

# **FCC Test Report**

Report No. : 1812C50196512501

Applicant : Shenzhen Royal Gold Shield Intelligent

Technology Co., Ltd.

No. 301, Building A, Dawo 2nd Road,

Address : Longtian Street, Pingshan District, Shenzhen,

**Guangdong, China** 

**Product Name : Smart lock** 

Report Date : 2025-05-28

**Shenzhen Anbotek Compliance Laboratory Limited** 

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FCC ID: 2BL9C-G10

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# TEST REPORT

Applicant : Shenzhen Royal Gold Shield Intelligent Technology Co., Ltd.

Manufacturer : Shenzhen Chengxia E-Commerce Co., Ltd.

Product Name : Smart lock

Model No. : G7, G10

Trade Mark : DEVO

Rating(s) : Input: 5V=2A

Test Standard(s) : 47 CFR Part 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 47 CFR Part 15.225 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	2025-04-27
Date of Test	2025-04-27 to 2025-05-13
Prepared By	Haidi Huang
	(Haidi Huang)
Approved & Authorized Signer	Augo Chen
	(Hugo Chen)

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# **Revision History**

Report Version	Description	Issued Date	
R00	Original Issue.	2025-05-28	



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# 1. General Information

#### 1.1. Client Information

Applicant	:	Shenzhen Royal Gold Shield Intelligent Technology Co., Ltd.	
Address	:	No. 301, Building A, Dawo 2nd Road, Longtian Street, Pingshan District, Shenzhen, Guangdong, China	
Manufacturer	:	Shenzhen Chengxia E-Commerce Co., Ltd.	
Address	:	C901, Luling Building, No. 1126, Nigang East Road, Qingshuihe Community, Qingshuihe Street, Luohu District, Shenzhen, China	
Factory	:	Shenzhen Royal Gold Shield Intelligent Technology Co., Ltd.	
Address	:	No. 301, Building A, Dawo 2nd Road, Longtian Street, Pingshan District, Shenzhen, Guangdong, China	

# 1.2. Description of Device (EUT)

Product Name	:	Smart lock
		G7, G10
Model No.	:	(Note: All samples are the same except the model name, so we prepare
		"G7" for test only.)
Trade Mark	:	DEVO
Test Power Supply	:	DC 5V 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		12 FGMI I-
Frequency	:	13.56MHz
Number of Channel	:	1 Channel
Modulation Type	:	ASK
Antenna Type	:	PCB Antenna

**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.

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# 1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.	
Xiaomi 33W adapter	aomi 33W adapter Xiaomi		SA62212LA04358J	

# 1.4. Description of Test Configuration

The engineering test program was provided and the EUT was programmed to be in transmitting mode.

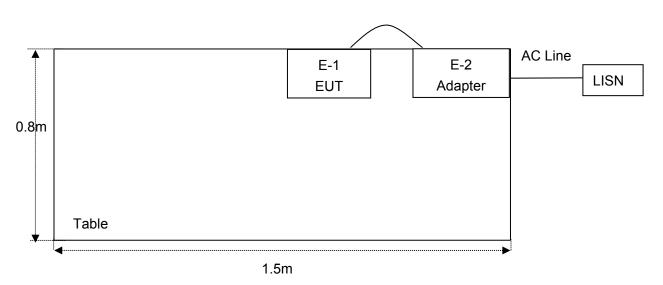
Channel	Freq.(MHz)
01	13.56



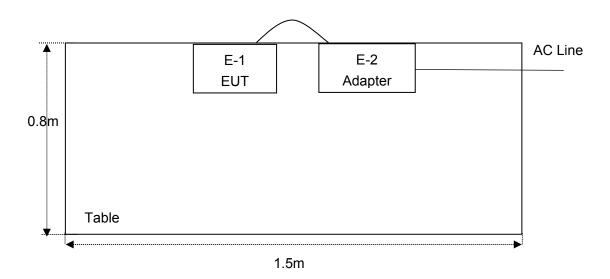
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# 1.5. Description Of Test Setup

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# 1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
пеш	L.I.S.N.	Manuacturei	Woder No.	Serial No.	Lasi Cai.	Cai. Interval
1.	Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-09-09	1 Year
2.	Three Phase V- type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT00	2025-01-13	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2025-01-13	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2025-01-14	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	2024-09-09	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G- 45	SKET-PA-002	2025-01-13	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	3 Year
9.	Loop Antenna(9K- 30M)	Schwarzbeck	FMZB1519B	00053	2024-09-12	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	2024-01-22	3 Year
11.	Pre-amplifier	SONOMA	310N	186860	2025-01-14	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	2024-09-09	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY47420647	2025-02-21	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	2025-02-21	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	2024-09-09	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	2024-10-14	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2025-04-25	1 Year

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#### 1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.2dB
Occupied Bandwidth	925Hz
Frequency tolerance	74.60Hz
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (Below 30MHz)	3.26dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.70dB; Vertical: 4.42dB
	1G-6GHz: 4.64dB
Radiated spurious emissions (above 1GHz)	6G-18GHz: 4.82dB
	18G-40GHz: 5.62dB

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.: 279531

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. 279531.

#### 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.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

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#### 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.
- 7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

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

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# 2. Summary of Test Results

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

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#### 3. Conducted Emission Test

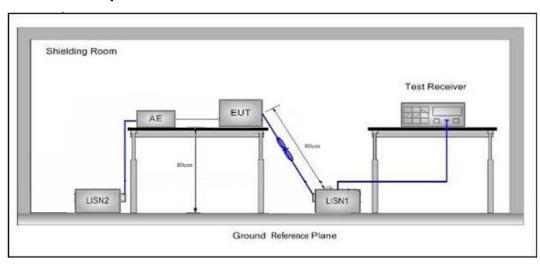
#### 3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207				
	Fraguanay	Maximum RF Line Voltage (dBuV)			
Test Limit	Frequency	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.

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#### **Conducted Emission Test Data**

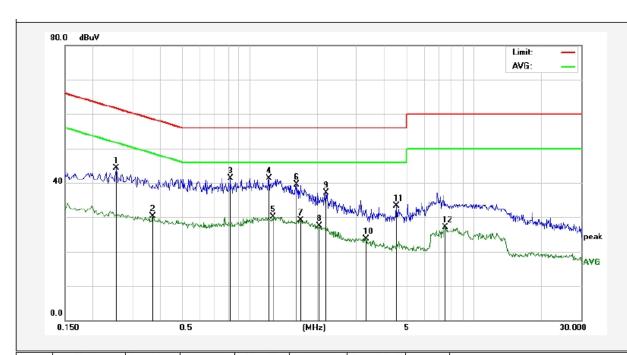
Test Site: 1# Shielded Room

Operating Condition: 13.56MHz

**Test Specification:** DC 5V from Adapter input AC 120V/60Hz

Comment: Live Line

Temp.(°C)/Hum.(%RH): 24.6°C/59%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.2540	26.49	17.84	44.33	61.62	-17.29	QP	
2	0.3700	12.57	17.82	30.39	48.50	-18.11	AVG	
3	0.8260	23.43	17.87	41.30	56.00	-14.70	QP	
4	1.2220	23.43	17.85	41.28	56.00	-14.72	QP	
5	1.2740	12.22	17.86	30.08	46.00	-15.92	AVG	
6	1.6260	21.72	17.85	39.57	56.00	-16.43	QP	
7	1.6860	11.33	17.85	29.18	46.00	-16.82	AVG	
8	2.0460	9.58	17.85	27.43	46.00	-18.57	AVG	
9	2.1900	19.30	17.85	37.15	56.00	-18.85	QP	
10	3.3100	5.94	17.85	23.79	46.00	-22.21	AVG	
11	4.5220	15.37	17.86	33.23	56.00	-22.77	QP	
12	7.3780	9.19	17.91	27.10	50.00	-22.90	AVG	





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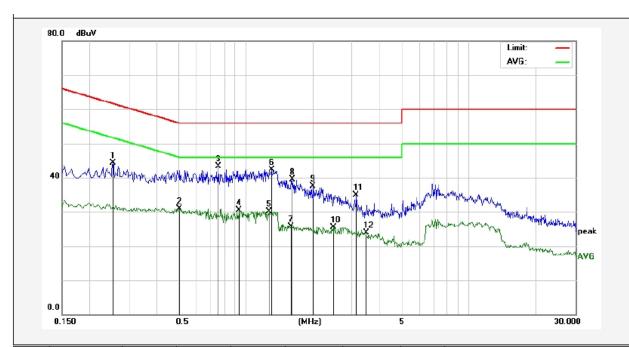
#### **Conducted Emission Test Data**

Test Site: 1# Shielded Room

Operating Condition: 13.56MHz

**Test Specification:** DC 5V from Adapter input AC 120V/60Hz

Comment: **Neutral Line** Temp.(°C)/Hum.(%RH): 24.6°C/59%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.2540	26.49	17.84	44.33	61.62	-17.29	QP	
2	0.5060	13.00	17.86	30.86	46.00	-15.14	AVG	
3	0.7580	25.42	17.87	43.29	56.00	-12.71	QP	
4	0.9340	12.74	17.86	30.60	46.00	-15.40	AVG	
5	1.2740	12.22	17.86	30.08	46.00	-15.92	AVG	
6	1.3060	24.46	17.86	42.32	56.00	-13.68	QP	
7	1.5940	7.92	17.85	25.77	46.00	-20.23	AVG	
8	1.6260	21.72	17.85	39.57	56.00	-16.43	QP	
9	2.0100	19.68	17.85	37.53	56.00	-18.47	QP	
10	2.4620	7.64	17.85	25.49	46.00	-20.51	AVG	
11	3.1260	17.15	17.85	35.00	56.00	-21.00	QP	
12	3.4660	5.96	17.85	23.81	46.00	-22.19	AVG	



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# 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)		
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300		
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30		
	1.705MHz-30MHz	30	-	-	30		
Test Limit	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		
	Above 1000IVIHZ	-	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







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#### 4.2. Test Setup

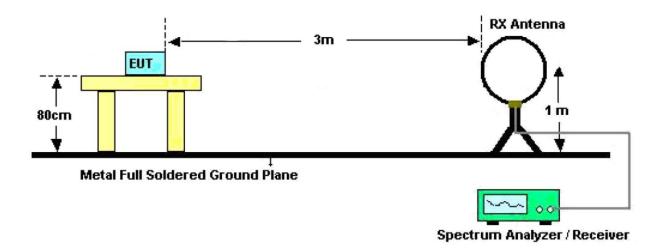


Figure 1. Below 30MHz

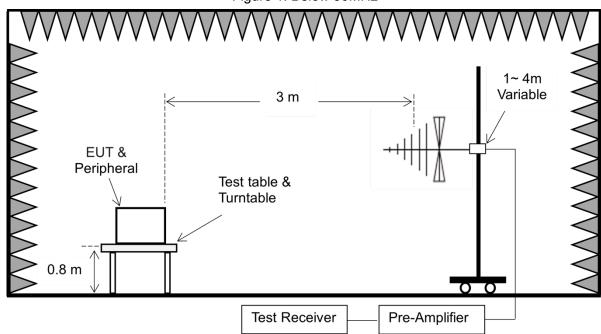


Figure 2. 30MHz to 1GHz

#### 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.

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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 (coplane, coaxial), and found the coplane is the worst case.



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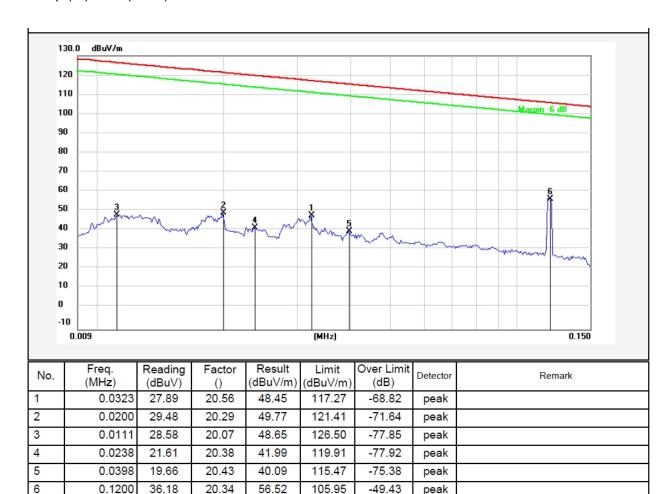
#### Test Results (9KHz~0.15MHz)

Test Mode: 13.56MHz

Power Source: DC 5V from Adapter input AC 120V/60Hz

Polarization: Coplane

Temp.(°C)/Hum.(%RH): 23.5°C/49%RH



peak



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#### Test Results (0.15MHz~30MHz)

Test Mode: 13.56MHz

Power Source: DC 5V from Adapter input AC 120V/60Hz

Polarization: Coplane

Temp.(°C)/Hum.(%RH): 23.5°C/49%RH



No.	(MHz)	(dBuV)	()	(dBuV/m)	(dBuV/m)	(dB)	Detector	Remark
1	13.5600	25.84	20.53	46.37	69.50	-23.13	peak	
2	2.6500	19.14	20.29	39.43	69.50	-30.07	peak	
3	0.9481	18.58	20.26	38.84	68.08	-29.24	peak	
4	0.4148	23.24	20.27	43.51	95.24	-51.73	peak	
5	0.1814	24.59	20.32	44.91	102.38	-57.47	peak	
6	0.2714	22.96	20.30	43.26	98.90	-55.64	peak	



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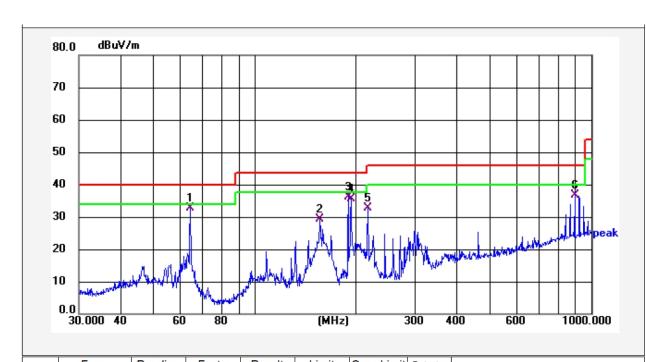
# Test Results (30~1000MHz)

Test Mode: 13.56MHz

Power Source: DC 5V from Adapter input AC 120V/60Hz

Polarization: Horizontal

Temp.(°C)/Hum.(%RH): 24.4°C/48%RH



No.	Freq. (MHz)	(dBuV)	(dB/m)	(dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Remark
1	64.377	58.84	-26.05	32.79	40.00	-7.21	QP	
2	156.526	55.99	-26.69	29.30	43.50	-14.20	QP	
3	189.822	60.81	-24.80	36.01	43.50	-7.49	QP	
4	193.179	60.04	-24.52	35.52	43.50	-7.98	QP	
5	216.973	56.88	-24.12	32.76	46.00	-13.24	QP	
6	895.033	45.61	-9.03	36.58	46.00	-9.42	QP	



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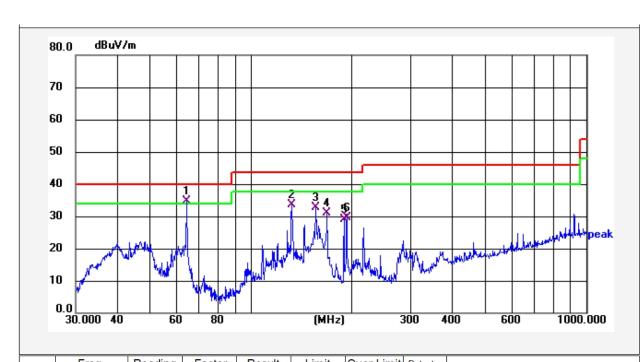
# Test Results (30~1000MHz)

Test Mode: 13.56MHz

Power Source: DC 5V from Adapter input AC 120V/60Hz

Polarization: Vertical

Temp.(°C)/Hum.(%RH): 24.4°C/48%RH



No.	Freq.	Reading	Factor	Result	Limit	Over Limit	Detector	Remark
110.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		roman
1	64.377	60.68	-26.05	34.63	40.00	-5.37	QP	
2	132.394	59.82	-26.34	33.48	43.50	-10.02	QP	
3	156.458	59.37	-26.70	32.67	43.50	-10.83	QP	
4	168.488	58.74	-27.88	30.86	43.50	-12.64	QP	
5	189.822	56.66	-27.78	28.88	43.50	-14.62	QP	
6	193.264	56.46	-26.86	29.60	43.50	-13.90	QP	



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#### **Test Results (Inband)**

Inc	Indicated					Correction Factor			Corrected	FCC part	15.225
Frequency Range (MHz)	Mark Point (MHz)	Corrected Amplitude (dBuV/m) @3m	Table Angle Degree	Antenna Height (m)	Detector	Ant. Factor (dB)	Cable Loss (dB)	Pre- Amp. Gain (dB)	Amplitude (dBuV/m) @3m	Limit (dBuV/m) @3m	Result
13.110~13.410	13.387	45.65	0	1.0	QP	20.8	0.2	30.2	36.45	80.5	PASS
13.410~13.553	13.544	51.26	0	1.0	QP	20.9	0.2	30.2	42.16	90.5	PASS
13.553~13.567	13.560	55.55	0	1.0	QP	20.9	0.2	30.2	46.45	124	PASS
13.567~13.710	13.570	48.79	0	1.0	QP	21.1	0.2	30.2	39.89	90.5	PASS
13.710~14.010	13.888	46.28	0	1.0	QP	21.2	0.2	30.2	37.48	80.5	PASS



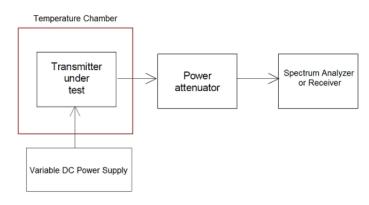
FCC ID: 2BL9C-G10

# 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

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
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Voltage	Temperature	Frequency Measured	Test data	Limit	Verdict
(VDC)	(°C)	(MHz)	(ppm)	(ppm)	verdict
	-20	13.561257	92.68	±100	PASS
5.00	+20	13.561197	88.28	±100	PASS
	+50	13.561106	81.54	±100	PASS
4.25	+20	13.561049	77.36	±100	PASS
5.75	+20	13.561199	88.41	±100	PASS

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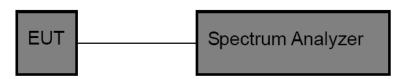
FCC ID: 2BL9C-G10

# 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≥3\*RBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

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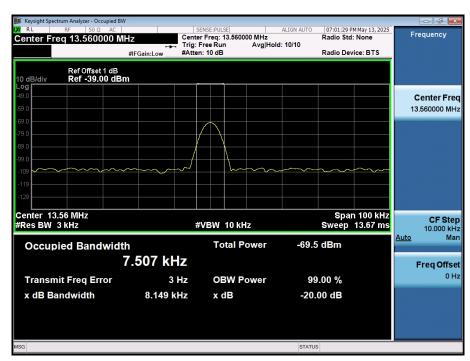


FCC ID: 2BL9C-G10

#### 6.4. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
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Freq.(MHz)	Bandwidth (kHz)	Results
13.56	8.149	PASS



Note: 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 3kHz to perform the occupied bandwidth test.

FCC ID: 2BL9C-G10

# 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. It complies with the standard requirement.

-torv I:



FCC ID: 2BL9C-G10

## **APPENDIX I -- TEST SETUP PHOTOGRAPH**

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

### 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	

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