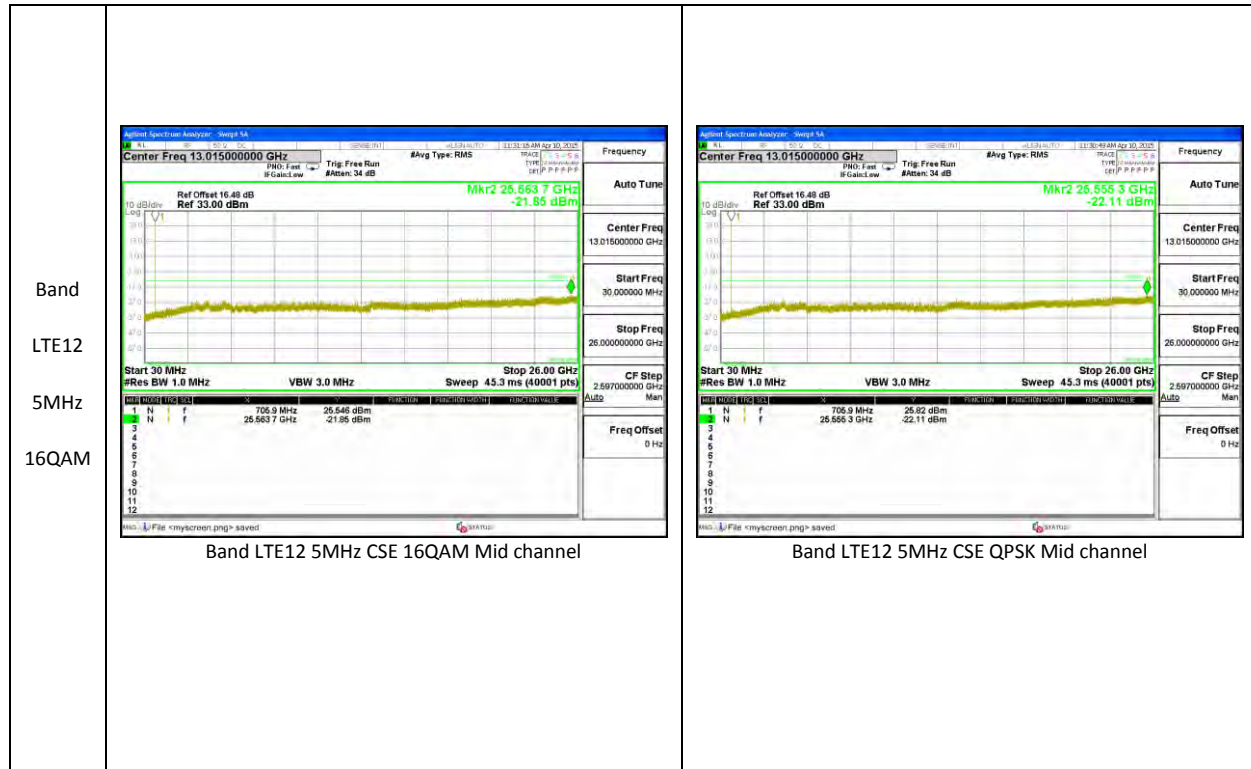
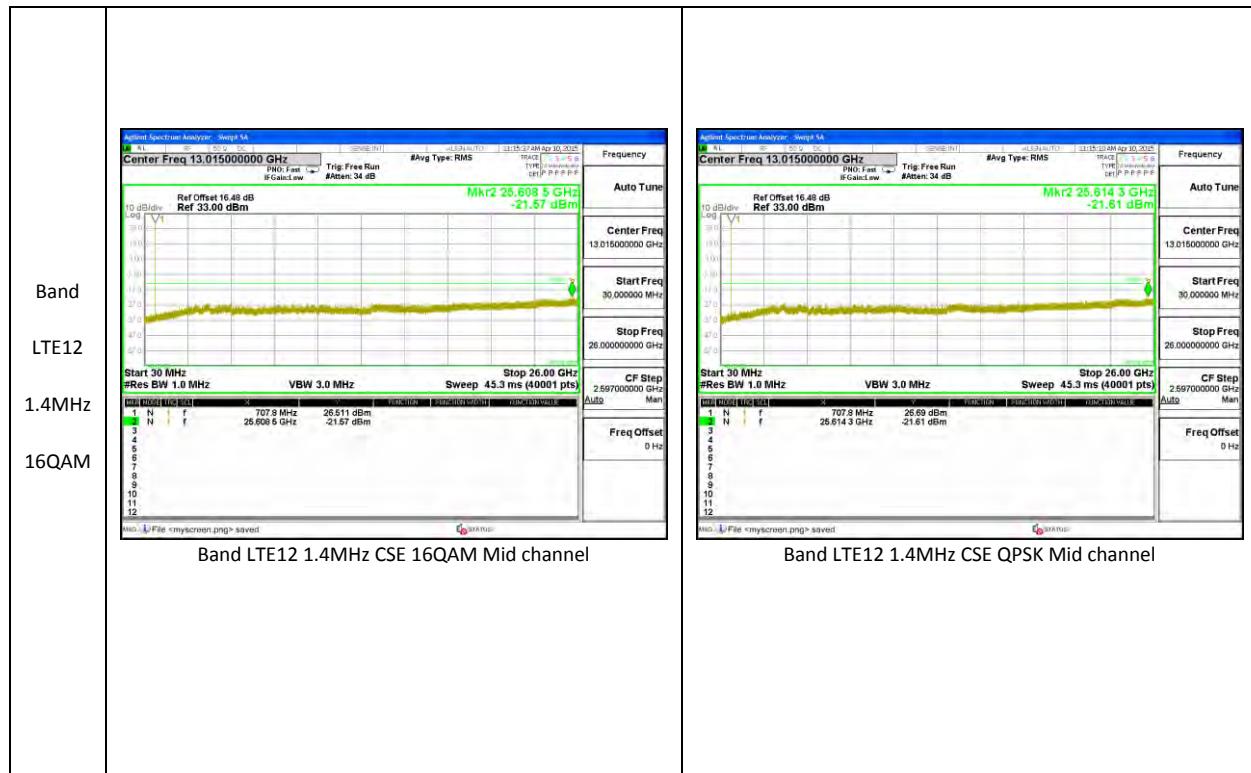
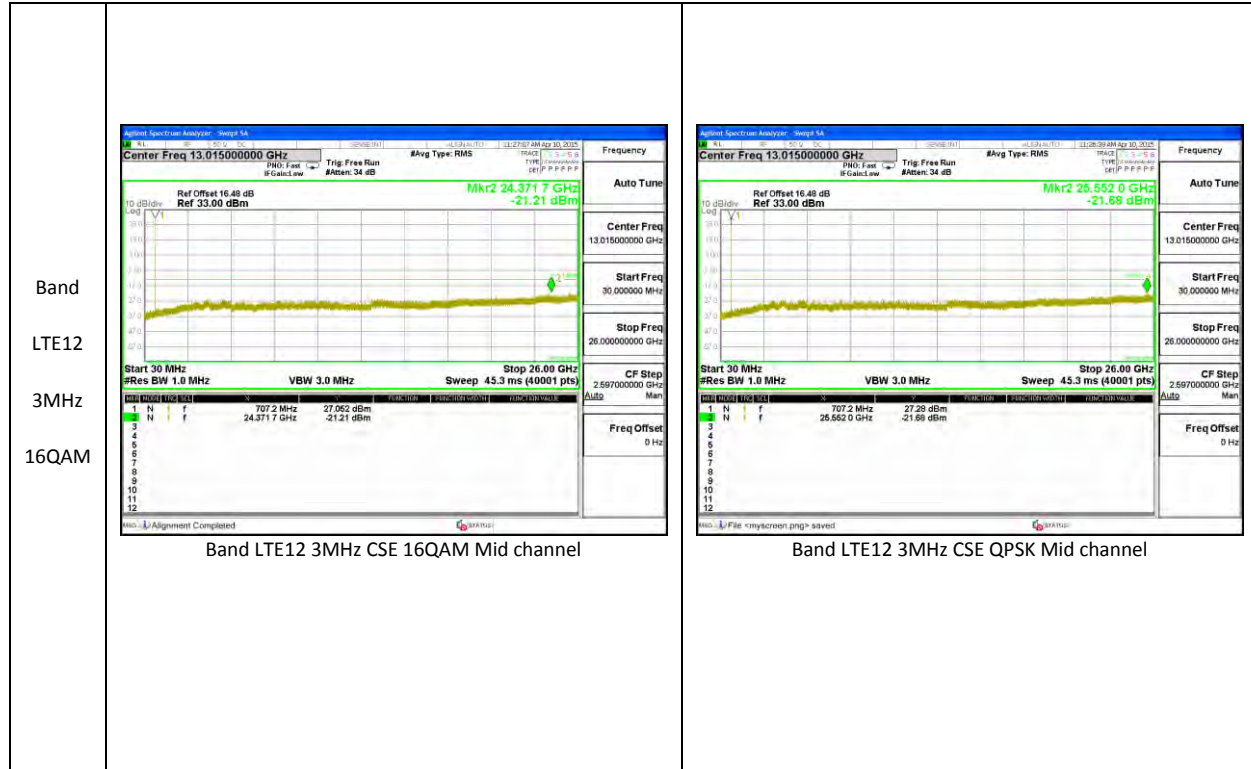
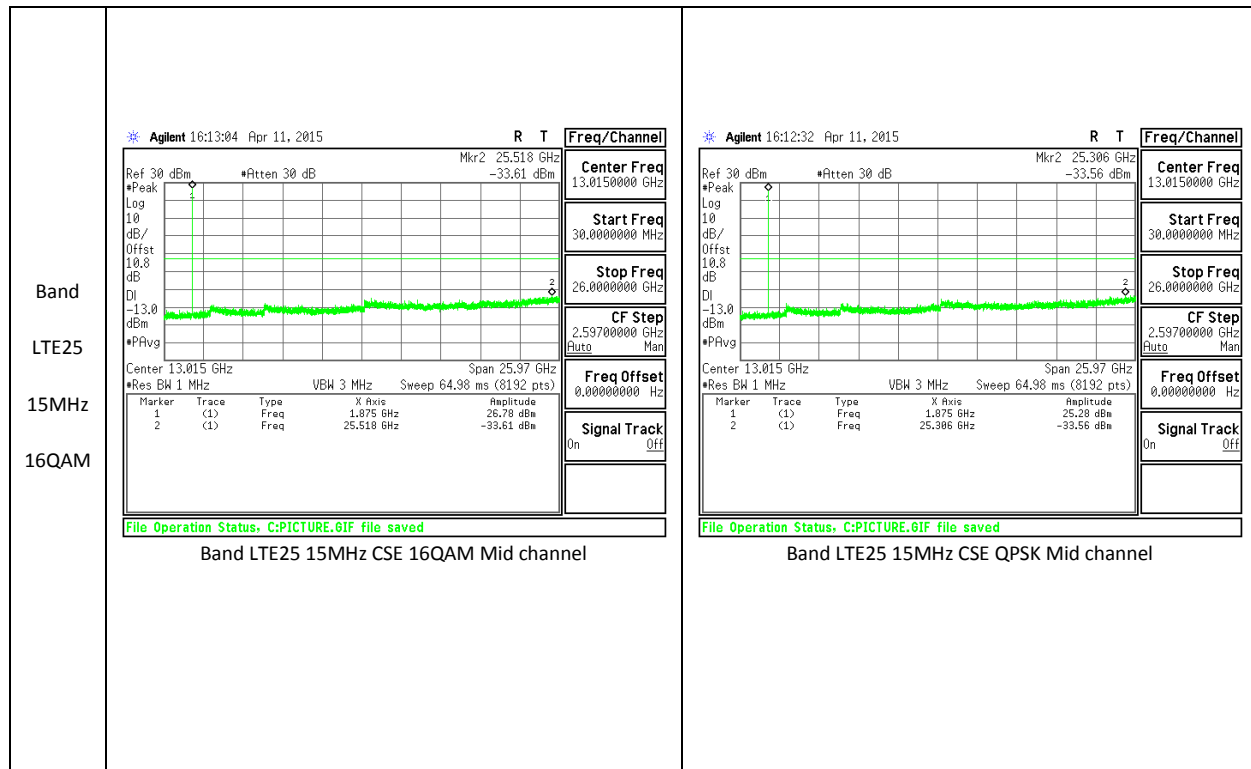
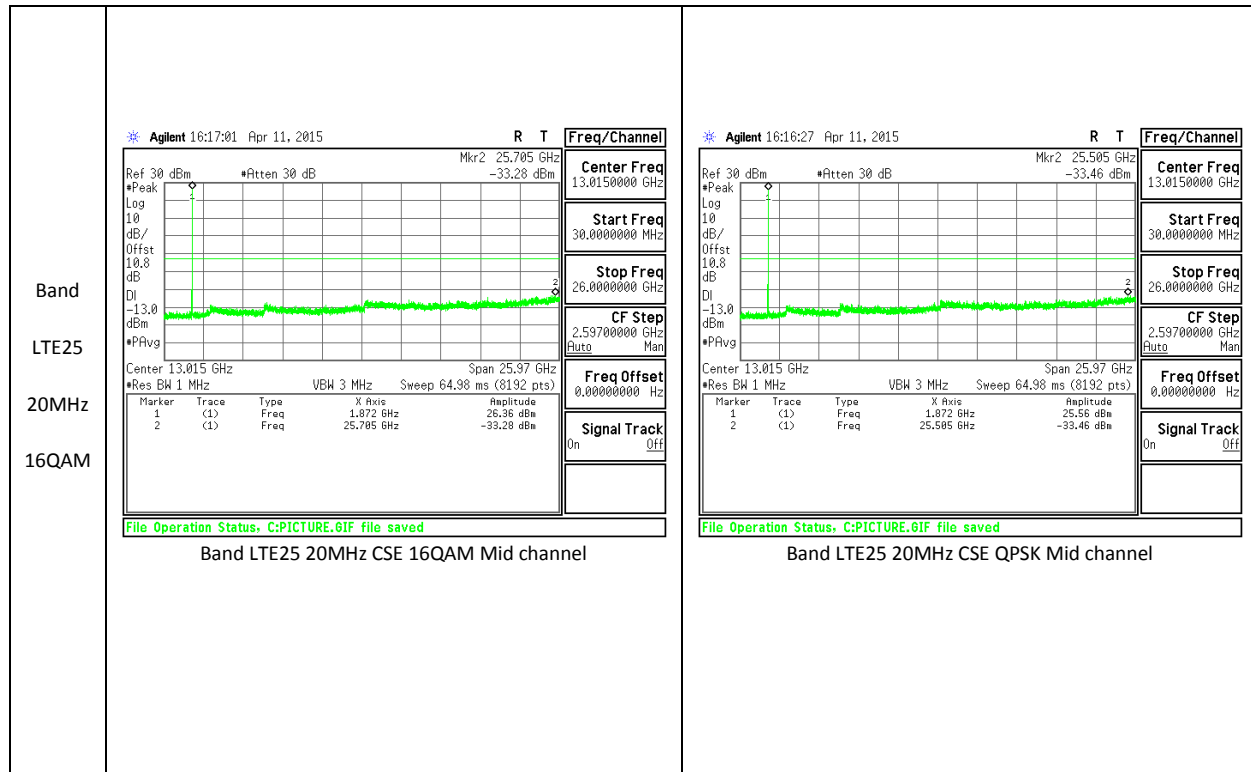


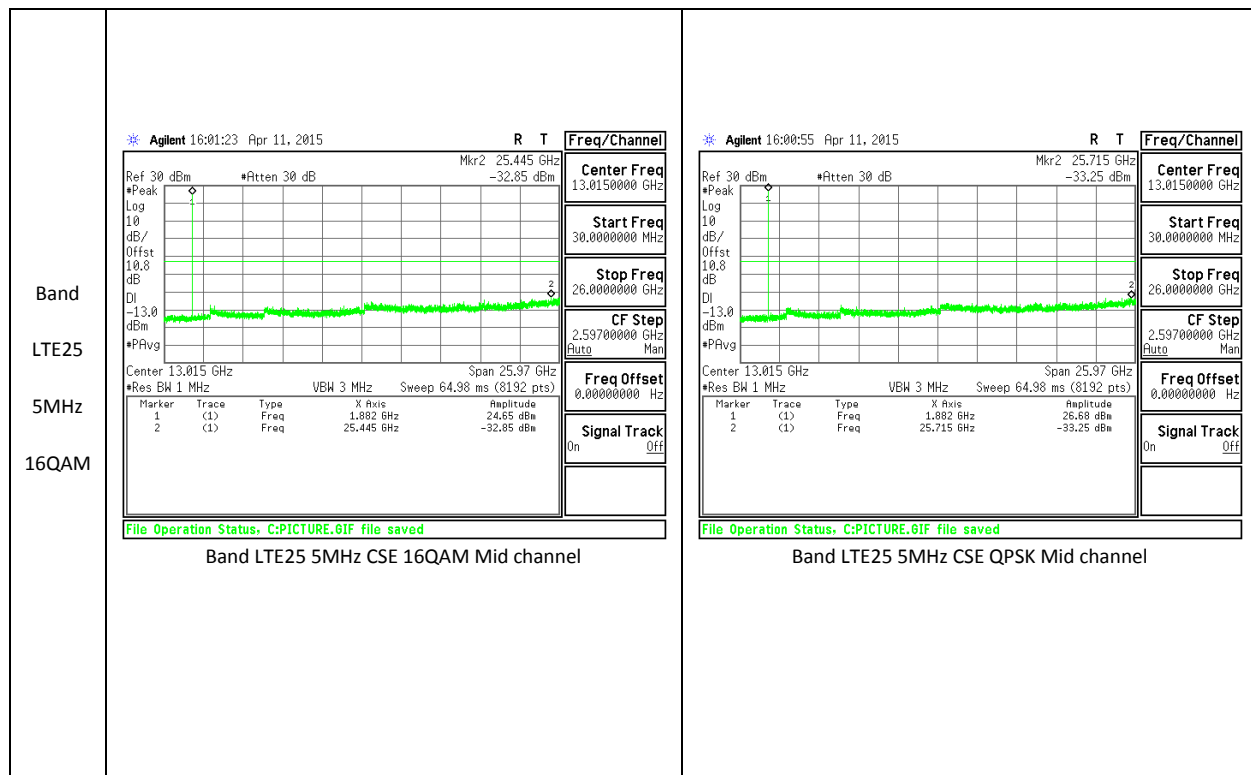
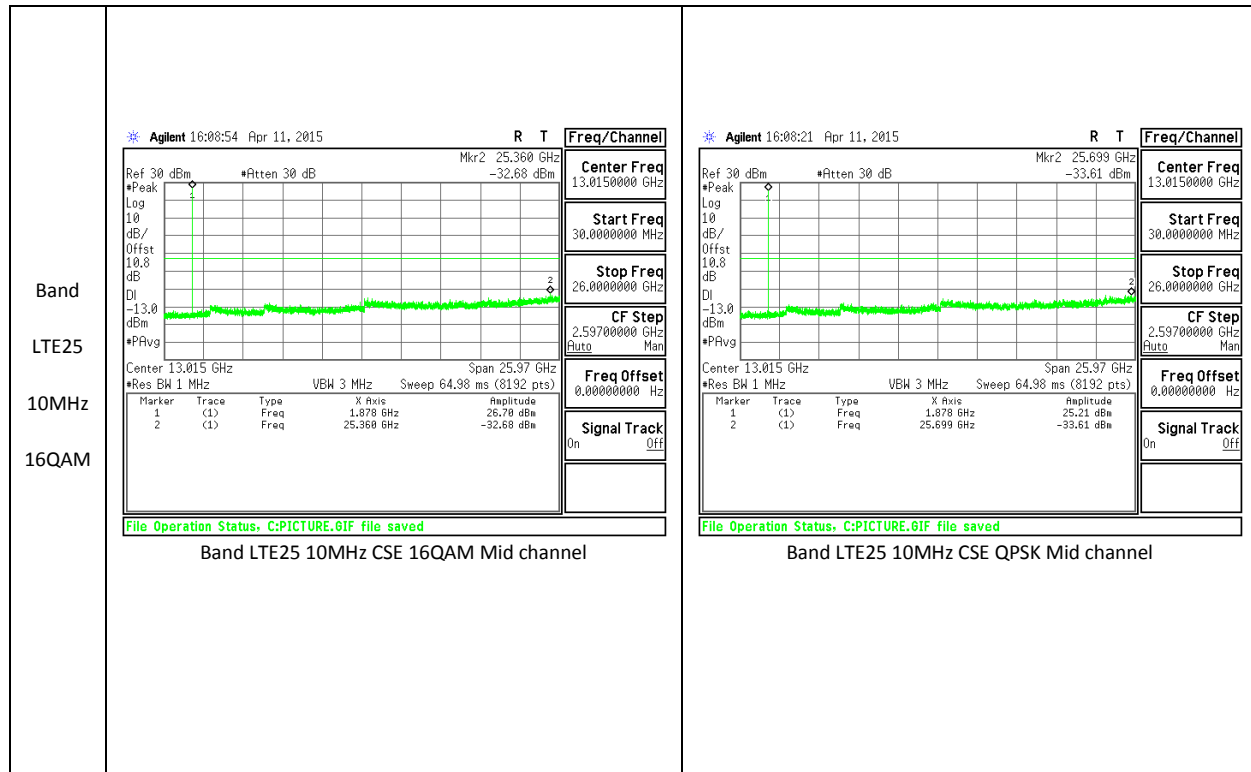
LTE Band 12

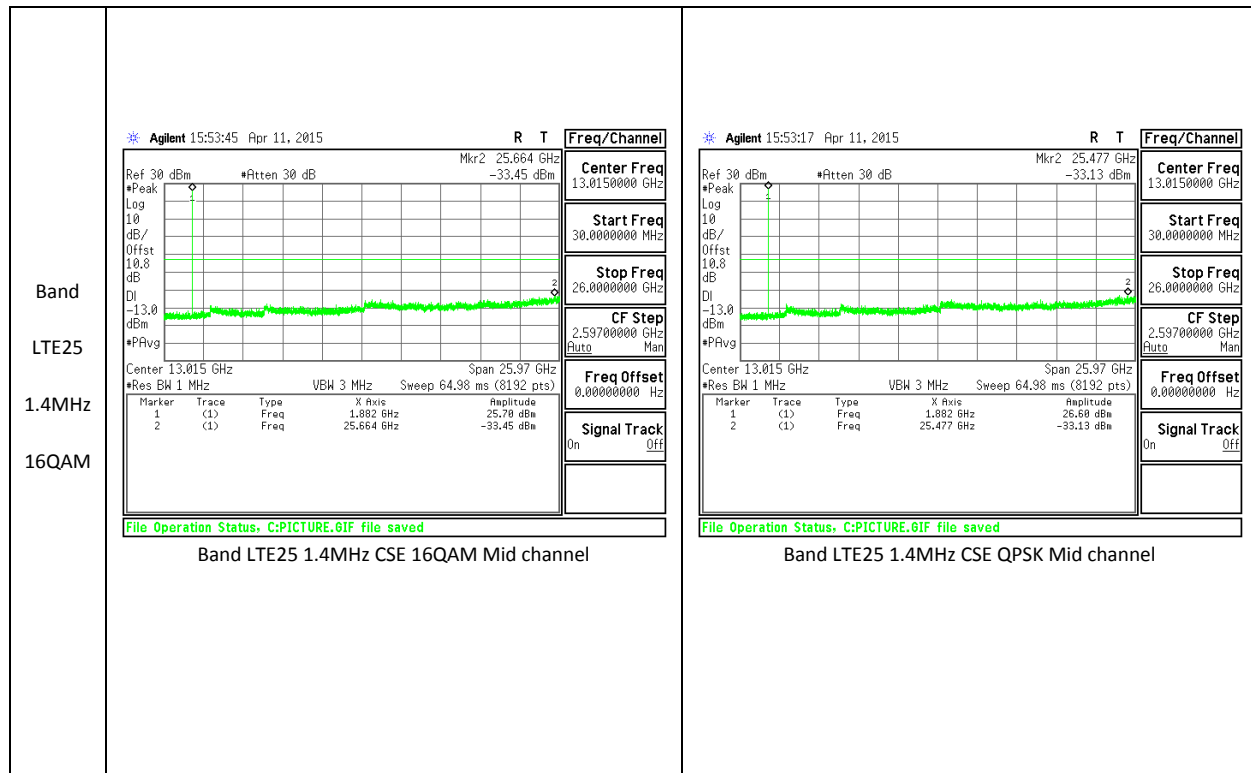
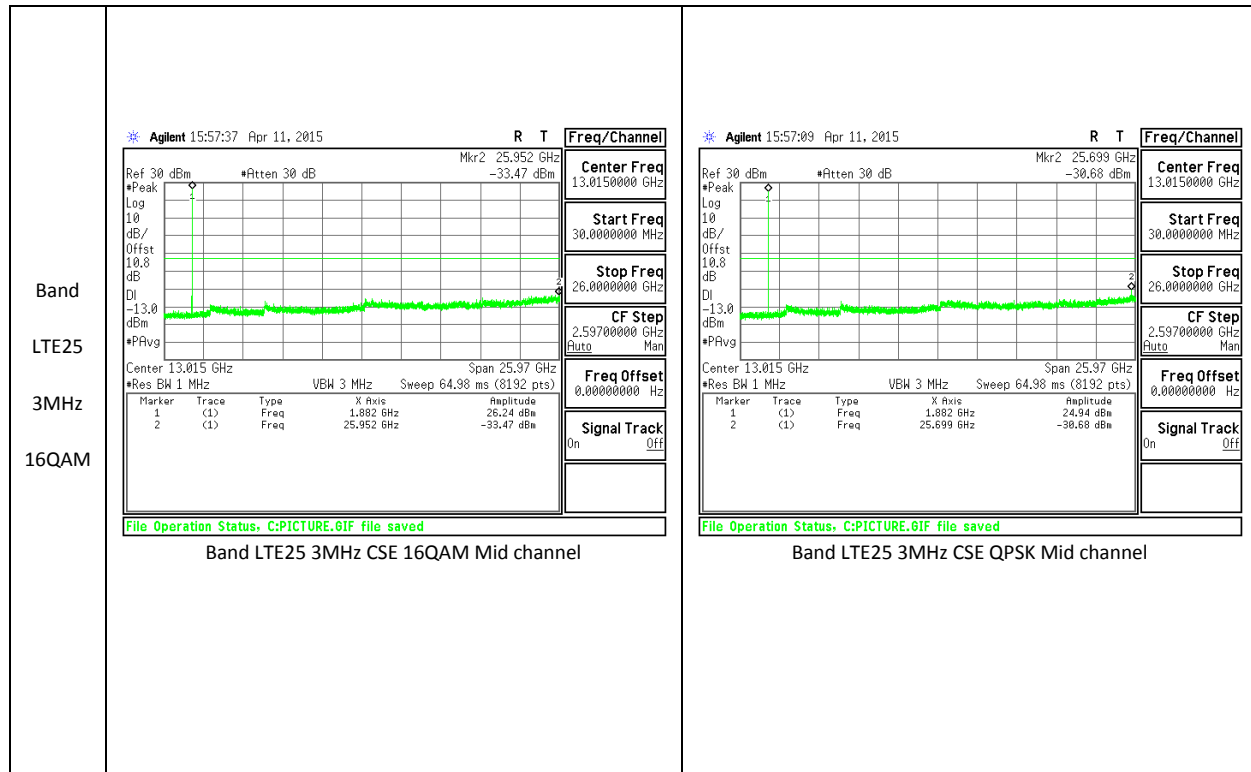




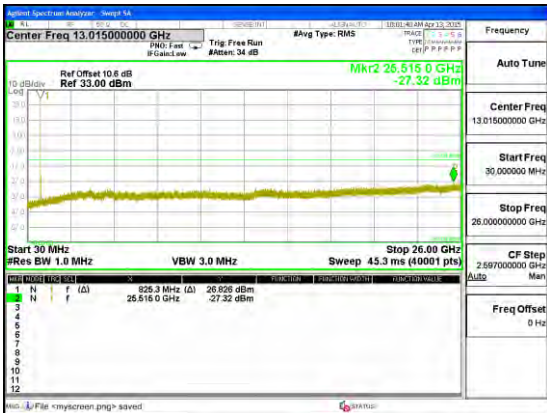
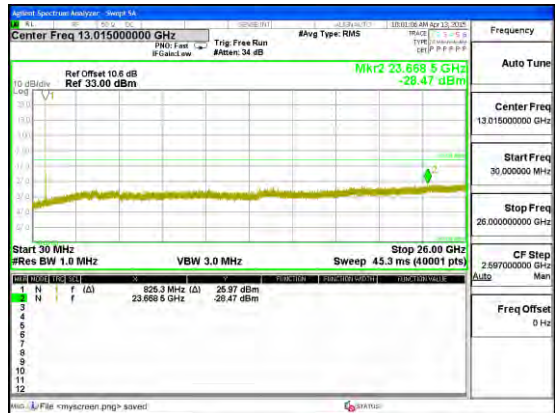
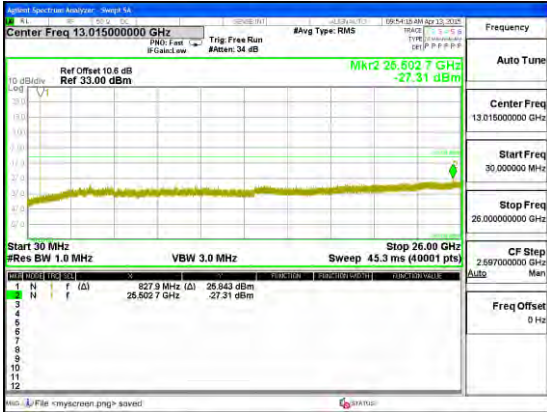
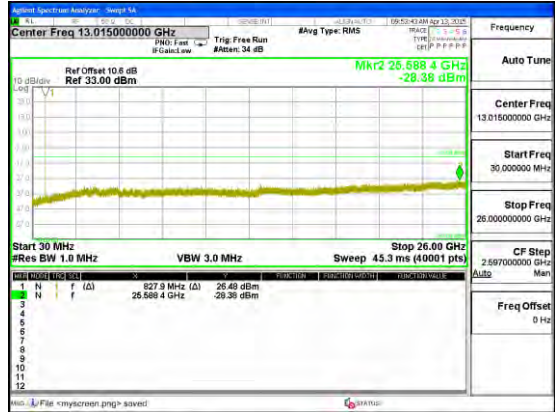
LTE Band 25







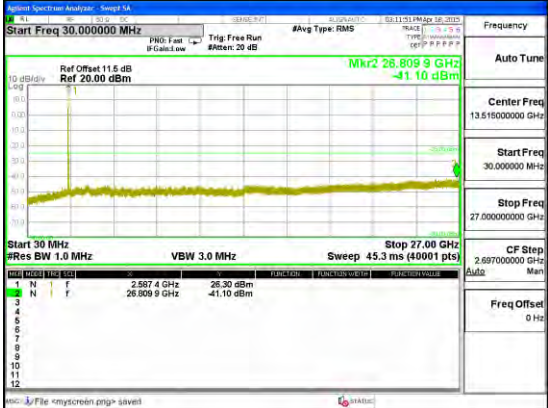
LTE Band 26

<p>Band LTE26 15MHz 16QAM</p>	 <p>Band LTE26 15MHz CSE 16QAM Mid channel</p>	 <p>Band LTE26 15MHz CSE QPSK Mid channel</p>
<p>Band LTE26 10MHz 16QAM</p>	 <p>Band LTE26 10MHz CSE 16QAM Mid channel</p>	 <p>Band LTE26 10MHz CSE QPSK Mid channel</p>

<p>Band LTE26 5MHz 16QAM</p>	<p>Center Freq 13.01500000 GHz Start Freq 30.000000 MHz Stop Freq 28.00000000 GHz Res BW 1.0 MHz Sweep 45.3 ms (40001 pts)</p> <p>Mkr2 25.6877 GHz -28.01 dBm</p>	<p>Center Freq 13.01500000 GHz Start Freq 30.000000 MHz Stop Freq 28.00000000 GHz Res BW 1.0 MHz Sweep 45.3 ms (40001 pts)</p> <p>Mkr2 25.6280 GHz -28.13 dBm</p>
<p>Band LTE26 3MHz 16QAM</p>	<p>Center Freq 13.01500000 GHz Start Freq 30.000000 MHz Stop Freq 28.00000000 GHz Res BW 1.0 MHz Sweep 45.3 ms (40001 pts)</p> <p>Mkr2 25.6676 GHz -28.13 dBm</p>	<p>Center Freq 13.01500000 GHz Start Freq 30.000000 MHz Stop Freq 28.00000000 GHz Res BW 1.0 MHz Sweep 45.3 ms (40001 pts)</p> <p>Mkr2 25.8981 GHz -27.86 dBm</p>



LTE Band 41

<p>Band LTE41 20MHz 16QAM</p>	 <p>Band LTE41 20MHz CSE 16QAM Mid channel</p>	 <p>Band LTE41 20MHz CSE QPSK Mid channel</p>
<p>Band LTE41 15MHz 16QAM</p>	 <p>Band LTE41 15MHz CSE 16QAM Mid channel</p>	 <p>Band LTE41 15MHz CSE QPSK Mid channel</p>



10.4. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355, §24.235, §27.54 and §90.213

LIMITS

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

§24.235 - The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

§27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

§90.213 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

MODES TESTED

CDMA, LTE

RESULTS

See the following pages.

10.4.1. FREQUENCY STABILITY RESULTS

LTE Band 2, Freq: 1880MHz- MID CHANNEL

Reference Frequency: PCS Mid Channel		1880	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		4700.000	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	1879.999991	0.002	2.5
3.80	40	1879.999991	0.002	2.5
3.80	30	1879.999991	0.002	2.5
3.80	20	1879.999995	0	2.5
3.80	10	1879.999995	0.000	2.5
3.80	0	1879.999995	0.000	2.5
3.80	-10	1879.999994	0.001	2.5
3.80	-20	1879.999994	0.001	2.5
3.80	-30	1879.999994	0.001	2.5

Reference Frequency: PCS Mid Channel		1880	MHz @ 20°C	
Limit: to stay +/- 2.5 ppm =		4700.000	Hz	
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	1879.999995	0	2.5
4.37	20	1879.999994	0.001	2.5
3.23(End of volt)	20	1879.999994	0.001	2.5

LTE Band 4, Freq: 1732.5MHz- MID CHANNEL

Reference Frequency: PCS Mid Channel 1732.5 MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 4331.250 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	1732.500000	0.002	2.5
3.80	40	1732.499994	0.006	2.5
3.80	30	1732.499992	0.007	2.5
3.80	20	1732.500004	0	2.5
3.80	10	1732.500004	0.000	2.5
3.80	0	1732.500005	-0.001	2.5
3.80	-10	1732.500005	0.000	2.5
3.80	-20	1732.500003	0.000	2.5
3.80	-30	1732.500008	-0.003	2.5

Reference Frequency: PCS Mid Channel 1732.5 MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 4331.250 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	1732.500004	0	2.5
4.37	20	1732.500005	-0.001	2.5
3.23(End of volt)	20	1732.500003	0.000	2.5

LTE Band 12, Freq: 707.5 MHz-- MID CHANNEL

Reference Frequency: PCS Mid Channel 707.5 MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 1768.750 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	707.499980	0.032	2.5
3.80	40	707.499997	0.007	2.5
3.80	30	707.499998	0.006	2.5
3.80	20	707.500002	0	2.5
3.80	10	707.500002	0.001	2.5
3.80	0	707.500002	0.000	2.5
3.80	-10	707.500003	-0.001	2.5
3.80	-20	707.500001	0.001	2.5
3.80	-30	707.500002	0.000	2.5

707.500000 0.003

Reference Frequency: PCS Mid Channel 707.5 MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 1768.750 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	707.500002	0	2.5
4.37	20	707.5000021	0.000	2.5
3.23(End of volt)	20	707.500002	0.001	2.5

LTE Band 26, Freq: 831.5 MHz– MID CHANNEL

Reference Frequency: PCS Mid Channel 831.5 MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 2078.750 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	831.499998	0.002	2.5
3.80	40	831.499997	0.002	2.5
3.80	30	831.499997	0.002	2.5
3.80	20	831.499999	0	2.5
3.80	10	831.500002	-0.003	2.5
3.80	0	831.500003	-0.004	2.5
3.80	-10	831.500002	-0.004	2.5
3.80	-20	831.500003	-0.005	2.5
3.80	-30	831.500003	-0.005	2.5

Reference Frequency: PCS Mid Channel 831.5 MHz @ 20°C				
Limit: to stay +/- 2.5 ppm = 2078.750 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	831.499999	0	2.5
4.37	20	831.5000032	-0.005	2.5
3.23(End of volt)	20	831.5000031	-0.005	2.5

LTE Band 41, Freq: 2593 MHz- MID CHANNEL

Reference Frequency: PCS Mid Channel 2593 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 6482.500 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	2593.000017	-0.003	2.5
3.80	40	2593.000014	-0.001	2.5
3.80	30	2593.000013	-0.001	2.5
3.80	20	2593.000010	0	2.5
3.80	10	2593.000010	0.000	2.5
3.80	0	2593.000010	0.000	2.5
3.80	-10	2593.000012	-0.001	2.5
3.80	-20	2593.000016	-0.002	2.5
3.80	-30	2593.000017	-0.002	2.5

Reference Frequency: PCS Mid Channel 2593 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 6482.500 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	2593.000010	0	2.5
4.37	20	2593.000022	-0.005	2.5
3.23(End of volt)	20	2593.000012	-0.001	2.5

11. RADIATED TEST RESULTS

11.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27 and § 90.635.

LIMITS

22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

24.232(c) - Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

27.50(b) - (10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP. (LTE B13)

27.50(c) - (10) Portable stations (hand-held devices) are limited to 3 watts ERP; (LTE B17)

27.50(d) - (4) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.(Band 4)

27.50(h) - (2) Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.(LTE B41 & 7)

90.635(b) - The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw). (LTE B26)
In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13dB.

TEST PROCEDURE

ANSI / TIA / EIA 603C Clause 2.2.17; PSA setting reference to 971168 D01 v02r02

For peak power measurement with a PSA:

a) Set the RBW \geq OBW; b) Set VBW $\geq 3 \times$ RBW; c) Set span $\geq 2 \times$ RBW; d) Sweep time = auto couple; e) Detector = peak; f) Ensure that the number of measurement points \geq span/RBW; g) Trace mode = max hold;

For average power measurement with a PSA:

a) Set span to at least 1.5 times the OBW; b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz; c) Set VBW $\geq 3 \times$ RBW; d) Set number of points in sweep $\geq 2 \times$ span / RBW; e) Sweep time = auto-couple; f) Detector = RMS (power averaging); g) Use free run trigger If burst duty cycle ≥ 98 ; h) Use trigger to capture bursts If burst duty cycle < 98 ; i) Trace average at least 100 traces in power averaging (*i.e.*, RMS) mode. j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function.

MODES TESTED

CDMA, LTE

RESULTS

11.1.1. ERP/EIRP RESULTS

CDMA

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC10	1xRTT	476	817.9	22.50	177.87
		580	820.5	22.74	187.97
		684	823.1	23.30	213.85
	EVDO REL. 0	476	817.9	22.60	181.97
		580	820.5	22.62	182.81
		684	823.1	23.30	213.80

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC0	1xRTT	1013	824.7	22.40	173.82
		384	836.52	22.60	182.01
		777	848.31	23.50	223.92
	EVDO REL. 0	1013	824.7	21.20	131.83
		384	836.52	21.70	147.91
		777	848.31	22.70	186.21

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC1	1xRTT	25	1851.25	25.30	338.84
		600	1880	26.00	398.11
		1175	1908.75	26.50	446.68
	EVDO REL. 0	25	1851.25	25.50	354.81
		600	1880	25.90	389.05
		1175	1908.75	26.38	434.51

11.1.2. LTE ERP/EIRP RESULTS

LTE Band 2

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	EIRP	
					dBm	mW
LTE2	20	QPSK	1/0	1860	24.68	293.76
			1/0	1880	25.10	323.59
			1/0	1900	26.30	426.58
		16QAM	1/0	1860	24.20	263.03
			1/0	1880	24.50	281.84
			1/0	1900	25.80	380.19
	15	QPSK	1/0	1857.5	24.80	302
			1/0	1880	25.30	338.84
			1/0	1902.5	26.10	407.38
		16QAM	1/0	1857.5	24.30	269.15
			1/0	1880	24.70	295.12
			1/0	1902.5	25.60	363.08
	10	QPSK	1/0	1855	25.20	331.13
			1/0	1880	25.00	316.23
			1/0	1905	26.10	407.38
		16QAM	1/0	1855	24.60	288.4
			1/0	1880	24.38	274.16
			1/0	1905	25.50	354.81
	5	QPSK	1/0	1852.5	25.10	323.59
			1/0	1880	24.70	295.12
			1/0	1907.5	25.80	380.19
		16QAM	1/0	1852.5	24.70	295.12
			1/0	1880	24.16	260.62
			1/0	1907.5	25.30	338.84

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	EIRP	
					dBm	mW
LTE2	3	QPSK	1/0	1851.5	24.70	295.12
			1/0	1880	25.44	349.95
			1/0	1908.5	26.66	463.45
		16QAM	1/0	1851.5	24.28	267.92
			1/0	1880	24.86	306.2
			1/0	1908.5	26.28	424.62
	1.4	QPSK	1/0	1850.7	24.84	304.44
			1/0	1880	24.95	312.61
			1/0	1909.3	25.47	352.05
		16QAM	1/0	1850.7	24.38	274.16
			1/0	1880	24.60	288.4
			1/0	1909.3	25.10	323.59

LTE Band 4

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	20	QPSK	1/0	1720	22.68	185.22
			1/0	1732.5	22.97	198.2
			1/0	1745	24.23	264.56
		16QAM	1/0	1720	22.12	162.81
			1/0	1732.5	22.47	176.65
			1/0	1745	23.73	235.79
	15	QPSK	1/0	1717.5	22.83	191.69
			1/0	1732.5	23.92	246.66
			1/0	1747.5	24.52	282.89
		16QAM	1/0	1717.5	22.39	173.22
			1/0	1732.5	23.35	216.32
			1/0	1747.5	24.02	252.12
	10	QPSK	1/0	1715	23.02	200.22
			1/0	1732.5	23.02	200.5
			1/0	1750	24.71	295.6
		16QAM	1/0	1715	22.54	179.27
			1/0	1732.5	22.46	176.24
			1/0	1750	24.21	263.45
	5	QPSK	1/0	1712.5	22.54	179.65
			1/0	1732.5	23.57	227.56
			1/0	1752.5	23.96	248.76
		16QAM	1/0	1712.5	22.14	163.84
			1/0	1732.5	22.94	196.84
			1/0	1752.5	23.55	226.35

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	3	QPSK	1/0	1711.5	22.72	186.98
			1/0	1732.5	23.04	201.42
			1/0	1753.5	24.06	254.93
		16QAM	1/0	1711.5	22.38	172.9
			1/0	1732.5	22.67	184.97
			1/0	1753.5	23.67	233.03
	1.4	QPSK	1/0	1710.7	22.65	184.11
			1/0	1732.5	22.87	193.69
			1/0	1754.3	24.09	256.52
		16QAM	1/0	1710.7	22.25	167.91
			1/0	1732.5	22.50	177.87
			1/0	1754.3	23.69	233.95

LTE Band 5

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE5	10	QPSK	1/0	829	21.73	148.94
			1/0	836.5	21.60	144.54
			1/0	844	22.80	190.55
		16QAM	1/0	829	20.76	119.12
			1/0	836.5	20.68	116.95
			1/0	844	21.87	153.82
	5	QPSK	1/0	826.5	21.54	142.56
			1/0	836.5	21.63	145.55
			1/0	846.5	22.70	186.21
		16QAM	1/0	826.5	20.50	112.2
			1/0	836.5	20.70	117.49
			1/0	846.5	21.80	151.36
	3	QPSK	1/0	825.5	21.67	146.89
			1/0	836.5	21.79	151.01
			1/0	847.5	22.80	190.55
		16QAM	1/0	825.5	20.80	120.23
			1/0	836.5	20.96	124.74
			1/0	847.5	21.94	156.31
	1.4	QPSK	1/0	824.7	21.48	140.6
			1/0	836.5	21.80	151.36
			1/0	848.3	22.70	186.21
		16QAM	1/0	824.7	20.50	112.2
			1/0	836.5	20.90	123.03
			1/0	848.3	21.70	147.91

LTE Band 12

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE12	10	QPSK	1/0	704	19.70	93.33
			1/0	707.5	19.98	99.54
			1/0	711	20.20	104.71
		16QAM	1/0	704	19.24	83.95
			1/0	707.5	19.66	92.47
			1/0	711	19.78	95.06
	5	QPSK	1/0	701.5	19.40	87.1
			1/0	707.5	19.90	97.72
			1/0	713.5	20.30	107.15
		16QAM	1/0	701.5	18.93	78.16
			1/0	707.5	19.46	88.31
			1/0	713.5	19.78	95.06
	3	QPSK	1/0	700.5	19.80	95.5
			1/0	707.5	19.96	99.08
			1/0	714.5	20.40	109.65
		16QAM	1/0	700.5	19.28	84.72
			1/0	707.5	19.50	89.13
			1/0	714.5	19.90	97.72
	1.4	QPSK	1/0	699.7	19.60	91.2
			1/0	707.5	19.85	96.61
			1/0	715.3	20.42	110.15
		16QAM	1/0	699.7	19.08	80.91
			1/0	707.5	19.40	87.1
			1/0	715.3	19.90	97.72

LTE Band 25

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	20	QPSK	1/0	1860	24.68	293.76
			1/0	1882.5	25.10	323.59
			1/0	1905	26.30	426.58
		16QAM	1/0	1860	24.20	263.03
			1/0	1882.5	24.50	281.84
			1/0	1905	25.80	380.19
	15	QPSK	1/0	1857.5	24.80	302
			1/0	1882.5	25.30	338.84
			1/0	1907.5	26.10	407.38
		16QAM	1/0	1857.5	24.30	269.15
			1/0	1882.5	24.70	295.12
			1/0	1907.5	25.60	363.08
	10	QPSK	1/0	1855	25.20	331.13
			1/0	1882.5	25.00	316.23
			1/0	1910	26.10	407.38
		16QAM	1/0	1855	24.60	288.4
			1/0	1882.5	24.38	274.16
			1/0	1910	25.50	354.81
	5	QPSK	1/0	1852.5	25.10	323.59
			1/0	1882.5	24.70	295.12
			1/0	1912.5	25.80	380.19
		16QAM	1/0	1852.5	24.70	295.12
			1/0	1882.5	24.16	260.62
			1/0	1912.5	25.30	338.84

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE25	3	QPSK	1/0	1851.5	24.70	295.12
			1/0	1882.5	25.44	349.95
			1/0	1913.5	26.66	463.45
		16QAM	1/0	1851.5	24.28	267.92
			1/0	1882.5	24.86	306.2
			1/0	1913.5	26.28	424.62
	1.4	QPSK	1/0	1850.7	24.84	304.44
			1/0	1882.5	24.95	312.61
			1/0	1914.3	25.47	352.05
		16QAM	1/0	1850.7	24.38	274.16
			1/0	1882.5	24.60	288.4
			1/0	1914.3	25.10	323.59

LTE Band 26

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE26	15	QPSK	1/0	831.5	20.96	124.74
			1/0	836.5	21.88	154.17
			1/0	841.5	22.77	189.23
		16QAM	1/0	821.5	21.88	154.17
			1/0	831.5	20.96	124.74
			1/0	841.5	21.90	154.88
	10	QPSK	1/0	819	21.73	148.94
			1/0	831.5	21.60	144.54
			1/0	844	22.80	190.55
		16QAM	1/0	819	20.76	119.12
			1/0	831.5	20.68	116.95
			1/0	844	21.87	153.82
	5	QPSK	1/0	816.5	21.54	142.56
			1/0	831.5	21.63	145.55
			1/0	846.5	22.70	186.21
		16QAM	1/0	816.5	20.50	112.20
			1/0	831.5	20.70	117.49
			1/0	846.5	21.80	151.36
	3	QPSK	1/0	815.5	21.67	146.89
			1/0	831.5	21.79	151.01
			1/0	847.5	22.80	190.55
		16QAM	1/0	815.5	20.80	120.23
			1/0	831.5	20.96	124.74
			1/0	847.5	21.94	156.31
	1.4	QPSK	1/0	814.7	21.48	140.60
			1/0	831.5	21.80	151.36
			1/0	848.3	22.70	186.21
		16QAM	1/0	814.7	20.50	112.20
			1/0	831.5	20.90	123.03
			1/0	848.3	21.70	147.91

LTE Band 41

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE41	20	QPSK	1/0	2506	24.10	257.03
			1/0	2593	24.21	263.38
			1/0	2680	24.43	277.05
		16QAM	1/0	2506	23.38	217.76
			1/0	2593	23.59	228.34
			1/0	2680	23.83	241.3
LTE41	15	QPSK	1/0	2503.5	24.27	267.24
			1/0	2593	24.32	270.14
			1/0	2682.5	25.13	326.02
		16QAM	1/0	2503.5	23.68	233.29
			1/0	2593	23.69	233.66
			1/0	2682.5	24.43	277.49
LTE41	10	QPSK	1/0	2501	24.28	267.75
			1/0	2593	23.61	229.4
			1/0	2685	24.75	298.48
		16QAM	1/0	2501	23.78	238.69
			1/0	2593	23.01	199.8
			1/0	2685	24.18	261.77
LTE41	5	QPSK	1/0	2498.5	24.57	286.67
			1/0	2593	25.09	322.54
			1/0	2687.5	24.35	272.02
		16QAM	1/0	2498.5	23.47	222.52
			1/0	2593	23.91	245.8
			1/0	2687.5	23.25	211.15

11.1.3. ERP/EIRP PLOTS

CDMA

Band BC1	High Frequency Substitution Measurement UL Verification Services Chamber G									
	Company: LG Project #: 15I20413 Date: 4/7/2015 Test Engineer: R.Z Configuration: EUT Only Mode: CDMA EVDO BC1									
	Test Equipment: Receiving: Horn T711, and Chamber G SMA Cables Substitution: Horn T59 Substitution, 6ft SMA Cable									
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
	Low Ch									
	1.8513	15.8	V	0.90	9.20	24.10	33.0	-8.9		
	1.8513	17.2	H	0.90	9.20	25.50	33.0	-7.5		
	Mid Ch									
	1.8800	15.8	V	0.90	9.20	24.10	33.0	-8.9		
	1.8800	17.6	H	0.90	9.20	25.90	33.0	-7.1		
High Ch										
1.9088	16.7	V	0.90	9.10	24.90	33.0	-8.1			
1.9088	18.2	H	0.90	9.10	26.38	33.0	-6.6			
Rev. 3.17.11										

Band BC1 1xRTT	High Frequency Substitution Measurement UL Verification Services Chamber G								
	Company: LG Project #: 15I20413 Date: 4/7/2015 Test Engineer: R.Z Configuration: EUT Only Mode: CDMA RTT BC1								
	Test Equipment: Receiving: Horn T711, and Chamber G SMA Cables Substitution: Horn T59 Substitution, 6ft SMA Cable								
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch								
	1.8513	15.9	V	0.90	9.20	24.20	33.0	-8.8	
	1.8513	17.0	H	0.90	9.20	25.30	33.0	-7.7	
	Mid Ch								
	1.8800	15.9	V	0.90	9.20	24.20	33.0	-8.8	
	1.8800	17.7	H	0.90	9.20	26.00	33.0	-7.0	
High Ch									
1.9088	16.9	V	0.90	9.10	25.06	33.0	-7.9		
1.9088	18.3	H	0.90	9.10	26.50	33.0	-6.5		
Rev. 3.17.11									

Band BC0	High Frequency Substitution Measurement UL Verification Services Chamber G																																																																																																					
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LTE Band 2

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Band LTE2 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.								
	Company: LG Project #: 15I20413 Date: 4/6/2015 Test Engineer: R.Z Configuration: EUT Only Location: Chamber G Mode: LTE_QPSK Band 2 Fundamentals, 10MHz Bandwidth								
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	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1855.00	9.40	V	0.9	9.2	17.70	33.0	-15.3	
	1855.00	16.90	H	0.9	9.2	25.20	33.0	-7.8	
	Mid Ch								
	1880.00	8.90	V	0.9	9.2	17.20	33.0	-15.8	
1880.00	16.70	H	0.9	9.2	25.00	33.0	-8.0		
High Ch									
1905.00	9.87	V	0.9	9.1	18.07	33.0	-14.9		
1905.00	17.90	H	0.9	9.1	26.10	33.0	-6.9		

Band LTE2 5MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																					
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LTE Band 4

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LTE Band 5

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LTE Band 12

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Band LTE25 20MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc.									
	Company: LG Project #: 15I20413 Date: 4/6/2015 Test Engineer: R.Z Configuration: EUT Only Location: Chamber G Mode: LTE_QPSK Band 25 Fundamentals, 20MHz Bandwidth									
	Test Equipment: Receiving: Horn T711, and Chamber G SMA Cables Substitution: Horn T59, 6ft SMA Cable									
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes	
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)		
	Low Ch									
	1860.00	8.10	V	0.9	9.2	16.40	33.0	-16.6		
	1860.00	16.38	H	0.9	9.2	24.68	33.0	-8.3		
	Mid Ch									
	1882.50	9.30	V	0.9	9.2	17.60	33.0	-15.4		
1882.50	16.80	H	0.9	9.2	25.10	33.0	-7.9			
High Ch										
1905.00	10.30	V	0.9	9.1	18.50	33.0	-14.5			
1905.00	18.10	H	0.9	9.1	26.30	33.0	-6.7			

Band LTE25 15MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc.																																																																																																					
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	Test Equipment: Receiving: Horn T711, and Chamber G SMA Cables Substitution: Horn T59, 6ft SMA Cable									
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	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)		
	Low Ch									
	1857.50	8.20	V	0.9	9.2	16.50	33.0	-16.5		
	1857.50	16.50	H	0.9	9.2	24.80	33.0	-8.2		
	Mid Ch									
	1882.50	9.20	V	0.9	9.2	17.50	33.0	-15.5		
1882.50	17.00	H	0.9	9.2	25.30	33.0	-7.7			
High Ch										
1907.50	9.90	V	0.9	9.1	18.10	33.0	-14.9			
1907.50	17.90	H	0.9	9.1	26.10	33.0	-6.9			

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	<table border="1"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBi)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>2498.50</td> <td>15.10</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>23.67</td> <td>33.0</td> <td>-9.3</td> <td></td> </tr> <tr> <td>2498.50</td> <td>16.00</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>24.57</td> <td>33.0</td> <td>-8.4</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>2593.00</td> <td>16.10</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>24.71</td> <td>33.0</td> <td>-8.3</td> <td></td> </tr> <tr> <td>2593.00</td> <td>16.48</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>25.09</td> <td>33.0</td> <td>-7.9</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>2687.50</td> <td>14.40</td> <td>V</td> <td>0.9</td> <td>9.7</td> <td>23.25</td> <td>33.0</td> <td>-9.8</td> <td></td> </tr> <tr> <td>2687.50</td> <td>15.50</td> <td>H</td> <td>0.9</td> <td>9.7</td> <td>24.35</td> <td>33.0</td> <td>-8.7</td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									2498.50	15.10	V	0.9	9.5	23.67	33.0	-9.3		2498.50	16.00	H	0.9	9.5	24.57	33.0	-8.4		Mid Ch									2593.00	16.10	V	0.9	9.5	24.71	33.0	-8.3		2593.00	16.48	H	0.9	9.5	25.09	33.0	-7.9		High Ch									2687.50	14.40	V	0.9	9.7	23.25	33.0	-9.8		2687.50	15.50	H	0.9	9.7	24.35	33.0	-8.7
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																										
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11.2. 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) For mobile station, the attenuation factor shall be not less than $43+10\log(P)$ dB at the channel edge and $(55+10\log(P))$ dB at 5.5MHz from the channel edges.

TEST PROCEDURE

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

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

MODES TESTED

CDMA, LTE

RESULTS

11.2.1. SPURIOUS RADIATION PLOTS

CDMA

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/13/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber G							
Mode:		CDMA EVDO BC1 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, 1851.25									
3702.50	-10.6	V	3.0	35.9	1.0	-45.5	-13.0	-32.5	
5553.75	-21.1	V	3.0	35.5	1.0	-55.6	-13.0	-42.6	
7405.00	-18.8	V	3.0	35.7	1.0	-53.6	-13.0	-40.6	
3702.50	-8.1	H	3.0	35.9	1.0	-43.0	-13.0	-30.0	
5553.75	-21.7	H	3.0	35.5	1.0	-56.1	-13.0	-43.1	
7405.00	-17.4	H	3.0	35.7	1.0	-52.1	-13.0	-39.1	
Mid Ch, 1880									
3760.00	-12.2	V	3.0	35.8	1.0	-47.1	-13.0	-34.1	
5640.00	-20.9	V	3.0	35.5	1.0	-55.4	-13.0	-42.4	
7520.00	-19.4	V	3.0	35.7	1.0	-54.2	-13.0	-41.2	
3760.00	-13.4	H	3.0	35.8	1.0	-48.2	-13.0	-35.2	
5640.00	-21.1	H	3.0	35.5	1.0	-55.6	-13.0	-42.6	
7520.00	-18.6	H	3.0	35.7	1.0	-53.4	-13.0	-40.4	
High Ch, 1908.75									
3817.50	-11.2	V	3.0	35.8	1.0	-46.0	-13.0	-33.0	
5726.25	-20.4	V	3.0	35.5	1.0	-54.9	-13.0	-41.9	
7635.00	-19.0	V	3.0	35.8	1.0	-53.7	-13.0	-40.7	
3817.50	-15.5	H	3.0	35.8	1.0	-50.3	-13.0	-37.3	
5726.25	-20.1	H	3.0	35.5	1.0	-54.6	-13.0	-41.6	
7635.00	-17.2	H	3.0	35.8	1.0	-52.0	-13.0	-39.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/13/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber G							
Mode:		CDMA 1xRTT BC1 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, 1851.25									
3702.50	-4.8	V	3.0	35.9	1.0	-39.7	-13.0	-26.7	
5553.75	-14.5	V	3.0	35.5	1.0	-49.0	-13.0	-36.0	
7405.00	-13.6	V	3.0	35.7	1.0	-48.4	-13.0	-35.4	
BC1									
3702.50	-7.9	H	3.0	35.9	1.0	-42.8	-13.0	-29.8	
5553.75	-14.7	H	3.0	35.5	1.0	-49.1	-13.0	-36.1	
7405.00	-12.3	H	3.0	35.7	1.0	-47.0	-13.0	-34.0	
1xRTT									
Mid Ch, 1880									
3760.00	-11.9	V	3.0	35.8	1.0	-46.7	-13.0	-33.7	
5640.00	-15.6	V	3.0	35.5	1.0	-50.1	-13.0	-37.1	
7520.00	-13.4	V	3.0	35.7	1.0	-48.2	-13.0	-35.2	
3760.00	-18.2	H	3.0	35.8	1.0	-53.0	-13.0	-40.0	
5640.00	-14.4	H	3.0	35.5	1.0	-48.9	-13.0	-35.9	
7520.00	-12.5	H	3.0	35.7	1.0	-47.3	-13.0	-34.3	
High Ch, 1908.75									
3817.50	-17.1	V	3.0	35.8	1.0	-51.9	-13.0	-38.9	
5726.25	-15.6	V	3.0	35.5	1.0	-50.1	-13.0	-37.1	
7635.00	-13.4	V	3.0	35.8	1.0	-48.1	-13.0	-35.1	
3817.50	-16.4	H	3.0	35.8	1.0	-51.2	-13.0	-38.2	
5726.25	-14.6	H	3.0	35.5	1.0	-49.1	-13.0	-36.1	
7635.00	-12.0	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 #:		15I20415							
Date:		4/14/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber G							
Mode:		CDMA EVDO BC0 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, 824.7									
1649.40	-32.3	V	3.0	37.4	1.0	-68.7	-13.0	-55.7	
2474.10	-28.7	V	3.0	36.4	1.0	-64.1	-13.0	-51.1	
3298.80	-26.9	V	3.0	35.8	1.0	-61.7	-13.0	-48.7	
Mid Ch, 836.52									
1673.04	-27.2	V	3.0	37.3	1.0	-63.5	-13.0	-50.5	
2509.56	-20.5	V	3.0	36.4	1.0	-55.9	-13.0	-42.9	
3346.08	-24.6	V	3.0	35.8	1.0	-59.4	-13.0	-46.4	
1673.04	-31.5	H	3.0	37.3	1.0	-67.8	-13.0	-54.8	
2509.56	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
3346.08	-24.7	H	3.0	35.8	1.0	-59.5	-13.0	-46.5	
High Ch, 848.31									
1696.62	-31.2	V	3.0	37.3	1.0	-67.5	-13.0	-54.5	
2544.93	-28.9	V	3.0	36.3	1.0	-64.2	-13.0	-51.2	
3393.24	-26.3	V	3.0	35.7	1.0	-61.0	-13.0	-48.0	
1696.62	-30.2	H	3.0	37.3	1.0	-66.5	-13.0	-53.5	
2544.93	-27.9	H	3.0	36.3	1.0	-63.2	-13.0	-50.2	
3393.24	-25.6	H	3.0	35.7	1.0	-60.3	-13.0	-47.3	

Band
BC0

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/13/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber G							
Mode:		CDMA 1xRTT BC0 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, 824.7									
1649.40	-27.7	V	3.0	37.4	1.0	-64.1	-13.0	-51.1	
2474.10	2.8	V	3.0	36.4	1.0	-32.6	-13.0	-19.6	
3298.80	-20.9	V	3.0	35.8	1.0	-55.7	-13.0	-42.7	
BC0									
1649.40	-27.8	H	3.0	37.4	1.0	-64.2	-13.0	-51.2	
2474.10	4.2	H	3.0	36.4	1.0	-31.2	-13.0	-18.2	
3298.80	-18.9	H	3.0	35.8	1.0	-53.7	-13.0	-40.7	
1xRTT									
Mid Ch, 836.52									
1673.04	-22.4	V	3.0	37.3	1.0	-58.7	-13.0	-45.7	
2509.56	-24.1	V	3.0	36.4	1.0	-59.5	-13.0	-46.5	
3346.08	-20.6	V	3.0	35.8	1.0	-55.4	-13.0	-42.4	
1673.04	-22.6	H	3.0	37.3	1.0	-58.9	-13.0	-45.9	
2509.56	-22.9	H	3.0	36.4	1.0	-58.3	-13.0	-45.3	
3346.08	-21.1	H	3.0	35.8	1.0	-55.9	-13.0	-42.9	
High Ch, 848.31									
1696.62	-26.8	V	3.0	37.3	1.0	-63.1	-13.0	-50.1	
2544.93	-23.8	V	3.0	36.3	1.0	-59.1	-13.0	-46.1	
3393.24	-22.2	V	3.0	35.7	1.0	-56.9	-13.0	-43.9	
1696.62	-24.9	H	3.0	37.3	1.0	-61.2	-13.0	-48.2	
2544.93	-21.5	H	3.0	36.3	1.0	-56.8	-13.0	-43.8	
3393.24	-20.8	H	3.0	35.7	1.0	-55.5	-13.0	-42.5	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20415							
Date:		4/14/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber G							
Mode:		CDMA EVDO BC10 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, 817.9MHz									
1.636	-30.5	V	3.0	37.4	1.0	-66.9	-13.0	-53.9	
2.454	-26.0	V	3.0	36.4	1.0	-61.4	-13.0	-48.4	
3.272	-26.0	V	3.0	35.8	1.0	-60.8	-13.0	-47.8	
1.636	-31.8	H	3.0	37.4	1.0	-68.2	-13.0	-55.2	
2.454	-27.5	H	3.0	36.4	1.0	-62.9	-13.0	-49.9	
3.272	-24.6	H	3.0	35.8	1.0	-59.4	-13.0	-46.4	
Mid Ch, 820.5MHz									
1.641	-31.0	V	3.0	37.3	1.0	-67.3	-13.0	-54.3	
2.462	-26.2	V	3.0	36.4	1.0	-61.6	-13.0	-48.6	
3.282	-25.2	V	3.0	35.8	1.0	-60.0	-13.0	-47.0	
1.641	-29.6	H	3.0	37.3	1.0	-65.9	-13.0	-52.9	
2.462	-25.8	H	3.0	36.4	1.0	-61.2	-13.0	-48.2	
3.282	-25.2	H	3.0	35.8	1.0	-60.0	-13.0	-47.0	
High Ch, 823.1MHz									
1.646	-30.5	V	3.0	37.3	1.0	-66.8	-13.0	-53.8	
2.469	-26.0	V	3.0	36.3	1.0	-61.3	-13.0	-48.3	
3.292	-25.4	V	3.0	35.7	1.0	-60.1	-13.0	-47.1	
1.646	-30.2	H	3.0	37.3	1.0	-66.5	-13.0	-53.5	
2.469	-26.5	H	3.0	36.3	1.0	-61.8	-13.0	-48.8	
3.292	-25.0	H	3.0	35.7	1.0	-59.7	-13.0	-46.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/13/2015							
Test Engineer:		R.Z							
Configuration:		EUT , AC Adapter, Headset							
Location:		Chamber G							
Mode:		CDMA 1xRTT BC10 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, 817.9MHz									
1.636	-23.2	V	3.0	37.4	1.0	-59.6	-13.0	-46.6	
2.454	-22.8	V	3.0	36.4	1.0	-58.2	-13.0	-45.2	
3.272	-21.0	V	3.0	35.8	1.0	-55.8	-13.0	-42.8	
BC10									
1.636	-19.7	H	3.0	37.4	1.0	-56.1	-13.0	-43.1	
2.454	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3	
3.272	-20.6	H	3.0	35.8	1.0	-55.4	-13.0	-42.4	
1xRTT									
Mid Ch, 820.5MHz									
1.641	-22.1	V	3.0	37.3	1.0	-58.4	-13.0	-45.4	
2.462	-24.0	V	3.0	36.4	1.0	-59.4	-13.0	-46.4	
3.282	-21.8	V	3.0	35.8	1.0	-56.6	-13.0	-43.6	
1.641	-27.2	H	3.0	37.3	1.0	-63.5	-13.0	-50.5	
2.462	-22.2	H	3.0	36.4	1.0	-57.6	-13.0	-44.6	
3.282	-21.9	H	3.0	35.8	1.0	-56.7	-13.0	-43.7	
High Ch, 823.1MHz									
1.646	-21.6	V	3.0	37.3	1.0	-57.9	-13.0	-44.9	
2.469	-23.9	V	3.0	36.3	1.0	-59.2	-13.0	-46.2	
3.292	-21.1	V	3.0	35.7	1.0	-55.8	-13.0	-42.8	
1.646	-22.7	H	3.0	37.3	1.0	-59.0	-13.0	-46.0	
2.469	-21.0	H	3.0	36.3	1.0	-56.3	-13.0	-43.3	
3.292	-19.6	H	3.0	35.7	1.0	-54.3	-13.0	-41.3	

LTE Band 2

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 2 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860									
3720.00	-9.2	V	3.0	35.8	1.0	-44.1	-13.0	-31.1	
5580.00	-16.5	V	3.0	35.5	1.0	-51.0	-13.0	-38.0	
7440.00	-14.6	V	3.0	35.7	1.0	-49.4	-13.0	-36.4	
3720.00	-4.8	H	3.0	35.8	1.0	-39.6	-13.0	-26.6	
5580.00	-16.5	H	3.0	35.5	1.0	-51.0	-13.0	-38.0	
7440.00	-14.0	H	3.0	35.7	1.0	-48.8	-13.0	-35.8	
Mid Ch, 1880									
3760.00	-7.3	V	3.0	35.8	1.0	-42.1	-13.0	-29.1	
5640.00	-16.3	V	3.0	35.5	1.0	-50.8	-13.0	-37.8	
7520.00	-14.2	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
3760.00	-10.2	H	3.0	35.8	1.0	-45.0	-13.0	-32.0	
5640.00	-15.6	H	3.0	35.5	1.0	-50.1	-13.0	-37.1	
7520.00	-13.3	H	3.0	35.7	1.0	-48.0	-13.0	-35.0	
High Ch, 1900									
3800.00	-11.1	V	3.0	35.8	1.0	-45.8	-13.0	-32.8	
5700.00	-16.3	V	3.0	35.5	1.0	-50.8	-13.0	-37.8	
7600.00	-14.0	V	3.0	35.8	1.0	-48.8	-13.0	-35.8	
3800.00	-11.4	H	3.0	35.8	1.0	-46.2	-13.0	-33.2	
5700.00	-16.7	H	3.0	35.5	1.0	-51.2	-13.0	-38.2	
7600.00	-13.5	H	3.0	35.8	1.0	-48.2	-13.0	-35.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG Electronics									
Project #:		15I20413									
Date:		4/3/2015									
Test Engineer:		R.Z									
Configuration:		EUT/ AC Charger/ Headset									
Location:		Chamber G									
Mode:		LTE_QPSK Band 2 Harmonics, 20MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band LTE2 20MHz QPSK	Low Ch, 1860										
		3720.00	-8.1	V	3.0	35.8	1.0	-43.0	-13.0	-30.0	
		5580.00	-15.3	V	3.0	35.5	1.0	-49.8	-13.0	-36.8	
		7440.00	-13.7	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
		3720.00	-5.9	H	3.0	35.8	1.0	-40.7	-13.0	-27.7	
		5580.00	-17.6	H	3.0	35.5	1.0	-52.1	-13.0	-39.1	
		7440.00	-13.0	H	3.0	35.7	1.0	-47.8	-13.0	-34.8	
		Mid Ch, 1880									
		3760.00	-9.1	V	3.0	35.8	1.0	-43.9	-13.0	-30.9	
		5640.00	-16.9	V	3.0	35.5	1.0	-51.4	-13.0	-38.4	
		7520.00	-15.1	V	3.0	35.7	1.0	-49.9	-13.0	-36.9	
		3760.00	-12.2	H	3.0	35.8	1.0	-47.0	-13.0	-34.0	
	5640.00	-16.3	H	3.0	35.5	1.0	-50.8	-13.0	-37.8		
	7520.00	-13.1	H	3.0	35.7	1.0	-47.9	-13.0	-34.9		
	High Ch, 1900										
	3800.00	-9.8	V	3.0	35.8	1.0	-44.5	-13.0	-31.5		
	5700.00	-16.8	V	3.0	35.5	1.0	-51.3	-13.0	-38.3		
	7600.00	-13.5	V	3.0	35.8	1.0	-48.3	-13.0	-35.3		
	3800.00	-19.7	H	3.0	35.8	1.0	-54.5	-13.0	-41.5		
	5700.00	-15.2	H	3.0	35.5	1.0	-49.7	-13.0	-36.7		
	7600.00	-13.2	H	3.0	35.8	1.0	-47.9	-13.0	-34.9		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 2 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1857.5									
3715.00	-7.2	V	3.0	35.8	1.0	-42.1	-13.0	-29.1	
5572.50	-17.0	V	3.0	35.5	1.0	-51.5	-13.0	-38.5	
LTE2									
7430.00	-14.7	V	3.0	35.7	1.0	-49.5	-13.0	-36.5	
3715.00	-3.4	H	3.0	35.8	1.0	-38.2	-13.0	-25.2	
5572.50	-17.5	H	3.0	35.5	1.0	-52.0	-13.0	-39.0	
15MHz									
7430.00	-13.1	H	3.0	35.7	1.0	-47.8	-13.0	-34.8	
Mid Ch, 1880									
3760.00	-6.0	V	3.0	35.8	1.0	-40.8	-13.0	-27.8	
16QAM									
5640.00	-16.2	V	3.0	35.5	1.0	-50.7	-13.0	-37.7	
7520.00	-12.6	V	3.0	35.7	1.0	-47.4	-13.0	-34.4	
3760.00	-8.7	H	3.0	35.8	1.0	-43.5	-13.0	-30.5	
5640.00	-14.8	H	3.0	35.5	1.0	-49.3	-13.0	-36.3	
7520.00	-12.2	H	3.0	35.7	1.0	-47.0	-13.0	-34.0	
High Ch, 1902.5									
3805.00	-12.0	V	3.0	35.8	1.0	-46.8	-13.0	-33.8	
5707.50	-16.6	V	3.0	35.5	1.0	-51.1	-13.0	-38.1	
7610.00	-13.1	V	3.0	35.8	1.0	-47.9	-13.0	-34.9	
3805.00	-10.3	H	3.0	35.8	1.0	-45.1	-13.0	-32.1	
5707.50	-15.7	H	3.0	35.5	1.0	-50.2	-13.0	-37.2	
7610.00	-12.5	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 #:		15I20413								
Date:		4/3/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 2 Harmonics, 15MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1857.5									
	3715.00	-7.3	V	3.0	35.8	1.0	-42.2	-13.0	-29.2	
	5572.50	-16.2	V	3.0	35.5	1.0	-50.7	-13.0	-37.7	
LTE2	7430.00	-13.8	V	3.0	35.7	1.0	-48.6	-13.0	-35.6	
	3715.00	-4.9	H	3.0	35.8	1.0	-39.7	-13.0	-26.7	
	5572.50	-16.6	H	3.0	35.5	1.0	-51.1	-13.0	-38.1	
15MHz	7430.00	-13.4	H	3.0	35.7	1.0	-48.1	-13.0	-35.1	
	Mid Ch, 1880									
	3760.00	-8.6	V	3.0	35.8	1.0	-43.4	-13.0	-30.4	
QPSK	5640.00	-16.0	V	3.0	35.5	1.0	-50.5	-13.0	-37.5	
	7520.00	-13.2	V	3.0	35.7	1.0	-48.0	-13.0	-35.0	
	3760.00	-10.5	H	3.0	35.8	1.0	-45.3	-13.0	-32.3	
	5640.00	-16.1	H	3.0	35.5	1.0	-50.6	-13.0	-37.6	
	7520.00	-12.6	H	3.0	35.7	1.0	-47.4	-13.0	-34.4	
	High Ch, 1902.5									
	3805.00	-8.1	V	3.0	35.8	1.0	-42.9	-13.0	-29.9	
	5707.50	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4	
	7610.00	-12.6	V	3.0	35.8	1.0	-47.4	-13.0	-34.4	
	3805.00	-20.2	H	3.0	35.8	1.0	-55.0	-13.0	-42.0	
	5707.50	-14.5	H	3.0	35.5	1.0	-49.0	-13.0	-36.0	
	7610.00	-11.7	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 #:		15I20413							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 2 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE2									
10MHz									
16QAM									
Low Ch, 1855									
3710.00	-7.6	V	3.0	35.9	1.0	-42.5	-13.0	-29.5	
5565.00	-16.8	V	3.0	35.5	1.0	-51.3	-13.0	-38.3	
7420.00	-15.1	V	3.0	35.7	1.0	-49.8	-13.0	-36.8	
3710.00	-5.6	H	3.0	35.9	1.0	-40.5	-13.0	-27.5	
5565.00	-15.3	H	3.0	35.5	1.0	-49.7	-13.0	-36.7	
7420.00	-12.4	H	3.0	35.7	1.0	-47.1	-13.0	-34.1	
Mid Ch, 1880									
3760.00	-8.4	V	3.0	35.8	1.0	-43.2	-13.0	-30.2	
5640.00	-17.4	V	3.0	35.5	1.0	-51.9	-13.0	-38.9	
7520.00	-14.9	V	3.0	35.7	1.0	-49.7	-13.0	-36.7	
3760.00	-7.8	H	3.0	35.8	1.0	-42.6	-13.0	-29.6	
5640.00	-16.1	H	3.0	35.5	1.0	-50.6	-13.0	-37.6	
7520.00	-13.6	H	3.0	35.7	1.0	-48.4	-13.0	-35.4	
High Ch, 1905									
3810.00	-9.9	V	3.0	35.8	1.0	-44.7	-13.0	-31.7	
5715.00	-16.9	V	3.0	35.5	1.0	-51.4	-13.0	-38.4	
7620.00	-13.6	V	3.0	35.8	1.0	-48.3	-13.0	-35.3	
3810.00	-14.4	H	3.0	35.8	1.0	-49.2	-13.0	-36.2	
5715.00	-15.5	H	3.0	35.5	1.0	-50.0	-13.0	-37.0	
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 #:		15I20413								
Date:		4/3/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 2 Harmonics, 10MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1855									
	3710.00	-9.3	V	3.0	35.9	1.0	-44.2	-13.0	-31.2	
	5565.00	-16.3	V	3.0	35.5	1.0	-50.8	-13.0	-37.8	
LTE2	7420.00	-14.3	V	3.0	35.7	1.0	-49.1	-13.0	-36.1	
	3710.00	-7.1	H	3.0	35.9	1.0	-41.9	-13.0	-28.9	
	5565.00	-16.8	H	3.0	35.5	1.0	-51.2	-13.0	-38.2	
10MHz	7420.00	-13.3	H	3.0	35.7	1.0	-48.0	-13.0	-35.0	
QPSK	Mid Ch, 1880									
	3760.00	-8.9	V	3.0	35.8	1.0	-43.7	-13.0	-30.7	
	5640.00	-16.6	V	3.0	35.5	1.0	-51.1	-13.0	-38.1	
	7520.00	-14.1	V	3.0	35.7	1.0	-48.9	-13.0	-35.9	
	3760.00	-5.8	H	3.0	35.8	1.0	-40.6	-13.0	-27.6	
	5640.00	-15.0	H	3.0	35.5	1.0	-49.5	-13.0	-36.5	
	7520.00	-13.2	H	3.0	35.7	1.0	-48.0	-13.0	-35.0	
High Ch, 1905										
	3810.00	-12.3	V	3.0	35.8	1.0	-47.1	-13.0	-34.1	
	5715.00	-16.8	V	3.0	35.5	1.0	-51.3	-13.0	-38.3	
	7620.00	-13.8	V	3.0	35.8	1.0	-48.6	-13.0	-35.6	
	3810.00	-13.7	H	3.0	35.8	1.0	-48.5	-13.0	-35.5	
	5715.00	-16.3	H	3.0	35.5	1.0	-50.8	-13.0	-37.8	
	7620.00	-13.1	H	3.0	35.8	1.0	-47.9	-13.0	-34.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20413								
Date:		4/3/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 2 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1852.5									
	3705.00	-8.3	V	3.0	35.9	1.0	-43.1	-13.0	-30.1	
	5557.50	-17.3	V	3.0	35.5	1.0	-51.7	-13.0	-38.7	
LTE2	7410.00									
	3705.00	-5.6	H	3.0	35.9	1.0	-40.5	-13.0	-27.5	
	5557.50	-15.8	H	3.0	35.5	1.0	-50.2	-13.0	-37.2	
5MHz	7410.00									
	3705.00	-5.6	H	3.0	35.9	1.0	-40.5	-13.0	-27.5	
	5557.50	-15.8	H	3.0	35.5	1.0	-50.2	-13.0	-37.2	
16QAM	Mid Ch, 1880									
	3760.00	-7.9	V	3.0	35.8	1.0	-42.7	-13.0	-29.7	
	5640.00	-16.7	V	3.0	35.5	1.0	-51.2	-13.0	-38.2	
	7520.00	-15.0	V	3.0	35.7	1.0	-49.8	-13.0	-36.8	
	3760.00	-10.3	H	3.0	35.8	1.0	-45.1	-13.0	-32.1	
	5640.00	-15.9	H	3.0	35.5	1.0	-50.4	-13.0	-37.4	
	7520.00	-12.0	H	3.0	35.7	1.0	-46.8	-13.0	-33.8	
	High Ch, 1907.5									
	3815.00	-13.9	V	3.0	35.8	1.0	-48.7	-13.0	-35.7	
	5722.50	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4	
	7630.00	-13.6	V	3.0	35.8	1.0	-48.3	-13.0	-35.3	
	3815.00	-12.4	H	3.0	35.8	1.0	-47.2	-13.0	-34.2	
5722.50	-16.1	H	3.0	35.5	1.0	-50.6	-13.0	-37.6		
7630.00	-13.6	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 Electronics								
Project #:		15I20413								
Date:		4/3/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 2 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1852.5									
	3705.00	-9.4	V	3.0	35.9	1.0	-44.2	-13.0	-31.2	
	5557.50	-16.1	V	3.0	35.5	1.0	-50.6	-13.0	-37.6	
LTE2	7410.00									
	3705.00	-6.5	H	3.0	35.9	1.0	-41.4	-13.0	-28.4	
	5557.50	-16.5	H	3.0	35.5	1.0	-50.9	-13.0	-37.9	
5MHz	7410.00									
	3705.00	-6.5	H	3.0	35.9	1.0	-41.4	-13.0	-28.4	
	5557.50	-16.5	H	3.0	35.5	1.0	-50.9	-13.0	-37.9	
QPSK	Mid Ch, 1880									
	3760.00	-9.5	V	3.0	35.8	1.0	-44.4	-13.0	-31.4	
	5640.00	-16.2	V	3.0	35.5	1.0	-50.7	-13.0	-37.7	
	7520.00	-13.4	V	3.0	35.7	1.0	-48.2	-13.0	-35.2	
	3760.00	-7.7	H	3.0	35.8	1.0	-42.5	-13.0	-29.5	
	5640.00	-16.3	H	3.0	35.5	1.0	-50.8	-13.0	-37.8	
	7520.00	-13.1	H	3.0	35.7	1.0	-47.9	-13.0	-34.9	
	High Ch, 1907.5									
	3815.00	-15.0	V	3.0	35.8	1.0	-49.8	-13.0	-36.8	
	5722.50	-16.3	V	3.0	35.5	1.0	-50.8	-13.0	-37.8	
	7630.00	-15.3	V	3.0	35.8	1.0	-50.0	-13.0	-37.0	
	3815.00	-10.1	H	3.0	35.8	1.0	-44.9	-13.0	-31.9	
5722.50	-15.8	H	3.0	35.5	1.0	-50.3	-13.0	-37.3		
7630.00	-12.8	H	3.0	35.8	1.0	-47.6	-13.0	-34.6		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20413								
Date:		4/3/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_16QAM Band 2 Harmonics, 3MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1851.5									
	3703.00	-7.6	V	3.0	35.9	1.0	-42.4	-13.0	-29.4	
LTE2	5554.50	-16.6	V	3.0	35.5	1.0	-51.1	-13.0	-38.1	
	7406.00	-14.3	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
3MHz	3703.00	-4.3	H	3.0	35.9	1.0	-39.2	-13.0	-26.2	
	5554.50	-16.2	H	3.0	35.5	1.0	-50.7	-13.0	-37.7	
16QAM	7406.00	-13.1	H	3.0	35.7	1.0	-47.8	-13.0	-34.8	
	Mid Ch, 1880									
	3760.00	-6.1	V	3.0	35.8	1.0	-40.9	-13.0	-27.9	
	5640.00	-16.5	V	3.0	35.5	1.0	-51.0	-13.0	-38.0	
	7520.00	-14.4	V	3.0	35.7	1.0	-49.2	-13.0	-36.2	
	3760.00	-7.8	H	3.0	35.8	1.0	-42.6	-13.0	-29.6	
	5640.00	-15.9	H	3.0	35.5	1.0	-50.4	-13.0	-37.4	
	7520.00	-14.0	H	3.0	35.7	1.0	-48.8	-13.0	-35.8	
	High Ch, 1908.5									
	3817.00	-7.3	V	3.0	35.8	1.0	-42.1	-13.0	-29.1	
5725.50	-15.5	V	3.0	35.5	1.0	-50.0	-13.0	-37.0		
7634.00	-12.8	V	3.0	35.8	1.0	-47.5	-13.0	-34.5		
3817.00	-8.4	H	3.0	35.8	1.0	-43.2	-13.0	-30.2		
5725.50	-16.1	H	3.0	35.5	1.0	-50.6	-13.0	-37.6		
7634.00	-13.4	H	3.0	35.8	1.0	-48.2	-13.0	-35.2		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
Company:		LG Electronics									
Project #:		15I20413									
Date:		4/3/2015									
Test Engineer:		R.Z									
Configuration:		EUT/ AC Charger/ Headset									
Location:		Chamber G									
Mode:		LTE_QPSK Band 2 Harmonics, 3MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
Band	Low Ch, 1851.5										
	3703.00	-8.6	V	3.0	35.9	1.0	-43.4	-13.0	-30.4		
	5554.50	-16.9	V	3.0	35.5	1.0	-51.4	-13.0	-38.4		
	LTE2	7406.00	-11.9	V	3.0	35.7	1.0	-46.6	-13.0	-33.6	
		3703.00	-5.1	H	3.0	35.9	1.0	-40.0	-13.0	-27.0	
	3MHz	5554.50	-16.3	H	3.0	35.5	1.0	-50.8	-13.0	-37.8	
7406.00		-13.4	H	3.0	35.7	1.0	-48.1	-13.0	-35.1		
QPSK	Mid Ch, 1880										
	3760.00	-6.9	V	3.0	35.8	1.0	-41.7	-13.0	-28.7		
	5640.00	-17.1	V	3.0	35.5	1.0	-51.6	-13.0	-38.6		
	7520.00	-13.8	V	3.0	35.7	1.0	-48.6	-13.0	-35.6		
	3760.00	-8.3	H	3.0	35.8	1.0	-43.1	-13.0	-30.1		
	5640.00	-16.0	H	3.0	35.5	1.0	-50.5	-13.0	-37.5		
	High Ch, 1908.5										
	3817.00	-9.4	V	3.0	35.8	1.0	-44.2	-13.0	-31.2		
	5725.50	-15.8	V	3.0	35.5	1.0	-50.3	-13.0	-37.3		
	7634.00	-14.1	V	3.0	35.8	1.0	-48.8	-13.0	-35.8		
	3817.00	-7.5	H	3.0	35.8	1.0	-42.3	-13.0	-29.3		
	5725.50	-15.6	H	3.0	35.5	1.0	-50.1	-13.0	-37.1		
	7634.00	-12.5	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 #:		15I20413							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 2 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.7									
Band	3701.40	-8.8	V	3.0	35.9	1.0	-43.6	-13.0	-30.6
	5552.10	-17.0	V	3.0	35.5	1.0	-51.5	-13.0	-38.5
LTE2	7402.80	-13.5	V	3.0	35.7	1.0	-48.2	-13.0	-35.2
	3701.40	-5.2	H	3.0	35.9	1.0	-40.1	-13.0	-27.1
	5552.10	-16.1	H	3.0	35.5	1.0	-50.6	-13.0	-37.6
1.4MHz	7402.80	-11.7	H	3.0	35.7	1.0	-46.4	-13.0	-33.4
Mid Ch, 1880									
16QAM	3760.00	-6.3	V	3.0	35.8	1.0	-44.7	-13.0	-31.7
	5640.00	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4
	7520.00	-13.9	V	3.0	35.7	1.0	-48.7	-13.0	-35.7
	3760.00	-6.4	H	3.0	35.8	1.0	-41.2	-13.0	-28.2
	5640.00	-15.5	H	3.0	35.5	1.0	-50.0	-13.0	-37.0
	7520.00	-13.3	H	3.0	35.7	1.0	-48.0	-13.0	-35.0
High Ch, 1909.3									
	3818.60	-18.1	V	3.0	35.8	1.0	-52.9	-13.0	-39.9
	5727.90	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4
	7637.20	-13.6	V	3.0	35.8	1.0	-48.3	-13.0	-35.3
	3818.60	-19.2	H	3.0	35.8	1.0	-54.0	-13.0	-41.0
	5727.90	-15.3	H	3.0	35.5	1.0	-49.8	-13.0	-36.8
	7637.20	-12.3	H	3.0	35.8	1.0	-47.1	-13.0	-34.1

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 2 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.7									
Band	3701.40	-5.4	V	3.0	35.9	1.0	-40.2	-13.0	-27.2
	5552.10	-16.6	V	3.0	35.5	1.0	-51.1	-13.0	-38.1
LTE2	7402.80	-11.9	V	3.0	35.7	1.0	-46.6	-13.0	-33.6
	3701.40	-6.6	H	3.0	35.9	1.0	-41.5	-13.0	-28.5
	5552.10	-15.4	H	3.0	35.5	1.0	-49.9	-13.0	-36.9
1.4MHz	7402.80	-11.4	H	3.0	35.7	1.0	-46.1	-13.0	-33.1
Mid Ch, 1880									
QPSK	3760.00	-10.1	V	3.0	35.8	1.0	-44.9	-13.0	-31.9
	5640.00	-17.4	V	3.0	35.5	1.0	-51.9	-13.0	-38.9
	7520.00	-13.3	V	3.0	35.7	1.0	-48.1	-13.0	-35.1
	3760.00	-10.4	H	3.0	35.8	1.0	-45.2	-13.0	-32.2
	5640.00	-15.9	H	3.0	35.5	1.0	-50.4	-13.0	-37.4
	7520.00	-13.0	H	3.0	35.7	1.0	-47.8	-13.0	-34.8
High Ch, 1909.3									
	3818.60	-17.7	V	3.0	35.8	1.0	-52.5	-13.0	-39.5
	5727.90	-15.7	V	3.0	35.5	1.0	-50.2	-13.0	-37.2
	7637.20	-13.5	V	3.0	35.8	1.0	-48.2	-13.0	-35.2
	3818.60	-19.2	H	3.0	35.8	1.0	-54.0	-13.0	-41.0
	5727.90	-15.5	H	3.0	35.5	1.0	-50.0	-13.0	-37.0
	7637.20	-12.6	H	3.0	35.8	1.0	-47.4	-13.0	-34.4

LTE Band 4

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/10/2015							
Test Engineer:		R.Z							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 4 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1720									
Band	3440.00	1.5	V	3.0	36.0	1.0	-33.6	-13.0	-20.6
	5160.00	-11.5	V	3.0	35.4	1.0	-45.9	-13.0	-32.9
LTE4	6880.00	-14.7	V	3.0	35.7	1.0	-49.4	-13.0	-36.4
	3440.00	4.4	H	3.0	36.0	1.0	-30.6	-13.0	-17.6
20MHz	5160.00	-12.9	H	3.0	35.4	1.0	-47.3	-13.0	-34.3
	6880.00	-13.1	H	3.0	35.7	1.0	-47.8	-13.0	-34.8
Mid Ch, 1732.5									
16QAM	3465.00	5.6	V	3.0	36.0	1.0	-29.5	-13.0	-16.5
	5197.50	-11.7	V	3.0	35.4	1.0	-46.1	-13.0	-33.1
	6930.00	-14.5	V	3.0	35.7	1.0	-49.1	-13.0	-36.1
	3465.00	-3.9	H	3.0	36.0	1.0	-39.0	-13.0	-26.0
	5197.50	-12.6	H	3.0	35.4	1.0	-47.0	-13.0	-34.0
	6930.00	-13.3	H	3.0	35.7	1.0	-48.0	-13.0	-35.0
High Ch, 1745									
	3490.00	6.8	V	3.0	36.0	1.0	-28.2	-13.0	-15.2
	5235.00	-12.2	V	3.0	35.4	1.0	-46.6	-13.0	-33.6
	6980.00	-15.2	V	3.0	35.7	1.0	-49.9	-13.0	-36.9
	3490.00	4.8	H	3.0	36.0	1.0	-30.2	-13.0	-17.2
	5235.00	-11.2	H	3.0	35.4	1.0	-45.7	-13.0	-32.7
	6980.00	-12.9	H	3.0	35.7	1.0	-47.6	-13.0	-34.6

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/10/2015							
Test Engineer:		R.Z							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 4 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1720									
Band	3440.00	6.7	V	3.0	36.0	1.0	-28.4	-13.0	-15.4
	5160.00	-10.7	V	3.0	35.4	1.0	-45.1	-13.0	-32.1
LTE4	6880.00	-14.7	V	3.0	35.7	1.0	-49.4	-13.0	-36.4
	3440.00	5.9	H	3.0	36.0	1.0	-29.1	-13.0	-16.1
	5160.00	-13.1	H	3.0	35.4	1.0	-47.5	-13.0	-34.5
20MHz	6880.00	-13.5	H	3.0	35.7	1.0	-48.2	-13.0	-35.2
Mid Ch, 1732.5									
QPSK	3465.00	-4.4	V	3.0	36.0	1.0	-39.5	-13.0	-26.5
	5197.50	-13.2	V	3.0	35.4	1.0	-47.6	-13.0	-34.6
	6930.00	-14.5	V	3.0	35.7	1.0	-49.1	-13.0	-36.1
	3465.00	-3.0	H	3.0	36.0	1.0	-38.1	-13.0	-25.1
	5197.50	-9.3	H	3.0	35.4	1.0	-43.7	-13.0	-30.7
	6930.00	-13.3	H	3.0	35.7	1.0	-48.0	-13.0	-35.0
High Ch, 1745									
	3490.00	1.6	V	3.0	36.0	1.0	-33.4	-13.0	-20.4
	5235.00	-11.8	V	3.0	35.4	1.0	-46.2	-13.0	-33.2
	6980.00	-14.5	V	3.0	35.7	1.0	-49.2	-13.0	-36.2
	3490.00	4.4	H	3.0	36.0	1.0	-30.6	-13.0	-17.6
	5235.00	-12.5	H	3.0	35.4	1.0	-47.0	-13.0	-34.0
	6980.00	-12.8	H	3.0	35.7	1.0	-47.5	-13.0	-34.5

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/10/2015							
Test Engineer:		R.Z							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 4 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE4									
15MHz									
16QAM									
Low Ch, 1717.5									
3435.00	2.7	V	3.0	36.1	1.0	-32.4	-13.0	-19.4	
5152.50	-10.9	V	3.0	35.4	1.0	-45.4	-13.0	-32.4	
6870.00	-14.5	V	3.0	35.7	1.0	-49.2	-13.0	-36.2	
3435.00	5.2	H	3.0	36.1	1.0	-29.8	-13.0	-16.8	
5152.50	-13.7	H	3.0	35.4	1.0	-48.1	-13.0	-35.1	
6870.00	-13.1	H	3.0	35.7	1.0	-47.8	-13.0	-34.8	
Mid Ch, 1732.5									
3465.00	-1.5	V	3.0	36.0	1.0	-36.6	-13.0	-23.6	
5197.50	-11.1	V	3.0	35.4	1.0	-45.5	-13.0	-32.5	
6930.00	-13.8	V	3.0	35.7	1.0	-48.4	-13.0	-35.4	
3465.00	-2.9	H	3.0	36.0	1.0	-38.0	-13.0	-25.0	
5197.50	-9.8	H	3.0	35.4	1.0	-44.2	-13.0	-31.2	
6930.00	-13.2	H	3.0	35.7	1.0	-47.9	-13.0	-34.9	
High Ch, 1747.5									
3495.00	7.8	V	3.0	36.0	1.0	-27.2	-13.0	-14.2	
5242.50	-11.5	V	3.0	35.4	1.0	-45.9	-13.0	-32.9	
6990.00	-15.2	V	3.0	35.7	1.0	-49.9	-13.0	-36.9	
3495.00	7.3	H	3.0	36.0	1.0	-27.7	-13.0	-14.7	
5242.50	-11.3	H	3.0	35.4	1.0	-45.8	-13.0	-32.8	
6990.00	-13.2	H	3.0	35.7	1.0	-47.9	-13.0	-34.9	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/10/2015							
Test Engineer:		R.Z							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 4 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1717.5									
Band	3435.00	5.7	V	3.0	36.1	1.0	-29.4	-13.0	-16.4
	5152.50	-11.0	V	3.0	35.4	1.0	-45.4	-13.0	-32.4
LTE4	6870.00	-14.9	V	3.0	35.7	1.0	-49.6	-13.0	-36.6
	3435.00	6.6	H	3.0	36.1	1.0	-28.4	-13.0	-15.4
	5152.50	-12.7	H	3.0	35.4	1.0	-47.1	-13.0	-34.1
15MHz	6870.00	-13.9	H	3.0	35.7	1.0	-48.6	-13.0	-35.6
Mid Ch, 1732.5									
QPSK	3465.00	-2.6	V	3.0	36.0	1.0	-37.7	-13.0	-24.7
	5197.50	-11.6	V	3.0	35.4	1.0	-46.0	-13.0	-33.0
	6930.00	-12.3	V	3.0	35.7	1.0	-46.9	-13.0	-33.9
	3465.00	-0.7	H	3.0	36.0	1.0	-35.7	-13.0	-22.7
	5197.50	-9.9	H	3.0	35.4	1.0	-44.3	-13.0	-31.3
	6930.00	-13.2	H	3.0	35.7	1.0	-47.9	-13.0	-34.9
High Ch, 1747.5									
	3495.00	3.4	V	3.0	36.0	1.0	-31.6	-13.0	-18.6
	5242.50	-11.9	V	3.0	35.4	1.0	-46.3	-13.0	-33.3
	6990.00	-14.3	V	3.0	35.7	1.0	-49.0	-13.0	-36.0
	3495.00	5.3	H	3.0	36.0	1.0	-29.7	-13.0	-16.7
	5242.50	-11.5	H	3.0	35.4	1.0	-46.0	-13.0	-33.0
	6990.00	-12.5	H	3.0	35.7	1.0	-47.2	-13.0	-34.2

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/10/2015							
Test Engineer:		R.Z							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 4 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1715									
Band	3430.00	3.9	V	3.0	36.1	1.0	-31.2	-13.0	-18.2
	5145.00	-10.8	V	3.0	35.4	1.0	-45.3	-13.0	-32.3
LTE4	6860.00	-15.2	V	3.0	35.7	1.0	-49.8	-13.0	-36.8
	3430.00	8.4	H	3.0	36.1	1.0	-26.7	-13.0	-13.7
	5145.00	-11.1	H	3.0	35.4	1.0	-45.6	-13.0	-32.6
10MHz	6860.00	-12.9	H	3.0	35.7	1.0	-47.6	-13.0	-34.6
Mid Ch, 1732.5									
16QAM	3465.00	-4.3	V	3.0	36.0	1.0	-39.4	-13.0	-26.4
	5197.50	-11.6	V	3.0	35.4	1.0	-46.0	-13.0	-33.0
	6930.00	-14.5	V	3.0	35.7	1.0	-49.1	-13.0	-36.1
	3465.00	-0.3	H	3.0	36.0	1.0	-35.3	-13.0	-22.3
	5197.50	-10.5	H	3.0	35.4	1.0	-44.9	-13.0	-31.9
	6930.00	-13.5	H	3.0	35.7	1.0	-48.2	-13.0	-35.2
High Ch, 1750									
	3500.00	0.1	V	3.0	36.0	1.0	-34.9	-13.0	-21.9
	5250.00	-11.6	V	3.0	35.4	1.0	-46.1	-13.0	-33.1
	7000.00	-14.4	V	3.0	35.7	1.0	-49.1	-13.0	-36.1
	3500.00	4.7	H	3.0	36.0	1.0	-30.3	-13.0	-17.3
	5250.00	-14.3	H	3.0	35.4	1.0	-48.7	-13.0	-35.7
	7000.00	-12.9	H	3.0	35.7	1.0	-47.6	-13.0	-34.6

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/10/2015							
Test Engineer:		R.Z							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 4 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1715									
Band	3430.00	5.1	V	3.0	36.1	1.0	-30.0	-13.0	-17.0
	5145.00	-10.4	V	3.0	35.4	1.0	-44.9	-13.0	-31.9
LTE4	6860.00	-14.6	V	3.0	35.7	1.0	-49.2	-13.0	-36.2
	3430.00	6.8	H	3.0	36.1	1.0	-28.3	-13.0	-15.3
	5145.00	-14.9	H	3.0	35.4	1.0	-49.4	-13.0	-36.4
10MHz	6860.00	-13.7	H	3.0	35.7	1.0	-48.4	-13.0	-35.4
Mid Ch, 1732.5									
QPSK	3465.00	-0.9	V	3.0	36.0	1.0	-36.0	-13.0	-23.0
	5197.50	-11.8	V	3.0	35.4	1.0	-46.2	-13.0	-33.2
	6930.00	-14.6	V	3.0	35.7	1.0	-49.2	-13.0	-36.2
	3465.00	-3.0	H	3.0	36.0	1.0	-38.1	-13.0	-25.1
	5197.50	-11.0	H	3.0	35.4	1.0	-45.4	-13.0	-32.4
	6930.00	-13.1	H	3.0	35.7	1.0	-47.8	-13.0	-34.8
High Ch, 1750									
	3500.00	1.5	V	3.0	36.0	1.0	-33.5	-13.0	-20.5
	5250.00	-12.2	V	3.0	35.4	1.0	-46.6	-13.0	-33.6
	7000.00	-14.7	V	3.0	35.7	1.0	-49.4	-13.0	-36.4
	3500.00	4.9	H	3.0	36.0	1.0	-30.1	-13.0	-17.1
	5250.00	-12.6	H	3.0	35.4	1.0	-47.0	-13.0	-34.0
	7000.00	-13.3	H	3.0	35.7	1.0	-48.0	-13.0	-35.0

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/10/2015							
Test Engineer:		R.Z							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 4 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1712.5									
3425.00	3.9	V	3.0	36.1	1.0	-31.2	-13.0	-18.2	
5137.50	-10.6	V	3.0	35.4	1.0	-45.0	-13.0	-32.0	
LTE4									
6850.00	-14.4	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
3425.00	5.6	H	3.0	36.1	1.0	-29.4	-13.0	-16.4	
5137.50	-12.7	H	3.0	35.4	1.0	-47.1	-13.0	-34.1	
5MHz									
6850.00	-12.9	H	3.0	35.7	1.0	-47.5	-13.0	-34.5	
16QAM									
Mid Ch, 1732.5									
3465.00	-1.3	V	3.0	36.0	1.0	-36.4	-13.0	-23.4	
5197.50	-10.5	V	3.0	35.4	1.0	-44.9	-13.0	-31.9	
6930.00	-14.1	V	3.0	35.7	1.0	-48.7	-13.0	-35.7	
3465.00	-2.0	H	3.0	36.0	1.0	-37.0	-13.0	-24.0	
5197.50	-11.2	H	3.0	35.4	1.0	-45.6	-13.0	-32.6	
6930.00	-13.6	H	3.0	35.7	1.0	-48.3	-13.0	-35.3	
High Ch, 1752.5									
3505.00	-3.5	V	3.0	36.0	1.0	-38.5	-13.0	-25.5	
5257.50	-10.1	V	3.0	35.4	1.0	-44.6	-13.0	-31.6	
7010.00	-14.0	V	3.0	35.7	1.0	-48.7	-13.0	-35.7	
3505.00	3.0	H	3.0	36.0	1.0	-32.0	-13.0	-19.0	
5257.50	-11.5	H	3.0	35.4	1.0	-45.9	-13.0	-32.9	
7010.00	-13.0	H	3.0	35.7	1.0	-47.7	-13.0	-34.7	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/10/2015							
Test Engineer:		R.Z							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 4 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1712.5									
Band	3425.00	3.3	V	3.0	36.1	1.0	-31.8	-13.0	-18.8
	5137.50	-12.3	V	3.0	35.4	1.0	-46.7	-13.0	-33.7
LTE4	6850.00	-15.0	V	3.0	35.7	1.0	-49.6	-13.0	-36.6
	3425.00	6.3	H	3.0	36.1	1.0	-28.8	-13.0	-15.8
	5137.50	-12.5	H	3.0	35.4	1.0	-46.9	-13.0	-33.9
5MHz	6850.00	-12.6	H	3.0	35.7	1.0	-47.2	-13.0	-34.2
Mid Ch, 1732.5									
QPSK	3465.00	-2.6	V	3.0	36.0	1.0	-37.7	-13.0	-24.7
	5197.50	-10.2	V	3.0	35.4	1.0	-44.6	-13.0	-31.6
	6930.00	-14.6	V	3.0	35.7	1.0	-49.3	-13.0	-36.3
	3465.00	0.6	H	3.0	36.0	1.0	-34.5	-13.0	-21.5
	5197.50	-10.3	H	3.0	35.4	1.0	-44.7	-13.0	-31.7
	6930.00	-13.6	H	3.0	35.7	1.0	-48.3	-13.0	-35.3
High Ch, 1752.5									
	3505.00	2.1	V	3.0	36.0	1.0	-32.9	-13.0	-19.9
	5257.50	-12.6	V	3.0	35.4	1.0	-47.1	-13.0	-34.1
	7010.00	-14.2	V	3.0	35.7	1.0	-48.9	-13.0	-35.9
	3505.00	0.9	H	3.0	36.0	1.0	-34.1	-13.0	-21.1
	5257.50	-4.7	H	3.0	35.4	1.0	-39.1	-13.0	-26.1
	7010.00	-11.5	H	3.0	35.7	1.0	-46.2	-13.0	-33.2

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/10/2015							
Test Engineer:		R.Z							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 4 Harmonics, 3MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1711.5									
3423.00	5.6	V	3.0	36.1	1.0	-29.5	-13.0	-16.5	
5134.50	-11.3	V	3.0	35.4	1.0	-45.7	-13.0	-32.7	
LTE4									
6846.00	-14.5	V	3.0	35.7	1.0	-49.1	-13.0	-36.1	
3423.00	3.9	H	3.0	36.1	1.0	-31.2	-13.0	-18.2	
5134.50	-13.4	H	3.0	35.4	1.0	-47.8	-13.0	-34.8	
3MHz									
6846.00	-12.6	H	3.0	35.7	1.0	-47.2	-13.0	-34.2	
16QAM									
Mid Ch, 1732.5									
3465.00	-1.5	V	3.0	36.0	1.0	-36.6	-13.0	-23.6	
5197.50	-11.4	V	3.0	35.4	1.0	-45.8	-13.0	-32.8	
6930.00	-14.1	V	3.0	35.7	1.0	-48.7	-13.0	-35.7	
3465.00	-1.4	H	3.0	36.0	1.0	-36.4	-13.0	-23.4	
5197.50	-10.2	H	3.0	35.4	1.0	-44.6	-13.0	-31.6	
6930.00	-12.7	H	3.0	35.7	1.0	-47.4	-13.0	-34.4	
High Ch, 1753.5									
3507.00	-1.8	V	3.0	36.0	1.0	-36.8	-13.0	-23.8	
5260.50	-13.6	V	3.0	35.4	1.0	-48.1	-13.0	-35.1	
7014.00	-13.5	V	3.0	35.7	1.0	-48.2	-13.0	-35.2	
3507.00	-2.0	H	3.0	36.0	1.0	-37.0	-13.0	-24.0	
5260.50	-15.5	H	3.0	35.4	1.0	-49.9	-13.0	-36.9	
7014.00	-12.3	H	3.0	35.7	1.0	-47.0	-13.0	-34.0	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20413								
Date:		4/10/2015								
Test Engineer:		R.Z								
Configuration:		X-pos EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 4 Harmonics, 3MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1711.5									
	3423.00	4.8	V	3.0	36.1	1.0	-30.2	-13.0	-17.2	
	5134.50	-10.7	V	3.0	35.4	1.0	-45.1	-13.0	-32.1	
LTE4	6846.00	-14.3	V	3.0	35.7	1.0	-48.9	-13.0	-35.9	
	3423.00	6.2	H	3.0	36.1	1.0	-28.9	-13.0	-15.9	
	5134.50	-12.3	H	3.0	35.4	1.0	-46.7	-13.0	-33.7	
3MHz	6846.00	-12.4	H	3.0	35.7	1.0	-47.0	-13.0	-34.0	
	Mid Ch, 1732.5									
	3465.00	-4.0	V	3.0	36.0	1.0	-39.1	-13.0	-26.1	
QPSK	5197.50	-11.8	V	3.0	35.4	1.0	-46.2	-13.0	-33.2	
	6930.00	-15.5	V	3.0	35.7	1.0	-50.1	-13.0	-37.1	
	3465.00	-1.2	H	3.0	36.0	1.0	-36.2	-13.0	-23.2	
	5197.50	-9.3	H	3.0	35.4	1.0	-43.7	-13.0	-30.7	
	6930.00	-12.9	H	3.0	35.7	1.0	-47.6	-13.0	-34.6	
	High Ch, 1753.5									
	3507.00	1.0	V	3.0	36.0	1.0	-34.0	-13.0	-21.0	
	5260.50	-13.9	V	3.0	35.4	1.0	-48.4	-13.0	-35.4	
	7014.00	-14.4	V	3.0	35.7	1.0	-49.1	-13.0	-36.1	
	3507.00	-1.0	H	3.0	36.0	1.0	-36.0	-13.0	-23.0	
	5260.50	-13.6	H	3.0	35.4	1.0	-48.0	-13.0	-35.0	
	7014.00	-11.6	H	3.0	35.7	1.0	-46.3	-13.0	-33.3	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/10/2015							
Test Engineer:		R.Z							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 4 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1710.7									
3421.40	2.4	V	3.0	36.1	1.0	-32.6	-13.0	-19.6	-42.0
5132.10	-10.5	V	3.0	35.4	1.0	-44.9	-13.0	-31.9	-59.1
6842.80	-14.1	V	3.0	35.7	1.0	-48.7	-13.0	-35.7	-64.7
1.4MHz									
3421.40	3.5	H	3.0	36.1	1.0	-31.6	-13.0	-18.6	-40.9
5132.10	-6.3	H	3.0	35.4	1.0	-40.7	-13.0	-27.7	-55.5
6842.80	-11.2	H	3.0	35.7	1.0	-45.8	-13.0	-32.8	-63.4
Mid Ch, 1732.5									
3465.00	-2.6	V	3.0	36.0	1.0	-37.7	-13.0	-24.7	-47.2
5197.50	-10.1	V	3.0	35.4	1.0	-44.5	-13.0	-31.5	-58.9
6930.00	-13.8	V	3.0	35.7	1.0	-48.4	-13.0	-35.4	-64.5
3465.00	-0.4	H	3.0	36.0	1.0	-35.4	-13.0	-22.4	-44.9
5197.50	-10.6	H	3.0	35.4	1.0	-45.0	-13.0	-32.0	-60.0
6930.00	-11.6	H	3.0	35.7	1.0	-46.3	-13.0	-33.3	-64.0
High Ch, 1754.3									
3508.60	-2.2	V	3.0	36.0	1.0	-37.2	-13.0	-24.2	-46.9
5262.90	-12.1	V	3.0	35.4	1.0	-46.5	-13.0	-33.5	-61.0
7017.20	-14.9	V	3.0	35.7	1.0	-49.6	-13.0	-36.6	-65.7
3508.60	0.4	H	3.0	36.0	1.0	-34.5	-13.0	-21.5	-44.2
5262.90	-12.7	H	3.0	35.4	1.0	-47.1	-13.0	-34.1	-62.2
7017.20	-11.8	H	3.0	35.7	1.0	-46.5	-13.0	-33.5	-64.3

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/10/2015							
Test Engineer:		R.Z							
Configuration:		X-pos EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 4 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1710.7									
3421.40	4.0	V	3.0	36.1	1.0	-31.1	-13.0	-18.1	
5132.10	-11.3	V	3.0	35.4	1.0	-45.7	-13.0	-32.7	
LTE4									
6842.80	-13.4	V	3.0	35.7	1.0	-48.0	-13.0	-35.0	
3421.40	5.0	H	3.0	36.1	1.0	-30.1	-13.0	-17.1	
5132.10	-12.3	H	3.0	35.4	1.0	-46.7	-13.0	-33.7	
1.4MHz									
6842.80	-12.6	H	3.0	35.7	1.0	-47.2	-13.0	-34.2	
QPSK									
Mid Ch, 1732.5									
3465.00	-1.7	V	3.0	36.0	1.0	-36.7	-13.0	-23.7	
5197.50	-8.8	V	3.0	35.4	1.0	-43.2	-13.0	-30.2	
6930.00	-14.3	V	3.0	35.7	1.0	-48.9	-13.0	-35.9	
3465.00	-0.1	H	3.0	36.0	1.0	-35.1	-13.0	-22.1	
5197.50	-10.0	H	3.0	35.4	1.0	-44.4	-13.0	-31.4	
6930.00	-9.5	H	3.0	35.7	1.0	-44.2	-13.0	-31.2	
High Ch, 1754.3									
3508.60	-0.6	V	3.0	36.0	1.0	-35.6	-13.0	-22.6	
5262.90	-15.3	V	3.0	35.4	1.0	-49.8	-13.0	-36.8	
7017.20	-14.6	V	3.0	35.7	1.0	-49.3	-13.0	-36.3	
3508.60	1.0	H	3.0	36.0	1.0	-34.0	-13.0	-21.0	
5262.90	-5.4	H	3.0	35.4	1.0	-39.8	-13.0	-26.8	
7017.20	-12.0	H	3.0	35.7	1.0	-46.7	-13.0	-33.7	

LTE Band 5

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/14/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 5 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 829									
1658.00	-33.2	V	3.0	37.0	1.0	-69.3	-13.0	-56.3	
2487.00	-28.0	V	3.0	36.4	1.0	-63.4	-13.0	-50.4	
LTES									
3316.00	-26.2	V	3.0	36.2	1.0	-61.4	-13.0	-48.4	
1658.00	-34.3	H	3.0	37.0	1.0	-70.3	-13.0	-57.3	
2487.00	-29.3	H	3.0	36.4	1.0	-64.7	-13.0	-51.7	
3316.00	-26.5	H	3.0	36.2	1.0	-61.7	-13.0	-48.7	
10MHz									
Mid Ch, 836.5									
16QAM									
1673.00	-31.4	V	3.0	37.0	1.0	-67.4	-13.0	-54.4	
2509.50	-22.2	V	3.0	36.4	1.0	-57.6	-13.0	-44.6	
3346.00	-24.7	V	3.0	36.1	1.0	-59.8	-13.0	-46.8	
1673.00	-32.2	H	3.0	37.0	1.0	-68.2	-13.0	-55.2	
2509.50	-24.7	H	3.0	36.4	1.0	-60.1	-13.0	-47.1	
3346.00	-26.5	H	3.0	36.1	1.0	-61.6	-13.0	-48.6	
High Ch, 844									
1688.00	-32.7	V	3.0	37.0	1.0	-68.7	-13.0	-55.7	
2532.00	-23.7	V	3.0	36.4	1.0	-59.1	-13.0	-46.1	
3376.00	-25.3	V	3.0	36.1	1.0	-60.4	-13.0	-47.4	
1688.00	-27.2	H	3.0	37.0	1.0	-63.2	-13.0	-50.2	
2532.00	-25.5	H	3.0	36.4	1.0	-60.9	-13.0	-47.9	
3376.00	-26.7	H	3.0	36.1	1.0	-61.8	-13.0	-48.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20413								
Date:		4/14/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 5 Harmonics, 10MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 829									
	1658.00	-32.8	V	3.0	37.0	1.0	-68.9	-13.0	-55.9	
	2487.00	-28.5	V	3.0	36.4	1.0	-63.9	-13.0	-50.9	
LTE5	3316.00	-25.8	V	3.0	36.2	1.0	-61.0	-13.0	-48.0	
	1658.00	-33.8	H	3.0	37.0	1.0	-69.8	-13.0	-56.8	
	2487.00	-28.9	H	3.0	36.4	1.0	-64.4	-13.0	-51.4	
10MHz	3316.00	-27.1	H	3.0	36.2	1.0	-62.3	-13.0	-49.3	
QPSK	Mid Ch, 836.5									
	1673.00	-31.7	V	3.0	37.0	1.0	-67.7	-13.0	-54.7	
	2509.50	-24.0	V	3.0	36.4	1.0	-59.4	-13.0	-46.4	
	3346.00	-25.5	V	3.0	36.1	1.0	-60.6	-13.0	-47.6	
	1673.00	-31.7	H	3.0	37.0	1.0	-67.7	-13.0	-54.7	
	2509.50	-25.6	H	3.0	36.4	1.0	-61.0	-13.0	-48.0	
	High Ch, 844									
	3346.00	-26.0	H	3.0	36.1	1.0	-61.1	-13.0	-48.1	
	1688.00	-32.0	V	3.0	37.0	1.0	-68.0	-13.0	-55.0	
	2532.00	-23.4	V	3.0	36.4	1.0	-58.8	-13.0	-45.8	
	3376.00	112.8	V	3.0	36.1	1.0	77.7	-13.0	90.7	
	1688.00	-26.8	H	3.0	37.0	1.0	-62.8	-13.0	-49.8	
	2532.00	-23.7	H	3.0	36.4	1.0	-59.1	-13.0	-46.1	
	3376.00	-25.6	H	3.0	36.1	1.0	-60.7	-13.0	-47.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement												
Company:		LG Electronics										
Project #:		15I20413										
Date:		4/13/2015										
Test Engineer:		R.Z										
Configuration:		EUT/ AC Charger/ Headset										
Location:		Chamber G										
Mode:		LTE_16QAM Band 5 Harmonics, 5MHz Bandwidth										
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Band	Low Ch, 826.5											
		1653.00	-28.7	V	3.0	37.0	1.0	-64.7	-13.0	-51.7		
		2479.50	-3.2	V	3.0	36.4	1.0	-38.7	-13.0	-25.7		
	LTE5	3306.00	-21.8	V	3.0	36.2	1.0	-56.9	-13.0	-43.9		
		1653.00	-28.1	H	3.0	37.0	1.0	-64.2	-13.0	-51.2		
	5MHz	2479.50	-17.2	H	3.0	36.4	1.0	-52.6	-13.0	-39.6		
		3306.00	-21.9	H	3.0	36.2	1.0	-57.0	-13.0	-44.0		
	16QAM	Mid Ch, 836.5										
			1673.00	-26.8	V	3.0	37.0	1.0	-62.8	-13.0	-49.8	
			2509.50	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
			3346.00	-22.0	V	3.0	36.1	1.0	-57.1	-13.0	-44.1	
			1673.00	-28.3	H	3.0	37.0	1.0	-64.3	-13.0	-51.3	
		2509.50	-24.8	H	3.0	36.4	1.0	-60.2	-13.0	-47.2		
		3346.00	-21.8	H	3.0	36.1	1.0	-56.9	-13.0	-43.9		
		High Ch, 846.5										
	1693.00	-27.3	V	3.0	37.0	1.0	-63.3	-13.0	-50.3			
	2539.50	-23.3	V	3.0	36.4	1.0	-58.8	-13.0	-45.8			
	3386.00	-21.1	V	3.0	36.1	1.0	-56.2	-13.0	-43.2			
	1693.00	-27.1	H	3.0	37.0	1.0	-63.1	-13.0	-50.1			
	2539.50	-20.7	H	3.0	36.4	1.0	-56.1	-13.0	-43.1			
	3386.00	-21.7	H	3.0	36.1	1.0	-56.8	-13.0	-43.8			

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20413								
Date:		4/13/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 5 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 826.5									
	1653.00	-27.6	V	3.0	37.0	1.0	-63.6	-13.0	-50.6	
	2479.50	-19.9	V	3.0	36.4	1.0	-55.4	-13.0	-42.4	
LTE5	3306.00	-21.4	V	3.0	36.2	1.0	-56.5	-13.0	-43.5	
	1653.00	-26.9	H	3.0	37.0	1.0	-63.0	-13.0	-50.0	
	2479.50	-14.4	H	3.0	36.4	1.0	-49.8	-13.0	-36.8	
5MHz	3306.00	-22.5	H	3.0	36.2	1.0	-57.6	-13.0	-44.6	
	Mid Ch, 836.5									
QPSK	1673.00	-26.6	V	3.0	37.0	1.0	-62.6	-13.0	-49.6	
	2509.50	-24.3	V	3.0	36.4	1.0	-59.7	-13.0	-46.7	
	3346.00	-21.0	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
	1673.00	-25.8	H	3.0	37.0	1.0	-61.8	-13.0	-48.8	
	2509.50	-23.1	H	3.0	36.4	1.0	-58.5	-13.0	-45.5	
	3346.00	-21.1	H	3.0	36.1	1.0	-56.2	-13.0	-43.2	
	High Ch, 846.5									
	1693.00	-27.6	V	3.0	37.0	1.0	-63.6	-13.0	-50.6	
	2539.50	-23.1	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
	3386.00	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7	
	1693.00	-26.1	H	3.0	37.0	1.0	-62.1	-13.0	-49.1	
	2539.50	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3	
	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 #:		15I20413										
Date:		4/13/2015										
Test Engineer:		R.Z										
Configuration:		EUT/ AC Charger/ Headset										
Location:		Chamber G										
Mode:		LTE_16QAM Band 5 Harmonics, 3MHz Bandwidth										
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Band	Low Ch, 825.5											
		1651.00	-27.5	V	3.0	37.0	1.0	-63.6	-13.0	-50.6		
		2476.50	-19.0	V	3.0	36.4	1.0	-54.4	-13.0	-41.4		
	LTE5	3302.00	-21.9	V	3.0	36.2	1.0	-57.1	-13.0	-44.1		
		1651.00	-27.5	H	3.0	37.0	1.0	-63.6	-13.0	-50.6		
	3MHz	2476.50	-19.1	H	3.0	36.4	1.0	-54.5	-13.0	-41.5		
		3302.00	-22.1	H	3.0	36.2	1.0	-57.3	-13.0	-44.3		
	16QAM	Mid Ch, 836.5										
			1673.00	-29.7	V	3.0	37.0	1.0	-65.7	-13.0	-52.7	
			2509.50	-18.4	V	3.0	36.4	1.0	-53.8	-13.0	-40.8	
			3346.00	-19.7	V	3.0	36.1	1.0	-54.8	-13.0	-41.8	
			1673.00	-23.4	H	3.0	37.0	1.0	-59.4	-13.0	-46.4	
			2509.50	-20.9	H	3.0	36.4	1.0	-56.3	-13.0	-43.3	
		3346.00	-22.2	H	3.0	36.1	1.0	-57.3	-13.0	-44.3		
		High Ch, 847.5										
		1695.00	-21.6	V	3.0	37.0	1.0	-57.6	-13.0	-44.6		
		2542.50	-22.9	V	3.0	36.4	1.0	-58.4	-13.0	-45.4		
		3390.00	-21.0	V	3.0	36.1	1.0	-56.1	-13.0	-43.1		
	1695.00	-21.9	H	3.0	37.0	1.0	-57.9	-13.0	-44.9			
	2542.50	-25.2	H	3.0	36.4	1.0	-60.6	-13.0	-47.6			
	3390.00	-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 #:		15I20413								
Date:		4/13/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 5 Harmonics, 3MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 825.5									
	1651.00	-27.8	V	3.0	37.0	1.0	-63.9	-13.0	-50.9	
	2476.50	-9.1	V	3.0	36.4	1.0	-44.5	-13.0	-31.5	
LTE5	3302.00	-22.0	V	3.0	36.2	1.0	-57.2	-13.0	-44.2	
	1651.00	-27.8	H	3.0	37.0	1.0	-63.9	-13.0	-50.9	
	2476.50	2.1	H	3.0	36.4	1.0	-33.3	-13.0	-20.3	
3MHz	3302.00	-20.9	H	3.0	36.2	1.0	-56.1	-13.0	-43.1	
	Mid Ch, 836.5									
	1673.00	-25.6	V	3.0	37.0	1.0	-61.6	-13.0	-48.6	
QPSK	2509.50	-17.6	V	3.0	36.4	1.0	-53.0	-13.0	-40.0	
	3346.00	-21.9	V	3.0	36.1	1.0	-57.0	-13.0	-44.0	
	1673.00	-25.1	H	3.0	37.0	1.0	-61.1	-13.0	-48.1	
	2509.50	-20.3	H	3.0	36.4	1.0	-55.7	-13.0	-42.7	
	3346.00	-21.8	H	3.0	36.1	1.0	-56.9	-13.0	-43.9	
	High Ch, 847.5									
	1695.00	-24.0	V	3.0	37.0	1.0	-60.0	-13.0	-47.0	
	2542.50	-24.0	V	3.0	36.4	1.0	-59.5	-13.0	-46.5	
	3390.00	-21.9	V	3.0	36.1	1.0	-57.0	-13.0	-44.0	
	1695.00	-28.5	H	3.0	37.0	1.0	-64.5	-13.0	-51.5	
	2542.50	-23.6	H	3.0	36.4	1.0	-59.1	-13.0	-46.1	
	3390.00	-21.1	H	3.0	36.1	1.0	-56.2	-13.0	-43.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/13/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 5 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7									
1649.40	-26.7	V	3.0	37.1	1.0	-62.8	-13.0	-49.8	
2474.10	-5.1	V	3.0	36.4	1.0	-40.5	-13.0	-27.5	
LTE5									
3298.80	-21.6	V	3.0	36.2	1.0	-56.8	-13.0	-43.8	
1649.40	-27.8	H	3.0	37.1	1.0	-63.9	-13.0	-50.9	
2474.10	-9.1	H	3.0	36.4	1.0	-44.6	-13.0	-31.6	
1.4MHz									
3298.80	-21.1	H	3.0	36.2	1.0	-56.3	-13.0	-43.3	
Mid Ch, 836.5									
1673.00	-26.9	V	3.0	37.0	1.0	-62.9	-13.0	-49.9	
16QAM									
2509.50	-7.3	V	3.0	36.4	1.0	-42.7	-13.0	-29.7	
3346.00	-21.3	V	3.0	36.1	1.0	-56.4	-13.0	-43.4	
1673.00	-27.9	H	3.0	37.0	1.0	-63.9	-13.0	-50.9	
2509.50	-17.4	H	3.0	36.4	1.0	-52.8	-13.0	-39.8	
3346.00	-21.9	H	3.0	36.1	1.0	-57.0	-13.0	-44.0	
High Ch, 848.3									
1696.60	-26.1	V	3.0	37.0	1.0	-62.1	-13.0	-49.1	
2544.90	-14.2	V	3.0	36.4	1.0	-49.6	-13.0	-36.6	
3393.20	-21.3	V	3.0	36.1	1.0	-56.3	-13.0	-43.3	
1696.60	-27.9	H	3.0	37.0	1.0	-63.9	-13.0	-50.9	
2544.90	-16.7	H	3.0	36.4	1.0	-52.1	-13.0	-39.1	
3393.20	-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 #:		15I20413							
Date:		4/13/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 5 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7									
1649.40	-28.1	V	3.0	37.1	1.0	-64.2	-13.0	-51.2	
2474.10	-8.3	V	3.0	36.4	1.0	-43.7	-13.0	-30.7	
LTE5									
3298.80	-21.2	V	3.0	36.2	1.0	-56.3	-13.0	-43.3	
1649.40	-28.9	H	3.0	37.1	1.0	-65.0	-13.0	-52.0	
2474.10	-19.3	H	3.0	36.4	1.0	-54.8	-13.0	-41.8	
1.4MHz									
3298.80	-22.3	H	3.0	36.2	1.0	-57.5	-13.0	-44.5	
Mid Ch, 836.5									
1673.00	-27.3	V	3.0	37.0	1.0	-63.3	-13.0	-50.3	
2509.50	-9.3	V	3.0	36.4	1.0	-44.7	-13.0	-31.7	
3346.00	-21.2	V	3.0	36.1	1.0	-56.3	-13.0	-43.3	
1673.00	-28.0	H	3.0	37.0	1.0	-64.0	-13.0	-51.0	
2509.50	-19.9	H	3.0	36.4	1.0	-55.3	-13.0	-42.3	
3346.00	-22.2	H	3.0	36.1	1.0	-57.3	-13.0	-44.3	
QPSK									
High Ch, 848.3									
1696.60	-27.1	V	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2544.90	-13.1	V	3.0	36.4	1.0	-48.5	-13.0	-35.5	
3393.20	-21.3	V	3.0	36.1	1.0	-56.3	-13.0	-43.3	
1696.60	-27.7	H	3.0	37.0	1.0	-63.7	-13.0	-50.7	
2544.90	-15.6	H	3.0	36.4	1.0	-51.0	-13.0	-38.0	
3393.20	-21.0	H	3.0	36.1	1.0	-56.1	-13.0	-43.1	

LTE Band 12

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement											
		Company:	LG								
		Project #:	15I20413								
		Date:	4/13/2015								
		Test Engineer:	R.Z								
		Configuration:	EUT , AC Adapter /HS								
		Location:	Chamber G								
		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	-23.9	V	3.0	37.4	1.0	-60.3	-13.0	-47.3		
	2112.00	-14.3	V	3.0	36.6	1.0	-49.9	-13.0	-36.9		
10MHz	2816.00	-2.1	V	3.0	36.4	1.0	-37.5	-13.0	-24.5		
	1408.00	-25.1	H	3.0	37.4	1.0	-61.4	-13.0	-48.4		
16QAM	2112.00	-16.5	H	3.0	36.6	1.0	-52.1	-13.0	-39.1		
	2816.00	-23.2	H	3.0	36.4	1.0	-58.6	-13.0	-45.6		
	Mid Ch,707.5										
	1415.00	-25.6	V	3.0	37.3	1.0	-61.9	-13.0	-48.9		
	2122.50	-14.7	V	3.0	36.6	1.0	-50.3	-13.0	-37.3		
	2830.00	2.8	V	3.0	36.4	1.0	-32.6	-13.0	-19.6		
	1415.00	-23.0	H	3.0	37.3	1.0	-59.4	-13.0	-46.4		
	2122.50	-17.5	H	3.0	36.6	1.0	-53.1	-13.0	-40.1		
	2830.00	-21.9	H	3.0	36.4	1.0	-57.2	-13.0	-44.2		
	High Ch,711										
	1422.00	-24.8	V	3.0	37.3	1.0	-61.1	-13.0	-48.1		
	2133.00	-16.1	V	3.0	36.6	1.0	-51.6	-13.0	-38.6		
	2844.00	-9.5	V	3.0	36.4	1.0	-44.8	-13.0	-31.8		
	1422.00	-24.9	H	3.0	37.3	1.0	-61.2	-13.0	-48.2		
	2133.00	-16.9	H	3.0	36.6	1.0	-52.4	-13.0	-39.4		
	2844.00	-22.9	H	3.0	36.4	1.0	-58.3	-13.0	-45.3		

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20413								
Date:		4/13/2015								
Test Engineer:		R.Z								
Configuration:		EUT , AC Adapter /HS								
Location:		Chamber G								
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	-23.8	V	3.0	37.4	1.0	-60.2	-13.0	-47.2	
	2112.00	-14.3	V	3.0	36.6	1.0	-49.9	-13.0	-36.9	
10MHz	2816.00	-3.4	V	3.0	36.4	1.0	-38.8	-13.0	-25.8	
	1408.00	-23.9	H	3.0	37.4	1.0	-60.2	-13.0	-47.2	
QPSK	2112.00	-16.9	H	3.0	36.6	1.0	-52.5	-13.0	-39.5	
	2816.00	-23.3	H	3.0	36.4	1.0	-58.7	-13.0	-45.7	
	Mid Ch,707.5									
	1415.00	-26.8	V	3.0	37.3	1.0	-63.1	-13.0	-50.1	
	2122.50	-14.1	V	3.0	36.6	1.0	-49.7	-13.0	-36.7	
	2830.00	3.4	V	3.0	36.4	1.0	-32.0	-13.0	-19.0	
	1415.00	-22.9	H	3.0	37.3	1.0	-59.3	-13.0	-46.3	
	2122.50	-16.8	H	3.0	36.6	1.0	-52.4	-13.0	-39.4	
	2830.00	-22.6	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	
	High Ch,711									
	1422.00	-24.3	V	3.0	37.3	1.0	-60.6	-13.0	-47.6	
	2133.00	-15.2	V	3.0	36.6	1.0	-50.8	-13.0	-37.8	
	2844.00	-9.1	V	3.0	36.4	1.0	-44.4	-13.0	-31.4	
	1422.00	-24.0	H	3.0	37.3	1.0	-60.3	-13.0	-47.3	
	2133.00	-16.6	H	3.0	36.6	1.0	-52.1	-13.0	-39.1	
	2844.00	-23.2	H	3.0	36.4	1.0	-58.6	-13.0	-45.6	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20413								
Date:		4/13/2015								
Test Engineer:		R.Z								
Configuration:		EUT , AC Adapter /HS								
Location:		Chamber G								
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	-25.1	V	3.0	37.4	1.0	-61.5	-13.0	-48.5	
	2104.50	-15.7	V	3.0	36.6	1.0	-51.3	-13.0	-38.3	
5MHz	2806.00	-22.1	V	3.0	36.4	1.0	-57.5	-13.0	-44.5	
	1403.00	0.0	H	3.0	37.4	1.0	-36.4	-13.0	-23.4	
16QAM	2104.50	-16.9	H	3.0	36.6	1.0	-52.5	-13.0	-39.5	
	2806.00	4.3	H	3.0	36.4	1.0	-31.1	-13.0	-18.1	
	Mid Ch, 707.50									
	1415.00	-24.9	V	3.0	37.3	1.0	-61.2	-13.0	-48.2	
	2122.50	-14.7	V	3.0	36.6	1.0	-50.3	-13.0	-37.3	
	2830.00	-15.5	V	3.0	36.4	1.0	-50.9	-13.0	-37.9	
	1415.00	-20.7	H	3.0	37.3	1.0	-57.1	-13.0	-44.1	
	2122.50	-15.2	H	3.0	36.6	1.0	-50.8	-13.0	-37.8	
	2830.00	-16.6	H	3.0	36.4	1.0	-51.9	-13.0	-38.9	
	High Ch, 713.50									
	1427.00	-26.0	V	3.0	37.3	1.0	-62.3	-13.0	-49.3	
	2140.50	-15.6	V	3.0	36.6	1.0	-51.1	-13.0	-38.1	
	2854.00	10.1	V	3.0	36.4	1.0	-25.2	-13.0	-12.2	
	1427.00	-23.3	H	3.0	37.3	1.0	-59.6	-13.0	-46.6	
	2140.50	-19.1	H	3.0	36.6	1.0	-54.6	-13.0	-41.6	
	2854.00	2.8	H	3.0	36.4	1.0	-32.6	-13.0	-19.6	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20413								
Date:		4/13/2015								
Test Engineer:		R.Z								
Configuration:		EUT , AC Adapter /HS								
Location:		Chamber G								
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	-24.8	V	3.0	37.4	1.0	-61.2	-13.0	-48.2	
	2104.50	-16.9	V	3.0	36.6	1.0	-52.5	-13.0	-39.5	
5MHz	2806.00	2.2	V	3.0	36.4	1.0	-33.1	-13.0	-20.1	
	1403.00	-20.7	H	3.0	37.4	1.0	-57.1	-13.0	-44.1	
QPSK	2104.50	-18.6	H	3.0	36.6	1.0	-54.2	-13.0	-41.2	
	2806.00	-1.1	H	3.0	36.4	1.0	-36.5	-13.0	-23.5	
	Mid Ch, 707.50									
	1415.00	-24.6	V	3.0	37.3	1.0	-60.9	-13.0	-47.9	
	2122.50	-15.2	V	3.0	36.6	1.0	-50.8	-13.0	-37.8	
	2830.00	-15.8	V	3.0	36.4	1.0	-51.2	-13.0	-38.2	
	1415.00	-20.9	H	3.0	37.3	1.0	-57.3	-13.0	-44.3	
	2122.50	-16.0	H	3.0	36.6	1.0	-51.6	-13.0	-38.6	
	2830.00	-15.9	H	3.0	36.4	1.0	-51.2	-13.0	-38.2	
	High Ch, 713.50									
	1427.00	-26.6	V	3.0	37.3	1.0	-62.9	-13.0	-49.9	
	2140.50	-15.7	V	3.0	36.6	1.0	-51.2	-13.0	-38.2	
	2854.00	-17.2	V	3.0	36.4	1.0	-52.6	-13.0	-39.6	
	1427.00	-22.7	H	3.0	37.3	1.0	-59.0	-13.0	-46.0	
	2140.50	-19.5	H	3.0	36.6	1.0	-55.0	-13.0	-42.0	
	2854.00	-22.9	H	3.0	36.4	1.0	-58.3	-13.0	-45.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20413								
Date:		4/13/2015								
Test Engineer:		R.Z								
Configuration:		EUT , AC Adapter /HS								
Location:		Chamber G								
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	-30.2	V	3.0	37.4	1.0	-66.6	-13.0	-53.6	
	2101.50	-15.1	V	3.0	36.6	1.0	-50.7	-13.0	-37.7	
3MHz	2802.00	-17.3	V	3.0	36.4	1.0	-52.7	-13.0	-39.7	
	1401.00	-28.1	H	3.0	37.4	1.0	-64.4	-13.0	-51.4	
16QAM	2101.50	-19.2	H	3.0	36.6	1.0	-54.8	-13.0	-41.8	
	2802.00	-16.4	H	3.0	36.4	1.0	-51.8	-13.0	-38.8	
	Mid Ch, 707.50									
	1415.00	-24.2	V	3.0	37.3	1.0	-60.5	-13.0	-47.5	
	2122.00	-14.6	V	3.0	36.6	1.0	-50.2	-13.0	-37.2	
	2830.00	-22.0	V	3.0	36.4	1.0	-57.4	-13.0	-44.4	
	1415.00	-19.9	H	3.0	37.3	1.0	-56.3	-13.0	-43.3	
	2122.00	-12.8	H	3.0	36.6	1.0	-48.4	-13.0	-35.4	
	2830.00	1.2	H	3.0	36.4	1.0	-34.2	-13.0	-21.2	
	High Ch, 714.5									
	1429.00	-25.4	V	3.0	37.3	1.0	-61.7	-13.0	-48.7	
	2143.50	-15.3	V	3.0	36.6	1.0	-50.8	-13.0	-37.8	
	2858.00	4.5	V	3.0	36.4	1.0	-30.8	-13.0	-17.8	
	1429.00	-21.3	H	3.0	37.3	1.0	-57.6	-13.0	-44.6	
	2143.50	-19.6	H	3.0	36.6	1.0	-55.1	-13.0	-42.1	
	2858.00	-5.7	H	3.0	36.4	1.0	-41.1	-13.0	-28.1	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20413								
Date:		4/13/2015								
Test Engineer:		R.Z								
Configuration:		EUT , AC Adapter /HS								
Location:		Chamber G								
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	-28.9	V	3.0	37.4	1.0	-65.3	-13.0	-52.3	
	2101.50	-17.2	V	3.0	36.6	1.0	-52.8	-13.0	-39.8	
3MHz	2802.00	1.3	V	3.0	36.4	1.0	-34.1	-13.0	-21.1	
	1401.00	-27.6	H	3.0	37.4	1.0	-63.9	-13.0	-50.9	
QPSK	2101.50	-19.5	H	3.0	36.6	1.0	-55.1	-13.0	-42.1	
	2802.00	-20.3	H	3.0	36.4	1.0	-55.7	-13.0	-42.7	
Mid Ch, 707.50										
	1415.00	-23.8	V	3.0	37.3	1.0	-60.1	-13.0	-47.1	
	2122.00	-15.3	V	3.0	36.6	1.0	-50.9	-13.0	-37.9	
	2830.00	-2.2	V	3.0	36.4	1.0	-37.6	-13.0	-24.6	
	1415.00	-21.2	H	3.0	37.3	1.0	-57.5	-13.0	-44.5	
	2122.00	-14.9	H	3.0	36.6	1.0	-50.5	-13.0	-37.5	
	2830.00	-21.8	H	3.0	36.4	1.0	-57.1	-13.0	-44.1	
High Ch, 714.5										
	1429.00	-25.5	V	3.0	37.3	1.0	-61.8	-13.0	-48.8	
	2143.50	-15.2	V	3.0	36.6	1.0	-50.7	-13.0	-37.7	
	2858.00	-1.0	V	3.0	36.4	1.0	-36.3	-13.0	-23.3	
	1429.00	-21.4	H	3.0	37.3	1.0	-57.7	-13.0	-44.7	
	2143.50	-19.0	H	3.0	36.6	1.0	-54.5	-13.0	-41.5	
	2858.00	-17.9	H	3.0	36.4	1.0	-53.3	-13.0	-40.3	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20413								
Date:		4/13/2015								
Test Engineer:		R.Z								
Configuration:		EUT , AC Adapter /HS								
Location:		Chamber G								
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	-25.1	V	3.0	37.4	1.0	-61.5	-13.0	-48.5	
	2099.10	-15.0	V	3.0	36.6	1.0	-50.6	-13.0	-37.6	
1.4MHz	2798.80	-1.3	V	3.0	36.4	1.0	-36.6	-13.0	-23.6	
	1399.40	-21.3	H	3.0	37.4	1.0	-57.7	-13.0	-44.7	
16QAM	2099.10	-16.0	H	3.0	36.6	1.0	-51.6	-13.0	-38.6	
	2798.80	4.9	H	3.0	36.4	1.0	-30.5	-13.0	-17.5	
	Mid Ch, 707.50									
	1415.00	-23.6	V	3.0	37.3	1.0	-59.9	-13.0	-46.9	
	2122.00	-9.8	V	3.0	36.6	1.0	-45.4	-13.0	-32.4	
	2830.00	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
	1415.00	-18.9	H	3.0	37.3	1.0	-55.3	-13.0	-42.3	
	2122.00	-6.1	H	3.0	36.6	1.0	-41.7	-13.0	-28.7	
	2830.00	-23.1	H	3.0	36.4	1.0	-58.4	-13.0	-45.4	
	High Ch, 715.3									
	1430.60	-24.5	V	3.0	37.3	1.0	-60.8	-13.0	-47.8	
	2145.90	-16.0	V	3.0	36.6	1.0	-51.5	-13.0	-38.5	
	2861.20	-15.8	V	3.0	36.4	1.0	-51.1	-13.0	-38.1	
	1430.60	-19.9	H	3.0	37.3	1.0	-56.2	-13.0	-43.2	
	2145.90	-18.3	H	3.0	36.6	1.0	-53.8	-13.0	-40.8	
	2861.20	-3.5	H	3.0	36.4	1.0	-38.9	-13.0	-25.9	

UL Verification Services, Inc.										
Above 1GHz High Frequency Substitution Measurement										
Company:		LG								
Project #:		15I20413								
Date:		4/13/2015								
Test Engineer:		R.Z								
Configuration:		EUT , AC Adapter /HS								
Location:		Chamber G								
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	-24.8	V	3.0	37.4	1.0	-61.2	-13.0	-48.2	
	2099.10	-16.7	V	3.0	36.6	1.0	-52.3	-13.0	-39.3	
1.4MHz	2798.80	-17.3	V	3.0	36.4	1.0	-52.7	-13.0	-39.7	
	1399.40	-23.8	H	3.0	37.4	1.0	-60.1	-13.0	-47.1	
QPSK	2099.10	-18.6	H	3.0	36.6	1.0	-54.2	-13.0	-41.2	
	2798.80	2.9	H	3.0	36.4	1.0	-32.5	-13.0	-19.5	
	Mid Ch, 707.50									
	1415.00	-25.8	V	3.0	37.3	1.0	-62.1	-13.0	-49.1	
	2122.00	-16.6	V	3.0	36.6	1.0	-52.2	-13.0	-39.2	
	2830.00	-20.8	V	3.0	36.4	1.0	-56.2	-13.0	-43.2	
	1415.00	-19.2	H	3.0	37.3	1.0	-55.6	-13.0	-42.6	
	2122.00	-13.5	H	3.0	36.6	1.0	-49.1	-13.0	-36.1	
	2830.00	-22.4	H	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	High Ch, 715.3									
	1430.60	-24.2	V	3.0	37.3	1.0	-60.5	-13.0	-47.5	
	2145.90	-16.9	V	3.0	36.6	1.0	-52.4	-13.0	-39.4	
	2861.20	-19.6	V	3.0	36.4	1.0	-54.9	-13.0	-41.9	
	1430.60	-19.9	H	3.0	37.3	1.0	-56.3	-13.0	-43.3	
	2145.90	-18.7	H	3.0	36.6	1.0	-54.2	-13.0	-41.2	
	2861.20	-9.0	H	3.0	36.4	1.0	-44.4	-13.0	-31.4	

LTE Band 25

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
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	-9.2	V	3.0	35.8	1.0	-44.1	-13.0	-31.1
	5580.00	-16.5	V	3.0	35.5	1.0	-51.0	-13.0	-38.0
LTE25	7440.00	-14.6	V	3.0	35.7	1.0	-49.4	-13.0	-36.4
	3720.00	-4.8	H	3.0	35.8	1.0	-39.6	-13.0	-26.6
20MHz	5580.00	-16.5	H	3.0	35.5	1.0	-51.0	-13.0	-38.0
	7440.00	-14.0	H	3.0	35.7	1.0	-48.8	-13.0	-35.8
Mid Ch, 1882.5									
16QAM	3765.00	97.5	V	3.0	35.8	1.0	62.7	-13.0	75.7
	5647.50	-16.3	V	3.0	35.5	1.0	-50.8	-13.0	-37.8
	7530.00	-14.2	V	3.0	35.7	1.0	-49.0	-13.0	-36.0
	3765.00	-10.2	H	3.0	35.8	1.0	-45.0	-13.0	-32.0
	5647.50	-15.6	H	3.0	35.5	1.0	-50.1	-13.0	-37.1
	7530.00	-13.3	H	3.0	35.7	1.0	-48.0	-13.0	-35.0
High Ch, 1905									
	3810.00	-11.1	V	3.0	35.8	1.0	-45.8	-13.0	-32.8
	5715.00	-16.3	V	3.0	35.5	1.0	-50.8	-13.0	-37.8
	7620.00	-14.0	V	3.0	35.8	1.0	-48.8	-13.0	-35.8
	3810.00	-11.4	H	3.0	35.8	1.0	-46.2	-13.0	-33.2
	5715.00	-16.7	H	3.0	35.5	1.0	-51.2	-13.0	-38.2
	7620.00	-13.5	H	3.0	35.8	1.0	-48.2	-13.0	-35.2

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20413								
Date:		4/3/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 25 Harmonics, 20MHz 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, 1860									
	3720.00	-8.1	V	3.0	35.8	1.0	-43.0	-13.0	-30.0	
LTE25	5580.00	-15.3	V	3.0	35.5	1.0	-49.8	-13.0	-36.8	
	7440.00	-13.7	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
20MHz	3720.00	-5.9	H	3.0	35.8	1.0	-40.7	-13.0	-27.7	
	5580.00	-17.6	H	3.0	35.5	1.0	-52.1	-13.0	-39.1	
	7440.00	-13.0	H	3.0	35.7	1.0	-47.8	-13.0	-34.8	
QPSK	Mid Ch, 1882.5									
	3765.00	-9.1	V	3.0	35.8	1.0	-43.9	-13.0	-30.9	
	5647.50	-16.9	V	3.0	35.5	1.0	-51.4	-13.0	-38.4	
	7530.00	-15.1	V	3.0	35.7	1.0	-49.9	-13.0	-36.9	
	3765.00	-12.2	H	3.0	35.8	1.0	-47.0	-13.0	-34.0	
	5647.50	-16.3	H	3.0	35.5	1.0	-50.8	-13.0	-37.8	
	7530.00	-13.1	H	3.0	35.7	1.0	-47.9	-13.0	-34.9	
	High Ch, 1905									
	3810.00	-9.8	V	3.0	35.8	1.0	-44.5	-13.0	-31.5	
	5715.00	-16.8	V	3.0	35.5	1.0	-51.3	-13.0	-38.3	
	7620.00	-13.5	V	3.0	35.8	1.0	-48.3	-13.0	-35.3	
	3810.00	-19.7	H	3.0	35.8	1.0	-54.5	-13.0	-41.5	
	5715.00	-15.2	H	3.0	35.5	1.0	-49.7	-13.0	-36.7	
	7620.00	-13.2	H	3.0	35.8	1.0	-47.9	-13.0	-34.9	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_16QAM Band 25 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1857.5									
Band	3715.00	-7.2	V	3.0	35.8	1.0	-42.1	-13.0	-29.1
	5572.50	-17.0	V	3.0	35.5	1.0	-51.5	-13.0	-38.5
LTE25	7430.00	-14.7	V	3.0	35.7	1.0	-49.5	-13.0	-36.5
	3715.00	-3.4	H	3.0	35.8	1.0	-38.2	-13.0	-25.2
	5572.50	-17.5	H	3.0	35.5	1.0	-52.0	-13.0	-39.0
15MHz	7430.00	-13.1	H	3.0	35.7	1.0	-47.8	-13.0	-34.8
Mid Ch, 1882.5									
16QAM	3815.00	-6.0	V	3.0	35.8	1.0	-40.8	-13.0	-27.8
	5722.50	-16.2	V	3.0	35.5	1.0	-50.7	-13.0	-37.7
	7630.00	-12.6	V	3.0	35.7	1.0	-47.4	-13.0	-34.4
	3815.00	-8.7	H	3.0	35.8	1.0	-43.5	-13.0	-30.5
	5722.50	-14.8	H	3.0	35.5	1.0	-49.3	-13.0	-36.3
	7630.00	-12.2	H	3.0	35.7	1.0	-47.0	-13.0	-34.0
High Ch, 1907.5									
	3815.00	-12.0	V	3.0	35.8	1.0	-46.8	-13.0	-33.8
	5722.50	-16.6	V	3.0	35.5	1.0	-51.1	-13.0	-38.1
	7630.00	-13.1	V	3.0	35.8	1.0	-47.9	-13.0	-34.9
	3815.00	-10.3	H	3.0	35.8	1.0	-45.1	-13.0	-32.1
	5722.50	-15.7	H	3.0	35.5	1.0	-50.2	-13.0	-37.2
	7630.00	-12.5	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 #:		15I20413								
Date:		4/3/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
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	-7.3	V	3.0	35.8	1.0	-42.2	-13.0	-29.2	
	5572.50	-16.2	V	3.0	35.5	1.0	-50.7	-13.0	-37.7	
LTE25	7430.00	-13.8	V	3.0	35.7	1.0	-48.6	-13.0	-35.6	
	3715.00	-4.9	H	3.0	35.8	1.0	-39.7	-13.0	-26.7	
	5572.50	-16.6	H	3.0	35.5	1.0	-51.1	-13.0	-38.1	
15MHz	7430.00	-13.4	H	3.0	35.7	1.0	-48.1	-13.0	-35.1	
	Mid Ch, 1882.5									
	3765.00	-8.6	V	3.0	35.8	1.0	-43.4	-13.0	-30.4	
QPSK	5647.50	-16.0	V	3.0	35.5	1.0	-50.5	-13.0	-37.5	
	7530.00	-13.2	V	3.0	35.7	1.0	-48.0	-13.0	-35.0	
	3765.00	-10.5	H	3.0	35.8	1.0	-45.3	-13.0	-32.3	
	5647.50	-16.1	H	3.0	35.5	1.0	-50.6	-13.0	-37.6	
	7530.00	-12.6	H	3.0	35.7	1.0	-47.4	-13.0	-34.4	
High Ch, 1907.5										
	3815.00	-8.1	V	3.0	35.8	1.0	-42.9	-13.0	-29.9	
	5722.50	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4	
	7630.00	-12.6	V	3.0	35.8	1.0	-47.4	-13.0	-34.4	
	3815.00	-20.2	H	3.0	35.8	1.0	-55.0	-13.0	-42.0	
	5722.50	-14.5	H	3.0	35.5	1.0	-49.0	-13.0	-36.0	
	7630.00	-11.7	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 #:		15I20413							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
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	-7.6	V	3.0	35.9	1.0	-42.5	-13.0	-29.5
	5565.00	-16.8	V	3.0	35.5	1.0	-51.3	-13.0	-38.3
LTE25	7420.00	-15.1	V	3.0	35.7	1.0	-49.8	-13.0	-36.8
	3710.00	-5.6	H	3.0	35.9	1.0	-40.5	-13.0	-27.5
	5565.00	-15.3	H	3.0	35.5	1.0	-49.7	-13.0	-36.7
10MHz	7420.00	-12.4	H	3.0	35.7	1.0	-47.1	-13.0	-34.1
Mid Ch, 1882.5									
16QAM	3765.00	-8.4	V	3.0	35.8	1.0	-43.2	-13.0	-30.2
	5647.50	-17.4	V	3.0	35.5	1.0	-51.9	-13.0	-38.9
	7530.00	-14.9	V	3.0	35.7	1.0	-49.7	-13.0	-36.7
	3765.00	-7.8	H	3.0	35.8	1.0	-42.6	-13.0	-29.6
	5647.50	-16.1	H	3.0	35.5	1.0	-50.6	-13.0	-37.6
	7530.00	-13.6	H	3.0	35.7	1.0	-48.4	-13.0	-35.4
High Ch, 1910									
	3820.00	-9.9	V	3.0	35.8	1.0	-44.7	-13.0	-31.7
	5730.00	-16.9	V	3.0	35.5	1.0	-51.4	-13.0	-38.4
	7640.00	-13.6	V	3.0	35.8	1.0	-48.3	-13.0	-35.3
	3820.00	-14.4	H	3.0	35.8	1.0	-49.2	-13.0	-36.2
	5730.00	-15.5	H	3.0	35.5	1.0	-50.0	-13.0	-37.0
	7640.00	-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 #:		15I20413									
Date:		4/3/2015									
Test Engineer:		R.Z									
Configuration:		EUT/ AC Charger/ Headset									
Location:		Chamber G									
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	-9.3	V	3.0	35.9	1.0	-44.2	-13.0	-31.2		
	5565.00	-16.3	V	3.0	35.5	1.0	-50.8	-13.0	-37.8		
	LTE25	7420.00	-14.3	V	3.0	35.7	1.0	-49.1	-13.0	-36.1	
		3710.00	-7.1	H	3.0	35.9	1.0	-41.9	-13.0	-28.9	
	10MHz	5565.00	-16.8	H	3.0	35.5	1.0	-51.2	-13.0	-38.2	
7420.00		-13.3	H	3.0	35.7	1.0	-48.0	-13.0	-35.0		
QPSK	Mid Ch, 1882.5										
	3765.00	-8.9	V	3.0	35.8	1.0	-43.7	-13.0	-30.7		
	5647.50	-16.6	V	3.0	35.5	1.0	-51.1	-13.0	-38.1		
	7530.00	-14.1	V	3.0	35.7	1.0	-48.9	-13.0	-35.9		
	3765.00	-5.8	H	3.0	35.8	1.0	-40.6	-13.0	-27.6		
	5647.50	-15.0	H	3.0	35.5	1.0	-49.5	-13.0	-36.5		
	7530.00	-13.2	H	3.0	35.7	1.0	-48.0	-13.0	-35.0		
	High Ch, 1910										
3820.00	-12.3	V	3.0	35.8	1.0	-47.1	-13.0	-34.1			
5730.00	-16.8	V	3.0	35.5	1.0	-51.3	-13.0	-38.3			
7640.00	-13.8	V	3.0	35.8	1.0	-48.6	-13.0	-35.6			
3820.00	-13.7	H	3.0	35.8	1.0	-48.5	-13.0	-35.5			
5730.00	-16.3	H	3.0	35.5	1.0	-50.8	-13.0	-37.8			
7640.00	-13.1	H	3.0	35.8	1.0	-47.9	-13.0	-34.9			

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
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	-8.3	V	3.0	35.9	1.0	-43.1	-13.0	-30.1
	5557.50	-17.3	V	3.0	35.5	1.0	-51.7	-13.0	-38.7
LTE25	7410.00	-14.4	V	3.0	35.7	1.0	-49.1	-13.0	-36.1
	3705.00	-5.6	H	3.0	35.9	1.0	-40.5	-13.0	-27.5
	5557.50	-15.8	H	3.0	35.5	1.0	-50.2	-13.0	-37.2
5MHz	7410.00	-11.9	H	3.0	35.7	1.0	-46.6	-13.0	-33.6
Mid Ch, 1882.5									
16QAM	3765.00	-7.9	V	3.0	35.8	1.0	-42.7	-13.0	-29.7
	5647.50	-16.7	V	3.0	35.5	1.0	-51.2	-13.0	-38.2
	7530.00	-15.0	V	3.0	35.7	1.0	-49.8	-13.0	-36.8
	3765.00	-10.3	H	3.0	35.8	1.0	-45.1	-13.0	-32.1
	5647.50	-15.9	H	3.0	35.5	1.0	-50.4	-13.0	-37.4
	7530.00	-12.0	H	3.0	35.7	1.0	-46.8	-13.0	-33.8
High Ch, 1912.5									
	3825.00	-13.9	V	3.0	35.8	1.0	-48.7	-13.0	-35.7
	5737.50	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4
	7650.00	-13.6	V	3.0	35.8	1.0	-48.3	-13.0	-35.3
	3825.00	-12.4	H	3.0	35.8	1.0	-47.2	-13.0	-34.2
	5737.50	-16.1	H	3.0	35.5	1.0	-50.6	-13.0	-37.6
	7650.00	-13.6	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 Electronics								
Project #:		15I20413								
Date:		4/3/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
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	-9.4	V	3.0	35.9	1.0	-44.2	-13.0	-31.2	
	5557.50	-16.1	V	3.0	35.5	1.0	-50.6	-13.0	-37.6	
LTE25	7410.00 -14.3 V 3.0 35.7 1.0 -49.0 -13.0 -36.0									
	3705.00	-6.5	H	3.0	35.9	1.0	-41.4	-13.0	-28.4	
	5557.50	-16.5	H	3.0	35.5	1.0	-50.9	-13.0	-37.9	
5MHz	7410.00 -12.6 H 3.0 35.7 1.0 -47.3 -13.0 -34.3									
	Mid Ch, 1882.5									
	3765.00	-9.5	V	3.0	35.8	1.0	-44.4	-13.0	-31.4	
QPSK	5647.50 -16.2 V 3.0 35.5 1.0 -50.7 -13.0 -37.7									
	7530.00	-13.4	V	3.0	35.7	1.0	-48.2	-13.0	-35.2	
	3765.00	-7.7	H	3.0	35.8	1.0	-42.5	-13.0	-29.5	
5647.50 -16.3 H 3.0 35.5 1.0 -50.8 -13.0 -37.8										
7530.00 -13.1 H 3.0 35.7 1.0 -47.9 -13.0 -34.9										
High Ch, 1912.5										
3825.00 -15.0 V 3.0 35.8 1.0 -49.8 -13.0 -36.8										
5737.50 -16.3 V 3.0 35.5 1.0 -50.8 -13.0 -37.8										
7650.00 -15.3 V 3.0 35.8 1.0 -50.0 -13.0 -37.0										
3825.00 -10.1 H 3.0 35.8 1.0 -44.9 -13.0 -31.9										
5737.50 -15.8 H 3.0 35.5 1.0 -50.3 -13.0 -37.3										
7650.00 -12.8 H 3.0 35.8 1.0 -47.6 -13.0 -34.6										

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
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
Band									
Low Ch, 1851.5									
3703.00	-7.6	V	3.0	35.9	1.0	-42.4	-13.0	-29.4	
5554.50	-16.6	V	3.0	35.5	1.0	-51.1	-13.0	-38.1	
LTE25									
7406.00	-14.3	V	3.0	35.7	1.0	-49.0	-13.0	-36.0	
3703.00	-4.3	H	3.0	35.9	1.0	-39.2	-13.0	-26.2	
5554.50	-16.2	H	3.0	35.5	1.0	-50.7	-13.0	-37.7	
3MHz									
7406.00	-13.1	H	3.0	35.7	1.0	-47.8	-13.0	-34.8	
16QAM									
Mid Ch, 1882.5									
3765.00	-6.1	V	3.0	35.8	1.0	-40.9	-13.0	-27.9	
5647.50	-16.5	V	3.0	35.5	1.0	-51.0	-13.0	-38.0	
7530.00	-14.4	V	3.0	35.7	1.0	-49.2	-13.0	-36.2	
3765.00	-7.8	H	3.0	35.8	1.0	-42.6	-13.0	-29.6	
5647.50	-15.9	H	3.0	35.5	1.0	-50.4	-13.0	-37.4	
7530.00	-14.0	H	3.0	35.7	1.0	-48.8	-13.0	-35.8	
High Ch, 1913.5									
3827.00	-7.3	V	3.0	35.8	1.0	-42.1	-13.0	-29.1	
5740.50	-15.5	V	3.0	35.5	1.0	-50.0	-13.0	-37.0	
7654.00	-12.8	V	3.0	35.8	1.0	-47.5	-13.0	-34.5	
3827.00	-8.4	H	3.0	35.8	1.0	-43.2	-13.0	-30.2	
5740.50	-16.1	H	3.0	35.5	1.0	-50.6	-13.0	-37.6	
7654.00	-13.4	H	3.0	35.8	1.0	-48.2	-13.0	-35.2	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20413								
Date:		4/3/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
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	-8.6	V	3.0	35.9	1.0	-43.4	-13.0	-30.4	
	5554.50	-16.9	V	3.0	35.5	1.0	-51.4	-13.0	-38.4	
LTE25	7406.00	-11.9	V	3.0	35.7	1.0	-46.6	-13.0	-33.6	
	3703.00	-5.1	H	3.0	35.9	1.0	-40.0	-13.0	-27.0	
	5554.50	-16.3	H	3.0	35.5	1.0	-50.8	-13.0	-37.8	
3MHz	7406.00	-13.4	H	3.0	35.7	1.0	-48.1	-13.0	-35.1	
	Mid Ch, 1882.5									
	3765.00	-6.9	V	3.0	35.8	1.0	-41.7	-13.0	-28.7	
QPSK	5647.50	-17.1	V	3.0	35.5	1.0	-51.6	-13.0	-38.6	
	7530.00	-13.8	V	3.0	35.7	1.0	-48.6	-13.0	-35.6	
	3765.00	-8.3	H	3.0	35.8	1.0	-43.1	-13.0	-30.1	
	5647.50	-16.0	H	3.0	35.5	1.0	-50.5	-13.0	-37.5	
	7530.00	-12.7	H	3.0	35.7	1.0	-47.5	-13.0	-34.5	
	High Ch, 1913.5									
	3827.00	-9.4	V	3.0	35.8	1.0	-44.2	-13.0	-31.2	
	5740.50	-15.8	V	3.0	35.5	1.0	-50.3	-13.0	-37.3	
	7654.00	-14.1	V	3.0	35.8	1.0	-48.8	-13.0	-35.8	
	3827.00	-7.5	H	3.0	35.8	1.0	-42.3	-13.0	-29.3	
	5740.50	-15.6	H	3.0	35.5	1.0	-50.1	-13.0	-37.1	
	7654.00	-12.5	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 #:		15I20413							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
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
Low Ch, 1850.7									
Band	3701.40	-8.8	V	3.0	35.9	1.0	-43.6	-13.0	-30.6
	5552.10	-17.0	V	3.0	35.5	1.0	-51.5	-13.0	-38.5
LTE25	7402.80	-13.5	V	3.0	35.7	1.0	-48.2	-13.0	-35.2
	3701.40	-5.2	H	3.0	35.9	1.0	-40.1	-13.0	-27.1
	5552.10	-16.1	H	3.0	35.5	1.0	-50.6	-13.0	-37.6
1.4MHz	7402.80	-11.7	H	3.0	35.7	1.0	-46.4	-13.0	-33.4
Mid Ch, 1882.5									
16QAM	3765.00	-6.3	V	3.0	35.8	1.0	-44.7	-13.0	-31.7
	5647.50	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4
	7530.00	-13.9	V	3.0	35.7	1.0	-48.7	-13.0	-35.7
	3765.00	-6.4	H	3.0	35.8	1.0	-41.2	-13.0	-28.2
	5647.50	-15.5	H	3.0	35.5	1.0	-50.0	-13.0	-37.0
	7530.00	-13.3	H	3.0	35.7	1.0	-48.0	-13.0	-35.0
High Ch, 1914.3									
	3828.60	-18.1	V	3.0	35.8	1.0	-52.9	-13.0	-39.9
	5742.90	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4
	7657.20	-13.6	V	3.0	35.8	1.0	-48.3	-13.0	-35.3
	3828.60	-19.2	H	3.0	35.8	1.0	-54.0	-13.0	-41.0
	5742.90	-15.3	H	3.0	35.5	1.0	-49.8	-13.0	-36.8
	7657.20	-12.3	H	3.0	35.8	1.0	-47.1	-13.0	-34.1

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/3/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
Mode:		LTE_QPSK Band 25 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.7									
Band	3701.40	-5.4	V	3.0	35.9	1.0	-40.2	-13.0	-27.2
	5552.10	-16.6	V	3.0	35.5	1.0	-51.1	-13.0	-38.1
LTE25	7402.80	-11.9	V	3.0	35.7	1.0	-46.6	-13.0	-33.6
	3701.40	-6.6	H	3.0	35.9	1.0	-41.5	-13.0	-28.5
	5552.10	-15.4	H	3.0	35.5	1.0	-49.9	-13.0	-36.9
1.4MHz	7402.80	-11.4	H	3.0	35.7	1.0	-46.1	-13.0	-33.1
Mid Ch, 1882.5									
QPSK	3765.00	-10.1	V	3.0	35.8	1.0	-44.9	-13.0	-31.9
	5647.50	-17.4	V	3.0	35.5	1.0	-51.9	-13.0	-38.9
	7530.00	-13.3	V	3.0	35.7	1.0	-48.1	-13.0	-35.1
	3765.00	-10.4	H	3.0	35.8	1.0	-45.2	-13.0	-32.2
	5647.50	-15.9	H	3.0	35.5	1.0	-50.4	-13.0	-37.4
	7530.00	-13.0	H	3.0	35.7	1.0	-47.8	-13.0	-34.8
High Ch, 1914.3									
	3828.60	-17.7	V	3.0	35.8	1.0	-52.5	-13.0	-39.5
	5742.90	-15.7	V	3.0	35.5	1.0	-50.2	-13.0	-37.2
	7657.20	-13.5	V	3.0	35.8	1.0	-48.2	-13.0	-35.2
	3828.60	-19.2	H	3.0	35.8	1.0	-54.0	-13.0	-41.0
	5742.90	-15.5	H	3.0	35.5	1.0	-50.0	-13.0	-37.0
	7657.20	-12.6	H	3.0	35.8	1.0	-47.4	-13.0	-34.4

LTE Band 26

Company: LG Electronics
Project #: 15I20413
Date: 4/14/2015
Test Engineer: R.Z
Configuration: EUT/ AC Charger/ Headset
Location: Chamber G
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 LTE26 15MHz 16QAM	Low Ch, 831.5									
	1643.00	-31.4	V	3.0	37.0	1.0	-67.4	-13.0	-54.4	
	2464.50	-28.3	V	3.0	36.4	1.0	-63.8	-13.0	-50.8	
	3286.00	-26.9	V	3.0	36.2	1.0	-62.1	-13.0	-49.1	
	1643.00	-32.1	H	3.0	37.0	1.0	-68.1	-13.0	-55.1	
	2464.50	-29.8	H	3.0	36.4	1.0	-65.2	-13.0	-52.2	
	3286.00	-27.2	H	3.0	36.2	1.0	-62.4	-13.0	-49.4	
	Mid Ch, 836.5									
	1673.00	-31.0	V	3.0	37.0	1.0	-67.0	-13.0	-54.0	
	2509.50	-26.5	V	3.0	36.4	1.0	-61.9	-13.0	-48.9	
	3346.00	-26.3	V	3.0	36.1	1.0	-61.4	-13.0	-48.4	
	1673.00	-29.1	H	3.0	37.0	1.0	-65.1	-13.0	-52.1	
	2509.50	-25.1	H	3.0	36.4	1.0	-60.5	-13.0	-47.5	
	3346.00	-26.5	H	3.0	36.1	1.0	-61.6	-13.0	-48.6	
	High Ch, 841.5									
	1683.00	-30.7	V	3.0	37.0	1.0	-66.7	-13.0	-53.7	
	2524.50	-27.4	V	3.0	36.4	1.0	-62.8	-13.0	-49.8	
	3366.00	-26.0	V	3.0	36.1	1.0	-61.2	-13.0	-48.2	
	1683.00	-30.4	H	3.0	37.0	1.0	-66.4	-13.0	-53.4	
	2524.50	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
	3366.00	-25.9	H	3.0	36.1	1.0	-61.0	-13.0	-48.0	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20413								
Date:		4/14/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
Mode:		LTE_QPSK Band 26 Harmonics, 15MHz 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, 831.5									
LTE26	1643.00	-30.3	V	3.0	37.0	1.0	-66.3	-13.0	-53.3	
	2464.50	-28.4	V	3.0	36.4	1.0	-63.9	-13.0	-50.9	
	3286.00	-26.6	V	3.0	36.2	1.0	-61.8	-13.0	-48.8	
15MHz	1643.00	-30.9	H	3.0	37.0	1.0	-66.9	-13.0	-53.9	
	2464.50	-30.6	H	3.0	36.4	1.0	-66.0	-13.0	-53.0	
	3286.00	-26.6	H	3.0	36.2	1.0	-61.8	-13.0	-48.8	
QPSK	Mid Ch, 836.5									
	1673.00	-30.7	V	3.0	37.0	1.0	-66.7	-13.0	-53.7	
	2509.50	-26.0	V	3.0	36.4	1.0	-61.4	-13.0	-48.4	
	3346.00	-25.6	V	3.0	36.1	1.0	-60.7	-13.0	-47.7	
	1673.00	-29.5	H	3.0	37.0	1.0	-65.5	-13.0	-52.5	
	2509.50	-23.0	H	3.0	36.4	1.0	-58.4	-13.0	-45.4	
	3346.00	-26.3	H	3.0	36.1	1.0	-61.4	-13.0	-48.4	
	High Ch, 841.5									
	1683.00	-30.2	V	3.0	37.0	1.0	-66.2	-13.0	-53.2	
	2524.50	-26.4	V	3.0	36.4	1.0	-61.8	-13.0	-48.8	
	3366.00	-26.1	V	3.0	36.1	1.0	-61.3	-13.0	-48.3	
	1683.00	-30.1	H	3.0	37.0	1.0	-66.1	-13.0	-53.1	
	2524.50	-24.2	H	3.0	36.4	1.0	-59.6	-13.0	-46.6	
	3366.00	-25.2	H	3.0	36.1	1.0	-60.3	-13.0	-47.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20413								
Date:		4/14/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
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										
1638.00	-33.2	V	3.0	37.0	1.0	-69.3	-13.0	-56.3		
2457.00	-28.0	V	3.0	36.4	1.0	-63.4	-13.0	-50.4		
3276.00	-26.2	V	3.0	36.2	1.0	-61.4	-13.0	-48.4		
16QAM										
1638.00	-34.3	H	3.0	37.0	1.0	-70.3	-13.0	-57.3		
2457.00	-29.3	H	3.0	36.4	1.0	-64.7	-13.0	-51.7		
10MHz	3276.00	-26.5	H	3.0	36.2	1.0	-61.7	-13.0	-48.7	
Mid Ch, 831.5										
1663.00	-31.4	V	3.0	37.0	1.0	-67.4	-13.0	-54.4		
2494.50	-22.2	V	3.0	36.4	1.0	-57.6	-13.0	-44.6		
3326.00	-24.7	V	3.0	36.1	1.0	-59.8	-13.0	-46.8		
1663.00	-32.2	H	3.0	37.0	1.0	-68.2	-13.0	-55.2		
2494.50	-24.7	H	3.0	36.4	1.0	-60.1	-13.0	-47.1		
3326.00	-26.5	H	3.0	36.1	1.0	-61.6	-13.0	-48.6		
High Ch, 844										
1688.00	-32.7	V	3.0	37.0	1.0	-68.7	-13.0	-55.7		
2532.00	-23.7	V	3.0	36.4	1.0	-59.1	-13.0	-46.1		
3376.00	-25.3	V	3.0	36.1	1.0	-60.4	-13.0	-47.4		
1688.00	-27.2	H	3.0	37.0	1.0	-63.2	-13.0	-50.2		
2532.00	-25.5	H	3.0	36.4	1.0	-60.9	-13.0	-47.9		
3376.00	-26.7	H	3.0	36.1	1.0	-61.8	-13.0	-48.8		

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		15I20413								
Date:		4/14/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
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	-32.8	V	3.0	37.0	1.0	-68.9	-13.0	-55.9	
	2457.00	-28.5	V	3.0	36.4	1.0	-63.9	-13.0	-50.9	
LTE26	3276.00	-25.8	V	3.0	36.2	1.0	-61.0	-13.0	-48.0	
	1638.00	-33.8	H	3.0	37.0	1.0	-69.8	-13.0	-56.8	
	2457.00	-28.9	H	3.0	36.4	1.0	-64.4	-13.0	-51.4	
10MHz	3276.00	-27.1	H	3.0	36.2	1.0	-62.3	-13.0	-49.3	
	Mid Ch, 831.5									
	1663.00	-31.7	V	3.0	37.0	1.0	-67.7	-13.0	-54.7	
QPSK	2494.50	-24.0	V	3.0	36.4	1.0	-59.4	-13.0	-46.4	
	3326.00	-25.5	V	3.0	36.1	1.0	-60.6	-13.0	-47.6	
	1663.00	-31.7	H	3.0	37.0	1.0	-67.7	-13.0	-54.7	
	2494.50	-25.6	H	3.0	36.4	1.0	-61.0	-13.0	-48.0	
	3326.00	-26.0	H	3.0	36.1	1.0	-61.1	-13.0	-48.1	
	High Ch, 844									
	1688.00	-32.0	V	3.0	37.0	1.0	-68.0	-13.0	-55.0	
	2532.00	-23.4	V	3.0	36.4	1.0	-58.8	-13.0	-45.8	
	3376.00	112.8	V	3.0	36.1	1.0	77.7	-13.0	90.7	
	1688.00	-26.8	H	3.0	37.0	1.0	-62.8	-13.0	-49.8	
	2532.00	-23.7	H	3.0	36.4	1.0	-59.1	-13.0	-46.1	
	3376.00	-25.6	H	3.0	36.1	1.0	-60.7	-13.0	-47.7	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		LG Electronics							
Project #:		15I20413							
Date:		4/13/2015							
Test Engineer:		R.Z							
Configuration:		EUT/ AC Charger/ Headset							
Location:		Chamber G							
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	-28.7	V	3.0	37.0	1.0	-64.7	-13.0	-51.7	
2449.50	-3.2	V	3.0	36.4	1.0	-38.7	-13.0	-25.7	
3266.00	-21.8	V	3.0	36.2	1.0	-56.9	-13.0	-43.9	
LTE26									
1633.00	-28.1	H	3.0	37.0	1.0	-64.2	-13.0	-51.2	
2449.50	-17.2	H	3.0	36.4	1.0	-52.6	-13.0	-39.6	
5MHz									
3266.00	-21.9	H	3.0	36.2	1.0	-57.0	-13.0	-44.0	
Mid Ch, 831.5									
1663.00	-26.8	V	3.0	37.0	1.0	-62.8	-13.0	-49.8	
2494.50	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
3326.00	-22.0	V	3.0	36.1	1.0	-57.1	-13.0	-44.1	
1663.00	-28.3	H	3.0	37.0	1.0	-64.3	-13.0	-51.3	
2494.50	-24.8	H	3.0	36.4	1.0	-60.2	-13.0	-47.2	
3326.00	-21.8	H	3.0	36.1	1.0	-56.9	-13.0	-43.9	
16QAM									
High Ch, 846.5									
1693.00	-27.3	V	3.0	37.0	1.0	-63.3	-13.0	-50.3	
2539.50	-23.3	V	3.0	36.4	1.0	-58.8	-13.0	-45.8	
3386.00	-21.1	V	3.0	36.1	1.0	-56.2	-13.0	-43.2	
1693.00	-27.1	H	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2539.50	-20.7	H	3.0	36.4	1.0	-56.1	-13.0	-43.1	
3386.00	-21.7	H	3.0	36.1	1.0	-56.8	-13.0	-43.8	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement												
Company:		LG Electronics										
Project #:		15I20413										
Date:		4/13/2015										
Test Engineer:		R.Z										
Configuration:		EUT/ AC Charger/ Headset										
Location:		Chamber G										
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	-27.6	V	3.0	37.0	1.0	-63.6	-13.0	-50.6		
		2449.50	-19.9	V	3.0	36.4	1.0	-55.4	-13.0	-42.4		
	LTE26		3266.00	-21.4	V	3.0	36.2	1.0	-56.5	-13.0	-43.5	
			1633.00	-26.9	H	3.0	37.0	1.0	-63.0	-13.0	-50.0	
			2449.50	-14.4	H	3.0	36.4	1.0	-49.8	-13.0	-36.8	
	5MHz		3266.00	-22.5	H	3.0	36.2	1.0	-57.6	-13.0	-44.6	
		Mid Ch, 831.5										
			1663.00	-26.6	V	3.0	37.0	1.0	-62.6	-13.0	-49.6	
	QPSK		2494.50	-24.3	V	3.0	36.4	1.0	-59.7	-13.0	-46.7	
			3326.00	-21.0	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
			1663.00	-25.8	H	3.0	37.0	1.0	-61.8	-13.0	-48.8	
		2494.50	-23.1	H	3.0	36.4	1.0	-58.5	-13.0	-45.5		
		3326.00	-21.1	H	3.0	36.1	1.0	-56.2	-13.0	-43.2		
High Ch, 846.5												
	1693.00	-27.6	V	3.0	37.0	1.0	-63.6	-13.0	-50.6			
	2539.50	-23.1	V	3.0	36.4	1.0	-58.6	-13.0	-45.6			
	3386.00	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7			
	1693.00	-26.1	H	3.0	37.0	1.0	-62.1	-13.0	-49.1			
	2539.50	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3			
	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 #:		15I20413								
Date:		4/13/2015								
Test Engineer:		R.Z								
Configuration:		EUT/ AC Charger/ Headset								
Location:		Chamber G								
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	-27.5	V	3.0	37.0	1.0	-63.6	-13.0	-50.6	
	2446.50	-19.0	V	3.0	36.4	1.0	-54.4	-13.0	-41.4	
LTE26	3262.00	-21.9	V	3.0	36.2	1.0	-57.1	-13.0	-44.1	
	1631.00	-27.5	H	3.0	37.0	1.0	-63.6	-13.0	-50.6	
	2446.50	-19.1	H	3.0	36.4	1.0	-54.5	-13.0	-41.5	
3MHz	3262.00	-22.1	H	3.0	36.2	1.0	-57.3	-13.0	-44.3	
	Mid Ch, 831.5									
16QAM	1663.00	-29.7	V	3.0	37.0	1.0	-65.7	-13.0	-52.7	
	2494.50	-18.4	V	3.0	36.4	1.0	-53.8	-13.0	-40.8	
	3326.00	-19.7	V	3.0	36.1	1.0	-54.8	-13.0	-41.8	
	1663.00	-23.4	H	3.0	37.0	1.0	-59.4	-13.0	-46.4	
	2494.50	-20.9	H	3.0	36.4	1.0	-56.3	-13.0	-43.3	
	3326.00	-22.2	H	3.0	36.1	1.0	-57.3	-13.0	-44.3	
	High Ch, 847.5									
	1695.00	-21.6	V	3.0	37.0	1.0	-57.6	-13.0	-44.6	
	2542.50	-22.9	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
	3390.00	-21.0	V	3.0	36.1	1.0	-56.1	-13.0	-43.1	
	1695.00	-21.9	H	3.0	37.0	1.0	-57.9	-13.0	-44.9	
	2542.50	-25.2	H	3.0	36.4	1.0	-60.6	-13.0	-47.6	
	3390.00	-21.6	H	3.0	36.1	1.0	-56.7	-13.0	-43.7	