TEST REPORT

Applicant: Sony Corporation

EUT Description: GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, NFC and GNSS

Brand: Sony

FCC ID: PY7-37016L

Standards: FCC 47 CFR Part 15 Subpart B

Date of Receipt: 2023/11/14

Date of Test: 2023/11/14 to 2024/01/25

Date of Issue: 2024/01/26

TOWE. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

the results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of the model are manufactured with identical electrical and mechanical components. All sample tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. without written approval of TOWE, the test report shall not be reproduced except in full.

lac-MRA

ACCREDITED
CERTIFICATE #7088.01

Huang Kun

Approved By:

Ou Shuyan Reviewed By:





Revision History

Rev.	Issue Date	Description	Revised by
01	2024/01/26	Original	Ou Shuyan





Summary of Test Results

Clause	Test Items	Test Standard					
4.1	AC Conducted Emissions	§15.107	PASS				
4.2	Radiated Emissions	§15.109	PASS				
Test Meth	Test Method: ANSI C63.4-2014						
Remark: P	ass is EUT meets standard requirements.						



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General Description

1.1 Lab Information

1.1.1 **Testing Location**

These measurements tests were conducted at the Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. facility located at F401 and F101, Building E, Hongwei Industrial Zone, Liuxian 3rd Road, Bao'an District, Shenzhen, China. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014 Tel.: +86-755-27212361

Contact Email: info@towewireless.com

1.1.2 **Test Facility / Accreditations**

A2LA (Certificate Number: 7088.01)

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

FCC Designation No.: CN1353

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized as an accredited testing laboratory. Designation Number: CN1353.

ISED CAB identifier: CN0152

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized by ISED as an accredited testing

laboratory.

CAB identifier: CN0152 Company Number: 31000

1.2 Client Information

1.2.1 **Applicant**

Applicant:	Sony Corporation
Address:	1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan

1.2.2 Manufacturer

Manufacturer:	Sony Corporation
Address:	1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd.

Email: info@towewireless.com Tel.: +86-755-27212361





1.3 General Description of EUT

EUT Description:	GSM/WCDMA/LTE Phone	GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, NFC and GNSS				
Brand:	Sony	Sony				
Hardware Version:	A					
Software Version:	1.59					
SN.:	HQ63B1049E					
	Frequency Bands:	Tx Frequency Bands:	Rx Frequency Bands:			
	GSM850	824~849	869~894			
	GSM1900	1850~1910	1930~1990			
	WCDMA Band V	824~849	869~894			
	LTE Band 12	699~716	729~749			
Frequency Bands:	LTE Band 41	2496~2690	2496~2690			
	Bluetooth	2402~2480	2402~2480			
	Wi-Fi 2.4G	2412~2462	2412~2462			
	Wi-Fi 5G	5150~5850	5150~5850			
	NFC	13.56	13.56			
	GNSS (GPS+Glonass + Galileo + Beidou)	/	1559~1610			

Remark: The above EUT's information was declared by applicant, please refer to the specifications or user's manual for more detailed description.





2 Test Configuration During Test

2.1 Support Unit used in test

Description	Manufacturer	Model	Serial Number			
Laptop	DELL	Latitude 5520	C196418CAB1C			
Remark: *the information is provided by applicant.						

2.2 Accessory

Name	Model	Length (cm)	Shielded (Y/N)	Manufacturer
Adapter	XQZ-UC1	/	/	Sony Corporation
USB Cable 1	XQZ-UB1	100	Υ	Sony Corporation
USB Cable 2	UCB20	100	Υ	Sony Corporation
Earphone	MDR-EX15AP	125	1	Sony Corporation

2.3 Test Environment

Temperature:	Normal: 15°C ~ 35°C			
Humidity:	40-75 % RH Ambient			
Test Voltage:	AC 120V/60Hz			
Remark: The testing environment is within the scope of the FLIT user manual and meets the requirements of				

Remark: The testing environment is within the scope of the EUT user manual and meets the requirements of the standard testing environment.

2.4 Modifications

No modifications were made during testing.

2.5 EUT Test Mode

Test Items	Test mode
AC Conducted Emissions	Mode1: Charging(Adapter) + Camera(Rear) + Earphone
	Mode2: Charging(Adapter) + Camera(Front) + Earphone
	Mode3: Charging(Adapter) + MP4 Playing + Earphone(worst case for JBP) Mode4: USB data communication with PC + Earphone
	Mode5: Charging(Adapter) + GSM 850 idle + Earphone
	Mode6: Charging(Adapter) + WCDMA Band V RX + Earphone(worst case for CXX)
	Mode7: Charging(Adapter) + LTE Band 12 RX + Earphone
	Mode8: Charging(Adapter) + Earphone + BT + Wi-Fi + NFC On + GNSS RX
Radiated Emissions	Mode1: Charging(Adapter) + Camera(Rear) + Earphone
	Mode2: Charging(Adapter) + Camera(Front) + Earphone
	Mode3: Charging(Adapter) + MP4 Playing + Earphone
	Mode4: USB data communication with PC + Earphone(worst case for JBP)
	Mode5: Charging(Adapter) + GSM 850 idle + Earphone
	Mode6: Charging(Adapter) + WCDMA Band V RX + Earphone
	Mode7: Charging(Adapter) + LTE Band 12 RX + Earphone(worst case for CXX)
	Mode8: Charging(Adapter) + Earphone + BT + Wi-Fi + NFC On + GNSS RX
NOTE	All modes of operation were investigated, and only the worst case emissions are reported.

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. Tel.: +86-755-27212361

Email: info@towewireless.com TOWE-QP-15-F05 Rev.1.0





3 Equipment and Measurement Uncertainty

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, whichever is less, and where applicable is traceable to recognized national standards.

3.1 Test Equipment List

Radiated Emission						
Description	Manufacturer	Model	S.N.	Last Due	Cal Due	
Biconic Logarithmic Periodic Antennas	Schwarzbeck	VULB9163	1643	2023/06/25	2025/06/24	
Double-Ridged Horn Antennas	Schwarzbeck	BBHA 9120D	2809	2023/06/25	2025/06/24	
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	1290	2023/06/25	2025/06/24	
Signal Analyzer	Keysight	N9020A	MY49100252	2023/04/08	2024/04/07	
EMI Tester Receiver	Rohde & Schwarz	ESR7	102719	2023/08/17	2024/08/16	
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	150645	2023/04/08	2024/04/07	
Low Noise Amplifier	Tonscend	TAP9K3G40	AP23A8060273	2023/04/08	2024/04/07	
Low Noise Amplifier	Tonscend	TAP01018050	AP22G806258	2023/04/08	2024/04/07	
Band Reject Filter Group	Townshend	JS0806-F	23A806F0652	N/A	N/A	
Test Software	Tonscend	TS+	Version: 5.0.0	N/A	N/A	

Conducted Emission							
Description	Description Manufacturer Model S.N. Last Due Cal Due						
EMI Tester Receiver	Rohde & Schwarz	ESR3	103108	2023/07/28	2024/07/27		
LISN	Rohde & Schwarz	ENV 216	102836	2023/04/08	2024/04/07		
Test software	Rohde & Schwarz	ELEKTRA v4.61	N/A	N/A	N/A		

3.2 Measurement Uncertainty

Parameter	U_lab
Conducted Emissions(150KHz~30MHz)	2.43dB
Radiated Emissions(30MHz~1000MHz)	4.66dB
Radiated Emissions(1GHz~18GHHz)	5.42dB
Radiated Emissions(18GHz~40GHHz)	5.46dB

Uncertainty figures are valid to a confidence level of 95%







4 Test Results

4.1 AC Conducted Emissions

Limits

Fraguency ronge (MHz)	Limit (dBµV)								
Frequency range (MHz)	Quasi-peak	Average							
0.15-0.5	66 to 56*	56 to 46*							
0.5-5	56	46							
5-30	60	50							
* Decreases with the logarithm of the frequency.									

Test Procedure

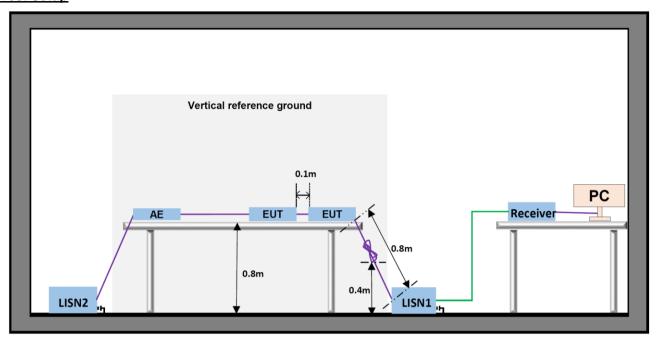
ANSI C63.4-2014.

Test Settings

- 1. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 2. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 3. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 4. Set the test-receiver system to Peak detect function and specified bandwidth (if bandwidth =9kHz) with maximum hod mode. Then measurement is also conducted by average detector and Quasi-Peak detector function respectively.
- 5. Both sides of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4 on conducted measurement.



Test Setup

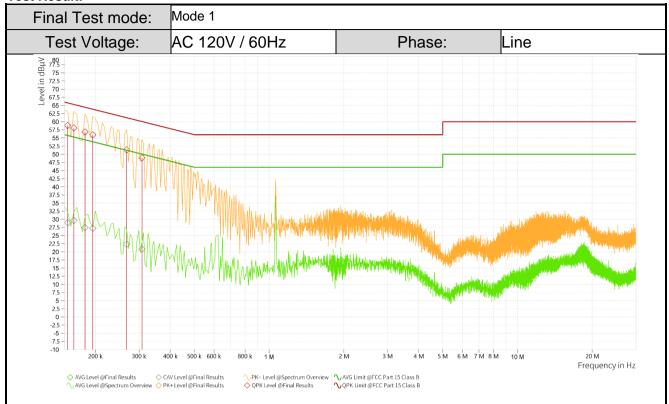


Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.



Test Result:

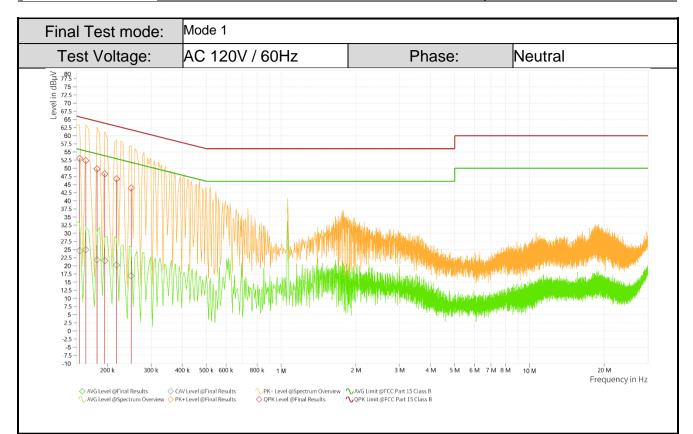


Frequency [MHz]	CAV Level [dBµV]	CAV: AVG Limit [dBµV]	CAV Margin [dB]	CAV Raw Lvl [dBµV]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	QPK Raw Lvl [dBµV]	Correction [dB]	Line
0.155	28.93	55.75	26.82	18.45	58.83	65.75	6.93	48.34	10.48	L1
0.164	29.69	55.28	25.60	19.21	58.06	65.28	7.22	47.58	10.48	L1
0.182	27.47	54.42	26.95	16.98	56.82	64.42	7.60	46.33	10.49	L1
0.195	27.26	53.82	26.56	16.77	55.95	63.82	7.87	45.46	10.49	L1
0.267	22.31	51.21	28.91	11.80	51.32	61.21	9.89	40.81	10.51	L1
0.308	20.87	50.04	29.17	10.35	48.93	60.04	11.11	38.41	10.52	L1

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Level = Raw LvI [dBµV] + Correction (LISN factor[dB] + Cable loss[dB]).
- 3. Margin=Limit Level



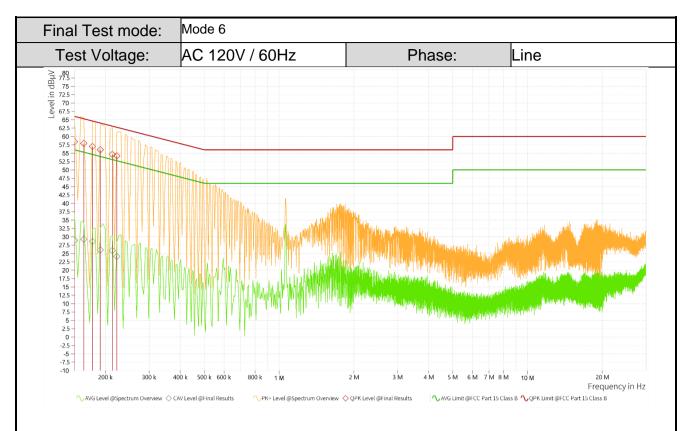




Frequency [MHz]	CAV Level [dBµV]	CAV: AVG Limit [dBµV]	CAV Margin [dB]	CAV Raw Lvl [dBµV]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	QPK Raw Lvl [dBµV]	Correction [dB]	Line
0.155	24.67	55.75	31.08	14.24	53.03	65.75	12.73	42.60	10.43	N
0.164	24.97	55.28	30.31	14.55	52.33	65.28	12.95	41.92	10.42	N
0.182	21.85	54.42	32.57	11.44	49.76	64.42	14.66	39.35	10.41	N
0.195	21.60	53.82	32.22	11.19	48.25	63.82	15.57	37.85	10.41	N
0.218	20.28	52.91	32.63	9.88	46.74	62.91	16.18	36.33	10.40	N
0.249	16.93	51.79	34.86	6.53	43.89	61.79	17.90	33.48	10.40	N

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Level = Raw LvI [dB μ V] + Correction (LISN factor[dB] + Cable loss[dB]).
- 3. Margin=Limit Level

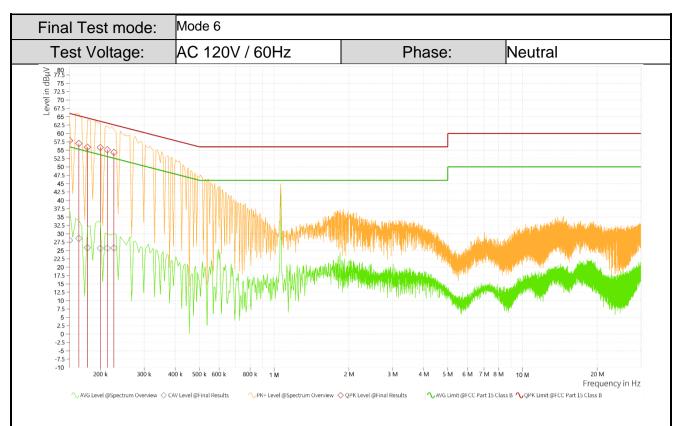




Frequency [MHz]	CAV Level [dBµV]	CAV: AVG Limit [dBµV]	CAV Margin [dB]	CAV Raw Lvl [dBµV]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	QPK Raw Lvl [dBµV]	Correction [dB]	Line
0.150	28.95	56.00	27.05	18.47	58.48	66.00	7.52	48.00	10.48	L1
0.164	29.28	55.28	26.00	18.80	57.93	65.28	7.36	47.44	10.48	L1
0.177	28.66	54.63	25.96	18.17	56.99	64.63	7.64	46.50	10.49	L1
0.191	26.08	54.01	27.93	15.59	56.03	64.01	7.98	45.54	10.49	L1
0.213	25.89	53.09	27.20	15.40	54.65	63.09	8.44	44.15	10.49	L1
0.222	24.11	52.74	28.63	13.61	54.18	62.74	8.57	43.68	10.50	L1

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Level = Raw LvI [dBµV] + Correction (LISN factor[dB] + Cable loss[dB]).
- 3. Margin=Limit Level





Frequency [MHz]	CAV Level [dBµV]	CAV: AVG Limit [dBµV]	CAV Margin [dB]	CAV Raw Lvl [dBµV]	QPK Level [dBµV]	QPK Limit [dBµV]	QPK Margin [dB]	QPK Raw Lvl [dBµV]	Correction [dB]	Line
0.150	28.07	56.00	27.93	17.64	57.86	66.00	8.14	47.43	10.43	N
0.164	28.61	55.28	26.67	18.19	57.00	65.28	8.29	46.58	10.42	N
0.177	25.83	54.63	28.80	15.41	55.89	64.63	8.74	45.47	10.42	N
0.200	25.70	53.63	27.93	15.30	55.82	63.63	7.81	45.42	10.40	N
0.213	25.68	53.09	27.41	15.27	55.14	63.09	7.95	44.74	10.40	N
0.227	25.75	52.58	26.83	15.34	54.35	62.58	8.23	43.94	10.40	Ν

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Level = Raw LvI [dBµV] + Correction (LISN factor[dB] + Cable loss[dB]).
- 3. Margin=Limit Level

4.2 Radiated Emissions

Limits

Frequency	Field strength (µV/m)	Limit (dBµV/m)	Remark	Measurement distance (m)
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	74.0	Peak	2
Above 1GHz	500	54.0	Average	3

Test Procedure

ANSI C63.4:2014

Test Settings

- For radiated emissions measurements performed at frequencies less than or equal to 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80cm above the reference ground plane.
- 2. For radiated emissions measurements performed at frequencies above 1GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80cm above the ground plane.
- 3. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1m to 4m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e, field strength or received power), when orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25cm.
- 4. For each suspected emission, the EUT was ranged to its worst case and then tune the antenna tower(from 1~4m) and turntable(from 0~360°) to find the maximum reading. Preamplifier and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Exploratory radiated emissions testing of handheld and/or body-worn devices shall include0rotation of the EUT through three orthogonal axes (X/YIZ Plane) to determine the orientation(attitude) that maximizes the emissions.
- 6. For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for Quasi-peak detection measurements in the 30~1000MHz range.
- 7. For measurements above 1GHz the resolution bandwidth is set to 1MHz and the video resolution is set to 3MHz, the peak emission measurement will be measured by the peak detector, the average emission measurement will be measured by the average detector.
- 8. The field strength is calculated by adding the Antenna Factor, Cable Factor. The basic equation with a sample calculation is as follows:

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Level($dB\mu V/m$)

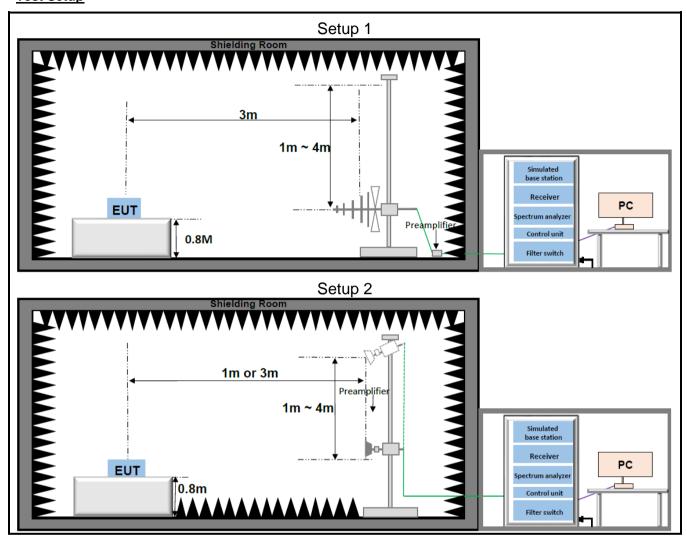
- 9. Repeat above procedures until all frequencies measured was complete.
- 10. Measure and record the results in the test report.

Test notes

- 1. Radiated emissions were measured from 30MHz 40GHz to ensure that the provisions of 15.33(b)(1) are satisfied with respect to the upper frequency scanning range. No Spurious emissions were detected within 20dB of the limit above 18GHz.
- 2. The "/" shown in the following Test Result tables are used to denote a noise floor measurement.



Test Setup



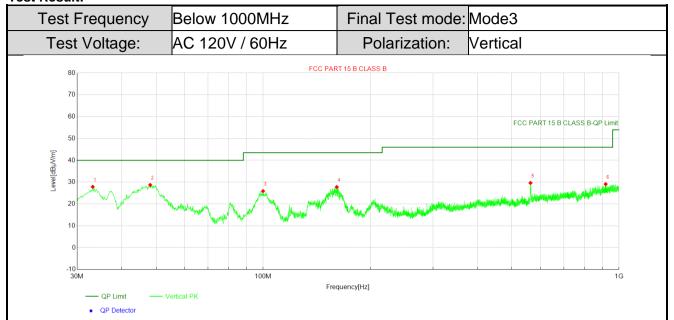
Measuring Instruments

The measuring equipment is listed in the section 3.1 of this test report.





Test Result:

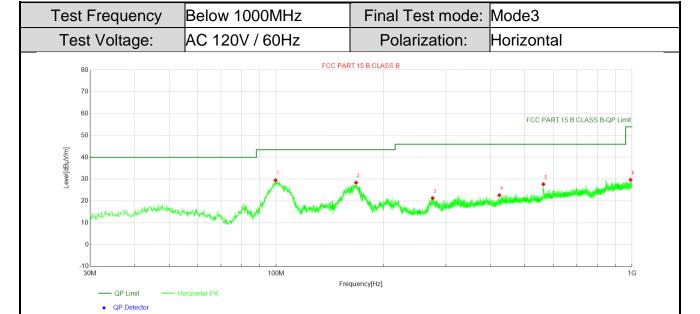


NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Trace	Polarity	Verdict
1	33.201	53.25	-25.37	27.88	40.00	12.12	143	191	PK	Vertical	PASS
2	48.139	52.21	-23.47	28.74	40.00	11.26	172	176	PK	Vertical	PASS
3	99.937	50.30	-24.38	25.92	43.50	17.58	204	338	PK	Vertical	PASS
4	161.047	53.94	-26.16	27.78	43.50	15.72	277	117	PK	Vertical	PASS
5	563.888	43.74	-14.08	29.66	46.00	16.34	268	49	PK	Vertical	PASS
6	917.259	37.76	-8.65	29.11	46.00	16.89	216	101	PK	Vertical	PASS

- 1. The Peak measurements were performed on the EUT.
- 2. Level = Reading($dB_{\mu}V$) + Factor(dB):
- 3. Factor = Cable Factor(dB) + AF(dB/m) Preamplifier gain(dB)
- 4. AF = Antenna Factor(dB/m)
- 5. Margin = Limit($dB_{\mu}V/m$) Value($dB_{\mu}V/m$)







NO	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Trace	Polarity	Verdic
1	99.646	53.47	-23.98	29.49	43.50	14.01	240	107	PK	Horizontal	PASS
2	167.74	54.29	-25.92	28.37	43.50	15.13	214	288	PK	Horizontal	PASS
3	275.313	42.40	-21.07	21.33	46.00	24.67	141	257	PK	Horizontal	PASS
4	423.82	40.29	-17.62	22.67	46.00	23.33	232	160	PK	Horizontal	PASS
5	563.694	41.85	-14.17	27.68	46.00	18.32	198	111	PK	Horizontal	PASS
6	991.464	37.54	-7.84	29.70	54.00	24.30	255	232	PK	Horizontal	PASS

- 1. The Peak measurements were performed on the EUT.
- 2. Level = Reading($dB_{\mu}V$) + Factor(dB):
- 3. Factor = Cable Factor(dB) + AF(dB/m) Preamplifier gain(dB)
- 4. AF = Antenna Factor(dB/m)
- 5. Margin = Limit($dB_{\mu}V/m$) Value($dB_{\mu}V/m$)



Mode3



Test Frequency

			500	DADT 45 D OLA	20 B			
100			FUC	PART 15 B CLA	55 B			
90								
80								
							FCC PA	RT 15 B CLASS B-PK Limit
70								
E 60)						FCC PA	RT 15 B CLASS B-AV Limit
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Final Test mode:

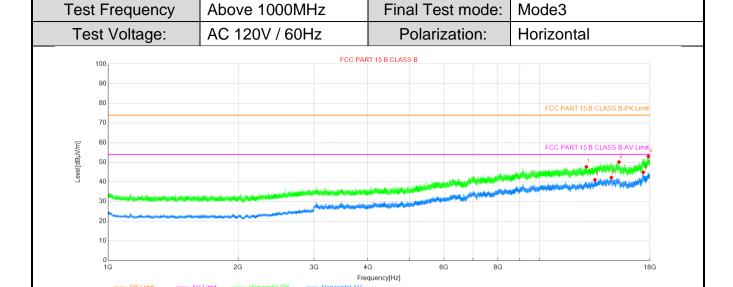
Above 1000MHz

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	12783	42.02	5.87	47.89	74.00	26.11	/	/	Vertical
2	14665.5	40.58	9.49	50.07	74.00	23.93	/	/	Vertical
3	17350.5	39.86	12.84	52.70	74.00	21.30	/	/	Vertical
4	13016.5	35.18	6.01	41.19	54.00	12.81	/	/	Vertical
5	14664	33.01	9.53	42.54	54.00	11.46	/	/	Vertical
6	17962	31.63	12.94	44.57	54.00	9.43	/	/	Vertical

- 1. The Peak measurements were performed on the EUT.
- 2. Level = Reading($dB_{\mu}V$) + Factor(dB):
- 3. Factor = Cable Factor(dB) + AF(dB/m) Preamplifier gain(dB)
- 4. AF = Antenna Factor(dB/m)
- 5. Margin = Limit($dB_{\mu}V/m$) Value($dB_{\mu}V/m$)







 _									
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	12820.5	41.79	5.90	47.69	74.00	26.31	/	/	Horizontal
2	15254	40.81	9.29	50.10	74.00	23.90	/	/	Horizontal
3	17848.5	39.60	13.40	53.00	74.00	21.00	/	/	Horizontal
4	13418	34.03	7.04	41.07	54.00	12.93	/	/	Horizontal
5	14648.5	32.35	9.88	42.23	54.00	11.77	/	/	Horizontal
6	17366	32.66	12.24	44.90	54.00	9.10	/	/	Horizontal

Note:

1. The Peak measurements were performed on the EUT.

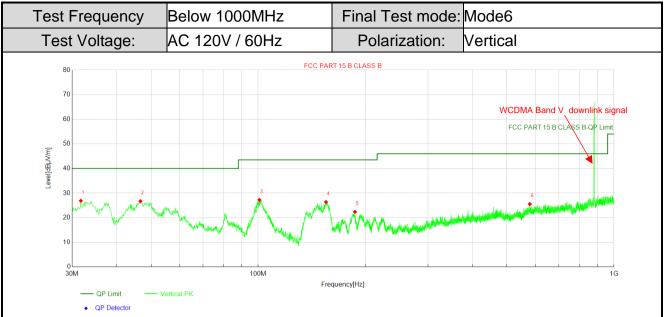
AV Detector

- 2. Level = Reading($dB_{\mu}V$) + Factor(dB):
- 3. Factor = Cable Factor(dB) + AF(dB/m) Preamplifier gain(dB)
- 4. AF = Antenna Factor(dB/m)

PK Detector

5. Margin = Limit($dB_{\mu}V/m$) - Value($dB_{\mu}V/m$)

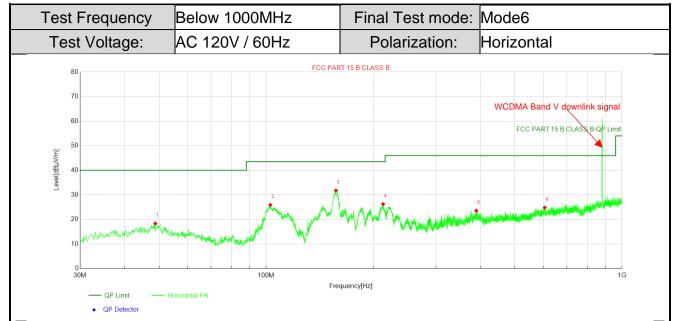




NO.	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Trace	Polarity	Verdict
1	31.746	52.58	-25.72	26.86	40.00	13.14	203	62	PK	Vertical	PASS
2	46.684	49.99	-23.29	26.70	40.00	13.30	247	179	PK	Vertical	PASS
3	100.81	51.82	-24.57	27.25	43.50	16.25	266	358	PK	Vertical	PASS
4	155.13	52.44	-26.09	26.35	43.50	17.15	158	130	PK	Vertical	PASS
5	187.14	47.03	-24.67	22.36	43.50	21.14	216	141	PK	Vertical	PASS
6	579.99	38.35	-12.81	25.54	46.00	20.46	241	121	PK	Vertical	PASS

- 1. The Peak measurements were performed on the EUT.
- 2. Level = Reading($dB_{\mu}V$) + Factor(dB):
- 3. Factor = Cable Factor(dB) + AF(dB/m) Preamplifier gain(dB)
- 4. AF = Antenna Factor(dB/m)
- 5. Margin = Limit($dB_{\mu}V/m$) Value($dB_{\mu}V/m$)





NO	Freq. [MHz]	Reading [dBuV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Trace	Polarity	Verdic
1	48.818	41.47	-23.17	18.30	40.00	21.70	253	233	PK	Horizontal	PASS
2	102.75	49.89	-24.01	25.88	43.50	17.62	173	91	PK	Horizontal	PASS
3	157.07	58.16	-26.40	31.76	43.50	11.74	264	293	PK	Horizontal	PASS
4	213.233	50.29	-24.06	26.23	43.50	17.27	181	273	PK	Horizontal	PASS
5	389.579	40.62	-17.07	23.55	46.00	22.45	241	308	PK	Horizontal	PASS
6	606.568	37.62	-12.85	24.77	46.00	21.23	279	224	PK	Horizontal	PASS

- 1. The Peak measurements were performed on the EUT.
- 2. Level = Reading($dB_{\mu}V$) + Factor(dB):
- 3. Factor = Cable Factor(dB) + AF(dB/m) Preamplifier gain(dB)
- 4. AF = Antenna Factor(dB/m)
- 5. Margin = Limit($dB_{\mu}V/m$) Value($dB_{\mu}V/m$)





Tes	t Frequency	Above 1000M	Final Test mode:				Mc	Mode6			
Те	est Voltage:	AC 120V / 60Hz		Polarization:				Ve	Vertical		
	100		FCC PAF	RT 15 B CLASS	S B						
	90										
	80								FCC PART 15 B CLASS B-PK Lin	mit	
	70										
(m)	60								FCC PART 15 B CLASS B-AV Lii	mit ₃	
Level[dBµV/m]	50								1 2	1 6	
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	— PK Limit — AV	V Limit — Vertical PK —	- Vertical AV	equency[Hz]							
	◆ PK Detector ◆ A	AV Detector									

NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	13475	41.43	6.89	48.32	74.00	25.68	/	/	Vertical
2	15233	40.79	8.95	49.74	74.00	24.26	/	/	Vertical
3	17847.5	39.13	13.39	52.52	74.00	21.48	/	/	Vertical
4	13423.5	34.13	7.02	41.15	54.00	12.85	/	/	Vertical
5	14667	32.27	9.45	41.72	54.00	12.28	/	/	Vertical
6	17964.5	31.30	12.98	44.28	54.00	9.72	/	/	Vertical

- 1. The Peak measurements were performed on the EUT.
- 2. Level = Reading($dB_{\mu}V$) + Factor(dB):
- 3. Factor = Cable Factor(dB) + AF(dB/m) Preamplifier gain(dB)
- 4. AF = Antenna Factor(dB/m)
- 5. Margin = Limit($dB_{\mu}V/m$) Value($dB_{\mu}V/m$)



Final Test mode: Mode6



Test Frequency

1000	Voltage:	7.0	12017	/ 60Hz		Polari	Lano	• • •		rizontal
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90)									
80)									FCC PART 15 B CLASS B-PK Lim
70)									
€ 60)									FCC PART 15 B CLASS B-AV Lim
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NC	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	12827.5	41.43	5.89	47.32	74.00	26.68	/	/	Horizontal
2	14664	39.68	9.53	49.21	74.00	24.79	/	/	Horizontal
3	17801.5	39.36	12.71	52.07	74.00	21.93	/	/	Horizontal
4	12819	34.36	5.91	40.27	54.00	13.73	/	/	Horizontal
5	14354.5	33.20	9.26	42.46	54.00	11.54	/	/	Horizontal
6	17980	31.25	13.18	44.43	54.00	9.57	/	/	Horizontal

Note:

1. The Peak measurements were performed on the EUT.

AV Detector

2. Level = Reading($dB_{\mu}V$) + Factor(dB):

PK Detector

3. Factor = Cable Factor(dB) + AF(dB/m) - Preamplifier gain(dB)

Above 1000MHz

- 4. AF = Antenna Factor(dB/m)
- 5. Margin = Limit($dB_{\mu}V/m$) Value($dB_{\mu}V/m$)



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4.3 Test Setup Photos

The detailed test data see: Test Setup Photos

~The End~