

**Compliance Certification Services**  
**Above 1GHz High Frequency Substitution Measurement**

**Company:** Sony  
**Project #:** 14U17933  
**Date:** 08/14/14  
**Test Engineer:** G. Chan, L. Lee  
**Configuration:** X-Pos EUT w/ AC charger  
**Mode:** LTE7 5MHz QPSK

Chamber  
3m Chamber

Pre-amplifier  
T34 8449B

Filter  
Filter 1

Limit  
Part 27

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	<b>Low Ch, 2502.5MHz</b>									
	5.005	-22.4	V	3.0	34.8	1.0	-56.2	-25.0	-31.2	
	7.508	-19.5	V	3.0	34.9	1.0	-53.4	-25.0	-28.4	
5MHz	10.010	-22.5	V	3.0	35.4	1.0	-56.9	-25.0	-31.9	
	5.005	-25.7	H	3.0	34.8	1.0	-59.4	-25.0	-34.4	
	7.508	-19.7	H	3.0	34.9	1.0	-53.6	-25.0	-28.6	
QPSK	10.010	-21.7	H	3.0	35.4	1.0	-56.0	-25.0	-31.0	
	<b>Mid Ch, 2535.0MHz</b>									
	5.070	-20.8	V	3.0	34.7	1.0	-54.6	-25.0	-29.6	
	7.605	-21.0	V	3.0	34.9	1.0	-55.0	-25.0	-30.0	
	10.140	-22.4	V	3.0	35.3	1.0	-56.7	-25.0	-31.7	
	5.070	-17.6	H	3.0	34.7	1.0	-51.3	-25.0	-26.3	
	7.605	-18.2	H	3.0	34.9	1.0	-52.2	-25.0	-27.2	
	10.140	-21.5	H	3.0	35.3	1.0	-55.8	-25.0	-30.8	
	<b>High Ch, 2567.5MHz</b>									
	5.135	-23.5	V	3.0	34.7	1.0	-57.2	-25.0	-32.2	
	7.703	-22.7	V	3.0	35.0	1.0	-56.6	-25.0	-31.6	
	10.270	-21.7	V	3.0	35.2	1.0	-55.9	-25.0	-30.9	
	5.135	-20.7	H	3.0	34.7	1.0	-54.4	-25.0	-29.4	
	7.703	-20.3	H	3.0	35.0	1.0	-54.2	-25.0	-29.2	
	10.270	-21.0	H	3.0	35.2	1.0	-55.3	-25.0	-30.3	

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 #:		14U17933								
Date:		08/14/14								
Test Engineer:		M. Zarin, E. Lee								
Configuration:		EUT with AC charge								
Mode:		LTE5 10MHz 16QAM								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		T145 8449B			Filter 1		FCC Part 22			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (829MHz)										
LTE5	1.658	-30.4	V	3.0	35.5	1.0	-64.9	-13.0	-51.9	
	2.487	-27.7	V	3.0	35.4	1.0	-62.1	-13.0	-49.1	
	3.316	-32.1	V	3.0	35.5	1.0	-66.6	-13.0	-53.6	
10MHz	1.658	-28.2	H	3.0	35.5	1.0	-62.7	-13.0	-49.7	
	2.487	-25.9	H	3.0	35.4	1.0	-60.3	-13.0	-47.3	
	3.316	-31.9	H	3.0	35.5	1.0	-66.4	-13.0	-53.4	
Mid Channel (836.5MHz)										
16QAM	1.673	-29.5	V	3.0	35.5	1.0	-64.1	-13.0	-51.1	
	2.510	-30.9	V	3.0	35.4	1.0	-65.4	-13.0	-52.4	
	3.346	-31.8	V	3.0	35.5	1.0	-66.4	-13.0	-53.4	
	1.673	-31.7	H	3.0	35.5	1.0	-66.3	-13.0	-53.3	
	2.510	-32.5	H	3.0	35.4	1.0	-66.9	-13.0	-53.9	
	3.346	-29.8	H	3.0	35.5	1.0	-64.3	-13.0	-51.3	
High Channel (844MHz)										
	1.688	-37.3	V	3.0	35.5	1.0	-71.9	-13.0	-58.9	
	2.532	-31.1	V	3.0	35.4	1.0	-65.6	-13.0	-52.6	
	3.376	-33.9	V	3.0	35.5	1.0	-68.4	-13.0	-55.4	
	1.688	-38.8	H	3.0	35.5	1.0	-73.3	-13.0	-60.3	
	2.532	-34.9	H	3.0	35.4	1.0	-69.3	-13.0	-56.3	
	3.376	-32.1	H	3.0	35.5	1.0	-66.6	-13.0	-53.6	
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 #:		14U17933								
Date:		08/14/14								
Test Engineer:		M. Zarin, E. Lee								
Configuration:		EUT with AC charge								
Mode:		LTE5 10MHz QPSK								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		T145 8449B		Filter 1		FCC Part 22				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (829MHz)										
LTE5	1.658	-30.0	V	3.0	35.5	1.0	-64.6	-13.0	-51.6	
	2.487	-27.3	V	3.0	35.4	1.0	-61.7	-13.0	-48.7	
	3.316	-31.9	V	3.0	35.5	1.0	-66.4	-13.0	-53.4	
10MHz	1.658	-28.1	H	3.0	35.5	1.0	-62.7	-13.0	-49.7	
	2.487	-24.3	H	3.0	35.4	1.0	-58.7	-13.0	-45.7	
	3.316	-32.1	H	3.0	35.5	1.0	-66.6	-13.0	-53.6	
QPSK	Mid Channel (836.5MHz)									
	1.673	-28.7	V	3.0	35.5	1.0	-63.2	-13.0	-50.2	
	2.510	-29.4	V	3.0	35.4	1.0	-63.8	-13.0	-50.8	
	3.346	-31.7	V	3.0	35.5	1.0	-66.2	-13.0	-53.2	
	1.673	-28.6	H	3.0	35.5	1.0	-63.1	-13.0	-50.1	
	2.510	-31.5	H	3.0	35.4	1.0	-65.9	-13.0	-52.9	
	3.346	-29.7	H	3.0	35.5	1.0	-64.2	-13.0	-51.2	
	High Channel (844MHz)									
	1.688	-36.9	V	3.0	35.5	1.0	-71.4	-13.0	-58.4	
2.532	-30.4	V	3.0	35.4	1.0	-64.8	-13.0	-51.8		
3.376	-34.0	V	3.0	35.5	1.0	-68.5	-13.0	-55.5		
1.688	-37.3	H	3.0	35.5	1.0	-71.8	-13.0	-58.8		
2.532	-33.1	H	3.0	35.4	1.0	-67.5	-13.0	-54.5		
3.376	-33.9	H	3.0	35.5	1.0	-68.4	-13.0	-55.4		
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:		Sony								
Project #:		14U17933								
Date:		08/14/14								
Test Engineer:		M. Zarin, E. Lee								
Configuration:		EUT with AC charge								
Mode:		LTE5 5MHz HARM								
Chamber		Pre-amplifier			Filter			Limit		
3m Chamber		T145 8449B			Filter 1			FCC Part 22		
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (826.5MHz)										
LTE5	1.653	-35.4	V	3.0	35.5	1.0	-70.0	-13.0	-57.0	
	2.479	-29.8	V	3.0	35.4	1.0	-64.2	-13.0	-51.2	
	3.306	-27.7	V	3.0	35.5	1.0	-62.2	-13.0	-49.2	
5MHz	1.653	-35.5	H	3.0	35.5	1.0	-70.1	-13.0	-57.1	
	2.479	-31.2	H	3.0	35.4	1.0	-65.6	-13.0	-52.6	
	3.306	-27.7	H	3.0	35.5	1.0	-62.2	-13.0	-49.2	
Mid Channel (836.5MHz)										
16QAM	1.673	-27.7	V	3.0	35.5	1.0	-62.3	-13.0	-49.3	
	2.509	-27.3	V	3.0	35.4	1.0	-61.7	-13.0	-48.7	
	3.346	-27.3	V	3.0	35.5	1.0	-61.8	-13.0	-48.8	
	1.673	-34.7	H	3.0	35.5	1.0	-69.2	-13.0	-56.2	
	2.509	-26.7	H	3.0	35.4	1.0	-61.1	-13.0	-48.1	
	3.346	-27.5	H	3.0	35.5	1.0	-62.0	-13.0	-49.0	
High Channel (846.5MHz)										
16QAM	1.693	-26.3	V	3.0	35.5	1.0	-60.8	-13.0	-47.8	
	2.539	-26.2	V	3.0	35.4	1.0	-60.7	-13.0	-47.7	
	3.386	-27.1	V	3.0	35.5	1.0	-61.6	-13.0	-48.6	
	1.693	-33.2	H	3.0	35.5	1.0	-67.7	-13.0	-54.7	
	2.539	-30.0	H	3.0	35.4	1.0	-64.4	-13.0	-51.4	
	3.386	-27.2	H	3.0	35.5	1.0	-61.7	-13.0	-48.7	
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 #:		14U17933								
Date:		08/14/14								
Test Engineer:		M. Zarin, E. Lee								
Configuration:		EUT with AC charge								
Mode:		LTE5 5MHz QPSK								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		T145 8449B			Filter 1		FCC Part 22			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Channel (826.5MHz)</b>										
LTE5	1.653	-35.7	V	3.0	35.5	1.0	-70.3	-13.0	-57.3	
	2.479	-29.6	V	3.0	35.4	1.0	-64.0	-13.0	-51.0	
	3.306	-27.6	V	3.0	35.5	1.0	-62.2	-13.0	-49.2	
5MHz	1.653	-35.9	H	3.0	35.5	1.0	-70.5	-13.0	-57.5	
	2.479	-30.9	H	3.0	35.4	1.0	-65.3	-13.0	-52.3	
	3.306	-27.9	H	3.0	35.5	1.0	-62.4	-13.0	-49.4	
QPSK	<b>Mid Channel (836.5MHz)</b>									
	1.673	-30.2	V	3.0	35.5	1.0	-64.7	-13.0	-51.7	
	2.509	-25.2	V	3.0	35.4	1.0	-59.6	-13.0	-46.6	
	3.346	-27.3	V	3.0	35.5	1.0	-61.8	-13.0	-48.8	
	1.673	-33.8	H	3.0	35.5	1.0	-68.3	-13.0	-55.3	
	2.509	-25.2	H	3.0	35.4	1.0	-59.6	-13.0	-46.6	
	3.346	-26.7	H	3.0	35.5	1.0	-61.2	-13.0	-48.2	
<b>High Channel (846.5MHz)</b>										
1.693	-26.1	V	3.0	35.5	1.0	-60.6	-13.0	-47.6		
2.539	-23.7	V	3.0	35.4	1.0	-58.1	-13.0	-45.1		
3.386	-27.2	V	3.0	35.5	1.0	-61.7	-13.0	-48.7		
1.693	-33.1	H	3.0	35.5	1.0	-67.6	-13.0	-54.6		
2.539	-28.5	H	3.0	35.4	1.0	-63.0	-13.0	-50.0		
3.386	-27.6	H	3.0	35.5	1.0	-62.1	-13.0	-49.1		
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 #:		14U17933								
Date:		08/14/14								
Test Engineer:		M. Zarin, E. Lee								
Configuration:		EUT with AC charge								
Mode:		LTE5 3MHz 16QAM								
Chamber		Pre-amplifier			Filter			Limit		
3m Chamber		T145 8449B			Filter 1			FCC Part 22		
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (825.5MHz)										
LTE5	1.651	-24.9	V	3.0	35.5	1.0	-59.4	-13.0	-46.4	
	2.477	-29.7	V	3.0	35.4	1.0	-64.1	-13.0	-51.1	
	3.302	-27.3	V	3.0	35.5	1.0	-61.8	-13.0	-48.8	
3MHz	1.651	-33.4	H	3.0	35.5	1.0	-67.9	-13.0	-54.9	
	2.477	-21.9	H	3.0	35.4	1.0	-56.3	-13.0	-43.3	
	3.302	-27.6	H	3.0	35.5	1.0	-62.1	-13.0	-49.1	
Mid Channel (836.5MHz)										
16QAM	1.673	-25.1	V	3.0	35.5	1.0	-59.7	-13.0	-46.7	
	2.510	-21.5	V	3.0	35.4	1.0	-55.9	-13.0	-42.9	
	3.346	-27.5	V	3.0	35.5	1.0	-62.0	-13.0	-49.0	
	1.673	-31.2	H	3.0	35.5	1.0	-65.8	-13.0	-52.8	
	2.510	-27.8	H	3.0	35.4	1.0	-62.3	-13.0	-49.3	
	3.346	-27.7	H	3.0	35.5	1.0	-62.2	-13.0	-49.2	
High Channel (847.5MHz)										
	1.695	-24.1	V	3.0	35.5	1.0	-58.6	-13.0	-45.6	
	2.453	-23.4	V	3.0	35.4	1.0	-57.8	-13.0	-44.8	
	3.390	-27.5	V	3.0	35.5	1.0	-62.0	-13.0	-49.0	
	1.695	-33.3	H	3.0	35.5	1.0	-67.8	-13.0	-54.8	
	2.453	-26.4	H	3.0	35.4	1.0	-60.8	-13.0	-47.8	
	3.390	-27.6	H	3.0	35.5	1.0	-62.1	-13.0	-49.1	
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 #:		14U17933								
Date:		08/14/14								
Test Engineer:		M. Zarin, E. Lee								
Configuration:		EUT with AC charge								
Mode:		LTE5 3MHz QPSK								
<div style="border: 1px solid black; padding: 2px; display: inline-block;">Chamber</div> 3m Chamber		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Pre-amplifier</div> T145 8449B			<div style="border: 1px solid black; padding: 2px; display: inline-block;">Filter</div> Filter 1		<div style="border: 1px solid black; padding: 2px; display: inline-block;">Limit</div> FCC Part 22			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (825.5MHz)										
LTE5	1.651	-24.4	V	3.0	35.5	1.0	-58.9	-13.0	-45.9	
	2.477	-29.8	V	3.0	35.4	1.0	-64.2	-13.0	-51.2	
	3.302	-27.5	V	3.0	35.5	1.0	-62.0	-13.0	-49.0	
3MHz	1.651	-32.3	H	3.0	35.5	1.0	-66.8	-13.0	-53.8	
	2.477	-21.5	H	3.0	35.4	1.0	-55.9	-13.0	-42.9	
	3.302	-27.7	H	3.0	35.5	1.0	-62.2	-13.0	-49.2	
Mid Channel (836.5MHz)										
QPSK	1.673	-32.0	V	3.0	35.5	1.0	-66.5	-13.0	-53.5	
	2.510	-25.4	V	3.0	35.4	1.0	-59.8	-13.0	-46.8	
	3.346	-27.2	V	3.0	35.5	1.0	-61.7	-13.0	-48.7	
QPSK	1.673	-30.7	H	3.0	35.5	1.0	-65.2	-13.0	-52.2	
	2.510	-26.7	H	3.0	35.4	1.0	-61.2	-13.0	-48.2	
	3.346	-27.6	H	3.0	35.5	1.0	-62.1	-13.0	-49.1	
High Channel (847.5MHz)										
QPSK	1.695	-26.5	V	3.0	35.5	1.0	-61.0	-13.0	-48.0	
	2.453	-29.9	V	3.0	35.4	1.0	-64.4	-13.0	-51.4	
	3.390	-27.5	V	3.0	35.5	1.0	-62.0	-13.0	-49.0	
QPSK	1.695	-32.8	H	3.0	35.5	1.0	-67.3	-13.0	-54.3	
	2.453	-26.5	H	3.0	35.4	1.0	-60.9	-13.0	-47.9	
	3.390	-27.3	H	3.0	35.5	1.0	-61.8	-13.0	-48.8	
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 #:		14U17933								
Date:		08/14/14								
Test Engineer:		M. Zarin, E. Lee								
Configuration:		EUT with AC charge								
Mode:		LTE5 1.4MHz 16QAM								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		T145 8449B			Filter 1		FCC Part 22			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (824.7MHz)										
LTE5	1.649	-24.8	V	3.0	35.5	1.0	-59.3	-13.0	-46.3	
	2.474	-23.9	V	3.0	35.4	1.0	-58.4	-13.0	-45.4	
	3.299	-27.3	V	3.0	35.5	1.0	-61.8	-13.0	-48.8	
1.4MHz	1.649	-32.5	H	3.0	35.5	1.0	-67.1	-13.0	-54.1	
	2.474	-30.0	H	3.0	35.4	1.0	-64.5	-13.0	-51.5	
	3.299	-27.5	H	3.0	35.5	1.0	-62.0	-13.0	-49.0	
Mid Channel (836.5MHz)										
16QAM	1.673	-30.0	V	3.0	35.5	1.0	-64.6	-13.0	-51.6	
	2.510	-26.8	V	3.0	35.4	1.0	-61.2	-13.0	-48.2	
	3.346	-27.4	V	3.0	35.5	1.0	-61.9	-13.0	-48.9	
	1.673	-34.8	H	3.0	35.5	1.0	-69.3	-13.0	-56.3	
	2.510	-29.6	H	3.0	35.4	1.0	-64.0	-13.0	-51.0	
	3.346	-27.5	H	3.0	35.5	1.0	-62.0	-13.0	-49.0	
High Channel (848.3MHz)										
	1.697	-30.2	V	3.0	35.5	1.0	-64.7	-13.0	-51.7	
	2.545	-27.3	V	3.0	35.4	1.0	-61.7	-13.0	-48.7	
	3.393	-27.3	V	3.0	35.5	1.0	-61.8	-13.0	-48.8	
	1.697	-33.3	H	3.0	35.5	1.0	-67.8	-13.0	-54.8	
	2.545	-30.3	H	3.0	35.4	1.0	-64.7	-13.0	-51.7	
	3.393	-27.6	H	3.0	35.5	1.0	-62.1	-13.0	-49.1	
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 #:		14U17933								
Date:		08/14/14								
Test Engineer:		M. Zarin, E. Lee								
Configuration:		EUT with AC charge								
Mode:		LTE5 1.4MHz QPSK								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		T145 8449B			Filter 1		FCC Part 22			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (824.7MHz)										
LTE5	1.649	-26.1	V	3.0	35.5	1.0	-60.6	-13.0	-47.6	
	2.474	-26.3	V	3.0	35.4	1.0	-60.7	-13.0	-47.7	
	3.299	-27.3	V	3.0	35.5	1.0	-61.8	-13.0	-48.8	
1.4MHz	1.649	-32.0	H	3.0	35.5	1.0	-66.5	-13.0	-53.5	
	2.474	-30.8	H	3.0	35.4	1.0	-65.2	-13.0	-52.2	
	3.299	-27.5	H	3.0	35.5	1.0	-62.1	-13.0	-49.1	
QPSK	Mid Channel (836.5MHz)									
	1.673	-29.2	V	3.0	35.5	1.0	-63.8	-13.0	-50.8	
	2.510	-26.0	V	3.0	35.4	1.0	-60.4	-13.0	-47.4	
	3.346	-27.5	V	3.0	35.5	1.0	-62.0	-13.0	-49.0	
	1.673	-33.2	H	3.0	35.5	1.0	-67.7	-13.0	-54.7	
	2.510	-26.6	H	3.0	35.4	1.0	-61.0	-13.0	-48.0	
	3.346	-27.7	H	3.0	35.5	1.0	-62.3	-13.0	-49.3	
High Channel (848.3MHz)										
	1.697	-29.6	V	3.0	35.5	1.0	-64.1	-13.0	-51.1	
	2.545	-29.0	V	3.0	35.4	1.0	-63.4	-13.0	-50.4	
	3.393	-27.5	V	3.0	35.5	1.0	-62.0	-13.0	-49.0	
	1.697	-32.1	H	3.0	35.5	1.0	-66.7	-13.0	-53.7	
	2.545	-28.8	H	3.0	35.4	1.0	-63.2	-13.0	-50.2	
	3.393	-27.5	H	3.0	35.5	1.0	-62.0	-13.0	-49.0	
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:		Sony								
Project #:		14U17933								
Date:		08/14/14								
Test Engineer:		G. Chan, L. Lee								
Configuration:		X-Pos EUT w/ AC charger								
Mode:		LTE4 20MHz 16QAM								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		T34 8449B			Filter 1		Part 27			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 20MHz 16QAM	Low Ch, 1720.0MHz									
	3.440	-30.0	V	3.0	35.7	1.0	-64.6	-13.0	-51.6	
	5.160	-26.6	V	3.0	34.7	1.0	-60.3	-13.0	-47.3	
	6.880	-23.7	V	3.0	34.8	1.0	-57.5	-13.0	-44.5	
	3.440	-30.6	H	3.0	35.7	1.0	-65.2	-13.0	-52.2	
	5.160	-24.9	H	3.0	34.7	1.0	-58.7	-13.0	-45.7	
	6.880	-22.5	H	3.0	34.8	1.0	-56.3	-13.0	-43.3	
	Mid Ch, 1732.5MHz									
	3.465	-29.8	V	3.0	35.6	1.0	-64.4	-13.0	-51.4	
	5.198	-25.4	V	3.0	34.7	1.0	-59.1	-13.0	-46.1	
	6.930	-22.7	V	3.0	34.8	1.0	-56.6	-13.0	-43.6	
	3.465	-31.4	H	3.0	35.6	1.0	-66.0	-13.0	-53.0	
	5.198	-24.9	H	3.0	34.7	1.0	-58.6	-13.0	-45.6	
	6.930	-22.1	H	3.0	34.8	1.0	-55.9	-13.0	-42.9	
	High Ch, 1745.0MHz									
	3.490	-30.6	V	3.0	35.6	1.0	-65.3	-13.0	-52.3	
	5.235	-25.7	V	3.0	34.7	1.0	-59.4	-13.0	-46.4	
	6.980	-22.8	V	3.0	34.8	1.0	-56.6	-13.0	-43.6	
3.490	-30.9	H	3.0	35.6	1.0	-65.5	-13.0	-52.5		
5.235	-26.9	H	3.0	34.7	1.0	-60.6	-13.0	-47.6		
6.980	-21.6	H	3.0	34.8	1.0	-55.4	-13.0	-42.4		
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:		Sony								
Project #:		14U17933								
Date:		08/14/14								
Test Engineer:		G. Chan, L. Lee								
Configuration:		X-Pos EUT w/ AC charger								
Mode:		LTE4 20MHz QPSK								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		T34 8449B			Filter 1		Part 27			
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, 1720.0MHz									
	3.440	-29.9	V	3.0	35.7	1.0	-64.6	-13.0	-51.6	
	5.160	-25.7	V	3.0	34.7	1.0	-59.4	-13.0	-46.4	
	6.880	-23.7	V	3.0	34.8	1.0	-57.5	-13.0	-44.5	
20MHz	3.440	-30.4	H	3.0	35.7	1.0	-65.1	-13.0	-52.1	
	5.160	-23.7	H	3.0	34.7	1.0	-57.4	-13.0	-44.4	
	6.880	-22.6	H	3.0	34.8	1.0	-56.4	-13.0	-43.4	
QPSK	Mid Ch, 1732.5MHz									
	3.465	-29.3	V	3.0	35.6	1.0	-63.9	-13.0	-50.9	
	5.198	-25.2	V	3.0	34.7	1.0	-58.9	-13.0	-45.9	
	6.930	-22.9	V	3.0	34.8	1.0	-56.7	-13.0	-43.7	
	3.465	-30.5	H	3.0	35.6	1.0	-65.1	-13.0	-52.1	
	5.198	-23.7	H	3.0	34.7	1.0	-57.4	-13.0	-44.4	
	6.930	-22.0	H	3.0	34.8	1.0	-55.9	-13.0	-42.9	
	High Ch, 1745.0MHz									
	3.490	-29.8	V	3.0	35.6	1.0	-64.5	-13.0	-51.5	
	5.235	-24.3	V	3.0	34.7	1.0	-58.0	-13.0	-45.0	
	6.980	-22.7	V	3.0	34.8	1.0	-56.6	-13.0	-43.6	
	3.490	-31.0	H	3.0	35.6	1.0	-65.6	-13.0	-52.6	
	5.235	-26.6	H	3.0	34.7	1.0	-60.3	-13.0	-47.3	
	6.980	-21.7	H	3.0	34.8	1.0	-55.6	-13.0	-42.6	
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:		Sony									
Project #:		14U17933									
Date:		08/14/14									
Test Engineer:		G. Chan, L. Lee									
Configuration:		X-Pos EUT w/ AC charger									
Mode:		LTE4 15MHz 16QAM									
Chamber		Pre-amplifier			Filter		Limit				
3m Chamber		T34 8449B			Filter 1		Part 27				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
LTE4 15MHz 16QAM	Low Ch, 1717.50MHz										
		3.435	-31.0	V	3.0	35.7	1.0	-65.7	-13.0	-52.7	
		5.153	-26.1	V	3.0	34.7	1.0	-59.8	-13.0	-46.8	
		6.870	-23.5	V	3.0	34.8	1.0	-57.3	-13.0	-44.3	
		3.435	-30.7	H	3.0	35.7	1.0	-65.3	-13.0	-52.3	
		5.153	-26.1	H	3.0	34.7	1.0	-59.8	-13.0	-46.8	
		6.870	-22.7	H	3.0	34.8	1.0	-56.5	-13.0	-43.5	
		Mid Ch, 1732.5MHz									
		3.465	-31.0	V	3.0	35.6	1.0	-65.7	-13.0	-52.7	
		5.198	-21.0	V	3.0	34.7	1.0	-54.7	-13.0	-41.7	
		6.930	-23.2	V	3.0	34.8	1.0	-57.0	-13.0	-44.0	
		3.465	-29.4	H	3.0	35.6	1.0	-64.0	-13.0	-51.0	
	5.198	-26.8	H	3.0	34.7	1.0	-60.5	-13.0	-47.5		
	6.930	-22.0	H	3.0	34.8	1.0	-55.9	-13.0	-42.9		
	High Ch, 1747.5MHz										
	3.495	-31.4	V	3.0	35.6	1.0	-66.0	-13.0	-53.0		
	5.242	-21.8	V	3.0	34.7	1.0	-55.5	-13.0	-42.5		
	6.990	-22.5	V	3.0	34.8	1.0	-56.3	-13.0	-43.3		
	3.495	-31.6	H	3.0	35.6	1.0	-66.2	-13.0	-53.2		
	5.242	-23.6	H	3.0	34.7	1.0	-57.3	-13.0	-44.3		
	6.990	-21.7	H	3.0	34.8	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:		Sony									
Project #:		14U17933									
Date:		08/14/14									
Test Engineer:		G. Chan, L. Lee									
Configuration:		X-Pos EUT w/ AC charger									
Mode:		LTE4 15MHz QPSK									
Chamber		Pre-amplifier			Filter		Limit				
3m Chamber		T34 8449B			Filter 1		Part 27				
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	
LTE4 15MHz QPSK	Low Ch, 1717.50MHz										
		3.435	-31.1	V	3.0	35.7	1.0	-65.8	-13.0	-52.8	
		5.153	-24.9	V	3.0	34.7	1.0	-58.6	-13.0	-45.6	
		6.870	-23.6	V	3.0	34.8	1.0	-57.4	-13.0	-44.4	
		3.435	-30.6	H	3.0	35.7	1.0	-65.2	-13.0	-52.2	
		5.153	-24.7	H	3.0	34.7	1.0	-58.4	-13.0	-45.4	
		6.870	-22.7	H	3.0	34.8	1.0	-56.5	-13.0	-43.5	
	Mid Ch, 1732.5MHz										
		3.465	-30.6	V	3.0	35.6	1.0	-65.2	-13.0	-52.2	
		5.198	-20.8	V	3.0	34.7	1.0	-54.5	-13.0	-41.5	
		6.930	-22.7	V	3.0	34.8	1.0	-56.5	-13.0	-43.5	
		3.465	-28.8	H	3.0	35.6	1.0	-63.4	-13.0	-50.4	
		5.198	-26.7	H	3.0	34.7	1.0	-60.4	-13.0	-47.4	
		6.930	-23.9	H	3.0	34.8	1.0	-57.7	-13.0	-44.7	
	High Ch, 1747.5MHz										
	3.495	-31.4	V	3.0	35.6	1.0	-66.0	-13.0	-53.0		
	5.242	-21.5	V	3.0	34.7	1.0	-55.2	-13.0	-42.2		
	6.990	-22.7	V	3.0	34.8	1.0	-56.6	-13.0	-43.6		
	3.495	-31.6	H	3.0	35.6	1.0	-66.2	-13.0	-53.2		
	5.242	-22.5	H	3.0	34.7	1.0	-56.2	-13.0	-43.2		
	6.990	-21.5	H	3.0	34.8	1.0	-55.3	-13.0	-42.3		
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:		Sony								
Project #:		14U17933								
Date:		08/14/14								
Test Engineer:		G. Chan, L. Lee								
Configuration:		X-Pos EUT w/ AC charger								
Mode:		LTE4 10MHz 16QAM								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		T34 8449B			Filter 1		Part 27			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 10MHz 16QAM	Low Ch, 1715.0MHz									
	3.430	-25.7	V	3.0	35.7	1.0	-60.4	-13.0	-47.4	
	5.145	-24.4	V	3.0	34.7	1.0	-58.1	-13.0	-45.1	
	6.860	-23.5	V	3.0	34.8	1.0	-57.3	-13.0	-44.3	
	3.430	-29.4	H	3.0	35.7	1.0	-64.1	-13.0	-51.1	
	5.145	-23.6	H	3.0	34.7	1.0	-57.3	-13.0	-44.3	
	6.860	-22.8	H	3.0	34.8	1.0	-56.6	-13.0	-43.6	
	Mid Ch, 1732.5MHz									
	3.465	-30.8	V	3.0	35.6	1.0	-65.4	-13.0	-52.4	
	5.198	-23.9	V	3.0	34.7	1.0	-57.6	-13.0	-44.6	
	6.930	-23.2	V	3.0	34.8	1.0	-57.0	-13.0	-44.0	
	3.465	-28.2	H	3.0	35.6	1.0	-62.9	-13.0	-49.9	
	5.198	-27.0	H	3.0	34.7	1.0	-60.7	-13.0	-47.7	
	6.930	-21.5	H	3.0	34.8	1.0	-55.3	-13.0	-42.3	
	High Ch, 1750.0MHz									
	3.500	-30.5	V	3.0	35.6	1.0	-65.1	-13.0	-52.1	
	5.250	-19.6	V	3.0	34.7	1.0	-53.3	-13.0	-40.3	
	7.000	-22.5	V	3.0	34.8	1.0	-56.4	-13.0	-43.4	
3.500	-31.6	H	3.0	35.6	1.0	-66.2	-13.0	-53.2		
5.250	-17.6	H	3.0	34.7	1.0	-51.3	-13.0	-38.3		
7.000	-21.4	H	3.0	34.8	1.0	-55.2	-13.0	-42.2		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/14/14								
<b>Test Engineer:</b>		G. Chan, L. Lee								
<b>Configuration:</b>		X-Pos EUT w/ AC charger								
<b>Mode:</b>		LTE4 10MHz QPSK								
<b>Chamber</b>		<b>Pre-amplifier</b>			<b>Filter</b>		<b>Limit</b>			
3m Chamber		T34 8449B			Filter 1		Part 27			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 10MHz QPSK	<b>Low Ch, 1715.0MHz</b>									
	3.430	-25.6	V	3.0	35.7	1.0	-60.2	-13.0	-47.2	
	5.145	-23.4	V	3.0	34.7	1.0	-57.1	-13.0	-44.1	
	6.860	-23.6	V	3.0	34.8	1.0	-57.5	-13.0	-44.5	
	3.430	-29.2	H	3.0	35.7	1.0	-63.9	-13.0	-50.9	
	5.145	-22.1	H	3.0	34.7	1.0	-55.8	-13.0	-42.8	
	6.860	-23.0	H	3.0	34.8	1.0	-56.8	-13.0	-43.8	
	<b>Mid Ch, 1732.5MHz</b>									
	3.465	-30.9	V	3.0	35.6	1.0	-65.6	-13.0	-52.6	
	5.198	-23.9	V	3.0	34.7	1.0	-57.6	-13.0	-44.6	
	6.930	-23.0	V	3.0	34.8	1.0	-56.9	-13.0	-43.9	
	3.465	-27.7	H	3.0	35.6	1.0	-62.3	-13.0	-49.3	
	5.198	-27.1	H	3.0	34.7	1.0	-60.8	-13.0	-47.8	
	6.930	-22.2	H	3.0	34.8	1.0	-56.0	-13.0	-43.0	
	<b>High Ch, 1750.0MHz</b>									
	3.500	-30.1	V	3.0	35.6	1.0	-64.7	-13.0	-51.7	
	5.250	-18.3	V	3.0	34.7	1.0	-52.0	-13.0	-39.0	
	7.000	-22.4	V	3.0	34.8	1.0	-56.2	-13.0	-43.2	
3.500	-31.4	H	3.0	35.6	1.0	-66.0	-13.0	-53.0		
5.250	-16.6	H	3.0	34.7	1.0	-50.3	-13.0	-37.3		
7.000	-21.7	H	3.0	34.8	1.0	-55.6	-13.0	-42.6		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/14/14								
<b>Test Engineer:</b>		G. Chan, L. Lee								
<b>Configuration:</b>		X-Pos EUT w/ AC charger								
<b>Mode:</b>		LTE4 5MHz QPSK								
<b>Chamber</b>		<b>Pre-amplifier</b>			<b>Filter</b>		<b>Limit</b>			
3m Chamber		T34 8449B			Filter 1		Part 27			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE4 5MHz 16QAM	Low Ch, 1712.5MHz									
	3.425	-27.4	V	3.0	35.7	1.0	-62.0	-13.0	-49.0	
	5.138	-25.2	V	3.0	34.7	1.0	-59.0	-13.0	-46.0	
	6.850	-23.4	V	3.0	34.8	1.0	-57.2	-13.0	-44.2	
	3.425	-30.3	H	3.0	35.7	1.0	-65.0	-13.0	-52.0	
	5.138	-25.5	H	3.0	34.7	1.0	-59.2	-13.0	-46.2	
	6.850	-22.7	H	3.0	34.8	1.0	-56.6	-13.0	-43.6	
	Mid Ch, 1732.5MHz									
	3.465	-29.8	V	3.0	35.6	1.0	-64.4	-13.0	-51.4	
	5.198	-25.6	V	3.0	34.7	1.0	-59.3	-13.0	-46.3	
	6.930	-22.8	V	3.0	34.8	1.0	-56.7	-13.0	-43.7	
	3.465	-31.4	H	3.0	35.6	1.0	-66.0	-13.0	-53.0	
5.198	-24.1	H	3.0	34.7	1.0	-57.8	-13.0	-44.8		
6.930	-22.3	H	3.0	34.8	1.0	-56.1	-13.0	-43.1		
High Ch, 1752.5MHz										
3.505	-29.6	V	3.0	35.6	1.0	-64.2	-13.0	-51.2		
5.258	-18.8	V	3.0	34.7	1.0	-52.5	-13.0	-39.5		
7.010	-21.8	V	3.0	34.8	1.0	-55.7	-13.0	-42.7		
3.505	-31.4	H	3.0	35.6	1.0	-66.0	-13.0	-53.0		
5.258	-15.1	H	3.0	34.7	1.0	-48.8	-13.0	-35.8		
7.010	-21.4	H	3.0	34.8	1.0	-55.2	-13.0	-42.2		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/14/14								
<b>Test Engineer:</b>		G. Chan, L. Lee								
<b>Configuration:</b>		X-Pos EUT w/ AC charger								
<b>Mode:</b>		LTE4 5MHz QPSK								
<b>Chamber</b>		<b>Pre-amplifier</b>			<b>Filter</b>		<b>Limit</b>			
3m Chamber		T34 8449B			Filter 1		Part 27			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	<b>Low Ch, 1712.5MHz</b>									
LTE4	3.425	-26.6	V	3.0	35.7	1.0	-61.3	-13.0	-48.3	
	5.138	-23.8	V	3.0	34.7	1.0	-57.5	-13.0	-44.5	
5MHz	6.850	-23.5	V	3.0	34.8	1.0	-57.3	-13.0	-44.3	
	3.425	-30.1	H	3.0	35.7	1.0	-64.8	-13.0	-51.8	
	5.138	-24.7	H	3.0	34.7	1.0	-58.4	-13.0	-45.4	
QPSK	6.850	-22.6	H	3.0	34.8	1.0	-56.5	-13.0	-43.5	
	<b>Mid Ch, 1732.5MHz</b>									
	3.465	-29.4	V	3.0	35.6	1.0	-64.0	-13.0	-51.0	
	5.198	-25.3	V	3.0	34.7	1.0	-59.0	-13.0	-46.0	
	6.930	-23.0	V	3.0	34.8	1.0	-56.8	-13.0	-43.8	
	3.465	-31.3	H	3.0	35.6	1.0	-66.0	-13.0	-53.0	
	5.198	-25.7	H	3.0	34.7	1.0	-59.3	-13.0	-46.3	
	6.930	-21.9	H	3.0	34.8	1.0	-55.8	-13.0	-42.8	
	<b>High Ch, 1752.5MHz</b>									
	3.505	-29.4	V	3.0	35.6	1.0	-64.0	-13.0	-51.0	
	5.258	-18.3	V	3.0	34.7	1.0	-52.0	-13.0	-39.0	
	7.010	-21.0	V	3.0	34.8	1.0	-54.8	-13.0	-41.8	
	3.505	-31.0	H	3.0	35.6	1.0	-65.6	-13.0	-52.6	
	5.258	-14.1	H	3.0	34.7	1.0	-47.8	-13.0	-34.8	
	7.010	-21.5	H	3.0	34.8	1.0	-55.3	-13.0	-42.3	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/14/14								
<b>Test Engineer:</b>		O. Stoelting								
<b>Configuration:</b>		X Position, EUT and AC Adapter								
<b>Mode:</b>		TX, LTE band 4, 3MHz BW, 16 QAM								
<b>Chamber</b>		<b>Pre-amplifier</b>			<b>Filter</b>		<b>Limit</b>			
3m Chamber		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
	<b>Low Ch, (1711.5 MHz)</b>									
	3.423	-25.6	V	3.0	30.4	1.0	-55.1	-13.0	-42.1	
	5.135	-23.1	V	3.0	28.8	1.0	-50.9	-13.0	-37.9	
	6.846	-21.2	V	3.0	27.1	1.0	-47.3	-13.0	-34.3	
3MHz	3.423	-22.8	H	3.0	30.4	1.0	-52.2	-13.0	-39.2	
	5.135	-19.6	H	3.0	28.8	1.0	-47.4	-13.0	-34.4	
16QAM	6.846	-20.1	H	3.0	27.1	1.0	-46.3	-13.0	-33.3	
	<b>Mid Ch, (1732.5 MHz)</b>									
	3.465	-28.6	V	3.0	30.4	1.0	-58.0	-13.0	-45.0	
	5.198	-24.1	V	3.0	28.7	1.0	-51.8	-13.0	-38.8	
	6.930	-20.3	V	3.0	27.1	1.0	-46.4	-13.0	-33.4	
	3.465	-28.9	H	3.0	30.4	1.0	-58.3	-13.0	-45.3	
	5.198	-18.7	H	3.0	28.7	1.0	-46.4	-13.0	-33.4	
	6.930	-19.4	H	3.0	27.1	1.0	-45.5	-13.0	-32.5	
	<b>High Ch, (1753.5 MHz)</b>									
	3.507	-28.2	V	3.0	30.4	1.0	-57.5	-13.0	-44.5	
	5.261	-23.7	V	3.0	28.6	1.0	-51.3	-13.0	-38.3	
	7.014	-20.2	V	3.0	27.0	1.0	-46.1	-13.0	-33.1	
	3.507	-25.6	H	3.0	30.4	1.0	-55.0	-13.0	-42.0	
	5.261	-20.5	H	3.0	28.6	1.0	-48.2	-13.0	-35.2	
	7.014	-18.9	H	3.0	27.0	1.0	-44.9	-13.0	-31.9	
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Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/14/14								
<b>Test Engineer:</b>		O. Stoelting								
<b>Configuration:</b>		X Position, EUT and AC Adapter								
<b>Mode:</b>		TX, LTE band 4, 3MHz BW, QPSK								
<b>Chamber</b>		<b>Pre-amplifier</b>		<b>Filter</b>		<b>Limit</b>				
3m Chamber		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
	<b>Low Ch, (1711.5 MHz)</b>									
LTE4	3.423	-25.3	V	3.0	30.4	1.0	-54.8	-13.0	-41.8	
	5.135	-22.7	V	3.0	28.8	1.0	-50.5	-13.0	-37.5	
3MHz	6.846	-21.0	V	3.0	27.1	1.0	-47.2	-13.0	-34.2	
	3.423	-22.8	H	3.0	30.4	1.0	-52.3	-13.0	-39.3	
	5.135	-19.5	H	3.0	28.8	1.0	-47.3	-13.0	-34.3	
QPSK	6.846	-20.2	H	3.0	27.1	1.0	-46.3	-13.0	-33.3	
	<b>Mid Ch, (1732.5 MHz)</b>									
	3.465	-28.4	V	3.0	30.4	1.0	-57.8	-13.0	-44.8	
	5.198	-23.8	V	3.0	28.7	1.0	-51.5	-13.0	-38.5	
	6.930	-20.5	V	3.0	27.1	1.0	-46.5	-13.0	-33.5	
	3.465	-28.8	H	3.0	30.4	1.0	-58.2	-13.0	-45.2	
	5.198	-18.8	H	3.0	28.7	1.0	-46.5	-13.0	-33.5	
	6.930	-19.5	H	3.0	27.1	1.0	-45.6	-13.0	-32.6	
	<b>High Ch, (1753.5 MHz)</b>									
	3.507	-28.1	V	3.0	30.4	1.0	-57.4	-13.0	-44.4	
	5.261	-23.8	V	3.0	28.6	1.0	-51.4	-13.0	-38.4	
	7.014	-20.0	V	3.0	27.0	1.0	-46.0	-13.0	-33.0	
	3.507	-25.5	H	3.0	30.4	1.0	-54.9	-13.0	-41.9	
	5.261	-20.2	H	3.0	28.6	1.0	-47.8	-13.0	-34.8	
	7.014	-18.7	H	3.0	27.0	1.0	-44.7	-13.0	-31.7	
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/14/14								
<b>Test Engineer:</b>		O. Stoelting								
<b>Configuration:</b>		X Position, EUT and AC Adapter								
<b>Mode:</b>		TX, LTE band 4, 1.4MHz BW, 16 QAM								
<b>Chamber</b>		<b>Pre-amplifier</b>		<b>Filter</b>		<b>Limit</b>				
3m Chamber		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
LTE4 1.4MHz 16QAM	<b>Low Ch, (1710.7 MHz)</b>									
	3.421	-23.5	V	3.0	30.4	1.0	-52.9	-13.0	-39.9	
	5.132	-25.4	V	3.0	28.8	1.0	-53.1	-13.0	-40.1	
	6.843	-21.0	V	3.0	27.1	1.0	-47.2	-13.0	-34.2	
	3.421	-27.8	H	3.0	30.4	1.0	-57.2	-13.0	-44.2	
	5.132	-22.7	H	3.0	28.8	1.0	-50.5	-13.0	-37.5	
	6.843	-20.1	H	3.0	27.1	1.0	-46.2	-13.0	-33.2	
	<b>Mid Ch, (1732.5 MHz)</b>									
	3.465	-19.1	V	3.0	30.4	1.0	-48.5	-13.0	-35.5	
	5.198	-24.8	V	3.0	28.7	1.0	-52.5	-13.0	-39.5	
	6.930	-21.9	V	3.0	27.1	1.0	-47.9	-13.0	-34.9	
	3.465	-19.4	H	3.0	30.4	1.0	-48.8	-13.0	-35.8	
	5.198	-23.8	H	3.0	28.7	1.0	-51.5	-13.0	-38.5	
	6.930	-19.3	H	3.0	27.1	1.0	-45.4	-13.0	-32.4	
	<b>High Ch, (1754.3 MHz)</b>									
	3.509	-28.1	V	3.0	30.4	1.0	-57.5	-13.0	-44.5	
	5.263	-21.0	V	3.0	28.6	1.0	-48.7	-13.0	-35.7	
	7.017	-20.0	V	3.0	27.0	1.0	-46.0	-13.0	-33.0	
3.509	-26.9	H	3.0	30.4	1.0	-56.2	-13.0	-43.2		
5.263	-22.6	H	3.0	28.6	1.0	-50.2	-13.0	-37.2		
7.017	-19.1	H	3.0	27.0	1.0	-45.1	-13.0	-32.1		
Rev. 03.03.09										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement											
<b>Company:</b>		Sony									
<b>Project #:</b>		14U17933									
<b>Date:</b>		08/14/14									
<b>Test Engineer:</b>		O. Stoelting									
<b>Configuration:</b>		X Position, EUT and AC Adapter									
<b>Mode:</b>		TX, LTE band 4, 1.4MHz BW, QPSK									
<b>Chamber</b>		<b>Pre-amplifier</b>		<b>Filter</b>		<b>Limit</b>					
3m Chamber		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	
1.4MHz QPSK	Low Ch, (1710.7 MHz)										
	LTE4	3.421	-23.2	V	3.0	30.4	1.0	-52.6	-13.0	-39.6	
		5.132	-25.2	V	3.0	28.8	1.0	-53.0	-13.0	-40.0	
		6.843	-21.1	V	3.0	27.1	1.0	-47.2	-13.0	-34.2	
		3.421	-27.8	H	3.0	30.4	1.0	-57.3	-13.0	-44.3	
		5.132	-22.2	H	3.0	28.8	1.0	-50.0	-13.0	-37.0	
		6.843	-20.1	H	3.0	27.1	1.0	-46.3	-13.0	-33.3	
		Mid Ch, (1732.5 MHz)									
		3.465	-19.0	V	3.0	30.4	1.0	-48.4	-13.0	-35.4	
		5.198	-24.7	V	3.0	28.7	1.0	-52.4	-13.0	-39.4	
		6.930	-20.2	V	3.0	27.1	1.0	-46.3	-13.0	-33.3	
		3.465	-19.6	H	3.0	30.4	1.0	-49.0	-13.0	-36.0	
	5.198	-23.7	H	3.0	28.7	1.0	-51.4	-13.0	-38.4		
	6.930	-19.4	H	3.0	27.1	1.0	-45.5	-13.0	-32.5		
	High Ch, (1754.3 MHz)										
	3.509	-27.5	V	3.0	30.4	1.0	-56.9	-13.0	-43.9		
	5.263	-21.4	V	3.0	28.6	1.0	-49.0	-13.0	-36.0		
	7.017	-20.2	V	3.0	27.0	1.0	-46.2	-13.0	-33.2		
	3.509	-26.5	H	3.0	30.4	1.0	-55.8	-13.0	-42.8		
	5.263	-22.9	H	3.0	28.6	1.0	-50.5	-13.0	-37.5		
	7.017	-19.2	H	3.0	27.0	1.0	-45.2	-13.0	-32.2		
Rev. 03.03.09											

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b> Sony <b>Project #:</b> 14U17933 <b>Date:</b> 08/14/14 <b>Test Engineer:</b> O. Stoelting <b>Configuration:</b> X Position, EUT and AC Adapter <b>Mode:</b> LTE2 20M 16QAM HARM										
		Chamber	Pre-amplifier		Filter		Limit			
		3m Chamber	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
	<b>Low Ch, 1860MHz</b>									
	3.720	-27.8	V	3.0	35.4	1.0	-62.2	-13.0	-49.2	
	5.580	-19.2	V	3.0	34.7	1.0	-52.9	-13.0	-39.9	
	7.440	-21.9	V	3.0	34.9	1.0	-55.8	-13.0	-42.8	
20MHz	3.720	-27.7	H	3.0	35.4	1.0	-62.1	-13.0	-49.1	
	5.580	-21.7	H	3.0	34.7	1.0	-55.4	-13.0	-42.4	
16QAM	7.440	-20.3	H	3.0	34.9	1.0	-54.2	-13.0	-41.2	
	<b>Mid Ch, 1880MHz</b>									
	3.760	-27.5	V	3.0	35.3	1.0	-61.9	-13.0	-48.9	
	5.640	-24.5	V	3.0	34.7	1.0	-58.2	-13.0	-45.2	
	7.520	-21.8	V	3.0	34.9	1.0	-55.7	-13.0	-42.7	
	3.760	-27.4	H	3.0	35.3	1.0	-61.7	-13.0	-48.7	
	5.640	-23.6	H	3.0	34.7	1.0	-57.3	-13.0	-44.3	
	7.520	-20.1	H	3.0	34.9	1.0	-54.0	-13.0	-41.0	
	<b>High Ch, 1900MHz</b>									
	3.800	-27.6	V	3.0	35.3	1.0	-61.9	-13.0	-48.9	
	5.700	-22.2	V	3.0	34.7	1.0	-55.9	-13.0	-42.9	
	7.600	-21.9	V	3.0	34.9	1.0	-55.8	-13.0	-42.8	
	3.800	-26.1	H	3.0	35.3	1.0	-60.4	-13.0	-47.4	
	5.700	-22.7	H	3.0	34.7	1.0	-56.5	-13.0	-43.5	
	7.600	-20.3	H	3.0	34.9	1.0	-54.2	-13.0	-41.2	
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:		Sony								
Project #:		14U17933								
Date:		08/14/14								
Test Engineer:		O. Stoelting								
Configuration:		X Position, EUT and AC Adapter								
Mode:		LTE2 20M QPSK HARM								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		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
	<b>Low Ch, 1860MHz</b>									
	3.720	-27.8	V	3.0	35.4	1.0	-62.2	-13.0	-49.2	
	5.580	-17.9	V	3.0	34.7	1.0	-51.7	-13.0	-38.7	
	7.440	-21.9	V	3.0	34.9	1.0	-55.8	-13.0	-42.8	
20MHz	3.720	-27.4	H	3.0	35.4	1.0	-61.8	-13.0	-48.8	
	5.580	-21.0	H	3.0	34.7	1.0	-54.8	-13.0	-41.8	
QPSK	7.440	-20.2	H	3.0	34.9	1.0	-54.1	-13.0	-41.1	
	<b>Mid Ch, 1880MHz</b>									
	3.760	-27.6	V	3.0	35.3	1.0	-61.9	-13.0	-48.9	
	5.640	-24.5	V	3.0	34.7	1.0	-58.2	-13.0	-45.2	
	7.520	-21.9	V	3.0	34.9	1.0	-55.8	-13.0	-42.8	
	3.760	-27.4	H	3.0	35.3	1.0	-61.8	-13.0	-48.8	
	5.640	-23.4	H	3.0	34.7	1.0	-57.1	-13.0	-44.1	
	7.520	-20.2	H	3.0	34.9	1.0	-54.1	-13.0	-41.1	
	<b>High Ch, 1900MHz</b>									
	3.800	-27.5	V	3.0	35.3	1.0	-61.8	-13.0	-48.8	
	5.700	-21.9	V	3.0	34.7	1.0	-55.6	-13.0	-42.6	
	7.600	-21.8	V	3.0	34.9	1.0	-55.8	-13.0	-42.8	
	3.800	-25.7	H	3.0	35.3	1.0	-60.0	-13.0	-47.0	
	5.700	-22.7	H	3.0	34.7	1.0	-56.4	-13.0	-43.4	
	7.600	-20.2	H	3.0	34.9	1.0	-54.2	-13.0	-41.2	
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:		Sony								
Project #:		14U17933								
Date:		08/14/14								
Test Engineer:		O. Stoelting								
Configuration:		X Position, EUT and AC Adapter								
Mode:		LTE2 15M 16QAM HARM								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		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
LTE2 15MHz 16QAM	Low Ch, 1857.5MHz									
	3.715	-28.1	V	3.0	35.4	1.0	-62.5	-13.0	-49.5	
	5.573	-22.9	V	3.0	34.7	1.0	-56.6	-13.0	-43.6	
	7.430	-22.0	V	3.0	34.9	1.0	-55.9	-13.0	-42.9	
	3.715	-27.7	H	3.0	35.4	1.0	-62.1	-13.0	-49.1	
	5.573	-23.5	H	3.0	34.7	1.0	-57.2	-13.0	-44.2	
	7.430	-20.3	H	3.0	34.9	1.0	-54.2	-13.0	-41.2	
	Mid Ch, 1880MHz									
	3.760	-27.6	V	3.0	35.3	1.0	-61.9	-13.0	-48.9	
	5.640	-24.5	V	3.0	34.7	1.0	-58.3	-13.0	-45.3	
	7.520	-21.9	V	3.0	34.9	1.0	-55.8	-13.0	-42.8	
	3.760	-27.5	H	3.0	35.3	1.0	-61.8	-13.0	-48.8	
	5.640	-23.6	H	3.0	34.7	1.0	-57.3	-13.0	-44.3	
	7.520	-20.2	H	3.0	34.9	1.0	-54.2	-13.0	-41.2	
	High Ch, 1902.5MHz									
	3.805	-27.6	V	3.0	35.3	1.0	-61.9	-13.0	-48.9	
	5.706	-23.9	V	3.0	34.7	1.0	-57.7	-13.0	-44.7	
	7.610	-21.7	V	3.0	34.9	1.0	-55.7	-13.0	-42.7	
3.805	-26.2	H	3.0	35.3	1.0	-60.5	-13.0	-47.5		
5.706	-23.0	H	3.0	34.7	1.0	-56.8	-13.0	-43.8		
7.610	-20.2	H	3.0	34.9	1.0	-54.1	-13.0	-41.1		
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:		Sony								
Project #:		14U17933								
Date:		08/14/14								
Test Engineer:		O. Stoelting								
Configuration:		X Position, EUT and AC Adapter								
Mode:		LTE2 15M QPSK HARM								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		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
	<b>Low Ch, 1857.5MHz</b>									
	3.715	-27.9	V	3.0	35.4	1.0	-62.3	-13.0	-49.3	
	5.573	-22.5	V	3.0	34.7	1.0	-56.2	-13.0	-43.2	
	7.430	-22.0	V	3.0	34.9	1.0	-55.9	-13.0	-42.9	
15MHz	3.715	-27.7	H	3.0	35.4	1.0	-62.0	-13.0	-49.0	
	5.573	-24.0	H	3.0	34.7	1.0	-57.8	-13.0	-44.8	
QPSK	7.430	-20.3	H	3.0	34.9	1.0	-54.2	-13.0	-41.2	
	<b>Mid Ch, 1880MHz</b>									
	3.760	-27.4	V	3.0	35.3	1.0	-61.8	-13.0	-48.8	
	5.640	-24.4	V	3.0	34.7	1.0	-58.1	-13.0	-45.1	
	7.520	-21.8	V	3.0	34.9	1.0	-55.7	-13.0	-42.7	
	3.760	-27.4	H	3.0	35.3	1.0	-61.7	-13.0	-48.7	
	5.640	-23.6	H	3.0	34.7	1.0	-57.3	-13.0	-44.3	
	7.520	-20.3	H	3.0	34.9	1.0	-54.2	-13.0	-41.2	
	<b>High Ch, 1902.5MHz</b>									
	3.805	-27.7	V	3.0	35.3	1.0	-62.0	-13.0	-49.0	
	5.706	-23.9	V	3.0	34.7	1.0	-57.6	-13.0	-44.6	
	7.610	-21.8	V	3.0	34.9	1.0	-55.7	-13.0	-42.7	
	3.805	-25.9	H	3.0	35.3	1.0	-60.2	-13.0	-47.2	
	5.706	-22.8	H	3.0	34.7	1.0	-56.6	-13.0	-43.6	
	7.610	-20.1	H	3.0	34.9	1.0	-54.1	-13.0	-41.1	
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:		Sony								
Project #:		14U17933								
Date:		08/14/14								
Test Engineer:		O. Stoelting								
Configuration:		X Position, EUT and AC Adapter								
Mode:		LTE2 10M 16QAM HARM								
Chamber		Pre-amplifier			Filter		Limit			
3m Chamber		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
	<b>Low Ch, 1855MHz</b>									
	3.710	-27.3	V	3.0	35.4	1.0	-61.7	-13.0	-48.7	
	5.565	-24.3	V	3.0	34.7	1.0	-58.0	-13.0	-45.0	
	7.420	-21.5	V	3.0	34.9	1.0	-55.4	-13.0	-42.4	
10MHz	3.710	-27.2	H	3.0	35.4	1.0	-61.6	-13.0	-48.6	
	5.565	-23.6	H	3.0	34.7	1.0	-57.3	-13.0	-44.3	
16QAM	7.420	-19.9	H	3.0	34.9	1.0	-53.8	-13.0	-40.8	
	<b>Mid Ch, 1880MHz</b>									
	3.760	-26.8	V	3.0	35.3	1.0	-61.1	-13.0	-48.1	
	5.640	-24.4	V	3.0	34.7	1.0	-58.1	-13.0	-45.1	
	7.520	-21.5	V	3.0	34.9	1.0	-55.4	-13.0	-42.4	
	3.760	-26.9	H	3.0	35.3	1.0	-61.2	-13.0	-48.2	
	5.640	-23.3	H	3.0	34.7	1.0	-57.0	-13.0	-44.0	
	7.520	-19.7	H	3.0	34.9	1.0	-53.6	-13.0	-40.6	
	<b>High Ch, 1905MHz</b>									
	3.810	-27.0	V	3.0	35.3	1.0	-61.3	-13.0	-48.3	
	5.715	-23.3	V	3.0	34.7	1.0	-57.0	-13.0	-44.0	
	7.620	-21.2	V	3.0	34.9	1.0	-55.1	-13.0	-42.1	
	3.810	-26.8	H	3.0	35.3	1.0	-61.1	-13.0	-48.1	
	5.715	-22.4	H	3.0	34.7	1.0	-56.2	-13.0	-43.2	
	7.620	-19.4	H	3.0	34.9	1.0	-53.4	-13.0	-40.4	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/14/14								
<b>Test Engineer:</b>		O. Stoelting								
<b>Configuration:</b>		X Position, EUT and AC Adapter								
<b>Mode:</b>		LTE2 10M QPSK HARM								
<b>Chamber</b>		<b>Pre-amplifier</b>			<b>Filter</b>		<b>Limit</b>			
3m Chamber		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
	<b>Low Ch, 1855MHz</b>									
	3.710	-27.3	V	3.0	35.4	1.0	-61.7	-13.0	-48.7	
	5.565	-24.1	V	3.0	34.7	1.0	-57.9	-13.0	-44.9	
	7.420	-21.5	V	3.0	34.9	1.0	-55.5	-13.0	-42.5	
10MHz	3.710	-27.3	H	3.0	35.4	1.0	-61.7	-13.0	-48.7	
	5.565	-23.6	H	3.0	34.7	1.0	-57.3	-13.0	-44.3	
QPSK	7.420	-19.8	H	3.0	34.9	1.0	-53.7	-13.0	-40.7	
	<b>Mid Ch, 1880MHz</b>									
	3.760	-26.8	V	3.0	35.3	1.0	-61.2	-13.0	-48.2	
	5.640	-24.2	V	3.0	34.7	1.0	-57.9	-13.0	-44.9	
	7.520	-21.4	V	3.0	34.9	1.0	-55.3	-13.0	-42.3	
	3.760	-26.7	H	3.0	35.3	1.0	-61.0	-13.0	-48.0	
	5.640	-23.5	H	3.0	34.7	1.0	-57.2	-13.0	-44.2	
	7.520	-19.5	H	3.0	34.9	1.0	-53.5	-13.0	-40.5	
	<b>High Ch, 1905MHz</b>									
	3.810	-27.0	V	3.0	35.3	1.0	-61.3	-13.0	-48.3	
	5.715	-23.4	V	3.0	34.7	1.0	-57.2	-13.0	-44.2	
	7.620	-21.2	V	3.0	34.9	1.0	-55.1	-13.0	-42.1	
	3.810	-26.4	H	3.0	35.3	1.0	-60.7	-13.0	-47.7	
	5.715	-22.5	H	3.0	34.7	1.0	-56.2	-13.0	-43.2	
	7.620	-19.6	H	3.0	34.9	1.0	-53.5	-13.0	-40.5	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/14/14								
<b>Test Engineer:</b>		O. Stoelting								
<b>Configuration:</b>		X Position, EUT and AC Adapter								
<b>Mode:</b>		LTE2_5M_16QAM								
<b>Chamber</b>		<b>Pre-amplifier</b>		<b>Filter</b>		<b>Limit</b>				
3m Chamber		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
LTE2 5MHz 16QAM	Low Ch, 1852.5MHz									
	3.705	-27.6	V	3.0	35.4	1.0	-62.0	-13.0	-49.0	
	5.557	-23.2	V	3.0	34.7	1.0	-56.9	-13.0	-43.9	
	7.410	-20.5	V	3.0	34.9	1.0	-54.4	-13.0	-41.4	
	3.705	-27.7	H	3.0	35.4	1.0	-62.1	-13.0	-49.1	
	5.557	-23.7	H	3.0	34.7	1.0	-57.4	-13.0	-44.4	
	7.410	-19.5	H	3.0	34.9	1.0	-53.4	-13.0	-40.4	
	Mid Ch, 1880.0MHz									
	3.760	-26.9	V	3.0	35.3	1.0	-61.3	-13.0	-48.3	
5.640	-23.0	V	3.0	34.7	1.0	-56.7	-13.0	-43.7		
7.520	-20.4	V	3.0	34.9	1.0	-54.4	-13.0	-41.4		
3.760	-27.4	H	3.0	35.3	1.0	-61.7	-13.0	-48.7		
5.640	-23.7	H	3.0	34.7	1.0	-57.4	-13.0	-44.4		
7.520	-19.4	H	3.0	34.9	1.0	-53.4	-13.0	-40.4		
High Ch, 1907.5 MHz										
3.815	-27.1	V	3.0	35.3	1.0	-61.4	-13.0	-48.4		
5.722	-23.0	V	3.0	34.7	1.0	-56.7	-13.0	-43.7		
7.630	-20.3	V	3.0	34.9	1.0	-54.2	-13.0	-41.2		
3.815	-27.4	H	3.0	35.3	1.0	-61.7	-13.0	-48.7		
5.722	-22.5	H	3.0	34.7	1.0	-56.2	-13.0	-43.2		
7.630	-19.3	H	3.0	34.9	1.0	-53.2	-13.0	-40.2		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/14/14								
<b>Test Engineer:</b>		O. Stoelting								
<b>Configuration:</b>		X Position, EUT and AC Adapter								
<b>Mode:</b>		LTE2_5M_QPSK								
<b>Chamber</b>		<b>Pre-amplifier</b>		<b>Filter</b>		<b>Limit</b>				
3m Chamber		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
LTE2	Low Ch, 1852.5MHz									
	3.705	-27.6	V	3.0	35.4	1.0	-62.0	-13.0	-49.0	
	5.557	-22.9	V	3.0	34.7	1.0	-56.7	-13.0	-43.7	
5MHz	7.410	-20.3	V	3.0	34.9	1.0	-54.3	-13.0	-41.3	
	3.705	-27.9	H	3.0	35.4	1.0	-62.3	-13.0	-49.3	
	5.557	-23.7	H	3.0	34.7	1.0	-57.4	-13.0	-44.4	
QPSK	7.410	-19.3	H	3.0	34.9	1.0	-53.2	-13.0	-40.2	
	Mid Ch, 1880.0MHz									
	3.760	-27.0	V	3.0	35.3	1.0	-61.3	-13.0	-48.3	
	5.640	-22.9	V	3.0	34.7	1.0	-56.6	-13.0	-43.6	
	7.520	-20.4	V	3.0	34.9	1.0	-54.4	-13.0	-41.4	
	3.760	-27.3	H	3.0	35.3	1.0	-61.7	-13.0	-48.7	
	5.640	-23.6	H	3.0	34.7	1.0	-57.3	-13.0	-44.3	
	7.520	-19.6	H	3.0	34.9	1.0	-53.5	-13.0	-40.5	
High Ch, 1907.5 MHz										
	3.815	-27.1	V	3.0	35.3	1.0	-61.4	-13.0	-48.4	
	5.722	-22.9	V	3.0	34.7	1.0	-56.6	-13.0	-43.6	
	7.630	-19.8	V	3.0	34.9	1.0	-53.7	-13.0	-40.7	
	3.815	-27.4	H	3.0	35.3	1.0	-61.7	-13.0	-48.7	
	5.722	-22.4	H	3.0	34.7	1.0	-56.1	-13.0	-43.1	
	7.630	-19.3	H	3.0	34.9	1.0	-53.3	-13.0	-40.3	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/14/14								
<b>Test Engineer:</b>		O. Stoelting								
<b>Configuration:</b>		X Position, EUT and AC Adapter								
<b>Mode:</b>		LTE2_3M_HARM_16QAM								
<b>Chamber</b>		<b>Pre-amplifier</b>		<b>Filter</b>		<b>Limit</b>				
3m Chamber		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
LTE2  3MHz  16QAM	Low Ch, 1851.5MHz									
	3.703	-27.5	V	3.0	35.4	1.0	-61.9	-13.0	-48.9	
	5.554	-22.3	V	3.0	34.7	1.0	-56.0	-13.0	-43.0	
	7.406	-20.5	V	3.0	34.9	1.0	-54.5	-13.0	-41.5	
	3.703	-27.9	H	3.0	35.4	1.0	-62.3	-13.0	-49.3	
	5.554	-22.9	H	3.0	34.7	1.0	-56.6	-13.0	-43.6	
	7.406	-19.6	H	3.0	34.9	1.0	-53.5	-13.0	-40.5	
	Mid Ch, 1880.0MHz									
	3.760	-27.3	V	3.0	35.3	1.0	-61.6	-13.0	-48.6	
5.640	-22.9	V	3.0	34.7	1.0	-56.6	-13.0	-43.6		
7.520	-20.3	V	3.0	34.9	1.0	-54.2	-13.0	-41.2		
3.760	-27.2	H	3.0	35.3	1.0	-61.5	-13.0	-48.5		
5.640	-23.6	H	3.0	34.7	1.0	-57.3	-13.0	-44.3		
7.520	-19.5	H	3.0	34.9	1.0	-53.4	-13.0	-40.4		
High Ch, 1908.5 MHz										
3.817	-26.8	V	3.0	35.3	1.0	-61.0	-13.0	-48.0		
5.725	-23.2	V	3.0	34.7	1.0	-56.9	-13.0	-43.9		
7.634	-20.3	V	3.0	34.9	1.0	-54.2	-13.0	-41.2		
3.817	-26.1	H	3.0	35.3	1.0	-60.4	-13.0	-47.4		
5.725	-22.4	H	3.0	34.7	1.0	-56.1	-13.0	-43.1		
7.634	-19.1	H	3.0	34.9	1.0	-53.0	-13.0	-40.0		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/14/14								
<b>Test Engineer:</b>		O. Stoelting								
<b>Configuration:</b>		X Position, EUT and AC Adapter								
<b>Mode:</b>		LTE2_3M_HARM_QPSK								
<b>Chamber</b>		<b>Pre-amplifier</b>			<b>Filter</b>		<b>Limit</b>			
3m Chamber		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
LTE2  3MHz  QPSK	Low Ch, 1851.5MHz									
	3.703	-27.7	V	3.0	35.4	1.0	-62.1	-13.0	-49.1	
	5.554	-22.1	V	3.0	34.7	1.0	-55.9	-13.0	-42.9	
	7.406	-20.5	V	3.0	34.9	1.0	-54.4	-13.0	-41.4	
	3.703	-27.8	H	3.0	35.4	1.0	-62.2	-13.0	-49.2	
	5.554	-22.8	H	3.0	34.7	1.0	-56.5	-13.0	-43.5	
	7.406	-19.4	H	3.0	34.9	1.0	-53.3	-13.0	-40.3	
	Mid Ch, 1880.0MHz									
	3.760	-27.4	V	3.0	35.3	1.0	-61.7	-13.0	-48.7	
5.640	-22.6	V	3.0	34.7	1.0	-56.4	-13.0	-43.4		
7.520	-20.3	V	3.0	34.9	1.0	-54.3	-13.0	-41.3		
3.760	-27.0	H	3.0	35.3	1.0	-61.4	-13.0	-48.4		
5.640	-23.7	H	3.0	34.7	1.0	-57.4	-13.0	-44.4		
7.520	-19.3	H	3.0	34.9	1.0	-53.3	-13.0	-40.3		
High Ch, 1908.5 MHz										
3.817	-26.9	V	3.0	35.3	1.0	-61.1	-13.0	-48.1		
5.725	-23.0	V	3.0	34.7	1.0	-56.7	-13.0	-43.7		
7.634	-19.8	V	3.0	34.9	1.0	-53.8	-13.0	-40.8		
3.817	-25.8	H	3.0	35.3	1.0	-60.1	-13.0	-47.1		
5.725	-22.4	H	3.0	34.7	1.0	-56.1	-13.0	-43.1		
7.634	-19.1	H	3.0	34.9	1.0	-53.1	-13.0	-40.1		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/14/14								
<b>Test Engineer:</b>		O. Stoelting								
<b>Configuration:</b>		X Position, EUT and AC Adapter								
<b>Mode:</b>		LTE2_1.4M_HARM_16QAM								
<b>Chamber</b>		<b>Pre-amplifier</b>		<b>Filter</b>		<b>Limit</b>				
3m Chamber		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
LTE2 1.4MHz 16QAM	Low Ch, 1850.7MHz									
	3.702	-27.0	V	3.0	35.4	1.0	-61.4	-13.0	-48.4	
	5.553	-16.3	V	3.0	34.7	1.0	-50.0	-13.0	-37.0	
	7.404	-19.9	V	3.0	34.9	1.0	-53.8	-13.0	-40.8	
	3.702	-27.4	H	3.0	35.4	1.0	-61.8	-13.0	-48.8	
	5.553	-21.3	H	3.0	34.7	1.0	-55.0	-13.0	-42.0	
	7.404	-18.8	H	3.0	34.9	1.0	-52.7	-13.0	-39.7	
	Mid Ch, 1880.0MHz									
	3.760	-26.6	V	3.0	35.3	1.0	-60.9	-13.0	-47.9	
5.640	-18.8	V	3.0	34.7	1.0	-52.5	-13.0	-39.5		
7.520	-19.7	V	3.0	34.9	1.0	-53.6	-13.0	-40.6		
3.760	-26.1	H	3.0	35.3	1.0	-60.4	-13.0	-47.4		
5.640	-22.2	H	3.0	34.7	1.0	-56.0	-13.0	-43.0		
7.520	-18.8	H	3.0	34.9	1.0	-52.8	-13.0	-39.8		
High Ch, 1909.3 MHz										
3.816	-26.8	V	3.0	35.3	1.0	-61.1	-13.0	-48.1		
5.724	-22.6	V	3.0	34.7	1.0	-56.3	-13.0	-43.3		
7.632	-20.7	V	3.0	34.9	1.0	-54.7	-13.0	-41.7		
3.816	-26.7	H	3.0	35.3	1.0	-61.0	-13.0	-48.0		
5.724	-20.6	H	3.0	34.7	1.0	-54.3	-13.0	-41.3		
7.632	-18.5	H	3.0	34.9	1.0	-52.4	-13.0	-39.4		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/14/14								
<b>Test Engineer:</b>		O. Stoelting								
<b>Configuration:</b>		X Position, EUT and AC Adapter								
<b>Mode:</b>		LTE2_1.4M_HARM_QPSK								
<b>Chamber</b>		<b>Pre-amplifier</b>		<b>Filter</b>		<b>Limit</b>				
3m Chamber		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
LTE2	Low Ch, 1850.7MHz									
	3.702	-27.2	V	3.0	35.4	1.0	-61.6	-13.0	-48.6	
	5.553	-16.7	V	3.0	34.7	1.0	-50.4	-13.0	-37.4	
1.4MHz	7.404	-19.8	V	3.0	34.9	1.0	-53.7	-13.0	-40.7	
	3.702	-27.4	H	3.0	35.4	1.0	-61.8	-13.0	-48.8	
	5.553	-21.4	H	3.0	34.7	1.0	-55.1	-13.0	-42.1	
QPSK	7.404	-18.9	H	3.0	34.9	1.0	-52.8	-13.0	-39.8	
	Mid Ch, 1880.0MHz									
	3.760	-26.6	V	3.0	35.3	1.0	-60.9	-13.0	-47.9	
	5.640	-19.4	V	3.0	34.7	1.0	-53.1	-13.0	-40.1	
	7.520	-19.9	V	3.0	34.9	1.0	-53.8	-13.0	-40.8	
	3.760	-26.0	H	3.0	35.3	1.0	-60.4	-13.0	-47.4	
	5.640	-22.4	H	3.0	34.7	1.0	-56.1	-13.0	-43.1	
	7.520	-18.8	H	3.0	34.9	1.0	-52.7	-13.0	-39.7	
	High Ch, 1909.3 MHz									
	3.816	-26.2	V	3.0	35.3	1.0	-60.5	-13.0	-47.5	
	5.724	-20.7	V	3.0	34.7	1.0	-54.4	-13.0	-41.4	
	7.632	-19.6	V	3.0	34.9	1.0	-53.6	-13.0	-40.6	
	3.816	-26.3	H	3.0	35.3	1.0	-60.6	-13.0	-47.6	
	5.724	-21.1	H	3.0	34.7	1.0	-54.8	-13.0	-41.8	
	7.632	-18.5	H	3.0	34.9	1.0	-52.4	-13.0	-39.4	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/14/14								
<b>Test Engineer:</b>		K. Huynh, T. Oeur								
<b>Configuration:</b>		X Position, EUT and AC Adapter								
<b>Mode:</b>		HSDPA B2								
<b>Chamber</b>		<b>Pre-amplifier</b>			<b>Filter</b>		<b>Limit</b>			
3m Chamber		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
	<b>Low Ch, 1852.4MHz</b>									
Band 2	3.704	-17.5	V	3.0	35.4	1.0	-51.9	-13.0	-38.9	
	5.557	-15.3	V	3.0	34.7	1.0	-49.1	-13.0	-36.1	
	7.409	-13.0	V	3.0	34.9	1.0	-46.9	-13.0	-33.9	
HSDPA	3.704	-16.8	H	3.0	35.4	1.0	-51.2	-13.0	-38.2	
	5.557	-14.4	H	3.0	34.7	1.0	-48.2	-13.0	-35.2	
	7.409	-13.1	H	3.0	34.9	1.0	-47.0	-13.0	-34.0	
	<b>Mid Ch, 1880.0MHz</b>									
	3.760	-17.3	V	3.0	35.3	1.0	-51.6	-13.0	-38.6	
	5.640	-15.3	V	3.0	34.7	1.0	-49.1	-13.0	-36.1	
	7.520	-14.0	V	3.0	34.9	1.0	-47.9	-13.0	-34.9	
	3.760	-17.0	H	3.0	35.3	1.0	-51.3	-13.0	-38.3	
	5.640	-14.6	H	3.0	34.7	1.0	-48.4	-13.0	-35.4	
	7.520	-12.6	H	3.0	34.9	1.0	-46.5	-13.0	-33.5	
	<b>High Ch, 1907.6 MHz</b>									
	3.815	-16.1	V	3.0	35.3	1.0	-50.4	-13.0	-37.4	
	5.723	-14.9	V	3.0	34.7	1.0	-48.7	-13.0	-35.7	
	7.630	-12.6	V	3.0	34.9	1.0	-46.5	-13.0	-33.5	
	3.815	-16.6	H	3.0	35.3	1.0	-50.9	-13.0	-37.9	
	5.723	-14.0	H	3.0	34.7	1.0	-47.7	-13.0	-34.7	
	7.630	-12.0	H	3.0	34.9	1.0	-46.0	-13.0	-33.0	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/14/14								
<b>Test Engineer:</b>		K. Huynh, T. Oeur								
<b>Configuration:</b>		X Position, EUT and AC Adapter								
<b>Mode:</b>		REL99 B2								
<b>Chamber</b>		<b>Pre-amplifier</b>		<b>Filter</b>		<b>Limit</b>				
3m Chamber		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
REL99	Low Ch, 1852.4MHz									
	3.704	-17.3	V	3.0	35.4	1.0	-51.7	-13.0	-38.7	
	5.557	-15.3	V	3.0	34.7	1.0	-49.0	-13.0	-36.0	
	7.409	-13.5	V	3.0	34.9	1.0	-47.5	-13.0	-34.5	
	3.704	-17.3	H	3.0	35.4	1.0	-51.7	-13.0	-38.7	
	5.557	-13.7	H	3.0	34.7	1.0	-47.5	-13.0	-34.5	
	7.409	-12.2	H	3.0	34.9	1.0	-46.2	-13.0	-33.2	
	Mid Ch, 1880.0MHz									
	3.760	-16.6	V	3.0	35.3	1.0	-51.0	-13.0	-38.0	
5.640	-15.2	V	3.0	34.7	1.0	-48.9	-13.0	-35.9		
7.520	-13.9	V	3.0	34.9	1.0	-47.9	-13.0	-34.9		
3.760	-17.6	H	3.0	35.3	1.0	-51.9	-13.0	-38.9		
5.640	-14.6	H	3.0	34.7	1.0	-48.3	-13.0	-35.3		
7.520	-12.1	H	3.0	34.9	1.0	-46.1	-13.0	-33.1		
High Ch, 1907.6 MHz										
3.815	-16.4	V	3.0	35.3	1.0	-50.7	-13.0	-37.7		
5.723	-14.3	V	3.0	34.7	1.0	-48.0	-13.0	-35.0		
7.630	-13.4	V	3.0	34.9	1.0	-47.4	-13.0	-34.4		
3.815	-16.9	H	3.0	35.3	1.0	-51.2	-13.0	-38.2		
5.723	-14.4	H	3.0	34.7	1.0	-48.2	-13.0	-35.2		
7.630	-12.2	H	3.0	34.9	1.0	-46.2	-13.0	-33.2		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/14/14								
<b>Test Engineer:</b>		K. Huynh, T. Oeur								
<b>Configuration:</b>		X Position, EUT and AC Adapter								
<b>Mode:</b>		HSDPA B4								
<b>Chamber</b>		<b>Pre-amplifier</b>		<b>Filter</b>		<b>Limit</b>				
3m Chamber		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
Band 4  HSDPA	Low Ch, 1712.4MHz									
	3.425	-19.7	V	3.0	35.7	1.0	-54.4	-13.0	-41.4	
	5.137	-14.9	V	3.0	34.7	1.0	-48.6	-13.0	-35.6	
	6.850	-14.3	V	3.0	34.8	1.0	-48.1	-13.0	-35.1	
	3.425	-21.3	H	3.0	35.7	1.0	-56.0	-13.0	-43.0	
	5.137	-16.5	H	3.0	34.7	1.0	-50.2	-13.0	-37.2	
	6.850	-13.7	H	3.0	34.8	1.0	-47.5	-13.0	-34.5	
	Mid Ch, 1732.5MHz									
	3.465	-20.8	V	3.0	35.6	1.0	-55.4	-13.0	-42.4	
5.198	-14.9	V	3.0	34.7	1.0	-48.6	-13.0	-35.6		
6.930	-14.0	V	3.0	34.8	1.0	-47.9	-13.0	-34.9		
3.465	-20.6	H	3.0	35.6	1.0	-55.2	-13.0	-42.2		
5.198	-14.0	H	3.0	34.7	1.0	-47.7	-13.0	-34.7		
6.930	-12.7	H	3.0	34.8	1.0	-46.6	-13.0	-33.6		
High Ch, 1752.6 MHz										
3.485	-20.8	V	3.0	35.6	1.0	-55.4	-13.0	-42.4		
5.218	-14.0	V	3.0	34.7	1.0	-47.7	-13.0	-34.7		
6.950	-13.8	V	3.0	34.8	1.0	-47.7	-13.0	-34.7		
3.485	-18.6	H	3.0	35.6	1.0	-53.2	-13.0	-40.2		
5.218	-15.6	H	3.0	34.7	1.0	-49.3	-13.0	-36.3		
6.950	-12.9	H	3.0	34.8	1.0	-46.7	-13.0	-33.7		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/15/14								
<b>Test Engineer:</b>		O. Stoelting								
<b>Configuration:</b>		X Position, EUT w/ AC Adaptor and HS								
<b>Mode:</b>		WCDMA, AWS, B4 Rel 99								
<b>Chamber</b>		<b>Pre-amplifier</b>		<b>Filter</b>		<b>Limit</b>				
3m Chamber		T145 8449B		Filter 1		Part 27				
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, (1712.4MHz)									
Band 4	3.425	-21.2	V	3.0	35.5	1.0	-55.6	-13.0	-42.6	
	5.137	-17.4	V	3.0	35.3	1.0	-51.8	-13.0	-38.8	
	6.850	-15.3	V	3.0	35.7	1.0	-50.0	-13.0	-37.0	
REL99	3.425	-19.9	H	3.0	35.5	1.0	-54.4	-13.0	-41.4	
	5.137	-17.2	H	3.0	35.3	1.0	-51.5	-13.0	-38.5	
	6.850	-14.0	H	3.0	35.7	1.0	-48.7	-13.0	-35.7	
	Mid Ch, (1732.6MHz)									
	3.465	-22.5	V	3.0	35.5	1.0	-56.9	-13.0	-43.9	
	5.198	-17.8	V	3.0	35.3	1.0	-52.1	-13.0	-39.1	
	6.930	-15.2	V	3.0	35.7	1.0	-49.9	-13.0	-36.9	
	3.465	-22.2	H	3.0	35.5	1.0	-56.6	-13.0	-43.6	
	5.198	-17.7	H	3.0	35.3	1.0	-52.0	-13.0	-39.0	
	6.930	-13.4	H	3.0	35.7	1.0	-48.1	-13.0	-35.1	
	High Ch, (1752.6MHz)									
	3.505	-22.5	V	3.0	35.4	1.0	-57.0	-13.0	-44.0	
	5.258	-15.0	V	3.0	35.3	1.0	-49.4	-13.0	-36.4	
	7.010	-14.0	V	3.0	35.7	1.0	-48.8	-13.0	-35.8	
	3.505	-21.8	H	3.0	35.4	1.0	-56.3	-13.0	-43.3	
	5.258	-18.3	H	3.0	35.3	1.0	-52.6	-13.0	-39.6	
	7.010	-13.7	H	3.0	35.7	1.0	-48.4	-13.0	-35.4	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		14U17933							
<b>Date:</b>		08/15/14							
<b>Test Engineer:</b>		O. Stoelting							
<b>Configuration:</b>		X Position, EUT w/ AC Adaptor and HS							
<b>Mode:</b>		WCDMA_HSDPA_B5_HARM							
<b>Chamber</b>		<b>Pre-amplifier</b>			<b>Filter</b>		<b>Limit</b>		
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
Band									
Band 5									
HSDPA									
Low Ch, 826.4 MHz									
1.653	-22.8	V	3.0	37.4	1.0	-59.2	-13.0	-46.2	
2.479	-20.3	V	3.0	36.4	1.0	-55.6	-13.0	-42.6	
3.306	-23.0	V	3.0	35.8	1.0	-57.8	-13.0	-44.8	
1.653	-28.5	H	3.0	37.4	1.0	-64.9	-13.0	-51.9	
2.479	-23.5	H	3.0	36.4	1.0	-58.9	-13.0	-45.9	
3.306	-23.0	H	3.0	35.8	1.0	-57.7	-13.0	-44.7	
Mid Ch, 836.6MHz									
1.673	-29.1	V	3.0	37.3	1.0	-65.4	-13.0	-52.4	
2.510	-19.3	V	3.0	36.4	1.0	-54.6	-13.0	-41.6	
3.346	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
1.673	-28.7	H	3.0	37.3	1.0	-65.0	-13.0	-52.0	
2.510	-21.7	H	3.0	36.4	1.0	-57.1	-13.0	-44.1	
3.346	-22.9	H	3.0	35.8	1.0	-57.7	-13.0	-44.7	
High Ch, 846.6MHz									
1.693	-28.0	V	3.0	37.3	1.0	-64.3	-13.0	-51.3	
2.540	-20.5	V	3.0	36.3	1.0	-55.8	-13.0	-42.8	
3.386	-22.8	V	3.0	35.7	1.0	-57.5	-13.0	-44.5	
1.693	-27.6	H	3.0	37.3	1.0	-63.9	-13.0	-50.9	
2.540	-19.5	H	3.0	36.3	1.0	-54.9	-13.0	-41.9	
3.386	-22.8	H	3.0	35.7	1.0	-57.5	-13.0	-44.5	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		14U17933							
<b>Date:</b>		08/15/14							
<b>Test Engineer:</b>		O. Stoelting							
<b>Configuration:</b>		X Position, EUT w/ AC Adaptor and HS							
<b>Mode:</b>		WCDMA_REL 99_B5_HARM							
<b>Chamber</b>		<b>Pre-amplifier</b>			<b>Filter</b>		<b>Limit</b>		
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
<b>Band 5</b>									
<b>REL99</b>									
<b>Low Ch, 826.4MHz</b>									
1.653	-27.9	V	3.0	37.4	1.0	-64.3	-13.0	-51.3	
2.479	-21.7	V	3.0	36.4	1.0	-57.1	-13.0	-44.1	
3.306	-23.2	V	3.0	35.8	1.0	-58.0	-13.0	-45.0	
1.653	-25.9	H	3.0	37.4	1.0	-62.3	-13.0	-49.3	
2.479	-22.8	H	3.0	36.4	1.0	-58.2	-13.0	-45.2	
3.306	-22.7	H	3.0	35.8	1.0	-57.5	-13.0	-44.5	
<b>Mid Ch, 836.6MHz</b>									
1.673	-29.4	V	3.0	37.3	1.0	-65.7	-13.0	-52.7	
2.510	-17.9	V	3.0	36.4	1.0	-53.3	-13.0	-40.3	
3.346	-23.6	V	3.0	35.8	1.0	-58.4	-13.0	-45.4	
1.673	-29.7	H	3.0	37.3	1.0	-66.0	-13.0	-53.0	
2.510	-19.2	H	3.0	36.4	1.0	-54.6	-13.0	-41.6	
3.346	-23.0	H	3.0	35.8	1.0	-57.8	-13.0	-44.8	
<b>High Ch, 846.6MHz</b>									
1.693	-29.4	V	3.0	37.3	1.0	-65.7	-13.0	-52.7	
2.540	-19.5	V	3.0	36.3	1.0	-54.8	-13.0	-41.8	
3.386	-23.3	V	3.0	35.7	1.0	-58.0	-13.0	-45.0	
1.693	-26.4	H	3.0	37.3	1.0	-62.7	-13.0	-49.7	
2.540	-19.4	H	3.0	36.3	1.0	-54.8	-13.0	-41.8	
3.386	-23.0	H	3.0	35.7	1.0	-57.7	-13.0	-44.7	
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:		Sony								
Project #:		14U17933								
Date:		08/14/14								
Test Engineer:		K. Huynh, T. Oeur								
Configuration:		X Position, EUT and AC Adapter								
Mode:		EGPRS1900								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber		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
GSM1900 EGPRS	Low Ch, 1850.2MHz									
	3.700	-17.3	V	3.0	35.4	1.0	-51.7	-13.0	-38.7	
	5.551	-11.3	V	3.0	34.7	1.0	-45.0	-13.0	-32.0	
	7.401	-13.3	V	3.0	34.9	1.0	-47.2	-13.0	-34.2	
	3.700	-14.7	H	3.0	35.4	1.0	-49.1	-13.0	-36.1	
	5.551	-14.1	H	3.0	34.7	1.0	-47.9	-13.0	-34.9	
	7.401	-12.5	H	3.0	34.9	1.0	-46.4	-13.0	-33.4	
	Mid Ch, 1880.0MHz									
	3.760	-16.9	V	3.0	35.3	1.0	-51.3	-13.0	-38.3	
	5.640	-8.6	V	3.0	34.7	1.0	-42.3	-13.0	-29.3	
	7.520	-13.2	V	3.0	34.9	1.0	-47.2	-13.0	-34.2	
	3.760	-12.7	H	3.0	35.3	1.0	-47.1	-13.0	-34.1	
	5.640	-14.2	H	3.0	34.7	1.0	-47.9	-13.0	-34.9	
	7.520	-11.8	H	3.0	34.9	1.0	-45.7	-13.0	-32.7	
	High Ch, 1909.8 MHz									
	3.820	-17.6	V	3.0	35.3	1.0	-51.9	-13.0	-38.9	
	5.729	-11.9	V	3.0	34.7	1.0	-45.6	-13.0	-32.6	
	7.639	-13.6	V	3.0	35.0	1.0	-47.5	-13.0	-34.5	
3.820	-13.3	H	3.0	35.3	1.0	-47.6	-13.0	-34.6		
5.729	-13.0	H	3.0	34.7	1.0	-46.7	-13.0	-33.7		
7.639	-12.5	H	3.0	35.0	1.0	-46.5	-13.0	-33.5		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/14/14								
<b>Test Engineer:</b>		K. Huynh, T. Oeur								
<b>Configuration:</b>		X Position, EUT and AC Adapter								
<b>Mode:</b>		GPRS1900								
<b>Chamber</b>		<b>Pre-amplifier</b>		<b>Filter</b>		<b>Limit</b>				
3m Chamber		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
GSM1900  GPRS	Low Ch, 1850.2MHz									
	3.700	-17.4	V	3.0	35.4	1.0	-51.8	-13.0	-38.8	
	5.551	-11.4	V	3.0	34.7	1.0	-45.1	-13.0	-32.1	
	7.401	-13.2	V	3.0	34.9	1.0	-47.1	-13.0	-34.1	
	3.700	-14.2	H	3.0	35.4	1.0	-48.6	-13.0	-35.6	
	5.551	-13.8	H	3.0	34.7	1.0	-47.5	-13.0	-34.5	
	7.401	-12.5	H	3.0	34.9	1.0	-46.4	-13.0	-33.4	
	Mid Ch, 1880.0MHz									
	3.760	-17.3	V	3.0	35.3	1.0	-51.6	-13.0	-38.6	
5.640	-9.0	V	3.0	34.7	1.0	-42.8	-13.0	-29.8		
7.520	-13.1	V	3.0	34.9	1.0	-47.0	-13.0	-34.0		
3.760	-13.0	H	3.0	35.3	1.0	-47.3	-13.0	-34.3		
5.640	-13.2	H	3.0	34.7	1.0	-47.0	-13.0	-34.0		
7.520	-12.1	H	3.0	34.9	1.0	-46.1	-13.0	-33.1		
High Ch, 1909.8 MHz										
3.820	-16.8	V	3.0	35.3	1.0	-51.1	-13.0	-38.1		
5.729	-9.1	V	3.0	34.7	1.0	-42.8	-13.0	-29.8		
7.639	-13.3	V	3.0	35.0	1.0	-47.2	-13.0	-34.2		
3.820	-13.8	H	3.0	35.3	1.0	-48.1	-13.0	-35.1		
5.729	-12.5	H	3.0	34.7	1.0	-46.2	-13.0	-33.2		
7.639	-12.0	H	3.0	35.0	1.0	-45.9	-13.0	-32.9		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		14U17933							
<b>Date:</b>		08/15/14							
<b>Test Engineer:</b>		O. Stoelting							
<b>Configuration:</b>		X Position, EUT w/ AC Adaptor and HS							
<b>Mode:</b>		EGPRS850 HARM							
<b>Chamber</b>		<b>Pre-amplifier</b>			<b>Filter</b>		<b>Limit</b>		
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
<b>Low Ch, 824.2MHz</b>									
1.648	-28.4	V	3.0	37.4	1.0	-64.7	-13.0	-51.7	
2.473	-22.3	V	3.0	36.4	1.0	-57.7	-13.0	-44.7	
3.297	-22.8	V	3.0	35.8	1.0	-57.6	-13.0	-44.6	
1.648	-29.5	H	3.0	37.4	1.0	-65.8	-13.0	-52.8	
2.473	-20.7	H	3.0	36.4	1.0	-56.1	-13.0	-43.1	
3.297	-22.7	H	3.0	35.8	1.0	-57.5	-13.0	-44.5	
<b>Mid Ch, 836.6MHz</b>									
1.673	-24.8	V	3.0	37.3	1.0	-61.1	-13.0	-48.1	
2.510	-27.1	V	3.0	36.4	1.0	-62.4	-13.0	-49.4	
3.346	-17.6	V	3.0	35.8	1.0	-52.3	-13.0	-39.3	
1.673	-28.0	H	3.0	37.3	1.0	-64.4	-13.0	-51.4	
2.510	-22.0	H	3.0	36.4	1.0	-57.3	-13.0	-44.3	
3.346	-22.8	H	3.0	35.8	1.0	-57.6	-13.0	-44.6	
<b>High Ch, 848.8MHz</b>									
1.698	-28.4	V	3.0	37.3	1.0	-64.7	-13.0	-51.7	
2.547	-24.3	V	3.0	36.3	1.0	-59.7	-13.0	-46.7	
3.395	-22.7	V	3.0	35.7	1.0	-57.4	-13.0	-44.4	
1.698	-28.0	H	3.0	37.3	1.0	-64.3	-13.0	-51.3	
2.547	-25.9	H	3.0	36.3	1.0	-61.2	-13.0	-48.2	
3.395	-22.3	H	3.0	35.7	1.0	-57.0	-13.0	-44.0	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

Band  
 GSM850  
 EGPRS

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		14U17933								
<b>Date:</b>		08/15/14								
<b>Test Engineer:</b>		O. Stoelting								
<b>Configuration:</b>		X Position, EUT w/ AC Adaptor and HS								
<b>Mode:</b>		GPRS850 HARM								
<b>Chamber</b>		<b>Pre-amplifier</b>			<b>Filter</b>		<b>Limit</b>			
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
GSM850  GPRS	Low Ch, 824.2MHz									
	1.648	-32.3	V	3.0	37.4	1.0	-68.7	-13.0	-55.7	
	2.473	-10.3	V	3.0	36.4	1.0	-45.6	-13.0	-32.6	
	3.297	-27.2	V	3.0	35.8	1.0	-62.0	-13.0	-49.0	
	1.648	-31.2	H	3.0	37.4	1.0	-67.5	-13.0	-54.5	
	2.473	-8.4	H	3.0	36.4	1.0	-43.8	-13.0	-30.8	
	3.297	-27.4	H	3.0	35.8	1.0	-62.2	-13.0	-49.2	
	Mid Ch, 836.6MHz									
	1.673	-30.4	V	3.0	37.3	1.0	-66.8	-13.0	-53.8	
	2.510	-7.8	V	3.0	36.4	1.0	-43.1	-13.0	-30.1	
	3.346	-26.9	V	3.0	35.8	1.0	-61.7	-13.0	-48.7	
	1.673	-29.1	H	3.0	37.3	1.0	-65.4	-13.0	-52.4	
2.510	-5.4	H	3.0	36.4	1.0	-40.8	-13.0	-27.8		
3.346	-27.1	H	3.0	35.8	1.0	-61.8	-13.0	-48.8		
High Ch, 848.8MHz										
1.698	-30.6	V	3.0	37.3	1.0	-66.9	-13.0	-53.9		
2.547	-13.3	V	3.0	36.3	1.0	-48.6	-13.0	-35.6		
3.395	-27.0	V	3.0	35.7	1.0	-61.7	-13.0	-48.7		
1.698	-26.9	H	3.0	37.3	1.0	-63.2	-13.0	-50.2		
2.547	-11.6	H	3.0	36.3	1.0	-46.9	-13.0	-33.9		
3.395	-27.4	H	3.0	35.7	1.0	-62.1	-13.0	-49.1		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										