TEST PROCEDURE

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

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

MODES TESTED

GSM, WCDMA, CDMA, and LTE

RESULTS

11.2.1. SPURIOUS RADIATION PLOTS

GSM

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

Company:	Sony
Project #:	15U20107
Date:	4/6/2015
Test Engineer:	K.Kedida
Configuration:	EUT/AC Charger/ HS
Location:	Chamber C
Mode:	EGPRS 1900 MHz Harmonics

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1850.2									
	3700.40	-15.0	V	3.0	35.9	1.0	-49.9	-13.0	-36.9	
	5550.60	-13.5	V	3.0	35.5	1.0	-48.0	-13.0	-35.0	
GSM	7400.80	-15.1	V	3.0	35.7	1.0	-49.8	-13.0	-36.8	
1900	3700.40	-17.1	H	3.0	35.9	1.0	-52.0	-13.0	-39.0	
	5550.60	-16.8	H	3.0	35.5	1.0	-51.2	-13.0	-38.2	
EGPRS	7400.80	-14.1	H	3.0	35.7	1.0	-48.8	-13.0	-35.8	
	Mid Ch, 1880									
	3760.00	-16.8	V	3.0	35.8	1.0	-51.7	-13.0	-38.7	
	5640.00	-15.3	V	3.0	35.5	1.0	-49.8	-13.0	-36.8	
	7520.00	-15.2	V	3.0	35.7	1.0	-50.0	-13.0	-37.0	
	3760.00	-18.3	H	3.0	35.8	1.0	-53.1	-13.0	-40.1	
	5640.00	-16.5	H	3.0	35.5	1.0	-51.0	-13.0	-38.0	
	7520.00	-13.9	H	3.0	35.7	1.0	-48.7	-13.0	-35.7	
	High Ch, 1909.8									
	3819.60	-15.9	V	3.0	35.8	1.0	-50.7	-13.0	-37.7	
	5729.40	-14.2	V	3.0	35.5	1.0	-48.7	-13.0	-35.7	
	7639.20	-14.9	V	3.0	35.8	1.0	-49.7	-13.0	-36.7	
	3819.60	-17.5	H	3.0	35.8	1.0	-52.3	-13.0	-39.3	
	5729.40	-16.0	H	3.0	35.5	1.0	-50.5	-13.0	-37.5	
	7639.20	-13.7	H	3.0	35.8	1.0	-48.4	-13.0	-35.4	

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

Company: Sony
Project #: 15U20107
Date: 4/6/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber C
Mode: GPRS 1900 MHz Harmonics

Band

GSM 1900

GPRS

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.2									
3700.40	-14.1	V	3.0	35.9	1.0	-49.0	-13.0	-36.0	
5550.60	-12.7	V	3.0	35.5	1.0	-47.2	-13.0	-34.2	
7400.80	-14.4	V	3.0	35.7	1.0	-49.1	-13.0	-36.1	
3700.40	-18.3	H	3.0	35.9	1.0	-53.2	-13.0	-40.2	
5550.60	-16.8	H	3.0	35.5	1.0	-51.2	-13.0	-38.2	
7400.80	-13.5	H	3.0	35.7	1.0	-48.2	-13.0	-35.2	
Mid Ch, 1880									
3760.00	-15.8	V	3.0	35.8	1.0	-50.6	-13.0	-37.6	
5640.00	-14.3	V	3.0	35.5	1.0	-48.8	-13.0	-35.8	
7520.00	-15.6	V	3.0	35.7	1.0	-50.4	-13.0	-37.4	
3760.00	-18.0	H	3.0	35.8	1.0	-52.8	-13.0	-39.8	
5640.00	-16.2	H	3.0	35.5	1.0	-50.7	-13.0	-37.7	
7520.00	-13.6	H	3.0	35.7	1.0	-48.4	-13.0	-35.4	
High Ch, 1909.8									
3819.60	-14.9	V	3.0	35.8	1.0	-49.7	-13.0	-36.7	
5729.40	-13.1	V	3.0	35.5	1.0	-47.6	-13.0	-34.6	
7639.20	-14.9	V	3.0	35.8	1.0	-49.7	-13.0	-36.7	
3819.60	-16.8	H	3.0	35.8	1.0	-51.6	-13.0	-38.6	
5729.40	-16.2	H	3.0	35.5	1.0	-50.7	-13.0	-37.7	
7639.20	-13.8	H	3.0	35.8	1.0	-48.6	-13.0	-35.6	

Band

GSM 850

EGPRS

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

Company:	SONY
Project #:	15U20107
Date:	4/7/2015
Test Engineer:	Jude Semana
Configuration:	EUT w/ AC Charger + HS
Mode:	EGPRS 850

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 22

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.2MHz									
1.648	-25.7	V	3.0	37.4	1.0	-62.1	-13.0	-49.1	
2.473	-20.6	V	3.0	36.4	1.0	-56.0	-13.0	-43.0	
3.297	-21.0	V	3.0	35.8	1.0	-55.8	-13.0	-42.8	
1.648	-26.9	H	3.0	37.4	1.0	-63.3	-13.0	-50.3	
2.473	-23.0	H	3.0	36.4	1.0	-58.4	-13.0	-45.4	
3.297	-21.1	H	3.0	35.8	1.0	-55.9	-13.0	-42.9	
Mid Ch, 836.6MHz									
1.673	-25.1	V	3.0	37.3	1.0	-61.4	-13.0	-48.4	
2.510	-20.8	V	3.0	36.4	1.0	-56.1	-13.0	-43.1	
3.346	-20.4	V	3.0	35.8	1.0	-55.1	-13.0	-42.1	
1.673	-26.4	H	3.0	37.3	1.0	-62.8	-13.0	-49.8	
2.510	-22.8	H	3.0	36.4	1.0	-58.2	-13.0	-45.2	
3.346	-20.5	H	3.0	35.8	1.0	-55.3	-13.0	-42.3	
High Ch, 848.8MHz									
1.698	-25.6	V	3.0	37.3	1.0	-61.9	-13.0	-48.9	
2.547	-21.7	V	3.0	36.3	1.0	-57.0	-13.0	-44.0	
3.395	-20.6	V	3.0	35.7	1.0	-55.3	-13.0	-42.3	
1.698	-25.6	H	3.0	37.3	1.0	-61.9	-13.0	-48.9	
2.547	-23.9	H	3.0	36.3	1.0	-59.2	-13.0	-46.2	
3.395	-19.8	H	3.0	35.7	1.0	-54.5	-13.0	-41.5	

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

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

Company:	SONY
Project #:	15U20107
Date:	4/7/2015
Test Engineer:	Jude Semana
Configuration:	EUT w/ AC Charger + HS
Mode:	GPRS 850

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 22

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 824.2MHz									
GSM 850 GPRS	1.648	-26.1	V	3.0	37.4	1.0	-62.5	-13.0	-49.5	
	2.473	-20.5	V	3.0	36.4	1.0	-55.9	-13.0	-42.9	
	3.297	-21.4	V	3.0	35.8	1.0	-56.2	-13.0	-43.2	
	1.648	-26.6	H	3.0	37.4	1.0	-62.9	-13.0	-49.9	
	2.473	-22.4	H	3.0	36.4	1.0	-57.8	-13.0	-44.8	
	3.297	-21.6	H	3.0	35.8	1.0	-56.4	-13.0	-43.4	
	Mid Ch, 836.6MHz									
	1.673	-25.3	V	3.0	37.3	1.0	-61.6	-13.0	-48.6	
	2.510	-21.2	V	3.0	36.4	1.0	-56.5	-13.0	-43.5	
	3.346	-20.7	V	3.0	35.8	1.0	-55.5	-13.0	-42.5	
	1.673	-25.5	H	3.0	37.3	1.0	-61.8	-13.0	-48.8	
	2.510	-22.2	H	3.0	36.4	1.0	-57.6	-13.0	-44.6	
	3.346	-20.6	H	3.0	35.8	1.0	-55.3	-13.0	-42.3	
	High Ch, 848.8MHz									
	1.698	-25.6	V	3.0	37.3	1.0	-61.9	-13.0	-48.9	
	2.547	-22.1	V	3.0	36.3	1.0	-57.5	-13.0	-44.5	
	3.395	-20.3	V	3.0	35.7	1.0	-55.0	-13.0	-42.0	
	1.698	-25.9	H	3.0	37.3	1.0	-62.2	-13.0	-49.2	
	2.547	-23.8	H	3.0	36.3	1.0	-59.1	-13.0	-46.1	
	3.395	-20.5	H	3.0	35.7	1.0	-55.2	-13.0	-42.2	

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

WCDMA

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

Company: Sony
Project #: 15U20107
Date: 04/04/15
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/HS
Mode: HSDPA_B2

Chamber	Pre-amplifer	Filter	Limit
5m Chamber A	T34 8449B	Filter 1	Part 24

Band: Band 2 HSDPA

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	-17.9	V	3.0	35.4	1.0	-52.3	-13.0	-39.3	
5.557	-14.3	V	3.0	34.7	1.0	-48.0	-13.0	-35.0	
7.410	-12.9	V	3.0	34.9	1.0	-46.8	-13.0	-33.8	
3.705	-17.8	H	3.0	35.4	1.0	-52.2	-13.0	-39.2	
5.557	-13.4	H	3.0	34.7	1.0	-47.2	-13.0	-34.2	
7.410	-11.8	H	3.0	34.9	1.0	-45.7	-13.0	-32.7	
Mid Ch, 1880MHz									
3.760	-17.4	V	3.0	35.3	1.0	-51.8	-13.0	-38.8	
5.640	-14.2	V	3.0	34.7	1.0	-47.9	-13.0	-34.9	
7.520	-12.6	V	3.0	34.9	1.0	-46.5	-13.0	-33.5	
3.760	-16.6	H	3.0	35.3	1.0	-51.0	-13.0	-38.0	
5.640	-12.5	H	3.0	34.7	1.0	-46.2	-13.0	-33.2	
7.520	-11.6	H	3.0	34.9	1.0	-45.6	-13.0	-32.6	
High Ch, 1907.6MHz									
3.815	-17.8	V	3.0	35.3	1.0	-52.1	-13.0	-39.1	
5.723	-12.6	V	3.0	34.7	1.0	-46.4	-13.0	-33.4	
7.630	-12.3	V	3.0	34.9	1.0	-46.3	-13.0	-33.3	
3.815	-17.3	H	3.0	35.3	1.0	-51.6	-13.0	-38.6	
5.723	-13.5	H	3.0	34.7	1.0	-47.3	-13.0	-34.3	
7.630	-12.3	H	3.0	34.9	1.0	-46.3	-13.0	-33.3	

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

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

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/HS
Mode: REL99_B2

Chamber	Pre-amplifer	Filter	Limit
5m Chamber G	T34 8449B	Filter 1	Part 24

Band

Band 2

REL99

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	-17.7	V	3.0	35.4	1.0	-52.1	-13.0	-39.1	
5.557	-13.9	V	3.0	34.7	1.0	-47.7	-13.0	-34.7	
7.410	-12.8	V	3.0	34.9	1.0	-46.7	-13.0	-33.7	
3.705	-18.5	H	3.0	35.4	1.0	-52.9	-13.0	-39.9	
5.557	-12.6	H	3.0	34.7	1.0	-46.4	-13.0	-33.4	
7.410	-11.9	H	3.0	34.9	1.0	-45.8	-13.0	-32.8	
Mid Ch, 1880MHz									
3.760	-16.4	V	3.0	35.3	1.0	-50.8	-13.0	-37.8	
5.640	-13.4	V	3.0	34.7	1.0	-47.2	-13.0	-34.2	
7.520	-12.9	V	3.0	34.9	1.0	-46.9	-13.0	-33.9	
3.760	-17.4	H	3.0	35.3	1.0	-51.7	-13.0	-38.7	
5.640	-11.9	H	3.0	34.7	1.0	-45.6	-13.0	-32.6	
7.520	-11.4	H	3.0	34.9	1.0	-45.4	-13.0	-32.4	
High Ch, 1907.6MHz									
3.815	-17.0	V	3.0	35.3	1.0	-51.3	-13.0	-38.3	
5.723	-13.9	V	3.0	34.7	1.0	-47.7	-13.0	-34.7	
7.630	-12.7	V	3.0	34.9	1.0	-46.6	-13.0	-33.6	
3.815	-17.3	H	3.0	35.3	1.0	-51.6	-13.0	-38.6	
5.723	-12.6	H	3.0	34.7	1.0	-46.4	-13.0	-33.4	
7.630	-11.2	H	3.0	34.9	1.0	-45.1	-13.0	-32.1	

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

Band

Band 5

HSDPA

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

Company: SONY
Project #: 15U20107
Date: 4/7/2015
Test Engineer: Jude Semana
Configuration: EUT + Charger + HS
Location: Chamber G
Mode: HSDPA Band 5 Harmonics

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.4									
1652.80	-26.1	V	3.0	37.0	1.0	-62.1	-13.0	-49.1	
2479.20	-21.4	V	3.0	36.4	1.0	-56.9	-13.0	-43.9	
3305.60	-21.4	V	3.0	36.1	1.0	-56.6	-13.0	-43.6	
1652.80	-25.7	H	3.0	37.0	1.0	-61.7	-13.0	-48.7	
2479.20	-22.2	H	3.0	36.4	1.0	-57.6	-13.0	-44.6	
3305.60	-20.6	H	3.0	36.1	1.0	-55.8	-13.0	-42.8	
Mid Ch, 836.6									
1673.20	-25.6	V	3.0	37.0	1.0	-61.6	-13.0	-48.6	
2509.80	-21.3	V	3.0	36.4	1.0	-56.7	-13.0	-43.7	
3346.40	-20.7	V	3.0	36.1	1.0	-55.8	-13.0	-42.8	
1673.20	-25.4	H	3.0	37.0	1.0	-61.4	-13.0	-48.4	
2509.80	-22.8	H	3.0	36.4	1.0	-58.2	-13.0	-45.2	
3346.40	-21.0	H	3.0	36.1	1.0	-56.1	-13.0	-43.1	
High Ch, 846.6									
1693.20	-24.9	V	3.0	37.0	1.0	-60.9	-13.0	-47.9	
2539.80	-21.4	V	3.0	36.4	1.0	-56.8	-13.0	-43.8	
3386.40	-20.4	V	3.0	36.1	1.0	-55.5	-13.0	-42.5	
1693.20	-25.5	H	3.0	37.0	1.0	-61.5	-13.0	-48.5	
2539.80	-23.3	H	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3386.40	-20.7	H	3.0	36.1	1.0	-55.8	-13.0	-42.8	

Band

Band 5

REL99

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

Company:	SONY
Project #:	15U20107
Date:	4/7/2015
Test Engineer:	Jude Semana
Configuration:	EUT + Charger + HS
Location:	Chamber G
Mode:	Rel99 Band 5 Harmonics

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.4									
1652.80	-25.8	V	3.0	37.0	1.0	-61.8	-13.0	-48.8	
2479.20	-20.7	V	3.0	36.4	1.0	-56.1	-13.0	-43.1	
3305.60	-20.4	V	3.0	36.1	1.0	-55.5	-13.0	-42.5	
1652.80	-25.1	H	3.0	37.0	1.0	-61.2	-13.0	-48.2	
2479.20	-22.3	H	3.0	36.4	1.0	-57.7	-13.0	-44.7	
3305.60	-21.2	H	3.0	36.1	1.0	-56.4	-13.0	-43.4	
Mid Ch, 836.6									
1673.20	-25.5	V	3.0	37.0	1.0	-61.5	-13.0	-48.5	
2509.80	-20.3	V	3.0	36.4	1.0	-55.7	-13.0	-42.7	
3346.40	-20.3	V	3.0	36.1	1.0	-55.4	-13.0	-42.4	
1673.20	-25.6	H	3.0	37.0	1.0	-61.5	-13.0	-48.5	
2509.80	-22.9	H	3.0	36.4	1.0	-58.3	-13.0	-45.3	
3346.40	-20.8	H	3.0	36.1	1.0	-55.9	-13.0	-42.9	
High Ch, 846.6									
1693.20	-24.8	V	3.0	37.0	1.0	-60.8	-13.0	-47.8	
2539.80	-21.7	V	3.0	36.4	1.0	-57.1	-13.0	-44.1	
3386.40	-20.7	V	3.0	36.1	1.0	-55.8	-13.0	-42.8	
1693.20	-25.2	H	3.0	37.0	1.0	-61.2	-13.0	-48.2	
2539.80	-23.2	H	3.0	36.4	1.0	-58.6	-13.0	-45.6	
3386.40	-20.5	H	3.0	36.1	1.0	-55.6	-13.0	-42.6	

CDMA

Band BC1

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

Company: Sony
Project #: 15U20107
Date: 4/8/2015
Test Engineer: K.Kedida
Configuration: EUT , AC Adapter, Headset
Location: Chamber A
Mode: CDMA EVDO BC1 Harmonics

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.25									
3702.50	-5.1	V	3.0	35.9	1.0	-39.9	-13.0	-26.9	
5553.75	-15.1	V	3.0	35.5	1.0	-49.5	-13.0	-36.5	
7405.00	-13.7	V	3.0	35.7	1.0	-48.4	-13.0	-35.4	
3702.50	-4.5	H	3.0	35.9	1.0	-39.4	-13.0	-26.4	
5553.75	-15.7	H	3.0	35.5	1.0	-50.2	-13.0	-37.2	
7405.00	-13.7	H	3.0	35.7	1.0	-48.5	-13.0	-35.5	
Mid Ch, 1880									
3760.00	-3.5	V	3.0	35.8	1.0	-38.4	-13.0	-25.4	
5640.00	-15.9	V	3.0	35.5	1.0	-50.4	-13.0	-37.4	
7520.00	-13.8	V	3.0	35.7	1.0	-48.6	-13.0	-35.6	
3760.00	-4.7	H	3.0	35.8	1.0	-39.5	-13.0	-26.5	
5640.00	-15.5	H	3.0	35.5	1.0	-50.0	-13.0	-37.0	
7520.00	-13.0	H	3.0	35.7	1.0	-47.7	-13.0	-34.7	
High Ch, 1908.75									
3817.50	-4.7	V	3.0	35.8	1.0	-39.5	-13.0	-26.5	
5726.25	-15.8	V	3.0	35.5	1.0	-50.3	-13.0	-37.3	
7635.00	-13.9	V	3.0	35.8	1.0	-48.7	-13.0	-35.7	
3817.50	-5.5	H	3.0	35.8	1.0	-40.3	-13.0	-27.3	
5726.25	-15.3	H	3.0	35.5	1.0	-49.8	-13.0	-36.8	
7635.00	-13.1	H	3.0	35.8	1.0	-47.9	-13.0	-34.9	

Band

BC1

1xRTT

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

Company: Sony
Project #: 15U20107
Date: 4/8/2015
Test Engineer: K.Kedida
Configuration: EUT , AC Adapter, Headset
Location: Chamber A
Mode: CDMA 1xRTT BC1 Harmonics

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.25									
3702.50	-5.0	V	3.0	35.9	1.0	-39.8	-13.0	-26.8	
5553.75	-14.7	V	3.0	35.5	1.0	-49.2	-13.0	-36.2	
7405.00	-13.4	V	3.0	35.7	1.0	-48.1	-13.0	-35.1	
3702.50	-4.1	H	3.0	35.9	1.0	-38.9	-13.0	-25.9	
5553.75	-15.0	H	3.0	35.5	1.0	-49.5	-13.0	-36.5	
7405.00	-13.2	H	3.0	35.7	1.0	-48.0	-13.0	-35.0	
Mid Ch, 1880									
3760.00	-3.0	V	3.0	35.8	1.0	-37.8	-13.0	-24.8	
5640.00	-15.2	V	3.0	35.5	1.0	-49.7	-13.0	-36.7	
7520.00	-13.5	V	3.0	35.7	1.0	-48.2	-13.0	-35.2	
3760.00	-4.4	H	3.0	35.8	1.0	-39.2	-13.0	-26.2	
5640.00	-15.2	H	3.0	35.5	1.0	-49.7	-13.0	-36.7	
7520.00	-12.5	H	3.0	35.7	1.0	-47.2	-13.0	-34.2	
High Ch, 1908.75									
3817.50	-5.4	V	3.0	35.8	1.0	-40.1	-13.0	-27.1	
5726.25	-15.0	V	3.0	35.5	1.0	-49.5	-13.0	-36.5	
7635.00	-12.7	V	3.0	35.8	1.0	-47.5	-13.0	-34.5	
3817.50	-5.5	H	3.0	35.8	1.0	-40.3	-13.0	-27.3	
5726.25	-14.6	H	3.0	35.5	1.0	-49.1	-13.0	-36.1	
7635.00	-12.0	H	3.0	35.8	1.0	-46.7	-13.0	-33.7	

Band

BC0

EVDO

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

Company: Sony
Project #: 15U20107
Date: 4/9/2015
Test Engineer: K.Kedida
Configuration: EUT , AC Adapter, Headset
Location: Chamber C
Mode: CDMA EVDO BC0 Harmonics

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7									
1649.40	-20.3	V	3.0	37.4	1.0	-56.7	-13.0	-43.7	
2474.10	-20.4	V	3.0	36.4	1.0	-55.8	-13.0	-42.8	
3298.80	-22.5	V	3.0	35.8	1.0	-57.3	-13.0	-44.3	
1649.40	-18.9	H	3.0	37.4	1.0	-55.3	-13.0	-42.3	
2474.10	-21.5	H	3.0	36.4	1.0	-56.9	-13.0	-43.9	
3298.80	-22.0	H	3.0	35.8	1.0	-56.8	-13.0	-43.8	
Mid Ch, 836.52									
1673.04	-19.9	V	3.0	37.3	1.0	-56.2	-13.0	-43.2	
2509.56	-19.8	V	3.0	36.4	1.0	-55.2	-13.0	-42.2	
3346.08	-22.0	V	3.0	35.8	1.0	-56.8	-13.0	-43.8	
1673.04	-21.6	H	3.0	37.3	1.0	-57.9	-13.0	-44.9	
2509.56	-14.0	H	3.0	36.4	1.0	-49.4	-13.0	-36.4	
3346.08	-21.6	H	3.0	35.8	1.0	-56.4	-13.0	-43.4	
High Ch, 848.31									
1696.62	-18.0	V	3.0	37.3	1.0	-54.3	-13.0	-41.3	
2544.93	-19.5	V	3.0	36.3	1.0	-54.8	-13.0	-41.8	
3393.24	-21.9	V	3.0	35.7	1.0	-56.6	-13.0	-43.6	
1696.62	-20.1	H	3.0	37.3	1.0	-56.4	-13.0	-43.4	
2544.93	-11.3	H	3.0	36.3	1.0	-46.6	-13.0	-33.6	
3393.24	-22.2	H	3.0	35.7	1.0	-56.9	-13.0	-43.9	

Band

BC0

1xRTT

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

Company: Sony
Project #: 15U20107
Date: 4/9/2015
Test Engineer: K.Kedida
Configuration: EUT , AC Adapter, Headset
Location: Chamber C
Mode: CDMA 1xRTT BC0 Harmonics

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7									
1649.40	-21.1	V	3.0	37.4	1.0	-57.5	-13.0	-44.5	
2474.10	-20.1	V	3.0	36.4	1.0	-55.5	-13.0	-42.5	
3298.80	-22.2	V	3.0	35.8	1.0	-57.0	-13.0	-44.0	
1649.40	-19.6	H	3.0	37.4	1.0	-56.0	-13.0	-43.0	
2474.10	-9.4	H	3.0	36.4	1.0	-44.8	-13.0	-31.8	
3298.80	-22.2	H	3.0	35.8	1.0	-57.0	-13.0	-44.0	
Mid Ch, 836.52									
1673.04	-19.0	V	3.0	37.3	1.0	-55.3	-13.0	-42.3	
2509.56	-18.3	V	3.0	36.4	1.0	-53.7	-13.0	-40.7	
3346.08	-22.6	V	3.0	35.8	1.0	-57.4	-13.0	-44.4	
1673.04	-20.3	H	3.0	37.3	1.0	-56.6	-13.0	-43.6	
2509.56	-13.0	H	3.0	36.4	1.0	-48.4	-13.0	-35.4	
3346.08	-22.1	H	3.0	35.8	1.0	-56.9	-13.0	-43.9	
High Ch, 848.31									
1696.62	-17.4	V	3.0	37.3	1.0	-53.7	-13.0	-40.7	
2544.93	-19.0	V	3.0	36.3	1.0	-54.3	-13.0	-41.3	
3393.24	-21.8	V	3.0	35.7	1.0	-56.5	-13.0	-43.5	
1696.62	-18.7	H	3.0	37.3	1.0	-55.0	-13.0	-42.0	
2544.93	-9.3	H	3.0	36.3	1.0	-44.6	-13.0	-31.6	
3393.24	-21.7	H	3.0	35.7	1.0	-56.4	-13.0	-43.4	

LTE Band 2

High Frequency Substitution Measurement
UL Verification Services, Inc.

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Mode: LTE2_20M_16QAM

Chamber	Pre-amplifer	Filter	Limit
5m Chamber G	T343 8449B	Filter 1	Part 24

Band: LTE2, 20MHz, 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860MHz									
3.720	-21.0	V	3.0	35.4	1.0	-55.4	-13.0	-42.4	
5.580	-18.2	V	3.0	34.7	1.0	-52.0	-13.0	-39.0	
7.440	-16.3	V	3.0	34.9	1.0	-50.2	-13.0	-37.2	
3.720	-20.1	H	3.0	35.4	1.0	-54.5	-13.0	-41.5	
5.580	-17.0	H	3.0	34.7	1.0	-50.7	-13.0	-37.7	
7.440	-15.2	H	3.0	34.9	1.0	-49.1	-13.0	-36.1	
Mid Ch, 1880.0MHz									
3.760	-20.1	V	3.0	35.3	1.0	-54.4	-13.0	-41.4	
5.640	-17.5	V	3.0	34.7	1.0	-51.2	-13.0	-38.2	
7.520	-16.8	V	3.0	34.9	1.0	-50.7	-13.0	-37.7	
3.760	-20.2	H	3.0	35.3	1.0	-54.5	-13.0	-41.5	
5.640	-16.6	H	3.0	34.7	1.0	-50.3	-13.0	-37.3	
7.520	-14.9	H	3.0	34.9	1.0	-48.8	-13.0	-35.8	
High Ch, 1900 MHz									
3.800	-20.0	V	3.0	35.3	1.0	-54.3	-13.0	-41.3	
5.700	-17.1	V	3.0	34.7	1.0	-50.8	-13.0	-37.8	
7.600	-15.6	V	3.0	34.9	1.0	-49.5	-13.0	-36.5	
3.800	-18.5	H	3.0	35.3	1.0	-52.8	-13.0	-39.8	
5.700	-16.1	H	3.0	34.7	1.0	-49.8	-13.0	-36.8	
7.600	-15.0	H	3.0	34.9	1.0	-48.9	-13.0	-35.9	

Rev. 03.03.09

High Frequency Substitution Measurement
UL Verification Services, Inc.

Company:	Sony
Project #:	15U20107
Date:	4/4/2015
Test Engineer:	K.Kedida
Configuration:	EUT/AC Charger/ HS
Mode:	LTE2_20M_QPSK

Chamber	Pre-amplifer	Filter	Limit
5m Chamber G	T343 8449B	Filter 1	Part 24

Band: LTE2 20MHz QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1860MHz									
3.720	-20.6	V	3.0	35.4	1.0	-55.0	-13.0	-42.0	
5.580	-17.3	V	3.0	34.7	1.0	-51.0	-13.0	-38.0	
7.440	-16.8	V	3.0	34.9	1.0	-50.7	-13.0	-37.7	
3.720	-20.3	H	3.0	35.4	1.0	-54.7	-13.0	-41.7	
5.580	-16.1	H	3.0	34.7	1.0	-49.8	-13.0	-36.8	
7.440	-14.8	H	3.0	34.9	1.0	-48.8	-13.0	-35.8	
Mid Ch, 1880.0MHz									
3.760	-19.1	V	3.0	35.3	1.0	-53.5	-13.0	-40.5	
5.640	-17.1	V	3.0	34.7	1.0	-50.8	-13.0	-37.8	
7.520	-16.1	V	3.0	34.9	1.0	-50.1	-13.0	-37.1	
3.760	-19.9	H	3.0	35.3	1.0	-54.2	-13.0	-41.2	
5.640	-16.1	H	3.0	34.7	1.0	-49.8	-13.0	-36.8	
7.520	-14.4	H	3.0	34.9	1.0	-48.3	-13.0	-35.3	
High Ch, 1900 MHz									
3.800	-19.4	V	3.0	35.3	1.0	-53.7	-13.0	-40.7	
5.700	-17.3	V	3.0	34.7	1.0	-51.0	-13.0	-38.0	
7.600	-16.2	V	3.0	34.9	1.0	-50.2	-13.0	-37.2	
3.800	-18.5	H	3.0	35.3	1.0	-52.8	-13.0	-39.8	
5.700	-16.5	H	3.0	34.7	1.0	-50.2	-13.0	-37.2	
7.600	-14.0	H	3.0	34.9	1.0	-48.0	-13.0	-35.0	

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

High Frequency Substitution Measurement
UL Verification Services, Inc.

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Mode: LTE2_15M_16QAM

Chamber	Pre-amplifer	Filter	Limit
5m Chamber G	T343 8449B	Filter 1	Part 24

Band: LTE2, 15MHz, 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1857.5MHz									
3.715	-21.2	V	3.0	35.4	1.0	-55.6	-13.0	-42.6	
5.572	-18.3	V	3.0	34.7	1.0	-52.0	-13.0	-39.0	
7.424	-17.2	V	3.0	34.9	1.0	-51.1	-13.0	-38.1	
3.715	-21.0	H	3.0	35.4	1.0	-55.4	-13.0	-42.4	
5.572	-16.8	H	3.0	34.7	1.0	-50.6	-13.0	-37.6	
7.424	-14.9	H	3.0	34.9	1.0	-48.8	-13.0	-35.8	
Mid Ch, 1880.0MHz									
3.760	-21.1	V	3.0	35.3	1.0	-55.4	-13.0	-42.4	
5.640	-18.8	V	3.0	34.7	1.0	-52.6	-13.0	-39.6	
7.520	-17.2	V	3.0	34.9	1.0	-51.1	-13.0	-38.1	
3.760	-21.0	H	3.0	35.3	1.0	-55.3	-13.0	-42.3	
5.640	-16.9	H	3.0	34.7	1.0	-50.6	-13.0	-37.6	
7.520	-14.9	H	3.0	34.9	1.0	-48.8	-13.0	-35.8	
High Ch, 1902.5 MHz									
3.805	-21.1	V	3.0	35.3	1.0	-55.4	-13.0	-42.4	
5.707	-17.7	V	3.0	34.7	1.0	-51.4	-13.0	-38.4	
7.610	-17.1	V	3.0	34.9	1.0	-51.1	-13.0	-38.1	
3.805	-20.5	H	3.0	35.3	1.0	-54.8	-13.0	-41.8	
5.707	-18.4	H	3.0	34.7	1.0	-52.1	-13.0	-39.1	
7.610	-15.2	H	3.0	34.9	1.0	-49.1	-13.0	-36.1	

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

High Frequency Substitution Measurement
UL Verification Services, Inc.

Company:	Sony
Project #:	15U20107
Date:	4/4/2015
Test Engineer:	K.Kedida
Configuration:	EUT/AC Charger/ HS
Mode:	LTE2_15M_QPSK

Chamber	Pre-amplifer	Filter	Limit
5m Chamber G	T343 8449B	Filter 1	Part 24

Band: LTE2 15MHz QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1857.5MHz									
3.715	-20.9	V	3.0	35.4	1.0	-55.3	-13.0	-42.3	
5.572	-18.2	V	3.0	34.7	1.0	-52.0	-13.0	-39.0	
7.424	-16.8	V	3.0	34.9	1.0	-50.7	-13.0	-37.7	
3.715	-20.9	H	3.0	35.4	1.0	-55.2	-13.0	-42.2	
5.572	-17.4	H	3.0	34.7	1.0	-51.1	-13.0	-38.1	
7.424	-15.0	H	3.0	34.9	1.0	-48.9	-13.0	-35.9	
Mid Ch, 1880.0MHz									
3.760	-21.1	V	3.0	35.3	1.0	-55.4	-13.0	-42.4	
5.640	-18.2	V	3.0	34.7	1.0	-51.9	-13.0	-38.9	
7.520	-16.8	V	3.0	34.9	1.0	-50.7	-13.0	-37.7	
3.760	-20.8	H	3.0	35.3	1.0	-55.2	-13.0	-42.2	
5.640	-17.1	H	3.0	34.7	1.0	-50.8	-13.0	-37.8	
7.520	-14.8	H	3.0	34.9	1.0	-48.7	-13.0	-35.7	
High Ch, 1902.5 MHz									
3.805	-20.9	V	3.0	35.3	1.0	-55.2	-13.0	-42.2	
5.707	-17.0	V	3.0	34.7	1.0	-50.8	-13.0	-37.8	
7.610	-15.9	V	3.0	34.9	1.0	-49.9	-13.0	-36.9	
3.805	-20.2	H	3.0	35.3	1.0	-54.5	-13.0	-41.5	
5.707	-17.0	H	3.0	34.7	1.0	-50.7	-13.0	-37.7	
7.610	-15.3	H	3.0	34.9	1.0	-49.3	-13.0	-36.3	

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

High Frequency Substitution Measurement
UL Verification Services, Inc.

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Mode: LTE2_10M_16QAM

Chamber	Pre-amplifer	Filter	Limit
5m Chamber G	T343 8449B	Filter 1	Part 24

Band: LTE2 10MHz 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1855.0MHz									
3.710	-20.1	V	3.0	35.4	1.0	-54.5	-13.0	-41.5	
5.565	-17.5	V	3.0	34.7	1.0	-51.2	-13.0	-38.2	
7.420	-16.1	V	3.0	34.9	1.0	-50.1	-13.0	-37.1	
3.710	-21.6	H	3.0	35.4	1.0	-56.0	-13.0	-43.0	
5.565	-17.8	H	3.0	34.7	1.0	-51.5	-13.0	-38.5	
7.420	-15.0	H	3.0	34.9	1.0	-48.9	-13.0	-35.9	
Mid Ch, 1880.0MHz									
3.760	-20.9	V	3.0	35.3	1.0	-55.3	-13.0	-42.3	
5.640	-17.1	V	3.0	34.7	1.0	-50.8	-13.0	-37.8	
7.520	-16.1	V	3.0	34.9	1.0	-50.0	-13.0	-37.0	
3.760	-20.7	H	3.0	35.3	1.0	-55.1	-13.0	-42.1	
5.640	-17.3	H	3.0	34.7	1.0	-51.0	-13.0	-38.0	
7.520	-15.0	H	3.0	34.9	1.0	-48.9	-13.0	-35.9	
High Ch, 1905 MHz									
3.810	-20.9	V	3.0	35.3	1.0	-55.2	-13.0	-42.2	
5.715	-16.6	V	3.0	34.7	1.0	-50.4	-13.0	-37.4	
7.620	-15.9	V	3.0	34.9	1.0	-49.9	-13.0	-36.9	
3.810	-20.7	H	3.0	35.3	1.0	-55.0	-13.0	-42.0	
5.715	-17.0	H	3.0	34.7	1.0	-50.7	-13.0	-37.7	
7.620	-15.3	H	3.0	34.9	1.0	-49.3	-13.0	-36.3	

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

High Frequency Substitution Measurement
UL Verification Services, Inc.

Company:	Sony
Project #:	15U20107
Date:	4/4/2015
Test Engineer:	K.Kedida
Configuration:	EUT/AC Charger/ HS
Mode:	LTE2_10M_QPSK

Chamber	Pre-amplifer	Filter	Limit
5m Chamber G	T343 8449B	Filter 1	Part 24

Band: LTE2 10MHz QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1855.0MHz									
3.710	-20.3	V	3.0	35.4	1.0	-54.7	-13.0	-41.7	
5.565	-17.1	V	3.0	34.7	1.0	-50.8	-13.0	-37.8	
7.420	-16.0	V	3.0	34.9	1.0	-49.9	-13.0	-36.9	
3.710	-20.2	H	3.0	35.4	1.0	-54.6	-13.0	-41.6	
5.565	-16.0	H	3.0	34.7	1.0	-49.8	-13.0	-36.8	
7.420	-13.5	H	3.0	34.9	1.0	-47.4	-13.0	-34.4	
Mid Ch, 1880.0MHz									
3.760	-20.6	V	3.0	35.3	1.0	-55.0	-13.0	-42.0	
5.640	-17.5	V	3.0	34.7	1.0	-51.3	-13.0	-38.3	
7.520	-15.6	V	3.0	34.9	1.0	-49.5	-13.0	-36.5	
3.760	-20.3	H	3.0	35.3	1.0	-54.6	-13.0	-41.6	
5.640	-16.4	H	3.0	34.7	1.0	-50.1	-13.0	-37.1	
7.520	-14.7	H	3.0	34.9	1.0	-48.6	-13.0	-35.6	
High Ch, 1905 MHz									
3.810	-20.2	V	3.0	35.3	1.0	-54.5	-13.0	-41.5	
5.715	-16.4	V	3.0	34.7	1.0	-50.2	-13.0	-37.2	
7.620	-14.8	V	3.0	34.9	1.0	-48.8	-13.0	-35.8	
3.810	-20.0	H	3.0	35.3	1.0	-54.3	-13.0	-41.3	
5.715	-16.3	H	3.0	34.7	1.0	-50.0	-13.0	-37.0	
7.620	-14.6	H	3.0	34.9	1.0	-48.6	-13.0	-35.6	

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

High Frequency Substitution Measurement
UL Verification Services, Inc.

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Mode: LTE2_5M_16QAM

Chamber	Pre-amplifer	Filter	Limit
5m Chamber G	T343 8449B	Filter 1	Part 24

Band: LTE2 5MHz 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1852.5MHz									
3.705	-20.9	V	3.0	35.4	1.0	-55.3	-13.0	-42.3	
5.557	-17.6	V	3.0	34.7	1.0	-51.3	-13.0	-38.3	
7.410	-16.2	V	3.0	34.9	1.0	-50.1	-13.0	-37.1	
3.705	-21.0	H	3.0	35.4	1.0	-55.4	-13.0	-42.4	
5.557	-15.5	H	3.0	34.7	1.0	-49.2	-13.0	-36.2	
7.410	-14.4	H	3.0	34.9	1.0	-48.4	-13.0	-35.4	
Mid Ch, 1880.0MHz									
3.760	-20.8	V	3.0	35.3	1.0	-55.2	-13.0	-42.2	
5.640	-16.7	V	3.0	34.7	1.0	-50.5	-13.0	-37.5	
7.520	-16.0	V	3.0	34.9	1.0	-50.0	-13.0	-37.0	
3.760	-19.9	H	3.0	35.3	1.0	-54.2	-13.0	-41.2	
5.640	-16.1	H	3.0	34.7	1.0	-49.9	-13.0	-36.9	
7.520	-14.0	H	3.0	34.9	1.0	-48.0	-13.0	-35.0	
High Ch, 1907.5 MHz									
3.815	-19.6	V	3.0	35.3	1.0	-53.9	-13.0	-40.9	
5.722	-16.8	V	3.0	34.7	1.0	-50.5	-13.0	-37.5	
7.630	-15.5	V	3.0	34.9	1.0	-49.5	-13.0	-36.5	
3.815	-19.5	H	3.0	35.3	1.0	-53.8	-13.0	-40.8	
5.722	-17.2	H	3.0	34.7	1.0	-50.9	-13.0	-37.9	
7.630	-13.8	H	3.0	34.9	1.0	-47.7	-13.0	-34.7	

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

High Frequency Substitution Measurement
UL Verification Services, Inc.

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Mode: LTE2_5M_QPSK

Chamber	Pre-amplifer	Filter	Limit
5m Chamber G	T343 8449B	Filter 1	Part 24

Band
LTE2
5MHz
QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1852.5MHz									
3.705	-20.4	V	3.0	35.4	1.0	-54.8	-13.0	-41.8	
5.557	-17.2	V	3.0	34.7	1.0	-51.0	-13.0	-38.0	
7.410	-16.2	V	3.0	34.9	1.0	-50.1	-13.0	-37.1	
3.705	-20.6	H	3.0	35.4	1.0	-54.9	-13.0	-41.9	
5.557	-15.3	H	3.0	34.7	1.0	-49.0	-13.0	-36.0	
7.410	-14.9	H	3.0	34.9	1.0	-48.8	-13.0	-35.8	
Mid Ch, 1880.0MHz									
3.760	-20.3	V	3.0	35.3	1.0	-54.6	-13.0	-41.6	
5.640	-15.9	V	3.0	34.7	1.0	-49.7	-13.0	-36.7	
7.520	-16.3	V	3.0	34.9	1.0	-50.3	-13.0	-37.3	
3.760	-20.2	H	3.0	35.3	1.0	-54.6	-13.0	-41.6	
5.640	-15.3	H	3.0	34.7	1.0	-49.0	-13.0	-36.0	
7.520	-14.2	H	3.0	34.9	1.0	-48.2	-13.0	-35.2	
High Ch, 1907.5 MHz									
3.815	-20.2	V	3.0	35.3	1.0	-54.5	-13.0	-41.5	
5.722	-16.5	V	3.0	34.7	1.0	-50.2	-13.0	-37.2	
7.630	-15.8	V	3.0	34.9	1.0	-49.8	-13.0	-36.8	
3.815	-19.2	H	3.0	35.3	1.0	-53.5	-13.0	-40.5	
5.722	-16.0	H	3.0	34.7	1.0	-49.8	-13.0	-36.8	
7.630	-14.3	H	3.0	34.9	1.0	-48.2	-13.0	-35.2	

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

High Frequency Substitution Measurement
UL Verification Services, Inc.

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Mode: LTE2_3M_HARM_16QAM

Chamber	Pre-amplifer	Filter	Limit
5m Chamber G	T343 8449B	Filter 1	Part 24

Band: LTE2 3MHz 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.5MHz									
3.703	-20.1	V	3.0	35.4	1.0	-54.5	-13.0	-41.5	
5.554	-16.9	V	3.0	34.7	1.0	-50.7	-13.0	-37.7	
7.406	-15.6	V	3.0	34.9	1.0	-49.5	-13.0	-36.5	
3.703	-19.8	H	3.0	35.4	1.0	-54.2	-13.0	-41.2	
5.554	-14.0	H	3.0	34.7	1.0	-47.7	-13.0	-34.7	
7.406	-14.2	H	3.0	34.9	1.0	-48.1	-13.0	-35.1	
Mid Ch, 1880.0MHz									
3.760	-20.8	V	3.0	35.3	1.0	-55.1	-13.0	-42.1	
5.640	-16.0	V	3.0	34.7	1.0	-49.7	-13.0	-36.7	
7.520	-16.4	V	3.0	34.9	1.0	-50.3	-13.0	-37.3	
3.760	-20.8	H	3.0	35.3	1.0	-55.1	-13.0	-42.1	
5.640	-15.3	H	3.0	34.7	1.0	-49.1	-13.0	-36.1	
7.520	-14.3	H	3.0	34.9	1.0	-48.2	-13.0	-35.2	
High Ch, 1908.5 MHz									
3.817	-20.3	V	3.0	35.3	1.0	-54.5	-13.0	-41.5	
5.725	-16.4	V	3.0	34.7	1.0	-50.1	-13.0	-37.1	
7.634	-15.4	V	3.0	34.9	1.0	-49.3	-13.0	-36.3	
3.817	-20.3	H	3.0	35.3	1.0	-54.6	-13.0	-41.6	
5.725	-16.9	H	3.0	34.7	1.0	-50.6	-13.0	-37.6	
7.634	-14.4	H	3.0	34.9	1.0	-48.4	-13.0	-35.4	

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

High Frequency Substitution Measurement
UL Verification Services, Inc.

Company:	Sony
Project #:	15U20107
Date:	4/4/2015
Test Engineer:	K.Kedida
Configuration:	EUT/AC Charger/ HS
Mode:	LTE2_3M_HARM_QPSK

Chamber	Pre-amplifer	Filter	Limit
5m Chamber G	T343 8449B	Filter 1	Part 24

Band: LTE2 3MHz QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.5MHz									
3.703	-20.3	V	3.0	35.4	1.0	-54.7	-13.0	-41.7	
5.554	-16.6	V	3.0	34.7	1.0	-50.3	-13.0	-37.3	
7.406	-15.9	V	3.0	34.9	1.0	-49.8	-13.0	-36.8	
3.703	-18.9	H	3.0	35.4	1.0	-53.3	-13.0	-40.3	
5.554	-13.4	H	3.0	34.7	1.0	-47.2	-13.0	-34.2	
7.406	-14.3	H	3.0	34.9	1.0	-48.2	-13.0	-35.2	
Mid Ch, 1880.0MHz									
3.760	-20.4	V	3.0	35.3	1.0	-54.7	-13.0	-41.7	
5.640	-16.2	V	3.0	34.7	1.0	-50.0	-13.0	-37.0	
7.520	-16.2	V	3.0	34.9	1.0	-50.1	-13.0	-37.1	
3.760	-20.0	H	3.0	35.3	1.0	-54.3	-13.0	-41.3	
5.640	-15.5	H	3.0	34.7	1.0	-49.3	-13.0	-36.3	
7.520	-14.5	H	3.0	34.9	1.0	-48.4	-13.0	-35.4	
High Ch, 1908.5 MHz									
3.817	-20.3	V	3.0	35.3	1.0	-54.6	-13.0	-41.6	
5.725	-15.8	V	3.0	34.7	1.0	-49.5	-13.0	-36.5	
7.634	-16.0	V	3.0	34.9	1.0	-49.9	-13.0	-36.9	
3.817	-20.1	H	3.0	35.3	1.0	-54.4	-13.0	-41.4	
5.725	-16.4	H	3.0	34.7	1.0	-50.1	-13.0	-37.1	
7.634	-13.7	H	3.0	34.9	1.0	-47.7	-13.0	-34.7	

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

High Frequency Substitution Measurement
UL Verification Services, Inc.

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Mode: LTE2_1.4M_HARM_16QAM

Chamber	Pre-amplifer	Filter	Limit
5m Chamber G	T343 8449B	Filter 1	Part 24

Band: LTE2, 1.4MHz, 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.7MHz									
3.702	-20.3	V	3.0	35.4	1.0	-54.7	-13.0	-41.7	
5.553	-15.6	V	3.0	34.7	1.0	-49.3	-13.0	-36.3	
7.404	-15.0	V	3.0	34.9	1.0	-48.9	-13.0	-35.9	
3.702	-19.8	H	3.0	35.4	1.0	-54.2	-13.0	-41.2	
5.553	-14.2	H	3.0	34.7	1.0	-48.0	-13.0	-35.0	
7.404	-14.6	H	3.0	34.9	1.0	-48.5	-13.0	-35.5	
Mid Ch, 1880.0MHz									
3.760	-18.9	V	3.0	35.3	1.0	-53.2	-13.0	-40.2	
5.640	-13.5	V	3.0	34.7	1.0	-47.2	-13.0	-34.2	
7.520	-16.1	V	3.0	34.9	1.0	-50.0	-13.0	-37.0	
3.760	-19.7	H	3.0	35.3	1.0	-54.0	-13.0	-41.0	
5.640	-12.1	H	3.0	34.7	1.0	-45.8	-13.0	-32.8	
7.520	-14.4	H	3.0	34.9	1.0	-48.3	-13.0	-35.3	
High Ch, 1909.3 MHz									
3.816	-19.6	V	3.0	35.3	1.0	-53.9	-13.0	-40.9	
5.724	-13.9	V	3.0	34.7	1.0	-47.6	-13.0	-34.6	
7.632	-15.9	V	3.0	34.9	1.0	-49.8	-13.0	-36.8	
3.816	-20.6	H	3.0	35.3	1.0	-54.9	-13.0	-41.9	
5.724	-12.9	H	3.0	34.7	1.0	-46.6	-13.0	-33.6	
7.632	-14.3	H	3.0	34.9	1.0	-48.2	-13.0	-35.2	

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

High Frequency Substitution Measurement
UL Verification Services, Inc.

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Mode: LTE2_1.4M_HARM_QPSK

Chamber	Pre-amplifer	Filter	Limit
5m Chamber G	T343 8449B	Filter 1	Part 24

Band: LTE2 1.4MHz QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.7MHz									
3.702	-20.0	V	3.0	35.4	1.0	-54.4	-13.0	-41.4	
5.553	-15.0	V	3.0	34.7	1.0	-48.7	-13.0	-35.7	
7.404	-15.4	V	3.0	34.9	1.0	-49.3	-13.0	-36.3	
3.702	-19.3	H	3.0	35.4	1.0	-53.7	-13.0	-40.7	
5.553	-13.1	H	3.0	34.7	1.0	-46.8	-13.0	-33.8	
7.404	-14.3	H	3.0	34.9	1.0	-48.2	-13.0	-35.2	
Mid Ch, 1880.0MHz									
3.760	-19.0	V	3.0	35.3	1.0	-53.4	-13.0	-40.4	
5.640	-13.1	V	3.0	34.7	1.0	-46.8	-13.0	-33.8	
7.520	-16.4	V	3.0	34.9	1.0	-50.3	-13.0	-37.3	
3.760	-19.1	H	3.0	35.3	1.0	-53.5	-13.0	-40.5	
5.640	-12.0	H	3.0	34.7	1.0	-45.8	-13.0	-32.8	
7.520	-14.7	H	3.0	34.9	1.0	-48.7	-13.0	-35.7	
High Ch, 1909.3 MHz									
3.816	-19.2	V	3.0	35.3	1.0	-53.5	-13.0	-40.5	
5.724	-13.9	V	3.0	34.7	1.0	-47.7	-13.0	-34.7	
7.632	-15.6	V	3.0	34.9	1.0	-49.5	-13.0	-36.5	
3.816	-19.8	H	3.0	35.3	1.0	-54.0	-13.0	-41.0	
5.724	-12.5	H	3.0	34.7	1.0	-46.2	-13.0	-33.2	
7.632	-13.9	H	3.0	34.9	1.0	-47.9	-13.0	-34.9	

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

LTE Band 4

Band
LTE4
20MHz
16QAM

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber G
Mode: LTE_16QAM Band 4 Harmonics, 20MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1720									
3440.00	-20.3	V	3.0	36.0	1.0	-55.3	-13.0	-42.3	
5160.00	-17.5	V	3.0	35.4	1.0	-52.0	-13.0	-39.0	
6880.00	-16.2	V	3.0	35.7	1.0	-50.9	-13.0	-37.9	
3440.00	-20.7	H	3.0	36.0	1.0	-55.8	-13.0	-42.8	
5160.00	-16.5	H	3.0	35.4	1.0	-51.0	-13.0	-38.0	
6880.00	-15.4	H	3.0	35.7	1.0	-50.1	-13.0	-37.1	
Mid Ch, 1732.5									
3465.00	-20.6	V	3.0	36.0	1.0	-55.6	-13.0	-42.6	
5197.50	-16.9	V	3.0	35.4	1.0	-51.3	-13.0	-38.3	
6930.00	-16.2	V	3.0	35.7	1.0	-50.8	-13.0	-37.8	
3465.00	-20.5	H	3.0	36.0	1.0	-55.6	-13.0	-42.6	
5197.50	-16.3	H	3.0	35.4	1.0	-50.7	-13.0	-37.7	
6930.00	-15.0	H	3.0	35.7	1.0	-49.7	-13.0	-36.7	
High Ch, 1745									
3490.00	-20.5	V	3.0	36.0	1.0	-55.5	-13.0	-42.5	
5235.00	-16.9	V	3.0	35.4	1.0	-51.3	-13.0	-38.3	
6980.00	-16.5	V	3.0	35.7	1.0	-51.2	-13.0	-38.2	
3490.00	-21.6	H	3.0	36.0	1.0	-56.6	-13.0	-43.6	
5235.00	-17.5	H	3.0	35.4	1.0	-51.9	-13.0	-38.9	
6980.00	-14.6	H	3.0	35.7	1.0	-49.3	-13.0	-36.3	

Band

LTE4

20MHz

QPSK

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber G
Mode: LTE_QPSK Band 4 Harmonics, 20MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1720									
3440.00	-20.4	V	3.0	36.0	1.0	-55.4	-13.0	-42.4	
5160.00	-16.6	V	3.0	35.4	1.0	-51.1	-13.0	-38.1	
6880.00	-16.4	V	3.0	35.7	1.0	-51.1	-13.0	-38.1	
3440.00	-20.0	H	3.0	36.0	1.0	-55.0	-13.0	-42.0	
5160.00	-16.4	H	3.0	35.4	1.0	-50.8	-13.0	-37.8	
6880.00	-15.4	H	3.0	35.7	1.0	-50.1	-13.0	-37.1	
Mid Ch, 1732.5									
3465.00	-19.6	V	3.0	36.0	1.0	-54.6	-13.0	-41.6	
5197.50	-17.0	V	3.0	35.4	1.0	-51.4	-13.0	-38.4	
6930.00	-16.3	V	3.0	35.7	1.0	-50.9	-13.0	-37.9	
3465.00	-19.7	H	3.0	36.0	1.0	-54.7	-13.0	-41.7	
5197.50	-15.8	H	3.0	35.4	1.0	-50.2	-13.0	-37.2	
6930.00	-15.0	H	3.0	35.7	1.0	-49.6	-13.0	-36.6	
High Ch, 1745									
3490.00	-20.4	V	3.0	36.0	1.0	-55.4	-13.0	-42.4	
5235.00	-16.8	V	3.0	35.4	1.0	-51.2	-13.0	-38.2	
6980.00	-16.6	V	3.0	35.7	1.0	-51.3	-13.0	-38.3	
3490.00	-20.5	H	3.0	36.0	1.0	-55.5	-13.0	-42.5	
5235.00	-17.1	H	3.0	35.4	1.0	-51.5	-13.0	-38.5	
6980.00	-14.5	H	3.0	35.7	1.0	-49.2	-13.0	-36.2	

Band
LTE4
15MHz
16QAM

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber G
Mode: LTE_16QAM Band 4 Harmonics, 15MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1717.5									
3435.00	-20.6	V	3.0	36.1	1.0	-55.7	-13.0	-42.7	
5152.50	-16.8	V	3.0	35.4	1.0	-51.2	-13.0	-38.2	
6870.00	-17.1	V	3.0	35.7	1.0	-51.7	-13.0	-38.7	
3435.00	-21.0	H	3.0	36.1	1.0	-56.0	-13.0	-43.0	
5152.50	-16.8	H	3.0	35.4	1.0	-51.3	-13.0	-38.3	
6870.00	-15.2	H	3.0	35.7	1.0	-49.9	-13.0	-36.9	
Mid Ch, 1732.5									
3465.00	-20.6	V	3.0	36.0	1.0	-55.6	-13.0	-42.6	
5197.50	-17.5	V	3.0	35.4	1.0	-52.0	-13.0	-39.0	
6930.00	-17.3	V	3.0	35.7	1.0	-51.9	-13.0	-38.9	
3465.00	-21.2	H	3.0	36.0	1.0	-56.2	-13.0	-43.2	
5197.50	-17.2	H	3.0	35.4	1.0	-51.6	-13.0	-38.6	
6930.00	-14.6	H	3.0	35.7	1.0	-49.3	-13.0	-36.3	
High Ch, 1747.5									
3495.00	-20.9	V	3.0	36.0	1.0	-55.9	-13.0	-42.9	
5242.50	-17.5	V	3.0	35.4	1.0	-52.0	-13.0	-39.0	
6990.00	-16.0	V	3.0	35.7	1.0	-50.7	-13.0	-37.7	
3495.00	-20.5	H	3.0	36.0	1.0	-55.5	-13.0	-42.5	
5242.50	-16.2	H	3.0	35.4	1.0	-50.7	-13.0	-37.7	
6990.00	-15.0	H	3.0	35.7	1.0	-49.6	-13.0	-36.6	

Band
LTE4
15MHz
QPSK

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber G
Mode: LTE_QPSK Band 4 Harmonics, 15MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1717.5									
3435.00	-20.4	V	3.0	36.1	1.0	-55.4	-13.0	-42.4	
5152.50	-16.5	V	3.0	35.4	1.0	-51.0	-13.0	-38.0	
6870.00	-16.8	V	3.0	35.7	1.0	-51.4	-13.0	-38.4	
3435.00	-20.2	H	3.0	36.1	1.0	-55.2	-13.0	-42.2	
5152.50	-16.4	H	3.0	35.4	1.0	-50.8	-13.0	-37.8	
6870.00	-14.9	H	3.0	35.7	1.0	-49.5	-13.0	-36.5	
Mid Ch, 1732.5									
3465.00	-20.2	V	3.0	36.0	1.0	-55.2	-13.0	-42.2	
5197.50	-16.9	V	3.0	35.4	1.0	-51.3	-13.0	-38.3	
6930.00	-16.7	V	3.0	35.7	1.0	-51.4	-13.0	-38.4	
3465.00	-19.6	H	3.0	36.0	1.0	-54.7	-13.0	-41.7	
5197.50	-16.1	H	3.0	35.4	1.0	-50.6	-13.0	-37.6	
6930.00	-14.2	H	3.0	35.7	1.0	-48.8	-13.0	-35.8	
High Ch, 1747.5									
3495.00	-20.4	V	3.0	36.0	1.0	-55.4	-13.0	-42.4	
5242.50	-17.1	V	3.0	35.4	1.0	-51.5	-13.0	-38.5	
6990.00	-16.1	V	3.0	35.7	1.0	-50.8	-13.0	-37.8	
3495.00	-20.2	H	3.0	36.0	1.0	-55.3	-13.0	-42.3	
5242.50	-16.2	H	3.0	35.4	1.0	-50.6	-13.0	-37.6	
6990.00	-14.6	H	3.0	35.7	1.0	-49.3	-13.0	-36.3	

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Configuration: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber G
Mode: LTE_16QAM Band 4 Harmonics, 10MHz Bandwidth

Band
LTE4
10MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1710.7									
3430.00	-20.7	V	3.0	36.1	1.0	-55.7	-13.0	-42.7	
5145.00	-16.6	V	3.0	35.4	1.0	-51.0	-13.0	-38.0	
6860.00	-16.5	V	3.0	35.7	1.0	-51.2	-13.0	-38.2	
3430.00	-21.1	H	3.0	36.1	1.0	-56.1	-13.0	-43.1	
5145.00	-17.1	H	3.0	35.4	1.0	-51.6	-13.0	-38.6	
6860.00	-15.3	H	3.0	35.7	1.0	-50.0	-13.0	-37.0	
Mid Ch, 1732.5									
3465.00	-19.6	V	3.0	36.0	1.0	-54.6	-13.0	-41.6	
5197.50	-17.0	V	3.0	35.4	1.0	-51.4	-13.0	-38.4	
6930.00	-16.5	V	3.0	35.7	1.0	-51.2	-13.0	-38.2	
3465.00	-21.1	H	3.0	36.0	1.0	-56.2	-13.0	-43.2	
5197.50	-17.0	H	3.0	35.4	1.0	-51.4	-13.0	-38.4	
6930.00	-13.3	H	3.0	35.7	1.0	-48.0	-13.0	-35.0	
High Ch, 1750									
3500.00	-20.5	V	3.0	36.0	1.0	-55.5	-13.0	-42.5	
5250.00	-17.5	V	3.0	35.4	1.0	-51.9	-13.0	-38.9	
7000.00	-16.3	V	3.0	35.7	1.0	-51.0	-13.0	-38.0	
3500.00	-20.2	H	3.0	36.0	1.0	-55.2	-13.0	-42.2	
5250.00	-17.5	H	3.0	35.4	1.0	-51.9	-13.0	-38.9	
7000.00	-14.9	H	3.0	35.7	1.0	-49.6	-13.0	-36.6	

Band

LTE4

10MHz

QPSK

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Configuration: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber G
Mode: LTE_QPSK Band 4 Harmonics, 10MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1715									
3430.00	-20.2	V	3.0	36.1	1.0	-55.2	-13.0	-42.2	
5145.00	-16.8	V	3.0	35.4	1.0	-51.2	-13.0	-38.2	
6860.00	-16.8	V	3.0	35.7	1.0	-51.4	-13.0	-38.4	
3430.00	-20.8	H	3.0	36.1	1.0	-55.8	-13.0	-42.8	
5145.00	-16.5	H	3.0	35.4	1.0	-50.9	-13.0	-37.9	
6860.00	-14.4	H	3.0	35.7	1.0	-49.0	-13.0	-36.0	
Mid Ch, 1732.5									
3465.00	-18.8	V	3.0	36.0	1.0	-53.8	-13.0	-40.8	
5197.50	-16.6	V	3.0	35.4	1.0	-51.1	-13.0	-38.1	
6930.00	-16.2	V	3.0	35.7	1.0	-50.9	-13.0	-37.9	
3465.00	-19.6	H	3.0	36.0	1.0	-54.7	-13.0	-41.7	
5197.50	-16.1	H	3.0	35.4	1.0	-50.5	-13.0	-37.5	
6930.00	-14.0	H	3.0	35.7	1.0	-48.6	-13.0	-35.6	
High Ch, 1750									
3500.00	-20.1	V	3.0	36.0	1.0	-55.1	-13.0	-42.1	
5250.00	-17.0	V	3.0	35.4	1.0	-51.5	-13.0	-38.5	
7000.00	-16.3	V	3.0	35.7	1.0	-51.0	-13.0	-38.0	
3500.00	-19.9	H	3.0	36.0	1.0	-54.9	-13.0	-41.9	
5250.00	-16.1	H	3.0	35.4	1.0	-50.5	-13.0	-37.5	
7000.00	-14.8	H	3.0	35.7	1.0	-49.4	-13.0	-36.4	

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber G
Mode: LTE_16QAM Band 4 Harmonics, 5MHz Bandwidth

Band
LTE4
5MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1712.5									
3425.00	109.3	V	3.0	36.1	1.0	74.3	-13.0	87.3	
5137.50	-17.5	V	3.0	35.4	1.0	-51.9	-13.0	-38.9	
6850.00	-16.3	V	3.0	35.7	1.0	-51.0	-13.0	-38.0	
3425.00	-20.7	H	3.0	36.1	1.0	-55.8	-13.0	-42.8	
5137.50	-17.1	H	3.0	35.4	1.0	-51.5	-13.0	-38.5	
6850.00	-14.8	H	3.0	35.7	1.0	-49.5	-13.0	-36.5	
Mid Ch, 1732.5									
3465.00	-18.9	V	3.0	36.0	1.0	-54.0	-13.0	-41.0	
5197.50	-16.6	V	3.0	35.4	1.0	-51.0	-13.0	-38.0	
6930.00	-17.2	V	3.0	35.7	1.0	-51.9	-13.0	-38.9	
3465.00	-19.6	H	3.0	36.0	1.0	-54.6	-13.0	-41.6	
5197.50	-15.9	H	3.0	35.4	1.0	-50.3	-13.0	-37.3	
6930.00	-15.1	H	3.0	35.7	1.0	-49.7	-13.0	-36.7	
High Ch, 1752.5									
3505.00	-20.7	V	3.0	36.0	1.0	-55.7	-13.0	-42.7	
5257.50	-16.9	V	3.0	35.4	1.0	-51.4	-13.0	-38.4	
7010.00	-16.8	V	3.0	35.7	1.0	-51.5	-13.0	-38.5	
3505.00	-20.8	H	3.0	36.0	1.0	-55.8	-13.0	-42.8	
5257.50	-16.3	H	3.0	35.4	1.0	-50.7	-13.0	-37.7	
7010.00	-14.7	H	3.0	35.7	1.0	-49.3	-13.0	-36.3	

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber G
Mode: LTE_QPSK Band 4 Harmonics, 5MHz Bandwidth

Band
LTE4
5MHz
QPSK

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1712.5									
3425.00	-20.2	V	3.0	36.1	1.0	-55.3	-13.0	-42.3	
5137.50	-16.5	V	3.0	35.4	1.0	-51.0	-13.0	-38.0	
6850.00	-16.2	V	3.0	35.7	1.0	-50.9	-13.0	-37.9	
3425.00	-19.8	H	3.0	36.1	1.0	-54.9	-13.0	-41.9	
5137.50	-16.5	H	3.0	35.4	1.0	-51.0	-13.0	-38.0	
6850.00	-14.1	H	3.0	35.7	1.0	-48.8	-13.0	-35.8	
Mid Ch, 1732.5									
3465.00	-19.1	V	3.0	36.0	1.0	-54.2	-13.0	-41.2	
5197.50	-15.7	V	3.0	35.4	1.0	-50.1	-13.0	-37.1	
6930.00	-16.9	V	3.0	35.7	1.0	-51.6	-13.0	-38.6	
3465.00	-18.6	H	3.0	36.0	1.0	-53.6	-13.0	-40.6	
5197.50	-15.3	H	3.0	35.4	1.0	-49.8	-13.0	-36.8	
6930.00	-14.8	H	3.0	35.7	1.0	-49.4	-13.0	-36.4	
High Ch, 1752.5									
3505.00	-20.1	V	3.0	36.0	1.0	-55.1	-13.0	-42.1	
5257.50	-16.3	V	3.0	35.4	1.0	-50.8	-13.0	-37.8	
7010.00	-16.3	V	3.0	35.7	1.0	-50.9	-13.0	-37.9	
3505.00	-19.7	H	3.0	36.0	1.0	-54.7	-13.0	-41.7	
5257.50	-16.2	H	3.0	35.4	1.0	-50.6	-13.0	-37.6	
7010.00	-14.2	H	3.0	35.7	1.0	-48.8	-13.0	-35.8	

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber G
Mode: LTE_16QAM Band 4 Harmonics, 3MHz Bandwidth

Band
LTE4
3MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1711.5									
3423.00	-21.2	V	3.0	36.1	1.0	-56.2	-13.0	-43.2	
5134.50	-17.1	V	3.0	35.4	1.0	-51.5	-13.0	-38.5	
6846.00	-16.0	V	3.0	35.7	1.0	-50.7	-13.0	-37.7	
3423.00	-20.4	H	3.0	36.1	1.0	-55.4	-13.0	-42.4	
5134.50	-14.0	H	3.0	35.4	1.0	-48.4	-13.0	-35.4	
6846.00	-14.6	H	3.0	35.7	1.0	-49.3	-13.0	-36.3	
Mid Ch, 1732.5									
3465.00	-19.0	V	3.0	36.0	1.0	-54.1	-13.0	-41.1	
5197.50	-16.6	V	3.0	35.4	1.0	-51.0	-13.0	-38.0	
6930.00	-16.1	V	3.0	35.7	1.0	-50.8	-13.0	-37.8	
3465.00	-23.2	H	3.0	36.0	1.0	-58.2	-13.0	-45.2	
5197.50	-15.7	H	3.0	35.4	1.0	-50.1	-13.0	-37.1	
6930.00	-14.6	H	3.0	35.7	1.0	-49.3	-13.0	-36.3	
High Ch, 1753.5									
3507.00	-20.9	V	3.0	36.0	1.0	-55.9	-13.0	-42.9	
5260.50	-16.6	V	3.0	35.4	1.0	-51.0	-13.0	-38.0	
7014.00	-16.0	V	3.0	35.7	1.0	-50.7	-13.0	-37.7	
3507.00	-21.2	H	3.0	36.0	1.0	-56.2	-13.0	-43.2	
5260.50	-16.1	H	3.0	35.4	1.0	-50.5	-13.0	-37.5	
7014.00	-13.6	H	3.0	35.7	1.0	-48.3	-13.0	-35.3	

Band

LTE4

3MHz

QPSK

Compliance Certification Services
bove 1GHz High Frequency Substitution Measureme

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber G
Mode: LTE_QPSK Band 4 Harmonics, 3MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1711.5									
3423.00	-20.3	V	3.0	36.1	1.0	-55.3	-13.0	-42.3	
5134.50	-16.5	V	3.0	35.4	1.0	-50.9	-13.0	-37.9	
6846.00	-15.7	V	3.0	35.7	1.0	-50.3	-13.0	-37.3	
3423.00	-20.1	H	3.0	36.1	1.0	-55.1	-13.0	-42.1	
5134.50	-14.1	H	3.0	35.4	1.0	-48.5	-13.0	-35.5	
6846.00	-14.4	H	3.0	35.7	1.0	-49.0	-13.0	-36.0	
Mid Ch, 1732.5									
3465.00	-18.3	V	3.0	36.0	1.0	-53.3	-13.0	-40.3	
5197.50	-15.8	V	3.0	35.4	1.0	-50.2	-13.0	-37.2	
6930.00	-15.6	V	3.0	35.7	1.0	-50.3	-13.0	-37.3	
3465.00	-22.7	H	3.0	36.0	1.0	-57.7	-13.0	-44.7	
5197.50	-15.0	H	3.0	35.4	1.0	-49.4	-13.0	-36.4	
6930.00	-13.6	H	3.0	35.7	1.0	-48.3	-13.0	-35.3	
High Ch, 1753.5									
3507.00	-20.0	V	3.0	36.0	1.0	-55.0	-13.0	-42.0	
5260.50	-16.4	V	3.0	35.4	1.0	-50.8	-13.0	-37.8	
7014.00	-15.6	V	3.0	35.7	1.0	-50.3	-13.0	-37.3	
3507.00	-20.5	H	3.0	36.0	1.0	-55.5	-13.0	-42.5	
5260.50	-15.7	H	3.0	35.4	1.0	-50.1	-13.0	-37.1	
7014.00	-14.0	H	3.0	35.7	1.0	-48.7	-13.0	-35.7	

Band

LTE4

1.4MHz

16QAM

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber G
Mode: LTE_16QAM Band 4 Harmonics, 1.4MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1710.7									
3421.40	-19.5	V	3.0	36.1	1.0	-54.6	-13.0	-41.6	
5132.10	-17.1	V	3.0	35.4	1.0	-51.6	-13.0	-38.6	
6842.80	-16.1	V	3.0	35.7	1.0	-50.7	-13.0	-37.7	
3421.40	-21.5	H	3.0	36.1	1.0	-56.6	-13.0	-43.6	
5132.10	-17.3	H	3.0	35.4	1.0	-51.7	-13.0	-38.7	
6842.80	0.0	H	3.0	35.7	1.0	-34.7	-13.0	-21.7	
Mid Ch, 1732.5									
3465.00	-19.1	V	3.0	36.0	1.0	-54.1	-13.0	-41.1	
5197.50	-16.9	V	3.0	35.4	1.0	-51.3	-13.0	-38.3	
6930.00	-15.4	V	3.0	35.7	1.0	-50.0	-13.0	-37.0	
3465.00	-19.2	H	3.0	36.0	1.0	-54.2	-13.0	-41.2	
5197.50	-16.5	H	3.0	35.4	1.0	-50.9	-13.0	-37.9	
6930.00	-14.1	H	3.0	35.7	1.0	-48.8	-13.0	-35.8	
High Ch, 1754.3									
3508.60	-19.0	V	3.0	36.0	1.0	-54.0	-13.0	-41.0	
5262.90	-16.5	V	3.0	35.4	1.0	-51.0	-13.0	-38.0	
7017.20	-14.7	V	3.0	35.7	1.0	-49.4	-13.0	-36.4	
3508.60	-19.1	H	3.0	36.0	1.0	-54.1	-13.0	-41.1	
5262.90	-14.4	H	3.0	35.4	1.0	-48.8	-13.0	-35.8	
7017.20	-14.5	H	3.0	35.7	1.0	-49.2	-13.0	-36.2	

Band

LTE4

1.4MHz

QPSK

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 15U20107
Date: 4/4/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber G
Mode: LTE_QPSK Band 4 Harmonics, 1.4MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1710.7									
3421.40	-19.5	V	3.0	36.1	1.0	-54.5	-13.0	-41.5	
5132.10	-16.8	V	3.0	35.4	1.0	-51.2	-13.0	-38.2	
6842.80	-15.8	V	3.0	35.7	1.0	-50.4	-13.0	-37.4	
3421.40	-20.7	H	3.0	36.1	1.0	-55.8	-13.0	-42.8	
5132.10	-16.6	H	3.0	35.4	1.0	-51.0	-13.0	-38.0	
6842.80	-14.0	H	3.0	35.7	1.0	-48.7	-13.0	-35.7	
Mid Ch, 1732.5									
3465.00	-18.6	V	3.0	36.0	1.0	-53.6	-13.0	-40.6	
5197.50	-15.7	V	3.0	35.4	1.0	-50.2	-13.0	-37.2	
6930.00	-15.4	V	3.0	35.7	1.0	-50.1	-13.0	-37.1	
3465.00	-18.3	H	3.0	36.0	1.0	-53.4	-13.0	-40.4	
5197.50	-16.4	H	3.0	35.4	1.0	-50.8	-13.0	-37.8	
6930.00	-14.4	H	3.0	35.7	1.0	-49.1	-13.0	-36.1	
High Ch, 1754.3									
3508.60	-19.0	V	3.0	36.0	1.0	-54.0	-13.0	-41.0	
5262.90	-15.7	V	3.0	35.4	1.0	-50.2	-13.0	-37.2	
7017.20	-15.1	V	3.0	35.7	1.0	-49.8	-13.0	-36.8	
3508.60	-18.0	H	3.0	36.0	1.0	-53.0	-13.0	-40.0	
5262.90	-14.3	H	3.0	35.4	1.0	-48.7	-13.0	-35.7	
7017.20	-14.5	H	3.0	35.7	1.0	-49.2	-13.0	-36.2	

LTE Band 5

UL Verification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 15U20107
Date: 04/08/15
Test Engineer: Jude Semana
Configuration: EUT + Charger + Headset
Mode: LTE5 16QAM 10MHz Harm

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 22

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 829MHz									
LTE5	1.658	-25.8	V	3.0	37.4	1.0	-62.2	-13.0	-49.2	
	2.487	-21.8	V	3.0	36.4	1.0	-57.2	-13.0	-44.2	
10MHz	3.316	-21.0	V	3.0	35.8	1.0	-55.8	-13.0	-42.8	
	1.658	-26.7	H	3.0	37.4	1.0	-63.1	-13.0	-50.1	
	2.487	-22.9	H	3.0	36.4	1.0	-58.3	-13.0	-45.3	
16QAM	3.316	-21.5	H	3.0	35.8	1.0	-56.3	-13.0	-43.3	
	Mid Ch, 836.5MHz									
	1.673	-26.0	V	3.0	37.3	1.0	-62.4	-13.0	-49.4	
	2.510	-21.1	V	3.0	36.4	1.0	-56.4	-13.0	-43.4	
	3.346	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
	1.673	-26.4	H	3.0	37.3	1.0	-62.7	-13.0	-49.7	
	2.510	-23.5	H	3.0	36.4	1.0	-58.9	-13.0	-45.9	
	3.346	-21.5	H	3.0	35.8	1.0	-56.3	-13.0	-43.3	
	High Ch, 844MHz									
	1.688	-25.2	V	3.0	37.3	1.0	-61.5	-13.0	-48.5	
	2.532	-21.6	V	3.0	36.3	1.0	-56.9	-13.0	-43.9	
	3.376	-20.3	V	3.0	35.7	1.0	-55.0	-13.0	-42.0	
	1.688	-25.5	H	3.0	37.3	1.0	-61.8	-13.0	-48.8	
	2.532	-22.9	H	3.0	36.3	1.0	-58.2	-13.0	-45.2	
	3.376	-18.4	H	3.0	35.7	1.0	-53.1	-13.0	-40.1	

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: Sony
Project #: 15U20107
Date: 04/08/15
Test Engineer: Jude Semana
Configuration: EUT + Charger + Headset
Mode: LTE5 QPSK 10MHz Harm

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 22

Band: LTE5 10MHz QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 829MHz									
1.658	-25.4	V	3.0	37.4	1.0	-61.8	-13.0	-48.8	
2.487	-24.2	V	3.0	36.4	1.0	-59.5	-13.0	-46.5	
3.316	-19.5	V	3.0	35.8	1.0	-54.3	-13.0	-41.3	
1.658	-26.0	H	3.0	37.4	1.0	-62.4	-13.0	-49.4	
2.487	-24.3	H	3.0	36.4	1.0	-59.7	-13.0	-46.7	
3.316	-19.0	H	3.0	35.8	1.0	-53.8	-13.0	-40.8	
Mid Ch, 836.5MHz									
1.673	-26.6	V	3.0	37.3	1.0	-63.0	-13.0	-50.0	
2.510	-21.7	V	3.0	36.4	1.0	-57.1	-13.0	-44.1	
3.346	-20.7	V	3.0	35.8	1.0	-55.5	-13.0	-42.5	
1.673	-26.1	H	3.0	37.3	1.0	-62.5	-13.0	-49.5	
2.510	-23.4	H	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3.346	-21.1	H	3.0	35.8	1.0	-55.8	-13.0	-42.8	
High Ch, 844MHz									
1.688	-25.6	V	3.0	37.3	1.0	-61.9	-13.0	-48.9	
2.532	-21.8	V	3.0	36.3	1.0	-57.1	-13.0	-44.1	
3.376	-21.2	V	3.0	35.7	1.0	-55.9	-13.0	-42.9	
1.688	-26.0	H	3.0	37.3	1.0	-62.4	-13.0	-49.4	
2.532	-22.8	H	3.0	36.3	1.0	-58.1	-13.0	-45.1	
3.376	-20.9	H	3.0	35.7	1.0	-55.6	-13.0	-42.6	

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: Sony
Project #: 15U20107
Date: 04/08/15
Test Engineer: Jude Semana
Configuration: EUT + Charger + Headset
Mode: LTE5 16QAM 5MHz Harm

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 22

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 826.5MHz									
LTE5	1.653	-26.2	V	3.0	37.4	1.0	-62.5	-13.0	-49.5	
	2.480	-20.3	V	3.0	36.4	1.0	-55.7	-13.0	-42.7	
5MHz	3.306	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
	1.653	-26.4	H	3.0	37.4	1.0	-62.8	-13.0	-49.8	
	2.480	-22.4	H	3.0	36.4	1.0	-57.8	-13.0	-44.8	
16QAM	3.306	-21.9	H	3.0	35.8	1.0	-56.7	-13.0	-43.7	
	Mid Ch, 836.5MHz									
	1.673	-25.5	V	3.0	37.3	1.0	-61.8	-13.0	-48.8	
	2.510	-21.7	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
	3.346	-20.7	V	3.0	35.8	1.0	-55.5	-13.0	-42.5	
	1.673	-26.4	H	3.0	37.3	1.0	-62.7	-13.0	-49.7	
	2.510	-23.8	H	3.0	36.4	1.0	-59.2	-13.0	-46.2	
	3.346	-21.6	H	3.0	35.8	1.0	-56.3	-13.0	-43.3	
	High Ch, 846.5MHz									
	1.693	-25.3	V	3.0	37.3	1.0	-61.6	-13.0	-48.6	
	2.540	-21.6	V	3.0	36.3	1.0	-57.0	-13.0	-44.0	
	3.386	-20.0	V	3.0	35.7	1.0	-54.7	-13.0	-41.7	
	1.693	-26.0	H	3.0	37.3	1.0	-62.3	-13.0	-49.3	
	2.540	-22.3	H	3.0	36.3	1.0	-57.7	-13.0	-44.7	
	3.386	-20.9	H	3.0	35.7	1.0	-55.6	-13.0	-42.6	

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: Sony
Project #: 15U20107
Date: 04/08/15
Test Engineer: Jude Semana
Configuration: EUT + Charger + Headset
Mode: LTE5 QPSK 5MHz Harm

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 22

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 826.5MHz									
LTE5	1.653	-26.1	V	3.0	37.4	1.0	-62.5	-13.0	-49.5	
	2.480	-20.5	V	3.0	36.4	1.0	-55.9	-13.0	-42.9	
5MHz	3.306	-20.7	V	3.0	35.8	1.0	-55.5	-13.0	-42.5	
	1.653	-26.1	H	3.0	37.4	1.0	-62.5	-13.0	-49.5	
QPSK	2.480	-22.7	H	3.0	36.4	1.0	-58.1	-13.0	-45.1	
	3.306	-20.9	H	3.0	35.8	1.0	-55.7	-13.0	-42.7	
	Mid Ch, 836.5MHz									
	1.673	-26.3	V	3.0	37.3	1.0	-62.7	-13.0	-49.7	
	2.510	-22.0	V	3.0	36.4	1.0	-57.3	-13.0	-44.3	
	3.346	-21.4	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
	1.673	-25.5	H	3.0	37.3	1.0	-61.9	-13.0	-48.9	
	2.510	-22.9	H	3.0	36.4	1.0	-58.2	-13.0	-45.2	
	3.346	-21.2	H	3.0	35.8	1.0	-56.0	-13.0	-43.0	
	High Ch, 846.5MHz									
	1.693	-25.6	V	3.0	37.3	1.0	-61.9	-13.0	-48.9	
	2.540	-21.3	V	3.0	36.3	1.0	-56.7	-13.0	-43.7	
	3.386	-20.9	V	3.0	35.7	1.0	-55.6	-13.0	-42.6	
	1.693	-25.5	H	3.0	37.3	1.0	-61.8	-13.0	-48.8	
	2.540	-23.1	H	3.0	36.3	1.0	-58.4	-13.0	-45.4	
	3.386	-20.8	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.

UL Verification Services
Above 1GHz High Frequency Substitution Measurement

Company:	Sony
Project #:	15U20107
Date:	04/08/15
Test Engineer:	Jude Semana
Configuration:	EUT + Charger + Headset
Mode:	LTE5 16QAM 3MHz Harm

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 22

Band
LTE5
3MHz
16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 825.5MHz									
1.651	-27.3	V	3.0	37.4	1.0	-63.6	-13.0	-50.6	
2.477	-22.5	V	3.0	36.4	1.0	-57.9	-13.0	-44.9	
3.302	-19.2	V	3.0	35.8	1.0	-54.0	-13.0	-41.0	
1.651	-25.5	H	3.0	37.4	1.0	-61.9	-13.0	-48.9	
2.477	-24.0	H	3.0	36.4	1.0	-59.4	-13.0	-46.4	
3.302	-18.6	H	3.0	35.8	1.0	-53.4	-13.0	-40.4	
Mid Ch, 836.5MHz									
1.673	-25.2	V	3.0	37.3	1.0	-61.6	-13.0	-48.6	
2.510	-23.0	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
3.346	-19.3	V	3.0	35.8	1.0	-54.0	-13.0	-41.0	
1.673	-26.0	H	3.0	37.3	1.0	-62.3	-13.0	-49.3	
2.510	-24.0	H	3.0	36.4	1.0	-59.4	-13.0	-46.4	
3.346	-20.6	H	3.0	35.8	1.0	-55.3	-13.0	-42.3	
High Ch, 847.5MHz									
1.695	-25.7	V	3.0	37.3	1.0	-62.0	-13.0	-49.0	
2.543	-22.2	V	3.0	36.3	1.0	-57.5	-13.0	-44.5	
3.390	-20.6	V	3.0	35.7	1.0	-55.3	-13.0	-42.3	
1.695	-25.6	H	3.0	37.3	1.0	-61.9	-13.0	-48.9	
2.543	-23.7	H	3.0	36.3	1.0	-59.0	-13.0	-46.0	
3.390	-20.8	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.

UL Verification Services
Above 1GHz High Frequency Substitution Measurement

Company:	Sony
Project #:	15U20107
Date:	04/08/15
Test Engineer:	Jude Semana
Configuration:	EUT + Charger + Headset
Mode:	LTE5 QPSK 3MHz Harm

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 22

Band: LTE5 3MHz QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 825.5MHz									
1.651	-26.7	V	3.0	37.4	1.0	-63.0	-13.0	-50.0	
2.477	-22.5	V	3.0	36.4	1.0	-57.9	-13.0	-44.9	
3.302	-18.8	V	3.0	35.8	1.0	-53.6	-13.0	-40.6	
1.651	-26.8	H	3.0	37.4	1.0	-63.1	-13.0	-50.1	
2.477	-24.2	H	3.0	36.4	1.0	-59.6	-13.0	-46.6	
3.302	-19.2	H	3.0	35.8	1.0	-54.0	-13.0	-41.0	
Mid Ch, 836.5MHz									
1.673	-26.3	V	3.0	37.3	1.0	-62.6	-13.0	-49.6	
2.510	-22.9	V	3.0	36.4	1.0	-58.3	-13.0	-45.3	
3.346	-19.4	V	3.0	35.8	1.0	-54.1	-13.0	-41.1	
1.673	-26.2	H	3.0	37.3	1.0	-62.6	-13.0	-49.6	
2.510	-23.9	H	3.0	36.4	1.0	-59.3	-13.0	-46.3	
3.346	-20.5	H	3.0	35.8	1.0	-55.2	-13.0	-42.2	
High Ch, 847.5MHz									
1.695	-25.2	V	3.0	37.3	1.0	-61.5	-13.0	-48.5	
2.543	-21.8	V	3.0	36.3	1.0	-57.2	-13.0	-44.2	
3.390	-20.9	V	3.0	35.7	1.0	-55.6	-13.0	-42.6	
1.695	-26.2	H	3.0	37.3	1.0	-62.5	-13.0	-49.5	
2.543	-23.4	H	3.0	36.3	1.0	-58.7	-13.0	-45.7	
3.390	-20.9	H	3.0	35.7	1.0	-55.6	-13.0	-42.6	

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

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

Company:	Sony
Project #:	15U20107
Date:	04/08/15
Test Engineer:	Jude Semana
Configuration:	EUT + Charger + Headset
Mode:	LTE5 1.4MHz 16QAM HARM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 22

Band: LTE5 1.4MHz 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7MHz									
1.649	-26.6	V	3.0	37.4	1.0	-63.0	-13.0	-50.0	
2.474	-21.1	V	3.0	36.4	1.0	-56.5	-13.0	-43.5	
3.299	-21.4	V	3.0	35.8	1.0	-56.2	-13.0	-43.2	
1.649	-26.5	H	3.0	37.4	1.0	-62.9	-13.0	-49.9	
2.474	-23.0	H	3.0	36.4	1.0	-58.4	-13.0	-45.4	
3.299	-22.0	H	3.0	35.8	1.0	-56.8	-13.0	-43.8	
Mid Ch, 836.5MHz									
1.673	-27.0	V	3.0	37.3	1.0	-63.3	-13.0	-50.3	
2.510	-23.6	V	3.0	36.4	1.0	-59.0	-13.0	-46.0	
3.346	-22.4	V	3.0	35.8	1.0	-57.2	-13.0	-44.2	
1.673	-27.9	H	3.0	37.3	1.0	-64.2	-13.0	-51.2	
2.510	-25.2	H	3.0	36.4	1.0	-60.5	-13.0	-47.5	
3.346	-22.6	H	3.0	35.8	1.0	-57.3	-13.0	-44.3	
High Ch, 848.3MHz									
1.697	-25.7	V	3.0	37.3	1.0	-62.0	-13.0	-49.0	
2.545	-22.8	V	3.0	36.3	1.0	-58.1	-13.0	-45.1	
3.393	-20.8	V	3.0	35.7	1.0	-55.5	-13.0	-42.5	
1.697	-26.2	H	3.0	37.3	1.0	-62.5	-13.0	-49.5	
2.545	-23.9	H	3.0	36.3	1.0	-59.2	-13.0	-46.2	
3.393	-21.0	H	3.0	35.7	1.0	-55.7	-13.0	-42.7	

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

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

Company:	Sony
Project #:	15U20107
Date:	04/08/15
Test Engineer:	Jude Semana
Configuration:	EUT + Charger + Headset
Mode:	LTE5 1.4MHz QPSK HARM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 22

Band: LTE5 1.4MHz QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 824.7MHz									
1.649	-26.8	V	3.0	37.4	1.0	-63.2	-13.0	-50.2	
2.474	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
3.299	-22.3	V	3.0	35.8	1.0	-57.1	-13.0	-44.1	
1.649	-27.1	H	3.0	37.4	1.0	-63.5	-13.0	-50.5	
2.474	-23.8	H	3.0	36.4	1.0	-59.2	-13.0	-46.2	
3.299	-22.6	H	3.0	35.8	1.0	-57.4	-13.0	-44.4	
Mid Ch, 836.5MHz									
1.673	-27.0	V	3.0	37.3	1.0	-63.3	-13.0	-50.3	
2.510	-23.3	V	3.0	36.4	1.0	-58.6	-13.0	-45.6	
3.346	-22.8	V	3.0	35.8	1.0	-57.5	-13.0	-44.5	
1.673	-27.7	H	3.0	37.3	1.0	-64.0	-13.0	-51.0	
2.510	-25.0	H	3.0	36.4	1.0	-60.4	-13.0	-47.4	
3.346	-22.7	H	3.0	35.8	1.0	-57.5	-13.0	-44.5	
High Ch, 848.3MHz									
1.697	-25.7	V	3.0	37.3	1.0	-62.0	-13.0	-49.0	
2.545	-22.2	V	3.0	36.3	1.0	-57.6	-13.0	-44.6	
3.393	-20.2	V	3.0	35.7	1.0	-54.9	-13.0	-41.9	
1.697	-26.2	H	3.0	37.3	1.0	-62.5	-13.0	-49.5	
2.545	-23.8	H	3.0	36.3	1.0	-59.1	-13.0	-46.1	
3.393	-21.5	H	3.0	35.7	1.0	-56.2	-13.0	-43.2	

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

LTE Band 7

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 15U20107
Date: 4/6/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber C
Mode: LTE_16QAM Band 7 Harmonics, 20MHz Bandwidth

Band
LTE7
20MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2510									
5020.00	-16.8	V	3.0	35.5	1.0	-51.3	-25.0	-26.3	
7530.00	-15.4	V	3.0	35.7	1.0	-50.2	-25.0	-25.2	
10040.00	-12.9	V	3.0	36.0	1.0	-47.9	-25.0	-22.9	
5020.00	-17.6	H	3.0	35.5	1.0	-52.0	-25.0	-27.0	
7530.00	-14.2	H	3.0	35.7	1.0	-48.9	-25.0	-23.9	
10040.00	-12.4	H	3.0	36.0	1.0	-47.4	-25.0	-22.4	
Mid Ch, 2535									
5070.00	-17.0	V	3.0	35.4	1.0	-51.4	-25.0	-26.4	
7605.00	-14.0	V	3.0	35.8	1.0	-48.7	-25.0	-23.7	
10140.00	-12.9	V	3.0	36.0	1.0	-47.9	-25.0	-22.9	
5070.00	-17.4	H	3.0	35.4	1.0	-51.9	-25.0	-26.9	
7605.00	-13.7	H	3.0	35.8	1.0	-48.5	-25.0	-23.5	
10140.00	-11.9	H	3.0	36.0	1.0	-46.9	-25.0	-21.9	
High Ch, 2560									
5120.00	-17.1	V	3.0	35.4	1.0	-51.5	-25.0	-26.5	
7680.00	-14.1	V	3.0	35.8	1.0	-48.9	-25.0	-23.9	
10240.00	-11.7	V	3.0	35.9	1.0	-46.7	-25.0	-21.7	
5120.00	-17.1	H	3.0	35.4	1.0	-51.6	-25.0	-26.6	
7680.00	-14.0	H	3.0	35.8	1.0	-48.7	-25.0	-23.7	
10240.00	-12.7	H	3.0	35.9	1.0	-47.6	-25.0	-22.6	

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 15U20107
Date: 4/6/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber C
Mode: LTE_QPSK Band 7 Harmonics, 20MHz Bandwidth

Band
LTE7
20MHz
QPSK

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2510									
5020.00	-16.8	V	3.0	35.5	1.0	-51.2	-25.0	-26.2	
7530.00	-14.8	V	3.0	35.7	1.0	-49.5	-25.0	-24.5	
10040.00	-13.4	V	3.0	36.0	1.0	-48.4	-25.0	-23.4	
5020.00	-18.0	H	3.0	35.5	1.0	-52.5	-25.0	-27.5	
7530.00	-14.2	H	3.0	35.7	1.0	-48.9	-25.0	-23.9	
10040.00	-12.1	H	3.0	36.0	1.0	-47.1	-25.0	-22.1	
Mid Ch, 2535									
5070.00	-16.5	V	3.0	35.4	1.0	-51.0	-25.0	-26.0	
7605.00	-14.2	V	3.0	35.8	1.0	-48.9	-25.0	-23.9	
10140.00	-13.0	V	3.0	36.0	1.0	-47.9	-25.0	-22.9	
5070.00	-17.8	H	3.0	35.4	1.0	-52.2	-25.0	-27.2	
7605.00	-14.0	H	3.0	35.8	1.0	-48.7	-25.0	-23.7	
10140.00	-12.1	H	3.0	36.0	1.0	-47.0	-25.0	-22.0	
High Ch, 2560									
5120.00	-16.3	V	3.0	35.4	1.0	-50.8	-25.0	-25.8	
7680.00	-14.7	V	3.0	35.8	1.0	-49.4	-25.0	-24.4	
10240.00	-11.9	V	3.0	35.9	1.0	-46.8	-25.0	-21.8	
5120.00	-17.7	H	3.0	35.4	1.0	-52.2	-25.0	-27.2	
7680.00	-13.5	H	3.0	35.8	1.0	-48.3	-25.0	-23.3	
10240.00	-12.1	H	3.0	35.9	1.0	-47.1	-25.0	-22.1	

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 15U20107
Date: 4/6/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber C
Mode: LTE_16QAM Band 7 Harmonics, 15MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 2507.5									
LTE7	5015.00	-17.8	V	3.0	35.5	1.0	-52.3	-25.0	-27.3	
	7522.50	-15.4	V	3.0	35.7	1.0	-50.2	-25.0	-25.2	
	10030.00	-12.7	V	3.0	36.0	1.0	-47.7	-25.0	-22.7	
15MHz	5015.00	-17.5	H	3.0	35.5	1.0	-52.0	-25.0	-27.0	
	7522.50	-13.6	H	3.0	35.7	1.0	-48.4	-25.0	-23.4	
	10030.00	-11.7	H	3.0	36.0	1.0	-46.7	-25.0	-21.7	
16QAM	Mid Ch, 2535									
	5070.00	-17.4	V	3.0	35.4	1.0	-51.9	-25.0	-26.9	
	7605.00	-15.1	V	3.0	35.8	1.0	-49.9	-25.0	-24.9	
	10140.00	-12.9	V	3.0	36.0	1.0	-47.9	-25.0	-22.9	
	5070.00	-17.4	H	3.0	35.4	1.0	-51.8	-25.0	-26.8	
	7605.00	-14.3	H	3.0	35.8	1.0	-49.1	-25.0	-24.1	
	10140.00	-11.7	H	3.0	36.0	1.0	-46.7	-25.0	-21.7	
	High Ch, 2562.5									
	5125.00	-17.8	V	3.0	35.4	1.0	-52.2	-25.0	-27.2	
	7687.50	-13.2	V	3.0	35.8	1.0	-47.9	-25.0	-22.9	
	10250.00	-13.1	V	3.0	35.9	1.0	-48.0	-25.0	-23.0	
	5125.00	-17.3	H	3.0	35.4	1.0	-51.8	-25.0	-26.8	
	7687.50	-13.8	H	3.0	35.8	1.0	-48.6	-25.0	-23.6	
	10250.00	-12.5	H	3.0	35.9	1.0	-47.4	-25.0	-22.4	

Band
LTE7
15MHz
QPSK

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 15U20107
Date: 4/6/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber C
Mode: LTE_QPSK Band 7 Harmonics, 15MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2507.5									
5015.00	-17.3	V	3.0	35.5	1.0	-51.8	-25.0	-26.8	
7522.50	-15.9	V	3.0	35.7	1.0	-50.6	-25.0	-25.6	
10030.00	-12.8	V	3.0	36.0	1.0	-47.8	-25.0	-22.8	
5015.00	-17.4	H	3.0	35.5	1.0	-51.9	-25.0	-26.9	
7522.50	-14.2	H	3.0	35.7	1.0	-48.9	-25.0	-23.9	
10030.00	-12.5	H	3.0	36.0	1.0	-47.6	-25.0	-22.6	
Mid Ch, 2535									
5070.00	-16.6	V	3.0	35.4	1.0	-51.0	-25.0	-26.0	
7605.00	-14.5	V	3.0	35.8	1.0	-49.3	-25.0	-24.3	
10140.00	-13.7	V	3.0	36.0	1.0	-48.7	-25.0	-23.7	
5070.00	-17.4	H	3.0	35.4	1.0	-51.8	-25.0	-26.8	
7605.00	-14.1	H	3.0	35.8	1.0	-48.9	-25.0	-23.9	
10140.00	-12.4	H	3.0	36.0	1.0	-47.4	-25.0	-22.4	
High Ch, 2562.5									
5125.00	-16.6	V	3.0	35.4	1.0	-51.0	-25.0	-26.0	
7687.50	-14.7	V	3.0	35.8	1.0	-49.5	-25.0	-24.5	
10250.00	-12.9	V	3.0	35.9	1.0	-47.8	-25.0	-22.8	
5125.00	-17.4	H	3.0	35.4	1.0	-51.8	-25.0	-26.8	
7687.50	-12.9	H	3.0	35.8	1.0	-47.6	-25.0	-22.6	
10250.00	-12.4	H	3.0	35.9	1.0	-47.3	-25.0	-22.3	

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 15U20107
Date: 4/6/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber C
Mode: LTE_16QAM Band 7 Harmonics, 10MHz Bandwidth

Band
LTE7
10MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2505									
5010.00	-18.0	V	3.0	35.5	1.0	-52.4	-25.0	-27.4	
7515.00	-15.4	V	3.0	35.7	1.0	-50.2	-25.0	-25.2	
10020.00	-13.1	V	3.0	36.0	1.0	-48.1	-25.0	-23.1	
5010.00	-18.3	H	3.0	35.5	1.0	-52.7	-25.0	-27.7	
7515.00	-14.1	H	3.0	35.7	1.0	-48.8	-25.0	-23.8	
10020.00	-12.3	H	3.0	36.0	1.0	-47.3	-25.0	-22.3	
Mid Ch, 2535									
5070.00	-17.2	V	3.0	35.4	1.0	-51.7	-25.0	-26.7	
7605.00	-16.4	V	3.0	35.8	1.0	-51.1	-25.0	-26.1	
10140.00	-12.9	V	3.0	36.0	1.0	-47.8	-25.0	-22.8	
5070.00	-17.4	H	3.0	35.4	1.0	-51.8	-25.0	-26.8	
7605.00	-14.2	H	3.0	35.8	1.0	-49.0	-25.0	-24.0	
10140.00	-12.0	H	3.0	36.0	1.0	-46.9	-25.0	-21.9	
High Ch, 2565									
5130.00	-17.4	V	3.0	35.4	1.0	-51.8	-25.0	-26.8	
7695.00	-15.5	V	3.0	35.8	1.0	-50.2	-25.0	-25.2	
10260.00	-13.6	V	3.0	35.9	1.0	-48.5	-25.0	-23.5	
5130.00	-17.4	H	3.0	35.4	1.0	-51.8	-25.0	-26.8	
7695.00	-14.0	H	3.0	35.8	1.0	-48.8	-25.0	-23.8	
10260.00	-12.5	H	3.0	35.9	1.0	-47.4	-25.0	-22.4	

Band
LTE7
10MHz
QPSK

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 15U20107
Date: 4/6/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber C
Mode: LTE_QPSK Band 7 Harmonics, 10MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2505									
5010.00	-17.1	V	3.0	35.5	1.0	-51.6	-25.0	-26.6	
7515.00	-15.6	V	3.0	35.7	1.0	-50.3	-25.0	-25.3	
10020.00	-13.0	V	3.0	36.0	1.0	-48.0	-25.0	-23.0	
5010.00	-17.6	H	3.0	35.5	1.0	-52.1	-25.0	-27.1	
7515.00	-14.1	H	3.0	35.7	1.0	-48.8	-25.0	-23.8	
10020.00	-12.0	H	3.0	36.0	1.0	-47.0	-25.0	-22.0	
Mid Ch, 2535									
5070.00	-17.0	V	3.0	35.4	1.0	-51.5	-25.0	-26.5	
7605.00	-15.8	V	3.0	35.8	1.0	-50.5	-25.0	-25.5	
10140.00	-12.8	V	3.0	36.0	1.0	-47.8	-25.0	-22.8	
5070.00	-18.2	H	3.0	35.4	1.0	-52.7	-25.0	-27.7	
7605.00	-13.0	H	3.0	35.8	1.0	-47.7	-25.0	-22.7	
10140.00	-11.8	H	3.0	36.0	1.0	-46.7	-25.0	-21.7	
High Ch, 2565									
5130.00	-16.7	V	3.0	35.4	1.0	-51.1	-25.0	-26.1	
7695.00	-15.0	V	3.0	35.8	1.0	-49.8	-25.0	-24.8	
10260.00	-12.6	V	3.0	35.9	1.0	-47.5	-25.0	-22.5	
5130.00	-17.1	H	3.0	35.4	1.0	-51.5	-25.0	-26.5	
7695.00	-12.9	H	3.0	35.8	1.0	-47.7	-25.0	-22.7	
10260.00	-12.2	H	3.0	35.9	1.0	-47.1	-25.0	-22.1	

Band

LTE7

5MHz

16QAM

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 15U20107
Date: 4/6/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber C
Mode: LTE_16QAM Band 7 Harmonics, 5MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2502.5									
5005.00	-18.0	V	3.0	35.5	1.0	-52.4	-25.0	-27.4	
7507.50	-15.9	V	3.0	35.7	1.0	-50.6	-25.0	-25.6	
10010.00	-13.4	V	3.0	36.0	1.0	-48.4	-25.0	-23.4	
5005.00	-18.3	H	3.0	35.5	1.0	-52.7	-25.0	-27.7	
7507.50	-13.2	H	3.0	35.7	1.0	-48.0	-25.0	-23.0	
10010.00	-12.0	H	3.0	36.0	1.0	-47.0	-25.0	-22.0	
Mid Ch, 2535									
5070.00	-18.5	V	3.0	35.4	1.0	-53.0	-25.0	-28.0	
7605.00	-15.1	V	3.0	35.8	1.0	-49.9	-25.0	-24.9	
10140.00	-12.9	V	3.0	36.0	1.0	-47.9	-25.0	-22.9	
5070.00	-17.4	H	3.0	35.4	1.0	-51.9	-25.0	-26.9	
7605.00	-14.0	H	3.0	35.8	1.0	-48.8	-25.0	-23.8	
10140.00	-12.4	H	3.0	36.0	1.0	-47.4	-25.0	-22.4	
High Ch, 2567.5									
5135.00	-18.1	V	3.0	35.4	1.0	-52.5	-25.0	-27.5	
7702.50	-15.6	V	3.0	35.8	1.0	-50.3	-25.0	-25.3	
10270.00	-12.8	V	3.0	35.9	1.0	-47.7	-25.0	-22.7	
5135.00	-17.9	H	3.0	35.4	1.0	-52.4	-25.0	-27.4	
7702.50	-14.4	H	3.0	35.8	1.0	-49.1	-25.0	-24.1	
10270.00	-12.3	H	3.0	35.9	1.0	-47.2	-25.0	-22.2	

Band
LTE7
5MHz
QPSK

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 15U20107
Date: 4/6/2015
Test Engineer: K.Kedida
Configuration: EUT/AC Charger/ HS
Location: Chamber C
Mode: LTE_QPSK Band 7 Harmonics, 5MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2502.5									
5005.00	-18.3	V	3.0	35.5	1.0	-52.8	-25.0	-27.8	
7507.50	-15.1	V	3.0	35.7	1.0	-49.8	-25.0	-24.8	
10010.00	-13.6	V	3.0	36.0	1.0	-48.6	-25.0	-23.6	
5005.00	-17.6	H	3.0	35.5	1.0	-52.1	-25.0	-27.1	
7507.50	-13.9	H	3.0	35.7	1.0	-48.6	-25.0	-23.6	
10010.00	-12.1	H	3.0	36.0	1.0	-47.1	-25.0	-22.1	
Mid Ch, 2535									
5070.00	-18.2	V	3.0	35.4	1.0	-52.6	-25.0	-27.6	
7605.00	-14.1	V	3.0	35.8	1.0	-48.9	-25.0	-23.9	
10140.00	-13.4	V	3.0	36.0	1.0	-48.3	-25.0	-23.3	
5070.00	-17.7	H	3.0	35.4	1.0	-52.1	-25.0	-27.1	
7605.00	-13.0	H	3.0	35.8	1.0	-47.7	-25.0	-22.7	
10140.00	-12.4	H	3.0	36.0	1.0	-47.4	-25.0	-22.4	
High Ch, 2567.5									
5135.00	-18.5	V	3.0	35.4	1.0	-52.9	-25.0	-27.9	
7702.50	-14.2	V	3.0	35.8	1.0	-49.0	-25.0	-24.0	
10270.00	-12.7	V	3.0	35.9	1.0	-47.6	-25.0	-22.6	
5135.00	-17.1	H	3.0	35.4	1.0	-51.5	-25.0	-26.5	
7702.50	-14.2	H	3.0	35.8	1.0	-48.9	-25.0	-23.9	
10270.00	-12.1	H	3.0	35.9	1.0	-47.0	-25.0	-22.0	

LTE Band 13

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

Company:	Sony
Project #:	15U20107
Date:	04/08/15
Test Engineer:	Jude Semana
Configuration:	EUT + Charger + Headset
Location:	Chamber G
Mode:	LTE_16QAM Band 13 Harmonics, 10MHz Bandwidth

Band
LTE13
10MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 782									
	0.0	V	3.0	37.1	1.0	0.0	-13.0	0.0	
	0.0	V	3.0	36.5	1.0	0.0	-13.0	0.0	
	0.0	V	3.0	36.3	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	37.1	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	36.5	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	36.3	1.0	0.0	-13.0	0.0	
Mid Ch, 782									
1564.00	-27.8	V	3.0	37.1	1.0	-64.0	-13.0	-51.0	
2346.00	-20.5	V	3.0	36.5	1.0	-55.9	-13.0	-42.9	
3128.00	-20.5	V	3.0	36.3	1.0	-55.7	-13.0	-42.7	
1564.00	-26.0	H	3.0	37.1	1.0	-62.2	-13.0	-49.2	
2346.00	-24.4	H	3.0	36.5	1.0	-59.9	-13.0	-46.9	
3128.00	-19.6	H	3.0	36.3	1.0	-54.9	-13.0	-41.9	
High Ch, 782									
	0.0	V	3.0	37.1	1.0	0.0	-13.0	0.0	
	0.0	V	3.0	36.5	1.0	0.0	-13.0	0.0	
	0.0	V	3.0	36.3	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	37.1	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	36.5	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	36.3	1.0	0.0	-13.0	0.0	

Band
LTE13
10MHz
QPSK

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

Company: Sony
Project #: 15U20107
Date: 04/08/15
Test Engineer: Jude Semana
Configuration: EUT + Charger + Headset
Location: Chamber G
Mode: LTE_QPSK Band 13 Harmonics, 10MHz Bandwidth

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 782									
	0.0	V	3.0	37.1	1.0	0.0	-13.0	0.0	
	0.0	V	3.0	36.5	1.0	0.0	-13.0	0.0	
	0.0	V	3.0	36.3	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	37.1	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	36.5	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	36.3	1.0	0.0	-13.0	0.0	
Mid Ch, 782									
1564.00	-27.7	V	3.0	37.1	1.0	-63.8	-13.0	-50.8	
2346.00	-21.2	V	3.0	36.5	1.0	-56.7	-13.0	-43.7	
3128.00	-19.6	V	3.0	36.3	1.0	-54.9	-13.0	-41.9	
1564.00	-28.5	H	3.0	37.1	1.0	-64.6	-13.0	-51.6	
2346.00	-22.9	H	3.0	36.5	1.0	-58.4	-13.0	-45.4	
3128.00	-19.6	H	3.0	36.3	1.0	-54.9	-13.0	-41.9	
High Ch, 782									
	0.0	V	3.0	37.1	1.0	0.0	-13.0	0.0	
	0.0	V	3.0	36.5	1.0	0.0	-13.0	0.0	
	0.0	V	3.0	36.3	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	37.1	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	36.5	1.0	0.0	-13.0	0.0	
	0.0	H	3.0	36.3	1.0	0.0	-13.0	0.0	

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

Company:	Sony
Project #:	15U20107
Date:	04/08/15
Test Engineer:	Jude Semana
Configuration:	EUT + Charger + Headset
Mode:	LTE13_5M_16QAM

Band
LTE13
5MHz
16QAM

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 779.5									
1559.00	-27.1	V	3.0	37.0	1.0	-63.1	-13.0	-50.1	
2338.50	-20.8	V	3.0	36.4	1.0	-56.2	-13.0	-43.2	
3118.00	-19.5	V	3.0	36.2	1.0	-54.7	-13.0	-41.7	
1559.00	-26.9	H	3.0	37.0	1.0	-62.9	-13.0	-49.9	
2338.50	-23.3	H	3.0	36.4	1.0	-58.7	-13.0	-45.7	
3118.00	-19.6	H	3.0	36.2	1.0	-54.7	-13.0	-41.7	
Mid Ch, 782									
1564.00	-26.1	V	3.0	37.0	1.0	-62.1	-13.0	-49.1	
2346.00	-20.6	V	3.0	36.4	1.0	-56.0	-13.0	-43.0	
3128.00	-19.4	V	3.0	36.1	1.0	-54.5	-13.0	-41.5	
1564.00	-26.8	H	3.0	37.0	1.0	-62.8	-13.0	-49.8	
2346.00	-22.3	H	3.0	36.4	1.0	-57.7	-13.0	-44.7	
3128.00	-19.2	H	3.0	36.1	1.0	-54.4	-13.0	-41.4	
High Ch, 784.5									
1569.00	-26.1	V	3.0	37.0	1.0	-62.1	-13.0	-49.1	
2353.50	-20.1	V	3.0	36.4	1.0	-55.5	-13.0	-42.5	
3138.00	-17.4	V	3.0	36.1	1.0	-52.5	-13.0	-39.5	
1569.00	-25.8	H	3.0	37.0	1.0	-61.8	-13.0	-48.8	
2353.50	-22.0	H	3.0	36.4	1.0	-57.4	-13.0	-44.4	
3138.00	-17.9	H	3.0	36.1	1.0	-53.0	-13.0	-40.0	

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

Company:	Sony
Project #:	15U20107
Date:	04/08/15
Test Engineer:	Jude Semana
Configuration:	EUT + Charger + Headset
Mode:	LTE13_5M_QPSK

Band
LTE13
5MHz
QPSK

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 779.5									
1559.00	-26.9	V	3.0	37.0	1.0	-62.9	-13.0	-49.9	
2338.50	-20.5	V	3.0	36.4	1.0	-56.0	-13.0	-43.0	
3118.00	-19.4	V	3.0	36.2	1.0	-54.6	-13.0	-41.6	
1559.00	-26.6	H	3.0	37.0	1.0	-62.6	-13.0	-49.6	
2338.50	-22.9	H	3.0	36.4	1.0	-58.3	-13.0	-45.3	
3118.00	-19.2	H	3.0	36.2	1.0	-54.3	-13.0	-41.3	
Mid Ch, 782									
1564.00	-24.4	V	3.0	37.0	1.0	-60.4	-13.0	-47.4	
2346.00	-21.7	V	3.0	36.4	1.0	-57.1	-13.0	-44.1	
3128.00	-17.9	V	3.0	36.1	1.0	-53.0	-13.0	-40.0	
1564.00	-24.2	H	3.0	37.0	1.0	-60.2	-13.0	-47.2	
2346.00	-23.7	H	3.0	36.4	1.0	-59.1	-13.0	-46.1	
3128.00	-17.5	H	3.0	36.1	1.0	-52.6	-13.0	-39.6	
High Ch, 784.5									
1569.00	-26.0	V	3.0	37.0	1.0	-62.0	-13.0	-49.0	
2353.50	-20.1	V	3.0	36.4	1.0	-55.5	-13.0	-42.5	
3138.00	-17.1	V	3.0	36.1	1.0	-52.2	-13.0	-39.2	
1569.00	-26.1	H	3.0	37.0	1.0	-62.1	-13.0	-49.1	
2353.50	-22.1	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	
3138.00	-18.3	H	3.0	36.1	1.0	-53.4	-13.0	-40.4	