

Band  LTE12  5MHz  16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc. Chamber C</b>																																																																																										
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	<b>Company:</b>		Sony																																																																																															
	<b>Project #:</b>		15J20225																																																																																															
	<b>Date:</b>		4/28/2015																																																																																															
	<b>Test Engineer:</b>		David Mun																																																																																															
	<b>Configuration:</b>		EUT Z-position																																																																																															
	<b>Mode:</b>		LTE12 1.4MHz QPSK																																																																																															
	<b>Test Equipment:</b>																																																																																																	
	Receiving: Sunol T185, and 3m Chamber C N-type Cable																																																																																																	
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Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm																																																																																																		

**LTE Band 17**

Band  LTE17  10MHz  16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>																																																																																																	
	<b>Company:</b>		Sony																																																																																															
	<b>Project #:</b>		15J20225																																																																																															
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Band LTE17 5MHz 16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>																																																																																																
	<b>Company:</b>		Sony																																																																																														
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710.00	14.74	V	0.9	0.0	13.84	34.8	-20.9																																																																																										
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Band  LTE17  5MHz  QPSK	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>																																																																																																
	<b>Company:</b>		Sony																																																																																														
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**LTE Band 5**

Band  LTE5  10MHz  16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc. Chamber C</b>								
	<b>Company:</b>		Sony						
	<b>Project #:</b>		15J20225						
	<b>Date:</b>		4/28/2015						
	<b>Test Engineer:</b>		David Mun						
	<b>Configuration:</b>		EUT Z-position						
	<b>Mode:</b>		LTE5 10MHz QPSK						
	<b>Test Equipment:</b>								
	Receiving: Sunol T185, and 3m Chamber C N-type Cable								
	Substitution: Dipole T273, 4ft SMA Cable Warehouse.								
	<b>f</b>	<b>SG reading</b>	<b>Ant. Pol.</b>	<b>Cable Loss</b>	<b>Antenna Gain</b>	<b>ERP</b>	<b>Limit</b>	<b>Margin</b>	<b>Notes</b>
	<b>MHz</b>	<b>(dBm)</b>	<b>(H/V)</b>	<b>(dB)</b>	<b>(dBd)</b>	<b>(dBm)</b>	<b>(dBm)</b>	<b>(dB)</b>	
	Low Ch								
	829.00	17.80	V	0.9	0.0	16.90	38.5	-21.5	
	829.00	3.47	H	0.9	0.0	2.57	38.5	-35.9	
	Mid Ch								
	836.50	18.56	V	0.9	0.0	17.66	38.5	-20.8	
	836.50	4.70	H	0.9	0.0	3.80	38.5	-34.6	
	High Ch								
	844.00	19.63	V	0.9	0.0	18.73	38.5	-19.7	
	844.00	5.11	H	0.9	0.0	4.21	38.5	-34.2	
	Rev. 3.17.11								
	Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm								

Band  LTE5  10MHz  QPSK	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc. Chamber C</b>																																																																																																	
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836.50	20.03	V	0.9	0.0	19.13	38.5	-19.3																																																																																																
836.50	5.74	H	0.9	0.0	4.84	38.5	-33.6																																																																																																
<b>High Ch</b>																																																																																																							
847.50	20.65	V	0.9	0.0	19.75	38.5	-18.7																																																																																																
847.50	6.30	H	0.9	0.0	5.40	38.5	-33.0																																																																																																
Rev. 3.17.11 Note: For Band 13/17 ERP limit is 34.77dBm; For Band 26 limit is 50dBm																																																																																																							

Band  LTE5  1.4MHz  16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc. Chamber C</b>																																																																																																						
	<b>Company:</b>		Sony																																																																																																				
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Band  LTE5  1.4MHz  QPSK	<b>High Frequency Substitution Measurement UL Verification Services, Inc. Chamber C</b>																																																																																																						
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**LTE Band 4**

Band  LTE4  20MHz  16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>																																																																																																	
	<b>Company:</b>		Sony																																																																																															
	<b>Project #:</b>		15J20225																																																																																															
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	<b>Location:</b>		Chamber C																																																																																															
	<b>Mode:</b>		LTE_16QAM Band 4 Fundamentals, 20MHz Bandwidth																																																																																															
	<b>Test Equipment:</b>		Receiving: Horn T119, and Chamber C SMA Cables Substitution: Horn T59, 4ft SMA Cable Warehouse																																																																																															
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Band  LTE4  20MHz  QPSK	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>								
	<b>Company:</b> Sony <b>Project #:</b> 15J20225 <b>Date:</b> 4/20/2015 <b>Test Engineer:</b> R. Alegre <b>Configuration:</b> EUT Only <b>Location:</b> Chamber C <b>Mode:</b> LTE_QPSK Band 4 Fundamentals, 20MHz Bandwidth								
	<b>Test Equipment:</b> <b>Receiving:</b> Horn T119, and Chamber C SMA Cables <b>Substitution:</b> Horn T59, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	<b>Low Ch</b>								
	1720.00	1.68	V	0.9	8.2	9.02	30.0	-21.0	
	1720.00	9.35	H	0.9	8.2	16.69	30.0	-13.3	
	<b>Mid Ch</b>								
	1732.50	1.47	V	0.9	8.2	8.74	30.0	-21.3	
1732.50	11.10	H	0.9	8.2	18.37	30.0	-11.6		
<b>High Ch</b>									
1745.00	1.96	V	0.9	8.1	9.16	30.0	-20.8		
1745.00	9.82	H	0.9	8.1	17.02	30.0	-13.0		

Band  LTE4  15MHz  16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>																																																																																																					
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Band  LTE4  15MHz  QPSK	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>								
	<b>Company:</b> Sony <b>Project #:</b> 15J20225 <b>Date:</b> 4/20/2015 <b>Test Engineer:</b> R. Alegre <b>Configuration:</b> EUT Only <b>Location:</b> Chamber C <b>Mode:</b> LTE_QPSK Band 4 Fundamentals, 15MHz Bandwidth								
	<b>Test Equipment:</b> <b>Receiving:</b> Horn T119, and Chamber C SMA Cables <b>Substitution:</b> Horn T59, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	<b>Low Ch</b>								
	1717.50	1.61	V	0.9	8.2	8.96	30.0	-21.0	
	1717.50	9.14	H	0.9	8.2	16.49	30.0	-13.5	
	<b>Mid Ch</b>								
	1732.50	1.32	V	0.9	8.2	8.59	30.0	-21.4	
1732.50	10.75	H	0.9	8.2	18.02	30.0	-12.0		
<b>High Ch</b>									
1747.50	1.85	V	0.9	8.1	9.04	30.0	-21.0		
1747.50	9.92	H	0.9	8.1	17.11	30.0	-12.9		

Band  LTE4  10MHz  16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>																																																																																																					
	<b>Company:</b>		Sony																																																																																																			
	<b>Project #:</b>		15J20225																																																																																																			
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f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																														
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Band  LTE4  10MHz  QPSK	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>								
	<b>Company:</b> Sony <b>Project #:</b> 15J20225 <b>Date:</b> 4/20/2015 <b>Test Engineer:</b> R. Alegre <b>Configuration:</b> EUT Only <b>Location:</b> Chamber C <b>Mode:</b> LTE_QPSK Band 4 Fundamentals, 10MHz Bandwidth								
	<b>Test Equipment:</b> <b>Receiving:</b> Horn T119, and Chamber C SMA Cables <b>Substitution:</b> Horn T59, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	<b>Low Ch</b>								
	1715.00	1.68	V	0.9	8.2	8.95	30.0	-21.0	
	1715.00	9.17	H	0.9	8.2	16.44	30.0	-13.6	
	<b>Mid Ch</b>								
	1732.50	1.43	V	0.9	8.2	8.70	30.0	-21.3	
1732.50	10.64	H	0.9	8.2	17.91	30.0	-12.1		
<b>High Ch</b>									
1750.00	1.94	V	0.9	8.1	9.13	30.0	-20.9		
1750.00	9.90	H	0.9	8.1	17.09	30.0	-12.9		

Band  LTE4  5MHz  16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>																																																																																																	
	<b>Company:</b>		Sony																																																																																															
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Band  LTE4  3MHz  16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>																																																																																																	
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Band  LTE4  3MHz  QPSK	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>								
	<b>Company:</b> Sony <b>Project #:</b> 15J20225 <b>Date:</b> 4/20/2015 <b>Test Engineer:</b> R. Alegre <b>Configuration:</b> EUT Only <b>Location:</b> Chamber C <b>Mode:</b> LTE_QPSK Band 4 Fundamentals, 3MHz Bandwidth								
	<b>Test Equipment:</b> <b>Receiving:</b> Horn T119, and Chamber C SMA Cables <b>Substitution:</b> Horn T59, 4ft SMA Cable Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	<b>Low Ch</b>								
	1711.50	1.70	V	0.9	8.2	9.05	30.0	-21.0	
	1711.50	8.63	H	0.9	8.2	15.98	30.0	-14.0	
	<b>Mid Ch</b>								
	1732.50	1.42	V	0.9	8.2	8.69	30.0	-21.3	
1732.50	10.33	H	0.9	8.2	17.60	30.0	-12.4		
<b>High Ch</b>									
1753.50	2.06	V	0.9	8.1	9.25	30.0	-20.7		
1753.50	11.49	H	0.9	8.1	18.68	30.0	-11.3		

Band  LTE4  1.4MHz  16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>																																																																																																	
	<b>Company:</b>		Sony																																																																																															
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Band  LTE4  1.4MHz  QPSK	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>																																																																																																					
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	<b>Mode:</b>		LTE_QPSK Band 4 Fundamentals, 1.4MHz Bandwidth																																																																																																			
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**LTE Band 2**

Band  LTE2  20MHz  16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>																																																																																																	
	<b>Company:</b>		Sony																																																																																															
	<b>Project #:</b>		15J20225																																																																																															
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	<b>Test Engineer:</b>		R. Alegre																																																																																															
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	<b>Location:</b>		Chamber A																																																																																															
	<b>Mode:</b>		LTE_16QAM Band 2 Fundamentals, 20MHz Bandwidth																																																																																															
	<b>Test Equipment:</b>		Receiving: Horn T136, and Chamber A SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse																																																																																															
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Band  LTE2  20MHz  QPSK	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>								
	<b>Company:</b> Sony <b>Project #:</b> 15J20225 <b>Date:</b> 4/18/2015 <b>Test Engineer:</b> R. Alegre <b>Configuration:</b> EUT only <b>Location:</b> Chamber A <b>Mode:</b> LTE_QPSK Band 2 Fundamentals, 20MHz Bandwidth								
	<b>Test Equipment:</b> <b>Receiving:</b> Horn T136, and Chamber A SMA Cables <b>Substitution:</b> Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1860.00	7.93	V	0.9	8.0	15.04	33.0	-18.0	
	1860.00	14.94	H	0.9	8.0	22.05	33.0	-11.0	
	Mid Ch								
	1880.00	8.21	V	0.9	8.0	15.32	33.0	-17.7	
1880.00	15.43	H	0.9	8.0	22.54	33.0	-10.5		
High Ch									
1900.00	7.36	V	0.9	8.0	14.47	33.0	-18.5		
1900.00	15.99	H	0.9	8.0	23.10	33.0	-9.9		

Band  LTE2  15MHz  16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>																																																																																																	
	<b>Company:</b>		Sony																																																																																															
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Band  LTE2  15MHz  QPSK	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>																																																																																																	
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Band  LTE2  10MHz  16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>																																																																																																	
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Band  LTE2  10MHz  QPSK	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>								
	<b>Company:</b> Sony <b>Project #:</b> 15J20225 <b>Date:</b> 4/18/2015 <b>Test Engineer:</b> R. Alegre <b>Configuration:</b> EUT only <b>Location:</b> Chamber A <b>Mode:</b> LTE_QPSK Band 2 Fundamentals, 10MHz Bandwidth								
	<b>Test Equipment:</b> <b>Receiving:</b> Horn T136, and Chamber A SMA Cables <b>Substitution:</b> Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	Low Ch								
	1855.00	7.91	V	0.9	8.0	15.02	33.0	-18.0	
	1855.00	14.76	H	0.9	8.0	21.87	33.0	-11.1	
	Mid Ch								
	1880.00	8.16	V	0.9	8.0	15.27	33.0	-17.7	
1880.00	15.45	H	0.9	8.0	22.56	33.0	-10.4		
High Ch									
1905.00	7.31	V	0.9	8.0	14.42	33.0	-18.6		
1905.00	15.05	H	0.9	8.0	22.16	33.0	-10.8		

Band  LTE2  5MHz  16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>								
	<b>Company:</b> Sony <b>Project #:</b> 15J20225 <b>Date:</b> 4/18/2015 <b>Test Engineer:</b> R. Alegre <b>Configuration:</b> EUT only <b>Location:</b> Chamber A <b>Mode:</b> LTE_16QAM Band 2 Fundamentals, 5MHz Bandwidth								
	<b>Test Equipment:</b> <b>Receiving:</b> Horn T136, and Chamber A SMA Cables <b>Substitution:</b> Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	<b>Low Ch</b>								
	1852.50	7.03	V	0.9	8.0	14.14	33.0	-18.9	
	1852.50	13.85	H	0.9	8.0	20.96	33.0	-12.0	
	<b>Mid Ch</b>								
	1880.00	7.43	V	0.9	8.0	14.54	33.0	-18.5	
1880.00	14.40	H	0.9	8.0	21.51	33.0	-11.5		
<b>High Ch</b>									
1907.50	6.55	V	0.9	8.0	13.66	33.0	-19.3		
1907.50	13.91	H	0.9	8.0	21.02	33.0	-12.0		

Band  LTE2  5MHz  QPSK	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>																																																																																																	
	<b>Company:</b> Sony																																																																																																	
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Band  LTE2  3MHz  16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>																																																																																																	
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Band  LTE2  3MHz  QPSK	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>																																																																																																	
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Band  LTE2  1.4MHz  16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>																																																																																																					
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Band  LTE2  1.4MHz  QPSK	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc.</b>								
	<b>Company:</b> Sony <b>Project #:</b> 15J20225 <b>Date:</b> 4/18/2015 <b>Test Engineer:</b> R. Alegre <b>Configuration:</b> EUT only <b>Location:</b> Chamber A <b>Mode:</b> LTE_QPSK Band 2 Fundamentals, 1.4MHz Bandwidth								
	<b>Test Equipment:</b> Receiving: Horn T136, and Chamber A SMA Cables Substitution: Horn T59, Xft SMA Cable (SN # SERIALNUMBER) Warehouse								
	f	SG reading	Ant. Pol.	Cable Loss	Antenna Gain	EIRP	Limit	Delta	Notes
	MHz	(dBm)	(H/V)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	
	<b>Low Ch</b>								
	1850.70	7.88	V	0.9	8.0	14.99	33.0	-18.0	
	1850.70	14.60	H	0.9	8.0	21.71	33.0	-11.3	
	<b>Mid Ch</b>								
	1880.00	8.19	V	0.9	8.0	15.30	33.0	-17.7	
1880.00	15.24	H	0.9	8.0	22.35	33.0	-10.7		
<b>High Ch</b>									
1909.30	7.36	V	0.9	8.0	14.47	33.0	-18.5		
1909.30	14.71	H	0.9	8.0	21.82	33.0	-11.2		



Band  LTE7  20MHz  QPSK	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc. Chamber A</b>																																																																																																	
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Band  LTE7  15MHz  16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc. Chamber A</b>																																																																																																	
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Band  LTE7  10MHz  QPSK	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc. Chamber A</b>																																																																																																	
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Band  LTE7  5MHz  16QAM	<b>High Frequency Substitution Measurement</b> <b>UL Verification Services, Inc. Chamber A</b>																																																																																																	
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**11.2. FIELD STRENGTH OF SPURIOUS RADIATION**

**RULE PART(S)**

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

**LIMIT**

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

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

### **TEST PROCEDURE**

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

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

### **MODES TESTED**

GSM, WCDMA and LTE

### **RESULTS**

### 11.2.1. SPURIOUS RADIATION PLOTS

**GSM**

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/19/2015							
<b>Test Engineer:</b>		O. Stoelting							
<b>Configuration:</b>		X-pos EUT w/ AC Charger + HS							
<b>Location:</b>		Chamber A							
<b>Mode:</b>		EGPRS 1900 MHz Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 1850.2</b>									
3700.40	-19.8	V	3.0	35.9	1.0	-54.6	-13.0	-41.6	
5550.60	-19.9	V	3.0	35.5	1.0	-54.4	-13.0	-41.4	
7400.80	-20.0	V	3.0	35.7	1.0	-54.7	-13.0	-41.7	
<b>1900</b>									
3700.40	-20.2	H	3.0	35.9	1.0	-55.0	-13.0	-42.0	
5550.60	-19.2	H	3.0	35.5	1.0	-53.7	-13.0	-40.7	
7400.80	-18.2	H	3.0	35.7	1.0	-52.9	-13.0	-39.9	
<b>EGPRS</b>									
<b>Mid Ch, 1880</b>									
3760.00	-19.7	V	3.0	35.8	1.0	-54.5	-13.0	-41.5	
5640.00	-17.1	V	3.0	35.5	1.0	-51.6	-13.0	-38.6	
7520.00	-19.4	V	3.0	35.7	1.0	-54.2	-13.0	-41.2	
3760.00	-18.3	H	3.0	35.8	1.0	-53.1	-13.0	-40.1	
5640.00	-19.0	H	3.0	35.5	1.0	-53.5	-13.0	-40.5	
7520.00	-17.5	H	3.0	35.7	1.0	-52.2	-13.0	-39.2	
<b>High Ch, 1909.8</b>									
3819.60	-18.1	V	3.0	35.8	1.0	-52.9	-13.0	-39.9	
5729.40	-19.5	V	3.0	35.5	1.0	-54.0	-13.0	-41.0	
7639.20	-19.0	V	3.0	35.8	1.0	-53.7	-13.0	-40.7	
3819.60	-13.0	H	3.0	35.8	1.0	-47.8	-13.0	-34.8	
5729.40	-18.3	H	3.0	35.5	1.0	-52.8	-13.0	-39.8	
7639.20	-17.3	H	3.0	35.8	1.0	-52.1	-13.0	-39.1	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/19/2015							
<b>Test Engineer:</b>		O. Stoelting							
<b>Configuration:</b>		X-pos EUT w/ AC Charger + HS							
<b>Location:</b>		Chamber A							
<b>Mode:</b>		GPRS 1900 MHz Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Band</b>									
<b>Low Ch, 1850.2</b>									
3700.40	-17.9	V	3.0	35.9	1.0	-52.8	-13.0	-39.8	
5550.60	-18.9	V	3.0	35.5	1.0	-53.3	-13.0	-40.3	
<b>GSM</b>									
7400.80	-19.8	V	3.0	35.7	1.0	-54.5	-13.0	-41.5	
3700.40	-19.9	H	3.0	35.9	1.0	-54.7	-13.0	-41.7	
5550.60	-17.5	H	3.0	35.5	1.0	-52.0	-13.0	-39.0	
<b>1900</b>									
7400.80	-18.1	H	3.0	35.7	1.0	-52.8	-13.0	-39.8	
<b>Mid Ch, 1880</b>									
3760.00	-17.6	V	3.0	35.8	1.0	-52.4	-13.0	-39.4	
5640.00	-17.5	V	3.0	35.5	1.0	-52.0	-13.0	-39.0	
7520.00	-19.4	V	3.0	35.7	1.0	-54.2	-13.0	-41.2	
3760.00	-15.7	H	3.0	35.8	1.0	-50.5	-13.0	-37.5	
5640.00	-16.4	H	3.0	35.5	1.0	-50.9	-13.0	-37.9	
7520.00	-18.2	H	3.0	35.7	1.0	-52.9	-13.0	-39.9	
<b>High Ch, 1909.8</b>									
3819.60	-17.2	V	3.0	35.8	1.0	-52.0	-13.0	-39.0	
5729.40	-16.8	V	3.0	35.5	1.0	-51.3	-13.0	-38.3	
7639.20	-18.9	V	3.0	35.8	1.0	-53.6	-13.0	-40.6	
3819.60	-10.3	H	3.0	35.8	1.0	-45.1	-13.0	-32.1	
5729.40	-15.4	H	3.0	35.5	1.0	-49.9	-13.0	-36.9	
7639.20	-17.5	H	3.0	35.8	1.0	-52.2	-13.0	-39.2	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		SONY							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/21/2015							
<b>Test Engineer:</b>		G. Escano							
<b>Configuration:</b>		EUT + Charger							
<b>Location:</b>		Chamber C							
<b>Mode:</b>		EGPRS 850 MHz Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 824.2									
1648.40	-29.8	V	3.0	37.0	1.0	-65.8	-13.0	-52.8	
2472.60	-24.1	V	3.0	36.4	1.0	-59.6	-13.0	-46.6	
GSM									
3296.80	-22.7	V	3.0	36.2	1.0	-57.8	-13.0	-44.8	
1648.40	-30.0	H	3.0	37.0	1.0	-66.0	-13.0	-53.0	
2472.60	-25.1	H	3.0	36.4	1.0	-60.5	-13.0	-47.5	
850									
3296.80	-23.8	H	3.0	36.2	1.0	-58.9	-13.0	-45.9	
EGPRS									
Mid Ch, 836.6									
1673.20	-30.2	V	3.0	37.0	1.0	-66.2	-13.0	-53.2	
2509.80	-24.0	V	3.0	36.4	1.0	-59.4	-13.0	-46.4	
3346.40	-23.2	V	3.0	36.1	1.0	-58.4	-13.0	-45.4	
1673.20	-30.8	H	3.0	37.0	1.0	-66.8	-13.0	-53.8	
2509.80	-26.5	H	3.0	36.4	1.0	-61.9	-13.0	-48.9	
3346.40	-24.1	H	3.0	36.1	1.0	-59.2	-13.0	-46.2	
High Ch, 848.8									
1697.60	-29.3	V	3.0	37.0	1.0	-65.2	-13.0	-52.2	
2546.40	-24.6	V	3.0	36.4	1.0	-60.0	-13.0	-47.0	
3395.20	-22.9	V	3.0	36.1	1.0	-57.9	-13.0	-44.9	
1697.60	-29.7	H	3.0	37.0	1.0	-65.6	-13.0	-52.6	
2546.40	-26.3	H	3.0	36.4	1.0	-61.7	-13.0	-48.7	
3395.20	-23.5	H	3.0	36.1	1.0	-58.6	-13.0	-45.6	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		SONY							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/21/2015							
<b>Test Engineer:</b>		A. Escamilla							
<b>Configuration:</b>		EUT + Charger							
<b>Location:</b>		Chamber C							
<b>Mode:</b>		GPRS 850 MHz Harmonics							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 824.2									
1648.40	-28.8	V	3.0	37.0	1.0	-64.8	-13.0	-51.8	
2472.60	-23.7	V	3.0	36.4	1.0	-59.1	-13.0	-46.1	
GSM									
3296.80	-22.2	V	3.0	36.2	1.0	-57.3	-13.0	-44.3	
1648.40	-28.6	H	3.0	37.0	1.0	-64.7	-13.0	-51.7	
2472.60	-25.4	H	3.0	36.4	1.0	-60.8	-13.0	-47.8	
850									
3296.80	-22.0	H	3.0	36.2	1.0	-57.2	-13.0	-44.2	
Mid Ch, 836.6									
1673.20	-29.9	V	3.0	37.0	1.0	-65.9	-13.0	-52.9	
2509.80	-24.0	V	3.0	36.4	1.0	-59.4	-13.0	-46.4	
3346.40	-23.3	V	3.0	36.1	1.0	-58.4	-13.0	-45.4	
1673.20	-30.7	H	3.0	37.0	1.0	-66.7	-13.0	-53.7	
2509.80	-25.4	H	3.0	36.4	1.0	-60.8	-13.0	-47.8	
3346.40	-23.7	H	3.0	36.1	1.0	-58.8	-13.0	-45.8	
GPRS									
High Ch, 848.8									
1697.60	-29.0	V	3.0	37.0	1.0	-64.9	-13.0	-51.9	
2546.40	-24.3	V	3.0	36.4	1.0	-59.7	-13.0	-46.7	
3395.20	-22.8	V	3.0	36.1	1.0	-57.9	-13.0	-44.9	
1697.60	-28.8	H	3.0	37.0	1.0	-64.8	-13.0	-51.8	
2546.40	-26.0	H	3.0	36.4	1.0	-61.4	-13.0	-48.4	
3395.20	-22.5	H	3.0	36.1	1.0	-57.6	-13.0	-44.6	

**WCDMA**

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		15J20225								
Date:		4/19/2015								
Test Engineer:		O. Stoelting								
Configuration:		X-pos EUT w/ AC Charger + HS								
Mode:		HSDPA_B2								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber A		T34 8449B			Filter 1		Part 24			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1852.4MHz									
Band 2	3.705	-21.4	V	3.0	35.4	1.0	-55.8	-13.0	-42.8	
	5.557	-20.1	V	3.0	34.7	1.0	-53.8	-13.0	-40.8	
HSDPA	7.410	-18.9	V	3.0	34.9	1.0	-52.8	-13.0	-39.8	
	3.705	-21.7	H	3.0	35.4	1.0	-56.1	-13.0	-43.1	
	5.557	-19.5	H	3.0	34.7	1.0	-53.2	-13.0	-40.2	
	7.410	-17.8	H	3.0	34.9	1.0	-51.7	-13.0	-38.7	
	Mid Ch, 1880MHz									
	3.760	-21.3	V	3.0	35.3	1.0	-55.6	-13.0	-42.6	
	5.640	-19.9	V	3.0	34.7	1.0	-53.7	-13.0	-40.7	
	7.520	-18.4	V	3.0	34.9	1.0	-52.3	-13.0	-39.3	
	3.760	-19.3	H	3.0	35.3	1.0	-53.7	-13.0	-40.7	
	5.640	-19.5	H	3.0	34.7	1.0	-53.2	-13.0	-40.2	
	7.520	-17.4	H	3.0	34.9	1.0	-51.4	-13.0	-38.4	
	High Ch, 1907.6MHz									
	3.815	-21.0	V	3.0	35.3	1.0	-55.3	-13.0	-42.3	
	5.723	-19.7	V	3.0	34.7	1.0	-53.4	-13.0	-40.4	
	7.630	-18.2	V	3.0	34.9	1.0	-52.1	-13.0	-39.1	
	3.815	-21.3	H	3.0	35.3	1.0	-55.6	-13.0	-42.6	
	5.723	-19.2	H	3.0	34.7	1.0	-53.0	-13.0	-40.0	
	7.630	-17.3	H	3.0	34.9	1.0	-51.2	-13.0	-38.2	
Rev. 03.03.09										

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		15J20225								
<b>Date:</b>		4/19/2015								
<b>Test Engineer:</b>		O. Stoelting								
<b>Configuration:</b>		X-pos EUT w/ AC Charger + HS								
<b>Mode:</b>		REL99_B2								
<b>Chamber</b>		<b>Pre-amplifier</b>			<b>Filter</b>		<b>Limit</b>			
5m Chamber A		T34 8449B			Filter 1		Part 24			
Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
REL99	<b>Low Ch, 1852.4MHz</b>									
	3.705	-21.5	V	3.0	35.4	1.0	-55.9	-13.0	-42.9	
	5.557	-20.0	V	3.0	34.7	1.0	-53.7	-13.0	-40.7	
	7.410	-18.9	V	3.0	34.9	1.0	-52.8	-13.0	-39.8	
	3.705	-21.8	H	3.0	35.4	1.0	-56.2	-13.0	-43.2	
	5.557	-19.6	H	3.0	34.7	1.0	-53.3	-13.0	-40.3	
	7.410	-18.0	H	3.0	34.9	1.0	-51.9	-13.0	-38.9	
	<b>Mid Ch, 1880MHz</b>									
	3.760	-21.2	V	3.0	35.3	1.0	-55.5	-13.0	-42.5	
	5.640	-20.2	V	3.0	34.7	1.0	-53.9	-13.0	-40.9	
	7.520	-18.2	V	3.0	34.9	1.0	-52.1	-13.0	-39.1	
	3.760	-21.3	H	3.0	35.3	1.0	-55.7	-13.0	-42.7	
	5.640	-19.6	H	3.0	34.7	1.0	-53.3	-13.0	-40.3	
	7.520	-17.0	H	3.0	34.9	1.0	-50.9	-13.0	-37.9	
	<b>High Ch, 1907.6MHz</b>									
	3.815	-20.8	V	3.0	35.3	1.0	-55.1	-13.0	-42.1	
	5.723	-19.9	V	3.0	34.7	1.0	-53.6	-13.0	-40.6	
	7.630	-18.2	V	3.0	34.9	1.0	-52.1	-13.0	-39.1	
3.815	-18.9	H	3.0	35.3	1.0	-53.2	-13.0	-40.2		
5.723	-19.1	H	3.0	34.7	1.0	-52.8	-13.0	-39.8		
7.630	-17.2	H	3.0	34.9	1.0	-51.1	-13.0	-38.1		
Rev. 03.03.09										

<b>Company:</b> Sony <b>Project #:</b> 15J20225 <b>Date:</b> 04/30/15 <b>Test Engineer:</b> David Mun <b>Configuration:</b> X-pos EUT, Ac Charger, Headset <b>Mode:</b> HSDPA B5										
<b>Chamber</b> 3m Chamber		<b>Pre-amplifier</b> T34 8449B		<b>Filter</b> Filter 1		<b>Limit</b> 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	Low Ch, 826.4MHz									
	1.653	-31.6	V	3.0	37.4	1.0	-68.0	-13.0	-55.0	
Band 5	2.479	-24.8	V	3.0	36.4	1.0	-60.2	-13.0	-47.2	
	3.306	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3	
HSDPA	1.653	-31.7	H	3.0	37.4	1.0	-68.0	-13.0	-55.0	
	2.479	-26.7	H	3.0	36.4	1.0	-62.1	-13.0	-49.1	
	3.306	-21.9	H	3.0	35.8	1.0	-56.7	-13.0	-43.7	
	Mid Ch, 836.6MHz									
	1.673	-30.2	V	3.0	37.3	1.0	-66.6	-13.0	-53.6	
	2.510	-24.0	V	3.0	36.4	1.0	-59.3	-13.0	-46.3	
	3.346	-21.2	V	3.0	35.8	1.0	-55.9	-13.0	-42.9	
	1.673	-30.8	H	3.0	37.3	1.0	-67.1	-13.0	-54.1	
	2.510	-26.2	H	3.0	36.4	1.0	-61.5	-13.0	-48.5	
	3.346	-22.0	H	3.0	35.8	1.0	-56.7	-13.0	-43.7	
	High Ch, 846.6MHz									
	1.693	-31.1	V	3.0	37.3	1.0	-67.4	-13.0	-54.4	
	2.540	-25.2	V	3.0	36.3	1.0	-60.5	-13.0	-47.5	
	3.386	-22.7	V	3.0	35.7	1.0	-57.4	-13.0	-44.4	
	1.693	-31.6	H	3.0	37.3	1.0	-67.9	-13.0	-54.9	
	2.540	-26.8	H	3.0	36.3	1.0	-62.1	-13.0	-49.1	
	3.386	-21.6	H	3.0	35.7	1.0	-56.3	-13.0	-43.3	

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		15J20225								
<b>Date:</b>		04/21/15								
<b>Test Engineer:</b>		Angel Escamilla								
<b>Configuration:</b>		X-pos EUT, Ac Charger, Headset								
<b>Mode:</b>		REL99_B5								
<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
REL99	Low Ch, 826.4MHz									
	1.653	-26.3	V	3.0	37.4	1.0	-62.7	-13.0	-49.7	
	2.479	-22.8	V	3.0	36.4	1.0	-58.2	-13.0	-45.2	
	3.306	-21.1	V	3.0	35.8	1.0	-55.9	-13.0	-42.9	
	1.653	-24.7	H	3.0	37.4	1.0	-61.0	-13.0	-48.0	
	2.479	-24.2	H	3.0	36.4	1.0	-59.6	-13.0	-46.6	
	3.306	-21.2	H	3.0	35.8	1.0	-56.0	-13.0	-43.0	
	Mid Ch, 836.6MHz									
	1.673	-28.1	V	3.0	37.3	1.0	-64.4	-13.0	-51.4	
	2.510	-24.0	V	3.0	36.4	1.0	-59.3	-13.0	-46.3	
	3.346	-21.6	V	3.0	35.8	1.0	-56.3	-13.0	-43.3	
	1.673	-25.3	H	3.0	37.3	1.0	-61.6	-13.0	-48.6	
	2.510	-25.5	H	3.0	36.4	1.0	-60.8	-13.0	-47.8	
	3.346	-21.1	H	3.0	35.8	1.0	-55.9	-13.0	-42.9	
	High Ch, 846.6MHz									
	1.693	-27.4	V	3.0	37.3	1.0	-63.7	-13.0	-50.7	
	2.540	-23.7	V	3.0	36.3	1.0	-59.0	-13.0	-46.0	
	3.386	-21.6	V	3.0	35.7	1.0	-56.4	-13.0	-43.4	
1.693	-22.8	H	3.0	37.3	1.0	-59.1	-13.0	-46.1		
2.540	-24.8	H	3.0	36.3	1.0	-60.2	-13.0	-47.2		
3.386	-21.8	H	3.0	35.7	1.0	-56.5	-13.0	-43.5		
Rev. 03.03.09										

**LTE Band 12**

<b>UL Verification Services Chamber G</b>										
<b>Above 1GHz High Frequency Substitution Measurement</b>										
<b>Company:</b>		Sony								
<b>Project #:</b>		15J20225								
<b>Date:</b>		4/22/2015								
<b>Test Engineer:</b>		Jude Semana/David Mun								
<b>Configuration:</b>		X-pos EUT/ AC Charger/ HS								
<b>Location:</b>		Chamber G								
<b>Mode:</b>		LTE_16QAM Band 12 Harmonics, 10MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	<b>Low Ch,704</b>									
LTE12	1408.00	-28.8	V	3.0	37.4	1.0	-65.2	-13.0	-52.2	
	2112.00	-22.7	V	3.0	36.6	1.0	-58.3	-13.0	-45.3	
10MHz	2816.00	-21.2	V	3.0	36.4	1.0	-56.6	-13.0	-43.6	
	1408.00	-27.7	H	3.0	37.4	1.0	-64.0	-13.0	-51.0	
16QAM	2112.00	-23.7	H	3.0	36.6	1.0	-59.3	-13.0	-46.3	
	2816.00	-22.1	H	3.0	36.4	1.0	-57.4	-13.0	-44.4	
	<b>Mid Ch,707.5</b>									
	1415.00	-29.6	V	3.0	37.3	1.0	-65.9	-13.0	-52.9	
	2122.50	-22.7	V	3.0	36.6	1.0	-58.3	-13.0	-45.3	
	2830.00	-21.4	V	3.0	36.4	1.0	-56.7	-13.0	-43.7	
	1415.00	-29.0	H	3.0	37.3	1.0	-65.3	-13.0	-52.3	
	2122.50	-24.2	H	3.0	36.6	1.0	-59.8	-13.0	-46.8	
	2830.00	-21.8	H	3.0	36.4	1.0	-57.2	-13.0	-44.2	
	<b>High Ch,711</b>									
	1422.00	-29.0	V	3.0	37.3	1.0	-65.3	-13.0	-52.3	
	2133.00	-22.9	V	3.0	36.6	1.0	-58.5	-13.0	-45.5	
	2844.00	-21.1	V	3.0	36.4	1.0	-56.5	-13.0	-43.5	
	1422.00	-28.3	H	3.0	37.3	1.0	-64.6	-13.0	-51.6	
	2133.00	-24.2	H	3.0	36.6	1.0	-59.8	-13.0	-46.8	
	2844.00	-22.2	H	3.0	36.4	1.0	-57.6	-13.0	-44.6	

UL Verification Services Chamber G										
Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		15J20225								
Date:		4/22/2015								
Test Engineer:		Jude Semana/David Mun								
Configuration:		X-pos EUT/ AC Charger/ HS								
Location:		Chamber G								
Mode:		LTE_QPSK Band 12 Harmonics, 10MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch,704									
LTE12	1408.00	-29.5	V	3.0	37.4	1.0	-65.9	-13.0	-52.9	
	2112.00	-22.9	V	3.0	36.6	1.0	-58.5	-13.0	-45.5	
10MHz	2816.00	-21.3	V	3.0	36.4	1.0	-56.7	-13.0	-43.7	
	1408.00	-27.8	H	3.0	37.4	1.0	-64.2	-13.0	-51.2	
QPSK	2112.00	-23.7	H	3.0	36.6	1.0	-59.2	-13.0	-46.2	
	2816.00	-22.4	H	3.0	36.4	1.0	-57.8	-13.0	-44.8	
	Mid Ch,707.5									
	1415.00	-29.3	V	3.0	37.3	1.0	-65.7	-13.0	-52.7	
	2122.50	-22.2	V	3.0	36.6	1.0	-57.8	-13.0	-44.8	
	2830.00	-21.4	V	3.0	36.4	1.0	-56.8	-13.0	-43.8	
	1415.00	-28.2	H	3.0	37.3	1.0	-64.5	-13.0	-51.5	
	2122.50	-24.1	H	3.0	36.6	1.0	-59.7	-13.0	-46.7	
	2830.00	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	
	High Ch,711									
	1422.00	-29.5	V	3.0	37.3	1.0	-65.8	-13.0	-52.8	
	2133.00	-23.0	V	3.0	36.6	1.0	-58.6	-13.0	-45.6	
	2844.00	-20.9	V	3.0	36.4	1.0	-56.3	-13.0	-43.3	
	1422.00	-28.5	H	3.0	37.3	1.0	-64.8	-13.0	-51.8	
	2133.00	-24.3	H	3.0	36.6	1.0	-59.9	-13.0	-46.9	
	2844.00	-21.8	H	3.0	36.4	1.0	-57.2	-13.0	-44.2	

UL Verification Services Chamber G										
Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		15J20225								
Date:		4/22/2015								
Test Engineer:		Jude Semana/David Mun								
Configuration:		X-pos EUT/ AC Charger/ HS								
Location:		Chamber G								
Mode:		LTE_16QAM Band 12 Harmonics, 5MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 701.50									
LTE12	1403.00	-29.0	V	3.0	37.4	1.0	-65.4	-13.0	-52.4	
	2104.50	-22.5	V	3.0	36.6	1.0	-58.1	-13.0	-45.1	
5MHz	2806.00	-21.1	V	3.0	36.4	1.0	-56.4	-13.0	-43.4	
	1403.00	-28.4	H	3.0	37.4	1.0	-64.8	-13.0	-51.8	
16QAM	2104.50	-23.4	H	3.0	36.6	1.0	-59.0	-13.0	-46.0	
	2806.00	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3	
	Mid Ch, 707.50									
	1415.00	-29.3	V	3.0	37.3	1.0	-65.7	-13.0	-52.7	
	2122.50	-23.4	V	3.0	36.6	1.0	-58.9	-13.0	-45.9	
	2830.00	-21.3	V	3.0	36.4	1.0	-56.6	-13.0	-43.6	
	1415.00	-28.9	H	3.0	37.3	1.0	-65.2	-13.0	-52.2	
	2122.50	-24.4	H	3.0	36.6	1.0	-60.0	-13.0	-47.0	
	2830.00	-22.2	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	
	High Ch, 713.50									
	1427.00	-29.1	V	3.0	37.3	1.0	-65.4	-13.0	-52.4	
	2140.50	-22.4	V	3.0	36.6	1.0	-58.0	-13.0	-45.0	
	2854.00	-21.0	V	3.0	36.4	1.0	-56.3	-13.0	-43.3	
	1427.00	-28.6	H	3.0	37.3	1.0	-65.0	-13.0	-52.0	
	2140.50	-23.7	H	3.0	36.6	1.0	-59.3	-13.0	-46.3	
	2854.00	-21.8	H	3.0	36.4	1.0	-57.2	-13.0	-44.2	

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

**Company:** Sony  
**Project #:** 15J20225  
**Date:** 4/22/2015  
**Test Engineer:** Jude Semana/David Mun  
**Configuration:** X-pos EUT/ AC Charger/ HS  
**Location:** Chamber G  
**Mode:** LTE\_QPSK Band 12 Harmonics, 5MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	<b>Low Ch, 701.50</b>									
LTE12	1403.00	-28.8	V	3.0	37.4	1.0	-65.2	-13.0	-52.2	
	2104.50	-22.2	V	3.0	36.6	1.0	-57.7	-13.0	-44.7	
5MHz	2806.00	-21.5	V	3.0	36.4	1.0	-56.9	-13.0	-43.9	
	1403.00	-28.1	H	3.0	37.4	1.0	-64.4	-13.0	-51.4	
QPSK	2104.50	-23.7	H	3.0	36.6	1.0	-59.3	-13.0	-46.3	
	2806.00	-21.9	H	3.0	36.4	1.0	-57.2	-13.0	-44.2	
	<b>Mid Ch, 707.50</b>									
	1415.00	-29.5	V	3.0	37.3	1.0	-65.8	-13.0	-52.8	
	2122.50	-23.5	V	3.0	36.6	1.0	-59.0	-13.0	-46.0	
	2830.00	-21.7	V	3.0	36.4	1.0	-57.1	-13.0	-44.1	
	1415.00	-28.6	H	3.0	37.3	1.0	-65.0	-13.0	-52.0	
	2122.50	-23.9	H	3.0	36.6	1.0	-59.5	-13.0	-46.5	
	2830.00	-22.2	H	3.0	36.4	1.0	-57.6	-13.0	-44.6	
	<b>High Ch, 713.50</b>									
	1427.00	-28.8	V	3.0	37.3	1.0	-65.1	-13.0	-52.1	
	2140.50	-22.3	V	3.0	36.6	1.0	-57.8	-13.0	-44.8	
	2854.00	-20.0	V	3.0	36.4	1.0	-55.4	-13.0	-42.4	
	1427.00	-28.1	H	3.0	37.3	1.0	-64.4	-13.0	-51.4	
	2140.50	-24.0	H	3.0	36.6	1.0	-59.6	-13.0	-46.6	
	2854.00	-21.8	H	3.0	36.4	1.0	-57.2	-13.0	-44.2	

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

**Company:** Sony  
**Project #:** 15J20225  
**Date:** 4/22/2015  
**Test Engineer:** Jude Semana/David Mun  
**Configuration:** X-pos EUT/ AC Charger/ HS  
**Location:** Chamber G  
**Mode:** LTE\_16QAM Band 12 Harmonics, 3MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	<b>Low Ch, 700.5</b>									
LTE12	1401.00	-29.5	V	3.0	37.4	1.0	-65.9	-13.0	-52.9	
	2101.50	-23.2	V	3.0	36.6	1.0	-58.8	-13.0	-45.8	
3MHz	2802.00	-21.6	V	3.0	36.4	1.0	-57.0	-13.0	-44.0	
	1401.00	-28.8	H	3.0	37.4	1.0	-65.2	-13.0	-52.2	
16QAM	2101.50	-24.1	H	3.0	36.6	1.0	-59.7	-13.0	-46.7	
	2802.00	-22.6	H	3.0	36.4	1.0	-58.0	-13.0	-45.0	
	<b>Mid Ch, 707.50</b>									
	1415.00	-29.0	V	3.0	37.3	1.0	-65.3	-13.0	-52.3	
	2122.00	-23.0	V	3.0	36.6	1.0	-58.6	-13.0	-45.6	
	2830.00	-21.2	V	3.0	36.4	1.0	-56.6	-13.0	-43.6	
	1415.00	-28.3	H	3.0	37.3	1.0	-64.7	-13.0	-51.7	
	2122.00	-23.8	H	3.0	36.6	1.0	-59.3	-13.0	-46.3	
	2830.00	-22.6	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	
	<b>High Ch, 714.5</b>									
	1429.00	-29.4	V	3.0	37.3	1.0	-65.7	-13.0	-52.7	
	2143.50	-22.7	V	3.0	36.6	1.0	-58.2	-13.0	-45.2	
	2858.00	-20.4	V	3.0	36.4	1.0	-55.7	-13.0	-42.7	
	1429.00	-28.9	H	3.0	37.3	1.0	-65.2	-13.0	-52.2	
	2143.50	-24.4	H	3.0	36.6	1.0	-59.9	-13.0	-46.9	
	2858.00	-22.1	H	3.0	36.4	1.0	-57.5	-13.0	-44.5	

UL Verification Services Chamber G										
Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b> Sony <b>Project #:</b> 15J20225 <b>Date:</b> 4/22/2015 <b>Test Engineer:</b> Jude Semana/David Mun <b>Configuration:</b> X-pos EUT/ AC Charger/ HS <b>Location:</b> Chamber G <b>Mode:</b> LTE_QPSK Band 12 Harmonics, 3MHz Bandwidth										
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 700.5</b>										
LTE12	1401.00	-29.7	V	3.0	37.4	1.0	-66.0	-13.0	-53.0	
	2101.50	-22.6	V	3.0	36.6	1.0	-58.2	-13.0	-45.2	
3MHz	2802.00	-21.2	V	3.0	36.4	1.0	-56.6	-13.0	-43.6	
	1401.00	-28.6	H	3.0	37.4	1.0	-65.0	-13.0	-52.0	
QPSK	2101.50	-24.0	H	3.0	36.6	1.0	-59.6	-13.0	-46.6	
	2802.00	-22.5	H	3.0	36.4	1.0	-57.9	-13.0	-44.9	
<b>Mid Ch, 707.50</b>										
	1415.00	-29.5	V	3.0	37.3	1.0	-65.8	-13.0	-52.8	
	2122.00	-22.7	V	3.0	36.6	1.0	-58.2	-13.0	-45.2	
	2830.00	-20.7	V	3.0	36.4	1.0	-56.1	-13.0	-43.1	
	1415.00	-28.3	H	3.0	37.3	1.0	-64.7	-13.0	-51.7	
	2122.00	-23.9	H	3.0	36.6	1.0	-59.5	-13.0	-46.5	
	2830.00	-21.8	H	3.0	36.4	1.0	-57.2	-13.0	-44.2	
<b>High Ch, 714.5</b>										
	1429.00	-29.7	V	3.0	37.3	1.0	-66.1	-13.0	-53.1	
	2143.50	-22.8	V	3.0	36.6	1.0	-58.4	-13.0	-45.4	
	2858.00	-20.5	V	3.0	36.4	1.0	-55.9	-13.0	-42.9	
	1429.00	-28.3	H	3.0	37.3	1.0	-64.6	-13.0	-51.6	
	2143.50	-24.4	H	3.0	36.6	1.0	-60.0	-13.0	-47.0	
	2858.00	-22.2	H	3.0	36.4	1.0	-57.6	-13.0	-44.6	

UL Verification Services Chamber G										
Above 1GHz High Frequency Substitution Measurement										
Company:		Sony								
Project #:		15J20225								
Date:		4/22/2015								
Test Engineer:		Jude Semana/David Mun								
Configuration:		X-pos EUT/ AC Charger/ HS								
Location:		Chamber G								
Mode:		LTE_16QAM Band 12 Harmonics, 1.4MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 699.7									
LTE12	1399.40	-29.9	V	3.0	37.4	1.0	-66.2	-13.0	-53.2	
	2099.10	-22.1	V	3.0	36.6	1.0	-57.7	-13.0	-44.7	
1.4MHz	2798.80	-21.3	V	3.0	36.4	1.0	-56.6	-13.0	-43.6	
	1399.40	-28.6	H	3.0	37.4	1.0	-64.9	-13.0	-51.9	
16QAM	2099.10	-24.2	H	3.0	36.6	1.0	-59.8	-13.0	-46.8	
	2798.80	-22.3	H	3.0	36.4	1.0	-57.7	-13.0	-44.7	
	Mid Ch, 707.50									
	1415.00	-30.5	V	3.0	37.3	1.0	-66.8	-13.0	-53.8	
	2122.00	-24.0	V	3.0	36.6	1.0	-59.6	-13.0	-46.6	
	2830.00	-22.6	V	3.0	36.4	1.0	-58.0	-13.0	-45.0	
	1415.00	-29.6	H	3.0	37.3	1.0	-66.0	-13.0	-53.0	
	2122.00	-25.4	H	3.0	36.6	1.0	-61.0	-13.0	-48.0	
	2830.00	-22.5	H	3.0	36.4	1.0	-57.8	-13.0	-44.8	
	High Ch, 715.3									
	1430.60	-27.0	V	3.0	37.3	1.0	-63.4	-13.0	-50.4	
	2145.90	-22.0	V	3.0	36.6	1.0	-57.5	-13.0	-44.5	
	2861.20	-21.3	V	3.0	36.4	1.0	-56.6	-13.0	-43.6	
	1430.60	-28.3	H	3.0	37.3	1.0	-64.7	-13.0	-51.7	
	2145.90	-24.0	H	3.0	36.6	1.0	-59.6	-13.0	-46.6	
	2861.20	-21.6	H	3.0	36.4	1.0	-57.0	-13.0	-44.0	

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

**Company:** Sony  
**Project #:** 15J20225  
**Date:** 4/22/2015  
**Test Engineer:** Jude Semana/David Mun  
**Configuration:** X-pos EUT/ AC Charger/ HS  
**Location:** Chamber G  
**Mode:** LTE\_QPSK Band 12 Harmonics, 1.4MHz Bandwidth

Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	<b>Low Ch, 699.7</b>									
LTE12	1399.40	-29.2	V	3.0	37.4	1.0	-65.5	-13.0	-52.5	
	2099.10	-22.6	V	3.0	36.6	1.0	-58.2	-13.0	-45.2	
1.4MHz	2798.80	-21.9	V	3.0	36.4	1.0	-57.2	-13.0	-44.2	
	1399.40	-27.5	H	3.0	37.4	1.0	-63.8	-13.0	-50.8	
QPSK	2099.10	-24.1	H	3.0	36.6	1.0	-59.7	-13.0	-46.7	
	2798.80	-22.2	H	3.0	36.4	1.0	-57.6	-13.0	-44.6	
	<b>Mid Ch, 707.50</b>									
	1415.00	-30.3	V	3.0	37.3	1.0	-66.6	-13.0	-53.6	
	2122.00	-24.4	V	3.0	36.6	1.0	-60.0	-13.0	-47.0	
	2830.00	-22.4	V	3.0	36.4	1.0	-57.8	-13.0	-44.8	
	1415.00	-29.1	H	3.0	37.3	1.0	-65.5	-13.0	-52.5	
	2122.00	-25.1	H	3.0	36.6	1.0	-60.7	-13.0	-47.7	
	2830.00	-23.3	H	3.0	36.4	1.0	-58.7	-13.0	-45.7	
	<b>High Ch, 715.3</b>									
	1430.60	-27.2	V	3.0	37.3	1.0	-63.6	-13.0	-50.6	
	2145.90	-22.3	V	3.0	36.6	1.0	-57.8	-13.0	-44.8	
	2861.20	-21.0	V	3.0	36.4	1.0	-56.4	-13.0	-43.4	
	1430.60	-26.6	H	3.0	37.3	1.0	-62.9	-13.0	-49.9	
	2145.90	-22.9	H	3.0	36.6	1.0	-58.5	-13.0	-45.5	
	2861.20	-21.9	H	3.0	36.4	1.0	-57.3	-13.0	-44.3	

**LTE Band 17**

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
Company:		Sony							
Project #:		15J20225							
Date:		4/22/2015							
Test Engineer:		Jude Semana/David Mun							
Configuration:		X-pos EUT/ AC Charger/ HS							
Mode:		LTE17 10M 16QAM HARM							
Chamber		Pre-amplifier			Filter		Limit		
3m Chamber		T34 8449B			Filter 1		Part 27		
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,709MHz</b>									
1.418	-28.6	V	3.0	37.8	1.0	-65.4	-13.0	-52.4	
2.127	-23.4	V	3.0	36.7	1.0	-59.1	-13.0	-46.1	
2.836	-20.7	V	3.0	36.2	1.0	-55.9	-13.0	-42.9	
1.418	-28.7	H	3.0	37.8	1.0	-65.4	-13.0	-52.4	
2.127	-24.3	H	3.0	36.7	1.0	-59.9	-13.0	-46.9	
2.836	-22.1	H	3.0	36.2	1.0	-57.3	-13.0	-44.3	
<b>Mid Ch,710MHz</b>									
1.420	-29.2	V	3.0	37.8	1.0	-66.0	-13.0	-53.0	
2.130	-23.1	V	3.0	36.7	1.0	-58.8	-13.0	-45.8	
2.840	-21.2	V	3.0	36.2	1.0	-56.4	-13.0	-43.4	
1.420	-28.8	H	3.0	37.8	1.0	-65.6	-13.0	-52.6	
2.130	-24.3	H	3.0	36.7	1.0	-60.0	-13.0	-47.0	
2.840	-21.1	H	3.0	36.2	1.0	-56.3	-13.0	-43.3	
<b>High Ch, 711MHz</b>									
1.422	-28.4	V	3.0	37.8	1.0	-65.1	-13.0	-52.1	
2.133	-23.4	V	3.0	36.7	1.0	-59.1	-13.0	-46.1	
2.844	-21.7	V	3.0	36.2	1.0	-56.9	-13.0	-43.9	
1.422	-28.1	H	3.0	37.8	1.0	-64.9	-13.0	-51.9	
2.133	-24.2	H	3.0	36.7	1.0	-59.9	-13.0	-46.9	
2.844	-21.8	H	3.0	36.2	1.0	-57.0	-13.0	-44.0	
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 #:		15J20225								
Date:		4/22/2015								
Test Engineer:		Jude Semana/David Mun								
Configuration:		X-pos EUT/ AC Charger/ HS								
Mode:		LTE17 10M QPSK HARM								
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, 709MHz									
LTE17	1.418	-29.1	V	3.0	37.8	1.0	-65.9	-13.0	-52.9	
	2.127	-22.6	V	3.0	36.7	1.0	-58.3	-13.0	-45.3	
10MHz	2.836	-21.7	V	3.0	36.2	1.0	-56.8	-13.0	-43.8	
	1.418	-28.9	H	3.0	37.8	1.0	-65.7	-13.0	-52.7	
	2.127	-23.8	H	3.0	36.7	1.0	-59.4	-13.0	-46.4	
QPSK	2.836	-22.4	H	3.0	36.2	1.0	-57.6	-13.0	-44.6	
	Mid Ch, 710MHz									
	1.420	-29.1	V	3.0	37.8	1.0	-65.9	-13.0	-52.9	
	2.130	-23.5	V	3.0	36.7	1.0	-59.2	-13.0	-46.2	
	2.840	-21.7	V	3.0	36.2	1.0	-56.8	-13.0	-43.8	
	1.420	-28.9	H	3.0	37.8	1.0	-65.6	-13.0	-52.6	
	2.130	-25.1	H	3.0	36.7	1.0	-60.8	-13.0	-47.8	
	2.840	-22.3	H	3.0	36.2	1.0	-57.5	-13.0	-44.5	
	High Ch, 711MHz									
	1.422	-28.3	V	3.0	37.8	1.0	-65.0	-13.0	-52.0	
	2.133	-23.0	V	3.0	36.7	1.0	-58.7	-13.0	-45.7	
	2.844	-21.3	V	3.0	36.2	1.0	-56.4	-13.0	-43.4	
	1.422	-28.6	H	3.0	37.8	1.0	-65.3	-13.0	-52.3	
	2.133	-23.7	H	3.0	36.7	1.0	-59.4	-13.0	-46.4	
	2.844	-22.0	H	3.0	36.2	1.0	-57.2	-13.0	-44.2	
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>		15J20225								
<b>Date:</b>		4/22/2015								
<b>Test Engineer:</b>		Jude Semana/David Mun								
<b>Configuration:</b>		X-pos EUT/ AC Charger/ HS								
<b>Mode:</b>		LTE17 5M 16QAM HARM								
<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
	Low Ch, 706.5MHz									
LTE17	1.413	-28.7	V	3.0	37.8	1.0	-65.5	-13.0	-52.5	
	2.120	-22.8	V	3.0	36.7	1.0	-58.5	-13.0	-45.5	
5MHz	2.826	-21.2	V	3.0	36.2	1.0	-56.4	-13.0	-43.4	
	1.413	-28.9	H	3.0	37.8	1.0	-65.7	-13.0	-52.7	
	2.120	-24.6	H	3.0	36.7	1.0	-60.3	-13.0	-47.3	
16QAM	2.826	-21.8	H	3.0	36.2	1.0	-57.0	-13.0	-44.0	
	Mid Ch, 710MHz									
	1.420	-28.7	V	3.0	37.8	1.0	-65.5	-13.0	-52.5	
	2.130	-23.3	V	3.0	36.7	1.0	-59.0	-13.0	-46.0	
	2.840	-21.1	V	3.0	36.2	1.0	-56.3	-13.0	-43.3	
	1.420	-28.9	H	3.0	37.8	1.0	-65.7	-13.0	-52.7	
	2.130	-23.6	H	3.0	36.7	1.0	-59.3	-13.0	-46.3	
	2.840	-21.9	H	3.0	36.2	1.0	-57.1	-13.0	-44.1	
	High Ch, 713.5MHz									
	1.427	-28.4	V	3.0	37.7	1.0	-65.2	-13.0	-52.2	
	2.141	-23.6	V	3.0	36.7	1.0	-59.3	-13.0	-46.3	
	2.854	-20.5	V	3.0	36.2	1.0	-55.6	-13.0	-42.6	
	1.427	-28.7	H	3.0	37.7	1.0	-65.5	-13.0	-52.5	
	2.141	-24.7	H	3.0	36.7	1.0	-60.4	-13.0	-47.4	
	2.854	-22.4	H	3.0	36.2	1.0	-57.6	-13.0	-44.6	
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 #:		15J20225								
Date:		4/22/2015								
Test Engineer:		Jude Semana/David Mun								
Configuration:		X-pos EUT/ AC Charger/ HS								
Mode:		LTE17 5M QPSK HARM								
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
	<b>Low Ch, 706.5MHz</b>									
LTE17	1.413	-28.8	V	3.0	37.8	1.0	-65.6	-13.0	-52.6	
	2.120	-23.1	V	3.0	36.7	1.0	-58.8	-13.0	-45.8	
	2.826	105.7	V	3.0	36.2	1.0	70.5	-13.0	83.5	
5MHz	1.413	-28.2	H	3.0	37.8	1.0	-65.0	-13.0	-52.0	
	2.120	-24.3	H	3.0	36.7	1.0	-60.0	-13.0	-47.0	
QPSK	2.826	-22.7	H	3.0	36.2	1.0	-57.9	-13.0	-44.9	
	<b>Mid Ch, 710MHz</b>									
	1.420	-28.5	V	3.0	37.8	1.0	-65.2	-13.0	-52.2	
	2.130	-23.2	V	3.0	36.7	1.0	-58.9	-13.0	-45.9	
	2.840	-21.4	V	3.0	36.2	1.0	-56.5	-13.0	-43.5	
	1.420	-28.7	H	3.0	37.8	1.0	-65.4	-13.0	-52.4	
	2.130	-23.7	H	3.0	36.7	1.0	-59.4	-13.0	-46.4	
	2.840	-21.9	H	3.0	36.2	1.0	-57.1	-13.0	-44.1	
	<b>High Ch, 713.5MHz</b>									
	1.427	-29.2	V	3.0	37.7	1.0	-65.9	-13.0	-52.9	
	2.141	-23.4	V	3.0	36.7	1.0	-59.1	-13.0	-46.1	
	2.854	-21.6	V	3.0	36.2	1.0	-56.8	-13.0	-43.8	
	1.427	-29.4	H	3.0	37.7	1.0	-66.1	-13.0	-53.1	
	2.141	-24.7	H	3.0	36.7	1.0	-60.3	-13.0	-47.3	
	2.854	-22.3	H	3.0	36.2	1.0	-57.5	-13.0	-44.5	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

**LTE Band 5**

UL Verification Services Above 1GHz High Frequency Substitution Measurement									
Company:		Sony							
Project #:		15J20225							
Date:		04/21/15							
Test Engineer:		J. hsu							
Configuration:		EUT + Charger + Headset							
Mode:		LTE5 16QAM 10MHz Harm							
Chamber		Pre-amplifier		Filter		Limit			
5m Chamber B		T34 8449B		Filter 1		Part 27			
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	-30.6	V	3.0	37.4	1.0	-67.0	-13.0	-54.0	
2.487	-15.4	V	3.0	36.4	1.0	-50.8	-13.0	-37.8	
3.316	-24.8	V	3.0	35.8	1.0	-59.5	-13.0	-46.5	
10MHz									
1.658	-27.8	H	3.0	37.4	1.0	-64.2	-13.0	-51.2	
2.487	-17.0	H	3.0	36.4	1.0	-52.4	-13.0	-39.4	
16QAM									
3.316	-24.2	H	3.0	35.8	1.0	-59.0	-13.0	-46.0	
Mid Ch, 836.5MHz									
1.673	-27.5	V	3.0	37.3	1.0	-63.9	-13.0	-50.9	
2.510	-17.5	V	3.0	36.4	1.0	-52.9	-13.0	-39.9	
3.346	-21.9	V	3.0	35.8	1.0	-56.7	-13.0	-43.7	
1.673	-26.5	H	3.0	37.3	1.0	-62.8	-13.0	-49.8	
2.510	-17.2	H	3.0	36.4	1.0	-52.6	-13.0	-39.6	
3.346	-22.8	H	3.0	35.8	1.0	-57.5	-13.0	-44.5	
High Ch, 844MHz									
1.688	-26.1	V	3.0	37.3	1.0	-62.4	-13.0	-49.4	
2.532	-15.2	V	3.0	36.3	1.0	-50.6	-13.0	-37.6	
3.376	-24.0	V	3.0	35.7	1.0	-58.7	-13.0	-45.7	
1.688	-23.0	H	3.0	37.3	1.0	-59.3	-13.0	-46.3	
2.532	-16.0	H	3.0	36.3	1.0	-51.3	-13.0	-38.3	
3.376	-22.1	H	3.0	35.7	1.0	-56.9	-13.0	-43.9	
Rev. 03.03.09									
Note: No other emissions were detected above the system noise floor.									

UL Verification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		15J20225								
<b>Date:</b>		04/21/15								
<b>Test Engineer:</b>		J. hsu								
<b>Configuration:</b>		EUT + Charger + Headset								
<b>Mode:</b>		LTE5 QPSK 10MHz Harm								
		<b>Chamber</b>		<b>Pre-amplifier</b>		<b>Filter</b>		<b>Limit</b>		
		5m Chamber B		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, 829MHz</b>									
	1.658	-29.3	V	3.0	37.4	1.0	-65.7	-13.0	-52.7	
	2.487	-15.5	V	3.0	36.4	1.0	-50.9	-13.0	-37.9	
	3.316	-25.7	V	3.0	35.8	1.0	-60.5	-13.0	-47.5	
10MHz	1.658	-27.3	H	3.0	37.4	1.0	-63.7	-13.0	-50.7	
	2.487	-15.9	H	3.0	36.4	1.0	-51.2	-13.0	-38.2	
QPSK	3.316	-23.5	H	3.0	35.8	1.0	-58.2	-13.0	-45.2	
	<b>Mid Ch, 836.5MHz</b>									
	1.673	-26.0	V	3.0	37.3	1.0	-62.3	-13.0	-49.3	
	2.510	-16.2	V	3.0	36.4	1.0	-51.5	-13.0	-38.5	
	3.346	-23.7	V	3.0	35.8	1.0	-58.4	-13.0	-45.4	
	1.673	-25.1	H	3.0	37.3	1.0	-61.5	-13.0	-48.5	
	2.510	-16.5	H	3.0	36.4	1.0	-51.8	-13.0	-38.8	
	3.346	-22.4	H	3.0	35.8	1.0	-57.1	-13.0	-44.1	
	<b>High Ch, 844MHz</b>									
	1.688	-24.1	V	3.0	37.3	1.0	-60.4	-13.0	-47.4	
	2.532	-14.6	V	3.0	36.3	1.0	-50.0	-13.0	-37.0	
	3.376	-22.3	V	3.0	35.7	1.0	-57.1	-13.0	-44.1	
	1.688	-27.4	H	3.0	37.3	1.0	-63.7	-13.0	-50.7	
	2.532	-18.5	H	3.0	36.3	1.0	-53.8	-13.0	-40.8	
	3.376	-22.3	H	3.0	35.7	1.0	-57.1	-13.0	-44.1	
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 #:		15J20225								
Date:		04/21/15								
Test Engineer:		J. hsu								
Configuration:		EUT + Charger + Headset								
Mode:		LTE5 16QAM 5MHz Harm								
Chamber		Pre-amplifier			Filter		Limit			
5m Chamber B		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, 826.5MHz</b>									
	1.653	-25.4	V	3.0	37.4	1.0	-61.7	-13.0	-48.7	
	2.480	-21.3	V	3.0	36.4	1.0	-56.7	-13.0	-43.7	
	3.306	-23.0	V	3.0	35.8	1.0	-57.7	-13.0	-44.7	
LTE5	1.653	-24.9	H	3.0	37.4	1.0	-61.3	-13.0	-48.3	
5MHz	2.480	-16.2	H	3.0	36.4	1.0	-51.6	-13.0	-38.6	
16QAM	3.306	-24.0	H	3.0	35.8	1.0	-58.8	-13.0	-45.8	
	<b>Mid Ch, 836.5MHz</b>									
	1.673	-24.9	V	3.0	37.3	1.0	-61.3	-13.0	-48.3	
	2.510	-23.0	V	3.0	36.4	1.0	-58.4	-13.0	-45.4	
	3.346	-23.8	V	3.0	35.8	1.0	-58.5	-13.0	-45.5	
	1.673	-23.9	H	3.0	37.3	1.0	-60.2	-13.0	-47.2	
	2.510	-22.8	H	3.0	36.4	1.0	-58.2	-13.0	-45.2	
	3.346	-24.0	H	3.0	35.8	1.0	-58.8	-13.0	-45.8	
	<b>High Ch, 846.5MHz</b>									
	1.693	-24.6	V	3.0	37.3	1.0	-60.9	-13.0	-47.9	
	2.540	-20.4	V	3.0	36.3	1.0	-55.7	-13.0	-42.7	
	3.386	-22.6	V	3.0	35.7	1.0	-57.3	-13.0	-44.3	
	1.693	-23.6	H	3.0	37.3	1.0	-59.9	-13.0	-46.9	
	2.540	-23.9	H	3.0	36.3	1.0	-59.2	-13.0	-46.2	
	3.386	-17.1	H	3.0	35.7	1.0	-51.8	-13.0	-38.8	
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 #:		15J20225								
Date:		04/21/15								
Test Engineer:		J. hsu								
Configuration:		EUT + Charger + Headset								
Mode:		LTE5 QPSK 5MHz Harm								
<b>Chamber</b>		<b>Pre-amplifier</b>			<b>Filter</b>		<b>Limit</b>			
5m Chamber B		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, 826.5MHz</b>										
LTE5	1.653	-26.3	V	3.0	37.4	1.0	-62.7	-13.0	-49.7	
	2.480	-20.8	V	3.0	36.4	1.0	-56.2	-13.0	-43.2	
5MHz	3.306	-22.4	V	3.0	35.8	1.0	-57.2	-13.0	-44.2	
	1.653	-24.9	H	3.0	37.4	1.0	-61.2	-13.0	-48.2	
QPSK	2.480	-17.3	H	3.0	36.4	1.0	-52.7	-13.0	-39.7	
	3.306	-23.2	H	3.0	35.8	1.0	-58.0	-13.0	-45.0	
<b>Mid Ch, 836.5MHz</b>										
	1.673	-24.1	V	3.0	37.3	1.0	-60.4	-13.0	-47.4	
	2.510	-21.6	V	3.0	36.4	1.0	-56.9	-13.0	-43.9	
	3.346	-22.9	V	3.0	35.8	1.0	-57.6	-13.0	-44.6	
	1.673	-23.3	H	3.0	37.3	1.0	-59.7	-13.0	-46.7	
	2.510	-20.3	H	3.0	36.4	1.0	-55.6	-13.0	-42.6	
	3.346	-23.1	H	3.0	35.8	1.0	-57.9	-13.0	-44.9	
<b>High Ch, 846.5MHz</b>										
	1.693	-23.5	V	3.0	37.3	1.0	-59.8	-13.0	-46.8	
	2.540	-19.1	V	3.0	36.3	1.0	-54.4	-13.0	-41.4	
	3.386	-20.9	V	3.0	35.7	1.0	-55.6	-13.0	-42.6	
	1.693	-23.1	H	3.0	37.3	1.0	-59.4	-13.0	-46.4	
	2.540	-18.9	H	3.0	36.3	1.0	-54.2	-13.0	-41.2	
	3.386	-22.4	H	3.0	35.7	1.0	-57.1	-13.0	-44.1	
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

UL Verification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b> Sony <b>Project #:</b> 15J20225 <b>Date:</b> 04/21/15 <b>Test Engineer:</b> J. hsu <b>Configuration:</b> EUT + Charger + Headset <b>Mode:</b> LTE5 16QAM 3MHz Harm										
		Chamber	Pre-amplifer		Filter		Limit			
		5m Chamber B	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
LTE5  3MHz  16QAM	<b>Low Ch, 825.5MHz</b>									
	1.651	-25.1	V	3.0	37.4	1.0	-61.5	-13.0	-48.5	
	2.477	-17.0	V	3.0	36.4	1.0	-52.3	-13.0	-39.3	
	3.302	-23.3	V	3.0	35.8	1.0	-58.0	-13.0	-45.0	
	1.651	-25.7	H	3.0	37.4	1.0	-62.1	-13.0	-49.1	
	2.477	-18.2	H	3.0	36.4	1.0	-53.6	-13.0	-40.6	
	3.302	-23.2	H	3.0	35.8	1.0	-58.0	-13.0	-45.0	
	<b>Mid Ch, 836.5MHz</b>									
	1.673	-24.5	V	3.0	37.3	1.0	-60.8	-13.0	-47.8	
	2.510	-15.3	V	3.0	36.4	1.0	-50.6	-13.0	-37.6	
	3.346	-22.8	V	3.0	35.8	1.0	-57.6	-13.0	-44.6	
	1.673	-22.7	H	3.0	37.3	1.0	-59.1	-13.0	-46.1	
2.510	-18.5	H	3.0	36.4	1.0	-53.9	-13.0	-40.9		
3.346	-23.3	H	3.0	35.8	1.0	-58.1	-13.0	-45.1		
<b>High Ch, 847.5MHz</b>										
1.695	-22.5	V	3.0	37.3	1.0	-58.8	-13.0	-45.8		
2.543	-18.2	V	3.0	36.3	1.0	-53.5	-13.0	-40.5		
3.390	-22.8	V	3.0	35.7	1.0	-57.5	-13.0	-44.5		
1.695	-23.3	H	3.0	37.3	1.0	-59.6	-13.0	-46.6		
2.543	-17.0	H	3.0	36.3	1.0	-52.3	-13.0	-39.3		
3.390	-23.7	H	3.0	35.7	1.0	-58.4	-13.0	-45.4		
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.										

UL Verification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		15J20225								
<b>Date:</b>		04/21/15								
<b>Test Engineer:</b>		J. hsu								
<b>Configuration:</b>		EUT + Charger + Headset								
<b>Mode:</b>		LTE5 QPSK 3MHz Harm								
<b>Chamber</b>		<b>Pre-amplifier</b>			<b>Filter</b>		<b>Limit</b>			
5m Chamber B		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, 825.5MHz</b>									
	1.651	-25.1	V	3.0	37.4	1.0	-61.4	-13.0	-48.4	
	2.477	-16.4	V	3.0	36.4	1.0	-51.8	-13.0	-38.8	
3MHz	3.302	-23.0	V	3.0	35.8	1.0	-57.8	-13.0	-44.8	
	1.651	-24.9	H	3.0	37.4	1.0	-61.3	-13.0	-48.3	
QPSK	2.477	-17.6	H	3.0	36.4	1.0	-53.0	-13.0	-40.0	
	3.302	-22.6	H	3.0	35.8	1.0	-57.4	-13.0	-44.4	
	<b>Mid Ch, 836.5MHz</b>									
	1.673	-24.4	V	3.0	37.3	1.0	-60.7	-13.0	-47.7	
	2.510	-14.3	V	3.0	36.4	1.0	-49.6	-13.0	-36.6	
	3.346	-22.9	V	3.0	35.8	1.0	-57.7	-13.0	-44.7	
	1.673	-22.1	H	3.0	37.3	1.0	-58.4	-13.0	-45.4	
	2.510	-19.4	H	3.0	36.4	1.0	-54.8	-13.0	-41.8	
	3.346	-22.7	H	3.0	35.8	1.0	-57.5	-13.0	-44.5	
	<b>High Ch, 847.5MHz</b>									
	1.695	-22.3	V	3.0	37.3	1.0	-58.6	-13.0	-45.6	
	2.543	-17.3	V	3.0	36.3	1.0	-52.6	-13.0	-39.6	
	3.390	-22.6	V	3.0	35.7	1.0	-57.3	-13.0	-44.3	
	1.695	-22.8	H	3.0	37.3	1.0	-59.1	-13.0	-46.1	
	2.543	-15.4	H	3.0	36.3	1.0	-50.8	-13.0	-37.8	
	3.390	-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.										

UL Verification Services Chamber G Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b> Sony <b>Project #:</b> 15J20225 <b>Date:</b> 04/21/15 <b>Test Engineer:</b> J. hsu <b>Configuration:</b> EUT + Charger + Headset <b>Mode:</b> LTE5 1.4MHz 16QAM HARM										
		Chamber	Pre-amplifier		Filter		Limit			
		5m Chamber B	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
LTE5 1.4MHz 16QAM	<b>Low Ch, 824.7MHz</b>									
	1.649	-28.8	V	3.0	37.4	1.0	-65.2	-13.0	-52.2	
	2.474	-25.0	V	3.0	36.4	1.0	-60.4	-13.0	-47.4	
	3.299	-22.3	V	3.0	35.8	1.0	-57.1	-13.0	-44.1	
	1.649	-28.3	H	3.0	37.4	1.0	-64.6	-13.0	-51.6	
	2.474	-26.3	H	3.0	36.4	1.0	-61.7	-13.0	-48.7	
	3.299	-22.1	H	3.0	35.8	1.0	-56.9	-13.0	-43.9	
	<b>Mid Ch, 836.5MHz</b>									
	1.673	-24.4	V	3.0	37.3	1.0	-60.7	-13.0	-47.7	
	2.510	-25.2	V	3.0	36.4	1.0	-60.5	-13.0	-47.5	
	3.346	-23.9	V	3.0	35.8	1.0	-58.6	-13.0	-45.6	
	1.673	-23.8	H	3.0	37.3	1.0	-60.2	-13.0	-47.2	
	2.510	-25.9	H	3.0	36.4	1.0	-61.3	-13.0	-48.3	
	3.346	-23.8	H	3.0	35.8	1.0	-58.6	-13.0	-45.6	
	<b>High Ch, 848.3MHz</b>									
	1.697	-21.1	V	3.0	37.3	1.0	-57.4	-13.0	-44.4	
	2.545	-25.2	V	3.0	36.3	1.0	-60.6	-13.0	-47.6	
	3.393	-24.0	V	3.0	35.7	1.0	-58.7	-13.0	-45.7	
1.697	-20.7	H	3.0	37.3	1.0	-57.0	-13.0	-44.0		
2.545	-27.0	H	3.0	36.3	1.0	-62.3	-13.0	-49.3		
3.393	-23.8	H	3.0	35.7	1.0	-58.5	-13.0	-45.5		
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										
<b>Company:</b> Sony <b>Project #:</b> 15J20225 <b>Date:</b> 04/21/15 <b>Test Engineer:</b> J. hsu <b>Configuration:</b> EUT + Charger + Headset <b>Mode:</b> LTE5 1.4MHz QPSK HARM										
		Chamber	Pre-amplifer		Filter		Limit			
		5m Chamber B	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
LTE5 1.4MHz	<b>Low Ch, 824.7MHz</b>									
	1.649	-26.6	V	3.0	37.4	1.0	-63.0	-13.0	-50.0	
	2.474	-23.7	V	3.0	36.4	1.0	-59.1	-13.0	-46.1	
QPSK	3.299	-21.8	V	3.0	35.8	1.0	-56.6	-13.0	-43.6	
	1.649	-26.1	H	3.0	37.4	1.0	-62.5	-13.0	-49.5	
	2.474	-25.5	H	3.0	36.4	1.0	-60.9	-13.0	-47.9	
	3.299	-21.9	H	3.0	35.8	1.0	-56.7	-13.0	-43.7	
	<b>Mid Ch, 836.5MHz</b>									
	1.673	-23.7	V	3.0	37.3	1.0	-60.1	-13.0	-47.1	
2.510	-25.0	V	3.0	36.4	1.0	-60.4	-13.0	-47.4		
3.346	-23.3	V	3.0	35.8	1.0	-58.1	-13.0	-45.1		
1.673	-23.3	H	3.0	37.3	1.0	-59.6	-13.0	-46.6		
2.510	-26.5	H	3.0	36.4	1.0	-61.8	-13.0	-48.8		
3.346	-22.6	H	3.0	35.8	1.0	-57.4	-13.0	-44.4		
<b>High Ch, 848.3MHz</b>										
1.697	-20.3	V	3.0	37.3	1.0	-56.6	-13.0	-43.6		
2.545	-24.7	V	3.0	36.3	1.0	-60.0	-13.0	-47.0		
3.393	-22.6	V	3.0	35.7	1.0	-57.3	-13.0	-44.3		
1.697	-19.8	H	3.0	37.3	1.0	-56.1	-13.0	-43.1		
2.545	-26.5	H	3.0	36.3	1.0	-61.8	-13.0	-48.8		
3.393	-22.5	H	3.0	35.7	1.0	-57.2	-13.0	-44.2		
Rev. 03.03.09										
Note: No other emissions were detected above the system noise floor.										

**LTE Band 4**

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/21/2015							
<b>Test Engineer:</b>		Angel Escamilla							
<b>Configuration:</b>		X-pos EUT, Ac Charger, Headset							
<b>Location:</b>		Chamber C							
<b>Mode:</b>		LTE_16QAM Band 4 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE4									
5MHz									
16QAM									
Low Ch, 1712.5									
3425.00	-21.6	V	3.0	36.1	1.0	-56.7	-13.0	-43.7	
5137.50	-18.7	V	3.0	35.4	1.0	-53.1	-13.0	-40.1	
6850.00	-13.5	V	3.0	35.7	1.0	-48.2	-13.0	-35.2	
3425.00	-20.5	H	3.0	36.1	1.0	-55.5	-13.0	-42.5	
5137.50	-17.8	H	3.0	35.4	1.0	-52.3	-13.0	-39.3	
6850.00	-12.7	H	3.0	35.7	1.0	-47.3	-13.0	-34.3	
Mid Ch, 1732.5									
3465.00	-21.1	V	3.0	36.0	1.0	-56.2	-13.0	-43.2	
5197.50	-17.4	V	3.0	35.4	1.0	-51.8	-13.0	-38.8	
6930.00	-13.3	V	3.0	35.7	1.0	-48.0	-13.0	-35.0	
3465.00	-21.1	H	3.0	36.0	1.0	-56.1	-13.0	-43.1	
5197.50	-17.2	H	3.0	35.4	1.0	-51.6	-13.0	-38.6	
6930.00	-12.5	H	3.0	35.7	1.0	-47.1	-13.0	-34.1	
High Ch, 1752.5									
3505.00	-21.9	V	3.0	36.0	1.0	-56.9	-13.0	-43.9	
5257.50	-17.3	V	3.0	35.4	1.0	-51.7	-13.0	-38.7	
7010.00	-13.0	V	3.0	35.7	1.0	-47.7	-13.0	-34.7	
3505.00	-22.1	H	3.0	36.0	1.0	-57.1	-13.0	-44.1	
5257.50	-16.0	H	3.0	35.4	1.0	-50.5	-13.0	-37.5	
7010.00	-11.9	H	3.0	35.7	1.0	-46.6	-13.0	-33.6	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/21/2015							
<b>Test Engineer:</b>		Angel Escamilla							
<b>Configuration:</b>		X-pos EUT, Ac Charger, Headset							
<b>Location:</b>		Chamber C							
<b>Mode:</b>		LTE_QPSK Band 4 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1712.5									
3425.00	-21.5	V	3.0	36.1	1.0	-56.5	-13.0	-43.5	
5137.50	-18.4	V	3.0	35.4	1.0	-52.8	-13.0	-39.8	
LTE4									
6850.00	-14.0	V	3.0	35.7	1.0	-48.7	-13.0	-35.7	
3425.00	-21.3	H	3.0	36.1	1.0	-56.4	-13.0	-43.4	
5137.50	-17.5	H	3.0	35.4	1.0	-52.0	-13.0	-39.0	
5MHz									
6850.00	-13.1	H	3.0	35.7	1.0	-47.7	-13.0	-34.7	
QPSK									
Mid Ch, 1732.5									
3465.00	-21.0	V	3.0	36.0	1.0	-56.0	-13.0	-43.0	
5197.50	-17.3	V	3.0	35.4	1.0	-51.7	-13.0	-38.7	
6930.00	-13.2	V	3.0	35.7	1.0	-47.9	-13.0	-34.9	
3465.00	-20.7	H	3.0	36.0	1.0	-55.7	-13.0	-42.7	
5197.50	-17.3	H	3.0	35.4	1.0	-51.7	-13.0	-38.7	
6930.00	-11.7	H	3.0	35.7	1.0	-46.3	-13.0	-33.3	
High Ch, 1752.5									
3505.00	-21.5	V	3.0	36.0	1.0	-56.5	-13.0	-43.5	
5257.50	-16.2	V	3.0	35.4	1.0	-50.6	-13.0	-37.6	
7010.00	-13.5	V	3.0	35.7	1.0	-48.1	-13.0	-35.1	
3505.00	-21.0	H	3.0	36.0	1.0	-56.0	-13.0	-43.0	
5257.50	-16.8	H	3.0	35.4	1.0	-51.2	-13.0	-38.2	
7010.00	-11.6	H	3.0	35.7	1.0	-46.2	-13.0	-33.2	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/21/2015							
<b>Test Engineer:</b>		Angel Escamilla							
<b>Configuration:</b>		X-pos EUT, Ac Charger, Headset							
<b>Location:</b>		Chamber C							
<b>Mode:</b>		LTE_16QAM Band 4 Harmonics, 3MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1711.5									
3423.00	-21.7	V	3.0	36.1	1.0	-56.8	-13.0	-43.8	
5134.50	-18.0	V	3.0	35.4	1.0	-52.4	-13.0	-39.4	
LTE4									
6846.00	-13.9	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
3423.00	-21.7	H	3.0	36.1	1.0	-56.7	-13.0	-43.7	
5134.50	-17.9	H	3.0	35.4	1.0	-52.3	-13.0	-39.3	
3MHz									
6846.00	-12.7	H	3.0	35.7	1.0	-47.3	-13.0	-34.3	
16QAM									
Mid Ch, 1732.5									
3465.00	-21.3	V	3.0	36.0	1.0	-56.4	-13.0	-43.4	
5197.50	-17.7	V	3.0	35.4	1.0	-52.1	-13.0	-39.1	
6930.00	-13.4	V	3.0	35.7	1.0	-48.1	-13.0	-35.1	
3465.00	-20.9	H	3.0	36.0	1.0	-55.9	-13.0	-42.9	
5197.50	-17.3	H	3.0	35.4	1.0	-51.7	-13.0	-38.7	
6930.00	-12.3	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	
High Ch, 1753.5									
3507.00	-21.6	V	3.0	36.0	1.0	-56.6	-13.0	-43.6	
5260.50	-16.9	V	3.0	35.4	1.0	-51.4	-13.0	-38.4	
7014.00	-13.0	V	3.0	35.7	1.0	-47.7	-13.0	-34.7	
3507.00	-22.1	H	3.0	36.0	1.0	-57.1	-13.0	-44.1	
5260.50	-16.6	H	3.0	35.4	1.0	-51.1	-13.0	-38.1	
7014.00	-11.7	H	3.0	35.7	1.0	-46.4	-13.0	-33.4	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/21/2015							
<b>Test Engineer:</b>		Angel Escamilla							
<b>Configuration:</b>		X-pos EUT, Ac Charger, Headset							
<b>Location:</b>		Chamber C							
<b>Mode:</b>		LTE_QPSK Band 4 Harmonics, 3MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1711.5									
3423.00	-21.2	V	3.0	36.1	1.0	-56.2	-13.0	-43.2	
5134.50	-17.8	V	3.0	35.4	1.0	-52.2	-13.0	-39.2	
LTE4									
6846.00	-13.7	V	3.0	35.7	1.0	-48.3	-13.0	-35.3	
3423.00	-21.2	H	3.0	36.1	1.0	-56.3	-13.0	-43.3	
5134.50	-17.8	H	3.0	35.4	1.0	-52.3	-13.0	-39.3	
3MHz									
6846.00	-12.5	H	3.0	35.7	1.0	-47.1	-13.0	-34.1	
QPSK									
Mid Ch, 1732.5									
3465.00	-21.7	V	3.0	36.0	1.0	-56.7	-13.0	-43.7	
5197.50	-17.8	V	3.0	35.4	1.0	-52.3	-13.0	-39.3	
6930.00	-13.3	V	3.0	35.7	1.0	-48.0	-13.0	-35.0	
3465.00	-21.3	H	3.0	36.0	1.0	-56.4	-13.0	-43.4	
5197.50	-17.6	H	3.0	35.4	1.0	-52.0	-13.0	-39.0	
6930.00	-12.2	H	3.0	35.7	1.0	-46.9	-13.0	-33.9	
High Ch, 1753.5									
3507.00	-21.3	V	3.0	36.0	1.0	-56.3	-13.0	-43.3	
5260.50	-17.1	V	3.0	35.4	1.0	-51.6	-13.0	-38.6	
7014.00	-12.8	V	3.0	35.7	1.0	-47.5	-13.0	-34.5	
3507.00	-22.1	H	3.0	36.0	1.0	-57.1	-13.0	-44.1	
5260.50	-17.1	H	3.0	35.4	1.0	-51.5	-13.0	-38.5	
7014.00	-11.5	H	3.0	35.7	1.0	-46.2	-13.0	-33.2	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		15J20225								
<b>Date:</b>		04/21/15								
<b>Test Engineer:</b>		Angel Escamilla								
<b>Configuration:</b>		X-pos EUT, Ac Charger, Headset								
<b>Location:</b>		Chamber C								
<b>Mode:</b>		LTE_16QAM Band 4 Harmonics, 1.4MHz Bandwidth								
Band	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1710.7									
LTE4	3421.40	-20.0	V	3.0	36.1	1.0	-55.0	-13.0	-42.0	
	5132.10	-18.0	V	3.0	35.4	1.0	-52.4	-13.0	-39.4	
	6842.80	-13.7	V	3.0	35.7	1.0	-48.4	-13.0	-35.4	
1.4MHz	3421.40	-18.4	H	3.0	36.1	1.0	-53.5	-13.0	-40.5	
	5132.10	-17.1	H	3.0	35.4	1.0	-51.6	-13.0	-38.6	
	6842.80	-12.8	H	3.0	35.7	1.0	-47.5	-13.0	-34.5	
16QAM	Mid Ch, 1732.5									
	3465.00	-20.9	V	3.0	36.0	1.0	-55.9	-13.0	-42.9	
	5197.50	-17.6	V	3.0	35.4	1.0	-52.1	-13.0	-39.1	
	6930.00	-12.8	V	3.0	35.7	1.0	-47.5	-13.0	-34.5	
	3465.00	-20.9	H	3.0	36.0	1.0	-56.0	-13.0	-43.0	
	5197.50	-16.9	H	3.0	35.4	1.0	-51.3	-13.0	-38.3	
	6930.00	-12.0	H	3.0	35.7	1.0	-46.7	-13.0	-33.7	
	High Ch, 1754.3									
	3508.60	-21.6	V	3.0	36.0	1.0	-56.6	-13.0	-43.6	
	5262.90	-17.5	V	3.0	35.4	1.0	-52.0	-13.0	-39.0	
	7017.20	-12.8	V	3.0	35.7	1.0	-47.4	-13.0	-34.4	
	3508.60	-21.5	H	3.0	36.0	1.0	-56.5	-13.0	-43.5	
	5262.90	-17.0	H	3.0	35.4	1.0	-51.4	-13.0	-38.4	
	7017.20	-12.0	H	3.0	35.7	1.0	-46.7	-13.0	-33.7	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		04/21/15							
<b>Test Engineer:</b>		Angel Escamilla							
<b>Configuration:</b>		X-pos EUT, Ac Charger, Headset							
<b>Location:</b>		Chamber C							
<b>Mode:</b>		LTE_QPSK Band 4 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE4									
1.4MHz									
QPSK									
Low Ch, 1710.7									
3421.40	-20.4	V	3.0	36.1	1.0	-55.5	-13.0	-42.5	
5132.10	-18.1	V	3.0	35.4	1.0	-52.5	-13.0	-39.5	
6842.80	-13.8	V	3.0	35.7	1.0	-48.5	-13.0	-35.5	
3421.40	-17.9	H	3.0	36.1	1.0	-52.9	-13.0	-39.9	
5132.10	-17.9	H	3.0	35.4	1.0	-52.3	-13.0	-39.3	
6842.80	-13.0	H	3.0	35.7	1.0	-47.7	-13.0	-34.7	
Mid Ch, 1732.5									
3465.00	-21.1	V	3.0	36.0	1.0	-56.1	-13.0	-43.1	
5197.50	-17.9	V	3.0	35.4	1.0	-52.4	-13.0	-39.4	
6930.00	-12.9	V	3.0	35.7	1.0	-47.6	-13.0	-34.6	
3465.00	-21.1	H	3.0	36.0	1.0	-56.1	-13.0	-43.1	
5197.50	-16.9	H	3.0	35.4	1.0	-51.3	-13.0	-38.3	
6930.00	-12.3	H	3.0	35.7	1.0	-47.0	-13.0	-34.0	
High Ch, 1754.3									
3508.60	-21.2	V	3.0	36.0	1.0	-56.2	-13.0	-43.2	
5262.90	-17.9	V	3.0	35.4	1.0	-52.3	-13.0	-39.3	
7017.20	-12.6	V	3.0	35.7	1.0	-47.3	-13.0	-34.3	
3508.60	-21.8	H	3.0	36.0	1.0	-56.8	-13.0	-43.8	
5262.90	-17.0	H	3.0	35.4	1.0	-51.4	-13.0	-38.4	
7017.20	-12.1	H	3.0	35.7	1.0	-46.8	-13.0	-33.8	

**LTE Band 2**

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/19/2015							
<b>Test Engineer:</b>		O. Stoelting							
<b>Configuration:</b>		X-pos EUT w/ AC Charger + HS							
<b>Location:</b>		Chamber A							
<b>Mode:</b>		LTE_16QAM Band 2 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE2									
20MHz									
16QAM									
Low Ch, 1860									
3720.00	-20.2	V	3.0	35.8	1.0	-55.1	-13.0	-42.1	
5580.00	-19.6	V	3.0	35.5	1.0	-54.1	-13.0	-41.1	
7440.00	-19.1	V	3.0	35.7	1.0	-53.9	-13.0	-40.9	
Mid Ch, 1880									
3720.00	-18.6	H	3.0	35.8	1.0	-53.4	-13.0	-40.4	
5580.00	-19.3	H	3.0	35.5	1.0	-53.8	-13.0	-40.8	
7440.00	-18.1	H	3.0	35.7	1.0	-52.8	-13.0	-39.8	
High Ch, 1900									
3760.00	-18.2	V	3.0	35.8	1.0	-53.0	-13.0	-40.0	
5640.00	-20.0	V	3.0	35.5	1.0	-54.5	-13.0	-41.5	
7520.00	-18.6	V	3.0	35.7	1.0	-53.4	-13.0	-40.4	
3760.00	-16.3	H	3.0	35.8	1.0	-51.2	-13.0	-38.2	
5640.00	-19.3	H	3.0	35.5	1.0	-53.8	-13.0	-40.8	
7520.00	-17.7	H	3.0	35.7	1.0	-52.5	-13.0	-39.5	
High Ch, 1900									
3800.00	-21.1	V	3.0	35.8	1.0	-55.9	-13.0	-42.9	
5700.00	-19.8	V	3.0	35.5	1.0	-54.3	-13.0	-41.3	
7600.00	-18.6	V	3.0	35.8	1.0	-53.3	-13.0	-40.3	
3800.00	-16.1	H	3.0	35.8	1.0	-50.9	-13.0	-37.9	
5700.00	-19.1	H	3.0	35.5	1.0	-53.6	-13.0	-40.6	
7600.00	-17.4	H	3.0	35.8	1.0	-52.2	-13.0	-39.2	

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		15J20225								
<b>Date:</b>		4/19/2015								
<b>Test Engineer:</b>		O. Stoelting								
<b>Configuration:</b>		X-pos EUT w/ AC Charger + HS								
<b>Location:</b>		Chamber A								
<b>Mode:</b>		LTE_QPSK Band 2 Harmonics, 20MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1860									
	3720.00	-20.3	V	3.0	35.8	1.0	-55.2	-13.0	-42.2	
	5580.00	-19.7	V	3.0	35.5	1.0	-54.2	-13.0	-41.2	
LTE2	7440.00	-19.3	V	3.0	35.7	1.0	-54.0	-13.0	-41.0	
	3720.00	-18.8	H	3.0	35.8	1.0	-53.6	-13.0	-40.6	
	5580.00	-19.3	H	3.0	35.5	1.0	-53.8	-13.0	-40.8	
20MHz	7440.00	-18.1	H	3.0	35.7	1.0	-52.8	-13.0	-39.8	
	Mid Ch, 1880									
	3760.00	-18.1	V	3.0	35.8	1.0	-52.9	-13.0	-39.9	
QPSK	5640.00	-19.9	V	3.0	35.5	1.0	-54.4	-13.0	-41.4	
	7520.00	-18.8	V	3.0	35.7	1.0	-53.5	-13.0	-40.5	
	3760.00	-16.3	H	3.0	35.8	1.0	-51.1	-13.0	-38.1	
	5640.00	-19.3	H	3.0	35.5	1.0	-53.8	-13.0	-40.8	
	7520.00	-17.7	H	3.0	35.7	1.0	-52.5	-13.0	-39.5	
High Ch, 1900										
	3800.00	-21.1	V	3.0	35.8	1.0	-55.9	-13.0	-42.9	
	5700.00	-19.6	V	3.0	35.5	1.0	-54.1	-13.0	-41.1	
	7600.00	-18.6	V	3.0	35.8	1.0	-53.4	-13.0	-40.4	
	3800.00	-16.4	H	3.0	35.8	1.0	-51.2	-13.0	-38.2	
	5700.00	-19.2	H	3.0	35.5	1.0	-53.7	-13.0	-40.7	
	7600.00	-17.5	H	3.0	35.8	1.0	-52.2	-13.0	-39.2	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/19/2015							
<b>Test Engineer:</b>		O. Stoelting							
<b>Configuration:</b>		X-pos EUT w/ AC Charger + HS							
<b>Location:</b>		Chamber A							
<b>Mode:</b>		LTE_16QAM Band 2 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1857.5									
3715.00	-20.7	V	3.0	35.8	1.0	-55.5	-13.0	-42.5	
5572.50	-19.8	V	3.0	35.5	1.0	-54.3	-13.0	-41.3	
LTE2									
7430.00	-19.3	V	3.0	35.7	1.0	-54.0	-13.0	-41.0	
3715.00	-20.2	H	3.0	35.8	1.0	-55.0	-13.0	-42.0	
5572.50	-19.3	H	3.0	35.5	1.0	-53.7	-13.0	-40.7	
15MHz									
7430.00	-18.2	H	3.0	35.7	1.0	-53.0	-13.0	-40.0	
16QAM									
Mid Ch, 1880									
3760.00	-20.9	V	3.0	35.8	1.0	-55.7	-13.0	-42.7	
5640.00	-20.0	V	3.0	35.5	1.0	-54.5	-13.0	-41.5	
7520.00	-18.6	V	3.0	35.7	1.0	-53.3	-13.0	-40.3	
3760.00	-16.1	H	3.0	35.8	1.0	-51.0	-13.0	-38.0	
5640.00	-19.5	H	3.0	35.5	1.0	-54.0	-13.0	-41.0	
7520.00	-17.8	H	3.0	35.7	1.0	-52.5	-13.0	-39.5	
High Ch, 1902.5									
3805.00	-19.3	V	3.0	35.8	1.0	-54.1	-13.0	-41.1	
5707.50	-19.8	V	3.0	35.5	1.0	-54.3	-13.0	-41.3	
7610.00	-18.3	V	3.0	35.8	1.0	-53.1	-13.0	-40.1	
3805.00	-21.1	H	3.0	35.8	1.0	-55.8	-13.0	-42.8	
5707.50	-19.2	H	3.0	35.5	1.0	-53.7	-13.0	-40.7	
7610.00	-17.5	H	3.0	35.8	1.0	-52.2	-13.0	-39.2	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/19/2015							
<b>Test Engineer:</b>		O. Stoelting							
<b>Configuration:</b>		X-pos EUT w/ AC Charger + HS							
<b>Location:</b>		Chamber A							
<b>Mode:</b>		LTE_QPSK Band 2 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1857.5									
3715.00	-20.5	V	3.0	35.8	1.0	-55.3	-13.0	-42.3	
5572.50	-19.9	V	3.0	35.5	1.0	-54.4	-13.0	-41.4	
LTE2									
7430.00	-19.0	V	3.0	35.7	1.0	-53.7	-13.0	-40.7	
3715.00	-20.2	H	3.0	35.8	1.0	-55.0	-13.0	-42.0	
5572.50	-19.2	H	3.0	35.5	1.0	-53.7	-13.0	-40.7	
15MHz									
7430.00	-18.2	H	3.0	35.7	1.0	-52.9	-13.0	-39.9	
QPSK									
Mid Ch, 1880									
3760.00	-21.4	V	3.0	35.8	1.0	-56.2	-13.0	-43.2	
5640.00	-19.8	V	3.0	35.5	1.0	-54.3	-13.0	-41.3	
7520.00	-18.5	V	3.0	35.7	1.0	-53.2	-13.0	-40.2	
3760.00	-16.4	H	3.0	35.8	1.0	-51.2	-13.0	-38.2	
5640.00	-19.4	H	3.0	35.5	1.0	-53.9	-13.0	-40.9	
7520.00	-17.6	H	3.0	35.7	1.0	-52.3	-13.0	-39.3	
High Ch, 1902.5									
3805.00	-19.3	V	3.0	35.8	1.0	-54.1	-13.0	-41.1	
5707.50	-19.8	V	3.0	35.5	1.0	-54.3	-13.0	-41.3	
7610.00	-18.5	V	3.0	35.8	1.0	-53.3	-13.0	-40.3	
3805.00	-21.1	H	3.0	35.8	1.0	-55.9	-13.0	-42.9	
5707.50	-19.1	H	3.0	35.5	1.0	-53.6	-13.0	-40.6	
7610.00	-17.5	H	3.0	35.8	1.0	-52.2	-13.0	-39.2	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/19/2015							
<b>Test Engineer:</b>		O. Stoelting							
<b>Configuration:</b>		X-pos EUT w/ AC Charger + HS							
<b>Location:</b>		Chamber A							
<b>Mode:</b>		LTE_16QAM Band 2 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1855									
3710.00	-21.5	V	3.0	35.9	1.0	-56.3	-13.0	-43.3	
5565.00	-20.0	V	3.0	35.5	1.0	-54.4	-13.0	-41.4	
LTE2									
7420.00	-19.2	V	3.0	35.7	1.0	-53.9	-13.0	-40.9	
3710.00	-21.0	H	3.0	35.9	1.0	-55.9	-13.0	-42.9	
5565.00	-19.2	H	3.0	35.5	1.0	-53.7	-13.0	-40.7	
10MHz									
7420.00	-18.2	H	3.0	35.7	1.0	-52.9	-13.0	-39.9	
16QAM									
Mid Ch, 1880									
3760.00	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
5640.00	-19.9	V	3.0	35.5	1.0	-54.4	-13.0	-41.4	
7520.00	-18.5	V	3.0	35.7	1.0	-53.3	-13.0	-40.3	
3760.00	-17.6	H	3.0	35.8	1.0	-52.4	-13.0	-39.4	
5640.00	-19.4	H	3.0	35.5	1.0	-53.9	-13.0	-40.9	
7520.00	-17.6	H	3.0	35.7	1.0	-52.4	-13.0	-39.4	
High Ch, 1905									
3810.00	-20.4	V	3.0	35.8	1.0	-55.2	-13.0	-42.2	
5715.00	-19.8	V	3.0	35.5	1.0	-54.3	-13.0	-41.3	
7620.00	-18.5	V	3.0	35.8	1.0	-53.2	-13.0	-40.2	
3810.00	-19.0	H	3.0	35.8	1.0	-53.8	-13.0	-40.8	
5715.00	-19.1	H	3.0	35.5	1.0	-53.6	-13.0	-40.6	
7620.00	-17.4	H	3.0	35.8	1.0	-52.2	-13.0	-39.2	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/19/2015							
<b>Test Engineer:</b>		O. Stoelting							
<b>Configuration:</b>		X-pos EUT w/ AC Charger + HS							
<b>Location:</b>		Chamber A							
<b>Mode:</b>		LTE_QPSK Band 2 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1855									
3710.00	-21.4	V	3.0	35.9	1.0	-56.3	-13.0	-43.3	
5565.00	-19.9	V	3.0	35.5	1.0	-54.4	-13.0	-41.4	
LTE2									
7420.00	-19.3	V	3.0	35.7	1.0	-54.0	-13.0	-41.0	
3710.00	-21.4	H	3.0	35.9	1.0	-56.3	-13.0	-43.3	
5565.00	-19.3	H	3.0	35.5	1.0	-53.8	-13.0	-40.8	
10MHz									
7420.00	-18.2	H	3.0	35.7	1.0	-53.0	-13.0	-40.0	
QPSK									
Mid Ch, 1880									
3760.00	-21.0	V	3.0	35.8	1.0	-55.8	-13.0	-42.8	
5640.00	-20.0	V	3.0	35.5	1.0	-54.4	-13.0	-41.4	
7520.00	-18.8	V	3.0	35.7	1.0	-53.6	-13.0	-40.6	
3760.00	-17.7	H	3.0	35.8	1.0	-52.5	-13.0	-39.5	
5640.00	-19.2	H	3.0	35.5	1.0	-53.7	-13.0	-40.7	
7520.00	-17.6	H	3.0	35.7	1.0	-52.3	-13.0	-39.3	
High Ch, 1905									
3810.00	-20.3	V	3.0	35.8	1.0	-55.1	-13.0	-42.1	
5715.00	-19.7	V	3.0	35.5	1.0	-54.2	-13.0	-41.2	
7620.00	-18.4	V	3.0	35.8	1.0	-53.2	-13.0	-40.2	
3810.00	-19.3	H	3.0	35.8	1.0	-54.1	-13.0	-41.1	
5715.00	-17.3	H	3.0	35.5	1.0	-51.8	-13.0	-38.8	
7620.00	-17.2	H	3.0	35.8	1.0	-51.9	-13.0	-38.9	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/19/2015							
<b>Test Engineer:</b>		O. Stoelting							
<b>Configuration:</b>		X-pos EUT w/ AC Charger + HS							
<b>Location:</b>		Chamber A							
<b>Mode:</b>		LTE_16QAM Band 2 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1852.5									
3705.00	-21.3	V	3.0	35.9	1.0	-56.2	-13.0	-43.2	
5557.50	-20.1	V	3.0	35.5	1.0	-54.5	-13.0	-41.5	
LTE2									
7410.00	-19.3	V	3.0	35.7	1.0	-54.0	-13.0	-41.0	
3705.00	-19.5	H	3.0	35.9	1.0	-54.4	-13.0	-41.4	
5557.50	-19.2	H	3.0	35.5	1.0	-53.7	-13.0	-40.7	
5MHz									
7410.00	-18.3	H	3.0	35.7	1.0	-53.0	-13.0	-40.0	
16QAM									
Mid Ch, 1880									
3760.00	-20.2	V	3.0	35.8	1.0	-55.0	-13.0	-42.0	
5640.00	-19.9	V	3.0	35.5	1.0	-54.4	-13.0	-41.4	
7520.00	-18.9	V	3.0	35.7	1.0	-53.7	-13.0	-40.7	
3760.00	-17.6	H	3.0	35.8	1.0	-52.5	-13.0	-39.5	
5640.00	-19.3	H	3.0	35.5	1.0	-53.8	-13.0	-40.8	
7520.00	-17.8	H	3.0	35.7	1.0	-52.6	-13.0	-39.6	
High Ch, 1907.5									
3815.00	-18.1	V	3.0	35.8	1.0	-52.9	-13.0	-39.9	
5722.50	-19.8	V	3.0	35.5	1.0	-54.3	-13.0	-41.3	
7630.00	-18.3	V	3.0	35.8	1.0	-53.1	-13.0	-40.1	
3815.00	-17.4	H	3.0	35.8	1.0	-52.2	-13.0	-39.2	
5722.50	-19.0	H	3.0	35.5	1.0	-53.5	-13.0	-40.5	
7630.00	-17.3	H	3.0	35.8	1.0	-52.0	-13.0	-39.0	

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		15J20225								
<b>Date:</b>		4/19/2015								
<b>Test Engineer:</b>		O. Stoelting								
<b>Configuration:</b>		X-pos EUT w/ AC Charger + HS								
<b>Location:</b>		Chamber A								
<b>Mode:</b>		LTE_QPSK Band 2 Harmonics, 5MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1852.5									
	3705.00	-21.2	V	3.0	35.9	1.0	-56.1	-13.0	-43.1	
LTE2	5557.50	-19.9	V	3.0	35.5	1.0	-54.4	-13.0	-41.4	
	7410.00	-19.4	V	3.0	35.7	1.0	-54.1	-13.0	-41.1	
5MHz	3705.00	-20.0	H	3.0	35.9	1.0	-54.9	-13.0	-41.9	
	5557.50	-19.2	H	3.0	35.5	1.0	-53.7	-13.0	-40.7	
QPSK	7410.00	-18.3	H	3.0	35.7	1.0	-53.1	-13.0	-40.1	
	Mid Ch, 1880									
	3760.00	-19.9	V	3.0	35.8	1.0	-54.7	-13.0	-41.7	
	5640.00	-19.9	V	3.0	35.5	1.0	-54.4	-13.0	-41.4	
	7520.00	-18.8	V	3.0	35.7	1.0	-53.6	-13.0	-40.6	
	3760.00	-17.5	H	3.0	35.8	1.0	-52.3	-13.0	-39.3	
	5640.00	-19.4	H	3.0	35.5	1.0	-53.9	-13.0	-40.9	
	7520.00	-17.7	H	3.0	35.7	1.0	-52.5	-13.0	-39.5	
	High Ch, 1907.5									
	3815.00	-17.8	V	3.0	35.8	1.0	-52.6	-13.0	-39.6	
	5722.50	-19.7	V	3.0	35.5	1.0	-54.2	-13.0	-41.2	
	7630.00	-18.4	V	3.0	35.8	1.0	-53.2	-13.0	-40.2	
	3815.00	-17.7	H	3.0	35.8	1.0	-52.5	-13.0	-39.5	
	5722.50	-19.2	H	3.0	35.5	1.0	-53.7	-13.0	-40.7	
	7630.00	-17.4	H	3.0	35.8	1.0	-52.2	-13.0	-39.2	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/19/2015							
<b>Test Engineer:</b>		O. Stoelting							
<b>Configuration:</b>		X-pos EUT w/ AC Charger + HS							
<b>Location:</b>		Chamber A							
<b>Mode:</b>		LTE_16QAM Band 2 Harmonics, 3MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1851.5									
3703.00	-21.4	V	3.0	35.9	1.0	-56.3	-13.0	-43.3	
5554.50	-19.9	V	3.0	35.5	1.0	-54.4	-13.0	-41.4	
LTE2									
7406.00	-19.4	V	3.0	35.7	1.0	-54.1	-13.0	-41.1	
3703.00	-20.7	H	3.0	35.9	1.0	-55.6	-13.0	-42.6	
5554.50	-19.2	H	3.0	35.5	1.0	-53.7	-13.0	-40.7	
3MHz									
7406.00	-18.2	H	3.0	35.7	1.0	-53.0	-13.0	-40.0	
16QAM									
Mid Ch, 1880									
3760.00	-21.2	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
5640.00	-20.1	V	3.0	35.5	1.0	-54.5	-13.0	-41.5	
7520.00	-18.6	V	3.0	35.7	1.0	-53.3	-13.0	-40.3	
3760.00	-20.0	H	3.0	35.8	1.0	-54.8	-13.0	-41.8	
5640.00	-19.4	H	3.0	35.5	1.0	-53.9	-13.0	-40.9	
7520.00	-17.6	H	3.0	35.7	1.0	-52.4	-13.0	-39.4	
High Ch, 1908.5									
3817.00	-18.4	V	3.0	35.8	1.0	-53.2	-13.0	-40.2	
5725.50	-19.5	V	3.0	35.5	1.0	-54.0	-13.0	-41.0	
7634.00	-18.3	V	3.0	35.8	1.0	-53.0	-13.0	-40.0	
3817.00	-18.1	H	3.0	35.8	1.0	-52.9	-13.0	-39.9	
5725.50	-18.7	H	3.0	35.5	1.0	-53.2	-13.0	-40.2	
7634.00	-17.5	H	3.0	35.8	1.0	-52.2	-13.0	-39.2	

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		15J20225								
<b>Date:</b>		4/19/2015								
<b>Test Engineer:</b>		O. Stoelting								
<b>Configuration:</b>		X-pos EUT w/ AC Charger + HS								
<b>Location:</b>		Chamber A								
<b>Mode:</b>		LTE_QPSK Band 2 Harmonics, 3MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band	Low Ch, 1851.5									
	3703.00	-21.3	V	3.0	35.9	1.0	-56.2	-13.0	-43.2	
LTE2	5554.50	-19.8	V	3.0	35.5	1.0	-54.3	-13.0	-41.3	
	7406.00	-19.5	V	3.0	35.7	1.0	-54.2	-13.0	-41.2	
3MHz	3703.00	-20.6	H	3.0	35.9	1.0	-55.4	-13.0	-42.4	
	5554.50	-19.4	H	3.0	35.5	1.0	-53.8	-13.0	-40.8	
QPSK	7406.00	-18.4	H	3.0	35.7	1.0	-53.1	-13.0	-40.1	
	Mid Ch, 1880									
	3760.00	-21.2	V	3.0	35.8	1.0	-56.0	-13.0	-43.0	
	5640.00	-20.0	V	3.0	35.5	1.0	-54.5	-13.0	-41.5	
	7520.00	-18.9	V	3.0	35.7	1.0	-53.6	-13.0	-40.6	
	3760.00	-19.7	H	3.0	35.8	1.0	-54.5	-13.0	-41.5	
	5640.00	-19.1	H	3.0	35.5	1.0	-53.6	-13.0	-40.6	
	7520.00	-17.6	H	3.0	35.7	1.0	-52.4	-13.0	-39.4	
	High Ch, 1908.5									
	3817.00	-18.5	V	3.0	35.8	1.0	-53.3	-13.0	-40.3	
	5725.50	-19.8	V	3.0	35.5	1.0	-54.3	-13.0	-41.3	
	7634.00	-18.5	V	3.0	35.8	1.0	-53.3	-13.0	-40.3	
	3817.00	-18.1	H	3.0	35.8	1.0	-52.9	-13.0	-39.9	
	5725.50	-18.9	H	3.0	35.5	1.0	-53.4	-13.0	-40.4	
	7634.00	-17.5	H	3.0	35.8	1.0	-52.2	-13.0	-39.2	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/19/2015							
<b>Test Engineer:</b>		O. Stoelting							
<b>Configuration:</b>		X-pos EUT w/ AC Charger + HS							
<b>Location:</b>		Chamber A							
<b>Mode:</b>		LTE_16QAM Band 2 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1850.7									
3701.40	-21.5	V	3.0	35.9	1.0	-56.4	-13.0	-43.4	
5552.10	-19.9	V	3.0	35.5	1.0	-54.4	-13.0	-41.4	
LTE2									
7402.80	-19.3	V	3.0	35.7	1.0	-54.0	-13.0	-41.0	
3701.40	-21.6	H	3.0	35.9	1.0	-56.5	-13.0	-43.5	
5552.10	-19.3	H	3.0	35.5	1.0	-53.8	-13.0	-40.8	
1.4MHz									
7402.80	-18.1	H	3.0	35.7	1.0	-52.9	-13.0	-39.9	
16QAM									
Mid Ch, 1880									
3760.00	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
5640.00	-20.1	V	3.0	35.5	1.0	-54.5	-13.0	-41.5	
7520.00	-18.9	V	3.0	35.7	1.0	-53.7	-13.0	-40.7	
3760.00	-17.7	H	3.0	35.8	1.0	-52.5	-13.0	-39.5	
5640.00	-19.0	H	3.0	35.5	1.0	-53.5	-13.0	-40.5	
7520.00	-17.8	H	3.0	35.7	1.0	-52.5	-13.0	-39.5	
High Ch, 1909.3									
3818.60	-18.0	V	3.0	35.8	1.0	-52.8	-13.0	-39.8	
5727.90	-19.7	V	3.0	35.5	1.0	-54.2	-13.0	-41.2	
7637.20	-18.5	V	3.0	35.8	1.0	-53.2	-13.0	-40.2	
3818.60	-18.0	H	3.0	35.8	1.0	-52.8	-13.0	-39.8	
5727.90	-18.7	H	3.0	35.5	1.0	-53.2	-13.0	-40.2	
7637.20	-17.3	H	3.0	35.8	1.0	-52.0	-13.0	-39.0	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/19/2015							
<b>Test Engineer:</b>		O. Stoelting							
<b>Configuration:</b>		X-pos EUT w/ AC Charger + HS							
<b>Location:</b>		Chamber A							
<b>Mode:</b>		LTE_QPSK Band 2 Harmonics, 1.4MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 1850.7									
3701.40	-21.5	V	3.0	35.9	1.0	-56.4	-13.0	-43.4	
5552.10	-19.8	V	3.0	35.5	1.0	-54.3	-13.0	-41.3	
LTE2									
7402.80	-19.3	V	3.0	35.7	1.0	-54.0	-13.0	-41.0	
3701.40	-21.5	H	3.0	35.9	1.0	-56.3	-13.0	-43.3	
5552.10	-19.3	H	3.0	35.5	1.0	-53.8	-13.0	-40.8	
1.4MHz									
7402.80	-18.2	H	3.0	35.7	1.0	-52.9	-13.0	-39.9	
QPSK									
Mid Ch, 1880									
3760.00	-21.3	V	3.0	35.8	1.0	-56.1	-13.0	-43.1	
5640.00	-20.0	V	3.0	35.5	1.0	-54.5	-13.0	-41.5	
7520.00	-18.7	V	3.0	35.7	1.0	-53.4	-13.0	-40.4	
3760.00	-18.1	H	3.0	35.8	1.0	-52.9	-13.0	-39.9	
5640.00	-19.3	H	3.0	35.5	1.0	-53.8	-13.0	-40.8	
7520.00	-17.8	H	3.0	35.7	1.0	-52.5	-13.0	-39.5	
High Ch, 1909.3									
3818.60	-15.3	V	3.0	35.8	1.0	-50.1	-13.0	-37.1	
5727.90	-19.4	V	3.0	35.5	1.0	-53.9	-13.0	-40.9	
7637.20	-18.5	V	3.0	35.8	1.0	-53.3	-13.0	-40.3	
3818.60	-18.0	H	3.0	35.8	1.0	-52.8	-13.0	-39.8	
5727.90	-18.9	H	3.0	35.5	1.0	-53.4	-13.0	-40.4	
7637.20	-17.3	H	3.0	35.8	1.0	-52.1	-13.0	-39.1	

**LTE Band 7**

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/22/2015							
<b>Test Engineer:</b>		Jude Semana/David Mun							
<b>Configuration:</b>		X-pos EUT/ AC Charger/ HS							
<b>Location:</b>		Chamber G							
<b>Mode:</b>		LTE_16QAM Band 7 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE7									
20MHz									
16QAM									
Low Ch, 2510									
5020.00	-20.6	V	3.0	35.5	1.0	-55.1	-25.0	-30.1	-66.1
7530.00	-19.1	V	3.0	35.7	1.0	-53.8	-25.0	-28.8	-67.4
10040.00	-16.8	V	3.0	36.0	1.0	-51.8	-25.0	-26.8	-68.5
5020.00	-20.1	H	3.0	35.5	1.0	-54.6	-25.0	-29.6	-65.7
7530.00	-18.0	H	3.0	35.7	1.0	-52.7	-25.0	-27.7	-67.4
10040.00	-15.7	H	3.0	36.0	1.0	-50.7	-25.0	-25.7	-68.2
Mid Ch, 2535									
5070.00	-19.9	V	3.0	35.4	1.0	-54.4	-25.0	-29.4	-65.7
7605.00	-19.0	V	3.0	35.8	1.0	-53.7	-25.0	-28.7	-67.7
10140.00	-16.5	V	3.0	36.0	1.0	-51.5	-25.0	-26.5	-68.8
5070.00	-19.7	H	3.0	35.4	1.0	-54.2	-25.0	-29.2	-65.6
7605.00	-17.9	H	3.0	35.8	1.0	-52.7	-25.0	-27.7	-67.2
10140.00	-15.6	H	3.0	36.0	1.0	-50.5	-25.0	-25.5	-68.8
High Ch, 2560									
5120.00	-20.2	V	3.0	35.4	1.0	-54.7	-25.0	-29.7	-65.7
7680.00	-18.6	V	3.0	35.8	1.0	-53.4	-25.0	-28.4	-67.6
10240.00	-16.4	V	3.0	35.9	1.0	-51.3	-25.0	-26.3	-68.7
5120.00	-19.0	H	3.0	35.4	1.0	-53.4	-25.0	-28.4	-65.5
7680.00	-17.9	H	3.0	35.8	1.0	-52.7	-25.0	-27.7	-67.9
10240.00	-15.8	H	3.0	35.9	1.0	-50.7	-25.0	-25.7	-68.3

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/22/2015							
<b>Test Engineer:</b>		Jude Semana/David Mun							
<b>Configuration:</b>		X-pos EUT/ AC Charger/ HS							
<b>Location:</b>		Chamber G							
<b>Mode:</b>		LTE_QPSK Band 7 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 2510									
5020.00	-18.0	V	3.0	35.5	1.0	-52.4	-25.0	-27.4	
7530.00	-15.6	V	3.0	35.7	1.0	-50.4	-25.0	-25.4	
LTE7									
10040.00	-13.5	V	3.0	36.0	1.0	-48.5	-25.0	-23.5	
5020.00	-17.4	H	3.0	35.5	1.0	-51.9	-25.0	-26.9	
7530.00	-14.5	H	3.0	35.7	1.0	-49.2	-25.0	-24.2	
20MHz									
10040.00	-12.9	H	3.0	36.0	1.0	-47.9	-25.0	-22.9	
QPSK									
Mid Ch, 2535									
5070.00	-17.4	V	3.0	35.4	1.0	-51.8	-25.0	-26.8	
7605.00	-15.1	V	3.0	35.8	1.0	-49.8	-25.0	-24.8	
10140.00	-13.7	V	3.0	36.0	1.0	-48.7	-25.0	-23.7	
5070.00	-16.4	H	3.0	35.4	1.0	-50.8	-25.0	-25.8	
7605.00	-14.3	H	3.0	35.8	1.0	-49.0	-25.0	-24.0	
10140.00	-12.5	H	3.0	36.0	1.0	-47.5	-25.0	-22.5	
High Ch, 2560									
5120.00	-20.1	V	3.0	35.4	1.0	-54.5	-25.0	-29.5	
7680.00	-15.3	V	3.0	35.8	1.0	-50.1	-25.0	-25.1	
10240.00	-10.5	V	3.0	35.9	1.0	-45.4	-25.0	-20.4	
5120.00	-16.3	H	3.0	35.4	1.0	-50.8	-25.0	-25.8	
7680.00	-14.6	H	3.0	35.8	1.0	-49.4	-25.0	-24.4	
10240.00	-12.9	H	3.0	35.9	1.0	-47.8	-25.0	-22.8	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/22/2015							
<b>Test Engineer:</b>		Jude Semana/David Mun							
<b>Configuration:</b>		X-pos EUT/ AC Charger/ HS							
<b>Location:</b>		Chamber G							
<b>Mode:</b>		LTE_16QAM Band 7 Harmonics, 15MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
<b>Low Ch, 2507.5</b>									
5015.00	-17.7	V	3.0	35.5	1.0	-52.2	-25.0	-27.2	
7522.50	-15.6	V	3.0	35.7	1.0	-50.3	-25.0	-25.3	
10030.00	-13.7	V	3.0	36.0	1.0	-48.7	-25.0	-23.7	
5015.00	-17.4	H	3.0	35.5	1.0	-51.9	-25.0	-26.9	
7522.50	-14.8	H	3.0	35.7	1.0	-49.6	-25.0	-24.6	
10030.00	-13.0	H	3.0	36.0	1.0	-48.0	-25.0	-23.0	
<b>Mid Ch, 2535</b>									
5070.00	-15.1	V	3.0	35.4	1.0	-49.5	-25.0	-24.5	
7605.00	-12.7	V	3.0	35.8	1.0	-47.5	-25.0	-22.5	
10140.00	-11.6	V	3.0	36.0	1.0	-46.5	-25.0	-21.5	
5070.00	-15.3	H	3.0	35.4	1.0	-49.7	-25.0	-24.7	
7605.00	-11.2	H	3.0	35.8	1.0	-46.0	-25.0	-21.0	
10140.00	-10.8	H	3.0	36.0	1.0	-45.8	-25.0	-20.8	
<b>High Ch, 2562.5</b>									
5125.00	-17.0	V	3.0	35.4	1.0	-51.5	-25.0	-26.5	
7687.50	-14.2	V	3.0	35.8	1.0	-49.0	-25.0	-24.0	
10250.00	-13.1	V	3.0	35.9	1.0	-48.0	-25.0	-23.0	
5125.00	-16.6	H	3.0	35.4	1.0	-51.0	-25.0	-26.0	
7687.50	-13.3	H	3.0	35.8	1.0	-48.1	-25.0	-23.1	
10250.00	-13.0	H	3.0	35.9	1.0	-47.9	-25.0	-22.9	

Compliance Certification Services										
Above 1GHz High Frequency Substitution Measurement										
<b>Company:</b>		Sony								
<b>Project #:</b>		15J20225								
<b>Date:</b>		4/22/2015								
<b>Test Engineer:</b>		Jude Semana/David Mun								
<b>Configuration:</b>		X-pos EUT/ AC Charger/ HS								
<b>Location:</b>		Chamber G								
<b>Mode:</b>		LTE_QPSK Band 7 Harmonics, 15MHz Bandwidth								
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band  LTE7  15MHz  QPSK	Low Ch, 2507.5									
	5015.00	-16.4	V	3.0	35.5	1.0	-50.8	-25.0	-25.8	
	7522.50	-14.8	V	3.0	35.7	1.0	-49.6	-25.0	-24.6	
	10030.00	-12.9	V	3.0	36.0	1.0	-47.9	-25.0	-22.9	
	5015.00	-16.8	H	3.0	35.5	1.0	-51.2	-25.0	-26.2	
	7522.50	-13.9	H	3.0	35.7	1.0	-48.6	-25.0	-23.6	
	10030.00	-12.7	H	3.0	36.0	1.0	-47.7	-25.0	-22.7	
	Mid Ch, 2535									
	5070.00	-15.3	V	3.0	35.4	1.0	-49.7	-25.0	-24.7	
	7605.00	-13.2	V	3.0	35.8	1.0	-47.9	-25.0	-22.9	
	10140.00	-11.6	V	3.0	36.0	1.0	-46.5	-25.0	-21.5	
	5070.00	-14.4	H	3.0	35.4	1.0	-48.8	-25.0	-23.8	
	7605.00	-11.9	H	3.0	35.8	1.0	-46.7	-25.0	-21.7	
	10140.00	-10.7	H	3.0	36.0	1.0	-45.7	-25.0	-20.7	
	High Ch, 2562.5									
	5125.00	-17.0	V	3.0	35.4	1.0	-51.4	-25.0	-26.4	
	7687.50	-14.4	V	3.0	35.8	1.0	-49.2	-25.0	-24.2	
	10250.00	-13.0	V	3.0	35.9	1.0	-47.9	-25.0	-22.9	
5125.00	-16.5	H	3.0	35.4	1.0	-50.9	-25.0	-25.9		
7687.50	-13.7	H	3.0	35.8	1.0	-48.4	-25.0	-23.4		
10250.00	-13.4	H	3.0	35.9	1.0	-48.3	-25.0	-23.3		

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/22/2015							
<b>Test Engineer:</b>		Jude Semana/David Mun							
<b>Configuration:</b>		X-pos EUT/ AC Charger/ HS							
<b>Location:</b>		Chamber G							
<b>Mode:</b>		LTE_16QAM Band 7 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
LTE7									
10MHz									
16QAM									
Low Ch, 2505									
5010.00	-15.1	V	3.0	35.5	1.0	-49.5	-25.0	-24.5	
7515.00	-12.2	V	3.0	35.7	1.0	-47.0	-25.0	-22.0	
10020.00	-11.8	V	3.0	36.0	1.0	-46.8	-25.0	-21.8	
5010.00	-14.9	H	3.0	35.5	1.0	-49.3	-25.0	-24.3	
7515.00	-12.0	H	3.0	35.7	1.0	-46.7	-25.0	-21.7	
10020.00	-10.9	H	3.0	36.0	1.0	-45.9	-25.0	-20.9	
Mid Ch, 2535									
5070.00	-14.5	V	3.0	35.4	1.0	-49.0	-25.0	-24.0	
7605.00	-12.8	V	3.0	35.8	1.0	-47.6	-25.0	-22.6	
10140.00	-11.4	V	3.0	36.0	1.0	-46.3	-25.0	-21.3	
5070.00	-14.3	H	3.0	35.4	1.0	-48.8	-25.0	-23.8	
7605.00	-11.6	H	3.0	35.8	1.0	-46.3	-25.0	-21.3	
10140.00	-10.8	H	3.0	36.0	1.0	-45.7	-25.0	-20.7	
High Ch, 2565									
5130.00	-14.4	V	3.0	35.4	1.0	-48.8	-25.0	-23.8	
7695.00	-12.0	V	3.0	35.8	1.0	-46.8	-25.0	-21.8	
10260.00	-12.3	V	3.0	35.9	1.0	-47.2	-25.0	-22.2	
5130.00	-14.2	H	3.0	35.4	1.0	-48.6	-25.0	-23.6	
7695.00	-10.8	H	3.0	35.8	1.0	-45.6	-25.0	-20.6	
10260.00	-11.5	H	3.0	35.9	1.0	-46.4	-25.0	-21.4	

Compliance Certification Services Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/22/2015							
<b>Test Engineer:</b>		Jude Semana/David Mun							
<b>Configuration:</b>		X-pos EUT/ AC Charger/ HS							
<b>Location:</b>		Chamber G							
<b>Mode:</b>		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
Band									
Low Ch, 2505									
5010.00	-15.9	V	3.0	35.5	1.0	-50.4	-25.0	-25.4	
7515.00	-13.4	V	3.0	35.7	1.0	-48.1	-25.0	-23.1	
10020.00	-11.4	V	3.0	36.0	1.0	-46.5	-25.0	-21.5	
LTE7									
5010.00	-14.5	H	3.0	35.5	1.0	-48.9	-25.0	-23.9	
7515.00	-11.9	H	3.0	35.7	1.0	-46.6	-25.0	-21.6	
10MHz									
10020.00	-10.8	H	3.0	36.0	1.0	-45.9	-25.0	-20.9	
QPSK									
Mid Ch, 2535									
5070.00	-14.1	V	3.0	35.4	1.0	-48.5	-25.0	-23.5	
7605.00	-12.3	V	3.0	35.8	1.0	-47.0	-25.0	-22.0	
10140.00	-11.4	V	3.0	36.0	1.0	-46.4	-25.0	-21.4	
5070.00	-14.6	H	3.0	35.4	1.0	-49.1	-25.0	-24.1	
7605.00	-12.2	H	3.0	35.8	1.0	-46.9	-25.0	-21.9	
10140.00	-10.9	H	3.0	36.0	1.0	-45.8	-25.0	-20.8	
High Ch, 2565									
5130.00	-14.5	V	3.0	35.4	1.0	-48.9	-25.0	-23.9	
7695.00	-11.8	V	3.0	35.8	1.0	-46.6	-25.0	-21.6	
10260.00	-12.3	V	3.0	35.9	1.0	-47.2	-25.0	-22.2	
5130.00	-13.7	H	3.0	35.4	1.0	-48.1	-25.0	-23.1	
7695.00	-10.7	H	3.0	35.8	1.0	-45.5	-25.0	-20.5	
10260.00	-10.7	H	3.0	35.9	1.0	-45.6	-25.0	-20.6	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/22/2015							
<b>Test Engineer:</b>		Jude Semana/David Mun							
<b>Configuration:</b>		X-pos EUT/ AC Charger/ HS							
<b>Location:</b>		Chamber G							
<b>Mode:</b>		LTE_16QAM Band 7 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Band									
Low Ch, 2502.5									
5005.00	-14.5	V	3.0	35.5	1.0	-49.0	-25.0	-24.0	
7507.50	-12.6	V	3.0	35.7	1.0	-47.4	-25.0	-22.4	
10010.00	-11.7	V	3.0	36.0	1.0	-46.8	-25.0	-21.8	
LTE7									
5005.00	-14.6	H	3.0	35.5	1.0	-49.0	-25.0	-24.0	
7507.50	-11.9	H	3.0	35.7	1.0	-46.6	-25.0	-21.6	
10010.00	-11.3	H	3.0	36.0	1.0	-46.3	-25.0	-21.3	
5MHz									
16QAM									
Mid Ch, 2535									
5070.00	-19.6	V	3.0	35.4	1.0	-54.1	-25.0	-29.1	
7605.00	-17.8	V	3.0	35.8	1.0	-52.6	-25.0	-27.6	
10140.00	-16.2	V	3.0	36.0	1.0	-51.2	-25.0	-26.2	
5070.00	-18.6	H	3.0	35.4	1.0	-53.0	-25.0	-28.0	
7605.00	-17.0	H	3.0	35.8	1.0	-51.7	-25.0	-26.7	
10140.00	-16.0	H	3.0	36.0	1.0	-50.9	-25.0	-25.9	
High Ch, 2567.5									
5135.00	-14.7	V	3.0	35.4	1.0	-49.1	-25.0	-24.1	
7702.50	-12.3	V	3.0	35.8	1.0	-47.1	-25.0	-22.1	
10270.00	-11.6	V	3.0	35.9	1.0	-46.5	-25.0	-21.5	
5135.00	-12.2	H	3.0	35.4	1.0	-46.7	-25.0	-21.7	
7702.50	-10.9	H	3.0	35.8	1.0	-45.7	-25.0	-20.7	
10270.00	-11.7	H	3.0	35.9	1.0	-46.6	-25.0	-21.6	

Compliance Certification Services									
Above 1GHz High Frequency Substitution Measurement									
<b>Company:</b>		Sony							
<b>Project #:</b>		15J20225							
<b>Date:</b>		4/22/2015							
<b>Test Engineer:</b>		Jude Semana/David Mun							
<b>Configuration:</b>		X-pos EUT/ AC Charger/ HS							
<b>Location:</b>		Chamber G							
<b>Mode:</b>		LTE_QPSK Band 7 Harmonics, 5MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 2502.5									
Band	5005.00	-14.5	V	3.0	35.5	1.0	-48.9	-25.0	-23.9
	7507.50	-12.4	V	3.0	35.7	1.0	-47.1	-25.0	-22.1
LTE7	10010.00	-11.5	V	3.0	36.0	1.0	-46.6	-25.0	-21.6
	5005.00	-14.6	H	3.0	35.5	1.0	-49.0	-25.0	-24.0
5MHz	7507.50	-12.5	H	3.0	35.7	1.0	-47.2	-25.0	-22.2
	10010.00	-10.4	H	3.0	36.0	1.0	-45.5	-25.0	-20.5
Mid Ch, 2535									
QPSK	5070.00	-19.5	V	3.0	35.4	1.0	-54.0	-25.0	-29.0
	7605.00	-17.6	V	3.0	35.8	1.0	-52.4	-25.0	-27.4
	10140.00	-16.8	V	3.0	36.0	1.0	-51.7	-25.0	-26.7
	5070.00	-13.9	H	3.0	35.4	1.0	-48.3	-25.0	-23.3
	7605.00	-11.6	H	3.0	35.8	1.0	-46.4	-25.0	-21.4
	10140.00	-10.4	H	3.0	36.0	1.0	-45.3	-25.0	-20.3
High Ch, 2567.5									
	5135.00	-14.8	V	3.0	35.4	1.0	-49.2	-25.0	-24.2
	7702.50	-12.6	V	3.0	35.8	1.0	-47.4	-25.0	-22.4
	10270.00	-12.1	V	3.0	35.9	1.0	-47.0	-25.0	-22.0
	5135.00	-12.8	H	3.0	35.4	1.0	-47.3	-25.0	-22.3
	7702.50	-11.9	H	3.0	35.8	1.0	-46.7	-25.0	-21.7
	10270.00	-11.6	H	3.0	35.9	1.0	-46.5	-25.0	-21.5