

FCC REPORT

Applicant: Shenzhen Digitalor Technology Co., Ltd

Address of Applicant: Room 305-2, Shenzhen IC Design & Application Industrial Park, No.1089, Chaguang Rd, Nanshan District, Shenzhen, Guangdong, China

Equipment Under Test (EUT)

Product Name: U-WEI Assets Intelligent Management Module

Model No.: UR2100MT-POE

Trade Mark: Digitalor

FCC ID: 2AOFJUR2100MT-POE

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.225

Date of sample receipt: 05 Dec., 2017

Date of Test: 06 Dec., 2017 to 15 Jun., 2018

Date of report issue: 19 Jun., 2018

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	19 Jun., 2018	Original

Tested by:

Zora Lee

Date:

19 Jun., 2018

Test Engineer

Reviewed by:

Wimer Zhang

Date:

19 Jun., 2018

Project Engineer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
Field strength of the fundamental signal	15.225 (a)	Pass
Spurious emissions	15.225(d)& 15.209	Pass
20dB Bandwidth	15.215(c)	Pass
Frequency tolerance	15.225 (e)	Pass
Conducted Emission	15.207	Pass

Remarks:

Pass: The EUT complies with the essential requirements in the standard.

5 General Information

5.1 Client Information

Applicant:	Shenzhen Digitalor Technology Co., Ltd
Address:	Room 305-2, Shenzhen IC Design & Application Industrial Park, No.1089, Chaguang Rd, Nanshan District, Shenzhen, Guangdong, China
Manufacturer/ Factory:	Shenzhen Digitalor Technology Co., Ltd
Address:	Room 305-2, Shenzhen IC Design & Application Industrial Park, No.1089, Chaguang Rd, Nanshan District, Shenzhen, Guangdong, China

5.2 General Description of E.U.T.

Product Name:	U-WEI Assets Intelligent Management Module
Model No.:	UR2100MT-POE
Operation Frequency:	13.56MHz
Channel numbers:	1
Modulation type:	ASK
Antenna Type:	PCB Antenna
Antenna gain:	1dBi
Power supply:	DC 48V

5.3 Test mode

Transmitting mode:	Keep the EUT in transmitting mode with modulation		
Pre-Test Mode:			
CCIS has verified the construction and function in typical operation,The EUT was placed on three different polar directions;i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:			
Axis	X	Y	Z
Field Strength(dBuV/m)	47.46	46.58	46.32
Final Test Mode:			
According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup”: Y axis (see the test setup photo).			

5.4 Description of Support Units

N/A

5.5 Laboratory Facility

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

- **FCC - Registration No.: 727551**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

- **IC - Registration No.: 10106A-1**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China
Tel: +86-755-23118282, Fax: +86-755-23116366
Email: info@ccis-cb.com, Website: <http://www.ccis-cb.com>

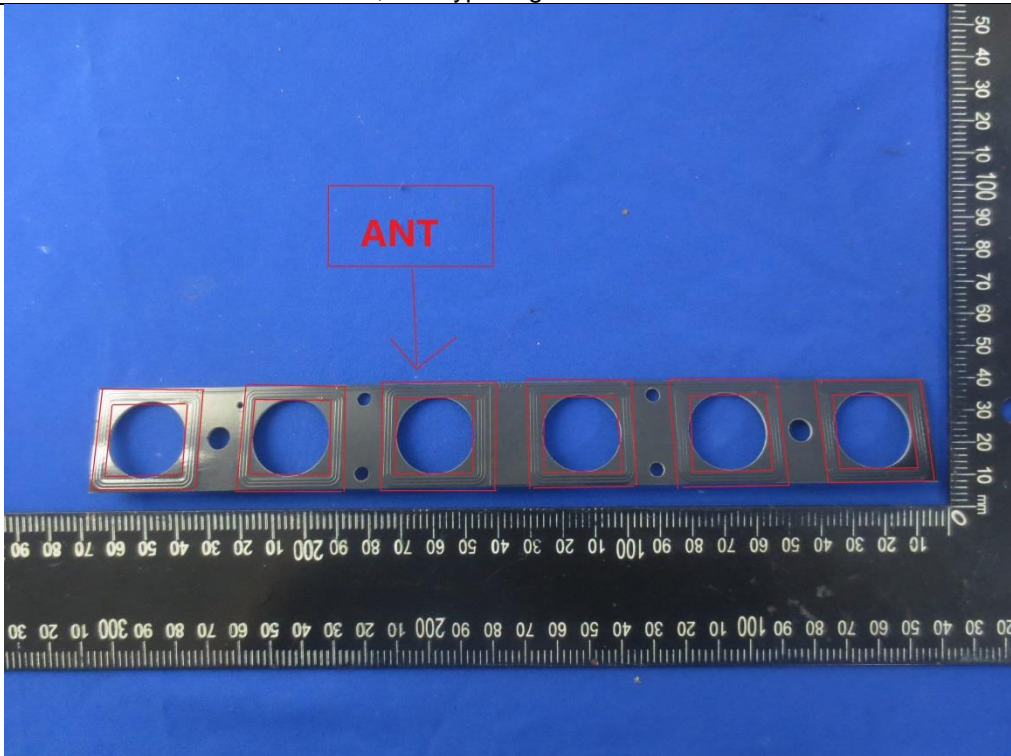
5.7 Test Instrumentslist

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	02-25-2017	02-24-2018
					02-25-2018	02-24-2019
2	Loop Antenna	SCHWARZBECK	FMZB 1519 B	CCIS0188	02-25-2017	02-24-2018
					02-25-2018	02-24-2019
2	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	CCIS0005	02-25-2017	02-24-2018
					02-25-2018	02-24-2019
3	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	CCIS0006	02-25-2017	02-24-2018
					02-25-2018	02-24-2019
4	Amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	02-25-2017	02-24-2018
					02-25-2018	02-24-2019
5	Amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	02-25-2017	02-24-2018
					02-25-2018	02-24-2019
6	Spectrum analyzer	Rohde & Schwarz	FSP30	CCIS0023	02-25-2017	02-24-2018
					02-25-2018	02-24-2019

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Date (mm-dd-yy)
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	07-22-2017	07-21-2020
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	02-25-2017	02-24-2018
					02-25-2018	02-24-2019
3	LISN	CHASE	MN2050D	CCIS0074	02-25-2017	02-24-2018
					02-25-2018	02-24-2019
4	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

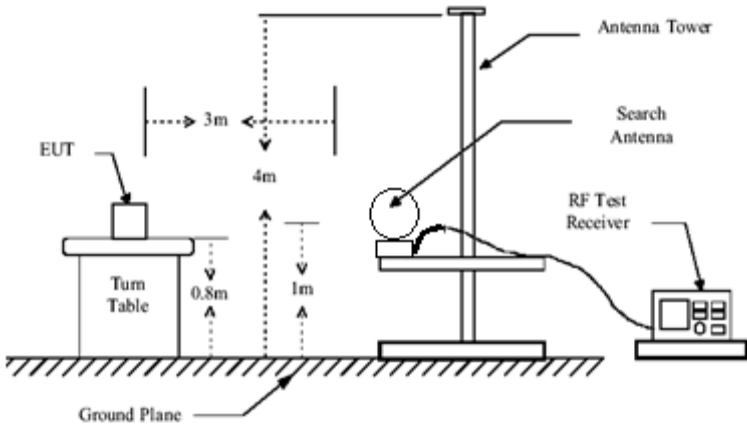
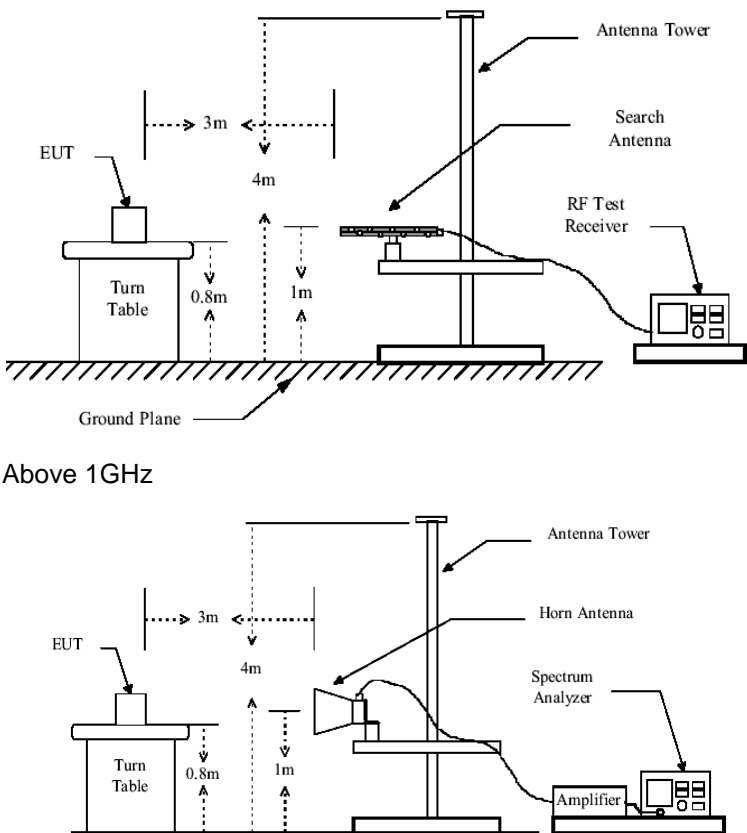
6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203
<p>15.203 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 a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p>	
E.U.T Antenna:	
The EUT make use of a PCB antenna, The typical gain of the antenna is 1dBi.	
	

6.2 Radiated Emission

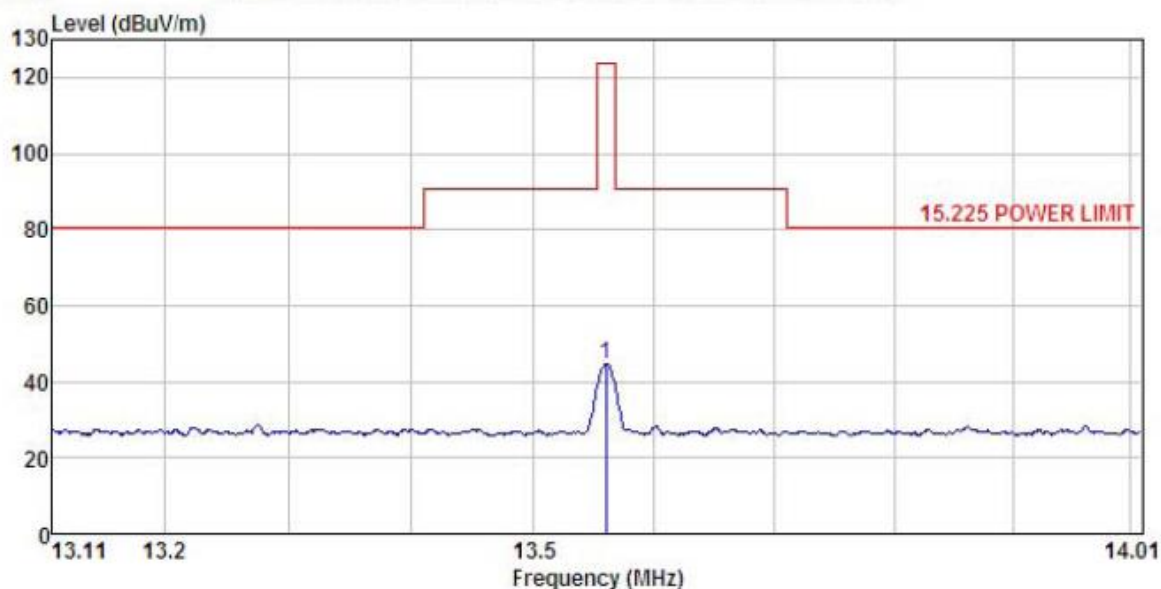
Test Requirement:	FCC Part15 C Section 15.225(a) and 15.209				
Test Method:	ANSI C63.10: 2013				
TestFrequencyRange:	9 kHz to 1000MHz				
Test site:	Measurement Distance: 3m(Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz-150kHz	Quasi-peak	200Hz	600Hz	Quasi-peak Value
	150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120kHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Limit: (Field strength of the fundamental signal)	Frequency		Limit (uV/m @30m)		Limit (dBuV/m @3m)
	13.553MHz-13.567MHz		15848		124.0
	13.410MHz-13.553MHz & 13.567MHz-13.710MHz		334		90.5
	13.110MHz-13.410MHz & 13.710MHz-14.010MHz		106		80.5
	Remark: Per FCC part 15.31, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).				
Limit: (Spurious Emissions)	Frequency (MHz)		Limit (uV/m @3m)		Distance (m)
	0.009-0.490		2400/F(kHz)		300
	0.490-1.705		24000/F(kHz)		30
	1.705-30		30		30
	30-88		100		3
	88-216		150		3
	216-960		200		3
	Above 1GHz		500		3
Test Procedure:	<p>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. 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.</p> <p>d. 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 and the rotating table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. 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.</p>				
Test setup:	9kHz-30MHz				

	<div><p>30MHz-1GHz</p></div>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Measurement Record:	Uncertainty:±4.88 dB
Test results:	Pass

Measurement Data:

Field Strength Of The Fundamental Signal

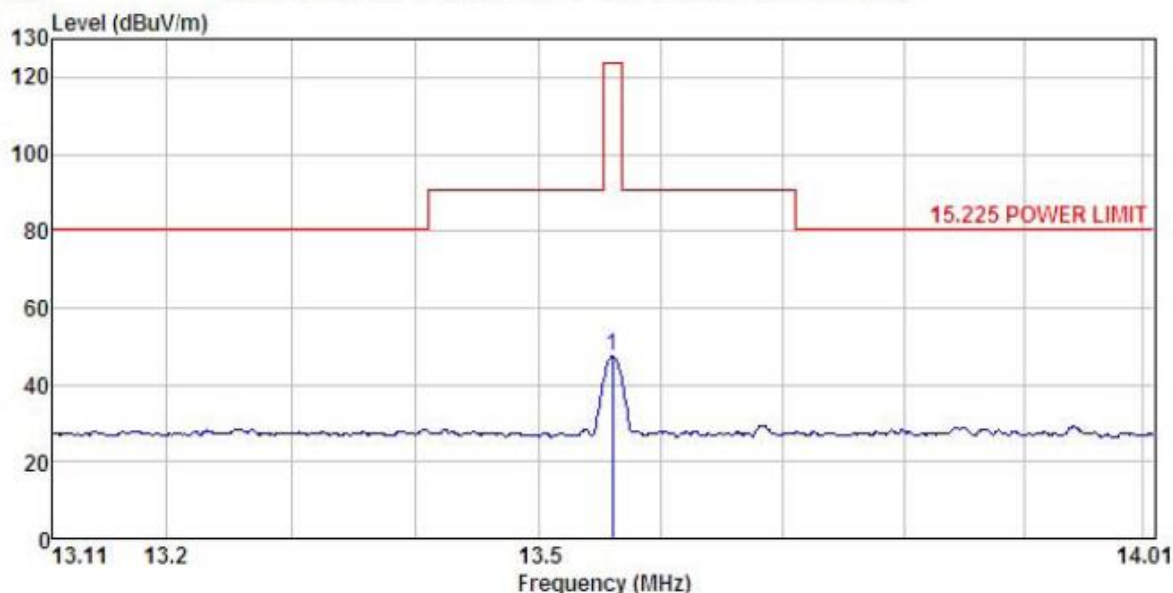
Test Polarization: Horizontal



Site : 3m chamber
 Condition : 15.225 POWER LIMIT 3m LOOP-FM2B 1519B VERTICAL
 EUT : U-WEI Assets Intelligent Management Modu
 Model : UR2100MT-POE
 Test mode : Power mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Zora
 REMARK :

	Freq	ReadAntenna	Cable	Preamp		Limit	Over	
		Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	13.560	24.58	19.42	0.64	0.00	44.64	124.00	-79.36

Test Polarization: Vertical



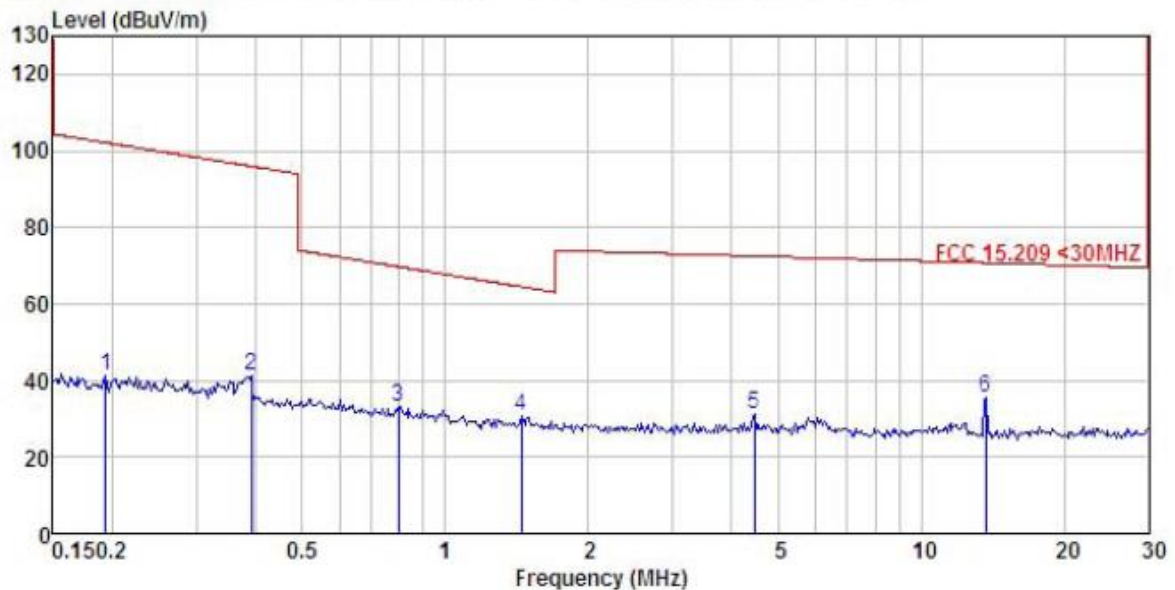
Site : 3m chamber
 Condition : 15.225 POWER LIMIT 3m LOOP-FMZE 1519B HORIZONTAL
 EUT : U-WEI Assets Intelligent Management Modu
 Model : UR2100MT-POE
 Test mode : Power mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Zora
 REMARK :

		ReadAntenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	13.560	27.40	19.42	0.64	0.00	47.46	124.00	-76.54

Spurious Emissions

Test frequency range: 150kHz-30MHz

Test Polarization: Horizontal



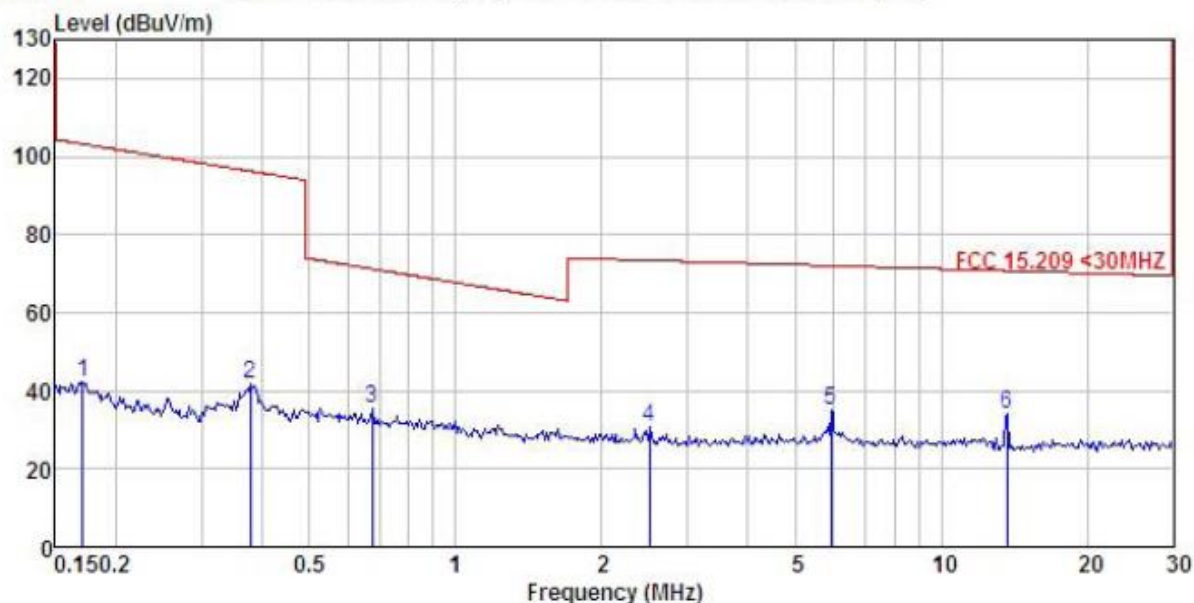
Site : 3m chamber
 Condition : FCC 15.209 <30MHZ 3m LOOP-FMZB 1519B HORIZONTAL
 EUT : U-WEI Assets Intelligent Management Modu
 Model : UR2100MT-POE
 Test mode : Working mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Zora
 REMARK :

	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.193	67.20	-26.19	0.32	0.00	41.33	102.15	-60.82	QP
2	0.391	67.00	-26.27	0.37	0.00	41.10	95.97	-54.87	QP
3	0.799	58.80	-26.30	0.59	0.00	33.09	69.69	-36.60	QP
4	1.444	56.29	-26.41	0.63	0.00	30.51	64.47	-33.96	QP
5	4.459	57.05	-26.59	0.62	0.00	31.08	72.49	-41.41	QP
6	13.658	61.17	-26.48	0.64	0.00	35.33	70.73	-35.40	QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.
2. The emission levels of 9 kHz~150 kHz are background noise and very lower than the limit, not show in test report.

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC 15.209 <30MHz 3m LOOP-FMVB 1519B VERTICAL
 EUT : U-WEI Assets Intelligent Management Modu
 Model : UR2100MT-POE
 Test mode : Working mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Zora
 REMARK :

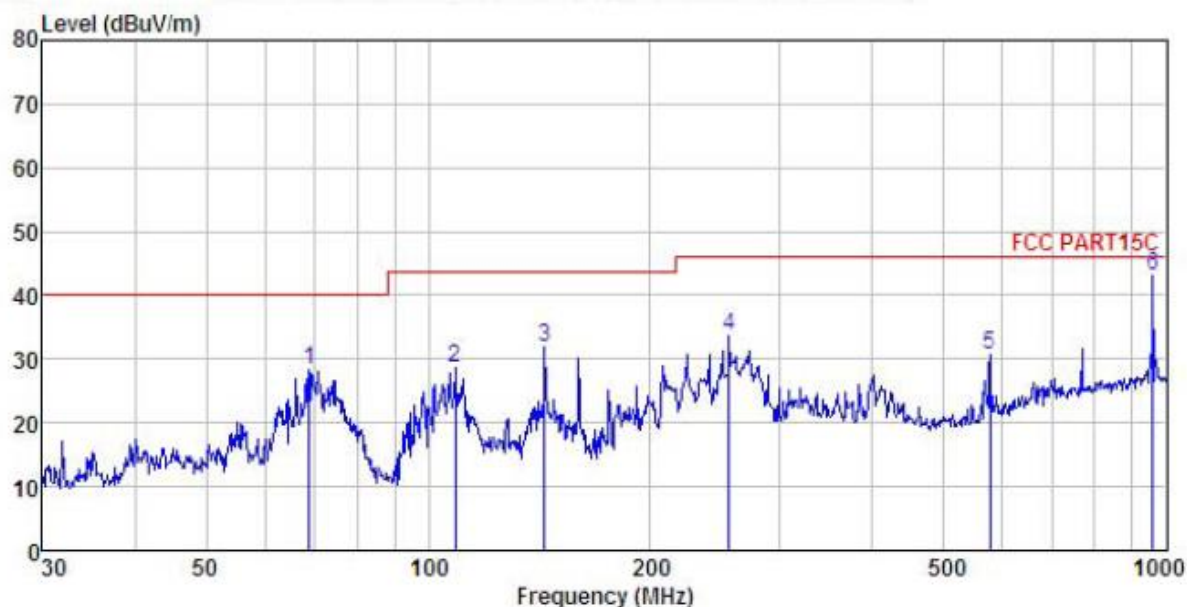
	Freq	ReadAntenna	Cable Preamp	Limit	Over			
	MHz	Level	Factor	Loss Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	0.171	68.26	-26.18	0.30	0.00	42.38	103.22	-60.84 QP
2	0.379	67.47	-26.27	0.37	0.00	41.57	96.26	-54.69 QP
3	0.674	61.48	-26.30	0.55	0.00	35.73	71.19	-35.46 QP
4	2.507	56.66	-26.52	0.65	0.00	30.79	73.40	-42.61 QP
5	5.923	61.09	-26.55	0.52	0.00	35.06	72.05	-36.99 QP
6	13.658	59.69	-26.48	0.64	0.00	33.85	70.73	-36.88 QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.
2. The emission levels of 9 kHz~150 kHz are background noise and very lower than the limit, not show in test report.

Test frequency range: 30MHz-1000MHz

Test Polarization: Horizontal



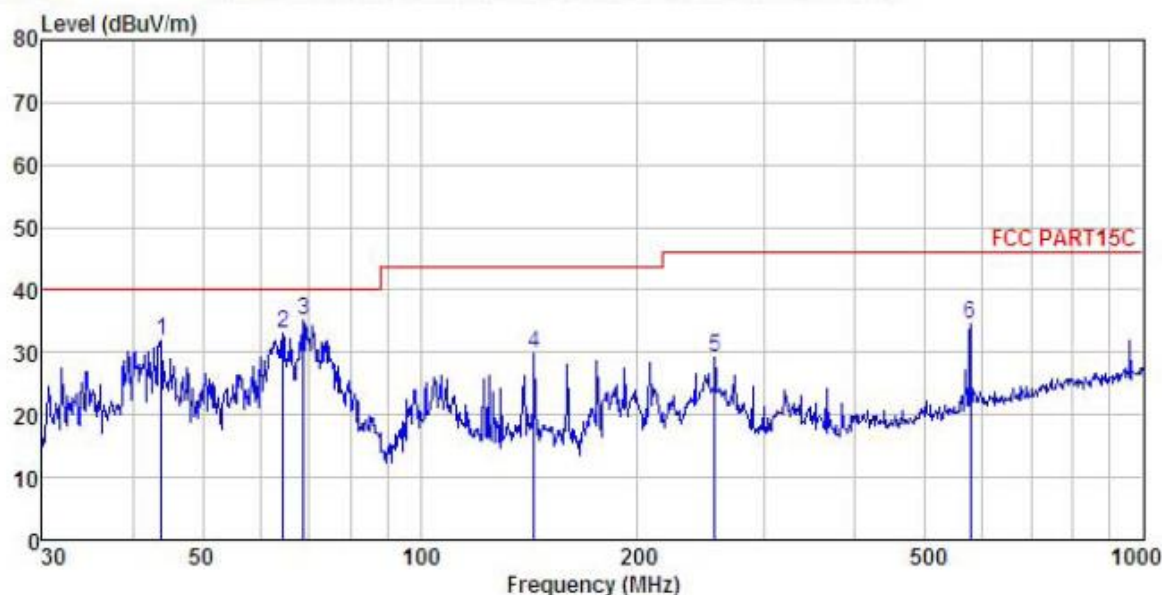
Site : 3m chamber
 Condition : FCC PART15C 3m VULB9163(30M2G) HORIZONTAL
 EUT : U-WEI Assets Intelligent Management Modu
 Model : UR2100MT-POE
 Test mode : Working mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Zora
 REMARK :

	Freq	ReadAntenna	Cable Preamp	Limit	Over			
	MHz	Level Factor	Loss Factor	Line	Limit	Remark		
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	68.872	47.23	9.45	1.49	29.73	28.44	40.00	-11.56 QP
2	108.647	43.71	12.22	2.03	29.47	28.49	43.60	-15.11 QP
3	143.830	50.44	8.30	2.44	29.25	31.93	43.60	-11.67 QP
4	255.623	45.97	13.34	2.82	28.53	33.60	46.00	-12.40 QP
5	576.644	37.23	18.65	3.92	29.01	30.79	46.00	-15.21 QP
6	958.794	44.06	22.47	4.26	27.67	43.12	46.00	-2.88 QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test Polarization: Vertical



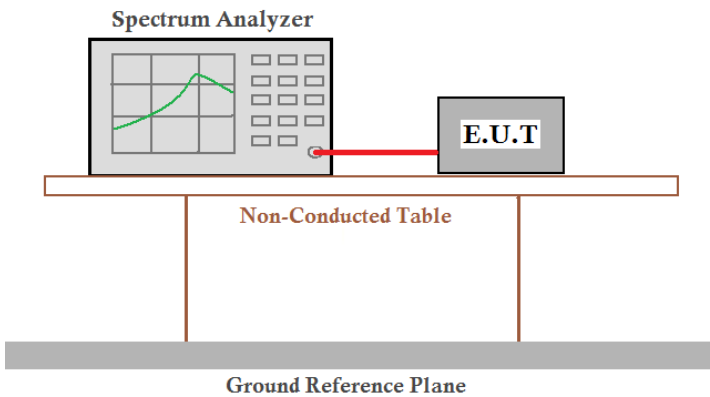
Site : 3m chamber
 Condition : FCC PART15C 3m VULB9163(30M2G) VERTICAL
 EUT : U-WEI Assets Intelligent Management Modu
 Model : UR2100MT-POE
 Test mode : Working mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Zora
 REMARK :

	Freq	ReadAntenna	Cable Preamp		Limit	Over	
		Level Factor	Loss Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB
1	43.812	46.98	13.50	1.26	29.87	31.87	40.00 -8.13 QP
2	64.659	50.53	10.80	1.38	29.76	32.95	40.00 -7.05 QP
3	68.872	53.97	9.45	1.49	29.73	35.18	40.00 -4.82 QP
4	143.830	48.35	8.30	2.44	29.25	29.84	43.60 -13.76 QP
5	255.623	41.58	13.34	2.82	28.53	29.21	46.00 -16.79 QP
6	576.644	40.84	18.65	3.92	29.01	34.40	46.00 -11.60 QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

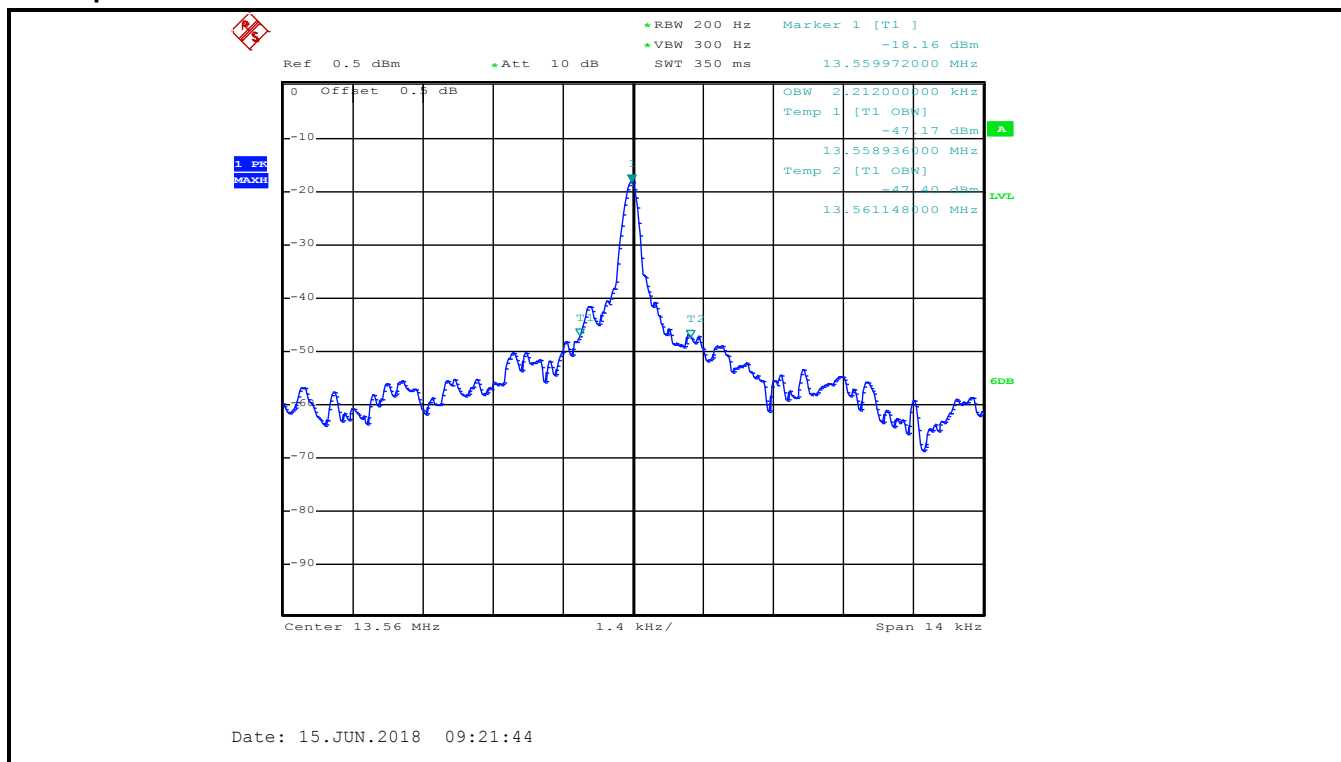
6.3 20dB Bandwidth

Test Requirement:	FCC Part15 C Section 15.215 (c)
Test Method:	ANSI C63.4:2014
Receiver setup:	RBW=200Hz, VBW=300Hz, detector: Peak
Limit:	The fundamental emission be kept within atleast the central 80% of the permitted band
Test Procedure:	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set the EUT to proper test channel. 3. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points. 4. Read 20dB bandwidth.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

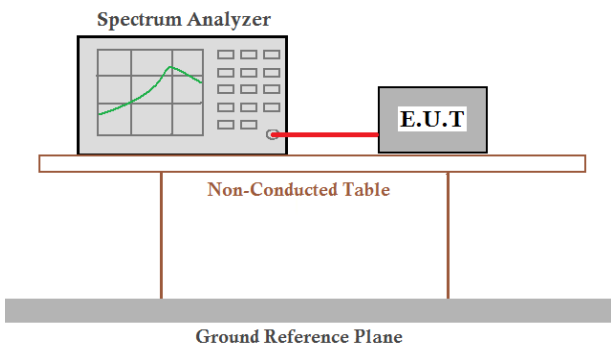
Measurement Data

20dB bandwidth (kHz)	Limit (kHz)	Results
2.212	11.2	Passed
Note: For 13.56MHz, permitted Band is 14 kHz, so the Limit is 11.2 kHz.		

Test plot as follows:



6.4 Frequency Tolerance

Test Requirement:	FCC Part15 C Section 15.225 (e)
Test Method:	ANSI C63.10: 2013
Receiver setup:	RBW=200Hz, VBW=300Hz, span=14kHz, detector: Peak
Limit:	±0.01% of the operating frequency
Test mode:	Transmitting mode
Test Procedure:	<p>Frequency stability V.S. Temperature measurement</p> <ol style="list-style-type: none"> 1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached <p>Frequency stability V.S. Voltage measurement</p> <ol style="list-style-type: none"> 1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. <p>Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.</p>
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by two vertical legs and sits on a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.7 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

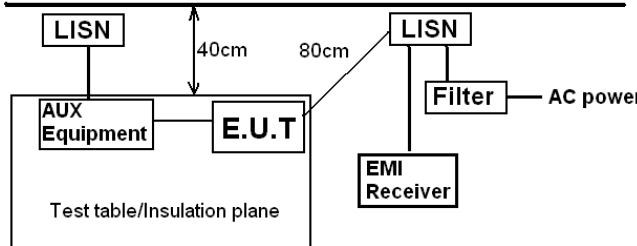
Measurement Data:**a) Frequency stability V.S. Temperature measurement**

Voltage (Vdc)	Temperature (°C)	Frequency Tolerance (MHz)	Frequency Error (%)	Limit (%)
48	-20	13.559972	0.00021	±0.01
	-10	13.559970	0.00022	±0.01
	0	13.559974	0.00019	±0.01
	10	13.559972	0.00021	±0.01
	20	13.559972	0.00021	±0.01
	30	13.559970	0.00022	±0.01
	40	13.559976	0.00018	±0.01
	50	13.559976	0.00018	±0.01

b) Frequency stability V.S. Voltage measurement

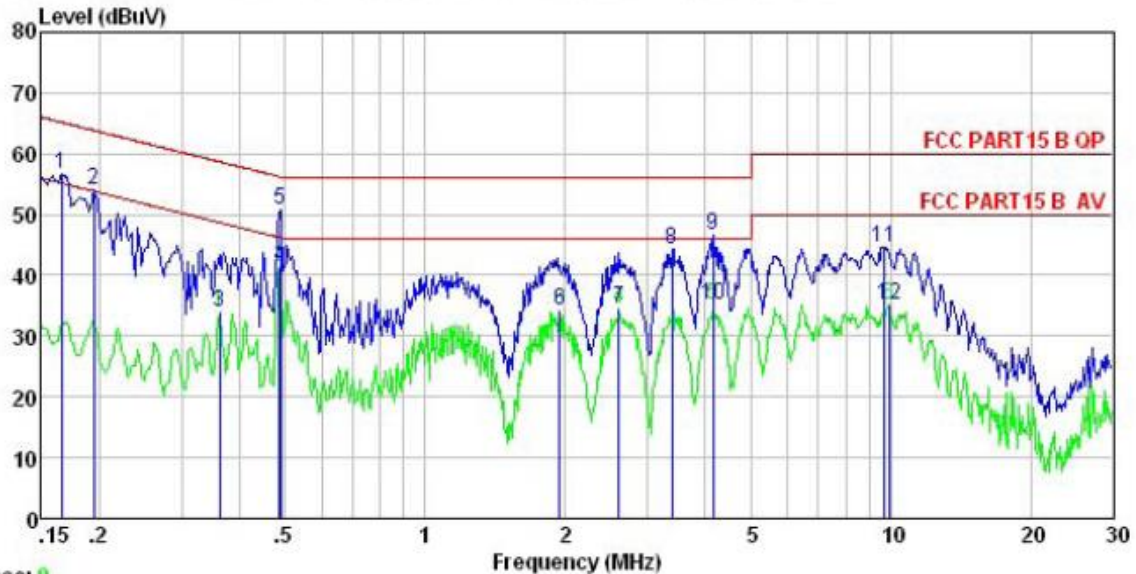
Temperature (°C)	Voltage (Vdc)	Frequency Tolerance (MHz)	Frequency Error (%)	Limit (%)
25	40.8	13.559972	0.00021	±0.01
	48.0	13.559976	0.00018	±0.01
	55.2	13.559974	0.00019	±0.01

6.5 Conducted Emission

Test Requirement:	FCC Part15 B Section 15.207					
Test Method:	ANSI C63.4:2014					
TestFrequencyRange:	150kHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:	Frequency range (MHz)		Limit (dBμV)			
			Quasi-peak		Average	
	0.15-0.5		66 to 56*		56 to 46*	
	0.5-5		56		46	
	0.5-30		60		50	
* Decreases with the logarithm of the frequency.						
Test setup:	<div><p style="text-align: center;">Reference Plane</p><p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div>					
Test procedure	<div><div>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.).It provide a 50ohm/50uH coupling impedance for the measuring equipment.</div><div>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</div><div>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.</div></div>					
Test environment:	Temp.:	23°C	Humid.:	56%	Press.:	101kPa
Measurement Record:	Uncertainty: 3.28dB					
Test Instruments:	Refer to section 5.7 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Pass					

Measurement Data:

Test Phase: Line



Trace: 0

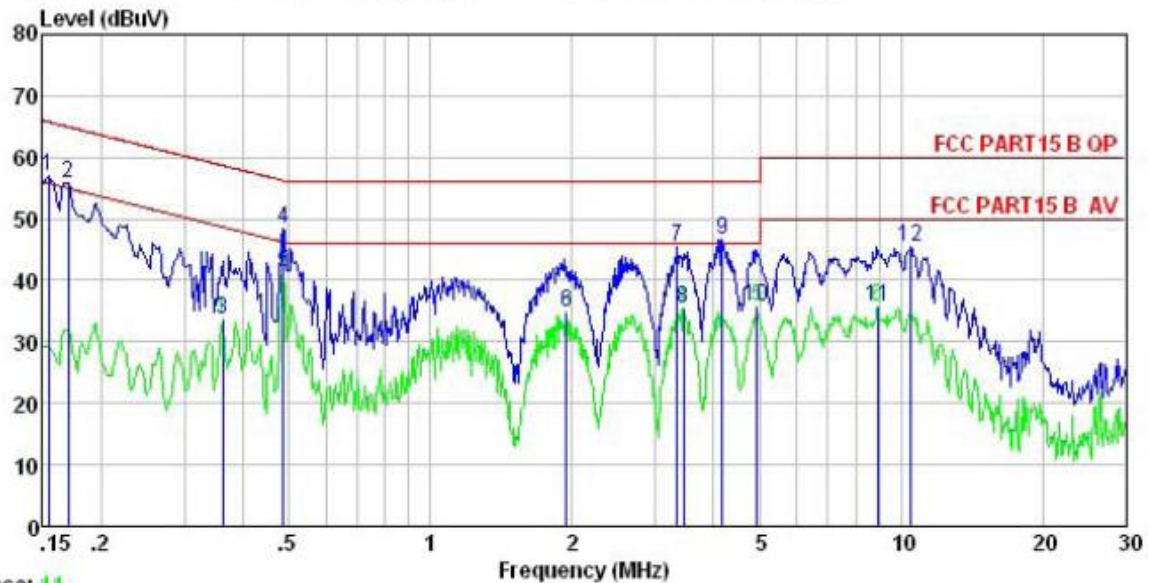
Site : CCIS Shielding Room
 Condition : FCC PART15 B QP LISN LINE
 EUT : U-WEI Assets Intelligent Management Modu
 Model : UR2100MT-POE
 Test Mode : Working mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: Zora
 Remark :

	Read	LISN	Cable	Limit	Over	
Freq	Level	Factor	Loss	Line	Limit	Remark
MHz	dBuV	dB	dB	dBuV	dB	
1	0.166	46.37	-0.55	10.77	56.59	65.16 -8.57 QP
2	0.194	43.84	-0.52	10.76	54.08	63.84 -9.76 QP
3	0.361	23.70	-0.50	10.73	33.93	48.69 -14.76 Average
4	0.486	30.98	-0.49	10.76	41.25	46.23 -4.98 Average
5	0.489	40.58	-0.49	10.76	50.85	56.19 -5.34 QP
6	1.949	23.58	-0.43	10.96	34.11	46.00 -11.89 Average
7	2.608	23.92	-0.44	10.93	34.41	46.00 -11.59 Average
8	3.381	33.80	-0.38	10.91	44.33	56.00 -11.67 QP
9	4.158	35.93	-0.28	10.88	46.53	56.00 -9.47 QP
10	4.158	24.45	-0.28	10.88	35.05	46.00 -10.95 Average
11	9.654	33.69	0.11	10.92	44.72	60.00 -15.28 QP
12	9.913	23.97	0.11	10.93	35.01	50.00 -14.99 Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Test Phase: Neutral



Site : CCIS Shielding Room
 Condition : FCC PART15 B QP LISN NEUTRAL
 EUT : U-WEI Assets Intelligent Management Modu
 Model : UR2100MT-POE
 Test Mode : Working mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: Zora
 Remark :

	Freq	Read	LISN	Cable	Level	Limit	Over	
	MHz	Level	Factor	Loss	dBuV	Line	Limit	Remark
		dBuV	dB	dB		dBuV	dB	
1	0.154	46.56	-0.38	10.78	56.96	65.78	-8.82	QP
2	0.170	45.52	-0.36	10.77	55.93	64.94	-9.01	QP
3	0.361	23.35	-0.32	10.73	33.76	48.69	-14.93	Average
4	0.486	37.90	-0.30	10.76	48.36	56.23	-7.87	QP
5	0.486	30.77	-0.30	10.76	41.23	46.23	-5.00	Average
6	1.949	24.06	-0.26	10.96	34.76	46.00	-11.24	Average
7	3.346	34.67	-0.20	10.91	45.38	56.00	-10.62	QP
8	3.454	24.83	-0.20	10.91	35.54	46.00	-10.46	Average
9	4.180	36.04	-0.21	10.88	46.71	56.00	-9.29	QP
10	4.952	25.07	-0.21	10.85	35.71	46.00	-10.29	Average
11	8.916	24.42	0.27	10.89	35.58	50.00	-14.42	Average
12	10.508	34.36	0.24	10.94	45.54	60.00	-14.46	QP

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.