

APPENDIX 3: Photographs of Test Setup

Conducted Emission



Photo 1

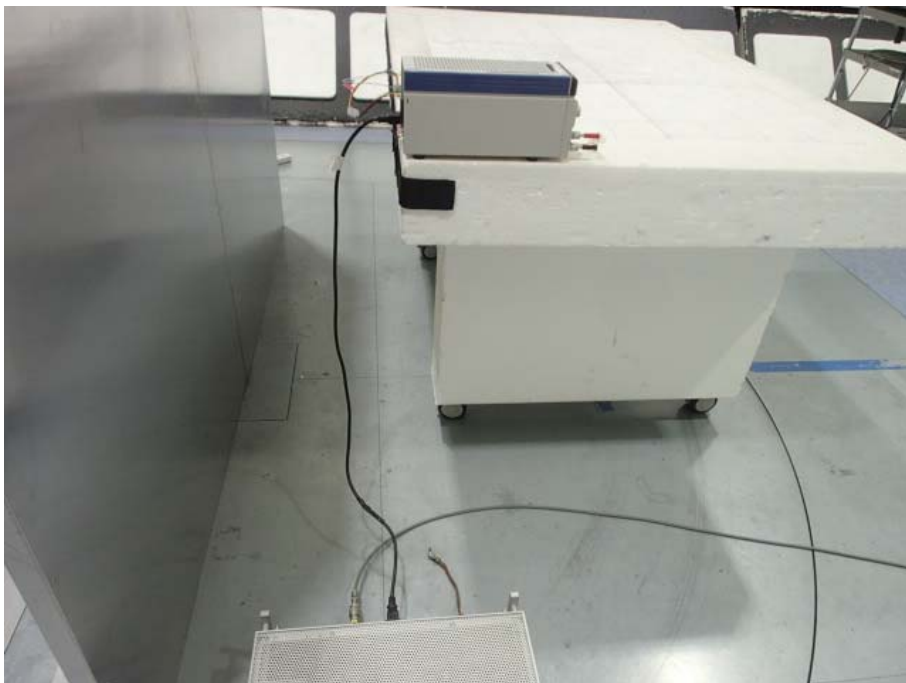


Photo 2

Radiated Spurious Emission
1 GHz to 6 GHz

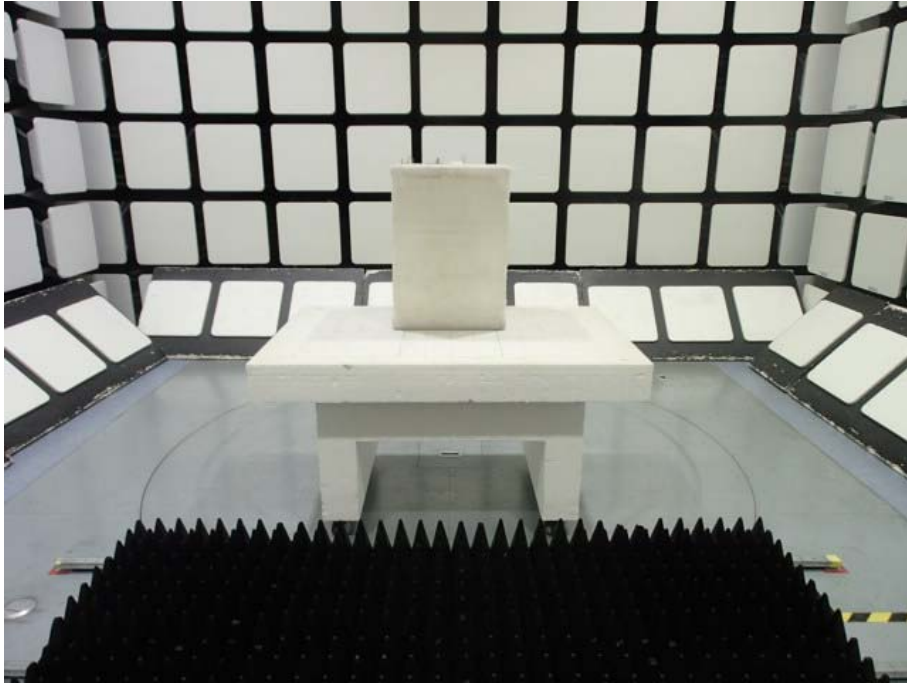


Photo 1

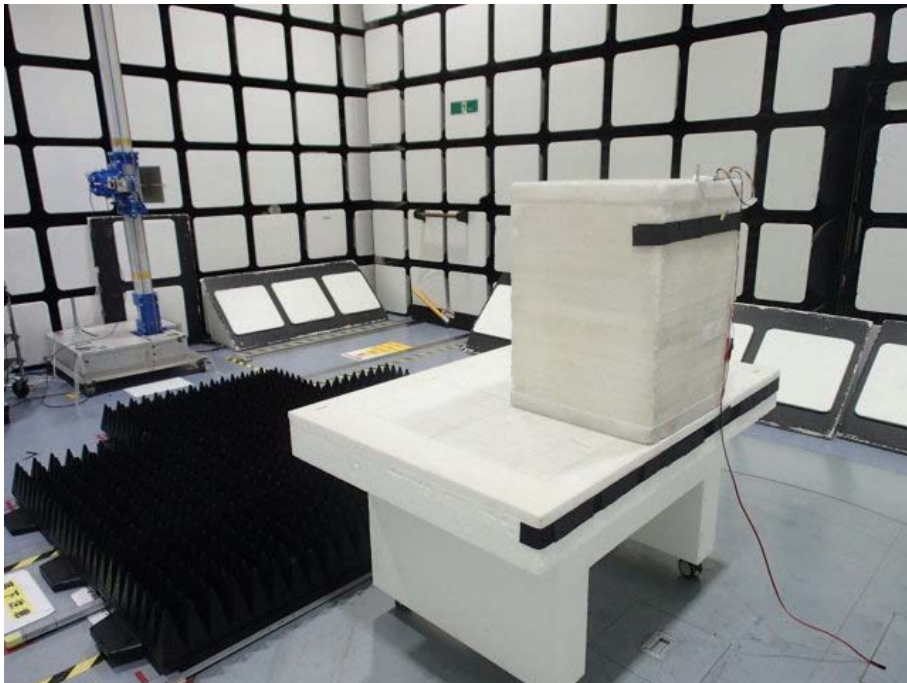


Photo 2

Radiated Spurious Emission
6 GHz to 10 GHz



Photo 1

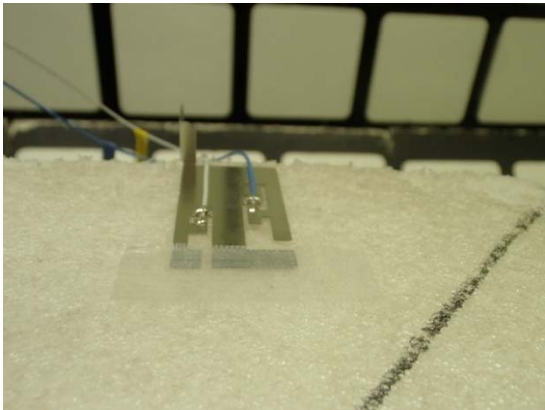


Photo 2

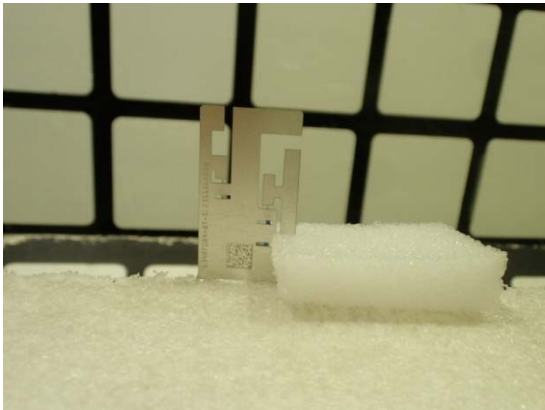
Worst Case Position

Test Range	Antenna	Horizontal	Vertical
Below 1 GHz*1)	Antenna 1	X-axis	X-axis
	Antenna 3 / Module	X-axis	X-axis
Above 1 GHz	Antenna 1	Y-axis	Z-axis
	Antenna 3 / Module	X-axis	Y-axis

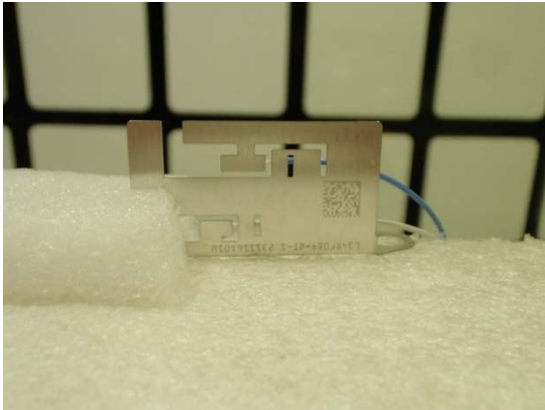
**Antenna 1
X-axis**



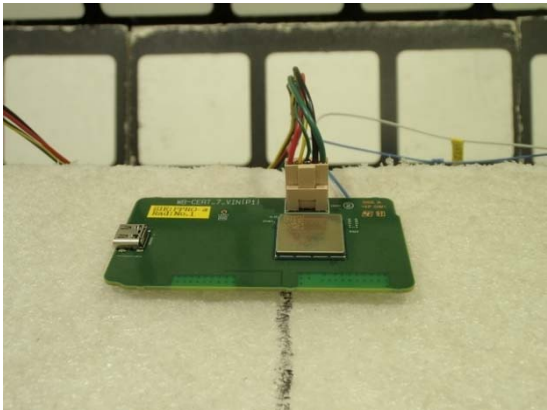
Y-axis



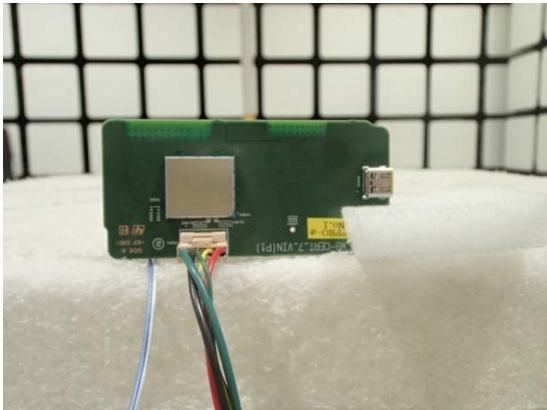
Z-axis



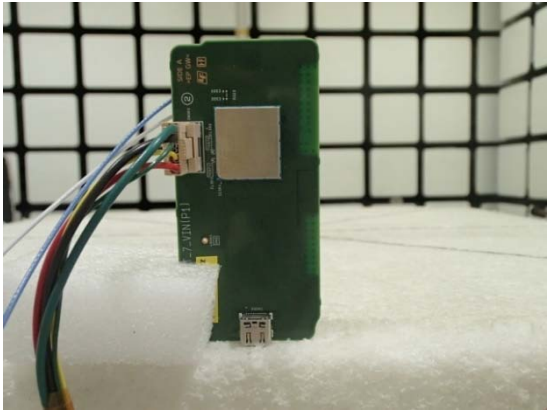
**Antenna 3 / Module
X-axis**



Y-axis



Z-axis



Antenna Terminal Conducted Tests



Photo 1

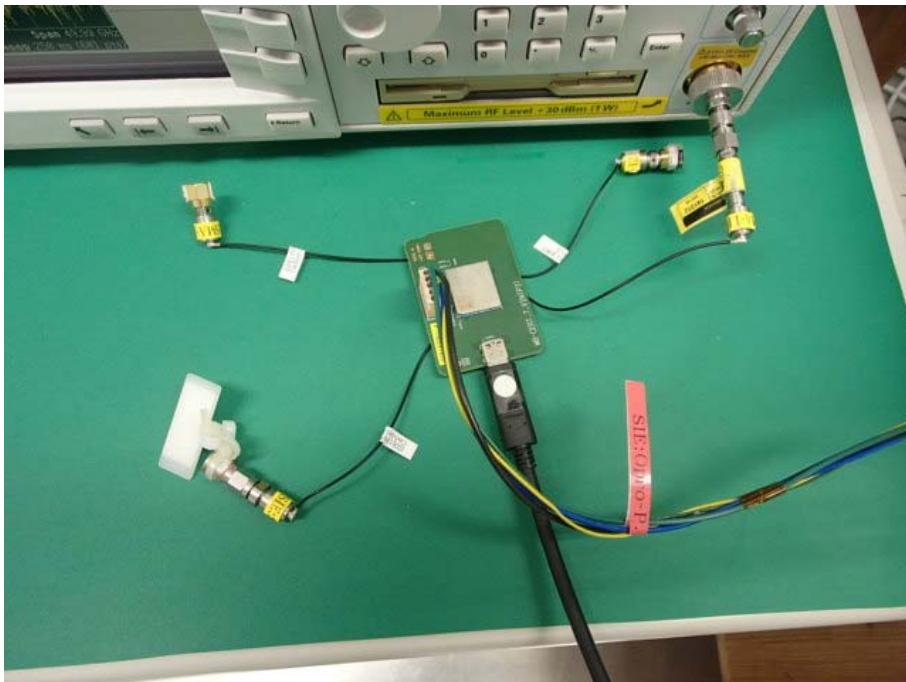


Photo 2

Contention Based Protocol

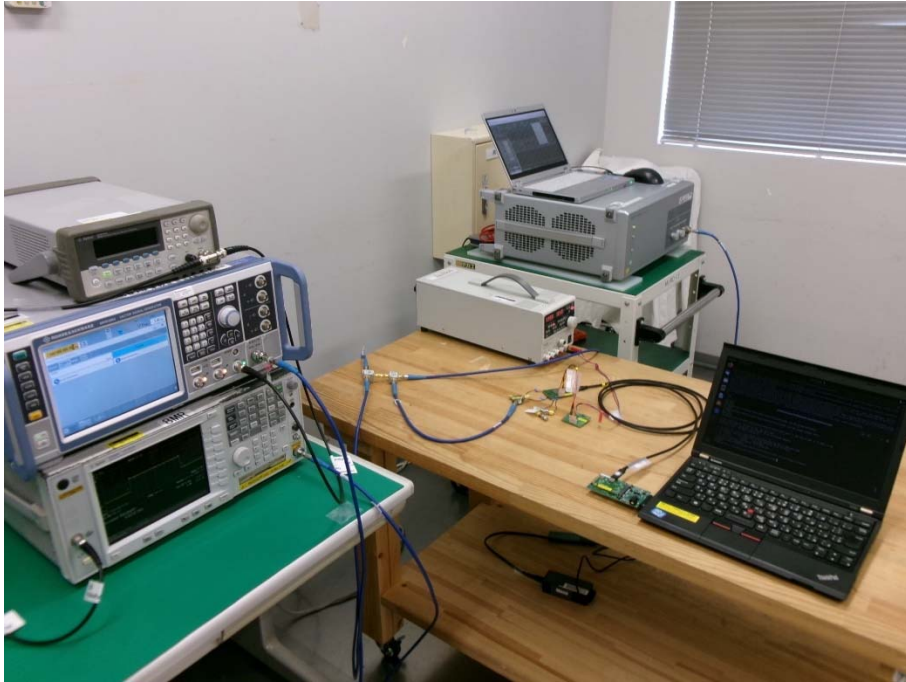


Photo 1

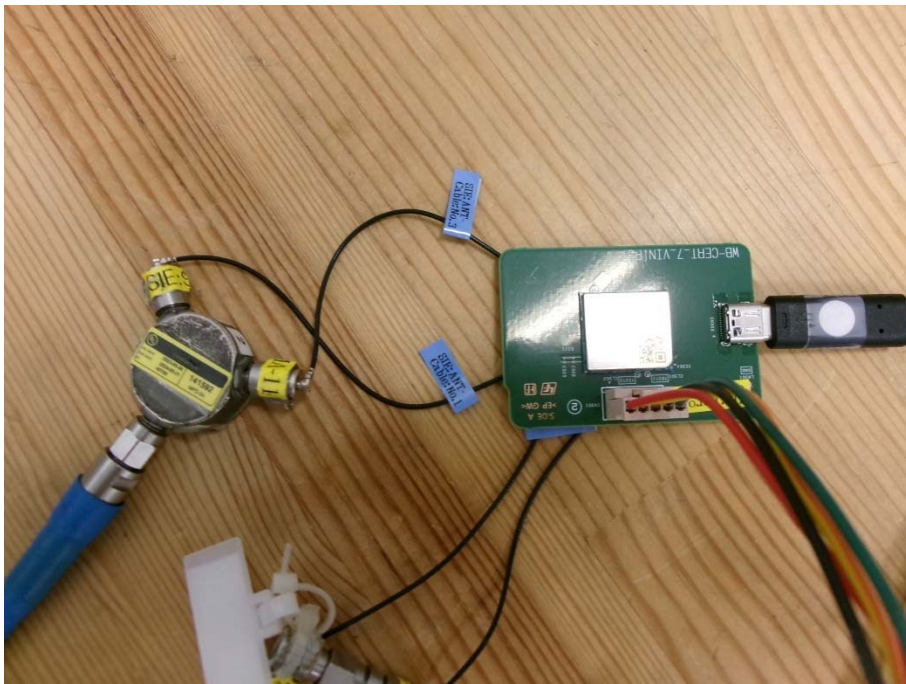
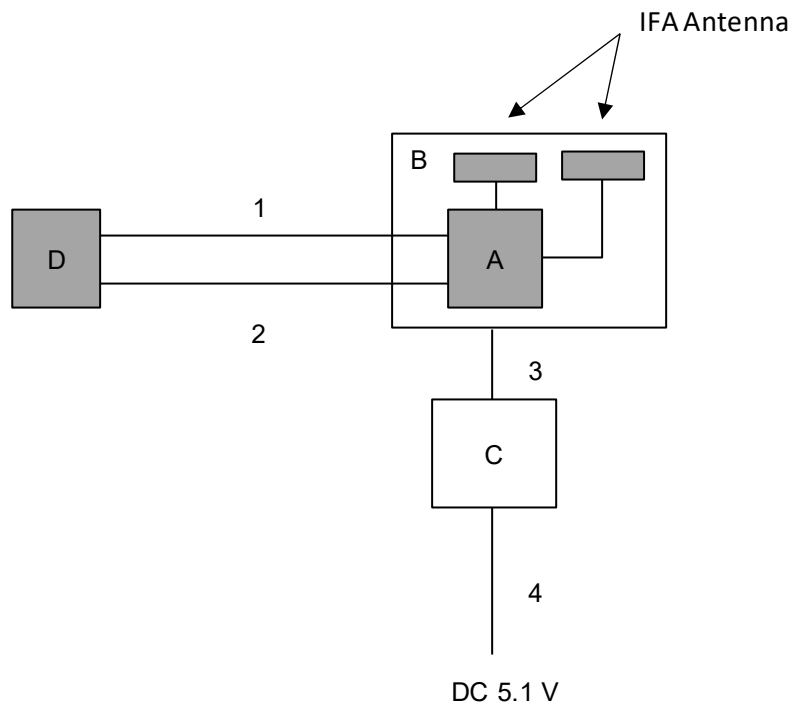


Photo 2

APPENDIX 4: Configuration and Peripherals

Radiated Spurious Emission



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

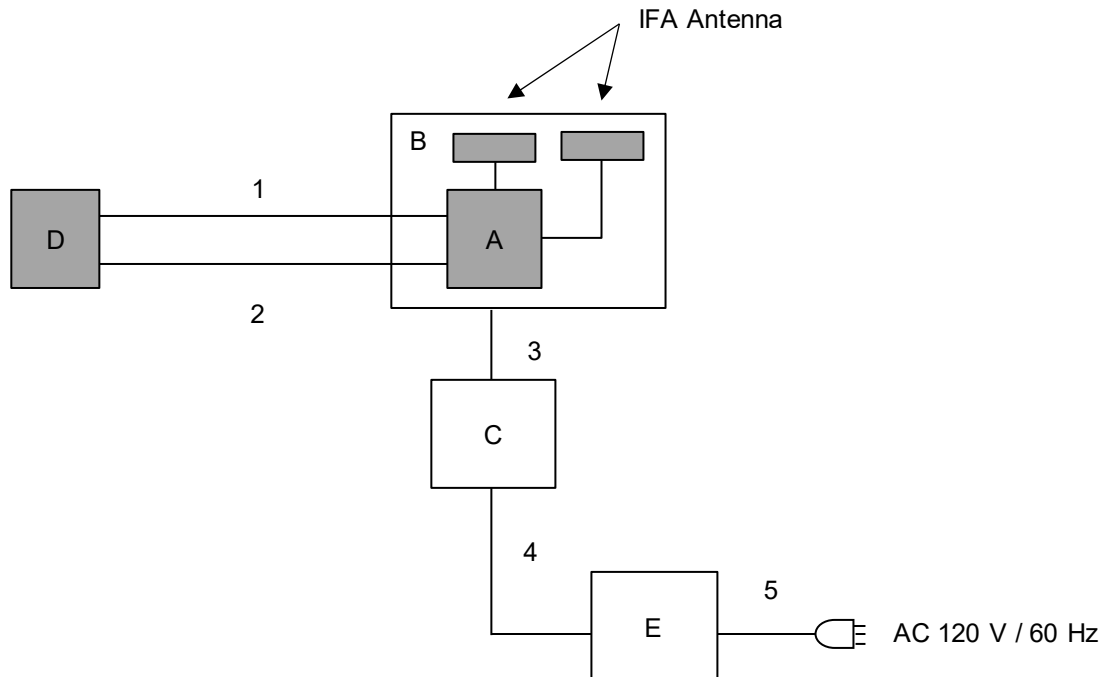
Description of EUT and Support Equipment

No.	Item	Model number	Serial Number	Manufacturer	Remarks
A	Wireless communication module	J20H106	Rad:No.1	Foxconn	EUT
B	Jig Board	WB-CERT_7_VIN(P1)	Rad:No.1	Sony Interactive Entertainment Inc.	Antenna 3 and 4
C	Jig Board	WLAN_JIG_Power_B	P-JIG No.3	Sony Interactive Entertainment Inc.	-
D	PIFA Antenna	L34RF084	231116A01W	LUXSHARE-ICT	EUT Antenna 1 and 2

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	Antenna Cable	0.3	Shielded	Shielded	-
2	Antenna Cable	0.3	Shielded	Shielded	-
3	DC Cable	0.4	Unshielded	Unshielded	-
4	DC Cable	2.5	Unshielded	Unshielded	-

Conducted Emission



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

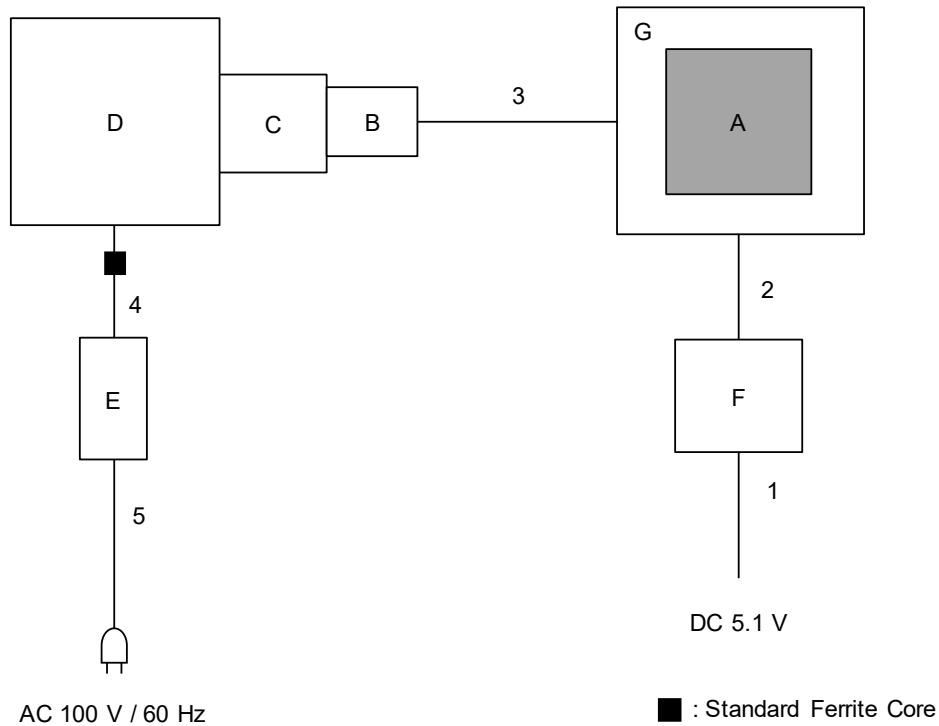
Description of EUT and Support Equipment

No.	Item	Model number	Serial Number	Manufacturer	Remarks
A	Wireless communication module	J20H106	Rad:No.1	Foxconn	EUT
B	Jig Board	WB-CERT_7_VIN(P1)	Rad:No.1	Sony Interactive Entertainment Inc.	Antenna 3 and 4
C	Jig Board	WLAN_JIG_Power_B	P-JIG No.3	Sony Interactive Entertainment Inc.	-
D	PIFA Antenna	L34RF084	231116A01W	LUXSHARE-ICT	EUT Antenna 1 and 2
E	DC Power Supply	PMC35-2A	RM00298	Kikusui Electronics Corp.	-

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	Antenna Cable	0.3	Shielded	Shielded	-
2	Antenna Cable	0.3	Shielded	Shielded	-
3	DC Cable	0.4	Unshielded	Unshielded	-
4	DC Cable	0.5	Unshielded	Unshielded	-
5	AC Cable	1.0	Unshielded	Unshielded	-

Antenna Terminal Conducted Tests



- * Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.
- * RF ports which were not used for measurements were terminated.

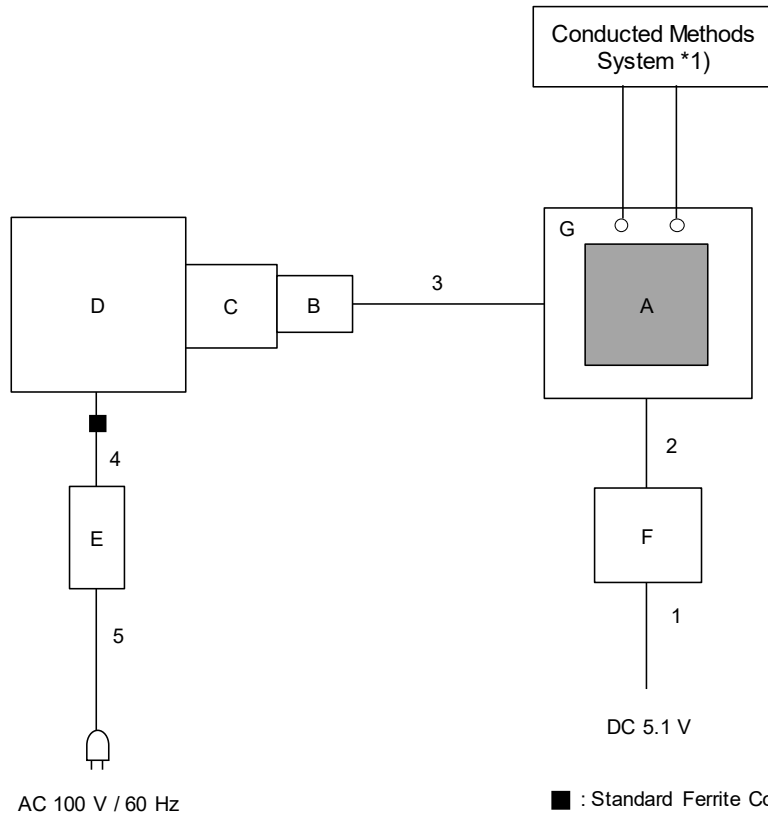
Description of EUT and Support Equipment

No.	Item	Model number	Serial Number	Manufacturer	Remarks
A	Wireless communication module	J20H106	SIE:PPRO-α Con:No.1	Foxconn	EUT
B	Jig Board	WB-PCIE-USB	SIE:Ppro PCIE-USB No.3	Sony Interactive Entertainment Inc.	-
C	Jig Board	WB-PCIE-USB V9	SIE:Ppro EC-MC No.3	Marvell	-
D	Laptop PC	ThinkPad X230	R9-X86PD	Lenovo	-
E	AC Adaptor	ADLX65NLT2A	11S92P1156Z1ZDXN 849DRH	Lenovo	-
F	Jig Board	WLAN_JIG_Power_B	SIE:PPRO-C P-JIG:No.1	Sony Interactive Entertainment Inc.	-
G	Jig Board	WB_CERT_7_VIN(P3)	SIE:PPRO-α Con:No.1	Sony Interactive Entertainment Inc.	-

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	DC Cable	0.5	Unshielded	Unshielded	-
2	Signal Cable	0.2	Unshielded	Unshielded	-
3	USB Cable	2.0	Shielded	Shielded	-
4	DC Cable	1.8	Unshielded	Unshielded	-
5	AC Cable	1.0	Unshielded	Unshielded	-

Contention Based Protocol



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

* RF ports which were not used for measurements were terminated.

*1) Refer to BLOCK DIAGRAM in SECTION 8

Description of EUT and Support Equipment

No.	Item	Model number	Serial Number	Manufacturer	Remarks
A	Wireless communication module	J20H106	SIE:PPRO-α Con:No.5	Foxconn	EUT
B	Jig Board	WB-PCIE-USB	SIE:Ppro PCIE-USB No.1	Sony Interactive Entertainment Inc.	-
C	Jig Board	WB-PCIE-USB V9	SIE:Ppro EC-MC No.1	Marvell	-
D	Laptop PC	ThinkPad X230	PK1R2N9	Lenovo	-
E	AC Adaptor	ADLX65NLT2A	11S45N0319Z1ZLF3 1GDA2	Lenovo	-
F	Jig Board	WLAN_JIG_Power_B	SIE:PPRO-C P-JIG:No.4	Sony Interactive Entertainment Inc.	-
G	Jig Board	WB_CERT_7_VIN(P3)	SIE:PPRO-α Con:No.5	Sony Interactive Entertainment Inc.	-

List of Cables Used

No.	Name	Length (m)	Shield Cable	Connector	Remarks
1	DC Cable	0.5	Unshielded	Unshielded	-
2	Signal Cable	0.2	Unshielded	Unshielded	-
3	USB Cable	2.0	Shielded	Shielded	-
4	DC Cable	1.8	Unshielded	Unshielded	-
5	AC Cable	1.0	Unshielded	Unshielded	-

End of Report