FCC TEST REPORT

FCC ID: 2BLIX-DL08

Report No.	:	SSP25050395-1E
Applicant	:	Shenzhen Muming Innovation Technology Co., Ltd.
Product Name	:	Smart Lock
Model Name	:	DL-08
Test Standard	:	FCC Part 15.225
Date of Issue	:	2025-06-25

Shenzhen CCUT Quality Technology Co., Ltd.
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This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

Test Report Basic Information

Applicant.....:	Shenzhen Muming Innovation Technology Co., Ltd.
Address of Applicant.....:	2008, No. 51, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, China
Manufacturer.....:	Shenzhen Muming Innovation Technology Co., Ltd.
Address of Manufacturer.....:	2008, No. 51, Pingxin North Road, Shangmugu Community, Pinghu Street, Longgang District, Shenzhen, China
Product Name.....:	Smart Lock
Brand Name.....:	OKIBB
Main Model.....:	DL-08
Series Models.....:	See section 1.1 (Page 5)
Test Standard.....:	FCC Part 15 Subpart C ANSI C63.4-2014 ANSI C63.10-2013
Date of Test .....:	2025-06-05 to 2025-06-10
Test Result.....:	PASS
Tested By .....:	Tate Chen (Tate Chen)
Reviewed By.....:	Lorzix Luo (Lorzix Luo)
Authorized Signatory.....:	Lahm Peng (Lahm Peng)

Shenzhen CCUT Quality Technology Co., Ltd. APPROVED

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Revision History

Revision	Issue Date	Description	Revised By
V1.0	2025-06-25	Initial Release	Lahm Peng

1. General Information

1.1 Product Information

Product Name:	Smart Lock
Trade Name:	OKIBB
Main Model:	DL-08
Series Models:	DL88, DL68, DL18, DL58, DL28, DL98, DL86, DL81, DL82, DL83
Rated Voltage:	DC 6V by AA*4 or DC 5V by USB
Power Adapter:	-
Battery:	DC 6V by AA*4
Test Sample No:	SSP25050395-1
Hardware Version:	V1.0
Software Version:	V1.0
Note 1: The test data is gathered from a production sample, provided by the manufacturer. Note 2: The model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer.	

Wireless Specification	
Wireless Standard:	RFID
Operating Frequency:	13.56MHz
Max. Field Strength:	69.5dBuV/m
Modulation:	FSK
Antenna Gain:	0dBi
Type of Antenna:	Loop Antenna
Type of Device:	☐ Portable Device ☒ Mobile Device ☐ Modular Device

1.2 Test Setup Information

List of Test Modes		
Test Mode	Description	Remark
TM1	Transmitting	13.56MHz
TM2	-	-
TM3	-	-

List and Details of Auxiliary Cable			
Description	Length (cm)	Shielded/Unshielded	With/Without Ferrite
USB	100cm	Unshielded	Without Ferrite
-	-	-	-

List and Details of Auxiliary Equipment			
Description	Manufacturer	Model	Serial Number
adapter	XIAOMI	HW-110600C02	JL28L4P2D06114
-	-	-	-

1.3 Compliance Standards

Compliance Standards	
FCC Part 15 Subpart C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators
All measurements contained in this report were conducted with all above standards	
According to standards for test methodology	
FCC Part 15 Subpart C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators
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 40 GHz.
ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which result is lowering the emission, should be checked to ensure compliance has been maintained.	

1.4 Test Facilities

Laboratory Name:	**Shenzhen CCUT Quality Technology Co., Ltd.** 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China
CNAS Laboratory No.:	L18863
A2LA Certificate No.:	6983.01
FCC Registration No:	583813
FCC Designation No.:	CN1373
ISED Registration No.:	CN0164
All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.	

1.5 List of Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Conducted Emissions					
AMN	ROHDE&SCHWARZ	ENV216	101097	2024-08-07	2025-08-06
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2024-08-07	2025-08-06
Test Cable	N/A	Cable 5	N/A	2024-08-07	2025-08-06
EMI Test Software	FARA	EZ-EMC	EMEC-3A1+	N/A	N/A
Radiated Emissions					
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100154	2024-08-07	2025-08-06
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2024-08-07	2025-08-06
Amplifier	SCHWARZBECK	BBV 9743B	00251	2024-08-07	2025-08-06
Amplifier	HUABO	YXL0518-2.5-45	--	2024-08-07	2025-08-06
Attenuator	QUANJUDA	6dB	220731	2024-08-07	2025-08-06
Loop Antenna	DAZE	ZN30900C	21104	2024-08-03	2025-08-02
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2024-08-03	2025-08-02
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2024-08-03	2025-08-02
Test Cable	N/A	Cable 1	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 2	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 3	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 4	N/A	2024-08-07	2025-08-06
EMI Test Software	FARA	EZ-EMC	FA-03A2 RE+	N/A	N/A
Conducted RF Testing					
RF Test System	MWRFTest	MW100-RFCB	220418SQS-37	2024-08-07	2025-08-06
Spectrum Analyzer	KEYSIGHT	N9020A	ATO-90521	2024-08-07	2025-08-06
Signal Generator	Agilent	N5182A	MY47071192	2024-08-07	2025-08-06
Radio Tester	ROHDE&SCHWARZ	CMW500	2K50-126968	2024-08-07	2025-08-06
Temperature Chamber	ASTUOD	TT-5166	53269	2024-08-07	2025-08-06

1.6 Measurement Uncertainty

Test Item	Conditions	Uncertainty
Conducted Emissions	9kHz ~ 30MHz	±1.64 dB
Radiated Emissions	9kHz ~ 30MHz	±2.88 dB
	30MHz ~ 1GHz	±3.32 dB
	1GHz ~ 18GHz	±3.50 dB
	18GHz ~ 40GHz	±3.66 dB
Frequency Stability	9kHz ~ 26GHz	±0.16 ppm
Occupied Bandwidth	9kHz ~ 26GHz	±4.0 %
DC Voltage	DC 0~30V	±0.1 %
Temperature	-40~50℃	±0.3℃

2. Summary of Test Results

FCC Rule	Description of Test Item	Result
FCC Part 15.203	Antenna Requirement	Passed
FCC Part 15.207	Conducted Emissions	Passed
FCC Part 15.209, 15.225(a)	Radiated Emissions	Passed
FCC Part 15.225(b)(c)	Out of Band Emissions	Passed
FCC Part 15.225(e)	Frequency Stability	Passed
FCC Part 15.215(c)	Occupied Bandwidth	Passed
Passed: The EUT complies with the essential requirements in the standard Failed: The EUT does not comply with the essential requirements in the standard N/A: Not applicable		

3. Antenna Requirement

3.1 Standard and Limit

According to FCC Part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.2 Test Result

This product has an Loop antenna, fulfill the requirement of this section.

4. Conducted Emissions

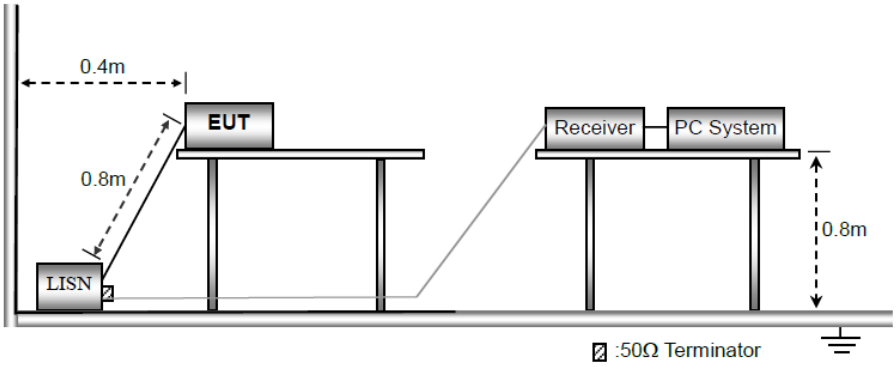
4.1 Standard and Limit

According to the rule FCC Part 15.207, Conducted emissions limit, the limit for a wireless device as below:

Frequency of Emission (MHz)	Conducted emissions (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz Note 2: The lower limit applies at the band edges		

4.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.2.



Test Setup Block Diagram

a) 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 is the setting of the receiver
Attenuation: 10dB
Start Frequency: 0.15MHz
Stop Frequency: 30MHz
IF Bandwidth: 9kHz

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.

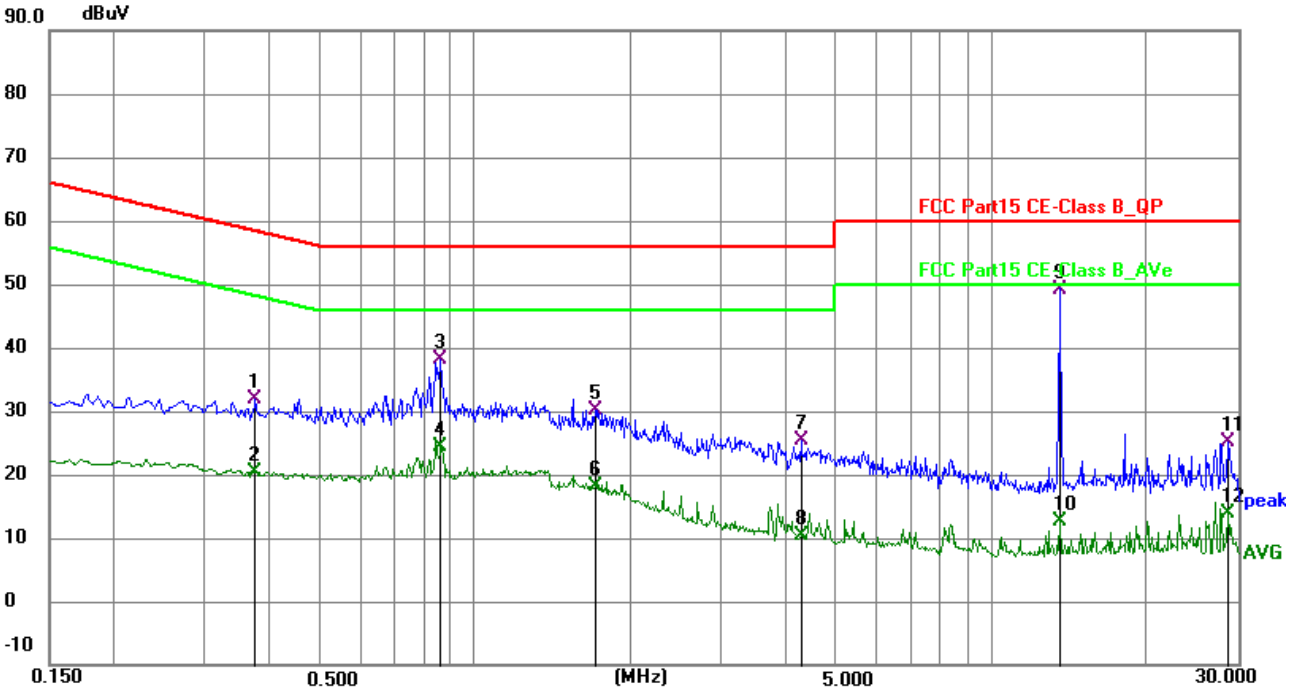
f) LISN is at least 80 cm from nearest part of EUT chassis.

g) For the actual test configuration, please refer to the related Item - photographs of the test setup.

4.3 Test Data and Results

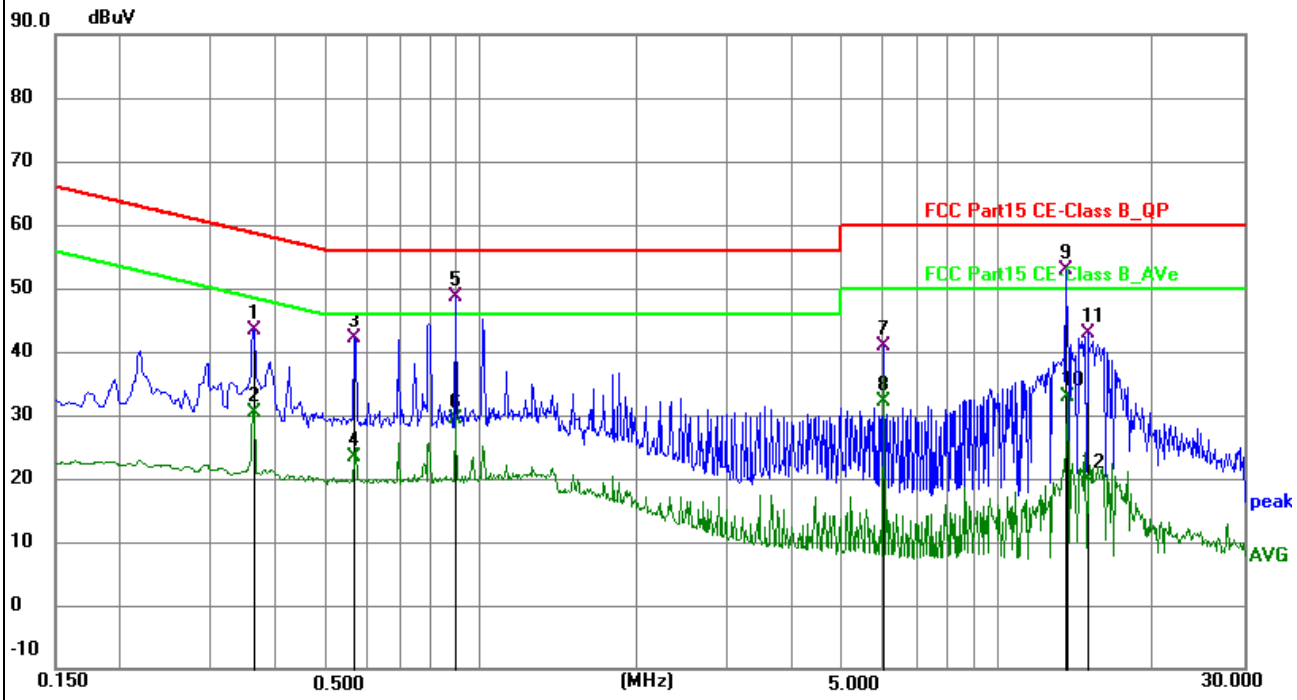
Based on all tested data, the EUT complied with the FCC Part 15.207 standard limit for a wireless device, and with the worst case as below:
Remark: Level = Reading + Factor, Margin = Level - Limit

Test Plots and Data of Conducted Emissions	
Tested Mode:	TM1
Test Voltage:	AC 120V/60Hz
Test Power Line:	Neutral
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.3750	22.39	9.39	31.78	58.39	-26.61	QP	P	
2	0.3750	10.99	9.39	20.38	48.39	-28.01	AVG	P	
3	0.8610	28.84	9.39	38.23	56.00	-17.77	QP	P	
4	0.8610	15.09	9.39	24.48	46.00	-21.52	AVG	P	
5	1.7115	20.74	9.45	30.19	56.00	-25.81	QP	P	
6	1.7115	8.68	9.45	18.13	46.00	-27.87	AVG	P	
7	4.2765	15.90	9.54	25.44	56.00	-30.56	QP	P	
8	4.2765	0.91	9.54	10.45	46.00	-35.55	AVG	P	
9 *	13.5690	39.72	9.53	49.25	60.00	-10.75	QP	P	
10	13.5690	3.18	9.53	12.71	50.00	-37.29	AVG	P	
11	28.7295	14.95	10.10	25.05	60.00	-34.95	QP	P	
12	28.7295	3.82	10.10	13.92	50.00	-36.08	AVG	P	

Test Plots and Data of Conducted Emissions	
Tested Mode:	TM1
Test Voltage:	AC 120V/60Hz
Test Power Line:	Live
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.3614	33.75	9.58	43.33	58.70	-15.37	QP	P	
2	0.3614	20.78	9.58	30.36	48.70	-18.34	AVG	P	
3	0.5685	32.58	9.57	42.15	56.00	-13.85	QP	P	
4	0.5685	13.86	9.57	23.43	46.00	-22.57	AVG	P	
5	0.8924	39.05	9.56	48.61	56.00	-7.39	QP	P	
6	0.8924	19.91	9.56	29.47	46.00	-16.53	AVG	P	
7	6.0270	31.08	9.77	40.85	60.00	-19.15	QP	P	
8	6.0270	22.47	9.77	32.24	50.00	-17.76	AVG	P	
9 *	13.5555	43.26	9.73	52.99	60.00	-7.01	QP	P	
10	13.6230	23.22	9.73	32.95	50.00	-17.05	AVG	P	
11	14.9190	33.26	9.72	42.98	60.00	-17.02	QP	P	
12	14.9190	10.19	9.72	19.91	50.00	-30.09	AVG	P	

5. Radiated Emissions

5.1 Standard and Limit

According to §15.225(a), The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15848 microvolts/meter at 30 meters.

According to §15.225(d) The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in §15.209.

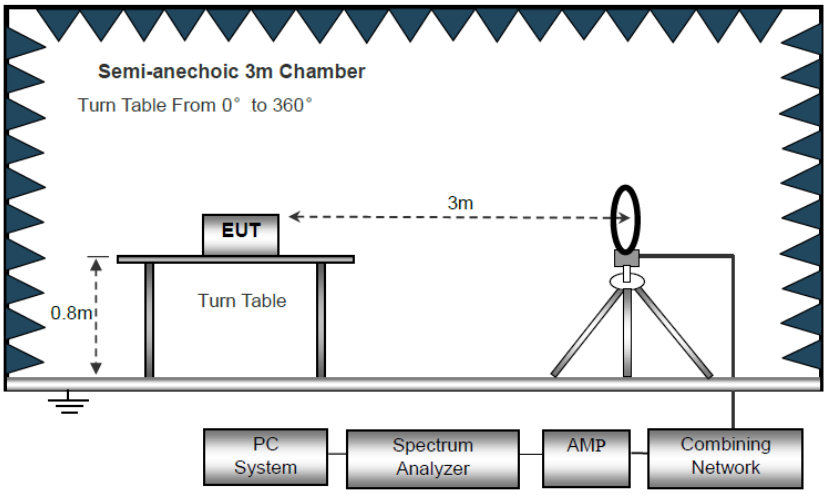
According to the rule FCC Part 15.209, Radiated emission limit for a wireless device as below:

Frequency of Emission (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
Note: The more stringent limit applies at transition frequencies.		

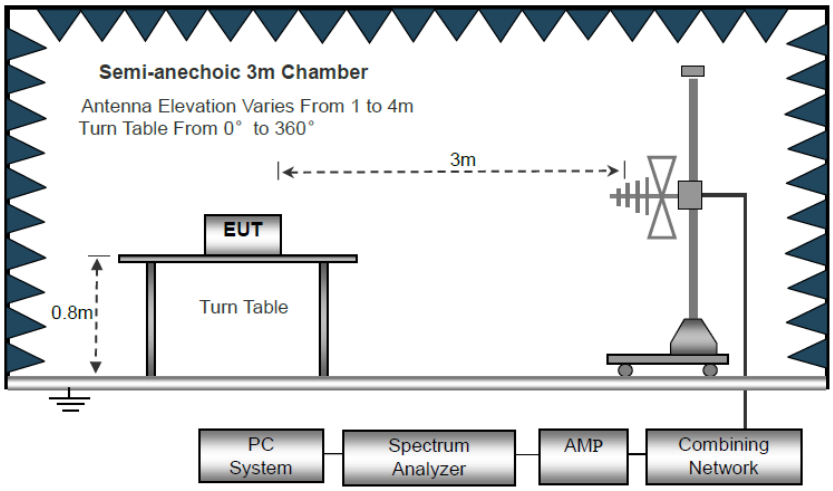
Note: Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

5.2 Test Procedure

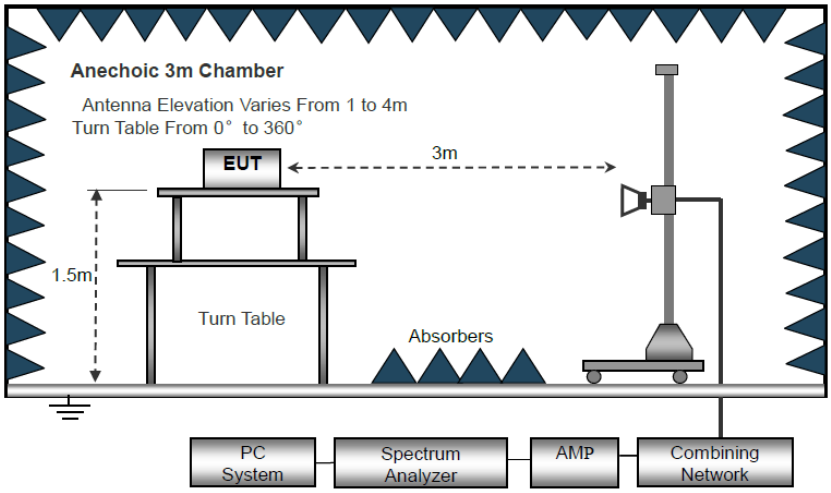
Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6.



Block Diagram of Radiated Emission Below 30MHz



Block Diagram of Radiated Emission From 30MHz to 1GHz



Block Diagram of Radiated Emission Above 1GHz

a) The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range below 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.

b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.

c) Use the following spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured
RBW = 1 MHz for f ≥ 1GHz, 100 kHz for f < 1 GHz, 10kHz for f < 30MHz
VBW ≥ RBW, Sweep = auto
Detector function = peak
Trace = max hold

d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.

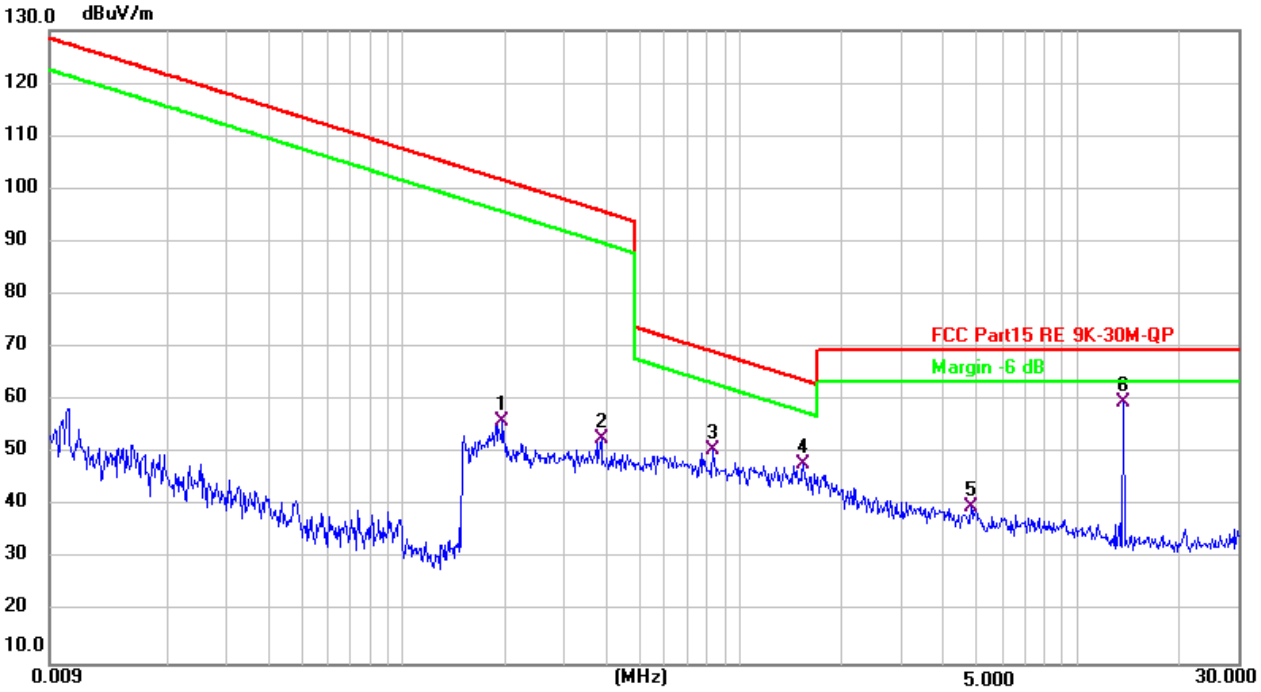
f) For the actual test configuration, please refer to the related item - EUT test photos.

5.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.225 standard limit for a wireless device, and with the worst case as below:

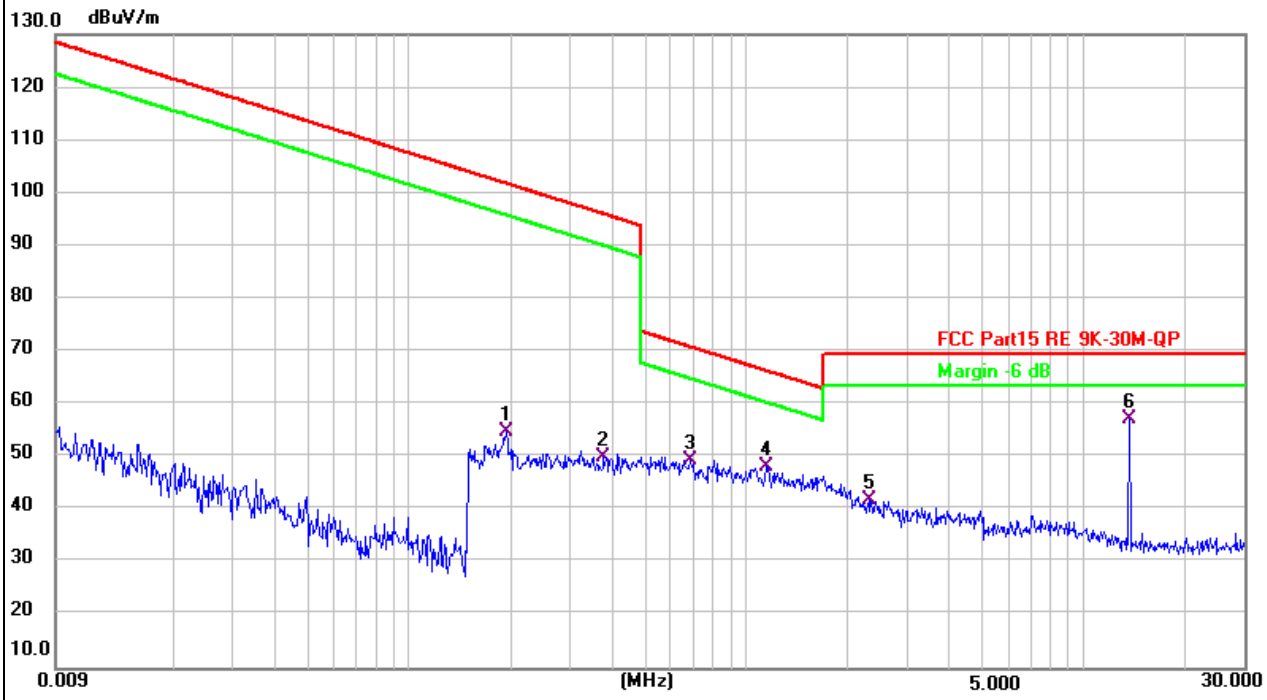
Remark: Level = Reading + Factor, Margin = Level - Limit

Test Plots and Data of Radiated Emissions	
Tested Mode:	TM1
Test Antenna Polarization:	Coplaner
Remark:	



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	0.1965	30.20	25.76	55.96	101.73	-45.77	QP	100	360	P	
2	0.3850	26.93	25.76	52.69	95.89	-43.20	QP	100	360	P	
3	0.8304	24.71	25.85	50.56	69.21	-18.65	QP	100	360	P	
4	1.5354	22.01	26.01	48.02	63.87	-15.85	QP	100	360	P	
5	4.7970	13.11	26.59	39.70	69.50	-29.80	QP	100	360	P	
6 *	13.6227	33.72	25.96	59.68	69.50	-9.82	QP	100	360	P	

Test Plots and Data of Radiated Emissions	
Tested Mode:	TM1
Test Antenna Polarization:	Coaxial
Remark:	



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	0.1932	29.00	25.75	54.75	101.88	-47.13	QP	100	12	P	
2	0.3769	24.39	25.77	50.16	96.08	-45.92	QP	100	49	P	
3	0.6824	23.77	25.71	49.48	70.92	-21.44	QP	100	145	P	
4	1.1471	22.37	25.94	48.31	66.41	-18.10	QP	100	275	P	
5	2.3212	15.71	26.15	41.86	69.50	-27.64	QP	100	70	P	
6 *	13.6227	31.41	25.96	57.37	69.50	-12.13	QP	100	125	P	

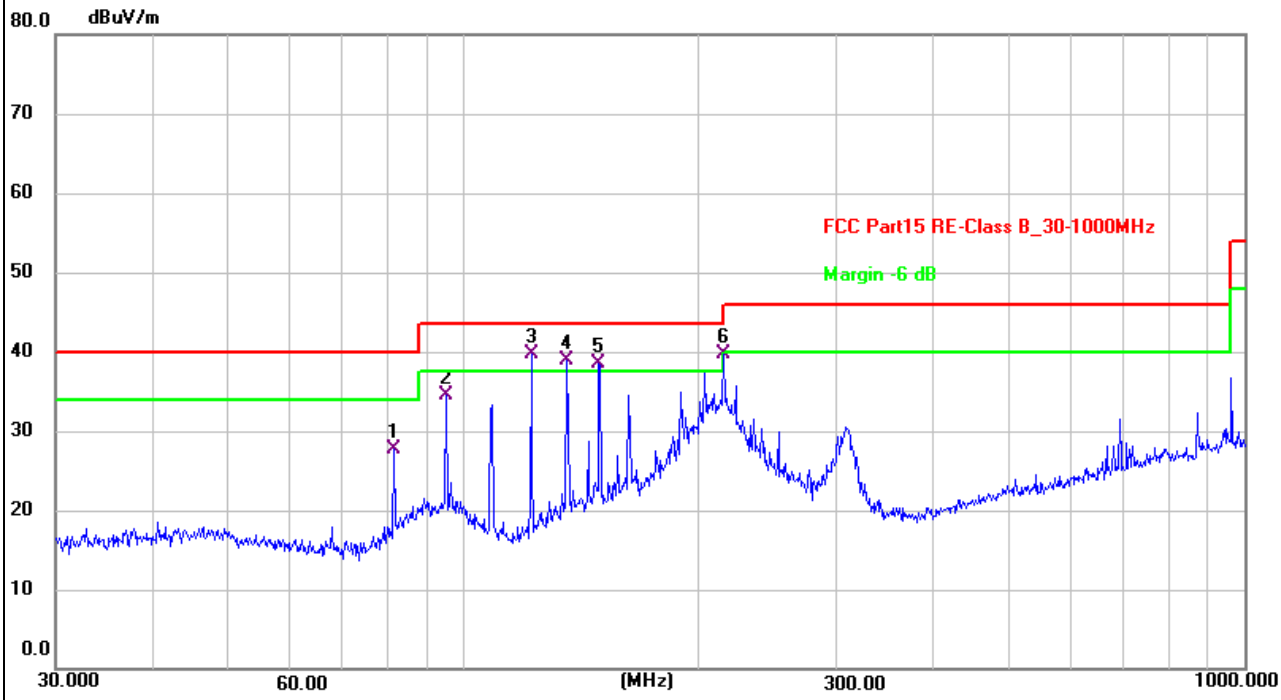
Note 1: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Note 2: Testing is carried out with frequency rang 9kHz to the tenth harmonics. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

Note 3: For 9kHz-30MHz, Distance extrapolation factor =40 log (specific distance/test distance)(dB);

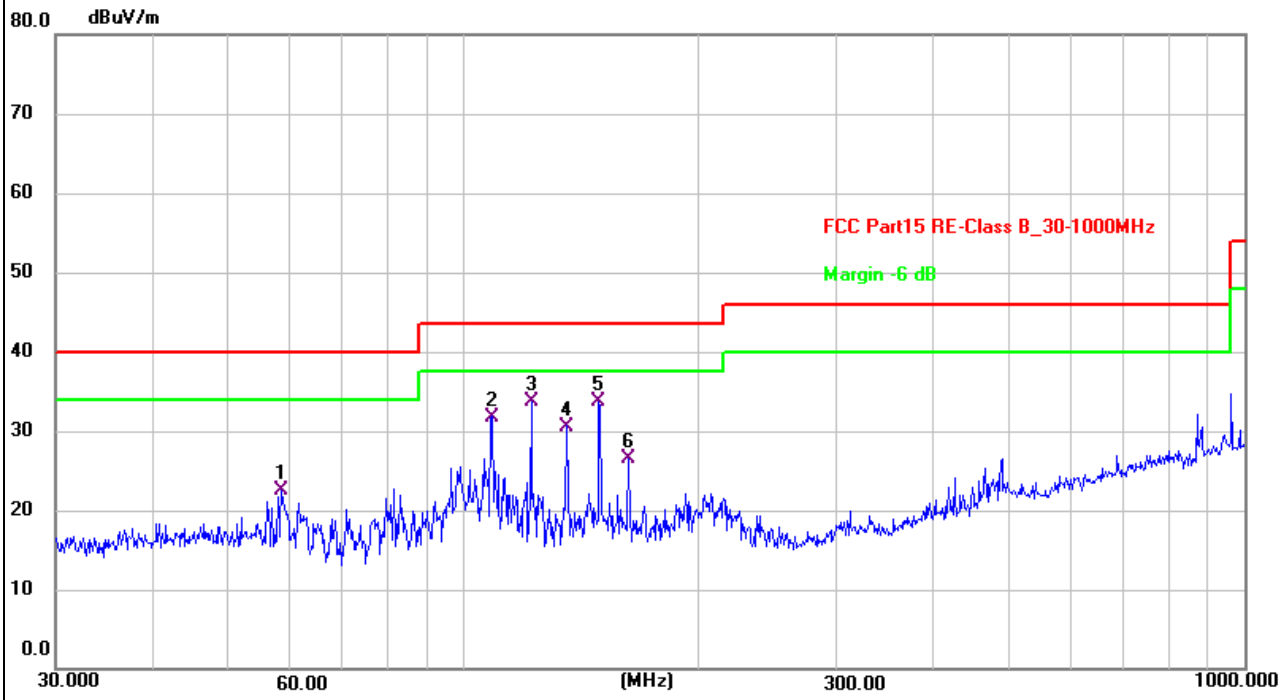
Limit line = specific limits (dBuV) + distance extrapolation factor.

Radiated Emission Test Data (30MHz to 1GHz)	
Tested Mode:	TM1
Test Antenna Polarization:	Horizontal
Remark:	



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	81.2117	40.59	-12.88	27.71	40.00	-12.29	QP	199	11	P	
2	95.0930	47.18	-12.62	34.56	43.50	-8.94	QP	199	11	P	
3 *	121.9755	49.21	-9.56	39.65	43.50	-3.85	QP	199	11	P	
4 !	135.5062	47.46	-8.49	38.97	43.50	-4.53	QP	199	11	P	
5 !	148.9625	46.29	-7.78	38.51	43.50	-4.99	QP	199	11	P	
6 !	215.2678	51.51	-11.87	39.64	43.50	-3.86	QP	100	0	P	

Radiated Emission Test Data (30MHz to 1GHz)	
Tested Mode:	TM1
Test Antenna Polarization:	Vertical
Remark:	



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	58.4074	32.26	-9.71	22.55	40.00	-17.45	QP	100	246	P	
2	108.6470	42.90	-11.10	31.80	43.50	-11.70	QP	100	235	P	
3 *	121.9755	43.30	-9.56	33.74	43.50	-9.76	QP	100	235	P	
4	135.5062	39.09	-8.49	30.60	43.50	-12.90	QP	100	132	P	
5	148.9625	41.40	-7.78	33.62	43.50	-9.88	QP	100	132	P	
6	162.6106	34.53	-8.10	26.43	43.50	-17.07	QP	100	132	P	

6. Band-edge Emissions

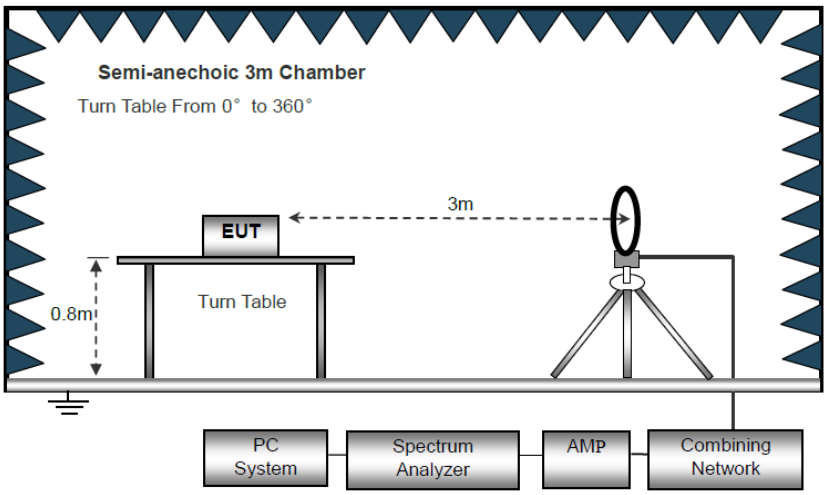
6.1 Standard and Limit

According to FCC 15.225 (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.

According to FCC 15.225 (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.

6.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.4 and section 6.10.



Test Setup Block Diagram

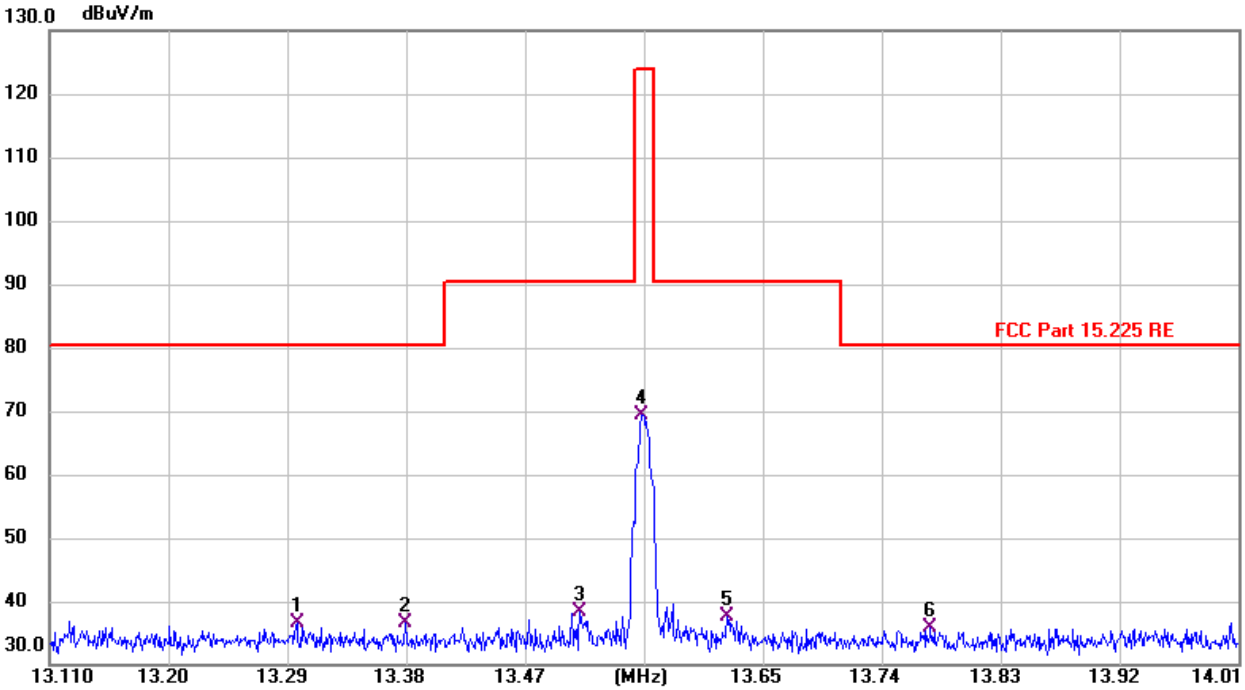
As the radiated emissions testing, set the RBW=10kHz VBW=30kHz, observed the outside band of 13.11MHz to 14.01MHz, than mark the higher-level emission for comparing with the FCC rules.

6.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.225 standard limit, and with the worst case as below:

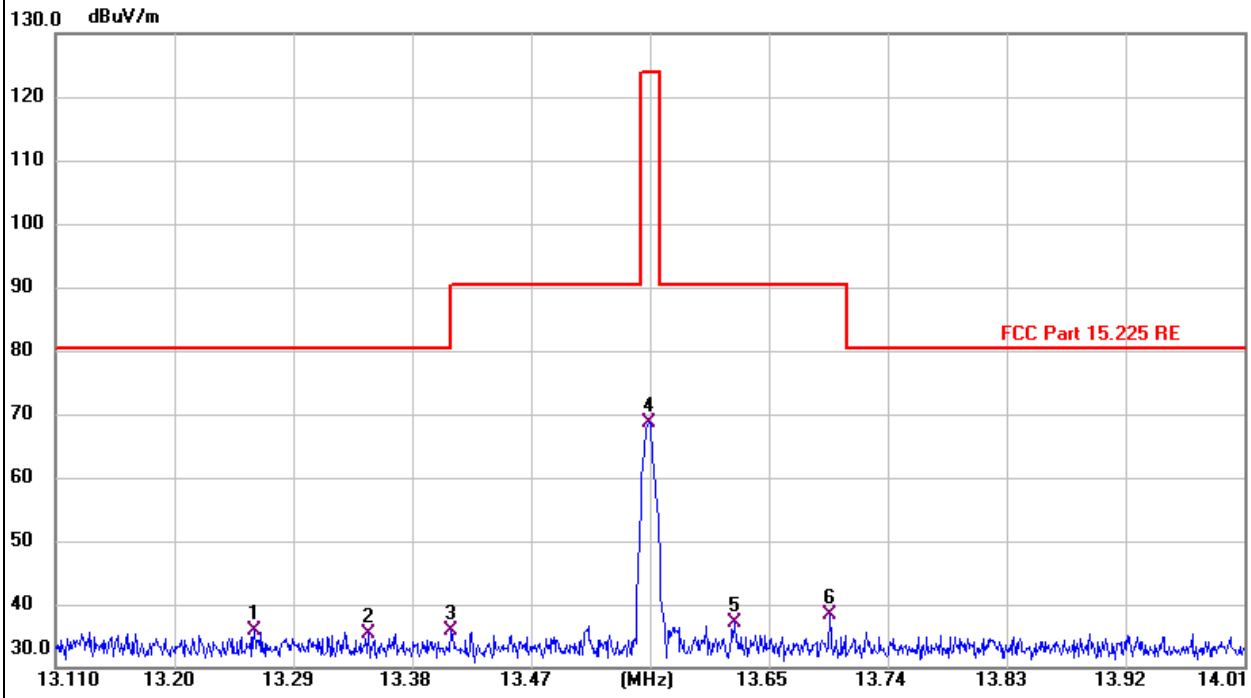
Remark: Level = Reading + Factor, Margin = Level - Limit

Test Plots and Data of Out of Band Emissions	
Tested Mode:	TM1
Test Antenna Polarization:	Coplaner
Remark:	



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 *	13.2972	10.65	26.00	36.65	80.50	-43.85	QP	100	20	P	
2	13.3790	10.55	25.99	36.54	80.50	-43.96	QP	100	22	P	
3	13.5114	12.36	25.97	38.33	90.47	-52.14	QP	100	185	P	
4	13.5580	43.54	25.96	69.50	124.00	-54.50	QP	100	147	P	
5	13.6230	11.75	25.96	37.71	90.47	-52.76	QP	100	11	P	
6	13.7767	10.07	25.92	35.99	80.50	-44.51	QP	100	258	P	

Test Plots and Data of Out of Band Emissions	
Tested Mode:	TM1
Test Antenna Polarization:	Coaxial
Remark:	



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 *	13.2603	9.89	26.00	35.89	80.50	-44.61	QP	100	253	P	
2	13.3467	9.31	26.00	35.31	80.50	-45.19	QP	100	20	P	
3	13.4085	9.79	25.98	35.77	80.50	-44.73	QP	100	11	P	
4	13.5591	42.79	25.96	68.75	124.00	-55.25	QP	100	70	P	
5	13.6240	11.16	25.96	37.12	90.47	-53.35	QP	100	154	P	
6	13.6958	12.47	25.95	38.42	90.47	-52.05	QP	100	207	P	

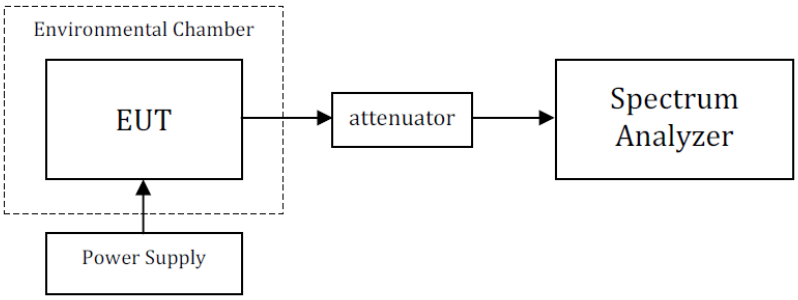
7. Frequency Stability

7.1 Standard and Limit

According to 15.225(e) The frequency tolerance of the carrier signal shall be maintained within ±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.

7.2 Test Procedure

Test is conducting under the description of ANSI C63.10-2013 section 6.8.



Test Setup Block Diagram

7.3 Test Data and Results

Reference Frequency: 13.56MHz, Limit: 100ppm			
Temperature (°C)	Power Supplied (VDC)	Frequency Error	
		Error (Hz)	Error (ppm)
50	6	145	10.69
40	6	137	10.10
30	6	129	9.51
20	6	108	7.96
10	6	97	7.15
0	6	87	6.42
-10	6	74	5.46
-20	6	55	4.06

Reference Frequency: 13.56MHz, Limit: 100ppm			
Temperature (°C)	Power Supplied (VDC)	Frequency Error	
		Error (Hz)	Error (ppm)
20	5.4	108	7.96
	6.6	105	7.74

8. Occupied Bandwidth

8.1 Standard and Limit

According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

8.2 Test Procedure

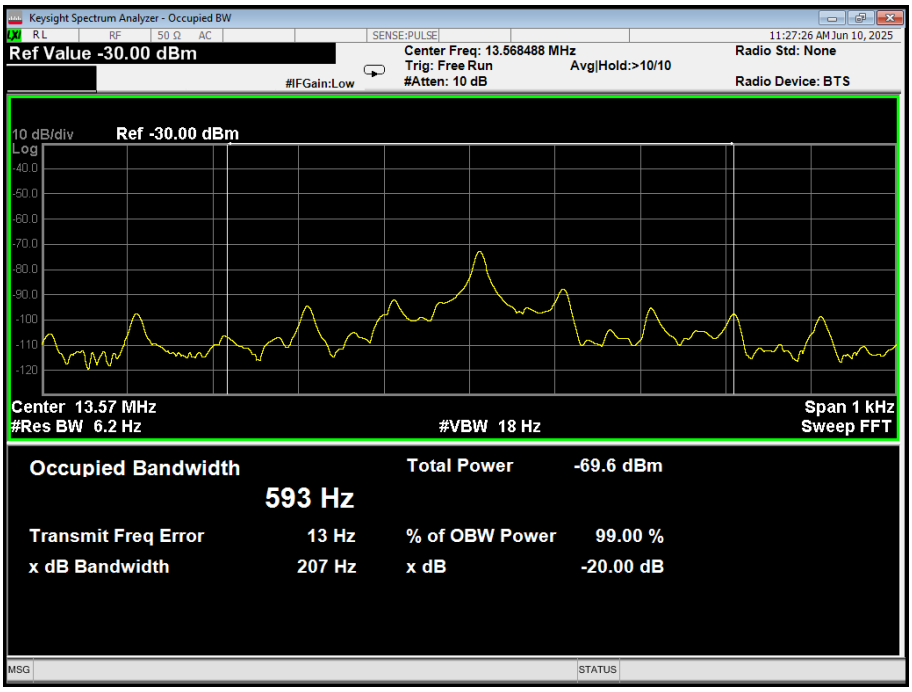
According to the ANSI 63.10-2013, section 6.9, the emission bandwidth test method as follows.
1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
2) Set the spectrum analyzer to any one measured frequency within its operating range.
3) Set RBW = 6.2Hz, VBW = 18Hz, Sweep = Auto.
4) Set a reference level on the measuring instrument equal to the highest peak value.
5) Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
All 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 and record the 20dB down and 99% bandwidth of the emission.

Test Setup Block Diagram

8.3 Test Data and Results

Test Frequency	20dB Bandwidth	99% Bandwidth
13.56MHz	207Hz	593Hz

Test Plots of Occupied Bandwidth



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