



# FCC EMI TEST REPORT

**FCC ID** : U8G-P1930LITER6M

**Equipment** : PEPWAVE / peplink Wireless Product

**Brand Name** : PEPWAVE / peplink

**Model Name** : MAX BR1 Mini Core  
 MAX BR1 Mini Core LTE  
 MAX BR1 Mini Core LTEA  
 Pepwave MAX BR1 Mini Core  
 Pepwave MAX BR1 Mini Core LTE  
 Pepwave MAX BR1 Mini Core LTEA  
 Peplink MAX BR1 Mini Core  
 Peplink MAX BR1 Mini Core LTE  
 Peplink MAX BR1 Mini Core LTEA  
 MAX-BR1-MINI-LTE-US-T-M  
 MAX-BR1-MINI-LTEA-W-T-M

**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 May 12, 2021 and testing was started from May 20, 2021 and completed on Jun. 01, 2021. 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 of Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



*Louis Wu*

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**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.....	4
Summary of Test Result.....	5
<b>1. General Description .....</b>	<b>6</b>
1.1. Product Feature of Equipment Under Test .....	6
1.2. Modification of EUT .....	6
1.3. Test Location .....	7
1.4. Applicable Standards .....	7
<b>2. Test Configuration of Equipment Under Test .....</b>	<b>8</b>
2.1. Test Mode .....	8
2.2. Connection Diagram of Test System .....	9
2.3. Support Unit used in test configuration and system.....	10
2.4. EUT Operation Test Setup .....	10
<b>3. Test Result .....</b>	<b>11</b>
3.1. Test of AC Conducted Emission Measurement .....	11
3.2. Test of Radiated Emission Measurement .....	13
<b>4. List of Measuring Equipment.....</b>	<b>16</b>
<b>5. Uncertainty of Evaluation .....</b>	<b>18</b>
<b>Appendix A. AC Conducted Emission Test Result</b>	
<b>Appendix B. Radiated Emission Test Result</b>	



### History of this test report

Report No.	Version	Description	Issued Date
FC142240	01	Initial issue of report	Jun. 07, 2021



### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.107	AC Conducted Emission	Pass	Under limit 18.24 dB at 14.335 MHz
3.2	15.109	Radiated Emission	Pass	Under limit 12.68 dB at 225.000 MHz for Quasi-Peak

**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.

**Reviewed by: Lewis Ho**

**Report Producer: Amy Chen**



# 1. General Description

## 1.1. Product Feature of Equipment Under Test

WCDMA/LTE.

Product Specification subjective to this standard	
Integrated WWAN Module 1	Brand Name: Telit Model Name: LE910C4-NF FCC ID: R17LE910CXNF
Integrated WWAN Module 2	Brand Name: Sierra Model Name: MC7455 FCC ID: N7NMC7455
Sample 1	EUT with WWAN module 1 (LE910C4-NF)
Sample 2	EUT with WWAN module 2 (MC7455)
Antenna Type	Omni-directional Antenna

**Remark:**

1. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.
2. The product will integrate the cellular module (LE910C4-NF, MC7455). 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 test. Equipment authorization to integrate the cellular module will follow the FCC modular approval policy and procedures.

## 1.2. Modification of EUT

No modifications are made to the EUT during all test items.

### 1.3. Test Location

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

<b>Test Site</b>	Sporton International Inc. Wensan Laboratory
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
<b>Test Site No.</b>	<b>Sporton Site No.</b> 03CH10-HY (TAF Code: 3786)
<b>Remark:</b>	The Radiated Emission above 1GHz test item subcontracted to Sporton International Inc. Wensan Laboratory

<b>Test Site</b>	Sporton International Inc. EMC & Wireless Communications Laboratory
<b>Test Site Location</b>	No.30-2, Dingfu Vil., Linkou Dist., New Taipei City 244, Taiwan (R.O.C.) TEL: +886-2-2603-5367 / +886-2-2601-1640 FAX: +886-2-2601-1695
<b>Test Site No.</b>	<b>Sporton Site No.</b> OS04-LK

FCC designation No.: TW1093, TW1132 and TW1095

### 1.4. Applicable Standards

According to the specifications of 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

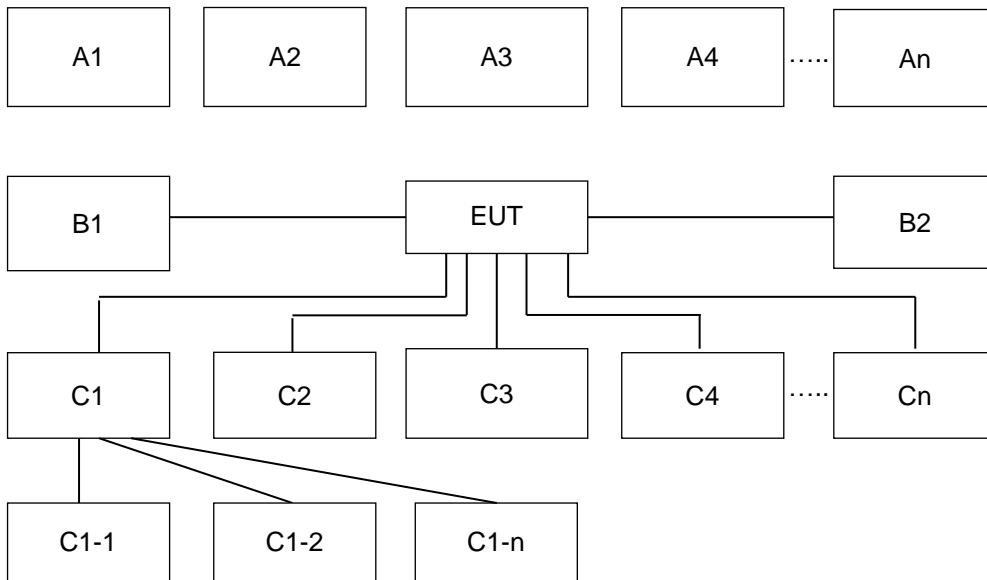
The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
<b>AC Conducted Emission</b>	Mode 1: WCDMA Band V Idle + LAN Link + WAN Link + Adapter + SIM A for Sample 1
	Mode 2: LTE Band 13 Idle + LAN Link + PoE IN (WAN) + SIM B for Sample 1
	Mode 3: LTE Band 13 Idle + LAN Link + PoE IN (WAN) + SIM B for Sample 2
<b>Radiated Emissions</b>	Mode 1: WCDMA Band V Idle + LAN Link + WAN Link + Adapter + SIM A for Sample 1
	Mode 2: LTE Band 5 Idle + LAN Link + WAN Link + DC 12V + SIM B for Sample 1
	Mode 3: LTE Band 12 Idle + LAN Link + WAN Link + DC 48V + SIM A for Sample 1
	Mode 4: LTE Band 13 Idle + LAN Link + PoE IN (WAN) + SIM B for Sample 1
	Mode 5: LTE Band 13 Idle + LAN Link + PoE IN (WAN) + SIM B for Sample 2
<b>Remark:</b>	
<ol style="list-style-type: none"> <li>1. The worst case of AC is mode 2; only the test data of this mode was reported.</li> <li>2. The worst case of RE is mode 4; only the test data of this mode was reported.</li> <li>3. For radiation emission after pre-scanned the cellular band between 30MHz ~ 960MHz (LTE Band 5/12/13); only the worst case for cellular band test data of this mode was reported.</li> </ol>	



## 2.2. Connection Diagram of Test System



Conduction Test Setup									
No.	Wireless Station	Connection Type	Test Mode						
			1	2	3	-	-	-	-
A1	System Simulator	WCDMA/LTE	X	X	X	-	-	-	-
No.	Power Source	Connection Type	1	2	3	-	-	-	-
B1	AC : 120V/60Hz	AC Power Cable	X	-	-	-	-	-	-
B2	POE	AC Power Cable	-	X	X	-	-	-	-
No.	Setup Peripherals	Connection Type	1	2	3	-	-	-	-
C1	Notebook	RJ-45 Cable	X	X	X	-	-	-	-
C2	Notebook	RJ-45 Cable	X	X	X	-	-	-	-

Radiation Test Setup									
No.	Wireless Station	Connection Type	Test Mode						
			1	2	3	4	5	-	-
A1	System Simulator	WCDMA/LTE	x	x	x	x	x	-	-
No.	Power Source	Connection Type	1	2	3	4	5	-	-
B1	AC : 120V/60Hz	AC Power Cable	x	-	-	-	-	-	-
B2	DC : 12V	DC Power Cable	-	x	-	-	-	-	-
B3	DC : 48V	DC Power Cable	-	-	x	-	-	-	-
B4	POE	AC Power Cable	-	-	-	x	x	-	-
No.	Setup Peripherals	Connection Type	1	2	3	4	5	-	-
C1	Notebook	RJ-45 Cable to AP	x	x	x	-	-	-	-
C2	Notebook	RJ-45 Cable to EUT	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	MT8820C	N/A	N/A	Unshielded,1.8m
2.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	Dell	Latitude 5480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	POE	BILLION	BP035-560054QAX	FCC DoC	N/A	Unshielded,1.8m
5.	Power Supply	GWINSTEK	GPE-2323	N/A	N/A	Unshielded,1.8m

### 2.4. EUT Operation Test Setup

The EUT was in WCDMA or 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.

1. EUT links with Notebook and executes ping via RJ-45, LAN Port and WAN Port

### 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

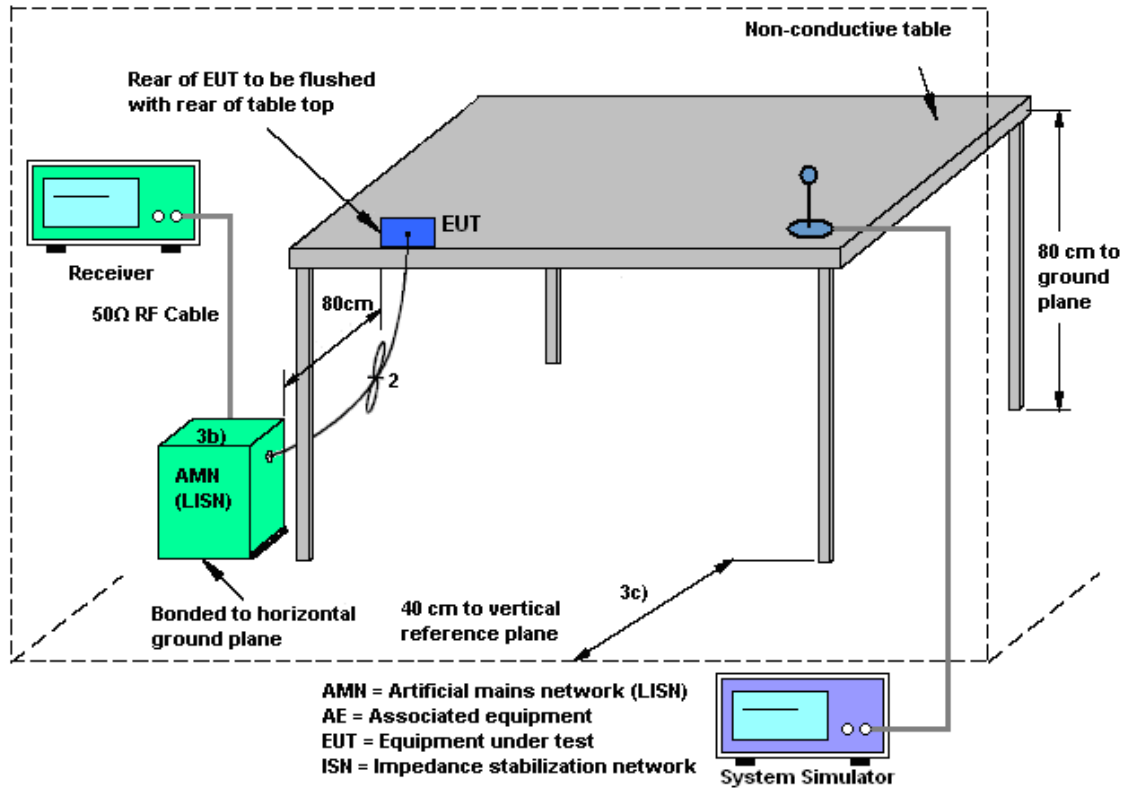
##### 3.1.2. Measuring Instruments

Refer a test equipment and calibration data table in this test report.

##### 3.1.3. Test Procedure

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was 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 sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) 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)
30 – 88	90	10
88 – 216	150	10
216 - 960	210	10
Above 960	300	10

**Remark:**

1. A disclaimer from test lab., based on the FCC Part 15.31(f)(1) standard applicability, the results which are consents by manufacturer, are extrapolated to the specified 10m distance using an extrapolation factor of 20 dB/decade, an Aux factor corrected for the test result tested at 3m distance, and which are declared by manufacturer, are not impacted by near field effect due to the characteristic of EUT, when measurement between frequency 30MHz to 1GHz.
2. Follows the 15.109 (g) (2), measurements above 1000 MHz may be performed at the distance specified in the CISPR 22 publications is extrapolated to the new measurement distance using an inverse linear distance extrapolation factor (20 dB/decade).

### 3.2.2. Measuring Instruments

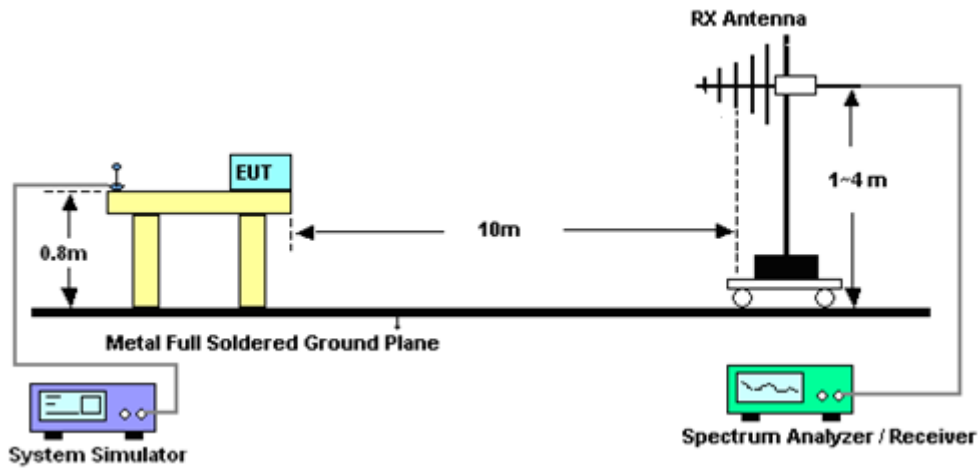
Refer a test equipment and calibration data table in this test report.

**3.2.3. Test Procedures**

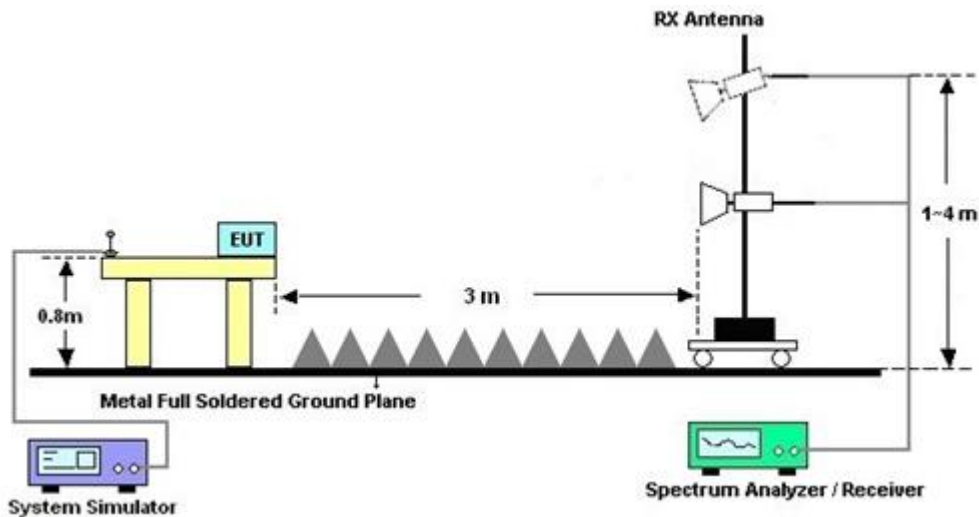
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 10 meters (30M~1G) and 3 meters (1G~ 13G) from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the 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 was 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 was 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 (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/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 30MHz to 1GHz



For radiated emissions above 1GHz



### 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
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Aug. 04, 2020	May 20, 2021~ May 27, 2021	Aug. 03, 2021	Radiation (03CH10-HY)
Preamplifier	Jet-Power	JAP00101800-30-10P	160118550004	1GHz~18GHz	Mar. 01, 2021	May 20, 2021~ May 27, 2021	Feb. 28, 2022	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY53470118	10Hz~44GHz	Jan. 15, 2021	May 20, 2021~ May 27, 2021	Jan. 14, 2022	Radiation (03CH10-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	May 20, 2021~ May 27, 2021	N/A	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	May 20, 2021~ May 27, 2021	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	May 20, 2021~ May 27, 2021	N/A	Radiation (03CH10-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	May 20, 2021~ May 27, 2021	N/A	Radiation (03CH10-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290045	20MHz~8.4GHz	Jan. 13, 2021	May 20, 2021~ May 27, 2021	Jan. 12, 2022	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	30MHz~1GHz	Nov. 06, 2020	May 20, 2021~ May 27, 2021	Nov. 05, 2021	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	1GHz~18GHz	Nov. 06, 2020	May 20, 2021~ May 27, 2021	Nov. 05, 2021	Radiation (03CH10-HY)
Amplifier	Agilent	8447D	2944A07468	10 kHz ~ 1.3GHz	Dec. 01, 2020	Jun. 01, 2021	Nov. 30, 2021	Radiation (OS04-LK)
Spectrum Analyzer	R&S	FSP 30	100792	9 kHz ~ 30 GHz	Jun. 08, 2020	Jun. 01, 2021	Jun. 07, 2021	Radiation (OS04-LK)
Test Receiver	R&S	ESCS 30	838251/003	9 kHz ~ 2.75 GHz	Aug. 12, 2020	Jun. 01, 2021	Aug. 11, 2021	Radiation (OS04-LK)
Bilog Antenna with 5dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-05	35377 & AT-N0518	30 MHz ~ 2 GHz	Jul. 05, 2020	Jun. 01, 2021	Jul. 04, 2021	Radiation (OS04-LK)
Turn Table	EMCO	2080	9711-2021	0 ~ 360 degree	NCR	Jun. 01, 2021	NCR	Radiation (OS04-LK)
Antenna Mast	EMCO	2075	9711-2115	1 m ~ 4 m	NCR	Jun. 01, 2021	NCR	Radiation (OS04-LK)
RF Cable-R10m	Woken	CFD400NL-LW	CB011	30 MHz ~ 1 GHz	Dec. 10, 2020	Jun. 01, 2021	Dec. 09, 2021	Radiation (OS04-LK)
Software	Audix	E3	Version:4	-	NCR	Jun. 01, 2021	NCR	Radiation (OS04-LK)





Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	May 26, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	May 26, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	May 26, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	May 26, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	May 26, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	May 26, 2021	Feb. 24, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	May 26, 2021	Dec. 30, 2021	Conduction (CO05-HY)



## 5. Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.30
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.81
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.10
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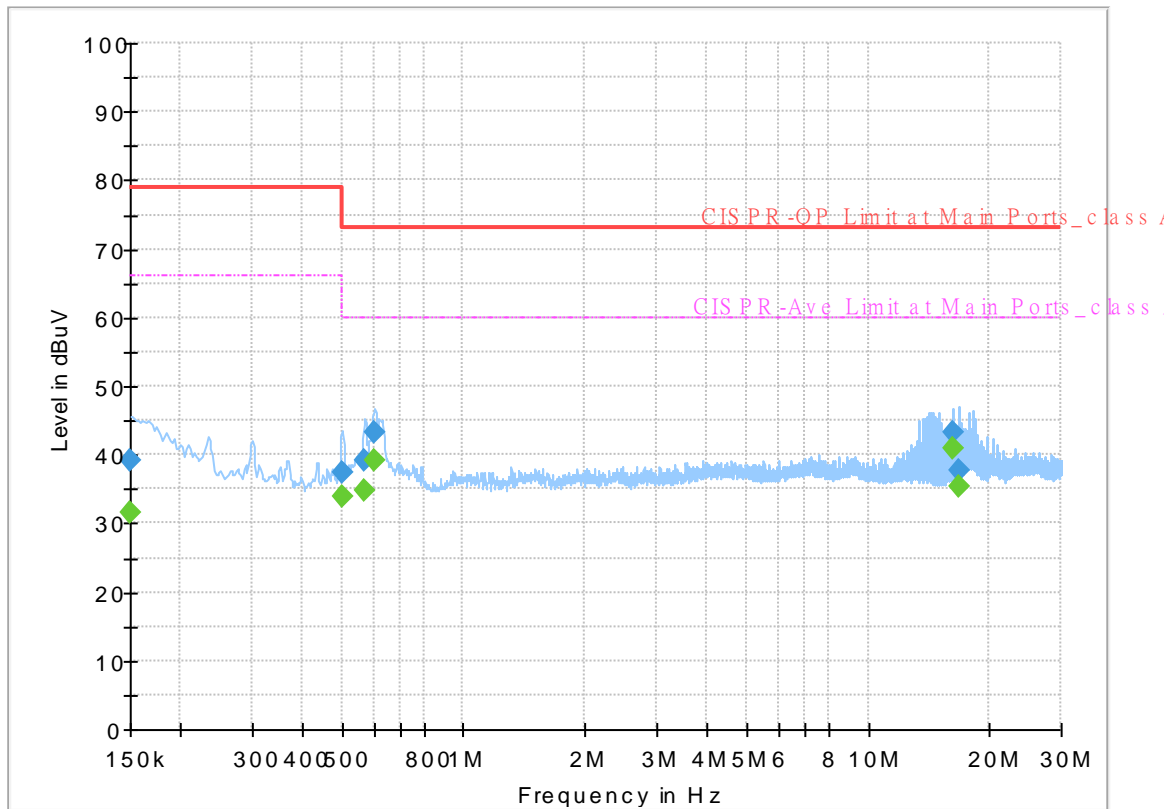
## Appendix A. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	Temperature :	23~26°C
		Relative Humidity :	40~50%

## EUT Information

Report NO : 142240  
 Test Mode : Mode 2  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



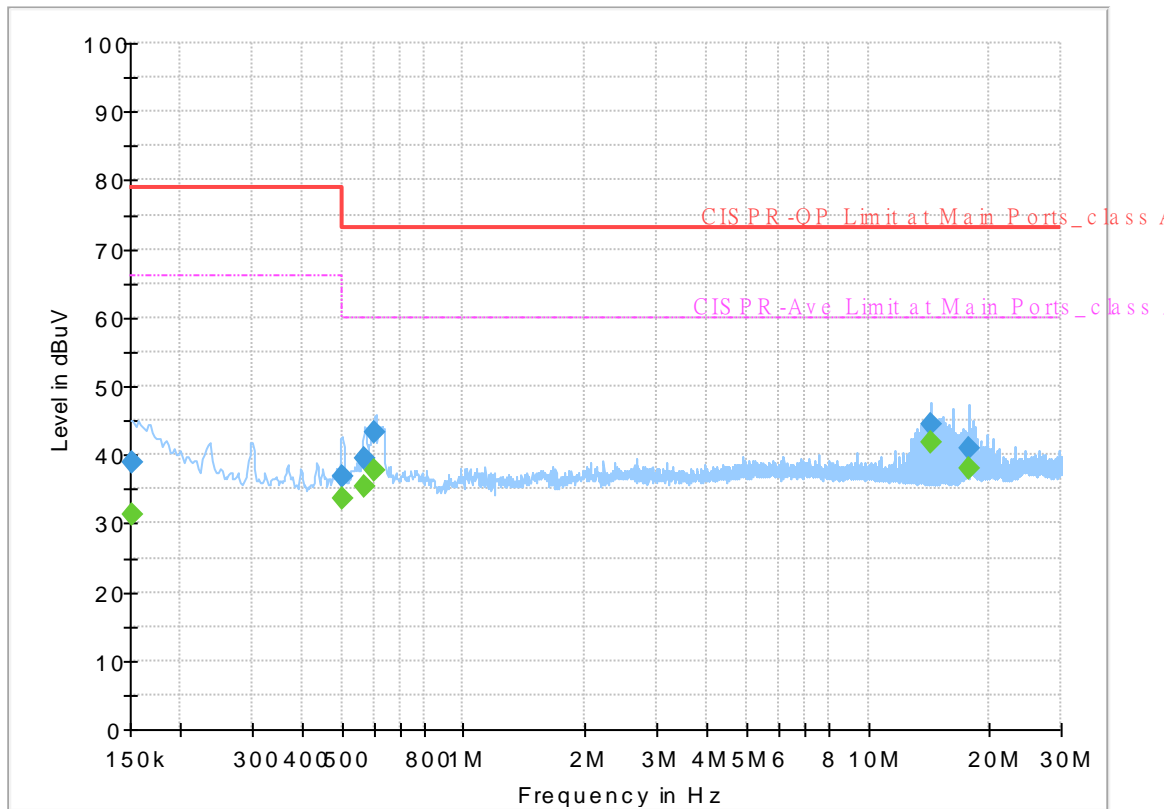
## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	31.50	66.00	34.50	L1	OFF	19.5
0.150000	39.10	---	79.00	39.90	L1	OFF	19.5
0.501000	---	33.96	60.00	26.04	L1	OFF	19.7
0.501000	37.49	---	73.00	35.51	L1	OFF	19.7
0.570750	---	34.73	60.00	25.27	L1	OFF	19.7
0.570750	39.15	---	73.00	33.85	L1	OFF	19.7
0.602250	---	39.05	60.00	20.95	L1	OFF	19.8
0.602250	43.32	---	73.00	29.68	L1	OFF	19.8
16.227870	---	40.93	60.00	19.07	L1	OFF	20.2
16.227870	43.35	---	73.00	29.65	L1	OFF	20.2
16.777950	---	35.25	60.00	24.75	L1	OFF	20.3
16.777950	37.75	---	73.00	35.25	L1	OFF	20.3

## EUT Information

Report NO : 142240  
 Test Mode : Mode 2  
 Test Voltage : 120Vac/60Hz  
 Phase : Neutral

### Full Spectrum

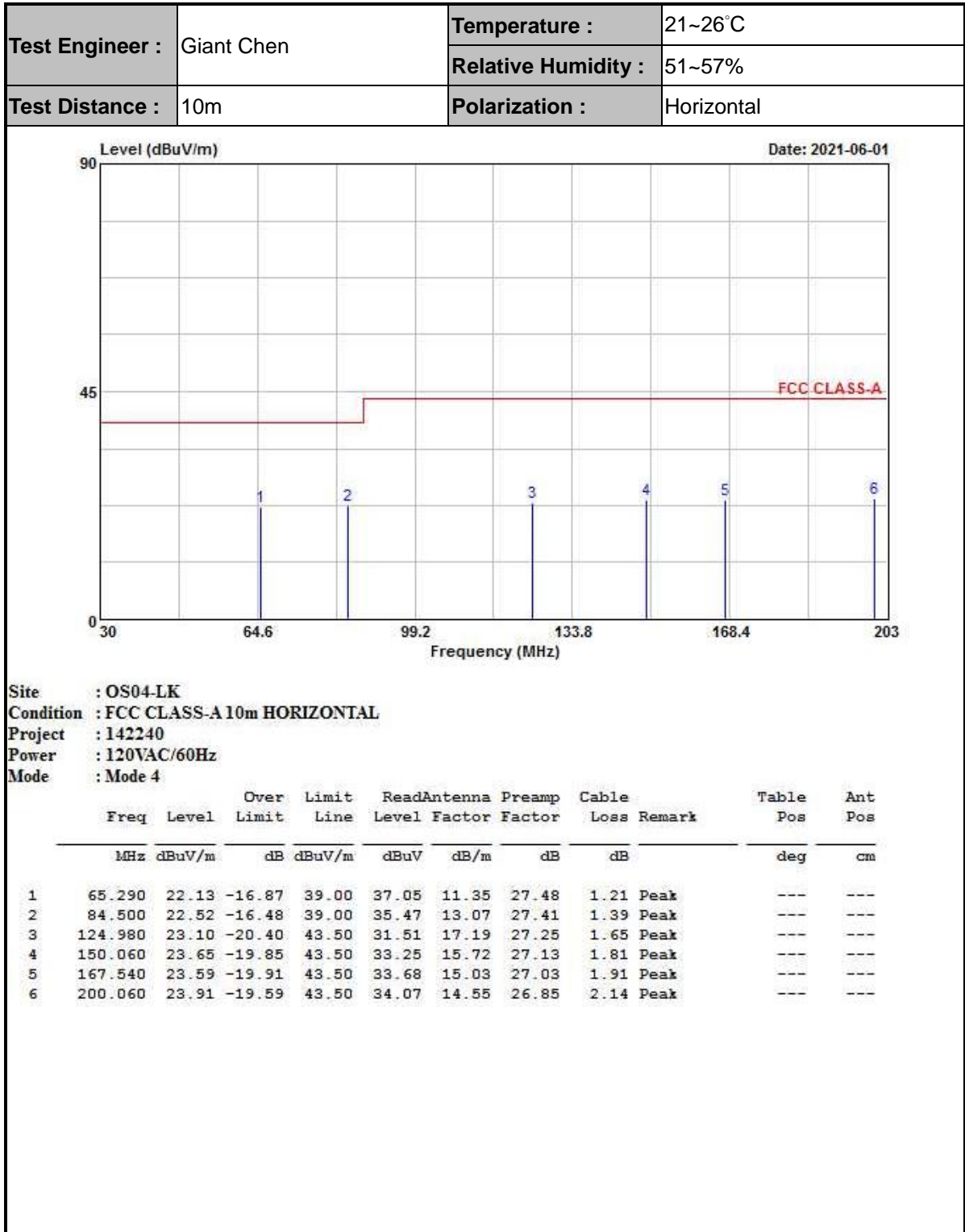


## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.151080	---	31.30	66.00	34.70	N	OFF	19.5
0.151080	38.75	---	79.00	40.25	N	OFF	19.5
0.501810	---	33.65	60.00	26.35	N	OFF	19.7
0.501810	36.74	---	73.00	36.26	N	OFF	19.7
0.570030	---	35.27	60.00	24.73	N	OFF	19.8
0.570030	39.54	---	73.00	33.46	N	OFF	19.8
0.602790	---	37.66	60.00	22.34	N	OFF	19.8
0.602790	43.20	---	73.00	29.80	N	OFF	19.8
14.335440	---	41.76	60.00	18.24	N	OFF	20.2
14.335440	44.36	---	73.00	28.64	N	OFF	20.2
17.692890	---	37.99	60.00	22.01	N	OFF	20.4
17.692890	40.99	---	73.00	32.01	N	OFF	20.4

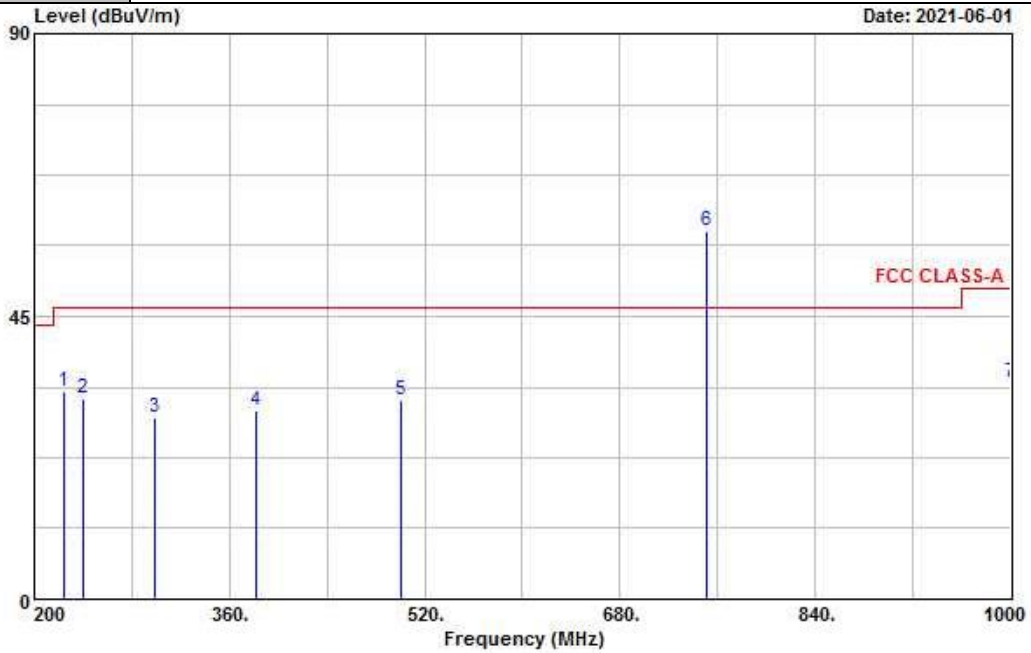


## Appendix B. Radiated Emission Test Result





Test Engineer :	Giant Chen	Temperature :	21~26°C
		Relative Humidity :	51~57%
Test Distance :	10m	Polarization :	Horizontal
Remark :	#6 is system simulator signal which can be ignored.		

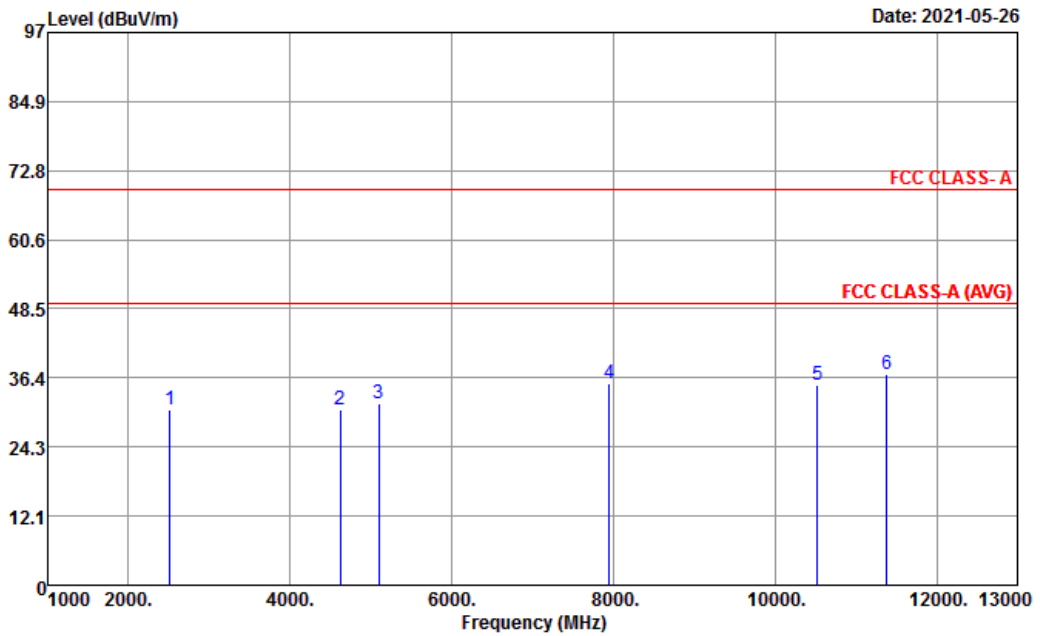


Site : OS04-LK  
 Condition : FCC CLASS-A 10m HORIZONTAL  
 Project : 142240  
 Power : 120VAC/60Hz  
 Mode : Mode 4

	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	225.000	33.12	-13.28	46.40	42.70	14.86	26.74	2.30	QP	297	400
2	240.000	31.86	-14.54	46.40	39.61	16.54	26.68	2.39	Peak	---	---
3	298.400	28.91	-17.49	46.40	34.67	18.45	26.70	2.49	Peak	---	---
4	381.600	29.88	-16.52	46.40	33.83	20.35	27.29	2.99	Peak	---	---
5	500.000	31.74	-14.66	46.40	33.46	22.72	27.93	3.49	Peak	---	---
6	751.000	58.59			56.94	24.93	27.97	4.69	Peak	---	---
7	1000.000	34.55	-14.95	49.50	29.36	26.48	27.05	5.76	Peak	---	---



Test Engineer :	Johnny Hsieh	Temperature :	22.7~23.8°C
		Relative Humidity :	60.1~61.2%
Test Distance :	3m	Polarization :	Horizontal



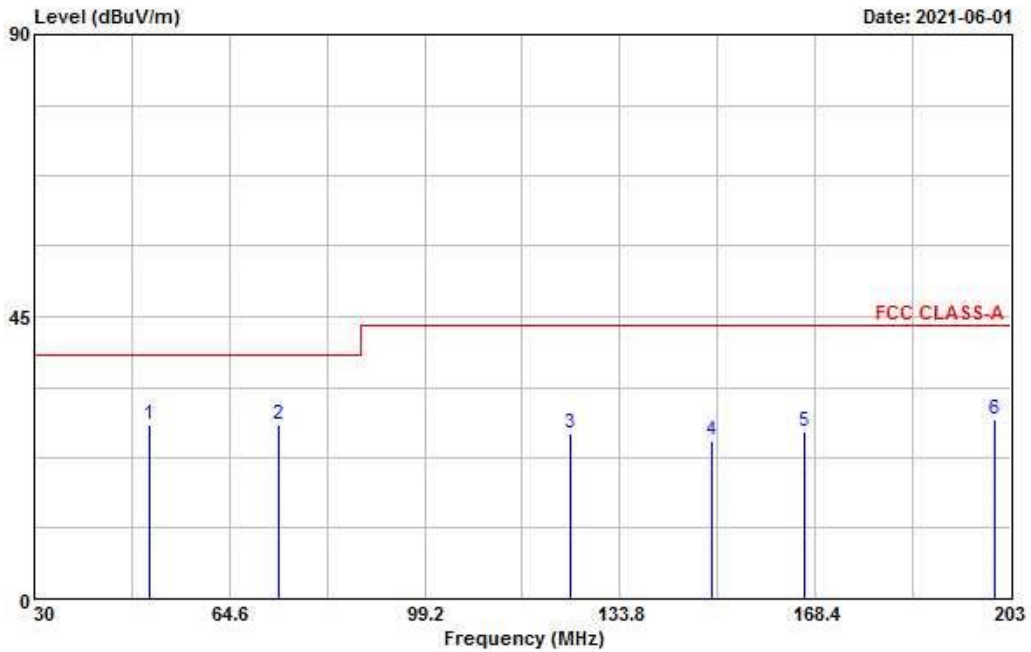
Site : 03CH10-HY  
 Condition : FCC CLASS- A 3m HORN 9120D-HF HORIZONTAL  
 Project : 142240  
 Power : 120Vac/60Hz  
 Mode : 4

Frequency	Level	Distance extrapolation	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak
( MHz )	( dB $\mu$ V/m )	( dB )	( dB )	( dB $\mu$ V/m )	( dB $\mu$ V )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )
2508	30.69	10.45	-38.85	69.54	55.43	27.22	6.09	58.05	-	-	P
4616	30.89	10.45	-38.65	69.54	50.29	30.76	8.26	58.42	-	-	P
5100	31.82	10.45	-37.72	69.54	49.52	31.9	8.87	58.47	-	-	P
7950	35.42	10.45	-34.12	69.54	47.05	36.9	10.8	59.33	-	-	P
10520	35.18	10.45	-34.36	69.54	42.85	39.5	12.5	59.67	-	-	P
11380	37.02	10.45	-32.52	69.54	43.03	39.56	13.07	58.64	100	0	P





Test Engineer :	Giant Chen	Temperature :	21~26°C
		Relative Humidity :	51~57%
Test Distance :	10m	Polarization :	Vertical

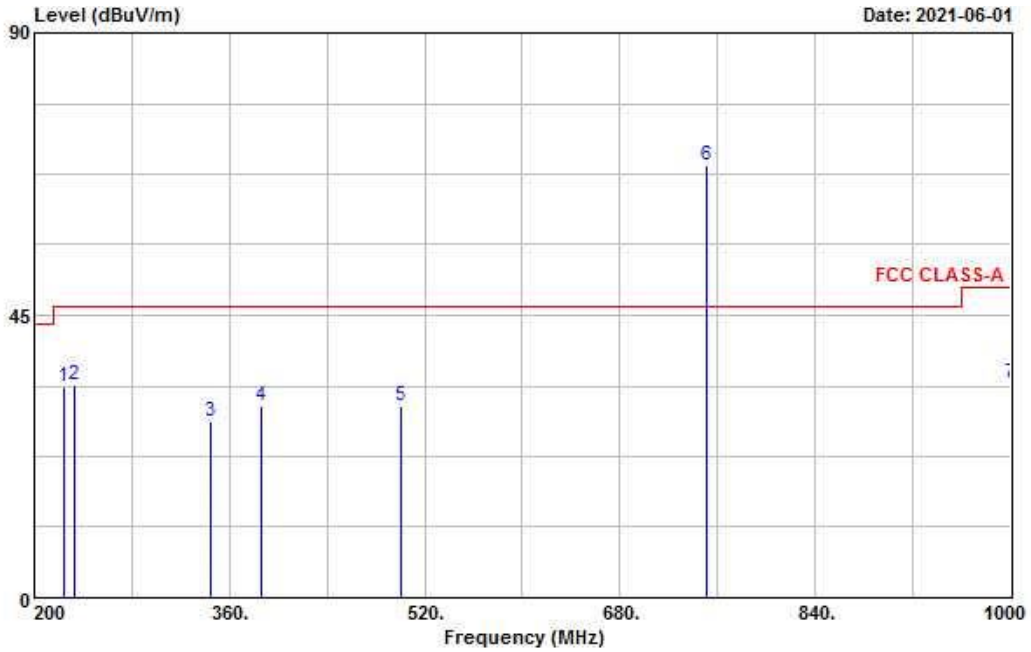


Site : OS04-LK  
 Condition : FCC CLASS-A 10m VERTICAL  
 Project : 142240  
 Power : 120VAC/60Hz  
 Mode : Mode 4

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	50.410	27.90	-11.10	39.00	40.98	13.37	27.52	1.07	Peak	---	---
2	73.250	27.66	-11.34	39.00	42.21	11.58	27.45	1.32	Peak	---	---
3	124.980	26.33	-17.17	43.50	34.74	17.19	27.25	1.65	Peak	---	---
4	150.060	25.27	-18.23	43.50	34.87	15.72	27.13	1.81	Peak	---	---
5	166.500	26.63	-16.87	43.50	36.68	15.08	27.03	1.90	Peak	---	---
6	200.060	28.65	-14.85	43.50	38.81	14.55	26.85	2.14	Peak	---	---



Test Engineer :	Giant Chen	Temperature :	21~26°C
		Relative Humidity :	51~57%
Test Distance :	10m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		

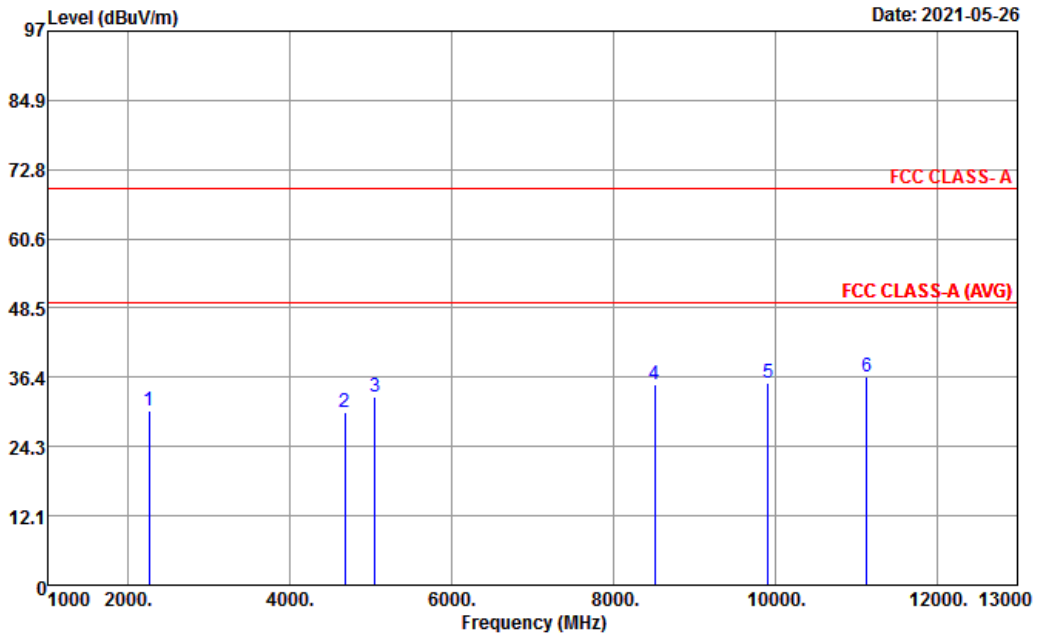


Site : OS04-LK  
 Condition : FCC CLASS-A 10m VERTICAL  
 Project : 142240  
 Power : 120VAC/60Hz  
 Mode : Mode 4

	Freq	Level	Over Limit	Limit Line	ReadAntenna 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	225.000	33.72	-12.68	46.40	43.30	14.86	26.74	2.30	QP	56	100
2	232.800	33.90	-12.50	46.40	42.56	15.70	26.71	2.35	Peak	---	---
3	344.000	28.12	-18.28	46.40	32.96	19.36	27.03	2.83	Peak	---	---
4	386.400	30.65	-15.75	46.40	34.45	20.51	27.32	3.01	Peak	---	---
5	500.000	30.57	-15.83	46.40	32.29	22.72	27.93	3.49	Peak	---	---
6	751.000	68.81			67.16	24.93	27.97	4.69	Peak	---	---
7	1000.000	34.08	-15.42	49.50	28.89	26.48	27.05	5.76	Peak	---	---



Test Engineer :	Johnny Hsieh	Temperature :	22.7~23.8°C
		Relative Humidity :	60.1~61.2%
Test Distance :	3m	Polarization :	Vertical



Site : 03CH10-HY  
 Condition : FCC CLASS- A 3m HORN 9120D-HF VERTICAL  
 Project : 142240  
 Power : 120Vac/60Hz  
 Mode : 4

Frequency	Level	Distance extrapolation	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak
( MHz )	( dBμV/m )	( dB )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )
2250	30.65	10.45	-38.89	69.54	55.31	27.8	5.72	58.18	-	-	P
4678	30.37	10.45	-39.17	69.54	49.46	31.01	8.33	58.43	-	-	P
5052	32.94	10.45	-36.6	69.54	50.91	31.71	8.81	58.49	-	-	P
8516	35.07	10.45	-34.47	69.54	46.3	36.96	11.41	59.6	-	-	P
9916	35.47	10.45	-34.07	69.54	44.78	39.04	12.2	60.55	-	-	P
11134	36.57	10.45	-32.97	69.54	42.8	39.53	12.91	58.67	100	0	P

—————THE END—————