

TEST REPORT

FCC Rules Part 15.209

Report Reference No.....: MTEB25120173-R

FCC ID.....: 2BRMY-20002

Compiled by

(position+printed name+signature)..: File administrators Alisa Luo



Supervised by

(position+printed name+signature)..: Test Engineer Sunny Deng



Approved by

(position+printed name+signature)..: Manager Yvette Zhou



Date of issue.....: **Dec.16,2025**

Representative Laboratory Name.: Shenzhen Most Technology Service Co., Ltd.

Address.....: No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,
Nanshan, Shenzhen, Guangdong, China.

Applicant's name.....: MAXSafes Security LLC

Address.....: 24 E Knight Ave, Collingswood, NJ 08108

Test specification/ Standard.....: FCC Part15 Subpart C, Section 15.209

TRF Originator.....: Shenzhen Most Technology Service Co., Ltd.

Shenzhen Most Technology Service Co., Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Most Technology Service Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Most Technology Service Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test item description.....: RFID Digital Lock Box

Trade Mark.....: MAXSafes, SnapSafe,VenoTech

Model/Type reference.....: 20002-AR/SR

Listed Models: N/A

Modulation Type.....: ASK

Operation Frequency.....: 125KHz

Hardware Version.....: v1.0.0

Software Version.....: v1.0.0

Rating.....: DC 5V by USB Port

Result.....: **PASS**

TEST REPORT

Equipment under Test : RFID Digital Lock Box

Model /Type : 20002-AR/SR

Listed Models : N/A

Remark : N/A

Applicant : **MAXSafes Security LLC**

Address : 24 E Knight Ave, Collingswood, NJ 08108

Manufacturer : **NINGBO JINDILI IMP & EXP CO., LTD**

Address : Room 2401, Tiangao Building, #396 Tian Gao Lane, Ningbo, China

Test Result:	PASS
---------------------	-------------

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

1. REVISION HISTORY	4
2. TEST STANDARDS	5
3. SUMMARY	6
3.1. General Remarks	6
3.2. Product Description	6
3.3. Equipment Under Test	6
3.4. Short description of the Equipment under Test (EUT)	6
3.5. EUT operation mode	6
3.6. Block Diagram of Test Setup	6
3.7. Test Item (Equipment Under Test) Description*	7
3.8. Auxiliary Equipment (AE) Description	7
3.9 Antenna Information	7
3.10. EUT configuration	7
3.11. Modifications	7
4. TEST ENVIRONMENT	8
4.1. Address of the test laboratory	8
4.2. Environmental conditions	8
4.3. Test Description	9
4.4. Statement of the measurement uncertainty	9
4.5. Equipments Used during the Test	10
5. TEST CONDITIONS AND RESULTS	11
5.1. AC Power Conducted Emission	11
5.2. Radiated Emission	14
5.3. 20dB Bandwidth	20
5.4. Antenna Requirement	21
6. TEST SETUP PHOTOS OF THE EUT	22
7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT	23

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2025.12.16	Initial Issue	Alisa Luo

2. TEST STANDARDS

The tests were performed according to following standards:

The tests were performed according to following standards:

[**FCC Rules Part 15.209:**](#) Periodic operation in the band 40.66-40.70 MHz and above 70 MHz.

[**ANSI C63.10:2020 :**](#) American National Standard for Testing Unlicensed Wireless Devices

[**ANSI C63.4: 2014:**](#) –American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz
Range of 9 kHz to 40GHz

3. SUMMARY

3.1. General Remarks

Date of receipt of test sample	:	2025.11.10
Testing commenced on	:	2025.11.11
Testing concluded on	:	2025.12.16

3.2. Product Description

Product Name:	RFID Digital Lock Box
Model/Type reference:	20002-AR/SR
Power Supply:	DC 5V by USB Port
Testing sample ID:	MTYP11209
Modulation:	ASK
Operation frequency:	125KHz
Channel number:	1
Antenna type:	Metal antenna
Antenna gain:	0dBi

3.3. Equipment Under Test

Power supply system utilised

Power supply voltage	:	☐ 230V / 50 Hz	☐ 120V / 60Hz
		☐ 12 V DC	☐ 24 V DC
		☒ Other (specified in blank below)	

DC 5V by USB Port

3.4. Short description of the Equipment under Test (EUT)

This is a RFID Digital Lock Box For more details, refer to the user's manual of the EUT.

3.5. EUT operation mode

Channel	Freq.(MHz)	Note(Modulation Type)
01	0.125	ASK

3.6. Block Diagram of Test Setup



3.7. Test Item (Equipment Under Test) Description*

Short designation	EUT Name	EUT Description	Serial number	Hardware status	Software status
EUT A	/	/	/	/	/
EUT B	/	/	/	/	/

*: declared by the applicant. According to customers information EUTs A and B are the same devices.

3.8. Auxiliary Equipment (AE) Description

AE short designation	EUT Name (if available)	EUT Description	Serial number (if available)	Software (if used)
AE 1	ADAPTER	MDY-10-EC	/	/
AE 2	/	/	/	/

3.9 Antenna Information

Short designation	Antenna Name	Antenna Type	Frequency Range	Serial number	Antenna Peak Gain
Antenna 1	/	Metal antenna	125KHz	---	0dBi
Antenna 2	/	/	/	/	/

*: declared by the applicant.

3.10. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

○ - supplied by the manufacturer

● - Supplied by the lab

●	ADAPTER	M/N:	MDY-10-EC
		Manufacturer:	Xiaomi Communications Co.,Ltd

3.11. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.
The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

Test Facility

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

FCC-Registration No.: 0031192610

Shenzhen Most Technology Service Co., Ltd. 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.

A2LA-Lab Cert. No.: 6343.01

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

4.2. Environmental conditions

Radiated Emission:

Temperature:	23 ° C
Humidity:	48 %
Atmospheric pressure:	950-1050mbar

Conducted testing:

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

4.3. Test Description

FCC and IC Requirements		
FCC Part 15.203	Antenna Requirement	PASS
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15, Paragraph 15.209(a)(f)	Spurious Emissions	PASS
FCC Part 15, Paragraph 15.215 (c)	20dB Occupied Bandwidth	PASS

Remark:

1. The measurement uncertainty is not included in the test result.
2. NA = Not Applicable; NP = Not Performed

4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Most Technology Service Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Most Technology Service Co., Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.5. Equipments Used during the Test

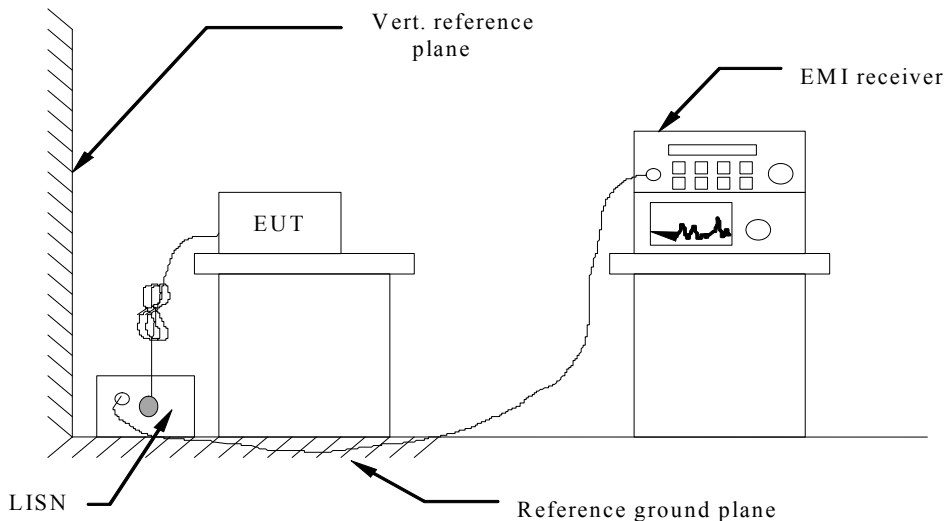
Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware versions	Last Cal.
1.	L.I.S.N.	R&S	ENV216	100093	/	2025/03/04
2	Three-phase artificial power network	Schwarzback Mess	NNLK8129	8129178	/	2025/03/04
3.	Receiver	R&S	ESCI	100492	V3.0-10-2	2025/03/04
4	Receiver	R&S	ESPI	101202	V3.0-10-2	2025/03/04
5	Spectrum analyzer	Agilent	9020A	MT-E306	A14.16	2025/03/04
6	Bilong Antenna	Sunol Sciences	JB3	A121206	/	2025/11/22
7	Horn antenna	HF Antenna	HF Antenna	MT-E158	/	2025/03/16
8	Loop antenna	Beijing Daze	ZN30900B	/	/	2025/03/04
9	Horn antenna	R&S	OBH100400	26999002	/	2025/03/16
10	Wireless Communication Test Set	R&S	CMW500	/	CMW-BASE-3.7.21	2025/03/04
11	Spectrum analyzer	R&S	FSP	100019	V4.40 SP2	2025/03/04
12	High gain antenna	Schwarzbeck	LB-180400KF	MT-E389	/	2025/03/04
13	Preamplifier	Schwarzbeck	BBV 9743	MT-E390	/	2025/03/04
14	Pre-amplifier	EMCI	EMC051845S E	MT-E391	/	2025/03/04
15	Pre-amplifier	Agilent	83051A	MT-E392	/	2025/03/04
16	High pass filter unit	Tonscend	JS0806-F	MT-E393	/	2025/03/04
17	RF Cable(below1GHz)	Times	9kHz-1GHz	MT-E394	/	2025/03/04
18	RF Cable(above 1GHz)	Times	1-40G	MT-E395	/	2025/03/04
19	RF Cable (9KHz-40GHz)	Tonscend	170660	N/A	/	2025/03/04
20	Power meter	R&S	NRVS	100444	/	2025/03/04

Note: The Cal.Interval was one year.

5. TEST CONDITIONS AND RESULTS

5.1. AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2020.
- 2 Support equipment, if needed, was placed as per ANSI C63.10:2020
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2020
- 4 The EUT received DC 5V power from adapter, the adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For unintentional device, according to RSS Gen 8.8 and § 15.207(a) Line Conducted Emission Limits is as following:

Frequency range (MHz)	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 RESULTS

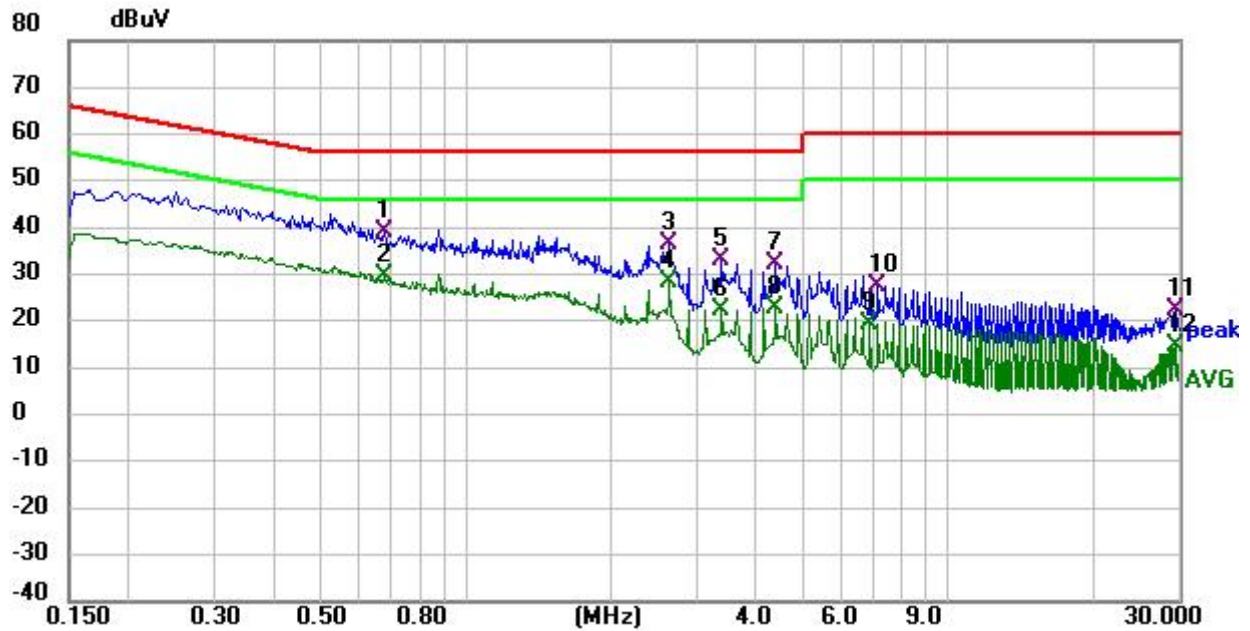
Remark:

Power supply:

DC 5V by USB Port

Polarization

L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.6780	29.33	9.60	38.93	56.00	-17.07	QP	P	
2 *	0.6780	20.09	9.60	29.69	46.00	-16.31	AVG	P	
3	2.6380	27.06	9.61	36.67	56.00	-19.33	QP	P	
4	2.6380	18.76	9.61	28.37	46.00	-17.63	AVG	P	
5	3.3900	23.34	9.61	32.95	56.00	-23.05	QP	P	
6	3.3900	12.90	9.61	22.51	46.00	-23.49	AVG	P	
7	4.3980	22.41	9.62	32.03	56.00	-23.97	QP	P	
8	4.3980	13.07	9.62	22.69	46.00	-23.31	AVG	P	
9	6.9100	9.78	9.65	19.43	50.00	-30.57	AVG	P	
10	7.1620	17.67	9.65	27.32	60.00	-32.68	QP	P	
11	29.7700	12.72	9.77	22.49	60.00	-37.51	QP	P	
12	29.7700	5.05	9.77	14.82	50.00	-35.18	AVG	P	

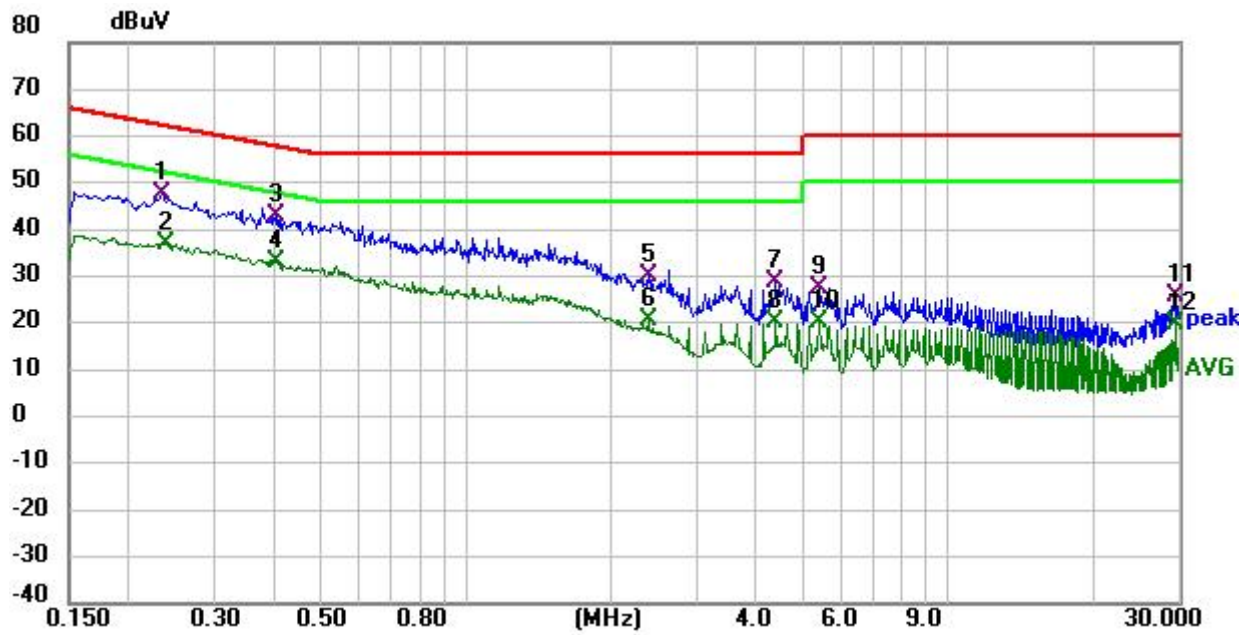
*:Maximum data x:Over limit !:over margin

Power supply:

DC 5V by USB Port

Polarization

N



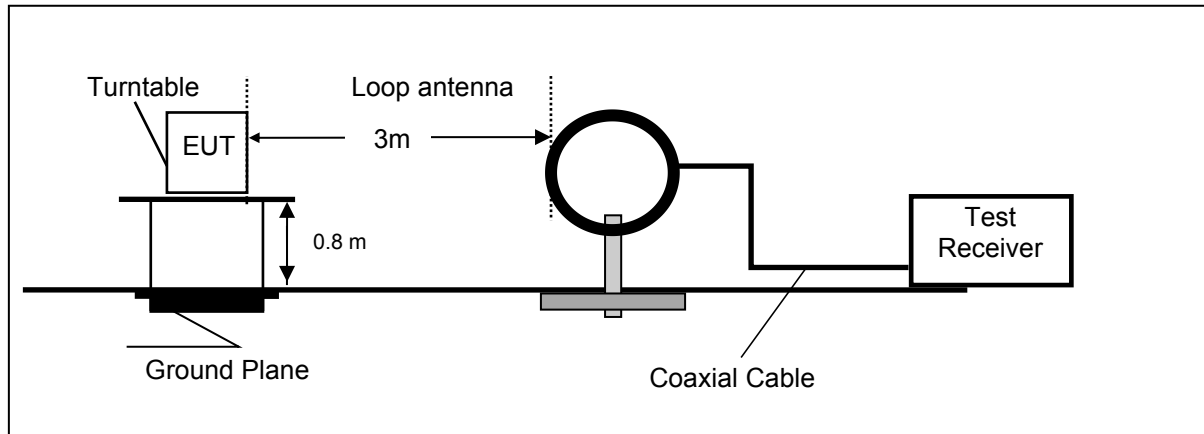
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.2340	38.01	9.66	47.67	62.31	-14.64	QP	P	
2	0.2380	27.40	9.66	37.06	52.17	-15.11	AVG	P	
3	0.4020	33.17	9.63	42.80	57.81	-15.01	QP	P	
4	0.4020	23.52	9.63	33.15	47.81	-14.66	AVG	P	
5	2.3860	20.60	9.67	30.27	56.00	-25.73	QP	P	
6	2.3860	10.98	9.67	20.65	46.00	-25.35	AVG	P	
7	4.3980	19.28	9.69	28.97	56.00	-27.03	QP	P	
8	4.3980	10.70	9.69	20.39	46.00	-25.61	AVG	P	
9	5.4020	17.90	9.71	27.61	60.00	-32.39	QP	P	
10	5.4020	10.51	9.71	20.22	50.00	-29.78	AVG	P	
11	29.7780	16.02	9.93	25.95	60.00	-34.05	QP	P	
12	29.7780	9.83	9.93	19.76	50.00	-30.24	AVG	P	

*:Maximum data x:Over limit !:over margin

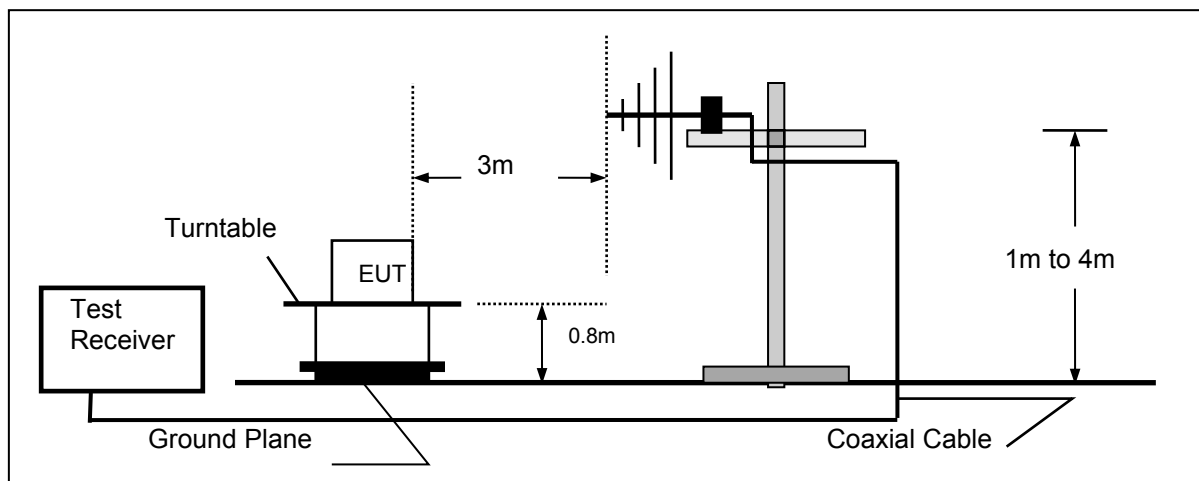
5.2. Radiated Emission

TEST CONFIGURATION

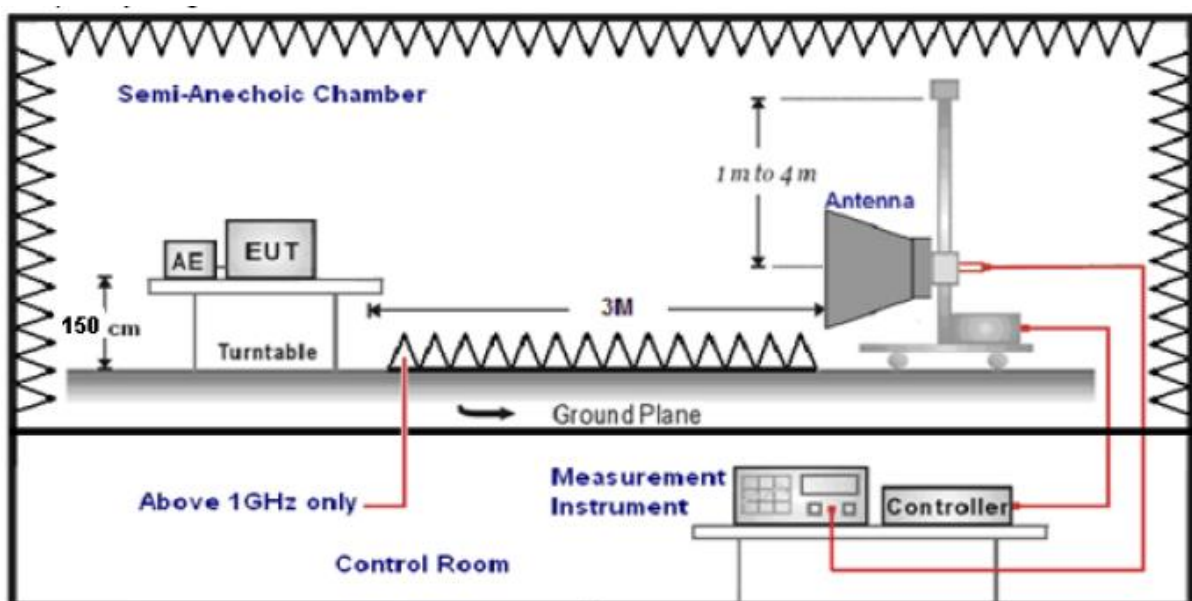
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. The EUT minimum operation frequency was 32.768KHz and maximum operation frequency was 2480MHz.so radiated emission test frequency band from 9KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Antenna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

$$\text{Transd}=AF +CL-AG$$

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Except when the requirements applicable to a given device state otherwise, emissions from licence-exempt transmitters shall comply with the field strength limits shown in table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission

Unwanted emissions that fall into restricted bands shall comply with the limits specified in RSS-Gen; and Unwanted emissions that do not fall within the restricted frequency bands shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.

Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

Test Results**0.009-0.15MHz**

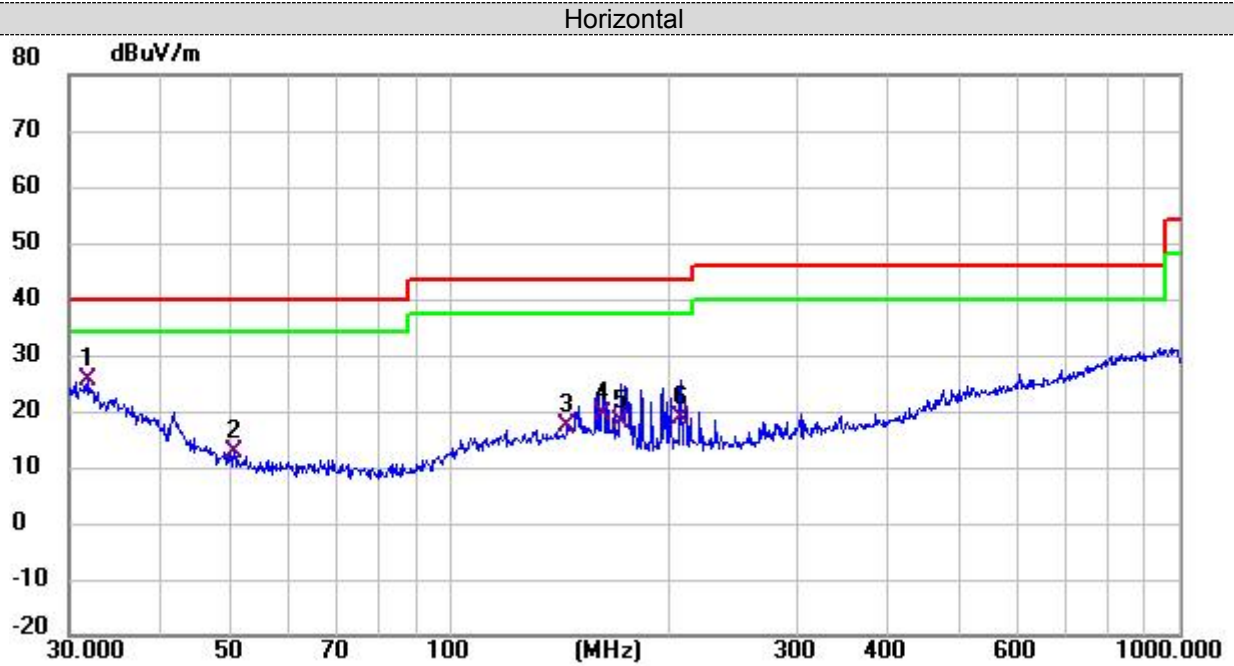
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0165	-3.27	19.84	16.57	123.31	-106.73	AVG
2	0.0205	-3.22	20.09	16.87	121.41	-104.75	AVG
3	0.0302	-4.11	19.90	15.79	118.03	-102.16	AVG
4	0.0501	-1.38	19.50	18.12	113.63	-95.54	AVG
5	0.0703	-0.99	18.93	17.94	110.65	-92.68	AVG
6	0.1251	35.39	17.55	52.94	105.67	-52.80	PEAK

0.15-30MHz

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.4486	10.58	20.18	30.76	94.57	-63.51	AVG
2	1.5827	14.71	20.32	35.03	63.62	-28.63	QP
3	2.0006	20.59	20.40	40.99	69.50	-28.12	QP
4	3.0758	18.26	20.12	38.38	69.50	-30.47	QP
5	5.4632	15.38	20.47	35.85	69.50	-33.40	QP
6	20.1778	13.89	22.32	36.21	69.50	-33.61	QP

Note : 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.

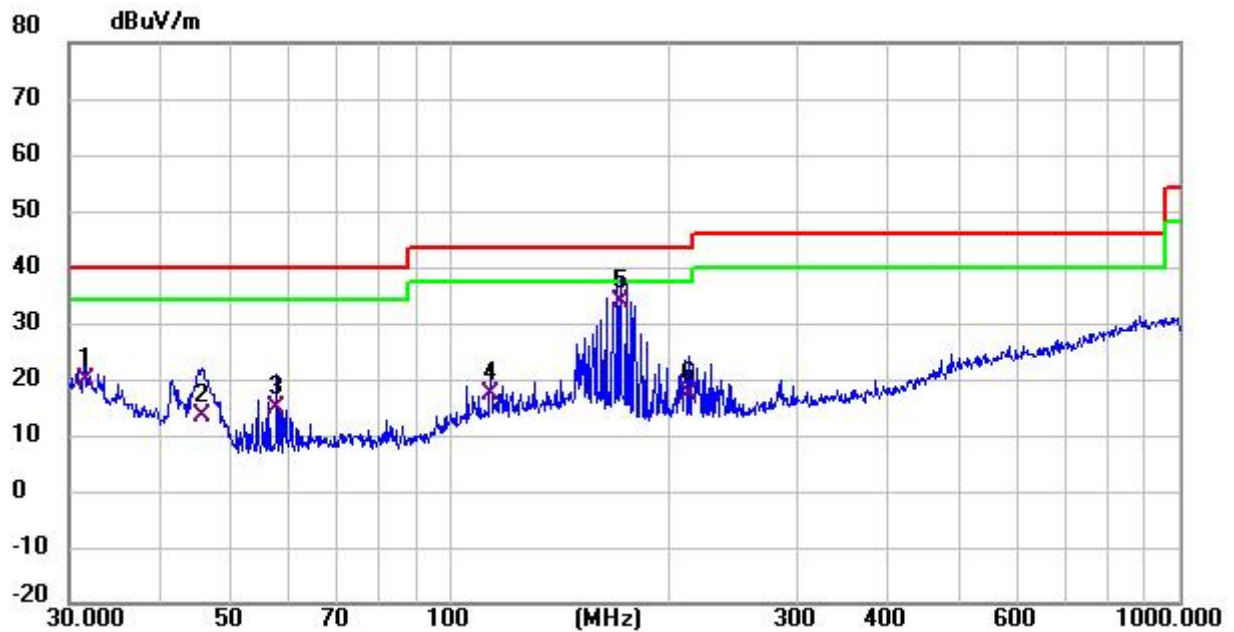
For 30MHz-1GHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	32.0400	1.26	24.13	25.39	40.00	-14.61	QP	200	10	P	
2	50.7599	0.68	12.08	12.76	40.00	-27.24	QP	200	50	P	
3	145.2400	0.09	17.08	17.17	43.50	-26.33	QP	200	100	P	
4	162.2800	2.36	17.22	19.58	43.50	-23.92	QP	200	150	P	
5	172.2000	1.32	16.89	18.21	43.50	-25.29	QP	200	230	P	
6	207.8000	3.58	15.14	18.72	43.50	-24.78	QP	200	300	P	

*:Maximum data x:Over limit !:over margin

vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	31.7200	0.24	19.73	19.97	40.00	-20.03	QP	100	20	P	
2	45.7599	3.15	10.14	13.29	40.00	-26.71	QP	100	50	P	
3	57.8000	6.34	8.49	14.83	40.00	-25.17	QP	100	150	P	
4	113.9200	2.34	15.13	17.47	43.50	-26.03	QP	100	200	P	
5 *	171.5600	16.75	16.91	33.66	43.50	-9.84	QP	100	230	P	
6	213.2800	2.34	15.09	17.43	43.50	-26.07	QP	100	330	P	

*:Maximum data x:Over limit !:over margin

5.3. 20dB Bandwidth

TEST CONFIGURATION



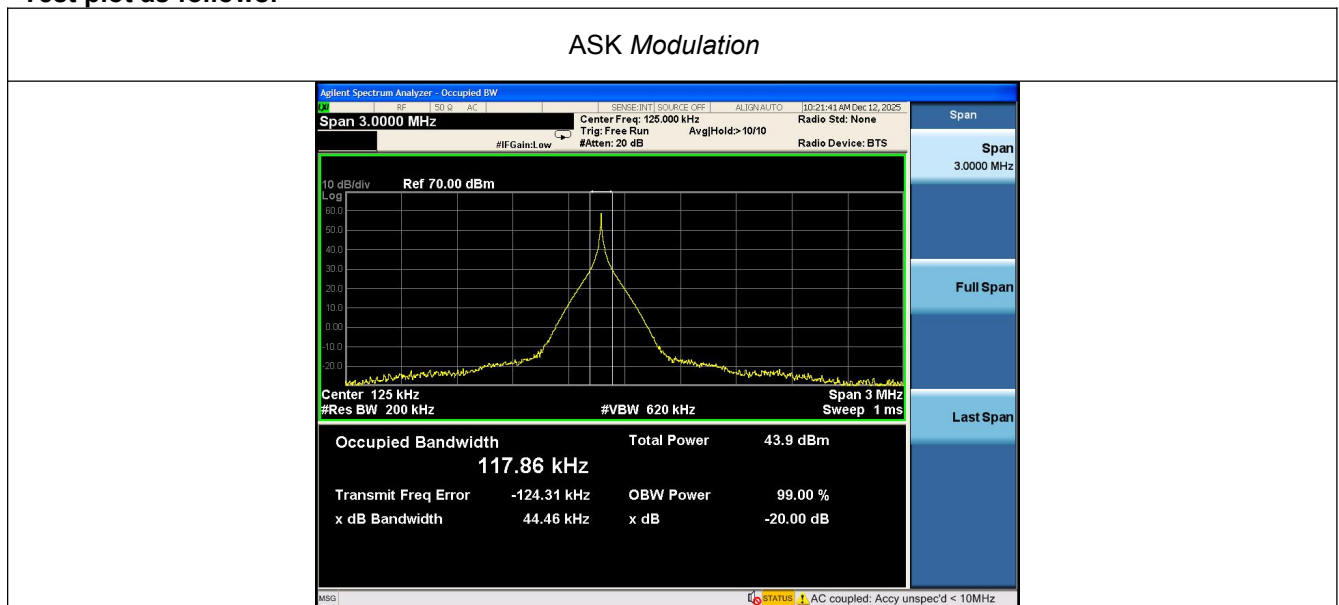
TEST PROCEDURE

- 1.Span= approximately 2 to 3 times the 20dB bandwidth, centered on a hopping channel.
- 2.Set the RBW = 200 Hz.
- 3.Set the VBW = set approximately 3 x RBW.
- 4.Sweep time = auto couple.
- 5.Detector function = peak.
- 6.Trace mode = max hold.
- 7.Allow trace to fully stabilize.

TEST RESULTS

Modulation	Channel Frequency (MHz)	99% OBW (KHz)	20dB bandwidth (KHz)
ASK	0.125	117.86	44.46

Test plot as follows:



5.4. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

Refer to statement below for compliance

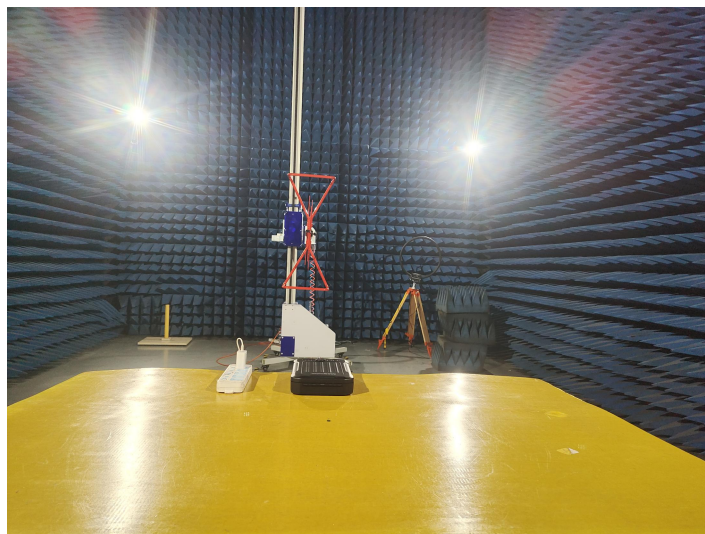
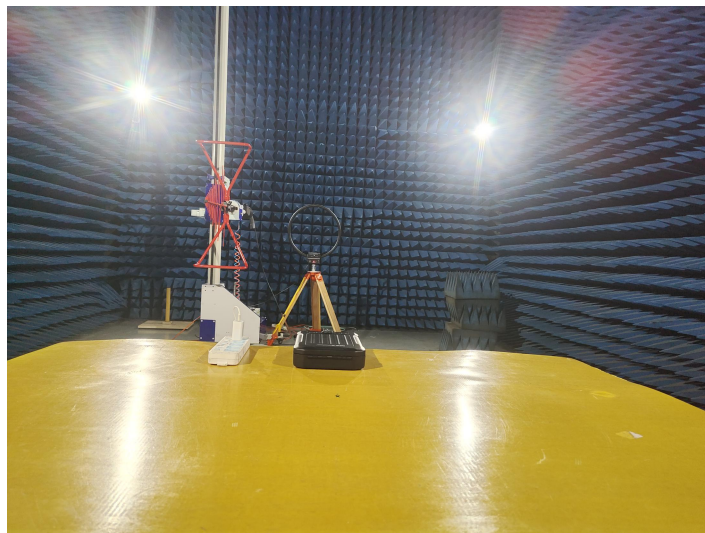
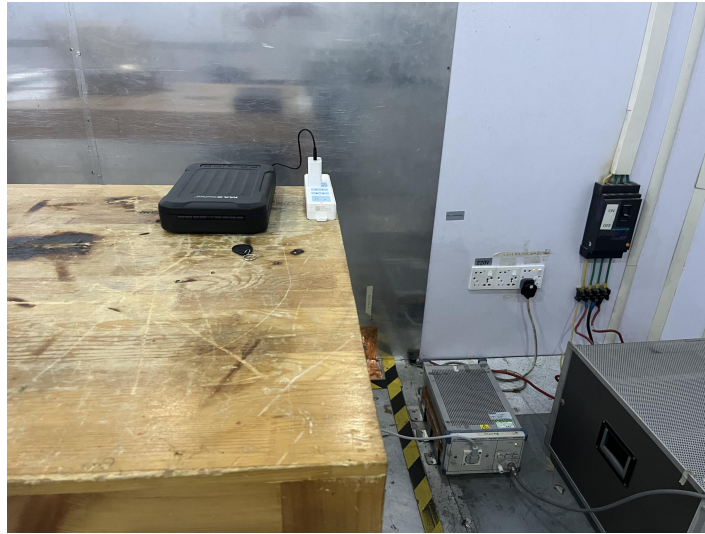
The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The directional gains of antenna used for transmitting is 0dBi, and the antenna is Metal antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.

Results: Compliance.

6. Test Setup Photos of the EUT



7. External and Internal Photos of the EUT

See related photo report.

.....**End of Report**.....