

# RF TEST REPORT

For

**Shenzhen Dwell Electronics Co.,Limited**

**Product Name: Card Reader**

**Test Model(s).: A02-C**

**Report Reference No.** : DACE241209060RL002

**FCC ID** : 2BM3K-A02-C

**Applicant's Name** : Shenzhen Dwell Electronics Co.,Limited

**Address** : Room1405, JingYuan DaSha, No 28, BuLong Road, JiHua Street, Longgang, Shenzhen 518112, Guangdong, China

**Testing Laboratory** : Shenzhen DACE Testing Technology Co., Ltd.

**Address** : 102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

**Test Specification Standard** : 47 CFR Part 15.209

**Date of Receipt** : December 9, 2024

**Date of Test** : December 9, 2024 to December 26, 2024

**Date of Issue** : December 26, 2024

**Result** : Pass

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## Apply for company information

Applicant's Name	:	Shenzhen Dwell Electronics Co.,Limited
Address	:	Room1405, JingYuan DaSha, No 28, BuLong Road, JiHua Street, Longgang, Shenzhen 518112, Guangdong, China
Product Name	:	Card Reader
Test Model(s)	:	A02-C
Series Model(s)	:	PT160, PT180, PT200, PT280, PT289LF, DWELL-BLE01, RPD-180, RPD-190, RPD-200, RPD-201, RPD-202, RPD-A03, RPD-A04, RPD-A06, DW90A
Test Specification Standard(s)	:	47 CFR Part 15.209

**NOTE1:**

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Compiled by:

Keren Huang

Keren Huang/ Test Engineer

December 26, 2024

Supervised by:

Stone Yin

Stone Yin/Project Engineer

December 26, 2024



## Revision History Of Report

Version	Description	REPORT No.	Issue Date
V1.0	Original	DACE241209060RL002	December 26, 2024

## CONTENTS

<b>1 TEST SUMMARY .....</b>	<b>5</b>
1.1 TEST STANDARDS .....	5
1.2 SUMMARY OF TEST RESULT .....	5
<b>2 GENERAL INFORMATION .....</b>	<b>6</b>
2.1 CLIENT INFORMATION .....	6
2.2 DESCRIPTION OF DEVICE (EUT)* .....	6
2.3 DESCRIPTION OF TEST MODES .....	6
2.4 DESCRIPTION OF SUPPORT UNITS .....	6
2.5 EQUIPMENTS USED DURING THE TEST .....	7
2.6 STATEMENT OF THE MEASUREMENT UNCERTAINTY .....	8
2.7 IDENTIFICATION OF TESTING LABORATORY .....	8
2.8 ANNOUNCEMENT .....	8
<b>3 EVALUATION RESULTS (EVALUATION) .....</b>	<b>9</b>
3.1 ANTENNA REQUIREMENT .....	9
3.1.1 Conclusion: .....	9
<b>4 RADIO SPECTRUM MATTER TEST RESULTS (RF) .....</b>	<b>10</b>
4.1 CONDUCTED EMISSION AT AC POWER LINE .....	10
4.1.1 E.U.T. Operation: .....	10
4.1.2 Test Setup Diagram: .....	10
4.1.3 Test Data: .....	11
4.2 20dB OCCUPIED BANDWIDTH .....	13
4.2.1 E.U.T. Operation: .....	13
4.2.2 Test Setup Diagram: .....	14
4.2.3 Test Data: .....	14
4.3 EMISSIONS IN FREQUENCY BANDS (BELOW 30MHz) .....	15
4.3.1 E.U.T. Operation: .....	15
4.3.2 Test Setup Diagram: .....	15
4.3.3 Test Data: .....	16
4.4 EMISSIONS IN FREQUENCY BANDS (30MHz - 1GHz) .....	17
4.4.1 E.U.T. Operation: .....	17
4.4.2 Test Setup Diagram: .....	18
4.4.3 Test Data: .....	18
<b>5 TEST SETUP PHOTOS .....</b>	<b>20</b>
<b>6 PHOTOS OF THE EUT .....</b>	<b>21</b>

## 1 TEST SUMMARY

### 1.1 Test Standards

The tests were performed according to following standards:

**47 CFR Part 15.209:** Radiated emission limits; general requirements

### 1.2 Summary of Test Result

Item	Standard	Method	Requirement	Result
Antenna requirement	47 CFR Part 15.209	/	47 CFR Part 15.203	Pass
Conducted Emission at AC power line	47 CFR Part 15.209	ANSI C63.10-2013 section 6.2	47 CFR Part 15.207(a)	Pass
20dB Occupied Bandwidth	47 CFR Part 15.209	ANSI C63.10-2013, section 6.9.2	47 CFR Part 15.215(c)	Pass
Emissions in frequency bands (below 30MHz)	47 CFR Part 15.209	ANSI C63.10-2013 section 6.4	47 CFR Part 15.209	Pass
Emissions in frequency bands (30MHz - 1GHz)	47 CFR Part 15.209	ANSI C63.10-2013 section 6.5	47 CFR Part 15.209	Pass

Note: 1.N/A -this device(EUT) is not applicable to this testing item

2. RF-conducted test results including cable loss.

## 2 GENERAL INFORMATION

### 2.1 Client Information

**Applicant's Name** : Shenzhen Dwell Electronics Co.,Limited  
**Address** : Room1405, JingYuan DaSha, No 28, BuLong Road, JiHua Street, Longgang, Shenzhen 518112, Guangdong, China

**Manufacturer** : Shenzhen Dwell Electronics Co.,Limited  
**Address** : Room1405, JingYuan DaSha, No 28, BuLong Road, JiHua Street, Longgang, Shenzhen 518112, Guangdong, China

### 2.2 Description of Device (EUT)\*

Product Name:	Card Reader
Model/Type reference:	A02-C
Series Model:	PT160, PT180, PT200, PT280, PT289LF, DWELL-BLE01, RPD-180, RPD-190, RPD-200, RPD-201, RPD-202, RPD-A03, RPD-A04, RPD-A06, DW90A
Model Difference:	There are many models of the product, and the differences between the models are due to the different appearance colors and the different model requirements of customers in different markets. Therefore, there will be more models, but these differences will not affect the RF and EMC performance of the product. Therefore, the testing model selected is A02-C.
Trade Mark:	DWECCRF
Product Description:	Card Reader
Power Supply:	DC7.4V from battery/charging by DC5.0V 1A from USB port
Operation Frequency:	134.2KHz
Number of Channels:	1
Modulation Type:	ASK
Antenna Type:	Loop Antenna
Hardware Version:	V3.2
Software Version:	V1.0

### 2.3 Description of Test Modes

No	Title	Description
TM1	TX mode	Keep the EUT works in continuously transmitting mode with ASK modulation.

### 2.4 Description of Support Units

Title	Manufacturer	Model No.	Serial No.
AC-DC adapter	HUAWEI	P0005	Provide by lab
USB CABLE	/	/	Provide by client

## 2.5 Equipments Used During The Test

Conducted Emission at AC power line					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Pulse Limiter	SCHWARZ BECK	VTSD 9561-F Pulse limiter 10dB Attenuation	561-G071	2024-12-06	2025-12-05
50ΩCoaxial Switch	Anritsu	MP59B	M20531	/	/
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	ID:1164.6607K0 3-102109-MH	2024-06-12	2025-06-11
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2023-12-12	2025-12-11
L.I.S.N	SCHWARZ BECK	NSLK 8126	05055	2024-06-14	2025-06-13
Pulse Limiter	CYBERTEK	EM5010A	/	2024-09-27	2025-09-26
EMI test software	EZ -EMC	EZ	V1.1.42	/	/

20dB Occupied Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Test Software	Tachoy Information	RTS-01	V1.0.0	/	/
RF Sensor Unit	Tachoy Information	TR1029-2	000001	/	/
Vector Signal Generator	Keysight	N5181A	MY50143455	2024-12-06	2025-12-05
Signal Generator	Keysight	N5182A	MY48180415	2024-12-06	2025-12-05
Spectrum Analyzer	Keysight	N9020A	MY53420323	2024-12-06	2025-12-05

Emissions in frequency bands (below 30MHz) Emissions in frequency bands (30MHz - 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test software	Farad	EZ -EMC	V1.1.42	/	/
Positioning Controller	MF	MF-7802	/	/	/
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2022-04-05	2025-04-04
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2023-04-05	2025-04-04
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2024-06-14	2026-06-13
Cable(LF)#2	Schwarzbeck	/	/	2024-02-19	2025-02-18
Cable(LF)#1	Schwarzbeck	/	/	2024-02-19	2025-02-18
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2024-03-20	2025-03-19
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	/	2024-03-20	2025-03-19
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2024-06-12	2025-06-11
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2024-06-12	2025-06-11
Spectrum Analyzer	R&S	FSP30	1321.3008K40-101729-jR	2024-06-12	2025-06-11
Test Receiver	R&S	ESCI 3	1166.5950K03-101431-Jq	2024-06-13	2025-06-12
Horn Antenna	Sunol Sciences	DRH-118	A091114	2023-05-13	2025-05-12
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2024-09-28	2026-09-27

## 2.6 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Disturbance (0.15~30MHz)	±3.41dB
Occupied Bandwidth	±3.63%
Radiated Emission (Below 1GHz)	±5.79dB

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

## 2.7 Identification of Testing Laboratory

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.
Address:	102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252

### Identification of the Responsible Testing Location

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.
Address:	102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252
FCC Registration Number:	0032847402
Designation Number:	CN1342
Test Firm Registration Number:	778666
A2LA Certificate Number:	6270.01

## 2.8 Announcement

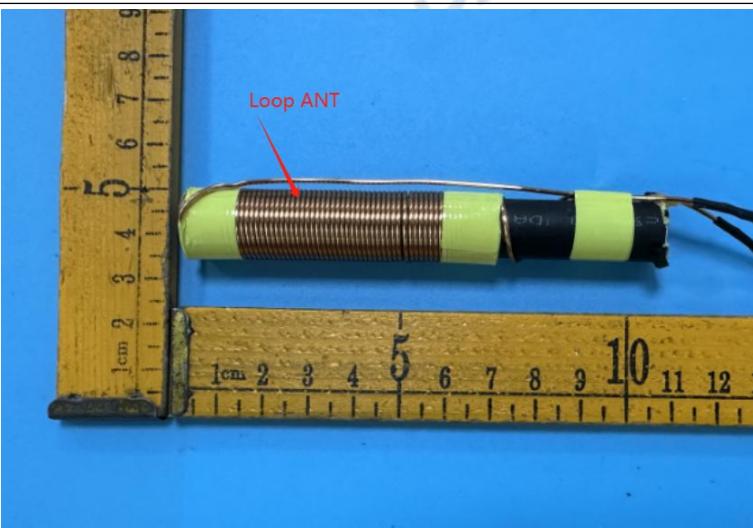
- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by DACE 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) We hereby declare that the laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant (information with "\*" provided by applicant). the laboratory is not responsible for the accuracy of the information provided by the client. When the information provided by the customer may affect the effectiveness of the results, the responsibility lies with the customer, and the laboratory does not assume any responsibility.

### 3 Evaluation Results (Evaluation)

#### 3.1 Antenna requirement

Test Requirement:	Refer to 47 CFR 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.
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##### 3.1.1 Conclusion:



## 4 Radio Spectrum Matter Test Results (RF)

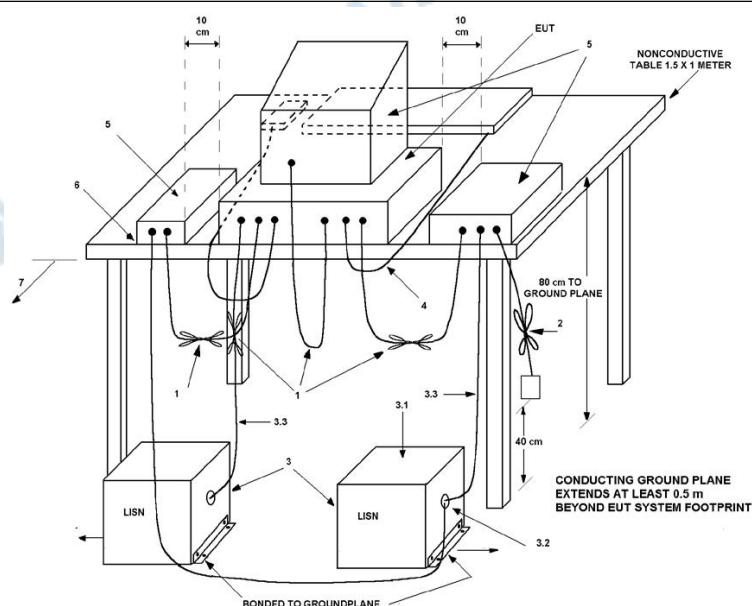
### 4.1 Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 ohms line impedance stabilization network (LISN).																	
Test Limit:	<table border="1"> <thead> <tr> <th>Frequency of emission (MHz)</th> <th colspan="2">Conducted limit (dB<math>\mu</math>V)</th> </tr> <tr> <th></th> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>			Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)			Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)																	
	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 Method:	ANSI C63.10-2013 section 6.2																	
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices																	

#### 4.1.1 E.U.T. Operation:

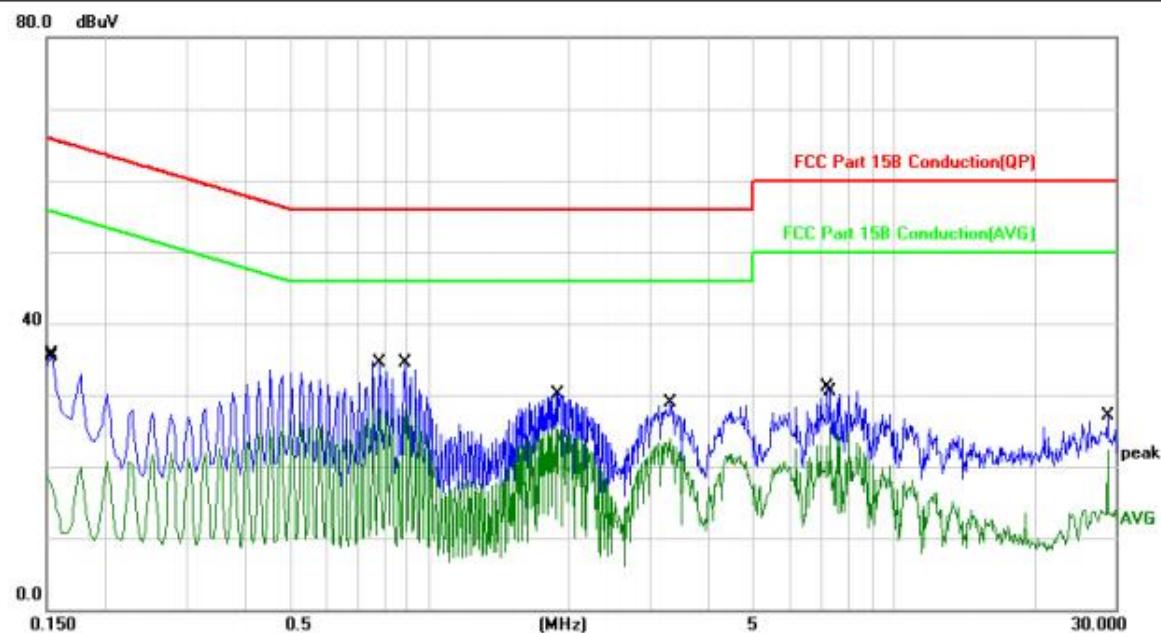
Operating Environment:			
Temperature:	23.3 °C	Humidity:	48 %
Pretest mode:	TM1		
Final test mode:	TM1		

#### 4.1.2 Test Setup Diagram:



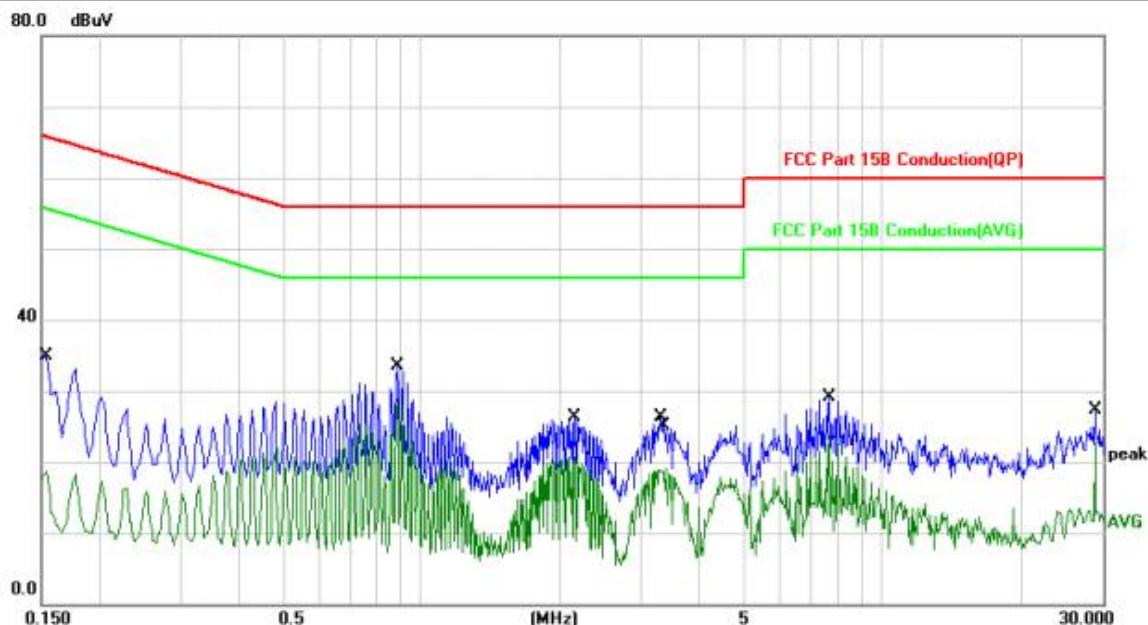
**4.1.3 Test Data:**

TM1 / Line: Line



No.	Mk.	Freq.	Reading	Correct Factor	Measure- ment	Limit	Over	
			Level				dB	Detector
1		0.1500	8.59	10.13	18.72	55.99	-37.27	AVG
2		0.1539	25.48	10.13	35.61	65.78	-30.17	QP
3 *		0.7820	17.92	10.09	28.01	46.00	-17.99	AVG
4		0.8860	24.37	10.10	34.47	56.00	-21.53	QP
5		1.8700	15.54	10.01	25.55	46.00	-20.45	AVG
6		1.8940	20.20	10.00	30.20	56.00	-25.80	QP
7		3.3100	18.86	10.09	28.95	56.00	-27.05	QP
8		3.3100	13.80	10.09	23.89	46.00	-22.11	AVG
9		7.1980	20.88	10.22	31.10	60.00	-28.90	QP
10		7.3140	15.29	10.23	25.52	50.00	-24.48	AVG
11		28.7980	16.09	11.01	27.10	60.00	-32.90	QP
12		28.7980	11.31	11.01	22.32	50.00	-27.68	AVG

TM1 / Line: Neutral



No.	Mk.	Freq.	Reading	Correct Factor	Measure- ment	Limit	Over	Comment
			Level					
		MHz	dBuV	dB	dBuV	dB	Detector	
1		0.1539	24.68	10.13	34.81	65.78	-30.97	QP
2		0.1539	8.63	10.13	18.76	55.78	-37.02	AVG
3		0.8860	23.43	10.10	33.53	56.00	-22.47	QP
4 *		0.8860	18.82	10.10	28.92	46.00	-17.08	AVG
5		2.1500	16.32	10.01	26.33	56.00	-29.67	QP
6		2.1500	10.69	10.01	20.70	46.00	-25.30	AVG
7		3.3100	16.25	10.09	26.34	56.00	-29.66	QP
8		3.3860	8.95	10.10	19.05	46.00	-26.95	AVG
9		7.6580	18.82	10.24	29.06	60.00	-30.94	QP
10		7.6580	13.42	10.24	23.66	50.00	-26.34	AVG
11		28.8020	16.33	11.01	27.34	60.00	-32.66	QP
12		28.8020	11.60	11.01	22.61	50.00	-27.39	AVG

## 4.2 20dB Occupied Bandwidth

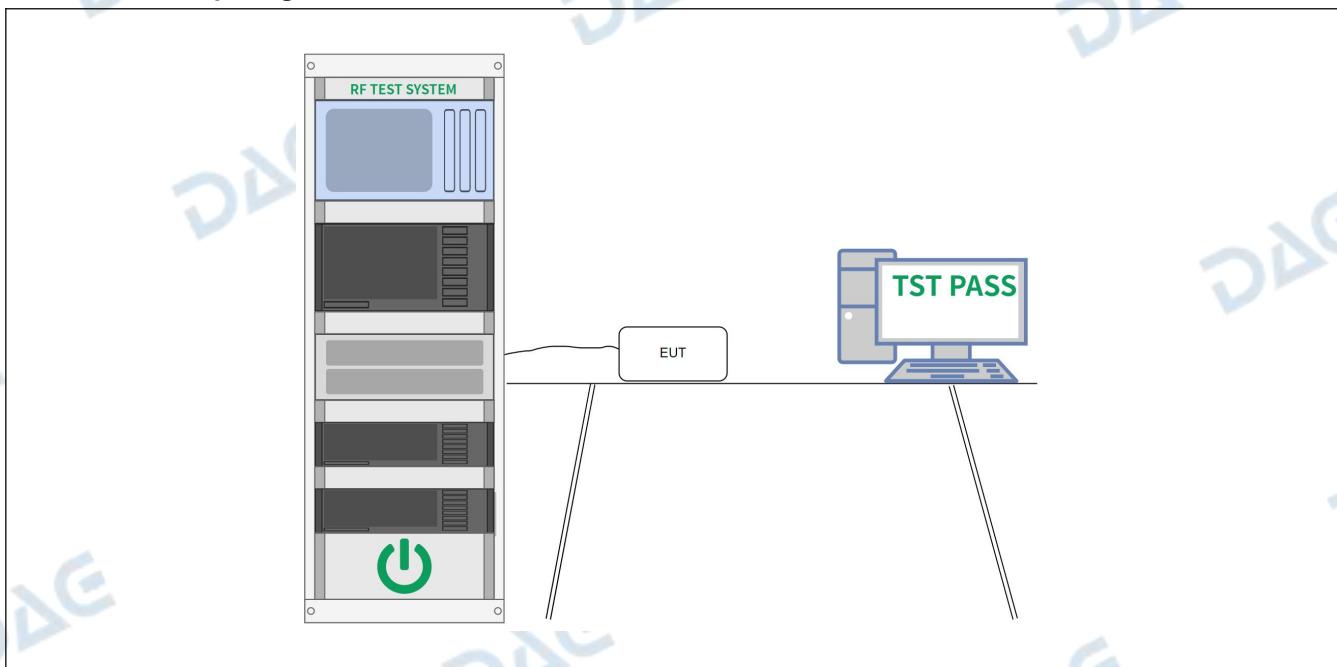
Test Requirement:	47 CFR Part 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of 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.
Test Method:	ANSI C63.10-2013, section 6.9.2
Procedure:	<p>a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.</p> <p>b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.</p> <p>c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than <math>[10 \log (\text{OBW}/\text{RBW})]</math> below the reference level. Specific guidance is given in 4.1.5.2.</p> <p>d) Steps a) through c) might require iteration to adjust within the specified tolerances.</p> <p>e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.</p> <p>f) Set detection mode to peak and trace mode to max hold.</p> <p>g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).</p> <p>h) Determine the “-xx dB down amplitude” using <math>[(\text{reference value}) - \text{xx}]</math>. Alternatively, this calculation may be made by using the marker-delta function of the instrument.</p> <p>i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).</p> <p>j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.</p> <p>k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).</p>

### 4.2.1 E.U.T. Operation:

Operating Environment:				
Temperature:	23.3 °C	Humidity:	48 %	Atmospheric Pressure: 102 kPa
Pretest mode:	TM1			

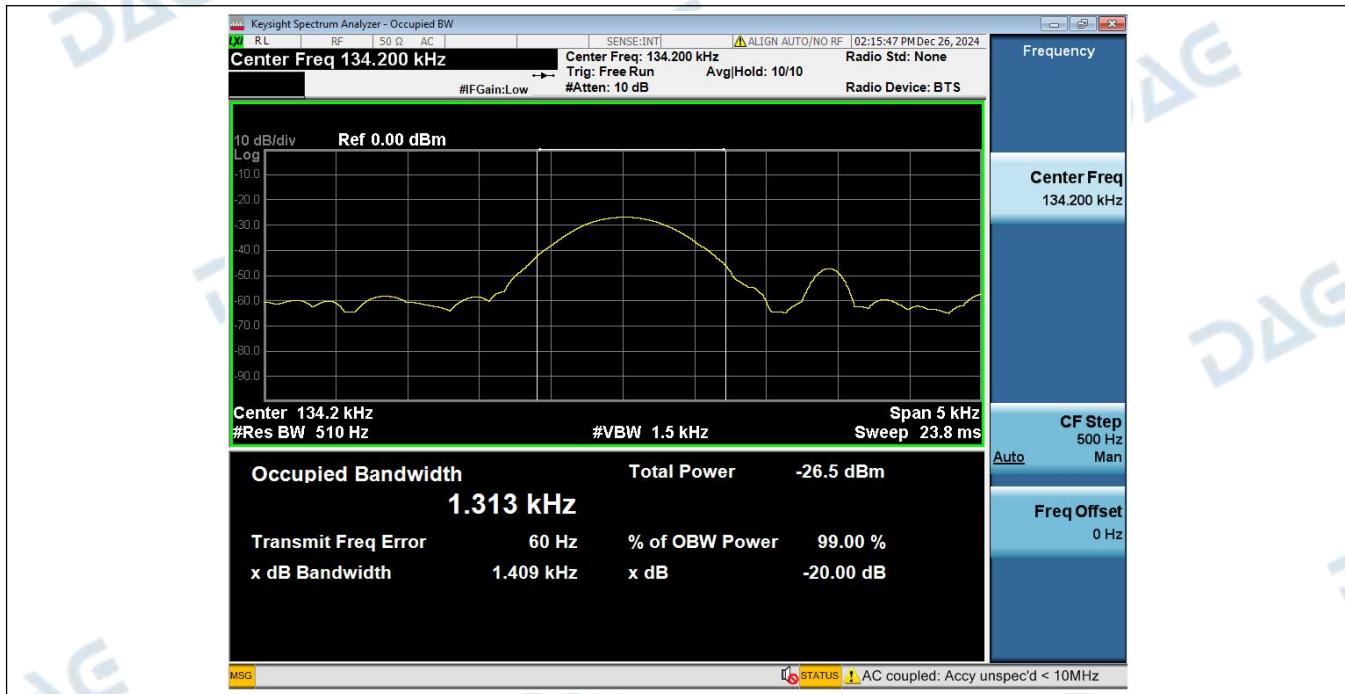
Final test mode:	TM1
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#### 4.2.2 Test Setup Diagram:



#### 4.2.3 Test Data:

Condition	Antenna	Modulation	Frequency (KHz)	20 OBW(KHz)
NVNT	ANT1	ASK	134.2	1.409



### 4.3 Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR Part 15.209		
Test Limit:	Frequency (MHz)	Field strength (microvolts/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

\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

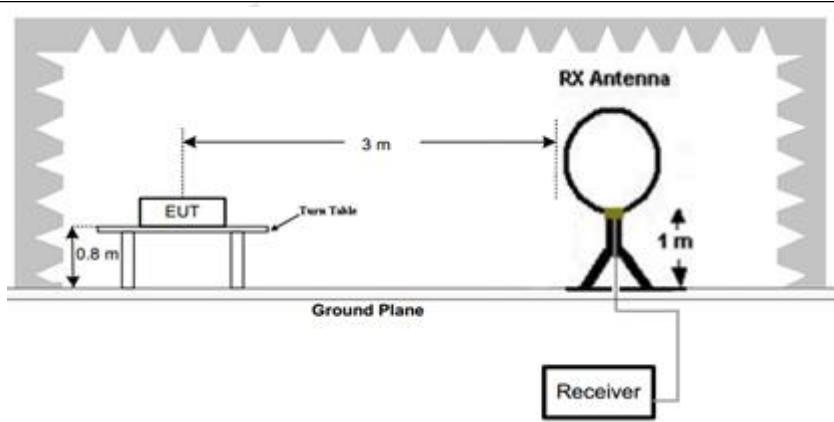
In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

Test Method:	ANSI C63.10-2013 section 6.4
Procedure:	ANSI C63.10-2013 section 6.4

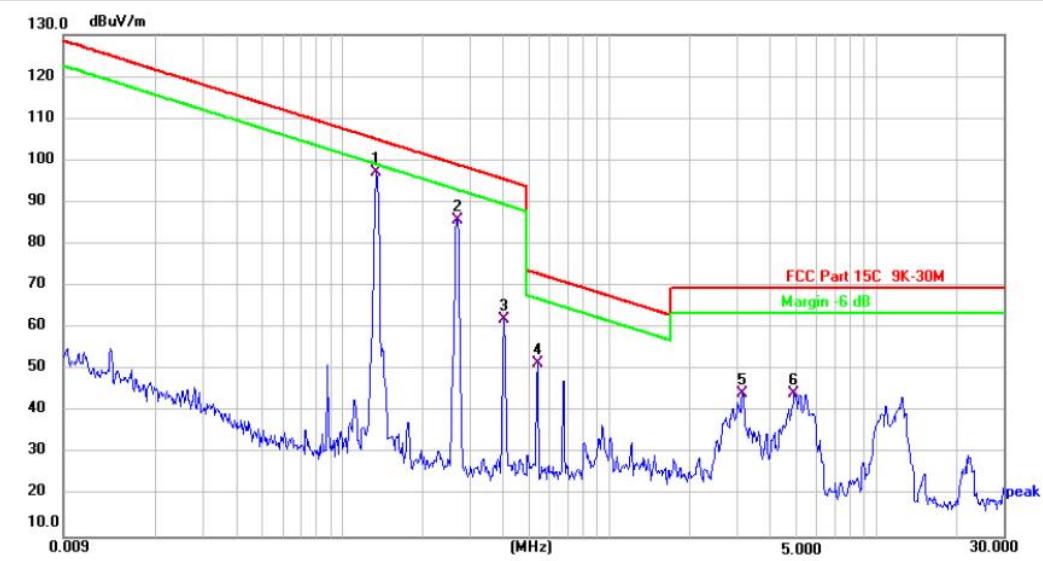
#### 4.3.1 E.U.T. Operation:

Operating Environment:				
Temperature:	23.3 °C	Humidity:	48 %	Atmospheric Pressure:
Pretest mode:	TM1			
Final test mode:	TM1			

#### 4.3.2 Test Setup Diagram:



#### 4.3.3 Test Data:



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 *	0.1340	77.86	19.36	97.22	105.06	-7.84	QP			P	
2	0.2693	65.29	20.33	85.62	99.00	-13.38	QP			P	
3	0.4040	41.27	20.77	62.04	95.48	-33.44	QP			P	
4	0.5367	30.57	20.88	51.45	73.01	-21.56	QP			P	
5	3.1460	23.33	21.16	44.49	69.54	-25.05	QP			P	
6	4.9150	23.25	21.03	44.28	69.54	-25.26	QP			P	

#### 4.4 Emissions in frequency bands (30MHz - 1GHz)

Test Requirement:	47 CFR Part 15.209		
Test Limit:	Frequency (MHz)	Field strength (microvolts/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

\*\* Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.

In the emission table above, the tighter limit applies at the band edges.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

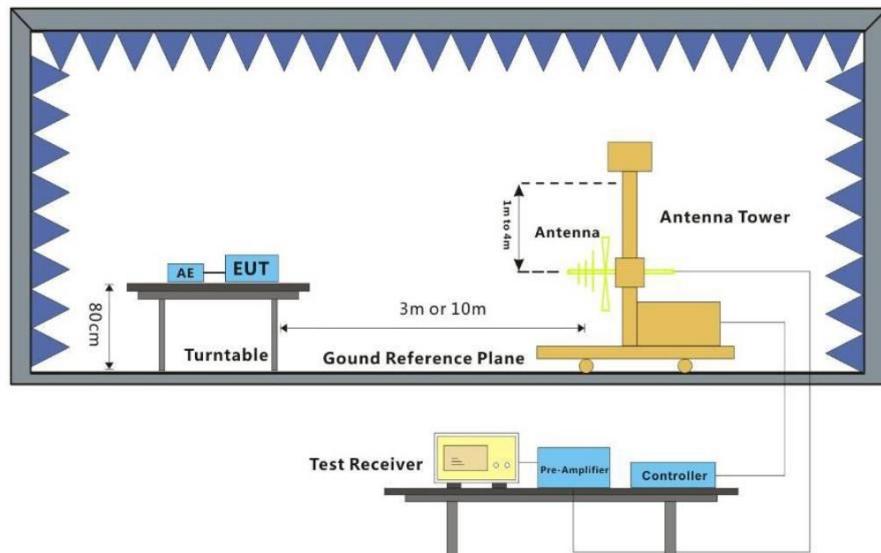
As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.

| Test Method: | ANSI C63.10-2013 section 6.5 | | |
| Procedure: | ANSI C63.10-2013 section 6.5 | | |

##### 4.4.1 E.U.T. Operation:

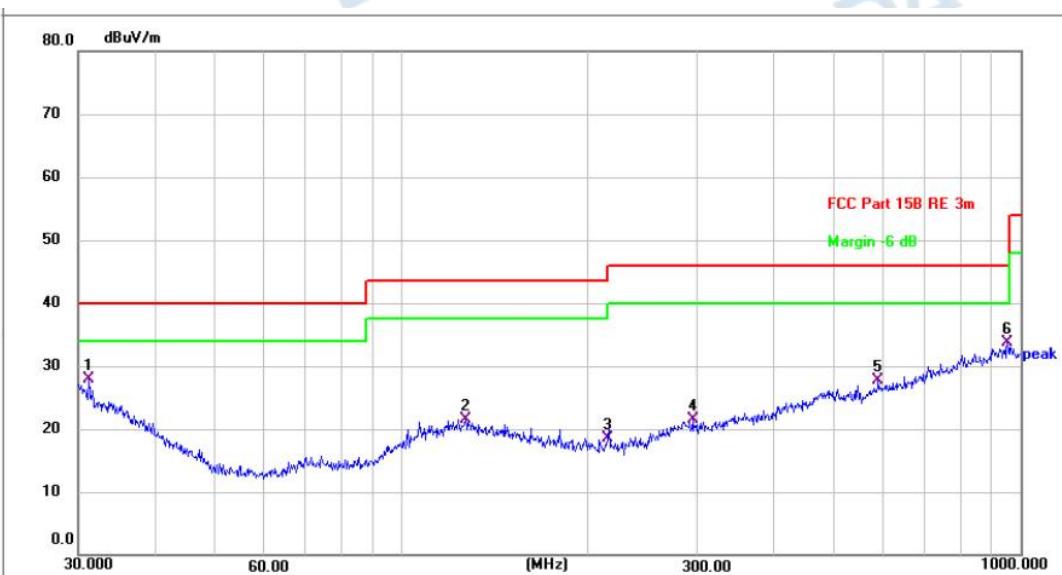
Operating Environment:				
Temperature:	23.3 °C	Humidity:	48 %	Atmospheric Pressure: 102 kPa
Pretest mode:	TM1			
Final test mode:	TM1			

#### 4.4.2 Test Setup Diagram:



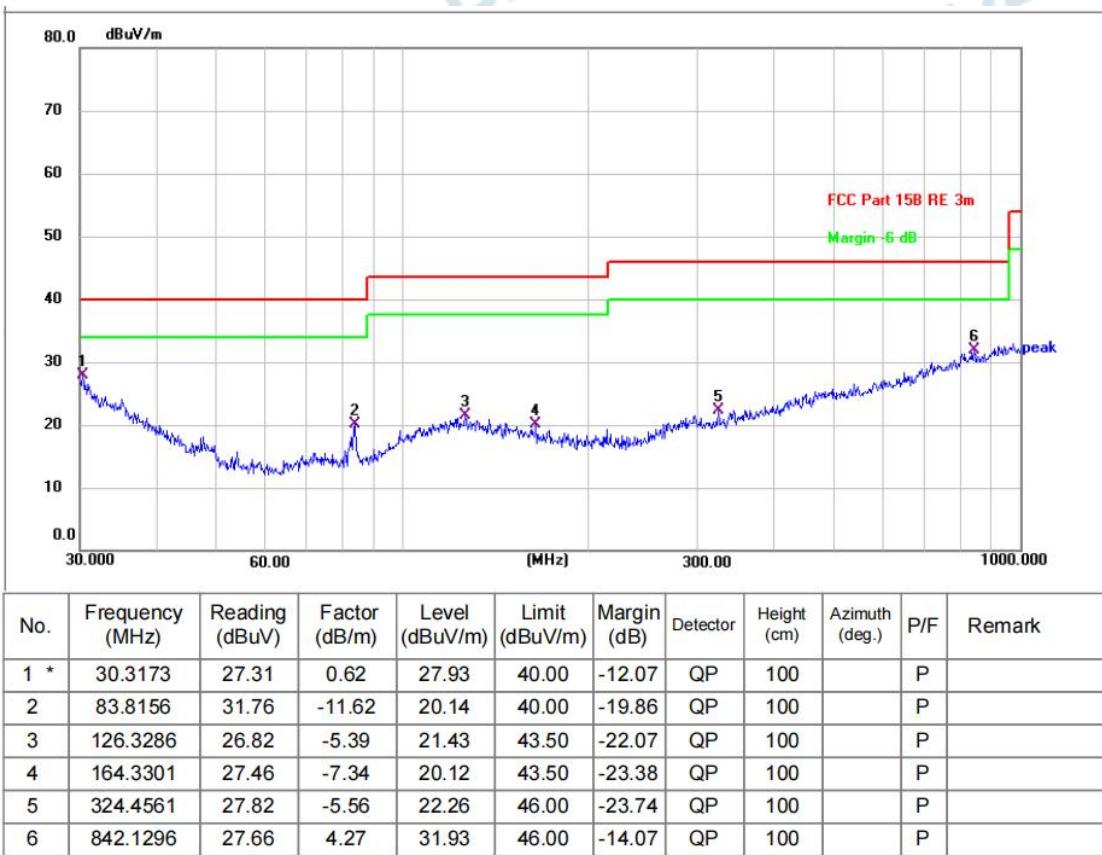
#### 4.4.3 Test Data:

TM1 / Polarization: Horizontal



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 *	31.1798	28.11	-0.14	27.97	40.00	-12.03	QP	100		P	
2	126.7723	27.03	-5.51	21.52	43.50	-21.98	QP	100		P	
3	215.2678	26.98	-8.42	18.56	43.50	-24.94	QP	100		P	
4	295.1469	27.21	-5.71	21.50	46.00	-24.50	QP	100		P	
5	588.9051	27.60	0.14	27.74	46.00	-18.26	QP	100		P	
6	952.0937	27.84	5.80	33.64	46.00	-12.36	QP	100		P	

## TM1 / Polarization: Vertical



Remark: Margin=Level - Limit, Level=Test receiver reading + correction factor

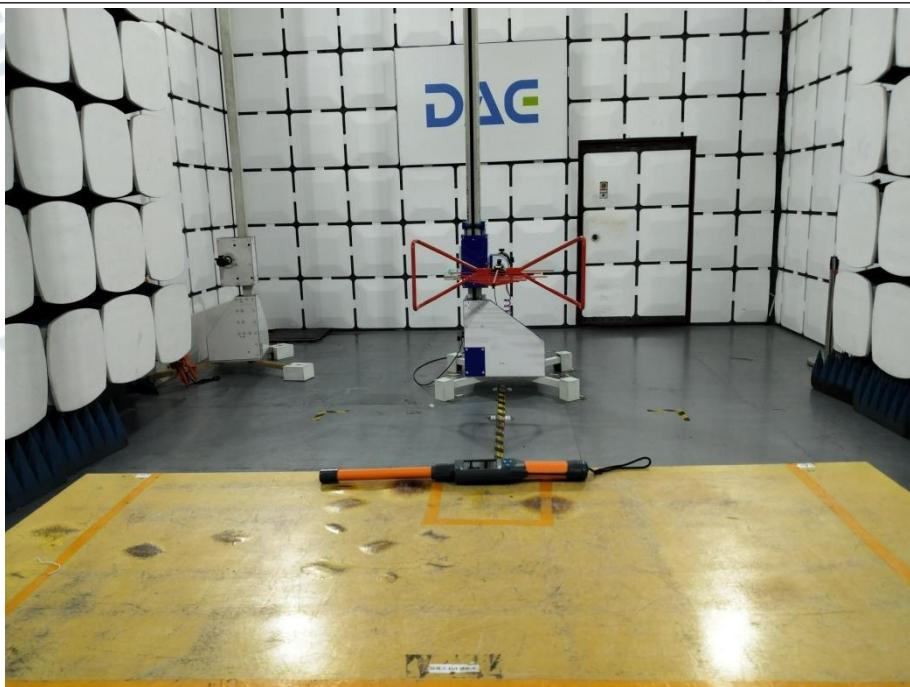
The test software will only record the worst test angle and height, and only the worst case will be recorded in the test report.

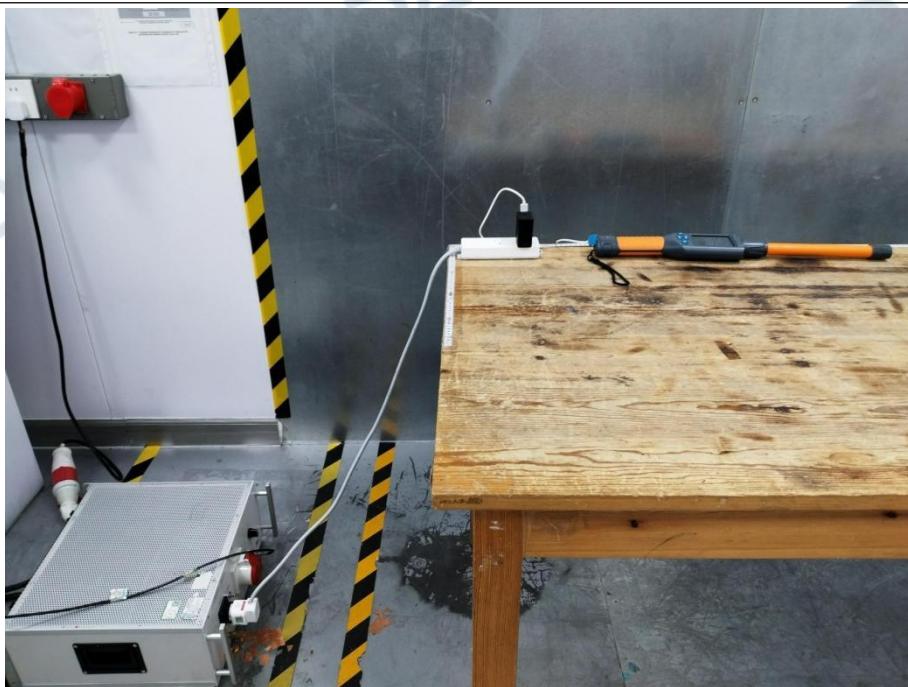
## 5 TEST SETUP PHOTOS

Emissions in frequency bands (below 30MHz)



Emissions in frequency bands (30MHz - 1GHz)



**Conducted Emission at AC power line**

## 6 PHOTOS OF THE EUT

Please Refer to report DACE241209060RL001 for Details.

\*\*\*\*\* End of Report \*\*\*\*\*