

FCC Test Report

Applicant : Secukey Technology Co., Ltd.

Address : Floor 5, Building 13, Longbi Industrial Park,
Longgang District, Shenzhen, China

Product Name : Access Control

Report Date : Jan. 10, 2024

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : Secukey Technology Co., Ltd.
Manufacturer : Secukey Technology Co., Ltd.
Product Name : Access Control
Test Model No. : XK6-RX
Reference Model No. : XK5-RX, X5-RX, X6-RX, S5-X, S6-X, S9-X, S9, CR9-R, CR9-RX, CR9, CK9-R EM, CK9-R MF, CK9-R, CK9-RX, CK9, CR4, CR5, CR6, CH4, CH5, CH6, CF4, CF5, CF6, CHD4, CHD5, CHD6, CFD4, CFD5, CFD6, CK4, CK5, CK6, SK13, SK14, H4-KEY
Trade Mark : Secukey
Rating(s) : Input: 12-18V==
Test Standard(s) : FCC Part15 Subpart C, Section 15.225
Test Method(s) : ANSI C63.10: 2020

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

Dec. 12, 2023

Date of Test

Dec. 12, 2023~Jan. 10, 2024

Prepared By

Ella Liang

(Ella Liang)

Approved & Authorized Signer

Edward Pan

(Edward Pan)



Revision History

Report Version	Description	Issued Date
R00	Original Issue.	Jan. 10, 2024



1. General Information

1.1. Client Information

Applicant	:	Secukey Technology Co., Ltd.
Address	:	Floor 5, Building 13, Longbi Industrial Park, Longgang District, Shenzhen, China
Manufacturer	:	Secukey Technology Co., Ltd.
Address	:	Floor 5, Building 13, Longbi Industrial Park, Longgang District, Shenzhen, China
Factory	:	Secukey Technology Co., Ltd.
Address	:	Floor 5, Building 13, Longbi Industrial Park, Longgang District, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Access Control
Test Model No.	:	XK6-RX
Reference Model No.	:	XK5-RX, X5-RX, X6-RX, S5-X, S6-X, S9-X, S9, CR9-R, CR9-RX, CR9, CK9-R EM, CK9-R MF, CK9-R, CK9-RX, CK9, CR4, CR5, CR6, CH4, CH5, CH6, CF4, CF5, CF6, CHD4, CHD5, CHD6, CFD4, CFD5, CFD6, CK4, CK5, CK6, SK13, SK14, H4-KEY (Note: All samples are the same except the model number and appearance color, so we prepare "XK6-RX" for test only.)
Trade Mark	:	Secukey
Test Power Supply	:	DC 12V from Adapter input AC 120V/60Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
RF Specification		
Operation Frequency	:	13.56MHz
Number of Channel	:	1 Channel
Modulation Type	:	ASK
Antenna Type	:	PCB Antenna
Antenna Gain(Peak)	:	0dBi
Remark: 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		



1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
Adapter	Model: MDY-11-EX Input: 100-240V-0.7A, 50-60Hz USB-A output: 5V= 3A, 9V= 3A, 12V= 2.25A, 20V= 1.35A, 11V= 3A

1.4. Description of Test Configuration

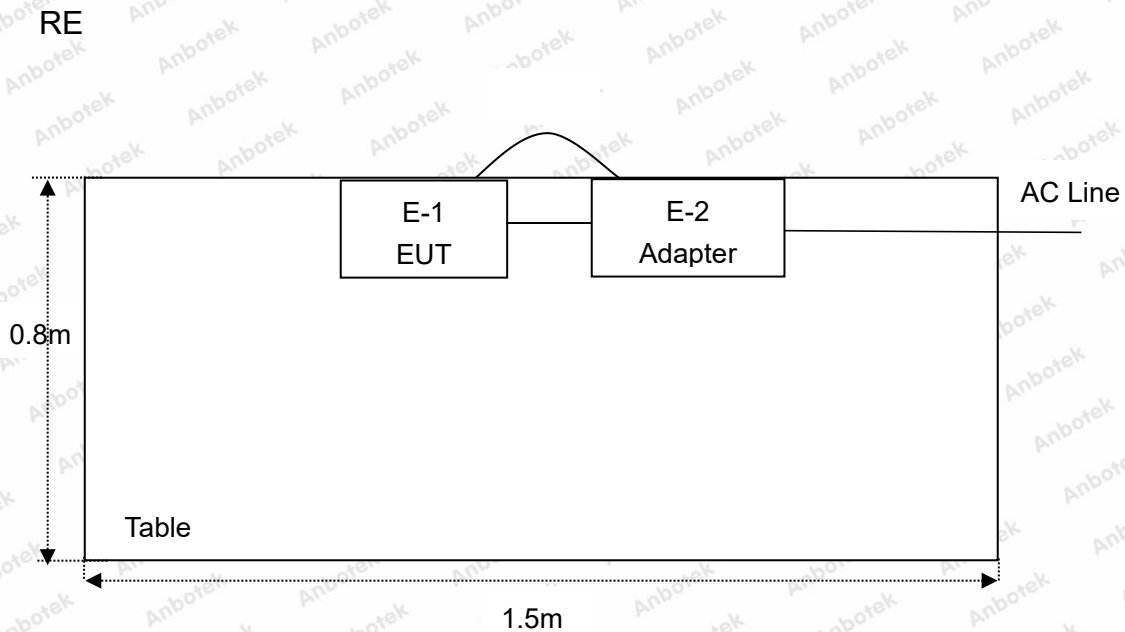
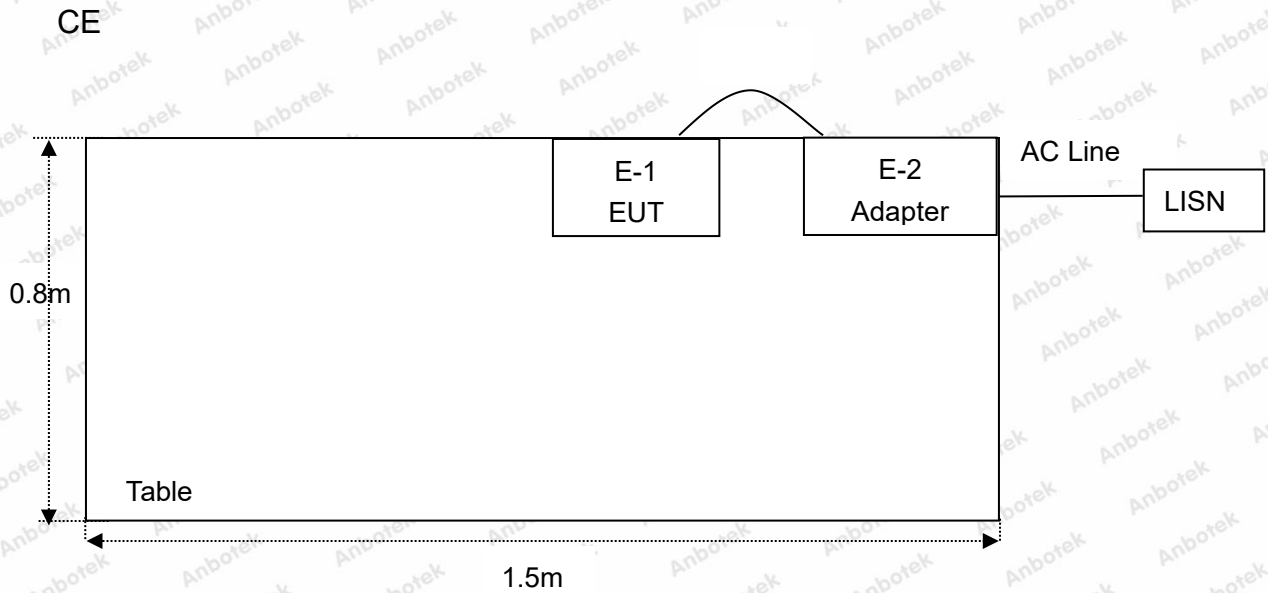
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
01	13.56								

Note:

1. During the test, the EUT was keeping continuous transmission.



1.5. Description Of Test Setup



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	Oct. 12, 2023	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT001	Jul. 05, 2023	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Oct. 12, 2023	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	Oct. 12, 2023	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	Oct. 12, 2023	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G -45	SKET-PA-002	Oct. 12, 2023	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	Oct. 16, 2022	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	Oct. 23, 2022	3 Year
9.	Loop Antenna	Schwarzbeck	FMZB1519B	00053	Oct. 12, 2023	1 Year
10.	Horn Antenna	A-INFO	LB-180400- KF	J211060628	Oct. 12, 2023	1 Year
11.	Pre-amplifier	SONOMA	310N	186860	Oct. 12, 2023	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	Oct. 12, 2023	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY48180656	Oct. 12, 2023	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	Oct. 12, 2023	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	Oct. 20, 2023	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80 B	N/A	Oct. 16, 2023	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	May. 26, 2023	1 Year



1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.8dB
Occupied Bandwidth	925Hz
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (Below 30MHz)	3.53dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.92dB; Vertical: 4.52dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 434132

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 434132.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.



1.9. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



2. Summary of Test Results

Standard Section	Test Item	Result
15.203	Antenna Requirement	PASS
15.207	Conducted Emission Test	PASS
15.205/15.209/15.225	Spurious Emission	PASS
15.215(c)	20dB Occupied Bandwidth	PASS
15.225(e)	Frequency Tolerance	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		



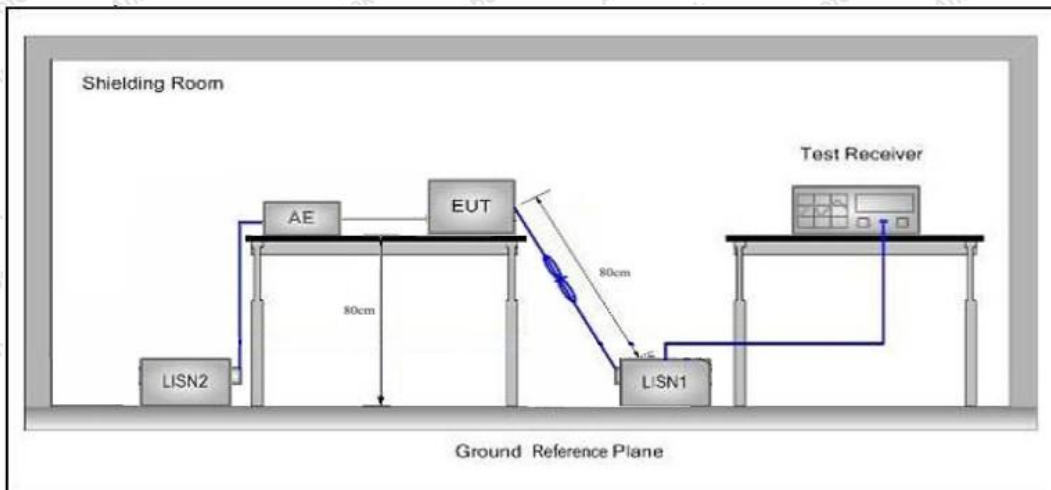
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50

Remark: (1) *Decreasing linearly with logarithm of the frequency.
(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

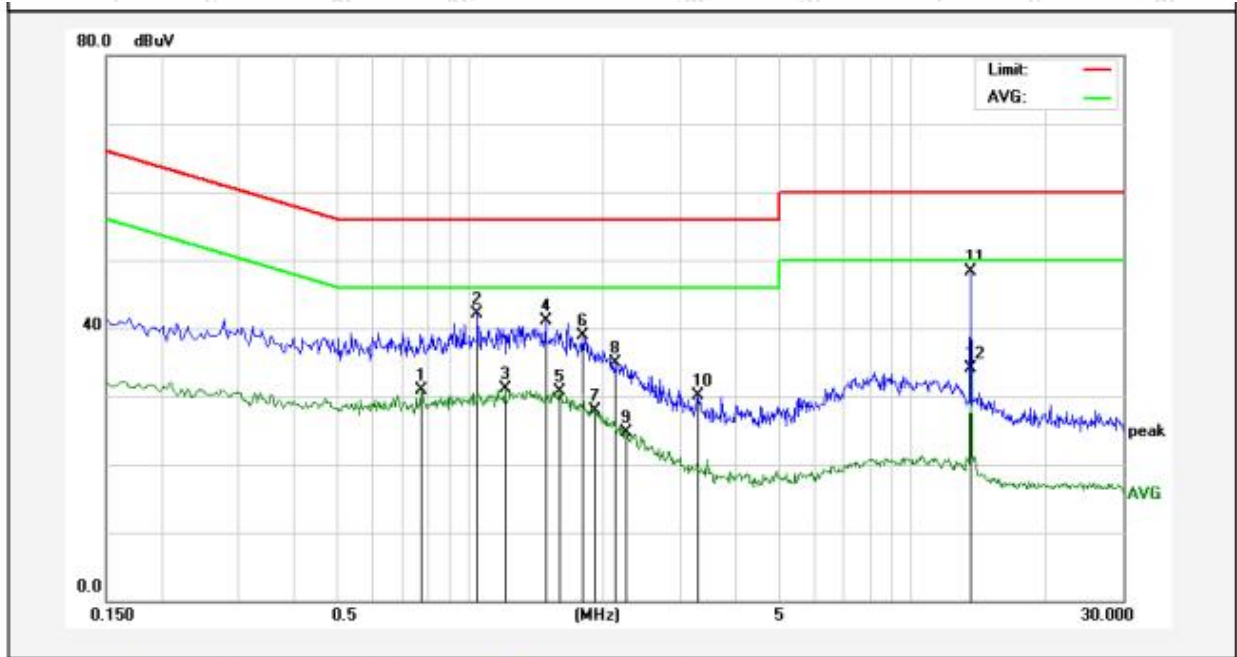
3.4. Test Data

Please to see the following pages.



Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: 13.56MHz
 Test Specification: DC 12V from Adapter input AC 120V/60Hz
 Comment: Live Line
 Temp.(°C)/Hum.(%RH): 22.1°C/52%RH

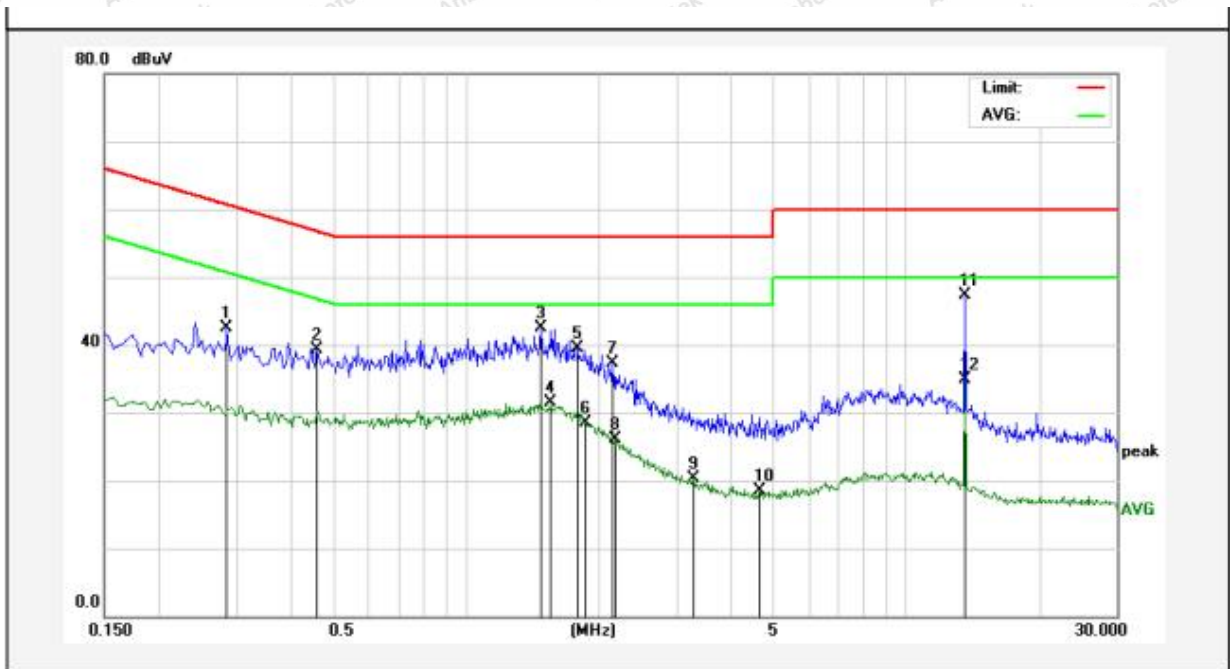


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.7780	12.96	17.87	30.83	46.00	-15.17	AVG	
2	1.0380	24.29	17.86	42.15	56.00	-13.85	QP	
3	1.2020	13.18	17.85	31.03	46.00	-14.97	AVG	
4	1.4819	23.16	17.86	41.02	56.00	-14.98	QP	
5	1.5980	12.88	17.85	30.73	46.00	-15.27	AVG	
6	1.8020	21.12	17.86	38.98	56.00	-17.02	QP	
7	1.9260	10.02	17.85	27.87	46.00	-18.13	AVG	
8	2.1300	16.97	17.85	34.82	56.00	-21.18	QP	
9	2.2540	6.83	17.85	24.68	46.00	-21.32	AVG	
10	3.2780	12.26	17.85	30.11	56.00	-25.89	QP	
11	13.5620	30.19	18.10	48.29	60.00	-11.71	QP	
12	13.5620	16.00	18.10	34.10	50.00	-15.90	AVG	



Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: 13.56MHz
 Test Specification: DC 12V from Adapter input AC 120V/60Hz
 Comment: Neutral Line
 Temp.(°C)/Hum.(%RH): 22.1°C/52%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.2860	24.75	17.84	42.59	60.64	-18.05	QP	
2	0.4580	21.46	17.84	39.30	56.73	-17.43	QP	
3	1.4740	24.56	17.86	42.42	56.00	-13.58	QP	
4	1.5580	13.66	17.85	31.51	46.00	-14.49	AVG	
5	1.7900	21.67	17.86	39.53	56.00	-16.47	QP	
6	1.8620	10.64	17.85	28.49	46.00	-17.51	AVG	
7	2.1540	19.37	17.85	37.22	56.00	-18.78	QP	
8	2.1700	8.33	17.85	26.18	46.00	-19.82	AVG	
9	3.2900	2.36	17.85	20.21	46.00	-25.79	AVG	
10	4.6340	0.59	17.86	18.45	46.00	-27.55	AVG	
11	13.5620	29.28	18.10	47.38	60.00	-12.62	QP	
12	13.5620	16.71	18.10	34.81	50.00	-15.19	AVG	



4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.205, 15.209 and 15.225				
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
Test Limit	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	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~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

Remark:

(1)The lower limit shall apply at the transition frequency.
 (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

(a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

Note:

(1) The tighter limit shall apply at the boundary between two frequency range.

(2) Limitation expressed in dBuV/m is calculated by 20log Emission Level (uV/m).

(3) If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula of $Ld1 = Ld2 * (d2/d1)^2$.

Example:

F.S Limit at 30m distance is 30uV/m, then F.S Limitation at 3m distance is adjusted as

$$Ld1 = L1 = 30uV/m * (10)^2 = 100 * 30 uV/m$$



4.2. Test Setup

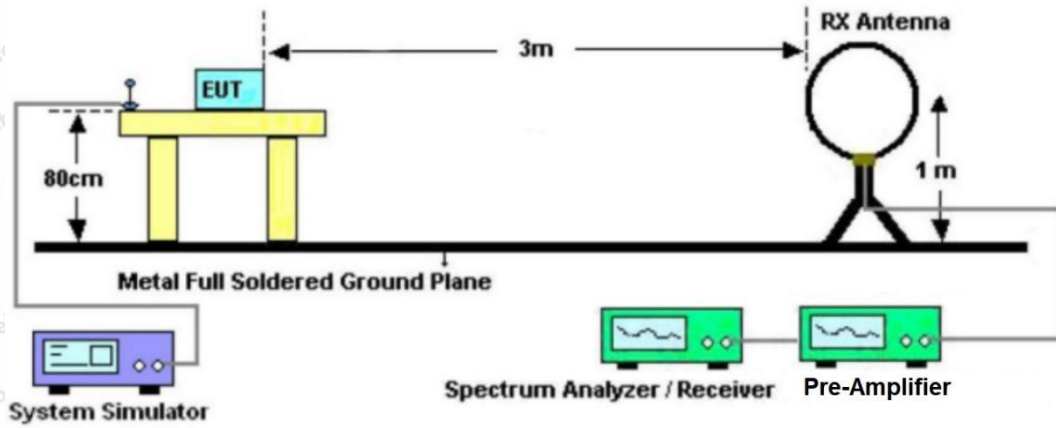


Figure 1. Below 30MHz

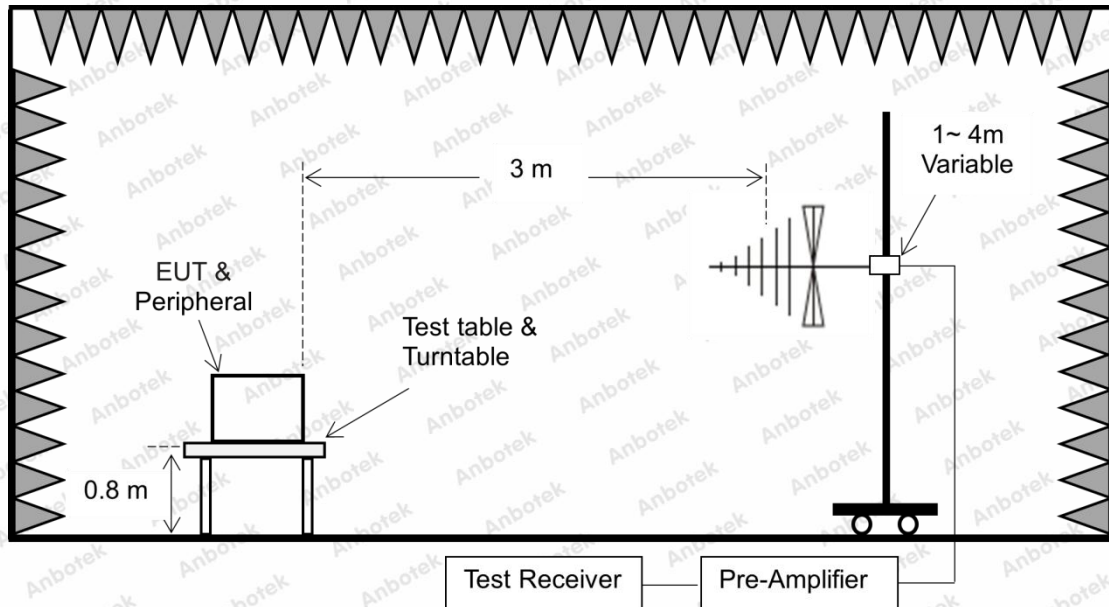


Figure 2. 30MHz to 1GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For 9kHz to 150kHz, Set the spectrum analyzer as:
 RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:
 RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.



For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector = Quasi-Peak, Trace mode = Max hold, Sweep = auto couple.

4.4. Test Data

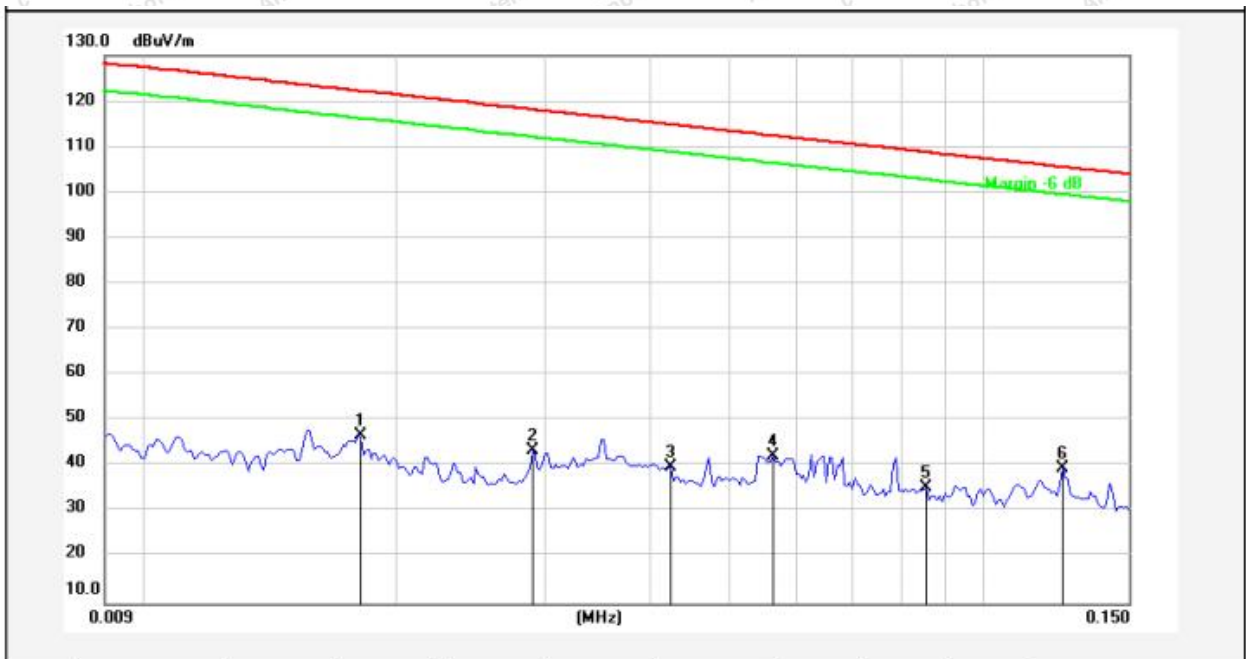
PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.



Test Results (9KHz~0.15MHz)

Test Mode: TX
 Power Source: DC 12V from Adapter input AC 120V/60Hz
 Polarization: X
 Temp.(°C)/Hum.(%RH): 22.7°C/49%RH

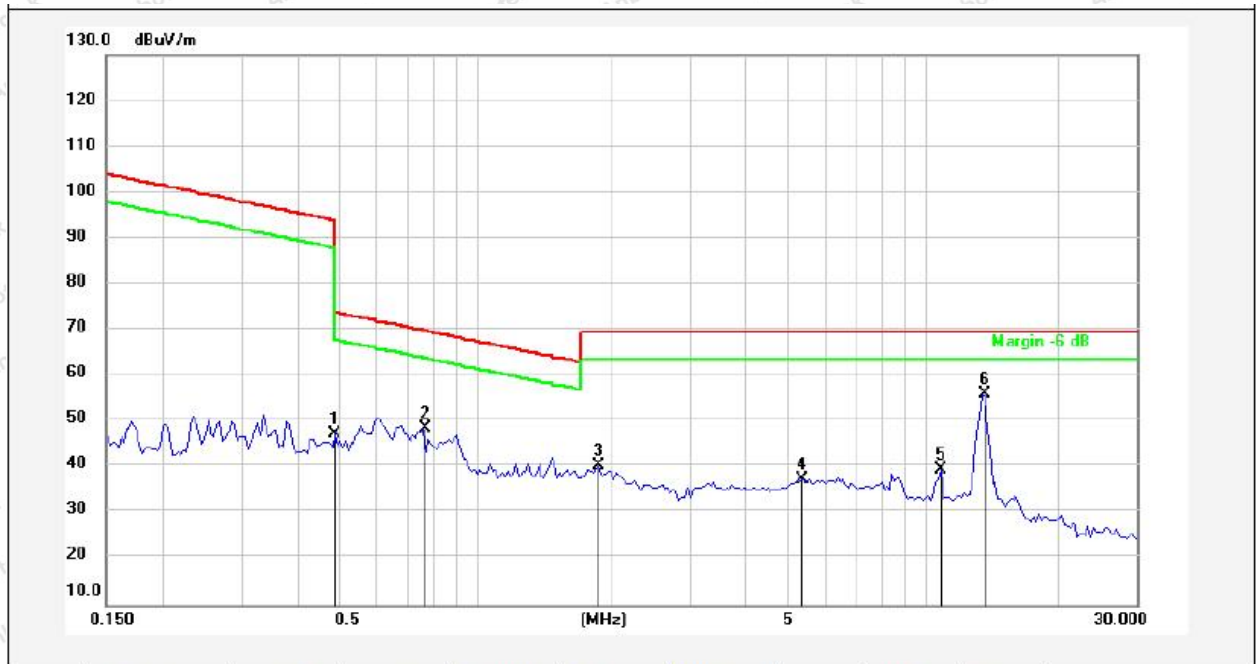


No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.0181	26.60	20.20	46.80	122.27	-75.47	QP			
2	0.0291	23.15	20.43	43.58	118.18	-74.60	QP			
3	0.0425	19.42	20.44	39.86	114.91	-75.05	QP			
4	0.0563	21.96	20.36	42.32	112.48	-70.16	QP			
5	0.0859	14.92	20.38	35.30	108.83	-73.53	QP			
6	0.1247	19.20	20.33	39.53	105.61	-66.08	QP			



Test Results (0.15MHz~30MHz)

Test Mode: TX
 Power Source: DC 12V from Adapter input AC 120V/60Hz
 Polarization: X
 Temp.(°C)/Hum.(%RH): 22.7°C/49%RH

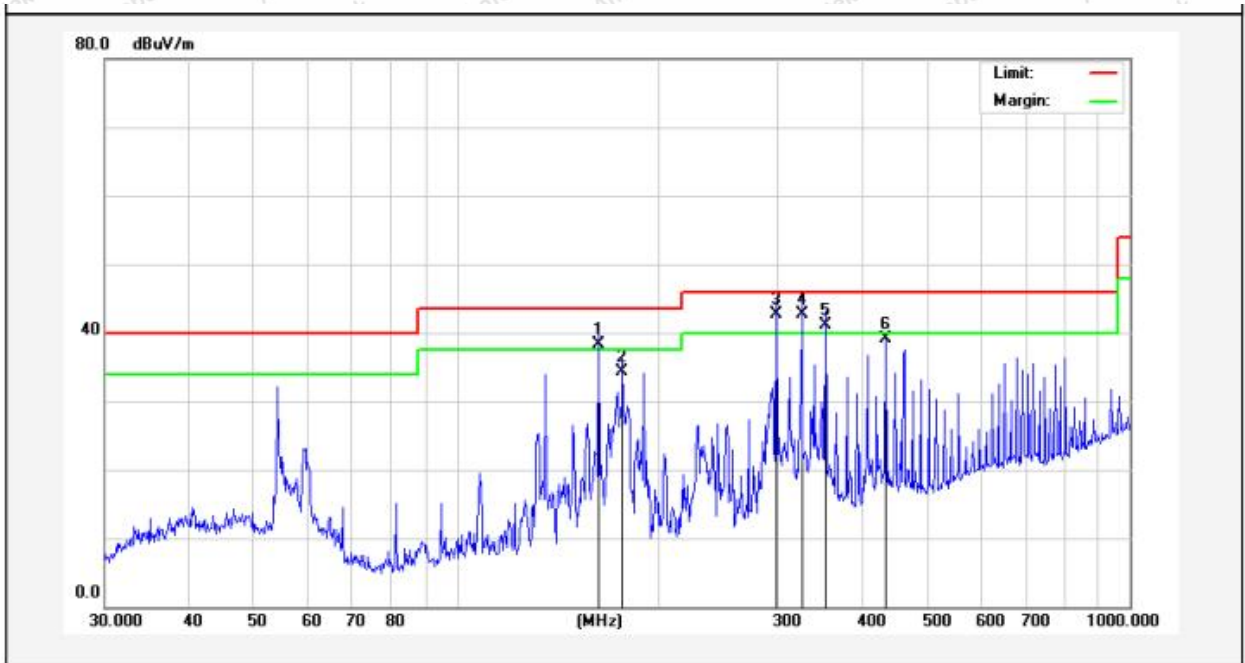


No.	Freq. (MHz)	Reading (dBuV)	Factor ()	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	0.4873	27.08	20.27	47.35	93.85	-46.50	QP			
2	0.7650	28.18	20.25	48.43	69.94	-21.51	QP			
3	1.8829	20.11	20.28	40.39	69.50	-29.11	QP			
4	5.3615	17.11	20.39	37.50	69.50	-32.00	QP			
5	10.9626	19.10	20.52	39.62	69.50	-29.88	QP			
6	13.5509	35.48	20.53	56.01	124.00	-67.96	QP			



Test Results (30~1000MHz)

Test Mode: TX
 Power Source: DC 12V from Adapter input AC 120V/60Hz
 Polarization: Horizontal
 Temp.(°C)/Hum.(%RH): 22.7°C/49%RH

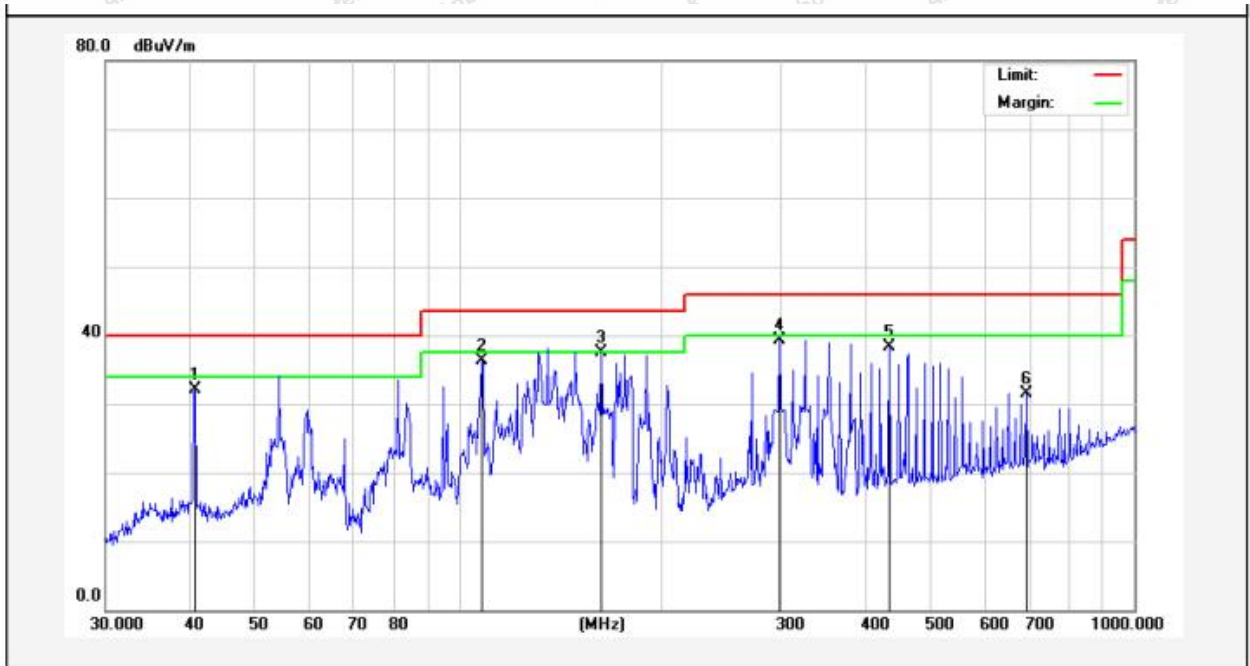


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	162.6106	62.14	-23.92	38.22	43.50	-5.28	QP			
2	176.2686	57.62	-23.33	34.29	43.50	-9.21	QP			
3	298.2681	59.92	-17.31	42.61	46.00	-3.39	QP			
4	325.5958	59.33	-16.57	42.76	46.00	-3.24	QP			
5	352.9433	57.10	-16.01	41.09	46.00	-4.91	QP			
6	434.0651	54.82	-15.70	39.12	46.00	-6.88	QP			



Test Results (30~1000MHz)

Test Mode: TX
 Power Source: DC 12V from Adapter input AC 120V/60Hz
 Polarization: Vertical
 Temp.(°C)/Hum.(%RH): 22.7°C/49%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	40.7014	46.69	-14.63	32.06	40.00	-7.94	QP			
2	108.2667	54.23	-17.91	36.32	43.50	-7.18	QP			
3	162.6106	59.00	-21.52	37.48	43.50	-6.02	QP			
4	298.2681	55.66	-16.32	39.34	46.00	-6.66	QP			
5	434.0649	52.17	-13.93	38.24	46.00	-7.76	QP			
6	691.9867	41.60	-10.03	31.57	46.00	-14.43	QP			



Test Results (Inband)

Indicated			Table Angle Degree	Antenna Height (m)	Detector	Correction Factor			Corrected Amplitude (dBuV/m) @3m	FCC part 15.225		
Frequency Range (MHz)	Mark Point (MHz)	Reading (dBuV/m) @3m				Ant. Factor (dB)	Cable Loss (dB)	Pre-Amp. Gain (dB)		Limit (dBuV/m) @3m	Margin(dBuV/m) @3m	Result
13.110~13.410	13.3871	49.96	0	1.0	QP	20.9	0.2	30.2	40.86	80.5	39.64	PASS
13.410~13.553	13.5477	52.26	0	1.0	QP	20.8	0.2	30.2	43.06	90.5	47.44	PASS
13.553~13.567	13.5509	56.01	0	1.0	QP	20.9	0.2	30.2	46.91	124	77.09	PASS
13.567~13.710	13.5763	51.80	0	1.0	QP	21.1	0.2	30.2	42.90	90.5	47.60	PASS
13.710~14.010	13.8895	49.63	0	1.0	QP	21.2	0.2	30.2	40.83	80.5	39.67	PASS

Note: Corrected Amplitude=Reading+Ant.Factor+Cable Loss-Pre-Amp.Gain

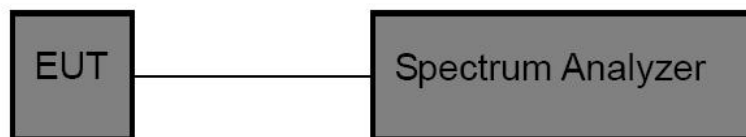


5. Frequency Tolerance

5.1. Test Requirement

Test Standard	FCC Part15 C Section 15.225(e)
Test Limit	±0.01% (100ppm)

5.2. Test Setup



5.3. Test Procedure

Let the EUT works on temperature variation of -20 degrees to + 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

5.4. Test Data

Pass

Voltage (VDC)	Temperature (°C)	Frequency Measured (MHz)	Test data (ppm)	Limit (ppm)	Verdict
12.00	-20	13.560177	13.05	±100	PASS
	-10	13.560164	12.08	±100	PASS
	0	13.560155	11.46	±100	PASS
	+10	13.560207	15.23	±100	PASS
	+20	13.560191	14.09	±100	PASS
	+30	13.560181	13.37	±100	PASS
	+40	13.560207	15.28	±100	PASS
+50	13.560197	14.51	±100	PASS	
10.20	+20	13.560178	13.10	±100	PASS
13.80	+20	13.560169	12.43	±100	PASS

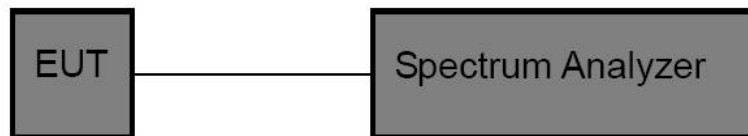


6. 20DB Occupy Bandwidth Test

6.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.215(c)
Test Limit	N/A

6.2. Test Setup



6.3. Test Procedure

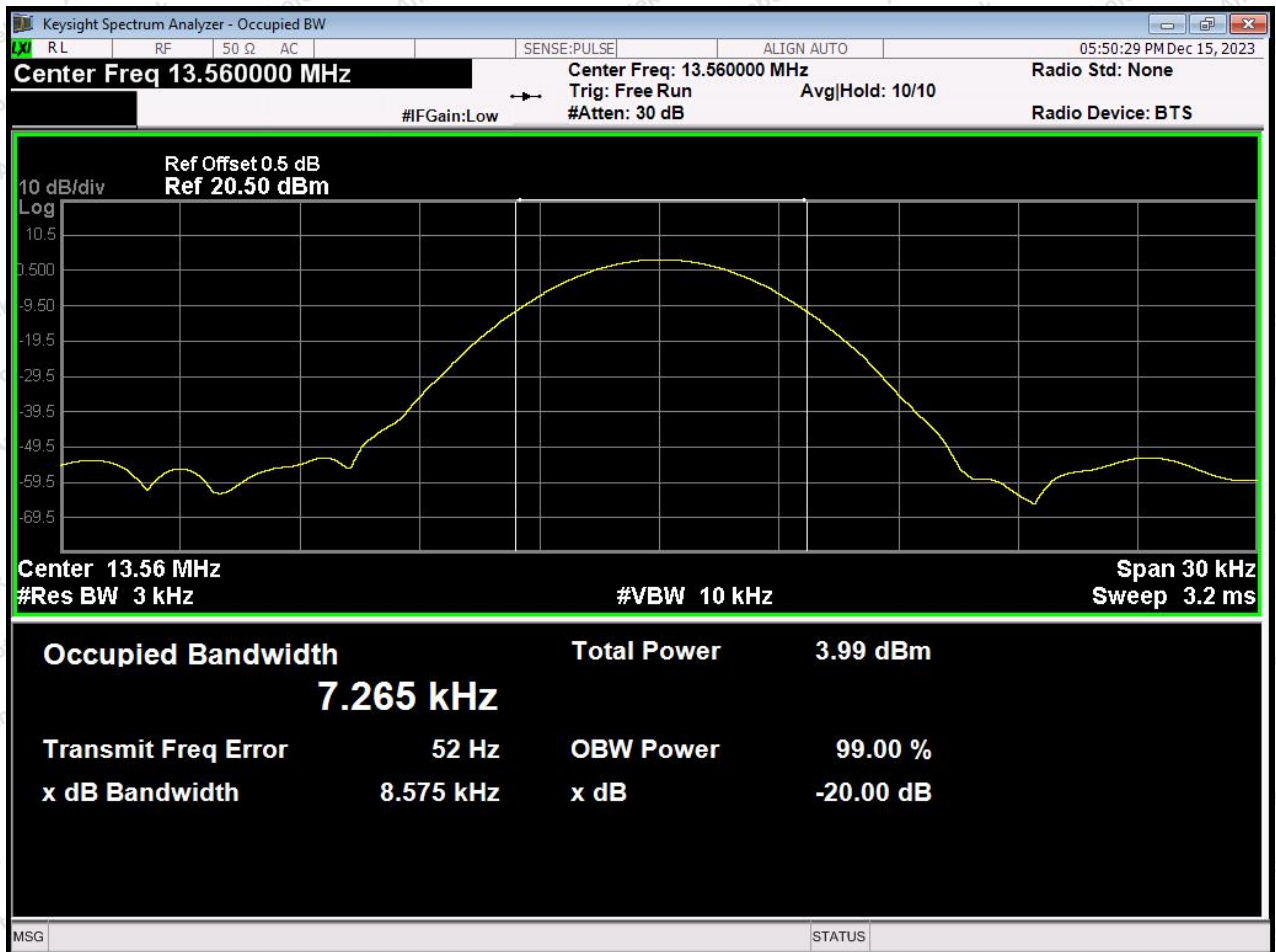
The bandwidth of the fundamental frequency was measured by spectrum analyzer with 3kHz RBW and VBW \geq 3*RBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

6.4. Test Data

Test Item	: 20dB Bandwidth	Test Mode	: Continuously transmitting
Test Voltage	: DC 12V from Adapter input AC 120V/60Hz	Temperature	: 24.6℃
Test Result	: PASS	Humidity	: 52%RH



Freq. (MHz)	Bandwidth (kHz)	Results
13.56	8.575	PASS



7. Antenna Requirement

7.1. Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203
Requirement	1) 15.203 requirement: 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

7.2. Antenna Connected Construction

The antenna is a PCB Antenna which permanently attached, and the best case gain of the antenna is 0 dBi. It complies with the standard requirement.



APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

