

Test Report

Product: Smart door lock

Trade Mark: N/A

Model Number: D1

FCC ID: 2AYPQ-D1

Prepared for

ZHUHAI MITALY INNOVATIONS TECHNOLOGY CO.,LTD
BLOCK 2 No.321 PINGBEI YI ROAD, NANPING TECHNOLOGY PARK,
ZHUHAI, China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's Name..... : ZHUHAI MITALY INNOVATIONS TECHNOLOGY CO.,LTD

Address : BLOCK 2 No.321 PINGBEI YI ROAD, NANPING
TECHNOLOGY PARK, ZHUHAI, China

Manufacturer's Name : ZHUHAI MITALY INNOVATIONS TECHNOLOGY CO.,LTD

Address : BLOCK 2 No.321 PINGBEI YI ROAD, NANPING
TECHNOLOGY PARK, ZHUHAI, China

Product description

Product name : Smart door lock

Model Number : D1

Standards : FCC Part 15.225

Test procedure..... : IEEE/ANSI C63.10-2020+Cor. 1-2023

This device described above has been tested by Shenzhen HongBiao Certification& Testing Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

Date of Test

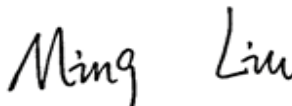
Date (s) of performance of tests..... : June 22, 2026~June 29, 2026

Test Result..... : **Pass**

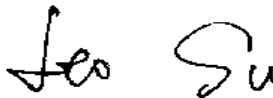
Testing Engineer :


(Z o e S u)

Technical Manager :


(M i n g L i u)

Authorized Signatory :


(L e o S u)

[illegible]

1 General Description

1.1 Description of EUT

Product name:	Smart door lock
Model name:	D1
Series Model:	D1K, DL1, DL1K, D Series
Different of series model:	All the models are the same circuit and module, except the colour and model No..
Operation frequency:	13.56MHz
Modulation type:	ASK
Antenna type:	Built-in Antenna
Antenna gain:	0dBi
Hardware version:	V1.0
Software version:	V1.0
Battery:	N/A
Power supply:	Input: DC 6V, 1.5A
Adapter information:	N/A

1.2 Test Mode

Pretest Test Mode	Description of Mode
1	Near Field Communication Mode
2	/
3	/

1.3 Operation Channel list

Channel	Frequency
1	13.56MHz

1.4 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.5 Power setting configuration parameters

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters.

Test software Version		N/A	
Frequency	13.56MHz		
Parameters	Default		
RF cable			
Description	Connector	Length	Supplied by
Antenna Cable	SMA	10cm	Applicant

Note: Disclaimer: the loss of RF cable is too small and can be ignored.

1.6 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
Battery	/	/	/
Adapter	CD289	35810	Ugreen Group Limited

Note: The notebook is used to assist the RF test. In order to prevent the notebook from causing unnecessary impact on the test, the notebook will be removed from the test environment after the EUT successfully transmits at a fixed frequency using the notebook.

2 Summary of Test Result

No.	Standard Section	Test Item	Result	Remark
1	15.203	Antenna requirement	Pass	
2	15.207	AC power line conducted emission	Pass	
3	15.205(a) 15.209 15.225(a/b/c/d)	Radiated Spurious Emission	Pass	
4	15.225 15.215(c)	Occupied Bandwidth	Pass	
5	15.225(e)	Frequency Tolerance	Pass	

3 Test Facilities and Accreditations

3.1 Test Laboratory

Test Site	Shenzhen HongBiao Certification& Testing Co., Ltd
Test Site Location	Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China
Telephone:	(86-755) 2998 9321
Fax:	(86-755) 2998 5110
Designation Number:	848916
FCC Registration No.:	CN1341
A2LA Certificate No.:	6765.01

3.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C~35°C
Relative Humidity:	20%~75%
Air Pressure:	98kPa~101kPa

3.3 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 %.

The data and results quoted in this document are true and accurate values, and uncertainties are not involved in the calculations.

In addition, components and mass production processes that are similar to testing equipment may introduce additional deviations, and the manufacturer is solely responsible for the continued compliance of the equipment.

Measurement Frequency Range	U, (dB)	Note
RF frequency	2×10^{-5}	
RF power, conducted	± 0.57 dB	
Conducted emission(150kHz~30MHz)	± 2.5 dB	
Radiated emission(9kHz-30MHz)	± 2.5 dB	
Radiated emission(30MHz~1GHz)	± 4.2 dB	
Radiated emission (above 1GHz)	± 4.7 dB	
Occupied Bandwidth	$\pm 3\%$	
Temperature	± 1 degree	
Humidity	$\pm 5 \%$	

3.4 Test Software

Software name	Manufacturer	Model	Version
Conducted Emission test Software	Farad	EZ-EMC	EMC-CON 3A1.1+
Radiated Emission test Software	Farad	EZ-EMC	FA-03A2
RF Test System	MWRF	MTS 8310	2.0.0.0

4 List of Test Equipment

Radiation emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E001	Horn Antenna	Schwarzbeck	BBHA 9120D	02592	2026-04-25	2028-04-24
2	HB-E002	Biconical log-periodic composite antenna	Schwarzbeck	VULB 9168	01340	2026-04-25	2028-04-24
3	HB-E003	SHF-EHF Horn	Schwarzbeck	BBHA 9170	01193	2026-04-25	2028-04-24
4	HB-E005	Preamplifier	Noyetec	LAN-0118	NYCM1420102	2026-04-27	2027-04-26
5	HB-E006	Preamplifier	Noyetec	LAN-1840	NYCM1420103	2026-04-30	2027-04-29
6	HB-E007	EMI TEST RECEIVER	R&S	ESR7	102520	2026-04-28	2027-04-27
7	HB-E009	POSITINAL COTROLLE R	Noyetec	N/A	N/A	/	/
8	HB-E013	RF switch	Noyetec	NY-RF4	NY0CM1420204	/	/
9	HB-E066	Illuminance Tester	TASI	TA8121	N/A	2026-04-30	2027-04-29
10	HB-E075	Active loop antenna	Schwarzbeck	FMZB 1519B	1519B-00245	2026-04-25	2028-04-24
11	HB-E076	Preamplifier	Hewlett Packard	8447D	1937A02278	2026-04-28	2027-04-27
Conduction emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E014	4 Path V-LISN	Schwarzbeck	NNLK 8121	00770	2026-04-27	2027-04-26
2	HB-E015	Pulse Limiter	Schwarzbeck	VTSD 9561-F	00949	2026-04-27	2027-04-26
3	HB-E016	Absorb clamp	ZHINAN	ZN23201	*21066*	2026-04-29	2027-04-28
4	HB-E059	Attenuator	Xianghua	TS2-6-1	220215166	2026-04-27	2027-04-26
5	HB-E069	EMI TEST RECEIVER	R&S	ESCI	100610	2026-04-27	2027-04-26

RF							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E041	MXG Anaioq Signal Generator	Agilent	N5181A	MY47070421	2026-04-27	2027-04-26
2	HB-E042	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW500	132108	2026-04-27	2027-04-26

3	HB-E043	MXG Anaio Signal Generator	Agilent	N5182A	US46240335	2026-04-28	2027-04-27
4	HB-E044	Signal& spectrum Analyzer	R&S	FSV3044	101264	2026-04-28	2027-04-27
5	HB-E045	RF Control Box	Noyetec	NY100-R FCB	N/A	2026-04-28	2027-04-27
6	HB-E058	Thermometer Clock Humidity Monitor	N/A	HTC-1S	N/A	2026-04-30	2027-04-29

Note: the calibration interval of the above test instruments is 12&24 months and the calibrations are traceable to international system unit (SI).

5 Test Item And Results

5.1 Antenna Requirement

5.1.1 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

5.1.2 Test Result

The EUT antenna is Built-in Antenna. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.

5.2 AC Power Line Conducted Emission

5.2.1 Limits

Limits – Class B		
Frequency (MHz)	Limit (dBμV)	
	Quasi-Peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50
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.		

5.2.2 Test Procedures

a) EUT Operating Conditions

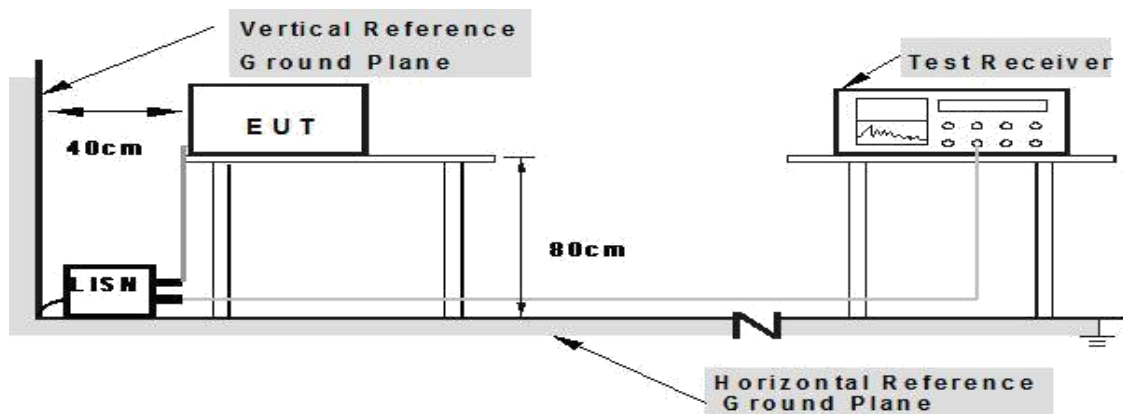
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b) 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

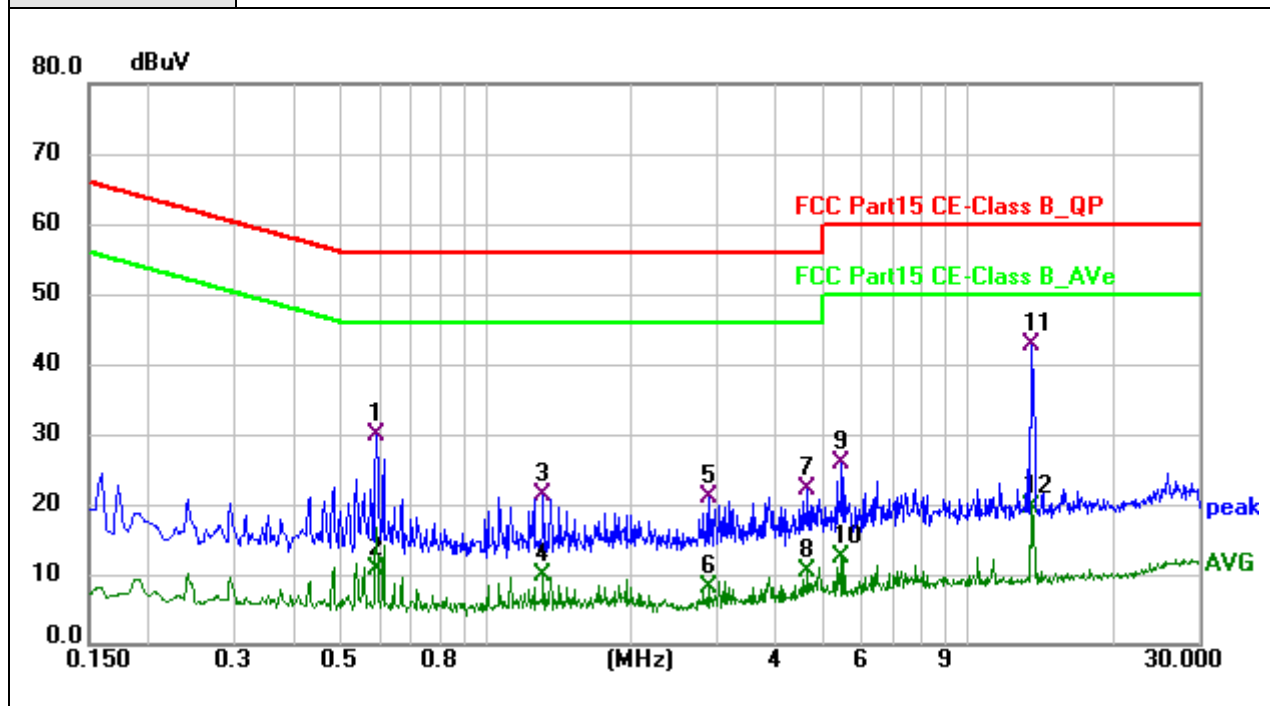
- c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- d) 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.
- e) 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.
- f) LISN is at least 80 cm from nearest part of EUT chassis.
- g) For the actual test configuration, please refer to the related Item – photographs of the test setup.

5.2.3 Test Setup



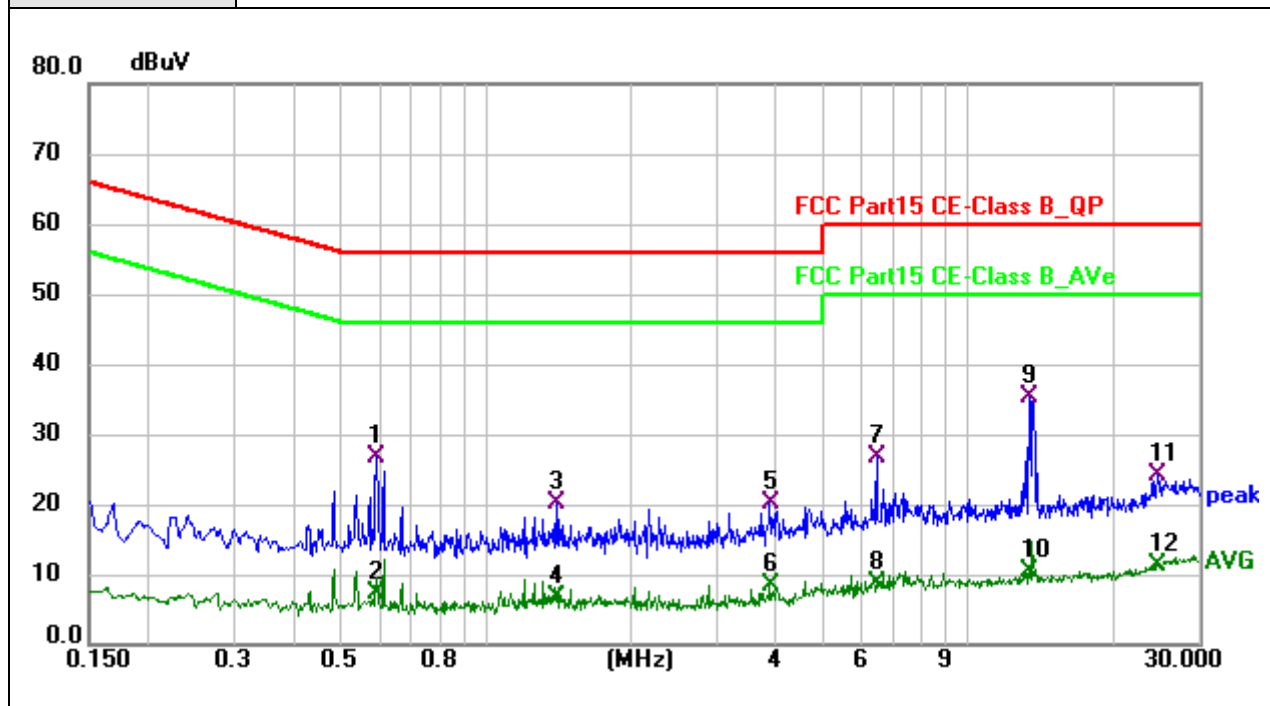
5.2.4 Test Result

EUT:	Smart door lock	Model Name:	D1
Test Mode:	Charging + TX	Phase:	L
Test Voltage:	DC 6V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.591	19.86	10.11	29.97	56.00	-26.03	QP
2	0.591	0.64	10.11	10.75	46.00	-35.25	AVG
3	1.311	11.14	10.20	21.34	56.00	-34.66	QP
4	1.311	-0.38	10.20	9.82	46.00	-36.18	AVG
5	2.886	10.40	10.61	21.01	56.00	-34.99	QP
6	2.886	-2.54	10.61	8.07	46.00	-37.93	AVG
7	4.650	10.96	11.23	22.19	56.00	-33.81	QP
8	4.650	-0.77	11.23	10.46	46.00	-35.54	AVG
9	5.469	14.33	11.61	25.94	60.00	-34.06	QP
10	5.469	0.92	11.61	12.53	50.00	-37.47	AVG
11 *	13.497	28.80	13.94	42.74	60.00	-17.26	QP
12	13.497	5.66	13.94	19.60	50.00	-30.40	AVG

EUT:	Smart door lock	Model Name:	D1
Test Mode:	Charging + TX	Phase:	N
Test Voltage:	DC 6V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.591	16.47	10.12	26.59	56.00	-29.41	QP
2	0.591	-2.71	10.12	7.41	46.00	-38.59	AVG
3	1.410	9.86	10.22	20.08	56.00	-35.92	QP
4	1.410	-3.55	10.22	6.67	46.00	-39.33	AVG
5	3.881	9.23	10.89	20.12	56.00	-35.88	QP
6	3.881	-2.43	10.89	8.46	46.00	-37.54	AVG
7	6.486	14.52	12.08	26.60	60.00	-33.40	QP
8	6.486	-3.44	12.08	8.64	50.00	-41.36	AVG
9 *	13.479	21.40	13.97	35.37	60.00	-24.63	QP
10	13.479	-3.42	13.97	10.55	50.00	-39.45	AVG
11	24.680	8.90	15.31	24.21	60.00	-35.79	QP
12	24.680	-4.00	15.31	11.31	50.00	-38.69	AVG

5.3 Radiated Emission

5.3.1 Limits

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Start Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

Note:

1. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

2. For Above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (Peak).

(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, equal to 124dBuV/m at 3 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, equal to 90.5dBuV/m at 3 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, equal to 80.5dBuV/m at 3 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.

5.3.2 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented. The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

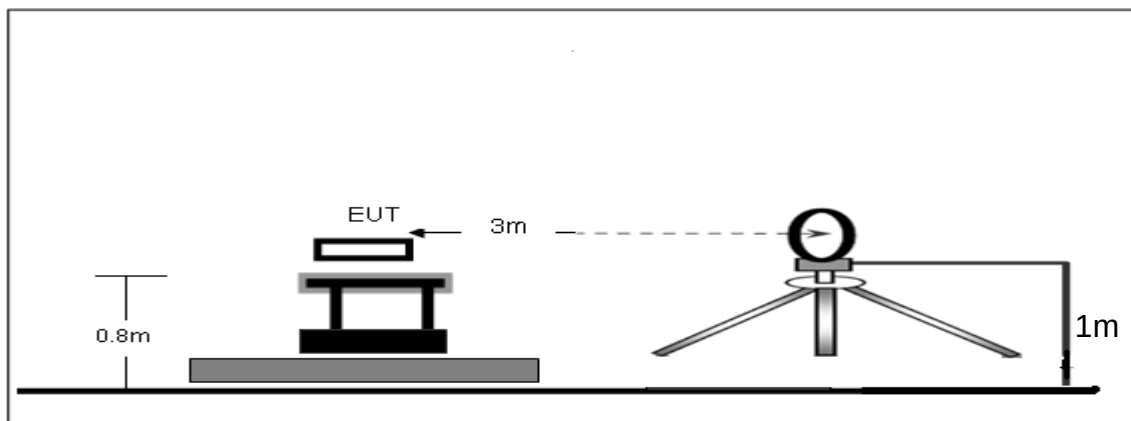
Sweep = auto

Detector function = peak

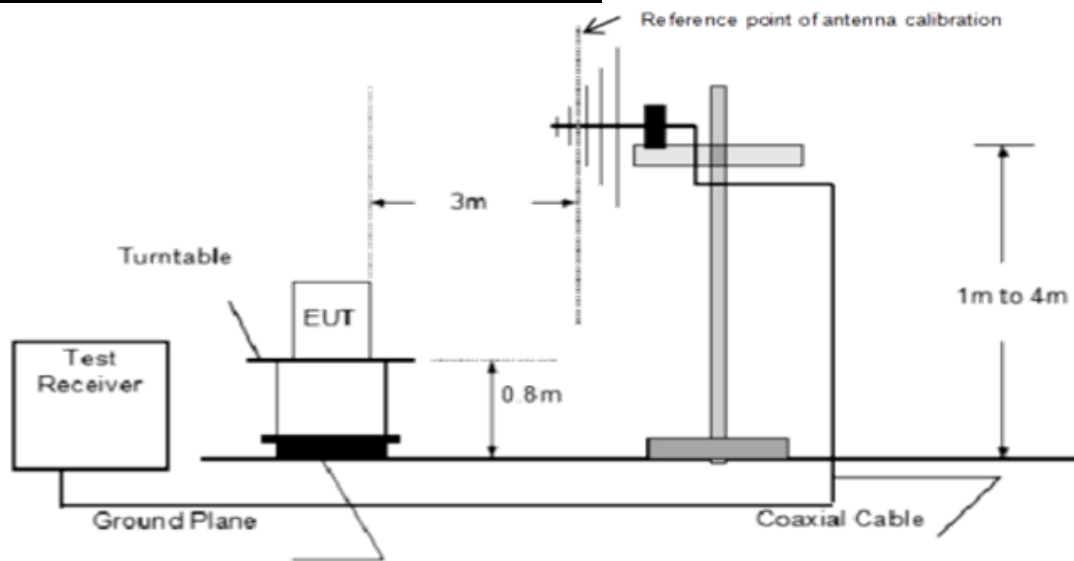
Trace = max hold

5.3.3 Test Setup

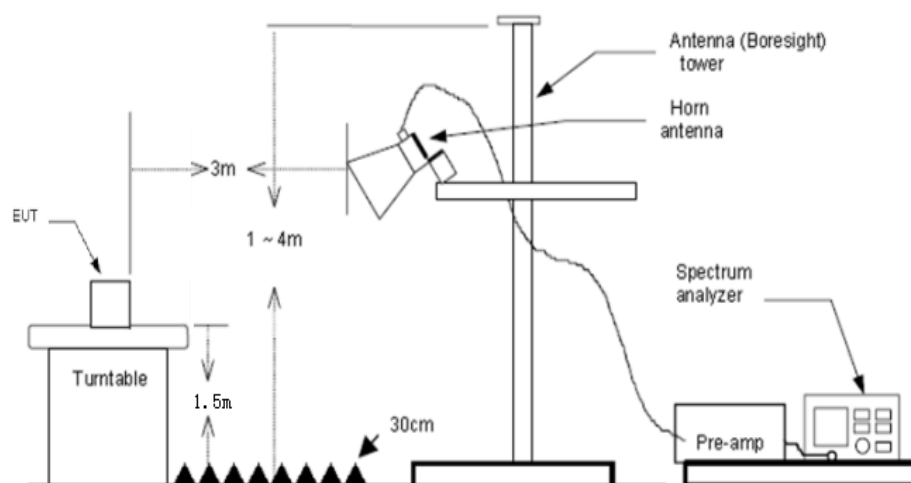
Radiated Emission Test-Up Frequency Below 30MHz



Radiated Emission Test-Up Frequency 30MHz~1GHz



Radiated emission test-up frequency above 1GHz



5.3.4 Test Result

Frequency range (9kHz – 30MHz)

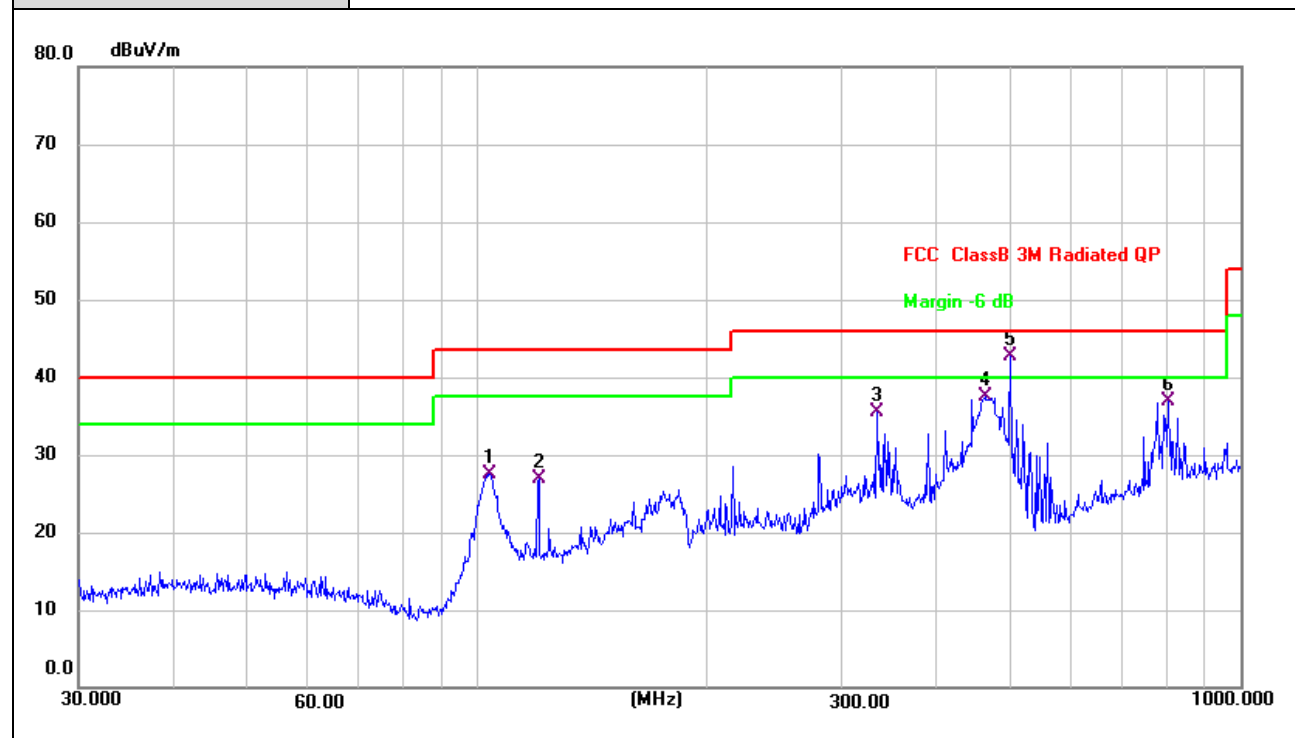
EUT:	Smart door lock	Model Name:	D1
Test Mode:	TX	Phase:	Coaxial
Test Voltage:	DC 6V from battery		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	0.3092	37.73	20.09	57.82	97.81	-39.99	AVG
2	0.3726	36.44	20.07	56.51	96.18	-39.67	AVG
3	0.4601	31.00	20.05	51.05	94.35	-43.30	AVG
4	0.6416	27.58	20.11	47.69	71.47	-23.78	QP
5	0.7859	18.62	21.73	40.35	69.71	-29.36	QP
6 *	13.5481	25.85	20.91	46.76	69.50	-22.74	QP

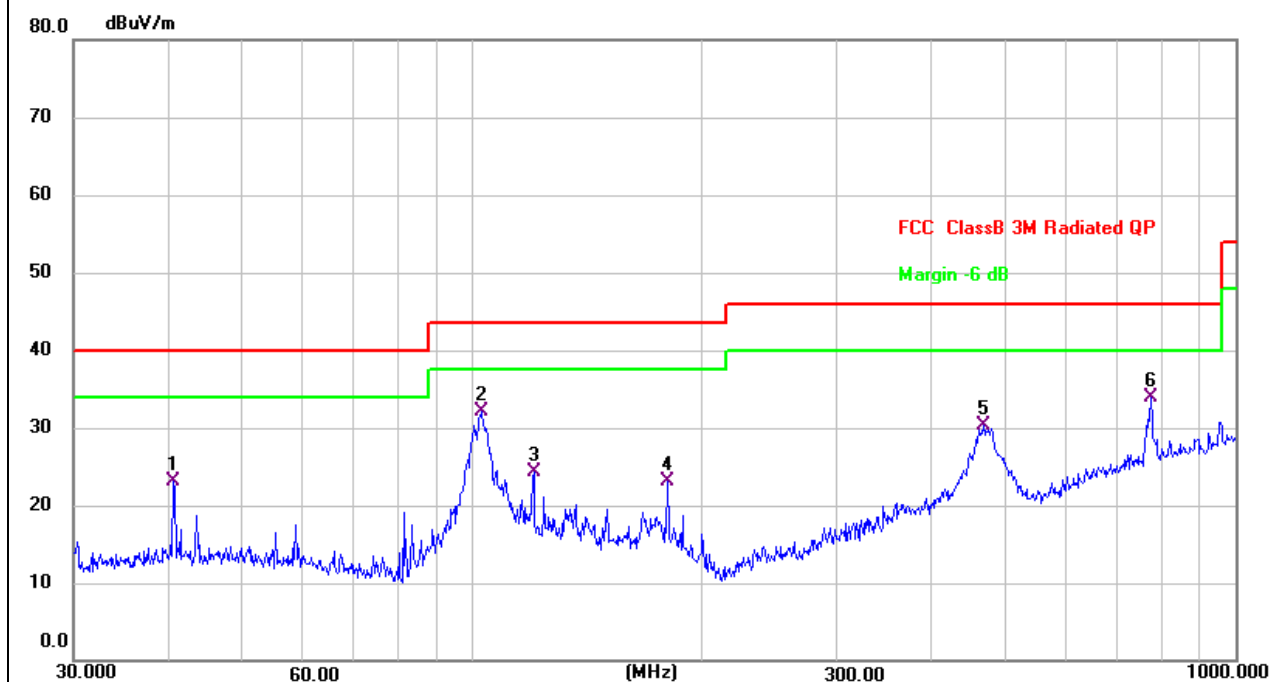
Frequency range (30MHz – 1GHz)

EUT:	Smart door lock	Model Name:	D1
Test Mode:	TX	Phase:	Horizontal
Test Voltage:	DC 6V from battery		



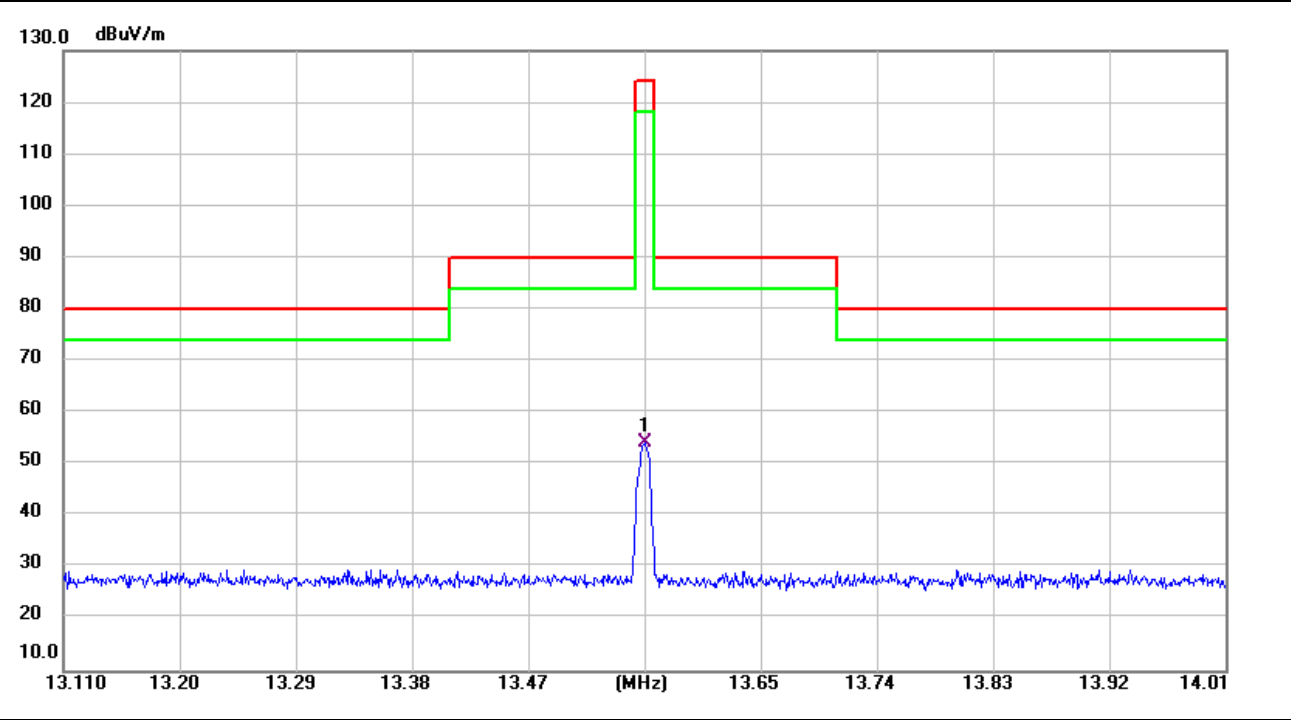
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	103.8055	44.87	-17.32	27.55	43.50	-15.95	QP
2	120.2766	42.31	-15.34	26.97	43.50	-16.53	QP
3	333.6867	46.89	-11.43	35.46	46.00	-10.54	QP
4	463.9696	45.37	-7.86	37.51	46.00	-8.49	QP
5 *	499.4247	49.88	-7.26	42.62	46.00	-3.38	QP
6	804.6028	36.27	0.60	36.87	46.00	-9.13	QP

EUT:	Smart door lock	Model Name:	D1
Test Mode:	TX	Phase:	Vertical
Test Voltage:	DC 6V from battery		



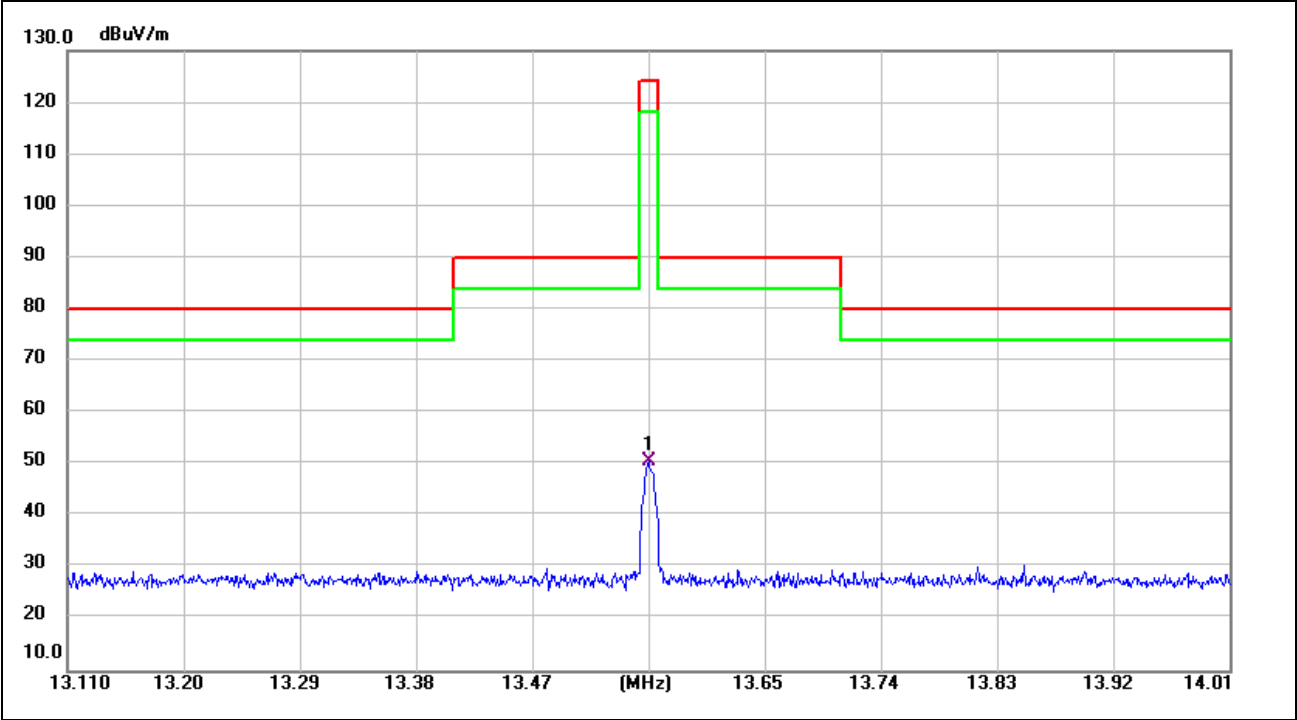
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	40.5591	36.87	-13.82	23.05	40.00	-16.95	QP
2 *	102.7192	49.48	-17.44	32.04	43.50	-11.46	QP
3	120.2766	39.72	-15.34	24.38	43.50	-19.12	QP
4	180.0164	38.11	-14.97	23.14	43.50	-20.36	QP
5	467.2349	38.08	-7.76	30.32	46.00	-15.68	QP
6	774.1584	33.89	0.10	33.99	46.00	-12.01	QP

EUT:	Smart door lock	Model Name:	D1
Test Mode:	Mode 1	Phase:	X
Test Voltage:	DC 6V from battery		



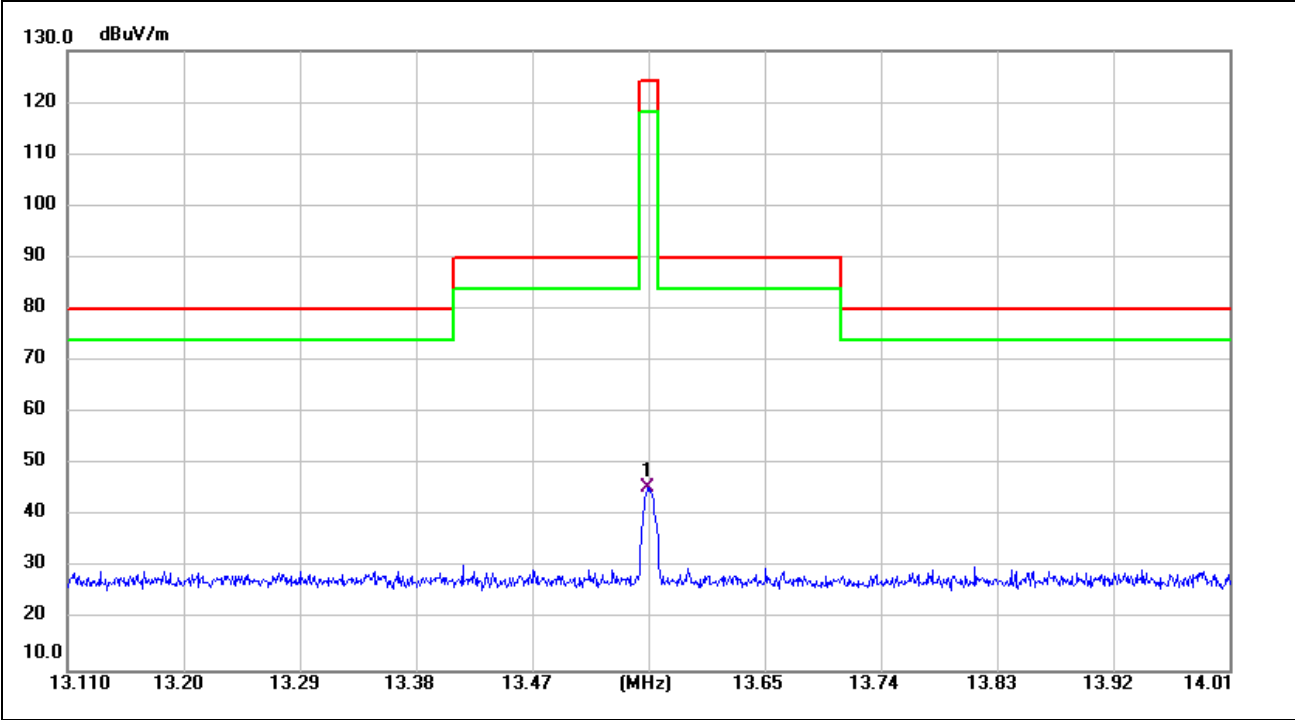
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	13.5609	33.20	20.91	54.11	124.00	-69.89	QP

EUT:	Smart door lock	Model Name:	D1
Test Mode:	Mode 1	Phase:	Y
Test Voltage:	DC 6V from battery		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	13.5600	29.64	20.91	50.55	124.00	-73.45	QP

EUT:	Smart door lock	Model Name:	D1
Test Mode:	Mode 1	Phase:	Z
Test Voltage:	DC 6V from battery		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	13.5591	24.59	20.91	45.50	124.00	-78.50	QP

5.4 Occupied Bandwidth

5.4.1 Limit

Operation within the band 13.110 MHz to 14.010 MHz

5.4.2 Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW $\geq 1\%$ of the 20 dB bandwidth

VBW $\geq$ RBW

Sweep = auto

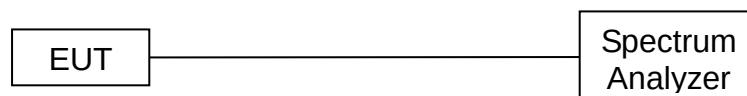
Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth and 99% occupied bandwidth of the emission.

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 300 Hz to perform the occupied bandwidth test.

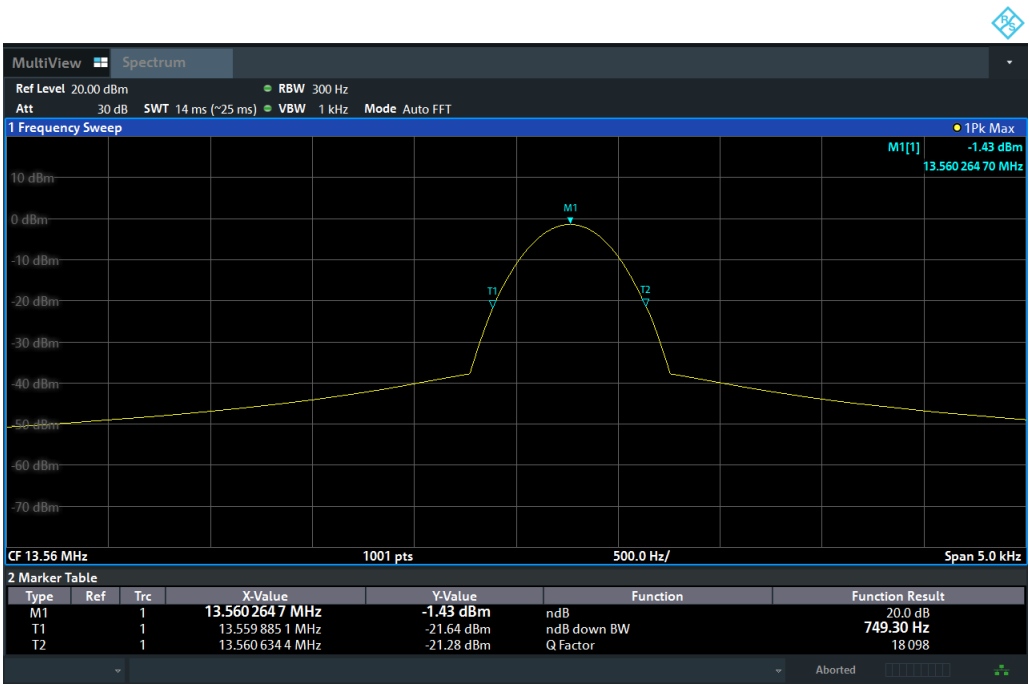
5.4.3 Test Setup



5.4.4 Test Results

Frequency (MHz)	20dB emission bandwidth (Hz)
13.56	749.30

Test plots



5.5 Frequency stability

5.5.1 Limit

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a 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.

5.5.2 Test Procedure

Setup the EUT as show in the block diagram above.

Set Spectrum Analyzer

Centre Frequency= Fundamental Frequency

RBW=100 kHz, VBW= 300 kHz

Span= 0 Hz

Sweep Time= 5 Seconds.

Setup the EUT as normal operation and press Transmitter button

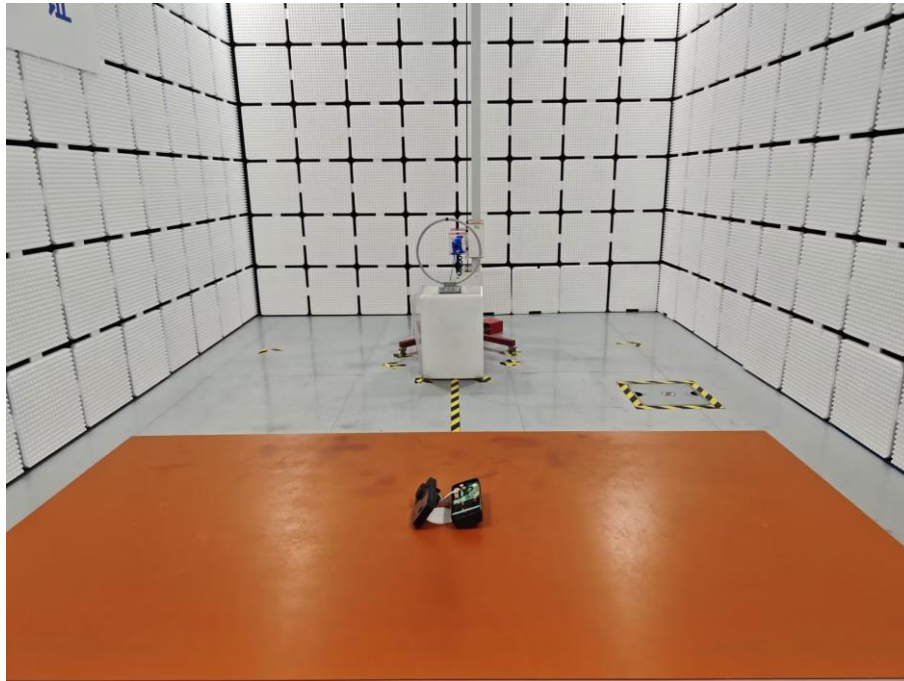
Release the button, use Delta Mark function to test the time.

5.5.3 Test Results

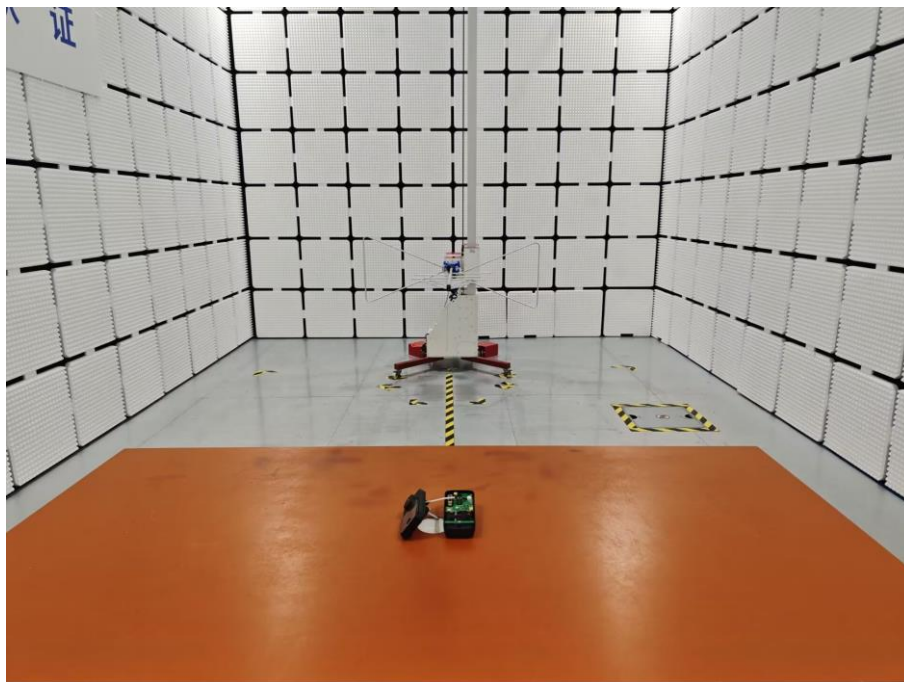
Voltage (Vdc)	Temp. (°C)	Frequency (MHz)	Deviation (%)	Limit (%)
6	-20	13.56055	0.0041	$\pm 0.01\%$
6	-10	13.56064	0.0047	
6	0	13.56044	0.0032	
6	10	13.56039	0.0029	
6	20	13.56072	0.0053	
6	30	13.56049	0.0036	
6	40	13.56074	0.0055	
6	50	13.56079	0.0058	
5.4	20	13.56078	0.0058	
6.6	20	13.56055	0.0041	

6 Photographs of the Test Setup

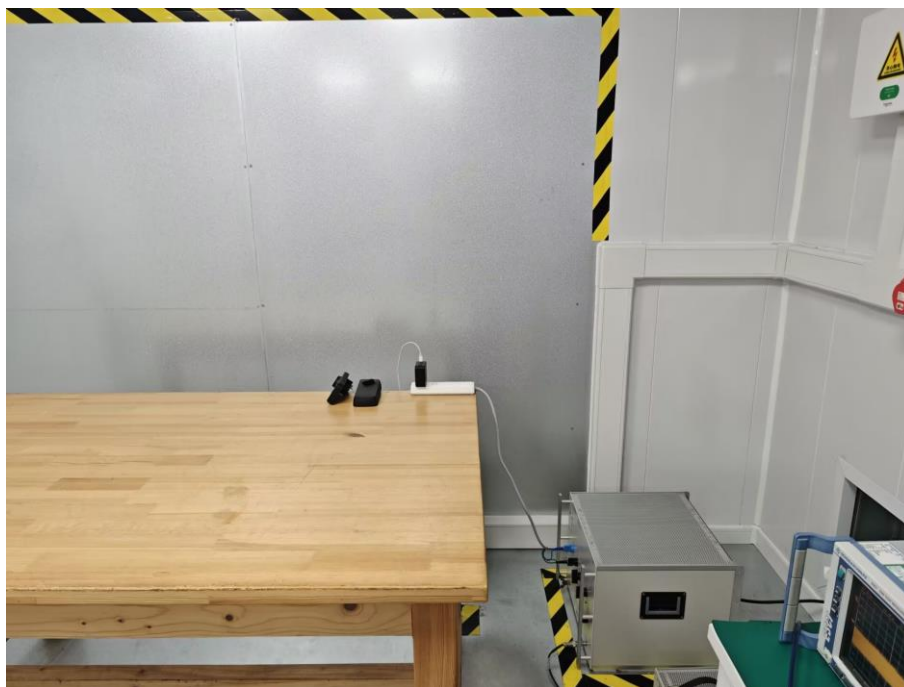
Radiated Emission Below 30MHz



Radiated Emission Above 30MHz



Conducted Emission



7 Photographs of the EUT

Please refer to report HB20260618005E-01 for product photos.

******* END OF REPORT *******