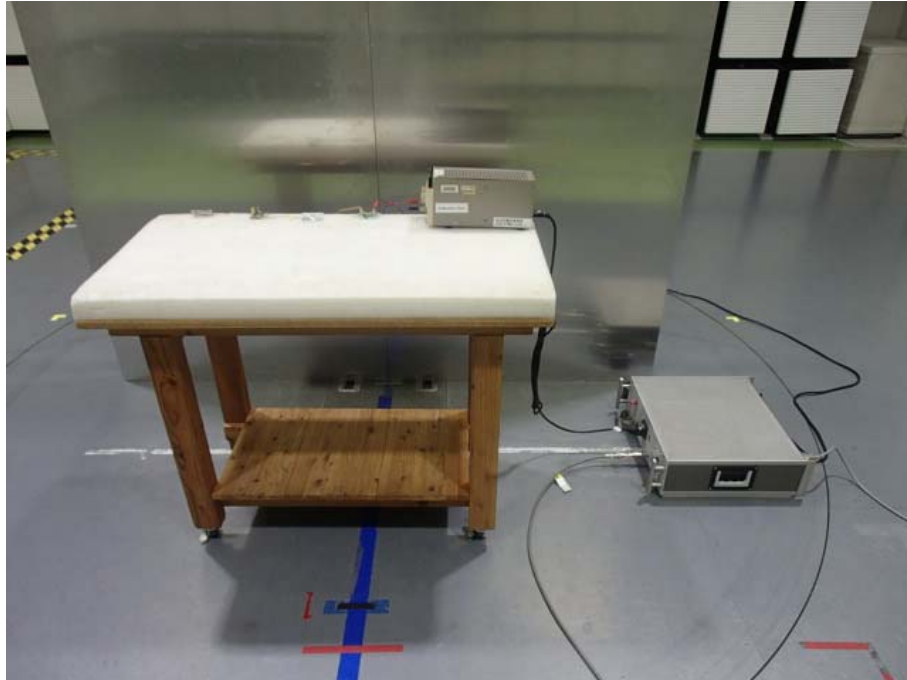
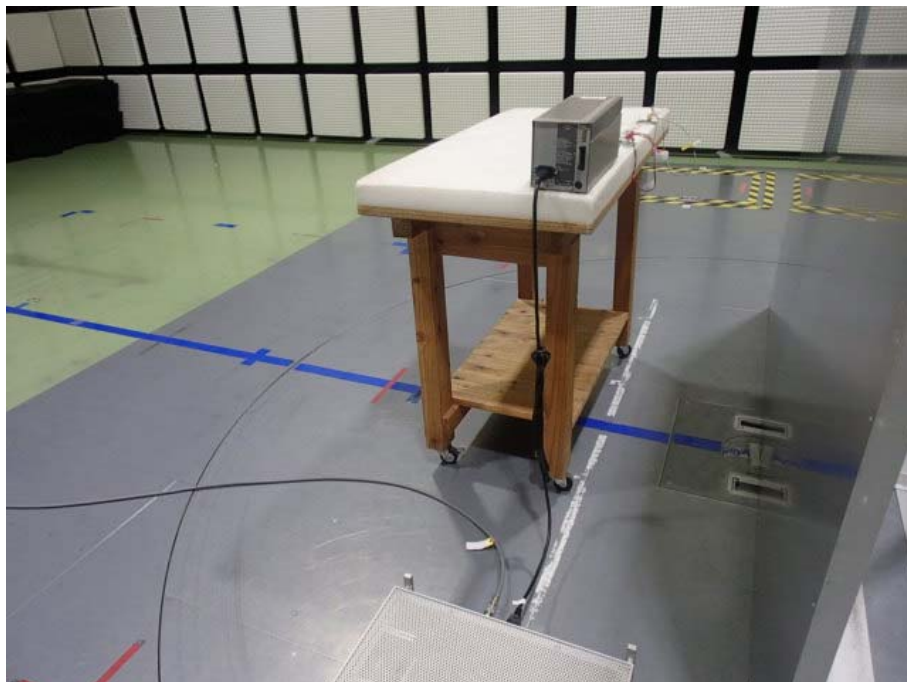


### **APPENDIX 3: Photographs of test setup**

#### **Conducted Emission** (PIFA Antenna)

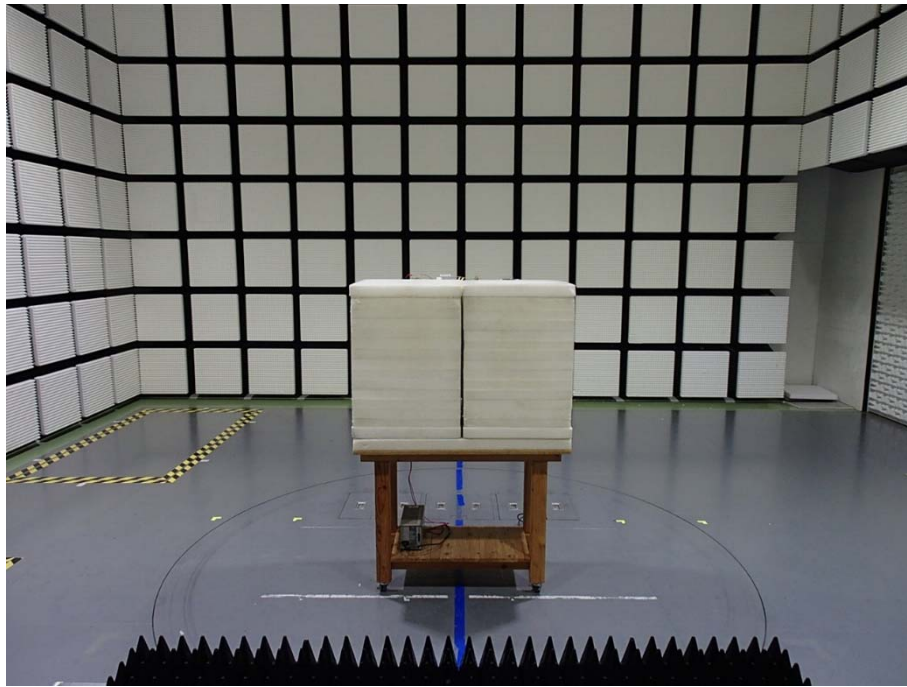


**Photo 1**



**Photo 2**

**Radiated Spurious Emission**  
**(PIFA Antenna)**

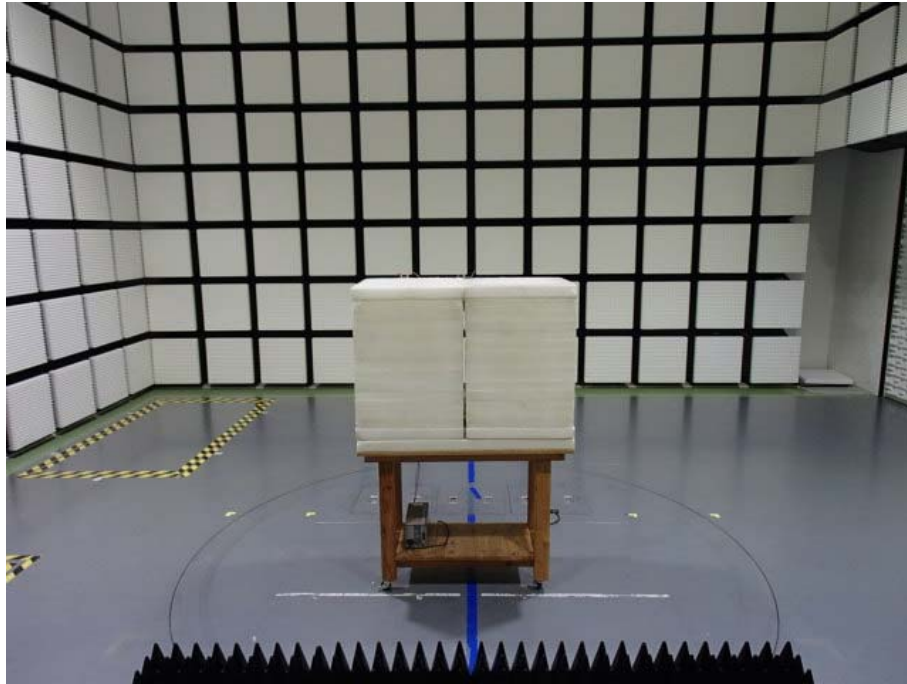


**Photo 1**

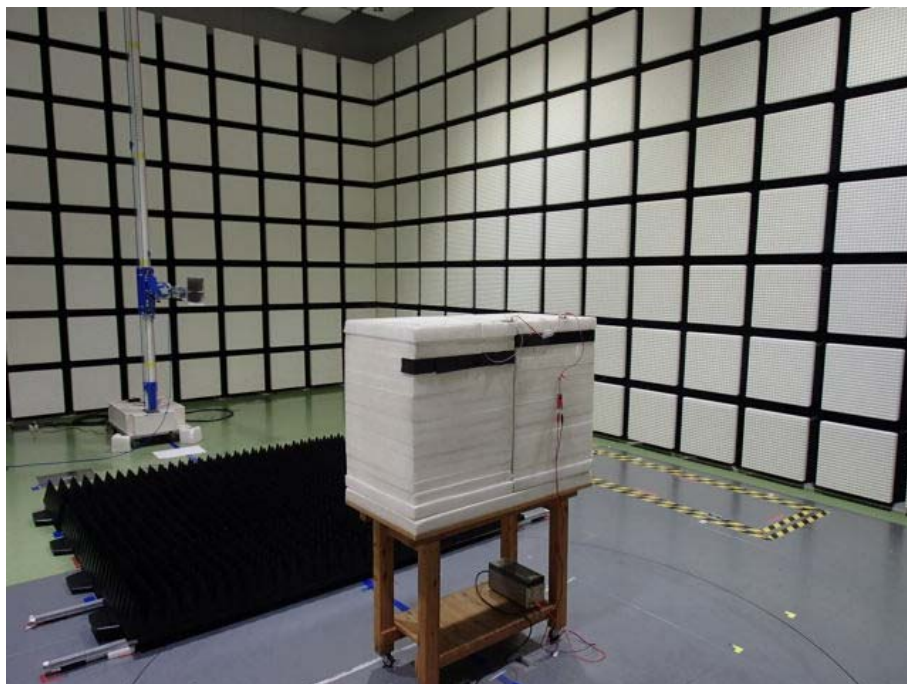


**Photo 2**

**Radiated Spurious Emission**  
(IFA Antenna)



**Photo 1**



**Photo 2**

**Worst Case Position**  
**(Module)**

WLAN (Horizontal: X-axis/ Vertical: X-axis)  
BT LE (Horizontal: X-axis/ Vertical: X-axis)

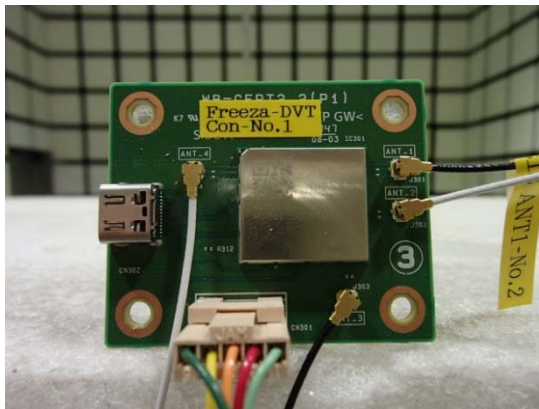
**X-axis**



**Y-axis**



**Z-axis**



**Worst Case Position**  
**(PIFA Antenna)**

Antenna 1 / Antenna 2 (Horizontal: Z-axis/ Vertical:Y-axis)

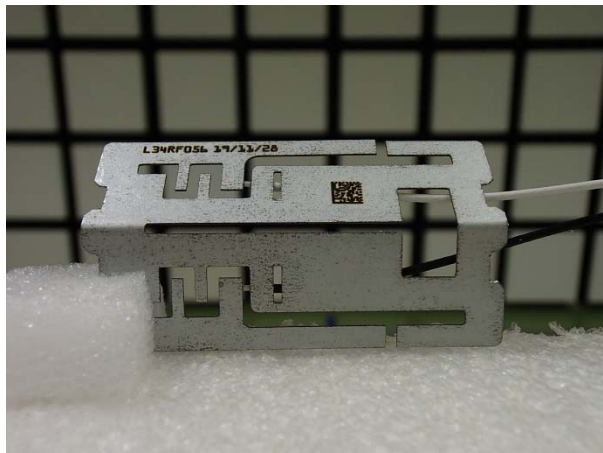
**X-axis**



**Y-axis**



**Z-axis**



**Worst Case Position**  
**(PIFA Antenna)**

Antenna 3 (Horizontal: X-axis/ Vertical:Z-axis)

Antenna 4 (Horizontal: X-axis/ Vertical:Z-axis)

**Antenna 3**  
**X-axis**



**Y-axis**



**Z-axis**



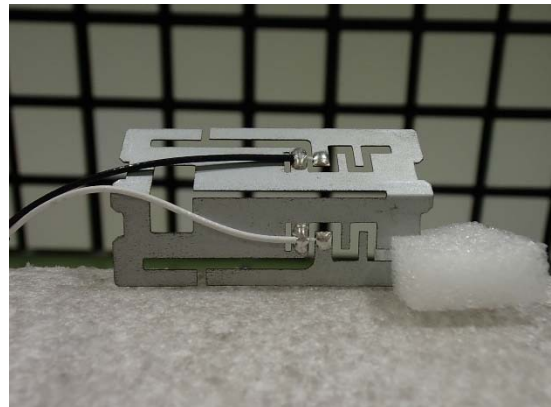
**Antenna 4**  
**X-axis**



**Y-axis**



**Z-axis**



**Worst Case Position**  
**(IFA Antenna)**

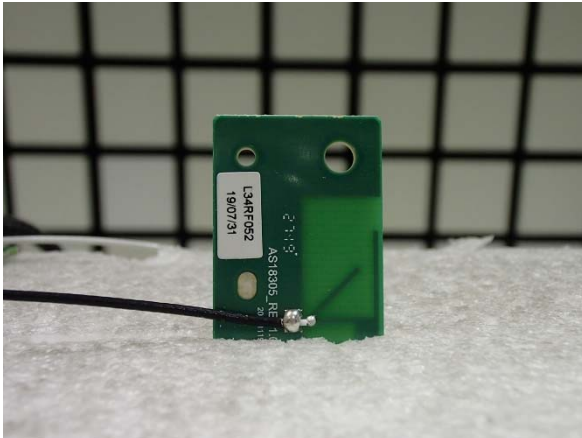
Antenna 1 (Horizontal: X-axis/ Vertical:Y-axis)

Antenna 2 (Horizontal: X-axis/ Vertical:Y-axis)

**Antenna 1**  
**X-axis**



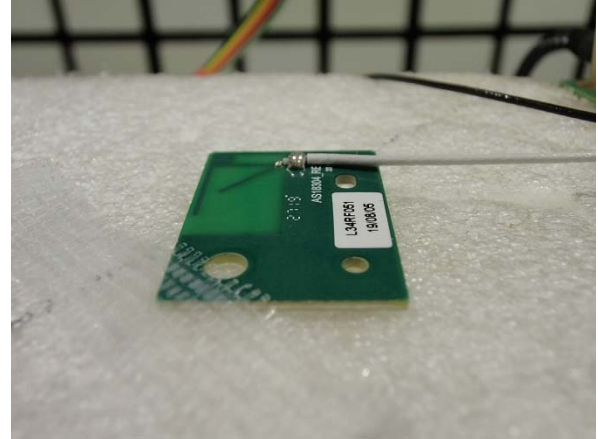
**Y-axis**



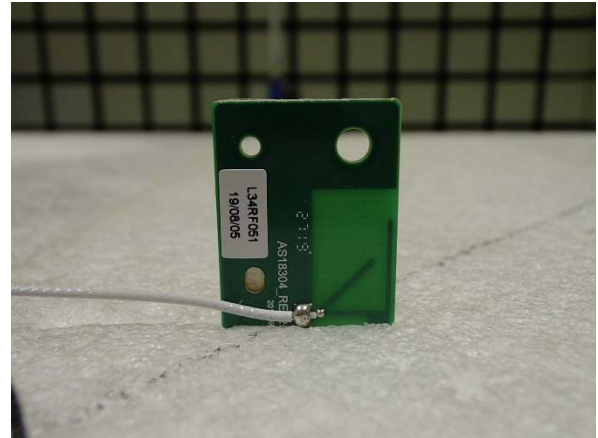
**Z-axis**



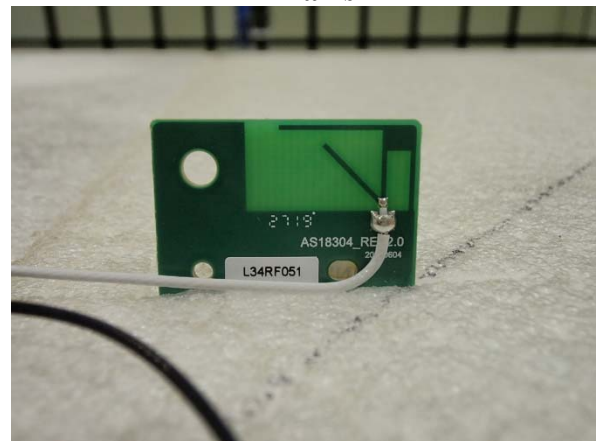
**Antenna2**  
**X-axis**



**Y-axis**



**Z-axis**



**Worst Case Position**  
**(IFA Antenna)**

Antenna 3 (Horizontal: Z-axis/ Vertical:Y-axis)

Antenna 4 (Horizontal: Z-axis/ Vertical:Y-axis)

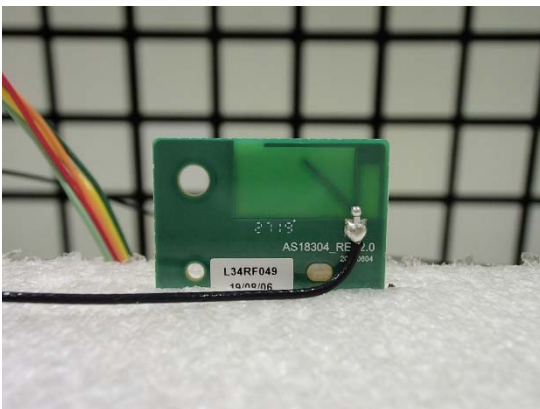
**Antenna 3**  
**X-axis**



**Y-axis**



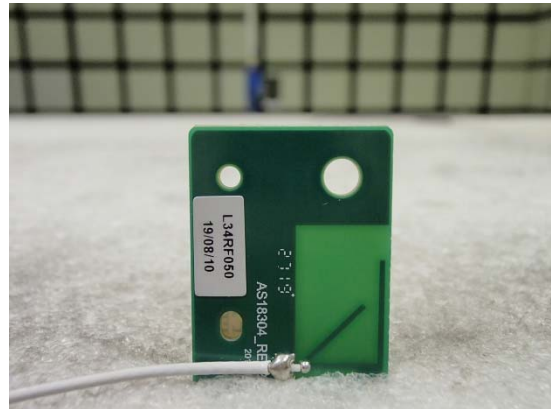
**Z-axis**



**Antenna 4**  
**X-axis**



**Y-axis**

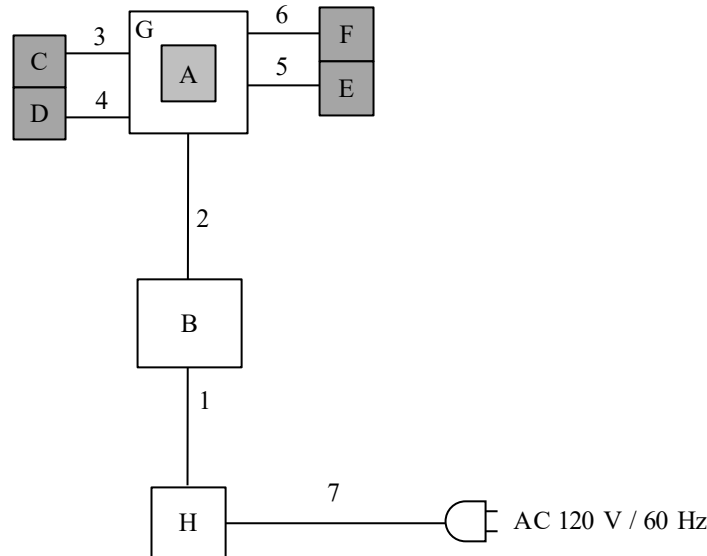


**Z-axis**



## Test Configuration and peripherals

### For Conducted Emission and Radiated Spurious Emission tests with PIFA antenna



■ : Standard Ferrite Core

\* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

### Description of EUT and Support equipment

| No. | Item                          | Model number   | Serial number       | Manufacturer                        | Remarks |
|-----|-------------------------------|----------------|---------------------|-------------------------------------|---------|
| A   | Wireless communication module | J20H100        | No.1                | Foxconn                             | EUT     |
| B   | Jig Board                     | WB-PCIE-USB    | PCIE-USB No.2       | Sony Interactive Entertainment Inc. | -       |
| C   | PIFA Antenna                  | L34RF056       | No.1                | Luxshare-ICT                        | EUT     |
| D   | PIFA Antenna                  | L34RF056       | No.1                | Luxshare-ICT                        | EUT     |
| E   | PIFA Antenna                  | L34RF057       | No.1                | Luxshare-ICT                        | EUT     |
| F   | PIFA Antenna                  | L34RF057       | No.1                | Luxshare-ICT                        | EUT     |
| G   | Jig Board                     | WB-CERT2_1(P1) | Freeza-DVT Con-No.1 | Sony Interactive Entertainment Inc. | -       |
| H   | DC Power supply               | PMC35-2A       | 13090501            | KIKUSUI                             | -       |

### List of cables used

| No. | Name         | Length (m)                   | Shield     |            | Remarks |
|-----|--------------|------------------------------|------------|------------|---------|
|     |              |                              | Cable      | Connector  |         |
| 1   | DC Cable     | 0.40 for CE*<br>2.40 for RE* | Unshielded | Unshielded | -       |
| 2   | Signal Cable | 0.40                         | Unshielded | Unshielded | -       |
| 3   | Signal Cable | 0.50                         | Unshielded | Unshielded | -       |
| 4   | Signal Cable | 0.50                         | Unshielded | Unshielded | -       |
| 5   | Signal Cable | 0.15                         | Unshielded | Unshielded | -       |
| 6   | Signal Cable | 0.15                         | Unshielded | Unshielded | -       |
| 7   | AC Cable     | 1.50                         | Unshielded | Unshielded | -       |

\*CE: Conducted Emission test, RE: Radiated Spurious Emission test

**UL Japan, Inc.**

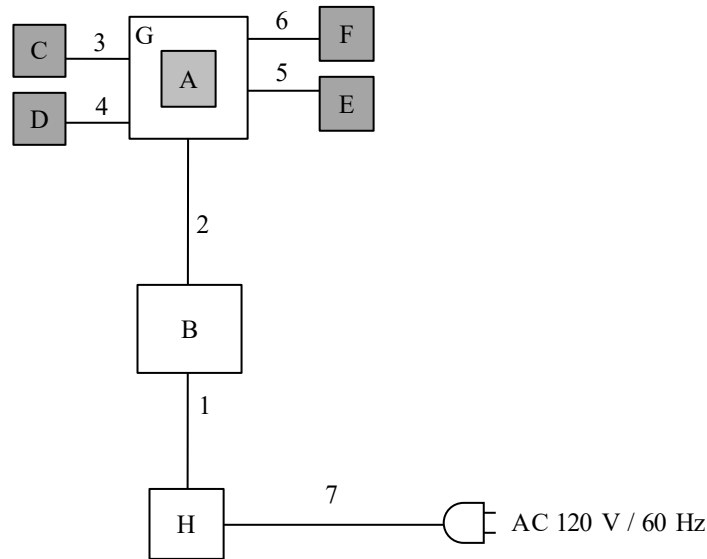
**Ise EMC Lab.**

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

# For Radiated Spurious Emission tests with IFA antenna



■ : Standard Ferrite Core

\* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

## Description of EUT and Support equipment

| No. | Item                          | Model number   | Serial number       | Manufacturer                        | Remarks |
|-----|-------------------------------|----------------|---------------------|-------------------------------------|---------|
| A   | Wireless communication module | J20H100        | No.1                | Foxconn                             | EUT     |
| B   | Jig Board                     | WB-PCIE-USB    | PCIE-USB No.2       | Sony Interactive Entertainment Inc. | -       |
| C   | IFA Antenna                   | L34RF052       | No.1                | Luxshare-ICT                        | EUT     |
| D   | IFA Antenna                   | L34RF051       | No.1                | Luxshare-ICT                        | EUT     |
| E   | IFA Antenna                   | L34RF049       | No.1                | Luxshare-ICT                        | EUT     |
| F   | IFA Antenna                   | L34RF050       | No.1                | Luxshare-ICT                        | EUT     |
| G   | Jig Board                     | WB-CERT2_1(P1) | Freeza-DVT Con-No.1 | Sony Interactive Entertainment Inc. | -       |
| H   | DC Power supply               | PMC35-2A       | 13090501            | KIKUSUI                             | -       |

## List of cables used

| No. | Name         | Length (m)                   | Shield     |            | Remarks |
|-----|--------------|------------------------------|------------|------------|---------|
|     |              |                              | Cable      | Connector  |         |
| 1   | DC Cable     | 0.40 for CE*<br>2.48 for RE* | Unshielded | Unshielded | -       |
| 2   | Signal Cable | 0.40                         | Unshielded | Unshielded | -       |
| 3   | Signal Cable | 0.50                         | Unshielded | Unshielded | -       |
| 4   | Signal Cable | 0.45                         | Unshielded | Unshielded | -       |
| 5   | Signal Cable | 0.06                         | Unshielded | Unshielded | -       |
| 6   | Signal Cable | 0.06                         | Unshielded | Unshielded | -       |
| 7   | AC Cable     | 1.50                         | Unshielded | Unshielded | -       |

\*CE: Conducted Emission test, RE: Radiated Spurious Emission test

**UL Japan, Inc.**

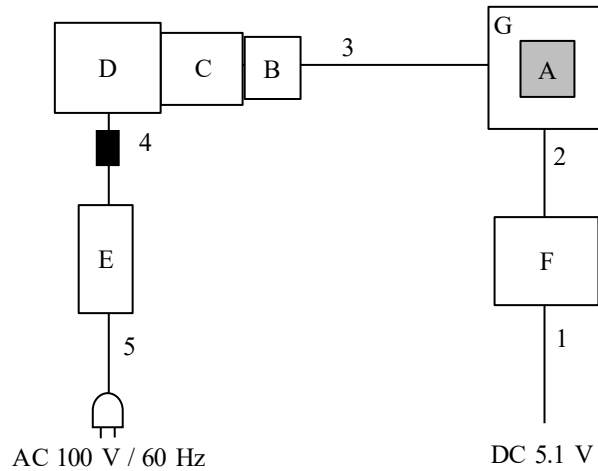
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# **For Antenna Terminal Conducted tests**



■ : Standard Ferrite Core

\* Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

## **Description of EUT and Support equipment**

| No. | Item                          | Model number   | Serial number           | Manufacturer                        | Remarks |
|-----|-------------------------------|----------------|-------------------------|-------------------------------------|---------|
| A   | Wireless communication module | J20H100        | No.2                    | Foxconn                             | EUT     |
| B   | Jig Board                     | WB-PCIE-USB    | PCIE-USB No.2           | Sony Interactive Entertainment Inc. | -       |
| C   | Jig Board                     | WB-PCIE-USB V8 | -                       | Marvell                             | -       |
| D   | Laptop PC                     | Think Pad X230 | PK-2EKL1                | Lenovo                              | -       |
| E   | AC Adaptor                    | ADLX65NLT2A    | 11S45N0319Z1ZL ZF37J96D | Lenovo                              | -       |
| F   | Jig Board                     | WB-P.R.-JIG2   | P-JIG No.2              | Sony Interactive Entertainment Inc. | -       |
| G   | Jig Board                     | WB-CERT2_1(P1) | Freeza-DVT Con-No.2     | Sony Interactive Entertainment Inc. | -       |

## **List of cables used**

| No. | Name         | Length (m) | Shield     |            | Remarks |
|-----|--------------|------------|------------|------------|---------|
|     |              |            | Cable      | Connector  |         |
| 1   | DC Cable     | 1.3        | Unshielded | Unshielded | -       |
| 2   | Signal Cable | 0.4        | Unshielded | Unshielded | -       |
| 3   | USB Cable    | 0.2        | Shielded   | Shielded   | -       |
| 4   | DC Cable     | 1.8        | Shielded   | Shielded   | -       |
| 5   | AC Cable     | 1.9        | Unshielded | Unshielded | -       |

**End of Report**

**UL Japan, Inc.**

**Ise EMC Lab.**

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