

# Test Report

**Applicant** : Dongguanshikangdigekejiyouxiangongsi  
Room 601, No.302, Houjie Section, Huangan  
**Address** : Express Road, Houjie Town, Dongguan City,  
Guangdong Province, China  
**Product Name** : Wireless Presenter  
**Brand Mark** : Mketnyny  
**Model** : PPC-REC-US  
**Series model** : N/A  
**FCC ID** : 2BKL7-K900  
**Report Number** : BLA-EMC-202409-A2302  
**Date of Receipt** : 2024.09.06  
**Date of Test** : 2024.09.09 to 2024.09.23  
**Test Standard** : 47 CFR Part 15, Subpart C 15.249  
**Test Result** : Pass

Compiled by:

charlie

Review by:

Sueels

Approved by:

137166.Zheng

Issued Date:

2024.09.24



## BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

Address: Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District,  
Shenzhen, Guangdong Province, China



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## Revise Record

Version No.	Date	Description
01	2024.09.24	Original

BlueAsia

## 1 General information

### 1.1 General information

Applicant	Dongguanshikangdigekejiyouxiangongsi
Address	Room 601, No. 302, Houjie Section, Huanguan Express Road, Houjie Town, Dongguan City, Guangdong Province, China
Manufacturer	Dongguanshikangdigekejiyouxiangongsi
Address	Room 601, No. 302, Houjie Section, Huanguan Express Road, Houjie Town, Dongguan City, Guangdong Province, China
Factory	N/A
Address	N/A

### 1.2 General description of EUT

Product name	Wireless Presenter
Model no.	PPC-REC-US
Series model	N/A
Desc of series model	N/A
Operation Frequency:	2411MHz-2476MHz
Channel numbers:	66
Modulation type:	GFSK
Antenna Type:	PCB antenna
Antenna Gain:	-7.01dBi(Provided by customer)
Power supply or adapter information	Battery: DC1.5V
Hardware Version	N/A
Software Version	N/A
Engineer sample no	BLA-EMC-202409-A23

*Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.*

## 2 Test summary

No.	Test item	Result	Remark
1	Antenna Requirement	Pass	
2	Conducted Emissions at AC Power Line (150kHz-30MHz)	N/A	
3	20dB Bandwidth	Pass	
4	Field Strength of the Fundamental Signal (15.249(a))	Pass	
5	Radiated Emissions	Pass	
6	Restricted Band Around Fundamental Frequency	Pass	

### 3 Test Configuration

#### 3.1 Test mode

Test Mode <sup>Note 1</sup>	Description
TX	Keep the EUT in continuously transmitting with modulation mode.
RX	Keep the EUT in receiving mode
TX Low channel	Keep the EUT in continuously transmitting mode in low channel
TX middle channel	Keep the EUT in continuously transmitting mode in middle channel
TX high channel	Keep the EUT in continuously transmitting mode in high channel

*Note 1: The EUT was configured to measure its highest possible emission and/or immunity level. The test modes were adapted according to the operation manual for use*

### 3.2 Operation Frequency each of channel

Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2411MHz	22	2433MHz	44	2455MHz
1	2412MHz	23	2434MHz	45	2456MHz
2	2413MHz	24	2435MHz	46	2457MHz
3	2414MHz	25	2436MHz	47	2458MHz
4	2415MHz	26	2437MHz	48	2459MHz
5	2416MHz	27	2438MHz	49	2460MHz
6	2417MHz	28	2439MHz	50	2461MHz
7	2418MHz	29	2440MHz	51	2462MHz
8	2419MHz	30	2441MHz	52	2463MHz
9	2420MHz	31	2442MHz	53	2464MHz
10	2421MHz	32	2443MHz	54	2465MHz
11	2422MHz	33	2444MHz	55	2466MHz
12	2423MHz	34	2445MHz	56	2467MHz
13	2424MHz	35	2446MHz	57	2468MHz
14	2425MHz	36	2447MHz	58	2469MHz
15	2426MHz	37	2448MHz	59	2470MHz
16	2427MHz	38	2449MHz	60	2471MHz
17	2428MHz	39	2450MHz	61	2472MHz
18	2429MHz	40	2451MHz	62	2473MHz
19	2430MHz	41	2452MHz	63	2474MHz
20	2431MHz	42	2453MHz	64	2475MHz
21	2432MHz	43	2454MHz	65	2476MHz

### 3.3 Test channel

Channel	Frequency
The lowest channel	2411MHz
The middle channel	2448MHz
The Highest channel	2476MHz

### 3.4 Auxiliary equipment

Device Type	Manufacturer	Model Name	Serial No.	Remark
N/A	N/A	N/A	N/A	N/A

**Note:**

“--” mean no any auxiliary device during testing.

### 3.5 Test environment

Environment	Temperature	Voltage
Normal	25°C	DC 1.5V

## 4 Laboratory information

### 4.1 Laboratory and accreditations

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

Company name:	BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Address:	Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
Telephone:	+86-755-28682673
FAX:	+86-755-28682673

### 4.2 Measurement uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=1.96$ .

Parameter	Expanded Uncertainty
Radiated Emission(9kHz-30MHz)	$\pm 4.34\text{dB}$
Radiated Emission(30Mz-1000MHz)	$\pm 4.24\text{dB}$
Radiated Emission(1GHz-18GHz)	$\pm 4.68\text{dB}$
AC Power Line Conducted Emission(150kHz-30MHz)	$\pm 3.45\text{dB}$
Occupied Channel Bandwidth	$\pm 5\%$
RF output power, conducted	$\pm 1.5\text{ dB}$
Power Spectral Density, conducted	$\pm 3.0\text{ dB}$
Unwanted Emissions, conducted	$\pm 3.0\text{ dB}$
Temperature	$\pm 3\text{ }^{\circ}\text{C}$
Supply voltages	$\pm 3\%$
Time	$\pm 5\%$

## 5 Test equipment

### Radiated Spurious Emissions (Below 1GHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-002-01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-002-02	Control room	966 control room	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-009	EMI receiver	ESR7	R&S	101199	2024/08/08	2025/08/07
BLA-EMC-043	Loop antenna	FMZB1519B	Schwarzbeck	00102	2024/06/29	2026/06/28
BLA-EMC-065	Broadband antenna	VULB9168	Schwarzbeck	01065P	2024/06/29	2026/06/27
BLA-XC-01	Coaxial Cable	N/A	BlueAsia	V01	N/A	N/A
BLA-XC-02	Coaxial Cable	N/A	BlueAsia	V02	N/A	N/A

### Radiated Spurious Emissions (Above 1GHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-001-01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2023/11/16	2026/11/15
BLA-EMC-001-02	Control Room	966 control room	SKET	N/A	2023/11/16	2025/11/15
BLA-EMC-008	Spectrum	FSP40	R&S	100817	2024/08/08	2025/08/07
BLA-EMC-012	Broadband antenna	VULB9168	Schwarzbeck	00836 P:00227	2022/10/12	2025/10/11
BLA-EMC-013	Horn Antenna	BBHA9120D	Schwarzbeck	01892	2024/06/29	2026/06/28
BLA-EMC-014	Amplifier	PA_000318G-45	SKET	PA201804 3003	2024/08/08	2025/08/07
BLA-EMC-046	Filter bank	2.4G/5G Filter bank	SKET	N/A	2024/06/28	2025/06/27
BLA-EMC-061	Receiver	ESPI7	R&S	101477	2024/06/28	2025/06/27
BLA-EMC-066	Amplifier	LNPA_30M01 G-30	SKET	SK202106 0801	2024/06/28	2025/06/27
BLA-EMC-086	Amplifier	LNPA_18G40 G-50dB	SKET	SK202207 1301	2024/06/28	2025/06/27
BLA-EMC-087	Horn Antenna	BBHA 9170	Schwarzbeck	1106	2024/06/29	2026/06/28
BLA-XC-03	Coaxial Cable	N/A	BlueAsia	V03	N/A	N/A
BLA-XC-04	Coaxial Cable	N/A	BlueAsia	V04	N/A	N/A

**RF conducted**

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-003-003	Shield room	5*3*3	SKET	N/A	2023/11/16	2025/11/15
BLA-EMC-016	Signal Generator	N5182A	Agilent	MY52420567	2024/06/28	2025/06/27
BLA-EMC-038	Spectrum	N9020A	Agilent	MY49100060	2024/08/08	2025/08/07
BLA-EMC-042	Power sensor	RPR3006W	DARE	14I00889SN042	2024/08/08	2025/08/07
BLA-EMC-044	Radio communication tester	CMW500	R&S	132429	2024/08/08	2025/08/07
BLA-EMC-064	Signal Generator	N5182B	KEYSIGHT	MY58108892	2024/06/28	2025/06/27
BLA-EMC-079	Spectrum	N9020A	Agilent	MY54420161	2024/08/08	2025/08/07
BLA-EMC-088	Audio Analyzer	ATS-1	Audio Precision	ATS141094	2024/06/28	2025/06/27

**Test Software Record:**

Software No.	Software Name	Manufacture	Software version	Test site
BLA-EMC-S001	EZ-EMC	EZ	EEMC-3A1+	RE
BLA-EMC-S002	EZ-EMC	EZ	EEMC-3A1+	RE
BLA-EMC-S010	MTS 8310	MW	2.0.0.0	RF

## 6 Test result

### 6.1 Antenna requirement

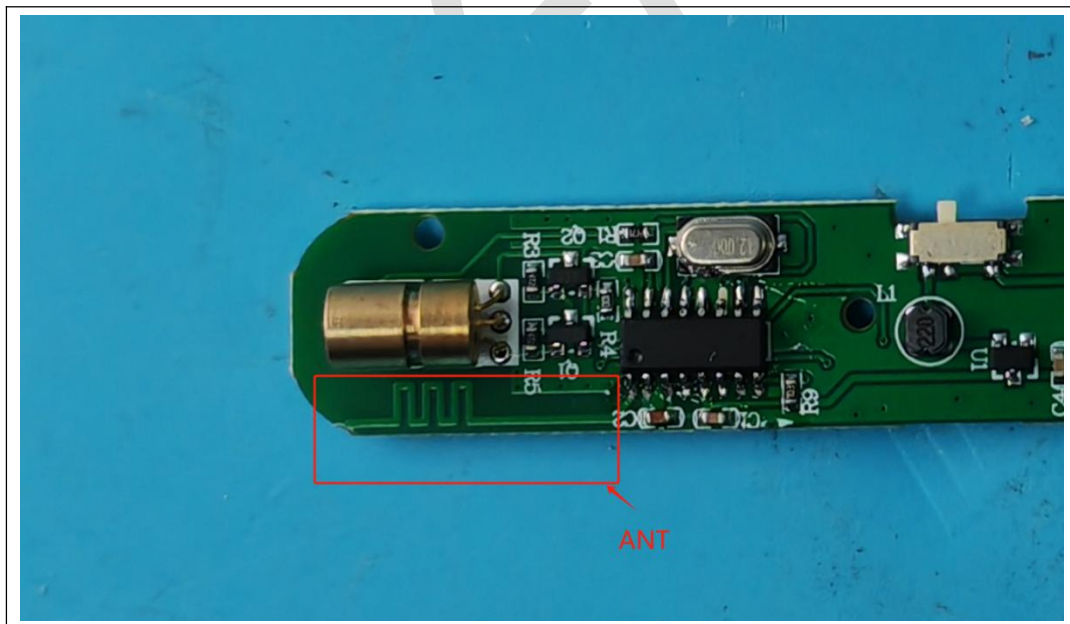
Test Standard	47 CFR Part 15, Subpart C 15.249
Test Method	N/A

#### 6.1.1 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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of a so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -7.01 dBi.



## 6.2 Conducted emissions at AC power line (150 kHz-30 MHz)

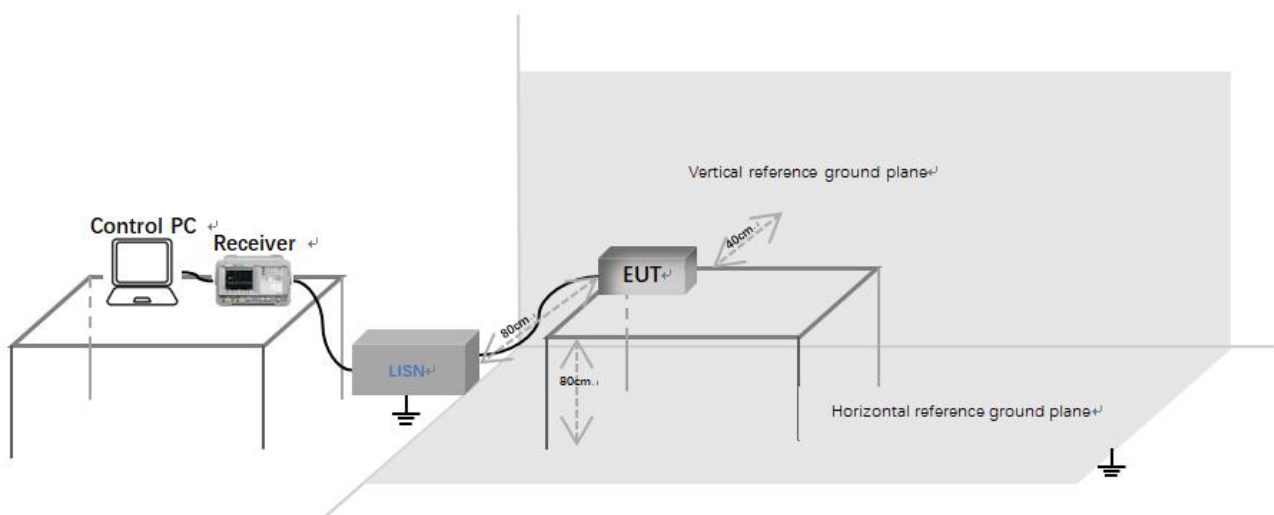
<b>Test Standard</b>	47 CFR Part 15, Subpart C 15.249
<b>Test Method</b>	ANSI C63.10 (2013) Section 6.2
<b>Test Mode (Pre-Scan)</b>	TX
<b>Test Mode (Final Test)</b>	TX

### 6.2.1 Limit

Frequency of emission(MHz)	Conducted limit(dBμV)	
	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.

### 6.2.2 Test setup



Description of test setup connection:

- Connect the control PC to the receiver through a USB to GPIB cable;
- The receiver is connected to the LISN through a coaxial line;
- Connect the power port of LISN to the EUT.

### 6.2.3 Procedure

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

LISN=Read Level+ Cable Loss+ LISN Factor

### 6.2.4 Test data

N/A

### 6.3 Field strength of the fundamental signal (15.249(A))

Test Standard	47 CFR Part 15, Subpart C 15.249
Test Method	ANSI C63.10 (2013) Section 6.5&6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

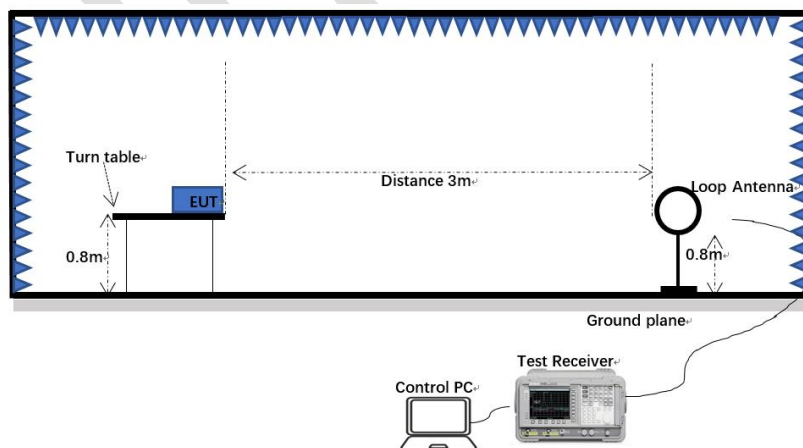
#### 6.3.1 Limit

Fundamental frequency(MHz)	Field strength of fundamental(microvolts/meter)	Field strength of harmonics(microvolts/meter)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

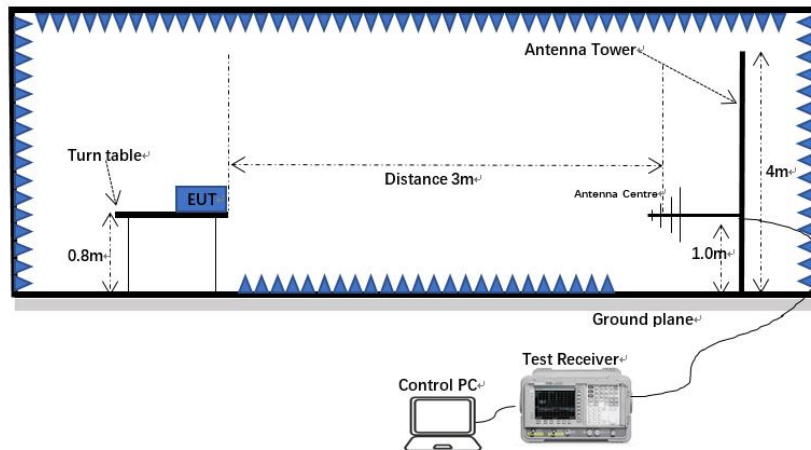
Remark: The frequencies above 1000MHz are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

#### 6.3.2 Test setup

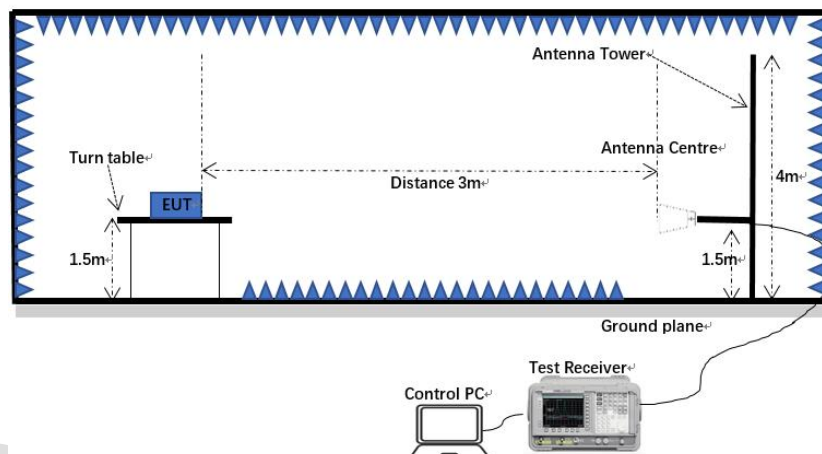
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



### 6.3.3 Procedure

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum

reading.

- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h) Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.
- k)  $\text{Level (dB}\mu\text{V/m)} = \text{Reading Level(dBuV)} + \text{Correct Factor (dB)}$
- l) SA setting: RBW=3MHz, VBW=10MHz , PK detector is for PK value ,RMS detector is for AV value.

#### 6.3.4 Test data

Peak value:

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Over Limit (dB)	Antenna Polaxis
2411	83.78	-2.45	81.33	114.00	-32.67	H
2411	68.76	-2.45	66.31	114.00	-47.69	V
2448	85.63	-2.71	82.92	114.00	-31.08	H
2448	68.19	-2.71	65.48	114.00	-48.52	V
2476	85.61	-2.87	82.74	114.00	-31.26	H
2476	67.90	-2.87	65.03	114.00	-48.97	V

Average value:

Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Over Limit (dB)	Antenna Polaxis
2411	75.96	-2.45	73.51	94.00	-20.49	H
2411	59.66	-2.45	57.21	94.00	-36.79	V
2448	75.39	-2.71	72.68	94.00	-21.32	H

2448	61.94	-2.71	59.23	94.00	-34.77	V
2476	75.30	-2.87	72.43	94.00	-21.57	H
2476	47.02	-2.87	44.150	94.00	-49.85	V

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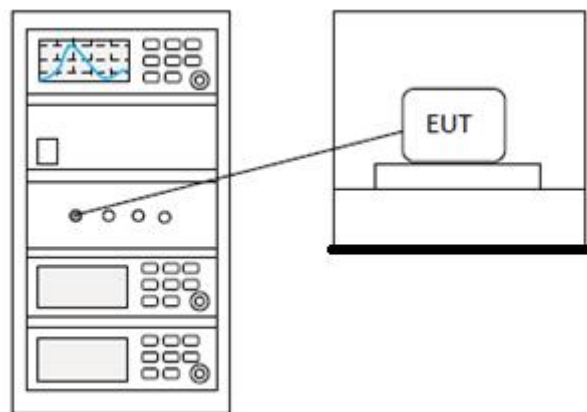
## 6.4 20dB bandwidth

Test Standard	47 CFR Part 15, Subpart C 15.249
Test Method	ANSI C63.10 (2013) Section 6.9
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

### 6.4.1 Limit

N/A

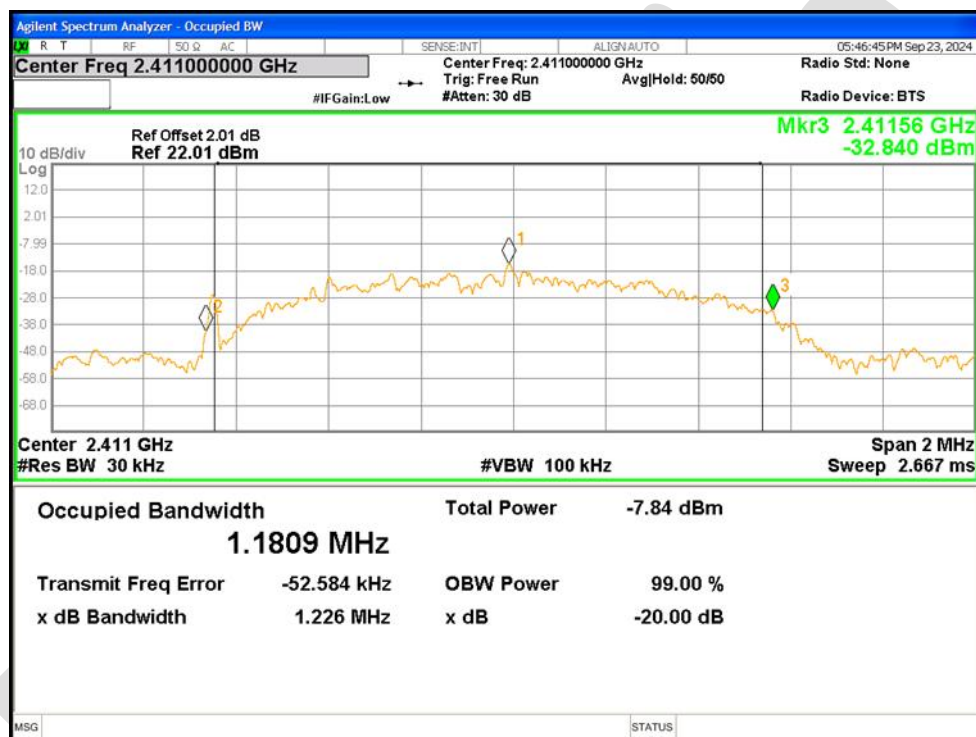
### 6.4.2 Test setup



### 6.4.3 Test data

Test Frequency MHz	-20 dB Bandwidth (MHz)	Result
2411	1.226	Pass
2448	1.091	Pass
2476	1.115	Pass

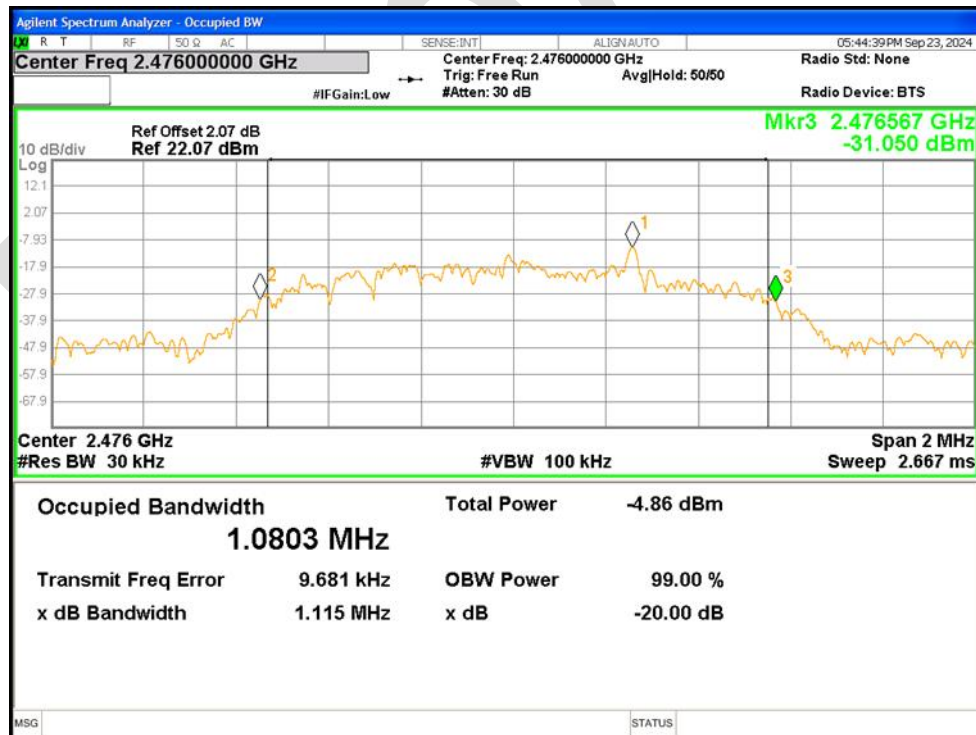
2411



2448



2476



## 6.5 Radiated spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.249
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

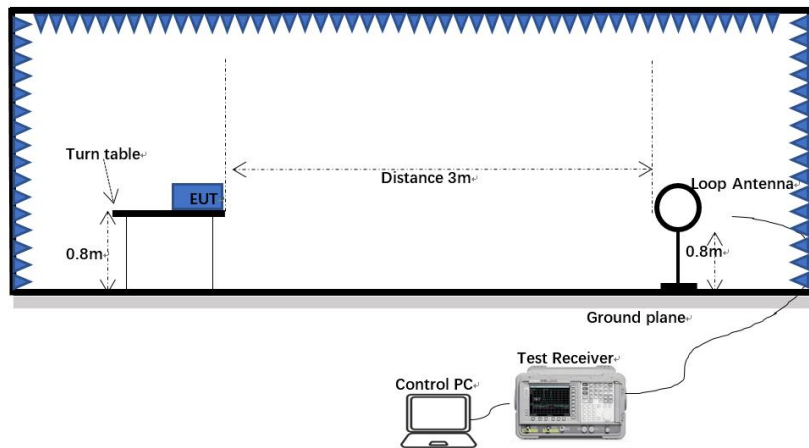
### 6.5.1 Limit

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30
30-88	100	40.0	QP	3
88-216	150	43.5	QP	3
216-960	200	46.0	QP	3
960-1000	500	54.0	QP	3
Above 1000	500	54.0	AV	3

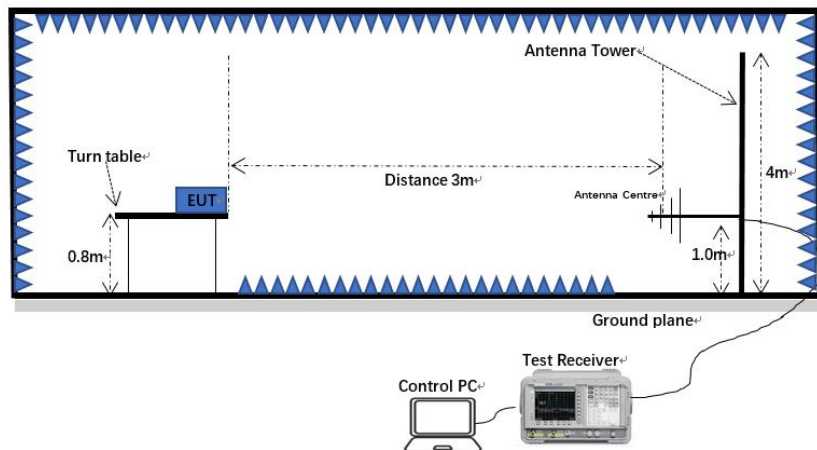
*Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.*

## 6.5.2 Test setup

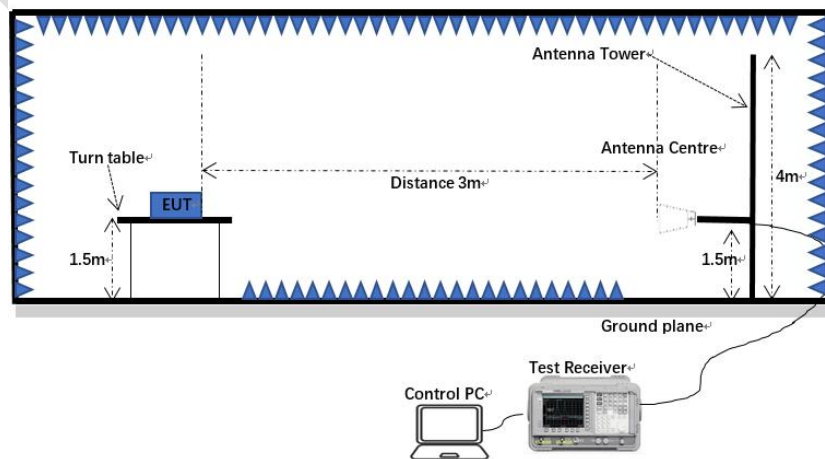
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



### 6.5.3 Procedure

*For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.*

*Remark:*

*1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.*

*2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:*

*Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor*

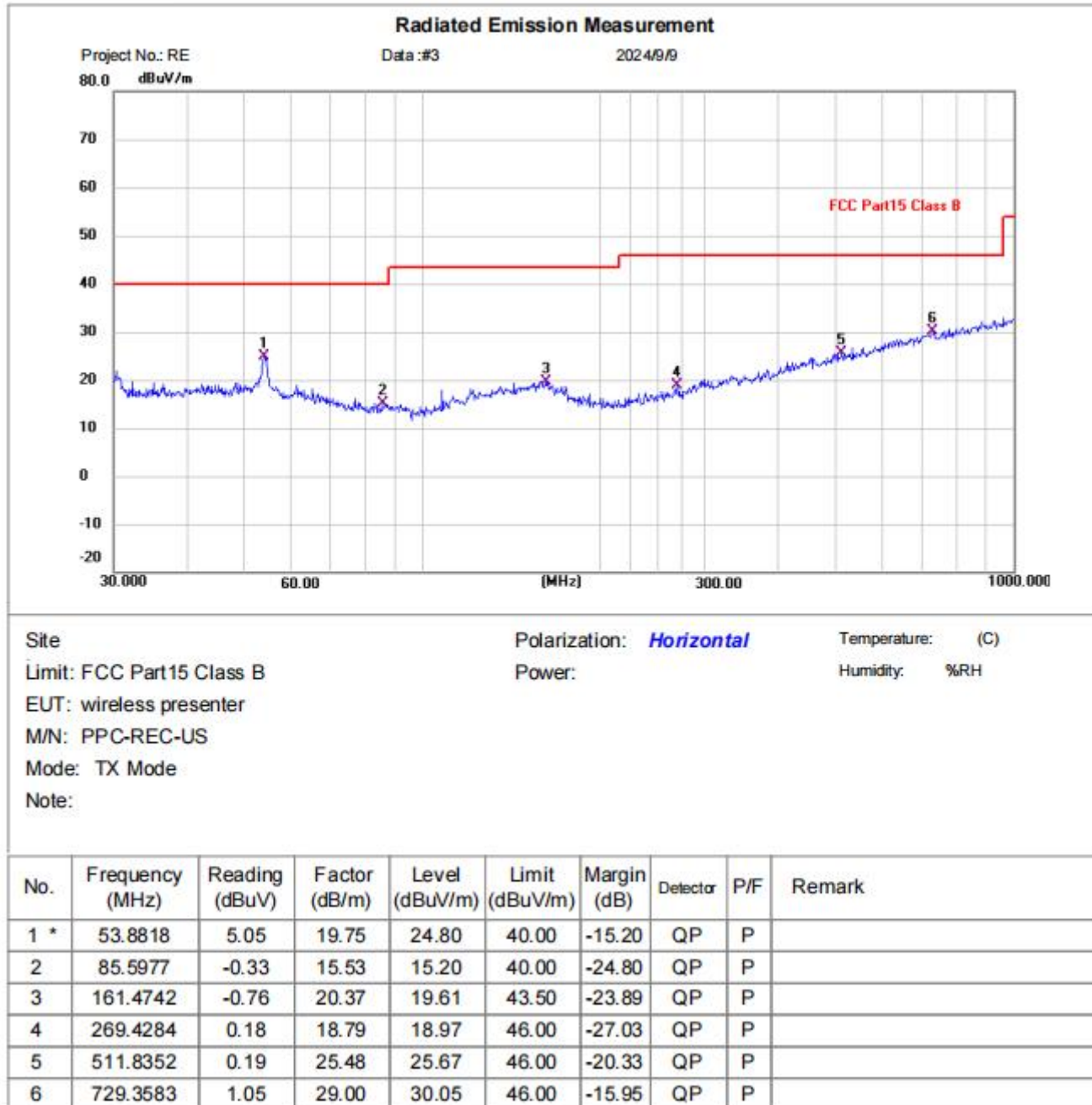
*3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.*

*4) For frequencies above 1GHz, the field strength limits 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 the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.*

#### 6.5.4 Test data

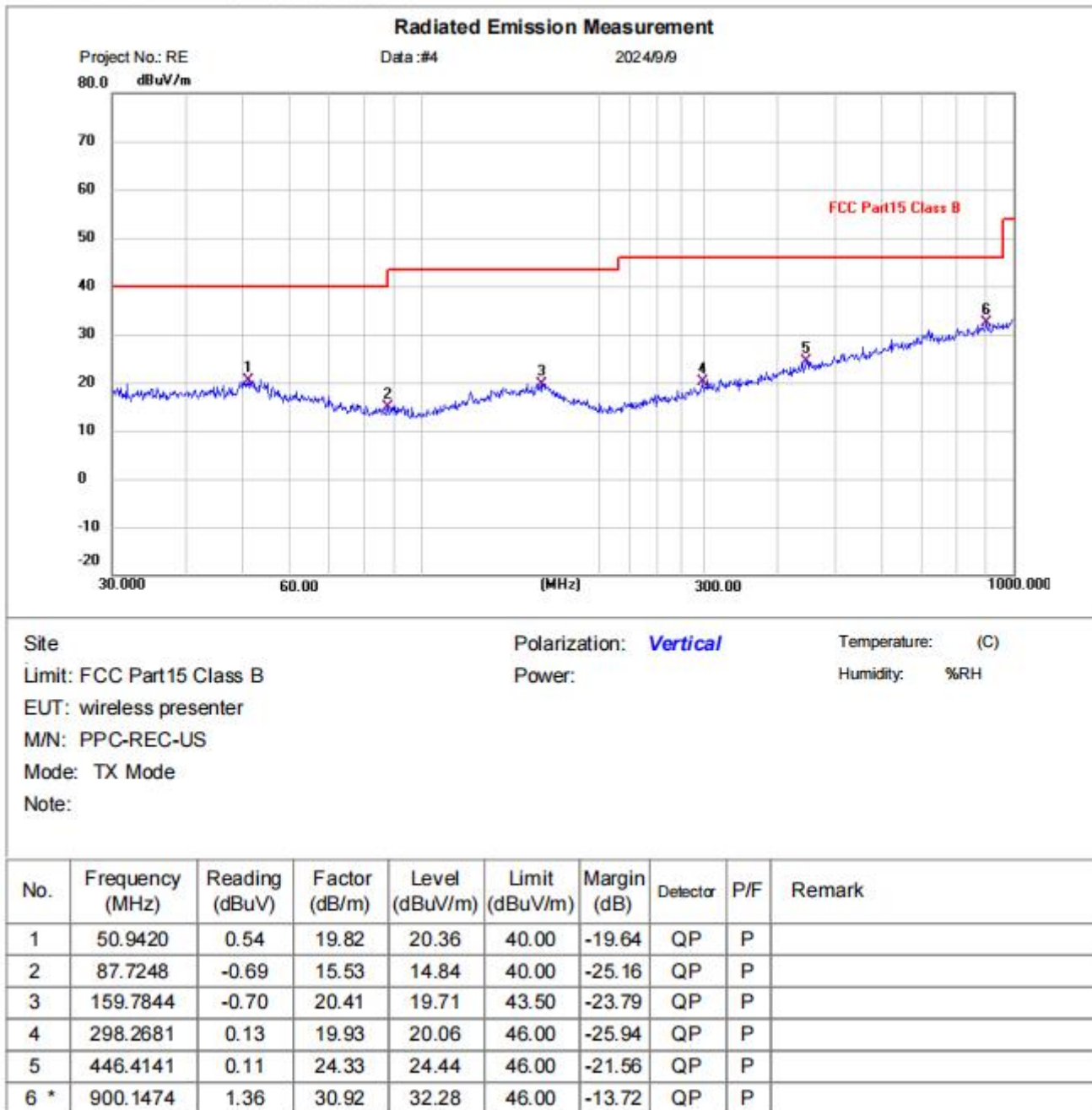
Below 1GHz

[Test mode: TX]; [Polarity: Horizontal]



**Test Result: Pass**

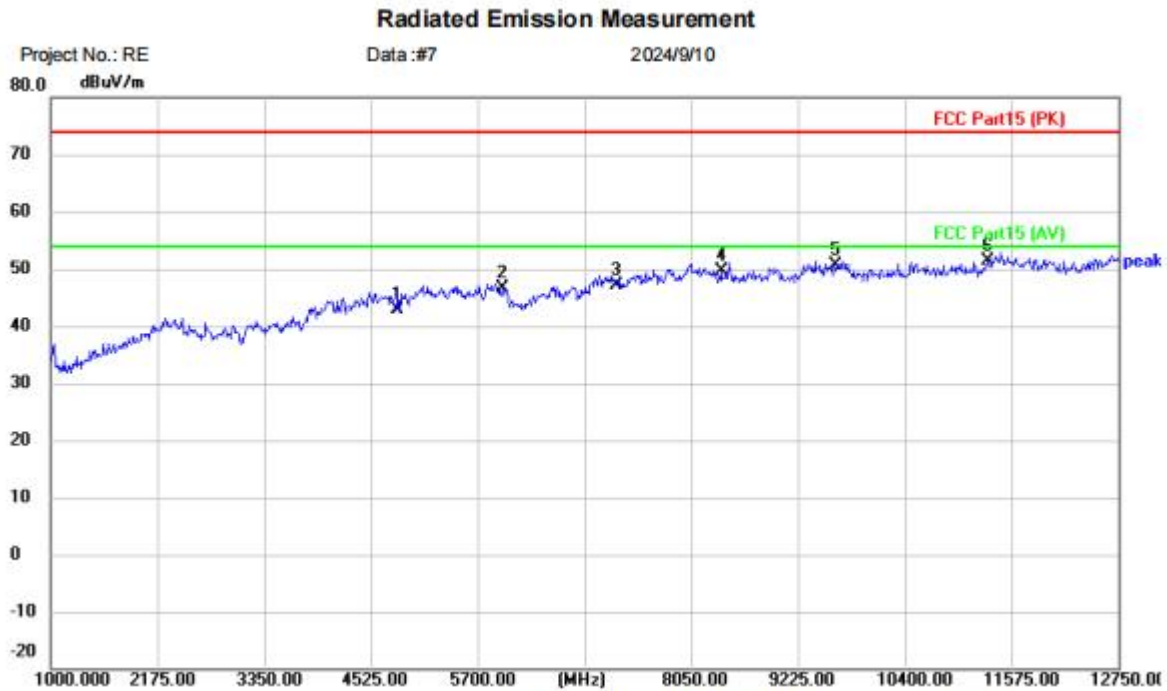
[Test mode: TX]; [Polarity: Vertical]



**Test Result: Pass**

Above 1GHz:

[Test mode: TX low channel]; [Polarity: Horizontal]



Site      Polarization: **Horizontal**      Temperature: (C)

Limit: FCC Part15 (PK)      Power:      Humidity: %RH

EUT: wireless presenter

M/N: PPC-REC-US

Mode: 2.4G WIFI TX 2411

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4822.000	36.49	6.30	42.79	74.00	-31.21	peak	
2		5970.250	37.58	8.99	46.57	74.00	-27.43	peak	
3		7233.000	36.74	10.45	47.19	74.00	-26.81	peak	
4		8379.000	38.55	11.01	49.56	74.00	-24.44	peak	
5		9644.000	37.13	13.45	50.58	74.00	-23.42	peak	
6	*	11316.50	37.37	13.94	51.31	74.00	-22.69	peak	

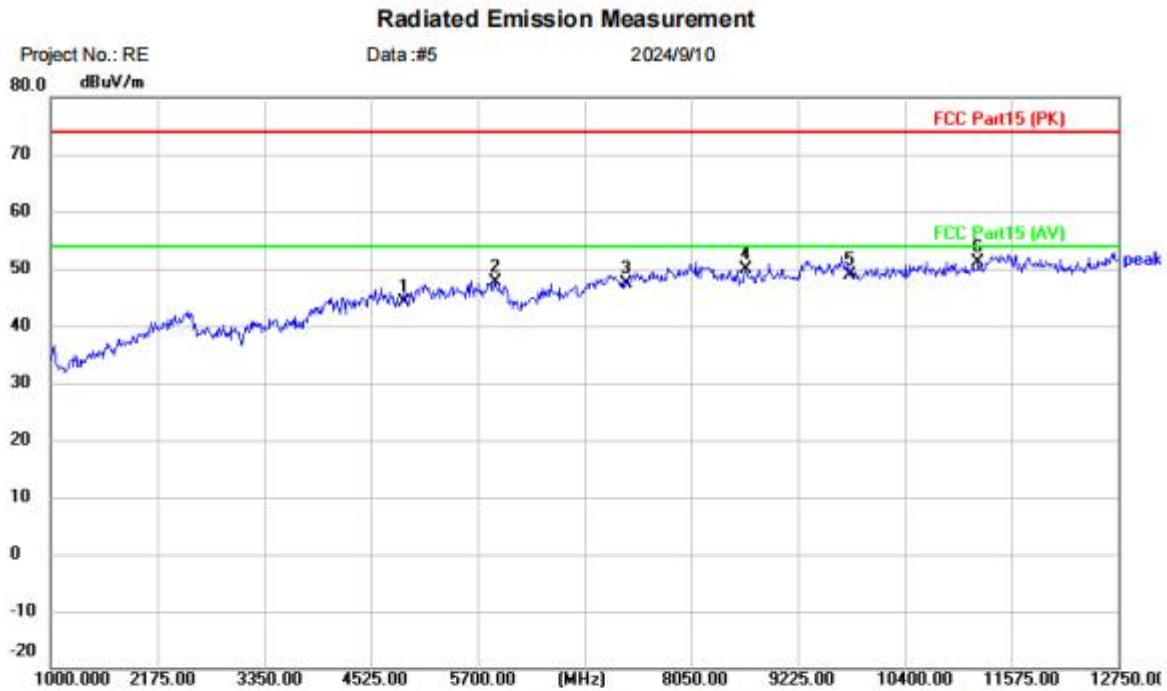
**Test Result: Pass**

[Test mode: TX low channel]; [Polarity: Vertical]



**Test Result: Pass**

[Test mode: TX middle channel]; [Polarity: Horizontal]



Site:      Polarization: **Horizontal**      Temperature: (C)

Limit: FCC Part15 (PK)      Power:      Humidity: %RH

EUT: wireless presenter

M/N: PPC-REC-US

Mode: 2.4G WIFI TX 2448

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4896.000	37.66	6.50	44.16	74.00	-29.84	peak	
2		5888.000	38.49	9.05	47.54	74.00	-26.46	peak	
3		7344.000	36.95	10.50	47.45	74.00	-26.55	peak	
4		8649.250	38.05	11.79	49.84	74.00	-24.16	peak	
5		9792.000	35.11	13.65	48.76	74.00	-25.24	peak	
6	*	11210.75	37.18	13.90	51.08	74.00	-22.92	peak	

**Test Result: Pass**

[Test mode: TX middle channel]; [Polarity: Vertical]



**Test Result: Pass**

[Test mode: TX High channel]; [Polarity: Horizontal]



**Test Result: Pass**

[Test mode: TX High channel]; [Polarity: Vertical]



**Test Result: Pass**

## 6.6 Restricted bands around fundamental frequency

Test Standard	47 CFR Part 15, Subpart C 15.249
Test Method	ANSI C63.10 (2013) Section 6.4&6.5&6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

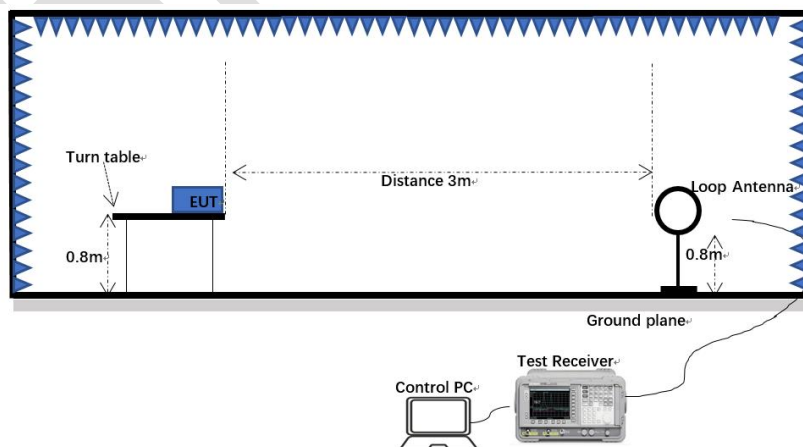
### 6.6.1 Limit

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
Above 1GHz	74.0	Peak Value

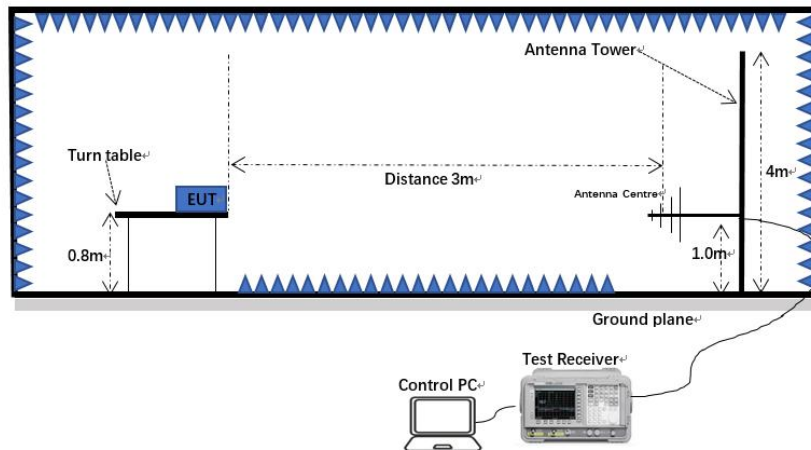
*Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.*

### 6.6.2 Test setup

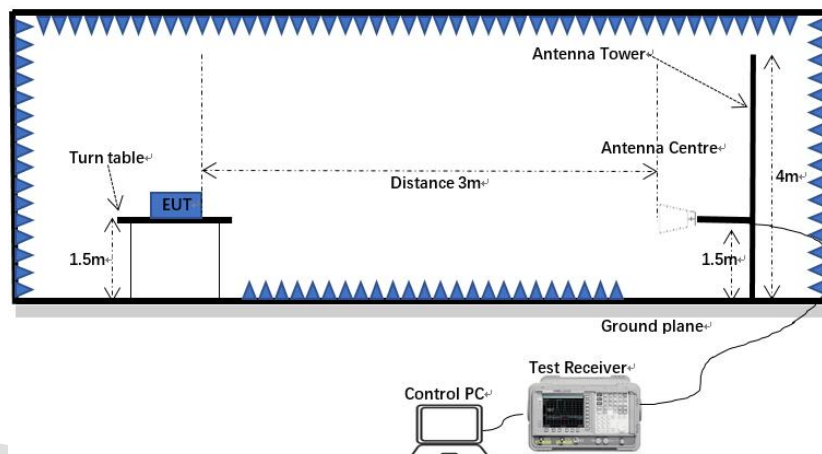
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



### 6.6.3 Procedure

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was

tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

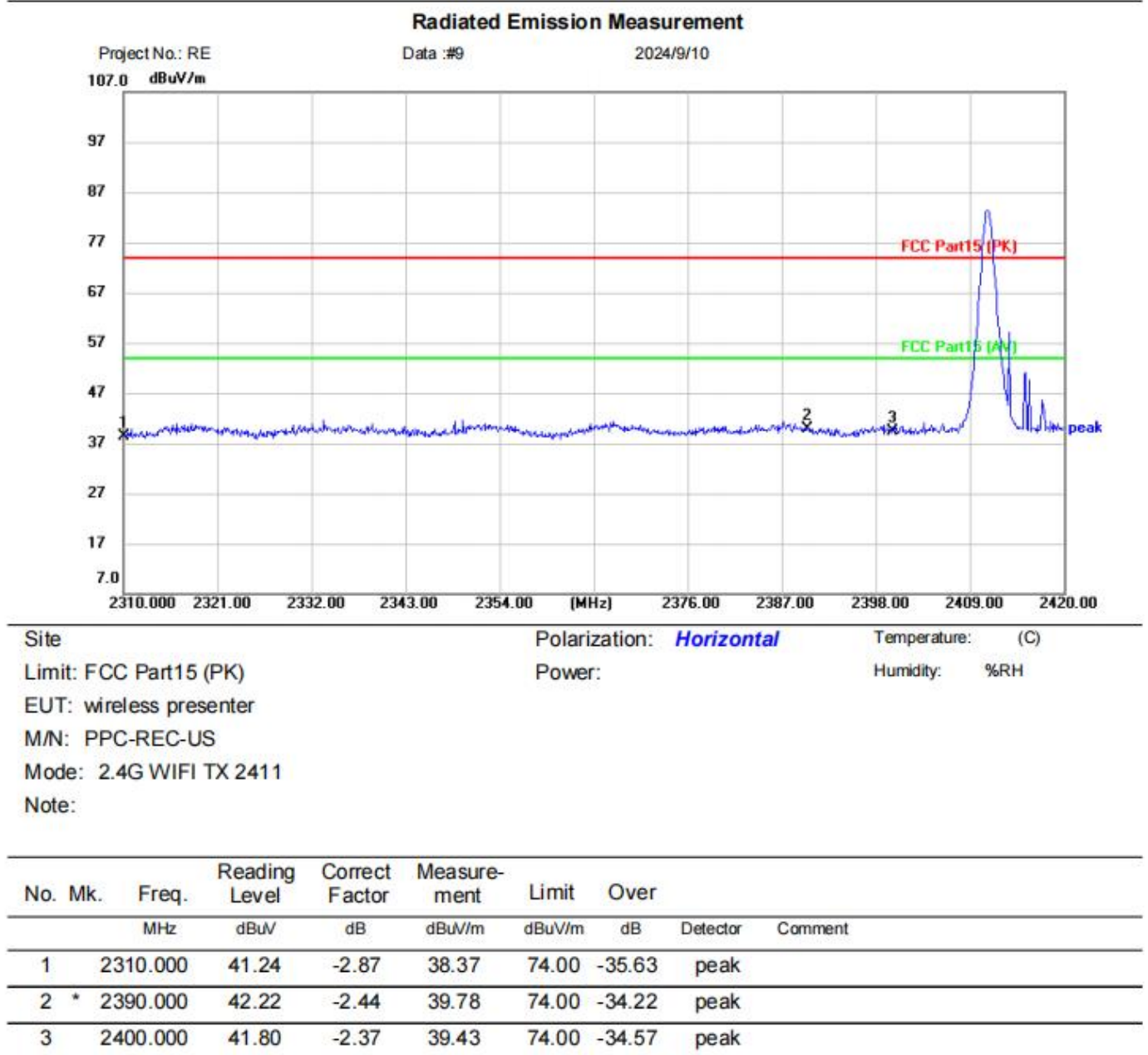
- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h) Test the EUT in the lowest channel, the middle channel, the highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

Note 1:  $\text{Level (dBuV)} = \text{Reading (dBuV)} + \text{Factor (dB/m)}$

Note 2: For frequencies above 1GHz, the field strength limits 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 the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

## 6.6.4 Test data

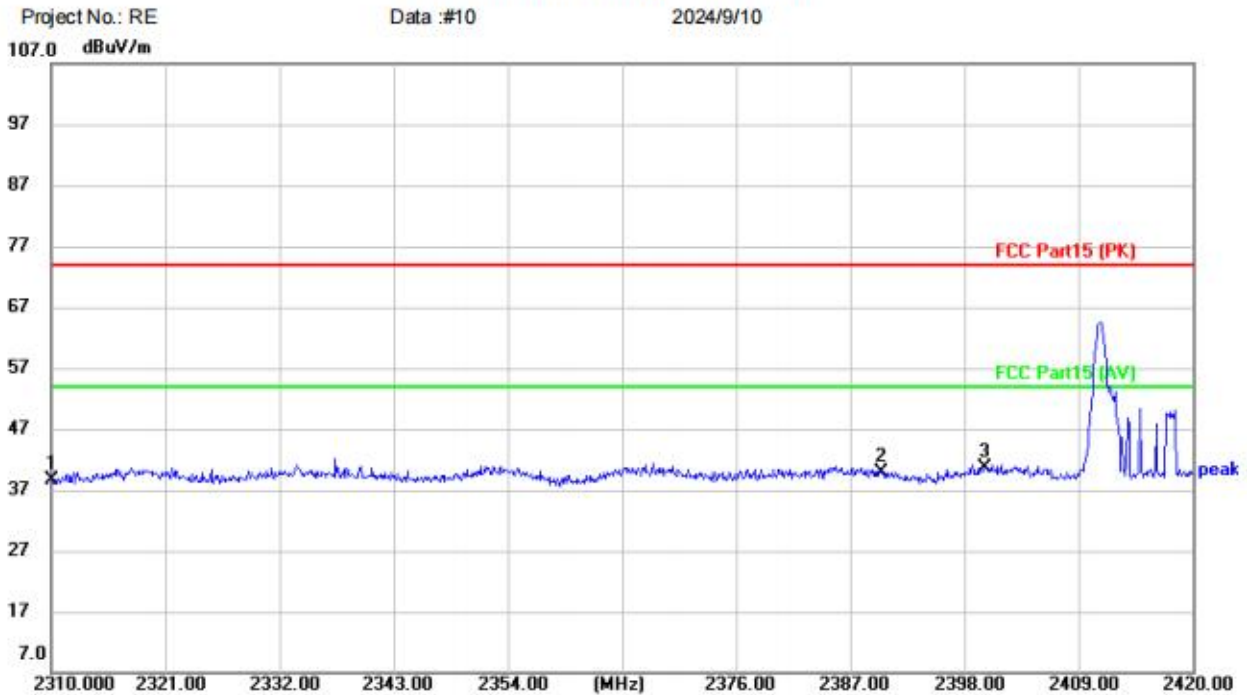
[Test mode: TX low channel]; [Polarity: Horizontal]



**Test Result: Pass**

[Test mode:TX low channel]; [Polarity: Vertical]

## Radiated Emission Measurement

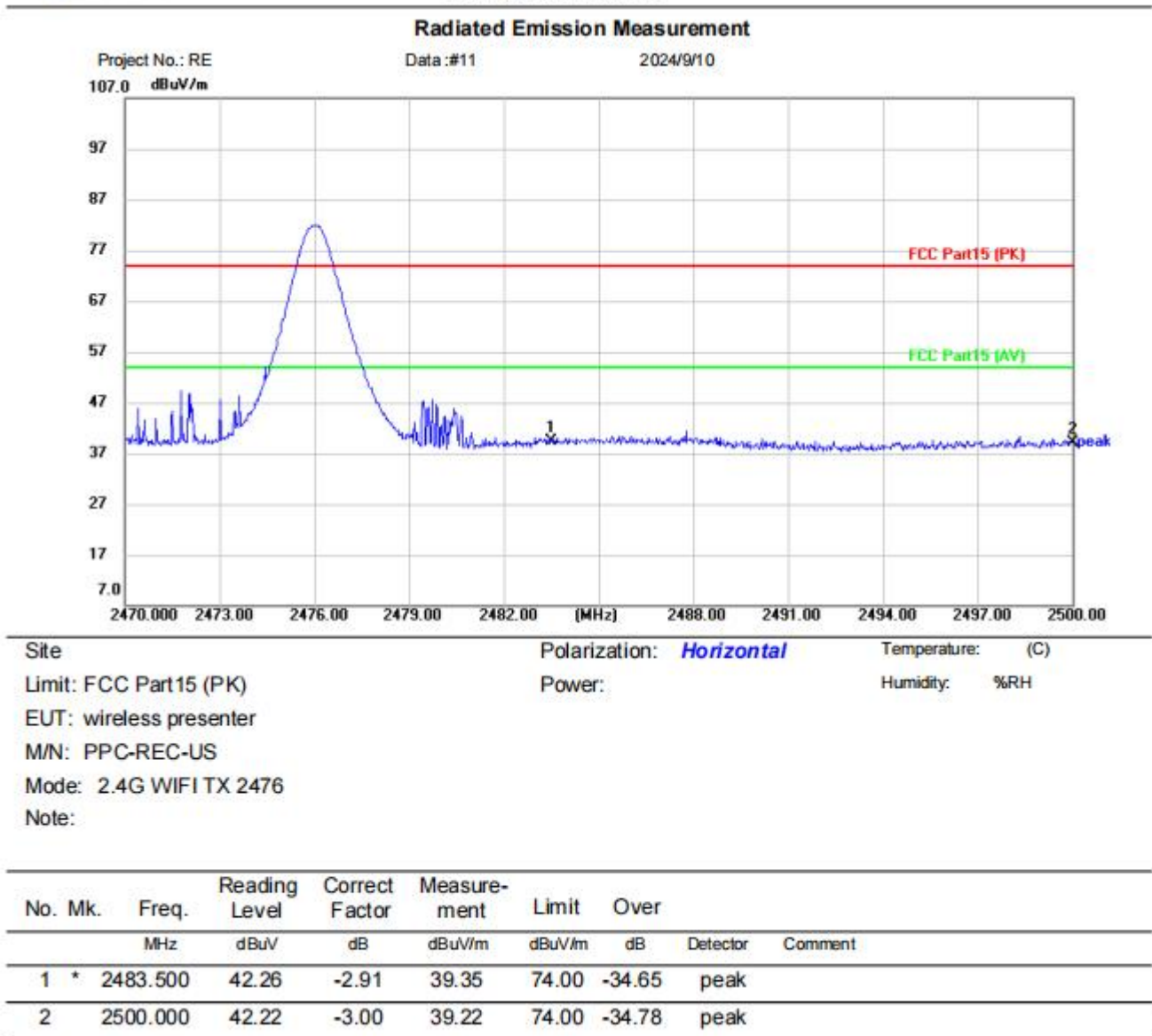


Site Polarization: **Vertical** Temperature: (C)  
Limit: FCC Part15 (PK) Power: Humidity: %RH  
EUT: wireless presenter  
M/N: PPC-REC-US  
Mode: 2.4G WIFI TX 2411  
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		2310.000	41.49	-2.87	38.62	74.00	-35.38	peak	
2		2390.000	42.44	-2.44	40.00	74.00	-34.00	peak	
3	*	2400.000	43.04	-2.37	40.67	74.00	-33.33	peak	

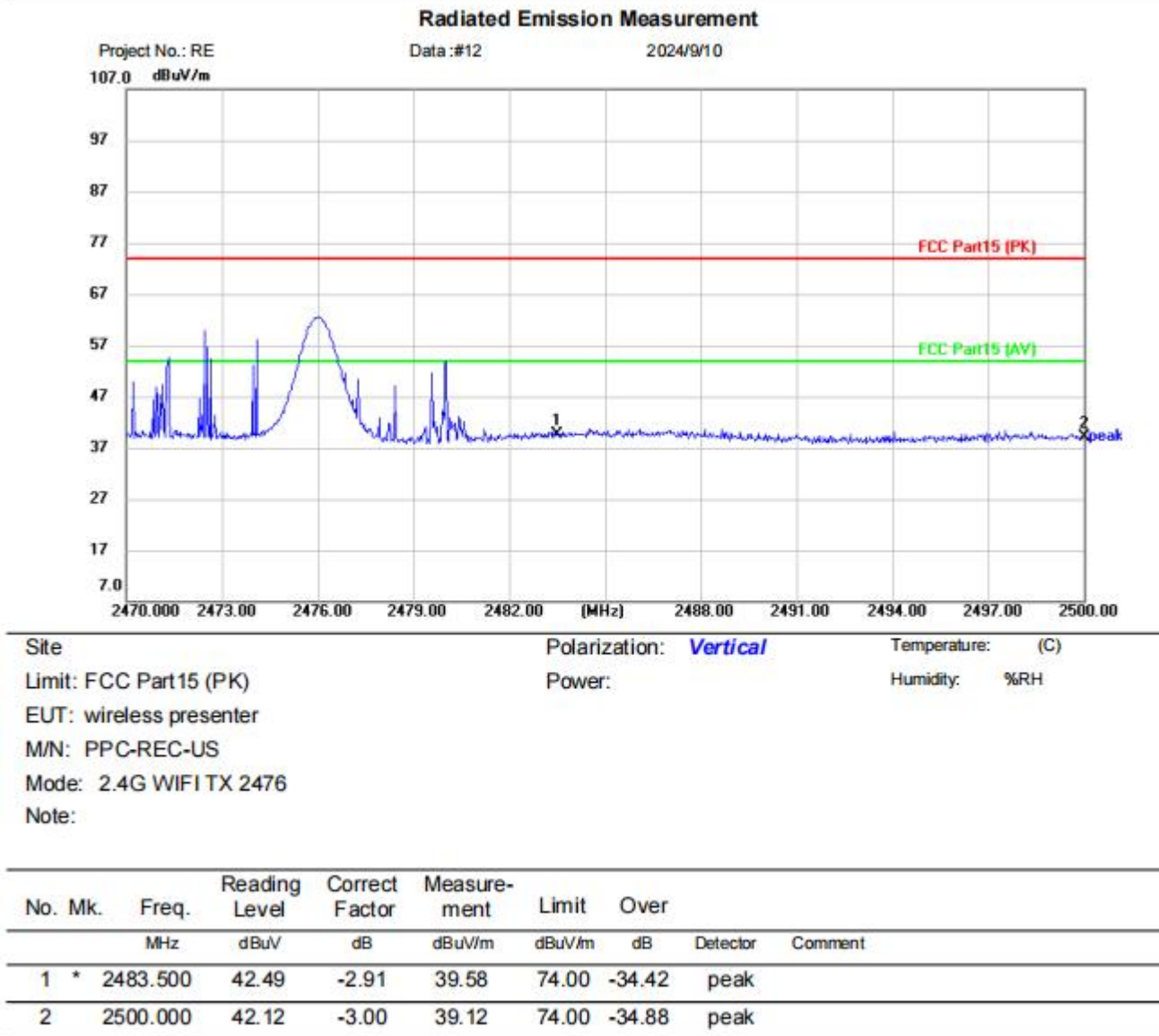
Test Result: Pass

[Test mode: TX High channel]; [Polarity: Horizontal]



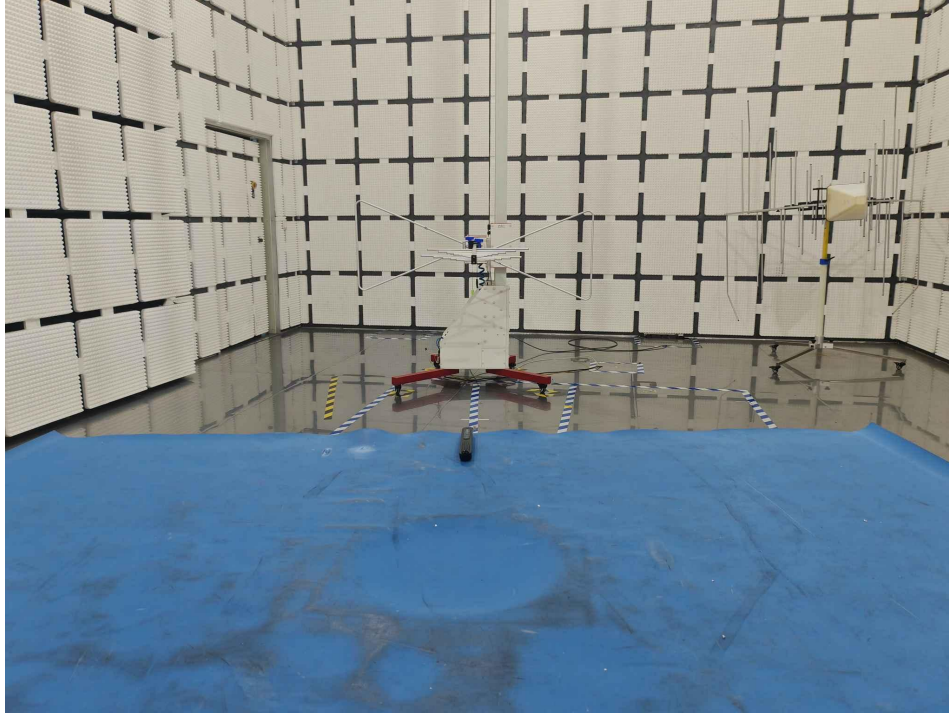
**Test Result: Pass**

[Test mode:TX High channel]; [Polarity: Vertical]

**Test Result: Pass**

## 7 Appendix A photographs of test setup

Radiated Emissions (30MHz-1GHz)



Radiated Emissions (above 1GHz)



## 8 Appendix B: photographs of EUT

Reference to the test report no. BLA-EMC-202409-A2301

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

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