



RADIO TEST REPORT

Test Report No. : 32HE0108-SH-01-A

Applicant : Sony Corporation

Type of Equipment : RF STEREO TRANSMITTER

Model No. : TMR-RF985R

FCC ID : AK8TMRRF985R

Test regulation : FCC Part15 Subpart C: 2012

Test result : Complied

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2. The results in this report apply only to the sample tested.
3. This sample tested is in compliance with the limits of the above regulation.
4. The test results in this test report are traceable to the national or international standards.
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6. The opinions and the interpretations to the result of the description in this report are outside scopes where UL Japan has been accredited.

Date of test: March 13 to 31, 2012

Representative test engineer:

Kenichi Adachi
Engineer of WiSE Japan,
UL Verification Service

Approved by :

Go Ishiwata
Manager of WiSE Japan,
UL Verification Service

- The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan.
- There is no testing item of "Non-accreditation".



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13-EM-F0429

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SECTION 1: Customer information

Company Name : Sony Corporation
Brand Name : SONY
Address : Shinagawa INTERCITY C Tower 2-15-3, Konan Minato-ku, Tokyo, 108-6201
Japan
Telephone Number : +81-3-5769-5640
Facsimile Number : +81-3-5769-5996
Contact Person : Takayuki Toyoda

SECTION 2: Equipment under test (E.U.T.)

2.1 Identification of E.U.T.

Type of Equipment : RF STEREO TRANSMITTER
Model No. : TMR-RF985R
Serial No. : 1
Rating : AC 120V / 60Hz (DC12V from the supplied AC adaptor)
Receipt Date of Sample : March 8, 2012
Country of Mass-production : China
Condition of EUT : Engineering prototype
(Not for Sale: This sample is equivalent to mass-produced items.)
Modification of EUT : No modification by the test lab.

2.2 Product description

Model: TMR-RF985R (referred to as the EUT in this report) is a RF STEREO TRANSMITTER.

Clock frequency(ies) in the system : 900kHz, 7.6MHz

Radio specification

Equipment type : Transmitter
Frequency of operation : 915.5-916.5MHz (1ch: 915.5MHz, 2ch:916.0MHz, 3ch:916.5MHz)
Channel spacing : 0.5MHz
Type of modulation : FM
Antenna type : Integral
ITU code : F3E
Operation temperature range : 0 to +40 deg.C.

FCC 15.31 (e)

This EUT provides stable voltage (DC5.0V) constantly to RF transmitter regardless of input voltage. Therefore, this EUT complies with the requirement.

FCC 15.203

It is impossible for end users to replace the antenna, because the antenna is mounted inside of the EUT. Therefore, the equipment complies with the antenna requirement.

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SECTION 3: Test specification, procedures & results

3.1 Test specification

Test specification : FCC Part 15 Subpart C: 2012, final revised on February 1, 2012
Title : FCC 47CFR Part15 Radio Frequency Device Subpart C Intentional Radiators
Section 15.207 Conducted limits
Section 15.209 Radiated emission limits, general requirements
Section 15.249 Operation within the bands 902-928MHz, 2400-2483.5MHz,
5725-5875MHz, and 24.0-24.25GHz

The EUT complies with FCC Part 15 Subpart B. Refer to the test report: 32HE0108-SH-01-E.

3.2 Procedures & Results

| Item | Test Procedure | Specification | Remarks | Deviation | Worst Margin | Results |
|---|--|---|----------|------------|---|----------|
| Conducted emission | ANSI C63.4:2009 7. AC powerline conducted emission measurements | FCC 15.207 | - | N/A | 27.9dB Freq.: 0.28797MHz Detector: Average Phase: L1 Mode: Tx 915.5MHz | Complied |
| 20dB bandwidth | ANSI C63.4:2009 13. Measurement of intentional radiators | FCC 15.215 | Radiated | N/A | - | - |
| Electric field strength of fundamental emission | ANSI C63.4:2009 13. Measurement of intentional radiators | FCC 15.249 (a)(e), 15.209 | Radiated | N/A | 4.9dB Freq.: 915.487MHz Detector: Quasi-Peak Polarization: Vertical Mode: Tx 915.5MHz | Complied |
| Electric field strength of spurious emission | ANSI C63.4:2009 13. Measurement of intentional radiators | FCC 15.205 (a)(b), 15.209, 15.249 (a)(d)(e) | Radiated | N/A | 6.8dB Freq.: 4577.500MHz Detector: Average Polarization: Horizontal Mode: Tx 915.5MHz | Complied |
| Frequency tolerance | ANSI C63.4:2009 13. Measurement of intentional radiators | FCC 15.249 (b) | - | N/A *1) | N/A | N/A |
| Note: UL Japan's EMI Work Procedures No.13-EM-W0420 and 13-EM-W0422 | | | | | | |
| *1) The test is not required since this EUT does not operate in the restricted bands and the prohibited TV bands. | | | | | | |

3.3 Addition to standard

| Item | Test Procedure | Specification | Remarks | Worst Margin | Results |
|---|---|---------------|----------|--------------|---------|
| Occupied bandwidth (99%) | ANSI C63.4:2009 13. Measurement of intentional radiators, RSS-Gen 4.6.1 | - | Radiated | - | - |
| Note: UL Japan's EMI Work Procedures No.13-EM-W0420 and 13-EM-W0422 | | | | | |

* Other than above, no addition, exclusion nor deviation has been made from the standard.

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3.4 Uncertainty

The following uncertainties have been calculated to provide a confidence level of 95% using a coverage factor k=2.

| Item | Frequency range | No.1 SAC ^{*1} /SR ^{*2} (±) | No.2 SAC/SR (±) | No.3 SAC/SR (±) |
|---|-----------------|--|-----------------|-----------------|
| Conducted emission (AC Mains) AMN/LISN | 150kHz-30MHz | 3.6 dB | 3.6 dB | 3.6 dB |
| Radiated emission (Measurement distance: 3m) | 9kHz-30MHz | 3.7 dB | 3.7 dB | 3.6 dB |
| | 30MHz-300MHz | 4.9 dB | 5.1 dB | 5.0 dB |
| | 300MHz-1GHz | 5.0 dB | 5.2 dB | 5.0 dB |
| | 1GHz-13GHz | 4.8 dB | 4.8 dB | 4.9 dB |

*1: SAC=Semi-Anechoic Chamber

*2: SR= Shielded Room is applied besides radiated emission

Conducted emission test

The data listed in this test report has enough margin, more than site margin.

Radiated emission test

The data listed in this report meets the limits unless the uncertainty is taken into consideration.

3.5 Test location

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JAB Accreditation No. : RTL02610

| | FCC Registration No. | IC Registration No. | Width x Depth x Height (m) | Size of reference ground plane (m) / horizontal conducting plane | Maximum measurement distance |
|--|----------------------------|---------------------------|-------------------------------|---|------------------------------------|
| <input type="checkbox"/> No.1 Semi-anechoic chamber | 697847 | 2973D-1 | 20.6 x 11.3 x 7.65 | 20.6 x 11.3 | 10m |
| <input type="checkbox"/> No.2 Semi-anechoic chamber | 697847 | 2973D-2 | 20.6 x 11.3 x 7.65 | 20.6 x 11.3 | 10m |
| <input checked="" type="checkbox"/> No.3 Semi-anechoic chamber | 697847 | 2973D-3 | 12.7 x 7.7 x 5.35 | 12.7 x 7.7 | 5m |
| <input type="checkbox"/> No.4 Full-anechoic chamber | - | - | 8.1 x 5.1 x 3.55 | 8.1 x 5.1 | - |
| <input type="checkbox"/> No.1 shielded room | - | - | 6.8 x 4.1 x 2.7 | 6.8 x 4.1 | - |
| <input type="checkbox"/> No.2 shielded room | - | - | 6.8 x 4.1 x 2.7 | 6.8 x 4.1 | - |
| <input checked="" type="checkbox"/> No.3 shielded room | - | - | 6.3 x 4.7 x 2.7 | 6.3 x 4.7 | - |
| <input type="checkbox"/> No.4 shielded room | - | - | 4.4 x 4.7 x 2.7 | 4.4 x 4.7 | - |
| <input type="checkbox"/> No.5 shielded room | - | - | 7.8 x 6.4 x 2.7 | 7.8 x 6.4 | - |
| <input type="checkbox"/> No.6 shielded room | - | - | 7.8 x 6.4 x 2.7 | 7.8 x 6.4 | - |

3.6 Test setup, Data of test & Test instruments

Refer to APPENDIX 1 to 3.

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SECTION 4: Operation of E.U.T. during testing

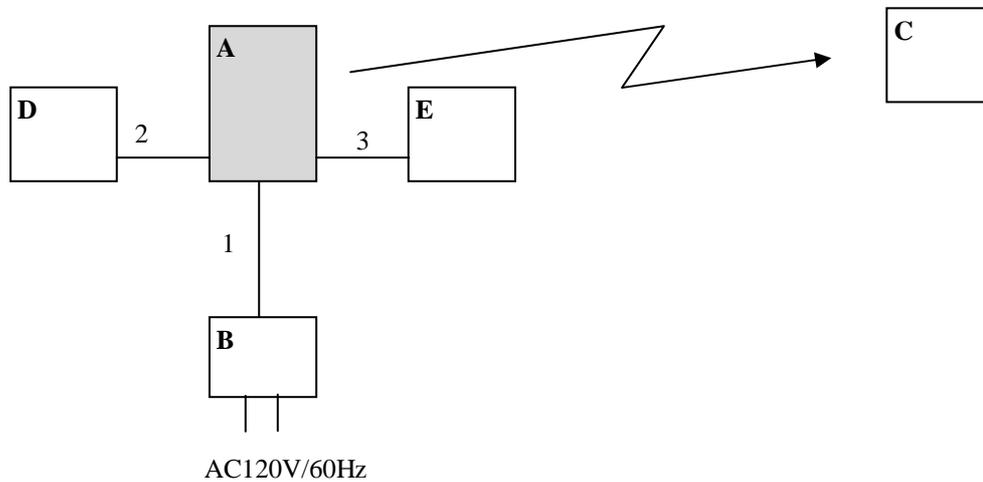
4.1 Operating mode

The EUT exercise program used during testing was designed to exercise the various system components in a manner similar to typical use.

| Test item | Operating mode | Tested frequency |
|-----------|--|----------------------------------|
| All items | Transmitting (FM = Frequency Modulation), Input typical audio signal from cassette tape | 915.5MHz 916.0MHz 916.5MHz |

Justification: The system was configured in typical fashion (as customer would normally use it) for testing.

4.2 Configuration and peripherals



* Test data was taken under worse case conditions.

Description of EUT and support equipment

| No. | Item | Model number | Serial number | Manufacturer | Remarks |
|-----|----------------------------|--------------|---------------|--------------|---------|
| A | RF STEREO TRANSMITTER | TMR-RF985R | 1 | SONY | EUT |
| B | AC adaptor | AC-MS1202S | 0712 | SONY | - |
| C | Wireless Stereo Headphones | MDR-RF985R | 1 | SONY | *1) |
| D | Cassette recorder | TCM-400DV | 6067704 | SONY | - |
| E | Compact Disc player | D-321 | 157078 | SONY | - |

*1) This item was used for Conducted emission only. (This item is receiver unit.)

List of cables used

| No. | Cable | Length (m) | Shield-Cable | Shield-Connector | Remarks |
|-----|-----------|------------|--------------|------------------|-------------------|
| 1 | DC | 1.9 | Unshielded | Unshielded | - |
| 2 | AUDIO IN1 | 1.0 | Shielded | Shielded | (RCA - Stereo) |
| 3 | AUDIO IN2 | 2.2 | Shielded | Shielded | (Stereo - Stereo) |

* All cables used for the measurement are exclusive use or marketed.

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SECTION 5: Conducted emission

5.1 Operating environment

Test place : See test data (APPENDIX 1)
Temperature : See test data (APPENDIX 1)
Humidity : See test data (APPENDIX 1)

5.2 Test configuration

EUT was placed on a platform of nominal size, 1m by 1.5m, raised 0.8m above the conducting ground plane. The table is made of Styrofoam and covered with polyvinyl chloride. That has very low permittivity. The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT, including peripherals was aligned and was flushed with rear of tabletop. All other surfaces of tabletop were at least 80cm from any other grounded conducting surface. EUT was located 80cm from LISN and excess AC cable was bundled in center. I/O cables that were connected to the peripherals were bundled in center. They were folded back and for the forming a bundle 30cm to 40cm long and were hanged at a 40cm height to the ground plane. Each EUT current-carrying power lead, except the ground (safety) lead, was individually connected through a LISN to the input power source. All unused 50ohm connectors of the LISN were resistively terminated in 50ohm when not connected to the measuring equipment. Photographs of the set up are shown in APPENDIX 3.

5.3 Test conditions

Frequency range : 0.15 - 30MHz
EUT position : Table top

5.4 Test procedure

The AC Mains Terminal Continuous disturbance Voltage had been measured with the EUT within a shielded room. The EUT was connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection has been performed. The measurements had been performed with a quasi-peak detector and if required, an average detector. The conducted emission measurements were made with the following detector of the test receiver.

Detector Type : Quasi-Peak/ Average
IF Bandwidth : 9kHz

5.5 Results

Summary of the test results : Pass
Refer to APPENDIX 1

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SECTION 6: 20dB bandwidth & Occupied bandwidth (99%)

6.1 Operating environment

Test place : See test data (APPENDIX 1)
Temperature : See test data (APPENDIX 1)
Humidity : See test data (APPENDIX 1)

6.2 Test configuration

EUT was placed on a platform of nominal size, 1m by 1.5m, raised 0.8m above the conducting ground plane. The table is made of Styrofoam and covered with polyvinyl chloride. That has very low permittivity. The rear of EUT, including its peripherals was aligned and flushed with rear of tabletop. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength. Photographs of the set up are shown in Appendix 3.

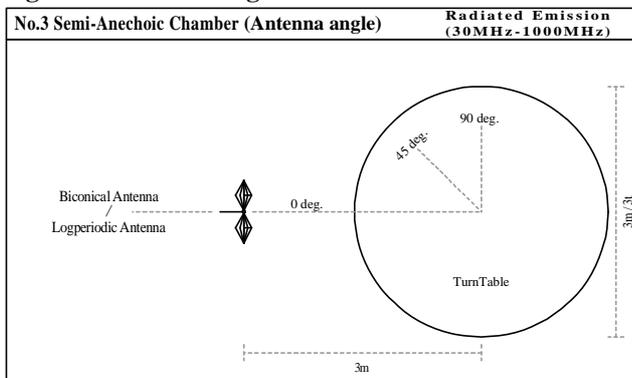
6.3 Test procedure

The power has been measured on a semi-anechoic chamber with a ground plane and at a distance of 3m. Measurements were performed with peak detector. The measuring antenna height was varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity. The measurements were performed for both vertical and horizontal antenna polarization.

Detection Type : Peak (20dB bandwidth) / Sample (99% Occupied bandwidth)
IF Bandwidth : RBW: 10kHz/VBW: 30kHz

The EUT was tested in the direction normally used.

Figure 1. Antenna angle



6.4 Results

Summary of the test results: Pass
Refer to APPENDIX 1

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SECTION 7: Radiated emission

7.1 Operating environment

Test place : See test data (APPENDIX 1)
Temperature : See test data (APPENDIX 1)
Humidity : See test data (APPENDIX 1)

7.2 Test configuration

EUT was placed on a platform of nominal size, 1m by 1.5m (below 1GHz) or 0.5m by 1.0m (above 1GHz) , raised 0.8m above the conducting ground plane.

The table is made of Styrofoam and covered with polyvinyl chloride. That has very low permittivity.

The rear of EUT, including its peripherals was aligned and flushed with rear of tabletop.

Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

Photographs of the set up are shown in Appendix 3.

7.3 Test conditions

Frequency range : 9kHz to 10GHz
EUT position : Table top

7.4 Test procedure

The Radiated Electric Field Strength intensity has been measured on a semi-anechoic chamber with a ground plane and at a distance of 3m

<9kHz to 30MHz>

The EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for vertical polarization (antenna angle: 0deg.to 360deg.) and horizontal polarization.

* FCC 15.31 (f)(2) (9kHz-30MHz)

9kHz – 490kHz [Limit at 3m]= [Limit at 300m]-40log (3[m]/300[m])

490kHz – 30MHz [Limit at 3m]= [Limit at 30m]-40log (3[m]/30[m])

<30MHz to 10GHz>

The measuring antenna height was varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity. The measurements were performed for both vertical and horizontal antenna polarization.

The radiated emission measurements were made with the following detection of the test receiver and Spectrum Analyzer.

| | 9kHz to 90kHz & 110kHz to 150kHz | 90kHz to 110kHz | 150kHz to 490kHz | 490kHz to 30MHz | 30MHz to 1GHz | 1GHz to 10GHz | |
|---------------|-------------------------------------|--------------------|---------------------|--------------------|------------------|-------------------------|-------------------------|
| Detector type | PK/AV | QP | PK/AV | QP | QP | PK | * AV |
| IF Bandwidth | 200Hz | 200Hz | 10kHz | 9kHz | 120kHz | RBW: 1MHz /VBW: 3MHz | RBW: 1MHz /VBW: 10Hz |

* When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

The EUT was tested in the direction normally used.

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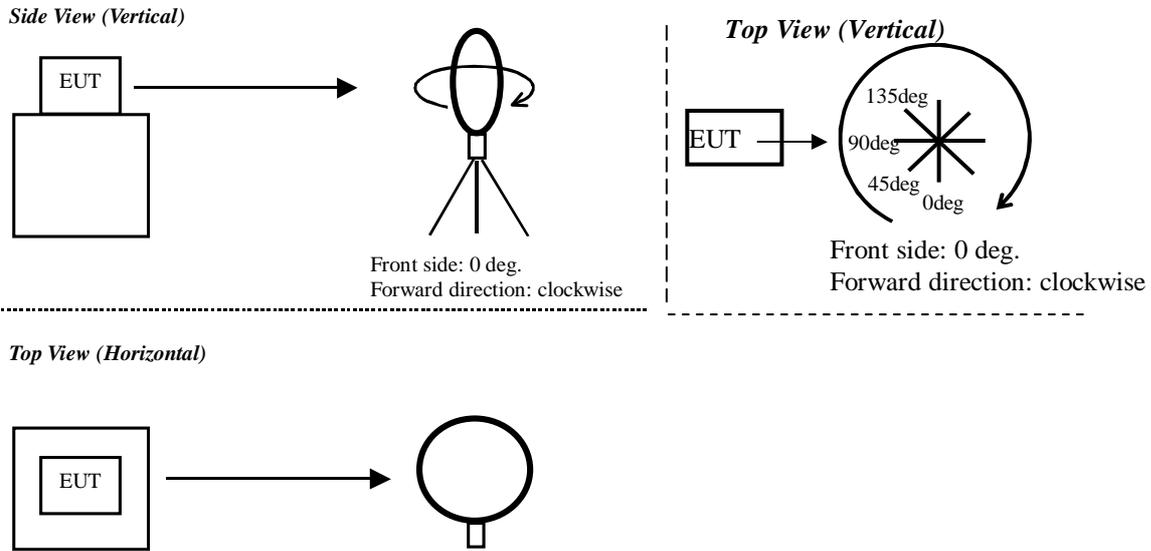
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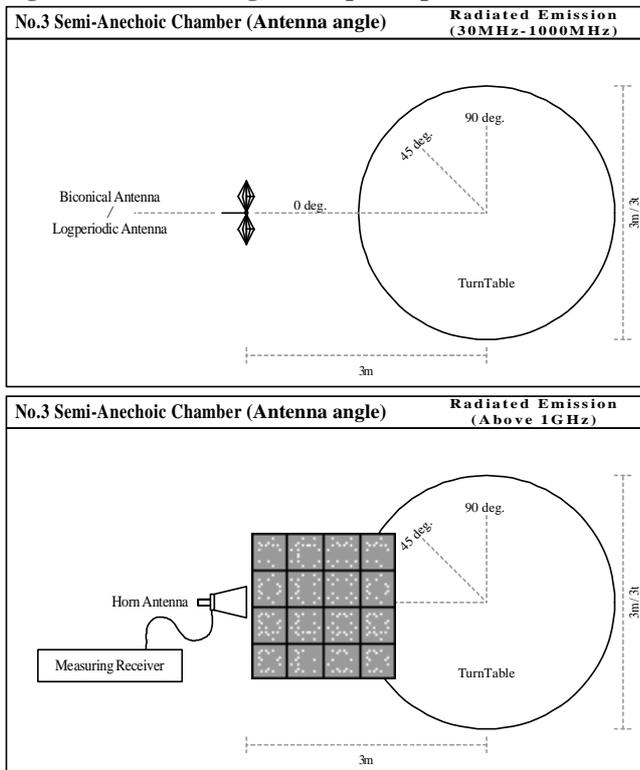
Facsimile : +81 463 50 6401

Figure 2. Direction of the Loop Antenna



Antenna was not rotated.

Figure 3. Antenna angle (except Loop antenna)



7.5 Results

Summary of the test results : Pass *No noise was detected in the 6th to 10th harmonics.
 Refer to APPENDIX 1

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Contents of APPENDIXES

APPENDIX 1: Test data

Conducted emission
Radiated emission (Fundamental & Spurious)
20dB bandwidth
99% Occupied bandwidth

APPENDIX 2: Test instruments

Test instruments

APPENDIX 3: Photographs of test setup

Conducted emission
Radiated emission

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DATA OF CONDUCTED EMISSION TEST

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Date : 2012/03/31

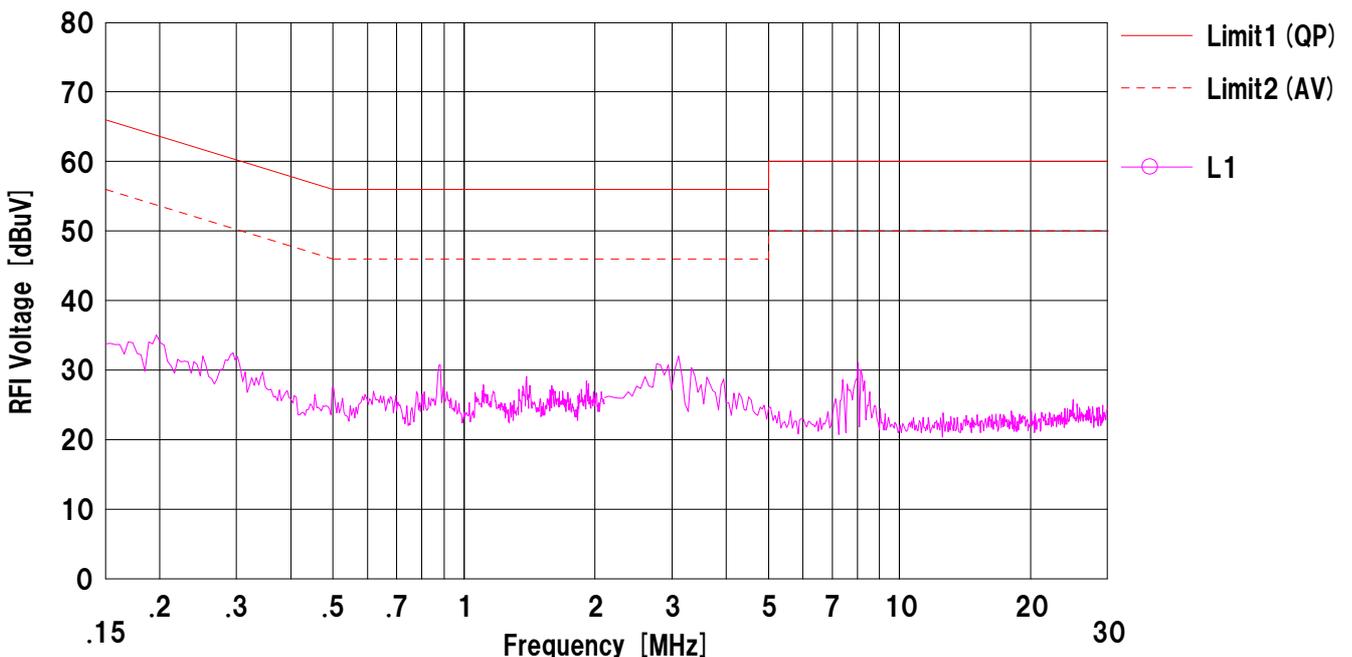
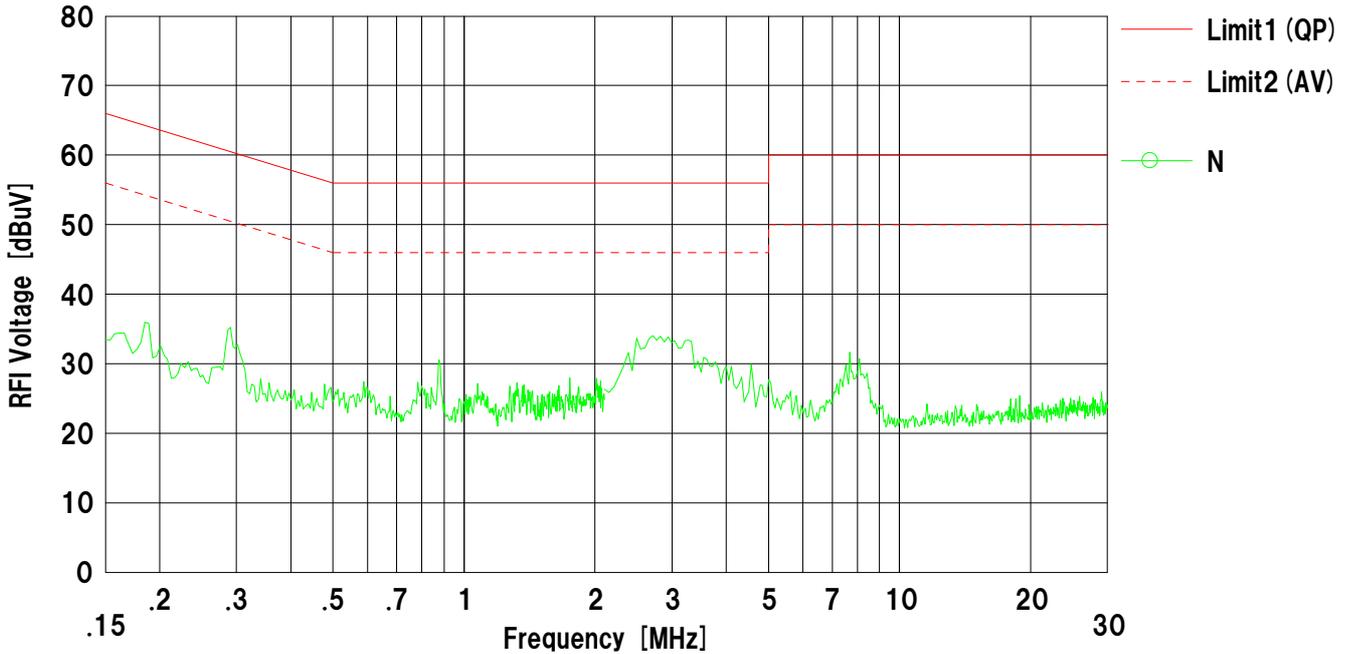
Company : Sony Corporation
Kind of EUT : RF Stereo Transmitter
Model No. : TMR-RF985R
Serial No. : 1

Mode : Transmitting 915.5MHz
Report No. : 32HE0108-SH-01-A
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 30%RH

Remarks : -

Limit1 : FCC 15C (15.207) QP
Limit2 : FCC 15C (15.207) AV

Engineer : Kenichi Adachi



Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+ATT) [dB]
LISN: SLS-02 with extended cable

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2012/03/31

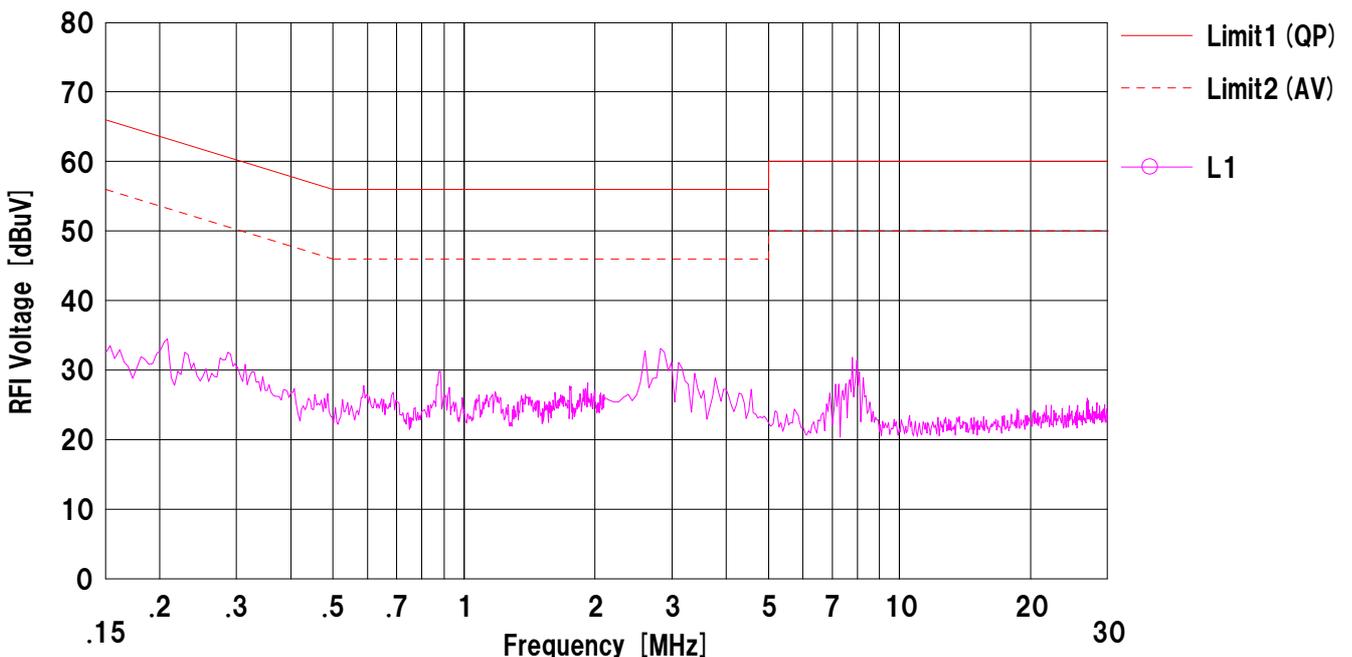
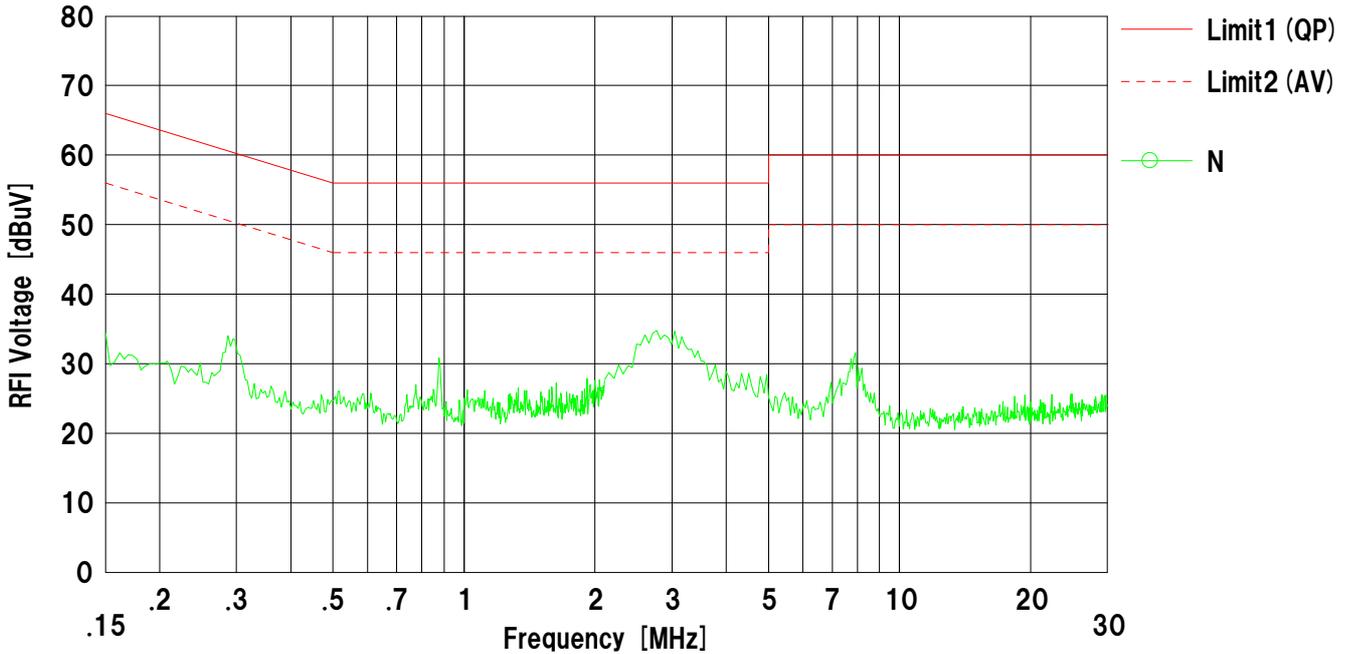
Company : Sony Corporation
Kind of EUT : RF Stereo Transmitter
Model No. : TMR-RF985R
Serial No. : 1

Mode : Transmitting 916.0MHz
Report No. : 32HE0108-SH-01-A
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 30%RH

Remarks : -

Limit1 : FCC 15C (15.207) QP
Limit2 : FCC 15C (15.207) AV

Engineer : Kenichi Adachi



Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+ATT) [dB]
LISN: SLS-02 with extended cable

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2012/03/31

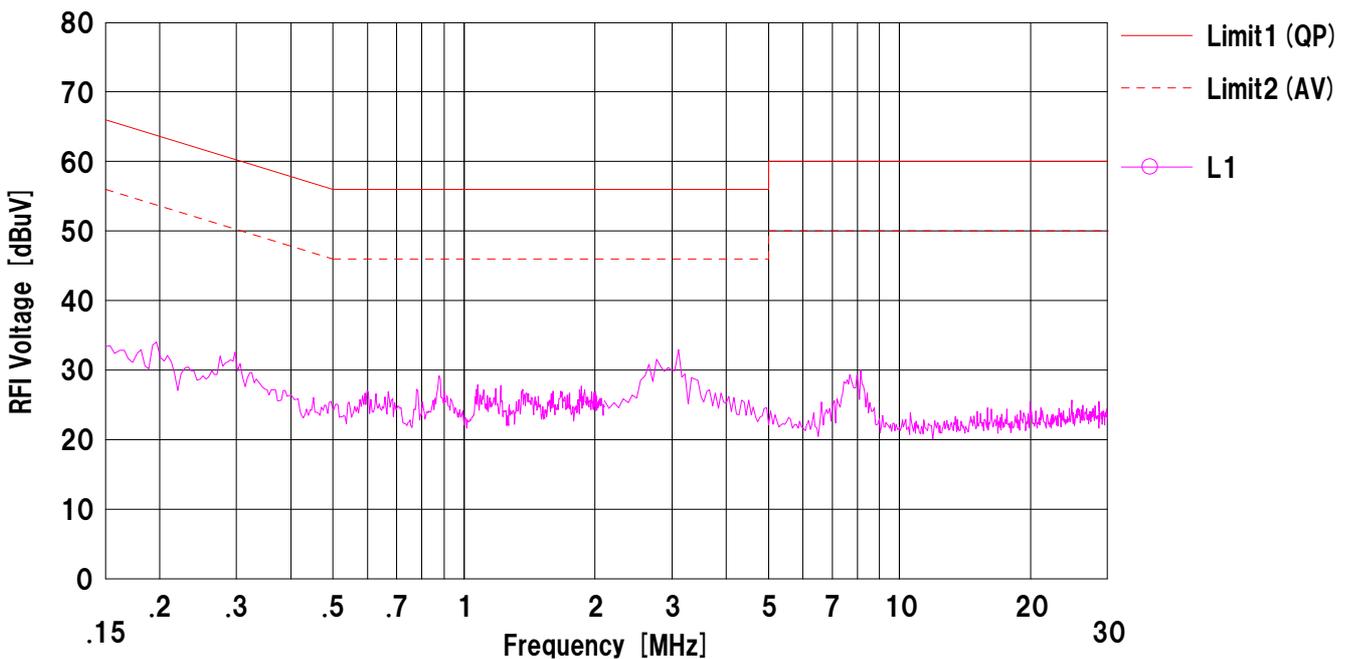
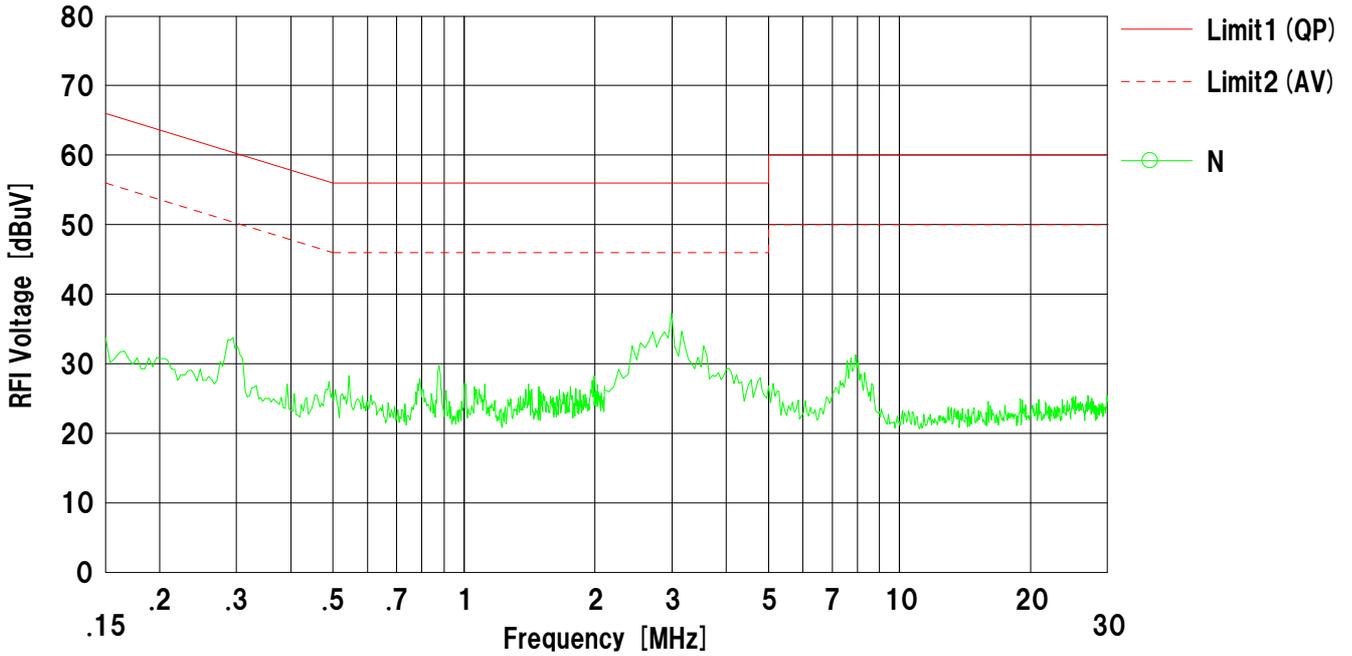
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Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 30%RH

Remarks : -

Limit1 : FCC 15C (15.207) QP
Limit2 : FCC 15C (15.207) AV

Engineer : Kenichi Adachi



Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+ATT) [dB]
LISN: SLS-02 with extended cable

DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2012/03/31

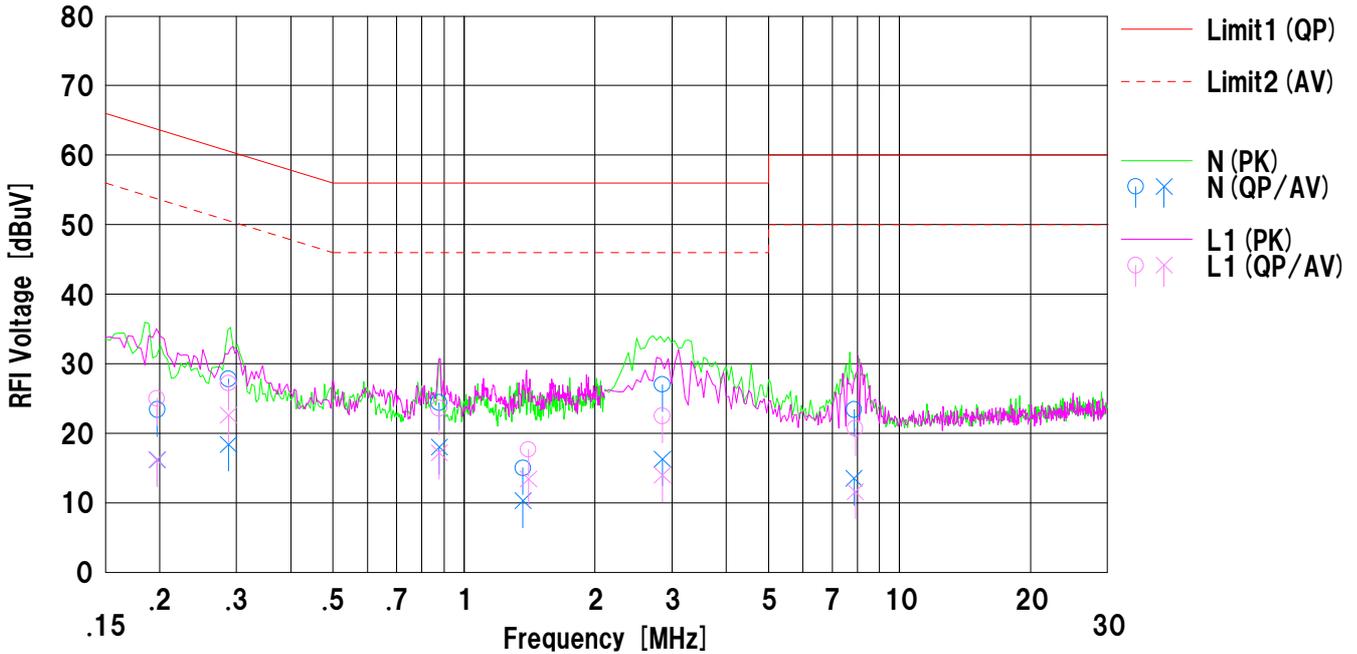
Company : Sony Corporation
Kind of EUT : RF Stereo Transmitter
Model No. : TMR-RF985R
Serial No. : 1

Mode : Transmitting 915.5MHz
Report No. : 32HE0108-SH-01-A
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 30%RH

Remarks : -

Limit1 : FCC 15C (15.207) QP
Limit2 : FCC 15C (15.207) AV

Engineer : Kenichi Adachi



| No. | Freq. [MHz] | Reading | | C.Fac [dB] | Results | | Limit | | Margin | | Phase | Comment |
|-----|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|--------------|--------------|-------|---------|
| | | <QP> [dBuV] | <AV> [dBuV] | | <QP> [dBuV] | <AV> [dBuV] | <QP> [dBuV] | <AV> [dBuV] | <QP> [dB] | <AV> [dB] | | |
| 1 | 0.19759 | 10.6 | 3.4 | 12.8 | 23.4 | 16.2 | 63.7 | 53.7 | 40.3 | 37.5 | N | |
| 2 | 0.28797 | 15.0 | 5.6 | 12.8 | 27.8 | 18.4 | 60.5 | 50.5 | 32.7 | 32.1 | N | |
| 3 | 0.87735 | 11.5 | 5.1 | 12.9 | 24.4 | 18.0 | 56.0 | 46.0 | 31.6 | 28.0 | N | |
| 4 | 1.36592 | 2.1 | -2.6 | 12.9 | 15.0 | 10.3 | 56.0 | 46.0 | 41.0 | 35.7 | N | |
| 5 | 2.85417 | 13.9 | 3.2 | 13.1 | 27.0 | 16.3 | 56.0 | 46.0 | 29.0 | 29.7 | N | |
| 6 | 7.87113 | 10.4 | 0.5 | 13.0 | 23.4 | 13.5 | 60.0 | 50.0 | 36.6 | 36.5 | N | |
| 7 | 0.19705 | 12.2 | 3.4 | 12.8 | 25.0 | 16.2 | 63.7 | 53.7 | 38.7 | 37.5 | L1 | |
| 8 | 0.28797 | 14.4 | 9.8 | 12.8 | 27.2 | 22.8 | 60.5 | 50.5 | 33.3 | 27.9 | L1 | |
| 9 | 0.87735 | 10.7 | 4.3 | 12.9 | 23.6 | 17.2 | 56.0 | 46.0 | 32.4 | 28.8 | L1 | |
| 10 | 1.40649 | 4.8 | 0.5 | 12.9 | 17.7 | 13.4 | 56.0 | 46.0 | 38.3 | 32.6 | L1 | |
| 11 | 2.85417 | 9.4 | 0.9 | 13.1 | 22.5 | 14.0 | 56.0 | 46.0 | 33.5 | 32.0 | L1 | |
| 12 | 7.91440 | 7.7 | -1.4 | 13.0 | 20.7 | 11.6 | 60.0 | 50.0 | 39.3 | 38.4 | L1 | |

DATA OF RADIATED EMISSION (below 30MHz) TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber
Date : 2012/03/30

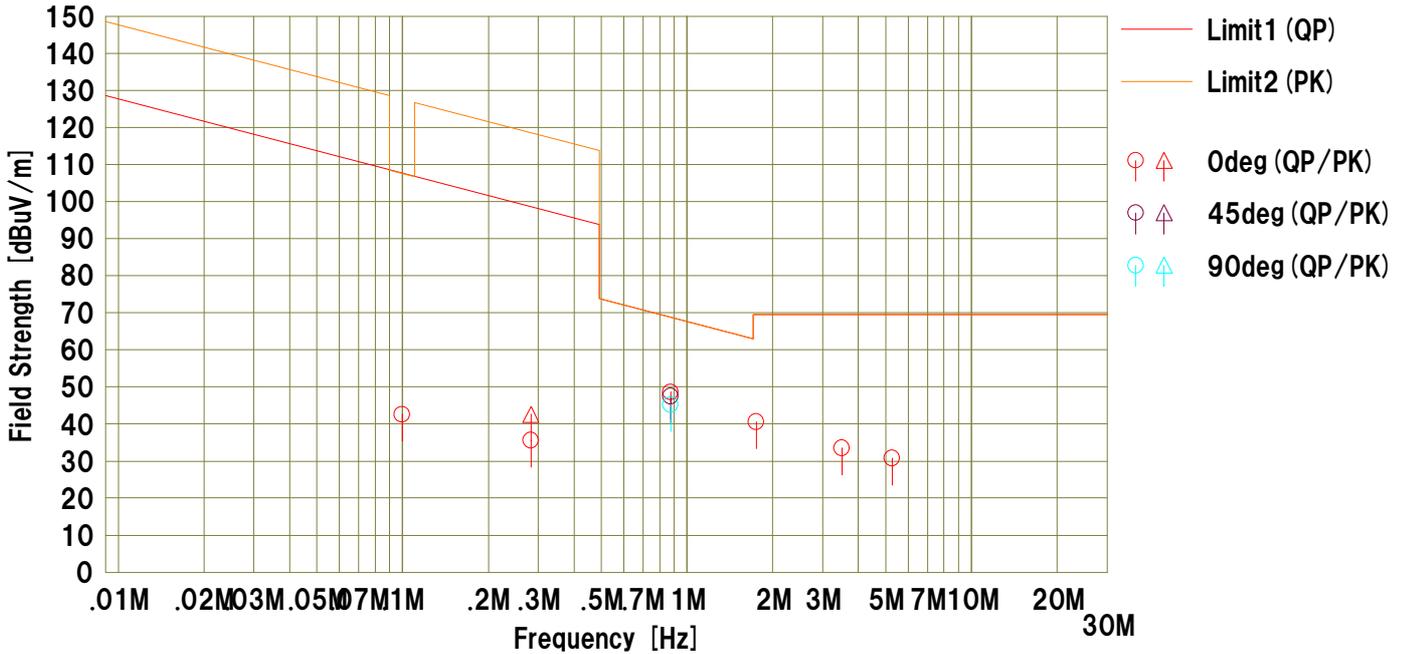
Company : Sony Corporation
Kind of EUT : RF Stereo Transmitter
Model No. : TMR-RF985R
Serial No. : 1

Mode : Transmitting 915.5MHz
Report No. : 32HE0108-SH-01-A
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 29%RH

Remarks : worst measurement antenna angle 0deg.

Limit1 : FCC15.209 (a) 3m, 9-90kHz:AV, 110-490kHz:AV, other:QP

Limit2 : FCC15.209 (a) 3m, 9-90kHz:PK, 110-490kHz:PK, Tested by : Kenichi Adachi



| No. | Freq. [MHz] | Reading | | Ant.Fac [dB/m] | Loss [dB] | Gain [dB] | Result | | Limit | | Margin | | Antenna [deg] | Table | Comment |
|-----|----------------|---------|--------|-------------------|--------------|--------------|----------|----------|-------|-------|--------|------|------------------|-------|------------------------|
| | | <QP> | <PK> | | | | <QP> | <PK> | <QP> | <PK> | | | | | |
| | | [dBuV] | [dBuV] | | | | [dBuV/m] | [dBuV/m] | [dB] | [dB] | | | | | |
| 1 | 0.09958 | 48.2 | --- | 20.0 | 5.9 | 31.5 | 42.6 | --- | 107.6 | 107.5 | 65.0 | --- | 0deg | 299 | PK49.1, QP46.2, AV42.1 |
| 2 | 0.28282 | 42.1 | 49.1 | 19.8 | 5.9 | 32.2 | 35.6 | 42.6 | 98.5 | 118.5 | 62.9 | 75.9 | 0deg | 289 | |
| 3 | 0.87511 | 55.3 | --- | 19.6 | 5.9 | 32.2 | 48.6 | --- | 68.7 | 68.7 | 20.1 | --- | 0deg | 90 | |
| 4 | 1.75103 | 47.2 | --- | 19.6 | 6.0 | 32.2 | 40.6 | --- | 69.5 | 69.5 | 28.9 | --- | 0deg | 85 | |
| 5 | 3.50198 | 40.1 | --- | 19.6 | 6.0 | 32.2 | 33.5 | --- | 69.5 | 69.5 | 36.0 | --- | 0deg | 256 | |
| 6 | 5.25296 | 37.3 | --- | 19.6 | 6.1 | 32.2 | 30.8 | --- | 69.5 | 69.5 | 38.7 | --- | 0deg | 251 | |
| 7 | 0.87511 | 54.2 | --- | 19.6 | 5.9 | 32.2 | 47.5 | --- | 68.7 | 68.7 | 21.2 | --- | 45deg | 228 | |
| 8 | 0.87511 | 51.9 | --- | 19.6 | 5.9 | 32.2 | 45.2 | --- | 68.7 | 68.7 | 23.5 | --- | 90deg | 178 | |

DATA OF RADIATED EMISSION (below 30MHz) TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber
Date : 2012/03/30

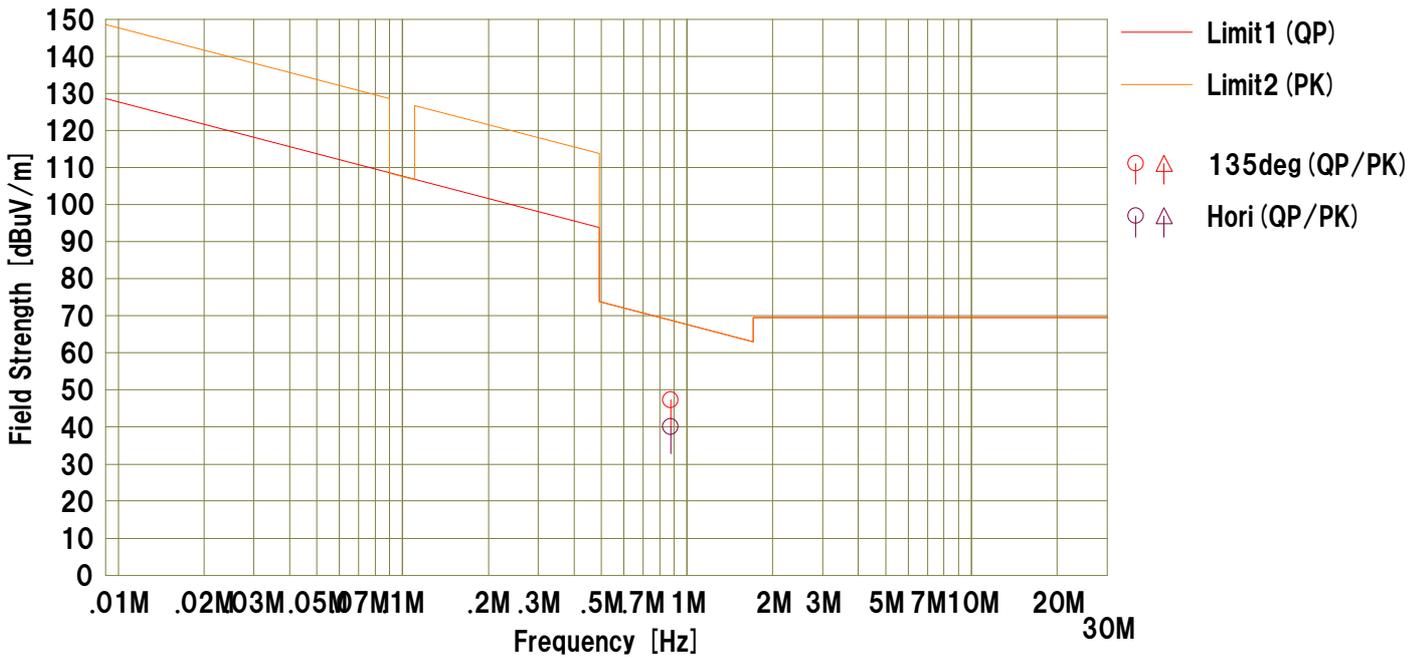
Company : Sony Corporation
Kind of EUT : RF Stereo Transmitter
Model No. : TMR-RF985R
Serial No. : 1

Mode : Transmitting 915.5MHz
Report No. : 32HE0108-SH-01-A
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 29%RH

Remarks : worst measurement antenna angle 0deg.

Limit1 : FCC15.209 (a) 3m, 9-90kHz:AV, 110-490kHz:AV, other:QP

Limit2 : FCC15.209 (a) 3m, 9-90kHz:PK, 110-490kHz:PK, Tested by : Kenichi Adachi



| No. | Freq. [MHz] | Reading | | Ant.Fac [dB/m] | Loss [dB] | Gain [dB] | Result | | Limit | | Margin | | Antenna | Table [deg] | Comment |
|-----|----------------|----------------|----------------|-------------------|--------------|--------------|------------------|------------------|------------------|------------------|--------------|--------------|---------|----------------|---------|
| | | <QP> [dBuV] | <PK> [dBuV] | | | | <QP> [dBuV/m] | <PK> [dBuV/m] | <QP> [dBuV/m] | <PK> [dBuV/m] | <QP> [dB] | <PK> [dB] | | | |
| 1 | 0.87511 | 54.0 | --- | 19.6 | 5.9 | 32.2 | 47.3 | --- | 68.7 | 68.7 | 21.4 | --- | 135deg | 121 | |
| 2 | 0.87511 | 46.8 | --- | 19.6 | 5.9 | 32.2 | 40.1 | --- | 68.7 | 68.7 | 28.6 | --- | Hori | 92 | |

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber
Date : 2012/03/13

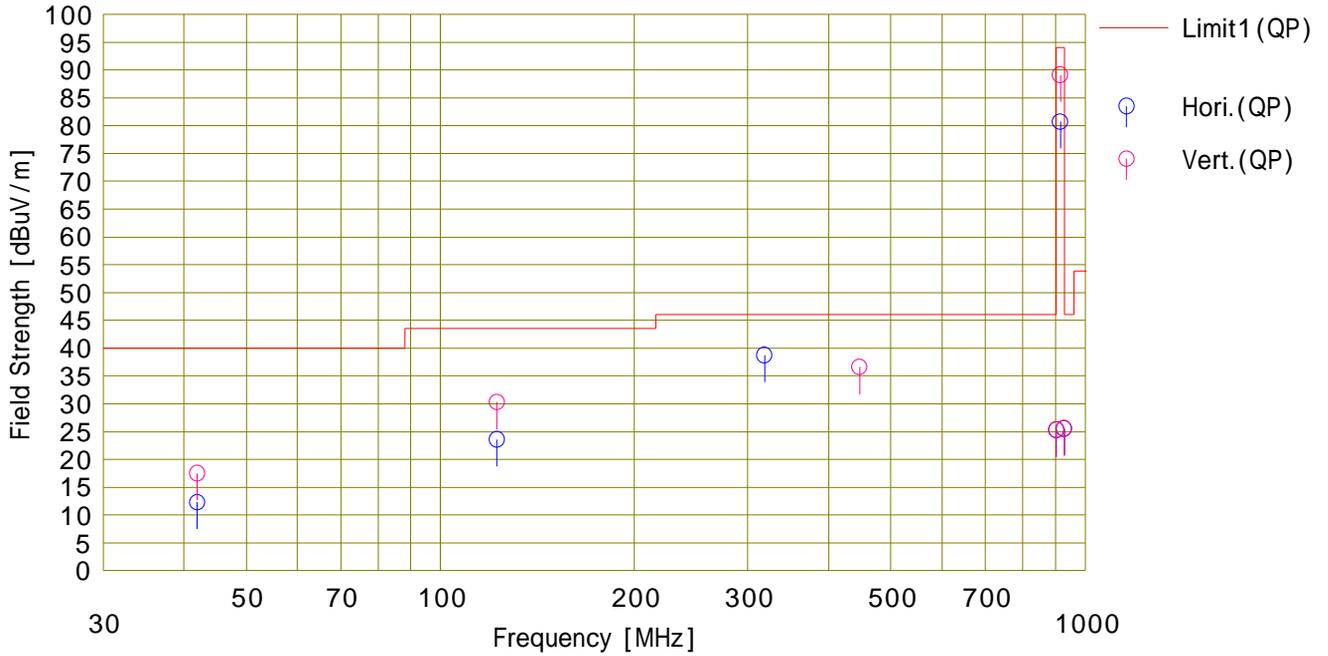
Company : Sony Corporation
Kind of EUT : RF Stereo Transmitter
Model No. : TMR-RF985R
Serial No. : 1

Mode : Transmitting 915.5MHz
Report No. : 32HE0108-SH-01-A
Power : AC 120V / 60Hz
Temp./Humi. : 21deg.C / 30%RH

Remarks : -

Limit1 : FCC15_249(a)_below1GHz:QP

Engineer : Kenichi Adachi



| No. | Freq. [MHz] | Reading | Ant.Fac [dB/m] | Loss [dB] | Gain [dB] | Result | Limit | Margin | Pola. [H/V] | Height [cm] | Angle [deg] | Ant. Type | Comment |
|-----|----------------|----------------|-------------------|--------------|--------------|------------------|--------------|--------|----------------|----------------|----------------|--------------|---------|
| | | <QP> [dBuV] | | | | <QP> [dBuV/m] | <QP> [dB] | | | | | | |
| 1 | 41.981 | 24.2 | 13.5 | 6.7 | 32.1 | 12.3 | 40.0 | 27.7 | Hori. | 318 | 210 | BC | |
| 2 | 122.339 | 35.6 | 12.9 | 7.2 | 32.1 | 23.6 | 43.5 | 19.9 | Hori. | 345 | 3 | BC | |
| 3 | 318.217 | 47.4 | 14.4 | 8.8 | 31.9 | 38.7 | 46.0 | 7.3 | Hori. | 100 | 85 | LP | |
| 4 | 902.000 | 23.0 | 22.5 | 10.7 | 30.9 | 25.3 | 46.0 | 20.7 | Hori. | 124 | 305 | LP | |
| 5 | 915.487 | 78.2 | 22.6 | 10.7 | 30.8 | 80.7 | 94.0 | 13.3 | Hori. | 124 | 305 | LP | carrier |
| 6 | 928.000 | 22.8 | 22.7 | 10.8 | 30.8 | 25.5 | 46.0 | 20.5 | Hori. | 124 | 305 | LP | |
| 7 | 41.970 | 29.4 | 13.5 | 6.7 | 32.1 | 17.5 | 40.0 | 22.5 | Vert. | 100 | 175 | BC | |
| 8 | 122.339 | 42.3 | 12.9 | 7.2 | 32.1 | 30.3 | 43.5 | 13.2 | Vert. | 100 | 82 | BC | |
| 9 | 446.814 | 42.2 | 17.0 | 9.3 | 31.9 | 36.6 | 46.0 | 9.4 | Vert. | 117 | 249 | LP | |
| 10 | 902.000 | 23.0 | 22.5 | 10.7 | 30.9 | 25.3 | 46.0 | 20.7 | Vert. | 100 | 317 | LP | |
| 11 | 915.487 | 86.6 | 22.6 | 10.7 | 30.8 | 89.1 | 94.0 | 4.9 | Vert. | 100 | 317 | LP | carrier |
| 12 | 928.000 | 22.8 | 22.7 | 10.8 | 30.8 | 25.5 | 46.0 | 20.5 | Vert. | 100 | 317 | LP | |

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber
Date : 2012/03/13

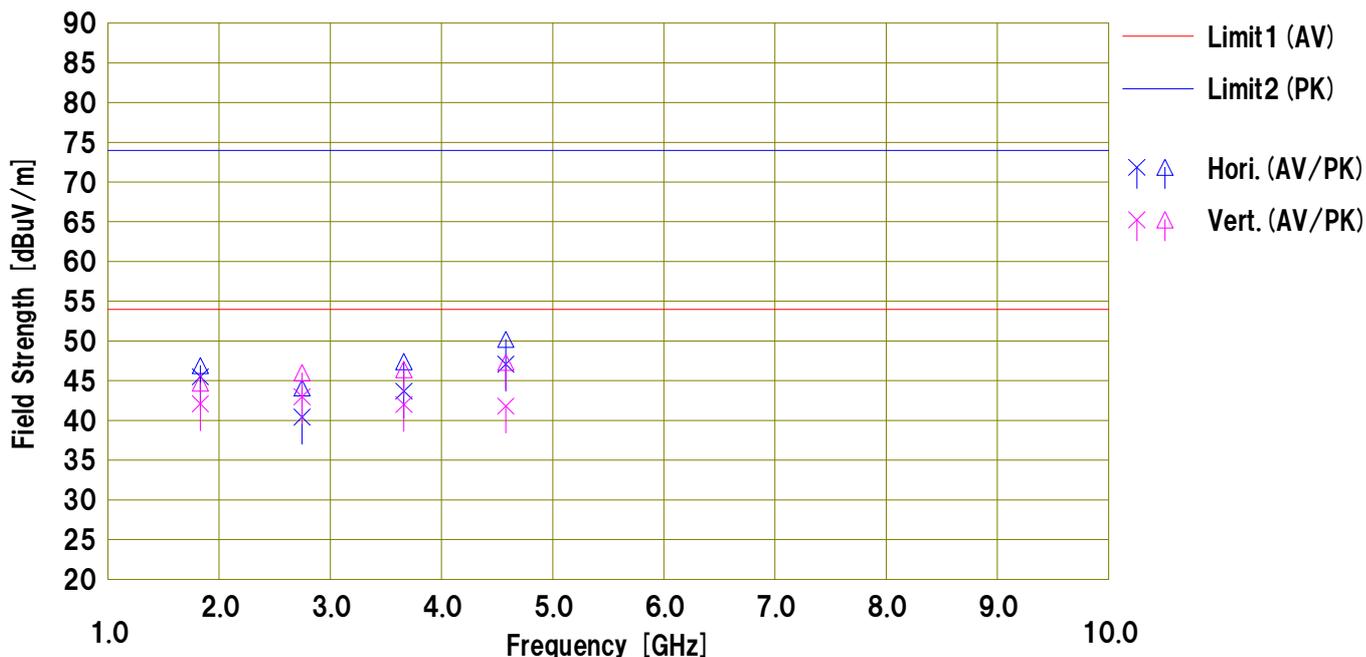
Company : Sony Corporation
Kind of EUT : RF Stereo Transmitter
Model No. : TMR-RF985R
Serial No. : 1

Mode : Transmitting 915.5MHz
Report No. : 32HE0108-SH-01-A
Power : AC 120V / 60Hz
Temp./Humi. : 22deg.C / 36%RH

Remarks : -

Limit1 : FCC15C_209 3m_above13GHz_1.0m_AV
Limit2 : FCC15C_209 3m_above13GHz_1.0m_PK

Engineer : Kenichi Adachi



| No. | Freq. [MHz] | Reading | | Ant.Fac [dB/m] | Loss [dB] | Gain [dB] | Result | | Limit | | Margin | | Pola. [H/V] | Height [cm] | Angle [deg] | Ant. Type | Comment |
|-----|----------------|----------------|----------------|-------------------|--------------|--------------|------------------|------------------|------------------|------------------|--------------|--------------|----------------|----------------|----------------|--------------|---------|
| | | <AV> [dBuV] | <PK> [dBuV] | | | | <AV> [dBuV/m] | <PK> [dBuV/m] | <AV> [dBuV/m] | <PK> [dBuV/m] | <AV> [dB] | <PK> [dB] | | | | | |
| 1 | 1831.000 | 56.9 | 58.3 | 25.8 | 3.8 | 41.0 | 45.5 | 46.9 | 53.9 | 73.9 | 8.4 | 27.0 | Hori. | 100 | 108 | SHA03 | |
| 2 | 2746.500 | 48.7 | 52.4 | 28.1 | 4.8 | 41.2 | 40.4 | 44.1 | 53.9 | 73.9 | 13.5 | 29.8 | Hori. | 148 | 336 | SHA03 | |
| 3 | 3662.000 | 50.6 | 54.3 | 29.6 | 5.2 | 41.7 | 43.7 | 47.4 | 53.9 | 73.9 | 10.2 | 26.5 | Hori. | 141 | 60 | SHA03 | |
| 4 | 4577.500 | 52.2 | 55.3 | 30.6 | 5.7 | 41.4 | 47.1 | 50.2 | 53.9 | 73.9 | 6.8 | 23.7 | Hori. | 133 | 247 | SHA03 | |
| 5 | 1831.000 | 53.5 | 56.1 | 25.8 | 3.8 | 41.0 | 42.1 | 44.7 | 53.9 | 73.9 | 11.8 | 29.2 | Vert. | 108 | 174 | SHA03 | |
| 6 | 2746.500 | 51.3 | 54.3 | 28.1 | 4.8 | 41.2 | 43.0 | 46.0 | 53.9 | 73.9 | 10.9 | 27.9 | Vert. | 100 | 348 | SHA03 | |
| 7 | 3662.000 | 48.9 | 53.3 | 29.6 | 5.2 | 41.7 | 42.0 | 46.4 | 53.9 | 73.9 | 11.9 | 27.5 | Vert. | 100 | 96 | SHA03 | |
| 8 | 4577.500 | 46.9 | 52.4 | 30.6 | 5.7 | 41.4 | 41.8 | 47.3 | 53.9 | 73.9 | 12.1 | 26.6 | Vert. | 100 | 88 | SHA03 | |

DATA OF RADIATED EMISSION (below 30MHz) TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber
Date : 2012/03/30

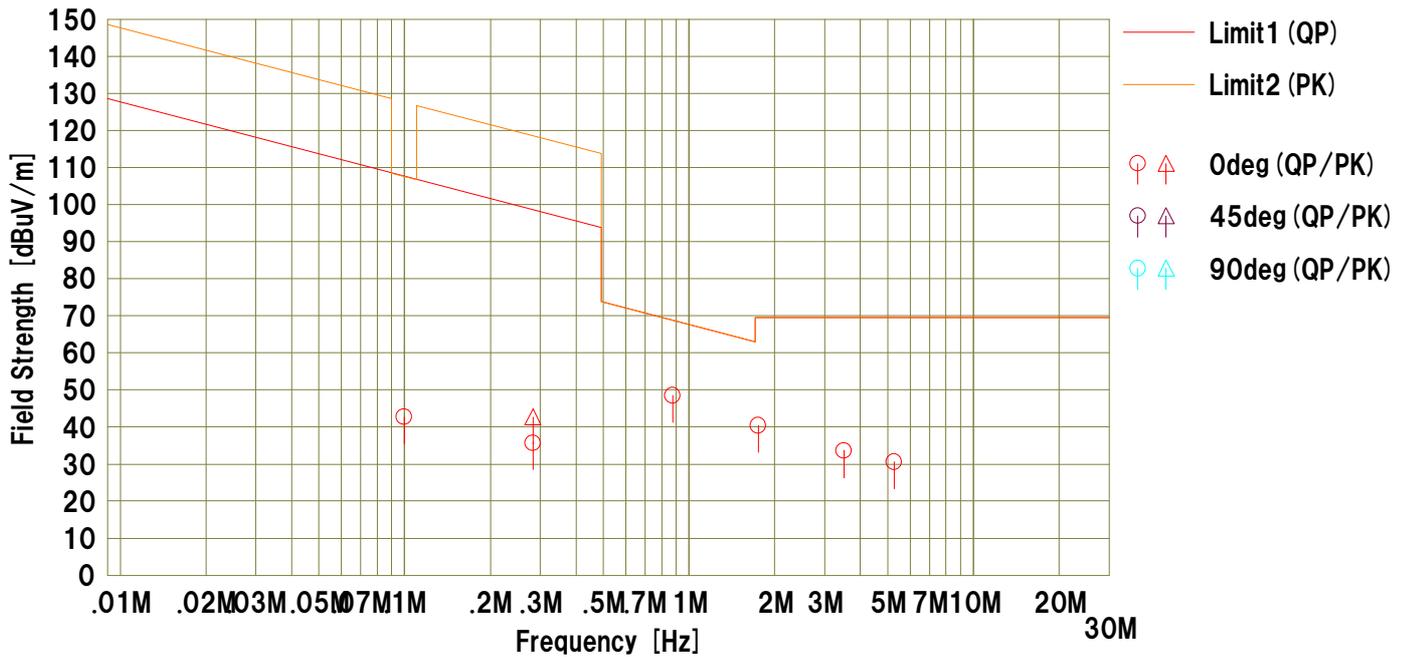
Company : Sony Corporation
Kind of EUT : RF Stereo Transmitter
Model No. : TMR-RF985R
Serial No. : 1

Mode : Transmitting 916.0MHz
Report No. : 32HE0108-SH-01-A
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 29%RH

Remarks : worst measurement antenna angle 0deg.

Limit1 : FCC15.209 (a) 3m, 9-90kHz:AV, 110-490kHz:AV, other:QP

Limit2 : FCC15.209 (a) 3m, 9-90kHz:PK, 110-490kHz:PK, Tested by : Kenichi Adachi



| No. | Freq. [MHz] | Reading | | Ant.Fac [dB/m] | Loss [dB] | Gain [dB] | Result | | Limit | | Margin | | Antenna | Table [deg] | Comment |
|-----|----------------|----------------|----------------|-------------------|--------------|--------------|------------------|------------------|------------------|------------------|--------------|--------------|---------|----------------|------------------------|
| | | <QP> [dBuV] | <PK> [dBuV] | | | | <QP> [dBuV/m] | <PK> [dBuV/m] | <QP> [dBuV/m] | <PK> [dBuV/m] | <QP> [dB] | <PK> [dB] | | | |
| 1 | 0.09957 | 48.3 | --- | 20.0 | 5.9 | 31.5 | 42.7 | --- | 107.6 | 107.5 | 64.9 | --- | Odeg | 301 | |
| 2 | 0.28281 | 42.2 | 49.2 | 19.8 | 5.9 | 32.2 | 35.7 | 42.7 | 98.5 | 118.5 | 62.8 | 75.8 | Odeg | 290 | PK49.2, QP46.3, AV42.2 |
| 3 | 0.87512 | 55.2 | --- | 19.6 | 5.9 | 32.2 | 48.5 | --- | 68.7 | 68.7 | 20.2 | --- | Odeg | 91 | |
| 4 | 1.75102 | 47.0 | --- | 19.6 | 6.0 | 32.2 | 40.4 | --- | 69.5 | 69.5 | 29.1 | --- | Odeg | 87 | |
| 5 | 3.50197 | 40.2 | --- | 19.6 | 6.0 | 32.2 | 33.6 | --- | 69.5 | 69.5 | 35.9 | --- | Odeg | 254 | |
| 6 | 5.25298 | 37.1 | --- | 19.6 | 6.1 | 32.2 | 30.6 | --- | 69.5 | 69.5 | 38.9 | --- | Odeg | 249 | |

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber
Date : 2012/03/13

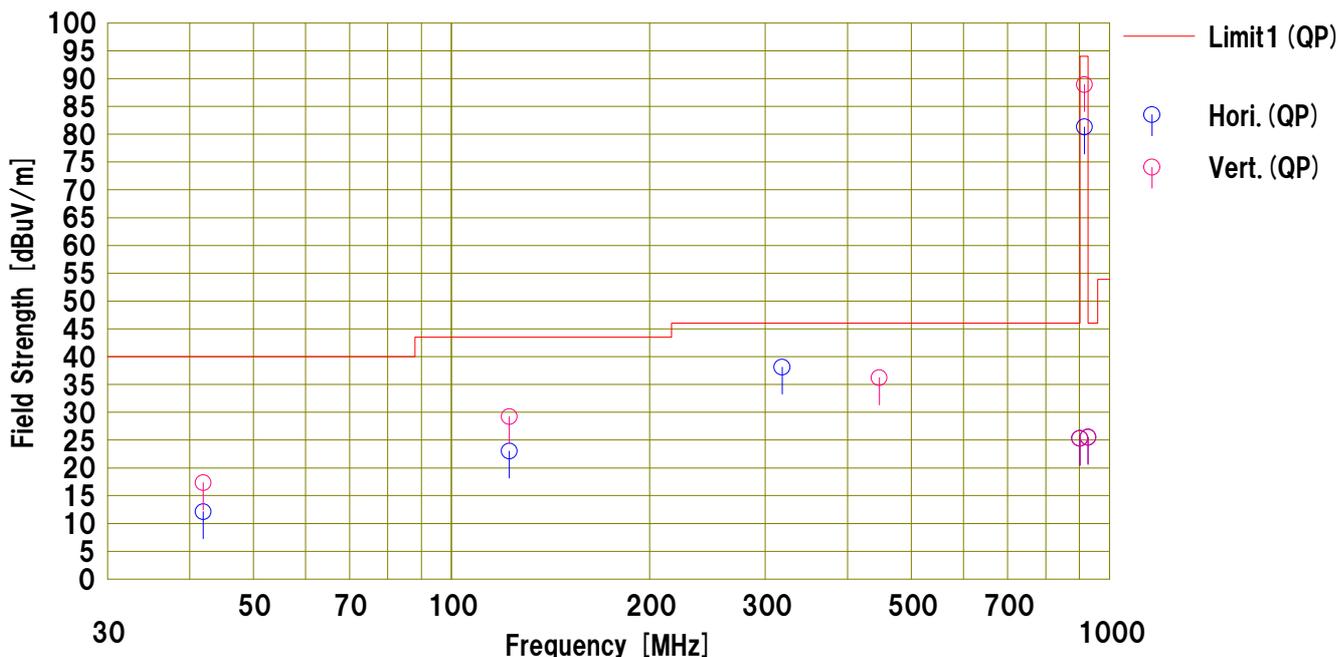
Company : Sony Corporation
Kind of EUT : RF Stereo Transmitter
Model No. : TMR-RF985R
Serial No. : 1

Mode : Transmitting 916.0MHz
Report No. : 32HE0108-SH-01-A
Power : AC 120V / 60Hz
Temp./Humi. : 21deg.C / 30%RH

Remarks : -

Limit1 : FCC15_249 (a)_below1GHz:QP

Engineer : Kenichi Adachi



| No. | Freq. [MHz] | Reading | Ant.Fac [dB/m] | Loss [dB] | Gain [dB] | Result | Limit | Margin | Pola. [H/V] | Height [cm] | Angle [deg] | Ant. Type | Comment |
|-----|----------------|----------------|-------------------|--------------|--------------|------------------|--------------|--------|----------------|----------------|----------------|--------------|---------|
| | | <QP> [dBuV] | | | | <QP> [dBuV/m] | <QP> [dB] | | | | | | |
| 1 | 41.978 | 24.0 | 13.5 | 6.7 | 32.1 | 12.1 | 40.0 | 27.9 | Hori. | 311 | 221 | BC | |
| 2 | 122.469 | 34.9 | 13.0 | 7.2 | 32.1 | 23.0 | 43.5 | 20.5 | Hori. | 341 | 2 | BC | |
| 3 | 318.219 | 46.8 | 14.4 | 8.8 | 31.9 | 38.1 | 46.0 | 7.9 | Hori. | 100 | 83 | LP | |
| 4 | 902.000 | 23.0 | 22.5 | 10.7 | 30.9 | 25.3 | 46.0 | 20.7 | Hori. | 127 | 302 | LP | |
| 5 | 915.968 | 78.8 | 22.6 | 10.7 | 30.8 | 81.3 | 94.0 | 12.7 | Hori. | 127 | 302 | LP | carrier |
| 6 | 928.000 | 22.8 | 22.7 | 10.8 | 30.8 | 25.5 | 46.0 | 20.5 | Hori. | 127 | 302 | LP | |
| 7 | 41.973 | 29.2 | 13.5 | 6.7 | 32.1 | 17.3 | 40.0 | 22.7 | Vert. | 100 | 178 | BC | |
| 8 | 122.469 | 41.1 | 13.0 | 7.2 | 32.1 | 29.2 | 43.5 | 14.3 | Vert. | 100 | 76 | BC | |
| 9 | 446.821 | 41.8 | 17.0 | 9.3 | 31.9 | 36.2 | 46.0 | 9.8 | Vert. | 119 | 252 | LP | |
| 10 | 902.000 | 23.0 | 22.5 | 10.7 | 30.9 | 25.3 | 46.0 | 20.7 | Vert. | 100 | 316 | LP | |
| 11 | 915.968 | 86.4 | 22.6 | 10.7 | 30.8 | 88.9 | 94.0 | 5.1 | Vert. | 100 | 316 | LP | carrier |
| 12 | 928.000 | 22.8 | 22.7 | 10.8 | 30.8 | 25.5 | 46.0 | 20.5 | Vert. | 100 | 316 | LP | |

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber
Date : 2012/03/13

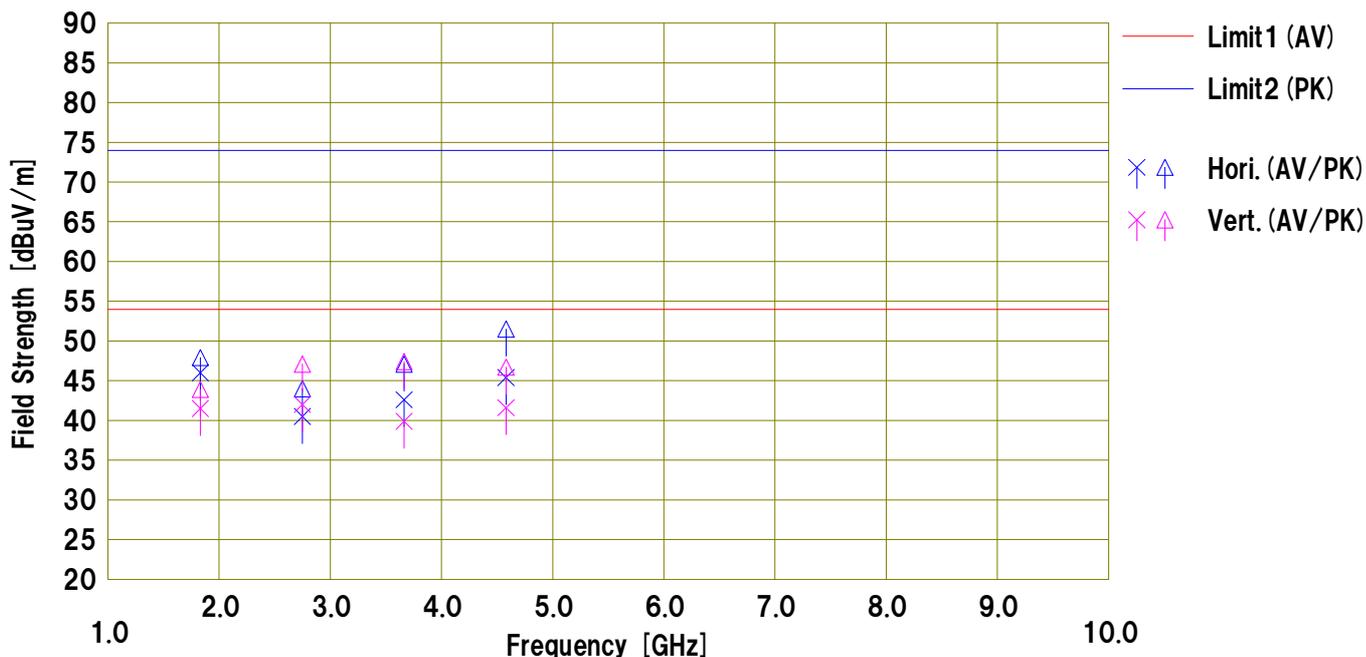
Company : Sony Corporation
Kind of EUT : RF Stereo Transmitter
Model No. : TMR-RF985R
Serial No. : 1

Mode : Transmitting 916.0MHz
Report No. : 32HE0108-SH-01-A
Power : AC 120V / 60Hz
Temp./Humi. : 22deg.C / 36%RH

Remarks : -

Limit1 : FCC15C_209 3m_above13GHz_1.0m_AV
Limit2 : FCC15C_209 3m_above13GHz_1.0m_PK

Engineer : Kenichi Adachi



| No. | Freq. [MHz] | Reading | | Ant.Fac [dB/m] | Loss [dB] | Gain [dB] | Result | | Limit | | Margin | | Pola. [H/V] | Height [cm] | Angle [deg] | Ant. Type | Comment |
|-----|----------------|----------------|----------------|-------------------|--------------|--------------|------------------|------------------|------------------|------------------|--------------|--------------|----------------|----------------|----------------|--------------|---------|
| | | <AV> [dBuV] | <PK> [dBuV] | | | | <AV> [dBuV/m] | <PK> [dBuV/m] | <AV> [dBuV/m] | <PK> [dBuV/m] | <AV> [dB] | <PK> [dB] | | | | | |
| 1 | 1832.000 | 57.4 | 59.3 | 25.8 | 3.8 | 41.0 | 46.0 | 47.9 | 53.9 | 73.9 | 7.9 | 26.0 | Hori. | 100 | 111 | SHA03 | |
| 2 | 2748.000 | 48.8 | 52.3 | 28.1 | 4.8 | 41.2 | 40.5 | 44.0 | 53.9 | 73.9 | 13.4 | 29.9 | Hori. | 173 | 341 | SHA03 | |
| 3 | 3664.000 | 49.5 | 54.0 | 29.6 | 5.2 | 41.7 | 42.6 | 47.1 | 53.9 | 73.9 | 11.3 | 26.8 | Hori. | 100 | 80 | SHA03 | |
| 4 | 4580.000 | 50.5 | 56.6 | 30.6 | 5.7 | 41.4 | 45.4 | 51.5 | 53.9 | 73.9 | 8.5 | 22.4 | Hori. | 100 | 232 | SHA03 | |
| 5 | 1832.000 | 52.9 | 55.3 | 25.8 | 3.8 | 41.0 | 41.5 | 43.9 | 53.9 | 73.9 | 12.4 | 30.0 | Vert. | 106 | 171 | SHA03 | |
| 6 | 2748.000 | 50.3 | 55.4 | 28.1 | 4.8 | 41.2 | 42.0 | 47.1 | 53.9 | 73.9 | 11.9 | 26.8 | Vert. | 101 | 331 | SHA03 | |
| 7 | 3664.000 | 46.8 | 54.3 | 29.6 | 5.2 | 41.7 | 39.9 | 47.4 | 53.9 | 73.9 | 14.0 | 26.5 | Vert. | 100 | 93 | SHA03 | |
| 8 | 4580.000 | 46.7 | 51.8 | 30.6 | 5.7 | 41.4 | 41.6 | 46.7 | 53.9 | 73.9 | 12.3 | 27.2 | Vert. | 100 | 88 | SHA03 | |

DATA OF RADIATED EMISSION (below 30MHz) TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber
Date : 2012/03/30

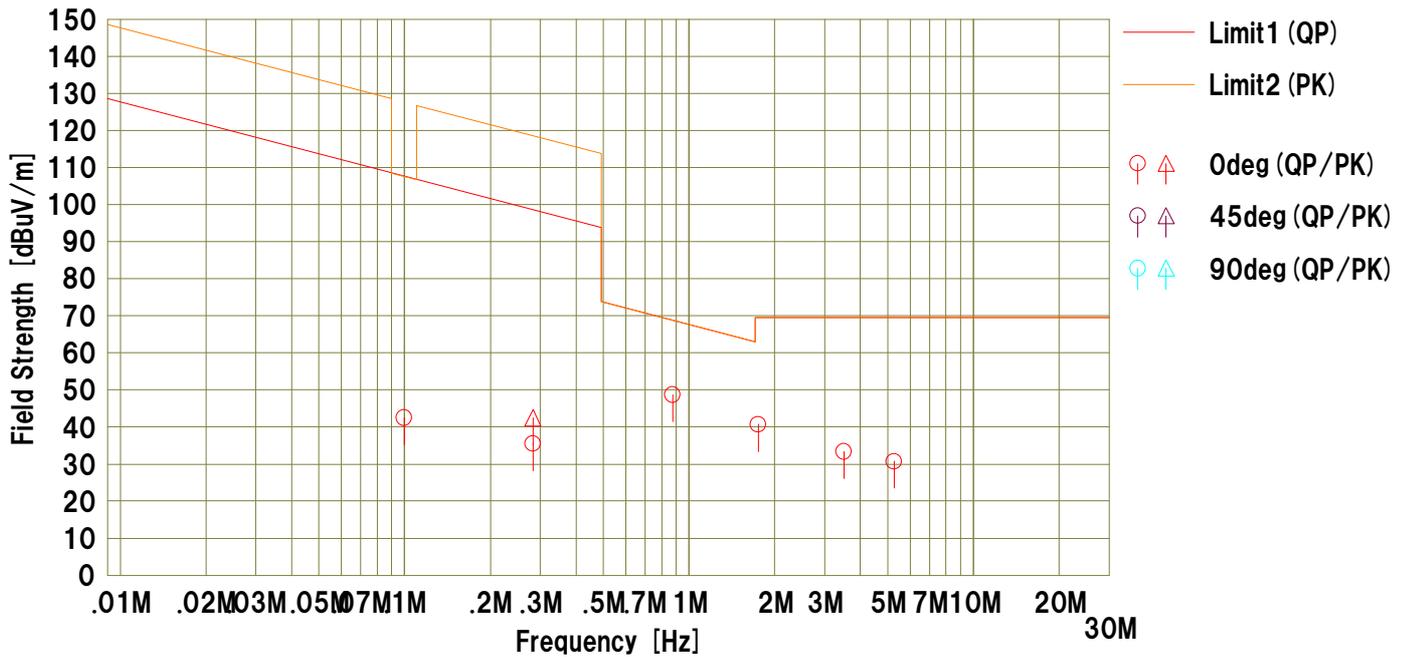
Company : Sony Corporation
Kind of EUT : RF Stereo Transmitter
Model No. : TMR-RF985R
Serial No. : 1

Mode : Transmitting 916.5MHz
Report No. : 32HE0108-SH-01-A
Power : AC 120V / 60Hz
Temp./Humi. : 24deg.C / 29%RH

Remarks : worst measurement antenna angle 0deg.

Limit1 : FCC15.209 (a) 3m, 9-90kHz:AV, 110-490kHz:AV, other:QP

Limit2 : FCC15.209 (a) 3m, 9-90kHz:PK, 110-490kHz:PK, Tested by : Kenichi Adachi



| No. | Freq. [MHz] | Reading | | Ant.Fac [dB/m] | Loss [dB] | Gain [dB] | Result | | Limit | | Margin | | Antenna | Table [deg] | Comment |
|-----|----------------|---------|--------|-------------------|--------------|--------------|----------|----------|----------|----------|--------|------|---------|----------------|------------------------|
| | | <QP> | <PK> | | | | <QP> | <PK> | <QP> | <PK> | <QP> | <PK> | | | |
| | | [dBuV] | [dBuV] | | | | [dBuV/m] | [dBuV/m] | [dBuV/m] | [dBuV/m] | [dB] | [dB] | | | |
| 1 | 0.09959 | 48.1 | --- | 20.0 | 5.9 | 31.5 | 42.5 | --- | 107.6 | 107.5 | 65.1 | --- | Odeg | 297 | PK49.0, QP46.1, AV42.0 |
| 2 | 0.28280 | 42.0 | 49.0 | 19.8 | 5.9 | 32.2 | 35.5 | 42.5 | 98.5 | 118.5 | 63.0 | 76.0 | Odeg | 288 | |
| 3 | 0.87513 | 55.4 | --- | 19.6 | 5.9 | 32.2 | 48.7 | --- | 68.7 | 68.7 | 20.0 | --- | Odeg | 89 | |
| 4 | 1.75104 | 47.3 | --- | 19.6 | 6.0 | 32.2 | 40.7 | --- | 69.5 | 69.5 | 28.8 | --- | Odeg | 86 | |
| 5 | 3.50202 | 40.0 | --- | 19.6 | 6.0 | 32.2 | 33.4 | --- | 69.5 | 69.5 | 36.1 | --- | Odeg | 259 | |
| 6 | 5.25294 | 37.2 | --- | 19.6 | 6.1 | 32.2 | 30.7 | --- | 69.5 | 69.5 | 38.8 | --- | Odeg | 253 | |

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber
Date : 2012/03/13

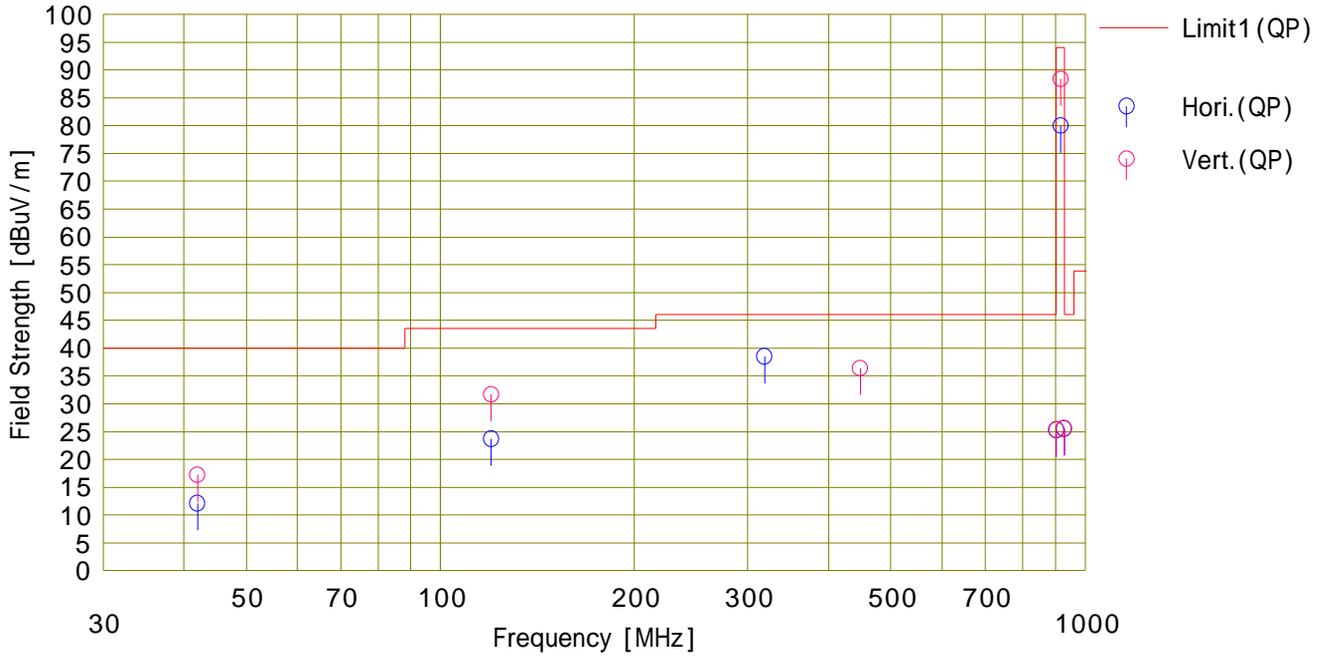
Company : Sony Corporation
Kind of EUT : RF Stereo Transmitter
Model No. : TMR-RF985R
Serial No. : 1

Mode : Transmitting 916.5MHz
Report No. : 32HE0108-SH-01-A
Power : AC 120V / 60Hz
Temp./Humi. : 21deg.C / 30%RH

Remarks : -

Limit1 : FCC15_249(a)_below1GHz:QP

Engineer : Kenichi Adachi



| No. | Freq. [MHz] | Reading | Ant.Fac [dB/m] | Loss [dB] | Gain [dB] | Result | Limit | Margin | Pola. [H/V] | Height [cm] | Angle [deg] | Ant. Type | Comment |
|-----|----------------|----------------|-------------------|--------------|--------------|------------------|--------------|--------|----------------|----------------|----------------|--------------|---------|
| | | <QP> [dBuV] | | | | <QP> [dBuV/m] | <QP> [dB] | | | | | | |
| 1 | 41.987 | 24.0 | 13.5 | 6.7 | 32.1 | 12.1 | 40.0 | 27.9 | Hori. | 313 | 224 | BC | |
| 2 | 119.876 | 35.9 | 12.7 | 7.2 | 32.1 | 23.7 | 43.5 | 19.8 | Hori. | 337 | 3 | BC | |
| 3 | 318.519 | 47.2 | 14.4 | 8.8 | 31.9 | 38.5 | 46.0 | 7.5 | Hori. | 100 | 79 | LP | |
| 4 | 902.000 | 23.0 | 22.5 | 10.7 | 30.9 | 25.3 | 46.0 | 20.7 | Hori. | 122 | 301 | LP | |
| 5 | 916.498 | 77.5 | 22.6 | 10.7 | 30.8 | 80.0 | 94.0 | 14.0 | Hori. | 122 | 301 | LP | carrier |
| 6 | 928.000 | 22.8 | 22.7 | 10.8 | 30.8 | 25.5 | 46.0 | 20.5 | Hori. | 122 | 301 | LP | |
| 7 | 41.987 | 29.1 | 13.5 | 6.7 | 32.1 | 17.2 | 40.0 | 22.8 | Vert. | 100 | 177 | BC | |
| 8 | 119.876 | 43.9 | 12.7 | 7.2 | 32.1 | 31.7 | 43.5 | 11.8 | Vert. | 100 | 78 | BC | |
| 9 | 447.988 | 41.9 | 17.0 | 9.4 | 31.9 | 36.4 | 46.0 | 9.6 | Vert. | 114 | 247 | LP | |
| 10 | 902.000 | 23.0 | 22.5 | 10.7 | 30.9 | 25.3 | 46.0 | 20.7 | Vert. | 100 | 315 | LP | |
| 11 | 916.498 | 85.9 | 22.6 | 10.7 | 30.8 | 88.4 | 94.0 | 5.6 | Vert. | 100 | 315 | LP | carrier |
| 12 | 928.000 | 22.8 | 22.7 | 10.8 | 30.8 | 25.5 | 46.0 | 20.5 | Vert. | 100 | 315 | LP | |

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber
Date : 2012/03/13

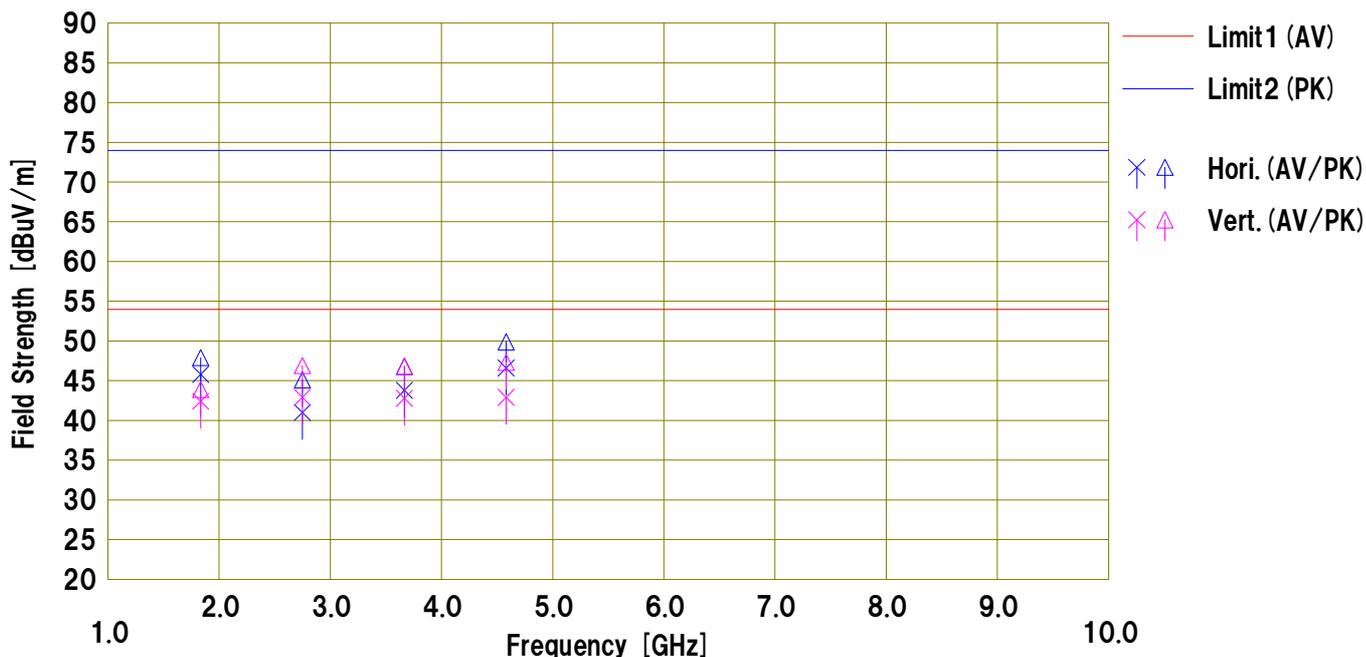
Company : Sony Corporation
Kind of EUT : RF Stereo Transmitter
Model No. : TMR-RF985R
Serial No. : 1

Mode : Transmitting 916.5MHz
Report No. : 32HE0108-SH-01-A
Power : AC 120V / 60Hz
Temp./Humi. : 22deg.C / 36%RH

Remarks : -

Limit1 : FCC15C_209 3m_above13GHz_1.0m_AV
Limit2 : FCC15C_209 3m_above13GHz_1.0m_PK

Engineer : Kenichi Adachi



| No. | Freq. [MHz] | Reading | | Ant.Fac [dB/m] | Loss [dB] | Gain [dB] | Result | | Limit | | Margin | | Pola. [H/V] | Height [cm] | Angle [deg] | Ant. Type | Comment |
|-----|----------------|----------------|----------------|-------------------|--------------|--------------|------------------|------------------|------------------|------------------|--------------|--------------|----------------|----------------|----------------|--------------|---------|
| | | <AV> [dBuV] | <PK> [dBuV] | | | | <AV> [dBuV/m] | <PK> [dBuV/m] | <AV> [dBuV/m] | <PK> [dBuV/m] | <AV> [dB] | <PK> [dB] | | | | | |
| 1 | 1833.000 | 57.2 | 59.3 | 25.8 | 3.8 | 41.0 | 45.8 | 47.9 | 53.9 | 73.9 | 8.1 | 26.0 | Hori. | 100 | 106 | SHA03 | |
| 2 | 2749.500 | 49.3 | 53.4 | 28.1 | 4.8 | 41.2 | 41.0 | 45.1 | 53.9 | 73.9 | 12.9 | 28.8 | Hori. | 156 | 339 | SHA03 | |
| 3 | 3666.000 | 50.7 | 53.7 | 29.6 | 5.2 | 41.7 | 43.8 | 46.8 | 53.9 | 73.9 | 10.1 | 27.1 | Hori. | 121 | 57 | SHA03 | |
| 4 | 4582.500 | 51.7 | 55.0 | 30.6 | 5.7 | 41.4 | 46.6 | 49.9 | 53.9 | 73.9 | 7.3 | 24.0 | Hori. | 122 | 241 | SHA03 | |
| 5 | 1833.000 | 53.8 | 55.3 | 25.8 | 3.8 | 41.0 | 42.4 | 43.9 | 53.9 | 73.9 | 11.5 | 30.0 | Vert. | 115 | 171 | SHA03 | |
| 6 | 2749.500 | 51.2 | 55.2 | 28.1 | 4.8 | 41.2 | 42.9 | 46.9 | 53.9 | 73.9 | 11.0 | 27.0 | Vert. | 100 | 4 | SHA03 | |
| 7 | 3666.000 | 49.7 | 53.7 | 29.6 | 5.2 | 41.7 | 42.8 | 46.8 | 53.9 | 73.9 | 11.1 | 27.1 | Vert. | 152 | 296 | SHA03 | |
| 8 | 4582.500 | 48.0 | 52.4 | 30.6 | 5.7 | 41.4 | 42.9 | 47.3 | 53.9 | 73.9 | 11.0 | 26.6 | Vert. | 100 | 87 | SHA03 | |

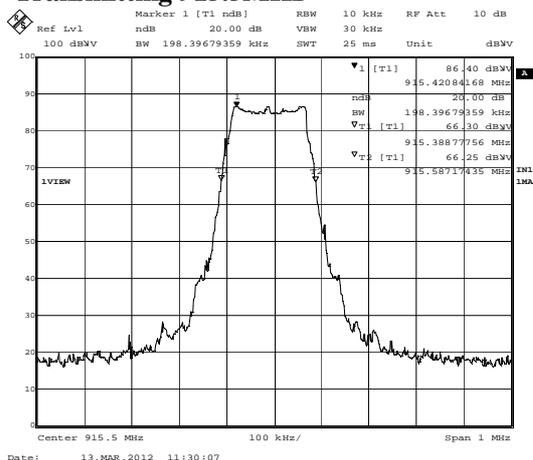
20dB Bandwidth

Company : Sony Corporation
 Equipment : RF Stereo Transmitter
 Model : TMR-RF985R
 Sample No. : 1
 Power : AC 120V / 60Hz
 Mode : Transmitting

UL Japan, Inc.
 Shonan EMC Lab No.3 Semi-Anechoic Chamber
 Regulation : FCC Part15C Section 15.215
 Test Distance : 3m
 Date : March 13, 2012
 Temperature : 21deg.C
 Humidity : 30%RH
 Engineer : Kenichi Adachi

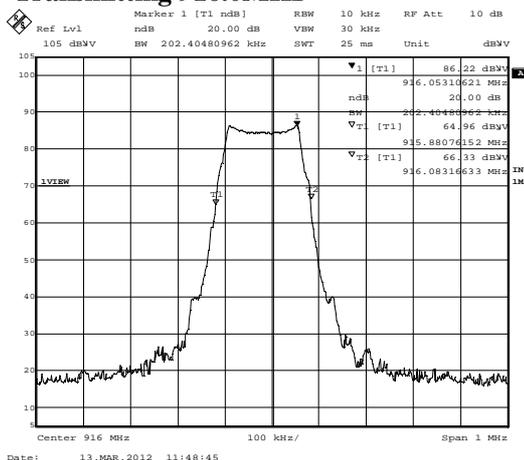
| | 20dB Bandwidth [kHz] |
|----------|----------------------------|
| 915.5MHz | 198.397 |
| 916.0MHz | 202.405 |
| 916.5MHz | 200.401 |

Transmitting 915.5MHz



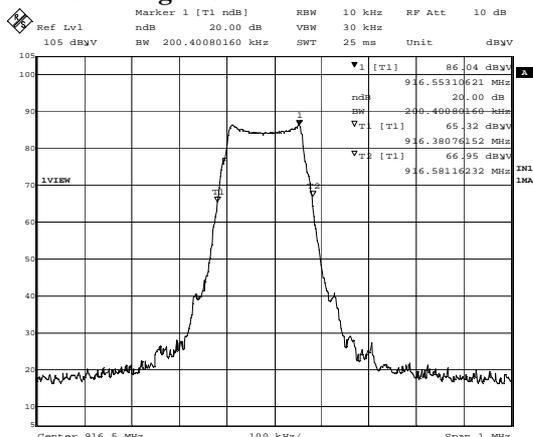
Date: 13.MAR.2012 11:30:07

Transmitting 916.0MHz



Date: 13.MAR.2012 11:48:45

Transmitting 916.5MHz



Date: 13.MAR.2012 11:58:14

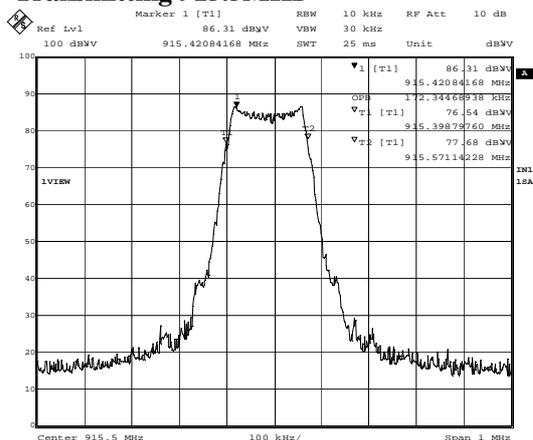
99% Occupied Bandwidth

Company : Sony Corporation
 Equipment : RF Stereo Transmitter
 Model : TMR-RF985R
 Sample No. : 1
 Power : AC 120V / 60Hz
 Mode : Transmitting

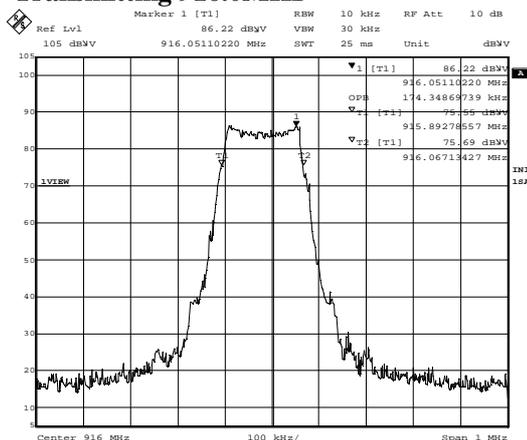
UL Japan, Inc.
 Shonan EMC Lab No.3 Semi-Anechoic Chamber
 Regulation : RSS-Gen
 Test Distance : 3m
 Date : March 13, 2012
 Temperature : 21deg.C
 Humidity : 30%RH
 Engineer : Kenichi Adachi

| | 99% Occupied Bandwidth [kHz] |
|----------|------------------------------|
| 915.5MHz | 172.345 |
| 916.0MHz | 174.349 |
| 916.5MHz | 174.349 |

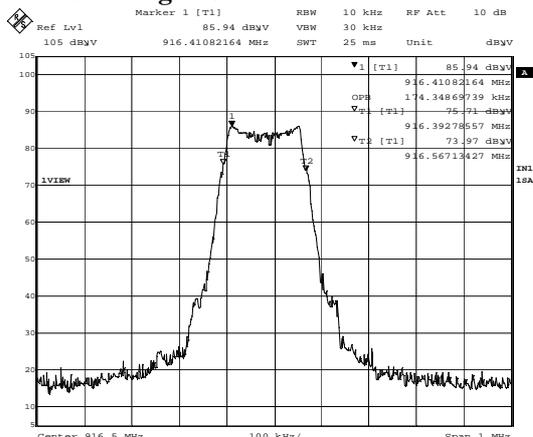
Transmitting 915.5MHz



Transmitting 916.0MHz



Transmitting 916.5MHz



APPENDIX

Test Instruments

EMI test equipment

| Control No. | Instrument | Manufacturer | Model No | Serial No | Test Item | Calibration Date * Interval(month) |
|--------------------------------|---------------------------|--|--|--------------------------|-----------|------------------------------------|
| SAF-03 | Pre Amplifier | SONOMA | 310N | 290213 | RE | 2012/02/10 * 12 |
| SAT6-03 | Attenuator | JFW | 50HF-006N | - | RE | 2012/02/10 * 12 |
| SBA-03 | Biconical Antenna | Schwarzbeck | BBA9106 | 91032666 | RE | 2011/10/23 * 12 |
| SCC-C1/C2/C3/C4/C5/C10/SRSE-03 | Coaxial Cable&RF Selector | Fujikura/Fujikura/Suhner/Suhner/Suhner/Suhner/TOYO | 8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906 | -/0901-271 (RF Selector) | RE | 2011/04/28 * 12 |
| SLA-03 | Logperiodic Antenna | Schwarzbeck | UHALP9108A | UHALP 9108-A 0901 | RE | 2011/10/23 * 12 |
| SOS-05 | Humidity Indicator | A&D | AD-5681 | 4062518 | RE | 2012/02/06 * 12 |
| STR-03 | Test Receiver | Rohde & Schwarz | ESI40 | 100054/040 | RE, CE | 2011/07/28 * 12 |
| SJM-10 | Measure | PROMART | SEN1935 | - | RE, CE | - |
| SAEC-03(NSA) | Semi-Anechoic Chamber | TDK | SAEC-03(NSA) | 3 | RE | 2011/09/23 * 12 |
| COTS-SEMI-1 | EMI Software | TSJ | TEPTO-DV(RE,CE, RFL, MF) | - | RE, CE | - |
| SAF-06 | Pre Amplifier | TOYO Corporation | TPA0118-36 | 1440491 | RE | 2011/07/19 * 12 |
| SCC-G03 | Coaxial Cable | Suhner | SUCOFLEX 104A | 46499/4A | RE | 2011/04/28 * 12 |
| SCC-G23 | Coaxial Cable | Suhner | SUCOFLEX 104 | 297342/4 | RE | 2011/05/27 * 12 |
| SHA-03 | Horn Antenna | Schwarzbeck | BBHA9120D | 9120D-739 | RE | 2011/08/28 * 12 |
| SFL-01 | Highpass Filter | MICRO-TRONICS | HPM50115 | 001 | RE | 2011/12/27 * 12 |
| SLP-02 | Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 100218 | RE | 2011/10/19 * 12 |
| SCC-C9/C10/SRSE-03 | Coaxial Cable&RF Selector | Suhner/Suhner/TOYO | RG223U/141PE/NS4906 | -/0901-271 (RF Selector) | CE | 2011/04/28 * 12 |
| SLS-02 | LISN | Rohde & Schwarz | ENV216 | 100512 | CE | 2012/02/28 * 12 |
| SAT3-06 | Attenuator | JFW | 50HF-003N | - | CE | 2012/02/17 * 12 |
| SOS-06 | Humidity Indicator | A&D | AD-5681 | 4062118 | CE | 2012/03/26 * 12 |
| | | | | | | |
| | | | | | | |

The expiration date of the calibration is the end of the expired month .
 As for some calibrations performed after the tested dates , those test equipment have been controlled by means of an unbroken chains of calibrations .

All equipment is calibrated with valid calibrations . Each measurement data is traceable to the national or international standards .

Test Item :

- CE: Conducted emission ,
- RE: Radiated emission ,