

FCC C2PC Test Report

FCC ID : 2ALXJ-MTW200
Equipment : Meeting Owls 3
Model No. : MTW300
Brand Name : OWLLabs™
Applicant : Owl Labs Inc
Address : 33-1/2 Union Sq
Somerville, MA 02143 United States Of America
Standard : 47 CFR FCC Part 15.247
Received Date : Dec. 27, 2021
Tested Date : Jan. 10 ~ Jan. 12, 2022

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 shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR971702-08AC	Rev. 01	Initial issue	Jan. 25, 2022

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 5.836MHz 51.12 (Margin -8.88dB) - QP	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 2390 MHz 52.85 (Margin -1.15dB) - AV	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 the original project no. FR971702AC. The modification is concerned with following item:

- ✧ Adding a non-RF function PCB
- ✧ Non-RF function of main PCB is modified.
- ✧ Housing is modified to cover new non-RF function PCB.
- ✧ USB connector is changed.

Therefore, conducted emissions & radiated emission tests had been re-tested.

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
2400-2483.5	b	2412-2462	1-11 [11]	2	1-11 Mbps
2400-2483.5	g	2412-2462	1-11 [11]	2	6-54 Mbps
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	2	MCS 0-15
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	2	MCS 0-15

Note 1: RF output power specifies that Maximum Peak Conducted Output Power.
 Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
 Note 3: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

1.1.2 Antenna Details

Ant. No.	Model	Type	Gain (dBi)	Connector	Remark
1	SRF2W012-150	PCB	3.0	MHF IPEX	---

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from adapter
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1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	AC Adapter	Brand: HOLOTO Model: ADS-40SI-12-2 12036E Power Rating: I/P: 100-240Vac, 50/60Hz, 1A Max O/P: 12Vdc, 3A Power Line: DC 1.49m non-shielded without core AC 2.13m non-shielded without core
2	Type C Cable	1.8m non-shielded without core

1.1.5 Channel List

Frequency band (MHz)		2400~2483.5	
802.11 b / g / n HT20		802.11n HT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447	---	---
9	2452	---	---
10	2457	---	---
11	2462	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	QRCT, Version: 3.0.298.0		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11b	100.00	0.00
	HT20	98.89	0.05
	HT40	96.09	0.17

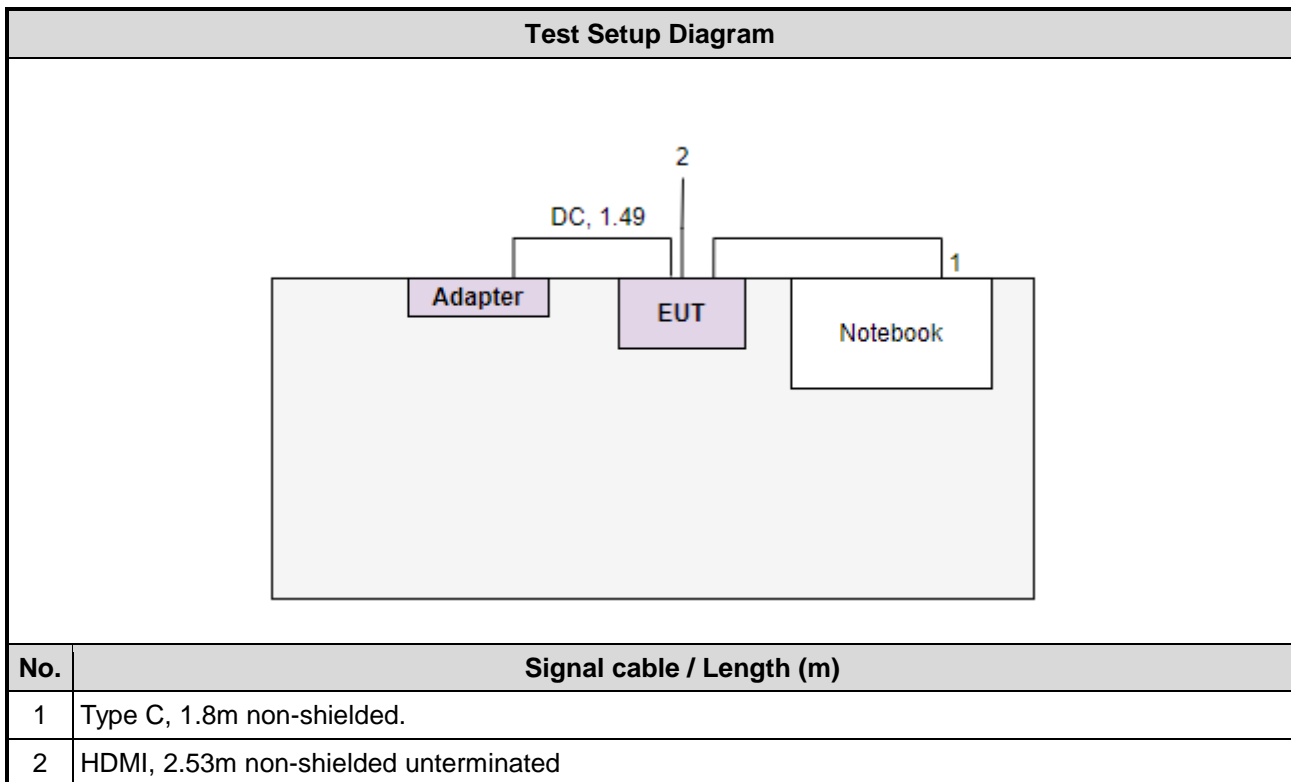
1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11b	2412	13.5
HT20	2437	18
HT40	2422	14

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5470	DoC	Provided by applicant.
2	HDMI Cable	---	---	---	Provided by applicant.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Jan. 12, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
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 MESS-ELEKTRONIK	NSLK 8127	8127477	Feb. 25, 2021	Feb. 24, 2022
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
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.

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Jan. 10, 2022				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
Spectrum Analyzer	R&S	FSV40	101063	Apr. 19, 2021	Apr. 18, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 03, 2021	Dec. 02, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 04, 2021	Nov. 03, 2022
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 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
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	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

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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	±2.92 dB
Radiated emission ≤ 1GHz	±3.41 dB
Radiated emission > 1GHz	±4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH01-WS
Address of Test Site	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	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	HT20	2437	MCS 0	---
Radiated Emissions ≤ 1 GHz	HT20	2437	MCS 0	---
Radiated Emissions > 1 GHz	11b HT40	2412 2422	1 Mbps MCS 0	---

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

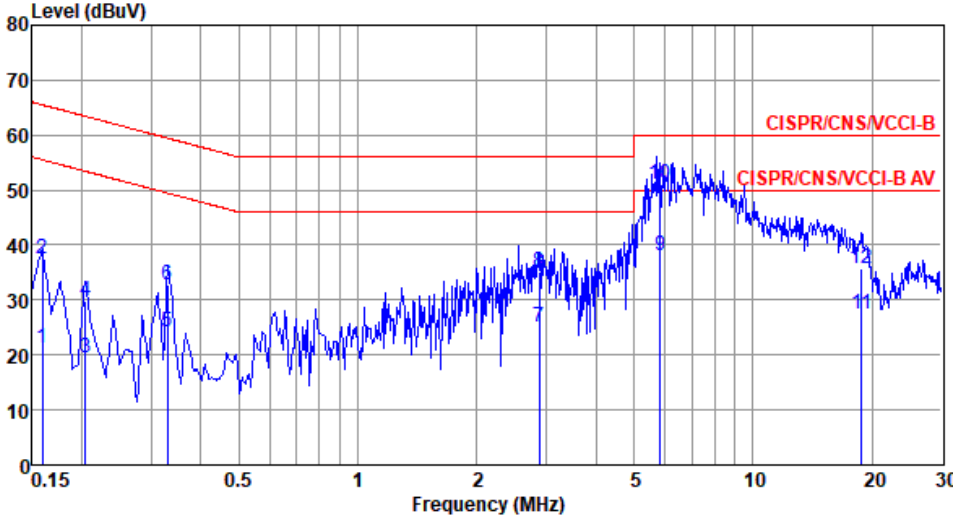
1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω 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



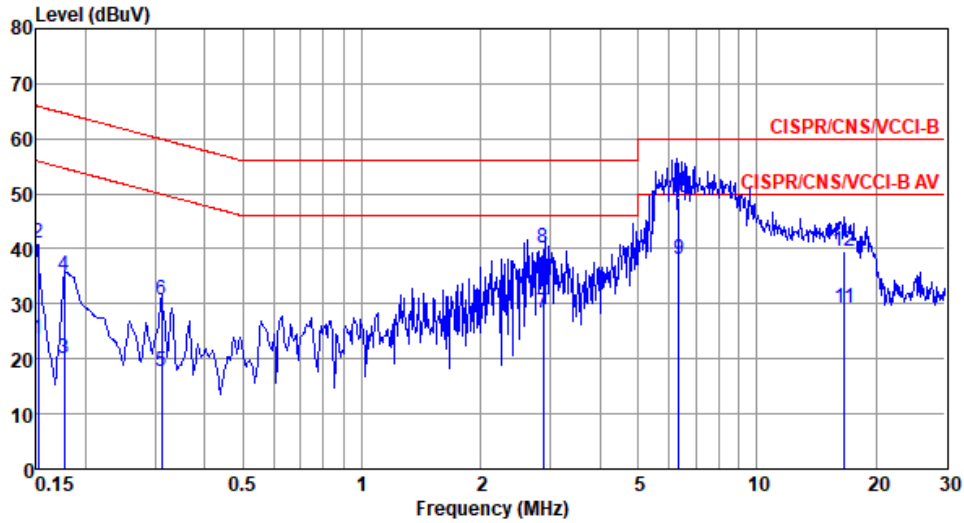
- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

Modulation	HT20	Test Freq. (MHz)	2437																																																																																																																																		
Power Phase	Line																																																																																																																																				
<p>Test by : Joe Liao Temperature: 14°C Humidity: 61%</p>																																																																																																																																					
																																																																																																																																					
<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>Aux dB</th> <th>Remark</th> </tr> </thead> <tbody> <tr><td>1</td><td>0.159</td><td>21.19</td><td>55.52</td><td>-34.33</td><td>11.45</td><td>9.66</td><td>0.08</td><td>0.00</td><td>Average</td></tr> <tr><td>2</td><td>0.159</td><td>37.43</td><td>65.52</td><td>-28.09</td><td>27.69</td><td>9.66</td><td>0.08</td><td>0.00</td><td>QP</td></tr> <tr><td>3</td><td>0.204</td><td>19.35</td><td>53.45</td><td>-34.10</td><td>9.62</td><td>9.65</td><td>0.08</td><td>0.00</td><td>Average</td></tr> <tr><td>4</td><td>0.204</td><td>29.73</td><td>63.45</td><td>-33.72</td><td>20.00</td><td>9.65</td><td>0.08</td><td>0.00</td><td>QP</td></tr> <tr><td>5</td><td>0.330</td><td>24.08</td><td>49.44</td><td>-25.36</td><td>14.36</td><td>9.64</td><td>0.08</td><td>0.00</td><td>Average</td></tr> <tr><td>6</td><td>0.330</td><td>32.87</td><td>59.44</td><td>-26.57</td><td>23.15</td><td>9.64</td><td>0.08</td><td>0.00</td><td>QP</td></tr> <tr><td>7</td><td>2.884</td><td>25.10</td><td>46.00</td><td>-20.90</td><td>15.22</td><td>9.67</td><td>0.21</td><td>0.00</td><td>Average</td></tr> <tr><td>8</td><td>2.884</td><td>35.28</td><td>56.00</td><td>-20.72</td><td>25.40</td><td>9.67</td><td>0.21</td><td>0.00</td><td>QP</td></tr> <tr><td>9</td><td>5.836</td><td>37.96</td><td>50.00</td><td>-12.04</td><td>27.96</td><td>9.69</td><td>0.31</td><td>0.00</td><td>Average</td></tr> <tr><td>10*</td><td>5.836</td><td>51.12</td><td>60.00</td><td>-8.88</td><td>41.12</td><td>9.69</td><td>0.31</td><td>0.00</td><td>QP</td></tr> <tr><td>11</td><td>18.820</td><td>27.48</td><td>50.00</td><td>-22.52</td><td>17.16</td><td>9.68</td><td>0.64</td><td>0.00</td><td>Average</td></tr> <tr><td>12</td><td>18.820</td><td>35.71</td><td>60.00</td><td>-24.29</td><td>25.39</td><td>9.68</td><td>0.64</td><td>0.00</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	Aux dB	Remark	1	0.159	21.19	55.52	-34.33	11.45	9.66	0.08	0.00	Average	2	0.159	37.43	65.52	-28.09	27.69	9.66	0.08	0.00	QP	3	0.204	19.35	53.45	-34.10	9.62	9.65	0.08	0.00	Average	4	0.204	29.73	63.45	-33.72	20.00	9.65	0.08	0.00	QP	5	0.330	24.08	49.44	-25.36	14.36	9.64	0.08	0.00	Average	6	0.330	32.87	59.44	-26.57	23.15	9.64	0.08	0.00	QP	7	2.884	25.10	46.00	-20.90	15.22	9.67	0.21	0.00	Average	8	2.884	35.28	56.00	-20.72	25.40	9.67	0.21	0.00	QP	9	5.836	37.96	50.00	-12.04	27.96	9.69	0.31	0.00	Average	10*	5.836	51.12	60.00	-8.88	41.12	9.69	0.31	0.00	QP	11	18.820	27.48	50.00	-22.52	17.16	9.68	0.64	0.00	Average	12	18.820	35.71	60.00	-24.29	25.39	9.68	0.64	0.00	QP
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<p>Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB). 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).</p>																																																																																																																																					

Modulation	HT20	Test Freq. (MHz)	2437
Power Phase	Neutral		

Test by : Joe Liao Temperature: 14°C Humidity: 61%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.152	23.67	55.91	-32.24	13.90	9.69	0.08	0.00	Average
2	0.152	41.16	65.91	-24.75	31.39	9.69	0.08	0.00	QP
3	0.177	19.93	54.64	-34.71	10.17	9.68	0.08	0.00	Average
4	0.177	35.26	64.64	-29.38	25.50	9.68	0.08	0.00	QP
5	0.312	17.78	49.93	-32.15	8.03	9.67	0.08	0.00	Average
6	0.312	30.64	59.93	-29.29	20.89	9.67	0.08	0.00	QP
7	2.883	28.27	46.00	-17.73	18.36	9.70	0.21	0.00	Average
8	2.883	40.12	56.00	-15.88	30.21	9.70	0.21	0.00	QP
9	6.348	38.15	50.00	-11.85	28.09	9.73	0.33	0.00	Average
10*	6.348	49.41	60.00	-10.59	39.35	9.73	0.33	0.00	QP
11	16.661	29.27	50.00	-20.73	18.86	9.82	0.59	0.00	Average
12	16.661	39.61	60.00	-20.39	29.20	9.82	0.59	0.00	QP

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

3.2 Unwanted Emissions into Restricted Frequency Bands

3.2.1 Limit of Unwanted Emissions into 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

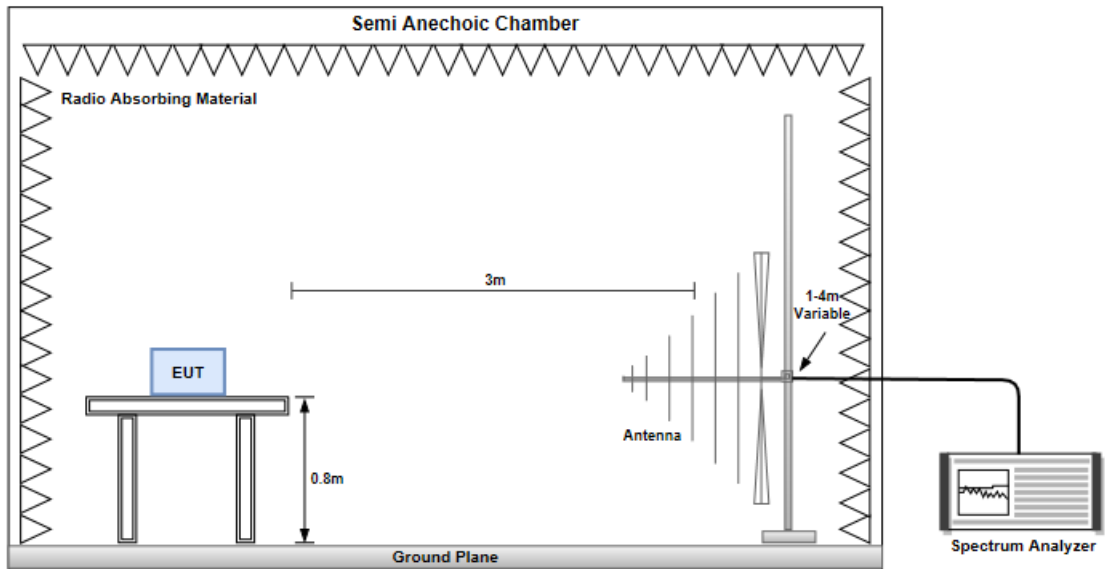
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

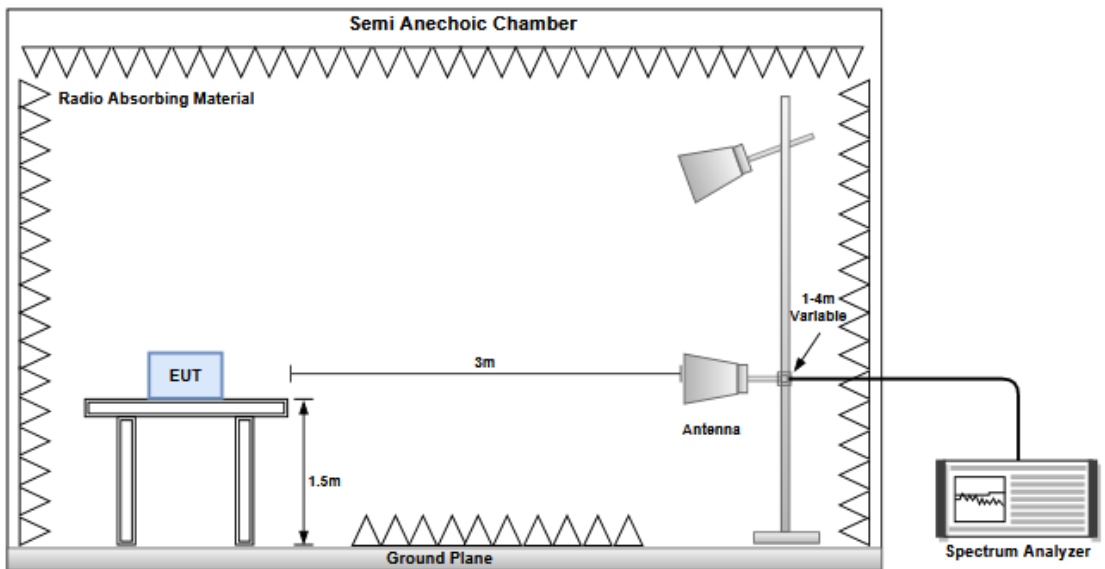
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.2.3 Test Setup

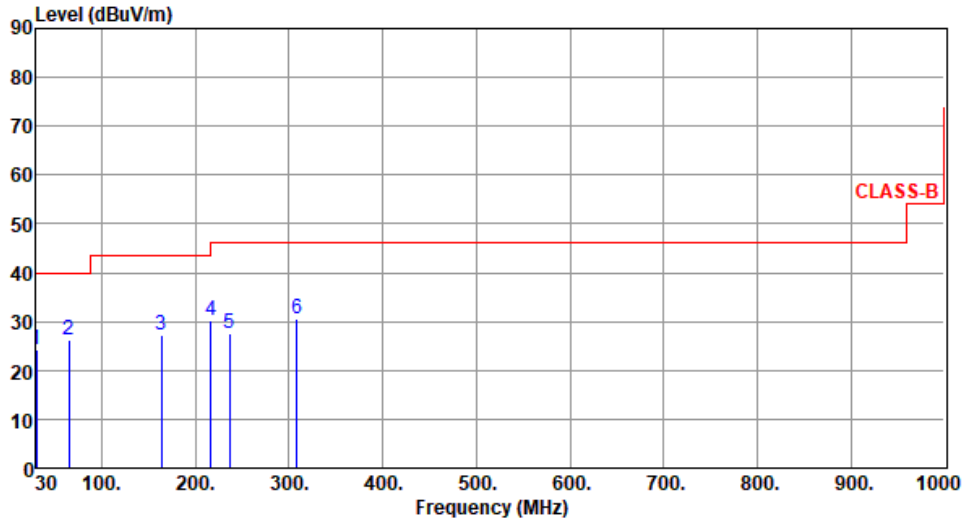
Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



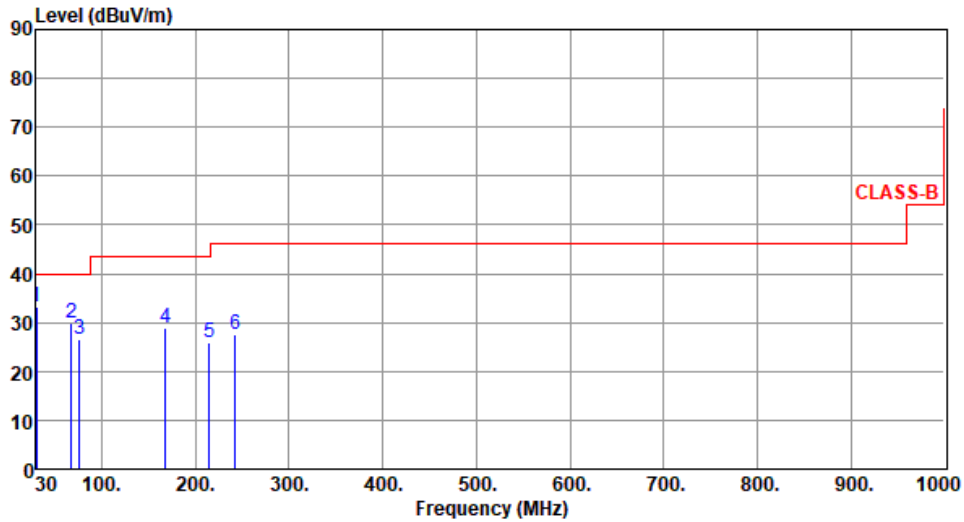
3.2.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	HT20	Test Freq. (MHz)	2437						
Polarization	Horizontal								
Test By : Akun Chung Temperature(°C): 23 Humidity(%): 67									
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High cm	Turn Table deg
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m			
1	30.00	24.09	40.00	-15.91	34.03	-9.94	Peak	---	---
2	64.92	26.14	40.00	-13.86	35.96	-9.82	Peak	---	---
3	163.86	27.07	43.50	-16.43	35.84	-8.77	Peak	---	---
4	216.24	30.18	46.00	-15.82	42.12	-11.94	Peak	---	---
5	236.61	27.60	46.00	-18.40	38.33	-10.73	Peak	---	---
6	308.39	30.67	46.00	-15.33	38.53	-7.86	Peak	---	---

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

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical		

Test By :Akun Chung Temperature(°C):23 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	30.00	33.25	40.00	-6.75	43.19	-9.94	Peak	---	---
2	67.83	30.01	40.00	-9.99	40.17	-10.16	Peak	---	---
3	76.56	26.46	40.00	-13.54	38.90	-12.44	Peak	---	---
4	167.74	28.79	43.50	-14.71	37.75	-8.96	Peak	---	---
5	215.27	26.01	43.50	-17.49	37.95	-11.94	Peak	---	---
6	242.43	27.58	46.00	-18.42	37.86	-10.28	Peak	---	---

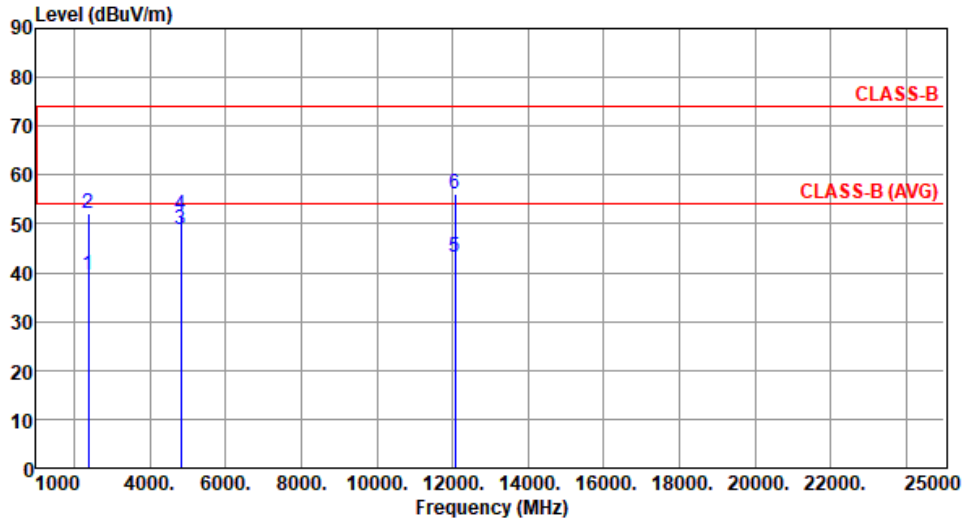
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*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.

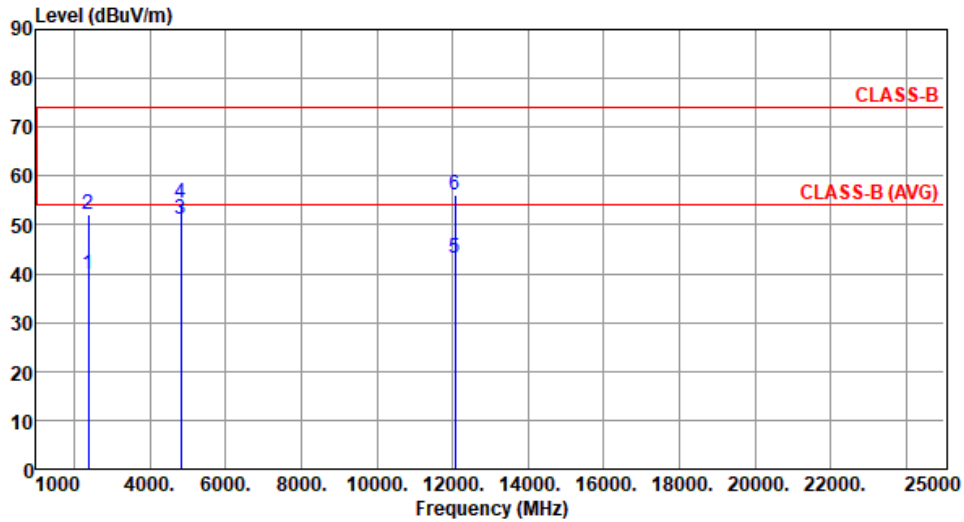
3.2.5 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation	11b	Test Freq. (MHz)	2412						
Polarization	Horizontal								
Test By : Akun Chung Temperature(°C): 23 Humidity(%): 67									
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	39.47	54.00	-14.53	42.22	-2.75	Average	100	21
2	2390.00	52.13	74.00	-21.87	54.88	-2.75	Peak	100	21
3	4824.00	48.95	54.00	-5.05	44.81	4.14	Average	239	62
4	4824.00	51.81	74.00	-22.19	47.67	4.14	Peak	239	62
5	12060.00	43.11	54.00	-10.89	29.32	13.79	Average	100	65
6	12060.00	56.26	74.00	-17.74	42.47	13.79	Peak	100	65

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical		

Test By : Akun Chung Temperature(°C): 23 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	2390.00	39.76	54.00	-14.24	42.51	-2.75	Average	168	106
2	2390.00	52.13	74.00	-21.87	54.88	-2.75	Peak	168	106
3	4824.00	51.15	54.00	-2.85	47.01	4.14	Average	381	130
4	4824.00	54.42	74.00	-19.58	50.28	4.14	Peak	381	130
5	12060.00	43.32	54.00	-10.68	29.53	13.79	Average	100	115
6	12060.00	56.28	74.00	-17.72	42.49	13.79	Peak	100	115

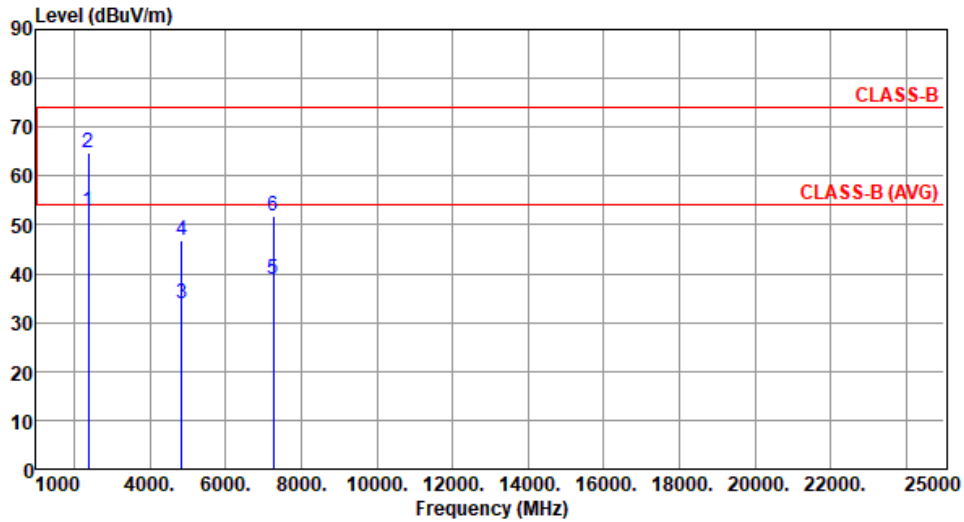
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal		

Test By : Akun Chung Temperature(°C): 23 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	2390.00	52.85	54.00	-1.15	55.60	-2.75	Average	250	27
2	2390.00	64.59	74.00	-9.41	67.34	-2.75	Peak	250	27
3	4844.00	33.72	54.00	-20.28	29.56	4.16	Average	100	71
4	4844.00	46.81	74.00	-27.19	42.65	4.16	Peak	100	71
5	7266.00	38.75	54.00	-15.25	29.52	9.23	Average	100	76
6	7266.00	51.85	74.00	-22.15	42.62	9.23	Peak	100	76

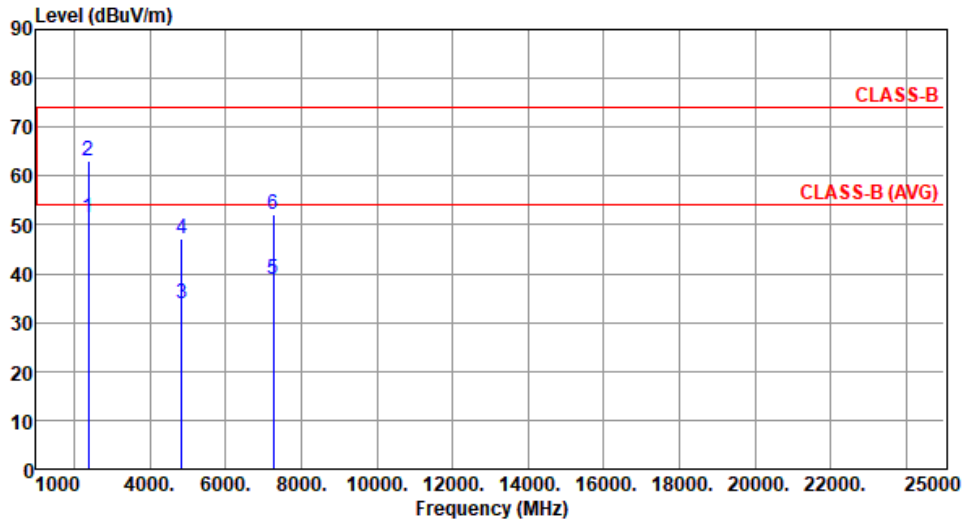
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical		

Test By : Akun Chung Temperature(°C): 23 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	2390.00	51.47	54.00	-2.53	54.22	-2.75	Average	101	299
2	2390.00	63.21	74.00	-10.79	65.96	-2.75	Peak	101	299
3	4844.00	33.84	54.00	-20.16	29.68	4.16	Average	100	139
4	4844.00	47.14	74.00	-26.86	42.98	4.16	Peak	100	139
5	7266.00	38.90	54.00	-15.10	29.67	9.23	Average	100	135
6	7266.00	52.10	74.00	-21.90	42.87	9.23	Peak	100	135

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

*Factor includes antenna factor , cable loss and amplifier gain

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

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.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

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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