

12.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

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

LIMIT

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

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

TEST PROCEDURE

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

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

MODES TESTED

GSM, WCDMA, CDMA, and LTE

RESULTS

12.2.1. SPURIOUS RADIATION PLOTS

GSM

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|-----------------------------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | |
| Configuration: | | X-pos EUT w/ AC Adapter + Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | GPRS 1900 MHz Harmonics | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Low Ch, 1850.2 | | | | | | | | | |
| 3700.40 | -20.1 | V | 3.0 | 35.9 | 1.0 | -55.0 | -13.0 | -42.0 | |
| 5550.60 | -17.3 | V | 3.0 | 35.5 | 1.0 | -51.8 | -13.0 | -38.8 | |
| 7400.80 | -13.8 | V | 3.0 | 35.7 | 1.0 | -48.5 | -13.0 | -35.5 | |
| GSM | | | | | | | | | |
| 3700.40 | -22.0 | H | 3.0 | 35.9 | 1.0 | -56.8 | -13.0 | -43.8 | |
| 5550.60 | -11.8 | H | 3.0 | 35.5 | 1.0 | -46.3 | -13.0 | -33.3 | |
| 7400.80 | -13.3 | H | 3.0 | 35.7 | 1.0 | -48.0 | -13.0 | -35.0 | |
| 1900 | | | | | | | | | |
| EGPRS | | | | | | | | | |
| Mid Ch, 1880 | | | | | | | | | |
| 3760.00 | -20.2 | V | 3.0 | 35.8 | 1.0 | -55.0 | -13.0 | -42.0 | |
| 5640.00 | -17.6 | V | 3.0 | 35.5 | 1.0 | -52.1 | -13.0 | -39.1 | |
| 7520.00 | -14.3 | V | 3.0 | 35.7 | 1.0 | -49.0 | -13.0 | -36.0 | |
| 3760.00 | -20.9 | H | 3.0 | 35.8 | 1.0 | -55.7 | -13.0 | -42.7 | |
| 5640.00 | -12.0 | H | 3.0 | 35.5 | 1.0 | -46.5 | -13.0 | -33.5 | |
| 7520.00 | -12.9 | H | 3.0 | 35.7 | 1.0 | -47.6 | -13.0 | -34.6 | |
| High Ch, 1909.8 | | | | | | | | | |
| 3819.60 | -20.2 | V | 3.0 | 35.8 | 1.0 | -54.9 | -13.0 | -41.9 | |
| 5729.40 | -15.9 | V | 3.0 | 35.5 | 1.0 | -50.4 | -13.0 | -37.4 | |
| 7639.20 | -14.0 | V | 3.0 | 35.8 | 1.0 | -48.8 | -13.0 | -35.8 | |
| 3819.60 | -20.8 | H | 3.0 | 35.8 | 1.0 | -55.5 | -13.0 | -42.5 | |
| 5729.40 | -11.0 | H | 3.0 | 35.5 | 1.0 | -45.5 | -13.0 | -32.5 | |
| 7639.20 | -12.0 | H | 3.0 | 35.8 | 1.0 | -46.7 | -13.0 | -33.7 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|-----------------------------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | |
| Configuration: | | X-pos EUT w/ AC Adapter + Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | EGPRS 1900 MHz Harmonics | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Low Ch, 1850.2 | | | | | | | | | |
| | 3700.40 | -20.3 | V | 3.0 | 35.9 | 1.0 | -55.2 | -13.0 | -42.2 |
| | 5550.60 | -15.3 | V | 3.0 | 35.5 | 1.0 | -49.7 | -13.0 | -36.7 |
| | 7400.80 | -14.1 | V | 3.0 | 35.7 | 1.0 | -48.9 | -13.0 | -35.9 |
| GSM | 3700.40 | -20.8 | H | 3.0 | 35.9 | 1.0 | -55.6 | -13.0 | -42.6 |
| 1900 | 5550.60 | -15.5 | H | 3.0 | 35.5 | 1.0 | -50.0 | -13.0 | -37.0 |
| GPRS | 7400.80 | -13.4 | H | 3.0 | 35.7 | 1.0 | -48.2 | -13.0 | -35.2 |
| Mid Ch, 1880 | | | | | | | | | |
| | 3760.00 | -20.1 | V | 3.0 | 35.8 | 1.0 | -54.9 | -13.0 | -41.9 |
| | 5640.00 | -15.0 | V | 3.0 | 35.5 | 1.0 | -49.5 | -13.0 | -36.5 |
| | 7520.00 | -13.8 | V | 3.0 | 35.7 | 1.0 | -48.6 | -13.0 | -35.6 |
| | 3760.00 | -21.5 | H | 3.0 | 35.8 | 1.0 | -56.3 | -13.0 | -43.3 |
| | 5640.00 | -16.8 | H | 3.0 | 35.5 | 1.0 | -51.3 | -13.0 | -38.3 |
| | 7520.00 | -13.7 | H | 3.0 | 35.7 | 1.0 | -48.4 | -13.0 | -35.4 |
| High Ch, 1909.8 | | | | | | | | | |
| | 3819.60 | -19.6 | V | 3.0 | 35.8 | 1.0 | -54.4 | -13.0 | -41.4 |
| | 5729.40 | -16.0 | V | 3.0 | 35.5 | 1.0 | -50.5 | -13.0 | -37.5 |
| | 7639.20 | -13.9 | V | 3.0 | 35.8 | 1.0 | -48.6 | -13.0 | -35.6 |
| | 3819.60 | -20.3 | H | 3.0 | 35.8 | 1.0 | -55.1 | -13.0 | -42.1 |
| | 5729.40 | -16.2 | H | 3.0 | 35.5 | 1.0 | -50.7 | -13.0 | -37.7 |
| | 7639.20 | -13.0 | H | 3.0 | 35.8 | 1.0 | -47.8 | -13.0 | -34.8 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|-----------------------------------|--------------|--------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | |
| Configuration: | | X-pos EUT w/ AC Adapter + Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | EGPRS 850 MHz Harmonics | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Pream p (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 824.2 | | | | | | | | | |
| 1648.40 | -14.8 | V | 3.0 | 37.0 | 1.0 | -50.9 | -13.0 | -37.9 | |
| 2472.60 | -4.6 | V | 3.0 | 36.4 | 1.0 | -40.0 | -13.0 | -27.0 | |
| 3296.80 | -12.9 | V | 3.0 | 36.2 | 1.0 | -48.0 | -13.0 | -35.0 | |
| 850 | | | | | | | | | |
| 1648.40 | -19.7 | H | 3.0 | 37.0 | 1.0 | -55.8 | -13.0 | -42.8 | |
| 2472.60 | -6.1 | H | 3.0 | 36.4 | 1.0 | -41.6 | -13.0 | -28.6 | |
| EGPRS | | | | | | | | | |
| 3296.80 | -15.1 | H | 3.0 | 36.2 | 1.0 | -50.3 | -13.0 | -37.3 | |
| Mid Ch, 836.6 | | | | | | | | | |
| 1673.20 | -18.0 | V | 3.0 | 37.0 | 1.0 | -54.0 | -13.0 | -41.0 | |
| 2509.80 | -16.3 | V | 3.0 | 36.4 | 1.0 | -51.7 | -13.0 | -38.7 | |
| 3346.40 | -20.4 | V | 3.0 | 36.1 | 1.0 | -55.5 | -13.0 | -42.5 | |
| 1673.20 | -19.9 | H | 3.0 | 37.0 | 1.0 | -55.9 | -13.0 | -42.9 | |
| 2509.80 | -17.0 | H | 3.0 | 36.4 | 1.0 | -52.5 | -13.0 | -39.5 | |
| 3346.40 | -21.9 | H | 3.0 | 36.1 | 1.0 | -57.1 | -13.0 | -44.1 | |
| High Ch, 848.8 | | | | | | | | | |
| 1697.60 | -27.5 | V | 3.0 | 37.0 | 1.0 | -63.4 | -13.0 | -50.4 | |
| 2546.40 | -22.6 | V | 3.0 | 36.4 | 1.0 | -58.0 | -13.0 | -45.0 | |
| 3395.20 | -21.8 | V | 3.0 | 36.1 | 1.0 | -56.8 | -13.0 | -43.8 | |
| 1697.60 | -27.3 | H | 3.0 | 37.0 | 1.0 | -63.3 | -13.0 | -50.3 | |
| 2546.40 | -23.9 | H | 3.0 | 36.4 | 1.0 | -59.3 | -13.0 | -46.3 | |
| 3395.20 | -23.0 | H | 3.0 | 36.1 | 1.0 | -58.1 | -13.0 | -45.1 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|-----------------------------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | |
| Configuration: | | X-pos EUT w/ AC Adapter + Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | GPRS 850 MHz Harmonics | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 824.2 | | | | | | | | | |
| 1648.40 | -15.7 | V | 3.0 | 37.0 | 1.0 | -51.7 | -13.0 | -38.7 | |
| 2472.60 | -6.9 | V | 3.0 | 36.4 | 1.0 | -42.3 | -13.0 | -29.3 | |
| 3296.80 | -12.9 | V | 3.0 | 36.2 | 1.0 | -48.0 | -13.0 | -35.0 | |
| 1648.40 | -17.3 | H | 3.0 | 37.0 | 1.0 | -53.3 | -13.0 | -40.3 | |
| 2472.60 | -17.4 | H | 3.0 | 36.4 | 1.0 | -52.8 | -13.0 | -39.8 | |
| 3296.80 | -22.0 | H | 3.0 | 36.2 | 1.0 | -57.2 | -13.0 | -44.2 | |
| Mid Ch, 836.6 | | | | | | | | | |
| 1673.20 | -19.0 | V | 3.0 | 37.0 | 1.0 | -55.0 | -13.0 | -42.0 | |
| 2509.80 | -16.5 | V | 3.0 | 36.4 | 1.0 | -51.9 | -13.0 | -38.9 | |
| 3346.40 | -20.8 | V | 3.0 | 36.1 | 1.0 | -55.9 | -13.0 | -42.9 | |
| 1673.20 | -21.2 | H | 3.0 | 37.0 | 1.0 | -57.2 | -13.0 | -44.2 | |
| 2509.80 | -20.9 | H | 3.0 | 36.4 | 1.0 | -56.3 | -13.0 | -43.3 | |
| 3346.40 | -17.0 | H | 3.0 | 36.1 | 1.0 | -52.1 | -13.0 | -39.1 | |
| High Ch, 848.8 | | | | | | | | | |
| 1697.60 | -26.4 | V | 3.0 | 37.0 | 1.0 | -62.4 | -13.0 | -49.4 | |
| 2546.40 | -23.3 | V | 3.0 | 36.4 | 1.0 | -58.7 | -13.0 | -45.7 | |
| 3395.20 | -21.6 | V | 3.0 | 36.1 | 1.0 | -56.7 | -13.0 | -43.7 | |
| 1697.60 | -27.7 | H | 3.0 | 37.0 | 1.0 | -63.7 | -13.0 | -50.7 | |
| 2546.40 | -24.4 | H | 3.0 | 36.4 | 1.0 | -59.8 | -13.0 | -46.8 | |
| 3395.20 | -22.8 | H | 3.0 | 36.1 | 1.0 | -57.9 | -13.0 | -44.9 | |

WCDMA

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|-----------------------------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | |
| Configuration: | | X-pos EUT w/ AC Adapter + Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | HSDPA Band 2 Harmonics | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1852.4 | | | | | | | | | |
| Band | 3704.80 | -15.4 | V | 3.0 | 35.9 | 1.0 | -50.2 | -13.0 | -37.2 |
| | 5557.20 | -15.7 | V | 3.0 | 35.5 | 1.0 | -50.2 | -13.0 | -37.2 |
| Band 2 | 7409.60 | -14.3 | V | 3.0 | 35.7 | 1.0 | -49.0 | -13.0 | -36.0 |
| | 3704.80 | -16.2 | H | 3.0 | 35.9 | 1.0 | -51.1 | -13.0 | -38.1 |
| | 5557.20 | -16.6 | H | 3.0 | 35.5 | 1.0 | -51.1 | -13.0 | -38.1 |
| HSDPA | 7409.60 | -12.3 | H | 3.0 | 35.7 | 1.0 | -47.0 | -13.0 | -34.0 |
| Mid Ch, 1880 | | | | | | | | | |
| | 3760.00 | -14.1 | V | 3.0 | 35.8 | 1.0 | -48.9 | -13.0 | -35.9 |
| | 5640.00 | -17.6 | V | 3.0 | 35.5 | 1.0 | -52.1 | -13.0 | -39.1 |
| | 7520.00 | -11.0 | V | 3.0 | 35.7 | 1.0 | -45.8 | -13.0 | -32.8 |
| | 3760.00 | -15.2 | H | 3.0 | 35.8 | 1.0 | -50.0 | -13.0 | -37.0 |
| | 5640.00 | -17.4 | H | 3.0 | 35.5 | 1.0 | -51.9 | -13.0 | -38.9 |
| | 7520.00 | -11.0 | H | 3.0 | 35.7 | 1.0 | -45.7 | -13.0 | -32.7 |
| High Ch, 1907.6 | | | | | | | | | |
| | 3815.20 | -14.1 | V | 3.0 | 35.8 | 1.0 | -48.9 | -13.0 | -35.9 |
| | 5722.80 | -16.3 | V | 3.0 | 35.5 | 1.0 | -50.8 | -13.0 | -37.8 |
| | 7630.40 | -13.9 | V | 3.0 | 35.8 | 1.0 | -48.7 | -13.0 | -35.7 |
| | 3815.20 | -15.9 | H | 3.0 | 35.8 | 1.0 | -50.6 | -13.0 | -37.6 |
| | 5722.80 | -15.4 | H | 3.0 | 35.5 | 1.0 | -49.9 | -13.0 | -36.9 |
| | 7630.40 | -11.8 | H | 3.0 | 35.8 | 1.0 | -46.5 | -13.0 | -33.5 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|---------------------|-----------------------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | |
| Configuration: | | X-pos EUT w/ AC Adapter + Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | Rel99 Band 2 Harmonics | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Low Ch, 1852.4 | | | | | | | | | |
| 3704.80 | -13.6 | V | 3.0 | 35.9 | 1.0 | -48.5 | -13.0 | -35.5 | |
| 5557.20 | -7.7 | V | 3.0 | 35.5 | 1.0 | -42.1 | -13.0 | -29.1 | |
| Band 2 | | | | | | | | | |
| 7409.60 | -14.9 | V | 3.0 | 35.7 | 1.0 | -49.7 | -13.0 | -36.7 | |
| 3704.80 | -18.1 | H | 3.0 | 35.9 | 1.0 | -53.0 | -13.0 | -40.0 | |
| 5557.20 | -17.2 | H | 3.0 | 35.5 | 1.0 | -51.6 | -13.0 | -38.6 | |
| REL99 | | | | | | | | | |
| 7409.60 | -12.8 | H | 3.0 | 35.7 | 1.0 | -47.5 | -13.0 | -34.5 | |
| Mid Ch, 1880 | | | | | | | | | |
| 3760.00 | -13.7 | V | 3.0 | 35.8 | 1.0 | -48.5 | -13.0 | -35.5 | |
| 5640.00 | -16.9 | V | 3.0 | 35.5 | 1.0 | -51.4 | -13.0 | -38.4 | |
| 7520.00 | -13.5 | V | 3.0 | 35.7 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 3760.00 | -13.2 | H | 3.0 | 35.8 | 1.0 | -48.0 | -13.0 | -35.0 | |
| 5640.00 | -16.2 | H | 3.0 | 35.5 | 1.0 | -50.7 | -13.0 | -37.7 | |
| 7520.00 | -13.2 | H | 3.0 | 35.7 | 1.0 | -47.9 | -13.0 | -34.9 | |
| High Ch, 1907.6 | | | | | | | | | |
| 3815.20 | -14.4 | V | 3.0 | 35.8 | 1.0 | -49.1 | -13.0 | -36.1 | |
| 5722.80 | -14.7 | V | 3.0 | 35.5 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 7630.40 | -13.9 | V | 3.0 | 35.8 | 1.0 | -48.6 | -13.0 | -35.6 | |
| 3815.20 | -15.5 | H | 3.0 | 35.8 | 1.0 | -50.3 | -13.0 | -37.3 | |
| 5722.80 | -16.2 | H | 3.0 | 35.5 | 1.0 | -50.7 | -13.0 | -37.7 | |
| 7630.40 | -12.6 | H | 3.0 | 35.8 | 1.0 | -47.3 | -13.0 | -34.3 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|-----------------------------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | |
| Configuration: | | X-pos EUT w/ AC Adapter + Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | HSDPA Band 4 Harmonics | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1712.4 | | | | | | | | | |
| 3424.80 | -19.1 | V | 3.0 | 35.9 | 1.0 | -53.9 | -13.0 | -40.9 | |
| 5137.20 | -16.8 | V | 3.0 | 35.5 | 1.0 | -51.2 | -13.0 | -38.2 | |
| 6849.60 | -12.6 | V | 3.0 | 35.7 | 1.0 | -47.3 | -13.0 | -34.3 | |
| Band 4 | | | | | | | | | |
| 3424.80 | -15.1 | H | 3.0 | 35.9 | 1.0 | -49.9 | -13.0 | -36.9 | |
| 5137.20 | -15.7 | H | 3.0 | 35.5 | 1.0 | -50.2 | -13.0 | -37.2 | |
| 6849.60 | -11.7 | H | 3.0 | 35.7 | 1.0 | -46.5 | -13.0 | -33.5 | |
| HSDPA | | | | | | | | | |
| Mid Ch, 1732.6 | | | | | | | | | |
| 3465.20 | -19.0 | V | 3.0 | 35.8 | 1.0 | -53.8 | -13.0 | -40.8 | |
| 5197.80 | -15.9 | V | 3.0 | 35.5 | 1.0 | -50.4 | -13.0 | -37.4 | |
| 6930.40 | -12.8 | V | 3.0 | 35.7 | 1.0 | -47.6 | -13.0 | -34.6 | |
| 3465.20 | -14.1 | H | 3.0 | 35.8 | 1.0 | -48.9 | -13.0 | -35.9 | |
| 5197.80 | -16.4 | H | 3.0 | 35.5 | 1.0 | -50.9 | -13.0 | -37.9 | |
| 6930.40 | -10.8 | H | 3.0 | 35.7 | 1.0 | -45.5 | -13.0 | -32.5 | |
| High Ch, 1752.6 | | | | | | | | | |
| 3505.20 | -19.1 | V | 3.0 | 35.8 | 1.0 | -53.9 | -13.0 | -40.9 | |
| 5257.80 | -15.7 | V | 3.0 | 35.5 | 1.0 | -50.2 | -13.0 | -37.2 | |
| 7010.40 | -13.3 | V | 3.0 | 35.8 | 1.0 | -48.0 | -13.0 | -35.0 | |
| 3505.20 | -14.0 | H | 3.0 | 35.8 | 1.0 | -48.8 | -13.0 | -35.8 | |
| 5257.80 | -15.2 | H | 3.0 | 35.5 | 1.0 | -49.7 | -13.0 | -36.7 | |
| 7010.40 | -10.9 | H | 3.0 | 35.8 | 1.0 | -45.7 | -13.0 | -32.7 | |

| UL Verification Services, Inc. | | | | | | | | | |
|---|------------------|-----------------------------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | |
| Configuration: | | X-pos EUT w/ AC Adapter + Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | REL99 Band 4 Harmonics | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1712.4 | | | | | | | | | |
| 3424.80 | -14.7 | V | 3.0 | 35.9 | 1.0 | -49.5 | -13.0 | -36.5 | |
| 5137.20 | -16.1 | V | 3.0 | 35.5 | 1.0 | -50.5 | -13.0 | -37.5 | |
| 6849.60 | -13.3 | V | 3.0 | 35.7 | 1.0 | -48.0 | -13.0 | -35.0 | |
| Band 4 | | | | | | | | | |
| 3424.80 | -13.6 | H | 3.0 | 35.9 | 1.0 | -48.4 | -13.0 | -35.4 | |
| 5137.20 | -15.5 | H | 3.0 | 35.5 | 1.0 | -50.0 | -13.0 | -37.0 | |
| 6849.60 | -11.9 | H | 3.0 | 35.7 | 1.0 | -46.6 | -13.0 | -33.6 | |
| REL99 | | | | | | | | | |
| Mid Ch, 1732.6 | | | | | | | | | |
| 3465.20 | -13.7 | V | 3.0 | 35.8 | 1.0 | -48.5 | -13.0 | -35.5 | |
| 5197.80 | -16.8 | V | 3.0 | 35.5 | 1.0 | -51.3 | -13.0 | -38.3 | |
| 6930.40 | -12.6 | V | 3.0 | 35.7 | 1.0 | -47.3 | -13.0 | -34.3 | |
| 3465.20 | -12.7 | H | 3.0 | 35.8 | 1.0 | -47.5 | -13.0 | -34.5 | |
| 5197.80 | -15.0 | H | 3.0 | 35.5 | 1.0 | -49.5 | -13.0 | -36.5 | |
| 6930.40 | -12.0 | H | 3.0 | 35.7 | 1.0 | -46.7 | -13.0 | -33.7 | |
| High Ch, 1752.6 | | | | | | | | | |
| 3505.20 | -13.5 | V | 3.0 | 35.8 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 5257.80 | -15.0 | V | 3.0 | 35.5 | 1.0 | -49.5 | -13.0 | -36.5 | |
| 7010.40 | -13.9 | V | 3.0 | 35.8 | 1.0 | -48.7 | -13.0 | -35.7 | |
| 3505.20 | -13.6 | H | 3.0 | 35.8 | 1.0 | -48.4 | -13.0 | -35.4 | |
| 5257.80 | -16.9 | H | 3.0 | 35.5 | 1.0 | -51.4 | -13.0 | -38.4 | |
| 7010.40 | -12.1 | H | 3.0 | 35.8 | 1.0 | -46.8 | -13.0 | -33.8 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|---------------------|-----------------------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | |
| Configuration: | | X-pos EUT w/ AC Adapter + Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | HSDPA Band 5 Harmonics | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Band 5 | | | | | | | | | |
| HSDPA | | | | | | | | | |
| Low Ch, 826.4 | | | | | | | | | |
| 1652.80 | -27.5 | V | 3.0 | 37.0 | 1.0 | -63.5 | -13.0 | -50.5 | |
| 2479.20 | -22.6 | V | 3.0 | 36.4 | 1.0 | -58.0 | -13.0 | -45.0 | |
| 3305.60 | -20.4 | V | 3.0 | 36.1 | 1.0 | -55.5 | -13.0 | -42.5 | |
| 1652.80 | -28.2 | H | 3.0 | 37.0 | 1.0 | -64.3 | -13.0 | -51.3 | |
| 2479.20 | -24.5 | H | 3.0 | 36.4 | 1.0 | -59.9 | -13.0 | -46.9 | |
| 3305.60 | -21.9 | H | 3.0 | 36.1 | 1.0 | -57.0 | -13.0 | -44.0 | |
| Mid Ch, 836.6 | | | | | | | | | |
| 1673.20 | -27.2 | V | 3.0 | 37.0 | 1.0 | -63.2 | -13.0 | -50.2 | |
| 2509.80 | -22.7 | V | 3.0 | 36.4 | 1.0 | -58.1 | -13.0 | -45.1 | |
| 3346.40 | -19.9 | V | 3.0 | 36.1 | 1.0 | -55.1 | -13.0 | -42.1 | |
| 1673.20 | -27.2 | H | 3.0 | 37.0 | 1.0 | -63.1 | -13.0 | -50.1 | |
| 2509.80 | -23.8 | H | 3.0 | 36.4 | 1.0 | -59.2 | -13.0 | -46.2 | |
| 3346.40 | -21.0 | H | 3.0 | 36.1 | 1.0 | -56.1 | -13.0 | -43.1 | |
| High Ch, 846.6 | | | | | | | | | |
| 1693.20 | -26.8 | V | 3.0 | 37.0 | 1.0 | -62.7 | -13.0 | -49.7 | |
| 2539.80 | -23.5 | V | 3.0 | 36.4 | 1.0 | -58.9 | -13.0 | -45.9 | |
| 3386.40 | -20.9 | V | 3.0 | 36.1 | 1.0 | -56.0 | -13.0 | -43.0 | |
| 1693.20 | -27.6 | H | 3.0 | 37.0 | 1.0 | -63.6 | -13.0 | -50.6 | |
| 2539.80 | -23.1 | H | 3.0 | 36.4 | 1.0 | -58.5 | -13.0 | -45.5 | |
| 3386.40 | -20.4 | H | 3.0 | 36.1 | 1.0 | -55.5 | -13.0 | -42.5 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|-----------------------------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | |
| Configuration: | | X-pos EUT w/ AC Adapter + Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | Rel99 Band 5 Harmonics | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Band 5 | | | | | | | | | |
| REL99 | | | | | | | | | |
| Low Ch, 826.4 | | | | | | | | | |
| 1652.80 | -28.2 | V | 3.0 | 37.0 | 1.0 | -64.2 | -13.0 | -51.2 | |
| 2479.20 | -23.3 | V | 3.0 | 36.4 | 1.0 | -58.7 | -13.0 | -45.7 | |
| 3305.60 | -20.8 | V | 3.0 | 36.1 | 1.0 | -55.9 | -13.0 | -42.9 | |
| 1652.80 | -27.5 | H | 3.0 | 37.0 | 1.0 | -63.5 | -13.0 | -50.5 | |
| 2479.20 | -24.6 | H | 3.0 | 36.4 | 1.0 | -60.1 | -13.0 | -47.1 | |
| 3305.60 | -21.4 | H | 3.0 | 36.1 | 1.0 | -56.5 | -13.0 | -43.5 | |
| Mid Ch, 836.6 | | | | | | | | | |
| 1673.20 | -27.0 | V | 3.0 | 37.0 | 1.0 | -63.0 | -13.0 | -50.0 | |
| 2509.80 | -22.5 | V | 3.0 | 36.4 | 1.0 | -57.9 | -13.0 | -44.9 | |
| 3346.40 | -20.9 | V | 3.0 | 36.1 | 1.0 | -56.0 | -13.0 | -43.0 | |
| 1673.20 | -27.6 | H | 3.0 | 37.0 | 1.0 | -63.6 | -13.0 | -50.6 | |
| 2509.80 | -24.1 | H | 3.0 | 36.4 | 1.0 | -59.5 | -13.0 | -46.5 | |
| 3346.40 | -21.0 | H | 3.0 | 36.1 | 1.0 | -56.1 | -13.0 | -43.1 | |
| High Ch, 846.6 | | | | | | | | | |
| 1693.20 | -27.2 | V | 3.0 | 37.0 | 1.0 | -63.1 | -13.0 | -50.1 | |
| 2539.80 | -22.4 | V | 3.0 | 36.4 | 1.0 | -57.8 | -13.0 | -44.8 | |
| 3386.40 | -21.3 | V | 3.0 | 36.1 | 1.0 | -56.4 | -13.0 | -43.4 | |
| 1693.20 | -28.2 | H | 3.0 | 37.0 | 1.0 | -64.2 | -13.0 | -51.2 | |
| 2539.80 | -24.4 | H | 3.0 | 36.4 | 1.0 | -59.8 | -13.0 | -46.8 | |
| 3386.40 | -20.6 | H | 3.0 | 36.1 | 1.0 | -55.7 | -13.0 | -42.7 | |

CDMA

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

Company: LG Electronics
Project #: 15I21235
Date: 7/21/2015
Test Engineer: R.Alegre
Configuration: EUT w/ AC Adapter + HS
Mode: EVDO BC1

Chamber

3m Chamber

Pre-amplifier

T34 8449B

Filter

Filter 1

Limit

Part 24

| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
|-----------------------------|---------------------|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|
| Low Ch, 1851.25 MHz | | | | | | | | | |
| 3.703 | -11.9 | H | 3.0 | 35.4 | 1.0 | -46.3 | -13.0 | -33.3 | |
| 5.554 | -13.3 | H | 3.0 | 34.7 | 1.0 | -47.0 | -13.0 | -34.0 | |
| 7.405 | -11.7 | H | 3.0 | 34.9 | 1.0 | -45.6 | -13.0 | -32.6 | |
| 3.703 | -10.3 | V | 3.0 | 35.4 | 1.0 | -44.7 | -13.0 | -31.7 | |
| 5.554 | -16.3 | V | 3.0 | 34.7 | 1.0 | -50.0 | -13.0 | -37.0 | |
| 7.405 | -13.4 | V | 3.0 | 34.9 | 1.0 | -47.3 | -13.0 | -34.3 | |
| Mid Ch, 1880 MHz | | | | | | | | | |
| 3.760 | -11.6 | H | 3.0 | 35.3 | 1.0 | -45.9 | -13.0 | -32.9 | |
| 5.640 | -16.1 | H | 3.0 | 34.7 | 1.0 | -49.9 | -13.0 | -36.9 | |
| 7.520 | -12.4 | H | 3.0 | 34.9 | 1.0 | -46.3 | -13.0 | -33.3 | |
| 3.760 | -15.5 | V | 3.0 | 35.3 | 1.0 | -49.9 | -13.0 | -36.9 | |
| 5.640 | -14.5 | V | 3.0 | 34.7 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 7.520 | -12.9 | V | 3.0 | 34.9 | 1.0 | -46.8 | -13.0 | -33.8 | |
| High Ch, 1908.75 MHz | | | | | | | | | |
| 3.818 | -19.2 | H | 3.0 | 35.3 | 1.0 | -53.5 | -13.0 | -40.5 | |
| 5.726 | -13.3 | H | 3.0 | 34.7 | 1.0 | -47.0 | -13.0 | -34.0 | |
| 7.635 | -12.3 | H | 3.0 | 34.9 | 1.0 | -46.3 | -13.0 | -33.3 | |
| 3.818 | -15.3 | V | 3.0 | 35.3 | 1.0 | -49.6 | -13.0 | -36.6 | |
| 5.726 | -15.7 | V | 3.0 | 34.7 | 1.0 | -49.4 | -13.0 | -36.4 | |
| 7.635 | -13.3 | V | 3.0 | 34.9 | 1.0 | -47.3 | -13.0 | -34.3 | |

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

| UL Verification Services Chamber C Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|------------------------|--------------|-------------|---------------|------------|--------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/21/2015 | | | | | | | |
| Test Engineer: | | R.Alegre | | | | | | | |
| Configuration: | | EUT w/ AC Adapter + HS | | | | | | | |
| Mode: | | RTT BC1 HARM | | | | | | | |
| Chamber | | Pre-amplifier | | | Filter | | Limit | | |
| 3m Chamber | | T34 8449B | | | Filter 1 | | Part 24 | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| BC1 | | | | | | | | | |
| 1xRTT | | | | | | | | | |
| Low Ch, 1851.25 MHz | | | | | | | | | |
| 3.703 | -12.4 | H | 3.0 | 35.4 | 1.0 | -46.8 | -13.0 | -33.8 | |
| 5.554 | -12.7 | H | 3.0 | 34.7 | 1.0 | -46.4 | -13.0 | -33.4 | |
| 7.405 | -12.5 | H | 3.0 | 34.9 | 1.0 | -46.4 | -13.0 | -33.4 | |
| 3.703 | -10.1 | V | 3.0 | 35.4 | 1.0 | -44.5 | -13.0 | -31.5 | |
| 5.554 | -16.4 | V | 3.0 | 34.7 | 1.0 | -50.1 | -13.0 | -37.1 | |
| 7.405 | -13.3 | V | 3.0 | 34.9 | 1.0 | -47.2 | -13.0 | -34.2 | |
| Mid Ch, 1880 MHz | | | | | | | | | |
| 3.760 | -11.1 | H | 3.0 | 35.3 | 1.0 | -45.5 | -13.0 | -32.5 | |
| 5.640 | -16.5 | H | 3.0 | 34.7 | 1.0 | -50.2 | -13.0 | -37.2 | |
| 7.520 | -12.7 | H | 3.0 | 34.9 | 1.0 | -46.6 | -13.0 | -33.6 | |
| 3.760 | -15.3 | V | 3.0 | 35.3 | 1.0 | -49.7 | -13.0 | -36.7 | |
| 5.640 | -14.6 | V | 3.0 | 34.7 | 1.0 | -48.3 | -13.0 | -35.3 | |
| 7.520 | -12.8 | V | 3.0 | 34.9 | 1.0 | -46.8 | -13.0 | -33.8 | |
| High Ch, 1908.75 MHz | | | | | | | | | |
| 3.818 | -19.4 | H | 3.0 | 35.3 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 5.726 | -13.5 | H | 3.0 | 34.7 | 1.0 | -47.2 | -13.0 | -34.2 | |
| 7.635 | -12.0 | H | 3.0 | 34.9 | 1.0 | -45.9 | -13.0 | -32.9 | |
| 3.818 | -15.3 | V | 3.0 | 35.3 | 1.0 | -49.6 | -13.0 | -36.6 | |
| 5.726 | -15.8 | V | 3.0 | 34.7 | 1.0 | -49.6 | -13.0 | -36.6 | |
| 7.635 | -13.1 | V | 3.0 | 34.9 | 1.0 | -47.0 | -13.0 | -34.0 | |
| Rev. 03.03.09 | | | | | | | | | |
| Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

| UL Verification Services Chamber C Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|------------------------|--------------|-------------|---------------|------------|--------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/21/2015 | | | | | | | |
| Test Engineer: | | R.Alegre | | | | | | | |
| Configuration: | | EUT w/ AC Adapter + HS | | | | | | | |
| Mode: | | EVDO BC0 | | | | | | | |
| Chamber | | Pre-amplifier | | | Filter | | Limit | | |
| 3m Chamber | | T34 8449B | | | Filter 1 | | Part 22 | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 824.7MHz | | | | | | | | | |
| 1.649 | -27.4 | H | 3.0 | 37.4 | 1.0 | -63.8 | -13.0 | -50.8 | |
| 2.474 | -17.2 | H | 3.0 | 36.4 | 1.0 | -52.6 | -13.0 | -39.6 | |
| 3.299 | -22.1 | H | 3.0 | 35.8 | 1.0 | -56.9 | -13.0 | -43.9 | |
| 1.649 | -28.3 | V | 3.0 | 37.4 | 1.0 | -64.7 | -13.0 | -51.7 | |
| 2.474 | -20.7 | V | 3.0 | 36.4 | 1.0 | -56.1 | -13.0 | -43.1 | |
| 3.299 | -21.1 | V | 3.0 | 35.8 | 1.0 | -55.9 | -13.0 | -42.9 | |
| Mid Ch, 836.52MHz | | | | | | | | | |
| 1.673 | -24.8 | H | 3.0 | 37.3 | 1.0 | -61.1 | -13.0 | -48.1 | |
| 2.510 | -23.6 | H | 3.0 | 36.4 | 1.0 | -59.0 | -13.0 | -46.0 | |
| 3.346 | -21.5 | H | 3.0 | 35.8 | 1.0 | -56.3 | -13.0 | -43.3 | |
| 1.673 | -27.7 | V | 3.0 | 37.3 | 1.0 | -64.0 | -13.0 | -51.0 | |
| 2.510 | -18.2 | V | 3.0 | 36.4 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 3.346 | -21.7 | V | 3.0 | 35.8 | 1.0 | -56.4 | -13.0 | -43.4 | |
| High Ch, 848.31MHz | | | | | | | | | |
| 1.697 | -26.1 | H | 3.0 | 37.3 | 1.0 | -62.4 | -13.0 | -49.4 | |
| 2.545 | -23.0 | H | 3.0 | 36.3 | 1.0 | -58.3 | -13.0 | -45.3 | |
| 3.393 | -21.9 | H | 3.0 | 35.7 | 1.0 | -56.6 | -13.0 | -43.6 | |
| 1.697 | -27.3 | V | 3.0 | 37.3 | 1.0 | -63.6 | -13.0 | -50.6 | |
| 2.545 | -15.3 | V | 3.0 | 36.3 | 1.0 | -50.7 | -13.0 | -37.7 | |
| 3.393 | -22.0 | V | 3.0 | 35.7 | 1.0 | -56.7 | -13.0 | -43.7 | |
| Rev. 03.03.09 | | | | | | | | | |
| Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

| UL Verification Services Chamber C Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | |
|---|---------------------------|------------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|--|
| Company: | | LG Electronics | | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | | |
| Date: | | 7/21/2015 | | | | | | | | | |
| Test Engineer: | | R.Alegre | | | | | | | | | |
| Configuration: | | EUT w/ AC Adapter + HS | | | | | | | | | |
| Mode: | | RTT BC0 | | | | | | | | | |
| <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; background-color: #e0f7fa;">Chamber</div> <div style="border: 1px solid black; padding: 5px; background-color: #e0f7fa;">Pre-amplifier</div> <div style="border: 1px solid black; padding: 5px; background-color: #e0f7fa;">Filter</div> <div style="border: 1px solid black; padding: 5px; background-color: #e0f7fa;">Limit</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div style="border: 1px solid black; padding: 2px;">3m Chamber</div> <div style="border: 1px solid black; padding: 2px;">T34 8449B</div> <div style="border: 1px solid black; padding: 2px;">Filter 1</div> <div style="border: 1px solid black; padding: 2px;">Part 22</div> </div> | | | | | | | | | | | |
| Band | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| BC0 1xRTT | Low Ch, 824.7MHz | | | | | | | | | | |
| | | 1.649 | -27.4 | H | 3.0 | 37.4 | 1.0 | -63.8 | -13.0 | -50.8 | |
| | | 2.474 | -17.1 | H | 3.0 | 36.4 | 1.0 | -52.5 | -13.0 | -39.5 | |
| | | 3.299 | -22.2 | H | 3.0 | 35.8 | 1.0 | -57.0 | -13.0 | -44.0 | |
| | | 1.649 | -28.1 | V | 3.0 | 37.4 | 1.0 | -64.5 | -13.0 | -51.5 | |
| | | 2.474 | -20.6 | V | 3.0 | 36.4 | 1.0 | -56.0 | -13.0 | -43.0 | |
| | | 3.299 | -21.2 | V | 3.0 | 35.8 | 1.0 | -56.0 | -13.0 | -43.0 | |
| | Mid Ch, 836.52MHz | | | | | | | | | | |
| | | 1.673 | -24.8 | H | 3.0 | 37.3 | 1.0 | -61.2 | -13.0 | -48.2 | |
| | | 2.510 | -23.6 | H | 3.0 | 36.4 | 1.0 | -58.9 | -13.0 | -45.9 | |
| | | 3.346 | -21.5 | H | 3.0 | 35.8 | 1.0 | -56.2 | -13.0 | -43.2 | |
| | | 1.673 | -27.6 | V | 3.0 | 37.3 | 1.0 | -64.0 | -13.0 | -51.0 | |
| | | 2.510 | -18.5 | V | 3.0 | 36.4 | 1.0 | -53.8 | -13.0 | -40.8 | |
| | | 3.346 | -21.7 | V | 3.0 | 35.8 | 1.0 | -56.4 | -13.0 | -43.4 | |
| | High Ch, 848.31MHz | | | | | | | | | | |
| | 1.697 | -26.1 | H | 3.0 | 37.3 | 1.0 | -62.4 | -13.0 | -49.4 | | |
| | 2.545 | -22.9 | H | 3.0 | 36.3 | 1.0 | -58.2 | -13.0 | -45.2 | | |
| | 3.393 | -21.9 | H | 3.0 | 35.7 | 1.0 | -56.6 | -13.0 | -43.6 | | |
| | 1.697 | -27.4 | V | 3.0 | 37.3 | 1.0 | -63.7 | -13.0 | -50.7 | | |
| | 2.545 | -15.1 | V | 3.0 | 36.3 | 1.0 | -50.5 | -13.0 | -37.5 | | |
| | 3.393 | -21.9 | V | 3.0 | 35.7 | 1.0 | -56.6 | -13.0 | -43.6 | | |
| Rev. 03.03.09 | | | | | | | | | | | |
| Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |

| UL Verification Services Chamber C Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|------------------------|--------------|-------------|---------------|------------|--------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/21/2015 | | | | | | | |
| Test Engineer: | | R.Alegre | | | | | | | |
| Configuration: | | EUT w/ AC Adapter + HS | | | | | | | |
| Mode: | | EVDO BC10 | | | | | | | |
| Chamber | | Pre-amplifier | | | Filter | | Limit | | |
| 3m Chamber | | T34 8449B | | | Filter 1 | | Part 22 | | |
| f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 817.9MHz | | | | | | | | | |
| 1.636 | -26.9 | H | 3.0 | 37.4 | 1.0 | -63.3 | -13.0 | -50.3 | |
| 2.454 | -17.8 | H | 3.0 | 36.4 | 1.0 | -53.2 | -13.0 | -40.2 | |
| 3.272 | -22.4 | H | 3.0 | 35.8 | 1.0 | -57.2 | -13.0 | -44.2 | |
| 1.636 | -28.0 | V | 3.0 | 37.4 | 1.0 | -64.4 | -13.0 | -51.4 | |
| 2.454 | -23.5 | V | 3.0 | 36.4 | 1.0 | -58.9 | -13.0 | -45.9 | |
| 3.272 | -22.3 | V | 3.0 | 35.8 | 1.0 | -57.2 | -13.0 | -44.2 | |
| Mid Ch, 820.50MHz | | | | | | | | | |
| 1.641 | -26.9 | H | 3.0 | 37.4 | 1.0 | -63.3 | -13.0 | -50.3 | |
| 2.462 | -19.3 | H | 3.0 | 36.4 | 1.0 | -54.7 | -13.0 | -41.7 | |
| 3.282 | -21.9 | H | 3.0 | 35.8 | 1.0 | -56.8 | -13.0 | -43.8 | |
| 1.641 | -28.0 | V | 3.0 | 37.4 | 1.0 | -64.4 | -13.0 | -51.4 | |
| 2.462 | -21.9 | V | 3.0 | 36.4 | 1.0 | -57.3 | -13.0 | -44.3 | |
| 3.282 | -21.7 | V | 3.0 | 35.8 | 1.0 | -56.5 | -13.0 | -43.5 | |
| High Ch, 823.10MHz | | | | | | | | | |
| 1.646 | -27.2 | H | 3.0 | 37.4 | 1.0 | -63.5 | -13.0 | -50.5 | |
| 2.469 | -19.6 | H | 3.0 | 36.4 | 1.0 | -55.0 | -13.0 | -42.0 | |
| 3.292 | -21.8 | H | 3.0 | 35.8 | 1.0 | -56.6 | -13.0 | -43.6 | |
| 1.646 | -28.1 | V | 3.0 | 37.4 | 1.0 | -64.5 | -13.0 | -51.5 | |
| 2.469 | -18.9 | V | 3.0 | 36.4 | 1.0 | -54.3 | -13.0 | -41.3 | |
| 3.292 | -21.9 | V | 3.0 | 35.8 | 1.0 | -56.7 | -13.0 | -43.7 | |
| Rev. 03.03.09 | | | | | | | | | |
| Note: No other emissions were detected above the system noise floor. | | | | | | | | | |

| UL Verification Services Chamber C Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | |
|--|---------------------------|--------------------------|-----------------|--------------|---------------|-------------|--------------|-------------|------------|-------|--|
| Company: | | LG Electronics | | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | | |
| Date: | | 7/21/2015 | | | | | | | | | |
| Test Engineer: | | R.Alegre | | | | | | | | | |
| Configuration: | | EUT w/ AC Adapter + HS | | | | | | | | | |
| Mode: | | RTT BC10 | | | | | | | | | |
| Chamber | | Pre-amplifier | | | Filter | | Limit | | | | |
| 3m Chamber | | T34 8449B | | | Filter 1 | | Part 22 | | | | |
| Band | f GHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| BC10 1xRTT | Low Ch, 817.9MHz | | | | | | | | | | |
| | | 1.636 | -26.8 | H | 3.0 | 37.4 | 1.0 | -63.2 | -13.0 | -50.2 | |
| | | 2.454 | -17.6 | H | 3.0 | 36.4 | 1.0 | -53.0 | -13.0 | -40.0 | |
| | | 3.272 | -22.4 | H | 3.0 | 35.8 | 1.0 | -57.3 | -13.0 | -44.3 | |
| | | 1.636 | -28.0 | V | 3.0 | 37.4 | 1.0 | -64.4 | -13.0 | -51.4 | |
| | | 2.454 | -23.7 | V | 3.0 | 36.4 | 1.0 | -59.1 | -13.0 | -46.1 | |
| | | 3.272 | -22.1 | V | 3.0 | 35.8 | 1.0 | -56.9 | -13.0 | -43.9 | |
| | | Mid Ch, 820.50MHz | | | | | | | | | |
| | | 1.641 | -26.7 | H | 3.0 | 37.4 | 1.0 | -63.1 | -13.0 | -50.1 | |
| | | 2.462 | -19.1 | H | 3.0 | 36.4 | 1.0 | -54.5 | -13.0 | -41.5 | |
| | | 3.282 | -21.8 | H | 3.0 | 35.8 | 1.0 | -56.6 | -13.0 | -43.6 | |
| | | 1.641 | -27.9 | V | 3.0 | 37.4 | 1.0 | -64.3 | -13.0 | -51.3 | |
| | 2.462 | -22.0 | V | 3.0 | 36.4 | 1.0 | -57.4 | -13.0 | -44.4 | | |
| | 3.282 | -21.8 | V | 3.0 | 35.8 | 1.0 | -56.6 | -13.0 | -43.6 | | |
| | High Ch, 823.10MHz | | | | | | | | | | |
| | 1.646 | -27.2 | H | 3.0 | 37.4 | 1.0 | -63.6 | -13.0 | -50.6 | | |
| | 2.469 | -19.3 | H | 3.0 | 36.4 | 1.0 | -54.7 | -13.0 | -41.7 | | |
| | 3.292 | -21.6 | H | 3.0 | 35.8 | 1.0 | -56.4 | -13.0 | -43.4 | | |
| | 1.646 | -28.0 | V | 3.0 | 37.4 | 1.0 | -64.4 | -13.0 | -51.4 | | |
| | 2.469 | -19.0 | V | 3.0 | 36.4 | 1.0 | -54.4 | -13.0 | -41.4 | | |
| | 3.292 | -21.7 | V | 3.0 | 35.8 | 1.0 | -56.5 | -13.0 | -43.5 | | |
| Rev. 03.03.09 | | | | | | | | | | | |
| Note: No other emissions were detected above the system noise floor. | | | | | | | | | | | |

LTE Band 2

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_16QAM Band 2 Harmonics, 20MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1860 | | | | | | | | | |
| Band | 3720.00 | -18.2 | V | 3.0 | 35.8 | 1.0 | -53.0 | -13.0 | -40.0 |
| | 5580.00 | -16.6 | V | 3.0 | 35.5 | 1.0 | -51.1 | -13.0 | -38.1 |
| LTE2 | 7440.00 | -16.4 | V | 3.0 | 35.7 | 1.0 | -51.1 | -13.0 | -38.1 |
| | 3720.00 | -18.2 | H | 3.0 | 35.8 | 1.0 | -53.1 | -13.0 | -40.1 |
| 20MHz | 5580.00 | -15.3 | H | 3.0 | 35.5 | 1.0 | -49.7 | -13.0 | -36.7 |
| | 7440.00 | -15.0 | H | 3.0 | 35.7 | 1.0 | -49.7 | -13.0 | -36.7 |
| Mid Ch, 1880 | | | | | | | | | |
| 16QAM | 3760.00 | -18.4 | V | 3.0 | 35.8 | 1.0 | -53.2 | -13.0 | -40.2 |
| | 5640.00 | -17.4 | V | 3.0 | 35.5 | 1.0 | -51.8 | -13.0 | -38.8 |
| | 7520.00 | -15.2 | V | 3.0 | 35.7 | 1.0 | -50.0 | -13.0 | -37.0 |
| | 3760.00 | -18.7 | H | 3.0 | 35.8 | 1.0 | -53.5 | -13.0 | -40.5 |
| | 5640.00 | -17.4 | H | 3.0 | 35.5 | 1.0 | -51.8 | -13.0 | -38.8 |
| | 7520.00 | -14.6 | H | 3.0 | 35.7 | 1.0 | -49.3 | -13.0 | -36.3 |
| High Ch, 1900 | | | | | | | | | |
| | 3800.00 | -17.1 | V | 3.0 | 35.8 | 1.0 | -51.9 | -13.0 | -38.9 |
| | 5700.00 | -17.3 | V | 3.0 | 35.5 | 1.0 | -51.8 | -13.0 | -38.8 |
| | 7600.00 | -14.7 | V | 3.0 | 35.8 | 1.0 | -49.5 | -13.0 | -36.5 |
| | 3800.00 | -17.7 | H | 3.0 | 35.8 | 1.0 | -52.5 | -13.0 | -39.5 |
| | 5700.00 | -16.4 | H | 3.0 | 35.5 | 1.0 | -50.9 | -13.0 | -37.9 |
| | 7600.00 | -14.6 | H | 3.0 | 35.8 | 1.0 | -49.4 | -13.0 | -36.4 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_QPSK Band 2 Harmonics, 20MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1860 | | | | | | | | | |
| Band | 3720.00 | -18.4 | V | 3.0 | 35.8 | 1.0 | -53.3 | -13.0 | -40.3 |
| | 5580.00 | -17.0 | V | 3.0 | 35.5 | 1.0 | -51.4 | -13.0 | -38.4 |
| LTE2 | 7440.00 | -15.5 | V | 3.0 | 35.7 | 1.0 | -50.2 | -13.0 | -37.2 |
| | 3720.00 | -18.6 | H | 3.0 | 35.8 | 1.0 | -53.4 | -13.0 | -40.4 |
| | 5580.00 | -15.9 | H | 3.0 | 35.5 | 1.0 | -50.4 | -13.0 | -37.4 |
| 20MHz | 7440.00 | -14.4 | H | 3.0 | 35.7 | 1.0 | -49.2 | -13.0 | -36.2 |
| Mid Ch, 1880 | | | | | | | | | |
| QPSK | 3760.00 | -16.2 | V | 3.0 | 35.8 | 1.0 | -51.0 | -13.0 | -38.0 |
| | 5640.00 | -16.5 | V | 3.0 | 35.5 | 1.0 | -51.0 | -13.0 | -38.0 |
| | 7520.00 | -15.4 | V | 3.0 | 35.7 | 1.0 | -50.1 | -13.0 | -37.1 |
| | 3760.00 | -18.4 | H | 3.0 | 35.8 | 1.0 | -53.2 | -13.0 | -40.2 |
| | 5640.00 | -16.9 | H | 3.0 | 35.5 | 1.0 | -51.4 | -13.0 | -38.4 |
| | 7520.00 | -14.0 | H | 3.0 | 35.7 | 1.0 | -48.8 | -13.0 | -35.8 |
| High Ch, 1900 | | | | | | | | | |
| | 3800.00 | -17.7 | V | 3.0 | 35.8 | 1.0 | -52.5 | -13.0 | -39.5 |
| | 5700.00 | -16.8 | V | 3.0 | 35.5 | 1.0 | -51.3 | -13.0 | -38.3 |
| | 7600.00 | -15.7 | V | 3.0 | 35.8 | 1.0 | -50.5 | -13.0 | -37.5 |
| | 3800.00 | -18.6 | H | 3.0 | 35.8 | 1.0 | -53.4 | -13.0 | -40.4 |
| | 5700.00 | -16.3 | H | 3.0 | 35.5 | 1.0 | -50.8 | -13.0 | -37.8 |
| | 7600.00 | -14.3 | H | 3.0 | 35.8 | 1.0 | -49.1 | -13.0 | -36.1 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_16QAM Band 2 Harmonics, 15MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1857.5 | | | | | | | | | |
| Band | 3715.00 | -18.2 | V | 3.0 | 35.8 | 1.0 | -53.0 | -13.0 | -40.0 |
| | 5572.50 | -16.1 | V | 3.0 | 35.5 | 1.0 | -50.5 | -13.0 | -37.5 |
| LTE2 | 7430.00 | -16.0 | V | 3.0 | 35.7 | 1.0 | -50.8 | -13.0 | -37.8 |
| | 3715.00 | -18.5 | H | 3.0 | 35.8 | 1.0 | -53.3 | -13.0 | -40.3 |
| | 5572.50 | -14.6 | H | 3.0 | 35.5 | 1.0 | -49.1 | -13.0 | -36.1 |
| 15MHz | 7430.00 | -14.7 | H | 3.0 | 35.7 | 1.0 | -49.4 | -13.0 | -36.4 |
| Mid Ch, 1880 | | | | | | | | | |
| 16QAM | 3760.00 | -18.9 | V | 3.0 | 35.8 | 1.0 | -53.7 | -13.0 | -40.7 |
| | 5640.00 | -17.7 | V | 3.0 | 35.5 | 1.0 | -52.2 | -13.0 | -39.2 |
| | 7520.00 | -14.4 | V | 3.0 | 35.7 | 1.0 | -49.2 | -13.0 | -36.2 |
| | 3760.00 | -18.7 | H | 3.0 | 35.8 | 1.0 | -53.6 | -13.0 | -40.6 |
| | 5640.00 | -16.2 | H | 3.0 | 35.5 | 1.0 | -50.7 | -13.0 | -37.7 |
| | 7520.00 | -13.8 | H | 3.0 | 35.7 | 1.0 | -48.6 | -13.0 | -35.6 |
| High Ch, 1902.5 | | | | | | | | | |
| | 3805.00 | -18.1 | V | 3.0 | 35.8 | 1.0 | -52.8 | -13.0 | -39.8 |
| | 5707.50 | -16.6 | V | 3.0 | 35.5 | 1.0 | -51.1 | -13.0 | -38.1 |
| | 7610.00 | -15.3 | V | 3.0 | 35.8 | 1.0 | -50.0 | -13.0 | -37.0 |
| | 3805.00 | -17.6 | H | 3.0 | 35.8 | 1.0 | -52.4 | -13.0 | -39.4 |
| | 5707.50 | -17.0 | H | 3.0 | 35.5 | 1.0 | -51.5 | -13.0 | -38.5 |
| | 7610.00 | -14.1 | H | 3.0 | 35.8 | 1.0 | -48.8 | -13.0 | -35.8 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|--|-----------------|--|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | | |
| Location: | | Chamber A | | | | | | | | |
| Mode: | | LTE_QPSK Band 2 Harmonics, 15MHz Bandwidth | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | Low Ch, 1857.5 | | | | | | | | | |
| | 3715.00 | -17.5 | V | 3.0 | 35.8 | 1.0 | -52.4 | -13.0 | -39.4 | |
| LTE2 | 5572.50 | -16.5 | V | 3.0 | 35.5 | 1.0 | -51.0 | -13.0 | -38.0 | |
| | 7430.00 | -16.0 | V | 3.0 | 35.7 | 1.0 | -50.7 | -13.0 | -37.7 | |
| 15MHz | 3715.00 | -18.8 | H | 3.0 | 35.8 | 1.0 | -53.7 | -13.0 | -40.7 | |
| | 5572.50 | -15.1 | H | 3.0 | 35.5 | 1.0 | -49.5 | -13.0 | -36.5 | |
| QPSK | 7430.00 | -14.8 | H | 3.0 | 35.7 | 1.0 | -49.6 | -13.0 | -36.6 | |
| | Mid Ch, 1880 | | | | | | | | | |
| | 3760.00 | -18.4 | V | 3.0 | 35.8 | 1.0 | -53.2 | -13.0 | -40.2 | |
| | 5640.00 | -17.8 | V | 3.0 | 35.5 | 1.0 | -52.3 | -13.0 | -39.3 | |
| | 7520.00 | -15.6 | V | 3.0 | 35.7 | 1.0 | -50.4 | -13.0 | -37.4 | |
| | 3760.00 | -17.1 | H | 3.0 | 35.8 | 1.0 | -51.9 | -13.0 | -38.9 | |
| | 5640.00 | -16.2 | H | 3.0 | 35.5 | 1.0 | -50.7 | -13.0 | -37.7 | |
| | 7520.00 | -14.7 | H | 3.0 | 35.7 | 1.0 | -49.5 | -13.0 | -36.5 | |
| | High Ch, 1902.5 | | | | | | | | | |
| | 3805.00 | -18.6 | V | 3.0 | 35.8 | 1.0 | -53.3 | -13.0 | -40.3 | |
| | 5707.50 | -17.4 | V | 3.0 | 35.5 | 1.0 | -51.9 | -13.0 | -38.9 | |
| | 7610.00 | -13.4 | V | 3.0 | 35.8 | 1.0 | -48.1 | -13.0 | -35.1 | |
| | 3805.00 | -17.7 | H | 3.0 | 35.8 | 1.0 | -52.5 | -13.0 | -39.5 | |
| | 5707.50 | -15.9 | H | 3.0 | 35.5 | 1.0 | -50.4 | -13.0 | -37.4 | |
| | 7610.00 | -14.6 | H | 3.0 | 35.8 | 1.0 | -49.4 | -13.0 | -36.4 | |

| UL Verification Services, Inc. | | | | | | | | | | |
|---|----------------------|---|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|
| Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
| Company: | | LG Electronics | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/16/2015 | | | | | | | | |
| Test Engineer: | | D. Mun | | | | | | | | |
| Configuration: | | EUT w/ AC Charger + HS | | | | | | | | |
| Location: | | Chamber A | | | | | | | | |
| Mode: | | LTE_16QAM Band 2 Harmonics, 10MHz Bandwidth | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band LTE2 10MHz 16QAM | Low Ch, 1855 | | | | | | | | | |
| | 3710.00 | -18.5 | V | 3.0 | 35.9 | 1.0 | -53.3 | -13.0 | -40.3 | |
| | 5565.00 | -17.5 | V | 3.0 | 35.5 | 1.0 | -52.0 | -13.0 | -39.0 | |
| | 7420.00 | -15.0 | V | 3.0 | 35.7 | 1.0 | -49.8 | -13.0 | -36.8 | |
| | 3710.00 | -19.1 | H | 3.0 | 35.9 | 1.0 | -53.9 | -13.0 | -40.9 | |
| | 5565.00 | -17.1 | H | 3.0 | 35.5 | 1.0 | -51.6 | -13.0 | -38.6 | |
| | 7420.00 | -13.9 | H | 3.0 | 35.7 | 1.0 | -48.6 | -13.0 | -35.6 | |
| | Mid Ch, 1880 | | | | | | | | | |
| | 3760.00 | -18.9 | V | 3.0 | 35.8 | 1.0 | -53.7 | -13.0 | -40.7 | |
| | 5640.00 | -17.4 | V | 3.0 | 35.5 | 1.0 | -51.9 | -13.0 | -38.9 | |
| | 7520.00 | -14.8 | V | 3.0 | 35.7 | 1.0 | -49.6 | -13.0 | -36.6 | |
| | 3760.00 | -18.3 | H | 3.0 | 35.8 | 1.0 | -53.1 | -13.0 | -40.1 | |
| | 5640.00 | -16.4 | H | 3.0 | 35.5 | 1.0 | -50.9 | -13.0 | -37.9 | |
| | 7520.00 | -14.3 | H | 3.0 | 35.7 | 1.0 | -49.1 | -13.0 | -36.1 | |
| | High Ch, 1905 | | | | | | | | | |
| | 3810.00 | -17.1 | V | 3.0 | 35.8 | 1.0 | -51.9 | -13.0 | -38.9 | |
| | 5715.00 | -17.4 | V | 3.0 | 35.5 | 1.0 | -51.9 | -13.0 | -38.9 | |
| | 7620.00 | -14.6 | V | 3.0 | 35.8 | 1.0 | -49.4 | -13.0 | -36.4 | |
| | 3810.00 | -19.0 | H | 3.0 | 35.8 | 1.0 | -53.8 | -13.0 | -40.8 | |
| | 5715.00 | -16.8 | H | 3.0 | 35.5 | 1.0 | -51.3 | -13.0 | -38.3 | |
| | 7620.00 | -13.7 | H | 3.0 | 35.8 | 1.0 | -48.5 | -13.0 | -35.5 | |

| UL Verification Services, Inc. | | | | | | | | | | |
|---|---------------------|--|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|
| Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
| Company: | | LG Electronics | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/16/2015 | | | | | | | | |
| Test Engineer: | | D. Mun | | | | | | | | |
| Configuration: | | EUT w/ AC Charger + HS | | | | | | | | |
| Location: | | Chamber A | | | | | | | | |
| Mode: | | LTE_QPSK Band 2 Harmonics, 10MHz Bandwidth | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | Low Ch, 1855 | | | | | | | | | |
| Band | 3710.00 | -18.6 | V | 3.0 | 35.9 | 1.0 | -53.4 | -13.0 | -40.4 | |
| | 5565.00 | -16.6 | V | 3.0 | 35.5 | 1.0 | -51.1 | -13.0 | -38.1 | |
| | 7420.00 | -13.9 | V | 3.0 | 35.7 | 1.0 | -48.6 | -13.0 | -35.6 | |
| LTE2 | 3710.00 | -18.5 | H | 3.0 | 35.9 | 1.0 | -53.4 | -13.0 | -40.4 | |
| | 5565.00 | -17.0 | H | 3.0 | 35.5 | 1.0 | -51.5 | -13.0 | -38.5 | |
| | 7420.00 | -14.7 | H | 3.0 | 35.7 | 1.0 | -49.4 | -13.0 | -36.4 | |
| 10MHz | Mid Ch, 1880 | | | | | | | | | |
| | 3760.00 | -18.6 | V | 3.0 | 35.8 | 1.0 | -53.4 | -13.0 | -40.4 | |
| | 5640.00 | -17.2 | V | 3.0 | 35.5 | 1.0 | -51.7 | -13.0 | -38.7 | |
| QPSK | 7520.00 | -15.6 | V | 3.0 | 35.7 | 1.0 | -50.4 | -13.0 | -37.4 | |
| | 3760.00 | -18.2 | H | 3.0 | 35.8 | 1.0 | -53.0 | -13.0 | -40.0 | |
| | 5640.00 | -17.0 | H | 3.0 | 35.5 | 1.0 | -51.5 | -13.0 | -38.5 | |
| High Ch, 1905 | | | | | | | | | | |
| | 7520.00 | -14.0 | H | 3.0 | 35.7 | 1.0 | -48.7 | -13.0 | -35.7 | |
| | 3810.00 | -18.0 | V | 3.0 | 35.8 | 1.0 | -52.8 | -13.0 | -39.8 | |
| | 5715.00 | -17.4 | V | 3.0 | 35.5 | 1.0 | -51.9 | -13.0 | -38.9 | |
| | 7620.00 | -14.7 | V | 3.0 | 35.8 | 1.0 | -49.4 | -13.0 | -36.4 | |
| | 3810.00 | -18.3 | H | 3.0 | 35.8 | 1.0 | -53.0 | -13.0 | -40.0 | |
| | 5715.00 | -16.2 | H | 3.0 | 35.5 | 1.0 | -50.7 | -13.0 | -37.7 | |
| | 7620.00 | -13.7 | H | 3.0 | 35.8 | 1.0 | -48.4 | -13.0 | -35.4 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_16QAM Band 2 Harmonics, 5MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1852.5 | | | | | | | | | |
| Band | 3705.00 | -18.5 | V | 3.0 | 35.9 | 1.0 | -53.4 | -13.0 | -40.4 |
| | 5557.50 | -16.3 | V | 3.0 | 35.5 | 1.0 | -50.8 | -13.0 | -37.8 |
| LTE2 | 7410.00 | -16.3 | V | 3.0 | 35.7 | 1.0 | -51.0 | -13.0 | -38.0 |
| | 3705.00 | -17.9 | H | 3.0 | 35.9 | 1.0 | -52.8 | -13.0 | -39.8 |
| | 5557.50 | -15.4 | H | 3.0 | 35.5 | 1.0 | -49.9 | -13.0 | -36.9 |
| 5MHz | 7410.00 | -14.3 | H | 3.0 | 35.7 | 1.0 | -49.1 | -13.0 | -36.1 |
| Mid Ch, 1880 | | | | | | | | | |
| 16QAM | 3760.00 | -18.9 | V | 3.0 | 35.8 | 1.0 | -53.7 | -13.0 | -40.7 |
| | 5640.00 | -17.8 | V | 3.0 | 35.5 | 1.0 | -52.3 | -13.0 | -39.3 |
| | 7520.00 | -15.8 | V | 3.0 | 35.7 | 1.0 | -50.5 | -13.0 | -37.5 |
| | 3760.00 | -18.2 | H | 3.0 | 35.8 | 1.0 | -53.0 | -13.0 | -40.0 |
| | 5640.00 | -17.3 | H | 3.0 | 35.5 | 1.0 | -51.8 | -13.0 | -38.8 |
| | 7520.00 | -14.6 | H | 3.0 | 35.7 | 1.0 | -49.3 | -13.0 | -36.3 |
| High Ch, 1907.5 | | | | | | | | | |
| | 3815.00 | -17.7 | V | 3.0 | 35.8 | 1.0 | -52.5 | -13.0 | -39.5 |
| | 5722.50 | -17.1 | V | 3.0 | 35.5 | 1.0 | -51.6 | -13.0 | -38.6 |
| | 7630.00 | -14.9 | V | 3.0 | 35.8 | 1.0 | -49.6 | -13.0 | -36.6 |
| | 3815.00 | -17.9 | H | 3.0 | 35.8 | 1.0 | -52.7 | -13.0 | -39.7 |
| | 5722.50 | -16.6 | H | 3.0 | 35.5 | 1.0 | -51.1 | -13.0 | -38.1 |
| | 7630.00 | -14.4 | H | 3.0 | 35.8 | 1.0 | -49.2 | -13.0 | -36.2 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | |
|--|-----------------|---|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|--|
| Company: | | LG | | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | | | |
| Location: | | Chamber A | | | | | | | | | |
| Mode: | | LTE_QPSK Band 2 Harmonics, 5MHz Bandwidth | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| Band | Low Ch, 1852.5 | | | | | | | | | | |
| | 3705.00 | -17.1 | V | 3.0 | 35.9 | 1.0 | -51.9 | -13.0 | -38.9 | | |
| | 5557.50 | -16.5 | V | 3.0 | 35.5 | 1.0 | -51.0 | -13.0 | -38.0 | | |
| | LTE2 | 7410.00 | -15.7 | V | 3.0 | 35.7 | 1.0 | -50.5 | -13.0 | -37.5 | |
| | | 3705.00 | -18.6 | H | 3.0 | 35.9 | 1.0 | -53.4 | -13.0 | -40.4 | |
| | 5MHz | 5557.50 | -15.1 | H | 3.0 | 35.5 | 1.0 | -49.6 | -13.0 | -36.6 | |
| 7410.00 | | -14.7 | H | 3.0 | 35.7 | 1.0 | -49.4 | -13.0 | -36.4 | | |
| QPSK | Mid Ch, 1880 | | | | | | | | | | |
| | 3760.00 | -19.1 | V | 3.0 | 35.8 | 1.0 | -53.9 | -13.0 | -40.9 | | |
| | 5640.00 | -17.1 | V | 3.0 | 35.5 | 1.0 | -51.6 | -13.0 | -38.6 | | |
| | 7520.00 | -15.8 | V | 3.0 | 35.7 | 1.0 | -50.6 | -13.0 | -37.6 | | |
| | 3760.00 | -18.2 | H | 3.0 | 35.8 | 1.0 | -53.0 | -13.0 | -40.0 | | |
| | 5640.00 | -16.3 | H | 3.0 | 35.5 | 1.0 | -50.8 | -13.0 | -37.8 | | |
| | High Ch, 1907.5 | | | | | | | | | | |
| | 7520.00 | -14.0 | H | 3.0 | 35.7 | 1.0 | -48.8 | -13.0 | -35.8 | | |
| | 3815.00 | -17.5 | V | 3.0 | 35.8 | 1.0 | -52.3 | -13.0 | -39.3 | | |
| | 5722.50 | -16.7 | V | 3.0 | 35.5 | 1.0 | -51.2 | -13.0 | -38.2 | | |
| | 7630.00 | -15.9 | V | 3.0 | 35.8 | 1.0 | -50.7 | -13.0 | -37.7 | | |
| | 3815.00 | -18.0 | H | 3.0 | 35.8 | 1.0 | -52.7 | -13.0 | -39.7 | | |
| | 5722.50 | -15.6 | H | 3.0 | 35.5 | 1.0 | -50.1 | -13.0 | -37.1 | | |
| | 7630.00 | -13.7 | H | 3.0 | 35.8 | 1.0 | -48.4 | -13.0 | -35.4 | | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_16QAM Band 2 Harmonics, 3MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Low Ch, 1851.5 | | | | | | | | | |
| 3703.00 | -18.9 | V | 3.0 | 35.9 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 5554.50 | -16.3 | V | 3.0 | 35.5 | 1.0 | -50.7 | -13.0 | -37.7 | |
| LTE2 | | | | | | | | | |
| 7406.00 | -15.0 | V | 3.0 | 35.7 | 1.0 | -49.7 | -13.0 | -36.7 | |
| 3703.00 | -18.4 | H | 3.0 | 35.9 | 1.0 | -53.2 | -13.0 | -40.2 | |
| 5554.50 | -15.0 | H | 3.0 | 35.5 | 1.0 | -49.5 | -13.0 | -36.5 | |
| 3MHz | | | | | | | | | |
| 7406.00 | -14.3 | H | 3.0 | 35.7 | 1.0 | -49.1 | -13.0 | -36.1 | |
| 16QAM | | | | | | | | | |
| Mid Ch, 1880 | | | | | | | | | |
| 3760.00 | -16.2 | V | 3.0 | 35.8 | 1.0 | -51.1 | -13.0 | -38.1 | |
| 5640.00 | -15.5 | V | 3.0 | 35.5 | 1.0 | -50.0 | -13.0 | -37.0 | |
| 7520.00 | -13.0 | V | 3.0 | 35.7 | 1.0 | -47.8 | -13.0 | -34.8 | |
| 3760.00 | -16.4 | H | 3.0 | 35.8 | 1.0 | -51.2 | -13.0 | -38.2 | |
| 5640.00 | -15.1 | H | 3.0 | 35.5 | 1.0 | -49.6 | -13.0 | -36.6 | |
| 7520.00 | -12.5 | H | 3.0 | 35.7 | 1.0 | -47.2 | -13.0 | -34.2 | |
| High Ch, 1908.5 | | | | | | | | | |
| 3817.00 | -18.1 | V | 3.0 | 35.8 | 1.0 | -52.9 | -13.0 | -39.9 | |
| 5725.50 | -13.5 | V | 3.0 | 35.5 | 1.0 | -48.0 | -13.0 | -35.0 | |
| 7634.00 | -15.9 | V | 3.0 | 35.8 | 1.0 | -50.7 | -13.0 | -37.7 | |
| 3817.00 | -18.1 | H | 3.0 | 35.8 | 1.0 | -52.9 | -13.0 | -39.9 | |
| 5725.50 | -15.8 | H | 3.0 | 35.5 | 1.0 | -50.3 | -13.0 | -37.3 | |
| 7634.00 | -14.0 | H | 3.0 | 35.8 | 1.0 | -48.7 | -13.0 | -35.7 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | |
|--|-----------------|---|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|--|
| Company: | | LG | | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | | | |
| Location: | | Chamber A | | | | | | | | | |
| Mode: | | LTE_QPSK Band 2 Harmonics, 3MHz Bandwidth | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| Band | Low Ch, 1851.5 | | | | | | | | | | |
| | 3703.00 | -17.8 | V | 3.0 | 35.9 | 1.0 | -52.6 | -13.0 | -39.6 | | |
| | 5554.50 | -16.1 | V | 3.0 | 35.5 | 1.0 | -50.6 | -13.0 | -37.6 | | |
| | LTE2 | 7406.00 | -15.3 | V | 3.0 | 35.7 | 1.0 | -50.0 | -13.0 | -37.0 | |
| | | 3703.00 | -19.0 | H | 3.0 | 35.9 | 1.0 | -53.9 | -13.0 | -40.9 | |
| | 3MHz | 5554.50 | -15.5 | H | 3.0 | 35.5 | 1.0 | -49.9 | -13.0 | -36.9 | |
| 7406.00 | | -14.5 | H | 3.0 | 35.7 | 1.0 | -49.2 | -13.0 | -36.2 | | |
| QPSK | Mid Ch, 1880 | | | | | | | | | | |
| | 3760.00 | -14.8 | V | 3.0 | 35.8 | 1.0 | -49.6 | -13.0 | -36.6 | | |
| | 5640.00 | -15.0 | V | 3.0 | 35.5 | 1.0 | -49.5 | -13.0 | -36.5 | | |
| | 7520.00 | -12.5 | V | 3.0 | 35.7 | 1.0 | -47.2 | -13.0 | -34.2 | | |
| | 3760.00 | -16.6 | H | 3.0 | 35.8 | 1.0 | -51.5 | -13.0 | -38.5 | | |
| | 5640.00 | -14.7 | H | 3.0 | 35.5 | 1.0 | -49.1 | -13.0 | -36.1 | | |
| | High Ch, 1908.5 | | | | | | | | | | |
| | 3817.00 | -18.4 | V | 3.0 | 35.8 | 1.0 | -53.2 | -13.0 | -40.2 | | |
| | 5725.50 | -13.2 | V | 3.0 | 35.5 | 1.0 | -47.7 | -13.0 | -34.7 | | |
| | 7634.00 | -14.2 | V | 3.0 | 35.8 | 1.0 | -49.0 | -13.0 | -36.0 | | |
| | 3817.00 | -17.5 | H | 3.0 | 35.8 | 1.0 | -52.3 | -13.0 | -39.3 | | |
| | 5725.50 | -16.1 | H | 3.0 | 35.5 | 1.0 | -50.6 | -13.0 | -37.6 | | |
| | 7634.00 | -13.9 | H | 3.0 | 35.8 | 1.0 | -48.6 | -13.0 | -35.6 | | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_16QAM Band 2 Harmonics, 1.4MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Low Ch, 1850.7 | | | | | | | | | |
| 3701.40 | -16.6 | V | 3.0 | 35.9 | 1.0 | -51.5 | -13.0 | -38.5 | |
| 5552.10 | -11.7 | V | 3.0 | 35.5 | 1.0 | -46.2 | -13.0 | -33.2 | |
| LTE2 | | | | | | | | | |
| 7402.80 | -13.2 | V | 3.0 | 35.7 | 1.0 | -47.9 | -13.0 | -34.9 | |
| 3701.40 | -16.1 | H | 3.0 | 35.9 | 1.0 | -50.9 | -13.0 | -37.9 | |
| 5552.10 | -13.3 | H | 3.0 | 35.5 | 1.0 | -47.8 | -13.0 | -34.8 | |
| 1.4MHz | | | | | | | | | |
| 7402.80 | -12.3 | H | 3.0 | 35.7 | 1.0 | -47.0 | -13.0 | -34.0 | |
| Mid Ch, 1880 | | | | | | | | | |
| 3760.00 | -16.5 | V | 3.0 | 35.8 | 1.0 | -44.7 | -13.0 | -31.7 | |
| 16QAM | | | | | | | | | |
| 5640.00 | -14.7 | V | 3.0 | 35.5 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 7520.00 | -13.0 | V | 3.0 | 35.7 | 1.0 | -47.8 | -13.0 | -34.8 | |
| 3760.00 | -17.3 | H | 3.0 | 35.8 | 1.0 | -52.1 | -13.0 | -39.1 | |
| 5640.00 | -14.8 | H | 3.0 | 35.5 | 1.0 | -49.3 | -13.0 | -36.3 | |
| 7520.00 | -11.2 | H | 3.0 | 35.7 | 1.0 | -45.9 | -13.0 | -32.9 | |
| High Ch, 1909.3 | | | | | | | | | |
| 3818.60 | -15.6 | V | 3.0 | 35.8 | 1.0 | -50.4 | -13.0 | -37.4 | |
| 5727.90 | -9.4 | V | 3.0 | 35.5 | 1.0 | -43.9 | -13.0 | -30.9 | |
| 7637.20 | -13.0 | V | 3.0 | 35.8 | 1.0 | -47.7 | -13.0 | -34.7 | |
| 3818.60 | -16.5 | H | 3.0 | 35.8 | 1.0 | -51.3 | -13.0 | -38.3 | |
| 5727.90 | -12.9 | H | 3.0 | 35.5 | 1.0 | -47.4 | -13.0 | -34.4 | |
| 7637.20 | -12.0 | H | 3.0 | 35.8 | 1.0 | -46.7 | -13.0 | -33.7 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_QPSK Band 2 Harmonics, 1.4MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1850.7 | | | | | | | | | |
| Band | 3701.40 | -15.5 | V | 3.0 | 35.9 | 1.0 | -50.4 | -13.0 | -37.4 |
| | 5552.10 | -12.4 | V | 3.0 | 35.5 | 1.0 | -46.9 | -13.0 | -33.9 |
| LTE2 | 7402.80 | -13.0 | V | 3.0 | 35.7 | 1.0 | -47.7 | -13.0 | -34.7 |
| | 3701.40 | -16.0 | H | 3.0 | 35.9 | 1.0 | -50.9 | -13.0 | -37.9 |
| | 5552.10 | -13.7 | H | 3.0 | 35.5 | 1.0 | -48.2 | -13.0 | -35.2 |
| 1.4MHz | 7402.80 | -12.4 | H | 3.0 | 35.7 | 1.0 | -47.1 | -13.0 | -34.1 |
| Mid Ch, 1880 | | | | | | | | | |
| QPSK | 3760.00 | -16.4 | V | 3.0 | 35.8 | 1.0 | -51.2 | -13.0 | -38.2 |
| | 5640.00 | -14.4 | V | 3.0 | 35.5 | 1.0 | -48.9 | -13.0 | -35.9 |
| | 7520.00 | -12.9 | V | 3.0 | 35.7 | 1.0 | -47.7 | -13.0 | -34.7 |
| | 3760.00 | -16.5 | H | 3.0 | 35.8 | 1.0 | -51.3 | -13.0 | -38.3 |
| | 5640.00 | -15.1 | H | 3.0 | 35.5 | 1.0 | -49.6 | -13.0 | -36.6 |
| | 7520.00 | -12.2 | H | 3.0 | 35.7 | 1.0 | -47.0 | -13.0 | -34.0 |
| High Ch, 1909.3 | | | | | | | | | |
| | 3818.60 | -15.4 | V | 3.0 | 35.8 | 1.0 | -50.2 | -13.0 | -37.2 |
| | 5727.90 | -9.4 | V | 3.0 | 35.5 | 1.0 | -43.9 | -13.0 | -30.9 |
| | 7637.20 | -12.9 | V | 3.0 | 35.8 | 1.0 | -47.6 | -13.0 | -34.6 |
| | 3818.60 | -16.7 | H | 3.0 | 35.8 | 1.0 | -51.5 | -13.0 | -38.5 |
| | 5727.90 | -11.6 | H | 3.0 | 35.5 | 1.0 | -46.1 | -13.0 | -33.1 |
| | 7637.20 | -10.9 | H | 3.0 | 35.8 | 1.0 | -45.7 | -13.0 | -32.7 |

LTE Band 4

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/22/2015 | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | |
| Configuration: | | X-Pos, EUT Only | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_16QAM Band 4 Harmonics, 20MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1720 | | | | | | | | | |
| Band | 3440.00 | -18.3 | V | 3.0 | 36.0 | 1.0 | -53.3 | -13.0 | -40.3 |
| | 5160.00 | -16.0 | V | 3.0 | 35.4 | 1.0 | -50.4 | -13.0 | -37.4 |
| LTE4 | 6880.00 | -14.3 | V | 3.0 | 35.7 | 1.0 | -49.0 | -13.0 | -36.0 |
| | 3440.00 | -18.5 | H | 3.0 | 36.0 | 1.0 | -53.5 | -13.0 | -40.5 |
| 20MHz | 5160.00 | -17.0 | H | 3.0 | 35.4 | 1.0 | -51.4 | -13.0 | -38.4 |
| | 6880.00 | -13.1 | H | 3.0 | 35.7 | 1.0 | -47.8 | -13.0 | -34.8 |
| Mid Ch, 1732.5 | | | | | | | | | |
| 16QAM | 3465.00 | -19.6 | V | 3.0 | 36.0 | 1.0 | -54.6 | -13.0 | -41.6 |
| | 5197.50 | -17.1 | V | 3.0 | 35.4 | 1.0 | -51.5 | -13.0 | -38.5 |
| | 6930.00 | -14.1 | V | 3.0 | 35.7 | 1.0 | -48.8 | -13.0 | -35.8 |
| | 3465.00 | -18.0 | H | 3.0 | 36.0 | 1.0 | -53.1 | -13.0 | -40.1 |
| | 5197.50 | -15.3 | H | 3.0 | 35.4 | 1.0 | -49.8 | -13.0 | -36.8 |
| | 6930.00 | -12.9 | H | 3.0 | 35.7 | 1.0 | -47.5 | -13.0 | -34.5 |
| High Ch, 1745 | | | | | | | | | |
| | 3490.00 | -19.6 | V | 3.0 | 36.0 | 1.0 | -54.7 | -13.0 | -41.7 |
| | 5235.00 | -16.6 | V | 3.0 | 35.4 | 1.0 | -51.0 | -13.0 | -38.0 |
| | 6980.00 | -13.4 | V | 3.0 | 35.7 | 1.0 | -48.1 | -13.0 | -35.1 |
| | 3490.00 | -18.2 | H | 3.0 | 36.0 | 1.0 | -53.3 | -13.0 | -40.3 |
| | 5235.00 | -15.9 | H | 3.0 | 35.4 | 1.0 | -50.3 | -13.0 | -37.3 |
| | 6980.00 | -11.5 | H | 3.0 | 35.7 | 1.0 | -46.2 | -13.0 | -33.2 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/22/2015 | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | |
| Configuration: | | X-Pos, EUT Only | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_QPSK Band 4 Harmonics, 20MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1720 | | | | | | | | | |
| Band | 3440.00 | -17.2 | V | 3.0 | 36.0 | 1.0 | -52.2 | -13.0 | -39.2 |
| | 5160.00 | -16.2 | V | 3.0 | 35.4 | 1.0 | -50.7 | -13.0 | -37.7 |
| LTE4 | 6880.00 | -14.1 | V | 3.0 | 35.7 | 1.0 | -48.8 | -13.0 | -35.8 |
| | 3440.00 | -18.3 | H | 3.0 | 36.0 | 1.0 | -53.4 | -13.0 | -40.4 |
| | 5160.00 | -16.2 | H | 3.0 | 35.4 | 1.0 | -50.7 | -13.0 | -37.7 |
| 20MHz | 6880.00 | -13.2 | H | 3.0 | 35.7 | 1.0 | -47.9 | -13.0 | -34.9 |
| Mid Ch, 1732.5 | | | | | | | | | |
| QPSK | 3465.00 | -16.6 | V | 3.0 | 36.0 | 1.0 | -51.7 | -13.0 | -38.7 |
| | 5197.50 | -16.0 | V | 3.0 | 35.4 | 1.0 | -50.4 | -13.0 | -37.4 |
| | 6930.00 | -12.6 | V | 3.0 | 35.7 | 1.0 | -47.3 | -13.0 | -34.3 |
| | 3465.00 | -19.7 | H | 3.0 | 36.0 | 1.0 | -54.7 | -13.0 | -41.7 |
| | 5197.50 | -16.0 | H | 3.0 | 35.4 | 1.0 | -50.5 | -13.0 | -37.5 |
| | 6930.00 | -11.9 | H | 3.0 | 35.7 | 1.0 | -46.6 | -13.0 | -33.6 |
| High Ch, 1745 | | | | | | | | | |
| | 3490.00 | -18.5 | V | 3.0 | 36.0 | 1.0 | -53.5 | -13.0 | -40.5 |
| | 5235.00 | -15.5 | V | 3.0 | 35.4 | 1.0 | -49.9 | -13.0 | -36.9 |
| | 6980.00 | -13.6 | V | 3.0 | 35.7 | 1.0 | -48.3 | -13.0 | -35.3 |
| | 3490.00 | -19.9 | H | 3.0 | 36.0 | 1.0 | -55.0 | -13.0 | -42.0 |
| | 5235.00 | -16.4 | H | 3.0 | 35.4 | 1.0 | -50.8 | -13.0 | -37.8 |
| | 6980.00 | -12.9 | H | 3.0 | 35.7 | 1.0 | -47.6 | -13.0 | -34.6 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: LG Project #: 15I21235 Date: 7/22/2015 Test Engineer: A. Escamilla Configuration: X-Pos, EUT Only Location: Chamber C Mode: LTE_16QAM Band 4 Harmonics, 15MHz Bandwidth | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1717.5 | | | | | | | | | |
| Band | 3435.00 | -20.2 | V | 3.0 | 36.1 | 1.0 | -55.2 | -13.0 | -42.2 |
| | 5152.50 | -16.8 | V | 3.0 | 35.4 | 1.0 | -51.2 | -13.0 | -38.2 |
| LTE4 | 6870.00 | -13.9 | V | 3.0 | 35.7 | 1.0 | -48.6 | -13.0 | -35.6 |
| | 3435.00 | -18.7 | H | 3.0 | 36.1 | 1.0 | -53.8 | -13.0 | -40.8 |
| | 5152.50 | -15.4 | H | 3.0 | 35.4 | 1.0 | -49.8 | -13.0 | -36.8 |
| 15MHz | 6870.00 | -12.6 | H | 3.0 | 35.7 | 1.0 | -47.2 | -13.0 | -34.2 |
| Mid Ch, 1732.5 | | | | | | | | | |
| 16QAM | 3465.00 | -18.2 | V | 3.0 | 36.0 | 1.0 | -53.2 | -13.0 | -40.2 |
| | 5197.50 | -15.6 | V | 3.0 | 35.4 | 1.0 | -50.0 | -13.0 | -37.0 |
| | 6930.00 | -13.8 | V | 3.0 | 35.7 | 1.0 | -48.4 | -13.0 | -35.4 |
| | 3465.00 | -19.7 | H | 3.0 | 36.0 | 1.0 | -54.8 | -13.0 | -41.8 |
| | 5197.50 | -14.9 | H | 3.0 | 35.4 | 1.0 | -49.3 | -13.0 | -36.3 |
| | 6930.00 | -13.0 | H | 3.0 | 35.7 | 1.0 | -47.7 | -13.0 | -34.7 |
| High Ch, 1747.5 | | | | | | | | | |
| | 3495.00 | -18.7 | V | 3.0 | 36.0 | 1.0 | -53.8 | -13.0 | -40.8 |
| | 5242.50 | -15.6 | V | 3.0 | 35.4 | 1.0 | -50.0 | -13.0 | -37.0 |
| | 6990.00 | -13.7 | V | 3.0 | 35.7 | 1.0 | -48.3 | -13.0 | -35.3 |
| | 3495.00 | -20.6 | H | 3.0 | 36.0 | 1.0 | -55.6 | -13.0 | -42.6 |
| | 5242.50 | -16.8 | H | 3.0 | 35.4 | 1.0 | -51.2 | -13.0 | -38.2 |
| | 6990.00 | -13.3 | H | 3.0 | 35.7 | 1.0 | -48.0 | -13.0 | -35.0 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/22/2015 | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | |
| Configuration: | | X-Pos, EUT Only | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_QPSK Band 4 Harmonics, 15MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Low Ch, 1717.5 | | | | | | | | | |
| 3435.00 | -19.9 | V | 3.0 | 36.1 | 1.0 | -54.9 | -13.0 | -41.9 | |
| 5152.50 | -16.5 | V | 3.0 | 35.4 | 1.0 | -51.0 | -13.0 | -38.0 | |
| LTE4 | | | | | | | | | |
| 6870.00 | -12.7 | V | 3.0 | 35.7 | 1.0 | -47.3 | -13.0 | -34.3 | |
| 3435.00 | -18.4 | H | 3.0 | 36.1 | 1.0 | -53.5 | -13.0 | -40.5 | |
| 5152.50 | -14.5 | H | 3.0 | 35.4 | 1.0 | -49.0 | -13.0 | -36.0 | |
| 15MHz | | | | | | | | | |
| 6870.00 | -11.6 | H | 3.0 | 35.7 | 1.0 | -46.3 | -13.0 | -33.3 | |
| Mid Ch, 1732.5 | | | | | | | | | |
| 3465.00 | -19.6 | V | 3.0 | 36.0 | 1.0 | -54.6 | -13.0 | -41.6 | |
| 5197.50 | -16.7 | V | 3.0 | 35.4 | 1.0 | -51.1 | -13.0 | -38.1 | |
| 6930.00 | -15.3 | V | 3.0 | 35.7 | 1.0 | -50.0 | -13.0 | -37.0 | |
| 3465.00 | -19.8 | H | 3.0 | 36.0 | 1.0 | -54.9 | -13.0 | -41.9 | |
| 5197.50 | -16.2 | H | 3.0 | 35.4 | 1.0 | -50.6 | -13.0 | -37.6 | |
| 6930.00 | -12.6 | H | 3.0 | 35.7 | 1.0 | -47.3 | -13.0 | -34.3 | |
| QPSK | | | | | | | | | |
| High Ch, 1747.5 | | | | | | | | | |
| 3495.00 | -18.5 | V | 3.0 | 36.0 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 5242.50 | -16.1 | V | 3.0 | 35.4 | 1.0 | -50.5 | -13.0 | -37.5 | |
| 6990.00 | -13.8 | V | 3.0 | 35.7 | 1.0 | -48.5 | -13.0 | -35.5 | |
| 3495.00 | -18.6 | H | 3.0 | 36.0 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 5242.50 | -15.3 | H | 3.0 | 35.4 | 1.0 | -49.7 | -13.0 | -36.7 | |
| 6990.00 | -12.1 | H | 3.0 | 35.7 | 1.0 | -46.8 | -13.0 | -33.8 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_16QAM Band 4 Harmonics, 10MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1715 | | | | | | | | | |
| Band | 3430.00 | -20.2 | V | 3.0 | 36.1 | 1.0 | -55.2 | -13.0 | -42.2 |
| | 5145.00 | -16.1 | V | 3.0 | 35.4 | 1.0 | -50.5 | -13.0 | -37.5 |
| LTE4 | 6860.00 | -16.7 | V | 3.0 | 35.7 | 1.0 | -51.3 | -13.0 | -38.3 |
| | 3430.00 | -21.2 | H | 3.0 | 36.1 | 1.0 | -56.3 | -13.0 | -43.3 |
| | 5145.00 | -16.8 | H | 3.0 | 35.4 | 1.0 | -51.2 | -13.0 | -38.2 |
| 10MHz | 6860.00 | -15.5 | H | 3.0 | 35.7 | 1.0 | -50.1 | -13.0 | -37.1 |
| Mid Ch, 1732.5 | | | | | | | | | |
| 16QAM | 3465.00 | -17.9 | V | 3.0 | 36.0 | 1.0 | -52.9 | -13.0 | -39.9 |
| | 5197.50 | -17.0 | V | 3.0 | 35.4 | 1.0 | -51.4 | -13.0 | -38.4 |
| | 6930.00 | -15.8 | V | 3.0 | 35.7 | 1.0 | -50.5 | -13.0 | -37.5 |
| | 3465.00 | -18.5 | H | 3.0 | 36.0 | 1.0 | -53.6 | -13.0 | -40.6 |
| | 5197.50 | -16.7 | H | 3.0 | 35.4 | 1.0 | -51.1 | -13.0 | -38.1 |
| | 6930.00 | -15.9 | H | 3.0 | 35.7 | 1.0 | -50.6 | -13.0 | -37.6 |
| High Ch, 1750 | | | | | | | | | |
| | 3500.00 | -14.1 | V | 3.0 | 36.0 | 1.0 | -49.1 | -13.0 | -36.1 |
| | 5250.00 | -17.7 | V | 3.0 | 35.4 | 1.0 | -52.1 | -13.0 | -39.1 |
| | 7000.00 | -16.8 | V | 3.0 | 35.7 | 1.0 | -51.5 | -13.0 | -38.5 |
| | 3500.00 | -16.4 | H | 3.0 | 36.0 | 1.0 | -51.5 | -13.0 | -38.5 |
| | 5250.00 | -16.3 | H | 3.0 | 35.4 | 1.0 | -50.8 | -13.0 | -37.8 |
| | 7000.00 | -15.9 | H | 3.0 | 35.7 | 1.0 | -50.6 | -13.0 | -37.6 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_QPSK Band 4 Harmonics, 10MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1715 | | | | | | | | | |
| Band | 3430.00 | -21.5 | V | 3.0 | 36.1 | 1.0 | -56.6 | -13.0 | -43.6 |
| | 5145.00 | -16.5 | V | 3.0 | 35.4 | 1.0 | -50.9 | -13.0 | -37.9 |
| LTE4 | 6860.00 | -15.4 | V | 3.0 | 35.7 | 1.0 | -50.1 | -13.0 | -37.1 |
| | 3430.00 | -19.8 | H | 3.0 | 36.1 | 1.0 | -54.9 | -13.0 | -41.9 |
| | 5145.00 | -15.8 | H | 3.0 | 35.4 | 1.0 | -50.3 | -13.0 | -37.3 |
| 10MHz | 6860.00 | -15.1 | H | 3.0 | 35.7 | 1.0 | -49.8 | -13.0 | -36.8 |
| Mid Ch, 1732.5 | | | | | | | | | |
| QPSK | 3465.00 | -17.0 | V | 3.0 | 36.0 | 1.0 | -52.1 | -13.0 | -39.1 |
| | 5197.50 | -17.5 | V | 3.0 | 35.4 | 1.0 | -51.9 | -13.0 | -38.9 |
| | 6930.00 | -15.6 | V | 3.0 | 35.7 | 1.0 | -50.3 | -13.0 | -37.3 |
| | 3465.00 | -18.8 | H | 3.0 | 36.0 | 1.0 | -53.8 | -13.0 | -40.8 |
| | 5197.50 | -16.5 | H | 3.0 | 35.4 | 1.0 | -51.0 | -13.0 | -38.0 |
| | 6930.00 | -13.9 | H | 3.0 | 35.7 | 1.0 | -48.6 | -13.0 | -35.6 |
| High Ch, 1750 | | | | | | | | | |
| | 3500.00 | -13.1 | V | 3.0 | 36.0 | 1.0 | -48.1 | -13.0 | -35.1 |
| | 5250.00 | -16.4 | V | 3.0 | 35.4 | 1.0 | -50.8 | -13.0 | -37.8 |
| | 7000.00 | -16.5 | V | 3.0 | 35.7 | 1.0 | -51.1 | -13.0 | -38.1 |
| | 3500.00 | -16.8 | H | 3.0 | 36.0 | 1.0 | -51.8 | -13.0 | -38.8 |
| | 5250.00 | -16.8 | H | 3.0 | 35.4 | 1.0 | -51.2 | -13.0 | -38.2 |
| | 7000.00 | -16.0 | H | 3.0 | 35.7 | 1.0 | -50.7 | -13.0 | -37.7 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_16QAM Band 4 Harmonics, 5MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1712.5 | | | | | | | | | |
| Band | 3425.00 | -18.9 | V | 3.0 | 36.1 | 1.0 | -54.0 | -13.0 | -41.0 |
| | 5137.50 | -16.9 | V | 3.0 | 35.4 | 1.0 | -51.3 | -13.0 | -38.3 |
| LTE4 | 6850.00 | -15.9 | V | 3.0 | 35.7 | 1.0 | -50.6 | -13.0 | -37.6 |
| | 3425.00 | -21.1 | H | 3.0 | 36.1 | 1.0 | -56.2 | -13.0 | -43.2 |
| | 5137.50 | -16.8 | H | 3.0 | 35.4 | 1.0 | -51.2 | -13.0 | -38.2 |
| 5MHz | 6850.00 | -14.6 | H | 3.0 | 35.7 | 1.0 | -49.2 | -13.0 | -36.2 |
| Mid Ch, 1732.5 | | | | | | | | | |
| 16QAM | 3465.00 | -19.7 | V | 3.0 | 36.0 | 1.0 | -54.7 | -13.0 | -41.7 |
| | 5197.50 | -17.5 | V | 3.0 | 35.4 | 1.0 | -51.9 | -13.0 | -38.9 |
| | 6930.00 | -16.5 | V | 3.0 | 35.7 | 1.0 | -51.2 | -13.0 | -38.2 |
| | 3465.00 | -21.4 | H | 3.0 | 36.0 | 1.0 | -56.4 | -13.0 | -43.4 |
| | 5197.50 | -17.2 | H | 3.0 | 35.4 | 1.0 | -51.7 | -13.0 | -38.7 |
| | 6930.00 | -14.8 | H | 3.0 | 35.7 | 1.0 | -49.5 | -13.0 | -36.5 |
| High Ch, 1752.5 | | | | | | | | | |
| | 3505.00 | -13.2 | V | 3.0 | 36.0 | 1.0 | -48.2 | -13.0 | -35.2 |
| | 5257.50 | -17.6 | V | 3.0 | 35.4 | 1.0 | -52.0 | -13.0 | -39.0 |
| | 7010.00 | -17.1 | V | 3.0 | 35.7 | 1.0 | -51.8 | -13.0 | -38.8 |
| | 3505.00 | -18.2 | H | 3.0 | 36.0 | 1.0 | -53.2 | -13.0 | -40.2 |
| | 5257.50 | -16.2 | H | 3.0 | 35.4 | 1.0 | -50.6 | -13.0 | -37.6 |
| | 7010.00 | -16.1 | H | 3.0 | 35.7 | 1.0 | -50.7 | -13.0 | -37.7 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: LG Project #: 15I21235 Date: 7/14/2015 Test Engineer: O. Stoelting Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber A Mode: LTE_QPSK Band 4 Harmonics, 5MHz Bandwidth | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1712.5 | | | | | | | | | |
| Band | 3425.00 | -19.3 | V | 3.0 | 36.1 | 1.0 | -54.4 | -13.0 | -41.4 |
| | 5137.50 | -16.8 | V | 3.0 | 35.4 | 1.0 | -51.2 | -13.0 | -38.2 |
| LTE4 | 6850.00 | -16.5 | V | 3.0 | 35.7 | 1.0 | -51.2 | -13.0 | -38.2 |
| | 3425.00 | -21.8 | H | 3.0 | 36.1 | 1.0 | -56.9 | -13.0 | -43.9 |
| | 5137.50 | -16.8 | H | 3.0 | 35.4 | 1.0 | -51.3 | -13.0 | -38.3 |
| 5MHz | 6850.00 | -15.0 | H | 3.0 | 35.7 | 1.0 | -49.7 | -13.0 | -36.7 |
| Mid Ch, 1732.5 | | | | | | | | | |
| QPSK | 3465.00 | -20.7 | V | 3.0 | 36.0 | 1.0 | -55.7 | -13.0 | -42.7 |
| | 5197.50 | -17.6 | V | 3.0 | 35.4 | 1.0 | -52.0 | -13.0 | -39.0 |
| | 6930.00 | -16.8 | V | 3.0 | 35.7 | 1.0 | -51.5 | -13.0 | -38.5 |
| | 3465.00 | -21.2 | H | 3.0 | 36.0 | 1.0 | -56.2 | -13.0 | -43.2 |
| | 5197.50 | -16.9 | H | 3.0 | 35.4 | 1.0 | -51.4 | -13.0 | -38.4 |
| | 6930.00 | -15.0 | H | 3.0 | 35.7 | 1.0 | -49.7 | -13.0 | -36.7 |
| High Ch, 1752.5 | | | | | | | | | |
| | 3505.00 | -13.4 | V | 3.0 | 36.0 | 1.0 | -48.4 | -13.0 | -35.4 |
| | 5257.50 | -16.7 | V | 3.0 | 35.4 | 1.0 | -51.2 | -13.0 | -38.2 |
| | 7010.00 | -17.1 | V | 3.0 | 35.7 | 1.0 | -51.8 | -13.0 | -38.8 |
| | 3505.00 | -17.4 | H | 3.0 | 36.0 | 1.0 | -52.4 | -13.0 | -39.4 |
| | 5257.50 | -17.5 | H | 3.0 | 35.4 | 1.0 | -52.0 | -13.0 | -39.0 |
| | 7010.00 | -15.1 | H | 3.0 | 35.7 | 1.0 | -49.8 | -13.0 | -36.8 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: LG Project #: 15I21235 Date: 7/14/2015 Test Engineer: O. Stoelting Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber A Mode: LTE_16QAM Band 4 Harmonics, 3MHz Bandwidth | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1711.5 | | | | | | | | | |
| Band | 3423.00 | -22.1 | V | 3.0 | 36.1 | 1.0 | -57.1 | -13.0 | -44.1 |
| | 5134.50 | -17.2 | V | 3.0 | 35.4 | 1.0 | -51.7 | -13.0 | -38.7 |
| LTE4 | 6846.00 | -16.2 | V | 3.0 | 35.7 | 1.0 | -50.8 | -13.0 | -37.8 |
| | 3423.00 | -18.0 | H | 3.0 | 36.1 | 1.0 | -53.1 | -13.0 | -40.1 |
| | 5134.50 | -15.8 | H | 3.0 | 35.4 | 1.0 | -50.3 | -13.0 | -37.3 |
| 3MHz | 6846.00 | -15.6 | H | 3.0 | 35.7 | 1.0 | -50.2 | -13.0 | -37.2 |
| Mid Ch, 1732.5 | | | | | | | | | |
| 16QAM | 3465.00 | -20.3 | V | 3.0 | 36.0 | 1.0 | -55.3 | -13.0 | -42.3 |
| | 5197.50 | -16.6 | V | 3.0 | 35.4 | 1.0 | -51.0 | -13.0 | -38.0 |
| | 6930.00 | -16.6 | V | 3.0 | 35.7 | 1.0 | -51.3 | -13.0 | -38.3 |
| | 3465.00 | -17.4 | H | 3.0 | 36.0 | 1.0 | -52.4 | -13.0 | -39.4 |
| | 5197.50 | -15.9 | H | 3.0 | 35.4 | 1.0 | -50.3 | -13.0 | -37.3 |
| | 6930.00 | -14.6 | H | 3.0 | 35.7 | 1.0 | -49.2 | -13.0 | -36.2 |
| High Ch, 1753.5 | | | | | | | | | |
| | 3507.00 | -17.7 | V | 3.0 | 36.0 | 1.0 | -52.7 | -13.0 | -39.7 |
| | 5260.50 | -17.4 | V | 3.0 | 35.4 | 1.0 | -51.8 | -13.0 | -38.8 |
| | 7014.00 | -15.7 | V | 3.0 | 35.7 | 1.0 | -50.4 | -13.0 | -37.4 |
| | 3507.00 | -13.8 | H | 3.0 | 36.0 | 1.0 | -48.8 | -13.0 | -35.8 |
| | 5260.50 | -17.0 | H | 3.0 | 35.4 | 1.0 | -51.4 | -13.0 | -38.4 |
| | 7014.00 | -15.9 | H | 3.0 | 35.7 | 1.0 | -50.6 | -13.0 | -37.6 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_QPSK Band 4 Harmonics, 3MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1711.5 | | | | | | | | | |
| Band | 3423.00 | -21.1 | V | 3.0 | 36.1 | 1.0 | -56.2 | -13.0 | -43.2 |
| | 5134.50 | -16.7 | V | 3.0 | 35.4 | 1.0 | -51.2 | -13.0 | -38.2 |
| LTE4 | 6846.00 | -15.7 | V | 3.0 | 35.7 | 1.0 | -50.3 | -13.0 | -37.3 |
| | 3423.00 | -18.5 | H | 3.0 | 36.1 | 1.0 | -53.6 | -13.0 | -40.6 |
| | 5134.50 | -16.3 | H | 3.0 | 35.4 | 1.0 | -50.8 | -13.0 | -37.8 |
| 3MHz | 6846.00 | -15.3 | H | 3.0 | 35.7 | 1.0 | -49.9 | -13.0 | -36.9 |
| Mid Ch, 1732.5 | | | | | | | | | |
| QPSK | 3465.00 | -20.5 | V | 3.0 | 36.0 | 1.0 | -55.5 | -13.0 | -42.5 |
| | 5197.50 | -16.5 | V | 3.0 | 35.4 | 1.0 | -50.9 | -13.0 | -37.9 |
| | 6930.00 | -16.2 | V | 3.0 | 35.7 | 1.0 | -50.9 | -13.0 | -37.9 |
| | 3465.00 | -16.9 | H | 3.0 | 36.0 | 1.0 | -51.9 | -13.0 | -38.9 |
| | 5197.50 | -16.2 | H | 3.0 | 35.4 | 1.0 | -50.6 | -13.0 | -37.6 |
| | 6930.00 | -15.6 | H | 3.0 | 35.7 | 1.0 | -50.2 | -13.0 | -37.2 |
| High Ch, 1753.5 | | | | | | | | | |
| | 3507.00 | -19.1 | V | 3.0 | 36.0 | 1.0 | -54.1 | -13.0 | -41.1 |
| | 5260.50 | -18.0 | V | 3.0 | 35.4 | 1.0 | -52.4 | -13.0 | -39.4 |
| | 7014.00 | -17.5 | V | 3.0 | 35.7 | 1.0 | -52.2 | -13.0 | -39.2 |
| | 3507.00 | -13.7 | H | 3.0 | 36.0 | 1.0 | -48.7 | -13.0 | -35.7 |
| | 5260.50 | -16.8 | H | 3.0 | 35.4 | 1.0 | -51.2 | -13.0 | -38.2 |
| | 7014.00 | -14.9 | H | 3.0 | 35.7 | 1.0 | -49.6 | -13.0 | -36.6 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_16QAM Band 4 Harmonics, 1.4MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| LTE4 | | | | | | | | | |
| 1.4MHz | | | | | | | | | |
| 16QAM | | | | | | | | | |
| Low Ch, 1710.7 | | | | | | | | | |
| 3421.40 | -21.4 | V | 3.0 | 36.1 | 1.0 | -56.5 | -13.0 | -43.5 | |
| 5132.10 | -17.5 | V | 3.0 | 35.4 | 1.0 | -51.9 | -13.0 | -38.9 | |
| 6842.80 | -17.2 | V | 3.0 | 35.7 | 1.0 | -51.8 | -13.0 | -38.8 | |
| 3421.40 | -17.3 | H | 3.0 | 36.1 | 1.0 | -52.4 | -13.0 | -39.4 | |
| 5132.10 | -16.3 | H | 3.0 | 35.4 | 1.0 | -50.7 | -13.0 | -37.7 | |
| 6842.80 | -15.6 | H | 3.0 | 35.7 | 1.0 | -50.3 | -13.0 | -37.3 | |
| Mid Ch, 1732.5 | | | | | | | | | |
| 3465.00 | -17.9 | V | 3.0 | 36.0 | 1.0 | -52.9 | -13.0 | -39.9 | |
| 5197.50 | -18.2 | V | 3.0 | 35.4 | 1.0 | -52.7 | -13.0 | -39.7 | |
| 6930.00 | -15.7 | V | 3.0 | 35.7 | 1.0 | -50.4 | -13.0 | -37.4 | |
| 3465.00 | -21.9 | H | 3.0 | 36.0 | 1.0 | -56.9 | -13.0 | -43.9 | |
| 5197.50 | -17.3 | H | 3.0 | 35.4 | 1.0 | -51.7 | -13.0 | -38.7 | |
| 6930.00 | -15.4 | H | 3.0 | 35.7 | 1.0 | -50.1 | -13.0 | -37.1 | |
| High Ch, 1754.3 | | | | | | | | | |
| 3508.60 | -20.4 | V | 3.0 | 36.0 | 1.0 | -55.4 | -13.0 | -42.4 | |
| 5262.90 | -17.8 | V | 3.0 | 35.4 | 1.0 | -52.2 | -13.0 | -39.2 | |
| 7017.20 | -17.4 | V | 3.0 | 35.7 | 1.0 | -52.1 | -13.0 | -39.1 | |
| 3508.60 | -19.7 | H | 3.0 | 36.0 | 1.0 | -54.7 | -13.0 | -41.7 | |
| 5262.90 | -16.3 | H | 3.0 | 35.4 | 1.0 | -50.7 | -13.0 | -37.7 | |
| 7017.20 | -16.0 | H | 3.0 | 35.7 | 1.0 | -50.7 | -13.0 | -37.7 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_QPSK Band 4 Harmonics, 1.4MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1710.7 | | | | | | | | | |
| Band | 3421.40 | -21.3 | V | 3.0 | 36.1 | 1.0 | -56.4 | -13.0 | -43.4 |
| | 5132.10 | -16.6 | V | 3.0 | 35.4 | 1.0 | -51.0 | -13.0 | -38.0 |
| LTE4 | 6842.80 | -16.5 | V | 3.0 | 35.7 | 1.0 | -51.2 | -13.0 | -38.2 |
| | 3421.40 | -22.1 | H | 3.0 | 36.1 | 1.0 | -57.2 | -13.0 | -44.2 |
| | 5132.10 | -16.4 | H | 3.0 | 35.4 | 1.0 | -50.9 | -13.0 | -37.9 |
| 1.4MHz | 6842.80 | -14.4 | H | 3.0 | 35.7 | 1.0 | -49.1 | -13.0 | -36.1 |
| Mid Ch, 1732.5 | | | | | | | | | |
| QPSK | 3465.00 | -17.9 | V | 3.0 | 36.0 | 1.0 | -52.9 | -13.0 | -39.9 |
| | 5197.50 | -16.9 | V | 3.0 | 35.4 | 1.0 | -51.3 | -13.0 | -38.3 |
| | 6930.00 | -16.6 | V | 3.0 | 35.7 | 1.0 | -51.3 | -13.0 | -38.3 |
| | 3465.00 | -21.4 | H | 3.0 | 36.0 | 1.0 | -56.4 | -13.0 | -43.4 |
| | 5197.50 | -17.2 | H | 3.0 | 35.4 | 1.0 | -51.7 | -13.0 | -38.7 |
| | 6930.00 | -15.2 | H | 3.0 | 35.7 | 1.0 | -49.9 | -13.0 | -36.9 |
| High Ch, 1754.3 | | | | | | | | | |
| | 3508.60 | -19.6 | V | 3.0 | 36.0 | 1.0 | -54.6 | -13.0 | -41.6 |
| | 5262.90 | -17.7 | V | 3.0 | 35.4 | 1.0 | -52.1 | -13.0 | -39.1 |
| | 7017.20 | -16.8 | V | 3.0 | 35.7 | 1.0 | -51.5 | -13.0 | -38.5 |
| | 3508.60 | -20.1 | H | 3.0 | 36.0 | 1.0 | -55.1 | -13.0 | -42.1 |
| | 5262.90 | -17.3 | H | 3.0 | 35.4 | 1.0 | -51.7 | -13.0 | -38.7 |
| | 7017.20 | -15.6 | H | 3.0 | 35.7 | 1.0 | -50.2 | -13.0 | -37.2 |

LTE Band 5

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|--|---------------|---|-----------------|--------------|-------------|-------------|-----------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | | |
| Location: | | Chamber C | | | | | | | | |
| Mode: | | LTE_16QAM Band 5 Harmonics, 10MHz Bandwidth | | | | | | | | |
| Band | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | ERP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| 10MHz 16QAM | Low Ch, 829 | | | | | | | | | |
| | 1658.00 | -25.0 | V | 3.0 | 37.0 | 1.0 | -61.0 | -13.0 | -48.0 | |
| | 2487.00 | -23.4 | V | 3.0 | 36.4 | 1.0 | -58.9 | -13.0 | -45.9 | |
| | 3316.00 | -21.7 | V | 3.0 | 36.2 | 1.0 | -56.8 | -13.0 | -43.8 | |
| | 1658.00 | -27.1 | H | 3.0 | 37.0 | 1.0 | -63.1 | -13.0 | -50.1 | |
| | 2487.00 | -25.8 | H | 3.0 | 36.4 | 1.0 | -61.2 | -13.0 | -48.2 | |
| | 3316.00 | -21.9 | H | 3.0 | 36.2 | 1.0 | -57.1 | -13.0 | -44.1 | |
| | Mid Ch, 836.5 | | | | | | | | | |
| | 1673.00 | -24.1 | V | 3.0 | 37.0 | 1.0 | -60.2 | -13.0 | -47.2 | |
| | 2509.50 | -23.8 | V | 3.0 | 36.4 | 1.0 | -59.2 | -13.0 | -46.2 | |
| | 3346.00 | -20.8 | V | 3.0 | 36.1 | 1.0 | -55.9 | -13.0 | -42.9 | |
| | 1673.00 | -26.5 | H | 3.0 | 37.0 | 1.0 | -62.5 | -13.0 | -49.5 | |
| | 2509.50 | -24.9 | H | 3.0 | 36.4 | 1.0 | -60.3 | -13.0 | -47.3 | |
| | 3346.00 | -22.0 | H | 3.0 | 36.1 | 1.0 | -57.1 | -13.0 | -44.1 | |
| | High Ch, 844 | | | | | | | | | |
| | 1688.00 | -26.7 | V | 3.0 | 37.0 | 1.0 | -62.7 | -13.0 | -49.7 | |
| | 2532.00 | -23.3 | V | 3.0 | 36.4 | 1.0 | -58.7 | -13.0 | -45.7 | |
| | 3376.00 | -21.6 | V | 3.0 | 36.1 | 1.0 | -56.7 | -13.0 | -43.7 | |
| | 1688.00 | -26.8 | H | 3.0 | 37.0 | 1.0 | -62.7 | -13.0 | -49.7 | |
| | 2532.00 | -24.1 | H | 3.0 | 36.4 | 1.0 | -59.5 | -13.0 | -46.5 | |
| | 3376.00 | -21.0 | H | 3.0 | 36.1 | 1.0 | -56.1 | -13.0 | -43.1 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|--|---------------|--|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | | |
| 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 |
| Band | Low Ch, 829 | | | | | | | | | |
| | 1658.00 | -24.9 | V | 3.0 | 37.0 | 1.0 | -60.9 | -13.0 | -47.9 | |
| LTE5 | 2487.00 | -23.3 | V | 3.0 | 36.4 | 1.0 | -58.7 | -13.0 | -45.7 | |
| | 3316.00 | -21.5 | V | 3.0 | 36.2 | 1.0 | -56.7 | -13.0 | -43.7 | |
| 10MHz | 1658.00 | -27.0 | H | 3.0 | 37.0 | 1.0 | -63.0 | -13.0 | -50.0 | |
| | 2487.00 | -25.7 | H | 3.0 | 36.4 | 1.0 | -61.1 | -13.0 | -48.1 | |
| QPSK | 3316.00 | -21.8 | 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 | -60.0 | -13.0 | -47.0 | |
| | 2509.50 | -23.7 | V | 3.0 | 36.4 | 1.0 | -59.1 | -13.0 | -46.1 | |
| | 3346.00 | -20.6 | V | 3.0 | 36.1 | 1.0 | -55.8 | -13.0 | -42.8 | |
| | 1673.00 | -26.4 | H | 3.0 | 37.0 | 1.0 | -62.4 | -13.0 | -49.4 | |
| | 2509.50 | -24.7 | H | 3.0 | 36.4 | 1.0 | -60.2 | -13.0 | -47.2 | |
| | 3346.00 | -21.9 | H | 3.0 | 36.1 | 1.0 | -57.0 | -13.0 | -44.0 | |
| | High Ch, 844 | | | | | | | | | |
| | 1688.00 | -26.6 | V | 3.0 | 37.0 | 1.0 | -62.6 | -13.0 | -49.6 | |
| | 2532.00 | -23.2 | V | 3.0 | 36.4 | 1.0 | -58.6 | -13.0 | -45.6 | |
| | 3376.00 | -21.5 | V | 3.0 | 36.1 | 1.0 | -56.6 | -13.0 | -43.6 | |
| | 1688.00 | -26.6 | H | 3.0 | 37.0 | 1.0 | -62.6 | -13.0 | -49.6 | |
| | 2532.00 | -24.0 | H | 3.0 | 36.4 | 1.0 | -59.4 | -13.0 | -46.4 | |
| | 3376.00 | -20.8 | H | 3.0 | 36.1 | 1.0 | -55.9 | -13.0 | -42.9 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_16QAM Band 5 Harmonics, 5MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Low Ch, 826.5 | | | | | | | | | |
| 1653.00 | -28.6 | V | 3.0 | 37.0 | 1.0 | -64.6 | -13.0 | -51.6 | |
| 2479.50 | -23.3 | V | 3.0 | 36.4 | 1.0 | -58.7 | -13.0 | -45.7 | |
| LTE5 | | | | | | | | | |
| 3306.00 | -22.1 | V | 3.0 | 36.2 | 1.0 | -57.3 | -13.0 | -44.3 | |
| 1653.00 | -26.4 | H | 3.0 | 37.0 | 1.0 | -62.4 | -13.0 | -49.4 | |
| 2479.50 | -25.3 | H | 3.0 | 36.4 | 1.0 | -60.8 | -13.0 | -47.8 | |
| 5MHz | | | | | | | | | |
| 3306.00 | -20.8 | H | 3.0 | 36.2 | 1.0 | -56.0 | -13.0 | -43.0 | |
| 16QAM | | | | | | | | | |
| Mid Ch, 836.5 | | | | | | | | | |
| 1673.00 | -23.8 | V | 3.0 | 37.0 | 1.0 | -59.8 | -13.0 | -46.8 | |
| 2509.50 | -23.1 | V | 3.0 | 36.4 | 1.0 | -58.5 | -13.0 | -45.5 | |
| 3346.00 | -22.3 | V | 3.0 | 36.1 | 1.0 | -57.4 | -13.0 | -44.4 | |
| 1673.00 | -25.7 | H | 3.0 | 37.0 | 1.0 | -61.7 | -13.0 | -48.7 | |
| 2509.50 | -25.6 | H | 3.0 | 36.4 | 1.0 | -61.1 | -13.0 | -48.1 | |
| 3346.00 | -21.6 | H | 3.0 | 36.1 | 1.0 | -56.8 | -13.0 | -43.8 | |
| High Ch, 846.5 | | | | | | | | | |
| 1693.00 | -27.8 | V | 3.0 | 37.0 | 1.0 | -63.8 | -13.0 | -50.8 | |
| 2539.50 | -23.9 | V | 3.0 | 36.4 | 1.0 | -59.3 | -13.0 | -46.3 | |
| 3386.00 | -21.4 | V | 3.0 | 36.1 | 1.0 | -56.5 | -13.0 | -43.5 | |
| 1693.00 | -27.3 | H | 3.0 | 37.0 | 1.0 | -63.3 | -13.0 | -50.3 | |
| 2539.50 | -25.0 | H | 3.0 | 36.4 | 1.0 | -60.4 | -13.0 | -47.4 | |
| 3386.00 | -21.8 | H | 3.0 | 36.1 | 1.0 | -56.9 | -13.0 | -43.9 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|--|-----------------------|---|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|
| Company: | | LG Electronics | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | | |
| Location: | | Chamber C | | | | | | | | |
| Mode: | | LTE_QPSK Band 5 Harmonics, 5MHz Bandwidth | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | Low Ch, 826.5 | | | | | | | | | |
| Band | 1653.00 | -28.4 | V | 3.0 | 37.0 | 1.0 | -64.5 | -13.0 | -51.5 | |
| | 2479.50 | -23.1 | V | 3.0 | 36.4 | 1.0 | -58.6 | -13.0 | -45.6 | |
| LTE5 | 3306.00 | -22.0 | V | 3.0 | 36.2 | 1.0 | -57.1 | -13.0 | -44.1 | |
| | 1653.00 | -26.2 | H | 3.0 | 37.0 | 1.0 | -62.2 | -13.0 | -49.2 | |
| | 2479.50 | -25.2 | H | 3.0 | 36.4 | 1.0 | -60.6 | -13.0 | -47.6 | |
| 5MHz | 3306.00 | -20.6 | H | 3.0 | 36.2 | 1.0 | -55.8 | -13.0 | -42.8 | |
| | Mid Ch, 836.5 | | | | | | | | | |
| | 1673.00 | -23.7 | V | 3.0 | 37.0 | 1.0 | -59.7 | -13.0 | -46.7 | |
| QPSK | 2509.50 | -22.9 | V | 3.0 | 36.4 | 1.0 | -58.3 | -13.0 | -45.3 | |
| | 3346.00 | -22.1 | V | 3.0 | 36.1 | 1.0 | -57.2 | -13.0 | -44.2 | |
| | 1673.00 | -25.5 | H | 3.0 | 37.0 | 1.0 | -61.6 | -13.0 | -48.6 | |
| | 2509.50 | -25.5 | H | 3.0 | 36.4 | 1.0 | -60.9 | -13.0 | -47.9 | |
| | 3346.00 | -21.5 | H | 3.0 | 36.1 | 1.0 | -56.6 | -13.0 | -43.6 | |
| | High Ch, 846.5 | | | | | | | | | |
| | 1693.00 | -27.6 | V | 3.0 | 37.0 | 1.0 | -63.6 | -13.0 | -50.6 | |
| | 2539.50 | -23.7 | V | 3.0 | 36.4 | 1.0 | -59.1 | -13.0 | -46.1 | |
| | 3386.00 | -21.3 | V | 3.0 | 36.1 | 1.0 | -56.3 | -13.0 | -43.3 | |
| | 1693.00 | -27.1 | H | 3.0 | 37.0 | 1.0 | -63.1 | -13.0 | -50.1 | |
| | 2539.50 | -24.8 | H | 3.0 | 36.4 | 1.0 | -60.2 | -13.0 | -47.2 | |
| | 3386.00 | -21.6 | H | 3.0 | 36.1 | 1.0 | -56.7 | -13.0 | -43.7 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_16QAM Band 6 Harmonics, 3MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Low Ch, 825.5 | | | | | | | | | |
| 1651.00 | -22.9 | V | 3.0 | 37.0 | 1.0 | -58.9 | -13.0 | -45.9 | |
| 2476.50 | -23.6 | V | 3.0 | 36.4 | 1.0 | -59.0 | -13.0 | -46.0 | |
| LTE5 | | | | | | | | | |
| 3302.00 | -22.1 | V | 3.0 | 36.2 | 1.0 | -57.2 | -13.0 | -44.2 | |
| 1651.00 | -28.2 | H | 3.0 | 37.0 | 1.0 | -64.3 | -13.0 | -51.3 | |
| 2476.50 | -25.3 | H | 3.0 | 36.4 | 1.0 | -60.7 | -13.0 | -47.7 | |
| 3MHz | | | | | | | | | |
| 3302.00 | -22.2 | H | 3.0 | 36.2 | 1.0 | -57.4 | -13.0 | -44.4 | |
| 16QAM | | | | | | | | | |
| Mid Ch, 836.5 | | | | | | | | | |
| 1673.00 | -28.0 | V | 3.0 | 37.0 | 1.0 | -64.0 | -13.0 | -51.0 | |
| 2509.50 | -23.6 | V | 3.0 | 36.4 | 1.0 | -59.0 | -13.0 | -46.0 | |
| 3346.00 | -21.7 | V | 3.0 | 36.1 | 1.0 | -56.9 | -13.0 | -43.9 | |
| 1673.00 | -28.3 | H | 3.0 | 37.0 | 1.0 | -64.3 | -13.0 | -51.3 | |
| 2509.50 | -24.9 | H | 3.0 | 36.4 | 1.0 | -60.4 | -13.0 | -47.4 | |
| 3346.00 | -21.5 | H | 3.0 | 36.1 | 1.0 | -56.6 | -13.0 | -43.6 | |
| High Ch, 847.5 | | | | | | | | | |
| 1695.00 | -26.0 | V | 3.0 | 37.0 | 1.0 | -61.9 | -13.0 | -48.9 | |
| 2542.50 | -24.0 | V | 3.0 | 36.4 | 1.0 | -59.5 | -13.0 | -46.5 | |
| 3390.00 | -21.5 | V | 3.0 | 36.1 | 1.0 | -56.6 | -13.0 | -43.6 | |
| 1695.00 | -27.1 | H | 3.0 | 37.0 | 1.0 | -63.1 | -13.0 | -50.1 | |
| 2542.50 | -25.1 | H | 3.0 | 36.4 | 1.0 | -60.5 | -13.0 | -47.5 | |
| 3390.00 | -21.4 | H | 3.0 | 36.1 | 1.0 | -56.5 | -13.0 | -43.5 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | |
|--|----------------|---|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|--|
| Company: | | LG Electronics | | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | | | |
| Location: | | Chamber C | | | | | | | | | |
| Mode: | | LTE_QPSK Band 5 Harmonics, 3MHz Bandwidth | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | |
| Band | Low Ch, 825.5 | | | | | | | | | | |
| | | 1651.00 | -22.8 | V | 3.0 | 37.0 | 1.0 | -58.8 | -13.0 | -45.8 | |
| | | 2476.50 | -23.5 | V | 3.0 | 36.4 | 1.0 | -58.9 | -13.0 | -45.9 | |
| | LTE5 | 3302.00 | -21.9 | V | 3.0 | 36.2 | 1.0 | -57.1 | -13.0 | -44.1 | |
| | | 1651.00 | -28.1 | H | 3.0 | 37.0 | 1.0 | -64.1 | -13.0 | -51.1 | |
| | 3MHz | 2476.50 | -25.2 | H | 3.0 | 36.4 | 1.0 | -60.6 | -13.0 | -47.6 | |
| 3302.00 | | -22.1 | H | 3.0 | 36.2 | 1.0 | -57.3 | -13.0 | -44.3 | | |
| QPSK | Mid Ch, 836.5 | | | | | | | | | | |
| | | 1673.00 | -27.9 | V | 3.0 | 37.0 | 1.0 | -63.9 | -13.0 | -50.9 | |
| | | 2509.50 | -23.5 | V | 3.0 | 36.4 | 1.0 | -58.9 | -13.0 | -45.9 | |
| | | 3346.00 | -21.6 | V | 3.0 | 36.1 | 1.0 | -56.7 | -13.0 | -43.7 | |
| | | 1673.00 | -28.2 | H | 3.0 | 37.0 | 1.0 | -64.2 | -13.0 | -51.2 | |
| | | 2509.50 | -24.8 | H | 3.0 | 36.4 | 1.0 | -60.2 | -13.0 | -47.2 | |
| | 3346.00 | -21.4 | H | 3.0 | 36.1 | 1.0 | -56.5 | -13.0 | -43.5 | | |
| | High Ch, 847.5 | | | | | | | | | | |
| | 1695.00 | -25.8 | V | 3.0 | 37.0 | 1.0 | -61.8 | -13.0 | -48.8 | | |
| | 2542.50 | -23.9 | V | 3.0 | 36.4 | 1.0 | -59.3 | -13.0 | -46.3 | | |
| | 3390.00 | -21.4 | V | 3.0 | 36.1 | 1.0 | -56.5 | -13.0 | -43.5 | | |
| | 1695.00 | -27.0 | H | 3.0 | 37.0 | 1.0 | -63.0 | -13.0 | -50.0 | | |
| | 2542.50 | -25.0 | H | 3.0 | 36.4 | 1.0 | -60.4 | -13.0 | -47.4 | | |
| | 3390.00 | -21.3 | H | 3.0 | 36.1 | 1.0 | -56.4 | -13.0 | -43.4 | | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_16QAM Band 5 Harmonics, 1.4MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Low Ch, 824.7 | | | | | | | | | |
| 1649.40 | -22.9 | V | 3.0 | 37.0 | 1.0 | -58.9 | -13.0 | -45.9 | |
| 2474.10 | -23.9 | V | 3.0 | 36.4 | 1.0 | -59.4 | -13.0 | -46.4 | |
| LTE5 | | | | | | | | | |
| 3298.80 | -21.6 | V | 3.0 | 36.2 | 1.0 | -56.7 | -13.0 | -43.7 | |
| 1649.40 | -24.8 | H | 3.0 | 37.0 | 1.0 | -60.8 | -13.0 | -47.8 | |
| 2474.10 | -25.5 | H | 3.0 | 36.4 | 1.0 | -60.9 | -13.0 | -47.9 | |
| 1.4MHz | | | | | | | | | |
| 3298.80 | -21.7 | H | 3.0 | 36.2 | 1.0 | -56.9 | -13.0 | -43.9 | |
| Mid Ch, 836.5 | | | | | | | | | |
| 1673.00 | -25.6 | V | 3.0 | 37.0 | 1.0 | -61.6 | -13.0 | -48.6 | |
| 16QAM | | | | | | | | | |
| 2509.50 | -23.5 | V | 3.0 | 36.4 | 1.0 | -58.9 | -13.0 | -45.9 | |
| 3346.00 | -21.4 | V | 3.0 | 36.1 | 1.0 | -56.5 | -13.0 | -43.5 | |
| 1673.00 | -26.0 | H | 3.0 | 37.0 | 1.0 | -62.0 | -13.0 | -49.0 | |
| 2509.50 | -24.9 | H | 3.0 | 36.4 | 1.0 | -60.3 | -13.0 | -47.3 | |
| 3346.00 | -21.5 | H | 3.0 | 36.1 | 1.0 | -56.6 | -13.0 | -43.6 | |
| High Ch, 848.3 | | | | | | | | | |
| 1696.60 | -27.0 | V | 3.0 | 37.0 | 1.0 | -62.9 | -13.0 | -49.9 | |
| 2544.90 | -24.6 | V | 3.0 | 36.4 | 1.0 | -60.0 | -13.0 | -47.0 | |
| 3393.20 | -21.9 | V | 3.0 | 36.1 | 1.0 | -57.0 | -13.0 | -44.0 | |
| 1696.60 | -26.6 | H | 3.0 | 37.0 | 1.0 | -62.6 | -13.0 | -49.6 | |
| 2544.90 | -25.5 | H | 3.0 | 36.4 | 1.0 | -60.9 | -13.0 | -47.9 | |
| 3393.20 | -22.1 | H | 3.0 | 36.1 | 1.0 | -57.2 | -13.0 | -44.2 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_QPSK Band 5 Harmonics, 1.4MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 824.7 | | | | | | | | | |
| 1649.40 | -22.6 | V | 3.0 | 37.0 | 1.0 | -58.7 | -13.0 | -45.7 | |
| 2474.10 | -23.7 | V | 3.0 | 36.4 | 1.0 | -59.1 | -13.0 | -46.1 | |
| LTE5 | | | | | | | | | |
| 3298.80 | -21.4 | V | 3.0 | 36.2 | 1.0 | -56.5 | -13.0 | -43.5 | |
| 1649.40 | -24.6 | H | 3.0 | 37.0 | 1.0 | -60.6 | -13.0 | -47.6 | |
| 2474.10 | -25.3 | H | 3.0 | 36.4 | 1.0 | -60.7 | -13.0 | -47.7 | |
| 1.4MHz | | | | | | | | | |
| 3298.80 | -21.5 | H | 3.0 | 36.2 | 1.0 | -56.7 | -13.0 | -43.7 | |
| Mid Ch, 836.5 | | | | | | | | | |
| 1673.00 | -25.4 | V | 3.0 | 37.0 | 1.0 | -61.4 | -13.0 | -48.4 | |
| 2509.50 | -23.3 | V | 3.0 | 36.4 | 1.0 | -58.7 | -13.0 | -45.7 | |
| 3346.00 | -21.2 | V | 3.0 | 36.1 | 1.0 | -56.3 | -13.0 | -43.3 | |
| 1673.00 | -25.8 | H | 3.0 | 37.0 | 1.0 | -61.8 | -13.0 | -48.8 | |
| 2509.50 | -24.7 | H | 3.0 | 36.4 | 1.0 | -60.1 | -13.0 | -47.1 | |
| 3346.00 | -21.3 | H | 3.0 | 36.1 | 1.0 | -56.4 | -13.0 | -43.4 | |
| High Ch, 848.3 | | | | | | | | | |
| 1696.60 | -26.8 | V | 3.0 | 37.0 | 1.0 | -62.7 | -13.0 | -49.7 | |
| 2544.90 | -24.3 | V | 3.0 | 36.4 | 1.0 | -59.8 | -13.0 | -46.8 | |
| 3393.20 | -21.7 | V | 3.0 | 36.1 | 1.0 | -56.8 | -13.0 | -43.8 | |
| 1696.60 | -26.4 | H | 3.0 | 37.0 | 1.0 | -62.4 | -13.0 | -49.4 | |
| 2544.90 | -25.3 | H | 3.0 | 36.4 | 1.0 | -60.7 | -13.0 | -47.7 | |
| 3393.20 | -21.9 | H | 3.0 | 36.1 | 1.0 | -57.0 | -13.0 | -44.0 | |

LTE Band 7

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/11/2015 | | | | | | | |
| Test Engineer: | | R.Alegre | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_16QAM Band 7 Harmonics, 20MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 2510 | | | | | | | | | |
| 5020.00 | -18.2 | V | 3.0 | 35.5 | 1.0 | -52.6 | -25.0 | -27.6 | |
| 7530.00 | -15.2 | V | 3.0 | 35.7 | 1.0 | -49.9 | -25.0 | -24.9 | |
| 10040.00 | -12.3 | V | 3.0 | 36.0 | 1.0 | -47.3 | -25.0 | -22.3 | |
| 5020.00 | -17.4 | H | 3.0 | 35.5 | 1.0 | -51.8 | -25.0 | -26.8 | |
| 7530.00 | -13.3 | H | 3.0 | 35.7 | 1.0 | -48.0 | -25.0 | -23.0 | |
| 10040.00 | -11.9 | H | 3.0 | 36.0 | 1.0 | -46.9 | -25.0 | -21.9 | |
| Mid Ch, 2535 | | | | | | | | | |
| 5070.00 | -17.1 | V | 3.0 | 35.4 | 1.0 | -51.5 | -25.0 | -26.5 | |
| 7605.00 | -14.2 | V | 3.0 | 35.8 | 1.0 | -48.9 | -25.0 | -23.9 | |
| 10140.00 | -12.6 | V | 3.0 | 36.0 | 1.0 | -47.6 | -25.0 | -22.6 | |
| 5070.00 | -17.5 | H | 3.0 | 35.4 | 1.0 | -51.9 | -25.0 | -26.9 | |
| 7605.00 | -12.1 | H | 3.0 | 35.8 | 1.0 | -46.9 | -25.0 | -21.9 | |
| 10140.00 | -11.3 | H | 3.0 | 36.0 | 1.0 | -46.3 | -25.0 | -21.3 | |
| High Ch, 2560 | | | | | | | | | |
| 5120.00 | -18.1 | V | 3.0 | 35.4 | 1.0 | -52.5 | -25.0 | -27.5 | |
| 7680.00 | -13.8 | V | 3.0 | 35.8 | 1.0 | -48.5 | -25.0 | -23.5 | |
| 10240.00 | -12.5 | V | 3.0 | 35.9 | 1.0 | -47.4 | -25.0 | -22.4 | |
| 5120.00 | -17.5 | H | 3.0 | 35.4 | 1.0 | -52.0 | -25.0 | -27.0 | |
| 7680.00 | -12.6 | H | 3.0 | 35.8 | 1.0 | -47.4 | -25.0 | -22.4 | |
| 10240.00 | -10.7 | H | 3.0 | 35.9 | 1.0 | -45.6 | -25.0 | -20.6 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/11/2015 | | | | | | | |
| Test Engineer: | | R. Alegre | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_QPSK Band 7 Harmonics, 20MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 2510 | | | | | | | | | |
| 5020.00 | -17.9 | V | 3.0 | 35.5 | 1.0 | -52.3 | -25.0 | -27.3 | |
| 7530.00 | -14.8 | V | 3.0 | 35.7 | 1.0 | -49.5 | -25.0 | -24.5 | |
| LTE7 | | | | | | | | | |
| 10040.00 | -12.7 | V | 3.0 | 36.0 | 1.0 | -47.7 | -25.0 | -22.7 | |
| 5020.00 | -17.4 | H | 3.0 | 35.5 | 1.0 | -51.8 | -25.0 | -26.8 | |
| 7530.00 | -13.1 | H | 3.0 | 35.7 | 1.0 | -47.8 | -25.0 | -22.8 | |
| 20MHz | | | | | | | | | |
| 10040.00 | -11.5 | H | 3.0 | 36.0 | 1.0 | -46.5 | -25.0 | -21.5 | |
| Mid Ch, 2535 | | | | | | | | | |
| 5070.00 | -17.9 | V | 3.0 | 35.4 | 1.0 | -52.3 | -25.0 | -27.3 | |
| 7605.00 | -14.1 | V | 3.0 | 35.8 | 1.0 | -48.9 | -25.0 | -23.9 | |
| 10140.00 | -11.8 | V | 3.0 | 36.0 | 1.0 | -46.8 | -25.0 | -21.8 | |
| 5070.00 | -17.2 | H | 3.0 | 35.4 | 1.0 | -51.7 | -25.0 | -26.7 | |
| 7605.00 | -12.1 | H | 3.0 | 35.8 | 1.0 | -46.9 | -25.0 | -21.9 | |
| 10140.00 | -10.9 | H | 3.0 | 36.0 | 1.0 | -45.9 | -25.0 | -20.9 | |
| High Ch, 2560 | | | | | | | | | |
| 5120.00 | -17.9 | V | 3.0 | 35.4 | 1.0 | -52.4 | -25.0 | -27.4 | |
| 7680.00 | -13.7 | V | 3.0 | 35.8 | 1.0 | -48.5 | -25.0 | -23.5 | |
| 10240.00 | -12.1 | V | 3.0 | 35.9 | 1.0 | -47.0 | -25.0 | -22.0 | |
| 5120.00 | -16.7 | H | 3.0 | 35.4 | 1.0 | -51.1 | -25.0 | -26.1 | |
| 7680.00 | -12.5 | H | 3.0 | 35.8 | 1.0 | -47.3 | -25.0 | -22.3 | |
| 10240.00 | -10.5 | H | 3.0 | 35.9 | 1.0 | -45.4 | -25.0 | -20.4 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/11/2015 | | | | | | | |
| Test Engineer: | | R. Alegre | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_16QAM Band 7 Harmonics, 15MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 2507.5 | | | | | | | | | |
| 5015.00 | -18.3 | V | 3.0 | 35.5 | 1.0 | -52.8 | -25.0 | -27.8 | |
| 7522.50 | -15.1 | V | 3.0 | 35.7 | 1.0 | -49.9 | -25.0 | -24.9 | |
| 10030.00 | -12.2 | V | 3.0 | 36.0 | 1.0 | -47.2 | -25.0 | -22.2 | |
| 5015.00 | -17.5 | H | 3.0 | 35.5 | 1.0 | -52.0 | -25.0 | -27.0 | |
| 7522.50 | -13.3 | H | 3.0 | 35.7 | 1.0 | -48.1 | -25.0 | -23.1 | |
| 10030.00 | -11.9 | H | 3.0 | 36.0 | 1.0 | -47.0 | -25.0 | -22.0 | |
| Mid Ch, 2535 | | | | | | | | | |
| 5070.00 | -17.1 | V | 3.0 | 35.4 | 1.0 | -51.6 | -25.0 | -26.6 | |
| 7605.00 | -14.3 | V | 3.0 | 35.8 | 1.0 | -49.0 | -25.0 | -24.0 | |
| 10140.00 | -12.8 | V | 3.0 | 36.0 | 1.0 | -47.7 | -25.0 | -22.7 | |
| 5070.00 | -17.4 | H | 3.0 | 35.4 | 1.0 | -51.9 | -25.0 | -26.9 | |
| 7605.00 | -12.1 | H | 3.0 | 35.8 | 1.0 | -46.9 | -25.0 | -21.9 | |
| 10140.00 | -11.5 | H | 3.0 | 36.0 | 1.0 | -46.4 | -25.0 | -21.4 | |
| High Ch, 2562.5 | | | | | | | | | |
| 5125.00 | -18.1 | V | 3.0 | 35.4 | 1.0 | -52.5 | -25.0 | -27.5 | |
| 7687.50 | -13.8 | V | 3.0 | 35.8 | 1.0 | -48.6 | -25.0 | -23.6 | |
| 10250.00 | -12.4 | V | 3.0 | 35.9 | 1.0 | -47.3 | -25.0 | -22.3 | |
| 5125.00 | -17.4 | H | 3.0 | 35.4 | 1.0 | -51.9 | -25.0 | -26.9 | |
| 7687.50 | -12.6 | H | 3.0 | 35.8 | 1.0 | -47.3 | -25.0 | -22.3 | |
| 10250.00 | -10.9 | H | 3.0 | 35.9 | 1.0 | -45.9 | -25.0 | -20.9 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/11/2015 | | | | | | | |
| Test Engineer: | | R.Alegre | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_QPSK Band 7 Harmonics, 15MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Low Ch, 2507.5 | | | | | | | | | |
| 5015.00 | -17.8 | V | 3.0 | 35.5 | 1.0 | -52.3 | -25.0 | -27.3 | |
| 7522.50 | -14.7 | V | 3.0 | 35.7 | 1.0 | -49.4 | -25.0 | -24.4 | |
| LTE7 | | | | | | | | | |
| 10030.00 | -12.7 | V | 3.0 | 36.0 | 1.0 | -47.7 | -25.0 | -22.7 | |
| 5015.00 | -17.3 | H | 3.0 | 35.5 | 1.0 | -51.7 | -25.0 | -26.7 | |
| 7522.50 | -13.2 | H | 3.0 | 35.7 | 1.0 | -47.9 | -25.0 | -22.9 | |
| 15MHz | | | | | | | | | |
| 10030.00 | -11.5 | H | 3.0 | 36.0 | 1.0 | -46.5 | -25.0 | -21.5 | |
| Mid Ch, 2535 | | | | | | | | | |
| 5070.00 | -17.9 | V | 3.0 | 35.4 | 1.0 | -52.3 | -25.0 | -27.3 | |
| 7605.00 | -14.1 | V | 3.0 | 35.8 | 1.0 | -48.8 | -25.0 | -23.8 | |
| 10140.00 | -11.9 | V | 3.0 | 36.0 | 1.0 | -46.9 | -25.0 | -21.9 | |
| 5070.00 | -17.1 | H | 3.0 | 35.4 | 1.0 | -51.5 | -25.0 | -26.5 | |
| 7605.00 | -12.0 | H | 3.0 | 35.8 | 1.0 | -46.7 | -25.0 | -21.7 | |
| 10140.00 | -10.7 | H | 3.0 | 36.0 | 1.0 | -45.7 | -25.0 | -20.7 | |
| QPSK | | | | | | | | | |
| High Ch, 2562.5 | | | | | | | | | |
| 5125.00 | -17.8 | V | 3.0 | 35.4 | 1.0 | -52.2 | -25.0 | -27.2 | |
| 7687.50 | -13.6 | V | 3.0 | 35.8 | 1.0 | -48.4 | -25.0 | -23.4 | |
| 10250.00 | -12.0 | V | 3.0 | 35.9 | 1.0 | -46.9 | -25.0 | -21.9 | |
| 5125.00 | -16.6 | H | 3.0 | 35.4 | 1.0 | -51.1 | -25.0 | -26.1 | |
| 7687.50 | -12.4 | H | 3.0 | 35.8 | 1.0 | -47.2 | -25.0 | -22.2 | |
| 10250.00 | -10.5 | H | 3.0 | 35.9 | 1.0 | -45.5 | -25.0 | -20.5 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/11/2015 | | | | | | | |
| Test Engineer: | | R.Alegre | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_16QAM Band 7 Harmonics, 10MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 2505 | | | | | | | | | |
| 5010.00 | -18.4 | V | 3.0 | 35.5 | 1.0 | -52.8 | -25.0 | -27.8 | |
| 7515.00 | -14.8 | V | 3.0 | 35.7 | 1.0 | -49.5 | -25.0 | -24.5 | |
| 10020.00 | -12.1 | V | 3.0 | 36.0 | 1.0 | -47.2 | -25.0 | -22.2 | |
| LTE7 | | | | | | | | | |
| 5010.00 | -17.4 | H | 3.0 | 35.5 | 1.0 | -51.9 | -25.0 | -26.9 | |
| 7515.00 | -13.4 | H | 3.0 | 35.7 | 1.0 | -48.1 | -25.0 | -23.1 | |
| 10020.00 | -11.7 | H | 3.0 | 36.0 | 1.0 | -46.7 | -25.0 | -21.7 | |
| 10MHz | | | | | | | | | |
| Mid Ch, 2535 | | | | | | | | | |
| 5070.00 | -17.2 | V | 3.0 | 35.4 | 1.0 | -51.7 | -25.0 | -26.7 | |
| 7605.00 | -14.3 | V | 3.0 | 35.8 | 1.0 | -49.1 | -25.0 | -24.1 | |
| 10140.00 | -12.9 | V | 3.0 | 36.0 | 1.0 | -47.8 | -25.0 | -22.8 | |
| 5070.00 | -17.4 | H | 3.0 | 35.4 | 1.0 | -51.8 | -25.0 | -26.8 | |
| 7605.00 | -12.1 | H | 3.0 | 35.8 | 1.0 | -46.8 | -25.0 | -21.8 | |
| 10140.00 | -11.4 | H | 3.0 | 36.0 | 1.0 | -46.4 | -25.0 | -21.4 | |
| 16QAM | | | | | | | | | |
| High Ch, 2565 | | | | | | | | | |
| 5130.00 | -18.0 | V | 3.0 | 35.4 | 1.0 | -52.5 | -25.0 | -27.5 | |
| 7695.00 | -13.6 | V | 3.0 | 35.8 | 1.0 | -48.4 | -25.0 | -23.4 | |
| 10260.00 | -12.0 | V | 3.0 | 35.9 | 1.0 | -46.9 | -25.0 | -21.9 | |
| 5130.00 | -17.4 | H | 3.0 | 35.4 | 1.0 | -51.8 | -25.0 | -26.8 | |
| 7695.00 | -12.3 | H | 3.0 | 35.8 | 1.0 | -47.1 | -25.0 | -22.1 | |
| 10260.00 | -10.9 | H | 3.0 | 35.9 | 1.0 | -45.8 | -25.0 | -20.8 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/11/2015 | | | | | | | |
| Test Engineer: | | R.Alegre | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_QPSK Band 7 Harmonics, 10MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 2505 | | | | | | | | | |
| Band | 5010.00 | -17.9 | V | 3.0 | 35.5 | 1.0 | -52.3 | -25.0 | -27.3 |
| | 7515.00 | -14.7 | V | 3.0 | 35.7 | 1.0 | -49.5 | -25.0 | -24.5 |
| LTE7 | 10020.00 | -12.8 | V | 3.0 | 36.0 | 1.0 | -47.8 | -25.0 | -22.8 |
| | 5010.00 | -17.3 | H | 3.0 | 35.5 | 1.0 | -51.8 | -25.0 | -26.8 |
| | 7515.00 | -13.1 | H | 3.0 | 35.7 | 1.0 | -47.9 | -25.0 | -22.9 |
| 10MHz | 10020.00 | -11.5 | H | 3.0 | 36.0 | 1.0 | -46.5 | -25.0 | -21.5 |
| Mid Ch, 2535 | | | | | | | | | |
| QPSK | 5070.00 | -17.8 | V | 3.0 | 35.4 | 1.0 | -52.2 | -25.0 | -27.2 |
| | 7605.00 | -14.2 | V | 3.0 | 35.8 | 1.0 | -49.0 | -25.0 | -24.0 |
| | 10140.00 | -12.0 | V | 3.0 | 36.0 | 1.0 | -47.0 | -25.0 | -22.0 |
| | 5070.00 | -17.1 | H | 3.0 | 35.4 | 1.0 | -51.6 | -25.0 | -26.6 |
| | 7605.00 | -12.1 | H | 3.0 | 35.8 | 1.0 | -46.9 | -25.0 | -21.9 |
| | 10140.00 | -10.8 | H | 3.0 | 36.0 | 1.0 | -45.7 | -25.0 | -20.7 |
| High Ch, 2565 | | | | | | | | | |
| | 5130.00 | -17.7 | V | 3.0 | 35.4 | 1.0 | -52.1 | -25.0 | -27.1 |
| | 7695.00 | -13.9 | V | 3.0 | 35.8 | 1.0 | -48.7 | -25.0 | -23.7 |
| | 10260.00 | -12.1 | V | 3.0 | 35.9 | 1.0 | -47.0 | -25.0 | -22.0 |
| | 5130.00 | -17.5 | H | 3.0 | 35.4 | 1.0 | -51.9 | -25.0 | -26.9 |
| | 7695.00 | -12.0 | H | 3.0 | 35.8 | 1.0 | -46.7 | -25.0 | -21.7 |
| | 10260.00 | -10.6 | H | 3.0 | 35.9 | 1.0 | -45.5 | -25.0 | -20.5 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/11/2015 | | | | | | | |
| Test Engineer: | | R.Alegre | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_16QAM Band 7 Harmonics, 5MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Low Ch, 2502.5 | | | | | | | | | |
| 5005.00 | -18.5 | V | 3.0 | 35.5 | 1.0 | -52.9 | -25.0 | -27.9 | |
| 7507.50 | -15.0 | V | 3.0 | 35.7 | 1.0 | -49.8 | -25.0 | -24.8 | |
| LTE7 | | | | | | | | | |
| 10010.00 | -12.5 | V | 3.0 | 36.0 | 1.0 | -47.5 | -25.0 | -22.5 | |
| 5005.00 | -17.1 | H | 3.0 | 35.5 | 1.0 | -51.5 | -25.0 | -26.5 | |
| 7507.50 | -13.2 | H | 3.0 | 35.7 | 1.0 | -48.0 | -25.0 | -23.0 | |
| 5MHz | | | | | | | | | |
| 10010.00 | -11.5 | H | 3.0 | 36.0 | 1.0 | -46.5 | -25.0 | -21.5 | |
| 16QAM | | | | | | | | | |
| Mid Ch, 2535 | | | | | | | | | |
| 5070.00 | -17.2 | V | 3.0 | 35.4 | 1.0 | -51.6 | -25.0 | -26.6 | |
| 7605.00 | -14.2 | V | 3.0 | 35.8 | 1.0 | -49.0 | -25.0 | -24.0 | |
| 10140.00 | -12.9 | V | 3.0 | 36.0 | 1.0 | -47.8 | -25.0 | -22.8 | |
| 5070.00 | -17.5 | H | 3.0 | 35.4 | 1.0 | -51.9 | -25.0 | -26.9 | |
| 7605.00 | -11.9 | H | 3.0 | 35.8 | 1.0 | -46.7 | -25.0 | -21.7 | |
| 10140.00 | -11.2 | H | 3.0 | 36.0 | 1.0 | -46.2 | -25.0 | -21.2 | |
| High Ch, 2567.5 | | | | | | | | | |
| 5135.00 | -17.9 | V | 3.0 | 35.4 | 1.0 | -52.3 | -25.0 | -27.3 | |
| 7702.50 | -13.6 | V | 3.0 | 35.8 | 1.0 | -48.4 | -25.0 | -23.4 | |
| 10270.00 | -12.1 | V | 3.0 | 35.9 | 1.0 | -47.0 | -25.0 | -22.0 | |
| 5135.00 | -17.2 | H | 3.0 | 35.4 | 1.0 | -51.6 | -25.0 | -26.6 | |
| 7702.50 | -12.2 | H | 3.0 | 35.8 | 1.0 | -47.0 | -25.0 | -22.0 | |
| 10270.00 | -10.9 | H | 3.0 | 35.9 | 1.0 | -45.8 | -25.0 | -20.8 | |

| UL Verification Services, Inc. | | | | | | | | | | |
|---|------------------------|---|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|
| Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
| Company: | | LG Electronics | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/11/2015 | | | | | | | | |
| Test Engineer: | | R.Alegre | | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | | |
| Location: | | Chamber C | | | | | | | | |
| Mode: | | LTE_QPSK Band 7 Harmonics, 5MHz Bandwidth | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | Low Ch, 2502.5 | | | | | | | | | |
| Band | 5005.00 | -18.1 | V | 3.0 | 35.5 | 1.0 | -52.5 | -25.0 | -27.5 | |
| | 7507.50 | -14.7 | V | 3.0 | 35.7 | 1.0 | -49.4 | -25.0 | -24.4 | |
| LTE7 | 10010.00 | -12.8 | V | 3.0 | 36.0 | 1.0 | -47.8 | -25.0 | -22.8 | |
| | 5005.00 | -17.3 | H | 3.0 | 35.5 | 1.0 | -51.7 | -25.0 | -26.7 | |
| | 7507.50 | -13.0 | H | 3.0 | 35.7 | 1.0 | -47.8 | -25.0 | -22.8 | |
| 5MHz | 10010.00 | -11.6 | H | 3.0 | 36.0 | 1.0 | -46.6 | -25.0 | -21.6 | |
| | Mid Ch, 2535 | | | | | | | | | |
| QPSK | 5070.00 | -17.6 | V | 3.0 | 35.4 | 1.0 | -52.0 | -25.0 | -27.0 | |
| | 7605.00 | -14.3 | V | 3.0 | 35.8 | 1.0 | -49.1 | -25.0 | -24.1 | |
| | 10140.00 | -11.9 | V | 3.0 | 36.0 | 1.0 | -46.9 | -25.0 | -21.9 | |
| | 5070.00 | -17.1 | H | 3.0 | 35.4 | 1.0 | -51.6 | -25.0 | -26.6 | |
| | 7605.00 | -12.0 | H | 3.0 | 35.8 | 1.0 | -46.8 | -25.0 | -21.8 | |
| | 10140.00 | -10.9 | H | 3.0 | 36.0 | 1.0 | -45.8 | -25.0 | -20.8 | |
| | High Ch, 2567.5 | | | | | | | | | |
| | 5135.00 | -17.6 | V | 3.0 | 35.4 | 1.0 | -52.1 | -25.0 | -27.1 | |
| | 7702.50 | -13.4 | V | 3.0 | 35.8 | 1.0 | -48.2 | -25.0 | -23.2 | |
| | 10270.00 | -11.8 | V | 3.0 | 35.9 | 1.0 | -46.7 | -25.0 | -21.7 | |
| | 5135.00 | -17.5 | H | 3.0 | 35.4 | 1.0 | -52.0 | -25.0 | -27.0 | |
| | 7702.50 | -12.0 | H | 3.0 | 35.8 | 1.0 | -46.8 | -25.0 | -21.8 | |
| | 10270.00 | -10.7 | H | 3.0 | 35.9 | 1.0 | -45.6 | -25.0 | -20.6 | |

LTE Band 12

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|--|---------------------|-----------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| | | Company: | LG | | | | | | | |
| | | Project #: | 15I21235 | | | | | | | |
| | | Date: | 7/22/2015 | | | | | | | |
| | | Test Engineer: | A. Escamilla | | | | | | | |
| | | Configuration: | EUT , AC Adapter /HS | | | | | | | |
| | | Location: | Chamber C | | | | | | | |
| | | Mode: | LTE_16QAM Band 12 Harmonics, 10MHz Bandwidth | | | | | | | |
| Band | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | Low Ch,704 | | | | | | | | | |
| LTE12 | 1408.00 | -30.2 | V | 3.0 | 37.4 | 1.0 | -66.5 | -13.0 | -53.5 | |
| | 2112.00 | -18.2 | V | 3.0 | 36.6 | 1.0 | -53.8 | -13.0 | -40.8 | |
| 10MHz | 2816.00 | -22.1 | V | 3.0 | 36.4 | 1.0 | -57.5 | -13.0 | -44.5 | |
| | 1408.00 | -29.5 | H | 3.0 | 37.4 | 1.0 | -65.9 | -13.0 | -52.9 | |
| 16QAM | 2112.00 | -20.0 | H | 3.0 | 36.6 | 1.0 | -55.6 | -13.0 | -42.6 | |
| | 2816.00 | -23.2 | H | 3.0 | 36.4 | 1.0 | -58.6 | -13.0 | -45.6 | |
| | Mid Ch,707.5 | | | | | | | | | |
| | 1415.00 | -30.2 | V | 3.0 | 37.3 | 1.0 | -66.6 | -13.0 | -53.6 | |
| | 2122.50 | -19.3 | V | 3.0 | 36.6 | 1.0 | -54.9 | -13.0 | -41.9 | |
| | 2830.00 | -22.6 | V | 3.0 | 36.4 | 1.0 | -58.0 | -13.0 | -45.0 | |
| | 1415.00 | -29.0 | H | 3.0 | 37.3 | 1.0 | -65.3 | -13.0 | -52.3 | |
| | 2122.50 | -19.1 | H | 3.0 | 36.6 | 1.0 | -54.7 | -13.0 | -41.7 | |
| | 2830.00 | -22.8 | H | 3.0 | 36.4 | 1.0 | -58.2 | -13.0 | -45.2 | |
| | High Ch,711 | | | | | | | | | |
| | 1422.00 | -29.1 | V | 3.0 | 37.3 | 1.0 | -65.4 | -13.0 | -52.4 | |
| | 2133.00 | -18.0 | V | 3.0 | 36.6 | 1.0 | -53.6 | -13.0 | -40.6 | |
| | 2844.00 | -21.9 | V | 3.0 | 36.4 | 1.0 | -57.3 | -13.0 | -44.3 | |
| | 1422.00 | -28.9 | H | 3.0 | 37.3 | 1.0 | -65.3 | -13.0 | -52.3 | |
| | 2133.00 | -19.7 | H | 3.0 | 36.6 | 1.0 | -55.3 | -13.0 | -42.3 | |
| | 2844.00 | -22.7 | H | 3.0 | 36.4 | 1.0 | -58.1 | -13.0 | -45.1 | |

| UL Verification Services, Inc. | | | | | | | | | | |
|---|---------------------|---|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
| Company: | | LG | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/22/2015 | | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | | |
| Configuration: | | EUT , AC Adapter /HS | | | | | | | | |
| Location: | | Chamber C | | | | | | | | |
| Mode: | | LTE_QPSK Band 12 Harmonics, 10MHz Bandwidth | | | | | | | | |
| Band | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | Low Ch,704 | | | | | | | | | |
| LTE12 | 1408.00 | -29.7 | V | 3.0 | 37.4 | 1.0 | -66.0 | -13.0 | -53.0 | |
| | 2112.00 | -16.8 | V | 3.0 | 36.6 | 1.0 | -52.4 | -13.0 | -39.4 | |
| 10MHz | 2816.00 | -21.6 | V | 3.0 | 36.4 | 1.0 | -56.9 | -13.0 | -43.9 | |
| | 1408.00 | -28.9 | H | 3.0 | 37.4 | 1.0 | -65.3 | -13.0 | -52.3 | |
| QPSK | 2112.00 | -19.3 | H | 3.0 | 36.6 | 1.0 | -54.9 | -13.0 | -41.9 | |
| | 2816.00 | -22.5 | H | 3.0 | 36.4 | 1.0 | -57.9 | -13.0 | -44.9 | |
| | Mid Ch,707.5 | | | | | | | | | |
| | 1415.00 | -30.0 | V | 3.0 | 37.3 | 1.0 | -66.4 | -13.0 | -53.4 | |
| | 2122.50 | -17.9 | V | 3.0 | 36.6 | 1.0 | -53.5 | -13.0 | -40.5 | |
| | 2830.00 | -22.0 | V | 3.0 | 36.4 | 1.0 | -57.4 | -13.0 | -44.4 | |
| | 1415.00 | -29.2 | H | 3.0 | 37.3 | 1.0 | -65.6 | -13.0 | -52.6 | |
| | 2122.50 | -19.4 | H | 3.0 | 36.6 | 1.0 | -54.9 | -13.0 | -41.9 | |
| | 2830.00 | -22.3 | H | 3.0 | 36.4 | 1.0 | -57.6 | -13.0 | -44.6 | |
| | High Ch,711 | | | | | | | | | |
| | 1422.00 | -30.0 | V | 3.0 | 37.3 | 1.0 | -66.3 | -13.0 | -53.3 | |
| | 2133.00 | -17.2 | V | 3.0 | 36.6 | 1.0 | -52.8 | -13.0 | -39.8 | |
| | 2844.00 | -21.5 | V | 3.0 | 36.4 | 1.0 | -56.9 | -13.0 | -43.9 | |
| | 1422.00 | -29.3 | H | 3.0 | 37.3 | 1.0 | -65.6 | -13.0 | -52.6 | |
| | 2133.00 | -19.2 | H | 3.0 | 36.6 | 1.0 | -54.8 | -13.0 | -41.8 | |
| | 2844.00 | -22.7 | H | 3.0 | 36.4 | 1.0 | -58.1 | -13.0 | -45.1 | |

| UL Verification Services, Inc. | | | | | | | | | | |
|---|------------------------|---|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
| Company: | | LG | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/22/2015 | | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | | |
| Configuration: | | EUT , AC Adapter /HS | | | | | | | | |
| Location: | | Chamber C | | | | | | | | |
| Mode: | | LTE_16QAM Band 12 Harmonics, 5MHz Bandwidth | | | | | | | | |
| Band | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | Low Ch, 701.50 | | | | | | | | | |
| LTE12 | 1403.00 | -30.6 | V | 3.0 | 37.4 | 1.0 | -67.0 | -13.0 | -54.0 | |
| | 2104.50 | -18.3 | V | 3.0 | 36.6 | 1.0 | -53.8 | -13.0 | -40.8 | |
| 5MHz | 2806.00 | -22.0 | V | 3.0 | 36.4 | 1.0 | -57.4 | -13.0 | -44.4 | |
| | 1403.00 | -29.2 | H | 3.0 | 37.4 | 1.0 | -65.6 | -13.0 | -52.6 | |
| 16QAM | 2104.50 | -21.2 | H | 3.0 | 36.6 | 1.0 | -56.8 | -13.0 | -43.8 | |
| | 2806.00 | -23.1 | H | 3.0 | 36.4 | 1.0 | -58.4 | -13.0 | -45.4 | |
| | Mid Ch, 707.50 | | | | | | | | | |
| | 1415.00 | -30.6 | V | 3.0 | 37.3 | 1.0 | -67.0 | -13.0 | -54.0 | |
| | 2122.50 | -18.4 | V | 3.0 | 36.6 | 1.0 | -53.9 | -13.0 | -40.9 | |
| | 2830.00 | -22.2 | V | 3.0 | 36.4 | 1.0 | -57.6 | -13.0 | -44.6 | |
| | 1415.00 | -29.1 | H | 3.0 | 37.3 | 1.0 | -65.5 | -13.0 | -52.5 | |
| | 2122.50 | -20.7 | H | 3.0 | 36.6 | 1.0 | -56.3 | -13.0 | -43.3 | |
| | 2830.00 | -23.2 | H | 3.0 | 36.4 | 1.0 | -58.5 | -13.0 | -45.5 | |
| | High Ch, 713.50 | | | | | | | | | |
| | 1427.00 | -30.3 | V | 3.0 | 37.3 | 1.0 | -66.6 | -13.0 | -53.6 | |
| | 2140.50 | -18.1 | V | 3.0 | 36.6 | 1.0 | -53.6 | -13.0 | -40.6 | |
| | 2854.00 | -21.9 | V | 3.0 | 36.4 | 1.0 | -57.3 | -13.0 | -44.3 | |
| | 1427.00 | -29.1 | H | 3.0 | 37.3 | 1.0 | -65.4 | -13.0 | -52.4 | |
| | 2140.50 | -19.2 | H | 3.0 | 36.6 | 1.0 | -54.7 | -13.0 | -41.7 | |
| | 2854.00 | -22.0 | H | 3.0 | 36.4 | 1.0 | -57.4 | -13.0 | -44.4 | |

| UL Verification Services, Inc. | | | | | | | | | | |
|---|---------|--|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
| Company: | | LG | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/22/2015 | | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | | |
| Configuration: | | EUT , AC Adapter /HS | | | | | | | | |
| Location: | | Chamber C | | | | | | | | |
| Mode: | | LTE_QPSK Band 12 Harmonics, 5MHz Bandwidth | | | | | | | | |
| Band | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 701.50 | | | | | | | | | | |
| LTE12 | 1403.00 | -30.0 | V | 3.0 | 37.4 | 1.0 | -66.4 | -13.0 | -53.4 | |
| | 2104.50 | -17.0 | V | 3.0 | 36.6 | 1.0 | -52.6 | -13.0 | -39.6 | |
| 5MHz | 2806.00 | -21.9 | V | 3.0 | 36.4 | 1.0 | -57.3 | -13.0 | -44.3 | |
| | 1403.00 | -29.7 | H | 3.0 | 37.4 | 1.0 | -66.1 | -13.0 | -53.1 | |
| QPSK | 2104.50 | -21.1 | H | 3.0 | 36.6 | 1.0 | -56.7 | -13.0 | -43.7 | |
| | 2806.00 | -22.5 | H | 3.0 | 36.4 | 1.0 | -57.9 | -13.0 | -44.9 | |
| Mid Ch, 707.50 | | | | | | | | | | |
| | 1415.00 | -30.3 | V | 3.0 | 37.3 | 1.0 | -66.7 | -13.0 | -53.7 | |
| | 2122.50 | -18.2 | V | 3.0 | 36.6 | 1.0 | -53.7 | -13.0 | -40.7 | |
| | 2830.00 | -21.1 | V | 3.0 | 36.4 | 1.0 | -56.5 | -13.0 | -43.5 | |
| | 1415.00 | -29.1 | H | 3.0 | 37.3 | 1.0 | -65.5 | -13.0 | -52.5 | |
| | 2122.50 | -19.9 | H | 3.0 | 36.6 | 1.0 | -55.4 | -13.0 | -42.4 | |
| | 2830.00 | -23.0 | H | 3.0 | 36.4 | 1.0 | -58.4 | -13.0 | -45.4 | |
| High Ch, 713.50 | | | | | | | | | | |
| | 1427.00 | -30.0 | V | 3.0 | 37.3 | 1.0 | -66.3 | -13.0 | -53.3 | |
| | 2140.50 | -18.0 | V | 3.0 | 36.6 | 1.0 | -53.5 | -13.0 | -40.5 | |
| | 2854.00 | -21.3 | V | 3.0 | 36.4 | 1.0 | -56.7 | -13.0 | -43.7 | |
| | 1427.00 | -28.9 | H | 3.0 | 37.3 | 1.0 | -65.2 | -13.0 | -52.2 | |
| | 2140.50 | -19.9 | H | 3.0 | 36.6 | 1.0 | -55.5 | -13.0 | -42.5 | |
| | 2854.00 | -23.0 | H | 3.0 | 36.4 | 1.0 | -58.4 | -13.0 | -45.4 | |

| UL Verification Services, Inc. | | | | | | | | | | |
|---|-----------------------|---|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
| Company: | | LG | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/22/2015 | | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | | |
| Configuration: | | EUT , AC Adapter /HS | | | | | | | | |
| Location: | | Chamber C | | | | | | | | |
| Mode: | | LTE_16QAM Band 12 Harmonics, 3MHz Bandwidth | | | | | | | | |
| Band | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | Low Ch, 700.5 | | | | | | | | | |
| LTE12 | 1401.00 | -30.1 | V | 3.0 | 37.4 | 1.0 | -66.5 | -13.0 | -53.5 | |
| | 2101.50 | -14.8 | V | 3.0 | 36.6 | 1.0 | -50.4 | -13.0 | -37.4 | |
| 3MHz | 2802.00 | -22.0 | V | 3.0 | 36.4 | 1.0 | -57.4 | -13.0 | -44.4 | |
| | 1401.00 | -28.2 | H | 3.0 | 37.4 | 1.0 | -64.6 | -13.0 | -51.6 | |
| 16QAM | 2101.50 | -24.3 | H | 3.0 | 36.6 | 1.0 | -59.9 | -13.0 | -46.9 | |
| | 2802.00 | -22.9 | H | 3.0 | 36.4 | 1.0 | -58.3 | -13.0 | -45.3 | |
| | Mid Ch, 707.50 | | | | | | | | | |
| | 1415.00 | -30.7 | V | 3.0 | 37.3 | 1.0 | -67.1 | -13.0 | -54.1 | |
| | 2122.00 | -17.6 | V | 3.0 | 36.6 | 1.0 | -53.1 | -13.0 | -40.1 | |
| | 2830.00 | -22.2 | V | 3.0 | 36.4 | 1.0 | -57.6 | -13.0 | -44.6 | |
| | 1415.00 | -29.4 | H | 3.0 | 37.3 | 1.0 | -65.7 | -13.0 | -52.7 | |
| | 2122.00 | -19.6 | H | 3.0 | 36.6 | 1.0 | -55.1 | -13.0 | -42.1 | |
| | 2830.00 | -23.3 | H | 3.0 | 36.4 | 1.0 | -58.7 | -13.0 | -45.7 | |
| | High Ch, 714.5 | | | | | | | | | |
| | 1429.00 | -30.6 | V | 3.0 | 37.3 | 1.0 | -66.9 | -13.0 | -53.9 | |
| | 2143.50 | -18.3 | V | 3.0 | 36.6 | 1.0 | -53.9 | -13.0 | -40.9 | |
| | 2858.00 | -22.0 | V | 3.0 | 36.4 | 1.0 | -57.4 | -13.0 | -44.4 | |
| | 1429.00 | -29.8 | H | 3.0 | 37.3 | 1.0 | -66.1 | -13.0 | -53.1 | |
| | 2143.50 | -18.7 | H | 3.0 | 36.6 | 1.0 | -54.3 | -13.0 | -41.3 | |
| | 2858.00 | -23.1 | H | 3.0 | 36.4 | 1.0 | -58.5 | -13.0 | -45.5 | |

| UL Verification Services, Inc. | | | | | | | | | | |
|---|---------|--|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
| Company: | | LG | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/22/2015 | | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | | |
| Configuration: | | EUT , AC Adapter /HS | | | | | | | | |
| Location: | | Chamber C | | | | | | | | |
| Mode: | | LTE_QPSK Band 12 Harmonics, 3MHz Bandwidth | | | | | | | | |
| Band | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 700.5 | | | | | | | | | | |
| LTE12 | 1401.00 | -30.3 | V | 3.0 | 37.4 | 1.0 | -66.7 | -13.0 | -53.7 | |
| | 2101.50 | -16.1 | V | 3.0 | 36.6 | 1.0 | -51.7 | -13.0 | -38.7 | |
| 3MHz | 2802.00 | -22.1 | V | 3.0 | 36.4 | 1.0 | -57.5 | -13.0 | -44.5 | |
| | 1401.00 | -28.7 | H | 3.0 | 37.4 | 1.0 | -65.1 | -13.0 | -52.1 | |
| QPSK | 2101.50 | -24.6 | H | 3.0 | 36.6 | 1.0 | -60.2 | -13.0 | -47.2 | |
| | 2802.00 | -22.8 | H | 3.0 | 36.4 | 1.0 | -58.2 | -13.0 | -45.2 | |
| Mid Ch, 707.50 | | | | | | | | | | |
| | 1415.00 | -30.1 | V | 3.0 | 37.3 | 1.0 | -66.5 | -13.0 | -53.5 | |
| | 2122.00 | -17.2 | V | 3.0 | 36.6 | 1.0 | -52.7 | -13.0 | -39.7 | |
| | 2830.00 | -21.7 | V | 3.0 | 36.4 | 1.0 | -57.1 | -13.0 | -44.1 | |
| | 1415.00 | -28.2 | H | 3.0 | 37.3 | 1.0 | -64.6 | -13.0 | -51.6 | |
| | 2122.00 | -19.2 | H | 3.0 | 36.6 | 1.0 | -54.8 | -13.0 | -41.8 | |
| | 2830.00 | -22.3 | H | 3.0 | 36.4 | 1.0 | -57.7 | -13.0 | -44.7 | |
| High Ch, 714.5 | | | | | | | | | | |
| | 1429.00 | -30.6 | V | 3.0 | 37.3 | 1.0 | -66.9 | -13.0 | -53.9 | |
| | 2143.50 | -19.6 | V | 3.0 | 36.6 | 1.0 | -55.2 | -13.0 | -42.2 | |
| | 2858.00 | -20.8 | V | 3.0 | 36.4 | 1.0 | -56.1 | -13.0 | -43.1 | |
| | 1429.00 | -29.4 | H | 3.0 | 37.3 | 1.0 | -65.8 | -13.0 | -52.8 | |
| | 2143.50 | -18.6 | H | 3.0 | 36.6 | 1.0 | -54.2 | -13.0 | -41.2 | |
| | 2858.00 | -22.7 | H | 3.0 | 36.4 | 1.0 | -58.1 | -13.0 | -45.1 | |

| UL Verification Services, Inc. | | | | | | | | | | |
|---|-----------------------|---|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
| Company: | | LG | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/22/2015 | | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | | |
| Configuration: | | EUT , AC Adapter /HS | | | | | | | | |
| Location: | | Chamber C | | | | | | | | |
| Mode: | | LTE_16QAM Band 12 Harmonics, 1.4MHz Bandwidth | | | | | | | | |
| Band | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | Low Ch, 699.7 | | | | | | | | | |
| LTE12 | 1399.40 | -30.6 | V | 3.0 | 37.4 | 1.0 | -67.0 | -13.0 | -54.0 | |
| | 2099.10 | -19.7 | V | 3.0 | 36.6 | 1.0 | -55.2 | -13.0 | -42.2 | |
| 1.4MHz | 2798.80 | -22.4 | V | 3.0 | 36.4 | 1.0 | -57.8 | -13.0 | -44.8 | |
| | 1399.40 | -29.8 | H | 3.0 | 37.4 | 1.0 | -66.1 | -13.0 | -53.1 | |
| 16QAM | 2099.10 | -19.9 | H | 3.0 | 36.6 | 1.0 | -55.4 | -13.0 | -42.4 | |
| | 2798.80 | -23.5 | H | 3.0 | 36.4 | 1.0 | -58.9 | -13.0 | -45.9 | |
| | Mid Ch, 707.50 | | | | | | | | | |
| | 1415.00 | -30.5 | V | 3.0 | 37.3 | 1.0 | -66.9 | -13.0 | -53.9 | |
| | 2122.00 | -17.8 | V | 3.0 | 36.6 | 1.0 | -53.4 | -13.0 | -40.4 | |
| | 2830.00 | -22.0 | V | 3.0 | 36.4 | 1.0 | -57.4 | -13.0 | -44.4 | |
| | 1415.00 | -29.4 | H | 3.0 | 37.3 | 1.0 | -65.8 | -13.0 | -52.8 | |
| | 2122.00 | -21.8 | H | 3.0 | 36.6 | 1.0 | -57.4 | -13.0 | -44.4 | |
| | 2830.00 | -22.9 | H | 3.0 | 36.4 | 1.0 | -58.2 | -13.0 | -45.2 | |
| | High Ch, 715.3 | | | | | | | | | |
| | 1430.60 | -30.8 | V | 3.0 | 37.3 | 1.0 | -67.1 | -13.0 | -54.1 | |
| | 2145.90 | -18.0 | V | 3.0 | 36.6 | 1.0 | -53.6 | -13.0 | -40.6 | |
| | 2861.20 | -22.1 | V | 3.0 | 36.4 | 1.0 | -57.5 | -13.0 | -44.5 | |
| | 1430.60 | -29.5 | H | 3.0 | 37.3 | 1.0 | -65.8 | -13.0 | -52.8 | |
| | 2145.90 | -20.9 | H | 3.0 | 36.6 | 1.0 | -56.5 | -13.0 | -43.5 | |
| | 2861.20 | -23.1 | H | 3.0 | 36.4 | 1.0 | -58.5 | -13.0 | -45.5 | |

| UL Verification Services, Inc. | | | | | | | | | | |
|---|---------|--|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
| Company: | | LG | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/22/2015 | | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | | |
| Configuration: | | EUT , AC Adapter /HS | | | | | | | | |
| Location: | | Chamber C | | | | | | | | |
| Mode: | | LTE_QPSK Band 12 Harmonics, 1.4MHz Bandwidth | | | | | | | | |
| Band | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 699.7 | | | | | | | | | | |
| LTE12 | 1399.40 | -30.0 | V | 3.0 | 37.4 | 1.0 | -66.3 | -13.0 | -53.3 | |
| | 2099.10 | -18.7 | V | 3.0 | 36.6 | 1.0 | -54.2 | -13.0 | -41.2 | |
| 1.4MHz | 2798.80 | -21.8 | V | 3.0 | 36.4 | 1.0 | -57.1 | -13.0 | -44.1 | |
| | 1399.40 | -28.9 | H | 3.0 | 37.4 | 1.0 | -65.3 | -13.0 | -52.3 | |
| QPSK | 2099.10 | -21.1 | H | 3.0 | 36.6 | 1.0 | -56.6 | -13.0 | -43.6 | |
| | 2798.80 | -24.0 | H | 3.0 | 36.4 | 1.0 | -59.3 | -13.0 | -46.3 | |
| Mid Ch, 707.50 | | | | | | | | | | |
| | 1415.00 | -29.1 | V | 3.0 | 37.3 | 1.0 | -65.4 | -13.0 | -52.4 | |
| | 2122.00 | -17.6 | V | 3.0 | 36.6 | 1.0 | -53.2 | -13.0 | -40.2 | |
| | 2830.00 | -21.7 | V | 3.0 | 36.4 | 1.0 | -57.1 | -13.0 | -44.1 | |
| | 1415.00 | -29.5 | H | 3.0 | 37.3 | 1.0 | -65.8 | -13.0 | -52.8 | |
| | 2122.00 | -20.5 | H | 3.0 | 36.6 | 1.0 | -56.0 | -13.0 | -43.0 | |
| | 2830.00 | -23.4 | H | 3.0 | 36.4 | 1.0 | -58.8 | -13.0 | -45.8 | |
| High Ch, 715.3 | | | | | | | | | | |
| | 1430.60 | -30.6 | V | 3.0 | 37.3 | 1.0 | -66.9 | -13.0 | -53.9 | |
| | 2145.90 | -17.8 | V | 3.0 | 36.6 | 1.0 | -53.4 | -13.0 | -40.4 | |
| | 2861.20 | -21.4 | V | 3.0 | 36.4 | 1.0 | -56.8 | -13.0 | -43.8 | |
| | 1430.60 | -28.2 | H | 3.0 | 37.3 | 1.0 | -64.5 | -13.0 | -51.5 | |
| | 2145.90 | -19.8 | H | 3.0 | 36.6 | 1.0 | -55.4 | -13.0 | -42.4 | |
| | 2861.20 | -23.2 | H | 3.0 | 36.4 | 1.0 | -58.6 | -13.0 | -45.6 | |

LTE Band 13

| Band LTE13 10MHz 16QAM | UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---------------------|--|-----------------|-----------------|----------------|---------------|----------------|---------------|-------|----------|---------------------|--------------------|-----------------|-----------------|----------------|---------------|----------------|---------------|-------|-------------|--|--|--|--|--|--|--|--|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|
| | Company: | | LG Electronics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Project #: | | 15I21235 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Date: | | 7/19/2015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Test Engineer: | | S. Tran | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Configuration: | | EUT , AC Adapter, Headset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Location: | | Chamber C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mode: | | LTE_16QAM Band 13 Harmonics, 10MHz Bandwidth | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Pream p (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Mid Ch, 782</td> </tr> <tr> <td>1564.00</td> <td>-29.0</td> <td>V</td> <td>3.0</td> <td>37.1</td> <td>1.0</td> <td>-65.1</td> <td>-13.0</td> <td>-52.1</td> <td></td> </tr> <tr> <td>2346.00</td> <td>-24.6</td> <td>V</td> <td>3.0</td> <td>36.5</td> <td>1.0</td> <td>-60.1</td> <td>-13.0</td> <td>-47.1</td> <td></td> </tr> <tr> <td>3128.00</td> <td>-22.4</td> <td>V</td> <td>3.0</td> <td>36.3</td> <td>1.0</td> <td>-57.7</td> <td>-13.0</td> <td>-44.7</td> <td></td> </tr> <tr> <td>1564.00</td> <td>-29.2</td> <td>H</td> <td>3.0</td> <td>37.1</td> <td>1.0</td> <td>-65.3</td> <td>-13.0</td> <td>-52.3</td> <td></td> </tr> <tr> <td>2346.00</td> <td>-25.3</td> <td>H</td> <td>3.0</td> <td>36.5</td> <td>1.0</td> <td>-60.8</td> <td>-13.0</td> <td>-47.8</td> <td></td> </tr> <tr> <td>3128.00</td> <td>-22.0</td> <td>H</td> <td>3.0</td> <td>36.3</td> <td>1.0</td> <td>-57.3</td> <td>-13.0</td> <td>-44.3</td> <td></td> </tr> </tbody> </table> | | | | | | | | | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Pream p (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Mid Ch, 782 | | | | | | | | | | 1564.00 | -29.0 | V | 3.0 | 37.1 | 1.0 | -65.1 | -13.0 | -52.1 | | 2346.00 | -24.6 | V | 3.0 | 36.5 | 1.0 | -60.1 | -13.0 | -47.1 | | 3128.00 | -22.4 | V | 3.0 | 36.3 | 1.0 | -57.7 | -13.0 | -44.7 | | 1564.00 | -29.2 | H | 3.0 | 37.1 | 1.0 | -65.3 | -13.0 | -52.3 | | 2346.00 | -25.3 | H | 3.0 | 36.5 | 1.0 | -60.8 | -13.0 | -47.8 | | 3128.00 | -22.0 | H | 3.0 | 36.3 | 1.0 | -57.3 | -13.0 | -44.3 | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Pream p (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mid Ch, 782 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1564.00 | -29.0 | V | 3.0 | 37.1 | 1.0 | -65.1 | -13.0 | -52.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2346.00 | -24.6 | V | 3.0 | 36.5 | 1.0 | -60.1 | -13.0 | -47.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3128.00 | -22.4 | V | 3.0 | 36.3 | 1.0 | -57.7 | -13.0 | -44.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1564.00 | -29.2 | H | 3.0 | 37.1 | 1.0 | -65.3 | -13.0 | -52.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2346.00 | -25.3 | H | 3.0 | 36.5 | 1.0 | -60.8 | -13.0 | -47.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3128.00 | -22.0 | H | 3.0 | 36.3 | 1.0 | -57.3 | -13.0 | -44.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Band LTE13 10MHz QPSK | UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|-------|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|--------------------|--|--|--|--|--|--|--|--|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|---------|-------|---|-----|------|-----|-------|-------|-------|--|
| | Company: | | LG Electronics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Project #: | | 15I21235 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Date: | | 7/19/2015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Test Engineer: | | S. Tran | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Configuration: | | EUT , AC Adapter, Headset | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Location: | | Chamber C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Mode: | | LTE_QPSK Band 13 Harmonics, 10MHz Bandwidth | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Mid Ch, 782</td> </tr> <tr> <td>1564.00</td> <td>-28.9</td> <td>V</td> <td>3.0</td> <td>37.1</td> <td>1.0</td> <td>-65.0</td> <td>-13.0</td> <td>-52.0</td> <td></td> </tr> <tr> <td>2346.00</td> <td>-24.5</td> <td>V</td> <td>3.0</td> <td>36.5</td> <td>1.0</td> <td>-60.0</td> <td>-13.0</td> <td>-47.0</td> <td></td> </tr> <tr> <td>3128.00</td> <td>-22.3</td> <td>V</td> <td>3.0</td> <td>36.3</td> <td>1.0</td> <td>-57.6</td> <td>-13.0</td> <td>-44.6</td> <td></td> </tr> <tr> <td>1564.00</td> <td>-29.1</td> <td>H</td> <td>3.0</td> <td>37.1</td> <td>1.0</td> <td>-65.2</td> <td>-13.0</td> <td>-52.2</td> <td></td> </tr> <tr> <td>2346.00</td> <td>-25.3</td> <td>H</td> <td>3.0</td> <td>36.5</td> <td>1.0</td> <td>-60.8</td> <td>-13.0</td> <td>-47.8</td> <td></td> </tr> <tr> <td>3128.00</td> <td>-21.9</td> <td>H</td> <td>3.0</td> <td>36.3</td> <td>1.0</td> <td>-57.2</td> <td>-13.0</td> <td>-44.2</td> <td></td> </tr> </tbody> </table> | | | | | | | | | | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | Mid Ch, 782 | | | | | | | | | | 1564.00 | -28.9 | V | 3.0 | 37.1 | 1.0 | -65.0 | -13.0 | -52.0 | | 2346.00 | -24.5 | V | 3.0 | 36.5 | 1.0 | -60.0 | -13.0 | -47.0 | | 3128.00 | -22.3 | V | 3.0 | 36.3 | 1.0 | -57.6 | -13.0 | -44.6 | | 1564.00 | -29.1 | H | 3.0 | 37.1 | 1.0 | -65.2 | -13.0 | -52.2 | | 2346.00 | -25.3 | H | 3.0 | 36.5 | 1.0 | -60.8 | -13.0 | -47.8 | | 3128.00 | -21.9 | H | 3.0 | 36.3 | 1.0 | -57.2 | -13.0 | -44.2 | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mid Ch, 782 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1564.00 | -28.9 | V | 3.0 | 37.1 | 1.0 | -65.0 | -13.0 | -52.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2346.00 | -24.5 | V | 3.0 | 36.5 | 1.0 | -60.0 | -13.0 | -47.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3128.00 | -22.3 | V | 3.0 | 36.3 | 1.0 | -57.6 | -13.0 | -44.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1564.00 | -29.1 | H | 3.0 | 37.1 | 1.0 | -65.2 | -13.0 | -52.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2346.00 | -25.3 | H | 3.0 | 36.5 | 1.0 | -60.8 | -13.0 | -47.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3128.00 | -21.9 | H | 3.0 | 36.3 | 1.0 | -57.2 | -13.0 | -44.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_16QAM Band 13 Harmonics, 5MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| LTE13 | | | | | | | | | |
| 5MHz | | | | | | | | | |
| 16QAM | | | | | | | | | |
| Low Ch, 779.5 | | | | | | | | | |
| 1559.00 | -28.5 | V | 3.0 | 37.1 | 1.0 | -64.6 | -13.0 | -51.6 | |
| 2338.50 | -24.5 | V | 3.0 | 36.5 | 1.0 | -60.0 | -13.0 | -47.0 | |
| 3118.00 | -22.3 | V | 3.0 | 36.3 | 1.0 | -57.6 | -13.0 | -44.6 | |
| 1559.00 | -29.5 | H | 3.0 | 37.1 | 1.0 | -65.7 | -13.0 | -52.7 | |
| 2338.50 | -25.6 | H | 3.0 | 36.5 | 1.0 | -61.1 | -13.0 | -48.1 | |
| 3118.00 | -22.7 | H | 3.0 | 36.3 | 1.0 | -58.0 | -13.0 | -45.0 | |
| Mid Ch, 782 | | | | | | | | | |
| 1564.00 | -29.2 | V | 3.0 | 37.1 | 1.0 | -65.4 | -13.0 | -52.4 | |
| 2346.00 | -24.2 | V | 3.0 | 36.5 | 1.0 | -59.7 | -13.0 | -46.7 | |
| 3128.00 | -22.1 | V | 3.0 | 36.3 | 1.0 | -57.3 | -13.0 | -44.3 | |
| 1564.00 | -28.8 | H | 3.0 | 37.1 | 1.0 | -64.9 | -13.0 | -51.9 | |
| 2346.00 | -25.5 | H | 3.0 | 36.5 | 1.0 | -61.0 | -13.0 | -48.0 | |
| 3128.00 | -25.0 | H | 3.0 | 36.3 | 1.0 | -60.3 | -13.0 | -47.3 | |
| High Ch, 784.5 | | | | | | | | | |
| 1569.00 | -28.9 | V | 3.0 | 37.1 | 1.0 | -65.0 | -13.0 | -52.0 | |
| 2353.50 | -24.6 | V | 3.0 | 36.5 | 1.0 | -60.1 | -13.0 | -47.1 | |
| 3138.00 | -22.3 | V | 3.0 | 36.3 | 1.0 | -57.6 | -13.0 | -44.6 | |
| 1569.00 | -29.6 | H | 3.0 | 37.1 | 1.0 | -65.7 | -13.0 | -52.7 | |
| 2353.50 | -26.2 | H | 3.0 | 36.5 | 1.0 | -61.7 | -13.0 | -48.7 | |
| 3138.00 | -22.2 | H | 3.0 | 36.3 | 1.0 | -57.5 | -13.0 | -44.5 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|--|----------------|--|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | | |
| Location: | | Chamber C | | | | | | | | |
| Mode: | | LTE_QPSK Band 13 Harmonics, 5MHz Bandwidth | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | Low Ch, 779.5 | | | | | | | | | |
| | 1559.00 | -28.4 | V | 3.0 | 37.1 | 1.0 | -64.5 | -13.0 | -51.5 | |
| | 2338.50 | -24.4 | V | 3.0 | 36.5 | 1.0 | -59.9 | -13.0 | -46.9 | |
| LTE13 | 3118.00 | -22.2 | V | 3.0 | 36.3 | 1.0 | -57.5 | -13.0 | -44.5 | |
| | 1559.00 | -29.4 | H | 3.0 | 37.1 | 1.0 | -65.6 | -13.0 | -52.6 | |
| | 2338.50 | -25.5 | H | 3.0 | 36.5 | 1.0 | -61.0 | -13.0 | -48.0 | |
| 5MHz | 3118.00 | -22.6 | H | 3.0 | 36.3 | 1.0 | -57.9 | -13.0 | -44.9 | |
| | Mid Ch, 782 | | | | | | | | | |
| QPSK | 1564.00 | -29.1 | V | 3.0 | 37.1 | 1.0 | -65.2 | -13.0 | -52.2 | |
| | 2346.00 | -24.0 | V | 3.0 | 36.5 | 1.0 | -59.5 | -13.0 | -46.5 | |
| | 3128.00 | -21.9 | V | 3.0 | 36.3 | 1.0 | -57.2 | -13.0 | -44.2 | |
| | 1564.00 | -28.7 | H | 3.0 | 37.1 | 1.0 | -64.8 | -13.0 | -51.8 | |
| | 2346.00 | -25.3 | H | 3.0 | 36.5 | 1.0 | -60.8 | -13.0 | -47.8 | |
| | 3128.00 | -24.9 | H | 3.0 | 36.3 | 1.0 | -60.2 | -13.0 | -47.2 | |
| | High Ch, 784.5 | | | | | | | | | |
| | 1569.00 | -28.7 | V | 3.0 | 37.1 | 1.0 | -64.9 | -13.0 | -51.9 | |
| | 2353.50 | -24.5 | V | 3.0 | 36.5 | 1.0 | -60.0 | -13.0 | -47.0 | |
| | 3138.00 | -22.2 | V | 3.0 | 36.3 | 1.0 | -57.4 | -13.0 | -44.4 | |
| | 1569.00 | -29.4 | H | 3.0 | 37.1 | 1.0 | -65.6 | -13.0 | -52.6 | |
| | 2353.50 | -26.1 | H | 3.0 | 36.5 | 1.0 | -61.6 | -13.0 | -48.6 | |
| | 3138.00 | -22.1 | H | 3.0 | 36.3 | 1.0 | -57.4 | -13.0 | -44.4 | |

LTE Band 17

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | |
|--|---------------------|-----------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|--|
| | | Company: | LG | | | | | | | | |
| | | Project #: | 15I21235 | | | | | | | | |
| | | Date: | 7/22/2015 | | | | | | | | |
| | | Test Engineer: | A. Escamilla | | | | | | | | |
| | | Configuration: | EUT , AC Adapter /HS | | | | | | | | |
| | | 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 | -30.2 | V | 3.0 | 37.4 | 1.0 | -66.5 | -13.0 | -53.5 | | |
| | 2127.00 | -18.2 | V | 3.0 | 36.6 | 1.0 | -53.8 | -13.0 | -40.8 | | |
| 10MHz | 2836.00 | -22.1 | V | 3.0 | 36.4 | 1.0 | -57.5 | -13.0 | -44.5 | | |
| | 1418.00 | -29.5 | H | 3.0 | 37.4 | 1.0 | -65.9 | -13.0 | -52.9 | | |
| 16QAM | 2127.00 | -20.0 | H | 3.0 | 36.6 | 1.0 | -55.6 | -13.0 | -42.6 | | |
| | 2836.00 | -23.2 | H | 3.0 | 36.4 | 1.0 | -58.6 | -13.0 | -45.6 | | |
| | Mid Ch, 710 | | | | | | | | | | |
| | 1420.00 | -30.2 | V | 3.0 | 37.3 | 1.0 | -66.6 | -13.0 | -53.6 | | |
| | 2130.00 | -19.3 | V | 3.0 | 36.6 | 1.0 | -54.9 | -13.0 | -41.9 | | |
| | 2840.00 | -22.6 | V | 3.0 | 36.4 | 1.0 | -58.0 | -13.0 | -45.0 | | |
| | 1420.00 | -29.0 | H | 3.0 | 37.3 | 1.0 | -65.3 | -13.0 | -52.3 | | |
| | 2130.00 | -19.1 | H | 3.0 | 36.6 | 1.0 | -54.7 | -13.0 | -41.7 | | |
| | 2840.00 | -22.8 | H | 3.0 | 36.4 | 1.0 | -58.2 | -13.0 | -45.2 | | |
| | High Ch, 711 | | | | | | | | | | |
| | 1422.00 | -29.1 | V | 3.0 | 37.3 | 1.0 | -65.4 | -13.0 | -52.4 | | |
| | 2133.00 | -18.0 | V | 3.0 | 36.6 | 1.0 | -53.6 | -13.0 | -40.6 | | |
| | 2844.00 | -21.9 | V | 3.0 | 36.4 | 1.0 | -57.3 | -13.0 | -44.3 | | |
| | 1422.00 | -28.9 | H | 3.0 | 37.3 | 1.0 | -65.3 | -13.0 | -52.3 | | |
| | 2133.00 | -19.7 | H | 3.0 | 36.6 | 1.0 | -55.3 | -13.0 | -42.3 | | |
| | 2844.00 | -22.7 | H | 3.0 | 36.4 | 1.0 | -58.1 | -13.0 | -45.1 | | |

| UL Verification Services, Inc. | | | | | | | | | | |
|---|---------|---|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
| Company: | | LG | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/22/2015 | | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | | |
| Configuration: | | EUT , AC Adapter /HS | | | | | | | | |
| 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 | -29.7 | V | 3.0 | 37.4 | 1.0 | -66.0 | -13.0 | -53.0 | |
| | 2127.00 | -16.8 | V | 3.0 | 36.6 | 1.0 | -52.4 | -13.0 | -39.4 | |
| 10MHz | 2836.00 | -21.6 | V | 3.0 | 36.4 | 1.0 | -56.9 | -13.0 | -43.9 | |
| | 1418.00 | -28.9 | H | 3.0 | 37.4 | 1.0 | -65.3 | -13.0 | -52.3 | |
| QPSK | 2127.00 | -19.3 | H | 3.0 | 36.6 | 1.0 | -54.9 | -13.0 | -41.9 | |
| | 2836.00 | -22.5 | H | 3.0 | 36.4 | 1.0 | -57.9 | -13.0 | -44.9 | |
| Mid Ch, 710 | | | | | | | | | | |
| | 1420.00 | -30.0 | V | 3.0 | 37.3 | 1.0 | -66.4 | -13.0 | -53.4 | |
| | 2130.00 | -17.9 | V | 3.0 | 36.6 | 1.0 | -53.5 | -13.0 | -40.5 | |
| | 2840.00 | -22.0 | V | 3.0 | 36.4 | 1.0 | -57.4 | -13.0 | -44.4 | |
| | 1420.00 | -29.2 | H | 3.0 | 37.3 | 1.0 | -65.6 | -13.0 | -52.6 | |
| | 2130.00 | -19.4 | H | 3.0 | 36.6 | 1.0 | -54.9 | -13.0 | -41.9 | |
| | 2840.00 | -22.3 | H | 3.0 | 36.4 | 1.0 | -57.6 | -13.0 | -44.6 | |
| High Ch, 711 | | | | | | | | | | |
| | 1422.00 | -30.0 | V | 3.0 | 37.3 | 1.0 | -66.3 | -13.0 | -53.3 | |
| | 2133.00 | -17.2 | V | 3.0 | 36.6 | 1.0 | -52.8 | -13.0 | -39.8 | |
| | 2844.00 | -21.5 | V | 3.0 | 36.4 | 1.0 | -56.9 | -13.0 | -43.9 | |
| | 1422.00 | -29.3 | H | 3.0 | 37.3 | 1.0 | -65.6 | -13.0 | -52.6 | |
| | 2133.00 | -19.2 | H | 3.0 | 36.6 | 1.0 | -54.8 | -13.0 | -41.8 | |
| | 2844.00 | -22.7 | H | 3.0 | 36.4 | 1.0 | -58.1 | -13.0 | -45.1 | |

| UL Verification Services, Inc. | | | | | | | | | | |
|---|-----------------------|---|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
| Company: | | LG | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/22/2015 | | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | | |
| Configuration: | | EUT , AC Adapter /HS | | | | | | | | |
| Location: | | Chamber C | | | | | | | | |
| Mode: | | LTE_16QAM Band 32 Harmonics, 5MHz Bandwidth | | | | | | | | |
| Band | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | Low Ch, 706.5 | | | | | | | | | |
| LTE17 | 1413.00 | -30.6 | V | 3.0 | 37.4 | 1.0 | -67.0 | -13.0 | -54.0 | |
| | 2119.50 | -18.3 | V | 3.0 | 36.6 | 1.0 | -53.8 | -13.0 | -40.8 | |
| 5MHz | 2826.00 | -22.0 | V | 3.0 | 36.4 | 1.0 | -57.4 | -13.0 | -44.4 | |
| | 1413.00 | -29.2 | H | 3.0 | 37.4 | 1.0 | -65.6 | -13.0 | -52.6 | |
| 16QAM | 2119.50 | -21.2 | H | 3.0 | 36.6 | 1.0 | -56.8 | -13.0 | -43.8 | |
| | 2826.00 | -23.1 | H | 3.0 | 36.4 | 1.0 | -58.4 | -13.0 | -45.4 | |
| | Mid Ch, 710 | | | | | | | | | |
| | 1420.00 | -30.6 | V | 3.0 | 37.3 | 1.0 | -67.0 | -13.0 | -54.0 | |
| | 2130.00 | -18.4 | V | 3.0 | 36.6 | 1.0 | -53.9 | -13.0 | -40.9 | |
| | 2840.00 | -22.2 | V | 3.0 | 36.4 | 1.0 | -57.6 | -13.0 | -44.6 | |
| | 1420.00 | -29.1 | H | 3.0 | 37.3 | 1.0 | -65.5 | -13.0 | -52.5 | |
| | 2130.00 | -20.7 | H | 3.0 | 36.6 | 1.0 | -56.3 | -13.0 | -43.3 | |
| | 2840.00 | -23.2 | H | 3.0 | 36.4 | 1.0 | -58.5 | -13.0 | -45.5 | |
| | High Ch, 713.5 | | | | | | | | | |
| | 1427.00 | -30.3 | V | 3.0 | 37.3 | 1.0 | -66.6 | -13.0 | -53.6 | |
| | 2140.50 | -18.1 | V | 3.0 | 36.6 | 1.0 | -53.6 | -13.0 | -40.6 | |
| | 2854.00 | -21.9 | V | 3.0 | 36.4 | 1.0 | -57.3 | -13.0 | -44.3 | |
| | 1427.00 | -29.1 | H | 3.0 | 37.3 | 1.0 | -65.4 | -13.0 | -52.4 | |
| | 2140.50 | -19.2 | H | 3.0 | 36.6 | 1.0 | -54.7 | -13.0 | -41.7 | |
| | 2854.00 | -22.0 | H | 3.0 | 36.4 | 1.0 | -57.4 | -13.0 | -44.4 | |

| UL Verification Services, Inc. | | | | | | | | | | |
|---|---------|--|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
| Company: | | LG | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/22/2015 | | | | | | | | |
| Test Engineer: | | A. Escamilla | | | | | | | | |
| Configuration: | | EUT , AC Adapter /HS | | | | | | | | |
| Location: | | Chamber C | | | | | | | | |
| Mode: | | LTE_QPSK Band 32 Harmonics, 5MHz Bandwidth | | | | | | | | |
| Band | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 706.5 | | | | | | | | | | |
| LTE17 | 1413.00 | -30.0 | V | 3.0 | 37.4 | 1.0 | -66.4 | -13.0 | -53.4 | |
| | 2119.50 | -17.0 | V | 3.0 | 36.6 | 1.0 | -52.6 | -13.0 | -39.6 | |
| 5MHz | 2826.00 | -21.9 | V | 3.0 | 36.4 | 1.0 | -57.3 | -13.0 | -44.3 | |
| | 1413.00 | -29.7 | H | 3.0 | 37.4 | 1.0 | -66.1 | -13.0 | -53.1 | |
| QPSK | 2119.50 | -21.1 | H | 3.0 | 36.6 | 1.0 | -56.7 | -13.0 | -43.7 | |
| | 2826.00 | -22.5 | H | 3.0 | 36.4 | 1.0 | -57.9 | -13.0 | -44.9 | |
| Mid Ch, 710 | | | | | | | | | | |
| | 1420.00 | -30.3 | V | 3.0 | 37.3 | 1.0 | -66.7 | -13.0 | -53.7 | |
| | 2130.00 | -18.2 | V | 3.0 | 36.6 | 1.0 | -53.7 | -13.0 | -40.7 | |
| | 2840.00 | -21.1 | V | 3.0 | 36.4 | 1.0 | -56.5 | -13.0 | -43.5 | |
| | 1420.00 | -29.1 | H | 3.0 | 37.3 | 1.0 | -65.5 | -13.0 | -52.5 | |
| | 2130.00 | -19.9 | H | 3.0 | 36.6 | 1.0 | -55.4 | -13.0 | -42.4 | |
| | 2840.00 | -23.0 | H | 3.0 | 36.4 | 1.0 | -58.4 | -13.0 | -45.4 | |
| High Ch, 713.5 | | | | | | | | | | |
| | 1427.00 | -30.0 | V | 3.0 | 37.3 | 1.0 | -66.3 | -13.0 | -53.3 | |
| | 2140.50 | -18.0 | V | 3.0 | 36.6 | 1.0 | -53.5 | -13.0 | -40.5 | |
| | 2854.00 | -21.3 | V | 3.0 | 36.4 | 1.0 | -56.7 | -13.0 | -43.7 | |
| | 1427.00 | -28.9 | H | 3.0 | 37.3 | 1.0 | -65.2 | -13.0 | -52.2 | |
| | 2140.50 | -19.9 | H | 3.0 | 36.6 | 1.0 | -55.5 | -13.0 | -42.5 | |
| | 2854.00 | -23.0 | H | 3.0 | 36.4 | 1.0 | -58.4 | -13.0 | -45.4 | |

LTE Band 25

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|---|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: LG Project #: 15I21235 Date: 7/14/2015 Test Engineer: O. Stoelting Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber A Mode: LTE_16QAM Band 25 Harmonics, 20MHz Bandwidth | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1860 | | | | | | | | | |
| Band | 3720.00 | -18.2 | V | 3.0 | 35.8 | 1.0 | -53.0 | -13.0 | -40.0 |
| | 5580.00 | -16.6 | V | 3.0 | 35.5 | 1.0 | -51.1 | -13.0 | -38.1 |
| LTE25 | 7440.00 | -16.4 | V | 3.0 | 35.7 | 1.0 | -51.1 | -13.0 | -38.1 |
| | 3720.00 | -18.2 | H | 3.0 | 35.8 | 1.0 | -53.1 | -13.0 | -40.1 |
| 20MHz | 5580.00 | -15.3 | H | 3.0 | 35.5 | 1.0 | -49.7 | -13.0 | -36.7 |
| | 7440.00 | -15.0 | H | 3.0 | 35.7 | 1.0 | -49.7 | -13.0 | -36.7 |
| Mid Ch, 1882.5 | | | | | | | | | |
| 16QAM | 3765.00 | -18.4 | V | 3.0 | 35.8 | 1.0 | -53.2 | -13.0 | -40.2 |
| | 5647.50 | -17.4 | V | 3.0 | 35.5 | 1.0 | -51.8 | -13.0 | -38.8 |
| | 7530.00 | -15.2 | V | 3.0 | 35.7 | 1.0 | -50.0 | -13.0 | -37.0 |
| | 3765.00 | -18.7 | H | 3.0 | 35.8 | 1.0 | -53.5 | -13.0 | -40.5 |
| | 5647.50 | -17.4 | H | 3.0 | 35.5 | 1.0 | -51.8 | -13.0 | -38.8 |
| | 7530.00 | -14.6 | H | 3.0 | 35.7 | 1.0 | -49.3 | -13.0 | -36.3 |
| High Ch, 1905 | | | | | | | | | |
| | 3810.00 | -17.1 | V | 3.0 | 35.8 | 1.0 | -51.9 | -13.0 | -38.9 |
| | 5715.00 | -17.3 | V | 3.0 | 35.5 | 1.0 | -51.8 | -13.0 | -38.8 |
| | 7620.00 | -14.7 | V | 3.0 | 35.8 | 1.0 | -49.5 | -13.0 | -36.5 |
| | 3810.00 | -17.7 | H | 3.0 | 35.8 | 1.0 | -52.5 | -13.0 | -39.5 |
| | 5715.00 | -16.4 | H | 3.0 | 35.5 | 1.0 | -50.9 | -13.0 | -37.9 |
| | 7620.00 | -14.6 | H | 3.0 | 35.8 | 1.0 | -49.4 | -13.0 | -36.4 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: LG Project #: 15I21235 Date: 7/14/2015 Test Engineer: O. Stoelting Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber A Mode: LTE_QPSK Band 25 Harmonics, 20MHz Bandwidth | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1860 | | | | | | | | | |
| Band | 3720.00 | -18.4 | V | 3.0 | 35.8 | 1.0 | -53.3 | -13.0 | -40.3 |
| | 5580.00 | -17.0 | V | 3.0 | 35.5 | 1.0 | -51.4 | -13.0 | -38.4 |
| LTE25 | 7440.00 | -15.5 | V | 3.0 | 35.7 | 1.0 | -50.2 | -13.0 | -37.2 |
| | 3720.00 | -18.6 | H | 3.0 | 35.8 | 1.0 | -53.4 | -13.0 | -40.4 |
| | 5580.00 | -15.9 | H | 3.0 | 35.5 | 1.0 | -50.4 | -13.0 | -37.4 |
| 20MHz | 7440.00 | -14.4 | H | 3.0 | 35.7 | 1.0 | -49.2 | -13.0 | -36.2 |
| Mid Ch, 1882.5 | | | | | | | | | |
| QPSK | 3765.00 | -16.2 | V | 3.0 | 35.8 | 1.0 | -51.0 | -13.0 | -38.0 |
| | 5647.50 | -16.5 | V | 3.0 | 35.5 | 1.0 | -51.0 | -13.0 | -38.0 |
| | 7530.00 | -15.4 | V | 3.0 | 35.7 | 1.0 | -50.1 | -13.0 | -37.1 |
| | 3765.00 | -18.4 | H | 3.0 | 35.8 | 1.0 | -53.2 | -13.0 | -40.2 |
| | 5647.50 | -16.9 | H | 3.0 | 35.5 | 1.0 | -51.4 | -13.0 | -38.4 |
| | 7530.00 | -14.0 | H | 3.0 | 35.7 | 1.0 | -48.8 | -13.0 | -35.8 |
| High Ch, 1905 | | | | | | | | | |
| | 3810.00 | -17.7 | V | 3.0 | 35.8 | 1.0 | -52.5 | -13.0 | -39.5 |
| | 5715.00 | -16.8 | V | 3.0 | 35.5 | 1.0 | -51.3 | -13.0 | -38.3 |
| | 7620.00 | -15.7 | V | 3.0 | 35.8 | 1.0 | -50.5 | -13.0 | -37.5 |
| | 3810.00 | -18.6 | H | 3.0 | 35.8 | 1.0 | -53.4 | -13.0 | -40.4 |
| | 5715.00 | -16.3 | H | 3.0 | 35.5 | 1.0 | -50.8 | -13.0 | -37.8 |
| | 7620.00 | -14.3 | H | 3.0 | 35.8 | 1.0 | -49.1 | -13.0 | -36.1 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_16QAM Band 25 Harmonics, 15MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| LTE25 | | | | | | | | | |
| 15MHz | | | | | | | | | |
| 16QAM | | | | | | | | | |
| Low Ch, 1857.5 | | | | | | | | | |
| 3715.00 | -18.2 | V | 3.0 | 35.8 | 1.0 | -53.0 | -13.0 | -40.0 | |
| 5572.50 | -16.1 | V | 3.0 | 35.5 | 1.0 | -50.5 | -13.0 | -37.5 | |
| 7430.00 | -16.0 | V | 3.0 | 35.7 | 1.0 | -50.8 | -13.0 | -37.8 | |
| 3715.00 | -18.5 | H | 3.0 | 35.8 | 1.0 | -53.3 | -13.0 | -40.3 | |
| 5572.50 | -14.6 | H | 3.0 | 35.5 | 1.0 | -49.1 | -13.0 | -36.1 | |
| 7430.00 | -14.7 | H | 3.0 | 35.7 | 1.0 | -49.4 | -13.0 | -36.4 | |
| Mid Ch, 1882.5 | | | | | | | | | |
| 3815.00 | -18.9 | V | 3.0 | 35.8 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 5722.50 | -17.7 | V | 3.0 | 35.5 | 1.0 | -52.2 | -13.0 | -39.2 | |
| 7630.00 | -14.4 | V | 3.0 | 35.7 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 3815.00 | -18.7 | H | 3.0 | 35.8 | 1.0 | -53.6 | -13.0 | -40.6 | |
| 5722.50 | -16.2 | H | 3.0 | 35.5 | 1.0 | -50.7 | -13.0 | -37.7 | |
| 7630.00 | -13.8 | H | 3.0 | 35.7 | 1.0 | -48.6 | -13.0 | -35.6 | |
| High Ch, 1907.5 | | | | | | | | | |
| 3815.00 | -18.1 | V | 3.0 | 35.8 | 1.0 | -52.8 | -13.0 | -39.8 | |
| 5722.50 | -16.6 | V | 3.0 | 35.5 | 1.0 | -51.1 | -13.0 | -38.1 | |
| 7630.00 | -15.3 | V | 3.0 | 35.8 | 1.0 | -50.0 | -13.0 | -37.0 | |
| 3815.00 | -17.6 | H | 3.0 | 35.8 | 1.0 | -52.4 | -13.0 | -39.4 | |
| 5722.50 | -17.0 | H | 3.0 | 35.5 | 1.0 | -51.5 | -13.0 | -38.5 | |
| 7630.00 | -14.1 | H | 3.0 | 35.8 | 1.0 | -48.8 | -13.0 | -35.8 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_QPSK Band 25 Harmonics, 15MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Low Ch, 1857.5 | | | | | | | | | |
| 3715.00 | -17.5 | V | 3.0 | 35.8 | 1.0 | -52.4 | -13.0 | -39.4 | |
| 5572.50 | -16.5 | V | 3.0 | 35.5 | 1.0 | -51.0 | -13.0 | -38.0 | |
| LTE25 | | | | | | | | | |
| 7430.00 | -16.0 | V | 3.0 | 35.7 | 1.0 | -50.7 | -13.0 | -37.7 | |
| 3715.00 | -18.8 | H | 3.0 | 35.8 | 1.0 | -53.7 | -13.0 | -40.7 | |
| 5572.50 | -15.1 | H | 3.0 | 35.5 | 1.0 | -49.5 | -13.0 | -36.5 | |
| 15MHz | | | | | | | | | |
| 7430.00 | -14.8 | H | 3.0 | 35.7 | 1.0 | -49.6 | -13.0 | -36.6 | |
| Mid Ch, 1882.5 | | | | | | | | | |
| 3765.00 | -18.4 | V | 3.0 | 35.8 | 1.0 | -53.2 | -13.0 | -40.2 | |
| 5647.50 | -17.8 | V | 3.0 | 35.5 | 1.0 | -52.3 | -13.0 | -39.3 | |
| 7530.00 | -15.6 | V | 3.0 | 35.7 | 1.0 | -50.4 | -13.0 | -37.4 | |
| 3765.00 | -17.1 | H | 3.0 | 35.8 | 1.0 | -51.9 | -13.0 | -38.9 | |
| 5647.50 | -16.2 | H | 3.0 | 35.5 | 1.0 | -50.7 | -13.0 | -37.7 | |
| 7530.00 | -14.7 | H | 3.0 | 35.7 | 1.0 | -49.5 | -13.0 | -36.5 | |
| QPSK | | | | | | | | | |
| High Ch, 1907.5 | | | | | | | | | |
| 3815.00 | -18.6 | V | 3.0 | 35.8 | 1.0 | -53.3 | -13.0 | -40.3 | |
| 5722.50 | -17.4 | V | 3.0 | 35.5 | 1.0 | -51.9 | -13.0 | -38.9 | |
| 7630.00 | -13.4 | V | 3.0 | 35.8 | 1.0 | -48.1 | -13.0 | -35.1 | |
| 3815.00 | -17.7 | H | 3.0 | 35.8 | 1.0 | -52.5 | -13.0 | -39.5 | |
| 5722.50 | -15.9 | H | 3.0 | 35.5 | 1.0 | -50.4 | -13.0 | -37.4 | |
| 7630.00 | -14.6 | H | 3.0 | 35.8 | 1.0 | -49.4 | -13.0 | -36.4 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_16QAM Band 25 Harmonics, 10MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1855 | | | | | | | | | |
| Band | 3710.00 | -17.8 | V | 3.0 | 35.9 | 1.0 | -52.7 | -13.0 | -39.7 |
| | 5565.00 | -16.0 | V | 3.0 | 35.5 | 1.0 | -50.5 | -13.0 | -37.5 |
| LTE25 | 7420.00 | -16.7 | V | 3.0 | 35.7 | 1.0 | -51.5 | -13.0 | -38.5 |
| | 3710.00 | -17.6 | H | 3.0 | 35.9 | 1.0 | -52.4 | -13.0 | -39.4 |
| | 5565.00 | -15.7 | H | 3.0 | 35.5 | 1.0 | -50.1 | -13.0 | -37.1 |
| 10MHz | 7420.00 | -15.1 | H | 3.0 | 35.7 | 1.0 | -49.8 | -13.0 | -36.8 |
| Mid Ch, 1882.5 | | | | | | | | | |
| 16QAM | 3765.00 | -18.0 | V | 3.0 | 35.8 | 1.0 | -52.9 | -13.0 | -39.9 |
| | 5647.50 | -17.4 | V | 3.0 | 35.5 | 1.0 | -51.9 | -13.0 | -38.9 |
| | 7530.00 | -15.4 | V | 3.0 | 35.7 | 1.0 | -50.1 | -13.0 | -37.1 |
| | 3765.00 | -19.3 | H | 3.0 | 35.8 | 1.0 | -54.1 | -13.0 | -41.1 |
| | 5647.50 | -17.3 | H | 3.0 | 35.5 | 1.0 | -51.7 | -13.0 | -38.7 |
| | 7530.00 | -13.8 | H | 3.0 | 35.7 | 1.0 | -48.6 | -13.0 | -35.6 |
| High Ch, 1910 | | | | | | | | | |
| | 3820.00 | -15.5 | V | 3.0 | 35.8 | 1.0 | -50.3 | -13.0 | -37.3 |
| | 5730.00 | -15.8 | V | 3.0 | 35.5 | 1.0 | -50.3 | -13.0 | -37.3 |
| | 7640.00 | -15.3 | V | 3.0 | 35.8 | 1.0 | -50.1 | -13.0 | -37.1 |
| | 3820.00 | -18.0 | H | 3.0 | 35.8 | 1.0 | -52.8 | -13.0 | -39.8 |
| | 5730.00 | -15.5 | H | 3.0 | 35.5 | 1.0 | -50.0 | -13.0 | -37.0 |
| | 7640.00 | -14.0 | H | 3.0 | 35.8 | 1.0 | -48.8 | -13.0 | -35.8 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_QPSK Band 25 Harmonics, 10MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Low Ch, 1855 | | | | | | | | | |
| 3710.00 | -18.0 | V | 3.0 | 35.9 | 1.0 | -52.8 | -13.0 | -39.8 | |
| 5565.00 | -15.0 | V | 3.0 | 35.5 | 1.0 | -49.5 | -13.0 | -36.5 | |
| LTE25 | | | | | | | | | |
| 7420.00 | -15.9 | V | 3.0 | 35.7 | 1.0 | -50.6 | -13.0 | -37.6 | |
| 3710.00 | -17.9 | H | 3.0 | 35.9 | 1.0 | -52.7 | -13.0 | -39.7 | |
| 5565.00 | -15.7 | H | 3.0 | 35.5 | 1.0 | -50.2 | -13.0 | -37.2 | |
| 10MHz | | | | | | | | | |
| 7420.00 | -14.8 | H | 3.0 | 35.7 | 1.0 | -49.5 | -13.0 | -36.5 | |
| Mid Ch, 1882.5 | | | | | | | | | |
| 3765.00 | -18.4 | V | 3.0 | 35.8 | 1.0 | -53.2 | -13.0 | -40.2 | |
| 5647.50 | -17.5 | V | 3.0 | 35.5 | 1.0 | -52.0 | -13.0 | -39.0 | |
| 7530.00 | -15.6 | V | 3.0 | 35.7 | 1.0 | -50.3 | -13.0 | -37.3 | |
| 3765.00 | -19.1 | H | 3.0 | 35.8 | 1.0 | -53.9 | -13.0 | -40.9 | |
| 5647.50 | -17.3 | H | 3.0 | 35.5 | 1.0 | -51.8 | -13.0 | -38.8 | |
| 7530.00 | -14.7 | H | 3.0 | 35.7 | 1.0 | -49.5 | -13.0 | -36.5 | |
| QPSK | | | | | | | | | |
| High Ch, 1910 | | | | | | | | | |
| 3820.00 | -16.3 | V | 3.0 | 35.8 | 1.0 | -51.0 | -13.0 | -38.0 | |
| 5730.00 | -16.6 | V | 3.0 | 35.5 | 1.0 | -51.1 | -13.0 | -38.1 | |
| 7640.00 | -14.5 | V | 3.0 | 35.8 | 1.0 | -49.3 | -13.0 | -36.3 | |
| 3820.00 | -16.7 | H | 3.0 | 35.8 | 1.0 | -51.5 | -13.0 | -38.5 | |
| 5730.00 | -16.0 | H | 3.0 | 35.5 | 1.0 | -50.5 | -13.0 | -37.5 | |
| 7640.00 | -14.1 | H | 3.0 | 35.8 | 1.0 | -48.9 | -13.0 | -35.9 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: LG Project #: 15I21235 Date: 7/14/2015 Test Engineer: O. Stoelting Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber A Mode: LTE_16QAM Band 25 Harmonics, 5MHz Bandwidth | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1852.5 | | | | | | | | | |
| Band | 3705.00 | -18.5 | V | 3.0 | 35.9 | 1.0 | -53.4 | -13.0 | -40.4 |
| | 5557.50 | -16.3 | V | 3.0 | 35.5 | 1.0 | -50.8 | -13.0 | -37.8 |
| LTE25 | 7410.00 | -16.3 | V | 3.0 | 35.7 | 1.0 | -51.0 | -13.0 | -38.0 |
| | 3705.00 | -17.9 | H | 3.0 | 35.9 | 1.0 | -52.8 | -13.0 | -39.8 |
| | 5557.50 | -15.4 | H | 3.0 | 35.5 | 1.0 | -49.9 | -13.0 | -36.9 |
| 5MHz | 7410.00 | -14.3 | H | 3.0 | 35.7 | 1.0 | -49.1 | -13.0 | -36.1 |
| Mid Ch, 1882.5 | | | | | | | | | |
| 16QAM | 3765.00 | -18.9 | V | 3.0 | 35.8 | 1.0 | -53.7 | -13.0 | -40.7 |
| | 5647.50 | -17.8 | V | 3.0 | 35.5 | 1.0 | -52.3 | -13.0 | -39.3 |
| | 7530.00 | -15.8 | V | 3.0 | 35.7 | 1.0 | -50.5 | -13.0 | -37.5 |
| | 3765.00 | -18.2 | H | 3.0 | 35.8 | 1.0 | -53.0 | -13.0 | -40.0 |
| | 5647.50 | -17.3 | H | 3.0 | 35.5 | 1.0 | -51.8 | -13.0 | -38.8 |
| | 7530.00 | -14.6 | H | 3.0 | 35.7 | 1.0 | -49.3 | -13.0 | -36.3 |
| High Ch, 1912.5 | | | | | | | | | |
| | 3825.00 | -17.7 | V | 3.0 | 35.8 | 1.0 | -52.5 | -13.0 | -39.5 |
| | 5737.50 | -17.1 | V | 3.0 | 35.5 | 1.0 | -51.6 | -13.0 | -38.6 |
| | 7650.00 | -14.9 | V | 3.0 | 35.8 | 1.0 | -49.6 | -13.0 | -36.6 |
| | 3825.00 | -17.9 | H | 3.0 | 35.8 | 1.0 | -52.7 | -13.0 | -39.7 |
| | 5737.50 | -16.6 | H | 3.0 | 35.5 | 1.0 | -51.1 | -13.0 | -38.1 |
| | 7650.00 | -14.4 | H | 3.0 | 35.8 | 1.0 | -49.2 | -13.0 | -36.2 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|--|-----------------|--|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|
| Company: | | LG | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | | |
| Location: | | Chamber A | | | | | | | | |
| Mode: | | LTE_QPSK Band 25 Harmonics, 5MHz Bandwidth | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | Low Ch, 1852.5 | | | | | | | | | |
| | 3705.00 | -17.1 | V | 3.0 | 35.9 | 1.0 | -51.9 | -13.0 | -38.9 | |
| LTE25 | 5557.50 | -16.5 | V | 3.0 | 35.5 | 1.0 | -51.0 | -13.0 | -38.0 | |
| | 7410.00 | -15.7 | V | 3.0 | 35.7 | 1.0 | -50.5 | -13.0 | -37.5 | |
| 5MHz | 3705.00 | -18.6 | H | 3.0 | 35.9 | 1.0 | -53.4 | -13.0 | -40.4 | |
| | 5557.50 | -15.1 | H | 3.0 | 35.5 | 1.0 | -49.6 | -13.0 | -36.6 | |
| QPSK | 7410.00 | -14.7 | H | 3.0 | 35.7 | 1.0 | -49.4 | -13.0 | -36.4 | |
| | Mid Ch, 1882.5 | | | | | | | | | |
| | 3765.00 | -19.1 | V | 3.0 | 35.8 | 1.0 | -53.9 | -13.0 | -40.9 | |
| | 5647.50 | -17.1 | V | 3.0 | 35.5 | 1.0 | -51.6 | -13.0 | -38.6 | |
| | 7530.00 | -15.8 | V | 3.0 | 35.7 | 1.0 | -50.6 | -13.0 | -37.6 | |
| | 3765.00 | -18.2 | H | 3.0 | 35.8 | 1.0 | -53.0 | -13.0 | -40.0 | |
| | 5647.50 | -16.3 | H | 3.0 | 35.5 | 1.0 | -50.8 | -13.0 | -37.8 | |
| | 7530.00 | -14.0 | H | 3.0 | 35.7 | 1.0 | -48.8 | -13.0 | -35.8 | |
| | High Ch, 1912.5 | | | | | | | | | |
| | 3825.00 | -17.5 | V | 3.0 | 35.8 | 1.0 | -52.3 | -13.0 | -39.3 | |
| | 5737.50 | -16.7 | V | 3.0 | 35.5 | 1.0 | -51.2 | -13.0 | -38.2 | |
| | 7650.00 | -15.9 | V | 3.0 | 35.8 | 1.0 | -50.7 | -13.0 | -37.7 | |
| | 3825.00 | -18.0 | H | 3.0 | 35.8 | 1.0 | -52.7 | -13.0 | -39.7 | |
| | 5737.50 | -15.6 | H | 3.0 | 35.5 | 1.0 | -50.1 | -13.0 | -37.1 | |
| | 7650.00 | -13.7 | H | 3.0 | 35.8 | 1.0 | -48.4 | -13.0 | -35.4 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|-----------------|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: LG Project #: 15I21235 Date: 7/14/2015 Test Engineer: O. Stoelting Configuration: X-pos EUT, Ac Charger, Headset Location: Chamber A Mode: LTE_16QAM Band 25 Harmonics, 3MHz Bandwidth | | | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1851.5 | | | | | | | | | |
| Band | 3703.00 | -18.9 | V | 3.0 | 35.9 | 1.0 | -53.7 | -13.0 | -40.7 |
| | 5554.50 | -16.3 | V | 3.0 | 35.5 | 1.0 | -50.7 | -13.0 | -37.7 |
| LTE25 | 7406.00 | -15.0 | V | 3.0 | 35.7 | 1.0 | -49.7 | -13.0 | -36.7 |
| | 3703.00 | -18.4 | H | 3.0 | 35.9 | 1.0 | -53.2 | -13.0 | -40.2 |
| | 5554.50 | -15.0 | H | 3.0 | 35.5 | 1.0 | -49.5 | -13.0 | -36.5 |
| 3MHz | 7406.00 | -14.3 | H | 3.0 | 35.7 | 1.0 | -49.1 | -13.0 | -36.1 |
| Mid Ch, 1882.5 | | | | | | | | | |
| 16QAM | 3765.00 | -16.2 | V | 3.0 | 35.8 | 1.0 | -51.1 | -13.0 | -38.1 |
| | 5647.50 | -15.5 | V | 3.0 | 35.5 | 1.0 | -50.0 | -13.0 | -37.0 |
| | 7530.00 | -13.0 | V | 3.0 | 35.7 | 1.0 | -47.8 | -13.0 | -34.8 |
| | 3765.00 | -16.4 | H | 3.0 | 35.8 | 1.0 | -51.2 | -13.0 | -38.2 |
| | 5647.50 | -15.1 | H | 3.0 | 35.5 | 1.0 | -49.6 | -13.0 | -36.6 |
| | 7530.00 | -12.5 | H | 3.0 | 35.7 | 1.0 | -47.2 | -13.0 | -34.2 |
| High Ch, 1913.5 | | | | | | | | | |
| | 3827.00 | -18.1 | V | 3.0 | 35.8 | 1.0 | -52.9 | -13.0 | -39.9 |
| | 5740.50 | -13.5 | V | 3.0 | 35.5 | 1.0 | -48.0 | -13.0 | -35.0 |
| | 7654.00 | -15.9 | V | 3.0 | 35.8 | 1.0 | -50.7 | -13.0 | -37.7 |
| | 3827.00 | -18.1 | H | 3.0 | 35.8 | 1.0 | -52.9 | -13.0 | -39.9 |
| | 5740.50 | -15.8 | H | 3.0 | 35.5 | 1.0 | -50.3 | -13.0 | -37.3 |
| | 7654.00 | -14.0 | H | 3.0 | 35.8 | 1.0 | -48.7 | -13.0 | -35.7 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_QPSK Band 25 Harmonics, 3MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 1851.5 | | | | | | | | | |
| Band | 3703.00 | -17.8 | V | 3.0 | 35.9 | 1.0 | -52.6 | -13.0 | -39.6 |
| | 5554.50 | -16.1 | V | 3.0 | 35.5 | 1.0 | -50.6 | -13.0 | -37.6 |
| LTE25 | 7406.00 | -15.3 | V | 3.0 | 35.7 | 1.0 | -50.0 | -13.0 | -37.0 |
| | 3703.00 | -19.0 | H | 3.0 | 35.9 | 1.0 | -53.9 | -13.0 | -40.9 |
| | 5554.50 | -15.5 | H | 3.0 | 35.5 | 1.0 | -49.9 | -13.0 | -36.9 |
| 3MHz | 7406.00 | -14.5 | H | 3.0 | 35.7 | 1.0 | -49.2 | -13.0 | -36.2 |
| Mid Ch, 1882.5 | | | | | | | | | |
| QPSK | 3765.00 | -14.8 | V | 3.0 | 35.8 | 1.0 | -49.6 | -13.0 | -36.6 |
| | 5647.50 | -15.0 | V | 3.0 | 35.5 | 1.0 | -49.5 | -13.0 | -36.5 |
| | 7530.00 | -12.5 | V | 3.0 | 35.7 | 1.0 | -47.2 | -13.0 | -34.2 |
| | 3765.00 | -16.6 | H | 3.0 | 35.8 | 1.0 | -51.5 | -13.0 | -38.5 |
| | 5647.50 | -14.7 | H | 3.0 | 35.5 | 1.0 | -49.1 | -13.0 | -36.1 |
| | 7530.00 | -12.2 | H | 3.0 | 35.7 | 1.0 | -46.9 | -13.0 | -33.9 |
| High Ch, 1913.5 | | | | | | | | | |
| | 3827.00 | -18.4 | V | 3.0 | 35.8 | 1.0 | -53.2 | -13.0 | -40.2 |
| | 5740.50 | -13.2 | V | 3.0 | 35.5 | 1.0 | -47.7 | -13.0 | -34.7 |
| | 7654.00 | -14.2 | V | 3.0 | 35.8 | 1.0 | -49.0 | -13.0 | -36.0 |
| | 3827.00 | -17.5 | H | 3.0 | 35.8 | 1.0 | -52.3 | -13.0 | -39.3 |
| | 5740.50 | -16.1 | H | 3.0 | 35.5 | 1.0 | -50.6 | -13.0 | -37.6 |
| | 7654.00 | -13.9 | H | 3.0 | 35.8 | 1.0 | -48.6 | -13.0 | -35.6 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_16QAM Band 25 Harmonics, 1.4MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| LTE25 | | | | | | | | | |
| 1.4MHz | | | | | | | | | |
| 16QAM | | | | | | | | | |
| Low Ch, 1850.7 | | | | | | | | | |
| 3701.40 | -16.6 | V | 3.0 | 35.9 | 1.0 | -51.5 | -13.0 | -38.5 | |
| 5552.10 | -11.7 | V | 3.0 | 35.5 | 1.0 | -46.2 | -13.0 | -33.2 | |
| 7402.80 | -13.2 | V | 3.0 | 35.7 | 1.0 | -47.9 | -13.0 | -34.9 | |
| 3701.40 | -16.1 | H | 3.0 | 35.9 | 1.0 | -50.9 | -13.0 | -37.9 | |
| 5552.10 | -13.3 | H | 3.0 | 35.5 | 1.0 | -47.8 | -13.0 | -34.8 | |
| 7402.80 | -12.3 | H | 3.0 | 35.7 | 1.0 | -47.0 | -13.0 | -34.0 | |
| Mid Ch, 1882.5 | | | | | | | | | |
| 3765.00 | -16.5 | V | 3.0 | 35.8 | 1.0 | -44.7 | -13.0 | -31.7 | |
| 5647.50 | -14.7 | V | 3.0 | 35.5 | 1.0 | -49.2 | -13.0 | -36.2 | |
| 7530.00 | -13.0 | V | 3.0 | 35.7 | 1.0 | -47.8 | -13.0 | -34.8 | |
| 3765.00 | -17.3 | H | 3.0 | 35.8 | 1.0 | -52.1 | -13.0 | -39.1 | |
| 5647.50 | -14.8 | H | 3.0 | 35.5 | 1.0 | -49.3 | -13.0 | -36.3 | |
| 7530.00 | -11.2 | H | 3.0 | 35.7 | 1.0 | -45.9 | -13.0 | -32.9 | |
| High Ch, 1914.3 | | | | | | | | | |
| 3828.60 | -15.6 | V | 3.0 | 35.8 | 1.0 | -50.4 | -13.0 | -37.4 | |
| 5742.90 | -9.4 | V | 3.0 | 35.5 | 1.0 | -43.9 | -13.0 | -30.9 | |
| 7657.20 | -13.0 | V | 3.0 | 35.8 | 1.0 | -47.7 | -13.0 | -34.7 | |
| 3828.60 | -16.5 | H | 3.0 | 35.8 | 1.0 | -51.3 | -13.0 | -38.3 | |
| 5742.90 | -12.9 | H | 3.0 | 35.5 | 1.0 | -47.4 | -13.0 | -34.4 | |
| 7657.20 | -12.0 | H | 3.0 | 35.8 | 1.0 | -46.7 | -13.0 | -33.7 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/14/2015 | | | | | | | |
| Test Engineer: | | O. Stoelting | | | | | | | |
| Configuration: | | X-pos EUT, Ac Charger, Headset | | | | | | | |
| Location: | | Chamber A | | | | | | | |
| Mode: | | LTE_QPSK Band 25 Harmonics, 1.4MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| LTE25 | | | | | | | | | |
| 1.4MHz | | | | | | | | | |
| QPSK | | | | | | | | | |
| Low Ch, 1850.7 | | | | | | | | | |
| 3701.40 | -15.5 | V | 3.0 | 35.9 | 1.0 | -50.4 | -13.0 | -37.4 | |
| 5552.10 | -12.4 | V | 3.0 | 35.5 | 1.0 | -46.9 | -13.0 | -33.9 | |
| 7402.80 | -13.0 | V | 3.0 | 35.7 | 1.0 | -47.7 | -13.0 | -34.7 | |
| 3701.40 | -16.0 | H | 3.0 | 35.9 | 1.0 | -50.9 | -13.0 | -37.9 | |
| 5552.10 | -13.7 | H | 3.0 | 35.5 | 1.0 | -48.2 | -13.0 | -35.2 | |
| 7402.80 | -12.4 | H | 3.0 | 35.7 | 1.0 | -47.1 | -13.0 | -34.1 | |
| Mid Ch, 1882.5 | | | | | | | | | |
| 3765.00 | -16.4 | V | 3.0 | 35.8 | 1.0 | -51.2 | -13.0 | -38.2 | |
| 5647.50 | -14.4 | V | 3.0 | 35.5 | 1.0 | -48.9 | -13.0 | -35.9 | |
| 7530.00 | -12.9 | V | 3.0 | 35.7 | 1.0 | -47.7 | -13.0 | -34.7 | |
| 3765.00 | -16.5 | H | 3.0 | 35.8 | 1.0 | -51.3 | -13.0 | -38.3 | |
| 5647.50 | -15.1 | H | 3.0 | 35.5 | 1.0 | -49.6 | -13.0 | -36.6 | |
| 7530.00 | -12.2 | H | 3.0 | 35.7 | 1.0 | -47.0 | -13.0 | -34.0 | |
| High Ch, 1914.3 | | | | | | | | | |
| 3828.60 | -15.4 | V | 3.0 | 35.8 | 1.0 | -50.2 | -13.0 | -37.2 | |
| 5742.90 | -9.4 | V | 3.0 | 35.5 | 1.0 | -43.9 | -13.0 | -30.9 | |
| 7657.20 | -12.9 | V | 3.0 | 35.8 | 1.0 | -47.6 | -13.0 | -34.6 | |
| 3828.60 | -16.7 | H | 3.0 | 35.8 | 1.0 | -51.5 | -13.0 | -38.5 | |
| 5742.90 | -11.6 | H | 3.0 | 35.5 | 1.0 | -46.1 | -13.0 | -33.1 | |
| 7657.20 | -10.9 | H | 3.0 | 35.8 | 1.0 | -45.7 | -13.0 | -32.7 | |

LTE Band 26

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_16QAM Band 26 Harmonics, 15MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Mid Ch, 831.5 | | | | | | | | | |
| 1663.00 | -26.6 | V | 3.0 | 37.0 | 1.0 | -62.6 | -13.0 | -49.6 | |
| 2494.50 | -23.7 | V | 3.0 | 36.4 | 1.0 | -59.1 | -13.0 | -46.1 | |
| LTE26 | | | | | | | | | |
| 3326.00 | -21.1 | V | 3.0 | 36.2 | 1.0 | -56.3 | -13.0 | -43.3 | |
| 1663.00 | -27.1 | H | 3.0 | 37.0 | 1.0 | -63.1 | -13.0 | -50.1 | |
| 15MHz | | | | | | | | | |
| 2494.50 | -25.0 | H | 3.0 | 36.4 | 1.0 | -60.4 | -13.0 | -47.4 | |
| 3326.00 | -21.5 | H | 3.0 | 36.2 | 1.0 | -56.7 | -13.0 | -43.7 | |
| 16QAM | | | | | | | | | |
| Mid Ch, 836.5 | | | | | | | | | |
| 1673.00 | -24.5 | V | 3.0 | 37.0 | 1.0 | -60.5 | -13.0 | -47.5 | |
| 2509.50 | -23.4 | V | 3.0 | 36.4 | 1.0 | -58.8 | -13.0 | -45.8 | |
| 3346.00 | -21.6 | V | 3.0 | 36.1 | 1.0 | -56.8 | -13.0 | -43.8 | |
| 1673.00 | -27.1 | H | 3.0 | 37.0 | 1.0 | -63.1 | -13.0 | -50.1 | |
| 2509.50 | -25.2 | H | 3.0 | 36.4 | 1.0 | -60.7 | -13.0 | -47.7 | |
| 3346.00 | -24.2 | H | 3.0 | 36.1 | 1.0 | -59.4 | -13.0 | -46.4 | |
| High Ch, 841.5 | | | | | | | | | |
| 1683.00 | -26.7 | V | 3.0 | 37.0 | 1.0 | -62.7 | -13.0 | -49.7 | |
| 2524.50 | -23.0 | V | 3.0 | 36.4 | 1.0 | -58.4 | -13.0 | -45.4 | |
| 3366.00 | -19.4 | V | 3.0 | 36.1 | 1.0 | -54.5 | -13.0 | -41.5 | |
| 1683.00 | -26.9 | H | 3.0 | 37.0 | 1.0 | -62.9 | -13.0 | -49.9 | |
| 2524.50 | -24.9 | H | 3.0 | 36.4 | 1.0 | -60.3 | -13.0 | -47.3 | |
| 3366.00 | -21.5 | H | 3.0 | 36.1 | 1.0 | -56.6 | -13.0 | -43.6 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_QPSK Band 26 Harmonics, 15MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| LTE26 | | | | | | | | | |
| 15MHz | | | | | | | | | |
| QPSK | | | | | | | | | |
| Mid Ch, 831.5 | | | | | | | | | |
| 1663.00 | -26.5 | V | 3.0 | 37.0 | 1.0 | -62.5 | -13.0 | -49.5 | |
| 2494.50 | -23.6 | V | 3.0 | 36.4 | 1.0 | -59.0 | -13.0 | -46.0 | |
| 3326.00 | -21.0 | V | 3.0 | 36.2 | 1.0 | -56.2 | -13.0 | -43.2 | |
| 1663.00 | -27.0 | H | 3.0 | 37.0 | 1.0 | -63.0 | -13.0 | -50.0 | |
| 2494.50 | -24.9 | H | 3.0 | 36.4 | 1.0 | -60.3 | -13.0 | -47.3 | |
| 3326.00 | -21.4 | H | 3.0 | 36.2 | 1.0 | -56.5 | -13.0 | -43.5 | |
| Mid Ch, 836.5 | | | | | | | | | |
| 1673.00 | -24.4 | V | 3.0 | 37.0 | 1.0 | -60.4 | -13.0 | -47.4 | |
| 2509.50 | -23.3 | V | 3.0 | 36.4 | 1.0 | -58.7 | -13.0 | -45.7 | |
| 3346.00 | -21.5 | V | 3.0 | 36.1 | 1.0 | -56.7 | -13.0 | -43.7 | |
| 1673.00 | -27.0 | H | 3.0 | 37.0 | 1.0 | -63.0 | -13.0 | -50.0 | |
| 2509.50 | -25.1 | H | 3.0 | 36.4 | 1.0 | -60.6 | -13.0 | -47.6 | |
| 3346.00 | -24.1 | H | 3.0 | 36.1 | 1.0 | -59.3 | -13.0 | -46.3 | |
| High Ch, 841.5 | | | | | | | | | |
| 1683.00 | -26.6 | V | 3.0 | 37.0 | 1.0 | -62.6 | -13.0 | -49.6 | |
| 2524.50 | -22.9 | V | 3.0 | 36.4 | 1.0 | -58.3 | -13.0 | -45.3 | |
| 3366.00 | -19.3 | V | 3.0 | 36.1 | 1.0 | -54.4 | -13.0 | -41.4 | |
| 1683.00 | -26.8 | H | 3.0 | 37.0 | 1.0 | -62.8 | -13.0 | -49.8 | |
| 2524.50 | -24.8 | H | 3.0 | 36.4 | 1.0 | -60.2 | -13.0 | -47.2 | |
| 3366.00 | -21.4 | H | 3.0 | 36.1 | 1.0 | -56.5 | -13.0 | -43.5 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_16QAM Band 26 Harmonics, 10MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 819 | | | | | | | | | |
| Band | 1638.00 | -25.0 | V | 3.0 | 37.0 | 1.0 | -61.0 | -13.0 | -48.0 |
| | 2457.00 | -23.4 | V | 3.0 | 36.4 | 1.0 | -58.9 | -13.0 | -45.9 |
| LTE26 | 3276.00 | -21.7 | V | 3.0 | 36.2 | 1.0 | -56.8 | -13.0 | -43.8 |
| | 1638.00 | -27.1 | H | 3.0 | 37.0 | 1.0 | -63.1 | -13.0 | -50.1 |
| | 2457.00 | -25.8 | H | 3.0 | 36.4 | 1.0 | -61.2 | -13.0 | -48.2 |
| 10MHz | 3276.00 | -21.9 | H | 3.0 | 36.2 | 1.0 | -57.1 | -13.0 | -44.1 |
| Mid Ch, 831.5 | | | | | | | | | |
| 16QAM | 1663.00 | -24.1 | V | 3.0 | 37.0 | 1.0 | -60.2 | -13.0 | -47.2 |
| | 2494.50 | -23.8 | V | 3.0 | 36.4 | 1.0 | -59.2 | -13.0 | -46.2 |
| | 3326.00 | -20.8 | V | 3.0 | 36.1 | 1.0 | -55.9 | -13.0 | -42.9 |
| | 1663.00 | -26.5 | H | 3.0 | 37.0 | 1.0 | -62.5 | -13.0 | -49.5 |
| | 2494.50 | -24.9 | H | 3.0 | 36.4 | 1.0 | -60.3 | -13.0 | -47.3 |
| | 3326.00 | -22.0 | H | 3.0 | 36.1 | 1.0 | -57.1 | -13.0 | -44.1 |
| High Ch, 844 | | | | | | | | | |
| | 1688.00 | -26.7 | V | 3.0 | 37.0 | 1.0 | -62.7 | -13.0 | -49.7 |
| | 2532.00 | -23.3 | V | 3.0 | 36.4 | 1.0 | -58.7 | -13.0 | -45.7 |
| | 3376.00 | -21.6 | V | 3.0 | 36.1 | 1.0 | -56.7 | -13.0 | -43.7 |
| | 1688.00 | -26.8 | H | 3.0 | 37.0 | 1.0 | -62.7 | -13.0 | -49.7 |
| | 2532.00 | -24.1 | H | 3.0 | 36.4 | 1.0 | -59.5 | -13.0 | -46.5 |
| | 3376.00 | -21.0 | H | 3.0 | 36.1 | 1.0 | -56.1 | -13.0 | -43.1 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_QPSK Band 26 Harmonics, 10MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Low Ch, 819 | | | | | | | | | |
| 1638.00 | -24.9 | V | 3.0 | 37.0 | 1.0 | -60.9 | -13.0 | -47.9 | |
| 2457.00 | -23.3 | V | 3.0 | 36.4 | 1.0 | -58.7 | -13.0 | -45.7 | |
| LTE26 | | | | | | | | | |
| 3276.00 | -21.5 | V | 3.0 | 36.2 | 1.0 | -56.7 | -13.0 | -43.7 | |
| 1638.00 | -27.0 | H | 3.0 | 37.0 | 1.0 | -63.0 | -13.0 | -50.0 | |
| 2457.00 | -25.7 | H | 3.0 | 36.4 | 1.0 | -61.1 | -13.0 | -48.1 | |
| 10MHz | | | | | | | | | |
| 3276.00 | -21.8 | H | 3.0 | 36.2 | 1.0 | -56.9 | -13.0 | -43.9 | |
| Mid Ch, 831.5 | | | | | | | | | |
| 1663.00 | -24.0 | V | 3.0 | 37.0 | 1.0 | -60.0 | -13.0 | -47.0 | |
| 2494.50 | -23.7 | V | 3.0 | 36.4 | 1.0 | -59.1 | -13.0 | -46.1 | |
| 3326.00 | -20.6 | V | 3.0 | 36.1 | 1.0 | -55.8 | -13.0 | -42.8 | |
| 1663.00 | -26.4 | H | 3.0 | 37.0 | 1.0 | -62.4 | -13.0 | -49.4 | |
| 2494.50 | -24.7 | H | 3.0 | 36.4 | 1.0 | -60.2 | -13.0 | -47.2 | |
| 3326.00 | -21.9 | H | 3.0 | 36.1 | 1.0 | -57.0 | -13.0 | -44.0 | |
| High Ch, 844 | | | | | | | | | |
| 1688.00 | -26.6 | V | 3.0 | 37.0 | 1.0 | -62.6 | -13.0 | -49.6 | |
| 2532.00 | -23.2 | V | 3.0 | 36.4 | 1.0 | -58.6 | -13.0 | -45.6 | |
| 3376.00 | -21.5 | V | 3.0 | 36.1 | 1.0 | -56.6 | -13.0 | -43.6 | |
| 1688.00 | -26.6 | H | 3.0 | 37.0 | 1.0 | -62.6 | -13.0 | -49.6 | |
| 2532.00 | -24.0 | H | 3.0 | 36.4 | 1.0 | -59.4 | -13.0 | -46.4 | |
| 3376.00 | -20.8 | H | 3.0 | 36.1 | 1.0 | -55.9 | -13.0 | -42.9 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_16QAM Band 26 Harmonics, 5MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 816.5 | | | | | | | | | |
| 1633.00 | -28.6 | V | 3.0 | 37.0 | 1.0 | -64.6 | -13.0 | -51.6 | |
| 2449.50 | -23.3 | V | 3.0 | 36.4 | 1.0 | -58.7 | -13.0 | -45.7 | |
| LTE26 | | | | | | | | | |
| 3266.00 | -22.1 | V | 3.0 | 36.2 | 1.0 | -57.3 | -13.0 | -44.3 | |
| 1633.00 | -26.4 | H | 3.0 | 37.0 | 1.0 | -62.4 | -13.0 | -49.4 | |
| 2449.50 | -25.3 | H | 3.0 | 36.4 | 1.0 | -60.8 | -13.0 | -47.8 | |
| 5MHz | | | | | | | | | |
| 3266.00 | -20.8 | H | 3.0 | 36.2 | 1.0 | -56.0 | -13.0 | -43.0 | |
| Mid Ch, 831.5 | | | | | | | | | |
| 1663.00 | -23.8 | V | 3.0 | 37.0 | 1.0 | -59.8 | -13.0 | -46.8 | |
| 2494.50 | -23.1 | V | 3.0 | 36.4 | 1.0 | -58.5 | -13.0 | -45.5 | |
| 3326.00 | -22.3 | V | 3.0 | 36.1 | 1.0 | -57.4 | -13.0 | -44.4 | |
| 1663.00 | -25.7 | H | 3.0 | 37.0 | 1.0 | -61.7 | -13.0 | -48.7 | |
| 2494.50 | -25.6 | H | 3.0 | 36.4 | 1.0 | -61.1 | -13.0 | -48.1 | |
| 3326.00 | -21.6 | H | 3.0 | 36.1 | 1.0 | -56.8 | -13.0 | -43.8 | |
| High Ch, 846.5 | | | | | | | | | |
| 1693.00 | -27.8 | V | 3.0 | 37.0 | 1.0 | -63.8 | -13.0 | -50.8 | |
| 2539.50 | -23.9 | V | 3.0 | 36.4 | 1.0 | -59.3 | -13.0 | -46.3 | |
| 3386.00 | -21.4 | V | 3.0 | 36.1 | 1.0 | -56.5 | -13.0 | -43.5 | |
| 1693.00 | -27.3 | H | 3.0 | 37.0 | 1.0 | -63.3 | -13.0 | -50.3 | |
| 2539.50 | -25.0 | H | 3.0 | 36.4 | 1.0 | -60.4 | -13.0 | -47.4 | |
| 3386.00 | -21.8 | H | 3.0 | 36.1 | 1.0 | -56.9 | -13.0 | -43.9 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | | | |
|--|----------------|--|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|-------|--|
| Company: | | LG Electronics | | | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | | | | |
| Location: | | Chamber C | | | | | | | | | | |
| Mode: | | LTE_QPSK Band 26 Harmonics, 5MHz Bandwidth | | | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes | | |
| Band | Low Ch, 816.5 | | | | | | | | | | | |
| | | 1633.00 | -28.4 | V | 3.0 | 37.0 | 1.0 | -64.5 | -13.0 | -51.5 | | |
| | | 2449.50 | -23.1 | V | 3.0 | 36.4 | 1.0 | -58.6 | -13.0 | -45.6 | | |
| | LTE26 | | 3266.00 | -22.0 | V | 3.0 | 36.2 | 1.0 | -57.1 | -13.0 | -44.1 | |
| | | | 1633.00 | -26.2 | H | 3.0 | 37.0 | 1.0 | -62.2 | -13.0 | -49.2 | |
| | 5MHz | | 2449.50 | -25.2 | H | 3.0 | 36.4 | 1.0 | -60.6 | -13.0 | -47.6 | |
| | | 3266.00 | -20.6 | H | 3.0 | 36.2 | 1.0 | -55.8 | -13.0 | -42.8 | | |
| QPSK | Mid Ch, 831.5 | | | | | | | | | | | |
| | | 1663.00 | -23.7 | V | 3.0 | 37.0 | 1.0 | -59.7 | -13.0 | -46.7 | | |
| | | 2494.50 | -22.9 | V | 3.0 | 36.4 | 1.0 | -58.3 | -13.0 | -45.3 | | |
| | | 3326.00 | -22.1 | V | 3.0 | 36.1 | 1.0 | -57.2 | -13.0 | -44.2 | | |
| | | 1663.00 | -25.5 | H | 3.0 | 37.0 | 1.0 | -61.6 | -13.0 | -48.6 | | |
| | | 2494.50 | -25.5 | H | 3.0 | 36.4 | 1.0 | -60.9 | -13.0 | -47.9 | | |
| | 3326.00 | -21.5 | H | 3.0 | 36.1 | 1.0 | -56.6 | -13.0 | -43.6 | | | |
| | High Ch, 846.5 | | | | | | | | | | | |
| | 1693.00 | -27.6 | V | 3.0 | 37.0 | 1.0 | -63.6 | -13.0 | -50.6 | | | |
| | 2539.50 | -23.7 | V | 3.0 | 36.4 | 1.0 | -59.1 | -13.0 | -46.1 | | | |
| | 3386.00 | -21.3 | V | 3.0 | 36.1 | 1.0 | -56.3 | -13.0 | -43.3 | | | |
| | 1693.00 | -27.1 | H | 3.0 | 37.0 | 1.0 | -63.1 | -13.0 | -50.1 | | | |
| | 2539.50 | -24.8 | H | 3.0 | 36.4 | 1.0 | -60.2 | -13.0 | -47.2 | | | |
| | 3386.00 | -21.6 | H | 3.0 | 36.1 | 1.0 | -56.7 | -13.0 | -43.7 | | | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_16QAM Band 26 Harmonics, 3MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Low Ch, 815.5 | | | | | | | | | |
| 1631.00 | -22.9 | V | 3.0 | 37.0 | 1.0 | -58.9 | -13.0 | -45.9 | |
| 2446.50 | -23.6 | V | 3.0 | 36.4 | 1.0 | -59.0 | -13.0 | -46.0 | |
| LTE26 | | | | | | | | | |
| 3262.00 | -22.1 | V | 3.0 | 36.2 | 1.0 | -57.2 | -13.0 | -44.2 | |
| 1631.00 | -28.2 | H | 3.0 | 37.0 | 1.0 | -64.3 | -13.0 | -51.3 | |
| 2446.50 | -25.3 | H | 3.0 | 36.4 | 1.0 | -60.7 | -13.0 | -47.7 | |
| 3MHz | | | | | | | | | |
| 3262.00 | -22.2 | H | 3.0 | 36.2 | 1.0 | -57.4 | -13.0 | -44.4 | |
| Mid Ch, 831.5 | | | | | | | | | |
| 1663.00 | -28.0 | V | 3.0 | 37.0 | 1.0 | -64.0 | -13.0 | -51.0 | |
| 2494.50 | -23.6 | V | 3.0 | 36.4 | 1.0 | -59.0 | -13.0 | -46.0 | |
| 3326.00 | -21.7 | V | 3.0 | 36.1 | 1.0 | -56.9 | -13.0 | -43.9 | |
| 1663.00 | -28.3 | H | 3.0 | 37.0 | 1.0 | -64.3 | -13.0 | -51.3 | |
| 2494.50 | -24.9 | H | 3.0 | 36.4 | 1.0 | -60.4 | -13.0 | -47.4 | |
| 3326.00 | -21.5 | H | 3.0 | 36.1 | 1.0 | -56.6 | -13.0 | -43.6 | |
| High Ch, 847.5 | | | | | | | | | |
| 1695.00 | -26.0 | V | 3.0 | 37.0 | 1.0 | -61.9 | -13.0 | -48.9 | |
| 2542.50 | -24.0 | V | 3.0 | 36.4 | 1.0 | -59.5 | -13.0 | -46.5 | |
| 3390.00 | -21.5 | V | 3.0 | 36.1 | 1.0 | -56.6 | -13.0 | -43.6 | |
| 1695.00 | -27.1 | H | 3.0 | 37.0 | 1.0 | -63.1 | -13.0 | -50.1 | |
| 2542.50 | -25.1 | H | 3.0 | 36.4 | 1.0 | -60.5 | -13.0 | -47.5 | |
| 3390.00 | -21.4 | H | 3.0 | 36.1 | 1.0 | -56.5 | -13.0 | -43.5 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|--|----------------|--|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|
| Company: | | LG Electronics | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | | |
| Location: | | Chamber C | | | | | | | | |
| Mode: | | LTE_QPSK Band 26 Harmonics, 3MHz Bandwidth | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | Low Ch, 815.5 | | | | | | | | | |
| | 1631.00 | -22.8 | V | 3.0 | 37.0 | 1.0 | -58.8 | -13.0 | -45.8 | |
| LTE26 | 2446.50 | -23.5 | V | 3.0 | 36.4 | 1.0 | -58.9 | -13.0 | -45.9 | |
| | 3262.00 | -21.9 | V | 3.0 | 36.2 | 1.0 | -57.1 | -13.0 | -44.1 | |
| 3MHz | 1631.00 | -28.1 | H | 3.0 | 37.0 | 1.0 | -64.1 | -13.0 | -51.1 | |
| | 2446.50 | -25.2 | H | 3.0 | 36.4 | 1.0 | -60.6 | -13.0 | -47.6 | |
| QPSK | 3262.00 | -22.1 | H | 3.0 | 36.2 | 1.0 | -57.3 | -13.0 | -44.3 | |
| | Mid Ch, 831.5 | | | | | | | | | |
| | 1663.00 | -27.9 | V | 3.0 | 37.0 | 1.0 | -63.9 | -13.0 | -50.9 | |
| | 2494.50 | -23.5 | V | 3.0 | 36.4 | 1.0 | -58.9 | -13.0 | -45.9 | |
| | 3326.00 | -21.6 | V | 3.0 | 36.1 | 1.0 | -56.7 | -13.0 | -43.7 | |
| | 1663.00 | -28.2 | H | 3.0 | 37.0 | 1.0 | -64.2 | -13.0 | -51.2 | |
| | 2494.50 | -24.8 | H | 3.0 | 36.4 | 1.0 | -60.2 | -13.0 | -47.2 | |
| | 3326.00 | -21.4 | H | 3.0 | 36.1 | 1.0 | -56.5 | -13.0 | -43.5 | |
| | High Ch, 847.5 | | | | | | | | | |
| | 1695.00 | -25.8 | V | 3.0 | 37.0 | 1.0 | -61.8 | -13.0 | -48.8 | |
| | 2542.50 | -23.9 | V | 3.0 | 36.4 | 1.0 | -59.3 | -13.0 | -46.3 | |
| | 3390.00 | -21.4 | V | 3.0 | 36.1 | 1.0 | -56.5 | -13.0 | -43.5 | |
| | 1695.00 | -27.0 | H | 3.0 | 37.0 | 1.0 | -63.0 | -13.0 | -50.0 | |
| | 2542.50 | -25.0 | H | 3.0 | 36.4 | 1.0 | -60.4 | -13.0 | -47.4 | |
| | 3390.00 | -21.3 | H | 3.0 | 36.1 | 1.0 | -56.4 | -13.0 | -43.4 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_16QAM Band 26 Harmonics, 1.4MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| LTE26 | | | | | | | | | |
| 1.4MHz | | | | | | | | | |
| 16QAM | | | | | | | | | |
| Low Ch, 814.7 | | | | | | | | | |
| 1629.40 | -23.1 | V | 3.0 | 37.1 | 1.0 | -59.1 | -13.0 | -46.1 | |
| 2444.10 | -24.1 | V | 3.0 | 36.4 | 1.0 | -59.6 | -13.0 | -46.6 | |
| 3258.80 | -21.7 | V | 3.0 | 36.2 | 1.0 | -56.9 | -13.0 | -43.9 | |
| 1629.40 | -25.0 | H | 3.0 | 37.1 | 1.0 | -61.0 | -13.0 | -48.0 | |
| 2444.10 | -25.7 | H | 3.0 | 36.4 | 1.0 | -61.1 | -13.0 | -48.1 | |
| 3258.80 | -21.8 | H | 3.0 | 36.2 | 1.0 | -57.0 | -13.0 | -44.0 | |
| Mid Ch, 831.5 | | | | | | | | | |
| 1663.00 | -25.7 | V | 3.0 | 37.0 | 1.0 | -61.7 | -13.0 | -48.7 | |
| 2494.50 | -23.6 | V | 3.0 | 36.4 | 1.0 | -59.0 | -13.0 | -46.0 | |
| 3326.00 | -21.5 | V | 3.0 | 36.1 | 1.0 | -56.6 | -13.0 | -43.6 | |
| 1663.00 | -26.1 | H | 3.0 | 37.0 | 1.0 | -62.1 | -13.0 | -49.1 | |
| 2494.50 | -24.9 | H | 3.0 | 36.4 | 1.0 | -60.4 | -13.0 | -47.4 | |
| 3326.00 | -21.6 | H | 3.0 | 36.1 | 1.0 | -56.7 | -13.0 | -43.7 | |
| High Ch, 848.3 | | | | | | | | | |
| 1696.60 | -27.0 | V | 3.0 | 37.0 | 1.0 | -62.9 | -13.0 | -49.9 | |
| 2544.90 | -24.6 | V | 3.0 | 36.4 | 1.0 | -60.0 | -13.0 | -47.0 | |
| 3393.20 | -21.9 | V | 3.0 | 36.1 | 1.0 | -57.0 | -13.0 | -44.0 | |
| 1696.60 | -26.6 | H | 3.0 | 37.0 | 1.0 | -62.6 | -13.0 | -49.6 | |
| 2544.90 | -25.5 | H | 3.0 | 36.4 | 1.0 | -60.9 | -13.0 | -47.9 | |
| 3393.20 | -22.1 | H | 3.0 | 36.1 | 1.0 | -57.2 | -13.0 | -44.2 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/19/2015 | | | | | | | |
| Test Engineer: | | S.Tran | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_QPSK Band 26 Harmonics, 1.4MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 814.7 | | | | | | | | | |
| 1629.40 | -22.9 | V | 3.0 | 37.1 | 1.0 | -58.9 | -13.0 | -45.9 | |
| 2444.10 | -23.9 | V | 3.0 | 36.4 | 1.0 | -59.4 | -13.0 | -46.4 | |
| 3258.80 | -21.5 | V | 3.0 | 36.2 | 1.0 | -56.7 | -13.0 | -43.7 | |
| 1629.40 | -24.8 | H | 3.0 | 37.1 | 1.0 | -60.8 | -13.0 | -47.8 | |
| 2444.10 | -25.4 | H | 3.0 | 36.4 | 1.0 | -60.9 | -13.0 | -47.9 | |
| 3258.80 | -21.6 | H | 3.0 | 36.2 | 1.0 | -56.8 | -13.0 | -43.8 | |
| Mid Ch, 831.5 | | | | | | | | | |
| 1663.00 | -25.5 | V | 3.0 | 37.0 | 1.0 | -61.5 | -13.0 | -48.5 | |
| 2494.50 | -23.4 | V | 3.0 | 36.4 | 1.0 | -58.8 | -13.0 | -45.8 | |
| 3326.00 | -21.3 | V | 3.0 | 36.1 | 1.0 | -56.4 | -13.0 | -43.4 | |
| 1663.00 | -25.9 | H | 3.0 | 37.0 | 1.0 | -61.9 | -13.0 | -48.9 | |
| 2494.50 | -24.7 | H | 3.0 | 36.4 | 1.0 | -60.1 | -13.0 | -47.1 | |
| 3326.00 | -21.4 | H | 3.0 | 36.1 | 1.0 | -56.5 | -13.0 | -43.5 | |
| High Ch, 848.3 | | | | | | | | | |
| 1696.60 | -26.8 | V | 3.0 | 37.0 | 1.0 | -62.7 | -13.0 | -49.7 | |
| 2544.90 | -24.3 | V | 3.0 | 36.4 | 1.0 | -59.8 | -13.0 | -46.8 | |
| 3393.20 | -21.7 | V | 3.0 | 36.1 | 1.0 | -56.8 | -13.0 | -43.8 | |
| 1696.60 | -26.4 | H | 3.0 | 37.0 | 1.0 | -62.4 | -13.0 | -49.4 | |
| 2544.90 | -25.3 | H | 3.0 | 36.4 | 1.0 | -60.7 | -13.0 | -47.7 | |
| 3393.20 | -21.9 | H | 3.0 | 36.1 | 1.0 | -57.0 | -13.0 | -44.0 | |

LTE Band 41

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/11/2015 | | | | | | | |
| Test Engineer: | | R.Alegre | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_16QAM Band 41 Harmonics, 20MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 2506 | | | | | | | | | |
| 5012.00 | -18.4 | V | 3.0 | 35.5 | 1.0 | -52.9 | -25.0 | -27.9 | |
| 7518.00 | -13.3 | V | 3.0 | 35.7 | 1.0 | -48.1 | -25.0 | -23.1 | |
| 10024.00 | -12.1 | V | 3.0 | 36.0 | 1.0 | -47.1 | -25.0 | -22.1 | |
| 5012.00 | -18.0 | H | 3.0 | 35.5 | 1.0 | -52.5 | -25.0 | -27.5 | |
| 7518.00 | -12.9 | H | 3.0 | 35.7 | 1.0 | -47.7 | -25.0 | -22.7 | |
| 10024.00 | -10.5 | H | 3.0 | 36.0 | 1.0 | -45.5 | -25.0 | -20.5 | |
| Mid Ch, 2593 | | | | | | | | | |
| 5186.00 | -18.1 | V | 3.0 | 35.4 | 1.0 | -52.5 | -25.0 | -27.5 | |
| 7779.00 | -12.9 | V | 3.0 | 35.8 | 1.0 | -47.7 | -25.0 | -22.7 | |
| 10372.00 | -11.1 | V | 3.0 | 35.8 | 1.0 | -46.0 | -25.0 | -21.0 | |
| 5186.00 | -18.0 | H | 3.0 | 35.4 | 1.0 | -52.4 | -25.0 | -27.4 | |
| 7779.00 | -12.1 | H | 3.0 | 35.8 | 1.0 | -46.9 | -25.0 | -21.9 | |
| 10372.00 | -10.4 | H | 3.0 | 35.8 | 1.0 | -45.3 | -25.0 | -20.3 | |
| High Ch, 2680 | | | | | | | | | |
| 5360.00 | -17.9 | V | 3.0 | 35.4 | 1.0 | -52.3 | -25.0 | -27.3 | |
| 8040.00 | -12.7 | V | 3.0 | 35.8 | 1.0 | -47.5 | -25.0 | -22.5 | |
| 10720.00 | -9.8 | V | 3.0 | 35.7 | 1.0 | -44.5 | -25.0 | -19.5 | |
| 5360.00 | -16.2 | H | 3.0 | 35.4 | 1.0 | -50.6 | -25.0 | -25.6 | |
| 8040.00 | -12.1 | H | 3.0 | 35.8 | 1.0 | -46.9 | -25.0 | -21.9 | |
| 10720.00 | -10.7 | H | 3.0 | 35.7 | 1.0 | -45.3 | -25.0 | -20.3 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/11/2015 | | | | | | | |
| Test Engineer: | | R.Alegre | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_QPSK Band 41 Harmonics, 20MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 2506 | | | | | | | | | |
| Band | 5012.00 | -18.1 | V | 3.0 | 35.5 | 1.0 | -52.6 | -25.0 | -27.6 |
| | 7518.00 | -13.0 | V | 3.0 | 35.7 | 1.0 | -47.8 | -25.0 | -22.8 |
| LTE41 | 10024.00 | -11.9 | V | 3.0 | 36.0 | 1.0 | -46.9 | -25.0 | -21.9 |
| | 5012.00 | -18.0 | H | 3.0 | 35.5 | 1.0 | -52.4 | -25.0 | -27.4 |
| | 7518.00 | -13.0 | H | 3.0 | 35.7 | 1.0 | -47.8 | -25.0 | -22.8 |
| 20MHz | 10024.00 | -10.3 | H | 3.0 | 36.0 | 1.0 | -45.3 | -25.0 | -20.3 |
| Mid Ch, 2593 | | | | | | | | | |
| QPSK | 5186.00 | -17.8 | V | 3.0 | 35.4 | 1.0 | -52.2 | -25.0 | -27.2 |
| | 7779.00 | -12.8 | V | 3.0 | 35.8 | 1.0 | -47.5 | -25.0 | -22.5 |
| | 10372.00 | -10.9 | V | 3.0 | 35.8 | 1.0 | -45.8 | -25.0 | -20.8 |
| | 5186.00 | -17.5 | H | 3.0 | 35.4 | 1.0 | -51.9 | -25.0 | -26.9 |
| | 7779.00 | -12.1 | H | 3.0 | 35.8 | 1.0 | -46.8 | -25.0 | -21.8 |
| | 10372.00 | -10.2 | H | 3.0 | 35.8 | 1.0 | -45.0 | -25.0 | -20.0 |
| High Ch, 2680 | | | | | | | | | |
| | 5360.00 | -17.6 | V | 3.0 | 35.4 | 1.0 | -52.0 | -25.0 | -27.0 |
| | 8040.00 | -12.7 | V | 3.0 | 35.8 | 1.0 | -47.5 | -25.0 | -22.5 |
| | 10720.00 | -9.6 | V | 3.0 | 35.7 | 1.0 | -44.2 | -25.0 | -19.2 |
| | 5360.00 | -16.2 | H | 3.0 | 35.4 | 1.0 | -50.7 | -25.0 | -25.7 |
| | 8040.00 | -11.8 | H | 3.0 | 35.8 | 1.0 | -46.6 | -25.0 | -21.6 |
| | 10720.00 | -10.6 | H | 3.0 | 35.7 | 1.0 | -45.3 | -25.0 | -20.3 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|--|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/11/2015 | | | | | | | |
| Test Engineer: | | R.Alegre | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_16QAM Band 41 Harmonics, 15MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Low Ch, 2503.5 | | | | | | | | | |
| 5007.00 | -18.6 | V | 3.0 | 35.5 | 1.0 | -53.0 | -25.0 | -28.0 | |
| 7510.50 | -14.3 | V | 3.0 | 35.7 | 1.0 | -49.1 | -25.0 | -24.1 | |
| LTE41 | | | | | | | | | |
| 10014.00 | -11.9 | V | 3.0 | 36.0 | 1.0 | -47.0 | -25.0 | -22.0 | |
| 5007.00 | -17.4 | H | 3.0 | 35.5 | 1.0 | -51.9 | -25.0 | -26.9 | |
| 7510.50 | -12.5 | H | 3.0 | 35.7 | 1.0 | -47.2 | -25.0 | -22.2 | |
| 15MHz | | | | | | | | | |
| 10014.00 | -11.4 | H | 3.0 | 36.0 | 1.0 | -46.5 | -25.0 | -21.5 | |
| Mid Ch, 2593 | | | | | | | | | |
| 5186.00 | -18.1 | V | 3.0 | 35.4 | 1.0 | -52.5 | -25.0 | -27.5 | |
| 7779.00 | -13.0 | V | 3.0 | 35.8 | 1.0 | -47.8 | -25.0 | -22.8 | |
| 10372.00 | -11.7 | V | 3.0 | 35.8 | 1.0 | -46.6 | -25.0 | -21.6 | |
| 5186.00 | -17.7 | H | 3.0 | 35.4 | 1.0 | -52.1 | -25.0 | -27.1 | |
| 7779.00 | -11.9 | H | 3.0 | 35.8 | 1.0 | -46.7 | -25.0 | -21.7 | |
| 10372.00 | -10.4 | H | 3.0 | 35.8 | 1.0 | -45.2 | -25.0 | -20.2 | |
| High Ch, 2682.5 | | | | | | | | | |
| 5365.00 | -17.9 | V | 3.0 | 35.4 | 1.0 | -52.3 | -25.0 | -27.3 | |
| 8047.50 | -12.9 | V | 3.0 | 35.8 | 1.0 | -47.7 | -25.0 | -22.7 | |
| 10730.00 | -10.9 | V | 3.0 | 35.7 | 1.0 | -45.5 | -25.0 | -20.5 | |
| 5365.00 | -17.5 | H | 3.0 | 35.4 | 1.0 | -51.9 | -25.0 | -26.9 | |
| 8047.50 | -11.8 | H | 3.0 | 35.8 | 1.0 | -46.6 | -25.0 | -21.6 | |
| 10730.00 | -11.5 | H | 3.0 | 35.7 | 1.0 | -46.2 | -25.0 | -21.2 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/11/2015 | | | | | | | |
| Test Engineer: | | R.Alegre | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_QPSK Band 41 Harmonics, 15MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Low Ch, 2503.5 | | | | | | | | | |
| 5007.00 | -17.3 | V | 3.0 | 35.5 | 1.0 | -51.8 | -25.0 | -26.8 | |
| 7510.50 | -14.1 | V | 3.0 | 35.7 | 1.0 | -48.9 | -25.0 | -23.9 | |
| LTE41 | | | | | | | | | |
| 10014.00 | -11.4 | V | 3.0 | 36.0 | 1.0 | -46.4 | -25.0 | -21.4 | |
| 5007.00 | -17.3 | H | 3.0 | 35.5 | 1.0 | -51.8 | -25.0 | -26.8 | |
| 7510.50 | -12.6 | H | 3.0 | 35.7 | 1.0 | -47.4 | -25.0 | -22.4 | |
| 15MHz | | | | | | | | | |
| 10014.00 | -10.4 | H | 3.0 | 36.0 | 1.0 | -45.4 | -25.0 | -20.4 | |
| Mid Ch, 2593 | | | | | | | | | |
| 5186.00 | -17.8 | V | 3.0 | 35.4 | 1.0 | -52.3 | -25.0 | -27.3 | |
| 7779.00 | -12.8 | V | 3.0 | 35.8 | 1.0 | -47.6 | -25.0 | -22.6 | |
| 10372.00 | -11.1 | V | 3.0 | 35.8 | 1.0 | -45.9 | -25.0 | -20.9 | |
| 5186.00 | -17.7 | H | 3.0 | 35.4 | 1.0 | -52.1 | -25.0 | -27.1 | |
| 7779.00 | -12.8 | H | 3.0 | 35.8 | 1.0 | -47.6 | -25.0 | -22.6 | |
| 10372.00 | -9.1 | H | 3.0 | 35.8 | 1.0 | -44.0 | -25.0 | -19.0 | |
| High Ch, 2682.5 | | | | | | | | | |
| 5365.00 | -17.6 | V | 3.0 | 35.4 | 1.0 | -52.0 | -25.0 | -27.0 | |
| 8047.50 | -12.9 | V | 3.0 | 35.8 | 1.0 | -47.7 | -25.0 | -22.7 | |
| 10730.00 | -10.7 | V | 3.0 | 35.7 | 1.0 | -45.4 | -25.0 | -20.4 | |
| 5365.00 | -17.4 | H | 3.0 | 35.4 | 1.0 | -51.9 | -25.0 | -26.9 | |
| 8047.50 | -11.7 | H | 3.0 | 35.8 | 1.0 | -46.5 | -25.0 | -21.5 | |
| 10730.00 | -11.4 | H | 3.0 | 35.7 | 1.0 | -46.0 | -25.0 | -21.0 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|---------------------|--|-----------------|----------------|----------------|---------------|----------------|---------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/11/2015 | | | | | | | |
| Test Engineer: | | R.Alegre | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_16QAM Band 41 Harmonics, 10MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 2501 | | | | | | | | | |
| 5002.00 | -18.7 | V | 3.0 | 35.5 | 1.0 | -53.1 | -25.0 | -28.1 | |
| 7503.00 | -14.0 | V | 3.0 | 35.7 | 1.0 | -48.8 | -25.0 | -23.8 | |
| LTE41 | | | | | | | | | |
| 10004.00 | -11.8 | V | 3.0 | 36.0 | 1.0 | -46.8 | -25.0 | -21.8 | |
| 5002.00 | -17.4 | H | 3.0 | 35.5 | 1.0 | -51.9 | -25.0 | -26.9 | |
| 7503.00 | -12.5 | H | 3.0 | 35.7 | 1.0 | -47.2 | -25.0 | -22.2 | |
| 10MHz | | | | | | | | | |
| 10004.00 | -11.3 | H | 3.0 | 36.0 | 1.0 | -46.3 | -25.0 | -21.3 | |
| Mid Ch, 2593 | | | | | | | | | |
| 5186.00 | -18.0 | V | 3.0 | 35.4 | 1.0 | -52.4 | -25.0 | -27.4 | |
| 7779.00 | -13.0 | V | 3.0 | 35.8 | 1.0 | -47.8 | -25.0 | -22.8 | |
| 10372.00 | -11.4 | V | 3.0 | 35.8 | 1.0 | -46.2 | -25.0 | -21.2 | |
| 5186.00 | -17.8 | H | 3.0 | 35.4 | 1.0 | -52.2 | -25.0 | -27.2 | |
| 7779.00 | -11.9 | H | 3.0 | 35.8 | 1.0 | -46.7 | -25.0 | -21.7 | |
| 10372.00 | -10.4 | H | 3.0 | 35.8 | 1.0 | -45.2 | -25.0 | -20.2 | |
| High Ch, 2685 | | | | | | | | | |
| 5370.00 | -17.8 | V | 3.0 | 35.4 | 1.0 | -52.3 | -25.0 | -27.3 | |
| 8055.00 | -12.9 | V | 3.0 | 35.8 | 1.0 | -47.7 | -25.0 | -22.7 | |
| 10740.00 | -10.9 | V | 3.0 | 35.7 | 1.0 | -45.6 | -25.0 | -20.6 | |
| 5370.00 | -17.5 | H | 3.0 | 35.4 | 1.0 | -51.9 | -25.0 | -26.9 | |
| 8055.00 | -11.9 | H | 3.0 | 35.8 | 1.0 | -46.7 | -25.0 | -21.7 | |
| 10740.00 | -11.6 | H | 3.0 | 35.7 | 1.0 | -46.2 | -25.0 | -21.2 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/11/2015 | | | | | | | |
| Test Engineer: | | R.Alegre | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_QPSK Band 41 Harmonics, 10MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Band | | | | | | | | | |
| Low Ch, 2501 | | | | | | | | | |
| 5002.00 | -17.4 | V | 3.0 | 35.5 | 1.0 | -51.9 | -25.0 | -26.9 | |
| 7503.00 | -14.1 | V | 3.0 | 35.7 | 1.0 | -48.8 | -25.0 | -23.8 | |
| LTE41 | | | | | | | | | |
| 10004.00 | -11.3 | V | 3.0 | 36.0 | 1.0 | -46.4 | -25.0 | -21.4 | |
| 5002.00 | -17.3 | H | 3.0 | 35.5 | 1.0 | -51.7 | -25.0 | -26.7 | |
| 7503.00 | -12.4 | H | 3.0 | 35.7 | 1.0 | -47.1 | -25.0 | -22.1 | |
| 10MHz | | | | | | | | | |
| 10004.00 | -11.0 | H | 3.0 | 36.0 | 1.0 | -46.0 | -25.0 | -21.0 | |
| Mid Ch, 2593 | | | | | | | | | |
| QPSK | | | | | | | | | |
| 5186.00 | -17.9 | V | 3.0 | 35.4 | 1.0 | -52.3 | -25.0 | -27.3 | |
| 7779.00 | -12.8 | V | 3.0 | 35.8 | 1.0 | -47.5 | -25.0 | -22.5 | |
| 10372.00 | -11.0 | V | 3.0 | 35.8 | 1.0 | -45.9 | -25.0 | -20.9 | |
| 5186.00 | -17.6 | H | 3.0 | 35.4 | 1.0 | -52.0 | -25.0 | -27.0 | |
| 7779.00 | -12.7 | H | 3.0 | 35.8 | 1.0 | -47.4 | -25.0 | -22.4 | |
| 10372.00 | -9.2 | H | 3.0 | 35.8 | 1.0 | -44.0 | -25.0 | -19.0 | |
| High Ch, 2685 | | | | | | | | | |
| 5370.00 | -17.5 | V | 3.0 | 35.4 | 1.0 | -51.9 | -25.0 | -26.9 | |
| 8055.00 | -12.9 | V | 3.0 | 35.8 | 1.0 | -47.7 | -25.0 | -22.7 | |
| 10740.00 | -10.8 | V | 3.0 | 35.7 | 1.0 | -45.5 | -25.0 | -20.5 | |
| 5370.00 | -17.3 | H | 3.0 | 35.4 | 1.0 | -51.8 | -25.0 | -26.8 | |
| 8055.00 | -11.6 | H | 3.0 | 35.8 | 1.0 | -46.4 | -25.0 | -21.4 | |
| 10740.00 | -11.3 | H | 3.0 | 35.7 | 1.0 | -46.0 | -25.0 | -21.0 | |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | |
|--|------------------|---|--------------|-------------|-------------|------------|-------------|------------|-------|
| Company: | | LG Electronics | | | | | | | |
| Project #: | | 15I21235 | | | | | | | |
| Date: | | 7/11/2015 | | | | | | | |
| Test Engineer: | | R.Alegre | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | |
| Location: | | Chamber C | | | | | | | |
| Mode: | | LTE_16QAM Band 41 Harmonics, 5MHz Bandwidth | | | | | | | |
| f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| Low Ch, 2498.5 | | | | | | | | | |
| Band | 4997.00 | -18.2 | V | 3.0 | 35.5 | 1.0 | -52.6 | -25.0 | -27.6 |
| | 7495.50 | -13.6 | V | 3.0 | 35.7 | 1.0 | -48.4 | -25.0 | -23.4 |
| LTE41 | 9994.00 | -11.9 | V | 3.0 | 36.0 | 1.0 | -46.9 | -25.0 | -21.9 |
| | 4997.00 | -17.5 | H | 3.0 | 35.5 | 1.0 | -52.0 | -25.0 | -27.0 |
| | 7495.50 | -12.5 | H | 3.0 | 35.7 | 1.0 | -47.2 | -25.0 | -22.2 |
| 5MHz | 9994.00 | -11.3 | H | 3.0 | 36.0 | 1.0 | -46.3 | -25.0 | -21.3 |
| Mid Ch, 2593 | | | | | | | | | |
| 16QAM | 5186.00 | -17.8 | V | 3.0 | 35.4 | 1.0 | -52.2 | -25.0 | -27.2 |
| | 7779.00 | -13.2 | V | 3.0 | 35.8 | 1.0 | -48.0 | -25.0 | -23.0 |
| | 10372.00 | -11.4 | V | 3.0 | 35.8 | 1.0 | -46.3 | -25.0 | -21.3 |
| | 5186.00 | -17.8 | H | 3.0 | 35.4 | 1.0 | -52.3 | -25.0 | -27.3 |
| | 7779.00 | -11.8 | H | 3.0 | 35.8 | 1.0 | -46.6 | -25.0 | -21.6 |
| | 10372.00 | -10.3 | H | 3.0 | 35.8 | 1.0 | -45.2 | -25.0 | -20.2 |
| High Ch, 2687.5 | | | | | | | | | |
| | 5375.00 | -17.8 | V | 3.0 | 35.4 | 1.0 | -52.2 | -25.0 | -27.2 |
| | 8062.50 | -13.0 | V | 3.0 | 35.8 | 1.0 | -47.8 | -25.0 | -22.8 |
| | 10750.00 | -11.0 | V | 3.0 | 35.7 | 1.0 | -45.6 | -25.0 | -20.6 |
| | 5375.00 | -17.5 | H | 3.0 | 35.4 | 1.0 | -51.9 | -25.0 | -26.9 |
| | 8062.50 | -12.0 | H | 3.0 | 35.8 | 1.0 | -46.8 | -25.0 | -21.8 |
| | 10750.00 | -11.2 | H | 3.0 | 35.7 | 1.0 | -45.8 | -25.0 | -20.8 |

| UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement | | | | | | | | | | |
|--|------------------------|--|--------------------|-----------------|----------------|----------------|---------------|----------------|---------------|-------|
| Company: | | LG Electronics | | | | | | | | |
| Project #: | | 15I21235 | | | | | | | | |
| Date: | | 7/11/2015 | | | | | | | | |
| Test Engineer: | | R. Alegre | | | | | | | | |
| Configuration: | | EUT , AC Adapter, Headset | | | | | | | | |
| Location: | | Chamber C | | | | | | | | |
| Mode: | | LTE_QPSK Band 41 Harmonics, 5MHz Bandwidth | | | | | | | | |
| | f MHz | SG reading (dBm) | Ant. Pol. (H/V) | Distance (m) | Preamp (dB) | Filter (dB) | EIRP (dBm) | Limit (dBm) | Delta (dB) | Notes |
| | Low Ch, 2498.5 | | | | | | | | | |
| Band | 4997.00 | -17.6 | V | 3.0 | 35.5 | 1.0 | -52.0 | -25.0 | -27.0 | |
| | 7495.50 | -14.0 | V | 3.0 | 35.7 | 1.0 | -48.8 | -25.0 | -23.8 | |
| LTE41 | 9994.00 | -11.4 | V | 3.0 | 36.0 | 1.0 | -46.4 | -25.0 | -21.4 | |
| | 4997.00 | -17.3 | H | 3.0 | 35.5 | 1.0 | -51.7 | -25.0 | -26.7 | |
| | 7495.50 | -12.5 | H | 3.0 | 35.7 | 1.0 | -47.2 | -25.0 | -22.2 | |
| 5MHz | 9994.00 | -10.8 | H | 3.0 | 36.0 | 1.0 | -45.9 | -25.0 | -20.9 | |
| | Mid Ch, 2593 | | | | | | | | | |
| QPSK | 5186.00 | -17.8 | V | 3.0 | 35.4 | 1.0 | -52.2 | -25.0 | -27.2 | |
| | 7779.00 | -12.6 | V | 3.0 | 35.8 | 1.0 | -47.4 | -25.0 | -22.4 | |
| | 10372.00 | -11.2 | V | 3.0 | 35.8 | 1.0 | -46.0 | -25.0 | -21.0 | |
| | 5186.00 | -17.7 | H | 3.0 | 35.4 | 1.0 | -52.1 | -25.0 | -27.1 | |
| | 7779.00 | -12.0 | H | 3.0 | 35.8 | 1.0 | -46.8 | -25.0 | -21.8 | |
| | 10372.00 | -10.1 | H | 3.0 | 35.8 | 1.0 | -45.0 | -25.0 | -20.0 | |
| | High Ch, 2687.5 | | | | | | | | | |
| | 5375.00 | -17.6 | V | 3.0 | 35.4 | 1.0 | -52.0 | -25.0 | -27.0 | |
| | 8062.50 | -13.0 | V | 3.0 | 35.8 | 1.0 | -47.8 | -25.0 | -22.8 | |
| | 10750.00 | -10.9 | V | 3.0 | 35.7 | 1.0 | -45.5 | -25.0 | -20.5 | |
| | 5375.00 | -17.3 | H | 3.0 | 35.4 | 1.0 | -51.7 | -25.0 | -26.7 | |
| | 8062.50 | -11.8 | H | 3.0 | 35.8 | 1.0 | -46.6 | -25.0 | -21.6 | |
| | 10750.00 | -11.3 | H | 3.0 | 35.7 | 1.0 | -45.9 | -25.0 | -20.9 | |