WCDMA

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: D. Mun & J.Ko
Configuration: EUT + Earphones + AC Adapter
Location: Chamber B
Mode: HSDPA Band 2 Harmonics

Band

Band 2

HSDPA

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1852.4									
3704.80	-19.3	V	3.0	35.9	1.0	-54.2	-13.0	-41.2	
5557.20	-27.2	V	3.0	35.5	1.0	-61.7	-13.0	-48.7	
7409.60	-26.9	V	3.0	35.7	1.0	-61.7	-13.0	-48.7	
3704.80	-1.5	H	3.0	35.9	1.0	-36.4	-13.0	-23.4	
5557.20	-18.7	H	3.0	35.5	1.0	-53.1	-13.0	-40.1	
7409.60	-25.1	H	3.0	35.7	1.0	-59.9	-13.0	-46.9	
Mid Ch, 1880									
3760.00	-19.8	V	3.0	35.8	1.0	-54.6	-13.0	-41.6	
5640.00	-27.4	V	3.0	35.5	1.0	-61.9	-13.0	-48.9	
7520.00	-26.6	V	3.0	35.7	1.0	-61.3	-13.0	-48.3	
3760.00	-3.9	H	3.0	35.8	1.0	-38.7	-13.0	-25.7	
5640.00	-20.8	H	3.0	35.5	1.0	-55.2	-13.0	-42.2	
7520.00	-24.9	H	3.0	35.7	1.0	-59.6	-13.0	-46.6	
High Ch, 1907.6									
3815.20	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3	
5722.80	-28.4	V	3.0	35.5	1.0	-62.9	-13.0	-49.9	
7630.40	-27.2	V	3.0	35.8	1.0	-61.9	-13.0	-48.9	
3815.20	-6.2	H	3.0	35.8	1.0	-40.9	-13.0	-27.9	
5722.80	-24.5	H	3.0	35.5	1.0	-59.0	-13.0	-46.0	
7630.40	-24.6	H	3.0	35.8	1.0	-59.4	-13.0	-46.4	

UL VERIFICATION SERVICES INC. FORM NO: CCSUP4701H
47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 771-1000 FAX: (510) 661-0888

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: D. Mun & J.Ko
Configuration: EUT + Earphones + AC Adapter
Location: Chamber B
Mode: Rel99 Band 2 Harmonics

Band

Band 2

REL99

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1852.4									
3704.80	-19.6	V	3.0	35.9	1.0	-54.5	-13.0	-41.5	
5557.20	-25.9	V	3.0	35.5	1.0	-60.4	-13.0	-47.4	
7409.60	-26.8	V	3.0	35.7	1.0	-61.5	-13.0	-48.5	
3704.80	-0.1	H	3.0	35.9	1.0	-34.9	-13.0	-21.9	
5557.20	-18.9	H	3.0	35.5	1.0	-53.4	-13.0	-40.4	
7409.60	-24.9	H	3.0	35.7	1.0	-59.6	-13.0	-46.6	
Mid Ch, 1880									
3760.00	-21.6	V	3.0	35.8	1.0	-56.4	-13.0	-43.4	
5640.00	-27.2	V	3.0	35.5	1.0	-61.7	-13.0	-48.7	
7520.00	-27.1	V	3.0	35.7	1.0	-61.8	-13.0	-48.8	
3760.00	-3.6	H	3.0	35.8	1.0	-38.4	-13.0	-25.4	
5640.00	-19.7	H	3.0	35.5	1.0	-54.2	-13.0	-41.2	
7520.00	-23.5	H	3.0	35.7	1.0	-58.2	-13.0	-45.2	
High Ch, 1907.6									
3815.20	-19.8	V	3.0	35.8	1.0	-54.6	-13.0	-41.6	
5722.80	-25.0	V	3.0	35.5	1.0	-59.5	-13.0	-46.5	
7630.40	-27.4	V	3.0	35.8	1.0	-62.2	-13.0	-49.2	
3815.20	-5.5	H	3.0	35.8	1.0	-40.2	-13.0	-27.2	
5722.80	-26.2	H	3.0	35.5	1.0	-60.7	-13.0	-47.7	
7630.40	0.0	H	3.0	35.8	1.0	-34.8	-13.0	-21.8	

UL VERIFICATION SERVICES INC. FORM NO: CCSUP4701H
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UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: D. Mun & J. Ko
Configuration: EUT + Earphones + AC Adapter
Location: Chamber B
Mode: HSDPA Band 4 Harmonics

Band

Band 4

HSDPA

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1712.4									
3424.80	-35.5	V	3.0	36.1	1.0	-70.5	-13.0	-57.5	
5137.20	-28.2	V	3.0	35.4	1.0	-62.6	-13.0	-49.6	
6849.60	-27.0	V	3.0	35.7	1.0	-61.7	-13.0	-48.7	
3424.80	-6.0	H	3.0	36.1	1.0	-41.1	-13.0	-28.1	
5137.20	-12.8	H	3.0	35.4	1.0	-47.2	-13.0	-34.2	
6849.60	-25.8	H	3.0	35.7	1.0	-60.4	-13.0	-47.4	
Mid Ch, 1732.6									
3465.20	-31.2	V	3.0	36.0	1.0	-66.2	-13.0	-53.2	
5197.80	-28.3	V	3.0	35.4	1.0	-62.7	-13.0	-49.7	
6930.40	-26.7	V	3.0	35.7	1.0	-61.3	-13.0	-48.3	
3465.20	-2.8	H	3.0	36.0	1.0	-37.8	-13.0	-24.8	
5197.80	-8.1	H	3.0	35.4	1.0	-42.5	-13.0	-29.5	
6930.40	-24.8	H	3.0	35.7	1.0	-59.4	-13.0	-46.4	
High Ch, 1752.6									
3505.20	-5.5	V	3.0	36.0	1.0	-40.5	-13.0	-27.5	
5257.80	1.4	V	3.0	35.4	1.0	-33.0	-13.0	-20.0	
7010.40	3.5	V	3.0	35.7	1.0	-31.2	-13.0	-18.2	
3505.20	3.4	H	3.0	36.0	1.0	-31.6	-13.0	-18.6	
5257.80	3.9	H	3.0	35.4	1.0	-30.6	-13.0	-17.6	
7010.40	5.8	H	3.0	35.7	1.0	-28.9	-13.0	-15.9	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: D. Mun & J. Ko
Configuration: EUT + Earphones + AC Adapter
Location: Chamber B
Mode: Rel. 99 Band 4 Harmonics

Band

Band 4

REL99

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1712.4									
3424.80	-34.1	V	3.0	36.1	1.0	-69.2	-13.0	-56.2	
5137.20	-26.6	V	3.0	35.4	1.0	-61.1	-13.0	-48.1	
6849.60	-25.6	V	3.0	35.7	1.0	-60.2	-13.0	-47.2	
3424.80	-8.0	H	3.0	36.1	1.0	-43.0	-13.0	-30.0	
5137.20	-12.7	H	3.0	35.4	1.0	-47.2	-13.0	-34.2	
6849.60	-25.0	H	3.0	35.7	1.0	-59.6	-13.0	-46.6	
Mid Ch, 1732.6									
3465.20	-30.2	V	3.0	36.0	1.0	-65.2	-13.0	-52.2	
5197.80	-27.4	V	3.0	35.4	1.0	-61.9	-13.0	-48.9	
6930.40	-25.6	V	3.0	35.7	1.0	-60.3	-13.0	-47.3	
3465.20	-3.7	H	3.0	36.0	1.0	-38.7	-13.0	-25.7	
5197.80	-7.2	H	3.0	35.4	1.0	-41.6	-13.0	-28.6	
6930.40	-24.2	H	3.0	35.7	1.0	-58.9	-13.0	-45.9	
High Ch, 1752.6									
3505.20	-5.6	V	3.0	36.0	1.0	-40.6	-13.0	-27.6	
5257.80	2.6	V	3.0	35.4	1.0	-31.8	-13.0	-18.8	
7010.40	-6.5	V	3.0	35.7	1.0	-41.2	-13.0	-28.2	
3505.20	-7.3	H	3.0	36.0	1.0	-42.3	-13.0	-29.3	
5257.80	3.2	H	3.0	35.4	1.0	-31.2	-13.0	-18.2	
7010.40	6.7	H	3.0	35.7	1.0	-28.0	-13.0	-15.0	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: D. Mun & J. Ko
Configuration: EUT + Earphones + AC Adapter
Location: Chamber B
Mode: HSDPA Band 5 Harmonics

Band

Band 5

HSDPA

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									
1652.80	-4.7	V	3.0	37.0	1.0	-40.8	-13.0	-27.8	
2479.20	-19.7	V	3.0	36.4	1.0	-55.1	-13.0	-42.1	
3305.60	-22.0	V	3.0	36.1	1.0	-57.2	-13.0	-44.2	
1652.80	-7.6	H	3.0	37.0	1.0	-43.6	-13.0	-30.6	
2479.20	-25.2	H	3.0	36.4	1.0	-60.6	-13.0	-47.6	
3305.60	-22.4	H	3.0	36.1	1.0	-57.6	-13.0	-44.6	
Mid Ch, 836.6									
1673.20	-10.8	V	3.0	37.0	1.0	-46.8	-13.0	-33.8	
2509.80	-23.8	V	3.0	36.4	1.0	-59.2	-13.0	-46.2	
3346.40	-21.6	V	3.0	36.1	1.0	-56.7	-13.0	-43.7	
1673.20	-15.7	H	3.0	37.0	1.0	-51.7	-13.0	-38.7	
2509.80	-25.4	H	3.0	36.4	1.0	-60.8	-13.0	-47.8	
3346.40	-22.0	H	3.0	36.1	1.0	-57.1	-13.0	-44.1	
High Ch, 846.6									
1693.20	-17.2	V	3.0	37.0	1.0	-53.2	-13.0	-40.2	
2539.80	-24.5	V	3.0	36.4	1.0	-59.9	-13.0	-46.9	
3386.40	-21.7	V	3.0	36.1	1.0	-56.8	-13.0	-43.8	
1693.20	-9.9	H	3.0	37.0	1.0	-45.9	-13.0	-32.9	
2539.80	-25.7	H	3.0	36.4	1.0	-61.1	-13.0	-48.1	
3386.40	-22.0	H	3.0	36.1	1.0	-57.1	-13.0	-44.1	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: D. Mun & J. Ko
Configuration: EUT + Earphones + AC Adapter
Location: Chamber B
Mode: Rel99 Band 5 Harmonics

Band

Band 5

REL99

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									
1652.80	1.3	V	3.0	37.0	1.0	-34.7	-13.0	-21.7	
2479.20	-15.4	V	3.0	36.4	1.0	-50.9	-13.0	-37.9	
3305.60	-22.1	V	3.0	36.1	1.0	-57.3	-13.0	-44.3	
1652.80	-0.7	H	3.0	37.0	1.0	-36.8	-13.0	-23.8	
2479.20	-20.6	H	3.0	36.4	1.0	-56.1	-13.0	-43.1	
3305.60	-22.4	H	3.0	36.1	1.0	-57.5	-13.0	-44.5	
Mid Ch, 836.6									
1673.20	-12.5	V	3.0	37.0	1.0	-48.5	-13.0	-35.5	
2509.80	-23.3	V	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3346.40	-21.9	V	3.0	36.1	1.0	-57.0	-13.0	-44.0	
1673.20	-16.0	H	3.0	37.0	1.0	-52.0	-13.0	-39.0	
2509.80	-26.0	H	3.0	36.4	1.0	-61.4	-13.0	-48.4	
3346.40	-22.0	H	3.0	36.1	1.0	-57.1	-13.0	-44.1	
High Ch, 846.6									
1693.20	-12.2	V	3.0	37.0	1.0	-48.2	-13.0	-35.2	
2539.80	-23.8	V	3.0	36.4	1.0	-59.2	-13.0	-46.2	
3386.40	-22.2	V	3.0	36.1	1.0	-57.3	-13.0	-44.3	
1693.20	-9.6	H	3.0	37.0	1.0	-45.6	-13.0	-32.6	
2539.80	-26.1	H	3.0	36.4	1.0	-61.5	-13.0	-48.5	
3386.40	-22.3	H	3.0	36.1	1.0	-57.4	-13.0	-44.4	

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LTE Band 2

Band

LTE2

20MHz

16QAM

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

Company: LG Electronics
Project #: 15I21552
Date: 8/31/2015
Test Engineer: Charles Vergonio
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_16QAM Band 2 Harmonics, 20MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.5									
3703.00	-13.5	V	3.0	35.9	1.0	-48.4	-13.0	-35.4	
5554.50	-14.5	V	3.0	35.5	1.0	-49.0	-13.0	-36.0	
7406.00	-11.5	V	3.0	35.7	1.0	-46.3	-13.0	-33.3	
3703.00	-17.1	H	3.0	35.9	1.0	-52.0	-13.0	-39.0	
5554.50	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
7406.00	-11.7	H	3.0	35.7	1.0	-46.4	-13.0	-33.4	
Mid Ch, 1880									
3760.00	-18.7	V	3.0	35.8	1.0	-53.5	-13.0	-40.5	
5640.00	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9	
7520.00	-12.6	V	3.0	35.7	1.0	-47.3	-13.0	-34.3	
3760.00	-18.6	H	3.0	35.8	1.0	-53.5	-13.0	-40.5	
5640.00	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
7520.00	-12.2	H	3.0	35.7	1.0	-47.0	-13.0	-34.0	
High Ch, 1908.5									
3817.00	-17.3	V	3.0	35.8	1.0	-52.0	-13.0	-39.0	
5725.50	-14.0	V	3.0	35.5	1.0	-48.5	-13.0	-35.5	
7634.00	-12.2	V	3.0	35.8	1.0	-47.0	-13.0	-34.0	
3817.00	-17.6	H	3.0	35.8	1.0	-52.4	-13.0	-39.4	
5725.50	-13.6	H	3.0	35.5	1.0	-48.1	-13.0	-35.1	
7634.00	-11.4	H	3.0	35.8	1.0	-46.1	-13.0	-33.1	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/31/2015
Test Engineer: Charles Vergonio
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_QPSK Band 2 Harmonics, 20MHz Bandwidth

Band LTE2 20MHz 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, 1851.5									
3703.00	-13.4	V	3.0	35.9	1.0	-48.2	-13.0	-35.2	
5554.50	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9	
7406.00	-11.5	V	3.0	35.7	1.0	-46.2	-13.0	-33.2	
3703.00	-16.9	H	3.0	35.9	1.0	-51.7	-13.0	-38.7	
5554.50	-13.7	H	3.0	35.5	1.0	-48.2	-13.0	-35.2	
7406.00	-11.6	H	3.0	35.7	1.0	-46.3	-13.0	-33.3	
Mid Ch, 1880									
3760.00	-18.6	V	3.0	35.8	1.0	-53.4	-13.0	-40.4	
5640.00	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
7520.00	-12.4	V	3.0	35.7	1.0	-47.2	-13.0	-34.2	
3760.00	-18.7	H	3.0	35.8	1.0	-53.5	-13.0	-40.5	
5640.00	-13.7	H	3.0	35.5	1.0	-48.2	-13.0	-35.2	
7520.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	
High Ch, 1908.5									
3817.00	-17.2	V	3.0	35.8	1.0	-52.0	-13.0	-39.0	
5725.50	-14.0	V	3.0	35.5	1.0	-48.5	-13.0	-35.5	
7634.00	-12.1	V	3.0	35.8	1.0	-46.9	-13.0	-33.9	
3817.00	-17.5	H	3.0	35.8	1.0	-52.3	-13.0	-39.3	
5725.50	-13.6	H	3.0	35.5	1.0	-48.1	-13.0	-35.1	
7634.00	-11.2	H	3.0	35.8	1.0	-45.9	-13.0	-32.9	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/31/2015
Test Engineer: Charles Vergonio
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_16QAM Band 2 Harmonics, 15MHz Bandwidth

Band

LTE2

15MHz

16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.5									
3703.00	-13.5	V	3.0	35.9	1.0	-48.3	-13.0	-35.3	
5554.50	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9	
7406.00	-11.5	V	3.0	35.7	1.0	-46.2	-13.0	-33.2	
3703.00	-16.9	H	3.0	35.9	1.0	-51.7	-13.0	-38.7	
5554.50	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
7406.00	-11.8	H	3.0	35.7	1.0	-46.5	-13.0	-33.5	
Mid Ch, 1880									
3760.00	-18.7	V	3.0	35.8	1.0	-53.5	-13.0	-40.5	
5640.00	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9	
7520.00	-12.5	V	3.0	35.7	1.0	-47.3	-13.0	-34.3	
3760.00	-18.6	H	3.0	35.8	1.0	-53.4	-13.0	-40.4	
5640.00	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
7520.00	-12.3	H	3.0	35.7	1.0	-47.1	-13.0	-34.1	
High Ch, 1908.5									
3817.00	-17.3	V	3.0	35.8	1.0	-52.1	-13.0	-39.1	
5725.50	-13.9	V	3.0	35.5	1.0	-48.4	-13.0	-35.4	
7634.00	-12.2	V	3.0	35.8	1.0	-46.9	-13.0	-33.9	
3817.00	-17.5	H	3.0	35.8	1.0	-52.2	-13.0	-39.2	
5725.50	-13.7	H	3.0	35.5	1.0	-48.2	-13.0	-35.2	
7634.00	-11.1	H	3.0	35.8	1.0	-45.8	-13.0	-32.8	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/31/2015
Test Engineer: Charles Vergonio
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_QPSK Band 2 Harmonics, 15MHz Bandwidth

Band
LTE2
15MHz
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, 1851.5									
3703.00	-13.3	V	3.0	35.9	1.0	-48.1	-13.0	-35.1	
5554.50	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
7406.00	-11.4	V	3.0	35.7	1.0	-46.1	-13.0	-33.1	
3703.00	-16.7	H	3.0	35.9	1.0	-51.6	-13.0	-38.6	
5554.50	-13.8	H	3.0	35.5	1.0	-48.2	-13.0	-35.2	
7406.00	-11.6	H	3.0	35.7	1.0	-46.3	-13.0	-33.3	
Mid Ch, 1880									
3760.00	-18.7	V	3.0	35.8	1.0	-53.5	-13.0	-40.5	
5640.00	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
7520.00	-12.5	V	3.0	35.7	1.0	-47.2	-13.0	-34.2	
3760.00	-18.7	H	3.0	35.8	1.0	-53.5	-13.0	-40.5	
5640.00	-13.6	H	3.0	35.5	1.0	-48.1	-13.0	-35.1	
7520.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	
High Ch, 1908.5									
3817.00	-17.2	V	3.0	35.8	1.0	-52.0	-13.0	-39.0	
5725.50	-14.0	V	3.0	35.5	1.0	-48.5	-13.0	-35.5	
7634.00	-12.1	V	3.0	35.8	1.0	-46.8	-13.0	-33.8	
3817.00	-17.4	H	3.0	35.8	1.0	-52.2	-13.0	-39.2	
5725.50	-13.7	H	3.0	35.5	1.0	-48.2	-13.0	-35.2	
7634.00	-11.1	H	3.0	35.8	1.0	-45.8	-13.0	-32.8	

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Band

LTE2

10MHz

16QAM

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

Company: LG Electronics
Project #: 15I21552
Date: 8/31/2015
Test Engineer: Charles Vergonio
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_16QAM Band 2 Harmonics, 10MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.5									
3703.00	-13.5	V	3.0	35.9	1.0	-48.4	-13.0	-35.4	
5554.50	-14.5	V	3.0	35.5	1.0	-49.0	-13.0	-36.0	
7406.00	-11.6	V	3.0	35.7	1.0	-46.3	-13.0	-33.3	
3703.00	-16.9	H	3.0	35.9	1.0	-51.8	-13.0	-38.8	
5554.50	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
7406.00	-11.8	H	3.0	35.7	1.0	-46.5	-13.0	-33.5	
Mid Ch, 1880									
3760.00	-18.8	V	3.0	35.8	1.0	-53.6	-13.0	-40.6	
5640.00	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9	
7520.00	-12.6	V	3.0	35.7	1.0	-47.3	-13.0	-34.3	
3760.00	-18.6	H	3.0	35.8	1.0	-53.4	-13.0	-40.4	
5640.00	-13.9	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
7520.00	-12.3	H	3.0	35.7	1.0	-47.0	-13.0	-34.0	
High Ch, 1908.5									
3817.00	-17.3	V	3.0	35.8	1.0	-52.1	-13.0	-39.1	
5725.50	-13.9	V	3.0	35.5	1.0	-48.4	-13.0	-35.4	
7634.00	-12.1	V	3.0	35.8	1.0	-46.9	-13.0	-33.9	
3817.00	-17.4	H	3.0	35.8	1.0	-52.2	-13.0	-39.2	
5725.50	-13.7	H	3.0	35.5	1.0	-48.2	-13.0	-35.2	
7634.00	-11.0	H	3.0	35.8	1.0	-45.8	-13.0	-32.8	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/31/2015
Test Engineer: Charles Vergonio
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_QPSK Band 2 Harmonics, 10MHz Bandwidth

Band LTE2 10MHz 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, 1851.5									
3703.00	-13.4	V	3.0	35.9	1.0	-48.3	-13.0	-35.3	
5554.50	-14.3	V	3.0	35.5	1.0	-48.7	-13.0	-35.7	
7406.00	-11.4	V	3.0	35.7	1.0	-46.1	-13.0	-33.1	
3703.00	-16.8	H	3.0	35.9	1.0	-51.7	-13.0	-38.7	
5554.50	-13.9	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
7406.00	-11.8	H	3.0	35.7	1.0	-46.5	-13.0	-33.5	
Mid Ch, 1880									
3760.00	-18.6	V	3.0	35.8	1.0	-53.5	-13.0	-40.5	
5640.00	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
7520.00	-12.5	V	3.0	35.7	1.0	-47.2	-13.0	-34.2	
3760.00	-18.5	H	3.0	35.8	1.0	-53.3	-13.0	-40.3	
5640.00	-13.7	H	3.0	35.5	1.0	-48.2	-13.0	-35.2	
7520.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	
High Ch, 1908.5									
3817.00	-17.2	V	3.0	35.8	1.0	-52.0	-13.0	-39.0	
5725.50	-13.8	V	3.0	35.5	1.0	-48.3	-13.0	-35.3	
7634.00	-12.1	V	3.0	35.8	1.0	-46.9	-13.0	-33.9	
3817.00	-17.3	H	3.0	35.8	1.0	-52.1	-13.0	-39.1	
5725.50	-13.3	H	3.0	35.5	1.0	-47.8	-13.0	-34.8	
7634.00	-11.0	H	3.0	35.8	1.0	-45.8	-13.0	-32.8	

UL VERIFICATION SERVICES INC. FORM NO: CCSUP4701H
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UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG Electronics
Project #: 15I21552
Date: 8/31/2015
Test Engineer: Charles Vergonio
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_16QAM Band 2 Harmonics, 5MHz Bandwidth

Band
LTE2
5MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.5									
3703.00	-13.5	V	3.0	35.9	1.0	-48.4	-13.0	-35.4	
5554.50	-14.5	V	3.0	35.5	1.0	-49.0	-13.0	-36.0	
7406.00	-11.6	V	3.0	35.7	1.0	-46.4	-13.0	-33.4	
3703.00	-16.9	H	3.0	35.9	1.0	-51.8	-13.0	-38.8	
5554.50	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
7406.00	-11.8	H	3.0	35.7	1.0	-46.5	-13.0	-33.5	
Mid Ch, 1880									
3760.00	-18.7	V	3.0	35.8	1.0	-53.5	-13.0	-40.5	
5640.00	-14.2	V	3.0	35.5	1.0	-48.7	-13.0	-35.7	
7520.00	-12.3	V	3.0	35.7	1.0	-47.0	-13.0	-34.0	
3760.00	-18.9	H	3.0	35.8	1.0	-53.7	-13.0	-40.7	
5640.00	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
7520.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	
High Ch, 1908.5									
3817.00	-17.2	V	3.0	35.8	1.0	-51.9	-13.0	-38.9	
5725.50	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
7634.00	-12.2	V	3.0	35.8	1.0	-47.0	-13.0	-34.0	
3817.00	-17.7	H	3.0	35.8	1.0	-52.4	-13.0	-39.4	
5725.50	-13.5	H	3.0	35.5	1.0	-48.0	-13.0	-35.0	
7634.00	-11.3	H	3.0	35.8	1.0	-46.0	-13.0	-33.0	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/31/2015
Test Engineer: Charles Vergonio
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
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, 1851.5									
3703.00	-13.4	V	3.0	35.9	1.0	-48.3	-13.0	-35.3	
5554.50	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
7406.00	-11.4	V	3.0	35.7	1.0	-46.2	-13.0	-33.2	
3703.00	-16.8	H	3.0	35.9	1.0	-51.6	-13.0	-38.6	
5554.50	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
7406.00	-11.7	H	3.0	35.7	1.0	-46.4	-13.0	-33.4	
Mid Ch, 1880									
3760.00	-18.6	V	3.0	35.8	1.0	-53.4	-13.0	-40.4	
5640.00	-14.1	V	3.0	35.5	1.0	-48.6	-13.0	-35.6	
7520.00	-12.2	V	3.0	35.7	1.0	-46.9	-13.0	-33.9	
3760.00	-18.7	H	3.0	35.8	1.0	-53.5	-13.0	-40.5	
5640.00	-13.5	H	3.0	35.5	1.0	-48.0	-13.0	-35.0	
7520.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	
High Ch, 1908.5									
3817.00	-17.1	V	3.0	35.8	1.0	-51.8	-13.0	-38.8	
5725.50	-14.1	V	3.0	35.5	1.0	-48.6	-13.0	-35.6	
7634.00	-12.1	V	3.0	35.8	1.0	-46.9	-13.0	-33.9	
3817.00	-17.4	H	3.0	35.8	1.0	-52.2	-13.0	-39.2	
5725.50	-13.3	H	3.0	35.5	1.0	-47.8	-13.0	-34.8	
7634.00	-11.0	H	3.0	35.8	1.0	-45.8	-13.0	-32.8	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_16QAM Band 2 Harmonics, 3MHz Bandwidth

Band
LTE2
3MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.5									
3703.00	-13.3	V	3.0	35.9	1.0	-48.2	-13.0	-35.2	
5554.50	-14.7	V	3.0	35.5	1.0	-49.1	-13.0	-36.1	
7406.00	-11.8	V	3.0	35.7	1.0	-46.5	-13.0	-33.5	
3703.00	-16.9	H	3.0	35.9	1.0	-51.8	-13.0	-38.8	
5554.50	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
7406.00	-11.7	H	3.0	35.7	1.0	-46.4	-13.0	-33.4	
Mid Ch, 1880									
3760.00	-18.6	V	3.0	35.8	1.0	-53.4	-13.0	-40.4	
5640.00	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9	
7520.00	-12.2	V	3.0	35.7	1.0	-47.0	-13.0	-34.0	
3760.00	-18.5	H	3.0	35.8	1.0	-53.3	-13.0	-40.3	
5640.00	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
7520.00	-12.0	H	3.0	35.7	1.0	-46.8	-13.0	-33.8	
High Ch, 1908.5									
3817.00	-17.0	V	3.0	35.8	1.0	-51.8	-13.0	-38.8	
5725.50	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
7634.00	-12.1	V	3.0	35.8	1.0	-46.9	-13.0	-33.9	
3817.00	-17.2	H	3.0	35.8	1.0	-52.0	-13.0	-39.0	
5725.50	-13.3	H	3.0	35.5	1.0	-47.8	-13.0	-34.8	
7634.00	-11.2	H	3.0	35.8	1.0	-45.9	-13.0	-32.9	

UL VERIFICATION SERVICES INC. FORM NO: CCSUP4701H
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UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_QPSK Band 2 Harmonics, 3MHz Bandwidth

Band
LTE2
3MHz
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, 1851.5									
3703.00	-13.0	V	3.0	35.9	1.0	-47.9	-13.0	-34.9	
5554.50	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
7406.00	-11.5	V	3.0	35.7	1.0	-46.2	-13.0	-33.2	
3703.00	-17.0	H	3.0	35.9	1.0	-51.9	-13.0	-38.9	
5554.50	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
7406.00	-11.4	H	3.0	35.7	1.0	-46.2	-13.0	-33.2	
Mid Ch, 1880									
3760.00	-18.4	V	3.0	35.8	1.0	-53.2	-13.0	-40.2	
5640.00	-14.0	V	3.0	35.5	1.0	-48.5	-13.0	-35.5	
7520.00	-12.0	V	3.0	35.7	1.0	-46.7	-13.0	-33.7	
3760.00	-17.7	H	3.0	35.8	1.0	-52.5	-13.0	-39.5	
5640.00	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
7520.00	-11.5	H	3.0	35.7	1.0	-46.3	-13.0	-33.3	
High Ch, 1908.5									
3817.00	-16.9	V	3.0	35.8	1.0	-51.7	-13.0	-38.7	
5725.50	-14.0	V	3.0	35.5	1.0	-48.5	-13.0	-35.5	
7634.00	-11.7	V	3.0	35.8	1.0	-46.5	-13.0	-33.5	
3817.00	-17.5	H	3.0	35.8	1.0	-52.3	-13.0	-39.3	
5725.50	-13.6	H	3.0	35.5	1.0	-48.1	-13.0	-35.1	
7634.00	-11.1	H	3.0	35.8	1.0	-45.9	-13.0	-32.9	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_16QAM Band 2 Harmonics, 1.4MHz Bandwidth

Band
LTE2
1.4MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.7									
3701.40	-13.7	V	3.0	35.9	1.0	-48.6	-13.0	-35.6	
5552.10	-13.5	V	3.0	35.5	1.0	-48.0	-13.0	-35.0	
7402.80	-11.2	V	3.0	35.7	1.0	-46.0	-13.0	-33.0	
3701.40	-17.4	H	3.0	35.9	1.0	-52.2	-13.0	-39.2	
5552.10	-13.9	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
7402.80	-11.7	H	3.0	35.7	1.0	-46.5	-13.0	-33.5	
Mid Ch, 1880									
3760.00	-18.8	V	3.0	35.8	1.0	-53.6	-13.0	-40.6	
5640.00	-14.5	V	3.0	35.5	1.0	-49.0	-13.0	-36.0	
7520.00	-12.3	V	3.0	35.7	1.0	-47.1	-13.0	-34.1	
3760.00	-18.9	H	3.0	35.8	1.0	-53.7	-13.0	-40.7	
5640.00	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
7520.00	-10.9	H	3.0	35.7	1.0	-45.6	-13.0	-32.6	
High Ch, 1909.3									
3818.60	-16.6	V	3.0	35.8	1.0	-51.4	-13.0	-38.4	
5727.90	-13.1	V	3.0	35.5	1.0	-47.6	-13.0	-34.6	
7637.20	-11.5	V	3.0	35.8	1.0	-46.3	-13.0	-33.3	
3818.60	-18.0	H	3.0	35.8	1.0	-52.8	-13.0	-39.8	
5727.90	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
7637.20	-11.2	H	3.0	35.8	1.0	-45.9	-13.0	-32.9	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_QPSK Band 2 Harmonics, 1.4MHz Bandwidth

Band
LTE2
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, 1850.7									
3701.40	-13.0	V	3.0	35.9	1.0	-47.8	-13.0	-34.8	
5552.10	-14.2	V	3.0	35.5	1.0	-48.6	-13.0	-35.6	
7402.80	-11.0	V	3.0	35.7	1.0	-45.7	-13.0	-32.7	
3701.40	-16.9	H	3.0	35.9	1.0	-51.8	-13.0	-38.8	
5552.10	-14.0	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
7402.80	-11.6	H	3.0	35.7	1.0	-46.3	-13.0	-33.3	
Mid Ch, 1880									
3760.00	-18.5	V	3.0	35.8	1.0	-53.3	-13.0	-40.3	
5640.00	-14.4	V	3.0	35.5	1.0	-48.9	-13.0	-35.9	
7520.00	-12.0	V	3.0	35.7	1.0	-46.7	-13.0	-33.7	
3760.00	-18.1	H	3.0	35.8	1.0	-52.9	-13.0	-39.9	
5640.00	-13.9	H	3.0	35.5	1.0	-48.4	-13.0	-35.4	
7520.00	-10.8	H	3.0	35.7	1.0	-45.5	-13.0	-32.5	
High Ch, 1909.3									
3818.60	-16.7	V	3.0	35.8	1.0	-51.5	-13.0	-38.5	
5727.90	-13.4	V	3.0	35.5	1.0	-47.9	-13.0	-34.9	
7637.20	-11.3	V	3.0	35.8	1.0	-46.0	-13.0	-33.0	
3818.60	-17.7	H	3.0	35.8	1.0	-52.4	-13.0	-39.4	
5727.90	-13.8	H	3.0	35.5	1.0	-48.3	-13.0	-35.3	
7637.20	-10.7	H	3.0	35.8	1.0	-45.5	-13.0	-32.5	

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LTE Band 4

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_16QAM Band 4 Harmonics, 20MHz Bandwidth

Band
LTE4
20MHz
16QAM

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	-15.3	V	3.0	36.0	1.0	-50.4	-13.0	-37.4	
5160.00	-11.5	V	3.0	35.4	1.0	-45.9	-13.0	-32.9	
6880.00	-11.6	V	3.0	35.7	1.0	-46.3	-13.0	-33.3	
3440.00	-14.7	H	3.0	36.0	1.0	-49.8	-13.0	-36.8	
5160.00	-11.1	H	3.0	35.4	1.0	-45.5	-13.0	-32.5	
6880.00	-9.7	H	3.0	35.7	1.0	-44.4	-13.0	-31.4	
Mid Ch, 1732.5									
3465.00	-15.0	V	3.0	36.0	1.0	-50.1	-13.0	-37.1	
5197.50	-11.5	V	3.0	35.4	1.0	-46.0	-13.0	-33.0	
6930.00	-10.3	V	3.0	35.7	1.0	-45.0	-13.0	-32.0	
3465.00	-14.2	H	3.0	36.0	1.0	-49.3	-13.0	-36.3	
5197.50	-10.9	H	3.0	35.4	1.0	-45.3	-13.0	-32.3	
6930.00	-9.9	H	3.0	35.7	1.0	-44.6	-13.0	-31.6	
High Ch, 1745									
3490.00	-15.5	V	3.0	36.0	1.0	-50.6	-13.0	-37.6	
5235.00	-11.5	V	3.0	35.4	1.0	-45.9	-13.0	-32.9	
6980.00	-11.5	V	3.0	35.7	1.0	-46.2	-13.0	-33.2	
3490.00	-14.9	H	3.0	36.0	1.0	-49.9	-13.0	-36.9	
5235.00	-11.6	H	3.0	35.4	1.0	-46.0	-13.0	-33.0	
6980.00	-10.2	H	3.0	35.7	1.0	-44.9	-13.0	-31.9	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_QPSK Band 4 Harmonics, 20MHz Bandwidth

Band
LTE4
20MHz
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, 1720									
3440.00	-15.2	V	3.0	36.0	1.0	-50.2	-13.0	-37.2	
5160.00	-11.2	V	3.0	35.4	1.0	-45.6	-13.0	-32.6	
6880.00	-11.1	V	3.0	35.7	1.0	-45.8	-13.0	-32.8	
3440.00	-14.6	H	3.0	36.0	1.0	-49.7	-13.0	-36.7	
5160.00	-10.9	H	3.0	35.4	1.0	-45.3	-13.0	-32.3	
6880.00	-9.4	H	3.0	35.7	1.0	-44.0	-13.0	-31.0	
Mid Ch, 1732.5									
3465.00	-15.6	V	3.0	36.0	1.0	-50.6	-13.0	-37.6	
5197.50	-11.3	V	3.0	35.4	1.0	-45.7	-13.0	-32.7	
6930.00	-10.9	V	3.0	35.7	1.0	-45.5	-13.0	-32.5	
3465.00	-14.7	H	3.0	36.0	1.0	-49.7	-13.0	-36.7	
5197.50	-10.8	H	3.0	35.4	1.0	-45.3	-13.0	-32.3	
6930.00	-9.6	H	3.0	35.7	1.0	-44.2	-13.0	-31.2	
High Ch, 1745									
3490.00	-15.4	V	3.0	36.0	1.0	-50.4	-13.0	-37.4	
5235.00	-11.2	V	3.0	35.4	1.0	-45.6	-13.0	-32.6	
6980.00	-11.2	V	3.0	35.7	1.0	-45.8	-13.0	-32.8	
3490.00	-14.8	H	3.0	36.0	1.0	-49.8	-13.0	-36.8	
5235.00	-11.0	H	3.0	35.4	1.0	-45.4	-13.0	-32.4	
6980.00	-9.7	H	3.0	35.7	1.0	-44.4	-13.0	-31.4	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_16QAM Band 4 Harmonics, 15MHz Bandwidth

Band
LTE4
15MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1717.5									
3435.00	-14.5	V	3.0	36.1	1.0	-49.6	-13.0	-36.6	
5152.50	-11.5	V	3.0	35.4	1.0	-45.9	-13.0	-32.9	
6870.00	-10.7	V	3.0	35.7	1.0	-45.4	-13.0	-32.4	
3435.00	-15.9	H	3.0	36.1	1.0	-51.0	-13.0	-38.0	
5152.50	-11.2	H	3.0	35.4	1.0	-45.6	-13.0	-32.6	
6870.00	-10.3	H	3.0	35.7	1.0	-44.9	-13.0	-31.9	
Mid Ch, 1732.5									
3465.00	-13.8	V	3.0	36.0	1.0	-48.9	-13.0	-35.9	
5197.50	-11.7	V	3.0	35.4	1.0	-46.1	-13.0	-33.1	
6930.00	-10.4	V	3.0	35.7	1.0	-45.1	-13.0	-32.1	
3465.00	-15.3	H	3.0	36.0	1.0	-50.3	-13.0	-37.3	
5197.50	-10.9	H	3.0	35.4	1.0	-45.3	-13.0	-32.3	
6930.00	-8.8	H	3.0	35.7	1.0	-43.5	-13.0	-30.5	
High Ch, 1747.5									
3495.00	-15.1	V	3.0	36.0	1.0	-50.1	-13.0	-37.1	
5242.50	-11.2	V	3.0	35.4	1.0	-45.7	-13.0	-32.7	
6990.00	-10.6	V	3.0	35.7	1.0	-45.3	-13.0	-32.3	
3495.00	-16.2	H	3.0	36.0	1.0	-51.2	-13.0	-38.2	
5242.50	-11.7	H	3.0	35.4	1.0	-46.2	-13.0	-33.2	
6990.00	-10.7	H	3.0	35.7	1.0	-45.4	-13.0	-32.4	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_QPSK Band 4 Harmonics, 15MHz Bandwidth

Band
LTE4
15MHz
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, 1717.5									
3435.00	-14.6	V	3.0	36.1	1.0	-49.7	-13.0	-36.7	
5152.50	-11.1	V	3.0	35.4	1.0	-45.5	-13.0	-32.5	
6870.00	-10.4	V	3.0	35.7	1.0	-45.1	-13.0	-32.1	
3435.00	-15.6	H	3.0	36.1	1.0	-50.7	-13.0	-37.7	
5152.50	-11.0	H	3.0	35.4	1.0	-45.4	-13.0	-32.4	
6870.00	-10.0	H	3.0	35.7	1.0	-44.7	-13.0	-31.7	
Mid Ch, 1732.5									
3465.00	-14.8	V	3.0	36.0	1.0	-49.8	-13.0	-36.8	
5197.50	-11.1	V	3.0	35.4	1.0	-45.5	-13.0	-32.5	
6930.00	-10.2	V	3.0	35.7	1.0	-44.9	-13.0	-31.9	
3465.00	-15.6	H	3.0	36.0	1.0	-50.6	-13.0	-37.6	
5197.50	-11.1	H	3.0	35.4	1.0	-45.5	-13.0	-32.5	
6930.00	-10.0	H	3.0	35.7	1.0	-44.6	-13.0	-31.6	
High Ch, 1747.5									
3495.00	-14.8	V	3.0	36.0	1.0	-49.8	-13.0	-36.8	
5242.50	-11.0	V	3.0	35.4	1.0	-45.5	-13.0	-32.5	
6990.00	-10.3	V	3.0	35.7	1.0	-45.0	-13.0	-32.0	
3495.00	-15.6	H	3.0	36.0	1.0	-50.6	-13.0	-37.6	
5242.50	-11.3	H	3.0	35.4	1.0	-45.7	-13.0	-32.7	
6990.00	-10.3	H	3.0	35.7	1.0	-45.0	-13.0	-32.0	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_16QAM Band 4 Harmonics, 10MHz Bandwidth

Band
LTE4
10MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1715									
3430.00	-15.3	V	3.0	36.1	1.0	-50.4	-13.0	-37.4	
5145.00	-11.4	V	3.0	35.4	1.0	-45.8	-13.0	-32.8	
6860.00	-11.0	V	3.0	35.7	1.0	-45.6	-13.0	-32.6	
3430.00	-15.4	H	3.0	36.1	1.0	-50.5	-13.0	-37.5	
5145.00	-11.6	H	3.0	35.4	1.0	-46.0	-13.0	-33.0	
6860.00	-9.1	H	3.0	35.7	1.0	-43.7	-13.0	-30.7	
Mid Ch, 1732.5									
3465.00	-15.4	V	3.0	36.0	1.0	-50.4	-13.0	-37.4	
5197.50	-11.4	V	3.0	35.4	1.0	-45.8	-13.0	-32.8	
6930.00	-10.2	V	3.0	35.7	1.0	-44.9	-13.0	-31.9	
3465.00	-15.3	H	3.0	36.0	1.0	-50.3	-13.0	-37.3	
5197.50	-10.6	H	3.0	35.4	1.0	-45.0	-13.0	-32.0	
6930.00	-8.9	H	3.0	35.7	1.0	-43.6	-13.0	-30.6	
High Ch, 1750									
3500.00	-14.6	V	3.0	36.0	1.0	-49.6	-13.0	-36.6	
5250.00	-12.5	V	3.0	35.4	1.0	-47.0	-13.0	-34.0	
7000.00	-11.1	V	3.0	35.7	1.0	-45.8	-13.0	-32.8	
3500.00	-15.6	H	3.0	36.0	1.0	-50.6	-13.0	-37.6	
5250.00	-11.7	H	3.0	35.4	1.0	-46.1	-13.0	-33.1	
7000.00	-9.8	H	3.0	35.7	1.0	-44.5	-13.0	-31.5	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_QPSK Band 4 Harmonics, 10MHz Bandwidth

Band
LTE4
10MHz
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, 1715									
3430.00	-14.3	V	3.0	36.1	1.0	-49.3	-13.0	-36.3	
5145.00	-11.2	V	3.0	35.4	1.0	-45.6	-13.0	-32.6	
6860.00	-10.6	V	3.0	35.7	1.0	-45.2	-13.0	-32.2	
3430.00	-15.3	H	3.0	36.1	1.0	-50.3	-13.0	-37.3	
5145.00	-11.3	H	3.0	35.4	1.0	-45.7	-13.0	-32.7	
6860.00	-8.9	H	3.0	35.7	1.0	-43.6	-13.0	-30.6	
Mid Ch, 1732.5									
3465.00	-14.5	V	3.0	36.0	1.0	-49.5	-13.0	-36.5	
5197.50	-11.2	V	3.0	35.4	1.0	-45.6	-13.0	-32.6	
6930.00	-10.5	V	3.0	35.7	1.0	-45.2	-13.0	-32.2	
3465.00	-15.3	H	3.0	36.0	1.0	-50.3	-13.0	-37.3	
5197.50	-11.2	H	3.0	35.4	1.0	-45.7	-13.0	-32.7	
6930.00	-9.6	H	3.0	35.7	1.0	-44.3	-13.0	-31.3	
High Ch, 1750									
3500.00	-14.6	V	3.0	36.0	1.0	-49.6	-13.0	-36.6	
5250.00	-12.3	V	3.0	35.4	1.0	-46.7	-13.0	-33.7	
7000.00	-10.7	V	3.0	35.7	1.0	-45.4	-13.0	-32.4	
3500.00	-15.5	H	3.0	36.0	1.0	-50.5	-13.0	-37.5	
5250.00	-11.5	H	3.0	35.4	1.0	-46.0	-13.0	-33.0	
7000.00	-9.7	H	3.0	35.7	1.0	-44.3	-13.0	-31.3	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_16QAM Band 4 Harmonics, 5MHz Bandwidth

Band
LTE4
5MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1712.5									
3425.00	-14.8	V	3.0	36.1	1.0	-49.8	-13.0	-36.8	
5137.50	-11.8	V	3.0	35.4	1.0	-46.3	-13.0	-33.3	
6850.00	-10.6	V	3.0	35.7	1.0	-45.2	-13.0	-32.2	
3425.00	-15.2	H	3.0	36.1	1.0	-50.3	-13.0	-37.3	
5137.50	-10.3	H	3.0	35.4	1.0	-44.8	-13.0	-31.8	
6850.00	-9.1	H	3.0	35.7	1.0	-43.7	-13.0	-30.7	
Mid Ch, 1732.5									
3465.00	-14.8	V	3.0	36.0	1.0	-49.8	-13.0	-36.8	
5197.50	-11.8	V	3.0	35.4	1.0	-46.2	-13.0	-33.2	
6930.00	-10.5	V	3.0	35.7	1.0	-45.2	-13.0	-32.2	
3465.00	-15.0	H	3.0	36.0	1.0	-50.0	-13.0	-37.0	
5197.50	-10.3	H	3.0	35.4	1.0	-44.7	-13.0	-31.7	
6930.00	-8.8	H	3.0	35.7	1.0	-43.4	-13.0	-30.4	
High Ch, 1752.5									
3505.00	-14.7	V	3.0	36.0	1.0	-49.7	-13.0	-36.7	
5257.50	-11.8	V	3.0	35.4	1.0	-46.2	-13.0	-33.2	
7010.00	-10.5	V	3.0	35.7	1.0	-45.2	-13.0	-32.2	
3505.00	-15.3	H	3.0	36.0	1.0	-50.3	-13.0	-37.3	
5257.50	-10.5	H	3.0	35.4	1.0	-45.0	-13.0	-32.0	
7010.00	-8.7	H	3.0	35.7	1.0	-43.4	-13.0	-30.4	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_QPSK Band 4 Harmonics, 5MHz Bandwidth

Band
LTE4
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, 1712.5									
3425.00	-14.9	V	3.0	36.1	1.0	-49.9	-13.0	-36.9	
5137.50	-12.0	V	3.0	35.4	1.0	-46.4	-13.0	-33.4	
6850.00	-10.8	V	3.0	35.7	1.0	-45.5	-13.0	-32.5	
3425.00	-15.5	H	3.0	36.1	1.0	-50.6	-13.0	-37.6	
5137.50	-10.5	H	3.0	35.4	1.0	-44.9	-13.0	-31.9	
6850.00	-9.7	H	3.0	35.7	1.0	-44.4	-13.0	-31.4	
Mid Ch, 1732.5									
3465.00	-14.9	V	3.0	36.0	1.0	-49.9	-13.0	-36.9	
5197.50	-11.7	V	3.0	35.4	1.0	-46.2	-13.0	-33.2	
6930.00	-10.5	V	3.0	35.7	1.0	-45.2	-13.0	-32.2	
3465.00	-15.1	H	3.0	36.0	1.0	-50.1	-13.0	-37.1	
5197.50	-9.9	H	3.0	35.4	1.0	-44.3	-13.0	-31.3	
6930.00	-9.0	H	3.0	35.7	1.0	-43.7	-13.0	-30.7	
High Ch, 1752.5									
3505.00	-14.5	V	3.0	36.0	1.0	-49.5	-13.0	-36.5	
5257.50	-11.7	V	3.0	35.4	1.0	-46.1	-13.0	-33.1	
7010.00	-10.6	V	3.0	35.7	1.0	-45.3	-13.0	-32.3	
3505.00	-15.3	H	3.0	36.0	1.0	-50.3	-13.0	-37.3	
5257.50	-10.4	H	3.0	35.4	1.0	-44.8	-13.0	-31.8	
7010.00	-9.1	H	3.0	35.7	1.0	-43.8	-13.0	-30.8	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_16QAM Band 4 Harmonics, 3MHz Bandwidth

Band
LTE4
3MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1711.5									
3423.00	-15.5	V	3.0	36.1	1.0	-50.6	-13.0	-37.6	
5134.50	-11.8	V	3.0	35.4	1.0	-46.3	-13.0	-33.3	
6846.00	-11.0	V	3.0	35.7	1.0	-45.7	-13.0	-32.7	
3423.00	-14.9	H	3.0	36.1	1.0	-49.9	-13.0	-36.9	
5134.50	-11.2	H	3.0	35.4	1.0	-45.6	-13.0	-32.6	
6846.00	-10.6	H	3.0	35.7	1.0	-45.2	-13.0	-32.2	
Mid Ch, 1732.5									
3465.00	-14.7	V	3.0	36.0	1.0	-49.8	-13.0	-36.8	
5197.50	-11.1	V	3.0	35.4	1.0	-45.5	-13.0	-32.5	
6930.00	-11.3	V	3.0	35.7	1.0	-45.9	-13.0	-32.9	
3465.00	-15.2	H	3.0	36.0	1.0	-50.2	-13.0	-37.2	
5197.50	-10.3	H	3.0	35.4	1.0	-44.8	-13.0	-31.8	
6930.00	-9.7	H	3.0	35.7	1.0	-44.4	-13.0	-31.4	
High Ch, 1753.5									
3507.00	-14.5	V	3.0	36.0	1.0	-49.5	-13.0	-36.5	
5260.50	-10.7	V	3.0	35.4	1.0	-45.1	-13.0	-32.1	
7014.00	-11.4	V	3.0	35.7	1.0	-46.1	-13.0	-33.1	
3507.00	-14.7	H	3.0	36.0	1.0	-49.7	-13.0	-36.7	
5260.50	-10.3	H	3.0	35.4	1.0	-44.8	-13.0	-31.8	
7014.00	-9.6	H	3.0	35.7	1.0	-44.3	-13.0	-31.3	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_QPSK Band 4 Harmonics, 3MHz Bandwidth

Band
LTE4
3MHz
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, 1711.5									
3423.00	-14.9	V	3.0	36.1	1.0	-50.0	-13.0	-37.0	
5134.50	-11.6	V	3.0	35.4	1.0	-46.1	-13.0	-33.1	
6846.00	-10.9	V	3.0	35.7	1.0	-45.6	-13.0	-32.6	
3423.00	-14.8	H	3.0	36.1	1.0	-49.8	-13.0	-36.8	
5134.50	-10.8	H	3.0	35.4	1.0	-45.3	-13.0	-32.3	
6846.00	-9.7	H	3.0	35.7	1.0	-44.4	-13.0	-31.4	
Mid Ch, 1732.5									
3465.00	-14.4	V	3.0	36.0	1.0	-49.4	-13.0	-36.4	
5197.50	-10.7	V	3.0	35.4	1.0	-45.1	-13.0	-32.1	
6930.00	-10.3	V	3.0	35.7	1.0	-45.0	-13.0	-32.0	
3465.00	-14.6	H	3.0	36.0	1.0	-49.6	-13.0	-36.6	
5197.50	-9.9	H	3.0	35.4	1.0	-44.3	-13.0	-31.3	
6930.00	-9.1	H	3.0	35.7	1.0	-43.8	-13.0	-30.8	
High Ch, 1753.5									
3507.00	-14.4	V	3.0	36.0	1.0	-49.4	-13.0	-36.4	
5260.50	-10.1	V	3.0	35.4	1.0	-44.6	-13.0	-31.6	
7014.00	-11.1	V	3.0	35.7	1.0	-45.8	-13.0	-32.8	
3507.00	-14.5	H	3.0	36.0	1.0	-49.5	-13.0	-36.5	
5260.50	-9.7	H	3.0	35.4	1.0	-44.1	-13.0	-31.1	
7014.00	-9.5	H	3.0	35.7	1.0	-44.1	-13.0	-31.1	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_16QAM Band 4 Harmonics, 1.4MHz Bandwidth

Band
LTE4
1.4MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1710.7									
3421.40	-13.7	V	3.0	36.1	1.0	-48.8	-13.0	-35.8	
5132.10	-13.3	V	3.0	35.4	1.0	-47.7	-13.0	-34.7	
6842.80	-12.0	V	3.0	35.7	1.0	-46.7	-13.0	-33.7	
3421.40	-13.0	H	3.0	36.1	1.0	-48.1	-13.0	-35.1	
5132.10	-12.4	H	3.0	35.4	1.0	-46.8	-13.0	-33.8	
6842.80	-9.0	H	3.0	35.7	1.0	-43.7	-13.0	-30.7	
Mid Ch, 1732.5									
3465.00	-13.5	V	3.0	36.0	1.0	-48.5	-13.0	-35.5	
5197.50	-13.2	V	3.0	35.4	1.0	-47.6	-13.0	-34.6	
6930.00	-13.5	V	3.0	35.7	1.0	-48.2	-13.0	-35.2	
3465.00	-15.1	H	3.0	36.0	1.0	-50.1	-13.0	-37.1	
5197.50	-9.7	H	3.0	35.4	1.0	-44.1	-13.0	-31.1	
6930.00	-9.6	H	3.0	35.7	1.0	-44.3	-13.0	-31.3	
High Ch, 1754.3									
3508.60	-13.5	V	3.0	36.0	1.0	-48.5	-13.0	-35.5	
5262.90	-12.0	V	3.0	35.4	1.0	-46.4	-13.0	-33.4	
7017.20	-9.9	V	3.0	35.7	1.0	-44.6	-13.0	-31.6	
3508.60	-14.0	H	3.0	36.0	1.0	-49.0	-13.0	-36.0	
5262.90	-11.7	H	3.0	35.4	1.0	-46.1	-13.0	-33.1	
7017.20	-8.8	H	3.0	35.7	1.0	-43.5	-13.0	-30.5	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_QPSK Band 4 Harmonics, 1.4MHz Bandwidth

Band
LTE4
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, 1710.7									
3421.40	-13.0	V	3.0	36.1	1.0	-48.1	-13.0	-35.1	
5132.10	-13.1	V	3.0	35.4	1.0	-47.5	-13.0	-34.5	
6842.80	-11.4	V	3.0	35.7	1.0	-46.0	-13.0	-33.0	
3421.40	-12.6	H	3.0	36.1	1.0	-47.7	-13.0	-34.7	
5132.10	-12.1	H	3.0	35.4	1.0	-46.5	-13.0	-33.5	
6842.80	-8.7	H	3.0	35.7	1.0	-43.3	-13.0	-30.3	
Mid Ch, 1732.5									
3465.00	-13.0	V	3.0	36.0	1.0	-48.1	-13.0	-35.1	
5197.50	-12.5	V	3.0	35.4	1.0	-46.9	-13.0	-33.9	
6930.00	-12.0	V	3.0	35.7	1.0	-46.7	-13.0	-33.7	
3465.00	-15.0	H	3.0	36.0	1.0	-50.1	-13.0	-37.1	
5197.50	-10.4	H	3.0	35.4	1.0	-44.8	-13.0	-31.8	
6930.00	-8.5	H	3.0	35.7	1.0	-43.2	-13.0	-30.2	
High Ch, 1754.3									
3508.60	-13.2	V	3.0	36.0	1.0	-48.1	-13.0	-35.1	
5262.90	-11.8	V	3.0	35.4	1.0	-46.2	-13.0	-33.2	
7017.20	-9.5	V	3.0	35.7	1.0	-44.2	-13.0	-31.2	
3508.60	-14.2	H	3.0	36.0	1.0	-49.2	-13.0	-36.2	
5262.90	-10.8	H	3.0	35.4	1.0	-45.2	-13.0	-32.2	
7017.20	-8.2	H	3.0	35.7	1.0	-42.8	-13.0	-29.8	

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LTE Band 5

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_16QAM Band 5 Harmonics, 10MHz Bandwidth

Band
LTE5
10MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 829									
1658.00	-24.5	V	3.0	37.0	1.0	-60.5	-13.0	-47.5	
2487.00	-21.4	V	3.0	36.4	1.0	-56.8	-13.0	-43.8	
3316.00	-21.0	V	3.0	36.2	1.0	-56.2	-13.0	-43.2	
1658.00	-25.2	H	3.0	37.0	1.0	-61.2	-13.0	-48.2	
2487.00	-23.1	H	3.0	36.4	1.0	-58.5	-13.0	-45.5	
3316.00	-20.8	H	3.0	36.2	1.0	-56.0	-13.0	-43.0	
Mid Ch, 836.5									
1673.00	-24.5	V	3.0	37.0	1.0	-60.5	-13.0	-47.5	
2509.50	-20.9	V	3.0	36.4	1.0	-56.3	-13.0	-43.3	
3346.00	-21.1	V	3.0	36.1	1.0	-56.3	-13.0	-43.3	
1673.00	-24.4	H	3.0	37.0	1.0	-60.4	-13.0	-47.4	
2509.50	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	
3346.00	-20.5	H	3.0	36.1	1.0	-55.6	-13.0	-42.6	
High Ch, 844									
1688.00	-24.5	V	3.0	37.0	1.0	-60.5	-13.0	-47.5	
2532.00	-21.0	V	3.0	36.4	1.0	-56.4	-13.0	-43.4	
3376.00	-17.8	V	3.0	36.1	1.0	-52.9	-13.0	-39.9	
1688.00	-24.6	H	3.0	37.0	1.0	-60.5	-13.0	-47.5	
2532.00	-22.6	H	3.0	36.4	1.0	-58.0	-13.0	-45.0	
3376.00	-21.5	H	3.0	36.1	1.0	-56.6	-13.0	-43.6	

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Band

LTE5

10MHz

QPSK

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_QPSK Band 5 Harmonics, 10MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 829									
1658.00	-24.3	V	3.0	37.0	1.0	-60.4	-13.0	-47.4	
2487.00	-21.2	V	3.0	36.4	1.0	-56.6	-13.0	-43.6	
3316.00	-20.6	V	3.0	36.2	1.0	-55.8	-13.0	-42.8	
1658.00	-24.9	H	3.0	37.0	1.0	-61.0	-13.0	-48.0	
2487.00	-22.6	H	3.0	36.4	1.0	-58.0	-13.0	-45.0	
3316.00	-21.7	H	3.0	36.2	1.0	-56.9	-13.0	-43.9	
Mid Ch, 836.5									
1673.00	-24.0	V	3.0	37.0	1.0	-60.1	-13.0	-47.1	
2509.50	-20.7	V	3.0	36.4	1.0	-56.1	-13.0	-43.1	
3346.00	-21.2	V	3.0	36.1	1.0	-56.4	-13.0	-43.4	
1673.00	-24.8	H	3.0	37.0	1.0	-60.8	-13.0	-47.8	
2509.50	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	
3346.00	-21.4	H	3.0	36.1	1.0	-56.5	-13.0	-43.5	
High Ch, 844									
1688.00	-24.7	V	3.0	37.0	1.0	-60.7	-13.0	-47.7	
2532.00	-20.7	V	3.0	36.4	1.0	-56.1	-13.0	-43.1	
3376.00	-21.0	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
1688.00	-24.6	H	3.0	37.0	1.0	-60.6	-13.0	-47.6	
2532.00	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	
3376.00	-21.4	H	3.0	36.1	1.0	-56.5	-13.0	-43.5	

UL VERIFICATION SERVICES INC. FORM NO: CCSUP4701H
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UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_16QAM Band 5 Harmonics, 5MHz Bandwidth

Band
LTE5
5MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.5									
1653.00	-24.7	V	3.0	37.0	1.0	-60.8	-13.0	-47.8	
2479.50	-21.5	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
3306.00	-20.3	V	3.0	36.2	1.0	-55.5	-13.0	-42.5	
1653.00	-25.1	H	3.0	37.0	1.0	-61.1	-13.0	-48.1	
2479.50	-23.1	H	3.0	36.4	1.0	-58.5	-13.0	-45.5	
3306.00	-20.7	H	3.0	36.2	1.0	-55.8	-13.0	-42.8	
Mid Ch, 836.5									
1673.00	-25.0	V	3.0	37.0	1.0	-61.0	-13.0	-48.0	
2509.50	-21.1	V	3.0	36.4	1.0	-56.5	-13.0	-43.5	
3346.00	-20.5	V	3.0	36.1	1.0	-55.6	-13.0	-42.6	
1673.00	-24.2	H	3.0	37.0	1.0	-60.2	-13.0	-47.2	
2509.50	-22.7	H	3.0	36.4	1.0	-58.1	-13.0	-45.1	
3346.00	-19.5	H	3.0	36.1	1.0	-54.6	-13.0	-41.6	
High Ch, 846.5									
1693.00	-25.0	V	3.0	37.0	1.0	-61.0	-13.0	-48.0	
2539.50	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
3386.00	-21.1	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
1693.00	-24.1	H	3.0	37.0	1.0	-60.1	-13.0	-47.1	
2539.50	-22.1	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	
3386.00	-19.4	H	3.0	36.1	1.0	-54.5	-13.0	-41.5	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_QPSK Band 5 Harmonics, 5MHz Bandwidth

Band
LTE5
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, 826.5									
1653.00	-24.5	V	3.0	37.0	1.0	-60.6	-13.0	-47.6	
2479.50	-21.6	V	3.0	36.4	1.0	-57.1	-13.0	-44.1	
3306.00	-20.4	V	3.0	36.2	1.0	-55.6	-13.0	-42.6	
1653.00	-24.6	H	3.0	37.0	1.0	-60.6	-13.0	-47.6	
2479.50	-22.7	H	3.0	36.4	1.0	-58.1	-13.0	-45.1	
3306.00	-20.5	H	3.0	36.2	1.0	-55.7	-13.0	-42.7	
Mid Ch, 836.5									
1673.00	-24.8	V	3.0	37.0	1.0	-60.9	-13.0	-47.9	
2509.50	-20.7	V	3.0	36.4	1.0	-56.1	-13.0	-43.1	
3346.00	-20.4	V	3.0	36.1	1.0	-55.5	-13.0	-42.5	
1673.00	-24.3	H	3.0	37.0	1.0	-60.3	-13.0	-47.3	
2509.50	-22.4	H	3.0	36.4	1.0	-57.8	-13.0	-44.8	
3346.00	-19.6	H	3.0	36.1	1.0	-54.7	-13.0	-41.7	
High Ch, 846.5									
1693.00	-24.7	V	3.0	37.0	1.0	-60.7	-13.0	-47.7	
2539.50	-21.0	V	3.0	36.4	1.0	-56.4	-13.0	-43.4	
3386.00	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7	
1693.00	-24.0	H	3.0	37.0	1.0	-60.0	-13.0	-47.0	
2539.50	-22.1	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	
3386.00	-19.4	H	3.0	36.1	1.0	-54.5	-13.0	-41.5	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_16QAM Band 5 Harmonics, 3MHz Bandwidth

Band
LTE5
3MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 825.5									
1651.00	-24.6	V	3.0	37.0	1.0	-60.6	-13.0	-47.6	
2476.50	-20.1	V	3.0	36.4	1.0	-55.6	-13.0	-42.6	
3302.00	-20.2	V	3.0	36.2	1.0	-55.3	-13.0	-42.3	
1651.00	-24.8	H	3.0	37.0	1.0	-60.8	-13.0	-47.8	
2476.50	-22.1	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	
3302.00	-20.7	H	3.0	36.2	1.0	-55.9	-13.0	-42.9	
Mid Ch, 836.5									
1673.00	-24.6	V	3.0	37.0	1.0	-60.6	-13.0	-47.6	
2509.50	-20.0	V	3.0	36.4	1.0	-55.4	-13.0	-42.4	
3346.00	-21.0	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
1673.00	-24.5	H	3.0	37.0	1.0	-60.5	-13.0	-47.5	
2509.50	-22.0	H	3.0	36.4	1.0	-57.4	-13.0	-44.4	
3346.00	-20.0	H	3.0	36.1	1.0	-55.1	-13.0	-42.1	
High Ch, 847.5									
1695.00	-24.4	V	3.0	37.0	1.0	-60.4	-13.0	-47.4	
2542.50	-20.1	V	3.0	36.4	1.0	-55.5	-13.0	-42.5	
3390.00	-20.1	V	3.0	36.1	1.0	-55.2	-13.0	-42.2	
1695.00	-24.4	H	3.0	37.0	1.0	-60.3	-13.0	-47.3	
2542.50	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	
3390.00	-20.3	H	3.0	36.1	1.0	-55.4	-13.0	-42.4	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_QPSK Band 5 Harmonics, 3MHz Bandwidth

Band
LTE5
3MHz
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, 825.5									
1651.00	-24.3	V	3.0	37.0	1.0	-60.4	-13.0	-47.4	
2476.50	-20.0	V	3.0	36.4	1.0	-55.5	-13.0	-42.5	
3302.00	-20.4	V	3.0	36.2	1.0	-55.5	-13.0	-42.5	
1651.00	-24.6	H	3.0	37.0	1.0	-60.7	-13.0	-47.7	
2476.50	-22.1	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	
3302.00	-20.4	H	3.0	36.2	1.0	-55.6	-13.0	-42.6	
Mid Ch, 836.5									
1673.00	-24.1	V	3.0	37.0	1.0	-60.1	-13.0	-47.1	
2509.50	-19.8	V	3.0	36.4	1.0	-55.2	-13.0	-42.2	
3346.00	-21.0	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
1673.00	-24.4	H	3.0	37.0	1.0	-60.4	-13.0	-47.4	
2509.50	-22.3	H	3.0	36.4	1.0	-57.7	-13.0	-44.7	
3346.00	-20.5	H	3.0	36.1	1.0	-55.6	-13.0	-42.6	
High Ch, 847.5									
1695.00	-24.3	V	3.0	37.0	1.0	-60.3	-13.0	-47.3	
2542.50	-20.1	V	3.0	36.4	1.0	-55.6	-13.0	-42.6	
3390.00	-20.3	V	3.0	36.1	1.0	-55.4	-13.0	-42.4	
1695.00	-24.1	H	3.0	37.0	1.0	-60.1	-13.0	-47.1	
2542.50	-22.2	H	3.0	36.4	1.0	-57.6	-13.0	-44.6	
3390.00	-20.1	H	3.0	36.1	1.0	-55.2	-13.0	-42.2	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_16QAM Band 5 Harmonics, 1.4MHz Bandwidth

Band
LTE5
1.4MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7									
1649.40	-24.9	V	3.0	37.1	1.0	-61.0	-13.0	-48.0	
2474.10	-19.8	V	3.0	36.4	1.0	-55.3	-13.0	-42.3	
3298.80	-20.3	V	3.0	36.2	1.0	-55.4	-13.0	-42.4	
1649.40	-25.2	H	3.0	37.1	1.0	-61.3	-13.0	-48.3	
2474.10	-21.0	H	3.0	36.4	1.0	-56.4	-13.0	-43.4	
3298.80	-20.6	H	3.0	36.2	1.0	-55.8	-13.0	-42.8	
Mid Ch, 836.5									
1673.00	-24.0	V	3.0	37.0	1.0	-60.0	-13.0	-47.0	
2509.50	-19.3	V	3.0	36.4	1.0	-54.7	-13.0	-41.7	
3346.00	-19.4	V	3.0	36.1	1.0	-54.6	-13.0	-41.6	
1673.00	-24.2	H	3.0	37.0	1.0	-60.2	-13.0	-47.2	
2509.50	-20.9	H	3.0	36.4	1.0	-56.3	-13.0	-43.3	
3346.00	-19.8	H	3.0	36.1	1.0	-54.9	-13.0	-41.9	
High Ch, 848.3									
1696.60	-24.2	V	3.0	37.0	1.0	-60.1	-13.0	-47.1	
2544.90	-19.5	V	3.0	36.4	1.0	-54.9	-13.0	-41.9	
3393.20	-19.5	V	3.0	36.1	1.0	-54.6	-13.0	-41.6	
1696.60	-24.4	H	3.0	37.0	1.0	-60.4	-13.0	-47.4	
2544.90	-20.6	H	3.0	36.4	1.0	-56.0	-13.0	-43.0	
3393.20	-20.1	H	3.0	36.1	1.0	-55.1	-13.0	-42.1	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: 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	-24.5	V	3.0	37.1	1.0	-60.6	-13.0	-47.6	
2474.10	-19.6	V	3.0	36.4	1.0	-55.0	-13.0	-42.0	
3298.80	-20.0	V	3.0	36.2	1.0	-55.2	-13.0	-42.2	
1649.40	-25.0	H	3.0	37.1	1.0	-61.1	-13.0	-48.1	
2474.10	-20.5	H	3.0	36.4	1.0	-56.0	-13.0	-43.0	
3298.80	-20.6	H	3.0	36.2	1.0	-55.7	-13.0	-42.7	
Mid Ch, 836.5									
1673.00	-24.3	V	3.0	37.0	1.0	-60.3	-13.0	-47.3	
2509.50	-19.3	V	3.0	36.4	1.0	-54.7	-13.0	-41.7	
3346.00	-19.9	V	3.0	36.1	1.0	-55.1	-13.0	-42.1	
1673.00	-24.7	H	3.0	37.0	1.0	-60.7	-13.0	-47.7	
2509.50	-20.4	H	3.0	36.4	1.0	-55.8	-13.0	-42.8	
3346.00	-20.1	H	3.0	36.1	1.0	-55.2	-13.0	-42.2	
High Ch, 848.3									
1696.60	-24.3	V	3.0	37.0	1.0	-60.3	-13.0	-47.3	
2544.90	-19.4	V	3.0	36.4	1.0	-54.8	-13.0	-41.8	
3393.20	-20.1	V	3.0	36.1	1.0	-55.1	-13.0	-42.1	
1696.60	-24.8	H	3.0	37.0	1.0	-60.7	-13.0	-47.7	
2544.90	-20.4	H	3.0	36.4	1.0	-55.8	-13.0	-42.8	
3393.20	-20.3	H	3.0	36.1	1.0	-55.3	-13.0	-42.3	

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LTE Band 7

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

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_16QAM Band 7 Harmonics, 20MHz Bandwidth

Band

LTE7

20MHz

16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2510									
5020.00	-17.1	V	3.0	35.5	1.0	-51.5	-25.0	-26.5	
7530.00	-13.5	V	3.0	35.7	1.0	-48.2	-25.0	-23.2	
10040.00	-9.6	V	3.0	36.0	1.0	-44.6	-25.0	-19.6	
5020.00	-15.7	H	3.0	35.5	1.0	-50.1	-25.0	-25.1	
7530.00	-11.0	H	3.0	35.7	1.0	-45.7	-25.0	-20.7	
10040.00	-9.3	H	3.0	36.0	1.0	-44.3	-25.0	-19.3	
Mid Ch, 2535									
5070.00	-17.0	V	3.0	35.4	1.0	-51.5	-25.0	-26.5	
7605.00	-12.9	V	3.0	35.8	1.0	-47.7	-25.0	-22.7	
10140.00	-9.7	V	3.0	36.0	1.0	-44.6	-25.0	-19.6	
5070.00	-16.2	H	3.0	35.4	1.0	-50.7	-25.0	-25.7	
7605.00	-11.9	H	3.0	35.8	1.0	-46.6	-25.0	-21.6	
10140.00	-9.0	H	3.0	36.0	1.0	-44.0	-25.0	-19.0	
High Ch, 2560									
5120.00	-16.2	V	3.0	35.4	1.0	-50.7	-25.0	-25.7	
7680.00	-12.1	V	3.0	35.8	1.0	-46.9	-25.0	-21.9	
10240.00	-6.2	V	3.0	35.9	1.0	-41.1	-25.0	-16.1	
5120.00	-16.1	H	3.0	35.4	1.0	-50.5	-25.0	-25.5	
7680.00	-10.7	H	3.0	35.8	1.0	-45.5	-25.0	-20.5	
10240.00	-7.7	H	3.0	35.9	1.0	-42.7	-25.0	-17.7	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_QPSK Band 7 Harmonics, 20MHz Bandwidth

Band

LTE7

20MHz

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, 2510									
5020.00	-17.0	V	3.0	35.5	1.0	-51.5	-25.0	-26.5	
7530.00	-12.9	V	3.0	35.7	1.0	-47.7	-25.0	-22.7	
10040.00	-9.8	V	3.0	36.0	1.0	-44.8	-25.0	-19.8	
5020.00	-16.0	H	3.0	35.5	1.0	-50.5	-25.0	-25.5	
7530.00	-11.5	H	3.0	35.7	1.0	-46.2	-25.0	-21.2	
10040.00	-9.5	H	3.0	36.0	1.0	-44.5	-25.0	-19.5	
Mid Ch, 2535									
5070.00	-16.9	V	3.0	35.4	1.0	-51.4	-25.0	-26.4	
7605.00	-13.1	V	3.0	35.8	1.0	-47.9	-25.0	-22.9	
10140.00	-9.8	V	3.0	36.0	1.0	-44.8	-25.0	-19.8	
5070.00	-16.2	H	3.0	35.4	1.0	-50.6	-25.0	-25.6	
7605.00	-11.5	H	3.0	35.8	1.0	-46.2	-25.0	-21.2	
10140.00	-9.3	H	3.0	36.0	1.0	-44.2	-25.0	-19.2	
High Ch, 2560									
5120.00	-15.9	V	3.0	35.4	1.0	-50.4	-25.0	-25.4	
7680.00	-12.2	V	3.0	35.8	1.0	-47.0	-25.0	-22.0	
10240.00	-6.4	V	3.0	35.9	1.0	-41.4	-25.0	-16.4	
5120.00	-15.9	H	3.0	35.4	1.0	-50.3	-25.0	-25.3	
7680.00	-11.1	H	3.0	35.8	1.0	-45.8	-25.0	-20.8	
10240.00	-8.1	H	3.0	35.9	1.0	-43.0	-25.0	-18.0	

UL VERIFICATION SERVICES INC. FORM NO: CCSUP4701H
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UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_16QAM Band 7 Harmonics, 15MHz Bandwidth

Band

LTE7

15MHz

16QAM

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	-17.1	V	3.0	35.5	1.0	-51.6	-25.0	-26.6	
7522.50	-12.6	V	3.0	35.7	1.0	-47.3	-25.0	-22.3	
10030.00	-10.4	V	3.0	36.0	1.0	-45.4	-25.0	-20.4	
5015.00	-16.2	H	3.0	35.5	1.0	-50.7	-25.0	-25.7	
7522.50	-10.6	H	3.0	35.7	1.0	-45.4	-25.0	-20.4	
10030.00	-9.3	H	3.0	36.0	1.0	-44.3	-25.0	-19.3	
Mid Ch, 2535									
5070.00	-17.1	V	3.0	35.4	1.0	-51.6	-25.0	-26.6	
7605.00	-12.5	V	3.0	35.8	1.0	-47.3	-25.0	-22.3	
10140.00	-10.3	V	3.0	36.0	1.0	-45.3	-25.0	-20.3	
5070.00	-16.0	H	3.0	35.4	1.0	-50.5	-25.0	-25.5	
7605.00	-11.3	H	3.0	35.8	1.0	-46.1	-25.0	-21.1	
10140.00	-9.5	H	3.0	36.0	1.0	-44.5	-25.0	-19.5	
High Ch, 2562.5									
5125.00	-16.7	V	3.0	35.4	1.0	-51.1	-25.0	-26.1	
7687.50	-11.0	V	3.0	35.8	1.0	-45.8	-25.0	-20.8	
10250.00	-5.9	V	3.0	35.9	1.0	-40.8	-25.0	-15.8	
5125.00	-16.1	H	3.0	35.4	1.0	-50.5	-25.0	-25.5	
7687.50	-10.6	H	3.0	35.8	1.0	-45.3	-25.0	-20.3	
10250.00	-9.4	H	3.0	35.9	1.0	-44.3	-25.0	-19.3	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_QPSK Band 7 Harmonics, 15MHz Bandwidth

Band

LTE7

15MHz

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, 2507.5									
5015.00	-17.0	V	3.0	35.5	1.0	-51.4	-25.0	-26.4	
7522.50	-12.6	V	3.0	35.7	1.0	-47.3	-25.0	-22.3	
10030.00	-10.4	V	3.0	36.0	1.0	-45.4	-25.0	-20.4	
5015.00	-16.3	H	3.0	35.5	1.0	-50.8	-25.0	-25.8	
7522.50	-10.5	H	3.0	35.7	1.0	-45.2	-25.0	-20.2	
10030.00	-9.5	H	3.0	36.0	1.0	-44.5	-25.0	-19.5	
Mid Ch, 2535									
5070.00	-16.0	V	3.0	35.4	1.0	-50.4	-25.0	-25.4	
7605.00	-12.0	V	3.0	35.8	1.0	-46.7	-25.0	-21.7	
10140.00	-10.3	V	3.0	36.0	1.0	-45.3	-25.0	-20.3	
5070.00	-15.2	H	3.0	35.4	1.0	-49.6	-25.0	-24.6	
7605.00	-11.2	H	3.0	35.8	1.0	-45.9	-25.0	-20.9	
10140.00	-9.3	H	3.0	36.0	1.0	-44.3	-25.0	-19.3	
High Ch, 2562.5									
5125.00	-15.5	V	3.0	35.4	1.0	-49.9	-25.0	-24.9	
7687.50	-12.1	V	3.0	35.8	1.0	-46.9	-25.0	-21.9	
10250.00	-5.2	V	3.0	35.9	1.0	-40.1	-25.0	-15.1	
5125.00	-15.6	H	3.0	35.4	1.0	-50.1	-25.0	-25.1	
7687.50	-11.0	H	3.0	35.8	1.0	-45.7	-25.0	-20.7	
10250.00	-9.1	H	3.0	35.9	1.0	-44.0	-25.0	-19.0	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_16QAM Band 7 Harmonics, 10MHz Bandwidth

Band

LTE7

10MHz

16QAM

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	-16.9	V	3.0	35.5	1.0	-51.4	-25.0	-26.4	
7515.00	-12.8	V	3.0	35.7	1.0	-47.6	-25.0	-22.6	
10020.00	-10.2	V	3.0	36.0	1.0	-45.3	-25.0	-20.3	
5010.00	-16.2	H	3.0	35.5	1.0	-50.7	-25.0	-25.7	
7515.00	-10.4	H	3.0	35.7	1.0	-45.2	-25.0	-20.2	
10020.00	-9.4	H	3.0	36.0	1.0	-44.4	-25.0	-19.4	
Mid Ch, 2535									
5070.00	-17.4	V	3.0	35.4	1.0	-51.9	-25.0	-26.9	
7605.00	-13.0	V	3.0	35.8	1.0	-47.7	-25.0	-22.7	
10140.00	-9.0	V	3.0	36.0	1.0	-44.0	-25.0	-19.0	
5070.00	-16.4	H	3.0	35.4	1.0	-50.9	-25.0	-25.9	
7605.00	-11.7	H	3.0	35.8	1.0	-46.5	-25.0	-21.5	
10140.00	-9.9	H	3.0	36.0	1.0	-44.9	-25.0	-19.9	
High Ch, 2565									
5130.00	-15.4	V	3.0	35.4	1.0	-49.9	-25.0	-24.9	
7695.00	-11.2	V	3.0	35.8	1.0	-46.0	-25.0	-21.0	
10260.00	-5.6	V	3.0	35.9	1.0	-40.5	-25.0	-15.5	
5130.00	-15.7	H	3.0	35.4	1.0	-50.1	-25.0	-25.1	
7695.00	-10.7	H	3.0	35.8	1.0	-45.5	-25.0	-20.5	
10260.00	-8.1	H	3.0	35.9	1.0	-43.0	-25.0	-18.0	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_QPSK Band 7 Harmonics, 10MHz Bandwidth

Band
LTE7
10MHz
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, 2505									
5010.00	-16.9	V	3.0	35.5	1.0	-51.3	-25.0	-26.3	
7515.00	-13.0	V	3.0	35.7	1.0	-47.7	-25.0	-22.7	
10020.00	-9.5	V	3.0	36.0	1.0	-44.6	-25.0	-19.6	
5010.00	-16.1	H	3.0	35.5	1.0	-50.5	-25.0	-25.5	
7515.00	-10.1	H	3.0	35.7	1.0	-44.8	-25.0	-19.8	
10020.00	-9.3	H	3.0	36.0	1.0	-44.3	-25.0	-19.3	
Mid Ch, 2535									
5070.00	-16.9	V	3.0	35.4	1.0	-51.3	-25.0	-26.3	
7605.00	-12.6	V	3.0	35.8	1.0	-47.4	-25.0	-22.4	
10140.00	-9.3	V	3.0	36.0	1.0	-44.2	-25.0	-19.2	
5070.00	-16.2	H	3.0	35.4	1.0	-50.7	-25.0	-25.7	
7605.00	-11.9	H	3.0	35.8	1.0	-46.7	-25.0	-21.7	
10140.00	-9.7	H	3.0	36.0	1.0	-44.7	-25.0	-19.7	
High Ch, 2565									
5130.00	-15.7	V	3.0	35.4	1.0	-50.1	-25.0	-25.1	
7695.00	-11.8	V	3.0	35.8	1.0	-46.5	-25.0	-21.5	
10260.00	-5.9	V	3.0	35.9	1.0	-40.8	-25.0	-15.8	
5130.00	-15.3	H	3.0	35.4	1.0	-49.7	-25.0	-24.7	
7695.00	-10.4	H	3.0	35.8	1.0	-45.2	-25.0	-20.2	
10260.00	-8.5	H	3.0	35.9	1.0	-43.4	-25.0	-18.4	

UL VERIFICATION SERVICES INC. FORM NO: CCSUP4701H
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UL Verification Services, Inc.
Above 1GHz High Frequency Substitution Measurement

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_16QAM Band 7 Harmonics, 5MHz Bandwidth

Band

LTE7

5MHz

16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2502.5									
5005.00	-16.9	V	3.0	35.5	1.0	-51.4	-25.0	-26.4	
7507.50	-12.4	V	3.0	35.7	1.0	-47.2	-25.0	-22.2	
10010.00	-10.5	V	3.0	36.0	1.0	-45.6	-25.0	-20.6	
5005.00	-15.9	H	3.0	35.5	1.0	-50.4	-25.0	-25.4	
7507.50	-10.3	H	3.0	35.7	1.0	-45.0	-25.0	-20.0	
10010.00	-9.8	H	3.0	36.0	1.0	-44.8	-25.0	-19.8	
Mid Ch, 2535									
5070.00	-16.2	V	3.0	35.4	1.0	-50.6	-25.0	-25.6	
7605.00	-11.7	V	3.0	35.8	1.0	-46.5	-25.0	-21.5	
10140.00	-9.7	V	3.0	36.0	1.0	-44.6	-25.0	-19.6	
5070.00	-16.3	H	3.0	35.4	1.0	-50.8	-25.0	-25.8	
7605.00	-11.7	H	3.0	35.8	1.0	-46.5	-25.0	-21.5	
10140.00	-9.6	H	3.0	36.0	1.0	-44.6	-25.0	-19.6	
High Ch, 2567.5									
5135.00	-15.6	V	3.0	35.4	1.0	-50.0	-25.0	-25.0	
7702.50	-11.1	V	3.0	35.8	1.0	-45.8	-25.0	-20.8	
10270.00	-4.1	V	3.0	35.9	1.0	-39.0	-25.0	-14.0	
5135.00	-15.0	H	3.0	35.4	1.0	-49.5	-25.0	-24.5	
7702.50	-10.0	H	3.0	35.8	1.0	-44.7	-25.0	-19.7	
10270.00	-7.9	H	3.0	35.9	1.0	-42.8	-25.0	-17.8	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_QPSK Band 7 Harmonics, 5MHz Bandwidth

Band

LTE7

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, 2502.5									
5005.00	-17.1	V	3.0	35.5	1.0	-51.6	-25.0	-26.6	
7507.50	-13.1	V	3.0	35.7	1.0	-47.9	-25.0	-22.9	
10010.00	-9.8	V	3.0	36.0	1.0	-44.8	-25.0	-19.8	
5005.00	-16.1	H	3.0	35.5	1.0	-50.5	-25.0	-25.5	
7507.50	-10.2	H	3.0	35.7	1.0	-44.9	-25.0	-19.9	
10010.00	-10.0	H	3.0	36.0	1.0	-45.0	-25.0	-20.0	
Mid Ch, 2535									
5070.00	-17.5	V	3.0	35.4	1.0	-51.9	-25.0	-26.9	
7605.00	-11.9	V	3.0	35.8	1.0	-46.7	-25.0	-21.7	
10140.00	-9.5	V	3.0	36.0	1.0	-44.5	-25.0	-19.5	
5070.00	-16.1	H	3.0	35.4	1.0	-50.6	-25.0	-25.6	
7605.00	-11.5	H	3.0	35.8	1.0	-46.2	-25.0	-21.2	
10140.00	-9.6	H	3.0	36.0	1.0	-44.6	-25.0	-19.6	
High Ch, 2567.5									
5135.00	-14.8	V	3.0	35.4	1.0	-49.3	-25.0	-24.3	
7702.50	-10.8	V	3.0	35.8	1.0	-45.6	-25.0	-20.6	
10270.00	-2.6	V	3.0	35.9	1.0	-37.5	-25.0	-12.5	
5135.00	-13.7	H	3.0	35.4	1.0	-48.1	-25.0	-23.1	
7702.50	-9.2	H	3.0	35.8	1.0	-44.0	-25.0	-19.0	
10270.00	-7.0	H	3.0	35.9	1.0	-41.9	-25.0	-16.9	

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LTE Band 17

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + Charger + Headset
Location: Chamber C
Mode: LTE_16QAM Band 17 Harmonics, 10MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 709									
LTE17	1418.00	-28.7	V	3.0	37.4	1.0	-65.1	-13.0	-52.1	
	2127.00	-20.3	V	3.0	36.6	1.0	-55.9	-13.0	-42.9	
10MHz	2836.00	-18.2	V	3.0	36.4	1.0	-53.6	-13.0	-40.6	
	1418.00	-27.5	H	3.0	37.4	1.0	-63.9	-13.0	-50.9	
16QAM	2127.00	-21.6	H	3.0	36.6	1.0	-57.1	-13.0	-44.1	
	2836.00	-18.9	H	3.0	36.4	1.0	-54.2	-13.0	-41.2	
	Mid Ch, 710									
	1420.00	-27.8	V	3.0	37.3	1.0	-64.2	-13.0	-51.2	
	2130.00	-20.4	V	3.0	36.6	1.0	-55.9	-13.0	-42.9	
	2840.00	-18.8	V	3.0	36.4	1.0	-54.2	-13.0	-41.2	
	1420.00	-27.7	H	3.0	37.3	1.0	-64.0	-13.0	-51.0	
	2130.00	-21.4	H	3.0	36.6	1.0	-56.9	-13.0	-43.9	
	2840.00	-19.4	H	3.0	36.4	1.0	-54.8	-13.0	-41.8	
	High Ch, 711									
	1422.00	-27.7	V	3.0	37.3	1.0	-64.1	-13.0	-51.1	
	2133.00	-20.9	V	3.0	36.6	1.0	-56.5	-13.0	-43.5	
	2844.00	-19.0	V	3.0	36.4	1.0	-54.4	-13.0	-41.4	
	1422.00	-27.8	H	3.0	37.3	1.0	-64.1	-13.0	-51.1	
	2133.00	-21.4	H	3.0	36.6	1.0	-57.0	-13.0	-44.0	
	2844.00	-19.0	H	3.0	36.4	1.0	-54.4	-13.0	-41.4	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + Charger + Headset
Location: Chamber C
Mode: LTE_QPSK Band 17 Harmonics, 10MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 709									
LTE17	1418.00	-27.0	V	3.0	37.4	1.0	-63.4	-13.0	-50.4	
	2127.00	-20.7	V	3.0	36.6	1.0	-56.2	-13.0	-43.2	
10MHz	2836.00	-19.2	V	3.0	36.4	1.0	-54.6	-13.0	-41.6	
	1418.00	-27.4	H	3.0	37.4	1.0	-63.8	-13.0	-50.8	
QPSK	2127.00	-21.3	H	3.0	36.6	1.0	-56.8	-13.0	-43.8	
	2836.00	-19.8	H	3.0	36.4	1.0	-55.2	-13.0	-42.2	
	Mid Ch, 710									
	1420.00	-27.7	V	3.0	37.3	1.0	-64.1	-13.0	-51.1	
	2130.00	-20.4	V	3.0	36.6	1.0	-55.9	-13.0	-42.9	
	2840.00	-19.2	V	3.0	36.4	1.0	-54.6	-13.0	-41.6	
	1420.00	-27.8	H	3.0	37.3	1.0	-64.2	-13.0	-51.2	
	2130.00	-21.4	H	3.0	36.6	1.0	-56.9	-13.0	-43.9	
	2840.00	-19.7	H	3.0	36.4	1.0	-55.1	-13.0	-42.1	
	High Ch, 711									
	1422.00	-28.1	V	3.0	37.3	1.0	-64.5	-13.0	-51.5	
	2133.00	-20.5	V	3.0	36.6	1.0	-56.0	-13.0	-43.0	
	2844.00	-19.0	V	3.0	36.4	1.0	-54.3	-13.0	-41.3	
	1422.00	-27.9	H	3.0	37.3	1.0	-64.2	-13.0	-51.2	
	2133.00	-20.9	H	3.0	36.6	1.0	-56.4	-13.0	-43.4	
	2844.00	-19.9	H	3.0	36.4	1.0	-55.3	-13.0	-42.3	

UL VERIFICATION SERVICES INC. FORM NO: CCSUP4701H
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UL Verification Services, Inc
Above 1GHz High Frequency Substitution Measurement

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + Charger + Headset
Location: Chamber C
Mode: LTE_16QAM Band 17 Harmonics, 5MHz Bandwidth

Band
LTE17
5MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 706.5									
1413.00	-26.8	V	3.0	37.4	1.0	-63.1	-13.0	-50.1	
2119.50	-20.3	V	3.0	36.6	1.0	-55.9	-13.0	-42.9	
2826.00	-18.0	V	3.0	36.4	1.0	-53.4	-13.0	-40.4	
1413.00	-27.9	H	3.0	37.4	1.0	-64.3	-13.0	-51.3	
2119.50	-21.4	H	3.0	36.6	1.0	-56.9	-13.0	-43.9	
2826.00	-18.6	H	3.0	36.4	1.0	-54.0	-13.0	-41.0	
Mid Ch, 710									
1420.00	-27.9	V	3.0	37.3	1.0	-64.3	-13.0	-51.3	
2130.00	-20.4	V	3.0	36.6	1.0	-56.0	-13.0	-43.0	
2840.00	-18.2	V	3.0	36.4	1.0	-53.5	-13.0	-40.5	
1420.00	-27.5	H	3.0	37.3	1.0	-63.8	-13.0	-50.8	
2130.00	-20.4	H	3.0	36.6	1.0	-56.0	-13.0	-43.0	
2840.00	-19.0	H	3.0	36.4	1.0	-54.4	-13.0	-41.4	
High Ch, 713.5									
1427.00	-27.2	V	3.0	37.3	1.0	-63.5	-13.0	-50.5	
2140.50	-18.8	V	3.0	36.6	1.0	-54.4	-13.0	-41.4	
2854.00	-19.1	V	3.0	36.4	1.0	-54.5	-13.0	-41.5	
1427.00	-27.7	H	3.0	37.3	1.0	-64.0	-13.0	-51.0	
2140.50	-20.5	H	3.0	36.6	1.0	-56.0	-13.0	-43.0	
2854.00	-19.7	H	3.0	36.4	1.0	-55.1	-13.0	-42.1	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + Charger + Headset
Location: Chamber C
Mode: LTE_QPSK Band 17 Harmonics, 5MHz Bandwidth

Band
LTE17
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, 706.5									
1413.00	-27.9	V	3.0	37.4	1.0	-64.2	-13.0	-51.2	
2119.50	-20.4	V	3.0	36.6	1.0	-56.0	-13.0	-43.0	
2826.00	-19.0	V	3.0	36.4	1.0	-54.4	-13.0	-41.4	
1413.00	-27.6	H	3.0	37.4	1.0	-64.0	-13.0	-51.0	
2119.50	-21.7	H	3.0	36.6	1.0	-57.3	-13.0	-44.3	
2826.00	-19.5	H	3.0	36.4	1.0	-54.9	-13.0	-41.9	
Mid Ch, 710									
1420.00	-28.1	V	3.0	37.3	1.0	-64.4	-13.0	-51.4	
2130.00	-20.4	V	3.0	36.6	1.0	-55.9	-13.0	-42.9	
2840.00	-18.8	V	3.0	36.4	1.0	-54.2	-13.0	-41.2	
1420.00	-27.7	H	3.0	37.3	1.0	-64.0	-13.0	-51.0	
2130.00	-21.2	H	3.0	36.6	1.0	-56.7	-13.0	-43.7	
2840.00	-19.7	H	3.0	36.4	1.0	-55.1	-13.0	-42.1	
High Ch, 713.5									
1427.00	-26.9	V	3.0	37.3	1.0	-63.2	-13.0	-50.2	
2140.50	-20.6	V	3.0	36.6	1.0	-56.2	-13.0	-43.2	
2854.00	-19.8	V	3.0	36.4	1.0	-55.2	-13.0	-42.2	
1427.00	-26.7	H	3.0	37.3	1.0	-63.0	-13.0	-50.0	
2140.50	-21.8	H	3.0	36.6	1.0	-57.3	-13.0	-44.3	
2854.00	-19.4	H	3.0	36.4	1.0	-54.8	-13.0	-41.8	

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LTE Band 26

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_16QAM Band 26 Harmonics, 15MHz Bandwidth

Band
LTE26
15MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Mid Ch, 831.5									
1663.00	-25.3	V	3.0	37.0	1.0	-61.3	-13.0	-48.3	
2494.50	-18.9	V	3.0	36.4	1.0	-54.3	-13.0	-41.3	
3326.00	-19.8	V	3.0	36.2	1.0	-54.9	-13.0	-41.9	
1663.00	-25.2	H	3.0	37.0	1.0	-61.3	-13.0	-48.3	
2494.50	-21.1	H	3.0	36.4	1.0	-56.6	-13.0	-43.6	
3326.00	-20.3	H	3.0	36.2	1.0	-55.5	-13.0	-42.5	
Mid Ch, 836.5									
1673.00	-25.6	V	3.0	37.0	1.0	-61.6	-13.0	-48.6	
2509.50	-19.2	V	3.0	36.4	1.0	-54.6	-13.0	-41.6	
3346.00	-19.9	V	3.0	36.1	1.0	-55.0	-13.0	-42.0	
1673.00	-26.2	H	3.0	37.0	1.0	-62.2	-13.0	-49.2	
2509.50	-21.2	H	3.0	36.4	1.0	-56.6	-13.0	-43.6	
3346.00	-19.5	H	3.0	36.1	1.0	-54.6	-13.0	-41.6	
High Ch, 841.5									
1683.00	-25.6	V	3.0	37.0	1.0	-61.6	-13.0	-48.6	
2524.50	-19.2	V	3.0	36.4	1.0	-54.6	-13.0	-41.6	
3366.00	-19.8	V	3.0	36.1	1.0	-54.9	-13.0	-41.9	
1683.00	-25.3	H	3.0	37.0	1.0	-61.3	-13.0	-48.3	
2524.50	-20.9	H	3.0	36.4	1.0	-56.3	-13.0	-43.3	
3366.00	-19.4	H	3.0	36.1	1.0	-54.5	-13.0	-41.5	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_QPSK Band 26 Harmonics, 15MHz Bandwidth

Band
LTE26
15MHz
QPSK

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Mid Ch, 831.5									
1663.00	-25.0	V	3.0	37.0	1.0	-61.1	-13.0	-48.1	
2494.50	-19.0	V	3.0	36.4	1.0	-54.4	-13.0	-41.4	
3326.00	-19.8	V	3.0	36.2	1.0	-54.9	-13.0	-41.9	
1663.00	-25.3	H	3.0	37.0	1.0	-61.3	-13.0	-48.3	
2494.50	-20.9	H	3.0	36.4	1.0	-56.4	-13.0	-43.4	
3326.00	-20.1	H	3.0	36.2	1.0	-55.3	-13.0	-42.3	
Mid Ch, 836.5									
1673.00	-25.2	V	3.0	37.0	1.0	-61.3	-13.0	-48.3	
2509.50	-19.0	V	3.0	36.4	1.0	-54.4	-13.0	-41.4	
3346.00	-19.4	V	3.0	36.1	1.0	-54.5	-13.0	-41.5	
1673.00	-25.4	H	3.0	37.0	1.0	-61.4	-13.0	-48.4	
2509.50	-21.1	H	3.0	36.4	1.0	-56.5	-13.0	-43.5	
3346.00	-19.8	H	3.0	36.1	1.0	-55.0	-13.0	-42.0	
High Ch, 841.5									
1683.00	-25.2	V	3.0	37.0	1.0	-61.2	-13.0	-48.2	
2524.50	-18.9	V	3.0	36.4	1.0	-54.3	-13.0	-41.3	
3366.00	-19.5	V	3.0	36.1	1.0	-54.6	-13.0	-41.6	
1683.00	-24.9	H	3.0	37.0	1.0	-60.9	-13.0	-47.9	
2524.50	-21.0	H	3.0	36.4	1.0	-56.4	-13.0	-43.4	
3366.00	-18.9	H	3.0	36.1	1.0	-54.0	-13.0	-41.0	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_16QAM Band 26 Harmonics, 10MHz Bandwidth

Band
LTE26
10MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 819									
1638.00	-24.5	V	3.0	37.0	1.0	-60.5	-13.0	-47.5	
2457.00	-18.8	V	3.0	36.4	1.0	-54.2	-13.0	-41.2	
3276.00	-19.8	V	3.0	36.2	1.0	-54.9	-13.0	-41.9	
1638.00	-26.0	H	3.0	37.0	1.0	-62.0	-13.0	-49.0	
2457.00	-21.0	H	3.0	36.4	1.0	-56.5	-13.0	-43.5	
3276.00	-20.1	H	3.0	36.2	1.0	-55.3	-13.0	-42.3	
Mid Ch, 831.5									
1663.00	-24.4	V	3.0	37.0	1.0	-60.4	-13.0	-47.4	
2494.50	-19.0	V	3.0	36.4	1.0	-54.4	-13.0	-41.4	
3326.00	-19.7	V	3.0	36.1	1.0	-54.9	-13.0	-41.9	
1663.00	-25.3	H	3.0	37.0	1.0	-61.3	-13.0	-48.3	
2494.50	-21.0	H	3.0	36.4	1.0	-56.4	-13.0	-43.4	
3326.00	-19.8	H	3.0	36.1	1.0	-55.0	-13.0	-42.0	
High Ch, 844									
1688.00	-24.8	V	3.0	37.0	1.0	-60.8	-13.0	-47.8	
2532.00	-18.4	V	3.0	36.4	1.0	-53.8	-13.0	-40.8	
3376.00	-20.2	V	3.0	36.1	1.0	-55.3	-13.0	-42.3	
1688.00	-25.2	H	3.0	37.0	1.0	-61.2	-13.0	-48.2	
2532.00	-20.6	H	3.0	36.4	1.0	-56.0	-13.0	-43.0	
3376.00	-20.3	H	3.0	36.1	1.0	-55.4	-13.0	-42.4	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_QPSK Band 26 Harmonics, 10MHz Bandwidth

Band
LTE26
10MHz
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, 819									
1638.00	-24.7	V	3.0	37.0	1.0	-60.7	-13.0	-47.7	
2457.00	-18.7	V	3.0	36.4	1.0	-54.1	-13.0	-41.1	
3276.00	-19.9	V	3.0	36.2	1.0	-55.1	-13.0	-42.1	
1638.00	-25.5	H	3.0	37.0	1.0	-61.5	-13.0	-48.5	
2457.00	-20.5	H	3.0	36.4	1.0	-56.0	-13.0	-43.0	
3276.00	-20.3	H	3.0	36.2	1.0	-55.5	-13.0	-42.5	
Mid Ch, 831.5									
1663.00	-24.9	V	3.0	37.0	1.0	-60.9	-13.0	-47.9	
2494.50	-18.7	V	3.0	36.4	1.0	-54.2	-13.0	-41.2	
3326.00	-19.5	V	3.0	36.1	1.0	-54.6	-13.0	-41.6	
1663.00	-25.1	H	3.0	37.0	1.0	-61.1	-13.0	-48.1	
2494.50	-20.6	H	3.0	36.4	1.0	-56.1	-13.0	-43.1	
3326.00	-19.9	H	3.0	36.1	1.0	-55.0	-13.0	-42.0	
High Ch, 844									
1688.00	-24.9	V	3.0	37.0	1.0	-60.8	-13.0	-47.8	
2532.00	-18.4	V	3.0	36.4	1.0	-53.8	-13.0	-40.8	
3376.00	-20.0	V	3.0	36.1	1.0	-55.1	-13.0	-42.1	
1688.00	-25.2	H	3.0	37.0	1.0	-61.2	-13.0	-48.2	
2532.00	-20.2	H	3.0	36.4	1.0	-55.6	-13.0	-42.6	
3376.00	-19.5	H	3.0	36.1	1.0	-54.6	-13.0	-41.6	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_16QAM Band265 Harmonics, 5MHz Bandwidth

Band
LTE26
5MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 816.5									
1633.00	-24.8	V	3.0	37.0	1.0	-60.8	-13.0	-47.8	
2449.50	-18.3	V	3.0	36.4	1.0	-53.7	-13.0	-40.7	
3266.00	-19.8	V	3.0	36.2	1.0	-54.9	-13.0	-41.9	
1633.00	-25.4	H	3.0	37.0	1.0	-61.4	-13.0	-48.4	
2449.50	-20.1	H	3.0	36.4	1.0	-55.6	-13.0	-42.6	
3266.00	-19.7	H	3.0	36.2	1.0	-54.9	-13.0	-41.9	
Mid Ch, 831.5									
1663.00	-24.8	V	3.0	37.0	1.0	-60.8	-13.0	-47.8	
2494.50	-19.0	V	3.0	36.4	1.0	-54.5	-13.0	-41.5	
3326.00	-19.7	V	3.0	36.1	1.0	-54.8	-13.0	-41.8	
1663.00	-24.8	H	3.0	37.0	1.0	-60.8	-13.0	-47.8	
2494.50	-20.5	H	3.0	36.4	1.0	-55.9	-13.0	-42.9	
3326.00	-20.1	H	3.0	36.1	1.0	-55.2	-13.0	-42.2	
High Ch, 846.5									
1693.00	-24.8	V	3.0	37.0	1.0	-60.7	-13.0	-47.7	
2539.50	-18.3	V	3.0	36.4	1.0	-53.7	-13.0	-40.7	
3386.00	-19.5	V	3.0	36.1	1.0	-54.6	-13.0	-41.6	
1693.00	-25.2	H	3.0	37.0	1.0	-61.2	-13.0	-48.2	
2539.50	-20.0	H	3.0	36.4	1.0	-55.4	-13.0	-42.4	
3386.00	-19.7	H	3.0	36.1	1.0	-54.8	-13.0	-41.8	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_QPSK Band 26 Harmonics, 5MHz Bandwidth

Band
LTE26
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, 816.5									
1633.00	-24.8	V	3.0	37.0	1.0	-60.9	-13.0	-47.9	
2449.50	-18.4	V	3.0	36.4	1.0	-53.9	-13.0	-40.9	
3266.00	-19.7	V	3.0	36.2	1.0	-54.8	-13.0	-41.8	
1633.00	-25.1	H	3.0	37.0	1.0	-61.1	-13.0	-48.1	
2449.50	-20.4	H	3.0	36.4	1.0	-55.8	-13.0	-42.8	
3266.00	-19.7	H	3.0	36.2	1.0	-54.8	-13.0	-41.8	
Mid Ch, 831.5									
1663.00	-24.2	V	3.0	37.0	1.0	-60.2	-13.0	-47.2	
2494.50	-18.6	V	3.0	36.4	1.0	-54.1	-13.0	-41.1	
3326.00	-19.8	V	3.0	36.1	1.0	-54.9	-13.0	-41.9	
1663.00	-25.0	H	3.0	37.0	1.0	-61.0	-13.0	-48.0	
2494.50	-20.5	H	3.0	36.4	1.0	-56.0	-13.0	-43.0	
3326.00	-20.0	H	3.0	36.1	1.0	-55.1	-13.0	-42.1	
High Ch, 846.5									
1693.00	-24.7	V	3.0	37.0	1.0	-60.7	-13.0	-47.7	
2539.50	-18.4	V	3.0	36.4	1.0	-53.8	-13.0	-40.8	
3386.00	-19.9	V	3.0	36.1	1.0	-54.9	-13.0	-41.9	
1693.00	-25.0	H	3.0	37.0	1.0	-60.9	-13.0	-47.9	
2539.50	-19.7	H	3.0	36.4	1.0	-55.1	-13.0	-42.1	
3386.00	-19.3	H	3.0	36.1	1.0	-54.4	-13.0	-41.4	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_16QAM Band 26 Harmonics, 3MHz Bandwidth

Band
LTE26
3MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 815.5									
1631.00	-24.6	V	3.0	37.0	1.0	-60.6	-13.0	-47.6	
2446.50	-18.1	V	3.0	36.4	1.0	-53.6	-13.0	-40.6	
3262.00	-19.5	V	3.0	36.2	1.0	-54.7	-13.0	-41.7	
1631.00	-25.0	H	3.0	37.0	1.0	-61.1	-13.0	-48.1	
2446.50	-20.8	H	3.0	36.4	1.0	-56.2	-13.0	-43.2	
3262.00	-20.2	H	3.0	36.2	1.0	-55.4	-13.0	-42.4	
Mid Ch, 831.5									
1663.00	-24.1	V	3.0	37.0	1.0	-60.1	-13.0	-47.1	
2494.50	-18.4	V	3.0	36.4	1.0	-53.8	-13.0	-40.8	
3326.00	-19.7	V	3.0	36.1	1.0	-54.9	-13.0	-41.9	
1663.00	-24.4	H	3.0	37.0	1.0	-60.4	-13.0	-47.4	
2494.50	-20.2	H	3.0	36.4	1.0	-55.6	-13.0	-42.6	
3326.00	-20.4	H	3.0	36.1	1.0	-55.5	-13.0	-42.5	
High Ch, 847.5									
1695.00	-24.2	V	3.0	37.0	1.0	-60.1	-13.0	-47.1	
2542.50	-18.3	V	3.0	36.4	1.0	-53.7	-13.0	-40.7	
3390.00	-20.1	V	3.0	36.1	1.0	-55.1	-13.0	-42.1	
1695.00	-24.1	H	3.0	37.0	1.0	-60.0	-13.0	-47.0	
2542.50	-19.9	H	3.0	36.4	1.0	-55.3	-13.0	-42.3	
3390.00	-19.6	H	3.0	36.1	1.0	-54.6	-13.0	-41.6	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_QPSK Band 26 Harmonics, 3MHz Bandwidth

Band
LTE26
3MHz
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, 815.5									
1631.00	-24.3	V	3.0	37.0	1.0	-60.4	-13.0	-47.4	
2446.50	-18.4	V	3.0	36.4	1.0	-53.9	-13.0	-40.9	
3262.00	-19.7	V	3.0	36.2	1.0	-54.8	-13.0	-41.8	
1631.00	-25.0	H	3.0	37.0	1.0	-61.0	-13.0	-48.0	
2446.50	-20.6	H	3.0	36.4	1.0	-56.0	-13.0	-43.0	
3262.00	-19.8	H	3.0	36.2	1.0	-54.9	-13.0	-41.9	
Mid Ch, 831.5									
1663.00	-24.1	V	3.0	37.0	1.0	-60.1	-13.0	-47.1	
2494.50	-18.4	V	3.0	36.4	1.0	-53.8	-13.0	-40.8	
3326.00	-19.8	V	3.0	36.1	1.0	-55.0	-13.0	-42.0	
1663.00	-24.3	H	3.0	37.0	1.0	-60.3	-13.0	-47.3	
2494.50	-20.1	H	3.0	36.4	1.0	-55.5	-13.0	-42.5	
3326.00	-20.2	H	3.0	36.1	1.0	-55.3	-13.0	-42.3	
High Ch, 847.5									
1695.00	-24.6	V	3.0	37.0	1.0	-60.6	-13.0	-47.6	
2542.50	-18.3	V	3.0	36.4	1.0	-53.7	-13.0	-40.7	
3390.00	-19.7	V	3.0	36.1	1.0	-54.7	-13.0	-41.7	
1695.00	-24.7	H	3.0	37.0	1.0	-60.7	-13.0	-47.7	
2542.50	-19.8	H	3.0	36.4	1.0	-55.2	-13.0	-42.2	
3390.00	-19.3	H	3.0	36.1	1.0	-54.4	-13.0	-41.4	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_16QAM Band265 Harmonics, 1.4MHz Bandwidth

Band
LTE26
1.4MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 814.7									
1629.40	-24.4	V	3.0	37.1	1.0	-60.5	-13.0	-47.5	
2444.10	-18.5	V	3.0	36.4	1.0	-53.9	-13.0	-40.9	
3258.80	-19.7	V	3.0	36.2	1.0	-54.8	-13.0	-41.8	
1629.40	-24.6	H	3.0	37.1	1.0	-60.7	-13.0	-47.7	
2444.10	-20.4	H	3.0	36.4	1.0	-55.8	-13.0	-42.8	
3258.80	-20.1	H	3.0	36.2	1.0	-55.3	-13.0	-42.3	
Mid Ch, 831.5									
1663.00	-24.1	V	3.0	37.0	1.0	-60.2	-13.0	-47.2	
2494.50	-18.0	V	3.0	36.4	1.0	-53.4	-13.0	-40.4	
3326.00	-19.7	V	3.0	36.1	1.0	-54.8	-13.0	-41.8	
1663.00	-25.1	H	3.0	37.0	1.0	-61.1	-13.0	-48.1	
2494.50	-20.3	H	3.0	36.4	1.0	-55.7	-13.0	-42.7	
3326.00	0.0	H	3.0	36.1	1.0	-35.1	-13.0	-22.1	
High Ch, 848.3									
1696.60	-24.4	V	3.0	37.0	1.0	-60.4	-13.0	-47.4	
2544.90	-18.6	V	3.0	36.4	1.0	-54.0	-13.0	-41.0	
3393.20	-19.4	V	3.0	36.1	1.0	-54.5	-13.0	-41.5	
1696.60	-24.6	H	3.0	37.0	1.0	-60.5	-13.0	-47.5	
2544.90	-20.2	H	3.0	36.4	1.0	-55.6	-13.0	-42.6	
3393.20	-19.4	H	3.0	36.1	1.0	-54.5	-13.0	-41.5	

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

Company: LG
Project #: 15I21552
Date: 8/27/2015
Test Engineer: Jude Semana
Configuration: EUT + AC Adapter + HS
Location: Chamber C
Mode: LTE_QPSK Band 26 Harmonics, 1.4MHz Bandwidth

Band
LTE26
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, 814.7									
1629.40	-24.3	V	3.0	37.1	1.0	-60.4	-13.0	-47.4	
2444.10	-18.3	V	3.0	36.4	1.0	-53.8	-13.0	-40.8	
3258.80	-19.8	V	3.0	36.2	1.0	-54.9	-13.0	-41.9	
1629.40	-24.7	H	3.0	37.1	1.0	-60.8	-13.0	-47.8	
2444.10	-20.3	H	3.0	36.4	1.0	-55.8	-13.0	-42.8	
3258.80	-19.8	H	3.0	36.2	1.0	-55.0	-13.0	-42.0	
Mid Ch, 831.5									
1663.00	-24.1	V	3.0	37.0	1.0	-60.1	-13.0	-47.1	
2494.50	-18.1	V	3.0	36.4	1.0	-53.5	-13.0	-40.5	
3326.00	-19.7	V	3.0	36.1	1.0	-54.8	-13.0	-41.8	
1663.00	-24.3	H	3.0	37.0	1.0	-60.3	-13.0	-47.3	
2494.50	-20.0	H	3.0	36.4	1.0	-55.5	-13.0	-42.5	
3326.00	-19.8	H	3.0	36.1	1.0	-54.9	-13.0	-41.9	
High Ch, 848.3									
1696.60	-24.4	V	3.0	37.0	1.0	-60.4	-13.0	-47.4	
2544.90	-18.2	V	3.0	36.4	1.0	-53.7	-13.0	-40.7	
3393.20	-19.5	V	3.0	36.1	1.0	-54.6	-13.0	-41.6	
1696.60	-24.5	H	3.0	37.0	1.0	-60.5	-13.0	-47.5	
2544.90	-20.1	H	3.0	36.4	1.0	-55.5	-13.0	-42.5	
3393.20	-19.6	H	3.0	36.1	1.0	-54.7	-13.0	-41.7	

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LTE Band 41

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

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_16QAM Band 41 Harmonics, 20MHz Bandwidth

Band

LTE41

20MHz

16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2506									
5012.00	-17.5	V	3.0	35.5	1.0	-51.9	-25.0	-26.9	
7518.00	-11.1	V	3.0	35.7	1.0	-45.8	-25.0	-20.8	
10024.00	-6.9	V	3.0	36.0	1.0	-41.9	-25.0	-16.9	
5012.00	-17.0	H	3.0	35.5	1.0	-51.4	-25.0	-26.4	
7518.00	-12.0	H	3.0	35.7	1.0	-46.8	-25.0	-21.8	
10024.00	-5.4	H	3.0	36.0	1.0	-40.4	-25.0	-15.4	
Mid Ch, 2593									
5186.00	-16.7	V	3.0	35.4	1.0	-51.1	-25.0	-26.1	
7779.00	-11.6	V	3.0	35.8	1.0	-46.4	-25.0	-21.4	
10372.00	-2.3	V	3.0	35.8	1.0	-37.2	-25.0	-12.2	
5186.00	-16.2	H	3.0	35.4	1.0	-50.6	-25.0	-25.6	
7779.00	-11.9	H	3.0	35.8	1.0	-46.6	-25.0	-21.6	
10372.00	-3.8	H	3.0	35.8	1.0	-38.7	-25.0	-13.7	
High Ch, 2680									
5360.00	-15.5	V	3.0	35.4	1.0	-49.9	-25.0	-24.9	
8040.00	-11.9	V	3.0	35.8	1.0	-46.7	-25.0	-21.7	
10720.00	-2.1	V	3.0	35.7	1.0	-36.8	-25.0	-11.8	
5360.00	-16.0	H	3.0	35.4	1.0	-50.4	-25.0	-25.4	
8040.00	-10.9	H	3.0	35.8	1.0	-45.7	-25.0	-20.7	
10720.00	-2.2	H	3.0	35.7	1.0	-36.9	-25.0	-11.9	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_QPSK Band 41 Harmonics, 20MHz Bandwidth

Band

LTE41

20MHz

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, 2506									
5012.00	-16.8	V	3.0	35.5	1.0	-51.3	-25.0	-26.3	
7518.00	-11.7	V	3.0	35.7	1.0	-46.4	-25.0	-21.4	
10024.00	-8.6	V	3.0	36.0	1.0	-43.6	-25.0	-18.6	
5012.00	-17.0	H	3.0	35.5	1.0	-51.4	-25.0	-26.4	
7518.00	-12.1	H	3.0	35.7	1.0	-46.9	-25.0	-21.9	
10024.00	-7.8	H	3.0	36.0	1.0	-42.8	-25.0	-17.8	
Mid Ch, 2593									
5186.00	-16.9	V	3.0	35.4	1.0	-51.3	-25.0	-26.3	
7779.00	-11.6	V	3.0	35.8	1.0	-46.4	-25.0	-21.4	
10372.00	-4.5	V	3.0	35.8	1.0	-39.3	-25.0	-14.3	
5186.00	-16.2	H	3.0	35.4	1.0	-50.6	-25.0	-25.6	
7779.00	-11.3	H	3.0	35.8	1.0	-46.1	-25.0	-21.1	
10372.00	-5.9	H	3.0	35.8	1.0	-40.7	-25.0	-15.7	
High Ch, 2680									
5360.00	-16.6	V	3.0	35.4	1.0	-51.0	-25.0	-26.0	
8040.00	-12.3	V	3.0	35.8	1.0	-47.1	-25.0	-22.1	
10720.00	-4.5	V	3.0	35.7	1.0	-39.2	-25.0	-14.2	
5360.00	-16.1	H	3.0	35.4	1.0	-50.5	-25.0	-25.5	
8040.00	-11.3	H	3.0	35.8	1.0	-46.1	-25.0	-21.1	
10720.00	-4.8	H	3.0	35.7	1.0	-39.5	-25.0	-14.5	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_16QAM Band 41 Harmonics, 15MHz Bandwidth

Band

LTE41

15MHz

16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2503.5									
5007.00	-17.3	V	3.0	35.5	1.0	-51.8	-25.0	-26.8	
7510.50	-10.3	V	3.0	35.7	1.0	-45.0	-25.0	-20.0	
10014.00	-8.8	V	3.0	36.0	1.0	-43.8	-25.0	-18.8	
5007.00	-17.0	H	3.0	35.5	1.0	-51.4	-25.0	-26.4	
7510.50	-12.1	H	3.0	35.7	1.0	-46.8	-25.0	-21.8	
10014.00	-6.4	H	3.0	36.0	1.0	-41.5	-25.0	-16.5	
Mid Ch, 2593									
5186.00	-16.6	V	3.0	35.4	1.0	-51.0	-25.0	-26.0	
7779.00	-12.3	V	3.0	35.8	1.0	-47.1	-25.0	-22.1	
10372.00	-3.0	V	3.0	35.8	1.0	-37.9	-25.0	-12.9	
5186.00	114.5	H	3.0	35.4	1.0	80.0	-25.0	105.0	
7779.00	-11.4	H	3.0	35.8	1.0	-46.2	-25.0	-21.2	
10372.00	-5.2	H	3.0	35.8	1.0	-40.1	-25.0	-15.1	
High Ch, 2682.5									
5365.00	-16.2	V	3.0	35.4	1.0	-50.6	-25.0	-25.6	
8047.50	-12.4	V	3.0	35.8	1.0	-47.2	-25.0	-22.2	
10730.00	-1.7	V	3.0	35.7	1.0	-36.4	-25.0	-11.4	
5365.00	-15.6	H	3.0	35.4	1.0	-50.1	-25.0	-25.1	
8047.50	-12.0	H	3.0	35.8	1.0	-46.8	-25.0	-21.8	
10730.00	-4.6	H	3.0	35.7	1.0	-39.3	-25.0	-14.3	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_QPSK Band 41 Harmonics, 15MHz Bandwidth

Band

LTE41

15MHz

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, 2503.5									
5007.00	-17.2	V	3.0	35.5	1.0	-51.7	-25.0	-26.7	
7510.50	-11.0	V	3.0	35.7	1.0	-45.7	-25.0	-20.7	
10014.00	-9.1	V	3.0	36.0	1.0	-44.2	-25.0	-19.2	
5007.00	-17.3	H	3.0	35.5	1.0	-51.7	-25.0	-26.7	
7510.50	-11.8	H	3.0	35.7	1.0	-46.5	-25.0	-21.5	
10014.00	-7.9	H	3.0	36.0	1.0	-42.9	-25.0	-17.9	
Mid Ch, 2593									
5186.00	-15.9	V	3.0	35.4	1.0	-50.3	-25.0	-25.3	
7779.00	-12.3	V	3.0	35.8	1.0	-47.0	-25.0	-22.0	
10372.00	-5.1	V	3.0	35.8	1.0	-39.9	-25.0	-14.9	
5186.00	-16.4	H	3.0	35.4	1.0	-50.8	-25.0	-25.8	
7779.00	-11.3	H	3.0	35.8	1.0	-46.0	-25.0	-21.0	
10372.00	-7.3	H	3.0	35.8	1.0	-42.2	-25.0	-17.2	
High Ch, 2682.5									
5365.00	-16.7	V	3.0	35.4	1.0	-51.1	-25.0	-26.1	
8047.50	-12.0	V	3.0	35.8	1.0	-46.8	-25.0	-21.8	
10730.00	-2.3	V	3.0	35.7	1.0	-36.9	-25.0	-11.9	
5365.00	-15.6	H	3.0	35.4	1.0	-50.0	-25.0	-25.0	
8047.50	-10.6	H	3.0	35.8	1.0	-45.4	-25.0	-20.4	
10730.00	-7.0	H	3.0	35.7	1.0	-41.6	-25.0	-16.6	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_16QAM Band 41 Harmonics, 10MHz Bandwidth

Band

LTE41

10MHz

16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2501									
5002.00	-17.2	V	3.0	35.5	1.0	-51.7	-25.0	-26.7	
7503.00	-10.4	V	3.0	35.7	1.0	-45.2	-25.0	-20.2	
10004.00	-8.2	V	3.0	36.0	1.0	-43.2	-25.0	-18.2	
5002.00	-16.7	H	3.0	35.5	1.0	-51.1	-25.0	-26.1	
7503.00	-11.8	H	3.0	35.7	1.0	-46.5	-25.0	-21.5	
10004.00	-6.6	H	3.0	36.0	1.0	-41.6	-25.0	-16.6	
Mid Ch, 2593									
5186.00	-17.0	V	3.0	35.4	1.0	-51.5	-25.0	-26.5	
7779.00	-12.1	V	3.0	35.8	1.0	-46.9	-25.0	-21.9	
10372.00	-3.9	V	3.0	35.8	1.0	-38.8	-25.0	-13.8	
5186.00	-16.1	H	3.0	35.4	1.0	-50.6	-25.0	-25.6	
7779.00	-11.0	H	3.0	35.8	1.0	-45.8	-25.0	-20.8	
10372.00	-4.9	H	3.0	35.8	1.0	-39.7	-25.0	-14.7	
High Ch, 2685									
5370.00	-16.8	V	3.0	35.4	1.0	-51.2	-25.0	-26.2	
8055.00	-12.2	V	3.0	35.8	1.0	-47.0	-25.0	-22.0	
10740.00	-4.3	V	3.0	35.7	1.0	-39.0	-25.0	-14.0	
5370.00	-16.3	H	3.0	35.4	1.0	-50.7	-25.0	-25.7	
8055.00	-11.6	H	3.0	35.8	1.0	-46.4	-25.0	-21.4	
10740.00	-3.3	H	3.0	35.7	1.0	-37.9	-25.0	-12.9	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_QPSK Band 41 Harmonics, 10MHz Bandwidth

Band

LTE41

10MHz

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, 2501									
5002.00	-17.6	V	3.0	35.5	1.0	-52.1	-25.0	-27.1	
7503.00	-11.5	V	3.0	35.7	1.0	-46.3	-25.0	-21.3	
10004.00	-8.6	V	3.0	36.0	1.0	-43.6	-25.0	-18.6	
5002.00	-17.1	H	3.0	35.5	1.0	-51.6	-25.0	-26.6	
7503.00	-11.7	H	3.0	35.7	1.0	-46.4	-25.0	-21.4	
10004.00	-8.1	H	3.0	36.0	1.0	-43.1	-25.0	-18.1	
Mid Ch, 2593									
5186.00	-16.8	V	3.0	35.4	1.0	-51.2	-25.0	-26.2	
7779.00	-11.5	V	3.0	35.8	1.0	-46.3	-25.0	-21.3	
10372.00	-5.8	V	3.0	35.8	1.0	-40.7	-25.0	-15.7	
5186.00	-15.7	H	3.0	35.4	1.0	-50.2	-25.0	-25.2	
7779.00	-10.9	H	3.0	35.8	1.0	-45.7	-25.0	-20.7	
10372.00	-6.2	H	3.0	35.8	1.0	-41.0	-25.0	-16.0	
High Ch, 2685									
5370.00	-16.6	V	3.0	35.4	1.0	-51.1	-25.0	-26.1	
8055.00	-12.7	V	3.0	35.8	1.0	-47.5	-25.0	-22.5	
10740.00	-6.2	V	3.0	35.7	1.0	-40.8	-25.0	-15.8	
5370.00	-16.3	H	3.0	35.4	1.0	-50.7	-25.0	-25.7	
8055.00	-11.6	H	3.0	35.8	1.0	-46.4	-25.0	-21.4	
10740.00	-5.7	H	3.0	35.7	1.0	-40.4	-25.0	-15.4	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_16QAM Band 41 Harmonics, 5MHz Bandwidth

Band

LTE41

5MHz

16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2498.5									
4997.00	-17.1	V	3.0	35.5	1.0	-51.5	-25.0	-26.5	
7495.50	-11.1	V	3.0	35.7	1.0	-45.9	-25.0	-20.9	
9994.00	-7.5	V	3.0	36.0	1.0	-42.5	-25.0	-17.5	
4997.00	-17.1	H	3.0	35.5	1.0	-51.6	-25.0	-26.6	
7495.50	-11.9	H	3.0	35.7	1.0	-46.7	-25.0	-21.7	
9994.00	-5.0	H	3.0	36.0	1.0	-40.0	-25.0	-15.0	
Mid Ch, 2593									
5186.00	-16.1	V	3.0	35.4	1.0	-50.5	-25.0	-25.5	
7779.00	-12.1	V	3.0	35.8	1.0	-46.9	-25.0	-21.9	
10372.00	-6.4	V	3.0	35.8	1.0	-41.3	-25.0	-16.3	
5186.00	-16.3	H	3.0	35.4	1.0	-50.7	-25.0	-25.7	
7779.00	-11.0	H	3.0	35.8	1.0	-45.7	-25.0	-20.7	
10372.00	-4.8	H	3.0	35.8	1.0	-39.7	-25.0	-14.7	
High Ch, 2687.5									
5375.00	-16.2	V	3.0	35.4	1.0	-50.7	-25.0	-25.7	
8062.50	-12.2	V	3.0	35.8	1.0	-47.0	-25.0	-22.0	
10750.00	-3.5	V	3.0	35.7	1.0	-38.1	-25.0	-13.1	
5375.00	-16.1	H	3.0	35.4	1.0	-50.5	-25.0	-25.5	
8062.50	-11.0	H	3.0	35.8	1.0	-45.8	-25.0	-20.8	
10750.00	-3.9	H	3.0	35.7	1.0	-38.5	-25.0	-13.5	

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

Company: LG Electronics
Project #: 15I21552
Date: 8/20/2015
Test Engineer: A. Escamilla
Configuration: EUT, AC Adapter, Headset
Location: Chamber C
Mode: LTE_QPSK Band 41 Harmonics, 5MHz Bandwidth

Band
LTE41
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, 2498.5									
4997.00	-16.9	V	3.0	35.5	1.0	-51.4	-25.0	-26.4	
7495.50	-11.8	V	3.0	35.7	1.0	-46.6	-25.0	-21.6	
9994.00	-9.2	V	3.0	36.0	1.0	-44.2	-25.0	-19.2	
4997.00	-17.1	H	3.0	35.5	1.0	-51.5	-25.0	-26.5	
7495.50	-11.5	H	3.0	35.7	1.0	-46.2	-25.0	-21.2	
9994.00	-7.4	H	3.0	36.0	1.0	-42.4	-25.0	-17.4	
Mid Ch, 2593									
5186.00	-16.8	V	3.0	35.4	1.0	-51.2	-25.0	-26.2	
7779.00	-11.7	V	3.0	35.8	1.0	-46.5	-25.0	-21.5	
10372.00	-6.2	V	3.0	35.8	1.0	-41.1	-25.0	-16.1	
5186.00	-16.9	H	3.0	35.4	1.0	-51.3	-25.0	-26.3	
7779.00	-11.2	H	3.0	35.8	1.0	-46.0	-25.0	-21.0	
10372.00	-5.8	H	3.0	35.8	1.0	-40.7	-25.0	-15.7	
High Ch, 2687.5									
5375.00	-16.0	V	3.0	35.4	1.0	-50.4	-25.0	-25.4	
8062.50	-12.2	V	3.0	35.8	1.0	-47.0	-25.0	-22.0	
10750.00	-6.1	V	3.0	35.7	1.0	-40.8	-25.0	-15.8	
5375.00	-15.7	H	3.0	35.4	1.0	-50.1	-25.0	-25.1	
8062.50	-11.5	H	3.0	35.8	1.0	-46.3	-25.0	-21.3	
10750.00	-7.2	H	3.0	35.7	1.0	-41.8	-25.0	-16.8	

UL VERIFICATION SERVICES INC. FORM NO: CCSUP4701H
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