Band

LTE4

10MHz

16QAM

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

Company: Sony
Project #: 14U17929
Date: 07/01/14
Test Engineer: T. Oeur
Configuration: EUT only X position
Mode: LTE B4 10MHz 16QAM

Test Equipment:
Receiving: Horn T119, and Chamber C SMA Cables
Substitution: Horn T72 Substitution, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1715.00	10.76	V	0.85	7.9	17.81	30.0	-12.2	
1715.00	14.75	H	0.85	7.9	21.80	30.0	-8.2	
Mid Ch								
1732.50	9.68	V	0.85	7.9	16.73	30.0	-13.3	
1732.50	14.94	H	0.85	7.9	21.99	30.0	-8.0	
High Ch								
1750.00	8.23	V	0.85	7.9	15.28	30.0	-14.7	
1750.00	15.98	H	0.85	7.9	23.03	30.0	-7.0	

Rev. 3.17.11
Note: For Band 4 EIRP limit is 30dBm

Band

LTE4

10MHz

QPSK

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

Company: Sony
Project #: 14U17929
Date: 07/01/14
Test Engineer: T. Oeur
Configuration: EUT only X position
Mode: LTE B4 10MHz QPSK

Test Equipment:
Receiving: Horn T119, and Chamber C SMA Cables
Substitution: Horn T72 Substitution, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1715.00	11.97	V	0.85	7.9	19.02	30.0	-11.0	
1715.00	15.54	H	0.85	7.9	22.59	30.0	-7.4	
Mid Ch								
1732.50	10.64	V	0.85	7.9	17.69	30.0	-12.3	
1732.50	16.29	H	0.85	7.9	23.34	30.0	-6.7	
High Ch								
1750.00	9.17	V	0.85	7.9	16.22	30.0	-13.8	
1750.00	16.26	H	0.85	7.9	23.31	30.0	-6.7	

Rev. 3.17.11
Note: For Band 4 EIRP limit is 30dBm

Band

LTE4

5MHz

16QAM

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

Company: Sony
Project #: 14U17929
Date: 07/02/14
Test Engineer: O. Stoelting
Configuration: EUT only, X position
Mode: LTE_B4_5MHz_16QAM

Test Equipment:
Receiving: Horn T119, and Chamber C SMA Cables
Substitution: Horn T72 Substitution, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1712.50	8.85	V	0.85	7.9	15.90	30.0	-14.1	
1712.50	15.60	H	0.85	7.9	22.65	30.0	-7.4	
Mid Ch								
1732.50	7.53	V	0.85	7.9	14.58	30.0	-15.4	
1732.50	15.93	H	0.85	7.9	22.98	30.0	-7.0	
High Ch								
1752.50	8.89	V	0.85	7.9	15.94	30.0	-14.1	
1752.50	15.92	H	0.85	7.9	22.97	30.0	-7.0	

Rev. 3.17.11
Note: For Band 4 EIRP limit is 30dBm

Band

LTE4

5MHz

QPSK

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

Company: Sony
Project #: 14U17929
Date: 07/02/14
Test Engineer: O. Stoelting
Configuration: EUT only, X position
Mode: LTE_B4_5MHz_QPSK

Test Equipment:
Receiving: Horn T119, and Chamber C SMA Cables
Substitution: Horn T72 Substitution, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1712.50	10.17	V	0.85	7.9	17.22	30.0	-12.8	
1712.50	14.98	H	0.85	7.9	22.03	30.0	-8.0	
Mid Ch								
1732.50	8.66	V	0.85	7.9	15.71	30.0	-14.3	
1732.50	16.04	H	0.85	7.9	23.09	30.0	-6.9	
High Ch								
1752.50	9.31	V	0.85	7.9	16.36	30.0	-13.6	
1752.50	15.93	H	0.85	7.9	22.98	30.0	-7.0	

Rev. 3.17.11
Note: For Band 4 EIRP limit is 30dBm

Band

LTE4

3MHz

16QAM

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

Company: Sony
Project #: 14U17929
Date: 07/02/14
Test Engineer: O. Stoelting
Configuration: EUT only, X position
Mode: LTE_B4_3MHz_16QAM

Test Equipment:
Receiving: Horn T119, and Chamber C SMA Cables
Substitution: Horn T72 Substitution, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1711.50	11.65	V	0.85	7.9	18.70	30.0	-11.3	
1711.50	15.15	H	0.85	7.9	22.20	30.0	-7.8	
Mid Ch								
1732.50	9.50	V	0.85	7.9	16.55	30.0	-13.5	
1732.50	14.99	H	0.85	7.9	22.04	30.0	-8.0	
High Ch								
1753.50	8.89	V	0.85	7.9	15.94	30.0	-14.1	
1753.50	15.82	H	0.85	7.9	22.87	30.0	-7.1	

Rev. 3.17.11
Note: For Band 4 EIRP limit is 30dBm

Band

LTE4

3MHz

QPSK

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

Company: Sony
Project #: 14U17929
Date: 07/02/14
Test Engineer: O. Stoelting
Configuration: EUT only, X position
Mode: LTE_B4_3MHz_QPSK

Test Equipment:
Receiving: Horn T119, and Chamber C SMA Cables
Substitution: Horn T72 Substitution, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1711.50	12.45	V	0.85	7.9	19.50	30.0	-10.5	
1711.50	14.28	H	0.85	7.9	21.33	30.0	-8.7	
Mid Ch								
1732.50	10.36	V	0.85	7.9	17.41	30.0	-12.6	
1732.50	16.11	H	0.85	7.9	23.16	30.0	-6.8	
High Ch								
1753.50	9.94	V	0.85	7.9	16.99	30.0	-13.0	
1753.50	15.82	H	0.85	7.9	22.87	30.0	-7.1	

Rev. 3.17.11
Note: For Band 4 EIRP limit is 30dBm

Band

LTE4

1.4MHz

16QAM

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

Company: Sony
Project #: 14U17929
Date: 07/01/14
Test Engineer: O. Stoelting
Configuration: X Position, EUT only
Mode: LTE_B4_1.4MHz_16QAM

Test Equipment:
Receiving: Horn T136, and Chamber A SMA Cables
Substitution: Horn T72 Substitution, 5ft (SN: 16795) SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1710.70	10.01	V	0.85	7.90	17.06	30.0	-12.9	
1710.70	13.13	H	0.85	7.90	20.18	30.0	-9.8	
Mid Ch								
1732.50	8.66	V	0.85	7.90	15.71	30.0	-14.3	
1732.50	15.08	H	0.85	7.90	22.13	30.0	-7.9	
High Ch								
1754.30	6.18	V	0.85	7.90	13.23	30.0	-16.8	
1754.30	14.59	H	0.85	7.90	21.64	30.0	-8.4	

Rev. 3.17.11
Note: For Band 4 EIRP limit is 30dBm

Band

LTE4

1.4MHz

QPSK

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

Company: Sony
Project #: 14U17929
Date: 07/01/14
Test Engineer: O. Stoelting
Configuration: X Position, EUT only
Mode: LTE_B4_1.4MHz_QPSK

Test Equipment:
Receiving: Horn T136, and Chamber A SMA Cables
Substitution: Horn T72 Substitution, 5ft (SN: 16795) SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1710.70	10.63	V	0.85	7.90	17.68	30.0	-12.3	
1710.70	14.24	H	0.85	7.90	21.29	30.0	-8.7	
Mid Ch								
1732.50	9.09	V	0.85	7.90	16.14	30.0	-13.9	
1732.50	16.35	H	0.85	7.90	23.40	30.0	-6.6	
High Ch								
1754.30	7.52	V	0.85	7.90	14.57	30.0	-15.4	
1754.30	15.48	H	0.85	7.90	22.53	30.0	-7.5	

Rev. 3.17.11
Note: For Band 4 EIRP limit is 30dBm

Band

LTE2

20MHz

16QAM

High Frequency Fundamental Measurement
Compliance Certification Services Chamber B

Company: Sony
Project #: 14U17929
Date: 07/01/14
Test Engineer: O. Stoelting
Configuration: EUT X position
Mode: LTE Band 2_20MHz_16QAM

Test Equipment:
Receiving: Horn T136, and Chamber A SMA Cables
Substitution: Horn T72 Substitution, 5ft (SN: 16795) SMA Cable Warehouse

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1.860	11.8	V	0.85	5.19	16.18	33.0	-16.8	
1.860	18.7	H	0.85	5.19	23.02	33.0	-10.0	
Mid Ch								
1.880	11.7	V	0.85	5.03	15.83	33.0	-17.2	
1.880	18.5	H	0.85	5.03	22.69	33.0	-10.3	
High Ch								
1.900	11.9	V	0.85	4.94	16.00	33.0	-17.0	
1.900	18.5	H	0.85	4.94	22.57	33.0	-10.4	

Band

LTE2

20MHz

QPSK

High Frequency Fundamental Measurement
Compliance Certification Services Chamber A

Company: Sony
Project #: 14U17929
Date: 07/01/14
Test Engineer: O. Stoelting
Configuration: EUT X position
Mode: LTE Band 2_20MHz_QPSK

Test Equipment:
Receiving: Horn T136, and Chamber A SMA Cables
Substitution: Horn T72 Substitution, 5ft (SN: 16795) SMA Cable Warehouse

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1.860	12.7	V	0.85	5.19	17.00	33.0	-16.0	
1.860	18.6	H	0.85	5.19	22.92	33.0	-10.1	
Mid Ch								
1.880	12.7	V	0.85	5.03	16.83	33.0	-16.2	
1.880	18.3	H	0.85	5.03	22.50	33.0	-10.5	
High Ch								
1.900	12.7	V	0.85	4.94	16.75	33.0	-16.3	
1.900	19.2	H	0.85	4.94	23.33	33.0	-9.7	

Band

LTE2

15MHz

16QAM

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

Company: Sony
Project #: 14U17929
Date: 06/30/14
Test Engineer: T. Oeur
Configuration: EUT only X position
Mode: LTE B2 15MHz 16QAM

Test Equipment:
Receiving: Horn T119, and Chamber C SMA Cables
Substitution: Horn T72 Substitution, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1857.50	6.48	V	0.9	7.9	13.53	33.0	-19.5	
1857.50	15.63	H	0.9	7.9	22.68	33.0	-10.3	
Mid Ch								
1880.00	6.47	V	0.9	7.9	13.52	33.0	-19.5	
1880.00	14.57	H	0.9	7.9	21.62	33.0	-11.4	
High Ch								
1902.50	8.68	V	0.9	7.9	15.73	33.0	-17.3	
1902.50	15.50	H	0.9	7.9	22.55	33.0	-10.5	

Rev. 3.17.11
Note: For Band 4 EIRP limit is 30dBm

Band

LTE2

15MHz

QPSK

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

Company: Sony
Project #: 14U17929
Date: 06/30/14
Test Engineer: T. Oeur
Configuration: EUT only X position
Mode: LTE B2 15MHz QPSK

Test Equipment:
Receiving: Horn T119, and Chamber C SMA Cables
Substitution: Horn T72 Substitution, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1857.50	7.61	V	0.9	7.9	14.66	33.0	-18.3	
1857.50	16.91	H	0.9	7.9	23.96	33.0	-9.0	
Mid Ch								
1880.00	7.82	V	0.9	7.9	14.87	33.0	-18.1	
1880.00	15.55	H	0.9	7.9	22.60	33.0	-10.4	
High Ch								
1902.50	10.09	V	0.9	7.9	17.14	33.0	-15.9	
1902.50	16.92	H	0.9	7.9	23.97	33.0	-9.0	

Rev. 3.17.11
Note: For Band 4 EIRP limit is 30dBm

Band

LTE2

10MHz

16QAM

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

Company: Sony
Project #: 14U17929
Date: 06/30/14
Test Engineer: T. Oeur
Configuration: EUT only X position
Mode: LTE B2 10MHz 16QAM

Test Equipment:
Receiving: Horn T119, and Chamber C SMA Cables
Substitution: Horn T72 Substitution, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1855.00	9.05	V	0.9	7.9	16.10	33.0	-16.9	
1855.00	15.10	H	0.9	7.9	22.15	33.0	-10.9	
Mid Ch								
1880.00	8.53	V	0.9	7.9	15.58	33.0	-17.4	
1880.00	14.66	H	0.9	7.9	21.71	33.0	-11.3	
High Ch								
1905.00	5.28	V	0.9	7.9	12.33	33.0	-20.7	
1905.00	15.31	H	0.9	7.9	22.36	33.0	-10.6	

Rev. 3.17.11
Note: For Band 4 EIRP limit is 30dBm

Band

LTE2

10MHz

QPSK

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

Company: Sony
Project #: 14U17929
Date: 06/30/14
Test Engineer: T. Oeur
Configuration: EUT only X position
Mode: LTE B2 10MHz QPSK

Test Equipment:
Receiving: Horn T119, and Chamber C SMA Cables
Substitution: Horn T72 Substitution, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1855.00	10.03	V	0.9	7.9	17.08	33.0	-15.9	
1855.00	16.47	H	0.9	7.9	23.52	33.0	-9.5	
Mid Ch								
1880.00	9.21	V	0.9	7.9	16.26	33.0	-16.7	
1880.00	15.87	H	0.9	7.9	22.92	33.0	-10.1	
High Ch								
1905.00	9.33	V	0.9	7.9	16.38	33.0	-16.6	
1905.00	16.51	H	0.9	7.9	23.56	33.0	-9.4	

Rev. 3.17.11
Note: For Band 4 EIRP limit is 30dBm

Band

LTE2

5MHz

16QAM

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

Company: Sony
Project #: 14U17929
Date: 06/30/14
Test Engineer: T. Oeur
Configuration: EUT only X position
Mode: LTE B2 5MHz 16QAM

Test Equipment:
Receiving: Horn T119, and Chamber C SMA Cables
Substitution: Horn T72 Substitution, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1852.50	10.94	V	0.9	7.9	17.99	33.0	-15.0	
1852.50	14.55	H	0.9	7.9	21.60	33.0	-11.4	
Mid Ch								
1880.00	9.30	V	0.9	7.9	16.35	33.0	-16.7	
1880.00	14.59	H	0.9	7.9	21.64	33.0	-11.4	
High Ch								
1907.50	8.46	V	0.9	7.9	15.51	33.0	-17.5	
1907.50	15.54	H	0.9	7.9	22.59	33.0	-10.4	

Rev. 3.17.11
Note: For Band 4 EIRP limit is 30dBm

Band

LTE2

5MHz

QPSK

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

Company: Sony
Project #: 14U17929
Date: 06/30/14
Test Engineer: T. Oeur
Configuration: EUT only X position
Mode: LTE B2 5MHz QPSK

Test Equipment:
Receiving: Horn T119, and Chamber C SMA Cables
Substitution: Horn T72 Substitution, 4ft SMA Cable Warehouse

f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Notes
Low Ch								
1852.50	11.17	V	0.9	7.9	18.22	33.0	-14.8	
1852.50	15.52	H	0.9	7.9	22.57	33.0	-10.4	
Mid Ch								
1880.00	10.64	V	0.9	7.9	17.69	33.0	-15.3	
1880.00	15.79	H	0.9	7.9	22.84	33.0	-10.2	
High Ch								
1907.50	9.58	V	0.9	7.9	16.63	33.0	-16.4	
1907.50	17.33	H	0.9	7.9	24.38	33.0	-8.6	

Rev. 3.17.11
Note: For Band 4 EIRP limit is 30dBm

Band

LTE2

3MHz

16QAM

High Frequency Fundamental Measurement
Compliance Certification Services Chamber A

Company: Sony
Project #: 14U17929
Date: 07/01/14
Test Engineer: O. Stoelting
Configuration: X Position, EUT only
Mode: LTE Band_2_3MHz_16QAM

Test Equipment:
Receiving: Horn T136, and Chamber A SMA Cables
Substitution: Horn T72 Substitution, 5ft (SN: 16795) SMA Cable Warehouse

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1.852	11.5	V	0.85	7.92	18.52	33.0	-14.5	
1.852	15.5	H	0.85	7.92	22.59	33.0	-10.4	
Mid Ch								
1.880	12.4	V	0.85	7.92	19.48	33.0	-13.5	
1.880	16.3	H	0.85	7.92	23.38	33.0	-9.6	
High Ch								
1.909	12.6	V	0.85	7.85	19.65	33.0	-13.4	
1.909	15.7	H	0.85	7.85	22.66	33.0	-10.3	

Rev. 3.17.11

Band

LTE2

3MHz

QPSK

High Frequency Fundamental Measurement
Compliance Certification Services Chamber A

Company: Sony
Project #: 14U17929
Date: 07/01/14
Test Engineer: O. Stoelting
Configuration: X Position, EUT only
Mode: LTE Band_2_3MHz_QPSK

Test Equipment:
Receiving: Horn T136, and Chamber A SMA Cables
Substitution: Horn T72 Substitution, 5ft (SN: 16795) SMA Cable Warehouse

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1.852	12.3	V	0.85	7.92	19.39	33.0	-13.6	
1.852	16.8	H	0.85	7.92	23.83	33.0	-9.2	
Mid Ch								
1.880	13.2	V	0.85	7.92	20.28	33.0	-12.7	
1.880	17.5	H	0.85	7.92	24.53	33.0	-8.5	
High Ch								
1.909	13.3	V	0.85	7.85	20.28	33.0	-12.7	
1.909	16.9	H	0.85	7.85	23.93	33.0	-9.1	

Rev. 3.17.11

Band

LTE2

1.4MHz

16QAM

High Frequency Fundamental Measurement
Compliance Certification Services Chamber A

Company: Sony
Project #: 14U17929
Date: 07/01/14
Test Engineer: O. Stoelting
Configuration: X Position, EUT only
Mode: LTE Band 2_1.4MHz_16QAM

Test Equipment:
Receiving: Horn T136, and Chamber A SMA Cables
Substitution: Horn T72 Substitution, 5ft (SN: 16795) SMA Cable Warehouse

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1.851	12.4	V	0.85	7.92	19.47	33.0	-13.5	
1.851	16.0	H	0.85	7.92	23.05	33.0	-10.0	
Mid Ch								
1.880	13.1	V	0.85	7.92	20.13	33.0	-12.9	
1.880	15.4	H	0.85	7.92	22.51	33.0	-10.5	
High Ch								
1.909	13.2	V	0.85	7.85	20.24	33.0	-12.8	
1.909	16.7	H	0.85	7.85	23.65	33.0	-9.4	

Rev. 3.17.11

Band

LTE2

1.4MHz

QPSK

High Frequency Fundamental Measurement
Compliance Certification Services Chamber A

Company: Sony
Project #: 14U17929
Date: 07/01/14
Test Engineer: O. Stoelting
Configuration: X Position, EUT only
Mode: LTE Band 2_1.4MHz_QPSK

Test Equipment:
Receiving: Horn T136, and Chamber A SMA Cables
Substitution: Horn T72 Substitution, 5ft (SN: 16795) SMA Cable Warehouse

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch								
1.851	13.0	V	0.85	7.92	20.06	33.0	-12.9	
1.851	17.2	H	0.85	7.92	24.22	33.0	-8.8	
Mid Ch								
1.880	14.4	V	0.85	7.92	21.43	33.0	-11.6	
1.880	16.1	H	0.85	7.92	23.15	33.0	-9.9	
High Ch								
1.909	14.0	V	0.85	7.85	21.00	33.0	-12.0	
1.909	17.2	H	0.85	7.85	24.22	33.0	-8.8	

Rev. 3.17.11

11.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, and §27

LIMIT

§22.917 (e) and §24.238 (a): Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB

TEST PROCEDURE

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

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

RESULTS

11.2.1. SPURIOUS RADIATION DATA

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: B. Liu, K. Ros
Configuration: X-pos EUT w/ AC Adaptor
Mode: HSDPA B2 HARM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 24

Band: Band 2
HSDPA

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1852.4MHz									
3.705	-5.8	V	3.0	35.4	1.0	-40.2	-13.0	-27.2	
5.557	-2.6	V	3.0	34.7	1.0	-36.3	-13.0	-23.3	
7.410	1.7	V	3.0	34.9	1.0	-32.2	-13.0	-19.2	
3.705	-6.7	H	3.0	35.4	1.0	-41.1	-13.0	-28.1	
5.557	-2.4	H	3.0	34.7	1.0	-36.2	-13.0	-23.2	
7.410	3.6	H	3.0	34.9	1.0	-30.3	-13.0	-17.3	
Mid Ch, 1880MHz									
3.760	-6.1	V	3.0	35.3	1.0	-40.5	-13.0	-27.5	
5.640	-2.4	V	3.0	34.7	1.0	-36.1	-13.0	-23.1	
7.520	2.1	V	3.0	34.9	1.0	-31.9	-13.0	-18.9	
3.760	-5.7	H	3.0	35.3	1.0	-40.1	-13.0	-27.1	
5.640	-2.3	H	3.0	34.7	1.0	-36.1	-13.0	-23.1	
7.520	3.4	H	3.0	34.9	1.0	-30.5	-13.0	-17.5	
High Ch,1907.6MHz									
3.815	-5.8	V	3.0	35.3	1.0	-40.1	-13.0	-27.1	
5.723	-3.0	V	3.0	34.7	1.0	-36.7	-13.0	-23.7	
7.630	2.7	V	3.0	34.9	1.0	-31.3	-13.0	-18.3	
3.815	-5.4	H	3.0	35.3	1.0	-39.7	-13.0	-26.7	
5.723	-1.5	H	3.0	34.7	1.0	-35.2	-13.0	-22.2	
7.630	4.4	H	3.0	34.9	1.0	-29.6	-13.0	-16.6	

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

Band

Band 2

REL99

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/02/14
Test Engineer: K. Huynh
Configuration: X-pos. EUT with AC charger
Mode: Tx, 1900MHz HSDPA

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

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1852.4MHz									
3.705	-17.1	V	3.0	35.4	1.0	-51.5	-13.0	-38.5	
5.557	-14.0	V	3.0	34.7	1.0	-47.8	-13.0	-34.8	
7.409	-12.2	V	3.0	34.9	1.0	-46.1	-13.0	-33.1	
3.705	-19.2	H	3.0	35.4	1.0	-53.6	-13.0	-40.6	
5.557	-14.5	H	3.0	34.7	1.0	-48.2	-13.0	-35.2	
7.409	-12.2	H	3.0	34.9	1.0	-46.1	-13.0	-33.1	
Mid Ch, 1880MHz									
3.760	-17.6	V	3.0	35.3	1.0	-51.9	-13.0	-38.9	
5.640	-15.3	V	3.0	34.7	1.0	-49.0	-13.0	-36.0	
7.520	-13.3	V	3.0	34.9	1.0	-47.2	-13.0	-34.2	
3.760	-17.5	H	3.0	35.3	1.0	-51.8	-13.0	-38.8	
5.640	-14.9	H	3.0	34.7	1.0	-48.6	-13.0	-35.6	
7.520	-12.1	H	3.0	34.9	1.0	-46.0	-13.0	-33.0	
High Ch, 1907.6MHz									
3.815	-17.0	V	3.0	35.3	1.0	-51.3	-13.0	-38.3	
5.723	-14.6	V	3.0	34.7	1.0	-48.4	-13.0	-35.4	
7.630	-13.3	V	3.0	34.9	1.0	-47.2	-13.0	-34.2	
3.815	-17.2	H	3.0	35.3	1.0	-51.5	-13.0	-38.5	
5.723	-14.0	H	3.0	34.7	1.0	-47.7	-13.0	-34.7	
7.630	-11.9	H	3.0	34.9	1.0	-45.9	-13.0	-32.9	

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Band

Band 4

HSDPA

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/08/14
Test Engineer:
Configuration: X-pos. EUT with AC charger
Mode: Tx, HSDPA Band 4

Chamber	Pre-amplifer	Filter	Limit
5m Chamber A	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, 1712.4MHz									
3.425	-11.7	V	3.0	35.7	1.0	-46.4	-13.0	-33.4	
5.137	-18.1	V	3.0	34.7	1.0	-51.8	-13.0	-38.8	
6.850	-14.1	V	3.0	34.8	1.0	-47.9	-13.0	-34.9	
3.425	-11.6	H	3.0	35.7	1.0	-46.3	-13.0	-33.3	
5.137	-17.4	H	3.0	34.7	1.0	-51.1	-13.0	-38.1	
6.850	-12.3	H	3.0	34.8	1.0	-46.1	-13.0	-33.1	
Mid Ch, 1732.6MHz									
3.465	-16.6	V	3.0	35.6	1.0	-51.3	-13.0	-38.3	
5.198	-16.7	V	3.0	34.7	1.0	-50.4	-13.0	-37.4	
6.930	-13.8	V	3.0	34.8	1.0	-47.6	-13.0	-34.6	
3.465	-16.7	H	3.0	35.6	1.0	-51.4	-13.0	-38.4	
5.198	-15.2	H	3.0	34.7	1.0	-48.9	-13.0	-35.9	
6.930	-12.7	H	3.0	34.8	1.0	-46.6	-13.0	-33.6	
High Ch, 1752.6MHz									
3.505	-17.8	V	3.0	35.6	1.0	-52.4	-13.0	-39.4	
5.258	-15.9	V	3.0	34.7	1.0	-49.6	-13.0	-36.6	
7.010	-13.0	V	3.0	34.8	1.0	-46.8	-13.0	-33.8	
3.505	-17.5	H	3.0	35.6	1.0	-52.1	-13.0	-39.1	
5.258	-16.0	H	3.0	34.7	1.0	-49.7	-13.0	-36.7	
7.010	-11.6	H	3.0	34.8	1.0	-45.5	-13.0	-32.5	

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Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/08/14
Test Engineer:
Configuration: X-pos. EUT with AC charger
Mode: Tx, REL99 Band 4

Chamber	Pre-amplifer	Filter	Limit
5m Chamber A	T34 8449B	Filter 1	Part 27

Band

Band 4

REL99

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1712.4MHz									
3.425	-10.8	V	3.0	35.7	1.0	-45.5	-13.0	-32.5	
5.137	-17.8	V	3.0	34.7	1.0	-51.5	-13.0	-38.5	
6.850	-15.1	V	3.0	34.8	1.0	-48.9	-13.0	-35.9	
3.425	-10.5	H	3.0	35.7	1.0	-45.2	-13.0	-32.2	
5.137	-17.2	H	3.0	34.7	1.0	-50.9	-13.0	-37.9	
6.850	-12.7	H	3.0	34.8	1.0	-46.5	-13.0	-33.5	
Mid Ch, 1732.6MHz									
3.465	-16.9	V	3.0	35.6	1.0	-51.6	-13.0	-38.6	
5.198	-16.8	V	3.0	34.7	1.0	-50.5	-13.0	-37.5	
6.930	-13.6	V	3.0	34.8	1.0	-47.5	-13.0	-34.5	
3.465	-14.8	H	3.0	35.6	1.0	-49.5	-13.0	-36.5	
5.198	-15.5	H	3.0	34.7	1.0	-49.2	-13.0	-36.2	
6.930	-11.5	H	3.0	34.8	1.0	-45.3	-13.0	-32.3	
High Ch, 1752.6MHz									
3.505	-18.6	V	3.0	35.6	1.0	-53.2	-13.0	-40.2	
5.258	-12.9	V	3.0	34.7	1.0	-46.6	-13.0	-33.6	
7.010	-13.0	V	3.0	34.8	1.0	-46.8	-13.0	-33.8	
3.505	-17.0	H	3.0	35.6	1.0	-51.6	-13.0	-38.6	
5.258	-15.8	H	3.0	34.7	1.0	-49.5	-13.0	-36.5	
7.010	-10.8	H	3.0	34.8	1.0	-44.7	-13.0	-31.7	

Rev. 03.03.09

Band

Band 5

HSDPA

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: B. Liu
Configuration: X-pos EUT w/ AC Adaptor
Mode: HSDPA B5 HARM

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

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.4MHz									
1.653	-15.8	V	3.0	37.4	1.0	-52.1	-13.0	-39.1	
2.479	-9.1	V	3.0	36.4	1.0	-44.5	-13.0	-31.5	
3.306	-6.7	V	3.0	35.8	1.0	-41.5	-13.0	-28.5	
1.653	-14.8	H	3.0	37.4	1.0	-51.2	-13.0	-38.2	
2.479	-11.5	H	3.0	36.4	1.0	-46.9	-13.0	-33.9	
3.306	-6.1	H	3.0	35.8	1.0	-40.9	-13.0	-27.9	
Mid Ch, 836.6MHz									
1.673	-15.9	V	3.0	37.3	1.0	-52.2	-13.0	-39.2	
2.510	-9.7	V	3.0	36.4	1.0	-45.0	-13.0	-32.0	
3.346	-6.1	V	3.0	35.8	1.0	-40.9	-13.0	-27.9	
1.673	-15.7	H	3.0	37.3	1.0	-52.0	-13.0	-39.0	
2.510	-11.1	H	3.0	36.4	1.0	-46.5	-13.0	-33.5	
3.346	-6.0	H	3.0	35.8	1.0	-40.8	-13.0	-27.8	
High Ch, 846.6MHz									
1.693	-15.3	V	3.0	37.3	1.0	-51.6	-13.0	-38.6	
2.539	-9.6	V	3.0	36.3	1.0	-44.9	-13.0	-31.9	
3.386	-6.3	V	3.0	35.7	1.0	-41.0	-13.0	-28.0	
1.693	-15.5	H	3.0	37.3	1.0	-51.8	-13.0	-38.8	
2.539	-11.3	H	3.0	36.3	1.0	-46.6	-13.0	-33.6	
3.346	-5.7	H	3.0	35.8	1.0	-40.5	-13.0	-27.5	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: : B.Liu
Configuration: X-pos EUT w/ AC Adaptor
Mode: REL99 B5 HARM

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

Band

Band 5

REL99

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.4MHz									
1.653	-15.8	V	3.0	37.4	1.0	-52.1	-13.0	-39.1	
2.479	-9.8	V	3.0	36.4	1.0	-45.2	-13.0	-32.2	
3.306	-6.5	V	3.0	35.8	1.0	-41.3	-13.0	-28.3	
1.653	-15.0	H	3.0	37.4	1.0	-51.4	-13.0	-38.4	
2.479	-11.3	H	3.0	36.4	1.0	-46.7	-13.0	-33.7	
3.306	-6.5	H	3.0	35.8	1.0	-41.3	-13.0	-28.3	
Mid Ch, 836.6MHz									
1.673	-16.0	V	3.0	37.3	1.0	-52.4	-13.0	-39.4	
2.510	-9.7	V	3.0	36.4	1.0	-45.0	-13.0	-32.0	
3.346	-6.6	V	3.0	35.8	1.0	-41.3	-13.0	-28.3	
1.673	-14.9	H	3.0	37.3	1.0	-51.3	-13.0	-38.3	
2.510	-11.3	H	3.0	36.4	1.0	-46.6	-13.0	-33.6	
3.346	-6.1	H	3.0	35.8	1.0	-40.9	-13.0	-27.9	
High Ch, 846.6MHz									
1.693	-15.2	V	3.0	37.3	1.0	-51.5	-13.0	-38.5	
2.539	-9.4	V	3.0	36.3	1.0	-44.8	-13.0	-31.8	
3.386	-6.6	V	3.0	35.7	1.0	-41.3	-13.0	-28.3	
1.693	-15.1	H	3.0	37.3	1.0	-51.4	-13.0	-38.4	
2.539	-11.1	H	3.0	36.3	1.0	-46.5	-13.0	-33.5	
3.346	-7.1	H	3.0	35.8	1.0	-41.9	-13.0	-28.9	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/02/14
Test Engineer: K. Huynh
Configuration: X-pos. EUT with AC charger
Mode: EGPRS 1900

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

Band: GSM1900 EGPRS

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850MHz									
3.700	-16.2	V	3.0	35.4	1.0	-50.6	-13.0	-37.6	
5.550	-6.9	V	3.0	34.7	1.0	-40.6	-13.0	-27.6	
7.400	-10.7	V	3.0	34.9	1.0	-44.6	-13.0	-31.6	
3.700	-16.6	H	3.0	35.4	1.0	-51.0	-13.0	-38.0	
5.550	-2.0	H	3.0	34.7	1.0	-35.7	-13.0	-22.7	
7.400	-9.4	H	3.0	34.9	1.0	-43.3	-13.0	-30.3	
Mid Ch, 1880.0MHz									
3.760	-14.8	V	3.0	35.3	1.0	-49.2	-13.0	-36.2	
5.640	1.0	V	3.0	34.7	1.0	-32.7	-13.0	-19.7	
7.520	-10.4	V	3.0	34.9	1.0	-44.4	-13.0	-31.4	
3.760	-15.4	H	3.0	35.3	1.0	-49.7	-13.0	-36.7	
5.640	-2.9	H	3.0	34.7	1.0	-36.6	-13.0	-23.6	
7.520	-9.6	H	3.0	34.9	1.0	-43.5	-13.0	-30.5	
High Ch, 1909.8 MHz									
3.820	-15.0	V	3.0	35.3	1.0	-49.3	-13.0	-36.3	
5.729	-12.5	V	3.0	34.7	1.0	-46.3	-13.0	-33.3	
7.639	-11.0	V	3.0	35.0	1.0	-45.0	-13.0	-32.0	
3.820	-14.4	H	3.0	35.3	1.0	-48.7	-13.0	-35.7	
5.729	-6.5	H	3.0	34.7	1.0	-40.3	-13.0	-27.3	
7.639	-9.9	H	3.0	35.0	1.0	-43.8	-13.0	-30.8	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/02/14
Test Engineer: K. Huynh
Configuration: X-pos. EUT with AC charger
Mode: GPRS 1900

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

Band

GSM1900

GPRS

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850MHz									
3.700	-14.7	V	3.0	35.4	1.0	-49.1	-13.0	-36.1	
5.550	-10.8	V	3.0	34.7	1.0	-44.5	-13.0	-31.5	
7.400	-12.7	V	3.0	34.9	1.0	-46.6	-13.0	-33.6	
3.700	-16.3	H	3.0	35.4	1.0	-50.7	-13.0	-37.7	
5.550	-15.4	H	3.0	34.7	1.0	-49.1	-13.0	-36.1	
7.400	-13.2	H	3.0	34.9	1.0	-47.1	-13.0	-34.1	
Mid Ch, 1880.0MHz									
3.760	-13.9	V	3.0	35.3	1.0	-48.2	-13.0	-35.2	
5.640	-14.0	V	3.0	34.7	1.0	-47.8	-13.0	-34.8	
7.520	-12.1	V	3.0	34.9	1.0	-46.0	-13.0	-33.0	
3.760	-15.7	H	3.0	35.3	1.0	-50.1	-13.0	-37.1	
5.640	-13.9	H	3.0	34.7	1.0	-47.7	-13.0	-34.7	
7.520	-12.1	H	3.0	34.9	1.0	-46.0	-13.0	-33.0	
High Ch, 1909.8 MHz									
3.820	-12.6	V	3.0	35.3	1.0	-46.9	-13.0	-33.9	
5.729	-13.0	V	3.0	34.7	1.0	-46.8	-13.0	-33.8	
7.639	-11.4	V	3.0	35.0	1.0	-45.4	-13.0	-32.4	
3.820	-15.8	H	3.0	35.3	1.0	-50.1	-13.0	-37.1	
5.729	-14.5	H	3.0	34.7	1.0	-48.3	-13.0	-35.3	
7.639	-11.5	H	3.0	35.0	1.0	-45.5	-13.0	-32.5	

Rev. 03.03.09

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: B. Liu
Configuration: X-pos EUT w/ AC Adaptor
Mode: EGPRS 850

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

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 824.2MHz									
GSM850 EGPRS	1.648	-15.8	V	3.0	37.4	1.0	-52.2	-13.0	-39.2	
	2.473	-9.2	V	3.0	36.4	1.0	-44.6	-13.0	-31.6	
	3.297	-7.4	V	3.0	35.8	1.0	-42.2	-13.0	-29.2	
	1.648	-16.5	H	3.0	37.4	1.0	-52.9	-13.0	-39.9	
	2.473	-12.7	H	3.0	36.4	1.0	-48.1	-13.0	-35.1	
	3.297	-7.2	H	3.0	35.8	1.0	-42.0	-13.0	-29.0	
	Mid Ch, 836.6MHz									
	1.673	-15.8	V	3.0	37.3	1.0	-52.2	-13.0	-39.2	
	2.510	-10.0	V	3.0	36.4	1.0	-45.3	-13.0	-32.3	
	3.346	-6.6	V	3.0	35.8	1.0	-41.4	-13.0	-28.4	
	1.673	-16.1	H	3.0	37.3	1.0	-52.4	-13.0	-39.4	
	2.510	-11.2	H	3.0	36.4	1.0	-46.6	-13.0	-33.6	
	3.346	-6.9	H	3.0	35.8	1.0	-41.6	-13.0	-28.6	
	High Ch, 848.8MHz									
	1.698	-15.8	V	3.0	37.3	1.0	-52.1	-13.0	-39.1	
	2.547	-8.9	V	3.0	36.3	1.0	-44.3	-13.0	-31.3	
	3.395	-6.9	V	3.0	35.7	1.0	-41.6	-13.0	-28.6	
	1.698	-16.0	H	3.0	37.3	1.0	-52.3	-13.0	-39.3	
	2.547	-11.1	H	3.0	36.3	1.0	-46.4	-13.0	-33.4	
	3.395	-7.3	H	3.0	35.7	1.0	-42.0	-13.0	-29.0	

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 #: 14U1929
Date: 07/03/14
Test Engineer: K. Ros
Configuration: X-pos. EUT w/ AC Adaptor
Mode: GPRS 850

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

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 824.2MHz									
GSM850 GPRS	1.648	-15.9	V	3.0	37.4	1.0	-52.3	-13.0	-39.3	
	2.473	-9.5	V	3.0	36.4	1.0	-44.9	-13.0	-31.9	
	3.297	-6.4	V	3.0	35.8	1.0	-41.2	-13.0	-28.2	
	1.648	-16.2	H	3.0	37.4	1.0	-52.6	-13.0	-39.6	
	2.473	-11.5	H	3.0	36.4	1.0	-46.9	-13.0	-33.9	
	3.297	-7.0	H	3.0	35.8	1.0	-41.8	-13.0	-28.8	
	Mid Ch, 836.6MHz									
	1.673	-15.3	V	3.0	37.3	1.0	-51.6	-13.0	-38.6	
	2.510	-9.9	V	3.0	36.4	1.0	-45.3	-13.0	-32.3	
	3.346	-7.2	V	3.0	35.8	1.0	-41.9	-13.0	-28.9	
	1.673	-16.3	H	3.0	37.3	1.0	-52.6	-13.0	-39.6	
	2.510	-11.4	H	3.0	36.4	1.0	-46.8	-13.0	-33.8	
	3.346	-6.7	H	3.0	35.8	1.0	-41.4	-13.0	-28.4	
	High Ch, 848.8MHz									
	1.698	-15.1	V	3.0	37.3	1.0	-51.4	-13.0	-38.4	
	2.547	-9.2	V	3.0	36.3	1.0	-44.5	-13.0	-31.5	
	3.395	-7.5	V	3.0	35.7	1.0	-42.2	-13.0	-29.2	
	1.698	-15.7	H	3.0	37.3	1.0	-52.0	-13.0	-39.0	
	2.547	-11.1	H	3.0	36.3	1.0	-46.4	-13.0	-33.4	
	3.395	-6.4	H	3.0	35.7	1.0	-41.1	-13.0	-28.1	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/07/14
Test Engineer: B. Liu
Configuration: X Position, EUT w/ AC Adaptor and HS
Mode: LTE17 10M 16QAM 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
Low Ch,709MHz										
LTE17	1.418	-29.9	V	3.0	37.8	1.0	-66.7	-13.0	-53.7	
	2.127	-22.8	V	3.0	36.7	1.0	-58.5	-13.0	-45.5	
10MHz	2.836	-21.5	V	3.0	36.2	1.0	-56.7	-13.0	-43.7	
	1.418	-28.7	H	3.0	37.8	1.0	-65.5	-13.0	-52.5	
16QAM	2.127	-24.4	H	3.0	36.7	1.0	-60.1	-13.0	-47.1	
	2.836	-23.4	H	3.0	36.2	1.0	-58.6	-13.0	-45.6	
Mid Ch,710MHz										
	1.420	-30.1	V	3.0	37.8	1.0	-66.9	-13.0	-53.9	
	2.130	-23.2	V	3.0	36.7	1.0	-58.9	-13.0	-45.9	
	2.840	-22.1	V	3.0	36.2	1.0	-57.2	-13.0	-44.2	
	1.420	-28.2	H	3.0	37.8	1.0	-65.0	-13.0	-52.0	
	2.130	-23.9	H	3.0	36.7	1.0	-59.6	-13.0	-46.6	
	2.840	-23.1	H	3.0	36.2	1.0	-58.2	-13.0	-45.2	
High Ch, 711MHz										
	1.422	-29.7	V	3.0	37.8	1.0	-66.5	-13.0	-53.5	
	2.133	-22.5	V	3.0	36.7	1.0	-58.2	-13.0	-45.2	
	2.844	-21.3	V	3.0	36.2	1.0	-56.4	-13.0	-43.4	
	1.422	-28.3	H	3.0	37.8	1.0	-65.1	-13.0	-52.1	
	2.133	-23.4	H	3.0	36.7	1.0	-59.1	-13.0	-46.1	
	2.844	-21.9	H	3.0	36.2	1.0	-57.1	-13.0	-44.1	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/07/14
Test Engineer: B. Liu
Configuration: X Position, EUT w/ AC Adaptor and HS
Mode: LTE17 10M 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
Low Ch,709MHz										
LTE17	1.418	-29.7	V	3.0	37.8	1.0	-66.4	-13.0	-53.4	
	2.127	-22.7	V	3.0	36.7	1.0	-58.4	-13.0	-45.4	
10MHz	2.836	-21.7	V	3.0	36.2	1.0	-56.9	-13.0	-43.9	
	1.418	-28.8	H	3.0	37.8	1.0	-65.6	-13.0	-52.6	
QPSK	2.127	-24.0	H	3.0	36.7	1.0	-59.7	-13.0	-46.7	
	2.836	-23.2	H	3.0	36.2	1.0	-58.3	-13.0	-45.3	
Mid Ch,710MHz										
	1.420	-29.7	V	3.0	37.8	1.0	-66.5	-13.0	-53.5	
	2.130	-23.2	V	3.0	36.7	1.0	-58.9	-13.0	-45.9	
	2.840	-20.8	V	3.0	36.2	1.0	-56.0	-13.0	-43.0	
	1.420	-28.2	H	3.0	37.8	1.0	-65.0	-13.0	-52.0	
	2.130	-23.9	H	3.0	36.7	1.0	-59.6	-13.0	-46.6	
	2.840	-23.1	H	3.0	36.2	1.0	-58.3	-13.0	-45.3	
High Ch, 711MHz										
	1.422	-29.4	V	3.0	37.8	1.0	-66.2	-13.0	-53.2	
	2.133	-22.8	V	3.0	36.7	1.0	-58.5	-13.0	-45.5	
	2.844	-21.2	V	3.0	36.2	1.0	-56.4	-13.0	-43.4	
	1.422	-28.8	H	3.0	37.8	1.0	-65.6	-13.0	-52.6	
	2.133	-23.9	H	3.0	36.7	1.0	-59.6	-13.0	-46.6	
	2.844	-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 #: 14U17929
Date: 07/07/14
Test Engineer: B. Liu
Configuration: X Position, EUT w/ AC Adaptor and HS
Mode: LTE17 5M 16QAM 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
	Low Ch,706.5MHz									
LTE17	1.413	-29.7	V	3.0	37.8	1.0	-66.5	-13.0	-53.5	
	2.120	-23.0	V	3.0	36.7	1.0	-58.7	-13.0	-45.7	
5MHz	2.283	-23.2	V	3.0	36.6	1.0	-58.8	-13.0	-45.8	
	1.413	-28.1	H	3.0	37.8	1.0	-64.9	-13.0	-51.9	
16QAM	2.120	-23.7	H	3.0	36.7	1.0	-59.4	-13.0	-46.4	
	2.283	-24.4	H	3.0	36.6	1.0	-60.0	-13.0	-47.0	
	Mid Ch,710MHz									
	1.420	-29.0	V	3.0	37.8	1.0	-65.7	-13.0	-52.7	
	2.130	-22.7	V	3.0	36.7	1.0	-58.4	-13.0	-45.4	
	2.840	-21.8	V	3.0	36.2	1.0	-57.0	-13.0	-44.0	
	1.420	-28.5	H	3.0	37.8	1.0	-65.2	-13.0	-52.2	
	2.130	-24.3	H	3.0	36.7	1.0	-60.0	-13.0	-47.0	
	2.840	-22.5	H	3.0	36.2	1.0	-57.7	-13.0	-44.7	
	High Ch, 713.5MHz									
	1.427	-30.0	V	3.0	37.7	1.0	-66.7	-13.0	-53.7	
	2.141	-22.8	V	3.0	36.7	1.0	-58.4	-13.0	-45.4	
	2.854	-21.3	V	3.0	36.2	1.0	-56.4	-13.0	-43.4	
	1.427	-27.9	H	3.0	37.7	1.0	-64.7	-13.0	-51.7	
	2.141	-24.2	H	3.0	36.7	1.0	-59.9	-13.0	-46.9	
	2.854	-22.1	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

Company: Sony
Project #: 14U17929
Date: 07/07/14
Test Engineer: B. Liu
Configuration: X Position, EUT w/ AC Adaptor and HS
Mode: LTE17 5M 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
Low Ch,706.5MHz										
LTE17	1.413	-30.3	V	3.0	37.8	1.0	-67.1	-13.0	-54.1	
	2.120	-22.9	V	3.0	36.7	1.0	-58.6	-13.0	-45.6	
5MHz	2.283	-23.4	V	3.0	36.6	1.0	-59.0	-13.0	-46.0	
	1.413	-28.1	H	3.0	37.8	1.0	-64.9	-13.0	-51.9	
QPSK	2.120	-23.9	H	3.0	36.7	1.0	-59.6	-13.0	-46.6	
	2.283	-25.2	H	3.0	36.6	1.0	-60.8	-13.0	-47.8	
Mid Ch,710MHz										
	1.420	-29.9	V	3.0	37.8	1.0	-66.7	-13.0	-53.7	
	2.130	-22.1	V	3.0	36.7	1.0	-57.8	-13.0	-44.8	
	2.840	-21.5	V	3.0	36.2	1.0	-56.7	-13.0	-43.7	
	1.420	-28.4	H	3.0	37.8	1.0	-65.2	-13.0	-52.2	
	2.130	-23.2	H	3.0	36.7	1.0	-58.9	-13.0	-45.9	
	2.840	-21.8	H	3.0	36.2	1.0	-57.0	-13.0	-44.0	
High Ch, 713.5MHz										
	1.427	-29.1	V	3.0	37.7	1.0	-65.9	-13.0	-52.9	
	2.141	-22.7	V	3.0	36.7	1.0	-58.4	-13.0	-45.4	
	2.854	-21.9	V	3.0	36.2	1.0	-57.1	-13.0	-44.1	
	1.427	-28.4	H	3.0	37.7	1.0	-65.1	-13.0	-52.1	
	2.141	-24.0	H	3.0	36.7	1.0	-59.7	-13.0	-46.7	
	2.854	-21.9	H	3.0	36.2	1.0	-57.1	-13.0	-44.1	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/07/14
Test Engineer: B. Liu
Configuration: X Position, EUT w/ AC Adaptor and HS
Mode: LTE13 10M 16QAM HARM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T145 8449B	Filter 1	Part 27

Band
LTE13
10MHz
16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Mid Ch, (782 MHz)									
1.564	-26.2	V	3.0	30.7	1.0	-55.8	-13.0	-42.8	
2.346	-24.6	V	3.0	28.9	1.0	-52.5	-13.0	-39.5	
3.128	-28.0	V	3.0	26.8	1.0	-53.9	-13.0	-40.9	
1.564	-27.8	H	3.0	30.7	1.0	-57.5	-13.0	-44.5	
2.346	-27.0	H	3.0	28.9	1.0	-54.8	-13.0	-41.8	
3.128	-28.2	H	3.0	26.8	1.0	-54.0	-13.0	-41.0	

Rev. 03.03.09

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/07/14
Test Engineer: B. Liu
Configuration: X Position, EUT w/ AC Adaptor and HS
Mode: LTE13 10M QPSK HARM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T145 8449B	Filter 1	Part 27

Band: LTE13 10MHz QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Mid Ch, (782 MHz)									
1.564	-25.6	V	3.0	30.7	1.0	-55.3	-13.0	-42.3	
2.346	-25.7	V	3.0	28.9	1.0	-53.6	-13.0	-40.6	
3.128	-28.2	V	3.0	26.8	1.0	-54.1	-13.0	-41.1	
1.564	-28.2	H	3.0	30.7	1.0	-57.9	-13.0	-44.9	
2.346	-26.8	H	3.0	28.9	1.0	-54.7	-13.0	-41.7	
3.128	-28.3	H	3.0	26.8	1.0	-54.1	-13.0	-41.1	

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Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: O. Stoelting
Configuration: X Position, EUT and AC Adapter
Mode: TX, LTE band 13, 5MHz BW, 16QAM

Chamber	Pre-amplifer	Filter	Limit
5m Chamber A	T145 8449B	Filter 1	Part 27

Band: LTE13, 5MHz, 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (779.5 MHz)									
1.559	-1.8	V	3.0	30.7	1.0	-31.5	-13.0	-18.5	
2.339	-23.0	V	3.0	28.9	1.0	-50.9	-13.0	-37.9	
3.118	-28.4	V	3.0	26.9	1.0	-54.2	-13.0	-41.2	
1.559	-4.1	H	3.0	30.7	1.0	-33.8	-13.0	-20.8	
2.339	-26.6	H	3.0	28.9	1.0	-54.5	-13.0	-41.5	
3.118	-28.8	H	3.0	26.9	1.0	-54.6	-13.0	-41.6	
Mid Ch, (782 MHz)									
1.564	-1.8	V	3.0	30.7	1.0	-31.5	-13.0	-18.5	
2.346	-22.2	V	3.0	28.9	1.0	-50.1	-13.0	-37.1	
3.128	-28.1	V	3.0	26.8	1.0	-53.9	-13.0	-40.9	
1.564	-2.7	H	3.0	30.7	1.0	-32.3	-13.0	-19.3	
2.346	-25.9	H	3.0	28.9	1.0	-53.7	-13.0	-40.7	
3.128	-28.9	H	3.0	26.8	1.0	-54.8	-13.0	-41.8	
High Ch, (784.5 MHz)									
1.569	-0.7	V	3.0	30.7	1.0	-30.4	-13.0	-17.4	
2.354	-18.4	V	3.0	28.8	1.0	-46.2	-13.0	-33.2	
3.138	-27.2	V	3.0	26.8	1.0	-53.0	-13.0	-40.0	
1.569	-3.1	H	3.0	30.7	1.0	-32.8	-13.0	-19.8	
2.354	-21.2	H	3.0	28.8	1.0	-49.1	-13.0	-36.1	
3.138	-28.7	H	3.0	26.8	1.0	-54.5	-13.0	-41.5	

Rev. 03.03.09

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: O. Stoelting
Configuration: X Position, EUT and AC Adapter
Mode: TX, LTE band 13, 5MHz BW, QPSK

Chamber	Pre-amplifer	Filter	Limit
5m Chamber A	T145 8449B	Filter 1	Part 27

Band: LTE13, 5MHz, QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (779.5 MHz)									
1.559	-2.7	V	3.0	30.7	1.0	-32.4	-13.0	-19.4	
2.339	-20.9	V	3.0	28.9	1.0	-48.8	-13.0	-35.8	
3.118	-28.6	V	3.0	26.9	1.0	-54.5	-13.0	-41.5	
1.559	-5.0	H	3.0	30.7	1.0	-34.7	-13.0	-21.7	
2.339	-27.1	H	3.0	28.9	1.0	-54.9	-13.0	-41.9	
3.118	-28.2	H	3.0	26.9	1.0	-54.0	-13.0	-41.0	
Mid Ch, (782 MHz)									
1.564	-1.8	V	3.0	30.7	1.0	-31.5	-13.0	-18.5	
2.346	-21.7	V	3.0	28.9	1.0	-49.6	-13.0	-36.6	
3.128	-28.2	V	3.0	26.8	1.0	-54.1	-13.0	-41.1	
1.564	-2.7	H	3.0	30.7	1.0	-32.4	-13.0	-19.4	
2.346	-24.9	H	3.0	28.9	1.0	-52.8	-13.0	-39.8	
3.128	-28.3	H	3.0	26.8	1.0	-54.1	-13.0	-41.1	
High Ch, (784.5 MHz)									
1.569	-0.6	V	3.0	30.7	1.0	-30.3	-13.0	-17.3	
2.354	-18.2	V	3.0	28.8	1.0	-46.0	-13.0	-33.0	
3.138	-26.6	V	3.0	26.8	1.0	-52.4	-13.0	-39.4	
1.569	-3.4	H	3.0	30.7	1.0	-33.1	-13.0	-20.1	
2.354	-21.4	H	3.0	28.8	1.0	-49.2	-13.0	-36.2	
3.138	-28.4	H	3.0	26.8	1.0	-54.2	-13.0	-41.2	

Rev. 03.03.09

UL Verification Services
Above 1GHz High Frequency Substitution Measurement

Company:	Sony
Project #:	14U17929
Date:	07/03/14
Test Engineer:	T. Oeur
Configuration:	EUT with AC charger & Headphones
Mode:	TX, LTE BAND 7, 20MHz BW, 16QAM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	FCC Part 27

Band: LTE7, 20MHz, 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (2510MHz)									
5.020	-19.0	V	3.0	34.8	1.0	-52.7	-25.0	-27.7	
7.530	-14.6	V	3.0	34.9	1.0	-48.6	-25.0	-23.6	
10.040	-13.4	V	3.0	35.3	1.0	-47.7	-25.0	-22.7	
5.020	-18.6	H	3.0	34.8	1.0	-52.4	-25.0	-27.4	
7.530	-14.0	H	3.0	34.9	1.0	-48.0	-25.0	-23.0	
10.040	-12.1	H	3.0	35.3	1.0	-46.4	-25.0	-21.4	
Mid Channel (2535MHz)									
5.070	-19.6	V	3.0	34.7	1.0	-53.3	-25.0	-28.3	
7.605	-14.8	V	3.0	34.9	1.0	-48.8	-25.0	-23.8	
10.140	-13.2	V	3.0	35.3	1.0	-47.5	-25.0	-22.5	
5.070	-19.3	H	3.0	34.7	1.0	-53.1	-25.0	-28.1	
7.605	-13.9	H	3.0	34.9	1.0	-47.8	-25.0	-22.8	
10.140	-12.8	H	3.0	35.3	1.0	-47.1	-25.0	-22.1	
High Channel (2560MHz)									
5.120	-19.8	V	3.0	34.7	1.0	-53.5	-25.0	-28.5	
7.680	-14.3	V	3.0	35.0	1.0	-48.3	-25.0	-23.3	
10.240	-12.4	V	3.0	35.2	1.0	-46.6	-25.0	-21.6	
5.120	-19.0	H	3.0	34.7	1.0	-52.7	-25.0	-27.7	
7.680	-13.3	H	3.0	35.0	1.0	-47.2	-25.0	-22.2	
10.240	-12.6	H	3.0	35.2	1.0	-46.9	-25.0	-21.9	

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

Band

LTE7

20MHz

QPSK

UL Verification Services
Above 1GHz High Frequency Substitution Measurement

Company:	Sony
Project #:	14U17929
Date:	07/03/14
Test Engineer:	T. Oeur
Configuration:	EUT with AC charger & Headphones
Mode:	TX, LTE BAND 7, 20MHz BW, QPSK

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	FCC Part 27

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (2510MHz)									
5.020	-19.0	V	3.0	34.8	1.0	-52.8	-25.0	-27.8	
7.530	-15.1	V	3.0	34.9	1.0	-49.0	-25.0	-24.0	
10.040	-13.3	V	3.0	35.3	1.0	-47.7	-25.0	-22.7	
5.020	-18.6	H	3.0	34.8	1.0	-52.3	-25.0	-27.3	
7.530	-13.6	H	3.0	34.9	1.0	-47.6	-25.0	-22.6	
10.040	-11.6	H	3.0	35.3	1.0	-46.0	-25.0	-21.0	
Mid Channel (2535MHz)									
5.070	-19.5	V	3.0	34.7	1.0	-53.2	-25.0	-28.2	
7.605	-15.4	V	3.0	34.9	1.0	-49.3	-25.0	-24.3	
10.140	-13.4	V	3.0	35.3	1.0	-47.7	-25.0	-22.7	
5.070	-18.6	H	3.0	34.7	1.0	-52.3	-25.0	-27.3	
7.605	-14.1	H	3.0	34.9	1.0	-48.0	-25.0	-23.0	
10.140	-11.8	H	3.0	35.3	1.0	-46.1	-25.0	-21.1	
High Channel (2560MHz)									
5.120	-19.4	V	3.0	34.7	1.0	-53.1	-25.0	-28.1	
7.680	-14.1	V	3.0	35.0	1.0	-48.1	-25.0	-23.1	
10.240	-12.5	V	3.0	35.2	1.0	-46.8	-25.0	-21.8	
5.120	-18.1	H	3.0	34.7	1.0	-51.8	-25.0	-26.8	
7.680	-13.3	H	3.0	35.0	1.0	-47.3	-25.0	-22.3	
10.240	-11.9	H	3.0	35.2	1.0	-46.2	-25.0	-21.2	

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 #:	14U17929
Date:	07/03/14
Test Engineer:	T. Oeur
Configuration:	EUT with AC charger & Headphones
Mode:	TX, LTE BAND 7, 15MHz BW,16QAM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	FCC Part 27

Band: LTE7, 15MHz, 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (2507.5MHz)									
5.015	-18.9	V	3.0	34.8	1.0	-52.7	-25.0	-27.7	
7.523	-14.8	V	3.0	34.9	1.0	-48.7	-25.0	-23.7	
10.030	-13.6	V	3.0	35.3	1.0	-47.9	-25.0	-22.9	
5.015	-18.6	H	3.0	34.8	1.0	-52.4	-25.0	-27.4	
7.523	-13.5	H	3.0	34.9	1.0	-47.4	-25.0	-22.4	
10.030	-11.4	H	3.0	35.3	1.0	-45.8	-25.0	-20.8	
Mid Channel (2535MHz)									
5.070	-19.7	V	3.0	34.7	1.0	-53.4	-25.0	-28.4	
7.605	-14.8	V	3.0	34.9	1.0	-48.7	-25.0	-23.7	
10.140	-13.7	V	3.0	35.3	1.0	-48.0	-25.0	-23.0	
5.070	-18.6	H	3.0	34.7	1.0	-52.3	-25.0	-27.3	
7.605	-13.7	H	3.0	34.9	1.0	-47.7	-25.0	-22.7	
10.140	-12.4	H	3.0	35.3	1.0	-46.6	-25.0	-21.6	
High Channel (2562.5MHz)									
5.125	-18.9	V	3.0	34.7	1.0	-52.6	-25.0	-27.6	
7.688	-13.7	V	3.0	35.0	1.0	-47.6	-25.0	-22.6	
10.250	-12.6	V	3.0	35.2	1.0	-46.9	-25.0	-21.9	
5.125	-18.5	H	3.0	34.7	1.0	-52.2	-25.0	-27.2	
7.688	-13.2	H	3.0	35.0	1.0	-47.2	-25.0	-22.2	
10.250	-12.5	H	3.0	35.2	1.0	-46.7	-25.0	-21.7	

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

Band

LTE7

15MHz

QPSK

UL Verification Services
Above 1GHz High Frequency Substitution Measurement

Company:	Sony
Project #:	14U17929
Date:	07/03/14
Test Engineer:	T. Oeur
Configuration:	EUT with AC charger & Headphones
Mode:	TX, LTE BAND 7, 15MHz BW,QPSK

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T144 8449B	Filter 1	FCC Part 27

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (2507.5MHz)									
5.015	-18.4	V	3.0	36.3	1.0	-53.7	-25.0	-28.7	
7.523	-14.7	V	3.0	36.6	1.0	-50.3	-25.0	-25.3	
10.030	-13.4	V	3.0	37.2	1.0	-49.5	-25.0	-24.5	
5.015	-17.8	H	3.0	36.3	1.0	-53.1	-25.0	-28.1	
7.523	-13.9	H	3.0	36.6	1.0	-49.5	-25.0	-24.5	
10.030	-11.4	H	3.0	37.2	1.0	-47.6	-25.0	-22.6	
Mid Channel (2535MHz)									
5.070	-19.9	V	3.0	36.3	1.0	-55.1	-25.0	-30.1	
7.605	-14.9	V	3.0	36.6	1.0	-50.5	-25.0	-25.5	
10.140	-13.3	V	3.0	37.2	1.0	-49.4	-25.0	-24.4	
5.070	-19.3	H	3.0	36.3	1.0	-54.6	-25.0	-29.6	
7.605	-13.2	H	3.0	36.6	1.0	-48.8	-25.0	-23.8	
10.140	-12.7	H	3.0	37.2	1.0	-48.8	-25.0	-23.8	
High Channel (2562.5MHz)									
5.125	-19.4	V	3.0	36.3	1.0	-54.7	-25.0	-29.7	
7.688	-12.6	V	3.0	36.6	1.0	-48.3	-25.0	-23.3	
10.250	-12.4	V	3.0	37.1	1.0	-48.5	-25.0	-23.5	
5.125	-18.7	H	3.0	36.3	1.0	-54.0	-25.0	-29.0	
7.688	-12.8	H	3.0	36.6	1.0	-48.5	-25.0	-23.5	
10.250	-12.2	H	3.0	37.1	1.0	-48.3	-25.0	-23.3	

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

UL Verification Services
Above 1GHz High Frequency Substitution Measurement

Company:	Sony
Project #:	14U17929
Date:	07/03/14
Test Engineer:	T. Oeur
Configuration:	EUT with AC charger & Headphones
Mode:	TX, LTE BAND 7, 10MHz BW,16QAM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	FCC Part 27

Band: LTE7, 10MHz, 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (2505MHz)									
5.010	-18.8	V	3.0	34.8	1.0	-52.6	-25.0	-27.6	
7.515	-13.8	V	3.0	34.9	1.0	-47.7	-25.0	-22.7	
10.020	-13.3	V	3.0	35.4	1.0	-47.7	-25.0	-22.7	
5.010	-18.5	H	3.0	34.8	1.0	-52.3	-25.0	-27.3	
7.515	-13.4	H	3.0	34.9	1.0	-47.4	-25.0	-22.4	
10.020	-12.6	H	3.0	35.4	1.0	-47.0	-25.0	-22.0	
Mid Channel (2535MHz)									
5.070	-19.4	V	3.0	34.7	1.0	-53.2	-25.0	-28.2	
7.605	-14.2	V	3.0	34.9	1.0	-48.2	-25.0	-23.2	
10.140	-13.1	V	3.0	35.3	1.0	-47.4	-25.0	-22.4	
5.070	-19.2	H	3.0	34.7	1.0	-53.0	-25.0	-28.0	
7.605	-13.9	H	3.0	34.9	1.0	-47.8	-25.0	-22.8	
10.140	-11.5	H	3.0	35.3	1.0	-45.8	-25.0	-20.8	
High Channel (2565MHz)									
5.130	-19.1	V	3.0	34.7	1.0	-52.8	-25.0	-27.8	
7.689	-14.0	V	3.0	35.0	1.0	-48.0	-25.0	-23.0	
10.260	-12.3	V	3.0	35.2	1.0	-46.5	-25.0	-21.5	
5.130	-18.9	H	3.0	34.7	1.0	-52.7	-25.0	-27.7	
7.689	-13.1	H	3.0	35.0	1.0	-47.0	-25.0	-22.0	
10.260	-11.9	H	3.0	35.2	1.0	-46.1	-25.0	-21.1	

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 #:	14U17929
Date:	07/03/14
Test Engineer:	T. Oeur
Configuration:	EUT with AC charger & Headphones
Mode:	TX, LTE BAND 7, 10MHz BW, QPSK

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	FCC Part 27

Band
LTE7
10MHz
QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (2505MHz)									
5.010	-18.0	V	3.0	34.8	1.0	-51.8	-25.0	-26.8	
7.515	-13.9	V	3.0	34.9	1.0	-47.8	-25.0	-22.8	
10.020	-12.9	V	3.0	35.4	1.0	-47.3	-25.0	-22.3	
5.010	-18.3	H	3.0	34.8	1.0	-52.0	-25.0	-27.0	
7.515	-13.4	H	3.0	34.9	1.0	-47.4	-25.0	-22.4	
10.020	-12.8	H	3.0	35.4	1.0	-47.2	-25.0	-22.2	
Mid Channel (2535MHz)									
5.070	-19.3	V	3.0	34.7	1.0	-53.1	-25.0	-28.1	
7.605	-13.9	V	3.0	34.9	1.0	-47.8	-25.0	-22.8	
10.122	-13.2	V	3.0	35.3	1.0	-47.5	-25.0	-22.5	
5.070	-19.2	H	3.0	34.7	1.0	-52.9	-25.0	-27.9	
7.605	-13.8	H	3.0	34.9	1.0	-47.7	-25.0	-22.7	
10.122	-12.7	H	3.0	35.3	1.0	-47.0	-25.0	-22.0	
High Channel (2565MHz)									
5.130	-18.4	V	3.0	34.7	1.0	-52.1	-25.0	-27.1	
7.689	-13.8	V	3.0	35.0	1.0	-47.7	-25.0	-22.7	
10.260	-12.3	V	3.0	35.2	1.0	-46.6	-25.0	-21.6	
5.130	-19.3	H	3.0	34.7	1.0	-53.0	-25.0	-28.0	
7.689	-12.9	H	3.0	35.0	1.0	-46.9	-25.0	-21.9	
10.260	-11.8	H	3.0	35.2	1.0	-46.1	-25.0	-21.1	

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 #:	14U17929
Date:	07/03/14
Test Engineer:	T. Oeur
Configuration:	EUT with AC charger & Headphones
Mode:	TX, LTE BAND 7, 5MHz BW,16QAM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T145 8449B	Filter 1	FCC Part 27

Band: LTE7, 5MHz, 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (2502.5MHz)									
5.005	-19.0	V	3.0	35.3	1.0	-53.3	-25.0	-28.3	
7.508	-15.1	V	3.0	35.7	1.0	-49.8	-25.0	-24.8	
10.010	-13.2	V	3.0	35.5	1.0	-47.7	-25.0	-22.7	
5.005	-18.7	H	3.0	35.3	1.0	-53.0	-25.0	-28.0	
7.508	-13.8	H	3.0	35.7	1.0	-48.5	-25.0	-23.5	
10.010	-12.5	H	3.0	35.5	1.0	-47.0	-25.0	-22.0	
Mid Channel (2535MHz)									
5.070	-19.0	V	3.0	35.3	1.0	-53.4	-25.0	-28.4	
7.605	-15.0	V	3.0	35.7	1.0	-49.7	-25.0	-24.7	
10.140	-12.6	V	3.0	35.4	1.0	-47.0	-25.0	-22.0	
5.007	-19.2	H	3.0	35.3	1.0	-53.5	-25.0	-28.5	
7.605	-13.4	H	3.0	35.7	1.0	-48.1	-25.0	-23.1	
10.140	-12.5	H	3.0	35.4	1.0	-47.0	-25.0	-22.0	
High Channel (2567.5MHz)									
5.135	-18.7	V	3.0	35.3	1.0	-53.0	-25.0	-28.0	
7.703	-13.5	V	3.0	35.7	1.0	-48.2	-25.0	-23.2	
10.270	-12.4	V	3.0	35.3	1.0	-46.7	-25.0	-21.7	
5.135	-17.2	H	3.0	35.3	1.0	-51.6	-25.0	-26.6	
7.703	-12.5	H	3.0	35.7	1.0	-47.2	-25.0	-22.2	
10.270	-11.3	H	3.0	35.3	1.0	-45.6	-25.0	-20.6	

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

UL Verification Services
Above 1GHz High Frequency Substitution Measurement

Company:	Sony
Project #:	14U17929
Date:	07/03/14
Test Engineer:	T. Oeur
Configuration:	EUT with AC charger & Headphones
Mode:	TX, LTE BAND 7, 5MHz BW,QPSK

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T145 8449B	Filter 1	FCC Part 27

Band: LTE7 5MHz QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (2502.5MHz)									
5.005	-18.3	V	3.0	35.3	1.0	-52.6	-25.0	-27.6	
7.508	-14.7	V	3.0	35.7	1.0	-49.4	-25.0	-24.4	
10.010	-13.0	V	3.0	35.5	1.0	-47.5	-25.0	-22.5	
5.005	-18.7	H	3.0	35.3	1.0	-53.0	-25.0	-28.0	
7.508	-14.0	H	3.0	35.7	1.0	-48.7	-25.0	-23.7	
10.010	-12.9	H	3.0	35.5	1.0	-47.4	-25.0	-22.4	
Mid Channel (2535MHz)									
5.007	-16.8	V	3.0	35.3	1.0	-51.1	-25.0	-26.1	
7.605	-14.9	V	3.0	35.7	1.0	-49.5	-25.0	-24.5	
10.140	-13.3	V	3.0	35.4	1.0	-47.7	-25.0	-22.7	
5.007	-19.0	H	3.0	35.3	1.0	-53.3	-25.0	-28.3	
7.605	-13.6	H	3.0	35.7	1.0	-48.3	-25.0	-23.3	
10.140	-11.9	H	3.0	35.4	1.0	-46.3	-25.0	-21.3	
High Channel (2567.5MHz)									
5.135	-18.6	V	3.0	35.3	1.0	-52.9	-25.0	-27.9	
7.703	-13.9	V	3.0	35.7	1.0	-48.6	-25.0	-23.6	
10.270	-12.4	V	3.0	35.3	1.0	-46.7	-25.0	-21.7	
5.135	-17.7	H	3.0	35.3	1.0	-52.1	-25.0	-27.1	
7.703	-12.5	H	3.0	35.7	1.0	-47.2	-25.0	-22.2	
10.270	-12.4	H	3.0	35.3	1.0	-46.7	-25.0	-21.7	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: B.Liu
Configuration: X-pos EUT w/ AC Adaptor
Mode: LTE5 10M 16QAM HARM

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

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE5 10MHz 16QAM	Low Ch, 829MHz									
	1.658	-15.8	V	3.0	37.4	1.0	-52.2	-13.0	-39.2	
	2.487	-10.0	V	3.0	36.4	1.0	-45.4	-13.0	-32.4	
	3.316	-6.5	V	3.0	35.8	1.0	-41.3	-13.0	-28.3	
	1.658	-16.1	H	3.0	37.4	1.0	-52.5	-13.0	-39.5	
	2.487	-11.7	H	3.0	36.4	1.0	-47.1	-13.0	-34.1	
	3.316	-7.0	H	3.0	35.8	1.0	-41.8	-13.0	-28.8	
	Mid Ch, 836.5MHz									
	1.673	89.7	V	3.0	37.3	1.0	53.4	-13.0	66.4	
	2.510	-11.1	V	3.0	36.4	1.0	-46.5	-13.0	-33.5	
	3.346	-6.6	V	3.0	35.8	1.0	-41.3	-13.0	-28.3	
	1.673	-15.3	H	3.0	37.3	1.0	-51.6	-13.0	-38.6	
	2.510	-11.8	H	3.0	36.4	1.0	-47.2	-13.0	-34.2	
	3.346	-7.1	H	3.0	35.8	1.0	-41.8	-13.0	-28.8	
	High Ch, 844MHz									
	1.688	-15.0	V	3.0	37.3	1.0	-51.4	-13.0	-38.4	
	2.532	-9.7	V	3.0	36.3	1.0	-45.0	-13.0	-32.0	
	3.376	-6.6	V	3.0	35.7	1.0	-41.3	-13.0	-28.3	
	1.688	-15.1	H	3.0	37.3	1.0	-51.4	-13.0	-38.4	
	2.532	-11.5	H	3.0	36.3	1.0	-46.8	-13.0	-33.8	
	3.376	-6.4	H	3.0	35.7	1.0	-41.1	-13.0	-28.1	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: B.Liu
Configuration: X-pos EUT w/ AC Adaptor
Mode: LTE5 10M QPSK HARM

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

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE5 10MHz QPSK	Low Ch, 829MHz									
	1.658	-16.5	V	3.0	37.4	1.0	-52.9	-13.0	-39.9	
	2.487	-9.8	V	3.0	36.4	1.0	-45.2	-13.0	-32.2	
	3.316	-7.0	V	3.0	35.8	1.0	-41.8	-13.0	-28.8	
	1.658	-15.1	H	3.0	37.4	1.0	-51.5	-13.0	-38.5	
	2.487	-11.8	H	3.0	36.4	1.0	-47.2	-13.0	-34.2	
	3.316	-7.2	H	3.0	35.8	1.0	-42.0	-13.0	-29.0	
	Mid Ch, 836.5MHz									
	1.673	-15.0	V	3.0	37.3	1.0	-51.4	-13.0	-38.4	
	2.510	-9.1	V	3.0	36.4	1.0	-44.4	-13.0	-31.4	
	3.346	-6.7	V	3.0	35.8	1.0	-41.4	-13.0	-28.4	
	1.673	-15.4	H	3.0	37.3	1.0	-51.8	-13.0	-38.8	
	2.510	-11.9	H	3.0	36.4	1.0	-47.3	-13.0	-34.3	
	3.346	-6.0	H	3.0	35.8	1.0	-40.8	-13.0	-27.8	
	High Ch, 844MHz									
	1.688	-15.5	V	3.0	37.3	1.0	-51.8	-13.0	-38.8	
	2.532	-9.3	V	3.0	36.3	1.0	-44.7	-13.0	-31.7	
	3.376	-6.3	V	3.0	35.7	1.0	-41.1	-13.0	-28.1	
	1.688	-15.5	H	3.0	37.3	1.0	-51.9	-13.0	-38.9	
	2.532	-11.5	H	3.0	36.3	1.0	-46.9	-13.0	-33.9	
	3.376	-6.9	H	3.0	35.7	1.0	-41.6	-13.0	-28.6	

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 #: 14U17929
Date: 07/03/14
Test Engineer: K. Ros
Configuration: X-pos EUT w/ AC Adaptor
Mode: LTE5 5M 16QAM HARM

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

Band: LTE5 5MHz 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.5MHz									
1.653	-16.7	V	3.0	37.4	1.0	-53.0	-13.0	-40.0	
2.480	-10.1	V	3.0	36.4	1.0	-45.4	-13.0	-32.4	
3.306	-6.7	V	3.0	35.8	1.0	-41.5	-13.0	-28.5	
1.653	-15.3	H	3.0	37.4	1.0	-51.6	-13.0	-38.6	
2.480	-11.6	H	3.0	36.4	1.0	-47.0	-13.0	-34.0	
3.306	-6.6	H	3.0	35.8	1.0	-41.4	-13.0	-28.4	
Mid Ch, 836.5MHz									
1.673	-16.0	V	3.0	37.3	1.0	-52.4	-13.0	-39.4	
2.510	-9.9	V	3.0	36.4	1.0	-45.3	-13.0	-32.3	
3.346	-6.6	V	3.0	35.8	1.0	-41.3	-13.0	-28.3	
1.673	-15.6	H	3.0	37.3	1.0	-51.9	-13.0	-38.9	
2.510	-11.4	H	3.0	36.4	1.0	-46.7	-13.0	-33.7	
3.346	-6.6	H	3.0	35.8	1.0	-41.4	-13.0	-28.4	
High Ch, 846.5MHz									
1.693	-15.4	V	3.0	37.3	1.0	-51.7	-13.0	-38.7	
2.539	-8.2	V	3.0	36.3	1.0	-43.5	-13.0	-30.5	
3.386	-6.2	V	3.0	35.7	1.0	-40.9	-13.0	-27.9	
1.693	-14.9	H	3.0	37.3	1.0	-51.2	-13.0	-38.2	
2.539	-11.4	H	3.0	36.3	1.0	-46.7	-13.0	-33.7	
3.386	-6.6	H	3.0	35.7	1.0	-41.3	-13.0	-28.3	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: K. Ros
Configuration: X-pos EUT w/ AC Adaptor
Mode: LTE5 5M QPSK HARM

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

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.5MHz										
LTE5	1.653	-15.9	V	3.0	37.4	1.0	-52.3	-13.0	-39.3	
	2.480	-9.6	V	3.0	36.4	1.0	-45.0	-13.0	-32.0	
5MHz	3.306	-6.8	V	3.0	35.8	1.0	-41.6	-13.0	-28.6	
	1.653	-15.2	H	3.0	37.4	1.0	-51.6	-13.0	-38.6	
QPSK	2.480	-10.7	H	3.0	36.4	1.0	-46.0	-13.0	-33.0	
	3.306	-6.8	H	3.0	35.8	1.0	-41.6	-13.0	-28.6	
Mid Ch, 836.5MHz										
	1.673	-15.1	V	3.0	37.3	1.0	-51.4	-13.0	-38.4	
	2.510	-9.0	V	3.0	36.4	1.0	-44.3	-13.0	-31.3	
	3.346	-6.9	V	3.0	35.8	1.0	-41.6	-13.0	-28.6	
	1.673	-15.4	H	3.0	37.3	1.0	-51.8	-13.0	-38.8	
	2.510	-11.3	H	3.0	36.4	1.0	-46.7	-13.0	-33.7	
	3.346	-6.6	H	3.0	35.8	1.0	-41.3	-13.0	-28.3	
High Ch, 846.5MHz										
	1.693	-15.4	V	3.0	37.3	1.0	-51.7	-13.0	-38.7	
	2.539	-8.9	V	3.0	36.3	1.0	-44.2	-13.0	-31.2	
	3.386	-5.7	V	3.0	35.7	1.0	-40.5	-13.0	-27.5	
	1.693	-15.3	H	3.0	37.3	1.0	-51.6	-13.0	-38.6	
	2.539	-11.4	H	3.0	36.3	1.0	-46.7	-13.0	-33.7	
	3.386	-7.2	H	3.0	35.7	1.0	-41.9	-13.0	-28.9	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: K. Ros
Configuration: X-pos EUT w/ AC Adaptor
Mode: LTE5 3M 16QAM HARM

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

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 825.5MHz									
LTE5	1.651	-16.4	V	3.0	37.4	1.0	-52.8	-13.0	-39.8	
	2.477	-9.9	V	3.0	36.4	1.0	-45.2	-13.0	-32.2	
3MHz	3.302	-6.3	V	3.0	35.8	1.0	-41.1	-13.0	-28.1	
	1.651	-16.2	H	3.0	37.4	1.0	-52.6	-13.0	-39.6	
16QAM	2.477	-11.6	H	3.0	36.4	1.0	-47.0	-13.0	-34.0	
	3.302	-6.9	H	3.0	35.8	1.0	-41.7	-13.0	-28.7	
	Mid Ch, 836.5MHz									
	1.673	-15.9	V	3.0	37.3	1.0	-52.2	-13.0	-39.2	
	2.510	-9.8	V	3.0	36.4	1.0	-45.2	-13.0	-32.2	
	3.346	-6.8	V	3.0	35.8	1.0	-41.6	-13.0	-28.6	
	1.673	-15.4	H	3.0	37.3	1.0	-51.7	-13.0	-38.7	
	2.510	-11.5	H	3.0	36.4	1.0	-46.8	-13.0	-33.8	
	3.346	-5.7	H	3.0	35.8	1.0	-40.4	-13.0	-27.4	
	High Ch, 847.5MHz									
	1.695	-15.9	V	3.0	37.3	1.0	-52.2	-13.0	-39.2	
	2.543	-9.7	V	3.0	36.3	1.0	-45.1	-13.0	-32.1	
	3.390	-6.6	V	3.0	35.7	1.0	-41.3	-13.0	-28.3	
	1.695	-15.0	H	3.0	37.3	1.0	-51.3	-13.0	-38.3	
	2.543	-11.7	H	3.0	36.3	1.0	-47.0	-13.0	-34.0	
	3.390	-6.6	H	3.0	35.7	1.0	-41.3	-13.0	-28.3	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: K. Ros
Configuration: X-pos EUT w/ AC Adaptor
Mode: LTE5 3M QPSK HARM

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

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 825.5MHz										
LTE5	1.651	-16.2	V	3.0	37.4	1.0	-52.6	-13.0	-39.6	
	2.477	-9.9	V	3.0	36.4	1.0	-45.2	-13.0	-32.2	
3MHz	3.302	-7.0	V	3.0	35.8	1.0	-41.8	-13.0	-28.8	
	1.651	-16.0	H	3.0	37.4	1.0	-52.4	-13.0	-39.4	
QPSK	2.477	-11.0	H	3.0	36.4	1.0	-46.4	-13.0	-33.4	
	3.302	-6.6	H	3.0	35.8	1.0	-41.4	-13.0	-28.4	
Mid Ch, 836.5MHz										
	1.673	-16.1	V	3.0	37.3	1.0	-52.4	-13.0	-39.4	
	2.510	-9.7	V	3.0	36.4	1.0	-45.0	-13.0	-32.0	
	3.346	-5.6	V	3.0	35.8	1.0	-40.3	-13.0	-27.3	
	1.673	-15.7	H	3.0	37.3	1.0	-52.0	-13.0	-39.0	
	2.510	-10.8	H	3.0	36.4	1.0	-46.2	-13.0	-33.2	
	3.346	-6.2	H	3.0	35.8	1.0	-41.0	-13.0	-28.0	
High Ch, 847.5MHz										
	1.695	-15.0	V	3.0	37.3	1.0	-51.3	-13.0	-38.3	
	2.543	-8.6	V	3.0	36.3	1.0	-44.0	-13.0	-31.0	
	3.390	-6.6	V	3.0	35.7	1.0	-41.4	-13.0	-28.4	
	1.695	-15.4	H	3.0	37.3	1.0	-51.7	-13.0	-38.7	
	2.543	-11.6	H	3.0	36.3	1.0	-47.0	-13.0	-34.0	
	3.390	-6.4	H	3.0	35.7	1.0	-41.1	-13.0	-28.1	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: K. Ros
Configuration: X-pos EUT w/ AC Adaptor
Mode: LTE5 1.4M 16QAM HARM

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

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 824.7MHz									
LTE5	1.649	-16.0	V	3.0	37.4	1.0	-52.3	-13.0	-39.3	
	2.474	-9.4	V	3.0	36.4	1.0	-44.8	-13.0	-31.8	
1.4MHz	3.299	-6.3	V	3.0	35.8	1.0	-41.1	-13.0	-28.1	
	1.649	-15.6	H	3.0	37.4	1.0	-52.0	-13.0	-39.0	
	2.474	-11.2	H	3.0	36.4	1.0	-46.5	-13.0	-33.5	
16QAM	3.299	-7.0	H	3.0	35.8	1.0	-41.8	-13.0	-28.8	
	Mid Ch, 836.5MHz									
	1.673	-15.3	V	3.0	37.3	1.0	-51.6	-13.0	-38.6	
	2.510	-9.3	V	3.0	36.4	1.0	-44.7	-13.0	-31.7	
	3.346	-6.5	V	3.0	35.8	1.0	-41.3	-13.0	-28.3	
	1.673	-15.6	H	3.0	37.3	1.0	-51.9	-13.0	-38.9	
	2.510	-11.8	H	3.0	36.4	1.0	-47.2	-13.0	-34.2	
	3.346	-6.1	H	3.0	35.8	1.0	-40.9	-13.0	-27.9	
	High Ch, 848.3MHz									
	1.697	-15.2	V	3.0	37.3	1.0	-51.5	-13.0	-38.5	
	2.545	-9.4	V	3.0	36.3	1.0	-44.7	-13.0	-31.7	
	3.393	-6.5	V	3.0	35.7	1.0	-41.2	-13.0	-28.2	
	1.697	-15.5	H	3.0	37.3	1.0	-51.8	-13.0	-38.8	
	2.545	-11.3	H	3.0	36.3	1.0	-46.6	-13.0	-33.6	
	3.393	-6.8	H	3.0	35.7	1.0	-41.5	-13.0	-28.5	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: K. Ros
Configuration: X-pos EUT w/ AC Adaptor
Mode: LTE5 1.4M QPSK HARM

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

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE5	Low Ch, 824.7MHz									
1.4MHz	1.649	-16.4	V	3.0	37.4	1.0	-52.8	-13.0	-39.8	
QPSK	2.474	-9.7	V	3.0	36.4	1.0	-45.1	-13.0	-32.1	
	3.299	-6.7	V	3.0	35.8	1.0	-41.5	-13.0	-28.5	
	1.649	-15.9	H	3.0	37.4	1.0	-52.3	-13.0	-39.3	
	2.474	-11.7	H	3.0	36.4	1.0	-47.1	-13.0	-34.1	
	3.299	-6.7	H	3.0	35.8	1.0	-41.5	-13.0	-28.5	
	Mid Ch, 836.5MHz									
	1.673	-15.9	V	3.0	37.3	1.0	-52.3	-13.0	-39.3	
	2.510	-9.4	V	3.0	36.4	1.0	-44.7	-13.0	-31.7	
	3.346	-6.6	V	3.0	35.8	1.0	-41.3	-13.0	-28.3	
	1.673	-15.5	H	3.0	37.3	1.0	-51.8	-13.0	-38.8	
	2.510	-11.2	H	3.0	36.4	1.0	-46.5	-13.0	-33.5	
	3.346	-6.7	H	3.0	35.8	1.0	-41.5	-13.0	-28.5	
	High Ch, 848.3MHz									
	1.697	-15.0	V	3.0	37.3	1.0	-51.3	-13.0	-38.3	
	2.545	-9.1	V	3.0	36.3	1.0	-44.4	-13.0	-31.4	
	3.393	-6.5	V	3.0	35.7	1.0	-41.2	-13.0	-28.2	
	1.697	-14.6	H	3.0	37.3	1.0	-50.9	-13.0	-37.9	
	2.545	-11.2	H	3.0	36.3	1.0	-46.5	-13.0	-33.5	
	3.393	-6.2	H	3.0	35.7	1.0	-40.9	-13.0	-27.9	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: SONY
Project #: 14U17929
Date: 07/03/14
Test Engineer: R. Alegre
Configuration: EUT, AC charger, and Earphone
Mode: TX, LTE band 4, 20MHz BW, 16QAM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T145 8449B	Filter 1	Part 27

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, (1720 MHz)									
LTE4	3.440	-18.2	V	3.0	26.4	1.0	-43.7	-13.0	-30.7	
	5.160	-16.5	V	3.0	24.3	1.0	-39.8	-13.0	-26.8	
20MHz	6.880	-12.8	V	3.0	23.2	1.0	-35.0	-13.0	-22.0	
	3.440	-20.3	H	3.0	26.4	1.0	-45.7	-13.0	-32.7	
16QAM	5.160	-15.2	H	3.0	24.3	1.0	-38.5	-13.0	-25.5	
	6.880	-13.2	H	3.0	23.2	1.0	-35.4	-13.0	-22.4	
	Mid Ch, (1732.5 MHz)									
	3.465	-20.6	V	3.0	26.4	1.0	-46.0	-13.0	-33.0	
	5.198	-16.1	V	3.0	24.3	1.0	-39.4	-13.0	-26.4	
	6.930	-13.3	V	3.0	23.1	1.0	-35.4	-13.0	-22.4	
	3.465	-20.8	H	3.0	26.4	1.0	-46.3	-13.0	-33.3	
	5.198	-15.2	H	3.0	24.3	1.0	-38.5	-13.0	-25.5	
	6.930	-12.0	H	3.0	23.1	1.0	-34.1	-13.0	-21.1	
	High Ch, (1745 MHz)									
	3.490	-20.2	V	3.0	26.4	1.0	-45.6	-13.0	-32.6	
	5.235	-15.9	V	3.0	24.3	1.0	-39.2	-13.0	-26.2	
	6.980	-14.2	V	3.0	23.1	1.0	-36.3	-13.0	-23.3	
	3.490	-20.7	H	3.0	26.4	1.0	-46.1	-13.0	-33.1	
	5.235	-15.7	H	3.0	24.3	1.0	-39.0	-13.0	-26.0	
	6.980	-12.6	H	3.0	23.1	1.0	-34.7	-13.0	-21.7	

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Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: SONY
Project #: 14U17929
Date: 07/03/14
Test Engineer: R. Alegre
Configuration: EUT, AC charger, and Earphone
Mode: TX, LTE band 4, 20MHz BW, QPSK

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T145 8449B	Filter 1	Part 27

Band: LTE4, 20MHz, QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (1720 MHz)									
3.440	-17.8	V	3.0	26.4	1.0	-43.2	-13.0	-30.2	
5.160	-17.3	V	3.0	24.3	1.0	-40.7	-13.0	-27.7	
6.880	-12.6	V	3.0	23.2	1.0	-34.8	-13.0	-21.8	
3.440	-20.1	H	3.0	26.4	1.0	-45.6	-13.0	-32.6	
5.160	-15.0	H	3.0	24.3	1.0	-38.3	-13.0	-25.3	
6.880	-12.9	H	3.0	23.2	1.0	-35.0	-13.0	-22.0	
Mid Ch, (1732.5 MHz)									
3.465	-21.1	V	3.0	26.4	1.0	-46.5	-13.0	-33.5	
5.198	-15.9	V	3.0	24.3	1.0	-39.2	-13.0	-26.2	
6.930	-13.8	V	3.0	23.1	1.0	-36.0	-13.0	-23.0	
3.465	-20.0	H	3.0	26.4	1.0	-45.4	-13.0	-32.4	
5.198	-16.4	H	3.0	24.3	1.0	-39.7	-13.0	-26.7	
6.930	-11.7	H	3.0	23.1	1.0	-33.9	-13.0	-20.9	
High Ch, (1745 MHz)									
3.490	-19.8	V	3.0	26.4	1.0	-45.2	-13.0	-32.2	
5.235	-16.0	V	3.0	24.3	1.0	-39.2	-13.0	-26.2	
6.980	-14.0	V	3.0	23.1	1.0	-36.1	-13.0	-23.1	
3.490	-20.0	H	3.0	26.4	1.0	-45.4	-13.0	-32.4	
5.235	-15.3	H	3.0	24.3	1.0	-38.5	-13.0	-25.5	
6.980	-11.9	H	3.0	23.1	1.0	-34.0	-13.0	-21.0	

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Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: SONY
Project #: 14U17929
Date: 07/03/14
Test Engineer: R. Alegre
Configuration: EUT, AC charger, and Earphone
Mode: TX, LTE band 4, 15MHz BW, 16QAM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T145 8449B	Filter 1	Part 27

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, (1717.5 MHz)									
LTE4	3.435	-17.8	V	3.0	26.5	1.0	-43.3	-13.0	-30.3	
	5.153	-17.0	V	3.0	24.3	1.0	-40.3	-13.0	-27.3	
15MHz	6.870	-14.2	V	3.0	23.2	1.0	-36.4	-13.0	-23.4	
	3.435	-20.7	H	3.0	26.5	1.0	-46.1	-13.0	-33.1	
16QAM	5.153	-15.2	H	3.0	24.3	1.0	-38.6	-13.0	-25.6	
	6.870	-12.6	H	3.0	23.2	1.0	-34.8	-13.0	-21.8	
	Mid Ch, (1732.5 MHz)									
	3.465	-21.0	V	3.0	26.4	1.0	-46.4	-13.0	-33.4	
	5.198	-15.7	V	3.0	24.3	1.0	-39.0	-13.0	-26.0	
	6.930	-13.5	V	3.0	23.1	1.0	-35.7	-13.0	-22.7	
	3.465	-21.0	H	3.0	26.4	1.0	-46.4	-13.0	-33.4	
	5.198	-14.6	H	3.0	24.3	1.0	-37.9	-13.0	-24.9	
	6.930	-12.8	H	3.0	23.1	1.0	-34.9	-13.0	-21.9	
	High Ch, (1747.5 MHz)									
	3.495	-19.9	V	3.0	26.4	1.0	-45.3	-13.0	-32.3	
	5.243	-16.0	V	3.0	24.3	1.0	-39.2	-13.0	-26.2	
	6.990	-12.6	V	3.0	23.1	1.0	-34.7	-13.0	-21.7	
	3.495	-20.8	H	3.0	26.4	1.0	-46.2	-13.0	-33.2	
	5.243	-15.4	H	3.0	24.3	1.0	-38.6	-13.0	-25.6	
	6.990	-11.7	H	3.0	23.1	1.0	-33.8	-13.0	-20.8	

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Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: SONY
Project #: 14U17929
Date: 07/03/14
Test Engineer: R. Alegre
Configuration: EUT, AC charger, and Earphone
Mode: TX, LTE band 4, 15MHz BW, QPSK

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T145 8449B	Filter 1	Part 27

Band: LTE4, 15MHz, QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (1717.5 MHz)									
3.435	-18.1	V	3.0	26.5	1.0	-43.6	-13.0	-30.6	
5.153	-15.9	V	3.0	24.3	1.0	-39.2	-13.0	-26.2	
6.870	-13.7	V	3.0	23.2	1.0	-35.9	-13.0	-22.9	
3.435	-21.1	H	3.0	26.5	1.0	-46.5	-13.0	-33.5	
5.153	-15.3	H	3.0	24.3	1.0	-38.6	-13.0	-25.6	
6.870	-12.9	H	3.0	23.2	1.0	-35.1	-13.0	-22.1	
Mid Ch, (1732.5 MHz)									
3.465	-20.7	V	3.0	26.4	1.0	-46.1	-13.0	-33.1	
5.198	-15.7	V	3.0	24.3	1.0	-39.0	-13.0	-26.0	
6.930	-13.5	V	3.0	23.1	1.0	-35.7	-13.0	-22.7	
3.465	-20.8	H	3.0	26.4	1.0	-46.2	-13.0	-33.2	
5.198	-14.1	H	3.0	24.3	1.0	-37.4	-13.0	-24.4	
6.930	-12.3	H	3.0	23.1	1.0	-34.4	-13.0	-21.4	
High Ch, (1747.5 MHz)									
3.495	-20.6	V	3.0	26.4	1.0	-46.0	-13.0	-33.0	
5.243	-16.0	V	3.0	24.3	1.0	-39.3	-13.0	-26.3	
6.990	-13.5	V	3.0	23.1	1.0	-35.6	-13.0	-22.6	
3.495	-20.5	H	3.0	26.4	1.0	-45.9	-13.0	-32.9	
5.243	-15.2	H	3.0	24.3	1.0	-38.4	-13.0	-25.4	
6.990	-11.7	H	3.0	23.1	1.0	-33.8	-13.0	-20.8	

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Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: SONY
Project #: 14U17929
Date: 07/03/14
Test Engineer: R. Alegre
Configuration: EUT, AC charger, and Earphone
Mode: TX, LTE band 4, 10MHz BW, 16QAM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T145 8449B	Filter 1	Part 27

Band: LTE4, 10MHz, 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (1715 MHz)									
3.430	-18.8	V	3.0	30.4	1.0	-48.3	-13.0	-35.3	
5.145	-17.2	V	3.0	28.8	1.0	-45.0	-13.0	-32.0	
6.860	-12.9	V	3.0	27.1	1.0	-39.0	-13.0	-26.0	
3.430	-20.3	H	3.0	30.4	1.0	-49.7	-13.0	-36.7	
5.145	-15.7	H	3.0	28.8	1.0	-43.5	-13.0	-30.5	
6.860	-13.4	H	3.0	27.1	1.0	-39.6	-13.0	-26.6	
Mid Ch, (1732.5 MHz)									
3.465	-21.4	V	3.0	30.4	1.0	-50.8	-13.0	-37.8	
5.198	-16.9	V	3.0	28.7	1.0	-44.6	-13.0	-31.6	
6.930	-12.6	V	3.0	27.1	1.0	-38.7	-13.0	-25.7	
3.465	-20.4	H	3.0	30.4	1.0	-49.8	-13.0	-36.8	
5.198	-16.0	H	3.0	28.7	1.0	-43.7	-13.0	-30.7	
6.930	-12.2	H	3.0	27.1	1.0	-38.3	-13.0	-25.3	
High Ch, (1750 MHz)									
3.500	-20.7	V	3.0	30.4	1.0	-50.1	-13.0	-37.1	
5.250	-15.5	V	3.0	28.7	1.0	-43.1	-13.0	-30.1	
7.000	-14.0	V	3.0	27.0	1.0	-40.0	-13.0	-27.0	
3.500	-19.8	H	3.0	30.4	1.0	-49.2	-13.0	-36.2	
5.250	-15.1	H	3.0	28.7	1.0	-42.8	-13.0	-29.8	
7.000	-11.7	H	3.0	27.0	1.0	-37.7	-13.0	-24.7	

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Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: SONY
Project #: 14U17929
Date: 07/03/14
Test Engineer: R. Alegre
Configuration: EUT, AC charger, and Earphone
Mode: TX, LTE band 4, 10MHz BW, QPSK

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T145 8449B	Filter 1	Part 27

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, (1715 MHz)									
LTE4	3.430	-18.8	V	3.0	30.4	1.0	-48.2	-13.0	-35.2	
	5.145	-17.4	V	3.0	28.8	1.0	-45.2	-13.0	-32.2	
10MHz	6.860	-13.0	V	3.0	27.1	1.0	-39.1	-13.0	-26.1	
	3.430	-20.2	H	3.0	30.4	1.0	-49.6	-13.0	-36.6	
QPSK	5.145	-15.6	H	3.0	28.8	1.0	-43.3	-13.0	-30.3	
	6.860	-12.9	H	3.0	27.1	1.0	-39.0	-13.0	-26.0	
	Mid Ch, (1732.5 MHz)									
	3.465	-21.0	V	3.0	30.4	1.0	-50.4	-13.0	-37.4	
	5.198	-16.9	V	3.0	28.7	1.0	-44.6	-13.0	-31.6	
	6.930	-12.6	V	3.0	27.1	1.0	-38.7	-13.0	-25.7	
	3.465	-20.1	H	3.0	30.4	1.0	-49.5	-13.0	-36.5	
	5.198	-16.3	H	3.0	28.7	1.0	-44.0	-13.0	-31.0	
	6.930	-11.4	H	3.0	27.1	1.0	-37.4	-13.0	-24.4	
	High Ch, (1750 MHz)									
	3.500	-20.6	V	3.0	30.4	1.0	-50.0	-13.0	-37.0	
	5.250	-15.7	V	3.0	28.7	1.0	-43.4	-13.0	-30.4	
	7.000	-13.8	V	3.0	27.0	1.0	-39.8	-13.0	-26.8	
	3.500	-19.6	H	3.0	30.4	1.0	-49.0	-13.0	-36.0	
	5.250	-15.4	H	3.0	28.7	1.0	-43.0	-13.0	-30.0	
	7.000	-11.8	H	3.0	27.0	1.0	-37.8	-13.0	-24.8	

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Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: SONY
Project #: 14U17929
Date: 07/03/14
Test Engineer: R. Alegre
Configuration: EUT, AC charger, and Earphone
Mode: TX, LTE band 4, 5MHz BW, 16 QAM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T145 8449B	Filter 1	Part 27

Band: LTE4, 5MHz, 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (1712.5 MHz)									
3.425	-17.2	V	3.0	30.4	1.0	-46.6	-13.0	-33.6	
5.138	-17.3	V	3.0	28.8	1.0	-45.1	-13.0	-32.1	
6.850	-13.0	V	3.0	27.1	1.0	-39.2	-13.0	-26.2	
3.425	-19.0	H	3.0	30.4	1.0	-48.4	-13.0	-35.4	
5.138	-17.2	H	3.0	28.8	1.0	-45.0	-13.0	-32.0	
6.850	-12.8	H	3.0	27.1	1.0	-38.9	-13.0	-25.9	
Mid Ch, (1732.5 MHz)									
3.465	-20.1	V	3.0	30.4	1.0	-49.5	-13.0	-36.5	
5.198	-17.0	V	3.0	28.7	1.0	-44.7	-13.0	-31.7	
6.930	-13.2	V	3.0	27.1	1.0	-39.3	-13.0	-26.3	
3.465	-20.9	H	3.0	30.4	1.0	-50.3	-13.0	-37.3	
5.198	-15.9	H	3.0	28.7	1.0	-43.6	-13.0	-30.6	
6.930	-11.4	H	3.0	27.1	1.0	-37.4	-13.0	-24.4	
High Ch, (1752.5 MHz)									
3.505	-20.7	V	3.0	30.4	1.0	-50.0	-13.0	-37.0	
5.258	-16.5	V	3.0	28.6	1.0	-44.2	-13.0	-31.2	
7.010	-11.8	V	3.0	27.0	1.0	-37.8	-13.0	-24.8	
3.505	-19.3	H	3.0	30.4	1.0	-48.6	-13.0	-35.6	
5.258	-16.2	H	3.0	28.6	1.0	-43.9	-13.0	-30.9	
7.010	-11.8	H	3.0	27.0	1.0	-37.7	-13.0	-24.7	

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Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company:	SONY
Project #:	14U17929
Date:	07/03/14
Test Engineer:	R. Alegre
Configuration:	EUT, AC charger, and Earphone
Mode:	TX, LTE band 4, 5MHz BW, QPSK

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T145 8449B	Filter 1	Part 27

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, (1712.5 MHz)									
LTE4	3.425	-17.6	V	3.0	30.4	1.0	-47.1	-13.0	-34.1	
	5.138	-17.9	V	3.0	28.8	1.0	-45.6	-13.0	-32.6	
5MHz	6.850	-13.4	V	3.0	27.1	1.0	-39.6	-13.0	-26.6	
	3.425	-19.5	H	3.0	30.4	1.0	-48.9	-13.0	-35.9	
QPSK	5.138	-17.3	H	3.0	28.8	1.0	-45.1	-13.0	-32.1	
	6.850	-12.1	H	3.0	27.1	1.0	-38.2	-13.0	-25.2	
	Mid Ch, (1732.5 MHz)									
	3.465	-20.0	V	3.0	30.4	1.0	-49.4	-13.0	-36.4	
	5.198	-16.7	V	3.0	28.7	1.0	-44.4	-13.0	-31.4	
	6.930	-12.8	V	3.0	27.1	1.0	-38.8	-13.0	-25.8	
	3.465	-20.5	H	3.0	30.4	1.0	-49.9	-13.0	-36.9	
	5.198	-16.2	H	3.0	28.7	1.0	-43.9	-13.0	-30.9	
	6.930	-12.3	H	3.0	27.1	1.0	-38.3	-13.0	-25.3	
	High Ch, (1752.5 MHz)									
	3.505	-20.0	V	3.0	30.4	1.0	-49.3	-13.0	-36.3	
	5.258	-17.3	V	3.0	28.6	1.0	-44.9	-13.0	-31.9	
	7.010	-13.1	V	3.0	27.0	1.0	-39.1	-13.0	-26.1	
	3.505	-19.0	H	3.0	30.4	1.0	-48.3	-13.0	-35.3	
	5.258	-16.4	H	3.0	28.6	1.0	-44.1	-13.0	-31.1	
	7.010	-11.8	H	3.0	27.0	1.0	-37.8	-13.0	-24.8	

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Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: SONY
Project #: 14U17929
Date: 07/03/14
Test Engineer: R. Alegre
Configuration: EUT, AC charger, and Earphone
Mode: TX, LTE band 4, 3MHz BW, 16 QAM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T145 8449B	Filter 1	Part 27

Band: LTE4, 3MHz, 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (1711.5 MHz)									
3.423	-16.9	V	3.0	30.4	1.0	-46.3	-13.0	-33.3	
5.135	-16.3	V	3.0	28.8	1.0	-44.1	-13.0	-31.1	
6.846	-13.5	V	3.0	27.1	1.0	-39.7	-13.0	-26.7	
3.423	-17.3	H	3.0	30.4	1.0	-46.7	-13.0	-33.7	
5.135	-17.9	H	3.0	28.8	1.0	-45.7	-13.0	-32.7	
6.846	-12.3	H	3.0	27.1	1.0	-38.5	-13.0	-25.5	
Mid Ch, (1732.5 MHz)									
3.465	-20.5	V	3.0	30.4	1.0	-49.9	-13.0	-36.9	
5.198	-16.3	V	3.0	28.7	1.0	-44.0	-13.0	-31.0	
6.930	-13.1	V	3.0	27.1	1.0	-39.2	-13.0	-26.2	
3.465	-21.0	H	3.0	30.4	1.0	-50.4	-13.0	-37.4	
5.198	-15.9	H	3.0	28.7	1.0	-43.6	-13.0	-30.6	
6.930	-10.8	H	3.0	27.1	1.0	-36.9	-13.0	-23.9	
High Ch, (1753.5 MHz)									
3.507	-18.3	V	3.0	30.4	1.0	-47.6	-13.0	-34.6	
5.261	-16.7	V	3.0	28.6	1.0	-44.3	-13.0	-31.3	
7.014	-11.8	V	3.0	27.0	1.0	-37.8	-13.0	-24.8	
3.507	-17.1	H	3.0	30.4	1.0	-46.5	-13.0	-33.5	
5.261	-15.3	H	3.0	28.6	1.0	-43.0	-13.0	-30.0	
7.014	-10.5	H	3.0	27.0	1.0	-36.5	-13.0	-23.5	

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Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: SONY
Project #: 14U17929
Date: 07/03/14
Test Engineer: R. Alegre
Configuration: EUT, AC charger, and Earphone
Mode: TX, LTE band 4, 3MHz BW, QPSK

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T145 8449B	Filter 1	Part 27

Band: LTE4, 3MHz, QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (1711.5 MHz)									
3.423	-17.9	V	3.0	30.4	1.0	-47.3	-13.0	-34.3	
5.135	-17.1	V	3.0	28.8	1.0	-44.8	-13.0	-31.8	
6.846	-13.4	V	3.0	27.1	1.0	-39.5	-13.0	-26.5	
3.423	-18.0	H	3.0	30.4	1.0	-47.4	-13.0	-34.4	
5.135	-16.5	H	3.0	28.8	1.0	-44.3	-13.0	-31.3	
6.846	-12.0	H	3.0	27.1	1.0	-38.1	-13.0	-25.1	
Mid Ch, (1732.5 MHz)									
3.465	-18.6	V	3.0	30.4	1.0	-48.0	-13.0	-35.0	
5.198	-15.6	V	3.0	28.7	1.0	-43.3	-13.0	-30.3	
6.930	-13.0	V	3.0	27.1	1.0	-39.0	-13.0	-26.0	
3.465	-21.1	H	3.0	30.4	1.0	-50.5	-13.0	-37.5	
5.198	-16.2	H	3.0	28.7	1.0	-43.9	-13.0	-30.9	
6.930	-10.1	H	3.0	27.1	1.0	-36.1	-13.0	-23.1	
High Ch, (1753.5 MHz)									
3.507	-19.8	V	3.0	30.4	1.0	-49.2	-13.0	-36.2	
5.261	-17.3	V	3.0	28.6	1.0	-44.9	-13.0	-31.9	
7.014	-12.7	V	3.0	27.0	1.0	-38.7	-13.0	-25.7	
3.507	-18.6	H	3.0	30.4	1.0	-48.0	-13.0	-35.0	
5.261	-15.6	H	3.0	28.6	1.0	-43.2	-13.0	-30.2	
7.014	-11.7	H	3.0	27.0	1.0	-37.7	-13.0	-24.7	

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Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company:	SONY
Project #:	14U17929
Date:	07/03/14
Test Engineer:	R. Alegre
Configuration:	EUT, AC charger, and Earphone
Mode:	TX, LTE band 4, 1.4MHz BW, 16 QAM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T145 8449B	Filter 1	Part 27

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, (1710.7 MHz)									
LTE4	3.421	-15.7	V	3.0	30.4	1.0	-45.1	-13.0	-32.1	
	5.132	-18.0	V	3.0	28.8	1.0	-45.7	-13.0	-32.7	
1.4MHz	6.843	-13.7	V	3.0	27.1	1.0	-39.8	-13.0	-26.8	
	3.421	-15.3	H	3.0	30.4	1.0	-44.7	-13.0	-31.7	
16QAM	5.132	-17.0	H	3.0	28.8	1.0	-44.8	-13.0	-31.8	
	6.843	-12.3	H	3.0	27.1	1.0	-38.5	-13.0	-25.5	
	Mid Ch, (1732.5 MHz)									
	3.465	-20.1	V	3.0	30.4	1.0	-49.5	-13.0	-36.5	
	5.198	-16.1	V	3.0	28.7	1.0	-43.8	-13.0	-30.8	
	6.930	-13.0	V	3.0	27.1	1.0	-39.1	-13.0	-26.1	
	3.465	-20.5	H	3.0	30.4	1.0	-49.9	-13.0	-36.9	
	5.198	-16.0	H	3.0	28.7	1.0	-43.7	-13.0	-30.7	
	6.930	-12.3	H	3.0	27.1	1.0	-38.4	-13.0	-25.4	
	High Ch, (1754.3 MHz)									
	3.509	-20.1	V	3.0	30.4	1.0	-49.5	-13.0	-36.5	
	5.263	-16.4	V	3.0	28.6	1.0	-44.1	-13.0	-31.1	
	7.017	-12.2	V	3.0	27.0	1.0	-38.2	-13.0	-25.2	
	3.509	-18.8	H	3.0	30.4	1.0	-48.2	-13.0	-35.2	
	5.263	-15.9	H	3.0	28.6	1.0	-43.5	-13.0	-30.5	
	7.017	-9.7	H	3.0	27.0	1.0	-35.7	-13.0	-22.7	

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Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: SONY
Project #: 14U17929
Date: 07/03/14
Test Engineer: R. Alegre
Configuration: EUT, AC charger, and Earphone
Mode: TX, LTE band 4, 1.4MHz BW, QPSK

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T145 8449B	Filter 1	Part 27

Band: LTE4, 1.4MHz, QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, (1710.7 MHz)									
3.421	-15.1	V	3.0	30.4	1.0	-44.5	-13.0	-31.5	
5.132	-17.1	V	3.0	28.8	1.0	-44.9	-13.0	-31.9	
6.843	-13.5	V	3.0	27.1	1.0	-39.7	-13.0	-26.7	
3.421	-16.0	H	3.0	30.4	1.0	-45.4	-13.0	-32.4	
5.132	-17.1	H	3.0	28.8	1.0	-44.9	-13.0	-31.9	
6.843	-12.5	H	3.0	27.1	1.0	-38.7	-13.0	-25.7	
Mid Ch, (1732.5 MHz)									
3.465	-20.6	V	3.0	30.4	1.0	-50.0	-13.0	-37.0	
5.198	-16.8	V	3.0	28.7	1.0	-44.5	-13.0	-31.5	
6.930	-12.7	V	3.0	27.1	1.0	-38.8	-13.0	-25.8	
3.465	-20.6	H	3.0	30.4	1.0	-50.0	-13.0	-37.0	
5.198	-17.0	H	3.0	28.7	1.0	-44.7	-13.0	-31.7	
6.930	-11.9	H	3.0	27.1	1.0	-38.0	-13.0	-25.0	
High Ch, (1754.3 MHz)									
3.509	-20.4	V	3.0	30.4	1.0	-49.8	-13.0	-36.8	
5.263	-17.0	V	3.0	28.6	1.0	-44.7	-13.0	-31.7	
7.017	-12.1	V	3.0	27.0	1.0	-38.1	-13.0	-25.1	
3.509	-20.8	H	3.0	30.4	1.0	-50.2	-13.0	-37.2	
5.263	-15.6	H	3.0	28.6	1.0	-43.2	-13.0	-30.2	
7.017	-11.5	H	3.0	27.0	1.0	-37.5	-13.0	-24.5	

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Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: B.Liu
Configuration: X-pos EUT w/ AC Adaptor
Mode: LTE2 20M 16QAM HARM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 24

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1860MHz									
LTE2	3.720	-6.3	V	3.0	35.4	1.0	-40.7	-13.0	-27.7	
	5.580	-2.8	V	3.0	34.7	1.0	-36.5	-13.0	-23.5	
20MHz	7.440	1.6	V	3.0	34.9	1.0	-32.4	-13.0	-19.4	
	3.720	-5.5	H	3.0	35.4	1.0	-39.9	-13.0	-26.9	
16QAM	5.580	-2.1	H	3.0	34.7	1.0	-35.8	-13.0	-22.8	
	7.440	3.4	H	3.0	34.9	1.0	-30.5	-13.0	-17.5	
	Mid Ch, 1880MHz									
	3.760	-6.1	V	3.0	35.3	1.0	-40.5	-13.0	-27.5	
	5.640	-3.2	V	3.0	34.7	1.0	-37.0	-13.0	-24.0	
	7.520	1.9	V	3.0	34.9	1.0	-32.0	-13.0	-19.0	
	3.760	-4.2	H	3.0	35.3	1.0	-38.5	-13.0	-25.5	
	5.640	-2.3	H	3.0	34.7	1.0	-36.0	-13.0	-23.0	
	7.520	3.4	H	3.0	34.9	1.0	-30.5	-13.0	-17.5	
	High Ch, 1900MHz									
	3.800	-4.9	V	3.0	35.3	1.0	-39.2	-13.0	-26.2	
	5.700	-2.7	V	3.0	34.7	1.0	-36.4	-13.0	-23.4	
	7.600	1.9	V	3.0	34.9	1.0	-32.1	-13.0	-19.1	
	3.800	-3.5	H	3.0	35.3	1.0	-37.8	-13.0	-24.8	
	5.700	-1.9	H	3.0	34.7	1.0	-35.6	-13.0	-22.6	
	7.600	3.7	H	3.0	34.9	1.0	-30.3	-13.0	-17.3	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: B.Liu
Configuration: X-pos EUT w/ AC Adaptor
Mode: LTE2 20M QPSK HARM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 24

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1860MHz									
LTE2	3.720	-6.2	V	3.0	35.4	1.0	-40.6	-13.0	-27.6	
	5.580	-3.3	V	3.0	34.7	1.0	-37.1	-13.0	-24.1	
20MHz	7.440	1.8	V	3.0	34.9	1.0	-32.1	-13.0	-19.1	
	3.720	-5.3	H	3.0	35.4	1.0	-39.7	-13.0	-26.7	
QPSK	5.580	-2.5	H	3.0	34.7	1.0	-36.2	-13.0	-23.2	
	7.440	3.6	H	3.0	34.9	1.0	-30.3	-13.0	-17.3	
	Mid Ch, 1880MHz									
	3.760	-5.8	V	3.0	35.3	1.0	-40.2	-13.0	-27.2	
	5.640	-3.2	V	3.0	34.7	1.0	-36.9	-13.0	-23.9	
	7.520	1.1	V	3.0	34.9	1.0	-32.8	-13.0	-19.8	
	3.760	-4.3	H	3.0	35.3	1.0	-38.6	-13.0	-25.6	
	5.640	-2.6	H	3.0	34.7	1.0	-36.3	-13.0	-23.3	
	7.520	3.1	H	3.0	34.9	1.0	-30.8	-13.0	-17.8	
	High Ch, 1900MHz									
	3.800	-4.1	V	3.0	35.3	1.0	-38.4	-13.0	-25.4	
	5.700	-2.8	V	3.0	34.7	1.0	-36.5	-13.0	-23.5	
	7.600	2.4	V	3.0	34.9	1.0	-31.5	-13.0	-18.5	
	3.800	-3.4	H	3.0	35.3	1.0	-37.7	-13.0	-24.7	
	5.700	-1.9	H	3.0	34.7	1.0	-35.6	-13.0	-22.6	
	7.600	4.1	H	3.0	34.9	1.0	-29.9	-13.0	-16.9	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: B.Liu
Configuration: X-pos EUT w/ AC Adaptor
Mode: LTE2 15M 16QAM HARM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 24

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1857.5MHz									
LTE2	3.715	-6.2	V	3.0	35.4	1.0	-40.6	-13.0	-27.6	
	5.573	-2.8	V	3.0	34.7	1.0	-36.5	-13.0	-23.5	
15MHz	7.430	1.8	V	3.0	34.9	1.0	-32.1	-13.0	-19.1	
	3.715	-5.3	H	3.0	35.4	1.0	-39.7	-13.0	-26.7	
	5.573	-2.4	H	3.0	34.7	1.0	-36.1	-13.0	-23.1	
16QAM	7.430	3.7	H	3.0	34.9	1.0	-30.2	-13.0	-17.2	
	Mid Ch, 1880MHz									
	3.760	-4.1	V	3.0	35.3	1.0	-38.4	-13.0	-25.4	
	5.640	-2.7	V	3.0	34.7	1.0	-36.4	-13.0	-23.4	
	7.520	2.4	V	3.0	34.9	1.0	-31.6	-13.0	-18.6	
	3.760	-3.9	H	3.0	35.3	1.0	-38.3	-13.0	-25.3	
	5.640	-2.0	H	3.0	34.7	1.0	-35.8	-13.0	-22.8	
	7.520	3.6	H	3.0	34.9	1.0	-30.4	-13.0	-17.4	
	High Ch, 1902.5MHz									
	3.805	-5.4	V	3.0	35.3	1.0	-39.7	-13.0	-26.7	
	5.706	-2.5	V	3.0	34.7	1.0	-36.3	-13.0	-23.3	
	7.610	2.5	V	3.0	34.9	1.0	-31.5	-13.0	-18.5	
	3.805	-2.2	H	3.0	35.3	1.0	-36.5	-13.0	-23.5	
	5.706	-1.8	H	3.0	34.7	1.0	-35.6	-13.0	-22.6	
	7.610	3.9	H	3.0	34.9	1.0	-30.0	-13.0	-17.0	

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 #: 14U17929
Date: 07/03/14
Test Engineer: B.Liu
Configuration: X-pos EUT w/ AC Adaptor
Mode: LTE2 15M QPSK HARM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 24

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1857.5MHz									
LTE2	3.715	-6.3	V	3.0	35.4	1.0	-40.6	-13.0	-27.6	
	5.573	-2.7	V	3.0	34.7	1.0	-36.5	-13.0	-23.5	
15MHz	7.430	2.1	V	3.0	34.9	1.0	-31.9	-13.0	-18.9	
	3.715	-6.0	H	3.0	35.4	1.0	-40.4	-13.0	-27.4	
QPSK	5.573	-1.9	H	3.0	34.7	1.0	-35.6	-13.0	-22.6	
	7.430	3.5	H	3.0	34.9	1.0	-30.5	-13.0	-17.5	
	Mid Ch, 1880MHz									
	3.760	-5.7	V	3.0	35.3	1.0	-40.1	-13.0	-27.1	
	5.640	-2.5	V	3.0	34.7	1.0	-36.2	-13.0	-23.2	
	7.520	2.0	V	3.0	34.9	1.0	-31.9	-13.0	-18.9	
	3.760	-3.7	H	3.0	35.3	1.0	-38.0	-13.0	-25.0	
	5.640	-2.0	H	3.0	34.7	1.0	-35.8	-13.0	-22.8	
	7.520	3.3	H	3.0	34.9	1.0	-30.7	-13.0	-17.7	
	High Ch, 1902.5MHz									
	3.805	-5.6	V	3.0	35.3	1.0	-39.9	-13.0	-26.9	
	5.706	-2.0	V	3.0	34.7	1.0	-35.7	-13.0	-22.7	
	7.610	2.6	V	3.0	34.9	1.0	-31.3	-13.0	-18.3	
	3.805	-1.4	H	3.0	35.3	1.0	-35.7	-13.0	-22.7	
	5.706	-1.7	H	3.0	34.7	1.0	-35.4	-13.0	-22.4	
	7.610	4.0	H	3.0	34.9	1.0	-30.0	-13.0	-17.0	

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 #: 14U17929
Date: 07/03/14
Test Engineer: B.Liu
Configuration: X-pos EUT w/ AC Adaptor
Mode: LTE2 10M 16QAM HARM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 24

Band	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1855MHz									
LTE2	3.710	-6.0	V	3.0	35.4	1.0	-40.4	-13.0	-27.4	
	5.565	-3.5	V	3.0	34.7	1.0	-37.2	-13.0	-24.2	
10MHz	7.420	1.8	V	3.0	34.9	1.0	-32.1	-13.0	-19.1	
	3.710	-6.2	H	3.0	35.4	1.0	-40.6	-13.0	-27.6	
16QAM	5.565	-2.0	H	3.0	34.7	1.0	-35.7	-13.0	-22.7	
	7.420	3.4	H	3.0	34.9	1.0	-30.5	-13.0	-17.5	
	Mid Ch, 1880MHz									
	3.760	-3.5	V	3.0	35.3	1.0	-37.9	-13.0	-24.9	
	5.640	-2.9	V	3.0	34.7	1.0	-36.7	-13.0	-23.7	
	7.520	2.0	V	3.0	34.9	1.0	-31.9	-13.0	-18.9	
	3.760	-3.0	H	3.0	35.3	1.0	-37.3	-13.0	-24.3	
	5.640	-2.0	H	3.0	34.7	1.0	-35.8	-13.0	-22.8	
	7.520	3.6	H	3.0	34.9	1.0	-30.3	-13.0	-17.3	
	High Ch, 1905MHz									
	3.810	-5.6	V	3.0	35.3	1.0	-39.9	-13.0	-26.9	
	5.715	-2.8	V	3.0	34.7	1.0	-36.5	-13.0	-23.5	
	7.620	2.6	V	3.0	34.9	1.0	-31.4	-13.0	-18.4	
	3.810	-0.7	H	3.0	35.3	1.0	-35.0	-13.0	-22.0	
	5.715	-1.9	H	3.0	34.7	1.0	-35.7	-13.0	-22.7	
	7.620	4.5	H	3.0	34.9	1.0	-29.4	-13.0	-16.4	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/09/14
Test Engineer: B.Liu
Configuration: X-pos EUT w/ AC Adaptor
Mode: LTE2 10M QPSK HARM

Chamber	Pre-amplifer	Filter	Limit
3m Chamber	T34 8449B	Filter 1	Part 24

Band: LTE2 10MHz QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1855MHz									
3.710	-4.9	V	3.0	35.4	1.0	-39.3	-13.0	-26.3	
5.565	-2.1	V	3.0	34.7	1.0	-35.9	-13.0	-22.9	
7.420	2.2	V	3.0	34.9	1.0	-31.7	-13.0	-18.7	
3.710	-5.5	H	3.0	35.4	1.0	-39.9	-13.0	-26.9	
5.565	-1.7	H	3.0	34.7	1.0	-35.5	-13.0	-22.5	
7.420	3.9	H	3.0	34.9	1.0	-30.1	-13.0	-17.1	
Mid Ch, 1880MHz									
3.760	-3.4	V	3.0	35.3	1.0	-37.7	-13.0	-24.7	
5.640	-2.4	V	3.0	34.7	1.0	-36.1	-13.0	-23.1	
7.520	2.0	V	3.0	34.9	1.0	-31.9	-13.0	-18.9	
3.760	-2.9	H	3.0	35.3	1.0	-37.2	-13.0	-24.2	
5.640	-1.2	H	3.0	34.7	1.0	-34.9	-13.0	-21.9	
7.520	3.4	H	3.0	34.9	1.0	-30.5	-13.0	-17.5	
High Ch, 1905MHz									
3.810	-4.9	V	3.0	35.3	1.0	-39.2	-13.0	-26.2	
5.715	-2.5	V	3.0	34.7	1.0	-36.3	-13.0	-23.3	
7.620	3.0	V	3.0	34.9	1.0	-30.9	-13.0	-17.9	
3.810	0.0	H	3.0	35.3	1.0	-34.3	-13.0	-21.3	
5.715	-1.6	H	3.0	34.7	1.0	-35.3	-13.0	-22.3	
7.620	4.9	H	3.0	34.9	1.0	-29.1	-13.0	-16.1	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: O. Stoelting
Configuration: X Position, EUT and AC Adapter
Mode: LTE2_5M_16QAM

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

Band: LTE2 5MHz 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1852.5MHz									
3.705	-15.7	V	3.0	35.4	1.0	-50.1	-13.0	-37.1	
5.557	-15.2	V	3.0	34.7	1.0	-49.0	-13.0	-36.0	
7.410	-15.1	V	3.0	34.9	1.0	-49.0	-13.0	-36.0	
3.705	-17.6	H	3.0	35.4	1.0	-52.0	-13.0	-39.0	
5.557	-14.5	H	3.0	34.7	1.0	-48.3	-13.0	-35.3	
7.410	-13.8	H	3.0	34.9	1.0	-47.7	-13.0	-34.7	
Mid Ch, 1880.0MHz									
3.760	-11.2	V	3.0	35.3	1.0	-45.6	-13.0	-32.6	
5.640	-16.0	V	3.0	34.7	1.0	-49.8	-13.0	-36.8	
7.520	-14.7	V	3.0	34.9	1.0	-48.6	-13.0	-35.6	
3.760	-17.5	H	3.0	35.3	1.0	-51.8	-13.0	-38.8	
5.640	-15.0	H	3.0	34.7	1.0	-48.7	-13.0	-35.7	
7.520	-13.4	H	3.0	34.9	1.0	-47.3	-13.0	-34.3	
High Ch, 1907.5 MHz									
3.815	-13.8	V	3.0	35.3	1.0	-48.1	-13.0	-35.1	
5.722	-15.7	V	3.0	34.7	1.0	-49.4	-13.0	-36.4	
7.630	-13.6	V	3.0	34.9	1.0	-47.5	-13.0	-34.5	
3.815	-16.2	H	3.0	35.3	1.0	-50.5	-13.0	-37.5	
5.722	-15.1	H	3.0	34.7	1.0	-48.8	-13.0	-35.8	
7.630	-13.0	H	3.0	34.9	1.0	-46.9	-13.0	-33.9	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: O. Stoelting
Configuration: X Position, EUT and AC Adapter
Mode: LTE2_5M_QPSK

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

Band: LTE2 5MHz QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1852.5MHz									
3.705	-15.5	V	3.0	35.4	1.0	-49.9	-13.0	-36.9	
5.557	-15.8	V	3.0	34.7	1.0	-49.5	-13.0	-36.5	
7.410	-15.0	V	3.0	34.9	1.0	-48.9	-13.0	-35.9	
3.705	-17.8	H	3.0	35.4	1.0	-52.2	-13.0	-39.2	
5.557	-13.9	H	3.0	34.7	1.0	-47.6	-13.0	-34.6	
7.410	-12.7	H	3.0	34.9	1.0	-46.6	-13.0	-33.6	
Mid Ch, 1880.0MHz									
3.760	-12.7	V	3.0	35.3	1.0	-47.0	-13.0	-34.0	
5.640	-15.9	V	3.0	34.7	1.0	-49.6	-13.0	-36.6	
7.520	-14.2	V	3.0	34.9	1.0	-48.2	-13.0	-35.2	
3.760	-16.9	H	3.0	35.3	1.0	-51.3	-13.0	-38.3	
5.640	-15.7	H	3.0	34.7	1.0	-49.4	-13.0	-36.4	
7.520	-13.1	H	3.0	34.9	1.0	-47.0	-13.0	-34.0	
High Ch, 1907.5 MHz									
3.815	-13.2	V	3.0	35.3	1.0	-47.5	-13.0	-34.5	
5.722	-16.3	V	3.0	34.7	1.0	-50.0	-13.0	-37.0	
7.630	-14.0	V	3.0	34.9	1.0	-47.9	-13.0	-34.9	
3.815	-16.7	H	3.0	35.3	1.0	-51.0	-13.0	-38.0	
5.722	-13.9	H	3.0	34.7	1.0	-47.7	-13.0	-34.7	
7.630	-12.9	H	3.0	34.9	1.0	-46.9	-13.0	-33.9	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: O. Stoelting
Configuration: X Position, EUT and AC Adapter
Mode: LTE2_3M_HARM_16QAM

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

Band: LTE2 3MHz 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.5MHz									
3.703	-17.8	V	3.0	35.4	1.0	-52.2	-13.0	-39.2	
5.554	-16.0	V	3.0	34.7	1.0	-49.8	-13.0	-36.8	
7.406	-15.3	V	3.0	34.9	1.0	-49.2	-13.0	-36.2	
3.703	-18.5	H	3.0	35.4	1.0	-52.9	-13.0	-39.9	
5.554	-15.2	H	3.0	34.7	1.0	-48.9	-13.0	-35.9	
7.406	-13.4	H	3.0	34.9	1.0	-47.3	-13.0	-34.3	
Mid Ch, 1880.0MHz									
3.760	-16.4	V	3.0	35.3	1.0	-50.8	-13.0	-37.8	
5.640	-16.0	V	3.0	34.7	1.0	-49.7	-13.0	-36.7	
7.520	-14.2	V	3.0	34.9	1.0	-48.1	-13.0	-35.1	
3.760	-17.0	H	3.0	35.3	1.0	-51.3	-13.0	-38.3	
5.640	-14.4	H	3.0	34.7	1.0	-48.1	-13.0	-35.1	
7.520	-13.6	H	3.0	34.9	1.0	-47.5	-13.0	-34.5	
High Ch, 1908.5 MHz									
3.817	-16.5	V	3.0	35.3	1.0	-50.8	-13.0	-37.8	
5.725	-15.0	V	3.0	34.7	1.0	-48.7	-13.0	-35.7	
7.634	-13.7	V	3.0	34.9	1.0	-47.6	-13.0	-34.6	
3.817	-17.1	H	3.0	35.3	1.0	-51.4	-13.0	-38.4	
5.725	-15.2	H	3.0	34.7	1.0	-48.9	-13.0	-35.9	
7.634	-12.2	H	3.0	34.9	1.0	-46.2	-13.0	-33.2	

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

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Sony
Project #: 14U17929
Date: 07/03/14
Test Engineer: O. Stoelting
Configuration: X Position, EUT and AC Adapter
Mode: LTE2_3M_HARM_QPSK

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

Band: LTE2 3MHz QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1851.5MHz									
3.703	-18.0	V	3.0	35.4	1.0	-52.4	-13.0	-39.4	
5.554	-15.5	V	3.0	34.7	1.0	-49.2	-13.0	-36.2	
7.406	-14.6	V	3.0	34.9	1.0	-48.6	-13.0	-35.6	
3.703	-17.8	H	3.0	35.4	1.0	-52.2	-13.0	-39.2	
5.554	-14.9	H	3.0	34.7	1.0	-48.6	-13.0	-35.6	
7.406	-13.5	H	3.0	34.9	1.0	-47.4	-13.0	-34.4	
Mid Ch, 1880.0MHz									
3.760	-15.0	V	3.0	35.3	1.0	-49.4	-13.0	-36.4	
5.640	-16.0	V	3.0	34.7	1.0	-49.8	-13.0	-36.8	
7.520	-14.0	V	3.0	34.9	1.0	-47.9	-13.0	-34.9	
3.760	-16.7	H	3.0	35.3	1.0	-51.0	-13.0	-38.0	
5.640	-15.0	H	3.0	34.7	1.0	-48.7	-13.0	-35.7	
7.520	-12.8	H	3.0	34.9	1.0	-46.8	-13.0	-33.8	
High Ch, 1908.5 MHz									
3.817	-16.8	V	3.0	35.3	1.0	-51.0	-13.0	-38.0	
5.725	-16.0	V	3.0	34.7	1.0	-49.7	-13.0	-36.7	
7.634	-14.1	V	3.0	34.9	1.0	-48.1	-13.0	-35.1	
3.817	-16.9	H	3.0	35.3	1.0	-51.2	-13.0	-38.2	
5.725	-15.4	H	3.0	34.7	1.0	-49.2	-13.0	-36.2	
7.634	-13.0	H	3.0	34.9	1.0	-47.0	-13.0	-34.0	

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 #: 14U17929
Date: 07/03/14
Test Engineer: O. Stoelting
Configuration: X Position, EUT and AC Adapter
Mode: LTE2_1.4M_HARM_16QAM

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

Band: LTE2, 1.4MHz, 16QAM

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.7MHz									
3.702	-19.3	V	3.0	35.4	1.0	-53.7	-13.0	-40.7	
5.553	-14.6	V	3.0	34.7	1.0	-48.3	-13.0	-35.3	
7.404	-16.7	V	3.0	34.9	1.0	-50.6	-13.0	-37.6	
3.702	-19.4	H	3.0	35.4	1.0	-53.8	-13.0	-40.8	
5.553	-16.8	H	3.0	34.7	1.0	-50.6	-13.0	-37.6	
7.404	-16.0	H	3.0	34.9	1.0	-50.0	-13.0	-37.0	
Mid Ch, 1880.0MHz									
3.760	-15.1	V	3.0	35.3	1.0	-49.4	-13.0	-36.4	
5.640	-17.6	V	3.0	34.7	1.0	-51.4	-13.0	-38.4	
7.520	-15.5	V	3.0	34.9	1.0	-49.4	-13.0	-36.4	
3.760	-18.1	H	3.0	35.3	1.0	-52.5	-13.0	-39.5	
5.640	-16.5	H	3.0	34.7	1.0	-50.3	-13.0	-37.3	
7.520	-14.5	H	3.0	34.9	1.0	-48.4	-13.0	-35.4	
High Ch, 1909.3 MHz									
3.816	-15.7	V	3.0	35.3	1.0	-50.0	-13.0	-37.0	
5.724	-16.4	V	3.0	34.7	1.0	-50.1	-13.0	-37.1	
7.632	-14.0	V	3.0	34.9	1.0	-48.0	-13.0	-35.0	
3.816	-18.3	H	3.0	35.3	1.0	-52.6	-13.0	-39.6	
5.724	-16.5	H	3.0	34.7	1.0	-50.2	-13.0	-37.2	
7.632	-13.0	H	3.0	34.9	1.0	-47.0	-13.0	-34.0	

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 #: 14U17929
Date: 07/03/14
Test Engineer: O. Stoelting
Configuration: X Position, EUT and AC Adapter
Mode: LTE2_1.4M_HARM_QPSK

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

Band: LTE2, 1.4MHz, QPSK

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1850.7MHz									
3.702	-19.3	V	3.0	35.4	1.0	-53.7	-13.0	-40.7	
5.553	-13.9	V	3.0	34.7	1.0	-47.6	-13.0	-34.6	
7.404	-16.0	V	3.0	34.9	1.0	-49.9	-13.0	-36.9	
3.702	-19.3	H	3.0	35.4	1.0	-53.7	-13.0	-40.7	
5.553	-16.5	H	3.0	34.7	1.0	-50.3	-13.0	-37.3	
7.404	-15.2	H	3.0	34.9	1.0	-49.1	-13.0	-36.1	
Mid Ch, 1880.0MHz									
3.760	-14.2	V	3.0	35.3	1.0	-48.5	-13.0	-35.5	
5.640	-17.2	V	3.0	34.7	1.0	-50.9	-13.0	-37.9	
7.520	-15.6	V	3.0	34.9	1.0	-49.5	-13.0	-36.5	
3.760	-16.3	H	3.0	35.3	1.0	-50.6	-13.0	-37.6	
5.640	-16.3	H	3.0	34.7	1.0	-50.1	-13.0	-37.1	
7.520	-14.5	H	3.0	34.9	1.0	-48.5	-13.0	-35.5	
High Ch, 1909.3 MHz									
3.816	-16.2	V	3.0	35.3	1.0	-50.4	-13.0	-37.4	
5.724	-16.3	V	3.0	34.7	1.0	-50.0	-13.0	-37.0	
7.632	-15.0	V	3.0	34.9	1.0	-48.9	-13.0	-35.9	
3.816	-17.6	H	3.0	35.3	1.0	-51.9	-13.0	-38.9	
5.724	-14.8	H	3.0	34.7	1.0	-48.6	-13.0	-35.6	
7.632	-14.0	H	3.0	34.9	1.0	-47.9	-13.0	-34.9	

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