

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 15.407
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 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

Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Local Support Equipment List	8
1.3	Test Setup Chart	8
1.4	The Equipment List	9
1.5	Test Standards	10
1.6	Reference Guidance	10
1.7	Deviation from Test Standard and Measurement Procedure.....	10
1.8	Measurement Uncertainty	10
2	TEST CONFIGURATION	11
2.1	Testing Facility.....	11
2.2	The Worst Test Modes and Channel Details	11
3	TRANSMITTER TEST RESULTS.....	12
3.1	Conducted Emissions.....	12
3.2	Transmitter Radiated and Band Edge Emissions	17
4	TEST LABORATORY INFORMATION	28

Release Record

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

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 6.121MHz 49.55 (Margin -10.45dB) - QP	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 5459.00MHz 52.04 (Margin -1.96dB) – 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. FR971702AN. 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
5150-5250 5725-5850	a	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2	6-54 Mbps
5150-5250 5725-5850	n (HT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2	MCS 0-15
5150-5250 5725-5850	n (HT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	2	MCS 0-15
5150-5250 5725-5850	ac (VHT20)	5180-5240 5745-5825	36-48 [4] 149-165 [5]	2	MCS 0-9
5150-5250 5725-5850	ac (VHT40)	5190-5230 5755-5795	38-46 [2] 151-159 [2]	2	MCS 0-9
5150-5250 5725-5850	ac (VHT80)	5210 5775	42 [1] 155 [1]	2	MCS 0-9

Note 1: RF output power specifies that Maximum Conducted Output Power.
Note 2: 802.11a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.

1.1.2 Antenna Details

Ant. No.	Model	Type	Connector	Gain (dBi)	Remarks
1	SRF2W012-150	PCB	MHF IPEX	4.0	---

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

802.11a / n HT20 / ac VHT20		802.11n HT40 / ac VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	151	5755
48	5240	159	5795
149	5745	802.11ac VHT80	
153	5765	42	5210
157	5785	155	5775
161	5805	-	-
165	5825	-	-

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)
	11a	99.44	0.02
	VHT20	99.40	0.03
	VHT40	97.64	0.10

1.1.7 Power Index of Test Tool

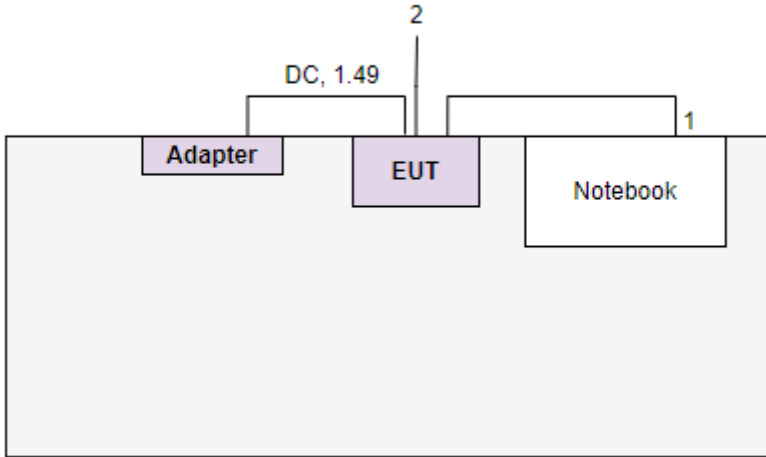
For Frequency band 5150-5250 MHz		
Modulation Mode	Test Frequency (MHz)	Power Index
11a	5200	18.5
VHT40	5230	12

For Frequency band 5725~5850 MHz		
Modulation Mode	Test Frequency (MHz)	Power Index
VHT20	5825	19.0
VHT40	5755	15

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

Test Setup Diagram	
	
No.	Signal cable / Length (m)
1	Type C, 1.8m non-shielded.
2	HDMI, 2.53m non-shielded unterminated

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 15.407
ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
FCC KDB 789033 D02 General UNII Test Procedures New Rules 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 ≤ 1 GHz	± 3.41 dB
Radiated emission > 1 GHz	± 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
- ISSED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

For Frequency band 5150-5250 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	11a	5200	6 Mbps	---
Radiated Emissions ≤1GHz	11a	5200	6 Mbps	---
Radiated Emissions >1GHz	VHT40	5230	MCS 0	---
For Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	VHT20	5825	MCS 0	---
Radiated Emissions ≤1GHz	VHT20	5825	MCS 0	---
Radiated Emissions >1GHz	VHT40	5755	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.

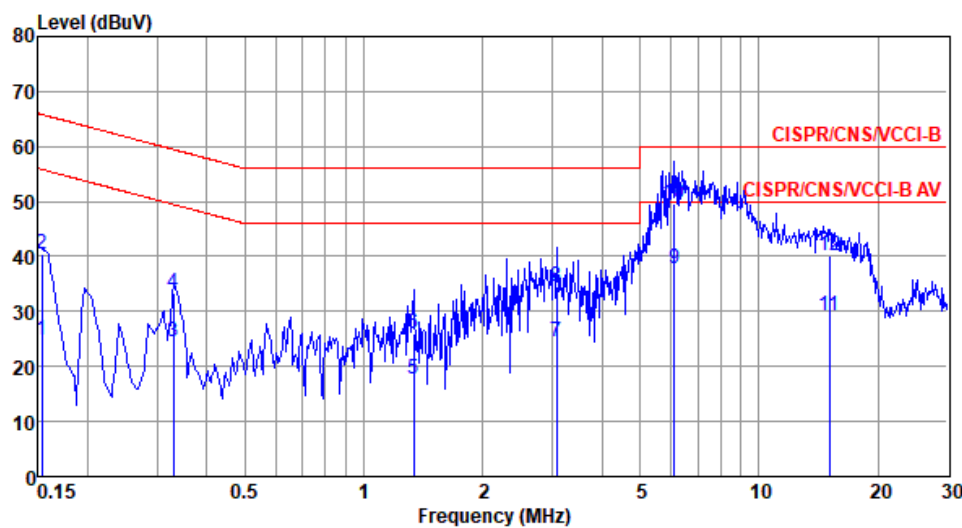
3.1.3 Test Setup

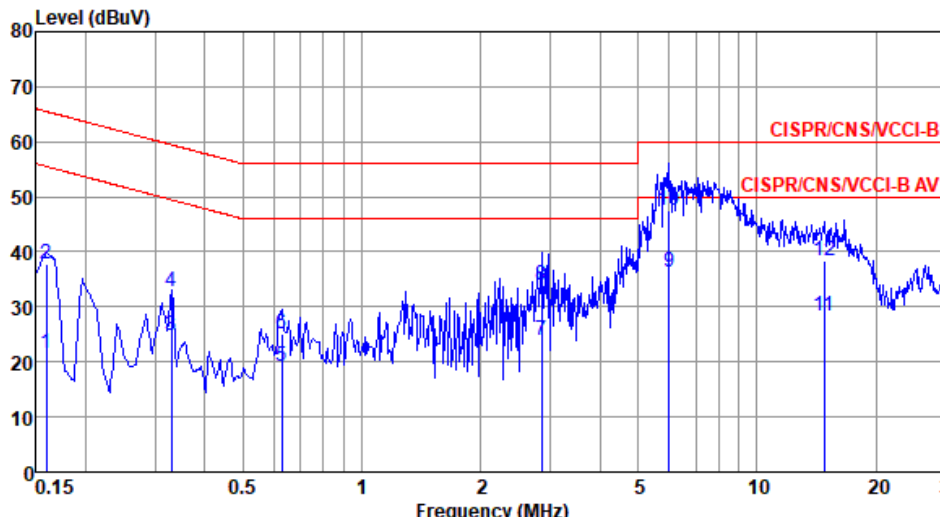


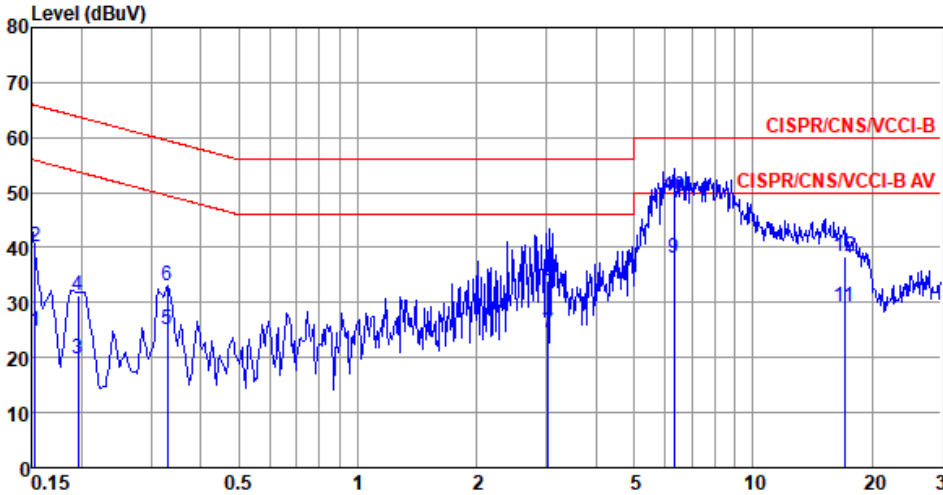
- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

Modulation	11a	Test Freq. (MHz)	5200																																																																																																																																		
Power Phase	Line																																																																																																																																				
Test by : Joe Liao Temperature: 14°C Humidity: 61%																																																																																																																																					
<div><div><div>Level (dBuV)</div><div></div><div>Frequency (MHz)</div></div><table><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>0.177</td><td>19.13</td><td>54.64</td><td>-35.51</td><td>9.40</td><td>9.65</td><td>0.08</td><td>0.00</td><td>Average</td></tr><tr><td>2</td><td>0.177</td><td>35.20</td><td>64.64</td><td>-29.44</td><td>25.47</td><td>9.65</td><td>0.08</td><td>0.00</td><td>QP</td></tr><tr><td>3</td><td>0.312</td><td>20.67</td><td>49.93</td><td>-29.26</td><td>10.95</td><td>9.64</td><td>0.08</td><td>0.00</td><td>Average</td></tr><tr><td>4</td><td>0.312</td><td>30.58</td><td>59.93</td><td>-29.35</td><td>20.86</td><td>9.64</td><td>0.08</td><td>0.00</td><td>QP</td></tr><tr><td>5</td><td>0.654</td><td>13.79</td><td>46.00</td><td>-32.21</td><td>4.02</td><td>9.65</td><td>0.12</td><td>0.00</td><td>Average</td></tr><tr><td>6</td><td>0.654</td><td>25.58</td><td>56.00</td><td>-30.42</td><td>15.81</td><td>9.65</td><td>0.12</td><td>0.00</td><td>QP</td></tr><tr><td>7</td><td>2.900</td><td>24.77</td><td>46.00</td><td>-21.23</td><td>14.89</td><td>9.67</td><td>0.21</td><td>0.00</td><td>Average</td></tr><tr><td>8</td><td>2.900</td><td>38.40</td><td>56.00</td><td>-17.60</td><td>28.52</td><td>9.67</td><td>0.21</td><td>0.00</td><td>QP</td></tr><tr><td>9</td><td>6.252</td><td>37.74</td><td>50.00</td><td>-12.26</td><td>27.72</td><td>9.69</td><td>0.33</td><td>0.00</td><td>Average</td></tr><tr><td>10*</td><td>6.252</td><td>48.86</td><td>60.00</td><td>-11.14</td><td>38.84</td><td>9.69</td><td>0.33</td><td>0.00</td><td>QP</td></tr><tr><td>11</td><td>14.907</td><td>28.32</td><td>50.00</td><td>-21.68</td><td>18.07</td><td>9.69</td><td>0.56</td><td>0.00</td><td>Average</td></tr><tr><td>12</td><td>14.907</td><td>38.15</td><td>60.00</td><td>-21.85</td><td>27.90</td><td>9.69</td><td>0.56</td><td>0.00</td><td>QP</td></tr></tbody></table></div>					Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark	1	0.177	19.13	54.64	-35.51	9.40	9.65	0.08	0.00	Average	2	0.177	35.20	64.64	-29.44	25.47	9.65	0.08	0.00	QP	3	0.312	20.67	49.93	-29.26	10.95	9.64	0.08	0.00	Average	4	0.312	30.58	59.93	-29.35	20.86	9.64	0.08	0.00	QP	5	0.654	13.79	46.00	-32.21	4.02	9.65	0.12	0.00	Average	6	0.654	25.58	56.00	-30.42	15.81	9.65	0.12	0.00	QP	7	2.900	24.77	46.00	-21.23	14.89	9.67	0.21	0.00	Average	8	2.900	38.40	56.00	-17.60	28.52	9.67	0.21	0.00	QP	9	6.252	37.74	50.00	-12.26	27.72	9.69	0.33	0.00	Average	10*	6.252	48.86	60.00	-11.14	38.84	9.69	0.33	0.00	QP	11	14.907	28.32	50.00	-21.68	18.07	9.69	0.56	0.00	Average	12	14.907	38.15	60.00	-21.85	27.90	9.69	0.56	0.00	QP
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Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB). 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).																																																																																																																																					

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3.2 Transmitter Radiated and Band Edge Emissions

3.2.1 Limit of Transmitter Radiated and Band Edge Emissions

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:
Qusai-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.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.850 GHz	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

3.2.2 Test Procedures

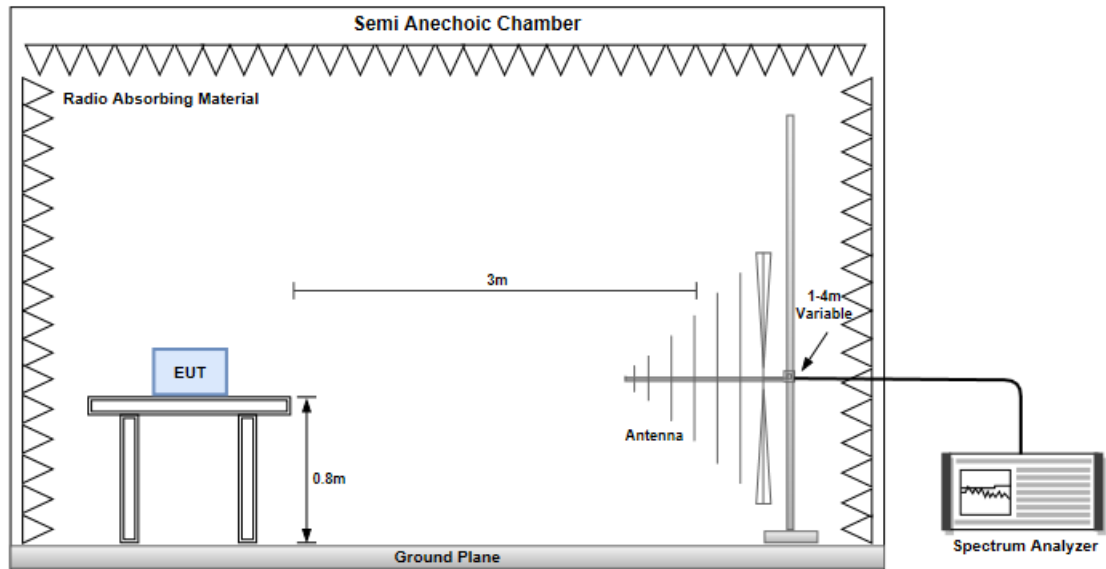
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

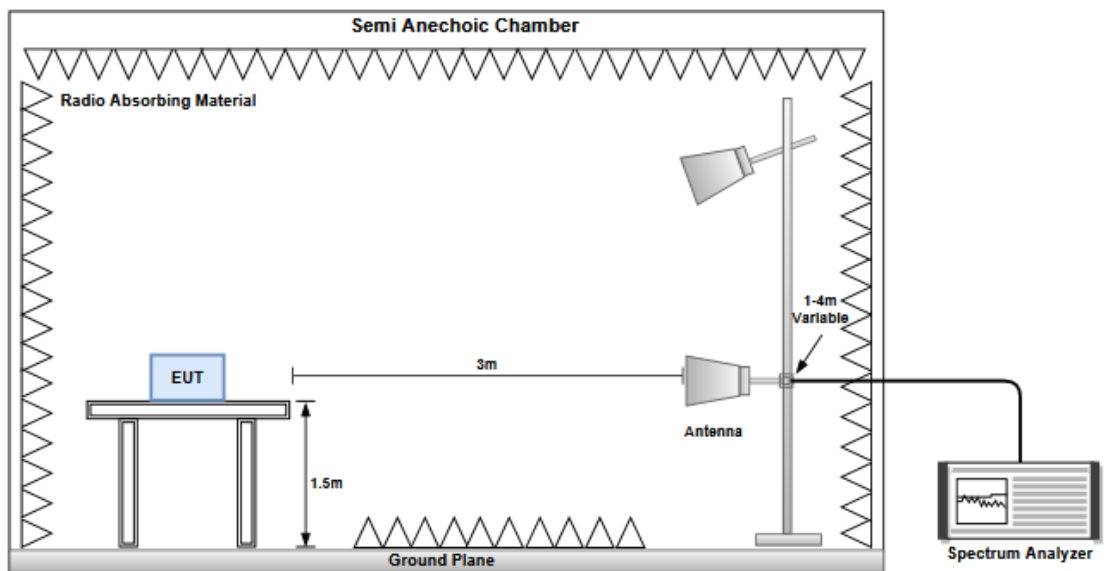
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 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	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):67			
<div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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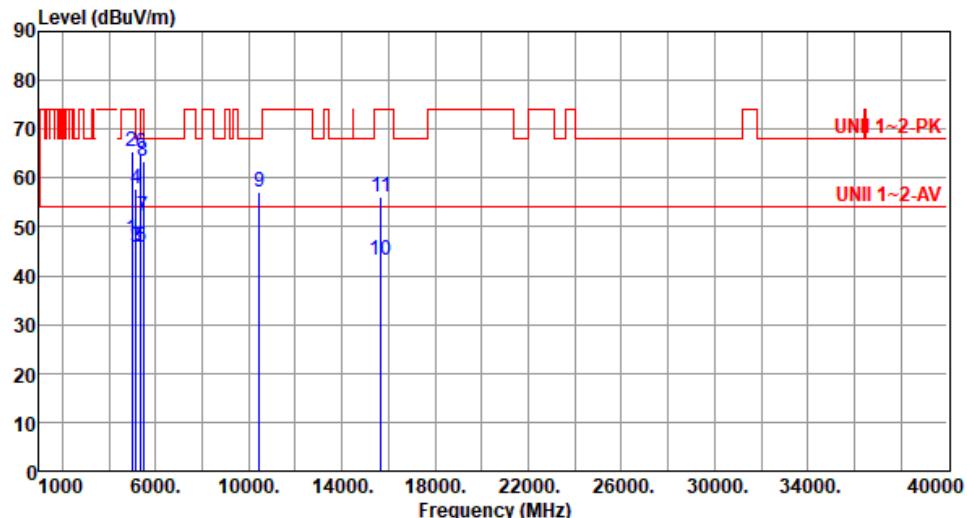
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		
Test By :Akun Chung Temperature(°C):23 Humidity(%):67			
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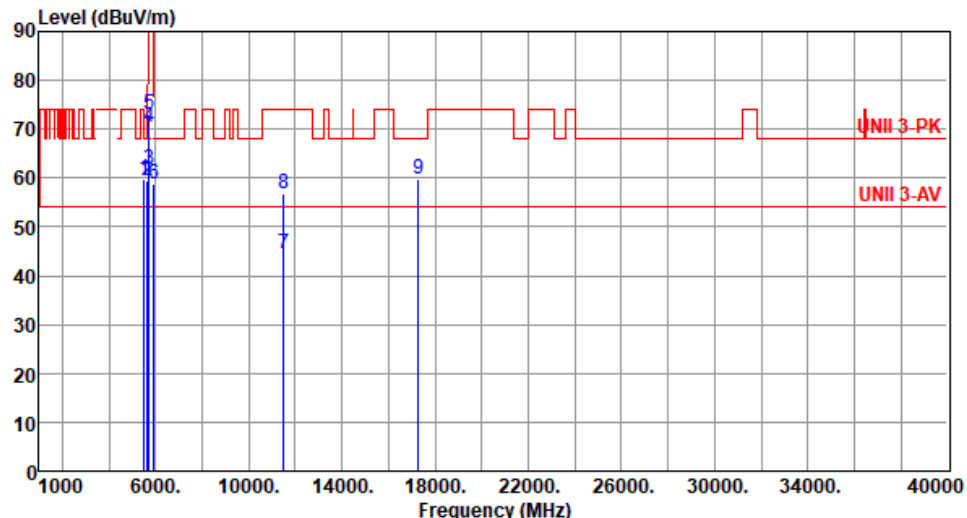
Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):67			
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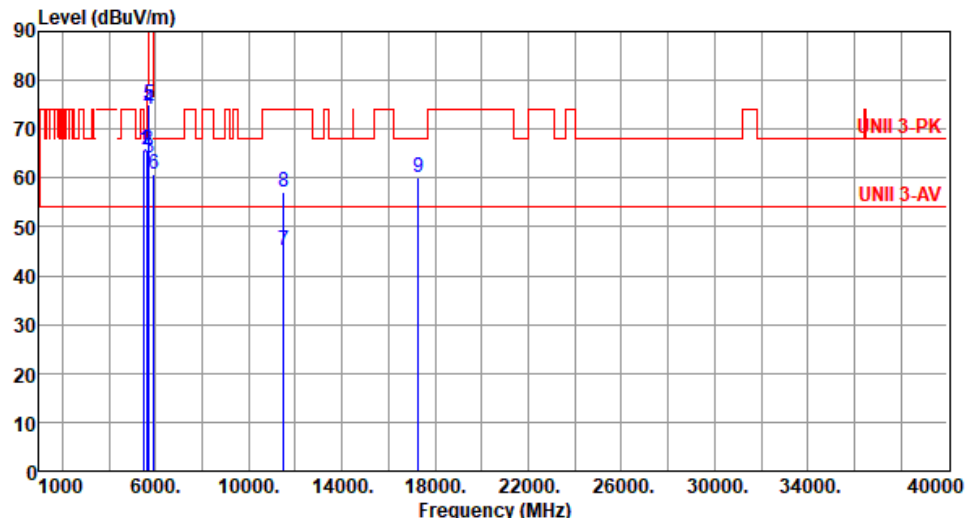
Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical		
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3.2.5 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Horizontal		
Test By :Akun Chung Temperature(°C):23 Humidity(%):67			
<div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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Modulation	VHT40	Test Freq. (MHz)	5230																																																																																																																								
Polarization	Vertical																																																																																																																										
Test By :Akun Chung Temperature(°C):23 Humidity(%):67																																																																																																																											
<div><div><div>Level (dBuV/m)</div><div></div></div><table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>4985.00</td><td>47.54</td><td>54.00</td><td>-6.46</td><td>43.49</td><td>4.05</td><td>Average</td><td>173</td><td>161</td></tr><tr><td>2</td><td>4985.00</td><td>65.43</td><td>74.00</td><td>-8.57</td><td>61.38</td><td>4.05</td><td>Peak</td><td>173</td><td>161</td></tr><tr><td>3</td><td>5150.00</td><td>45.98</td><td>54.00</td><td>-8.02</td><td>40.97</td><td>5.01</td><td>Average</td><td>215</td><td>168</td></tr><tr><td>4</td><td>5150.00</td><td>57.86</td><td>74.00</td><td>-16.14</td><td>52.85</td><td>5.01</td><td>Peak</td><td>215</td><td>168</td></tr><tr><td>5</td><td>5350.00</td><td>45.92</td><td>54.00</td><td>-8.08</td><td>41.50</td><td>4.42</td><td>Average</td><td>215</td><td>168</td></tr><tr><td>6</td><td>5350.00</td><td>65.08</td><td>74.00</td><td>-8.92</td><td>60.66</td><td>4.42</td><td>Peak</td><td>215</td><td>168</td></tr><tr><td>7</td><td>5459.00</td><td>52.04</td><td>54.00</td><td>-1.96</td><td>47.37</td><td>4.67</td><td>Average</td><td>212</td><td>165</td></tr><tr><td>8</td><td>5459.00</td><td>63.33</td><td>74.00</td><td>-10.67</td><td>58.66</td><td>4.67</td><td>Peak</td><td>212</td><td>165</td></tr><tr><td>9</td><td>10460.00</td><td>57.12</td><td>68.20</td><td>-11.08</td><td>42.69</td><td>14.43</td><td>Peak</td><td>100</td><td>109</td></tr><tr><td>10</td><td>15690.00</td><td>43.06</td><td>54.00</td><td>-10.94</td><td>29.66</td><td>13.40</td><td>Average</td><td>100</td><td>105</td></tr><tr><td>11</td><td>15690.00</td><td>56.20</td><td>74.00</td><td>-17.80</td><td>42.80</td><td>13.40</td><td>Peak</td><td>100</td><td>105</td></tr></table></div>					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	4985.00	47.54	54.00	-6.46	43.49	4.05	Average	173	161	2	4985.00	65.43	74.00	-8.57	61.38	4.05	Peak	173	161	3	5150.00	45.98	54.00	-8.02	40.97	5.01	Average	215	168	4	5150.00	57.86	74.00	-16.14	52.85	5.01	Peak	215	168	5	5350.00	45.92	54.00	-8.08	41.50	4.42	Average	215	168	6	5350.00	65.08	74.00	-8.92	60.66	4.42	Peak	215	168	7	5459.00	52.04	54.00	-1.96	47.37	4.67	Average	212	165	8	5459.00	63.33	74.00	-10.67	58.66	4.67	Peak	212	165	9	10460.00	57.12	68.20	-11.08	42.69	14.43	Peak	100	109	10	15690.00	43.06	54.00	-10.94	29.66	13.40	Average	100	105	11	15690.00	56.20	74.00	-17.80	42.80	13.40	Peak	100	105
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																																																		
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3	5150.00	45.98	54.00	-8.02	40.97	5.01	Average	215	168																																																																																																																		
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5	5350.00	45.92	54.00	-8.08	41.50	4.42	Average	215	168																																																																																																																		
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11	15690.00	56.20	74.00	-17.80	42.80	13.40	Peak	100	105																																																																																																																		
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	VHT40	Test Freq. (MHz)	5755																																																																																																				
Polarization	Horizontal																																																																																																						
Test By :Akun Chung Temperature(°C):23 Humidity(%):67																																																																																																							
<div><div><div>Level (dBuV/m)</div><div></div><div>Frequency (MHz)</div></div><table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>5510.00</td><td>59.87</td><td>68.20</td><td>-8.33</td><td>55.12</td><td>4.75</td><td>Peak</td><td>100</td><td>104</td></tr><tr><td>2</td><td>5650.00</td><td>59.40</td><td>68.20</td><td>-8.80</td><td>54.59</td><td>4.81</td><td>Peak</td><td>104</td><td>222</td></tr><tr><td>3</td><td>5700.00</td><td>61.87</td><td>105.20</td><td>-43.33</td><td>56.85</td><td>5.02</td><td>Peak</td><td>104</td><td>222</td></tr><tr><td>4</td><td>5720.00</td><td>70.42</td><td>110.80</td><td>-40.38</td><td>65.28</td><td>5.14</td><td>Peak</td><td>104</td><td>222</td></tr><tr><td>5</td><td>5725.00</td><td>73.09</td><td>122.20</td><td>-49.11</td><td>67.92</td><td>5.17</td><td>Peak</td><td>104</td><td>222</td></tr><tr><td>6</td><td>5925.00</td><td>58.86</td><td>68.20</td><td>-9.34</td><td>53.25</td><td>5.61</td><td>Peak</td><td>104</td><td>222</td></tr><tr><td>7</td><td>11510.00</td><td>44.65</td><td>54.00</td><td>-9.35</td><td>30.25</td><td>14.40</td><td>Average</td><td>100</td><td>350</td></tr><tr><td>8</td><td>11510.00</td><td>56.63</td><td>74.00</td><td>-17.37</td><td>42.23</td><td>14.40</td><td>Peak</td><td>100</td><td>350</td></tr><tr><td>9</td><td>17265.00</td><td>59.80</td><td>68.20</td><td>-8.40</td><td>42.30</td><td>17.50</td><td>Peak</td><td>100</td><td>353</td></tr></tbody></table></div>					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	5510.00	59.87	68.20	-8.33	55.12	4.75	Peak	100	104	2	5650.00	59.40	68.20	-8.80	54.59	4.81	Peak	104	222	3	5700.00	61.87	105.20	-43.33	56.85	5.02	Peak	104	222	4	5720.00	70.42	110.80	-40.38	65.28	5.14	Peak	104	222	5	5725.00	73.09	122.20	-49.11	67.92	5.17	Peak	104	222	6	5925.00	58.86	68.20	-9.34	53.25	5.61	Peak	104	222	7	11510.00	44.65	54.00	-9.35	30.25	14.40	Average	100	350	8	11510.00	56.63	74.00	-17.37	42.23	14.40	Peak	100	350	9	17265.00	59.80	68.20	-8.40	42.30	17.50	Peak	100	353
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg																																																																																														
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2	5650.00	59.40	68.20	-8.80	54.59	4.81	Peak	104	222																																																																																														
3	5700.00	61.87	105.20	-43.33	56.85	5.02	Peak	104	222																																																																																														
4	5720.00	70.42	110.80	-40.38	65.28	5.14	Peak	104	222																																																																																														
5	5725.00	73.09	122.20	-49.11	67.92	5.17	Peak	104	222																																																																																														
6	5925.00	58.86	68.20	-9.34	53.25	5.61	Peak	104	222																																																																																														
7	11510.00	44.65	54.00	-9.35	30.25	14.40	Average	100	350																																																																																														
8	11510.00	56.63	74.00	-17.37	42.23	14.40	Peak	100	350																																																																																														
9	17265.00	59.80	68.20	-8.40	42.30	17.50	Peak	100	353																																																																																														
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	VHT40	Test Freq. (MHz)	5755																																																																																																				
Polarization	Vertical																																																																																																						
Test By :Akun Chung Temperature(°C):23 Humidity(%):67																																																																																																							
<div><div><div>Level (dBuV/m)</div><div></div></div><table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB/m</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>5510.00</td><td>65.91</td><td>68.20</td><td>-2.29</td><td>61.16</td><td>4.75</td><td>Peak</td><td>130</td><td>165</td></tr><tr><td>2</td><td>5650.00</td><td>65.84</td><td>68.20</td><td>-2.36</td><td>61.03</td><td>4.81</td><td>Peak</td><td>101</td><td>172</td></tr><tr><td>3</td><td>5700.00</td><td>64.21</td><td>105.20</td><td>-40.99</td><td>59.19</td><td>5.02</td><td>Peak</td><td>101</td><td>172</td></tr><tr><td>4</td><td>5720.00</td><td>74.18</td><td>110.80</td><td>-36.62</td><td>69.04</td><td>5.14</td><td>Peak</td><td>101</td><td>172</td></tr><tr><td>5</td><td>5725.00</td><td>75.17</td><td>122.20</td><td>-47.03</td><td>70.00</td><td>5.17</td><td>Peak</td><td>101</td><td>172</td></tr><tr><td>6</td><td>5925.00</td><td>60.87</td><td>68.20</td><td>-7.33</td><td>55.26</td><td>5.61</td><td>Peak</td><td>101</td><td>172</td></tr><tr><td>7</td><td>11510.00</td><td>45.06</td><td>54.00</td><td>-8.94</td><td>30.66</td><td>14.40</td><td>Average</td><td>100</td><td>109</td></tr><tr><td>8</td><td>11510.00</td><td>56.99</td><td>74.00</td><td>-17.01</td><td>42.59</td><td>14.40</td><td>Peak</td><td>100</td><td>109</td></tr><tr><td>9</td><td>17265.00</td><td>60.05</td><td>68.20</td><td>-8.15</td><td>42.55</td><td>17.50</td><td>Peak</td><td>100</td><td>101</td></tr></table></div>					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	5510.00	65.91	68.20	-2.29	61.16	4.75	Peak	130	165	2	5650.00	65.84	68.20	-2.36	61.03	4.81	Peak	101	172	3	5700.00	64.21	105.20	-40.99	59.19	5.02	Peak	101	172	4	5720.00	74.18	110.80	-36.62	69.04	5.14	Peak	101	172	5	5725.00	75.17	122.20	-47.03	70.00	5.17	Peak	101	172	6	5925.00	60.87	68.20	-7.33	55.26	5.61	Peak	101	172	7	11510.00	45.06	54.00	-8.94	30.66	14.40	Average	100	109	8	11510.00	56.99	74.00	-17.01	42.59	14.40	Peak	100	109	9	17265.00	60.05	68.20	-8.15	42.55	17.50	Peak	100	101
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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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City 33381, Taiwan (R.O.C.)

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If you have any suggestion, please feel free to contact us as below information.

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