

FCC Test Report

Report No: FCS202501035W01

Issued for

Applicant:	Shenzhen Sanyou Technology Co., LTD		
Address:	303, 3rd Fl., Bldg. 2, Dayang Industrial Park, No.4 Industrial Avenue, Fuhai St., Bao'an Dist., Shenzhen, China		
Product Name:	3-in-1 15W Wireless Charging Stand		
Brand Name:	N/A		
Model Name:	WI03		
Series Model:	N/A		
FCC ID:	2BKZ2-WI03		
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:	Shenzhen Sanyou Technology Co., LTD
Address:	303, 3rd Fl., Bldg. 2, Dayang Industrial Park, No.4 Industrial Avenue, Fuhai St., Bao'an Dist., Shenzhen, China
Manufacture's Name:	Shenzhen Sanyou Technology Co., LTD
Address:	303, 3rd Fl., Bldg. 2, Dayang Industrial Park, No.4 Industrial Avenue, Fuhai St., Bao'an Dist., Shenzhen, China
Product Description	
Product Name:	3-in-1 15W Wireless Charging Stand
Brand Name:	N/A
Model Name:	WI03
Series Model:	N/A
Test Standards:	FCC Rules and Regulations Part 15 Subpart C
Test Procedure:	ANSI C63.10:2013
(EUT) is in compliance with the Fe identified in the report. This report shall not be reproduct	been tested FCS, the test results show that the equipment under test CC requirements. And it is applicable only to the tested sample sed except in full, without the written approval of FCS, this document is, personal only, and shall be noted in the revision of the document
Date of Test:	
Date (s) of performance of tests:	Jan. 06, 2025 ~ Jan. 10, 2025
Date of Issue:	Jan. 10, 2025
Test Result:	Pass
Tested by	: Scott shen
	(Scott Shen)
Reviewed by	Duke Dur
	(Duke Qian)
Approved by	: Juleious
	(Jack Wang)



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Revision History

Report No.: FCS202501035W01

Rev.	Issue Date	Effect Page	Contents
00 Jan. 10, 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 Go 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 $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, 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	±3.5%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name	3-in-1 15W Wireless Charging Stand		
Trade Name	N/A		
Model Name	WI03		
Series Model	N/A		
Series Model	IV/A		
Model Difference	N/A		
Operation frequency	113kHz-205kHz		
Modulation Technology	ASK		
Antenna Type	Loop coil antenna		
Antenna gain	0dBi		
	Input: DC9V-2A		
Dower Cumply	Output(Phone): 15W/10W/7.5W/5W		
Power Supply	Output(Watch): 2.5W		
	Output(Earbuds): 3.0W		
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	WI03	Loop coil antenna	N/A	0	N/A



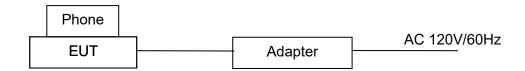
2.2 DESCRIPTION OF THE TEST MODES

Test Mode	Test Mode Description					
	AC Adapter + EUT + phone (15W) + watch (2.5W) + earbuds					
Mode 1	(3.0W)	Record				
Mode 2	AC Adapter + EUT + phone (15W) + watch (2.5W)	Pre-tested				
Mode 3	AC Adapter + EUT + phone (15W) + earbuds (3.0W)	Pre-tested				
Mode 4	AC Adapter + EUT + watch (2.5W) + earbuds (3.0W)	Pre-tested				
Mode 5	AC Adapter + EUT + phone (15W)	Pre-tested				
Mode 6	AC Adapter + EUT + phone (10W)	Pre-tested				
Mode 7	AC Adapter + EUT + phone (7.5W)	Pre-tested				
Mode 8	AC Adapter + EUT + phone (5W)	Pre-tested				
Mode 9	AC Adapter + EUT + watch (2.5W)	Pre-tested				
Mode 10	AC Adapter + EUT + earbuds (3.0W)	Pre-tested				
Mode 11 Test the EUT in idle mode. Pre-test						
Note: All test	modes were pre-tested, but we only recorded the worst case in this report	rt.				



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
1	USB Cable	N/A	N/A	N/A	20cm

Support units

No.	Equipment	Mfr/Brand	Model No.	Serial No.	Power cord	Signal cord
1	Adapter	HNT	HNT-QC530	N/A	N/A	N/A
2	Phone	OSCAL	PILOT2	N/A	N/A	N/A
3	Watch	OSCAL	W7	N/A	N/A	N/A
4	earbuds	OSCAL	E03	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	2024.02.08	2025.02.07
Signal Analyzer	R&S	FSV40-N	FCS-E012	2024.02.08	2025.02.07
Active loop Antenna	ZHINAN	ZN30900C	FCS-E013	2024.02.08	2025.02.07
Bilog Antenna	SCHWARZBECK	VULB 9168	FCS-E002	2024.02.08	2025.02.07
Horn Antenna	SCHWARZBECK	BBHA 9120D	FCS-E003	2024.02.08	2025.02.07
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	FCS-E018	2024.02.08	2025.02.07
Pre-Amplifier(0.1M-3G Hz)	EMCI	EM330N	FCS-E004	2024.02.08	2025.02.07
Pre-Amplifier (1G-18GHz)	N/A	TSAMP-0518SE	FCS-E014	2024.02.08	2025.02.07
Pre-Amplifier (18G-40GHz)	TERA-MW	TRLA-0400	FCS-E019	2024.02.08	2025.02.07
Temperature & Humidity	HTC-1	victor	FCS-E005	2024.02.08	2025.02.07

Conduction Test equipment

Ochladotion root oq	Conduction rest equipment								
Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until				
EMI Test Receiver R&S		ESPI	FCS-E020	2024.02.08	2025.02.07				
LISN	R&S	ENV216	FCS-E007	2024.02.08	2025.02.07				
LISN	ETS	3810/2NM	FCS-E009	2024.02.08	2025.02.07				
Temperature & Humidity	HTC-1	victor	FCS-E008	2024.02.08	2025.02.07				

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Company No.	Last calibration	Calibrated until
Spectrum Analyzer	Keysight	N9020A	FCS-E015	2024.02.08	2025.02.07
Spectrum Analyzer	Agilent	E4447A	MY50180039	2024.02.08	2025.02.07
Spectrum Analyzer	R&S	FSV-40	101499	2024.02.08	2025.02.07



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 Emissionlimit (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

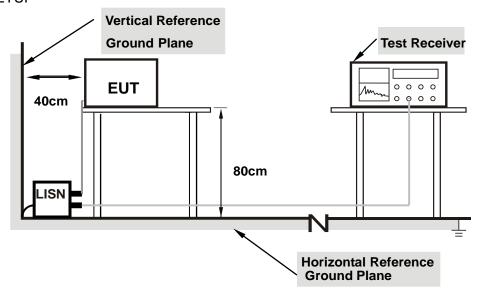
The following table is the setting of the receiver

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



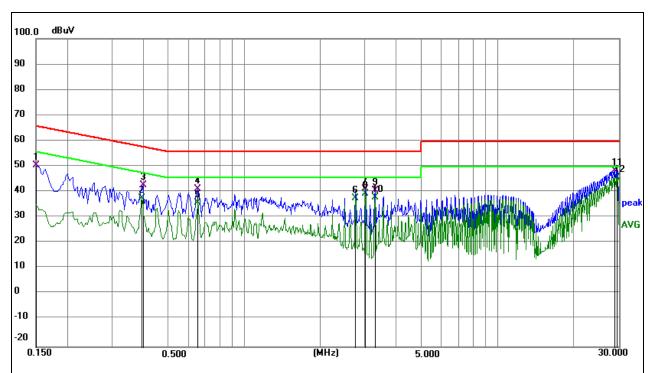
Note: 1.Support units were connected to second LISN.

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

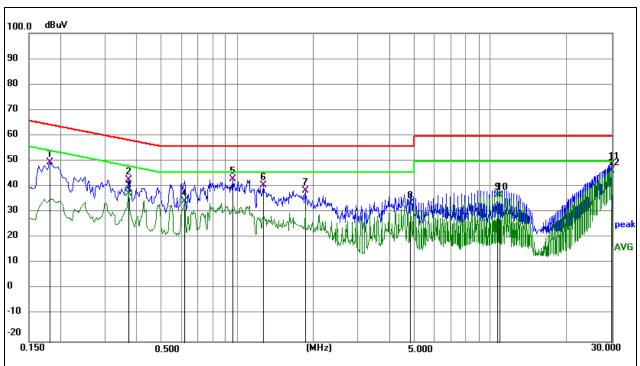
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage:	AC 120V/60Hz		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1500	38.64	12.03	50.67	66.00	-15.33	QP
2	0.3930	27.16	10.84	38.00	48.00	-10.00	AVG
3	0.3975	32.19	10.84	43.03	57.91	-14.88	QP
4	0.6540	30.53	10.85	41.38	56.00	-14.62	QP
5	0.6540	25.28	10.85	36.13	46.00	-9.87	AVG
6	2.7420	27.06	10.90	37.96	46.00	-8.04	AVG
7	3.0030	30.66	10.89	41.55	56.00	-14.45	QP
8	3.0030	28.80	10.89	39.69	46.00	-6.31	AVG
9	3.2775	29.85	10.97	40.82	56.00	-15.18	QP
10	3.2775	27.21	10.97	38.18	46.00	-7.82	AVG
11	29.0400	37.17	11.47	48.64	60.00	-11.36	QP
12	29.5665	34.53	11.50	46.03	50.00	-3.97	AVG



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



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1814	39.13	10.84	49.97	64.42	-14.45	QP
2	0.3704	32.08	10.84	42.92	58.49	-15.57	QP
3	0.3704	26.64	10.84	37.48	48.49	-11.01	AVG
4	0.6180	23.83	10.84	34.67	46.00	-11.33	AVG
5	0.9600	32.56	10.85	43.41	56.00	-12.59	QP
6	1.2660	30.11	10.85	40.96	56.00	-15.04	QP
7	1.8554	27.93	10.86	38.79	56.00	-17.21	QP
8	4.8210	22.76	11.12	33.88	46.00	-12.12	AVG
9	10.6304	25.95	11.20	37.15	50.00	-12.85	AVG
10	10.8780	25.75	11.22	36.97	50.00	-13.03	AVG
11	29.9085	37.44	11.41	48.85	60.00	-11.15	QP
12	29.9085	35.09	11.41	46.50	50.00	-3.50	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	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

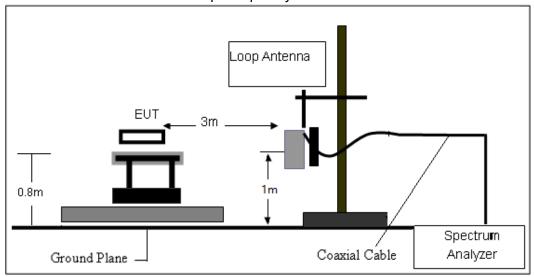
Receiver setup:

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 4011-	Peak	1MHz	3MHz	Peak
Above 1GHz	Peak	1MHz	10Hz	Average

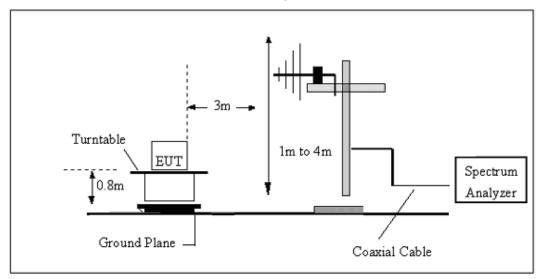


4.2 TEST SETUP

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



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



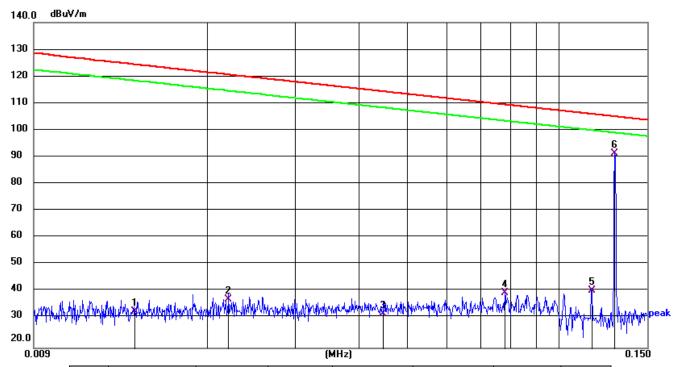


4.4 TEST RESULTS

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.

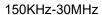
Mode1:

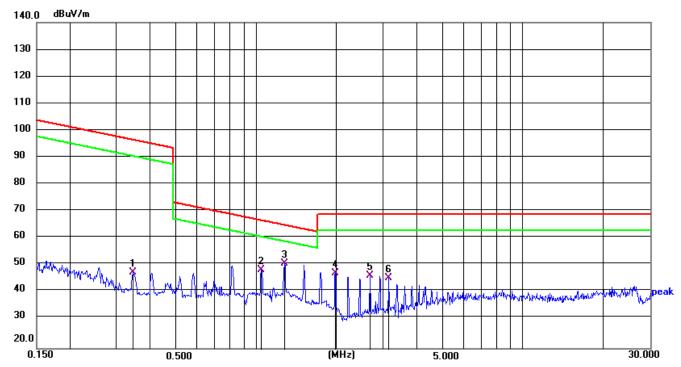




No.	Frequency	Reading	Factor	Level	Limit	Margin	Det.
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0143	12.33	21.16	33.49	124.50	-91.01	QP
2	0.0220	17.00	20.92	37.92	120.76	-82.84	QP
3	0.0446	10.39	22.28	32.67	114.62	-81.95	QP
4	0.0780	17.70	22.69	40.39	109.76	-69.37	QP
5	0.1164	19.02	22.23	41.25	106.29	-65.04	QP
6 *	0.1355	69.54	22.11	91.65	105.38	-13.73	QP







No.	Frequency	Reading	Factor	Level	Limit	Margin	Det.
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.3446	26.43	21.55	47.98	96.86	-48.88	QP
2	1.0430	26.28	22.59	48.87	67.24	-18.37	QP
3 *	1.2755	28.73	22.54	51.27	65.49	-14.22	QP
4	1.9800	25.52	22.40	47.92	69.54	-21.62	QP
5	2.6781	24.25	22.54	46.79	69.54	-22.75	QP
6	3.1396	23.42	22.64	46.06	69.54	-23.48	QP

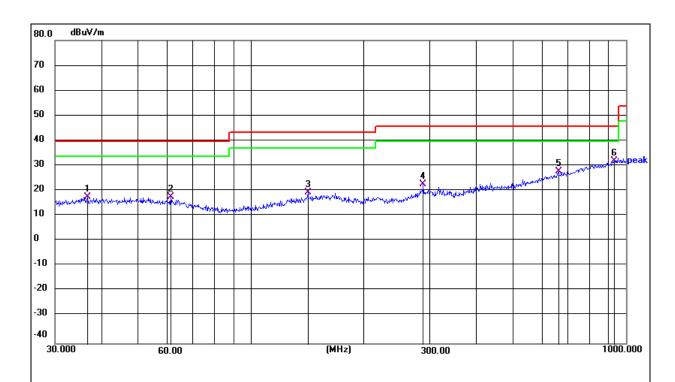
Note:

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



30MHz-1GHz

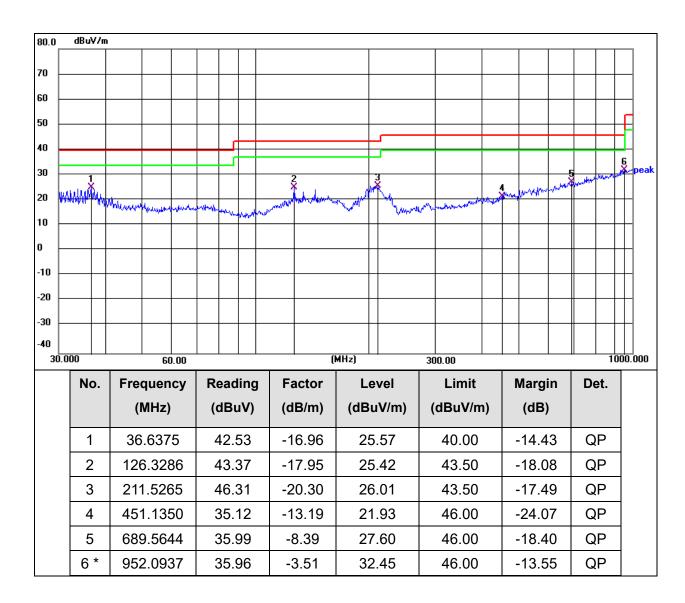
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



No.	Frequency	Reading	Factor	Level	Limit	Margin	Det.
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	36.6374	35.09	-16.96	18.13	40.00	-21.87	QP
2	61.1315	35.37	-17.44	17.93	40.00	-22.07	QP
3	141.8262	37.02	-17.17	19.85	43.50	-23.65	QP
4	287.9904	40.39	-17.28	23.11	46.00	-22.89	QP
5	661.1504	36.78	-8.75	28.03	46.00	-17.97	QP
6 *	929.0082	36.47	-4.06	32.41	46.00	-13.59	QP



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



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.

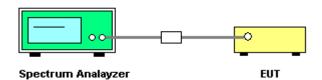


5. 20 dB BANDWIDTH TEST

5.1 TEST PROCEDURE

- 1. Set RBW = 3 Hz.
- 2. Set the video bandwidth (VBW) \geq 3 x 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

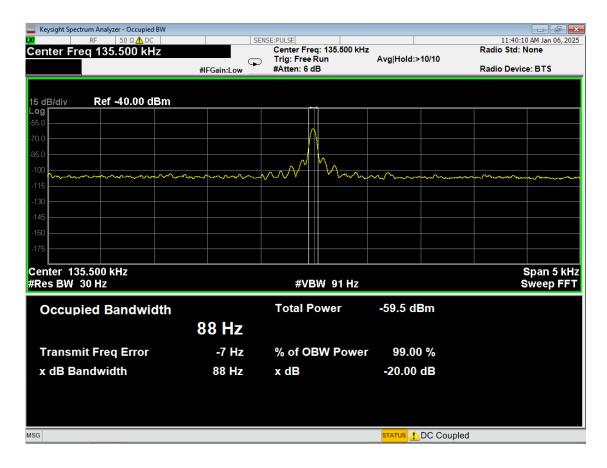




5.4 TEST RESULTS

Temperature:	20 ℃	Relative Humidity:	44%
Pressure:	101kPa		

Frequency (KHz)	20dB bandwidth (KHz)	99% bandwidth (KHz)	Result
135.5	0.088	0.088	Pass



Note: Since the measured signal is CW-like, it is not practical to adjust the RBW according to C63.10, as the measured bandwidth will always follow the RBW, resulting in approximately twice the RBW.



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 * * * * *