

# FCC C2PC Test Report

**FCC ID** : SWX-UDR  
**Equipment** : UniFi Dream Router  
**Model No.** : UDR  
**Brand Name** : UBIQUITI  
**Applicant** : Ubiquiti Inc.  
**Address** : 685 Third Avenue, (27th Floor) New York, New York 10017 USA  
**Standard** : 47 CFR FCC Part 15.247  
**Received Date** : Jun. 08, 2021  
**Tested Date** : Oct. 08, 2021

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:



Along Chen / Assistant Manager

Approved by:



Gary Chang / Manager



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## Release Record

Report No.	Version	Description	Issued Date
FR160801-02AE	Rev. 01	Initial issue	Nov. 11, 2021

## Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.564MHz 42.96 (Margin -3.04dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 36.79MHz 36.93 (Margin -3.07dB) - QP	Pass

### Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

### Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

# 1 General Description

## 1.1 Information

This is a Class II Permissive Change report (C2PC).

This report is issued as a supplementary report to original ICC report no. FR160801AE. The difference is concerned with following item:

- ✧ LCM spi clk pin R8421 change to 33 ohm
- ✧ LED DIN pin R8408 change to 47 ohm
- ✧ Vendor of power transformer is changed.
- ✧ Conductive fabric is added on RJ45 port

Conducted Emissions & Radiated emission below 1GHz tests have been performed and are recorded in the following sections.

### 1.1.1 Specification of the Equipment under Test (EUT)

RF General Information				
Frequency Range (MHz)	Bluetooth Mode	Ch. Freq. (MHz)	Channel Number	Data Rate
2400-2483.5	V5.1 LE	2402-2480	0-39 [40]	125 kbps
				500 kbps
				1 Mbps
2400-2483.5	V5.1 LE	2402-2480	0-39 [40]	2 Mbps

Note: Bluetooth LE (Low energy) uses GFSK modulation.

### 1.1.2 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Gain (dBi)	Remarks
1	UBIQUITI	ANT 5	Dipole	I-PEX	2.5	---

### 1.1.3 Power Supply Type of Equipment under Test (EUT)

<b>Power Supply Type</b>	100-240V~1.1A Max, 50/60Hz
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### 1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	Power cord	2m, non-shielded without core

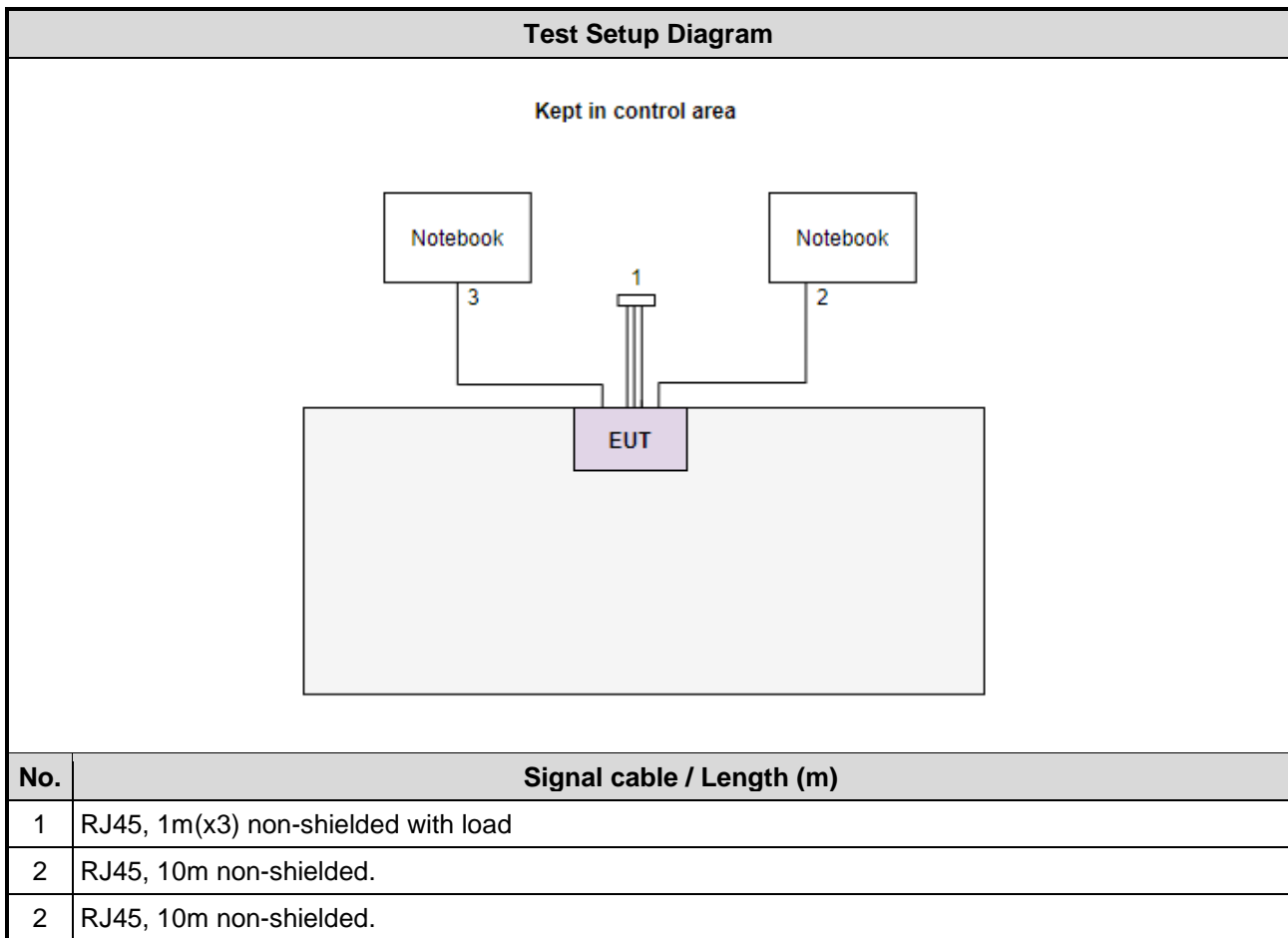
### 1.1.5 Channel List

Frequency band (MHz)				2400~2483.5			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
37	2402	9	2422	18	2442	28	2462
0	2404	10	2424	19	2444	29	2464
1	2406	38	2426	20	2446	30	2466
2	2408	11	2428	21	2448	31	2468
3	2410	12	2430	22	2450	32	2470
4	2412	13	2432	23	2452	33	2472
5	2414	14	2434	24	2454	34	2474
6	2416	15	2436	25	2456	35	2476
7	2418	16	2438	26	2458	36	2478
8	2420	17	2440	27	2460	39	2480

## 1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	RJ45	ICC	RJ45-10m	---	---
2	RJ45	ICC	RJ45-10m	---	---
3	RJ45	ICC	RJ45-1m	---	---
4	RJ45	ICC	RJ45-1m	---	---
5	RJ45	ICC	RJ45-1m	---	---
6	RJ45 Load	ICC	--	---	---
7	Notebook	DELL	Latitude 5400	DoC	---
8	Notebook	DELL	Latitude E5470	DoC	---

## 1.3 Test Setup Chart



## 1.4 Test Equipment List and Calibration Data

<b>Test Item</b>	Conducted Emission				
<b>Test Site</b>	Conduction room 1 / (CO01-WS)				
<b>Test Date</b>	Oct. 08, 2021				
<b>Instrument</b>	<b>Brand</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
Receiver	R&S	ESR3	101658	Feb. 08, 2021	Feb. 07, 2022
LISN	R&S	ENV216	101579	Mar. 17, 2021	Mar. 16, 2022
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Dec. 29, 2020	Dec. 28, 2021
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 21, 2020	Oct. 20, 2021
50 ohm terminal (Support Unit)	NA	50	04	May 25, 2021	May 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA

Note: Calibration Interval of instruments listed above is one year.

<b>Test Item</b>	Radiated Emission below 1GHz				
<b>Test Site</b>	966 chamber1 / (03CH01-WS)				
<b>Test Date</b>	Oct. 08, 2021				
<b>Instrument</b>	<b>Brand</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 17, 2020	Nov. 16, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 05, 2021	Oct. 04, 2022
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA

Note: Calibration Interval of instruments listed above is one year.



## 1.5 Test Standards

47 CFR FCC Part 15.247

ANSI C63.10-2013

## 1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

## 1.7 Deviation from Test Standard and Measurement Procedure

None

## 1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ( $k=2$ )).

Measurement Uncertainty	
Parameters	Uncertainty
AC conducted emission	$\pm 2.92$ dB
Radiated emission $\leq 1$ GHz	$\pm 3.41$ dB

## 2 Test Configuration

### 2.1 Testing Facility

<b>Test Laboratory</b>	International Certification Corporation
<b>Test Site</b>	CO01-WS, 03CH01-WS
<b>Address of Test Site</b>	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

### 2.2 The Worst Test Modes and Channel Details

Test item	Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions Radiated Emissions ≤ 1GHz	BT LE	2402	2Mbps	---

## 3 Transmitter Test Results

### 3.1 Conducted Emissions

#### 3.1.1 Limit of Conducted Emissions

Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: \* Decreases with the logarithm of the frequency.

#### 3.1.2 Test Procedures

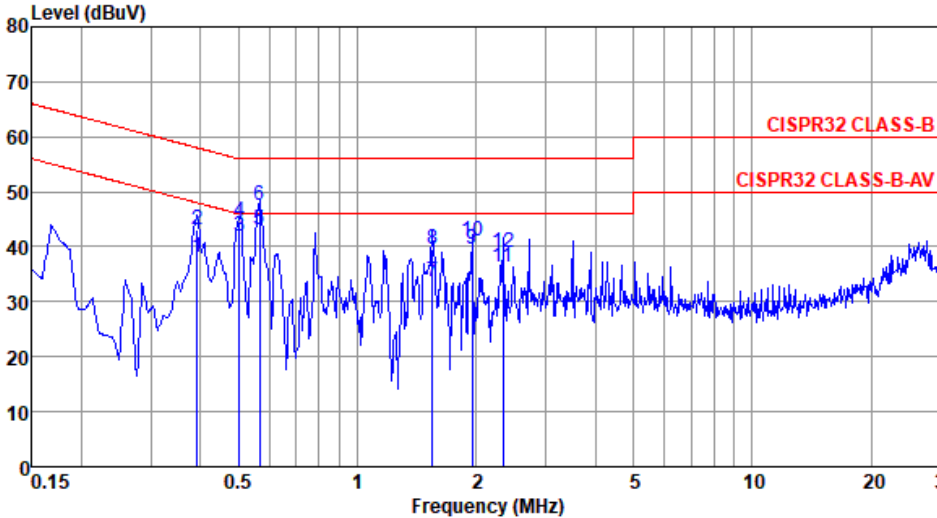
1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50  $\Omega$  LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

#### 3.1.3 Test Setup



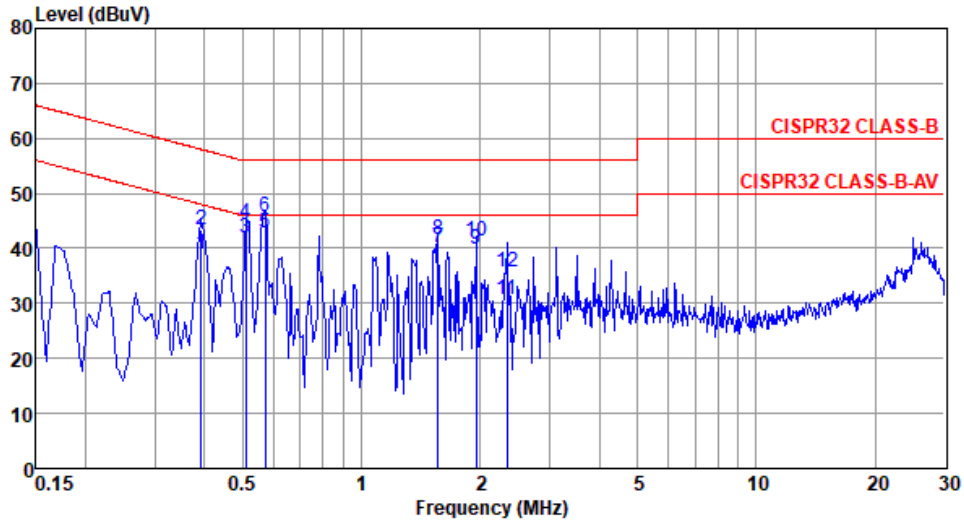
- Note: 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

### 3.1.4 Test Result of Conducted Emissions

Modulation Mode	BT LE-2Mbps	Test Freq. (MHz)	2402																																																																																																																					
Power Phase	Line																																																																																																																							
Test by : Joe Liao      Temperature: 22°C      Humidity: 68%																																																																																																																								
																																																																																																																								
<table border="1"> <thead> <tr> <th></th> <th>Freq MHz</th> <th>Level dBuV</th> <th>Limit Line dBuV</th> <th>Over Limit dB</th> <th>Read Level dBuV</th> <th>Factor dB</th> <th>Cable loss dB</th> <th>Remark</th> </tr> </thead> <tbody> <tr><td>1</td><td>0.393</td><td>38.15</td><td>47.99</td><td>-9.84</td><td>28.43</td><td>9.64</td><td>0.08</td><td>Average</td></tr> <tr><td>2</td><td>0.393</td><td>43.03</td><td>57.99</td><td>-14.96</td><td>33.31</td><td>9.64</td><td>0.08</td><td>QP</td></tr> <tr><td>3</td><td>0.502</td><td>41.83</td><td>46.00</td><td>-4.17</td><td>32.10</td><td>9.64</td><td>0.09</td><td>Average</td></tr> <tr><td>4</td><td>0.502</td><td>44.56</td><td>56.00</td><td>-11.44</td><td>34.83</td><td>9.64</td><td>0.09</td><td>QP</td></tr> <tr><td>5*</td><td>0.564</td><td>42.96</td><td>46.00</td><td>-3.04</td><td>33.22</td><td>9.64</td><td>0.10</td><td>Average</td></tr> <tr><td>6</td><td>0.564</td><td>47.59</td><td>56.00</td><td>-8.41</td><td>37.85</td><td>9.64</td><td>0.10</td><td>QP</td></tr> <tr><td>7</td><td>1.552</td><td>33.63</td><td>46.00</td><td>-12.37</td><td>23.81</td><td>9.66</td><td>0.16</td><td>Average</td></tr> <tr><td>8</td><td>1.552</td><td>39.60</td><td>56.00</td><td>-16.40</td><td>29.78</td><td>9.66</td><td>0.16</td><td>QP</td></tr> <tr><td>9</td><td>1.949</td><td>39.67</td><td>46.00</td><td>-6.33</td><td>29.83</td><td>9.66</td><td>0.18</td><td>Average</td></tr> <tr><td>10</td><td>1.949</td><td>41.08</td><td>56.00</td><td>-14.92</td><td>31.24</td><td>9.66</td><td>0.18</td><td>QP</td></tr> <tr><td>11</td><td>2.334</td><td>36.44</td><td>46.00</td><td>-9.56</td><td>26.58</td><td>9.66</td><td>0.20</td><td>Average</td></tr> <tr><td>12</td><td>2.334</td><td>38.97</td><td>56.00</td><td>-17.03</td><td>29.11</td><td>9.66</td><td>0.20</td><td>QP</td></tr> </tbody> </table>					Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Remark	1	0.393	38.15	47.99	-9.84	28.43	9.64	0.08	Average	2	0.393	43.03	57.99	-14.96	33.31	9.64	0.08	QP	3	0.502	41.83	46.00	-4.17	32.10	9.64	0.09	Average	4	0.502	44.56	56.00	-11.44	34.83	9.64	0.09	QP	5*	0.564	42.96	46.00	-3.04	33.22	9.64	0.10	Average	6	0.564	47.59	56.00	-8.41	37.85	9.64	0.10	QP	7	1.552	33.63	46.00	-12.37	23.81	9.66	0.16	Average	8	1.552	39.60	56.00	-16.40	29.78	9.66	0.16	QP	9	1.949	39.67	46.00	-6.33	29.83	9.66	0.18	Average	10	1.949	41.08	56.00	-14.92	31.24	9.66	0.18	QP	11	2.334	36.44	46.00	-9.56	26.58	9.66	0.20	Average	12	2.334	38.97	56.00	-17.03	29.11	9.66	0.20	QP
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<b>Modulation Mode</b>	BT LE-2Mbps	<b>Test Freq. (MHz)</b>	2402
<b>Power Phase</b>	Neutral		

Test by : Joe Liao      Temperature: 22°C      Humidity: 68%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Remark
1	0.393	38.94	47.99	-9.05	29.19	9.67	0.08	Average
2	0.393	43.36	57.99	-14.63	33.61	9.67	0.08	QP
3	0.510	41.91	46.00	-4.09	32.15	9.67	0.09	Average
4	0.510	44.64	56.00	-11.36	34.88	9.67	0.09	QP
5*	0.570	42.75	46.00	-3.25	32.98	9.67	0.10	Average
6	0.570	45.71	56.00	-10.29	35.94	9.67	0.10	QP
7	1.560	40.20	46.00	-5.80	30.35	9.69	0.16	Average
8	1.560	41.76	56.00	-14.24	31.91	9.69	0.16	QP
9	1.949	39.87	46.00	-6.13	30.00	9.69	0.18	Average
10	1.949	41.23	56.00	-14.77	31.36	9.69	0.18	QP
11	2.334	30.69	46.00	-15.31	20.80	9.69	0.20	Average
12	2.334	35.86	56.00	-20.14	25.97	9.69	0.20	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

## 3.2 Emissions in Restricted Frequency Bands

### 3.2.1 Limit of Emissions in Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

**Note 1:**  
Quasi-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

**Note 2:**  
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

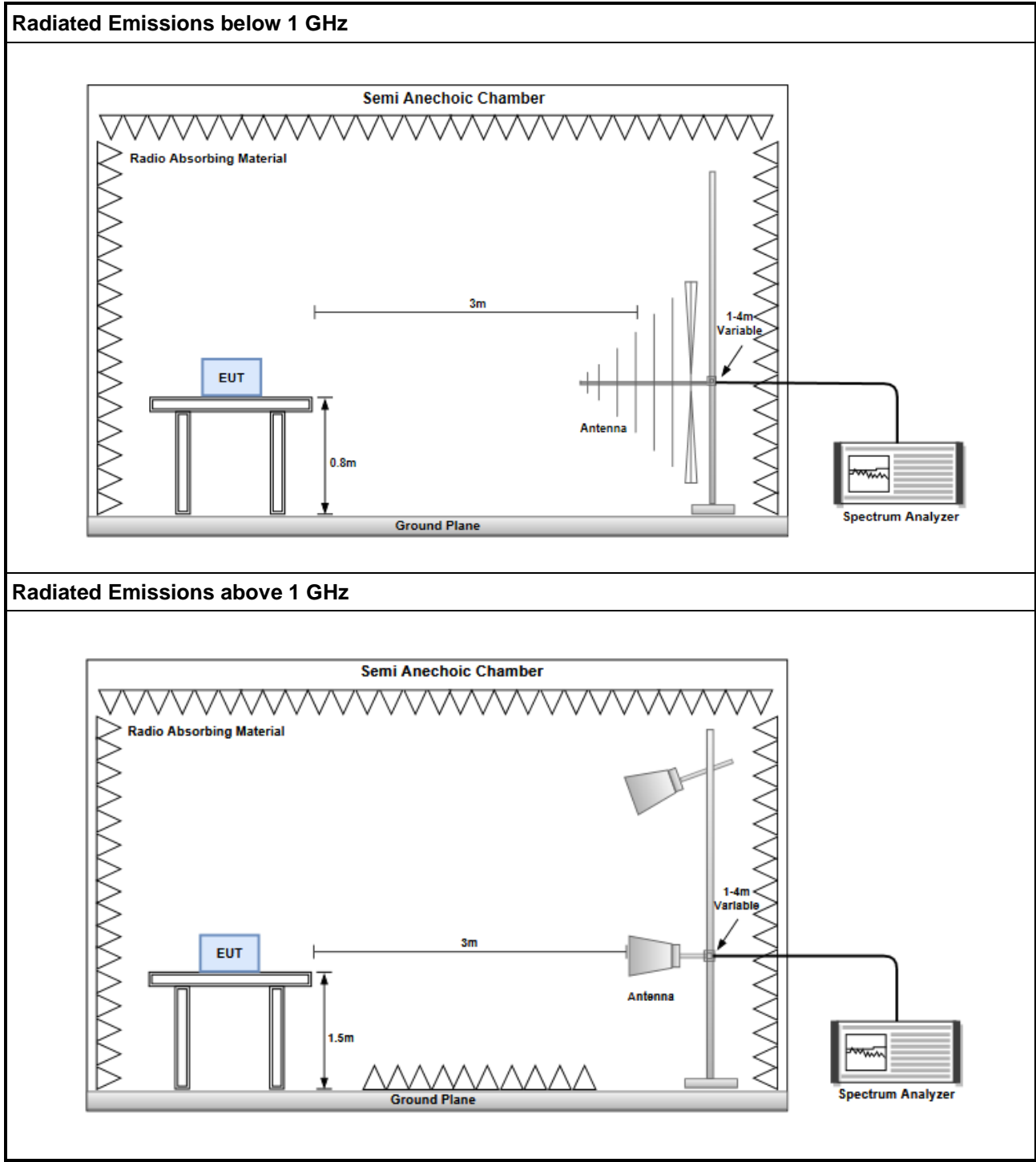
### 3.2.2 Test Procedures

1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

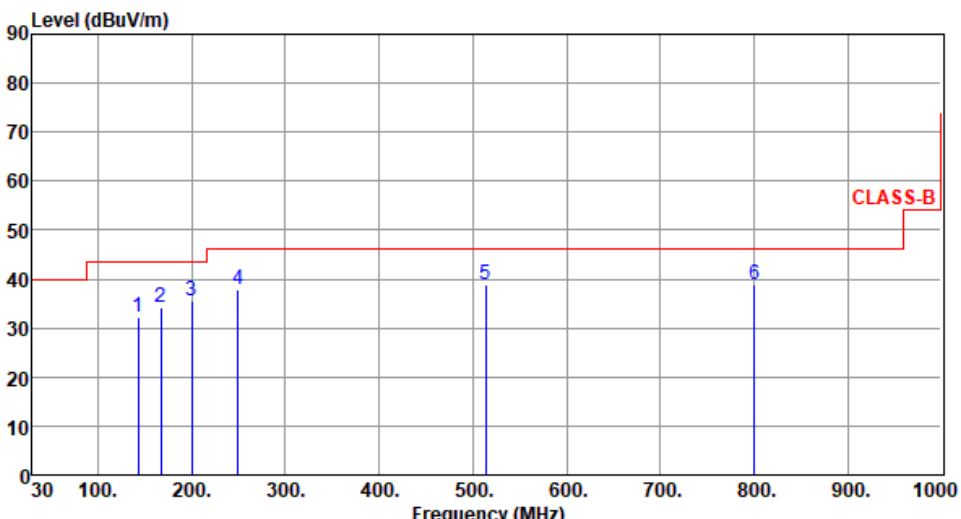
**Note:**

1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

### 3.2.3 Test Setup



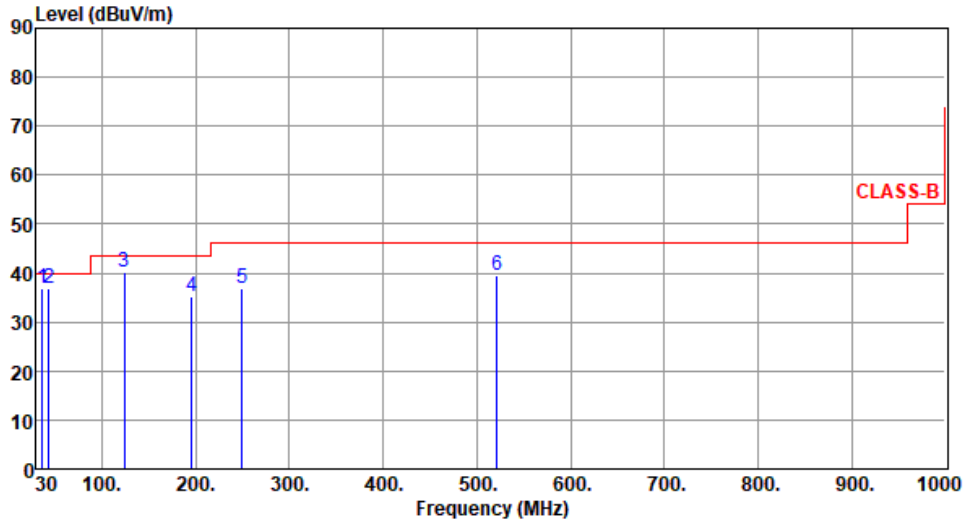
### 3.2.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

<b>Modulation</b>	BT-LE (2Mbps)	<b>Test Freq. (MHz)</b>	2402																																																																
<b>Polarization</b>	Horizontal																																																																		
Test By : Akun Chung      Temperature(°C): 24      Humidity(%): 67																																																																			
 <p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (30 to 1000). A red line represents the Class-B limit, which is constant at 40 dBuV/m until 100 MHz, then steps up to 45 dBuV/m at 200 MHz, and finally to 55 dBuV/m at 900 MHz. Six blue vertical lines indicate measured peaks at 142.52 MHz, 166.77 MHz, 199.75 MHz, 249.22 MHz, 514.03 MHz, and 800.18 MHz.</p>																																																																			
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																			



<b>Modulation</b>	BT-LE (2Mbps)	<b>Test Freq. (MHz)</b>	2402
<b>Polarization</b>	Vertical		

Test By :Akun Chung      Temperature(°C):24      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	36.79	36.93	40.00	-3.07	46.09	-9.16	QP	100	216
2	43.58	36.91	40.00	-3.09	45.46	-8.55	QP	100	145
3	124.09	40.33	43.50	-3.17	50.62	-10.29	QP	100	155
4	195.87	35.10	43.50	-8.40	46.88	-11.78	Peak	---	---
5	249.22	37.02	46.00	-8.98	47.10	-10.08	Peak	---	---
6	521.79	39.42	46.00	-6.58	42.35	-2.93	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

## 4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

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Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

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==END==