FCC EMI TEST REPORT

FCC ID	:	**U8G-P1AX11**
Equipment	:	**PEPWAVE / peplink Wireless Product**
Brand Name	:	**PEPWAVE / peplink**
Model Name	:	**MAX Transit Pro** **MAX Transit Pro LTEA** **MAX-TST-PRO-DUO-LTEA-US-T-PRM** **MAX-TST-PRO-DUO-LTEA-R-T-PRM**
Applicant	:	**PISMO LABS TECHNOLOGY LIMITED** **A8, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Hong Kong**
Manufacturer	:	**PISMO LABS TECHNOLOGY LIMITED** **A8, 5/F, HK Spinners Industrial Building, Phase 6, 481 Castle Peak Road, Cheung Sha Wan, Hong Kong**
Standard	:	**FCC 47 CFR FCC Part 15 Subpart B Class A**

The product was received on Jan. 18, 2022 and testing was performed from Feb. 16, 2022 to Mar. 08, 2022. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

Table of Contents

History of this test report

Report No.	Version	Description	Issue Date
FC211326	01	Initial issue of report	Jun. 24, 2022

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.107	AC Conducted Emission	Pass	21.86 dB under the limit at 0.152 MHz
3.2	15.109	Radiated Emission	Pass	15.96 dB under the limit at 125.000 MHz for Quasi-Peak

Declaration of Conformity:
1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results. 2. The measurement uncertainty please refer to this report "Uncertainty of Evaluation".
Comments and Explanations:
The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Lewis Ho

Report Producer: Vivian Hsu

1. General Description

1.1. Product Feature of Equipment Under Test

WCDMA/LTE, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, WiFi 5GHz 802.11a/n/ac/ax, and GPS

Product Feature	
Integrated WWAN Module 1	**Brand Name:** Sierra **Model Name:** EM7411 **FCC ID:** N7NEM74B
Integrated WWAN Module 2	**Brand Name:** Sierra **Model Name:** EM7511 **FCC ID:** N7NEM75S
Sample 1	MAX-TST-PRO-DUO-LTEA-US-T-PRM with WWAN Module 1 (EM7411)
Sample 2	MAX-TST-PRO-DUO-LTEA-R-T-PRM with WWAN Module 2 (EM7511)
Antenna Type	WWAN **<For EM7511>:** Omni-directional Antenna **<For EM7411>:** Omni-directional Antenna WLAN: Omni-directional Antenna GPS: Directional Antenna

Remark:

1. The EUT's information above is declared by manufacturer. Please refer to Comments and Explanations in report summary.
2. The product will integrate the cellular module (EM7511, EM7411). Among the 2 options, at a time only 1 cellular module will be installed), therefore the cellular module is incorporated into the host for Part 15B. Equipment authorization to integrate the cellular module will follow the FCC modular approval policy and procedures.

1.2. Modification of EUT

No modifications made to the EUT during the testing.

1.3. Test Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	CO05-HY, 03CH06-HY

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.30-2, Dingfu Vil., Linkou Dist., New Taipei City 244, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	OS04-LK

FCC designation No.: TW1093 and TW1095

1.4. Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B Class A
- ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT is tested along with the peripherals, operating under possible configurations in compliant with normal operation. The maximum emissions can be identified by a pre-scan carried out in different orientations of placement pursuant to ANSI C63.4-2014. Frequency range covered: Conduction Emission (150 kHz to 30 MHz), Radiation Emission (30 MHz to the 5th harmonics of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Functions Enabled
AC Conducted Emission	Mode 1: LTE Band 2 Idle + WLAN (2.4GHz) Link + LAN Link + WAN Link + GPS Rx + Adapter + SIM A for Sample 1 Mode 2: LTE Band 5 Idle + WLAN (5GHz) Link + LAN Link + WAN Link + GPS Rx + Type C (Port 1) Cable with Adapter + SIM B for Sample 1 Mode 3: LTE Band 12 Idle + WLAN (2.4GHz) Link + LAN Link + WAN Link + GPS Rx + Type C (Port 2) Cable with Adapter + SIM A for Sample 1 Mode 4: LTE Band 13 Idle + WLAN (5GHz) Link + LAN Link + WAN Link + GPS Rx + Type C (Port 1) Cable with Adapter + SIM B for Sample 1 Mode 5: LTE Band 71 Idle + WLAN (2.4GHz) Link + LAN Link + WAN Link + GPS Rx + Type C (Port 1) Cable with Adapter + SIM A for Sample 1 Mode 6: LTE Band 5 Idle + WLAN (5GHz) Idle + LAN Link + WAN Link + GPS Rx + Type C (Port 1) Cable with Adapter + SIM B for Sample 1 Mode 7: LTE Band 5 Idle + WLAN (5GHz) Link + LAN Link + WAN Link + GPS Rx + Type C (Port 1) Cable with Adapter + SIM B for Sample 2
Radiated Emissions	Mode 1: LTE Band 2 Idle + WLAN (2.4GHz) Link + LAN Link + WAN Link + GPS Rx + Adapter + SIM A for Sample 1 Mode 2: LTE Band 5 Idle + WLAN (5GHz) Link + LAN Link + WAN Link + GPS Rx + Type C (Port 1) Cable with Adapter + SIM B for Sample 1 Mode 3: LTE Band 12 Idle + WLAN (2.4GHz) Link + LAN Link + WAN Link + GPS Rx + Type C (Port 2) Cable with Adapter + SIM A for Sample 1 Mode 4: LTE Band 13 Idle + WLAN (5GHz) Link + LAN Link + WAN Link + GPS Rx + DC 12V (Terminal block) + SIM B for Sample 1 Mode 5: LTE Band 71 Idle + WLAN (2.4GHz) Link + LAN Link + WAN Link + GPS Rx + DC 56V (Terminal block) + SIM A for Sample 1 Mode 6: LTE Band 12 Idle + WLAN (2.4GHz) Idle + LAN Link + WAN Link + GPS Rx + Type C (Port 2) Cable with Adapter + SIM A for Sample 1 Mode 7: LTE Band 12 Idle + WLAN (2.4GHz) Idle + LAN Link + WAN Link + GPS Rx + Type C (Port 2) Cable with Adapter + SIM A for Sample 2

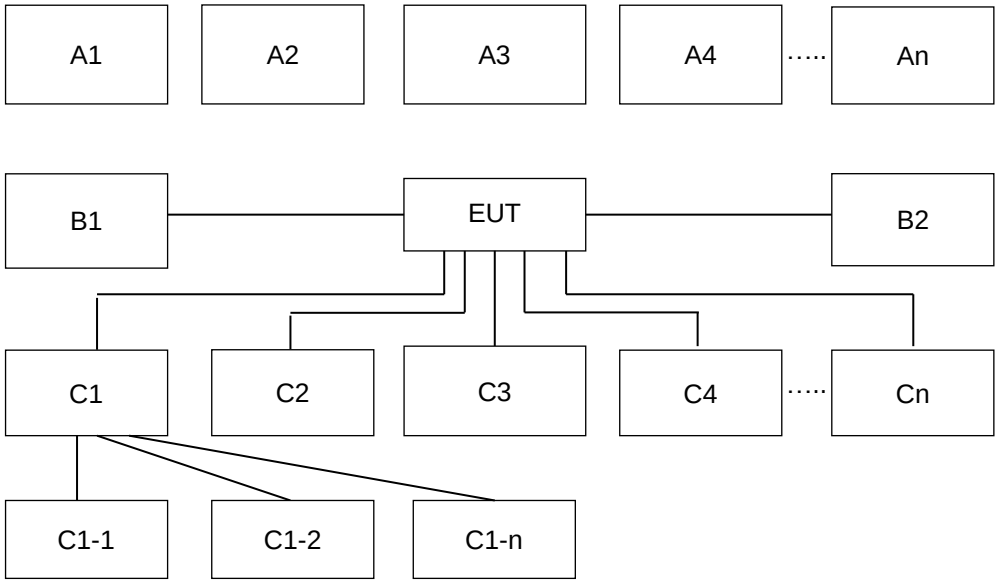
Remark:

1. The worst case of AC is mode 2; only the test data of this mode was reported.

2. The worst case of RE is mode 7; only the test data of this mode was reported.

3. For radiation emission after pre-scanned the cellular band between 30MHz ~ 960MHz (WCDMA Band V/LTE Band 5/12/13/14/71/26); only the worst case for cellular band test data of this mode was reported.

2.2. Connection Diagram of Test System



Conduction Test Setup									
No.	**Wireless Station**	**Connection Type**	**Test Mode**						
			1	**2**	**3**	**4**	**5**	**6**	**7**
A1	System Simulator	LTE	X	X	X	X	X	X	X
A2	GPS Station	GPS	X	X	X	X	X	X	X
A3	Notebook	WiFi	X	X	X	X	X	-	X
No.	**Power Source**	**Connection Type**	**1**	**2**	**3**	**4**	**5**	**6**	**7**
B1	AC : 120V/60Hz	AC Power Cable, USB Cable	X	X	X	X	X	X	X
No.	**Setup Peripherals**	**Connection Type**	**1**	**2**	**3**	**4**	**5**	**6**	**7**
C1	Notebook	RJ45 Cable	X	X	X	X	X	X	X
C2	Notebook	RJ45 Cable	X	X	X	X	X	X	X
C3	LTE Antenna*4	Antenna Cable	X	X	X	X	X	X	X
C4	WIFI Antenna*2	Antenna Cable	X	X	X	X	X	X	X
C5	GPS Antenna	Antenna Cable	X	X	X	X	X	X	X

Radiation Test Setup									
No.	**Wireless Station**	**Connection Type**	**Test Mode**						
			1	**2**	**3**	**4**	**5**	**6**	**7**
A1	System Simulator	LTE	X	X	X	X	X	X	X
A2	GPS Station	GPS	X	X	X	X	X	X	X
A3	Notebook	WiFi	X	X	X	X	X	-	-
No.	**Power Source**	**Connection Type**	**1**	**2**	**3**	**4**	**5**	**6**	**7**
B1	AC : 120V/60Hz	AC Power Cable	X	X	X	-	-	X	X
B2	DC : 12V	DC Power Cable	-	-	-	X	-	-	-
B3	DC : 56V	DC Power Cable	-	-	-	-	X	-	-
No.	**Setup Peripherals**	**Connection Type**	**1**	**2**	**3**	**4**	**5**	**6**	**7**
C1	Notebook	RJ45 Cable	X	X	X	X	X	X	X
C2	Notebook	RJ45 Cable	X	X	X	X	X	X	X
C3	WiFi Antenna*2	N/A	X	X	X	X	X	X	X
C4	GPS Antenna	N/A	X	X	X	X	X	X	X
C5	LTE Antenna*4	N/A	X	X	X	X	X	X	X

2.3. Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
3.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P： Unshielded, 1.2m DC O/P： Shielded, 1.8m
4.	DC Power Supply	GW Instek	GEU810960	FCC DoC	N/A	N/A
5.	USB 3.1 Cable	Pismo	E119932-Y	N/A	N/A	N/A
6.	Adapter	BILLION	DCTPD65WZZ-B1	FCC DoC	N/A	N/A

2.4. EUT Operation Test Setup

The EUT was in LTE idle mode during the test. The EUT was synchronized with the BCCH, and had been continuous receiving mode by setting paging reorganization of the system simulator.

At the same time, the EUT was attached to the Notebook and executes ping via WLAN function and the following programs installed in the EUT were programmed during the test:

1. EUT links with Notebook and executes ping via RJ-45
2. Execute “Putty” to make the EUT receive continuous signals from GPS station.

3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1. Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

<Class A>

Frequency of emission (MHz)	Conducted limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	79	66
0.5-30	73	60

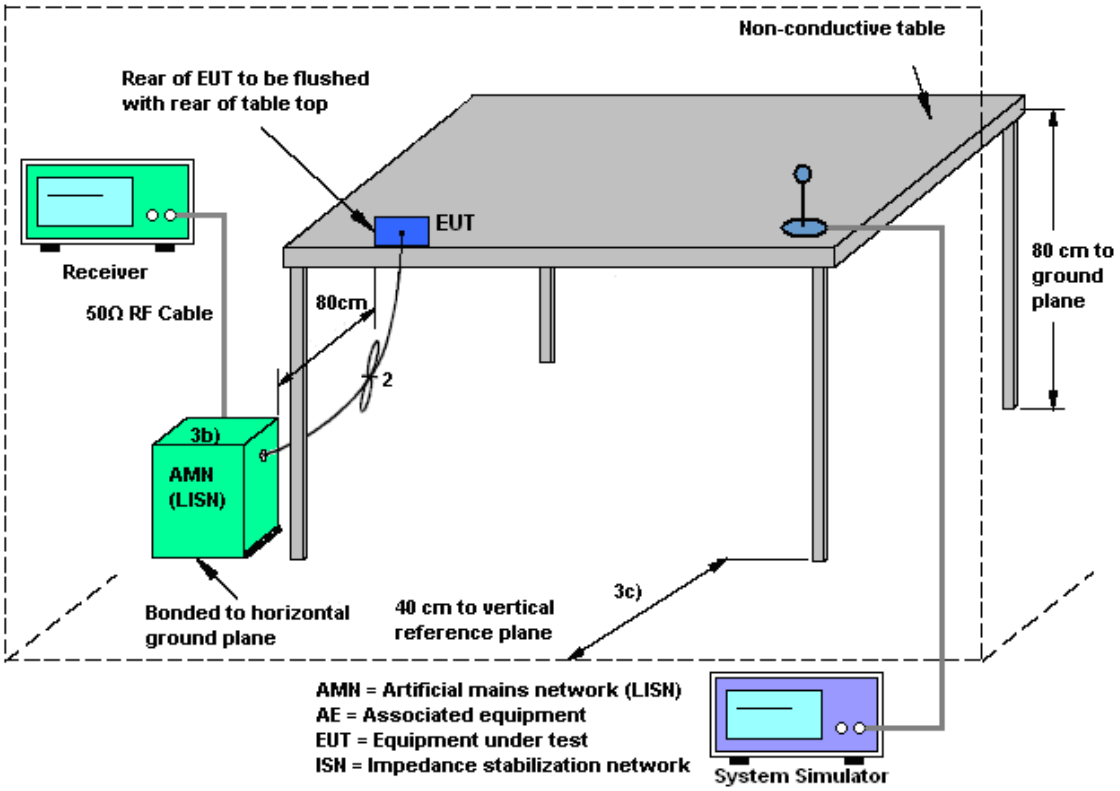
3.1.2. Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3. Test Procedure

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (If Bandwidth = 9 kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.1.4. Test Setup



3.1.5. Test Result of AC Conducted Emission

Please refer to Appendix A.

3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<Class A>

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	300	3

Frequency (MHz)	Field Strength (microvolts/meter)	Field strength (dBuV/m)	Measurement Distance (meters)
30-88	90	39.08	10
88-216	150	43.52	10
216-960	210	46.44	10
Above 960	300	49.54	10

Note: Measurement follows the CISPR 22 limit line as below：

15.109 (g) As an alternative to the radiated emission limits shown in paragraphs (a) and (b) of this section, digital devices may be shown to comply with the standards contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, “Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement”

3.2.2. Measuring Instruments

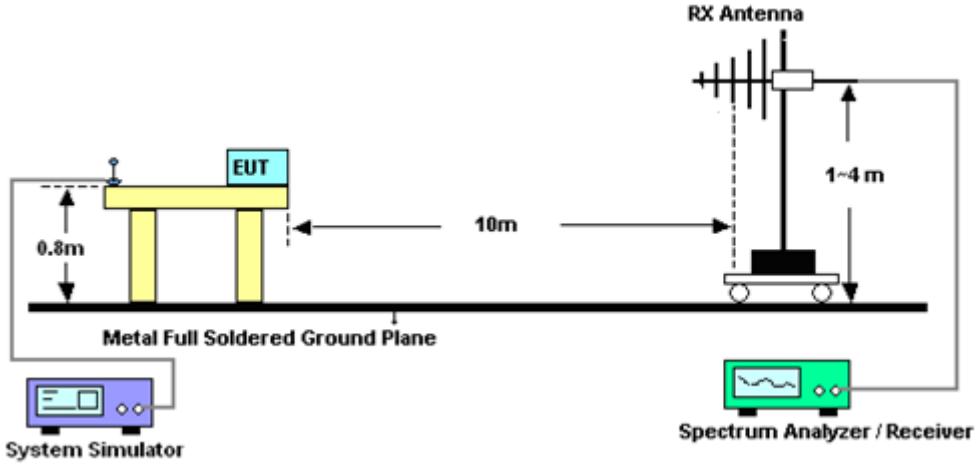
Please refer to the measuring equipment list in this test report.

3.2.3. Test Procedures

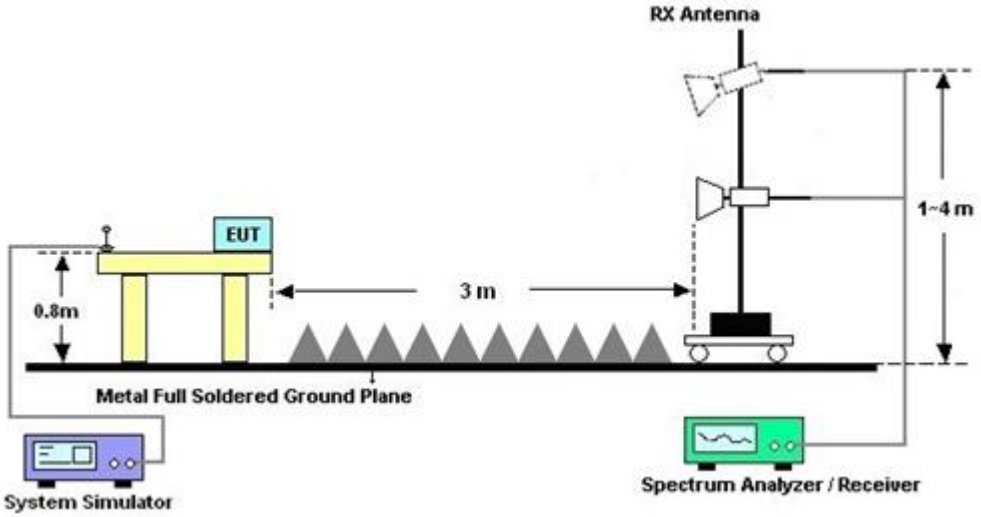
1. The EUT is placed on a turntable with 0.8 meter above ground.
2. The EUT is set 10 meters (30 M~1 G) and 3 meters (1 G~ 13 G) from the interference receiving antenna, which is mounted on the top of a variable height antenna tower.
3. The table is rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120 kHz/VBW=300 kHz for frequency below 1 GHz; RBW=1 MHz VBW=3 MHz (Peak), RBW=1 MHz/VBW=10 Hz (Average) for frequency above 1 GHz).
7. If the emission level of the EUT in peak mode is 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dBμV/m) = 20 log Emission level (μV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

3.2.4. Test Setup of Radiated Emission

For Radiated Emissions from 30 MHz to 1 GHz



For Radiated Emissions above 1 GHz



3.2.5. Test Result of Radiated Emission

Please refer to Appendix B.

4. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	May 22, 2021	Feb. 16, 2022~ Feb. 18, 2022	May 21, 2022	Radiation (03CH06-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1156	1GHz~18GHz	Sep. 27, 2021	Feb. 16, 2022~ Feb. 18, 2022	Sep. 26, 2022	Radiation (03CH06-HY)
Preamplifier	Jet-Power	JPA00101800-30-10P	1601180001	1GHz~18GHz	Jul. 19, 2021	Feb. 16, 2022~ Feb. 18, 2022	Jul. 18, 2022	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	SF102_7000mm	532299/2	30MHz to 40GHz	Jul. 05, 2021	Feb. 16, 2022~ Feb. 18, 2022	Jul. 04, 2022	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	SF102_3000mm	532422/2	30MHz to 40GHz	Jul. 05, 2021	Feb. 16, 2022~ Feb. 18, 2022	Jul. 04, 2022	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	SF102_2000mm	532421/2	30MHz to 40GHz	Jul. 05, 2021	Feb. 16, 2022~ Feb. 18, 2022	Jul. 04, 2022	Radiation (03CH06-HY)
RF Cable	HUBER + SUHNER	SF104	802433/4	30Mhz to 18Ghz	Aug. 19, 2021	Feb. 16, 2022~ Feb. 18, 2022	Aug. 18, 2022	Radiation (03CH06-HY)
Controller	INN-CO	EM1000	060782	Control Turn table & Ant Mast	N/A	Feb. 16, 2022~ Feb. 18, 2022	N/A	Radiation (03CH06-HY)
Antenna Mast	MF	MF-7802	MF780208212	1m~4m	N/A	Feb. 16, 2022~ Feb. 18, 2022	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0-360 degree	N/A	Feb. 16, 2022~ Feb. 18, 2022	N/A	Radiation (03CH06-HY)
Software	Audix	E3 6.2009-8-24(k5)	N/A	N/A	N/A	Feb. 16, 2022~ Feb. 18, 2022	N/A	Radiation (03CH06-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Feb. 19, 2022	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2021	Feb. 19, 2022	Nov. 30, 2022	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2021	Feb. 19, 2022	Nov. 16, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 03, 2021	Feb. 19, 2022	Dec. 02, 2022	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Feb. 19, 2022	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 28, 2021	Feb. 19, 2022	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 30, 2021	Feb. 19, 2022	Dec. 29, 2022	Conduction (CO05-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	Agilent	8447D	2944A07468	10 kHz ~ 1.3GHz	Nov. 30, 2021	Mar. 08, 2022	Nov. 29, 2022	Radiation (OS04-LK)
Spectrum Analyzer	R&S	FSP 7	838858/037	9 kHz ~ 7 GHz	May 26, 2021	Mar. 08, 2022	May 25, 2022	Radiation (OS04-LK)
Test Receiver	R&S	ESCS 30	838251/003	9 kHz ~ 2.75 GHz	Aug. 11, 2021	Mar. 08, 2022	Aug. 10, 2022	Radiation (OS04-LK)
Bilog Antenna with 5dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-05	35377 & AT-N0518	30 MHz ~ 2 GHz	Jul. 03, 2021	Mar. 08, 2022	Jul. 02, 2022	Radiation (OS04-LK)
Turn Table	EMCO	2080	9711-2021	0 ~ 360 degree	NCR	Mar. 08, 2022	NCR	Radiation (OS04-LK)
Antenna Mast	EMCO	2075	9711-2115	1 m ~ 4 m	NCR	Mar. 08, 2022	NCR	Radiation (OS04-LK)
RF Cable-R10m	Woken	CFD400NL-LW	CB011	30 MHz ~ 1 GHz	Dec. 08, 2021	Mar. 08, 2022	Dec. 07, 2022	Radiation (OS04-LK)
Software	Audix	E3	Version:4	-	NCR	Mar. 08, 2022	NCR	Radiation (OS04-LK)

5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.1 dB**

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.74 dB**

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.4 dB**

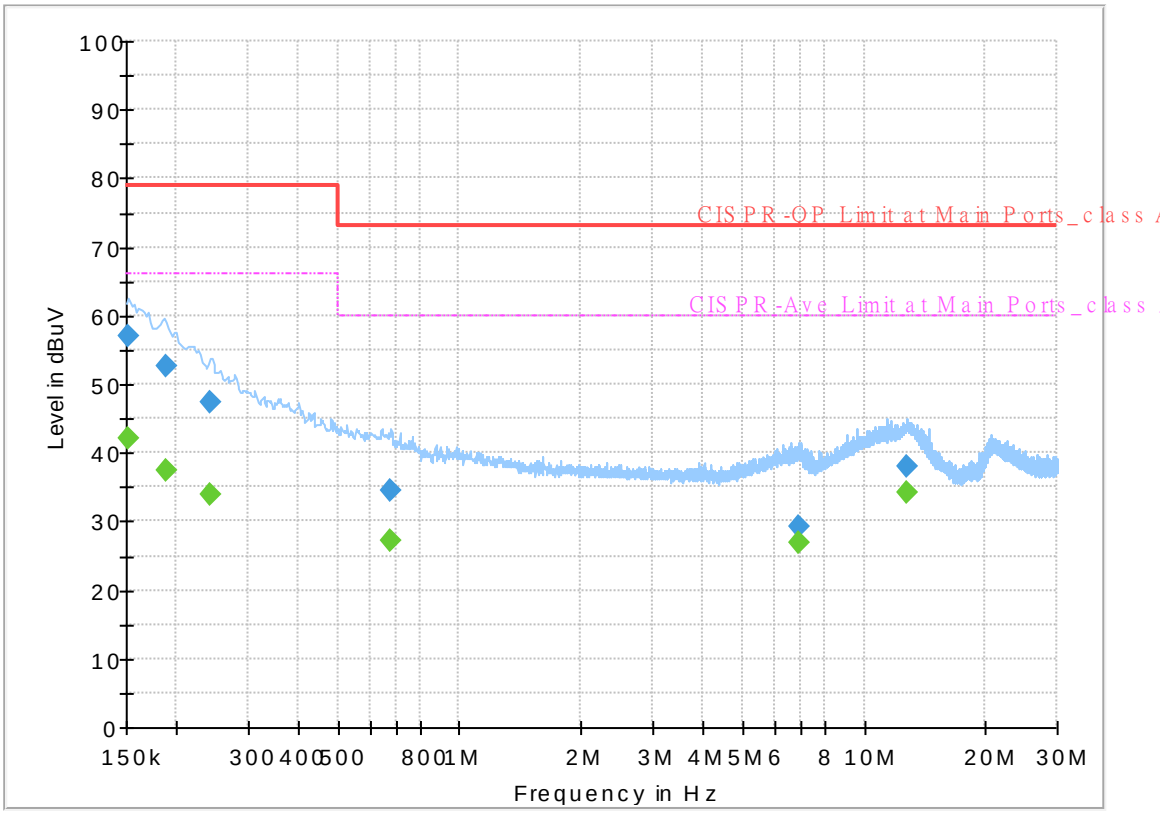
Appendix A. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	**Temperature :**	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO :	211326
Test Mode :	Mode 2
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



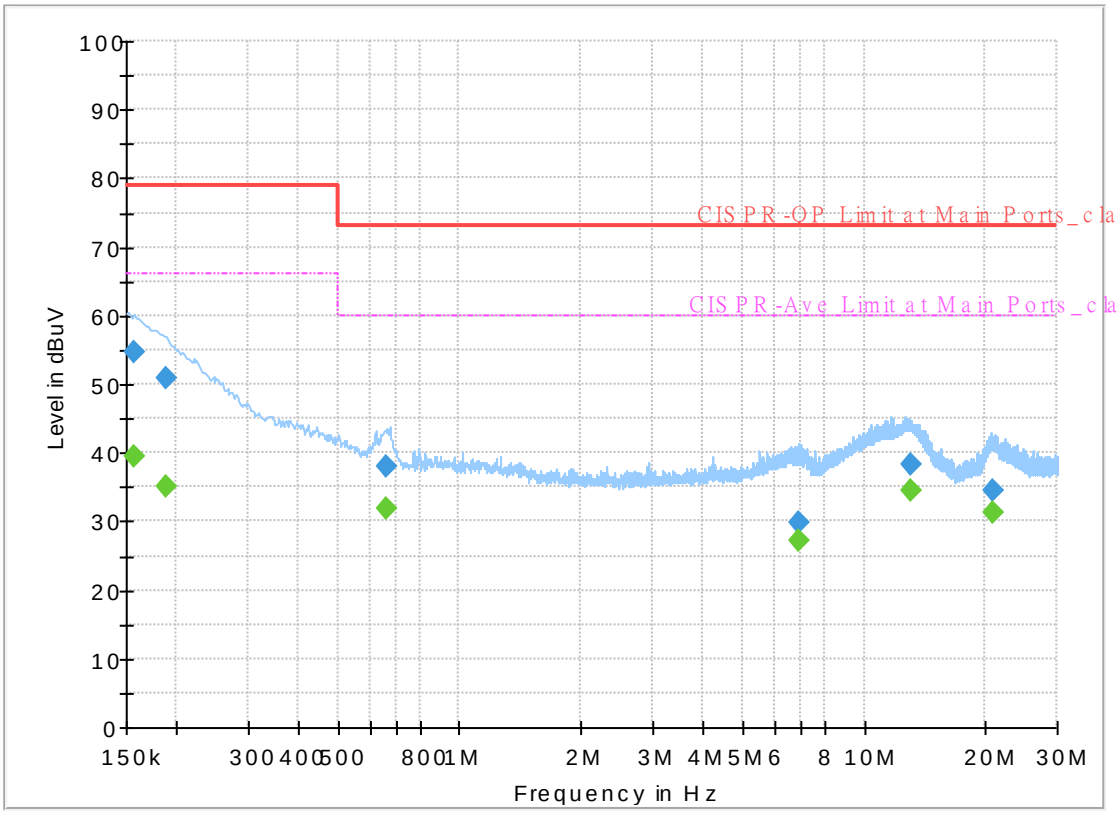
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	42.12	66.00	23.88	L1	OFF	19.6
0.152250	57.14	---	79.00	21.86	L1	OFF	19.6
0.188250	---	37.51	66.00	28.49	L1	OFF	19.6
0.188250	52.67	---	79.00	26.33	L1	OFF	19.6
0.242250	---	33.89	66.00	32.11	L1	OFF	19.6
0.242250	47.47	---	79.00	31.53	L1	OFF	19.6
0.678750	---	27.18	60.00	32.82	L1	OFF	19.6
0.678750	34.48	---	73.00	38.52	L1	OFF	19.6
6.933750	---	26.78	60.00	33.22	L1	OFF	19.9
6.933750	29.30	---	73.00	43.70	L1	OFF	19.9
12.772500	---	34.25	60.00	25.75	L1	OFF	20.1
12.772500	37.99	---	73.00	35.01	L1	OFF	20.1

EUT Information

Report NO :	211326
Test Mode :	Mode 2
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum

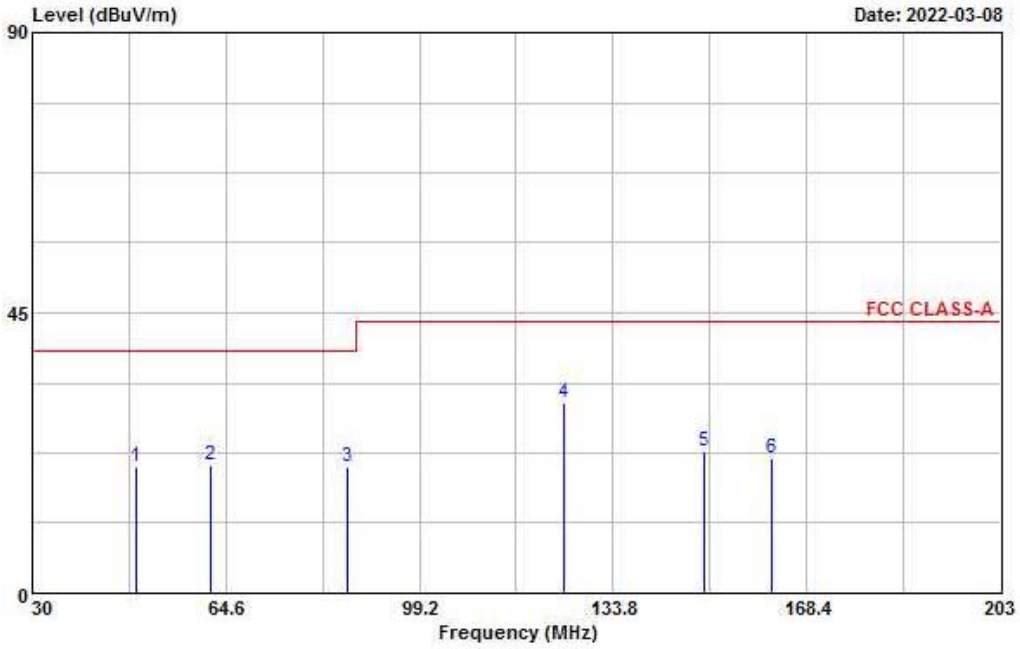


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	39.45	66.00	26.55	N	OFF	19.6
0.156750	54.58	---	79.00	24.42	N	OFF	19.6
0.188250	---	35.09	66.00	30.91	N	OFF	19.6
0.188250	50.89	---	79.00	28.11	N	OFF	19.6
0.663000	---	31.82	60.00	28.18	N	OFF	19.6
0.663000	37.99	---	73.00	35.01	N	OFF	19.6
6.866250	---	27.29	60.00	32.71	N	OFF	19.9
6.866250	29.83	---	73.00	43.17	N	OFF	19.9
12.995250	---	34.53	60.00	25.47	N	OFF	20.2
12.995250	38.37	---	73.00	34.63	N	OFF	20.2
20.739750	---	31.36	60.00	28.64	N	OFF	20.5
20.739750	34.49	---	73.00	38.51	N	OFF	20.5

Appendix B. Radiated Emission Test Result

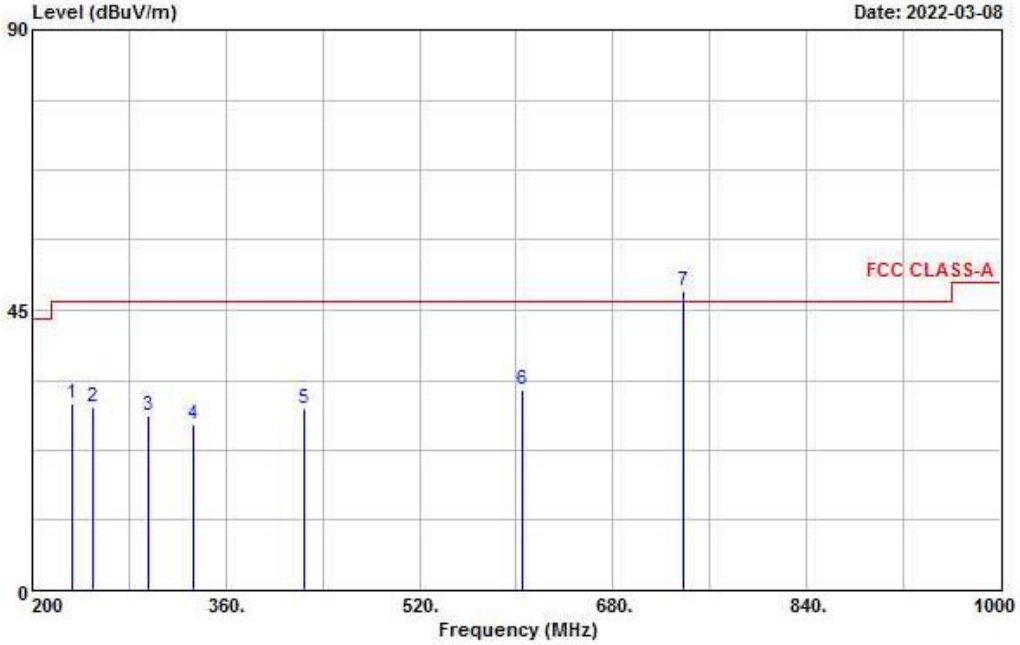
Test Engineer :	Giant Chen	**Temperature :**	21~26°C
		Relative Humidity :	51~56%
Test Distance :	10m	**Polarization :**	Horizontal



Site : OS04-LK
Condition : FCC CLASS-A 10m HORIZONTAL
Project : 211326
Power : 120VAC/60Hz
Mode : Mode 7

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm
1	48.510	20.20	-18.80	39.00	32.51	14.20	27.62	1.11	Peak	---	---
2	61.830	20.57	-18.43	39.00	35.42	11.50	27.59	1.24	Peak	---	---
3	86.400	20.39	-18.61	39.00	32.99	13.41	27.50	1.49	Peak	---	---
4	124.980	30.46	-13.04	43.50	38.92	17.19	27.33	1.68	Peak	360	400
5	150.060	22.73	-20.77	43.50	32.32	15.80	27.19	1.80	Peak	---	---
6	162.170	21.73	-21.77	43.50	31.83	15.17	27.13	1.86	Peak	---	---

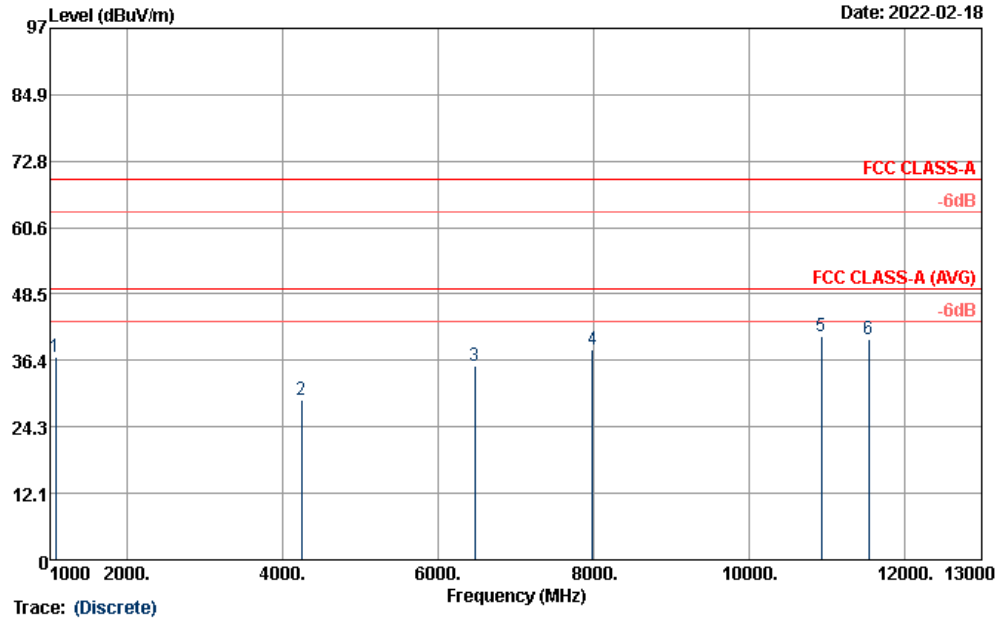
Test Engineer :	Giant Chen	**Temperature :**	21~26°C
		Relative Humidity :	51~56%
Test Distance :	10m	**Polarization :**	Horizontal
Remark :	#7 is system simulator signal which can be ignored.		



Site : OS04-LK
Condition : FCC CLASS-A 10m HORIZONTAL
Project : 211326
Power : 120VAC/60Hz
Mode : Mode 7

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm
1	233.600	29.92	-16.48	46.40	38.42	15.88	26.74	2.36	Peak	---	---
2	249.600	29.50	-16.90	46.40	36.15	17.57	26.66	2.44	Peak	---	---
3	295.200	27.98	-18.42	46.40	33.71	18.40	26.68	2.55	Peak	---	---
4	332.800	26.76	-19.64	46.40	31.83	19.01	26.90	2.82	Peak	---	---
5	424.000	29.19	-17.21	46.40	31.67	21.89	27.55	3.18	Peak	---	---
6	604.800	32.34	-14.06	46.40	32.46	23.80	27.99	4.07	Peak	---	---
7 X	737.500	48.14	1.74			24.79	27.80	4.74	Peak	---	---

Test Engineer :	You Xian Chen	**Temperature :**	22~24˚C
		Relative Humidity :	48~55%
Test Distance :	3m	**Polarization :**	Horizontal

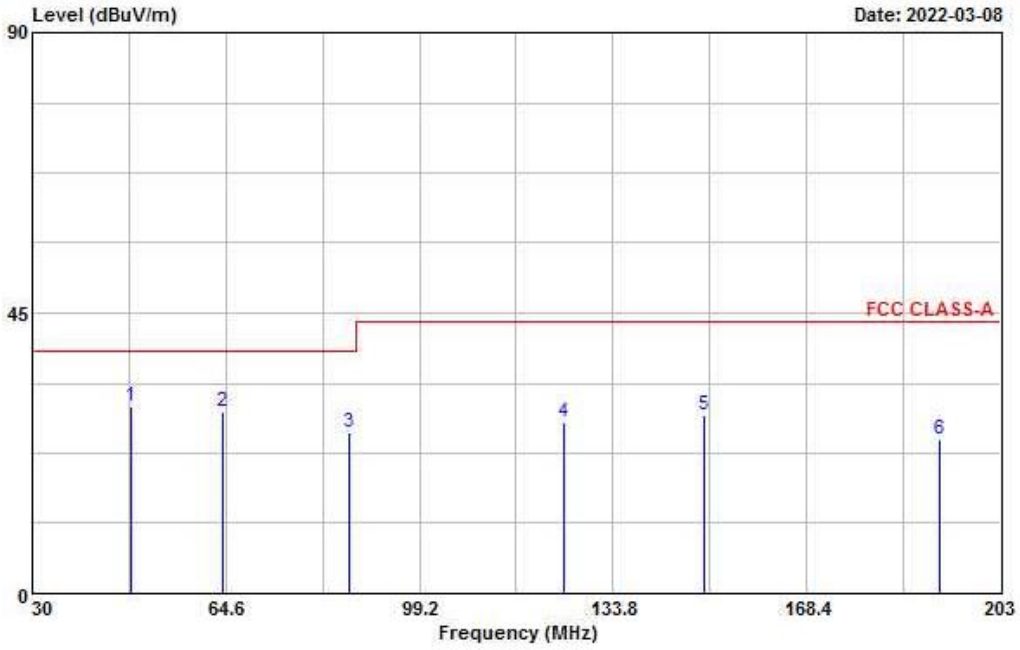


Trace: (Discrete)

Site : 03CH06-HY
Condition : FCC CLASS-A 3m 9120D_1156 HORIZONTAL
Project : 211326
Power : 120Vac/60Hz
Memo : Mode 7

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	cm	deg	
1	1070.00	37.06	-32.48	69.54	80.46	-43.40	---	---	Peak
2	4240.00	29.25	-40.29	69.54	61.42	-32.17	---	---	Peak
3	6474.00	35.40	-34.14	69.54	61.04	-25.64	---	---	Peak
4	7992.00	38.28	-31.26	69.54	59.97	-21.69	---	---	Peak
5	10938.00	40.92	-28.62	69.54	56.55	-15.63	---	---	Peak
6	11550.00	40.17	-29.37	69.54	55.92	-15.75	---	---	Peak

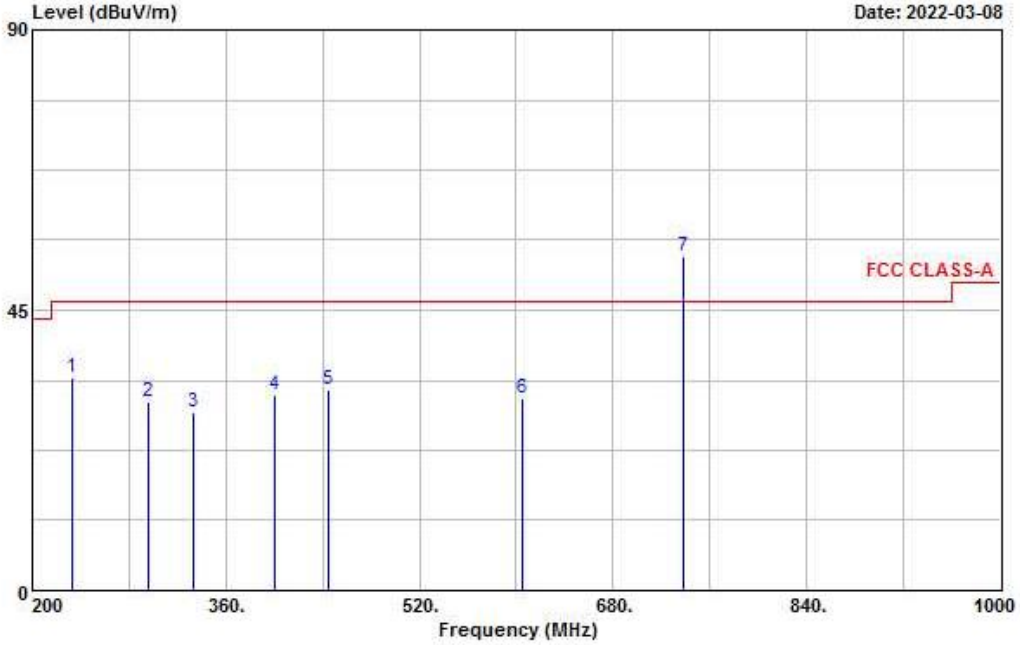
Test Engineer :	Giant Chen	**Temperature :**	21~26°C
		Relative Humidity :	51~56%
Test Distance :	10m	**Polarization :**	Vertical



Site : OS04-LK
Condition : FCC CLASS-A 10m VERTICAL
Project : 211326
Power : 120VAC/60Hz
Mode : Mode 7

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm
1	47.650	30.03	-8.97	39.00	41.87	14.68	27.62	1.10	Peak	---	---
2	64.080	29.18	-9.82	39.00	44.02	11.49	27.58	1.25	Peak	---	---
3	86.570	25.80	-13.20	39.00	38.40	13.41	27.50	1.49	Peak	---	---
4	125.000	27.54	-15.96	43.50	36.00	17.19	27.33	1.68	QP	186	100
5	150.060	28.61	-14.89	43.50	38.20	15.80	27.19	1.80	Peak	---	---
6	192.100	24.68	-18.82	43.50	35.25	14.24	26.95	2.14	Peak	---	---

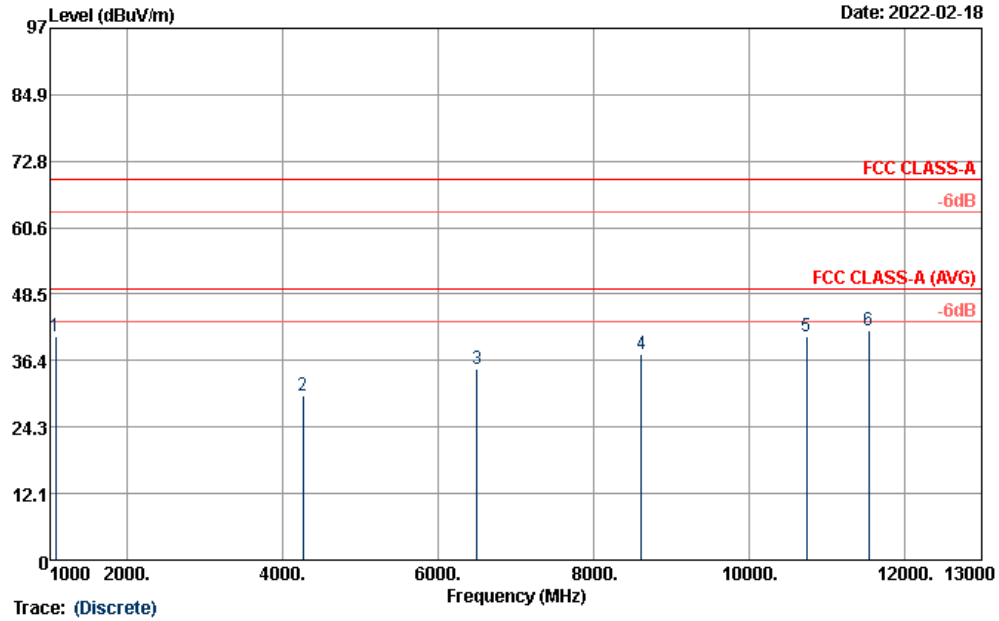
Test Engineer :	Giant Chen	**Temperature :**	21~26°C
		Relative Humidity :	51~56%
Test Distance :	10m	**Polarization :**	Vertical
Remark :	#7 is system simulator signal which can be ignored.		



Site : OS04-LK
Condition : FCC CLASS-A 10m VERTICAL
Project : 211326
Power : 120VAC/60Hz
Mode : Mode 7

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Remark	Table Pos	Ant Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		deg	cm
1	233.600	34.23	-12.17	46.40	42.73	15.88	26.74	2.36	Peak	---	---
2	295.200	30.27	-16.13	46.40	36.00	18.40	26.68	2.55	Peak	---	---
3	332.800	28.61	-17.79	46.40	33.68	19.01	26.90	2.82	Peak	---	---
4	400.800	31.44	-14.96	46.40	34.68	21.12	27.43	3.07	Peak	---	---
5	444.800	32.19	-14.21	46.40	34.57	21.98	27.65	3.29	Peak	---	---
6	604.800	30.79	-15.61	46.40	30.91	23.80	27.99	4.07	Peak	---	---
7 @	737.500	53.63	7.23			24.79	27.80	4.74	Peak	---	---

Test Engineer :	You Xian Chen	**Temperature :**	22~24˚C
		Relative Humidity :	48~55%
Test Distance :	3m	**Polarization :**	Vertical



Trace: (Discrete)

Site : 03CH06-HY
Condition : FCC CLASS-A 3m 9120D_1156 VERTICAL
Project : 211326
Power : 120Vac/60Hz
Memo : Mode 7

	Freq	Level	Over Limit	Limit Line	Read Level	Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	cm	deg	
1	1070.00	40.89	-28.65	69.54	84.29	-43.40	---	---	Peak
2	4262.00	29.87	-39.67	69.54	61.96	-32.09	---	---	Peak
3	6498.00	34.87	-34.67	69.54	60.33	-25.46	---	---	Peak
4	8614.00	37.65	-31.89	69.54	58.83	-21.18	---	---	Peak
5	10742.00	40.68	-28.86	69.54	57.15	-16.47	---	---	Peak
6	11550.00	41.97	-27.57	69.54	57.72	-15.75	---	---	Peak