07	33.0	-19.9	
	1880.00	18.36	H	0.9	8.0	25.47	33.0	-7.5	
	High Ch								
	1900.00	6.96	V	0.9	8.0	14.07	33.0	-18.9	
	1900.00	17.17	H	0.9	8.0	24.28	33.0	-8.7	

Band LTE2 20MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I20402																																																																																															
	Date:		3/29/2015																																																																																															
	Test Engineer:		R.Alegre																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_QPSK Band 2 Fundamentals, 20MHz Bandwidth																																																																																															
	Test Equipment:																																																																																																	
	Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse																																																																																																	
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Band LTE2 15MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Company: LG Project #: 15I20402 Date: 3/29/2015 Test Engineer: R.Alegre Configuration: EUT Only Location: Chamber C Mode: LTE_16QAM Band 2 Fundamentals, 15MHz Bandwidth Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1857.50	6.43	V	0.9	8.0	13.54	33.0	-19.5	
	1857.50	18.95	H	0.9	8.0	26.06	33.0	-6.9	
	Mid Ch								
	1880.00	5.98	V	0.9	8.0	13.09	33.0	-19.9	
	1880.00	18.41	H	0.9	8.0	25.52	33.0	-7.5	
	High Ch								
	1902.50	7.24	V	0.9	8.0	14.35	33.0	-18.7	
	1902.50	17.25	H	0.9	8.0	24.36	33.0	-8.6	

Band LTE2 15MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I20402																																																																																															
	Date:		3/29/2015																																																																																															
	Test Engineer:		R.Alegre																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_QPSK Band 2 Fundamentals, 15MHz Bandwidth																																																																																															
	Test Equipment:																																																																																																	
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Band LTE2 10MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Company: LG Project #: 15I20402 Date: 3/29/2015 Test Engineer: R.Alegre Configuration: EUT Only Location: Chamber C Mode: LTE_16QAM Band 2 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1855.00	6.41	V	0.9	8.0	13.52	33.0	-19.5	
	1855.00	18.92	H	0.9	8.0	26.03	33.0	-7.0	
	Mid Ch								
	1880.00	6.01	V	0.9	8.0	13.12	33.0	-19.9	
	1880.00	17.91	H	0.9	8.0	25.02	33.0	-8.0	
	High Ch								
	1905.00	7.28	V	0.9	8.0	14.39	33.0	-18.6	
	1905.00	17.16	H	0.9	8.0	24.27	33.0	-8.7	

Band

LTE2

10MHz

QPSK

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

LG

Project #:

15I20402

Date:

3/29/2015

Test Engineer:

R.Alegre

Configuration:

EUT Only

Location:

Chamber C

Mode:

LTE_QPSK Band 2 Fundamentals, 10MHz Bandwidth

Test Equipment:

Receiving: Horn T119, and Chamber C SMA Cables

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

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1855.00	7.09	V	0.9	8.0	14.20	33.0	-18.8	
1855.00	19.24	H	0.9	8.0	26.35	33.0	-6.7	
Mid Ch								
1880.00	6.65	V	0.9	8.0	13.76	33.0	-19.2	
1880.00	18.52	H	0.9	8.0	25.63	33.0	-7.4	
High Ch								
1905.00	7.86	V	0.9	8.0	14.97	33.0	-18.0	
1905.00	17.82	H	0.9	8.0	24.93	33.0	-8.1	

Band LTE2 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Company: LG Project #: 15I20402 Date: 3/29/2015 Test Engineer: R.Alegre Configuration: EUT Only Location: Chamber C Mode: LTE_16QAM Band 2 Fundamentals, 5MHz Bandwidth Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1852.50	6.42	V	0.9	8.0	13.53	33.0	-19.5	
	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	
	High Ch								
	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	

Band LTE2 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																	
	Company:		LG																																																																																															
	Project #:		15I20402																																																																																															
	Date:		3/29/2015																																																																																															
	Test Engineer:		R.Alegre																																																																																															
	Configuration:		EUT Only																																																																																															
	Location:		Chamber C																																																																																															
	Mode:		LTE_QPSK Band 2 Fundamentals, 5MHz Bandwidth																																																																																															
	Test Equipment:																																																																																																	
	Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, 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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1852.50	19.26	H	0.9	8.0	26.37	33.0	-6.6																																																																																											
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1880.00	6.55	V	0.9	8.0	13.66	33.0	-19.3																																																																																											
1880.00	18.62	H	0.9	8.0	25.73	33.0	-7.3																																																																																											
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1907.50	7.82	V	0.9	8.0	14.93	33.0	-18.1																																																																																											
1907.50	17.64	H	0.9	8.0	24.75	33.0	-8.2																																																																																											

Band

LTE2

3MHz

16QAM

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

LG

15I20402

3/29/2015

R.Alegre

EUT Only

Chamber C

LTE_16QAM Band 2 Fundamentals, 3MHz Bandwidth

Test Equipment:

Receiving: Horn T119, and Chamber C SMA Cables

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

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1851.50	6.37	V	0.9	8.0	13.48	33.0	-19.5	
1851.50	18.93	H	0.9	8.0	26.04	33.0	-7.0	
Mid Ch								
1880.00	6.05	V	0.9	8.0	13.16	33.0	-19.8	
1880.00	17.94	H	0.9	8.0	25.05	33.0	-8.0	
High Ch								
1908.50	7.28	V	0.9	8.0	14.39	33.0	-18.6	
1908.50	17.15	H	0.9	8.0	24.26	33.0	-8.7	

Band LTE2 3MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Company: LG Project #: 15I20402 Date: 3/29/2015 Test Engineer: R.Alegre Configuration: EUT Only Location: Chamber C Mode: LTE_QPSK Band 2 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1851.50	7.24	V	0.9	8.0	14.35	33.0	-18.7	
	1851.50	19.30	H	0.9	8.0	26.41	33.0	-6.6	
	Mid Ch								
	1880.00	6.64	V	0.9	8.0	13.75	33.0	-19.3	
	1880.00	18.37	H	0.9	8.0	25.48	33.0	-7.5	
	High Ch								
	1908.50	7.83	V	0.9	8.0	14.94	33.0	-18.1	
	1908.50	17.75	H	0.9	8.0	24.86	33.0	-8.1	

Band

LTE2

1.4MHz

16QAM

High Frequency Substitution Measurement

UL Verification Services, Inc.

Company:

LG

Project #:

15I20402

Date:

3/29/2015

Test Engineer:

R.Alegre

Configuration:

EUT Only

Location:

Chamber C

Mode:

LTE_16QAM Band 2 Fundamentals, 1.4MHz Bandwidth

Test Equipment:

Receiving: Horn T119, and Chamber C SMA Cables

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

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1850.70	6.28	V	0.9	8.0	13.39	33.0	-19.6	
1850.70	18.91	H	0.9	8.0	26.02	33.0	-7.0	
Mid Ch								
1880.00	6.02	V	0.9	8.0	13.13	33.0	-19.9	
1880.00	17.67	H	0.9	8.0	24.78	33.0	-8.2	
High Ch								
1909.30	7.26	V	0.9	8.0	14.37	33.0	-18.6	
1909.30	17.15	H	0.9	8.0	24.26	33.0	-8.7	

Band LTE2 1.4MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Company: LG Project #: 15I20402 Date: 3/29/2015 Test Engineer: R.Alegre Configuration: EUT Only Location: Chamber C Mode: LTE_QPSK Band 2 Fundamentals, 1.4MHz Bandwidth Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1850.70	7.04	V	0.9	8.0	14.15	33.0	-18.9	
	1850.70	19.28	H	0.9	8.0	26.39	33.0	-6.6	
	Mid Ch								
	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	High Frequency Fundamental Measurement UL Verification Services, Inc. Company: LG Project #: 15I20402 Date: 5/15/2015 Test Engineer: Jude Semana Configuration: EUT + Smart Cover + Charging Dock Mode: CDMA RTT BC1 Test Equipment: Receiving: Horn T711, and Chamber G SMA Cables Substitution: Horn T60, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	1.8513		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																																										
	<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>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>836.52</td> <td>15.40</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>14.50</td> <td>38.5</td> <td>-23.9</td> <td></td> </tr> <tr> <td>836.52</td> <td>22.96</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>22.06</td> <td>38.5</td> <td>-16.4</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	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							
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	22.96	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="9">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="9">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="9">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> Rev. 3.17.11									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		
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848.31		H	0.9	0.0		38.5																																																																																													

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

High Frequency Substitution Measurement UL Verification Services, Inc. Chamber G																																																																																																		
Band LTE7 15MHz QPSK	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:																																																																																																	
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Rev. 3.17.11																																																																																																		
Note: For Band 4 EIRP limit is 30dBm																																																																																																		

High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																		
Band LTE5 10MHz QPSK	Company:		LG																																																																																															
	Project #:		15I20402																																																																																															
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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																																																																																															
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	Test Equipment:																																																																																																	
	Receiving: Horn T711, and Chamber G SMA Cables Substitution: Horn T60, Xft SMA Cable (SN # SERIALNUMBER) Warehouse																																																																																																	
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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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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								
	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		
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

High Frequency Substitution Measurement UL Verification Services, Inc. Chamber G																																																																																																		
Band GSM 850 GPRS	Company:		LG																																																																																															
	Project #:		15I20402																																																																																															
	Date:		05/15/15																																																																																															
	Test Engineer:		Jude Semana																																																																																															
	Configuration:		EUT + Smart Cover + Charging Dock																																																																																															
	Mode:		GPRS850																																																																																															
	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)	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																																																																																																		

11.1.1.3. WCDMA (MID CHANNEL ONLY)

Band 2 REL99	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																		
	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																																																																																																		
	Test Equipment:																																																																																																		
	Receiving: Horn T711, and Chamber C SMA Cables Substitution: Horn T60 Substitution, 4ft SMA Cable Warehouse																																																																																																		
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Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm																																																																																																			

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.								
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		
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
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	
7400.80	-13.1	V	3.0	35.7	1.0	-47.8	-13.0	-34.8	
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	
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 850 MHz Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.2									
1648.40	-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	

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
REL99	2479.20	-21.3	H	3.0	36.4	1.0	-56.7	-13.0	-43.7
	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									
Band BC1	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)
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
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										
Band BCO	Company: LG									
	Project #: 15I20402									
	Date: 04/04/15									
	Test Engineer: R.Alegre									
	Configuration: EUT w/ AC Adapter + HS									
	Mode: EVDO BC0									
	Chamber 5m Chamber B		Pre-amplifier T34 8449B		Filter Filter 1		Limit Part 22			
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 824.7MHz									
	1.649	-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
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	
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	
Mid Ch, 836.52MHz									
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 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									
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	
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	
10030.00	-12.3	H	3.0	36.0	1.0	-47.3	-25.0	-22.3	
Mid Ch, 2535									
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									
Band	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						

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									
Band	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						

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									
Band	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
Mid Ch, 836.5									
10MHz	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									
Band LTE5 10MHz	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
	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
Mid Ch, 836.5									
QPSK	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
	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, 1.4MHz Bandwidth							

UL Verification Services, Inc										
Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Location: Mode:	LG Electronics									
	15I20402									
	3/30/2015									
	J. Hsu									
	EUT w/ AC Adapter + Headset									
	Chamber G									
	LTE_QPSK Band 5 Harmonics, 1.4MHz Bandwidth									
Band LTE5 1.4MHz QPSK	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	4.3	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	
	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	
	3298.80	-20.4	H	3.0	36.2	1.0	-55.5	-13.0	-42.5	
	Mid Ch, 836.5									
	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	
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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									
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	
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	
6880.00	-15.2	H	3.0	35.7	1.0	-49.8	-13.0	-36.8	
Mid Ch, 1732.5									
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, 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
	6870.00	-15.0	H	3.0	35.7	1.0	-49.7	-13.0	-36.7
15MHz	Mid Ch, 1732.5								
	3465.00	-20.4	V	3.0	36.0	1.0	-55.4	-13.0	-42.4
	5197.50	-16.8	V	3.0	35.4	1.0	-51.2	-13.0	-38.2
QPSK	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 LTE4 10MHz	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
	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
	6860.00	-16.4	H	3.0	35.7	1.0	-51.1	-13.0	-38.1
16QAM	Mid Ch, 1732.5								
	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
	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							

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							

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							

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 LTE4 3MHz 16QAM	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
	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
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
	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
Band LTE4 3MHz QPSK	Low Ch, 1711.5									
	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	
	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	
	6846.00	-15.2	H	3.0	35.7	1.0	-49.9	-13.0	-36.9	
	Mid Ch, 1732.5									
	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 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 LTE4 1.4MHz	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
	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
	6842.80	-15.0	H	3.0	35.7	1.0	-49.6	-13.0	-36.6
Mid Ch, 1732.5									
QPSK	3465.00	-16.7	V	3.0	36.0	1.0	-51.7	-13.0	-38.7
	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, 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
	7430.00	-14.8	H	3.0	35.7	1.0	-49.6	-13.0	-36.6
Mid Ch, 1880									
15MHz	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
16QAM	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
	7430.00	-15.5	H	3.0	35.7	1.0	-50.3	-13.0	-37.3
15MHz	Mid Ch, 1880								
	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
QPSK	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 LTE2 10MHz 16QAM	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
	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
	7420.00	-15.6	H	3.0	35.7	1.0	-50.4	-13.0	-37.4
Mid Ch, 1880									
	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									
Band	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						

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
Low Ch, 1852.5									
Band	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
LTE2	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
5MHz	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
16QAM	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								
Band LTE2 5MHz QPSK	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1852.5									
	3705.00	-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	
	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	
	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	
	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 LTE2 3MHz 16QAM	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
	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
	7406.00	-14.9	H	3.0	35.7	1.0	-49.6	-13.0	-36.6
Mid Ch, 1880									
	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 LTE2 3MHz QPSK	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
	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
	7406.00	-14.4	H	3.0	35.7	1.0	-49.1	-13.0	-36.1
Mid Ch, 1880									
	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										
Band LTE2 1.4MHz 16QAM	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							

UL Verification Services Above 1GHz High Frequency Substitution Measurement									
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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 LTE2 1.4MHz QPSK	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
	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
	7402.80	-14.4	H	3.0	35.7	1.0	-49.2	-13.0	-36.2
Mid Ch, 1880									
	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