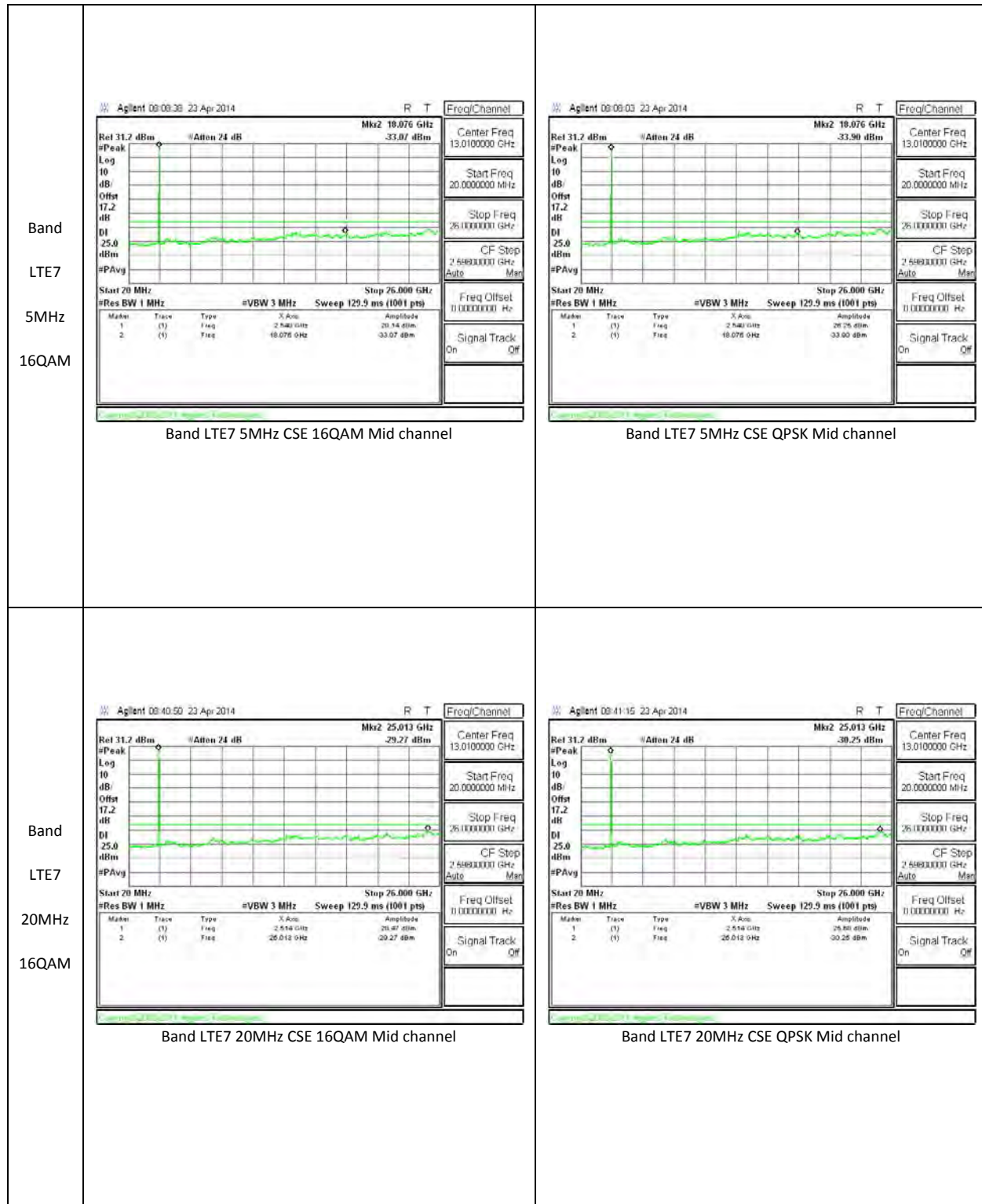
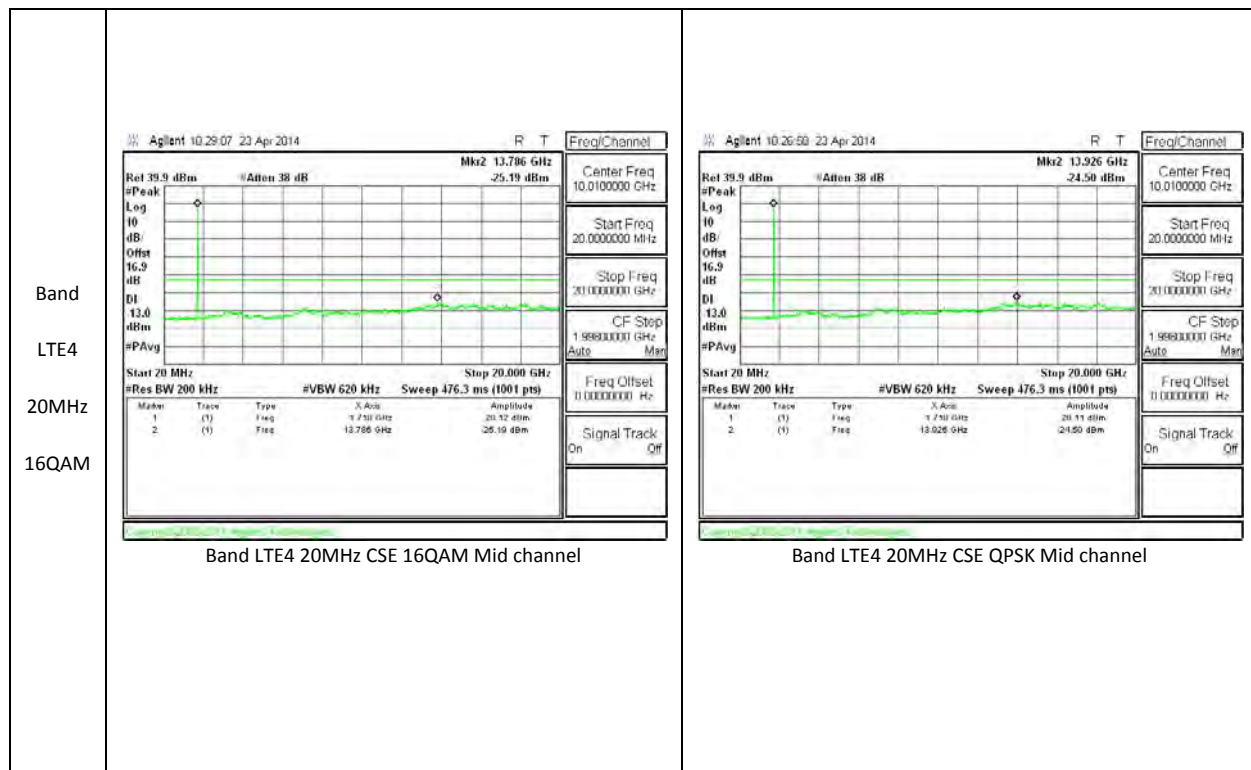
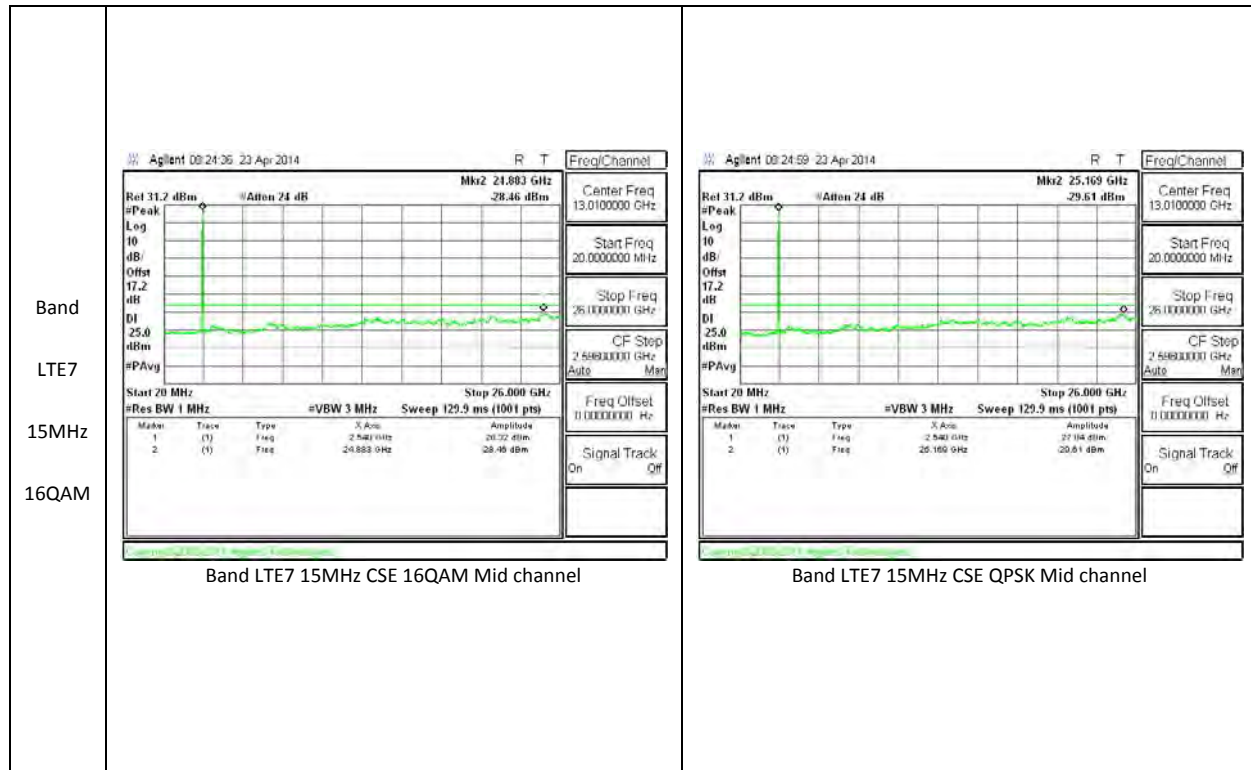
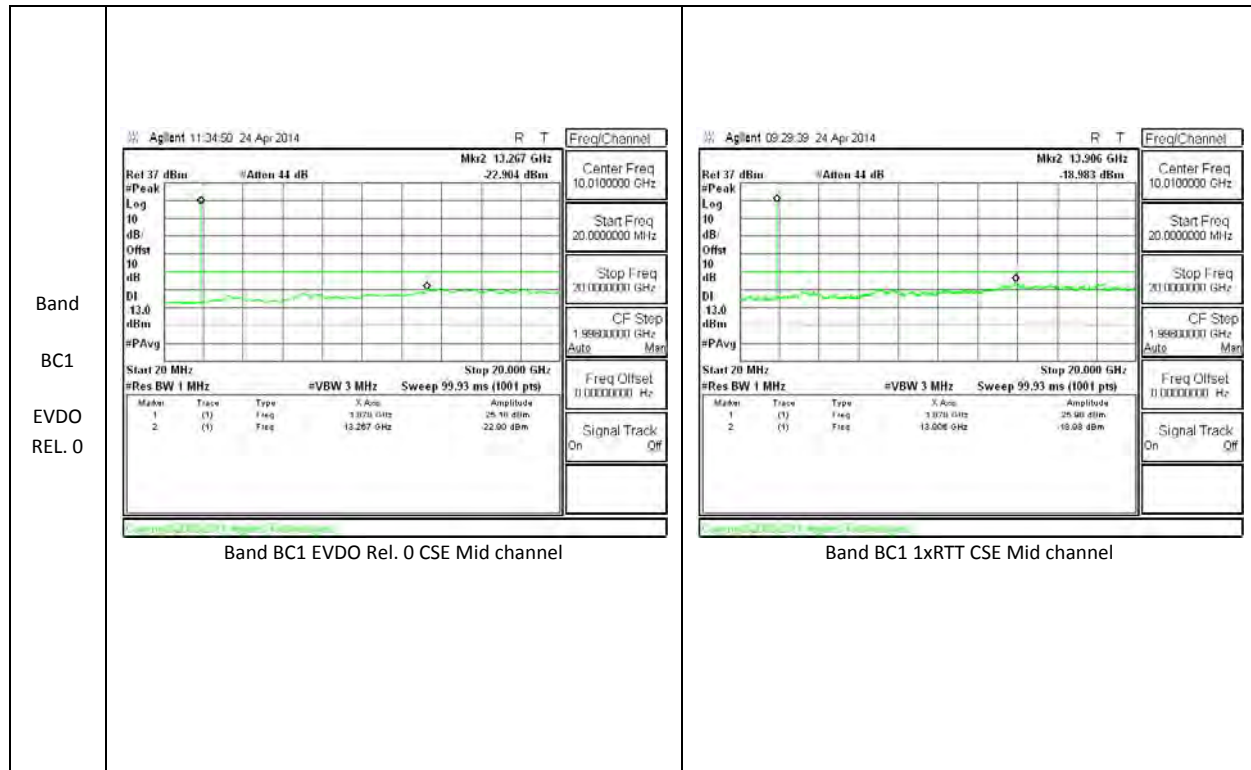






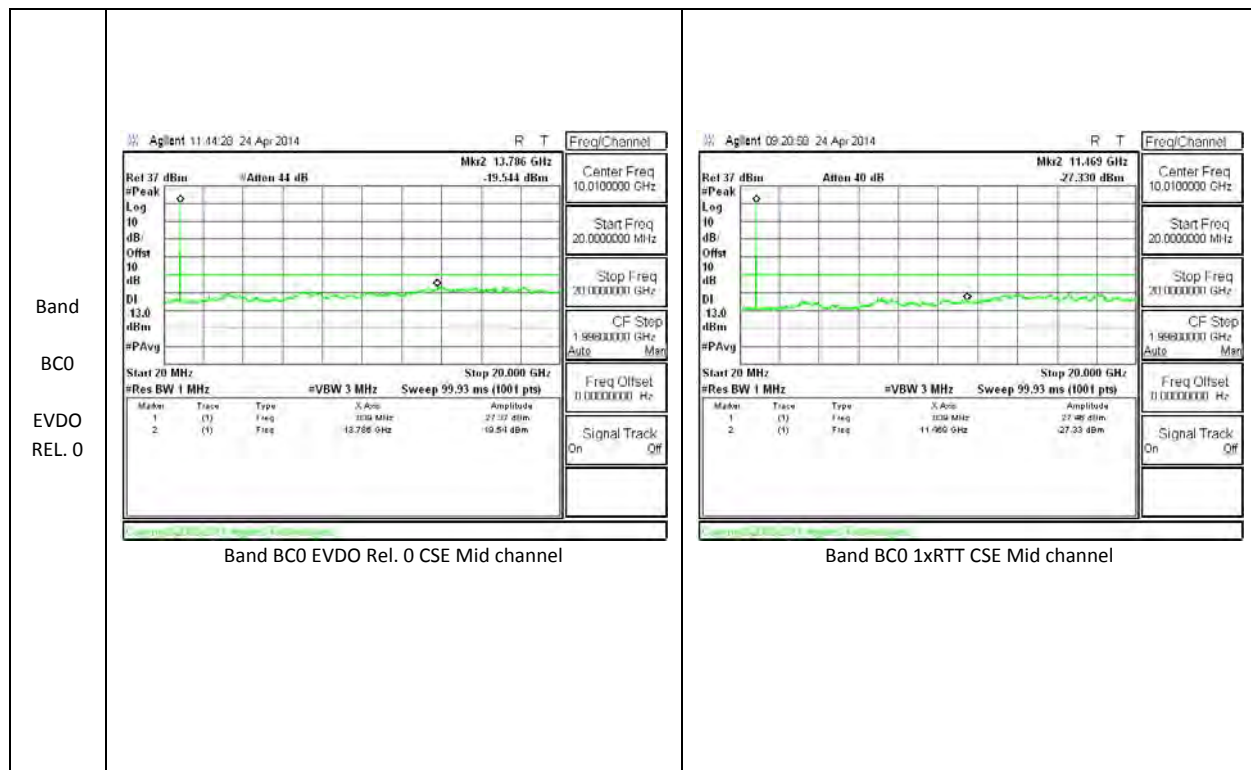
Band LTE4 15MHz 16QAM	Agilent 00:53:49 23 Apr 2014 R T Freq/Channel Rel 39.2 dBm #Athen 34 dB Mk2 13.946 GHz -22.94 dBm Center Freq 10.0100000 GHz Start Freq 20.0000000 MHz Stop Freq 20.0000000 GHz CF Step 1.98800000 GHz Auto Man Start 20 MHz Res BW 1 MHz VBW 3 MHz Sweep 99.93 ms (1001 pts) Stop 20.000 GHz Marker Trace Type Freq Amplitude 1 (1) Freq 13.946 GHz -22.94 dBm 2 (1) Freq 13.946 GHz -22.94 dBm Signal Track On Off Band LTE4 15MHz CSE 16QAM Mid channel
	Agilent 00:56:42 23 Apr 2014 R T Freq/Channel Rel 39.2 dBm #Athen 34 dB Mk2 14.206 GHz -22.43 dBm Center Freq 10.0100000 GHz Start Freq 20.0000000 MHz Stop Freq 20.0000000 GHz CF Step 1.98800000 GHz Auto Man Start 20 MHz Res BW 1 MHz VBW 3 MHz Sweep 99.93 ms (1001 pts) Stop 20.000 GHz Marker Trace Type Freq Amplitude 1 (1) Freq 14.206 GHz -22.43 dBm 2 (1) Freq 14.206 GHz -22.43 dBm Signal Track On Off Band LTE4 15MHz CSE QPSK Mid channel
Band LTE4 10MHz 16QAM	Agilent 23:57:26 22 Apr 2014 R T Marker Rel 39.2 dBm #Athen 34 dB Mk2 14.026 GHz -22.46 dBm Center Freq 10.0100000 GHz Marker Trace Auto 1 2 2 Readout Frequency Marker Table On Off Marker All Off Start 20 MHz Res BW 1 MHz VBW 3 MHz Sweep 99.93 ms (1001 pts) Stop 20.000 GHz Marker Trace Type Freq Amplitude 1 (1) Freq 14.026 GHz -22.46 dBm 2 (1) Freq 14.026 GHz -22.46 dBm More 2 of 2 Band LTE4 10MHz CSE 16QAM Mid channel
	Agilent 23:59:01 22 Apr 2014 R T Freq/Channel Rel 39.2 dBm #Athen 34 dB Mk2 13.966 GHz -22.52 dBm Center Freq 10.0100000 GHz Start Freq 20.0000000 MHz Stop Freq 20.0000000 GHz CF Step 1.98800000 GHz Auto Man Start 20 MHz Res BW 1 MHz VBW 3 MHz Sweep 99.93 ms (1001 pts) Stop 20.000 GHz Marker Trace Type Freq Amplitude 1 (1) Freq 13.966 GHz -22.52 dBm 2 (1) Freq 13.966 GHz -22.52 dBm Signal Track On Off Band LTE4 10MHz CSE QPSK Mid channel





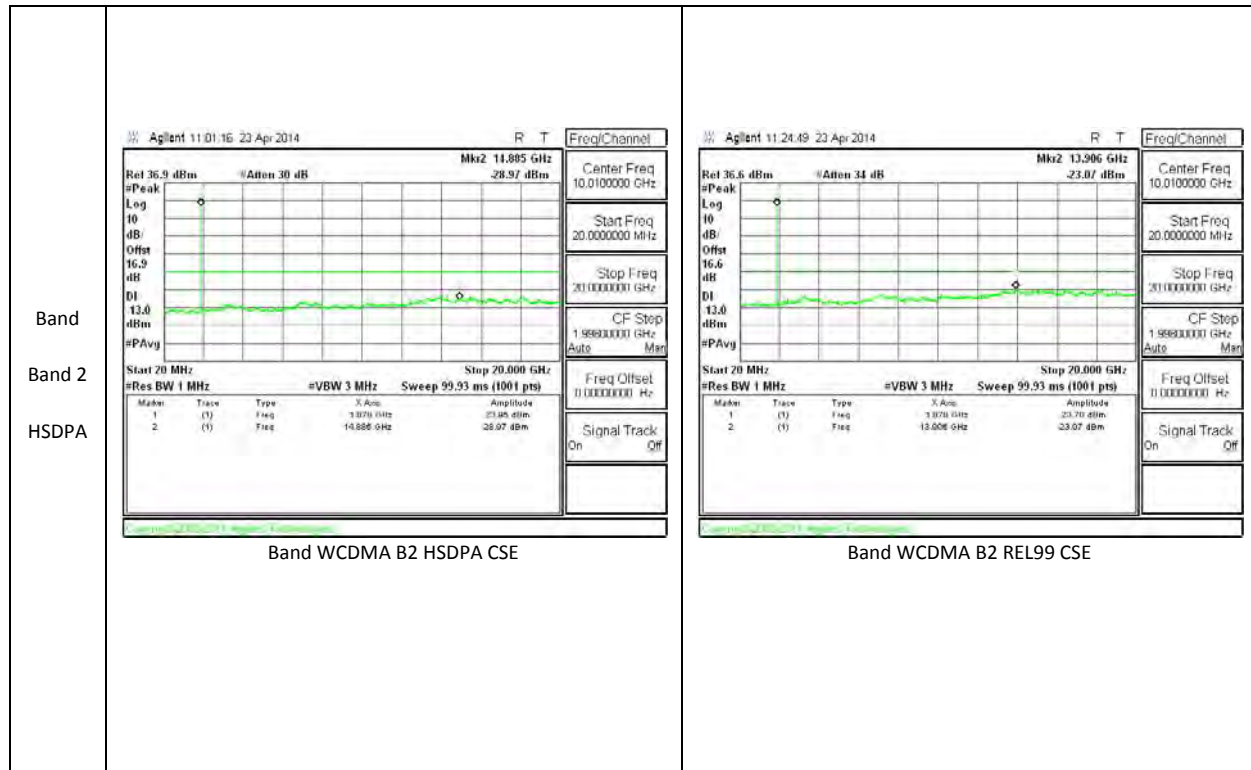
Band BC1 EVDO Rel. 0 CSE Mid channel

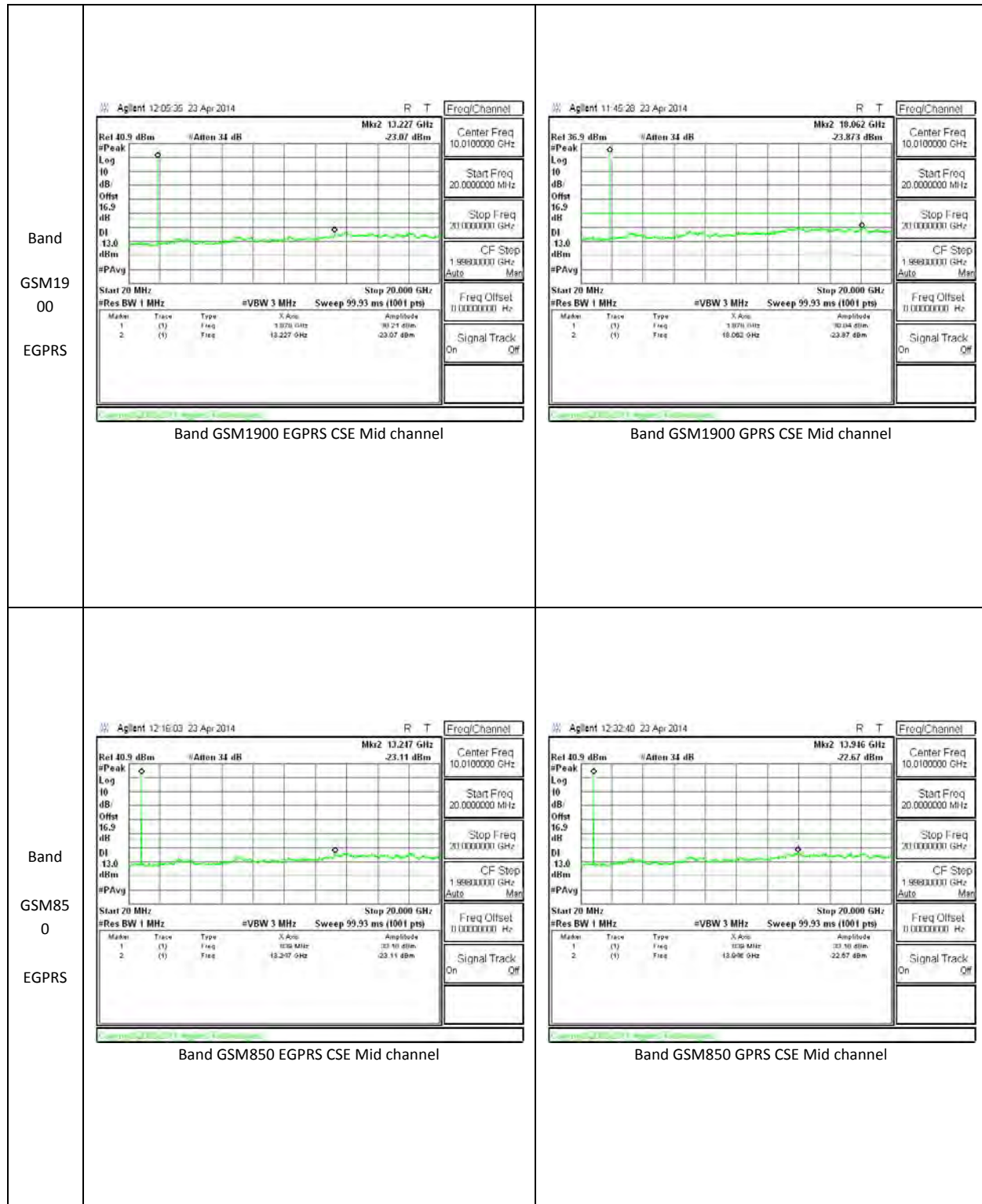
Band BC1 1xRTT CSE Mid channel



Band BC0 EVDO Rel. 0 CSE Mid channel

Band BC0 1xRTT CSE Mid channel





10.4. FREQUENCY STABILITY

RULE PART(S)

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

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.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r01

SOP

Frequency Stability vs Temperature:

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until +50°C is reached. Reference power supply voltage for these tests is 3.8Vdc.

Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case). The test voltage ranges from 3.30 to 4.3 VDC.

RESULTS

See the following pages.

10.4.1. FREQUENCY STABILITY RESULTS

LTE4 Channel 20175 Freq: 1732.5 MHz– MID CHANNEL

Reference Frequency: LTE4 Channel 20175 Freq : 1732.5 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 4331.25 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	1732.500009	-0.001	2.5
3.80	40	1732.500013	-0.003	2.5
3.80	30	1732.500015	-0.004	2.5
3.80	20	1732.500008	0	2.5
3.80	10	1732.500009	-0.001	2.5
3.80	0	1732.500016	-0.005	2.5
3.80	-10	1732.500014	-0.003	2.5
3.80	-20	1732.500009	-0.001	2.5
3.80	-30	1732.500013	-0.003	2.5

Reference Frequency: LTE4 Channel 20175 Freq : 1732.5 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 4331.25 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	1732.500008	0	2.5
3.30	20	1732.500010	-0.001	2.5
4.30	20	1732.500012	-0.002	2.5

LTE13 Channel 21100 Freq: 2535 MHz– MID CHANNEL

Reference Frequency: LTE13 Channel 23230 Freq : 782 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 1955.000 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	782.000012	-0.001	2.5
3.80	40	782.000011	0.000	2.5
3.80	30	782.000009	0.003	2.5
3.80	20	782.000011	0	2.5
3.80	10	782.000012	-0.001	2.5
3.80	0	782.000010	0.001	2.5
3.80	-10	782.000007	0.005	2.5
3.80	-20	782.000009	0.003	2.5
3.80	-30	782.000008	0.004	2.5

Reference Frequency: LTE13 Channel 23230 Freq : 2782MHz @ 20°C Limit: to stay +/- 2.5 ppm = 1955.000 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	2535.000009	0	2.5
3.30	20	2535.000011	-0.003	2.5
4.30	20	2535.000012	-0.004	2.5

LTE7 Channel 21100 Freq: 2535 MHz– MID CHANNEL

Reference Frequency: LTE7 Channel 21100 Freq : 2535 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 6337.500 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	2535.000023	-0.001	2.5
3.80	40	2535.000028	-0.003	2.5
3.80	30	2535.000025	-0.002	2.5
3.80	20	2535.000021	0	2.5
3.80	10	2535.000030	-0.004	2.5
3.80	0	2535.000024	-0.001	2.5
3.80	-10	2535.000017	0.002	2.5
3.80	-20	2535.000021	0.000	2.5
3.80	-30	2535.000027	-0.002	2.5

Reference Frequency: LTE7 Channel 21100 Freq : 2535 MHz @ 20°C Limit: to stay +/- 2.5 ppm = 6337.500 Hz				
Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	20	2535.000021	0	2.5
3.30	20	2535.000026	-0.002	2.5
4.30	20	2535.000024	-0.001	2.5

GSM1900, Channel 661 Freq: 1880MHz– MID CHANNEL

Reference Frequency: GSM1900 Channel 661 Freq : 1880MHz @ 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	1800.00006	-0.003	2.5
3.80	40	1800.000062	-0.004	2.5
3.80	30	1800.000059	-0.003	2.5
3.80	20	1800.000054	0	2.5
3.80	10	1800.000065	-0.006	2.5
3.80	0	1800.000065	-0.006	2.5
3.80	-10	1800.000063	-0.005	2.5
3.80	-20	1800.000063	-0.005	2.5
3.80	-30	1800.000060	-0.003	2.5

Reference Frequency: GSM1900 Channel 661 Freq : 1880MHz @ 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	1800.000052	0	2.5
4.30	20	1800.000051	0.001	2.5
3.30	20	1800.000053	0.000	2.5

GSM850, Channel 190 Freq: 836.6MHz– MID CHANNEL

Power Supply (Vdc)	Environment Temperature (°C)	Frequency Deviation Measured with Time Elapse		
		(MHz)	Delta (ppm)	Limit (ppm)
3.80	50	836.6000232	-0.002	2.5
3.80	40	836.6000224	-0.001	2.5
3.80	30	836.6000256	-0.003	2.5
3.80	20	836.600020	0	2.5
3.80	10	836.6000219	-0.001	2.5
3.80	0	836.6000202	0.000	2.5
3.80	-10	836.6000222	-0.001	2.5
3.80	-20	836.600026	-0.003	2.5
3.80	-30	836.600025	-0.002	2.5

Reference Frequency: GSM1900 Channel 661 Freq : 1880MHz @ 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	836.600020	0	2.5
4.30	20	836.6000211	0.000	2.5
3.30	20	836.6000236	-0.002	2.5

11. RADIATED TEST RESULTS

11.1. RADIATED POWER (ERP & EIRP)

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, 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.

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

TEST RESULTS

11.1.1. ERP/EIRP Results

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC1	1xRTT	25	1851.25	21.084	128.35
		600	1880	21.05	127.35
		1175	1908.75	20.82	120.78
	EVDO REL. 0	25	1851.25	19.92	98.17
		600	1880	21.8	151.36
		1175	1908.75	20.44	110.66

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
BC0	1xRTT	1013	824.7	21.121	129.45
		384	836.52	21.389	137.69
		777	848.31	21.831	152.44
	EVDO REL. 0	1013	824.7	20.251	105.95
		384	836.52	20.001	100.02
		777	848.31	21.392	137.78

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
Band 2	REL99	9262	1852.4	20.9	123.03
		9400	1880	21.4	138.04
		9538	1907.6	20.81	120.5
	HSDPA	9262	1852.4	21.25	133.35
		9400	1880	22.87	193.64
		9538	1907.6	22.58	181.13

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
Band 5	REL99	4132	826.4	17.711	59.03
		4183	836.6	18.281	67.31
		4233	846.6	18.581	72.13
	HSDPA	4132	826.4	18.101	64.58
		4183	836.6	18.921	78
		4233	846.6	18.681	73.81

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
GSM1900	GPRS	512	1850.2	25.88	387.26
		661	1880	29.33	857.04
		810	1909.8	27.6	575.44
	EGPRS	512	1850.2	24.6	288.4
		661	1880	27.09	511.68
		810	1909.8	26.44	440.55

Band	Mode	Channel	f(MHz)	ERP / EIRP	
				dBm	mW
GSM850	GPRS	128	824.2	26.611	458.25
		190	836.6	26.801	478.74
		251	848.8	27.551	568.98
	EGPRS	128	824.2	25.351	342.85
		190	836.6	24.491	281.25
		251	848.8	24.891	308.39

11.1.2. LTE ERP/EIRP Results

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE13	10	QPSK	1/0	782	18.00	63.10
			1/0	782	18.00	63.10
			1/0	782	18.00	63.10
		16QAM	1/0	782	17.70	58.88
			1/0	782	17.70	58.88
			1/0	782	17.70	58.88

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE7	20	QPSK	1/0	2510	18.07	64.12
			1/0	2535	18.80	75.86
			1/0	2560	17.50	56.23
		16QAM	1/0	2510	17.27	53.33
			1/0	2535	18.00	63.10
			1/0	2560	16.70	46.77

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE7	15	QPSK	1/0	2507.5	18.80	75.86
			1/0	2535	18.70	74.13
			1/0	2562.5	18.70	74.13
		16QAM	1/0	2507.5	18.30	67.61
			1/0	2535	18.80	75.86
			1/0	2562.5	16.60	45.71

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE7	10	QPSK	1/0	2505	18.72	74.47
			1/0	2535	18.20	66.07
			1/0	2565	17.55	56.89
		16QAM	1/0	2505	17.92	61.94
			1/0	2535	17.22	52.72
			1/0	2565	16.75	47.32

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE7	5	QPSK	1/0	2502.5	18.62	72.78
			1/0	2535	17.72	59.16
			1/0	2567.5	17.34	54.20
		16QAM	1/0	2502.5	17.82	60.53
			1/0	2535	16.62	45.92
			1/0	2567.5	15.55	35.89

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	20	QPSK	1/0	1720	20.84	121.34
			1/0	1732.5	21.84	152.76
			1/0	1745	22.84	192.31
		16QAM	1/0	1720	20.04	100.93
			1/0	1732.5	20.94	124.17
			1/0	1745	21.94	156.31

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	15	QPSK	1/0	1717.5	21.44	139.32
			1/0	1732.5	22.49	177.42
			1/0	1747.5	22.74	187.93

		16QAM	1/0	1717.5	20.54	113.24
			1/0	1732.5	21.64	145.88
			1/0	1747.5	21.64	145.88

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	10	QPSK	1/0	1715	21.74	149.28
			1/0	1732.5	22.25	167.88
			1/0	1750	22.65	184.08
		16QAM	1/0	1715	20.84	121.34
			1/0	1732.5	21.55	142.89
			1/0	1750	21.85	153.11

Band	BW (MHz)	Mode	RB/RB Size	f (MHz)	ERP / EIRP	
					dBm	mW
LTE4	5	QPSK	1/0	1712.5	21.76	149.97
			1/0	1732.5	22.18	165.20
			1/0	1752.5	22.82	191.43
		16QAM	1/0	1712.5	20.74	118.58
			1/0	1732.5	21.45	139.64
			1/0	1752.5	21.17	130.92

11.1.3. ERP/EIRP DATA

Band LTE13 10MHz 16QAM	High Frequency Substitution Measurement Compliance Certification Services Chamber A																																																																																								
	Company: LG																																																																																								
	Project #: 14U17502																																																																																								
	Date: 05/08/14																																																																																								
	Test Engineer: R. Alegre																																																																																								
	Configuration: X position																																																																																								
	Mode: LTE_B13_10MHz_16QAM																																																																																								
	Test Equipment:																																																																																								
	Receiving: Sunol T130, and Chamber A Cable (Setup this one for testing EUT)																																																																																								
	Substitution: Dipole S/N: 00022117, 8ft SMA Cable (SN # 208955002) Warehouse.																																																																																								
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 10%;">f MHz</th> <th style="width: 15%;">SG reading (dBm)</th> <th style="width: 10%;">Ant. Pol. (H/V)</th> <th style="width: 10%;">Cable Loss (dB)</th> <th style="width: 10%;">Antenna Gain (dBd)</th> <th style="width: 10%;">ERP (dBm)</th> <th style="width: 10%;">Limit (dBm)</th> <th style="width: 10%;">Margin (dB)</th> <th style="width: 15%;">Notes</th> </tr> </thead> <tbody> <tr> <td>Low Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>782.000</td> <td>12.17</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>11.27</td> <td>34.8</td> <td>-23.5</td> <td></td> </tr> <tr> <td>782.000</td> <td>18.91</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>18.01</td> <td>34.8</td> <td>-16.8</td> <td></td> </tr> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NEW</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>									f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch																		Mid Ch									782.000	12.17	V	0.9	0.0	11.27	34.8	-23.5		782.000	18.91	H	0.9	0.0	18.01	34.8	-16.8		Mid Ch																		NEW								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																	
Low Ch																																																																																									
Mid Ch																																																																																									
782.000	12.17	V	0.9	0.0	11.27	34.8	-23.5																																																																																		
782.000	18.91	H	0.9	0.0	18.01	34.8	-16.8																																																																																		
Mid Ch																																																																																									
NEW																																																																																									
Rev. 3.17.11																																																																																									

Band LTE13 10MHz QPSK	High Frequency Substitution Measurement Compliance Certification Services Chamber A Company: LG Project #: 14U17502 Date: 05/08/14 Test Engineer: R. Alegre Configuration: X position Mode: LTE_B13_10MHz_QPSK Test Equipment: Receiving: Sunol T130, and Chamber A Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00022117, 8ft SMA Cable (SN # 208955002) Warehouse. <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>Low Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>782.000</td> <td>13.13</td> <td>V</td> <td>0.9</td> <td>0.0</td> <td>12.23</td> <td>34.8</td> <td>-22.6</td> <td></td> </tr> <tr> <td>782.000</td> <td>19.76</td> <td>H</td> <td>0.9</td> <td>0.0</td> <td>18.86</td> <td>34.8</td> <td>-15.9</td> <td></td> </tr> <tr> <td>Mid Ch</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NEW</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Rev. 3.17.11	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch																		Mid Ch									782.000	13.13	V	0.9	0.0	12.23	34.8	-22.6		782.000	19.76	H	0.9	0.0	18.86	34.8	-15.9		Mid Ch																		NEW								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																										
Low Ch																																																																																		
Mid Ch																																																																																		
782.000	13.13	V	0.9	0.0	12.23	34.8	-22.6																																																																											
782.000	19.76	H	0.9	0.0	18.86	34.8	-15.9																																																																											
Mid Ch																																																																																		
NEW																																																																																		

Band

LTE7

20MHz

16QAM

High Frequency Substitution Measurement

Compliance Certification Services Chamber B

Company: LG

Project #: 14U17502

Date: 05/12/14

Test Engineer: K.Kedida

Configuration: EUT only, X position

Mode: LTE B7 20M 16QAM

Test Equipment:

Receiving: Horn T345, and Chamber B SMA Cables

Substitution: Horn T59 Substitution, 4ft SMA Cable (244639001) Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
2510.00	3.00	V	0.9	9.5	11.57	38.5	-26.9	
2510.00	6.60	H	0.9	9.5	15.17	38.5	-23.3	
Mid Ch								
2535.00	2.63	V	0.9	9.5	11.23	38.5	-27.2	
2535.00	7.61	H	0.9	9.5	16.21	38.5	-22.2	
High Ch								
2560.00	1.90	V	0.9	9.7	10.70	38.5	-27.8	
2560.00	5.70	H	0.9	9.7	14.50	38.5	-24.0	

Rev. 3.17.11

Band LTE7 15MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B Company: LG Project #: 14U17502 Date: 05/12/14 Test Engineer: K.Kedida Configuration: EUT only, X position Mode: LTE B7 15M 16QAM Test Equipment: Receiving: Horn T345, and Chamber B SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (244639001) Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	2507.50	2.60	V	0.9	9.5	11.20	33.0	-21.8	
	2507.50	7.60	H	0.9	9.5	16.20	33.0	-16.8	
	Mid Ch								
	2535.00	2.93	V	0.9	9.5	11.53	33.0	-21.5	
	2535.00	7.41	H	0.9	9.5	16.01	33.0	-17.0	
	High Ch								
	2562.50	1.80	V	0.9	9.6	10.50	33.0	-22.5	
	2562.50	5.70	H	0.9	9.6	14.40	33.0	-18.6	
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band

LTE7

10MHz

16QAM

High Frequency Substitution Measurement

UL Verification Services, Inc. Chamber B

Company: LG

Project #: 14U17502

Date: 05/12/14

Test Engineer: K.Kedida

Configuration: EUT only, X position

Mode: TX, L TE band 7, 10MHz, 16QAM

Test Equipment:

Receiving: Horn T345, and Chamber B SMA Cables

Substitution: Horn T59 Substitution, 4ft SMA Cable (244639001) Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
2505.00	2.90	V	0.9	9.5	11.52	33.0	-21.5	
2505.00	7.30	H	0.9	9.5	15.92	33.0	-17.1	
Mid Ch								
2535.00	3.43	V	0.9	9.5	12.05	33.0	-21.0	
2535.00	6.81	H	0.9	9.5	15.43	33.0	-17.6	
High Ch								
2565.00	1.80	V	0.9	9.5	10.45	33.0	-22.6	
2565.00	5.90	H	0.9	9.5	14.55	33.0	-18.5	

Rev. 3.17.11

Note: For Band 4 EIRP limit is 30dBm

Band LTE7 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B Company: LG Project #: 14U17502 Date: 05/12/14 Test Engineer: K.Kedida Configuration: EUT only, X position Mode: TX, L TE band 7, 10MHz, QPSK Test Equipment: Receiving: Horn T345, and Chamber B SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (244639001) Warehouse <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>f MHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Cable Loss (dB)</th> <th>Antenna Gain (dBd)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Margin (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="9">Low Ch</td> </tr> <tr> <td>2505.00</td> <td>3.71</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>12.33</td> <td>33.0</td> <td>-20.7</td> <td></td> </tr> <tr> <td>2505.00</td> <td>8.10</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>16.72</td> <td>33.0</td> <td>-16.3</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>2535.00</td> <td>4.13</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>12.75</td> <td>33.0</td> <td>-20.3</td> <td></td> </tr> <tr> <td>2535.00</td> <td>7.71</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>16.33</td> <td>33.0</td> <td>-16.7</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>2565.00</td> <td>2.60</td> <td>V</td> <td>0.9</td> <td>9.5</td> <td>11.25</td> <td>33.0</td> <td>-21.8</td> <td></td> </tr> <tr> <td>2565.00</td> <td>6.70</td> <td>H</td> <td>0.9</td> <td>9.5</td> <td>15.35</td> <td>33.0</td> <td>-17.7</td> <td></td> </tr> </tbody> </table> Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes	Low Ch									2505.00	3.71	V	0.9	9.5	12.33	33.0	-20.7		2505.00	8.10	H	0.9	9.5	16.72	33.0	-16.3		Mid Ch									2535.00	4.13	V	0.9	9.5	12.75	33.0	-20.3		2535.00	7.71	H	0.9	9.5	16.33	33.0	-16.7		High Ch									2565.00	2.60	V	0.9	9.5	11.25	33.0	-21.8		2565.00	6.70	H	0.9	9.5	15.35	33.0	-17.7	
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes																																																																																			
Low Ch																																																																																											
2505.00	3.71	V	0.9	9.5	12.33	33.0	-20.7																																																																																				
2505.00	8.10	H	0.9	9.5	16.72	33.0	-16.3																																																																																				
Mid Ch																																																																																											
2535.00	4.13	V	0.9	9.5	12.75	33.0	-20.3																																																																																				
2535.00	7.71	H	0.9	9.5	16.33	33.0	-16.7																																																																																				
High Ch																																																																																											
2565.00	2.60	V	0.9	9.5	11.25	33.0	-21.8																																																																																				
2565.00	6.70	H	0.9	9.5	15.35	33.0	-17.7																																																																																				

Band LTE7 5MHz 16QAM	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B Company: LG Project #: 14U17502 Date: 05/12/14 Test Engineer: K.Kedida Configuration: EUT only, X position Mode: LTE band 7, 5MHz, 16QAM Test Equipment: Receiving: Horn T345, and Chamber B SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (244639001) Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	2502.50	2.50	V	0.9	9.5	11.12	33.0	-21.9	
	2502.50	7.20	H	0.9	9.5	15.82	33.0	-17.2	
	Mid Ch								
	2535.00	3.03	V	0.9	9.5	11.65	33.0	-21.4	
	2535.00	6.21	H	0.9	9.5	14.83	33.0	-18.2	
	High Ch								
	2567.50	2.20	V	0.9	9.5	10.85	33.0	-22.2	
	2567.50	5.60	H	0.9	9.5	14.25	33.0	-18.8	
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band

LTE7

5MHz

QPSK

High Frequency Substitution Measurement

UL Verification Services, Inc. Chamber B

Company: LG

Project #: 14U17502

Date: 05/12/14

Test Engineer: K.Kedida

Configuration: EUT only, X position

Mode: LTE band 7, 5MHz, QPSK

Test Equipment:

Receiving: Horn T345, and Chamber B SMA Cables

Substitution: Horn T59 Substitution, 4ft SMA Cable (244639001) Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
2502.50	3.30	V	0.9	9.5	11.92	33.0	-21.1	
2502.50	8.00	H	0.9	9.5	16.62	33.0	-16.4	
Mid Ch								
2535.00	3.83	V	0.9	9.5	12.45	33.0	-20.6	
2535.00	7.31	H	0.9	9.5	15.93	33.0	-17.1	
High Ch								
2567.50	3.10	V	0.9	9.5	11.75	33.0	-21.3	
2567.50	6.50	H	0.9	9.5	15.15	33.0	-17.9	

Rev. 3.17.11

Note: For Band 4 EIRP limit is 30dBm

Band

LTE4

20MHz

16QAM

High Frequency Substitution Measurement

UL Verification Services, Inc. Chamber B

Company: LG

Project #: 14U17502

Date: 05/12/14

Test Engineer: K.Kedida

Configuration: EUT only, X position

Mode: LTE_B4_20MHz_16QAM

Test Equipment:

Receiving: Horn T345, and Chamber B SMA Cables

Substitution: Horn T59 Substitution, 4ft SMA Cable (244639001) Warehouse

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1.720	9.7	V	0.85	8.29	17.14	30.0	-12.9	
1.720	12.6	H	0.85	8.29	20.04	30.0	-10.0	
Mid Ch								
1.732	11.7	V	0.85	8.29	19.13	30.0	-10.9	
1.732	13.5	H	0.85	8.29	20.94	30.0	-9.1	
High Ch								
1.745	12.6	V	0.85	8.29	20.04	30.0	-10.0	
1.745	14.5	H	0.85	8.29	21.94	30.0	-8.1	

Rev. 3.17.11

Band LTE4 20MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B Company: LG Project #: 14U17502 Date: 05/12/14 Test Engineer: K.Kedida Configuration: EUT only, X position Mode: LTE_B4_20MHz_QPSK Test Equipment: Receiving: Horn T345, and Chamber B SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (244639001) Warehouse <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>f GHz</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>1.720</td> <td>10.5</td> <td>V</td> <td>0.85</td> <td>8.29</td> <td>17.94</td> <td>30.0</td> <td>-12.1</td> <td></td> </tr> <tr> <td>1.720</td> <td>13.4</td> <td>H</td> <td>0.85</td> <td>8.29</td> <td>20.84</td> <td>30.0</td> <td>-9.2</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1.732</td> <td>12.5</td> <td>V</td> <td>0.85</td> <td>8.29</td> <td>19.93</td> <td>30.0</td> <td>-10.1</td> <td></td> </tr> <tr> <td>1.732</td> <td>14.4</td> <td>H</td> <td>0.85</td> <td>8.29</td> <td>21.84</td> <td>30.0</td> <td>-8.2</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1.745</td> <td>13.4</td> <td>V</td> <td>0.85</td> <td>8.29</td> <td>20.84</td> <td>30.0</td> <td>-9.2</td> <td></td> </tr> <tr> <td>1.745</td> <td>15.4</td> <td>H</td> <td>0.85</td> <td>8.29</td> <td>22.84</td> <td>30.0</td> <td>-7.2</td> <td></td> </tr> </tbody> </table> Rev. 3.17.11	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									1.720	10.5	V	0.85	8.29	17.94	30.0	-12.1		1.720	13.4	H	0.85	8.29	20.84	30.0	-9.2		Mid Ch									1.732	12.5	V	0.85	8.29	19.93	30.0	-10.1		1.732	14.4	H	0.85	8.29	21.84	30.0	-8.2		High Ch									1.745	13.4	V	0.85	8.29	20.84	30.0	-9.2		1.745	15.4	H	0.85	8.29	22.84	30.0	-7.2	
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																			
Low Ch																																																																																											
1.720	10.5	V	0.85	8.29	17.94	30.0	-12.1																																																																																				
1.720	13.4	H	0.85	8.29	20.84	30.0	-9.2																																																																																				
Mid Ch																																																																																											
1.732	12.5	V	0.85	8.29	19.93	30.0	-10.1																																																																																				
1.732	14.4	H	0.85	8.29	21.84	30.0	-8.2																																																																																				
High Ch																																																																																											
1.745	13.4	V	0.85	8.29	20.84	30.0	-9.2																																																																																				
1.745	15.4	H	0.85	8.29	22.84	30.0	-7.2																																																																																				

Band

LTE4

15MHz

16QAM

High Frequency Substitution Measurement

UL Verification Services, Inc. Chamber B

Company: LG

Project #: 14U17502

Date: 05/12/14

Test Engineer: K.Kedida

Configuration: EUT only, X position

Mode: LTE_B4_15MHz_16QAM

Test Equipment:

Receiving: Horn T345, and Chamber B SMA Cables

Substitution: Horn T59 Substitution, 4ft SMA Cable (244639001) Warehouse

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1.718	9.6	V	0.85	8.29	17.04	30.0	-13.0	
1.718	13.1	H	0.85	8.29	20.54	30.0	-9.5	
Mid Ch								
1.732	12.1	V	0.85	8.29	19.53	30.0	-10.5	
1.732	14.2	H	0.85	8.29	21.64	30.0	-8.4	
High Ch								
1.748	12.7	V	0.85	8.29	20.14	30.0	-9.9	
1.748	14.2	H	0.85	8.29	21.64	30.0	-8.4	

Rev. 3.17.11

Band LTE4 15MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B Company: LG Project #: 14U17502 Date: 05/12/14 Test Engineer: K.Kedida Configuration: EUT only, X position Mode: LTE_B4_15MHz_QPSK Test Equipment: Receiving: Horn T345, and Chamber B SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (244639001) Warehouse <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th>f GHz</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>1.718</td> <td>10.4</td> <td>V</td> <td>0.85</td> <td>8.29</td> <td>17.84</td> <td>30.0</td> <td>-12.2</td> <td></td> </tr> <tr> <td>1.718</td> <td>14.0</td> <td>H</td> <td>0.85</td> <td>8.29</td> <td>21.44</td> <td>30.0</td> <td>-8.6</td> <td></td> </tr> <tr> <td colspan="9">Mid Ch</td> </tr> <tr> <td>1.732</td> <td>13.0</td> <td>V</td> <td>0.85</td> <td>8.29</td> <td>20.43</td> <td>30.0</td> <td>-9.6</td> <td></td> </tr> <tr> <td>1.732</td> <td>15.1</td> <td>H</td> <td>0.85</td> <td>8.29</td> <td>22.49</td> <td>30.0</td> <td>-7.5</td> <td></td> </tr> <tr> <td colspan="9">High Ch</td> </tr> <tr> <td>1.748</td> <td>13.6</td> <td>V</td> <td>0.85</td> <td>8.29</td> <td>21.04</td> <td>30.0</td> <td>-9.0</td> <td></td> </tr> <tr> <td>1.748</td> <td>15.3</td> <td>H</td> <td>0.85</td> <td>8.29</td> <td>22.74</td> <td>30.0</td> <td>-7.3</td> <td></td> </tr> </tbody> </table> Rev. 3.17.11	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch									1.718	10.4	V	0.85	8.29	17.84	30.0	-12.2		1.718	14.0	H	0.85	8.29	21.44	30.0	-8.6		Mid Ch									1.732	13.0	V	0.85	8.29	20.43	30.0	-9.6		1.732	15.1	H	0.85	8.29	22.49	30.0	-7.5		High Ch									1.748	13.6	V	0.85	8.29	21.04	30.0	-9.0		1.748	15.3	H	0.85	8.29	22.74	30.0	-7.3	
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																			
Low Ch																																																																																											
1.718	10.4	V	0.85	8.29	17.84	30.0	-12.2																																																																																				
1.718	14.0	H	0.85	8.29	21.44	30.0	-8.6																																																																																				
Mid Ch																																																																																											
1.732	13.0	V	0.85	8.29	20.43	30.0	-9.6																																																																																				
1.732	15.1	H	0.85	8.29	22.49	30.0	-7.5																																																																																				
High Ch																																																																																											
1.748	13.6	V	0.85	8.29	21.04	30.0	-9.0																																																																																				
1.748	15.3	H	0.85	8.29	22.74	30.0	-7.3																																																																																				

Band

LTE4

10MHz

16QAM

High Frequency Substitution Measurement

UL Verification Services, Inc. Chamber B

Company: LG

Project #: 14U17502

Date: 05/12/14

Test Engineer: K.Kedida

Configuration: EUT only, X position

Mode: LTE_B4_10MHz_16QAM

Test Equipment:

Receiving: Horn T345, and Chamber B SMA Cables

Substitution: Horn T59 Substitution, 4ft SMA Cable (244639001) Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1715.00	10.20	V	0.9	8.3	17.64	30.0	-12.4	
1715.00	13.40	H	0.9	8.3	20.84	30.0	-9.2	
Mid Ch								
1732.50	12.19	V	0.9	8.2	19.54	30.0	-10.5	
1732.50	14.20	H	0.9	8.2	21.55	30.0	-8.5	
High Ch								
1750.00	11.70	V	0.9	8.2	19.05	30.0	-11.0	
1750.00	14.50	H	0.9	8.2	21.85	30.0	-8.2	

Rev. 3.17.11

Note: For Band 4 EIRP limit is 30dBm

Band LTE4 10MHz QPSK	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B Company: LG Project #: 14U17502 Date: 05/12/14 Test Engineer: K.Kedida Configuration: EUT only, X position Mode: LTE_B4_10MHz_QPSK Test Equipment: Receiving: Horn T345, and Chamber B SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (244639001) Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1715.00	10.70	V	0.9	8.3	18.14	30.0	-11.9	
	1715.00	14.30	H	0.9	8.3	21.74	30.0	-8.3	
	Mid Ch								
	1732.50	13.09	V	0.9	8.2	20.44	30.0	-9.6	
	1732.50	14.90	H	0.9	8.2	22.25	30.0	-7.8	
	High Ch								
	1750.00	12.80	V	0.9	8.2	20.15	30.0	-9.9	
	1750.00	15.30	H	0.9	8.2	22.65	30.0	-7.3	
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band

LTE4

5MHz

16QAM

High Frequency Fundamental Measurement

Compliance Certification Services Chamber B

Company: LG

Project #: 14U17502

Date: 05/12/14

Test Engineer: Oren/Kiya

Configuration: EUT only, X position

Mode: LTE_B4_5MHz_16QAM

Test Equipment:

Receiving: Horn T345, and Chamber B SMA Cables

Substitution: Horn T59 Substitution, 4ft SMA Cable (244639001) Warehouse

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1.713	10.0	V	0.85	8.29	17.44	30.0	-12.6	
1.713	13.3	H	0.85	8.29	20.74	30.0	-9.3	
Mid Ch								
1.733	12.0	V	0.85	8.29	19.44	30.0	-10.6	
1.733	14.0	H	0.85	8.29	21.45	30.0	-8.6	
High Ch								
1.753	11.1	V	0.85	7.92	18.17	30.0	-11.8	
1.753	14.1	H	0.85	7.92	21.17	30.0	-8.8	

Rev. 3.17.11

Band LTE4 5MHz QPSK	High Frequency Fundamental Measurement Compliance Certification Services Chamber B Company: LG Project #: 14U17502 Date: 05/12/14 Test Engineer: K.Kedida Configuration: EUT only, X position Mode: LTE_B4_5MHz_QPSK Test Equipment: Receiving: Horn T345, and Chamber B SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable (244639001) Warehouse							
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta
	GHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)
	Low Ch							
	1.713	10.9	V	0.85	8.29	18.33	30.0	-11.7
	1.713	14.3	H	0.85	8.29	21.76	30.0	-8.2
	Mid Ch							
	1.733	13.3	V	0.85	8.29	20.78	30.0	-9.2
	1.733	14.7	H	0.85	8.29	22.18	30.0	-7.8
	High Ch							
	1.753	12.4	V	0.85	7.92	19.47	30.0	-10.5
	1.753	15.8	H	0.85	7.92	22.82	30.0	-7.2
Rev. 3.17.11								

Band

BC1

EVDO

REL. 0

High Frequency Fundamental Measurement

Compliance Certification Services Chamber D

Company:

Project #:

Date:

Test Engineer:

Configuration:

Mode:

Test Equipment:

Receiving: T712, and Chamber D SMA Cables

Substitution: Horn T217 Substitution, 4ft SMA Cable Warehouse

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1.851	7.7	V	0.5	6.6	13.79	33.0	-19.2	
1.851	13.8	H	0.5	6.6	19.92	33.0	-13.1	
Mid Ch								
1.880	5.6	V	0.5	6.5	11.64	33.0	-21.4	
1.880	15.8	H	0.5	6.5	21.80	33.0	-11.2	
High Ch								
1.909	7.0	V	0.5	6.2	12.70	33.0	-20.3	
1.909	14.7	H	0.5	6.2	20.44	33.0	-12.6	

Rev. 3.17.11

Band

BC1

1xRTT

High Frequency Substitution Measurement

UL Verification Services, Inc. Chamber D

Company:

Project #:

Date:

Test Engineer:

Configuration:

Mode:

LG

14U17501

4/29/14

D. Soper

EUT, X Position

CDMA RTT BC1

Test Equipment:

Receiving: Horn T712, and Chamber D SMA Cables

Substitution: Horn T217 Substitution, 4ft SMA Cable Warehouse

f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
Low Ch								
1851.25	7.91	V	0.5	6.6	14.01	33.0	-19.0	
1851.25	14.98	H	0.5	6.6	21.08	33.0	-11.9	
Mid Ch								
1880.00	6.50	V	0.5	6.5	12.50	33.0	-20.5	
1880.00	15.05	H	0.5	6.5	21.05	33.0	-12.0	
High Ch								
1908.75	6.23	V	0.5	6.2	11.93	33.0	-21.1	
1908.75	15.12	H	0.5	6.2	20.82	33.0	-12.2	

Rev. 3.17.11

Band

BC0

EVDO
REL. 0

High Frequency Substitution Measurement
UL Verification Services, Inc. Chamber D

Company: LG
Project #: 14U17502
Date: 5/6/14
Test Engineer: D. Soper
Configuration: EUT, X Position
Mode: CDMA EVDOR0 BC0

Test Equipment:

Receiving: Sunol T407, and 3m Chamber D N-type Cable
Substitution: Dipole S/N: 00022724, 2ft SMA Cable (SN # 8000701).

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
824.70	13.67	V	0.3	0.0	13.37	38.5	-25.1	
824.70	20.55	H	0.3	0.0	20.25	38.5	-18.2	
Mid Ch								
836.52	14.45	V	0.3	0.0	14.15	38.5	-24.3	
836.52	20.30	H	0.3	0.0	20.00	38.5	-18.4	
High Ch								
848.31	14.07	V	0.3	0.0	13.77	38.5	-24.7	
848.31	21.69	H	0.3	0.0	21.39	38.5	-17.1	

Rev. 3.17.11

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

Band

BC0

1xRTT

High Frequency Substitution Measurement
UL Verification Services, Inc. Chamber D

Company: LG
Project #: 14U17502
Date: 5/6/14
Test Engineer: D. Soper
Configuration: EUT, X Position
Mode: CDMA RTT BC0

Test Equipment:

Receiving: Sunol T407, and 3m Chamber D N-type Cable
Substitution: Dipole S/N: 00022724, 2ft SMA Cable (SN # 8000701).

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
824.70	14.92	V	0.3	0.0	14.62	38.5	-23.8	
824.70	21.42	H	0.3	0.0	21.12	38.5	-17.3	
Mid Ch								
836.52	14.75	V	0.3	0.0	14.45	38.5	-24.0	
836.52	21.69	H	0.3	0.0	21.39	38.5	-17.1	
High Ch								
848.31	14.29	V	0.3	0.0	13.99	38.5	-24.5	
848.31	22.13	H	0.3	0.0	21.83	38.5	-16.6	

Rev. 3.17.11

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

Band GSM19 00 EGPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C Company: LG Project #: 14U17502 Date: 04/23/14 Test Engineer: Oren/Kiya Configuration: EUT only, X position Mode: EGPRS 1900MHz Test Equipment: Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1850.20	11.05	V	0.85	7.9	18.05	33.0	-15.0	
	1850.20	17.60	H	0.85	7.9	24.60	33.0	-8.4	
	Mid Ch								
	1880.00	12.87	V	0.85	7.9	19.87	33.0	-13.1	
	1880.00	20.09	H	0.85	7.9	27.09	33.0	-5.9	
	High Ch								
	1909.80	14.53	V	0.85	7.9	21.53	33.0	-11.5	
	1909.80	19.44	H	0.85	7.9	26.44	33.0	-6.6	
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band GSM19 00 GPRS	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A Company: LG Project #: 14U17502 Date: 05/12/14 Test Engineer: D. Soper Configuration: EUT / Wireless Charger Mode: GPRS 1900MHz Test Equipment: Receiving: Horn T345, and Chamber A SMA Cables Substitution: Horn T59 Substitution, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Margin	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1850.20	9.98	V	0.85	7.9	16.98	33.0	-16.0	
	1850.20	20.58	H	0.85	7.9	27.58	33.0	-5.4	
	Mid Ch								
	1880.00	16.62	V	0.85	7.9	23.62	33.0	-9.4	
	1880.00	21.96	H	0.85	7.9	28.96	33.0	-4.0	
	High Ch								
	1909.80	14.63	V	0.85	7.9	21.63	33.0	-11.4	
	1909.80	21.79	H	0.85	7.9	28.79	33.0	-4.2	
Rev. 3.17.11 Note: For Band 4 EIRP limit is 30dBm									

Band

B5
HSDPA

High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B

Company: LG
Project #: 14U17502
Date: 05/12/14
Test Engineer: Charles Vergonio
Configuration: EUT/Wireless Charger, Y Position
Mode: WCDMA_HSDPA_850

Test Equipment:

Receiving: Sunol T477, and 3m Chamber N-type Cable (Setup this one for testing EUT)
Substitution: Dipole S/N: 00022117, 4ft SMA Cable (SN # 245200 001) Warehouse.

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
826.40	12.65	V	0.9	0.0	11.75	38.5	-26.7	
826.40	19.49	H	0.9	0.0	18.59	38.5	-19.9	
Mid Ch								
836.60	13.06	V	0.9	0.0	12.16	38.5	-26.3	
836.60	19.69	H	0.9	0.0	18.79	38.5	-19.7	
High Ch								
846.60	13.06	V	0.9	0.0	12.16	38.5	-26.3	
846.60	19.58	H	0.9	0.0	18.68	38.5	-19.8	

Rev. 3.17.11

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

UL VERIFICATION SERVICES INC.		FORM NO: CCSUP47011
47173 BENICIA STREET, FREMONT, CA 94538, USA	TEL: (510) 771-1000	FAX: (510) 661-0888

Band B13 LTE QPSK	High Frequency Substitution Measurement Compliance Certification Services Chamber D								
	Company: LG Electronics Project #: 14U17502 Date: 05/09/14 Test Engineer: D. Soper Configuration: EUT / Wireless Charger / X position Mode: LTE_B13_10MHz_QPSK								
	Test Equipment: Receiving: Sunol T407, and Chamber D Cable Substitution: Dipole S/N: 00022117, 8ft SMA Cable (SN # 208955002) Warehouse.								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	Mid Ch								
	782.000	12.72	V	0.9	0.0	11.82	34.8	-23.0	
	782.000	19.43	H	0.9	0.0	18.53	34.8	-16.3	
	Mid Ch								
NEW									
Rev. 3.17.11									

Band BC0 RTT	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber A Company: LG Project #: 14U17502 Date: 5/6/14 Test Engineer: D. Soper Configuration: EUT / Wireless Charger Mode: CDMA RTT BC0 Test Equipment: Receiving: Sunol T243, and 3m Chamber A N-type Cable Substitution: Dipole S/N: 00022724, 2ft SMA Cable (SN # 8000701).								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	ERP	Limit	Margin	Note:
	MHz	(dBm)	(H/V)	(dB)	(dBd)	(dBm)	(dBm)	(dB)	
	Low Ch								
	824.70	14.19	V	0.3	0.0	13.89	38.5	-24.6	
	824.70	21.11	H	0.3	0.0	20.81	38.5	-17.6	
	Mid Ch								
	836.52	13.40	V	0.3	0.0	13.10	38.5	-25.3	
	836.52	19.60	H	0.3	0.0	19.30	38.5	-19.1	
	High Ch								
	848.31	14.67	V	0.3	0.0	14.37	38.5	-24.1	
	848.31	22.01	H	0.3	0.0	21.71	38.5	-16.7	
Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm									

Band BC1 RTT	High Frequency Substitution Measurement UL Verification Services, Inc. Chamber B								
	Company: LG Project #: 14U17502 Date: 05/12/14 Test Engineer: D. Soper Configuration: EUT / Wireless Charger Mode: CDMA RTT BC1								
	Test Equipment: Receiving: Horn T345, and Chamber B SMA Cables Substitution: Horn T217 Substitution, 4ft SMA Cable Warehouse								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
	Low Ch								
	1851.25	12.39	V	0.5	6.6	18.49	33.0	-14.5	
	1851.25	14.63	H	0.5	6.6	20.73	33.0	-12.3	
	Mid Ch								
	1880.00	13.85	V	0.5	6.5	19.85	33.0	-13.2	
	1880.00	14.70	H	0.5	6.5	20.70	33.0	-12.3	
High Ch									
1908.75	12.87	V	0.5	6.2	18.57	33.0	-14.4		
1908.75	15.23	H	0.5	6.2	20.93	33.0	-12.1		
Rev. 3.17.11									

11.3. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238

LIMIT

§22.917 (e) and §24.238 (a): Out of band emissions. 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

TEST PROCEDURE

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

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

MODES TESTED

GSM 850/1900; WCDMA B2/B5; CDMA2000 BC0/BC1; LTE B4/B7/B13

RESULTS

11.3.1. SPURIOUS RADIATION DATA

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Band LTE13 10MHz 16QAM	Company:		LG							
	Project #:		14U17502							
	Date:		05/08/14							
	Test Engineer:		R. Alegre							
	Configuration:		EUT with AC adapter							
	Mode:		TX, LTE band 13, 10MHz BW, 16QAM							
	Chamber		Pre-amplifier		Filter		Limit			
	5m Chamber A		T145 8449B		Filter 1		Part 24			
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Mid Ch, (782 MHz)									
1.564	-25.2	V	3.0	30.7	1.0	-54.9	-13.0	-41.9		
2.346	-26.4	V	3.0	28.9	1.0	-54.3	-13.0	-41.3		
3.128	-29.1	V	3.0	26.8	1.0	-54.9	-13.0	-41.9		
1.564	-29.5	H	3.0	30.7	1.0	-59.2	-13.0	-46.2		
2.346	-28.0	H	3.0	28.9	1.0	-55.8	-13.0	-42.8		
3.128	-27.8	H	3.0	26.8	1.0	-53.6	-13.0	-40.6		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

	Compliance Certification Services Above 1GHz High Frequency Substitution Measurement																																																																																																																						
	Company: LG Project #: 14U17502 Date: 05/08/14 Test Engineer: R. Alegre Configuration: EUT with AC adapter Mode: TX, LTE band 13, 10MHz BW, QPSK																																																																																																																						
Band LTE13 10MHz QPSK	<table style="width: 100%; text-align: center;"> <tr> <td style="width: 25%; background-color: #e0f7fa;">Chamber</td> <td style="width: 25%; background-color: #e0f7fa;">Pre-amplifier</td> <td style="width: 25%; background-color: #e0f7fa;">Filter</td> <td style="width: 25%; background-color: #e0f7fa;">Limit</td> </tr> <tr> <td>5m Chamber A</td> <td>T145 8449B</td> <td>Filter 1</td> <td>Part 24</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td colspan="10">Mid Ch, (782 MHz)</td> </tr> <tr style="background-color: #e0f7fa;"> <td>1.564</td> <td>-24.9</td> <td>V</td> <td>3.0</td> <td>30.7</td> <td>1.0</td> <td>-54.6</td> <td>-13.0</td> <td>-41.6</td> <td></td> </tr> <tr style="background-color: #e0f7fa;"> <td>2.346</td> <td>-26.0</td> <td>V</td> <td>3.0</td> <td>28.9</td> <td>1.0</td> <td>-53.8</td> <td>-13.0</td> <td>-40.8</td> <td></td> </tr> <tr style="background-color: #e0f7fa;"> <td>3.128</td> <td>-28.5</td> <td>V</td> <td>3.0</td> <td>26.8</td> <td>1.0</td> <td>-54.4</td> <td>-13.0</td> <td>-41.4</td> <td></td> </tr> <tr style="background-color: #e0f7fa;"> <td>1.564</td> <td>-29.1</td> <td>H</td> <td>3.0</td> <td>30.7</td> <td>1.0</td> <td>-58.8</td> <td>-13.0</td> <td>-45.8</td> <td></td> </tr> <tr style="background-color: #e0f7fa;"> <td>2.346</td> <td>-27.9</td> <td>H</td> <td>3.0</td> <td>28.9</td> <td>1.0</td> <td>-55.8</td> <td>-13.0</td> <td>-42.8</td> <td></td> </tr> <tr style="background-color: #e0f7fa;"> <td>3.128</td> <td>-27.7</td> <td>H</td> <td>3.0</td> <td>26.8</td> <td>1.0</td> <td>-53.6</td> <td>-13.0</td> <td>-40.6</td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> Rev. 03.03.09	Chamber	Pre-amplifier	Filter	Limit	5m Chamber A	T145 8449B	Filter 1	Part 24	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Mid Ch, (782 MHz)										1.564	-24.9	V	3.0	30.7	1.0	-54.6	-13.0	-41.6		2.346	-26.0	V	3.0	28.9	1.0	-53.8	-13.0	-40.8		3.128	-28.5	V	3.0	26.8	1.0	-54.4	-13.0	-41.4		1.564	-29.1	H	3.0	30.7	1.0	-58.8	-13.0	-45.8		2.346	-27.9	H	3.0	28.9	1.0	-55.8	-13.0	-42.8		3.128	-27.7	H	3.0	26.8	1.0	-53.6	-13.0	-40.6																															
Chamber	Pre-amplifier	Filter	Limit																																																																																																																				
5m Chamber A	T145 8449B	Filter 1	Part 24																																																																																																																				
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																														
Mid Ch, (782 MHz)																																																																																																																							
1.564	-24.9	V	3.0	30.7	1.0	-54.6	-13.0	-41.6																																																																																																															
2.346	-26.0	V	3.0	28.9	1.0	-53.8	-13.0	-40.8																																																																																																															
3.128	-28.5	V	3.0	26.8	1.0	-54.4	-13.0	-41.4																																																																																																															
1.564	-29.1	H	3.0	30.7	1.0	-58.8	-13.0	-45.8																																																																																																															
2.346	-27.9	H	3.0	28.9	1.0	-55.8	-13.0	-42.8																																																																																																															
3.128	-27.7	H	3.0	26.8	1.0	-53.6	-13.0	-40.6																																																																																																															

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:	LG									
Project #:	14U17502									
Date:	05/06/14									
Test Engineer:	R. Alegre									
Configuration:	EUT with AC Charger and headphones									
Mode:	TX, LTE band 7, 20MHz, 16QAM									
Chamber 5m Chamber A Pre-amplifier T145 8449B Filter Filter 1 Limit Part 27										
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE7 20MHz 16QAM	Low Ch, (2510 MHz)									
	5.020	-28.8	V	3.0	28.9	1.0	-56.7	-25.0	-31.7	
	7.530	-26.5	V	3.0	26.3	1.0	-51.8	-25.0	-26.8	
	10.040	-26.1	V	3.0	23.1	1.0	-48.2	-25.0	-23.2	
	5.020	-28.1	H	3.0	28.9	1.0	-56.0	-25.0	-31.0	
	7.530	-26.6	H	3.0	26.3	1.0	-52.0	-25.0	-27.0	
	10.040	-24.8	H	3.0	23.1	1.0	-46.9	-25.0	-21.9	
	Mid Ch, (2535MHz)									
	5.070	-30.0	V	3.0	28.8	1.0	-57.8	-25.0	-32.8	
	7.650	-28.3	V	3.0	26.2	1.0	-53.4	-25.0	-28.4	
	10.140	-24.6	V	3.0	23.1	1.0	-46.6	-25.0	-21.6	
	5.070	-28.4	H	3.0	28.8	1.0	-56.3	-25.0	-31.3	
	7.650	-25.2	H	3.0	26.2	1.0	-50.4	-25.0	-25.4	
	10.140	-25.5	H	3.0	23.1	1.0	-47.5	-25.0	-22.5	
	High Ch, (2560 MHz)									
	5.120	-30.2	V	3.0	28.8	1.0	-58.0	-25.0	-33.0	
	7.680	-26.5	V	3.0	26.1	1.0	-51.6	-25.0	-26.6	
	10.240	-26.2	V	3.0	23.0	1.0	-48.2	-25.0	-23.2	
	5.120	-28.4	H	3.0	28.8	1.0	-56.2	-25.0	-31.2	
	7.680	-25.9	H	3.0	26.1	1.0	-51.0	-25.0	-26.0	
10.240	-22.7	H	3.0	23.0	1.0	-44.8	-25.0	-19.8		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:	LG									
Project #:	14U17502									
Date:	05/06/14									
Test Engineer:	R. Alegre									
Configuration:	EUT with AC Charger and headphones									
Mode:	TX, LTE band 7, 20MHz, QPSK									
Chamber 5m Chamber A Pre-amplifier T145 8449B Filter Filter 1 Limit Part 27										
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE7 20MHz QPSK	Low Ch, (2510 MHz)									
	5.020	-28.6	V	3.0	28.9	1.0	-56.5	-25.0	-31.5	
	7.530	-26.4	V	3.0	26.3	1.0	-51.7	-25.0	-26.7	
	10.040	-26.1	V	3.0	23.1	1.0	-48.2	-25.0	-23.2	
	5.020	-27.3	H	3.0	28.9	1.0	-55.1	-25.0	-30.1	
	7.530	-26.7	H	3.0	26.3	1.0	-52.0	-25.0	-27.0	
	10.040	-25.7	H	3.0	23.1	1.0	-47.8	-25.0	-22.8	
	Mid Ch, (2535MHz)									
	5.070	-29.9	V	3.0	28.8	1.0	-57.7	-25.0	-32.7	
	7.650	-26.9	V	3.0	26.2	1.0	-52.1	-25.0	-27.1	
	10.140	-24.4	V	3.0	23.1	1.0	-46.5	-25.0	-21.5	
	5.070	-28.8	H	3.0	28.8	1.0	-56.6	-25.0	-31.6	
	7.650	-25.2	H	3.0	26.2	1.0	-50.4	-25.0	-25.4	
	10.140	-25.4	H	3.0	23.1	1.0	-47.5	-25.0	-22.5	
	High Ch, (2560 MHz)									
	5.120	-29.9	V	3.0	28.8	1.0	-57.7	-25.0	-32.7	
	7.680	-26.5	V	3.0	26.1	1.0	-51.7	-25.0	-26.7	
	10.240	-26.2	V	3.0	23.0	1.0	-48.2	-25.0	-23.2	
5.120	-28.7	H	3.0	28.8	1.0	-56.4	-25.0	-31.4		
7.680	-25.7	H	3.0	26.1	1.0	-50.8	-25.0	-25.8		
10.240	-25.2	H	3.0	23.0	1.0	-47.2	-25.0	-22.2		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																					
Company: Project #: Date: Test Engineer: Configuration: Mode:	LG 14U17502 05/05/14 D. Soper, O. Stoelting Z- position EUT with AC charger and HS TX, LTE band 7, 15MHz, 16QAM																																																																																																																																																																																																																																				
Chamber 5m Chamber A	Pre-amplifier T145 8449B	Filter Filter 1	Limit Part 27																																																																																																																																																																																																																																		
Band LTE7 15MHz 16QAM	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>ERP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr><td colspan="10">Low Ch, (2507.5 MHz)</td></tr> <tr><td>5.014</td><td>-28.9</td><td>V</td><td>3.0</td><td>28.9</td><td>1.0</td><td>-56.8</td><td>-25.0</td><td>-31.8</td><td></td></tr> <tr><td>7.521</td><td>-27.4</td><td>V</td><td>3.0</td><td>26.3</td><td>1.0</td><td>-52.7</td><td>-25.0</td><td>-27.7</td><td></td></tr> <tr><td>10.028</td><td>-25.4</td><td>V</td><td>3.0</td><td>23.1</td><td>1.0</td><td>-47.5</td><td>-25.0</td><td>-22.5</td><td></td></tr> <tr><td>5.014</td><td>-27.6</td><td>H</td><td>3.0</td><td>28.9</td><td>1.0</td><td>-55.5</td><td>-25.0</td><td>-30.5</td><td></td></tr> <tr><td>7.521</td><td>-26.3</td><td>H</td><td>3.0</td><td>26.3</td><td>1.0</td><td>-51.6</td><td>-25.0</td><td>-26.6</td><td></td></tr> <tr><td>10.028</td><td>-23.9</td><td>H</td><td>3.0</td><td>23.1</td><td>1.0</td><td>-46.0</td><td>-25.0</td><td>-21.0</td><td></td></tr> <tr><td colspan="10">Mid Ch, (2535 MHz)</td></tr> <tr><td>5.070</td><td>-30.2</td><td>V</td><td>3.0</td><td>28.8</td><td>1.0</td><td>-58.0</td><td>-25.0</td><td>-33.0</td><td></td></tr> <tr><td>7.650</td><td>-27.0</td><td>V</td><td>3.0</td><td>26.2</td><td>1.0</td><td>-52.2</td><td>-25.0</td><td>-27.2</td><td></td></tr> <tr><td>10.140</td><td>-25.7</td><td>V</td><td>3.0</td><td>23.1</td><td>1.0</td><td>-47.7</td><td>-25.0</td><td>-22.7</td><td></td></tr> <tr><td>5.070</td><td>-28.0</td><td>H</td><td>3.0</td><td>28.8</td><td>1.0</td><td>-55.8</td><td>-25.0</td><td>-30.8</td><td></td></tr> <tr><td>7.650</td><td>-25.1</td><td>H</td><td>3.0</td><td>26.2</td><td>1.0</td><td>-50.2</td><td>-25.0</td><td>-25.2</td><td></td></tr> <tr><td>10.140</td><td>-24.1</td><td>H</td><td>3.0</td><td>23.1</td><td>1.0</td><td>-46.1</td><td>-25.0</td><td>-21.1</td><td></td></tr> <tr><td colspan="10">High Ch, (2562.5 MHz)</td></tr> <tr><td>5.124</td><td>-30.7</td><td>V</td><td>3.0</td><td>28.8</td><td>1.0</td><td>-58.5</td><td>-25.0</td><td>-33.5</td><td></td></tr> <tr><td>7.686</td><td>-26.6</td><td>V</td><td>3.0</td><td>26.1</td><td>1.0</td><td>-51.7</td><td>-25.0</td><td>-26.7</td><td></td></tr> <tr><td>10.248</td><td>-25.9</td><td>V</td><td>3.0</td><td>23.0</td><td>1.0</td><td>-48.0</td><td>-25.0</td><td>-23.0</td><td></td></tr> <tr><td>5.124</td><td>-28.1</td><td>H</td><td>3.0</td><td>28.8</td><td>1.0</td><td>-55.9</td><td>-25.0</td><td>-30.9</td><td></td></tr> <tr><td>7.686</td><td>-25.6</td><td>H</td><td>3.0</td><td>26.1</td><td>1.0</td><td>-50.7</td><td>-25.0</td><td>-25.7</td><td></td></tr> <tr><td>10.248</td><td>-25.1</td><td>H</td><td>3.0</td><td>23.0</td><td>1.0</td><td>-47.1</td><td>-25.0</td><td>-22.1</td><td></td></tr> </tbody> </table>									f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, (2507.5 MHz)										5.014	-28.9	V	3.0	28.9	1.0	-56.8	-25.0	-31.8		7.521	-27.4	V	3.0	26.3	1.0	-52.7	-25.0	-27.7		10.028	-25.4	V	3.0	23.1	1.0	-47.5	-25.0	-22.5		5.014	-27.6	H	3.0	28.9	1.0	-55.5	-25.0	-30.5		7.521	-26.3	H	3.0	26.3	1.0	-51.6	-25.0	-26.6		10.028	-23.9	H	3.0	23.1	1.0	-46.0	-25.0	-21.0		Mid Ch, (2535 MHz)										5.070	-30.2	V	3.0	28.8	1.0	-58.0	-25.0	-33.0		7.650	-27.0	V	3.0	26.2	1.0	-52.2	-25.0	-27.2		10.140	-25.7	V	3.0	23.1	1.0	-47.7	-25.0	-22.7		5.070	-28.0	H	3.0	28.8	1.0	-55.8	-25.0	-30.8		7.650	-25.1	H	3.0	26.2	1.0	-50.2	-25.0	-25.2		10.140	-24.1	H	3.0	23.1	1.0	-46.1	-25.0	-21.1		High Ch, (2562.5 MHz)										5.124	-30.7	V	3.0	28.8	1.0	-58.5	-25.0	-33.5		7.686	-26.6	V	3.0	26.1	1.0	-51.7	-25.0	-26.7		10.248	-25.9	V	3.0	23.0	1.0	-48.0	-25.0	-23.0		5.124	-28.1	H	3.0	28.8	1.0	-55.9	-25.0	-30.9		7.686	-25.6	H	3.0	26.1	1.0	-50.7	-25.0	-25.7		10.248	-25.1	H	3.0	23.0	1.0	-47.1	-25.0	-22.1	
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																																												
Low Ch, (2507.5 MHz)																																																																																																																																																																																																																																					
5.014	-28.9	V	3.0	28.9	1.0	-56.8	-25.0	-31.8																																																																																																																																																																																																																													
7.521	-27.4	V	3.0	26.3	1.0	-52.7	-25.0	-27.7																																																																																																																																																																																																																													
10.028	-25.4	V	3.0	23.1	1.0	-47.5	-25.0	-22.5																																																																																																																																																																																																																													
5.014	-27.6	H	3.0	28.9	1.0	-55.5	-25.0	-30.5																																																																																																																																																																																																																													
7.521	-26.3	H	3.0	26.3	1.0	-51.6	-25.0	-26.6																																																																																																																																																																																																																													
10.028	-23.9	H	3.0	23.1	1.0	-46.0	-25.0	-21.0																																																																																																																																																																																																																													
Mid Ch, (2535 MHz)																																																																																																																																																																																																																																					
5.070	-30.2	V	3.0	28.8	1.0	-58.0	-25.0	-33.0																																																																																																																																																																																																																													
7.650	-27.0	V	3.0	26.2	1.0	-52.2	-25.0	-27.2																																																																																																																																																																																																																													
10.140	-25.7	V	3.0	23.1	1.0	-47.7	-25.0	-22.7																																																																																																																																																																																																																													
5.070	-28.0	H	3.0	28.8	1.0	-55.8	-25.0	-30.8																																																																																																																																																																																																																													
7.650	-25.1	H	3.0	26.2	1.0	-50.2	-25.0	-25.2																																																																																																																																																																																																																													
10.140	-24.1	H	3.0	23.1	1.0	-46.1	-25.0	-21.1																																																																																																																																																																																																																													
High Ch, (2562.5 MHz)																																																																																																																																																																																																																																					
5.124	-30.7	V	3.0	28.8	1.0	-58.5	-25.0	-33.5																																																																																																																																																																																																																													
7.686	-26.6	V	3.0	26.1	1.0	-51.7	-25.0	-26.7																																																																																																																																																																																																																													
10.248	-25.9	V	3.0	23.0	1.0	-48.0	-25.0	-23.0																																																																																																																																																																																																																													
5.124	-28.1	H	3.0	28.8	1.0	-55.9	-25.0	-30.9																																																																																																																																																																																																																													
7.686	-25.6	H	3.0	26.1	1.0	-50.7	-25.0	-25.7																																																																																																																																																																																																																													
10.248	-25.1	H	3.0	23.0	1.0	-47.1	-25.0	-22.1																																																																																																																																																																																																																													
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.																																																																																																																																																																																																																																					

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:	LG									
Project #:	14U17502									
Date:	05/05/14									
Test Engineer:	D. Soper, O. Stoelting									
Configuration:	Z- position EUT with AC charger and HS									
Mode:	TX, LTE band 7, 15MHz, QPSK									
Chamber Pre-amplifier Filter Limit 5m Chamber A T145 8449B Filter 1 Part 27										
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE7 15MHz QPSK	Low Ch, (2507 MHz)									
	5.014	-28.0	V	3.0	28.9	1.0	-55.9	-25.0	-30.9	
	7.521	-27.9	V	3.0	26.3	1.0	-53.2	-25.0	-28.2	
	10.028	-26.1	V	3.0	23.1	1.0	-48.2	-25.0	-23.2	
	5.014	-27.1	H	3.0	28.9	1.0	-55.0	-25.0	-30.0	
	7.521	-26.4	H	3.0	26.3	1.0	-51.7	-25.0	-26.7	
	10.028	-25.0	H	3.0	23.1	1.0	-47.1	-25.0	-22.1	
	Mid Ch, (2535 MHz)									
	5.070	-30.6	V	3.0	28.8	1.0	-58.4	-25.0	-33.4	
	7.650	-26.5	V	3.0	26.2	1.0	-51.6	-25.0	-26.6	
	10.140	-25.6	V	3.0	23.1	1.0	-47.7	-25.0	-22.7	
	5.070	-28.0	H	3.0	28.8	1.0	-55.8	-25.0	-30.8	
	7.650	-25.8	H	3.0	26.2	1.0	-51.0	-25.0	-26.0	
	10.140	-24.8	H	3.0	23.1	1.0	-46.9	-25.0	-21.9	
	High Ch, (2562.5 MHz)									
	5.124	-31.1	V	3.0	28.8	1.0	-58.8	-25.0	-33.8	
	7.686	-26.6	V	3.0	26.1	1.0	-51.7	-25.0	-26.7	
	10.248	-25.6	V	3.0	23.0	1.0	-47.6	-25.0	-22.6	
5.124	-28.0	H	3.0	28.8	1.0	-55.8	-25.0	-30.8		
7.686	-25.8	H	3.0	26.1	1.0	-50.9	-25.0	-25.9		
10.248	-25.0	H	3.0	23.0	1.0	-47.0	-25.0	-22.0		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

UL Verification Services Above 1GHz High Frequency Substitution Measurement										
Company: LG Project #: 14U17502 Date: 05/05/14 Test Engineer: D. Soper, O. Stoelting Configuration: Z- position EUT with AC charger and HS Mode: TX, LTE BAND 7, 10MHz BW, 16QAM										
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber A		T34 8449B		Filter 1		FCC Part 27				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE7 10MHz 16QAM	Low Channel (2505MHz)									
	5.010	-8.4	V	3.0	34.8	1.0	-42.2	-25.0	-17.2	
	7.515	-11.8	V	3.0	34.9	1.0	-45.7	-25.0	-20.7	
	10.020	-9.8	V	3.0	35.4	1.0	-44.2	-25.0	-19.2	
	5.010	-12.6	H	3.0	34.8	1.0	-46.4	-25.0	-21.4	
	7.515	-16.0	H	3.0	34.9	1.0	-49.9	-25.0	-24.9	
	10.020	-13.3	H	3.0	35.4	1.0	-47.7	-25.0	-22.7	
	Mid Channel (2535MHz)									
	5.070	-9.8	V	3.0	34.7	1.0	-43.5	-25.0	-18.5	
	7.605	-12.8	V	3.0	34.9	1.0	-46.8	-25.0	-21.8	
	10.122	-10.1	V	3.0	35.3	1.0	-44.4	-25.0	-19.4	
	5.070	-4.3	H	3.0	34.7	1.0	-38.0	-25.0	-13.0	
7.605	-11.0	H	3.0	34.9	1.0	-44.9	-25.0	-19.9		
10.122	-9.3	H	3.0	35.3	1.0	-43.6	-25.0	-18.6		
High Channel (2565MHz)										
5.130	-4.2	V	3.0	34.7	1.0	-37.9	-25.0	-12.9		
7.689	-12.9	V	3.0	35.0	1.0	-46.9	-25.0	-21.9		
10.260	-9.7	V	3.0	35.2	1.0	-43.9	-25.0	-18.9		
5.130	-6.0	H	3.0	34.7	1.0	-39.8	-25.0	-14.8		
7.689	-8.3	H	3.0	35.0	1.0	-42.2	-25.0	-17.2		
10.260	-9.1	H	3.0	35.2	1.0	-43.4	-25.0	-18.4		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

UL Verification Services Above 1GHz High Frequency Substitution Measurement									
Company: LG Project #: 14U17502 Date: 05/05/14 Test Engineer: D. Soper, O. Stoelting Configuration: Z- position EUT with AC charger and HS Mode: TX, LTE BAND 7, 10MHz BW, 16QAM									
Chamber		Pre-amplifier		Filter		Limit			
5m Chamber A		T34 8449B		Filter 1		FCC Part 27			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (2505MHz)									
5.010	-8.8	V	3.0	34.8	1.0	-42.6	-25.0	-17.6	
7.515	-12.1	V	3.0	34.9	1.0	-46.1	-25.0	-21.1	
10.020	-9.2	V	3.0	35.4	1.0	-43.6	-25.0	-18.6	
5.010	-12.8	H	3.0	34.8	1.0	-46.6	-25.0	-21.6	
7.515	-15.9	H	3.0	34.9	1.0	-49.8	-25.0	-24.8	
10.020	-12.9	H	3.0	35.4	1.0	-47.3	-25.0	-22.3	
Mid Channel (2535MHz)									
5.070	-9.7	V	3.0	34.7	1.0	-43.4	-25.0	-18.4	
7.605	-12.4	V	3.0	34.9	1.0	-46.3	-25.0	-21.3	
10.122	-9.4	V	3.0	35.3	1.0	-43.7	-25.0	-18.7	
5.070	-3.4	H	3.0	34.7	1.0	-37.2	-25.0	-12.2	
7.605	-11.7	H	3.0	34.9	1.0	-45.6	-25.0	-20.6	
10.122	-8.9	H	3.0	35.3	1.0	-43.2	-25.0	-18.2	
High Channel (2565MHz)									
5.130	-5.4	V	3.0	34.7	1.0	-39.1	-25.0	-14.1	
7.689	-12.4	V	3.0	35.0	1.0	-46.4	-25.0	-21.4	
10.260	-9.4	V	3.0	35.2	1.0	-43.7	-25.0	-18.7	
5.130	-6.1	H	3.0	34.7	1.0	-39.8	-25.0	-14.8	
7.689	-7.2	H	3.0	35.0	1.0	-41.1	-25.0	-16.1	
10.260	-9.2	H	3.0	35.2	1.0	-43.4	-25.0	-18.4	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

UL Verification Services Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		14U17502								
Date:		05/09/14								
Test Engineer:		Daniel Soper								
Configuration:		EUT / Wireless Charger / Headset								
Mode:		LTE7 / 5MHz BW / QPSK								
Chamber 5m Chamber A Pre-amplifier T145 8449B Filter Filter 1 Limit FCC Part 22										
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band LTE7 5MHz 16QAM	Low Channel (2502.5MHz)									
	5.005	-5.3	V	3.0	35.3	1.0	-39.6	-25.0	-14.6	
	7.508	-20.4	V	3.0	35.7	1.0	-55.1	-25.0	-30.1	
	10.010	-15.1	V	3.0	35.5	1.0	-49.7	-25.0	-24.7	
	5.005	-2.6	H	3.0	35.3	1.0	-36.9	-25.0	-11.9	
	7.508	-20.6	H	3.0	35.7	1.0	-55.3	-25.0	-30.3	
	10.010	-16.1	H	3.0	35.5	1.0	-50.7	-25.0	-25.7	
	Mid Channel (2535MHz)									
	5.007	-5.8	V	3.0	35.3	1.0	-40.1	-25.0	-15.1	
	7.605	-20.2	V	3.0	35.7	1.0	-54.9	-25.0	-29.9	
	10.140	-17.3	V	3.0	35.4	1.0	-51.8	-25.0	-26.8	
	5.007	-1.2	H	3.0	35.3	1.0	-35.5	-25.0	-10.5	
	7.605	-17.7	H	3.0	35.7	1.0	-52.4	-25.0	-27.4	
	10.140	-16.9	H	3.0	35.4	1.0	-51.3	-25.0	-26.3	
	High Channel (2567.5MHz)									
	5.135	-2.9	V	3.0	35.3	1.0	-37.2	-25.0	-12.2	
	7.703	-13.9	V	3.0	35.7	1.0	-48.6	-25.0	-23.6	
	10.270	-12.9	V	3.0	35.3	1.0	-47.2	-25.0	-22.2	
5.135	4.0	H	3.0	35.3	1.0	-30.4	-25.0	-5.4		
7.703	-16.4	H	3.0	35.7	1.0	-51.1	-25.0	-26.1		
10.270	-17.2	H	3.0	35.3	1.0	-51.5	-25.0	-26.5		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

UL Verification Services Above 1GHz High Frequency Substitution Measurement										
Company:		LG Electronics								
Project #:		14U17502								
Date:		05/09/14								
Test Engineer:		Daniel Soper								
Configuration:		EUT / Wireless Charger / Headset								
Mode:		LTE7 / 5MHz BW / QPSK								
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber A		T145 8449B		Filter 1		FCC Part 22				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE7 5MHz QPSK	Low Channel (2502.5MHz)									
	5.005	-5.4	V	3.0	35.3	1.0	-39.7	-25.0	-14.7	
	7.508	-20.9	V	3.0	35.7	1.0	-55.6	-25.0	-30.6	
	10.010	-14.0	V	3.0	35.5	1.0	-48.5	-25.0	-23.5	
	5.005	-3.9	H	3.0	35.3	1.0	-38.2	-25.0	-13.2	
	7.508	-20.4	H	3.0	35.7	1.0	-55.1	-25.0	-30.1	
	10.010	-15.5	H	3.0	35.5	1.0	-50.0	-25.0	-25.0	
	Mid Channel (2535MHz)									
	5.007	-6.1	V	3.0	35.3	1.0	-40.4	-25.0	-15.4	
	7.605	-19.7	V	3.0	35.7	1.0	-54.4	-25.0	-29.4	
	10.140	-17.3	V	3.0	35.4	1.0	-51.8	-25.0	-26.8	
	5.007	-1.7	H	3.0	35.3	1.0	-36.0	-25.0	-11.0	
7.605	-19.1	H	3.0	35.7	1.0	-53.8	-25.0	-28.8		
10.140	-16.7	H	3.0	35.4	1.0	-51.2	-25.0	-26.2		
High Channel (2567.5MHz)										
5.135	-2.5	V	3.0	35.3	1.0	-36.8	-25.0	-11.8		
7.703	-13.6	V	3.0	35.7	1.0	-48.2	-25.0	-23.2		
10.270	-12.8	V	3.0	35.3	1.0	-47.1	-25.0	-22.1		
5.135	3.8	H	3.0	35.3	1.0	-30.5	-25.0	-5.5		
7.703	-15.0	H	3.0	35.7	1.0	-49.7	-25.0	-24.7		
10.270	-17.2	H	3.0	35.3	1.0	-51.6	-25.0	-26.6		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services

Above 1GHz High Frequency Substitution Measurement

Company: LG

Project #: 14U17502

Date: 05/06/14

Test Engineer: R. Alegre

Configuration: EUT with AC adapter

Mode: TX, LTE band 4, 20MHz BW, 16QAM

Chamber

5m Chamber A

Pre-amplifier

T145 8449B

Filter

Filter 1

Limit

Part 24

Band

LTE4

20MHz

16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch. (1720 MHz)									
3.440	-28.4	V	3.0	30.4	1.0	-57.8	-13.0	-44.8	
5.160	-29.8	V	3.0	28.7	1.0	-57.6	-13.0	-44.6	
6.880	-28.4	V	3.0	27.1	1.0	-54.5	-13.0	-41.5	
3.440	-28.5	H	3.0	30.4	1.0	-57.9	-13.0	-44.9	
5.160	-28.6	H	3.0	28.7	1.0	-56.4	-13.0	-43.4	
6.880	-27.6	H	3.0	27.1	1.0	-53.8	-13.0	-40.8	
Mid Ch. (1732.5 MHz)									
3.465	-28.2	V	3.0	30.4	1.0	-57.6	-13.0	-44.6	
5.198	-30.1	V	3.0	28.7	1.0	-57.8	-13.0	-44.8	
6.930	-28.6	V	3.0	27.1	1.0	-54.6	-13.0	-41.6	
3.465	-27.7	H	3.0	30.4	1.0	-57.1	-13.0	-44.1	
5.198	-29.3	H	3.0	28.7	1.0	-57.0	-13.0	-44.0	
6.930	-28.2	H	3.0	27.1	1.0	-54.3	-13.0	-41.3	
High Ch. (1745 MHz)									
3.490	-28.7	V	3.0	30.4	1.0	-58.1	-13.0	-45.1	
5.235	-29.9	V	3.0	28.7	1.0	-57.5	-13.0	-44.5	
6.980	-27.2	V	3.0	27.0	1.0	-53.2	-13.0	-40.2	
3.490	-28.4	H	3.0	30.4	1.0	-57.8	-13.0	-44.8	
5.235	-27.9	H	3.0	28.7	1.0	-55.6	-13.0	-42.6	
6.980	-27.4	H	3.0	27.0	1.0	-53.4	-13.0	-40.4	

Rev. 03.03.09

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		LG 14U17502 05/06/14 R. Alegre EUT with AC adapter TX, LTE band 4, 20MHz BW, QPSK								
		Chamber	Pre-amplifier	Filter	Limit					
		5m Chamber A	T145 8449B	Filter 1	Part 24					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 20MHz QPSK	Low Ch, (1720 MHz)									
	3.440	-28.0	V	3.0	30.4	1.0	-57.4	-13.0	-44.4	
	5.160	-29.5	V	3.0	28.7	1.0	-57.3	-13.0	-44.3	
	6.880	-27.9	V	3.0	27.1	1.0	-54.0	-13.0	-41.0	
	3.440	-28.8	H	3.0	30.4	1.0	-58.2	-13.0	-45.2	
	5.160	-28.4	H	3.0	28.7	1.0	-56.2	-13.0	-43.2	
	6.880	-27.2	H	3.0	27.1	1.0	-53.3	-13.0	-40.3	
	Mid Ch, (1732.5 MHz)									
	3.465	-28.6	V	3.0	30.4	1.0	-58.0	-13.0	-45.0	
	5.198	-29.9	V	3.0	28.7	1.0	-57.6	-13.0	-44.6	
	6.930	-28.2	V	3.0	27.1	1.0	-54.2	-13.0	-41.2	
	3.465	-28.5	H	3.0	30.4	1.0	-57.9	-13.0	-44.9	
	5.198	-28.2	H	3.0	28.7	1.0	-55.9	-13.0	-42.9	
	6.930	-27.2	H	3.0	27.1	1.0	-53.2	-13.0	-40.2	
	High Ch, (1745 MHz)									
	3.490	-28.3	V	3.0	30.4	1.0	-57.7	-13.0	-44.7	
	5.235	-29.5	V	3.0	28.7	1.0	-57.2	-13.0	-44.2	
	6.980	-27.2	V	3.0	27.0	1.0	-53.2	-13.0	-40.2	
3.490	-28.4	H	3.0	30.4	1.0	-57.8	-13.0	-44.8		
5.235	-27.9	H	3.0	28.7	1.0	-55.5	-13.0	-42.5		
6.980	-27.2	H	3.0	27.0	1.0	-53.3	-13.0	-40.3		
Rev. 03.03.09										

Page 159 of 199

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		LG 14U17502 05/06/14 R. Alegre EUT with AC adapter TX, LTE band 4, 15MHz BW, QPSK								
		Chamber	Pre-amplifier	Filter	Limit					
		5m Chamber A	T145 8449B	Filter 1	Part 24					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 15MHz QPSK	Low Ch, (1717.5 MHz)									
	3.435	-28.1	V	3.0	30.4	1.0	-57.5	-13.0	-44.5	
	5.153	-29.4	V	3.0	28.7	1.0	-57.1	-13.0	-44.1	
	6.870	-28.0	V	3.0	27.1	1.0	-54.1	-13.0	-41.1	
	3.435	-28.2	H	3.0	30.4	1.0	-57.6	-13.0	-44.6	
	5.153	-28.7	H	3.0	28.7	1.0	-56.5	-13.0	-43.5	
	6.870	-27.5	H	3.0	27.1	1.0	-53.6	-13.0	-40.6	
	Mid Ch, (1732.5 MHz)									
	3.465	-28.1	V	3.0	30.4	1.0	-57.5	-13.0	-44.5	
	5.198	-30.2	V	3.0	28.7	1.0	-57.9	-13.0	-44.9	
	6.930	-27.7	V	3.0	27.1	1.0	-53.7	-13.0	-40.7	
	3.465	-28.6	H	3.0	30.4	1.0	-58.0	-13.0	-45.0	
	5.198	-28.1	H	3.0	28.7	1.0	-55.8	-13.0	-42.8	
	6.930	-26.9	H	3.0	27.1	1.0	-52.9	-13.0	-39.9	
	High Ch, (1747.5 MHz)									
	3.495	-27.6	V	3.0	30.4	1.0	-56.9	-13.0	-43.9	
	5.243	-29.9	V	3.0	28.7	1.0	-57.6	-13.0	-44.6	
	6.990	-27.8	V	3.0	27.0	1.0	-53.8	-13.0	-40.8	
3.495	-28.5	H	3.0	30.4	1.0	-57.9	-13.0	-44.9		
5.243	-28.9	H	3.0	28.7	1.0	-56.5	-13.0	-43.5		
6.990	-27.2	H	3.0	27.0	1.0	-53.2	-13.0	-40.2		
Rev. 03.03.09										

Page 161 of 199

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:	LG									
Project #:	14U17502									
Date:	05/06/14									
Test Engineer:	R. Alegre									
Configuration:	EUT, AC charger, and Earphone									
Mode:	TX, LTE band 4, 10MHz BW, QPSK									
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber A		T145 8449B		Filter 1		Part 24				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 10MHz QPSK	Low Ch, (1715 MHz)									
	3.430	-29.5	V	3.0	30.4	1.0	-59.0	-13.0	-46.0	
	5.145	-29.1	V	3.0	28.8	1.0	-56.8	-13.0	-43.8	
	6.860	-29.3	V	3.0	27.1	1.0	-55.4	-13.0	-42.4	
	3.430	-29.7	H	3.0	30.4	1.0	-59.1	-13.0	-46.1	
	5.145	-28.0	H	3.0	28.8	1.0	-55.7	-13.0	-42.7	
	6.860	-28.1	H	3.0	27.1	1.0	-54.2	-13.0	-41.2	
	Mid Ch, (1732.5 MHz)									
	3.465	-27.9	V	3.0	30.4	1.0	-57.3	-13.0	-44.3	
	5.198	-29.2	V	3.0	28.7	1.0	-56.9	-13.0	-43.9	
	6.930	-28.2	V	3.0	27.1	1.0	-54.2	-13.0	-41.2	
	3.465	-28.5	H	3.0	30.4	1.0	-57.9	-13.0	-44.9	
	5.198	-26.5	H	3.0	28.7	1.0	-54.2	-13.0	-41.2	
	6.930	-27.1	H	3.0	27.1	1.0	-53.2	-13.0	-40.2	
	High Ch, (1750 MHz)									
	3.500	-29.6	V	3.0	30.4	1.0	-59.0	-13.0	-46.0	
	5.250	-29.8	V	3.0	28.7	1.0	-57.5	-13.0	-44.5	
	7.000	-27.6	V	3.0	27.0	1.0	-53.6	-13.0	-40.6	
3.500	-30.1	H	3.0	30.4	1.0	-59.5	-13.0	-46.5		
5.250	-28.1	H	3.0	28.7	1.0	-55.7	-13.0	-42.7		
7.000	-27.4	H	3.0	27.0	1.0	-53.4	-13.0	-40.4		
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		LG 14U17502 05/06/14 R. Alegre EUT, AC charger, and Earphone TX, LTE band 4, 5MHz BW, 16 QAM								
		Chamber	Pre-amplifier	Filter	Limit					
		5m Chamber A	T145 8449B	Filter 1	Part 24					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 5MHz 16QAM	Low Ch, (1712.5 MHz)									
	3.425	-27.7	V	3.0	30.4	1.0	-57.1	-13.0	-44.1	
	5.138	-30.2	V	3.0	28.8	1.0	-58.0	-13.0	-45.0	
	6.850	-29.7	V	3.0	27.1	1.0	-55.8	-13.0	-42.8	
	3.425	-27.5	H	3.0	30.4	1.0	-56.9	-13.0	-43.9	
	5.138	-29.1	H	3.0	28.8	1.0	-56.9	-13.0	-43.9	
	6.850	-29.0	H	3.0	27.1	1.0	-55.1	-13.0	-42.1	
	Mid Ch, (1732.5 MHz)									
	3.465	-27.5	V	3.0	30.4	1.0	-56.9	-13.0	-43.9	
	5.198	-30.1	V	3.0	28.7	1.0	-57.8	-13.0	-44.8	
	6.930	-27.6	V	3.0	27.1	1.0	-53.6	-13.0	-40.6	
	3.465	-28.6	H	3.0	30.4	1.0	-58.0	-13.0	-45.0	
	5.198	-28.6	H	3.0	28.7	1.0	-56.3	-13.0	-43.3	
	6.930	-26.7	H	3.0	27.1	1.0	-52.7	-13.0	-39.7	
	High Ch, (1752.5 MHz)									
	3.505	-26.9	V	3.0	30.4	1.0	-56.2	-13.0	-43.2	
	5.258	-30.1	V	3.0	28.6	1.0	-57.7	-13.0	-44.7	
	7.010	-27.5	V	3.0	27.0	1.0	-53.5	-13.0	-40.5	
3.505	-28.4	H	3.0	30.4	1.0	-57.7	-13.0	-44.7		
5.258	-27.8	H	3.0	28.6	1.0	-55.4	-13.0	-42.4		
7.010	-27.5	H	3.0	27.0	1.0	-53.5	-13.0	-40.5		
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:	LG									
Project #:	14U17502									
Date:	05/06/14									
Test Engineer:	R. Alegre									
Configuration:	EUT, AC charger, and Earphone									
Mode:	TX, LTE band 4, 5MHz BW, QPSK									
Chamber		Pre-amplifier		Filter		Limit				
5m Chamber A		T145 8449B		Filter 1		Part 24				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 5MHz QPSK	Low Ch, (1712.5 MHz)									
	3.425	-27.4	V	3.0	30.4	1.0	-56.8	-13.0	-43.8	
	5.138	-30.2	V	3.0	28.8	1.0	-58.0	-13.0	-45.0	
	6.850	-29.5	V	3.0	27.1	1.0	-55.6	-13.0	-42.6	
	3.425	-27.5	H	3.0	30.4	1.0	-57.0	-13.0	-44.0	
	5.138	-28.9	H	3.0	28.8	1.0	-56.6	-13.0	-43.6	
	6.850	-28.0	H	3.0	27.1	1.0	-54.1	-13.0	-41.1	
	Mid Ch, (1732.5 MHz)									
	3.465	-27.9	V	3.0	30.4	1.0	-57.3	-13.0	-44.3	
	5.198	-30.0	V	3.0	28.7	1.0	-57.7	-13.0	-44.7	
	6.930	-27.3	V	3.0	27.1	1.0	-53.4	-13.0	-40.4	
	3.465	-28.3	H	3.0	30.4	1.0	-57.7	-13.0	-44.7	
	5.198	-28.5	H	3.0	28.7	1.0	-56.2	-13.0	-43.2	
	6.930	-26.7	H	3.0	27.1	1.0	-52.7	-13.0	-39.7	
	High Ch, (1752.5 MHz)									
	3.505	-26.8	V	3.0	30.4	1.0	-56.2	-13.0	-43.2	
	5.258	-29.9	V	3.0	28.6	1.0	-57.6	-13.0	-44.6	
	7.010	-28.2	V	3.0	27.0	1.0	-54.2	-13.0	-41.2	
3.505	-28.3	H	3.0	30.4	1.0	-57.7	-13.0	-44.7		
5.258	-27.8	H	3.0	28.6	1.0	-55.5	-13.0	-42.5		
7.010	-27.4	H	3.0	27.0	1.0	-53.4	-13.0	-40.4		
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:	LG									
Project #:	14U17502									
Date:	5/6/14									
Test Engineer:	D. Soper									
Configuration:	EUT with AC adapter & HS									
Mode:	EVDO BC1 HARM									
Chamber Pre-amplifier Filter Limit 5m Chamber A T343 8449B Filter 1 Part 24										
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
BC1 EVDO REL. 0	Low Ch, 1851.25MHz									
	3.703	-12.1	V	3.0	35.4	1.0	-46.5	-13.0	-33.5	
	5.554	-17.3	V	3.0	34.7	1.0	-51.1	-13.0	-38.1	
	7.405	-18.9	V	3.0	34.9	1.0	-52.8	-13.0	-39.8	
	3.703	-12.7	H	3.0	35.4	1.0	-47.1	-13.0	-34.1	
	5.554	-17.1	H	3.0	34.7	1.0	-50.8	-13.0	-37.8	
	7.405	-17.2	H	3.0	34.9	1.0	-51.1	-13.0	-38.1	
	Mid Ch, 1880.0MHz									
	3.760	-15.2	V	3.0	35.3	1.0	-49.6	-13.0	-36.6	
	5.640	-17.6	V	3.0	34.7	1.0	-51.3	-13.0	-38.3	
	7.520	-15.9	V	3.0	34.9	1.0	-49.8	-13.0	-36.8	
	3.760	-13.9	H	3.0	35.3	1.0	-48.2	-13.0	-35.2	
	5.640	-19.8	H	3.0	34.7	1.0	-53.5	-13.0	-40.5	
	7.520	-15.3	H	3.0	34.9	1.0	-49.3	-13.0	-36.3	
	High Ch, 1908.75 MHz									
	3.818	-16.3	V	3.0	35.3	1.0	-50.5	-13.0	-37.5	
	5.726	-15.1	V	3.0	34.7	1.0	-48.8	-13.0	-35.8	
	7.635	-13.0	V	3.0	34.9	1.0	-47.0	-13.0	-34.0	
	3.818	-14.0	H	3.0	35.3	1.0	-48.3	-13.0	-35.3	
	5.726	-18.0	H	3.0	34.7	1.0	-51.7	-13.0	-38.7	
7.635	-17.5	H	3.0	34.9	1.0	-51.5	-13.0	-38.5		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: LG Project #: 14U17502 Date: 05/02/14 Test Engineer: O. Stoelting, D. Soper Configuration: EUT with AC charger & HS Mode: CDMA RTT BC1										
		Chamber	Pre-amplifier	Filter	Limit					
		5m Chamber A	T34 8449B	Filter 1	Part 24					
Band BC1 1xRTT	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.25 MHz										
	3.703	-8.9	V	3.0	35.4	1.0	-43.3	-13.0	-30.3	
	5.554	-19.9	V	3.0	34.7	1.0	-53.6	-13.0	-40.6	
	7.405	-16.5	V	3.0	34.9	1.0	-50.5	-13.0	-37.5	
	3.703	-12.5	H	3.0	35.4	1.0	-46.9	-13.0	-33.9	
	5.554	-21.4	H	3.0	34.7	1.0	-55.2	-13.0	-42.2	
	7.405	-18.5	H	3.0	34.9	1.0	-52.4	-13.0	-39.4	
Mid Ch, 1880 MHz										
	3.760	-12.9	V	3.0	35.3	1.0	-47.2	-13.0	-34.2	
	5.640	-22.2	V	3.0	34.7	1.0	-55.9	-13.0	-42.9	
	7.520	-15.0	V	3.0	34.9	1.0	-48.9	-13.0	-35.9	
	3.760	-13.5	H	3.0	35.3	1.0	-47.9	-13.0	-34.9	
	5.640	-8.8	H	3.0	34.7	1.0	-42.5	-13.0	-29.5	
	7.520	-6.3	H	3.0	34.9	1.0	-40.2	-13.0	-27.2	
High Ch, 1908.75 MHz										
	3.818	-21.1	V	3.0	35.3	1.0	-55.4	-13.0	-42.4	
	5.726	-19.8	V	3.0	34.7	1.0	-53.5	-13.0	-40.5	
	7.635	-19.7	V	3.0	34.9	1.0	-53.7	-13.0	-40.7	
	3.818	-19.0	H	3.0	35.3	1.0	-53.3	-13.0	-40.3	
	5.726	-20.4	H	3.0	34.7	1.0	-54.1	-13.0	-41.1	
	7.635	-18.7	H	3.0	34.9	1.0	-52.6	-13.0	-39.6	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																					
Band BC0 EVDO REL. 0	Company:		LG																																																																																																																																																																																																																																		
	Project #:		14U17502																																																																																																																																																																																																																																		
	Date:		5/16/14																																																																																																																																																																																																																																		
	Test Engineer:		D. Soper																																																																																																																																																																																																																																		
	Configuration:		EUT with AC adapter & HS																																																																																																																																																																																																																																		
	Mode:		EVDOR0 BC0 HARM																																																																																																																																																																																																																																		
	Chamber		Pre-amplifier		Filter		Limit																																																																																																																																																																																																																														
	5m Chamber A		T343 8449B		Filter 1		Part 24																																																																																																																																																																																																																														
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>f GHz</th> <th>SG reading (dBm)</th> <th>Ant. Pol. (H/V)</th> <th>Distance (m)</th> <th>Preamp (dB)</th> <th>Filter (dB)</th> <th>EIRP (dBm)</th> <th>Limit (dBm)</th> <th>Delta (dB)</th> <th>Notes</th> </tr> </thead> <tbody> <tr><td colspan="10">Low Ch, 824.7MHz</td></tr> <tr><td>1.650</td><td>-31.5</td><td>V</td><td>3.0</td><td>37.4</td><td>1.0</td><td>-67.8</td><td>-13.0</td><td>-54.8</td><td></td></tr> <tr><td>2.474</td><td>-25.5</td><td>V</td><td>3.0</td><td>36.4</td><td>1.0</td><td>-60.9</td><td>-13.0</td><td>-47.9</td><td></td></tr> <tr><td>3.298</td><td>-26.4</td><td>V</td><td>3.0</td><td>35.8</td><td>1.0</td><td>-61.2</td><td>-13.0</td><td>-48.2</td><td></td></tr> <tr><td>1.650</td><td>-30.5</td><td>H</td><td>3.0</td><td>37.4</td><td>1.0</td><td>-66.9</td><td>-13.0</td><td>-53.9</td><td></td></tr> <tr><td>2.474</td><td>-19.0</td><td>H</td><td>3.0</td><td>36.4</td><td>1.0</td><td>-54.4</td><td>-13.0</td><td>-41.4</td><td></td></tr> <tr><td>3.298</td><td>-26.6</td><td>H</td><td>3.0</td><td>35.8</td><td>1.0</td><td>-61.4</td><td>-13.0</td><td>-48.4</td><td></td></tr> <tr><td colspan="10">Mid Ch, 836.52MHz</td></tr> <tr><td>1.673</td><td>-24.7</td><td>V</td><td>3.0</td><td>37.3</td><td>1.0</td><td>-61.0</td><td>-13.0</td><td>-48.0</td><td></td></tr> <tr><td>2.509</td><td>-27.8</td><td>V</td><td>3.0</td><td>36.4</td><td>1.0</td><td>-63.1</td><td>-13.0</td><td>-50.1</td><td></td></tr> <tr><td>3.346</td><td>-25.9</td><td>V</td><td>3.0</td><td>35.8</td><td>1.0</td><td>-60.7</td><td>-13.0</td><td>-47.7</td><td></td></tr> <tr><td>1.673</td><td>-25.2</td><td>H</td><td>3.0</td><td>37.3</td><td>1.0</td><td>-61.6</td><td>-13.0</td><td>-48.6</td><td></td></tr> <tr><td>2.509</td><td>-22.3</td><td>H</td><td>3.0</td><td>36.4</td><td>1.0</td><td>-57.7</td><td>-13.0</td><td>-44.7</td><td></td></tr> <tr><td>3.346</td><td>-26.0</td><td>H</td><td>3.0</td><td>35.8</td><td>1.0</td><td>-60.8</td><td>-13.0</td><td>-47.8</td><td></td></tr> <tr><td colspan="10">High Ch, 848.31 MHz</td></tr> <tr><td>1.696</td><td>-8.4</td><td>V</td><td>3.0</td><td>37.3</td><td>1.0</td><td>-44.7</td><td>-13.0</td><td>-31.7</td><td></td></tr> <tr><td>2.544</td><td>-16.1</td><td>V</td><td>3.0</td><td>36.3</td><td>1.0</td><td>-51.5</td><td>-13.0</td><td>-38.5</td><td></td></tr> <tr><td>3.393</td><td>-13.8</td><td>V</td><td>3.0</td><td>35.7</td><td>1.0</td><td>-48.5</td><td>-13.0</td><td>-35.5</td><td></td></tr> <tr><td>1.696</td><td>5.3</td><td>H</td><td>3.0</td><td>37.3</td><td>1.0</td><td>-31.0</td><td>-13.0</td><td>-18.0</td><td></td></tr> <tr><td>2.544</td><td>-9.3</td><td>H</td><td>3.0</td><td>36.3</td><td>1.0</td><td>-44.6</td><td>-13.0</td><td>-31.6</td><td></td></tr> <tr><td>3.393</td><td>-13.4</td><td>H</td><td>3.0</td><td>35.7</td><td>1.0</td><td>-48.1</td><td>-13.0</td><td>-35.1</td><td></td></tr> </tbody> </table>									f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, 824.7MHz										1.650	-31.5	V	3.0	37.4	1.0	-67.8	-13.0	-54.8		2.474	-25.5	V	3.0	36.4	1.0	-60.9	-13.0	-47.9		3.298	-26.4	V	3.0	35.8	1.0	-61.2	-13.0	-48.2		1.650	-30.5	H	3.0	37.4	1.0	-66.9	-13.0	-53.9		2.474	-19.0	H	3.0	36.4	1.0	-54.4	-13.0	-41.4		3.298	-26.6	H	3.0	35.8	1.0	-61.4	-13.0	-48.4		Mid Ch, 836.52MHz										1.673	-24.7	V	3.0	37.3	1.0	-61.0	-13.0	-48.0		2.509	-27.8	V	3.0	36.4	1.0	-63.1	-13.0	-50.1		3.346	-25.9	V	3.0	35.8	1.0	-60.7	-13.0	-47.7		1.673	-25.2	H	3.0	37.3	1.0	-61.6	-13.0	-48.6		2.509	-22.3	H	3.0	36.4	1.0	-57.7	-13.0	-44.7		3.346	-26.0	H	3.0	35.8	1.0	-60.8	-13.0	-47.8		High Ch, 848.31 MHz										1.696	-8.4	V	3.0	37.3	1.0	-44.7	-13.0	-31.7		2.544	-16.1	V	3.0	36.3	1.0	-51.5	-13.0	-38.5		3.393	-13.8	V	3.0	35.7	1.0	-48.5	-13.0	-35.5		1.696	5.3	H	3.0	37.3	1.0	-31.0	-13.0	-18.0		2.544	-9.3	H	3.0	36.3	1.0	-44.6	-13.0	-31.6		3.393	-13.4	H	3.0	35.7	1.0	-48.1	-13.0	-35.1	
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																																											
Low Ch, 824.7MHz																																																																																																																																																																																																																																					
1.650	-31.5	V	3.0	37.4	1.0	-67.8	-13.0	-54.8																																																																																																																																																																																																																													
2.474	-25.5	V	3.0	36.4	1.0	-60.9	-13.0	-47.9																																																																																																																																																																																																																													
3.298	-26.4	V	3.0	35.8	1.0	-61.2	-13.0	-48.2																																																																																																																																																																																																																													
1.650	-30.5	H	3.0	37.4	1.0	-66.9	-13.0	-53.9																																																																																																																																																																																																																													
2.474	-19.0	H	3.0	36.4	1.0	-54.4	-13.0	-41.4																																																																																																																																																																																																																													
3.298	-26.6	H	3.0	35.8	1.0	-61.4	-13.0	-48.4																																																																																																																																																																																																																													
Mid Ch, 836.52MHz																																																																																																																																																																																																																																					
1.673	-24.7	V	3.0	37.3	1.0	-61.0	-13.0	-48.0																																																																																																																																																																																																																													
2.509	-27.8	V	3.0	36.4	1.0	-63.1	-13.0	-50.1																																																																																																																																																																																																																													
3.346	-25.9	V	3.0	35.8	1.0	-60.7	-13.0	-47.7																																																																																																																																																																																																																													
1.673	-25.2	H	3.0	37.3	1.0	-61.6	-13.0	-48.6																																																																																																																																																																																																																													
2.509	-22.3	H	3.0	36.4	1.0	-57.7	-13.0	-44.7																																																																																																																																																																																																																													
3.346	-26.0	H	3.0	35.8	1.0	-60.8	-13.0	-47.8																																																																																																																																																																																																																													
High Ch, 848.31 MHz																																																																																																																																																																																																																																					
1.696	-8.4	V	3.0	37.3	1.0	-44.7	-13.0	-31.7																																																																																																																																																																																																																													
2.544	-16.1	V	3.0	36.3	1.0	-51.5	-13.0	-38.5																																																																																																																																																																																																																													
3.393	-13.8	V	3.0	35.7	1.0	-48.5	-13.0	-35.5																																																																																																																																																																																																																													
1.696	5.3	H	3.0	37.3	1.0	-31.0	-13.0	-18.0																																																																																																																																																																																																																													
2.544	-9.3	H	3.0	36.3	1.0	-44.6	-13.0	-31.6																																																																																																																																																																																																																													
3.393	-13.4	H	3.0	35.7	1.0	-48.1	-13.0	-35.1																																																																																																																																																																																																																													
Rev. 03.03.09																																																																																																																																																																																																																																					
Note: No other emissions were detected above the system noise floor.																																																																																																																																																																																																																																					

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: LG Project #: 14U17501 Date: 05/02/14 Test Engineer: O. Stoelting, D. Soper Configuration: EUT with AC charger & HS Mode: CDMA RTT BC0										
Chamber 5m Chamber A		Pre-amplifier T34 8449B		Filter Filter 1		Limit Part 24				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
BC0 1xRTT	Low Ch, 824.2MHz									
	1.648	-33.5	V	3.0	37.4	1.0	-69.9	-13.0	-56.9	
	2.473	-25.8	V	3.0	36.4	1.0	-61.2	-13.0	-48.2	
	3.297	-27.4	V	3.0	35.8	1.0	-62.2	-13.0	-49.2	
	1.648	-33.8	H	3.0	37.4	1.0	-70.2	-13.0	-57.2	
	2.473	-30.2	H	3.0	36.4	1.0	-65.6	-13.0	-52.6	
	3.297	-27.9	H	3.0	35.8	1.0	-62.7	-13.0	-49.7	
	Mid Ch, 836.52MHz									
	1.673	-18.8	V	3.0	37.3	1.0	-55.1	-13.0	-42.1	
	2.510	-28.5	V	3.0	36.4	1.0	-63.8	-13.0	-50.8	
	3.346	-27.6	V	3.0	35.8	1.0	-62.3	-13.0	-49.3	
	1.673	-11.2	H	3.0	37.3	1.0	-47.6	-13.0	-34.6	
	2.510	-18.2	H	3.0	36.4	1.0	-53.6	-13.0	-40.6	
	3.346	-27.7	H	3.0	35.8	1.0	-62.5	-13.0	-49.5	
	High Ch, 848.31MHz									
	1.697	-33.5	V	3.0	37.3	1.0	-69.8	-13.0	-56.8	
	2.545	-29.3	V	3.0	36.3	1.0	-64.7	-13.0	-51.7	
	3.393	-27.5	V	3.0	35.7	1.0	-62.2	-13.0	-49.2	
	1.697	-33.7	H	3.0	37.3	1.0	-70.0	-13.0	-57.0	
	2.545	-30.9	H	3.0	36.3	1.0	-66.2	-13.0	-53.2	
	3.393	-27.7	H	3.0	35.7	1.0	-62.4	-13.0	-49.4	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		LG 14U17502 05/03/14 R. Alegre EUT with AC charger Tx, 1900MHz HSDPA								
		Chamber	Pre-amplifier	Filter	Limit					
		5m Chamber A	T34 8449B	Filter 1	Part 24					
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1852.4MHz									
	3.705	-19.1	V	3.0	35.4	1.0	-53.5	-13.0	-40.5	
Band 2	5.557	-14.1	V	3.0	34.7	1.0	-47.8	-13.0	-34.8	
	7.409	-13.6	V	3.0	34.9	1.0	-47.5	-13.0	-34.5	
HSDPA	3.705	-18.3	H	3.0	35.4	1.0	-52.7	-13.0	-39.7	
	5.557	-14.2	H	3.0	34.7	1.0	-47.9	-13.0	-34.9	
	7.409	-12.6	H	3.0	34.9	1.0	-46.6	-13.0	-33.6	
	Mid Ch, 1880MHz									
	3.760	-17.8	V	3.0	35.3	1.0	-52.2	-13.0	-39.2	
	5.640	-14.8	V	3.0	34.7	1.0	-48.5	-13.0	-35.5	
	7.520	-13.0	V	3.0	34.9	1.0	-46.9	-13.0	-33.9	
	3.760	-17.7	H	3.0	35.3	1.0	-52.0	-13.0	-39.0	
	5.640	-16.1	H	3.0	34.7	1.0	-49.8	-13.0	-36.8	
	7.520	-12.5	H	3.0	34.9	1.0	-46.5	-13.0	-33.5	
	High Ch, 1907.6MHz									
	3.815	-18.0	V	3.0	35.3	1.0	-52.3	-13.0	-39.3	
	5.723	-13.8	V	3.0	34.7	1.0	-47.5	-13.0	-34.5	
	7.630	-12.6	V	3.0	34.9	1.0	-46.6	-13.0	-33.6	
	3.815	-11.6	H	3.0	35.3	1.0	-45.9	-13.0	-32.9	
	5.723	-12.1	H	3.0	34.7	1.0	-45.9	-13.0	-32.9	
	7.630	-12.5	H	3.0	34.9	1.0	-46.4	-13.0	-33.4	
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: Project #: Date: Test Engineer: Configuration: Mode:		LG 14U17502 05/03/14 R. Alegre EUT with AC charger Tx, 1900MHz Rel 99								
Chamber 5m Chamber A		Pre-amplifier T34 8449B		Filter Filter 1		Limit Part 24				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1852.4MHz									
	3.705	-18.4	V	3.0	35.4	1.0	-52.8	-13.0	-39.8	
Band 2	5.557	-14.6	V	3.0	34.7	1.0	-48.3	-13.0	-35.3	
	7.409	-13.6	V	3.0	34.9	1.0	-47.5	-13.0	-34.5	
REL99	3.705	-18.7	H	3.0	35.4	1.0	-53.1	-13.0	-40.1	
	5.557	-13.4	H	3.0	34.7	1.0	-47.1	-13.0	-34.1	
	7.409	-12.5	H	3.0	34.9	1.0	-46.4	-13.0	-33.4	
	Mid Ch, 1880MHz									
	3.760	-17.7	V	3.0	35.3	1.0	-52.0	-13.0	-39.0	
	5.640	-14.9	V	3.0	34.7	1.0	-48.6	-13.0	-35.6	
	7.520	-13.0	V	3.0	34.9	1.0	-46.9	-13.0	-33.9	
	3.760	-17.6	H	3.0	35.3	1.0	-51.9	-13.0	-38.9	
	5.640	-15.2	H	3.0	34.7	1.0	-48.9	-13.0	-35.9	
	7.520	-12.2	H	3.0	34.9	1.0	-46.1	-13.0	-33.1	
	High Ch, 1907.6MHz									
	3.815	-17.3	V	3.0	35.3	1.0	-51.6	-13.0	-38.6	
	5.723	-13.7	V	3.0	34.7	1.0	-47.5	-13.0	-34.5	
	7.630	-13.1	V	3.0	34.9	1.0	-47.1	-13.0	-34.1	
	3.815	-11.5	H	3.0	35.3	1.0	-45.8	-13.0	-32.8	
	5.723	-12.3	H	3.0	34.7	1.0	-46.0	-13.0	-33.0	
	7.630	-12.0	H	3.0	34.9	1.0	-45.9	-13.0	-32.9	
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company: LG Project #: 14U17502 Date: 05/03/14 Test Engineer: R. Alegre Configuration: EUT with AC charger Mode: WCDMA_HSDPA_850									
Chamber		Pre-amplifier		Filter		Limit			
5m Chamber A		T34 8449B		Filter 1		Part 24			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.40MHz									
Band 1.652	-27.4	V	3.0	37.4	1.0	-63.7	-13.0	-50.7	
2.479	-23.5	V	3.0	36.4	1.0	-58.9	-13.0	-45.9	
Band 3.306	-21.1	V	3.0	35.8	1.0	-55.9	-13.0	-42.9	
1.652	-27.0	H	3.0	37.4	1.0	-63.4	-13.0	-50.4	
2.479	-24.2	H	3.0	36.4	1.0	-59.6	-13.0	-46.6	
HSDPA 3.306	-20.7	H	3.0	35.8	1.0	-55.5	-13.0	-42.5	
Mid Ch, 836.6MHz									
1.673	-27.0	V	3.0	37.3	1.0	-63.4	-13.0	-50.4	
2.510	-23.0	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
3.346	-21.1	V	3.0	35.8	1.0	-55.8	-13.0	-42.8	
1.673	-28.4	H	3.0	37.3	1.0	-64.8	-13.0	-51.8	
2.510	-23.5	H	3.0	36.4	1.0	-58.9	-13.0	-45.9	
3.346	-21.2	H	3.0	35.8	1.0	-56.0	-13.0	-43.0	
High Ch, 846.6MHz									
1.693	-22.6	V	3.0	37.3	1.0	-58.9	-13.0	-45.9	
2.539	-22.2	V	3.0	36.3	1.0	-57.5	-13.0	-44.5	
3.386	-20.7	V	3.0	35.7	1.0	-55.4	-13.0	-42.4	
1.693	-26.3	H	3.0	37.3	1.0	-62.6	-13.0	-49.6	
2.539	-18.4	H	3.0	36.3	1.0	-53.8	-13.0	-40.8	
3.386	-20.3	H	3.0	35.7	1.0	-55.0	-13.0	-42.0	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
Company:		LG							
Project #:		14U17502							
Date:		05/03/14							
Test Engineer:		R. Alegre							
Configuration:		EUT with AC charger							
Mode:		WCDMA_Rel 99_ 850							
Chamber		Pre-amplifer		Filter		Limit			
5m Chamber A		T34 8449B		Filter 1		Part 24			
f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.40MHz									
Band 1.652	-27.1	V	3.0	37.4	1.0	-63.5	-13.0	-50.5	
2.479	-23.2	V	3.0	36.4	1.0	-58.5	-13.0	-45.5	
Band 3.306	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
REL99 1.652	-26.8	H	3.0	37.4	1.0	-63.2	-13.0	-50.2	
2.479	-23.3	H	3.0	36.4	1.0	-58.6	-13.0	-45.6	
3.306	-20.9	H	3.0	35.8	1.0	-55.7	-13.0	-42.7	
Mid Ch, 836.6MHz									
1.673	-26.8	V	3.0	37.3	1.0	-63.2	-13.0	-50.2	
2.510	-22.5	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
3.346	-20.9	V	3.0	35.8	1.0	-55.7	-13.0	-42.7	
1.673	-27.3	H	3.0	37.3	1.0	-63.7	-13.0	-50.7	
2.510	-23.3	H	3.0	36.4	1.0	-58.6	-13.0	-45.6	
3.346	-20.2	H	3.0	35.8	1.0	-55.0	-13.0	-42.0	
High Ch, 846.6MHz									
1.693	-23.5	V	3.0	37.3	1.0	-59.8	-13.0	-46.8	
2.539	-22.9	V	3.0	36.3	1.0	-58.2	-13.0	-45.2	
3.386	-19.9	V	3.0	35.7	1.0	-54.7	-13.0	-41.7	
1.693	-25.8	H	3.0	37.3	1.0	-62.1	-13.0	-49.1	
2.539	-17.8	H	3.0	36.3	1.0	-53.2	-13.0	-40.2	
3.386	-20.7	H	3.0	35.7	1.0	-55.5	-13.0	-42.5	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company:	LG									
Project #:	14U17502									
Date:	05/03/14									
Test Engineer:	R. Alegre									
Configuration:	EUT with AC charger									
Mode:	EGPRS 1900									
Chamber 5m Chamber A Pre-amplifier T343 8449B Filter Filter 1 Limit Part 24										
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
GSM19 00 EGPRS	Low Ch, 1850MHz									
	3.700	-18.7	V	3.0	35.4	1.0	-53.1	-13.0	-40.1	
	5.550	-15.1	V	3.0	34.7	1.0	-48.8	-13.0	-35.8	
	7.400	-14.1	V	3.0	34.9	1.0	-48.0	-13.0	-35.0	
	3.700	-18.4	H	3.0	35.4	1.0	-52.8	-13.0	-39.8	
	5.550	-16.5	H	3.0	34.7	1.0	-50.2	-13.0	-37.2	
	7.400	-10.9	H	3.0	34.9	1.0	-44.8	-13.0	-31.8	
	Mid Ch, 1880.0MHz									
	3.760	-18.2	V	3.0	35.3	1.0	-52.6	-13.0	-39.6	
	5.640	-16.2	V	3.0	34.7	1.0	-50.0	-13.0	-37.0	
	7.520	-13.9	V	3.0	34.9	1.0	-47.8	-13.0	-34.8	
	3.760	-17.6	H	3.0	35.3	1.0	-51.9	-13.0	-38.9	
	5.640	-15.1	H	3.0	34.7	1.0	-48.9	-13.0	-35.9	
	7.520	-12.3	H	3.0	34.9	1.0	-46.2	-13.0	-33.2	
	High Ch, 1909.8 MHz									
	3.820	-19.1	V	3.0	35.3	1.0	-53.3	-13.0	-40.3	
	5.729	-16.2	V	3.0	34.7	1.0	-50.0	-13.0	-37.0	
	7.639	-13.7	V	3.0	35.0	1.0	-47.7	-13.0	-34.7	
3.820	-15.3	H	3.0	35.3	1.0	-49.6	-13.0	-36.6		
5.729	-14.3	H	3.0	34.7	1.0	-48.1	-13.0	-35.1		
7.639	-13.1	H	3.0	35.0	1.0	-47.0	-13.0	-34.0		
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
Company: LG Project #: 14U17502 Date: 05/03/14 Test Engineer: R. Alegre Configuration: EUT with AC charger Mode: GPRS 1900										
Chamber 5m Chamber A		Pre-amplifier T343 8449B		Filter Filter 1		Limit Part 24				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
GSM19 00 GPRS	Low Ch, 1850MHz									
	3.700	-18.3	V	3.0	35.4	1.0	-52.7	-13.0	-39.7	
	5.550	-15.4	V	3.0	34.7	1.0	-49.1	-13.0	-36.1	
	7.400	-14.1	V	3.0	34.9	1.0	-48.0	-13.0	-35.0	
	3.700	-18.2	H	3.0	35.4	1.0	-52.6	-13.0	-39.6	
	5.550	-15.7	H	3.0	34.7	1.0	-49.4	-13.0	-36.4	
	7.400	-11.9	H	3.0	34.9	1.0	-45.8	-13.0	-32.8	
	Mid Ch, 1880.0MHz									
	3.760	-18.5	V	3.0	35.3	1.0	-52.9	-13.0	-39.9	
	5.640	-15.7	V	3.0	34.7	1.0	-49.4	-13.0	-36.4	
	7.520	-13.9	V	3.0	34.9	1.0	-47.9	-13.0	-34.9	
	3.760	-17.1	H	3.0	35.3	1.0	-51.4	-13.0	-38.4	
	5.640	-15.7	H	3.0	34.7	1.0	-49.5	-13.0	-36.5	
	7.520	-12.4	H	3.0	34.9	1.0	-46.4	-13.0	-33.4	
	High Ch, 1909.8 MHz									
3.820	-19.3	V	3.0	35.3	1.0	-53.5	-13.0	-40.5		
5.729	-16.4	V	3.0	34.7	1.0	-50.1	-13.0	-37.1		
7.639	-13.7	V	3.0	35.0	1.0	-47.7	-13.0	-34.7		
3.820	-15.0	H	3.0	35.3	1.0	-49.3	-13.0	-36.3		
5.729	-14.4	H	3.0	34.7	1.0	-48.2	-13.0	-35.2		
7.639	-12.8	H	3.0	35.0	1.0	-46.7	-13.0	-33.7		
Rev. 03.03.09										

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company:
Project #:
Date:
Test Engineer:
Configuration:
Mode:

LG

14U17502

05/03/14

R. Alegre

EUT with AC charger

EGPRS 850

Chamber

5m Chamber A

Pre-amplifier

T34 8449B

Filter

Filter 1

Limit

Part 24

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.2MHz									
1.648	-27.5	V	3.0	37.4	1.0	-63.9	-13.0	-50.9	
2.473	-23.0	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
3.297	-21.5	V	3.0	35.8	1.0	-56.3	-13.0	-43.3	
1.648	-27.6	H	3.0	37.4	1.0	-64.0	-13.0	-51.0	
2.473	-24.2	H	3.0	36.4	1.0	-59.6	-13.0	-46.6	
3.297	-20.8	H	3.0	35.8	1.0	-55.6	-13.0	-42.6	
Mid Ch, 836.6MHz									
1.673	-27.4	V	3.0	37.3	1.0	-63.7	-13.0	-50.7	
2.510	-23.5	V	3.0	36.4	1.0	-58.8	-13.0	-45.8	
3.346	-20.8	V	3.0	35.8	1.0	-55.5	-13.0	-42.5	
1.673	-27.9	H	3.0	37.3	1.0	-64.2	-13.0	-51.2	
2.510	-23.1	H	3.0	36.4	1.0	-58.5	-13.0	-45.5	
3.346	-20.8	H	3.0	35.8	1.0	-55.6	-13.0	-42.6	
High Ch, 848.8MHz									
1.698	-24.8	V	3.0	37.3	1.0	-61.1	-13.0	-48.1	
2.547	-21.7	V	3.0	36.3	1.0	-57.1	-13.0	-44.1	
3.395	-19.4	V	3.0	35.7	1.0	-54.1	-13.0	-41.1	
1.698	-23.7	H	3.0	37.3	1.0	-60.0	-13.0	-47.0	
2.547	-19.8	H	3.0	36.3	1.0	-55.1	-13.0	-42.1	
3.395	-20.2	H	3.0	35.7	1.0	-54.9	-13.0	-41.9	

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

Page 176 of 199