



Test Report

Report No.: RKEYS250826337

Date: Sep.14, 2025

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FCC RF TEST REPORT

For

Product: WIRELESS PORTABLE CHARGER

Model: W18

FCC ID: 2BK6L-W18

Report No.: RKEYS250826337

Issued for

Zhengzhou Yeming Trading Co., Ltd.

**Room 501, Unit 1, Building 8, Jinshui Garden West District, No. 39, Weisi Road East,
Weilai Road, Jinshui District, Zhengzhou City, Henan Province, China**

Issued by

Guangdong KEYS Testing Technology Co., Ltd.

**Building 1, No.18, Shihuan Road, Dongcheng Subdistrict, Dongguan, Guangdong,
China**

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1. TEST CERTIFICATION

Product:	WIRELESS PORTABLE CHARGER
Trade mark:	/
Model:	W18
Applicant :	Zhengzhou Yeming Trading Co., Ltd.
Address:	Room 501, Unit 1, Building 8, Jinshui Garden West District, No. 39, Weisi Road East, Weilai Road, Jinshui District, Zhengzhou City, Henan Province, China
Manufacturer:	Shenzhen Xuhan Technology Co., Ltd.
Address:	Room 2801, Chuanghui Building, Wuhe Community, Bantian Street, Longgang District, Shenzhen, China
Sample Receive Date:	Aug.26, 2025
Test Date:	Aug.26, 2025~Sep.14, 2025
Applicable Standards:	CFR 47, FCC Part 15.215
Application Purpose	Original Grant

The above equipment has been tested by Guangdong KEYS Testing Technology Co., Ltd. and found compliance with the requirements in the technical standards mentioned above. The test results presented in this report only relate to the product/system tested. The other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.



Prepared by:

Evan Fang / Engineer



Approved by:

Bruce Zhang / Manager

2. TEST SUMMARY

FCC Part 15C	Description of Test	Result
15.203	Antenna Requirement	Pass
15.215(c)	20dB Occupied Bandwidth	Pass
15.209	Radiated Spurious Emissions	Pass
15.207	Conducted Emission on AC Mains	Pass

3. TEST SITE

3.1. TEST FACILITY

Guangdong KEYS Testing Technology Co., Ltd.

Address: Building 1, No.18, Shihuan Road, Dongcheng Subdistrict, Dongguan, Guangdong, China

A2LA Certificate Number.:7547.01

FCC Designation Number:CN1419

FCC Test Firm Registration Number:361541

3.2. MEASUREMENT UNCERTAINTY

Parameter	Uncertainty
Conducted Emission(150KHz-30MHz)	$\pm 3.2\text{dB}$
Radiated Emission(9Hz-30MHz)	$\pm 3.5\text{dB}$
Radiated Emission(30MHz-1GHz)	$\pm 4.7\text{dB}$
Radiated Emission (1GHz-6GHz)	$\pm 5.1\text{dB}$
Radiated Emission (6GHz-18GHz)	$\pm 5.1\text{dB}$

Note 1: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

3.3. Test Environment Condition

Ambient Temperature:	24~25°C
Ambient Relative Humidity:	55~60 %

4. TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	KEYS-EL-203	Mar. 03, 2025	1 Year
Pulse limiter	Rohde&Schwarz	ESH3-Z2	KEYS-EL-201	Mar. 03, 2025	1 Year
LISN	Rohde&Schwarz	ENV216	KEYS-EL-202	Mar. 03, 2025	1 Year
Shielding Room	Taihe Mao Rui Electronic Equipment Co., Ltd.	8m*4m*4m	KEYS-EL-230	2024 / 10 / 12	5 Year
EMI Test Receiver	Rohde&Schwarz	ESCI7	KEYS-EL-205	Mar. 03, 2025	1 Year
Logarithmic Periodic Broadband Antenna	SCHWARZBECK	VULB9168	KEYS-EL-209	Mar. 06, 2025	3 Year
Anechoic Chamber	Taihe Mao Rui Electronic Equipment Co., Ltd.	9m*6m*6m	KEYS-EL-230	2024 / 10/ 12	5 Year
Loop Antenna	Da Ze	ZN30900C	KEYS-EL-253	May 16, 2025	3 Year
Filter	WCS Technology	ZBSF6-C2400-2483.5-294	KEYS-EL-270	May 17, 2025	1 Year
Power switching box	WCS Technology	SMU-3002	KEYS-EL-247	Apr. 16, 2025	1 Year

Note:The attenuator is integrated into the Power Switch Box and taken into consideration during testing.

5. EUT DESCRIPTION

Product	WIRELESS PORTABLE CHARGER
Test Model	W18
Additional Model	/
Rating	Type-C Input : 5V ~~----~~ 3A, 9V ~~----~~ 2A, 12V ~~----~~ 1.5A Wireless output: 15W 10W 7.5W 5W (Max 15W)
FCC ID	2BK6L-W18
Antenna Type	Coil Antenna
Antenna Gain	0dBi
Operation Frequency	110-205kHz
Modulation Type	ASK
Note: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2) Antenna gain was provided by the applicant/ manufacturer, and the applicant/ manufacturer is responsible for its validity. 3) The test results in the report only apply to the tested sample.	

6. TEST METHODOLOGY

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10-2020.

6.1. EUT SYSTEM OPERATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables were manipulated to produce worst case emissions. The EUT was powered by DC 5V during the test.

7. SETUP OF EQUIPMENT UNDER TEST

7.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support Equipment

No.	Equipment	Model	Serial No.	Manufacturer
1	Adapter	MDY-14-EE	/	MI
2	Wireless Charging Load	/	/	EESON

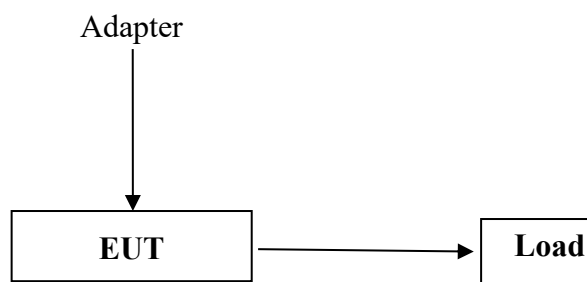
Support Cable

No.	Description	Shield	Length	Manufacturer
1	/	/	/	/
2	/	/	/	/

Note: 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

7.2. BLOCK DIAGRAM OF EUT CONFIGURATION



(EUT: WIRELESS PORTABLE CHARGER)

7.3. DESCRIPTION OF TEST MODES

Test Mode	Description
Mode 1	Adapter + EUT+ Wireless Charging load (5W)
Mode 2	Adapter + EUT+ Wireless Charging load (7.5W)

Mode 3	Adapter + EUT+ Wireless Charging load (10W)
Mode 4	Adapter + EUT+ Wireless Charging load (15W)
Mode 5	EUT+ Wireless Charging load (5W)
Mode 6	EUT+ Wireless Charging load (7.5W)
Mode 7	EUT+ Wireless Charging load (10W)
Mode 8	EUT+ Wireless Charging load (15W)

Note:

1. All test modes has been tested, this report only reflected the worst mode.
2. Mode 4 is worst case for Conducted Emission and Spurious Emission.

8. TEST RESULTS AND MEASUREMENT DATA

8.1. ANTENNA REQUIREMENT

Test Requirement:	Part 15.203
Test Result:	According to the manufacturer declared, the EUT has a coil antenna, the directional gain of antenna is 0dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision. Refer to EUT Photo for further details.

8.2. 20DB BANDWIDTH

Test Requirement:	FCC Part15.215 (c)
Test Mode:	Transmitting mode with modulation
Limit:	/
Test Procedure:	1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidth , measurement. 4.The RBW is set to 1 kHz to perform the occupied bandwidth test.VBW$\geq$ RBW; Sweep = auto; Detector function =peak; Trace = max hold. 4. Measure and record the results in the test report.
Test Result:	PASS

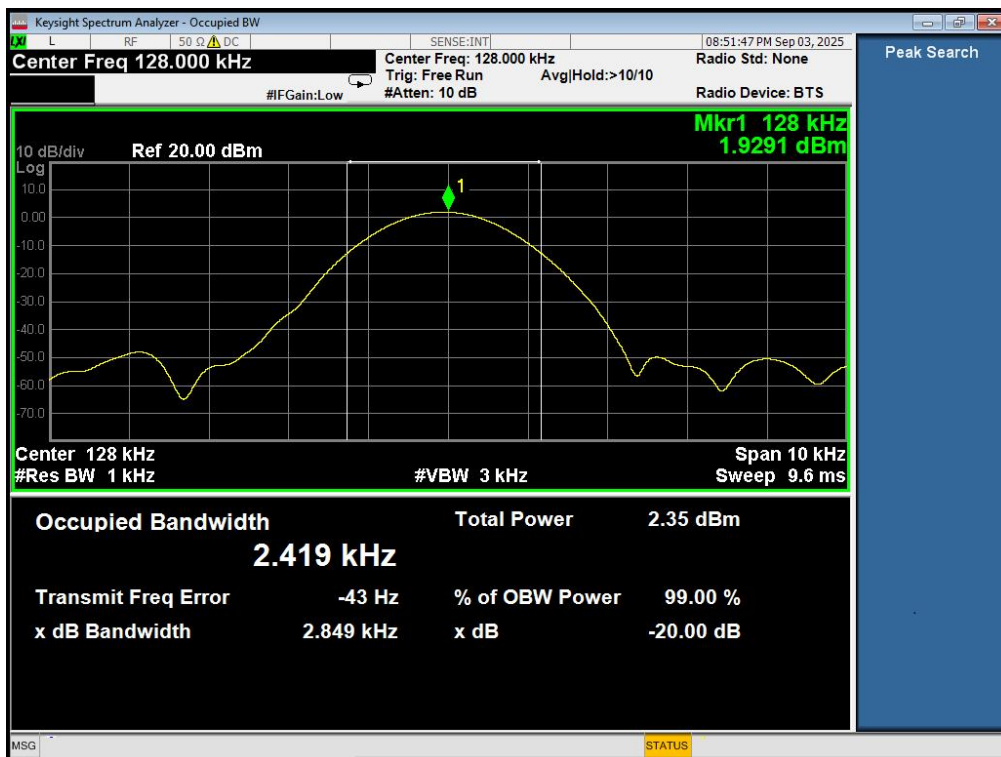
8.2.1.Test Setup:



8.2.2.Test Result

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 1 KHz to perform the occupied bandwidth test.

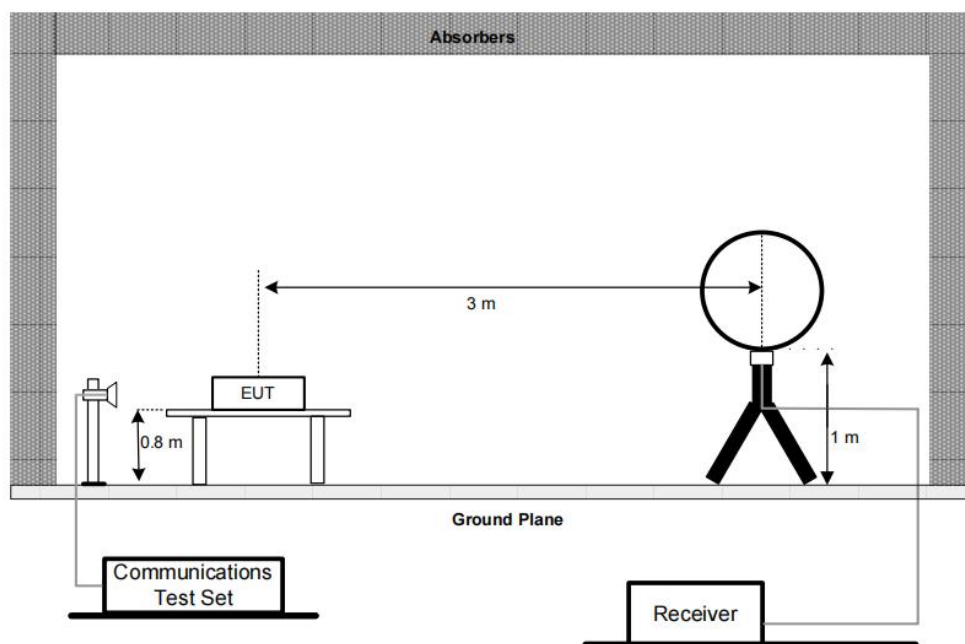
Frequency (kHz)	20dB Bandwidth (kHz)	99%Bandwidth (kHz)
125	2.849	2.419



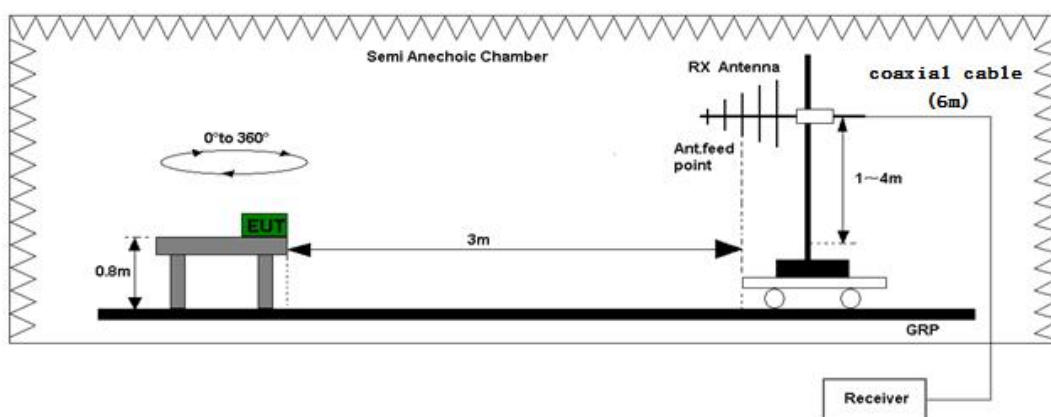
8.3. RADIATED SPURIOUS EMISSIONS

Test Requirement:	FCC Part 15.209		
Test Mode:	Transmitting mode with modulation		
Limit:	Frequency Range (MHz)	Field Strength Limit ($\mu\text{V}/\text{m}$)	Measurement Distance(meters)
	0.009~0.490	2400/F(kHz)	300
	0.490~1.705	24000/F(kHz)	30
	1.705~30.0	30	30
	30-88	100	3
	88-216	150	3
	216-960	200	3
	Above 960	500	3
Test Procedure:	Radiated emission measurements were performed from 9kHz to tenth harmonic or 40GHz. The EUT for testing is arranged on a styrene turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.		
Test Result:	Pass		

8.3.1.Test Setup:



Test set-up of radiated disturbance (Up to 30MHz)



Test set-up of radiated disturbance (30MHz to 1GHz)

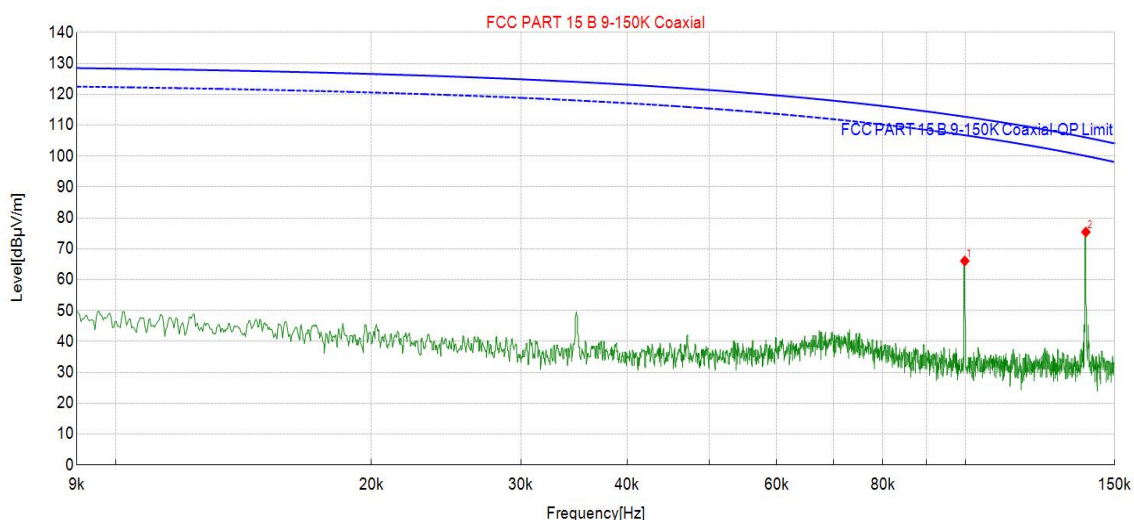
8.3.2. Test Result

Test Voltage	AC 120V/60Hz From Adapter
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Worst-case Mode 4

Spurious Emission 9kHz~30MHz

Please refer to the following diagram:



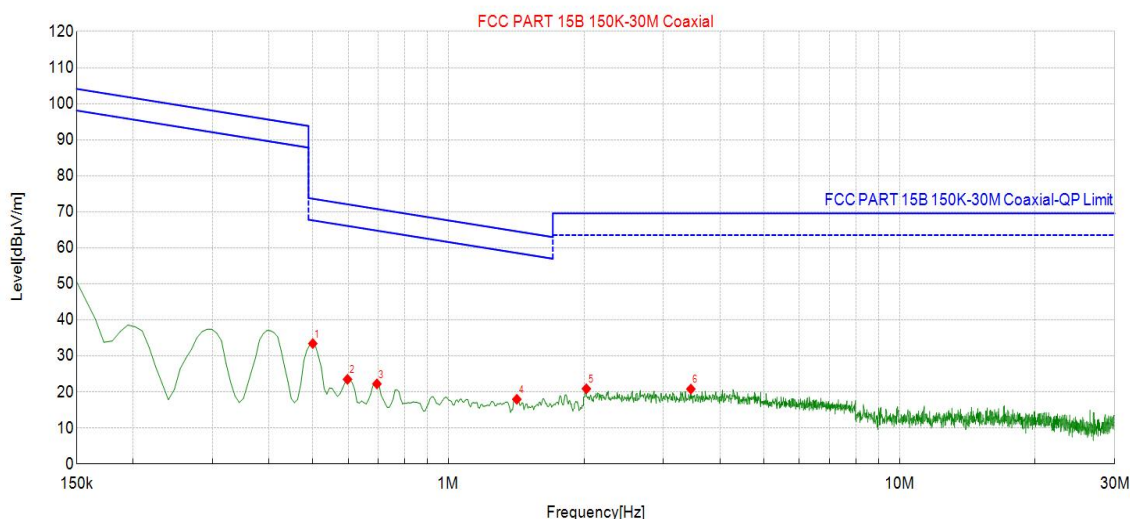
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	0.10	94.15	66.06	-28.09	112.78	46.72	100	53	QP	Hori	PASS
2	0.14	103.99	75.43	-28.56	106.05	30.62	100	35	QP	Hori	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss

Please refer to the following diagram:



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	0.50	64.63	33.43	-31.20	73.61	40.18	100	35	QP	Hori	PASS
2	0.60	54.77	23.50	-31.27	72.07	48.57	100	222	QP	Hori	PASS
3	0.69	53.57	22.24	-31.33	70.77	48.53	100	306	QP	Hori	PASS
4	1.42	49.43	17.97	-31.46	64.57	46.60	100	1	QP	Hori	PASS
5	2.02	52.28	20.89	-31.39	69.54	48.65	100	61	QP	Hori	PASS
6	3.45	51.34	20.81	-30.53	69.54	48.73	100	119	QP	Hori	PASS

Note:(1)Level=Reading+Factor

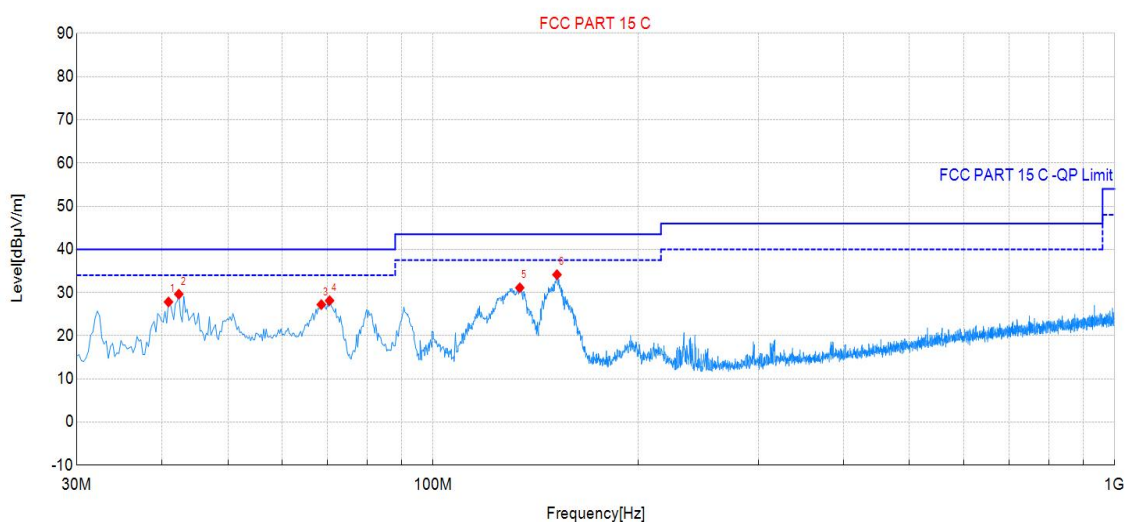
(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss

Spurious Emission 30MHz ~1GHz

Please refer to the following diagram:

Vertical:



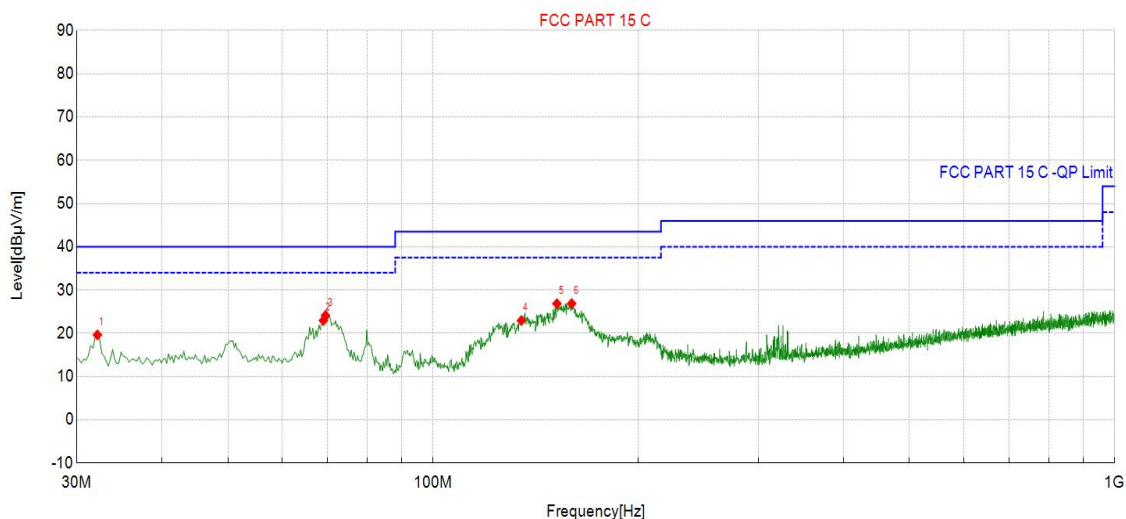
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	40.91	44.86	27.83	-17.03	40.00	12.17	100	167	QP	Vert	PASS
2	42.37	46.68	29.63	-17.05	40.00	10.37	100	109	QP	Vert	PASS
3	68.56	46.53	27.20	-19.33	40.00	12.80	100	204	QP	Vert	PASS
4	70.50	47.72	28.12	-19.60	40.00	11.88	100	204	QP	Vert	PASS
5	134.03	47.90	31.11	-16.79	43.50	12.39	100	317	QP	Vert	PASS
6	151.98	50.27	34.14	-16.13	43.50	9.36	100	297	QP	Vert	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

Horizontal:



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	32.18	37.29	19.63	-17.66	40.00	20.37	100	156	QP	Hori	PASS
2	69.04	42.37	22.96	-19.41	40.00	17.04	100	3	QP	Hori	PASS
3	69.53	43.60	24.12	-19.48	40.00	15.88	100	6	QP	Hori	PASS
4	134.76	39.69	22.95	-16.74	43.50	20.55	100	343	QP	Hori	PASS
5	151.98	42.98	26.85	-16.13	43.50	16.65	100	332	QP	Hori	PASS
6	159.74	42.90	26.88	-16.02	43.50	16.62	100	343	QP	Hori	PASS

Note:(1)Level=Reading+Factor

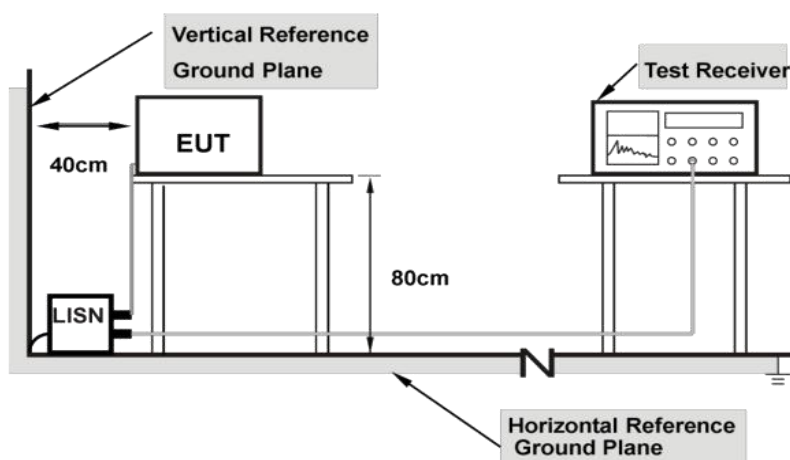
(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

8.4. CONDUCTED EMISSION

Test Requirement:	FCC Part 15.207		
Test Mode:	Transmitting mode with modulation		
Limit:			
	Frequency of Emission (MHz)	Conducted Limit (dBuV)	
		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:	For tabletop equipment, the EUT along with its peripherals were placed on a 1.0m(W)×1.5m(L) and 0.8m in height wooden table. The EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. The excess power cable between the EUT and the LISN was bundled.		
Test Result:	Pass		

8.4.1. Test Setup



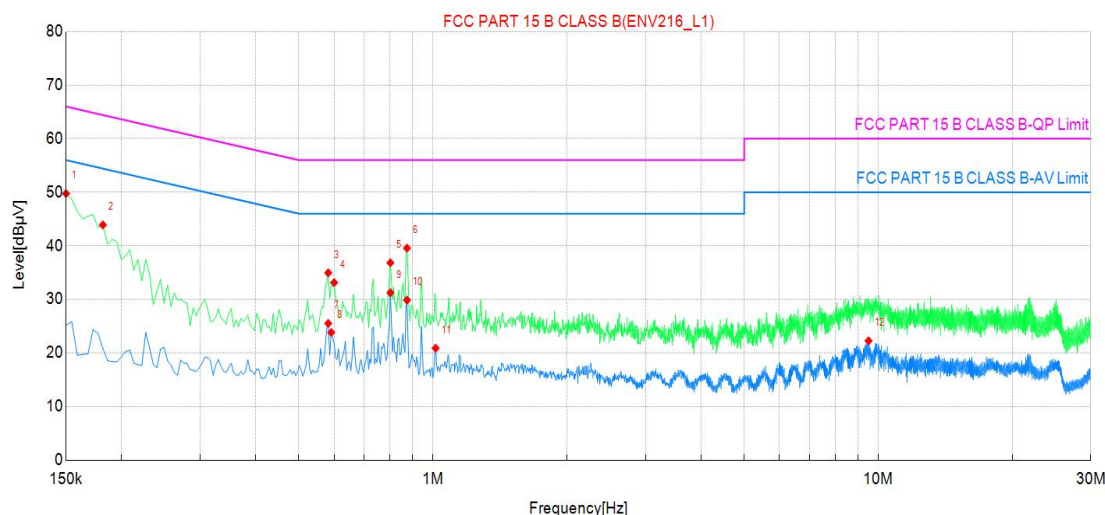
8.4.2. Test Result

Test Voltage	AC 120V/60Hz From Adapter
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Worst-case: Mode 4

Please refer to the following diagram:

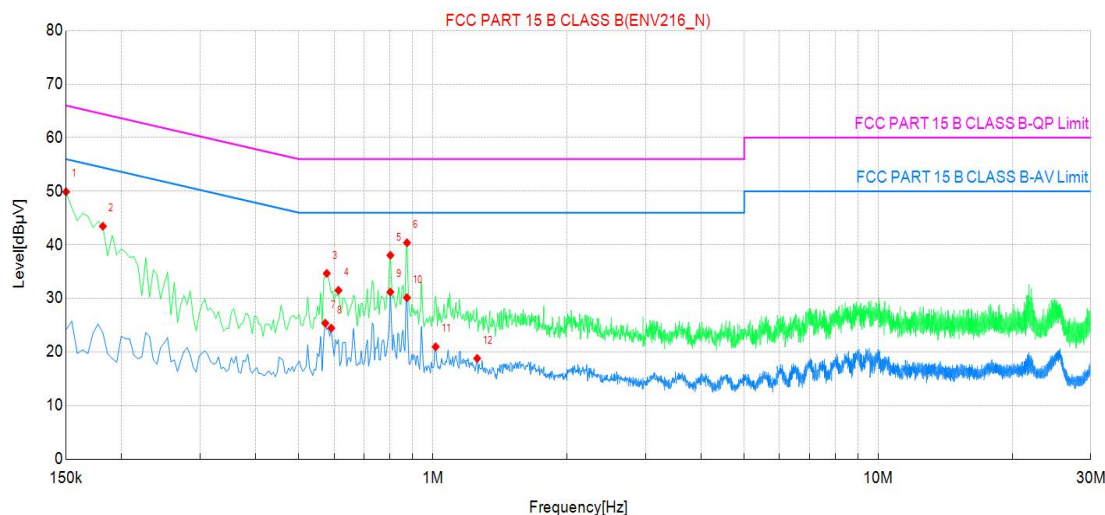
Line:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Phase	Detector	Verdict
1	0.150000	30.46	49.75	19.29	66.00	16.25	L1	QP	PASS
2	0.181500	24.67	43.90	19.23	64.42	20.52	L1	QP	PASS
3	0.582000	15.79	34.96	19.17	56.00	21.04	L1	QP	PASS
4	0.600000	13.95	33.14	19.19	56.00	22.86	L1	QP	PASS
5	0.802500	17.57	36.83	19.26	56.00	19.17	L1	QP	PASS
6	0.874500	20.33	39.57	19.24	56.00	16.43	L1	QP	PASS
7	0.582000	6.34	25.51	19.17	46.00	20.49	L1	AV	PASS
8	0.591000	4.65	23.83	19.18	46.00	22.17	L1	AV	PASS
9	0.802500	11.98	31.24	19.26	46.00	14.76	L1	AV	PASS
10	0.874500	10.64	29.88	19.24	46.00	16.12	L1	AV	PASS
11	1.014000	1.69	20.89	19.20	46.00	25.11	L1	AV	PASS
12	9.510000	2.85	22.26	19.41	50.00	27.74	L1	AV	PASS

Neutral:



Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Phase	Detector	Verdict
1	0.150000	30.70	49.89	19.19	66.00	16.11	N	QP	PASS
2	0.181500	24.28	43.47	19.19	64.42	20.95	N	QP	PASS
3	0.577500	15.43	34.66	19.23	56.00	21.34	N	QP	PASS
4	0.613500	12.24	31.49	19.25	56.00	24.51	N	QP	PASS
5	0.802500	18.78	38.04	19.26	56.00	17.96	N	QP	PASS
6	0.874500	21.14	40.38	19.24	56.00	15.62	N	QP	PASS
7	0.573000	6.14	25.37	19.23	46.00	20.63	N	AV	PASS
8	0.591000	5.21	24.45	19.24	46.00	21.55	N	AV	PASS
9	0.802500	11.93	31.19	19.26	46.00	14.81	N	AV	PASS
10	0.874500	10.89	30.13	19.24	46.00	15.87	N	AV	PASS
11	1.014000	1.76	20.96	19.20	46.00	25.04	N	AV	PASS
12	1.257000	-0.40	18.80	19.20	46.00	27.20	N	AV	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

9. PHOTOGRAPHS OF TEST SET-UP

For photographs of the test set-up, refer to the appendix A.

10. PHOTOGRAPHS OF EUT

For photographs of the EUT, refer to the appendix B.

**** End of Report ****