



FCC Test Report

Report No: FCS202510088W01

Issued for

Applicant:	Shenzhen Shi Ezreal Technology Co.,Ltd
Address:	3rd Floor 3rd Building FuMin Industrial Zone 2. PingHu Street Longgang District 518111 Shenzhen PEOPLE'S REPUBLIC OF CHINA
Product Name:	GaN Power Adapter
Brand Name:	N/A
Model Name:	RCE-6509ACXI
Series Model:	RCE-6509ACXIUS, RCE-6509ACX, RCE-6509ACXUS, UC252, RCE-6509ACXA, RCE-6509ACXAUS, RCE-6509ACXIS, RCE-6509ACXISUS, RCE-6509ACXAS, RCE-6509ACXASUS, GaN-X12
FCC ID:	2BOH4-6509
Issued By: Flux Compliance Service Laboratory Add: Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan Tel: 769-27280901 Fax:769-27280901 http://www.fcs-lab.com	

EST RESULT CERTIFICATION

Applicant's Name: Shenzhenshi Ezreal Technology Co.,Ltd
 Address: 3rd Floor 3rd Building FuMin Industrial Zone 2. PingHu Street
 Longgang District 518111 Shenzhen PEOPLE'S REPUBLIC OF CHINA

Manufacture's Name: Shenzhenshi Ezreal Technology Co.,Ltd
 Address: 3rd Floor 3rd Building FuMin Industrial Zone 2. PingHu Street
 Longgang District 518111 Shenzhen PEOPLE'S REPUBLIC OF CHINA

Product Description

Product Name: GaN Power Adapter
 Brand Name: N/A
 Model Name.....: RCE-6509ACXI
 Series Model: RCE-6509ACXIUS, RCE-6509ACX, RCE-6509ACXUS, UC252,
 RCE-6509ACXA, RCE-6509ACXAUS, RCE-6509ACXIS,
 RCE-6509ACXISUS, RCE-6509ACXAS, RCE-6509ACXASUS,
 GaN-X12
 Test Standards: FCC Rules and Regulations Part 15 Subpart C
 Test Procedure: ANSI C63.10:2013

This device described above has been tested FCS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test.....:

Date (s) of performance of tests.: Oct. 13, 2025 ~ Oct. 17, 2025

Date of Issue: Oct. 17, 2025

Test Result: Pass

Tested by : Scott Shen
 (Scott Shen)

Reviewed by : Duke Qian
 (Duke Qian)

Approved by : Jack Wang
 (Jack Wang)



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Revision History

Rev.	Issue Date	Effect Page	Contents
00	Oct. 17, 2025	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Spurious Emission	15.209(a)(f)	Pass
20dB Bandwidth	15.215	Pass

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report
- (2) All tests are according to ANSI C63.10-2013

1.1 TEST FACTORY

Company Name:	Flux Compliance Service Laboratory
Address:	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan
Telephone:	+86-769-27280901
Fax:	+86-769-27280901
FCC Test Firm Registration Number: 514908 Designation number: CN0127 A2LA accreditation number: 5545.01 CNAS: L15566	

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	± 4.13 dB
2	Conducted Emission (150KHz-30MHz)	± 4.74 dB
3	All emissions, radiated 9kHz-30MHz	± 3.10 dB
4	All emissions, radiated 30MHz-1000MHz	± 3.20 dB
5	Occupied Channel Bandwidth	$\pm 3.5\%$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	GaN Power Adapter
Trade Name	N/A
Model Name	RCE-6509ACXI
Series Model	RCE-6509ACXIUS, RCE-6509ACX, RCE-6509ACXUS, UC252, RCE-6509ACXA, RCE-6509ACXAUS, RCE-6509ACXIS, RCE-6509ACXISUS, RCE-6509ACXAS, RCE-6509ACXASUS, GaN-X12
Model Difference	RCE-6509ACXIS: Based on RCE-6509ACXI, the appearance of the US-standard pins is different and convertible, while everything else remains the same.
Operation frequency	326.5KHz
Modulation Technology	ASK
Antenna Type	Loop coil antenna
Antenna gain	0dBi
Power Supply	Input: 110-240V~50/60Hz 1.5A Output: Output Power: 65W Max USB-C1 Cable/USB-C2:5V=3A,9V=3A,12V=3A, 15V=3A,20V=3.25A USB-A:5V=3A,9V=3A,12V=2.5A Wireless:5V=0.4A USB-C1 Cable+USB-C2: Max 65W (5V=2.4A,9V=2A,12V=2.5A,15V=2A,20V=2.25A+5V =2.4A,9V=2.22A, 12V=1.67A) USB-C1 Cable+USB-A: Max 63W (5V=2.4A,9V=2A,12V=2.5A,15V=2A,20V=2.25A+5V =2.4A,9V=2A,12V=1.5A) USB-C1 Cable+Wireless: Max 62W (5V=3A,9V=3A,12V=3A,15V=3A,20V=3A+5V=0.4A) USB-C2+USB-A:Max 17W(5V=3.4A) USB-C2+Wireless: Max 62W (5V=3A,9V=3A,12V=3A,15V=3A,20V=3A +5V=0.4A) USB-A+Wireless: Max 32W (5V=3A,9V=3A,12V=2.5A+5V=0.4A) USB-C1 Cable+(USB-C2 +USB-A): Max 60W (5V=2.4A,9V=2A,12V=2.5A,15V=2A,20V=2.25A+5V =3A) USB-C1 Cable+USB-C2/USB-A +Wireless: Max 65W (5V=2.4A,9V=2A,12V=2.5A,15V=2A,20V=2.25A+5V =2.4A,9V=2A+5V=0.4A) (USB-C2 +USB-A)+Wireless: Max 19W (5V=3.4A+5V=0.4A) USB-C1 Cable+(USB-C2 +USB-A)+Wireless: Max 62W(5V=2.4A,9V=2A,12V=2.5A,15V=2A,20V=2.25A

	+5V=3A+5V=0.4A)
Hardware version number	V1.0
Software version number	V1.0
Connecting I/O Port(s)	Please refer to the User's Manual

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	CLB	Loop coil antenna	N/A	0	N/A

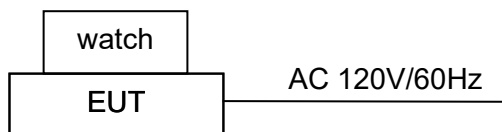
2.2 DESCRIPTION OF THE TEST MODES

Test Mode	Description	
Mode 1	EUT + watch (2W)	Record
Mode 2	USB-C1 Cable+(USB-C2 +USB-A) + watch (2W)	Pre-tested
Mode 3	(USB-C2 +USB-A) + watch (2W)	Pre-tested
Mode 4	USB-C1 Cable+USB-C2/USB-A + watch (2W)	Pre-tested
Mode 5	USB-C1 Cable+(USB-C2 +USB-A)	Pre-tested
Mode 6	USB-A+ watch (2W)	Pre-tested
Mode 7	USB-C2+ watch (2W)	Pre-tested
Mode 8	USB-C1 Cable+ watch (2W)	Pre-tested
Mode 9	USB-C1 Cable+USB-A	Pre-tested
Mode 10	USB-C1 Cable+USB-C2	Pre-tested
Mode 11	Test the EUT in idle mode.	Pre-tested
Note: All test modes were pre-tested, but we only recorded the worst case in this report.		

2.3 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS

EUT was tested in normal configuration (Please See following Block diagram)

Mode 1



Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note

Support units

No.	Equipment	Mfr/Brand	Model No.	Serial No.	Power cord	Signal cord
1	watch	HUAWEI	GT6	N/A	N/A	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.4 EQUIPMENTS LIST

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESRP 3	FCS-E001	2025.08.26	2026.08.25
Signal Analyzer	R&S	FSV40-N	FCS-E012	2025.08.26	2026.08.25
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2025.08.26	2026.08.25
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2025.08.26	2026.08.25
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2025.08.26	2026.08.25
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2025.08.26	2026.08.25
Pre-Amplifier(0.1M-3GHz)	EMCI	EM330N	FCS-E004	2025.08.26	2026.08.25
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2025.08.26	2026.08.25
Pre-Amplifier (18G-40GHz)	TERA-MW	TRLA-0400	FCS-E019	2025.08.26	2026.08.25
Temperature & Humidity	HTC-1	victor	FCS-E005	2025.08.26	2026.08.25
Low frequency cable (9k-1GHz)	Gemma Technology	R03	FCS-E031	2025.08.26	2026.08.25
Low frequency cable (1-18GHz)	Gemma Technology	R04	FCS-E032	2025.08.26	2026.08.25
Low frequency cable (18-40GHz)	Gemma Technology	R05	FCS-E033	2025.08.26	2026.08.25
Testing Software	EZ-EMC(Ver.STSLAB 03A1 RE)				

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	FCS-E020	2025.08.26	2026.08.25
LISN	R&S	ENV216	FCS-E007	2025.08.26	2026.08.25
LISN	ETS	3810/2NM	FCS-E009	2025.08.26	2026.08.25
Temperature & Humidity	HTC-1	victor	FCS-E008	2025.08.26	2026.08.25
Testing Software	EZ-EMC(Ver.EMC-CON 3A1.1)				

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
MXA SIGNAL Analyzer	Keysight	N9020A	FCS-E015	2025.08.26	2026.08.25
Spectrum Analyzer	Agilent	E4447A	MY50180039	2025.08.26	2026.08.25
Spectrum Analyzer	R&S	FSV-40	101499	2025.08.26	2026.08.25

3. CONDUCTED EMISSION MEASUREMENT

3.1 LIMIT

Operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

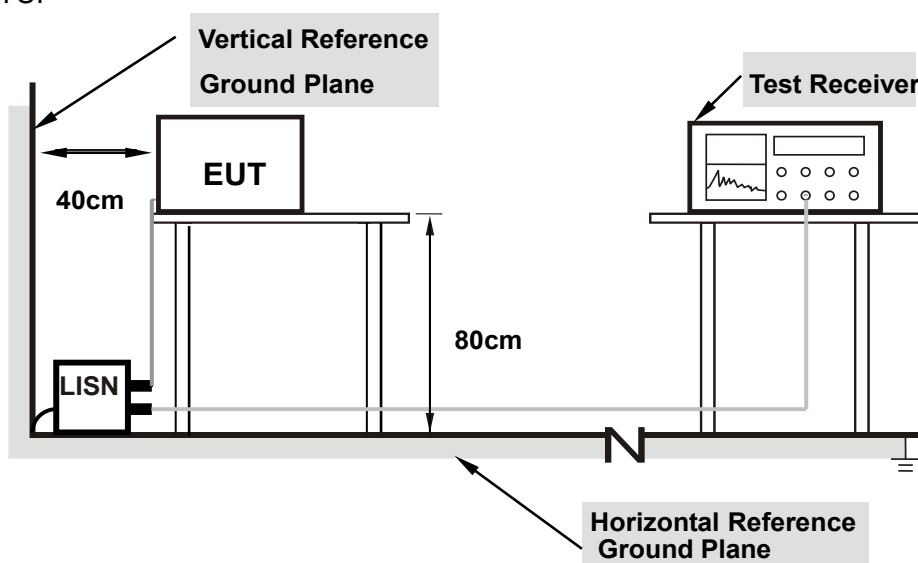
3.2 TEST PROCEDURE

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP

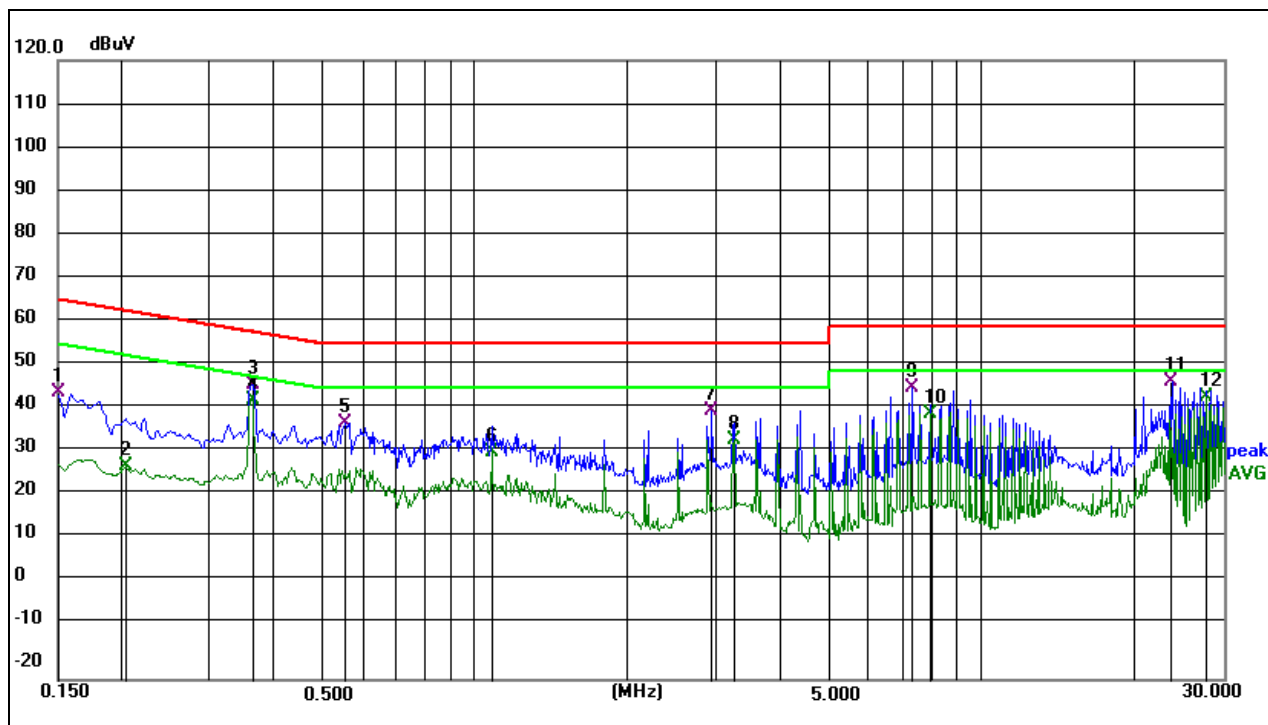


Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

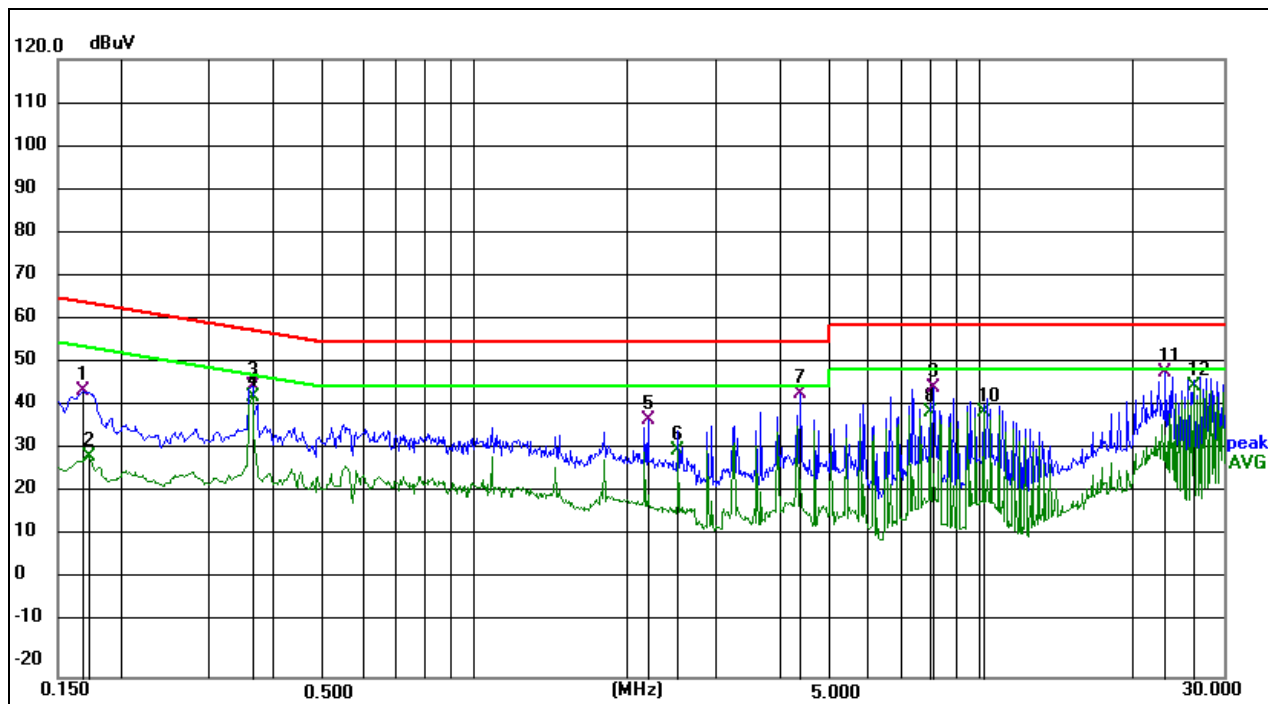
3.4 TEST RESULTS

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Phase:	L
Test Voltage :	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	33.29	11.84	45.13	66.00	-20.87	QP
2	0.2040	17.80	10.70	28.50	53.45	-24.95	AVG
3	0.3615	36.10	10.69	46.79	58.69	-11.90	QP
4 *	0.3615	32.65	10.69	43.34	48.69	-5.35	AVG
5	0.5550	27.42	10.68	38.10	56.00	-17.90	QP
6	1.0815	20.80	10.66	31.46	46.00	-14.54	AVG
7	2.9310	30.02	10.79	40.81	56.00	-15.19	QP
8	3.2415	23.56	10.84	34.40	46.00	-11.60	AVG
9	7.3230	34.80	11.05	45.85	60.00	-14.15	QP
10	7.9215	28.97	11.06	40.03	50.00	-9.97	AVG
11	23.8154	35.57	11.76	47.33	60.00	-12.67	QP
12	27.7170	32.21	11.66	43.87	50.00	-6.13	AVG

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1680	34.21	10.67	44.88	65.06	-20.18	QP
2	0.1725	19.51	10.68	30.19	54.84	-24.65	AVG
3	0.3615	35.46	10.68	46.14	58.69	-12.55	QP
4	0.3615	32.99	10.68	43.67	48.69	-5.02	AVG
5	2.1975	27.75	10.78	38.53	56.00	-17.47	QP
6	2.5215	20.69	10.78	31.47	46.00	-14.53	AVG
7	4.3980	33.26	11.00	44.26	56.00	-11.74	QP
8	7.9215	29.12	11.04	40.16	50.00	-9.84	AVG
9	8.0610	34.72	11.04	45.76	60.00	-14.24	QP
10	10.0815	29.14	11.00	40.14	50.00	-9.86	AVG
11	23.0415	37.60	11.68	49.28	60.00	-10.72	QP
12 *	26.2770	34.40	11.70	46.10	50.00	-3.90	AVG

Remark: Correct Factor = Insertion loss of LISN + Cable loss + Insertion loss of Pulse Limiter;

Measurement Result = Reading Level +Correct Factor;

Margin = Measurement Result- Limit;

4. RADIATED EMISSION MEASUREMENT

4.1 LIMIT

In any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

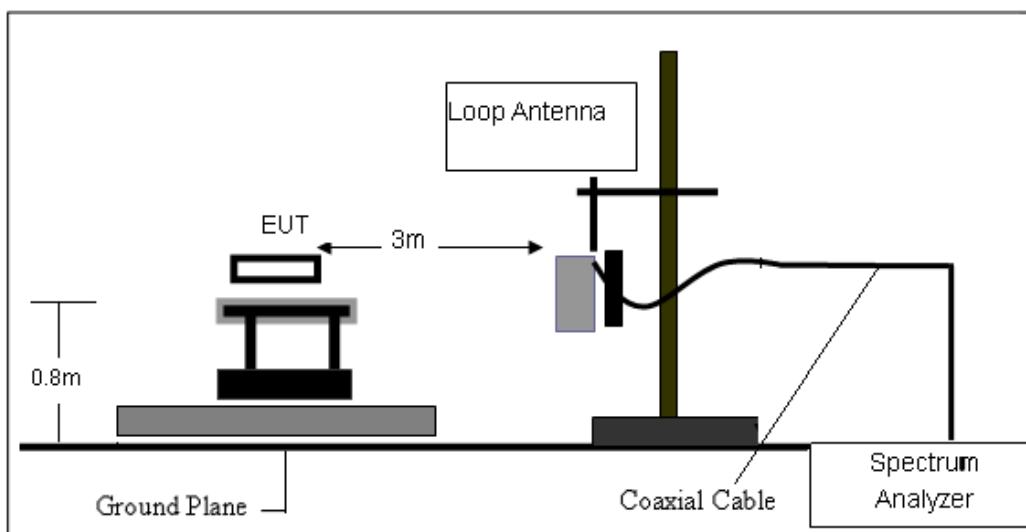
Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Receiver setup:

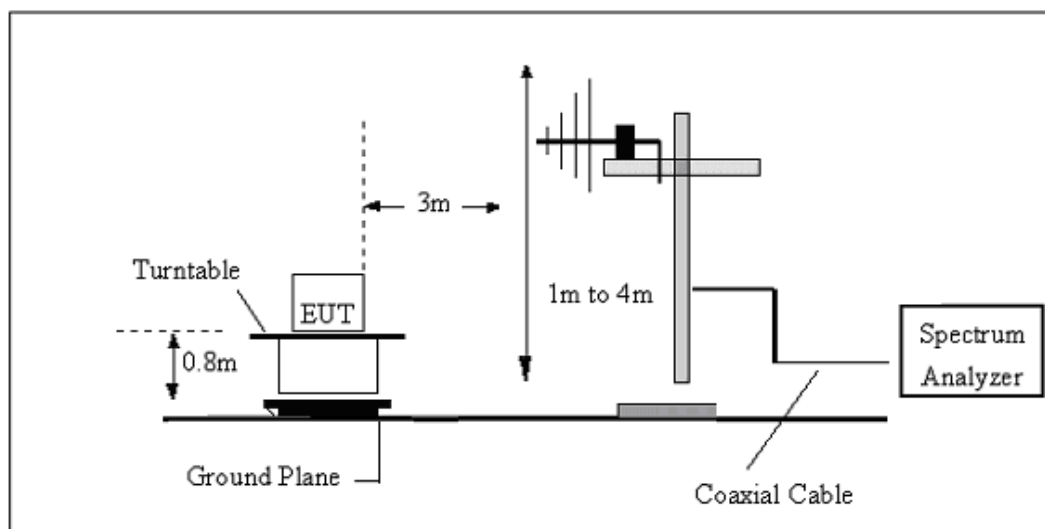
Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

4.2 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz

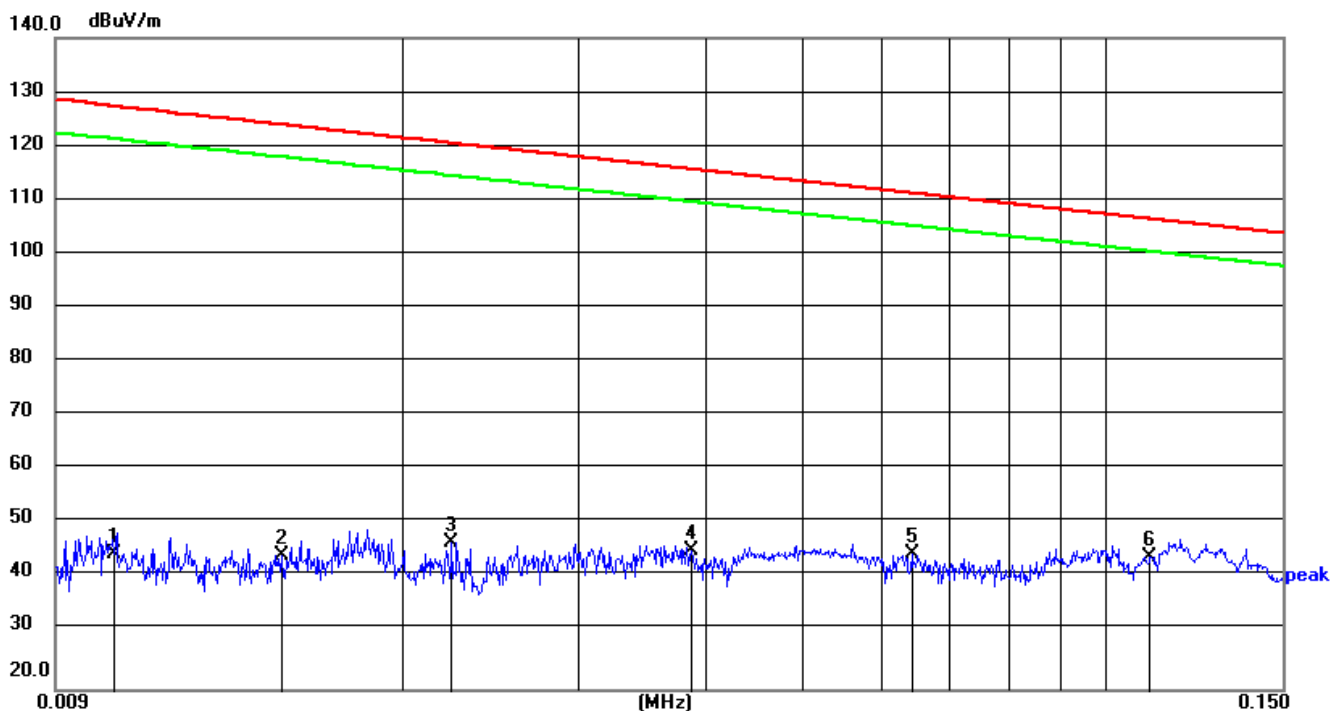


4.4 TEST RESULTS

We pretest AC 120V and AC 230V in full load, half load and no load, the worst voltage was AC 120V in full load and the data recording in the report.

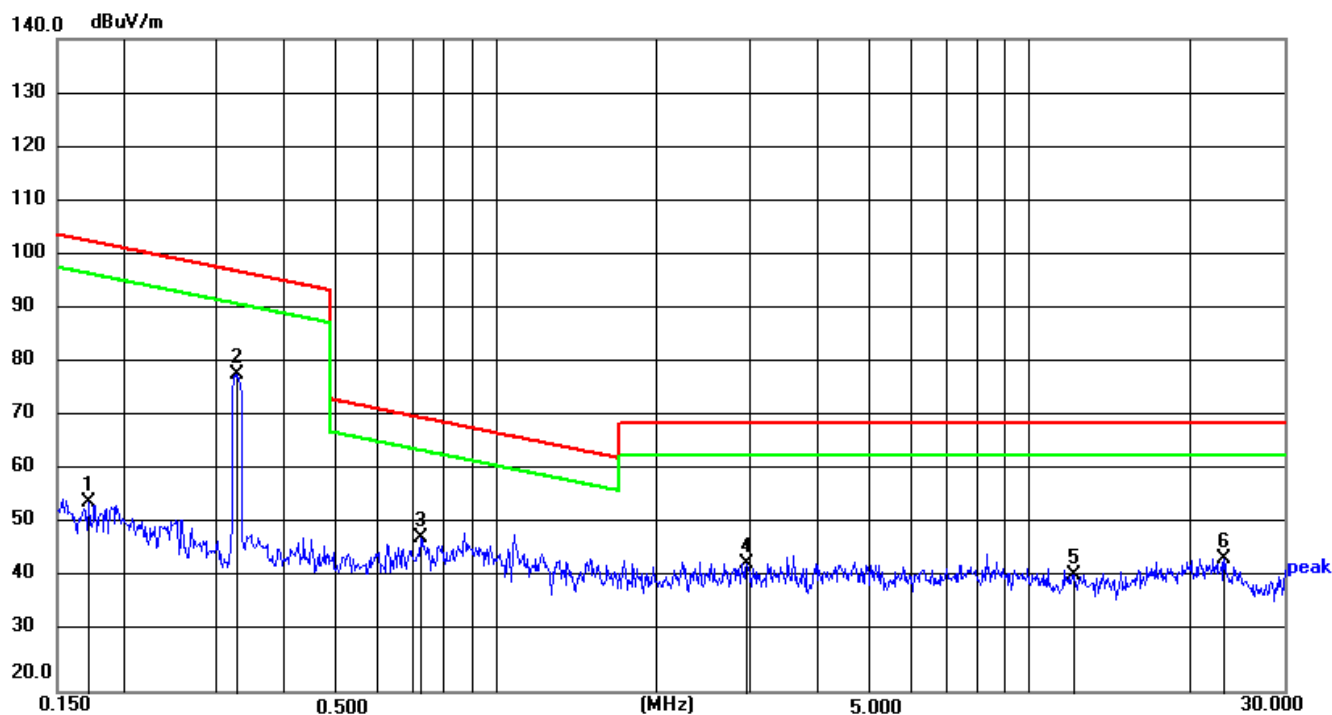
Mode1 :

9KHz-150KHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.0103	23.55	21.41	44.96	127.35	-82.39	QP
2	0.0151	23.78	21.11	44.89	124.03	-79.14	QP
3	0.0223	26.22	20.94	47.16	120.64	-73.48	QP
4	0.0386	23.91	21.92	45.83	115.87	-70.04	QP
5	0.0641	22.34	22.65	44.99	111.47	-66.48	QP
6 *	0.1106	22.19	22.29	44.48	106.73	-62.25	QP

150KHz-30MHz



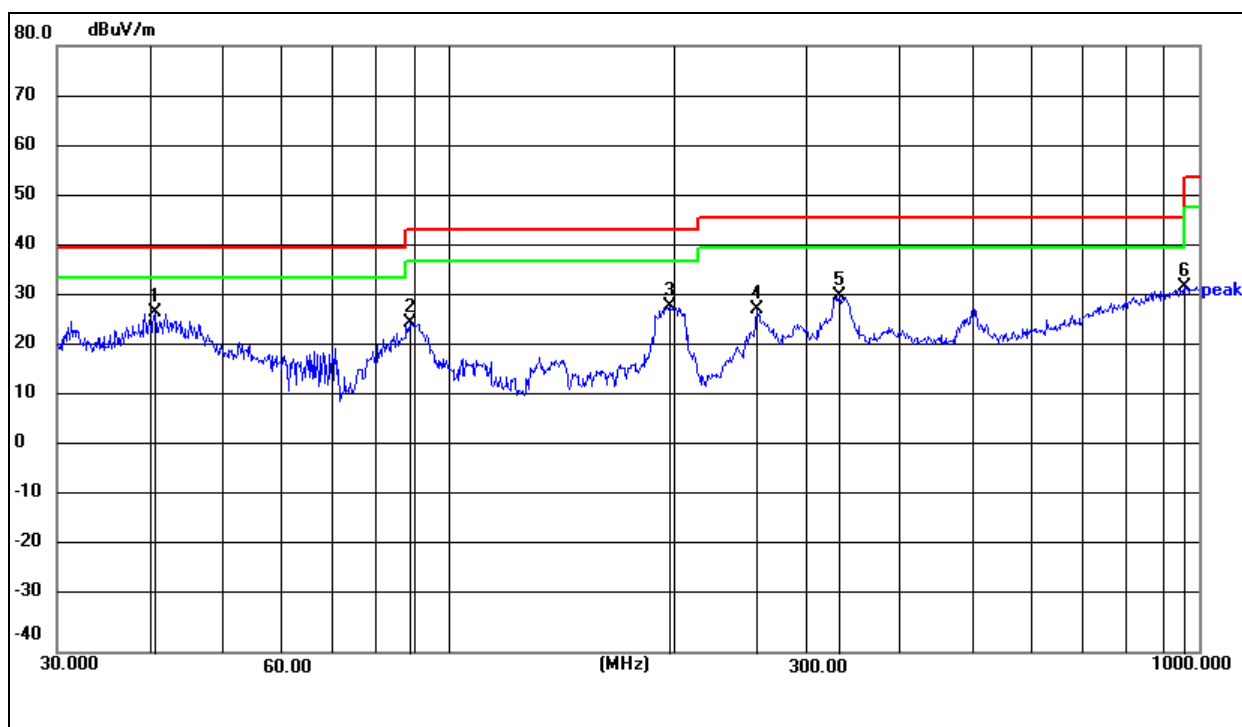
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.1711	33.00	21.79	54.79	102.94	-48.15	QP
2 *	0.3265	56.81	21.52	78.33	97.32	-18.99	QP
3	0.7197	25.89	22.42	48.31	70.46	-22.15	QP
4	2.9462	21.00	22.59	43.59	69.54	-25.95	QP
5	12.0600	18.63	23.01	41.64	69.54	-27.90	QP
6	23.1402	2.71	41.68	44.39	69.54	-25.15	QP

Note:

Pre-scan in the all of mode, the worst case in of was recorded.

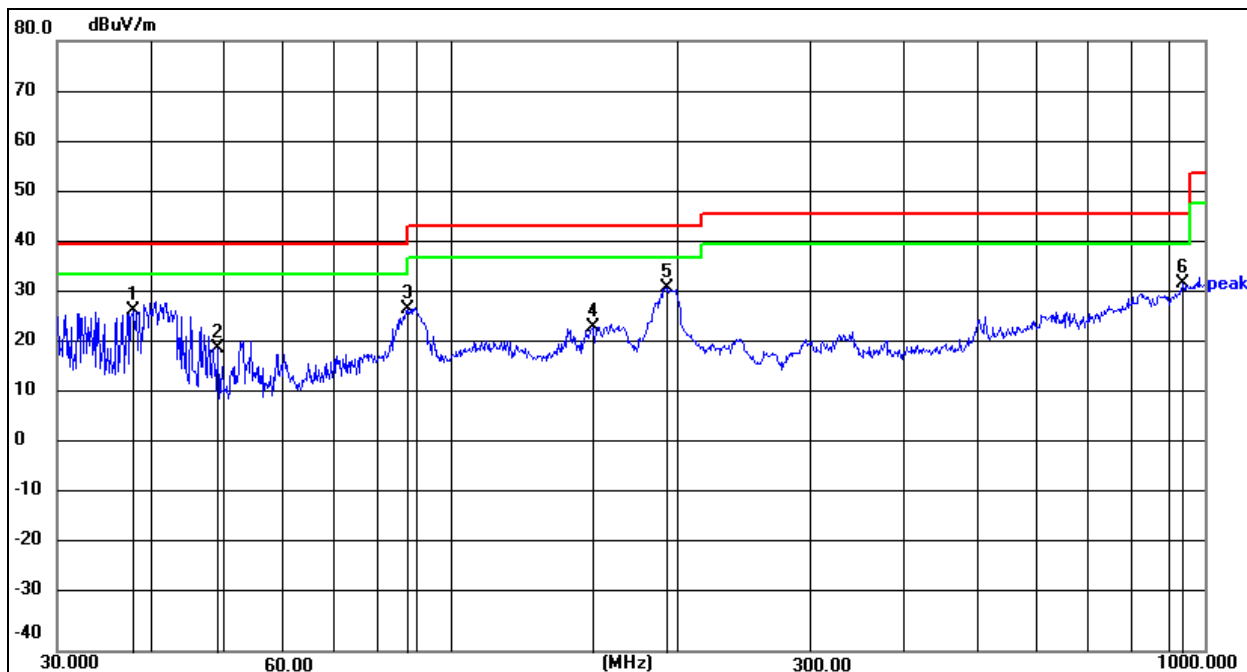
30MHz-1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1 *	40.5591	43.62	-16.46	27.16	40.00	-12.84	QP
2	88.9637	46.30	-20.99	25.31	43.50	-18.19	QP
3	197.2000	48.33	-19.88	28.45	43.50	-15.05	QP
4	257.4221	46.11	-18.31	27.80	46.00	-18.20	QP
5	331.3546	46.59	-16.11	30.48	46.00	-15.52	QP
6	955.4380	35.79	-3.49	32.30	46.00	-13.70	QP

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	37.9450	43.84	-16.75	27.09	40.00	-12.91	QP
2	49.0144	36.17	-16.61	19.56	40.00	-20.44	QP
3	87.7245	48.39	-20.98	27.41	40.00	-12.59	QP
4	154.2785	40.09	-16.51	23.58	43.50	-19.92	QP
5 *	193.0944	51.09	-19.65	31.44	43.50	-12.06	QP
6	935.5461	36.24	-3.90	32.34	46.00	-13.66	QP

Remarks:

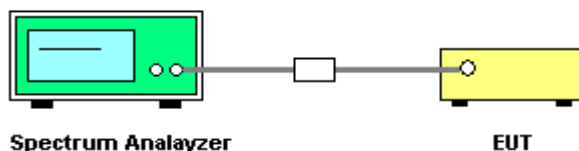
- 1.Emission Level = Reading + Factor;
- 2.Factor = Antenna Factor + Cable Loss – Pre-amplifier;
- 3.Margin= Emission Level - Limit.
- 4.The emission levels of other frequencies are very lower than the limit and not show in test report.

5. 20 dB BANDWIDTH TEST

5.1 TEST PROCEDURE

1. Set RBW = 100 Hz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

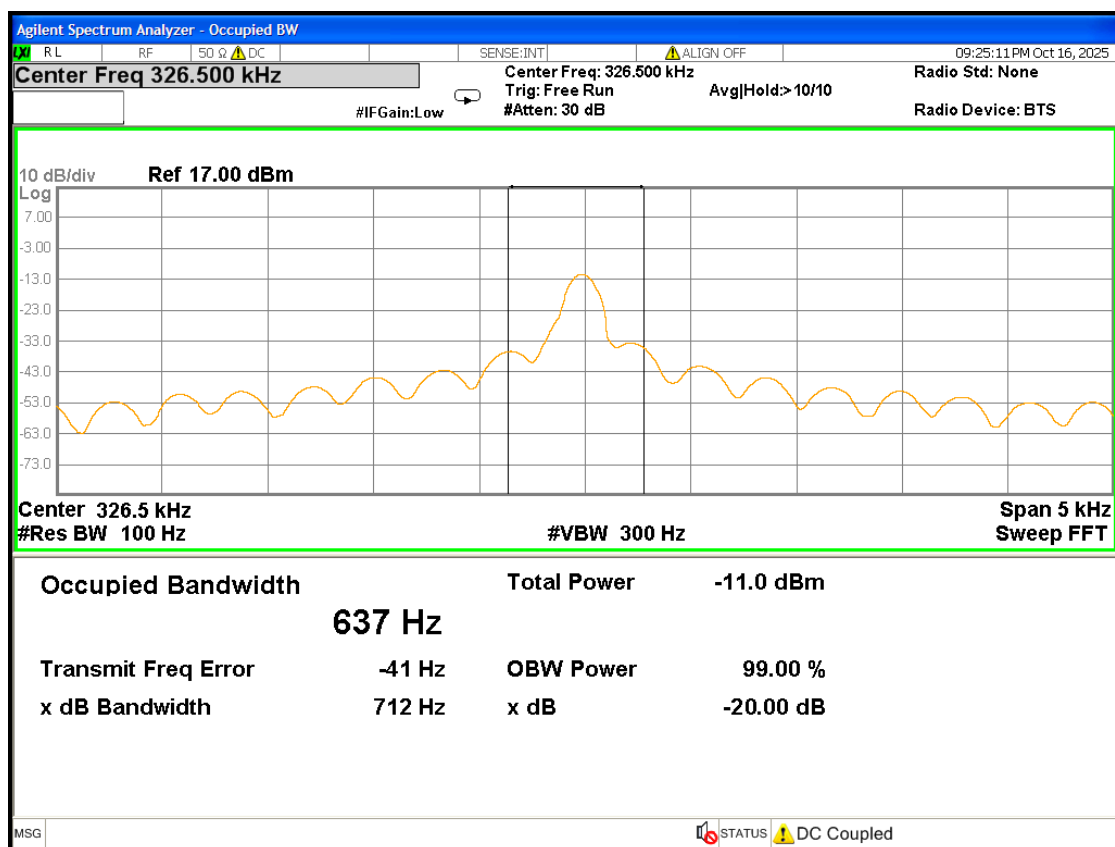
5.2 TEST SETUP



5.4 TEST RESULTS

Temperature:	20 °C	Relative Humidity:	44%
Pressure:	101kPa		

Frequency (KHz)	20dB bandwidth (KHz)	99% bandwidth (KHz)	Result
326.5	712	637	Pass



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 RBV. The RBW is set to 100 Hz to perform the occupied bandwidth test.

6. ANTENNA REQUIREMENT

6.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

6.2 EUT ANTENNA

The antennas used for this product are Loop Coil antenna and other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 0 dBi.

※※※※※END OF THE REPORT※※※※※