



Report No.: FC971044-04

FCC EMI TEST REPORT

FCC ID : AK8XT0011

Equipment : IoT Network device

Brand Name : Sony

Applicant : Sony Corporation

1-7-1 Konan Minato-ku, Tokyo, 108-0075 Japan

Manufacturer : Sony Corporation

1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan

Standard : FCC 47 CFR FCC Part 15 Subpart B Class B

The product was received on Apr. 15, 2021 and testing was started from May 26, 2021 and completed on May 27, 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 variant 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.

Lunis 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.)

TEL: 886-3-327-3456 Page Number : 1 of 15 FAX: 886-3-328-4978 Issued Date : Jun. 18, 2021

Table of Contents

Report No. : FC971044-04

His	tory o	of this test report	3
Su	mmary	y of Test Result	4
1.	Gene	eral Description	5
	1.1. 1.2. 1.3. 1.4.	Product Feature of Equipment Under Test	5 6
2.	Test	Configuration of Equipment Under Test	7
	2.1.2.2.2.3.2.4.	Connection Diagram of Test SystemSupport Unit used in test configuration and system	8 9
3.	Test	Result	10
		Test of AC Conducted Emission Measurement Test of Radiated Emission Measurement	
4.	List	of Measuring Equipment	14
5.	Unce	ertainty of Evaluation	15
Аp	pendi	x A. AC Conducted Emission Test Result	
Аp	pendi	x B. Radiated Emission Test Result	

TEL: 886-3-327-3456 Page Number : 2 of 15 FAX: 886-3-328-4978 Issued Date : Jun. 18, 2021

History of this test report

Report No. : FC971044-04

Report No.	Version	Description	Issued Date
FC971044-04	01	Initial issue of report	Jun. 18, 2021

TEL: 886-3-327-3456 Page Number : 3 of 15 FAX: 886-3-328-4978 Issued Date : Jun. 18, 2021

Summary of Test Result

Report No.: FC971044-04

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.107	AC Conducted Emission	Pass	Under limit 14.63 dB at 0.569 MHz
3.2	15.109	Radiated Emission	Pass	Under limit 13.89 dB at 947.620 MHz

Note: This is a variant report by adding support band via SW version. All the test cases were performed on original report which can be referred to original grant.

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: Keven Cheng Report Producer: Ruby Zou

TEL: 886-3-327-3456 Page Number : 4 of 15
FAX: 886-3-328-4978 Issued Date : Jun. 18, 2021

1. General Description

1.1. Product Feature of Equipment Under Test

LTE Cat. M1, Bluetooth-LE, NFC, and GNSS.

Product Specification subjective to this standard						
Antenna Type	WWAN: PIFA Antenna Bluetooth: PIFA Antenna GPS/Glonass: PIFA Antenna NFC: Loop Antenna					

Report No.: FC971044-04

Remark: The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

EUT Information List								
HW Version	SW Version	IMEI	Performed Test Item					
A	00.149/0.1.24	351521100105113	Conducted Emission Radiated Emission					

Accessory List					
Dottom	Model Name: AHB482331HPC				
Battery	S/N: N/A				
HOD Califa	Model Name: W1001-ZZ-0107				
USB Cable	S/N: N/A				
One-II-	Model Name: CB403D-0000-202				
Cradle	S/N: N/A				

Note:

- 1. Above EUT list used are electrically identical per declared by manufacturer.
- 2. Above the accessories list are used to exercise the EUT during test, and the serial number of each type of accessories is listed in each section of this report.
- 3. For other wireless features of this EUT, test report will be issued separately.

1.2. Modification of EUT

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

TEL: 886-3-327-3456 Page Number : 5 of 15
FAX: 886-3-328-4978 Issued Date : Jun. 18, 2021

1.3. Test Location

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

Report No.: FC971044-04

Test Site	Sporton International Inc. Wensan Laboratory			
Test Site Location	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			
Test Site No.	Sporton Site No.			
rest site No.	03CH10-HY (TAF Code: 3786)			
Remark	The Radiated Emission test item subcontracted to Sporton International Inc. Wensan Laboratory			

FCC designation No.: TW1093 and TW1132

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 B
- + ANSI C63.4-2014

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

TEL: 886-3-327-3456 Page Number : 6 of 15
FAX: 886-3-328-4978 Issued Date : Jun. 18, 2021

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.

Report No.: FC971044-04

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).

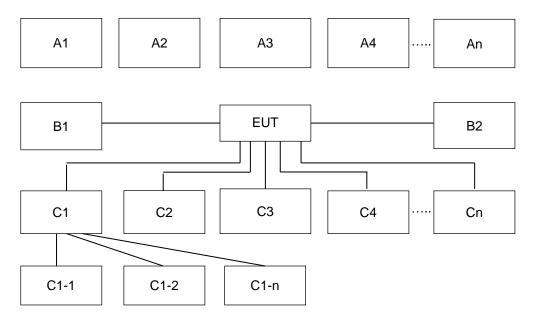
Test Items	Function Type
AC Conducted Emission	Mode 1: LTE Cat. M1 Band 17 Link + Bluetooth-LE Idle + NFC On + Cradle + USB Cable (Charging from Adapter)
Radiated Emissions	Mode 2: LTE Cat. M1 Band 17 Link + Bluetooth-LE Idle + NFC On + Cradle + USB Cable (Charging from Adapter)

Remark:

- For radiation emission after pre-scanned the cellular band between 30MHz ~ 960MHz (LTE Cat. M1 Band 17); only the worst case for cellular band test data of this mode was reported.
- 2. For radiated emission test, pre-scanned tests X, Y, Z, and Accessory in three orthogonal panels to determine the final configuration (Accessory mode) from all possible combinations.

TEL: 886-3-327-3456 Page Number : 7 of 15 FAX: 886-3-328-4978 Issued Date : Jun. 18, 2021

2.2. Connection Diagram of Test System



Report No. : FC971044-04

Conduction Test Setup										
No.	Wireless Station	Connection Type		Test Mode						
NO.	Wileless Station	Connection Type		-	-	-	-	-	-	
A1	Phone	Bluetooth	Х	Х						
A2	System Simulator	LTE Cat. M1	X							
No.	Power Source	Connection Type	1	-	-	-	-	-	-	
C1-1	AC: 120V/60Hz	AC Power Cable	Х							
No.	Setup Peripherals	Connection Type	1	-	-	-	-	-	-	
C1	Cradle	EUT I/O interface without Cable	Х						·	

Radiation Test Setup									
No.	Wireless Station Cor	Connection Type	Test Mode						
NO.		Connection Type		-	-	-	-	-	-
A1	Smart Phone	Bluetooth	Х						
A2	System Simulator	LTE Cat. M1	X						
No.	Power Source	Connection Type	1	-	-	-	-	-	-
C1-1	AC: 120V/60Hz	AC Power Cable	Х						
No.	Setup Peripherals	Connection Type	1		-				
C1	Cradle	EUT I/O interface	Х						
CT	Cradie	without Cable	Α						

TEL: 886-3-327-3456 Page Number : 8 of 15
FAX: 886-3-328-4978 Issued Date : Jun. 18, 2021

2.3. Support Unit used in test configuration and system

					J		
Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord	
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m	
2.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m	
3.	Phone	Sony	Skywalker	N/A	N/A	N/A	
4.	Adapter	Sony	UCH20	N/A	N/A	N/A	

Report No.: FC971044-04

2.4. EUT Operation Test Setup

The EUT was in LTE link mode during the testing. 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 Phone, and the following programs installed in the EUT were programmed during the test:

1. Turn on NFC function

TEL: 886-3-327-3456 Page Number : 9 of 15
FAX: 886-3-328-4978 Issued Date : Jun. 18, 2021

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.

Report No.: FC971044-04

<Class B>

Frequency of emission	Conducted	limit (dBuV)
(MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*}Decreases with the logarithm of the frequency.

3.1.2. Measuring Instruments

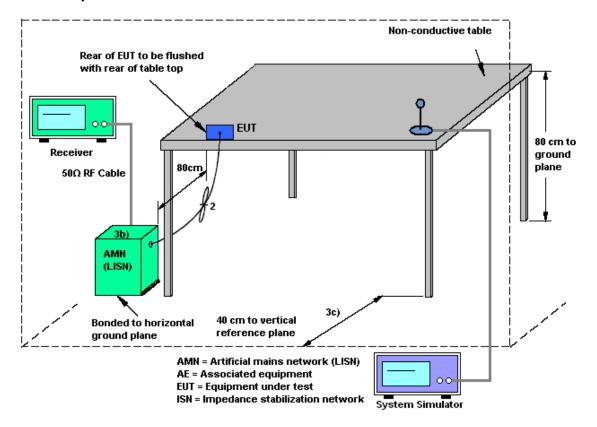
Refer a test equipment and calibration data table in this test report.

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.

TEL: 886-3-327-3456 Page Number : 10 of 15 FAX: 886-3-328-4978 Issued Date : Jun. 18, 2021

3.1.4. Test Setup



Report No.: FC971044-04

3.1.5. Test Result of AC Conducted Emission

Please refer to Appendix A.

TEL: 886-3-327-3456 Page Number : 11 of 15 FAX: 886-3-328-4978 Issued Date : Jun. 18, 2021

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:

Report No.: FC971044-04

<Class B>

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)		
30 – 88	100	3		
88 – 216	150	3		
216 - 960	200	3		
Above 960	500	3		

3.2.2. Measuring Instruments

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

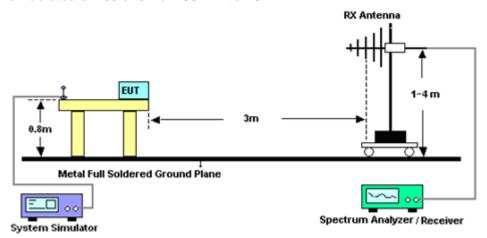
3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters 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 μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level

TEL: 886-3-327-3456 Page Number: 12 of 15
FAX: 886-3-328-4978 Issued Date: Jun. 18, 2021

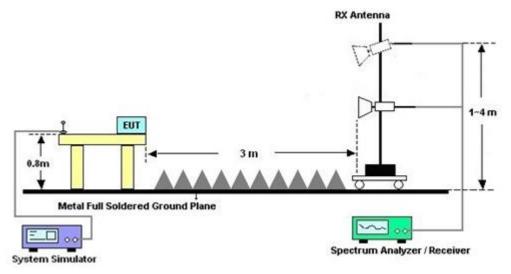
3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



Report No.: FC971044-04

For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

Please refer to Appendix B.

TEL: 886-3-327-3456 Page Number : 13 of 15 FAX: 886-3-328-4978 Issued Date : Jun. 18, 2021

4. List of Measuring Equipment

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 27, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	May 27, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	May 27, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 01, 2020	May 27, 2021	Nov. 30, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	May 27, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	May 27, 2021	Feb. 24, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	May 27, 2021	Dec. 30, 2021	Conduction (CO05-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Oct. 21, 2020	May 26, 2021	Oct. 20, 2021	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35413 & 02	30MHz~1GHz	Feb. 10, 2021	May 26, 2021	Feb. 09, 2022	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Aug. 04, 2020	May 26, 2021	Aug. 03, 2021	Radiation (03CH10-HY)
Amplifier	E-INSTRUME NT TECH LTD.	ERA-10M-700 0-MR	EC1900248	10MHz-7GHz	Nov. 19, 2020	May 26, 2021	Nov. 18, 2021	Radiation (03CH10-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	May 26, 2021	N/A	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	May 26, 2021	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	May 26, 2021	N/A	Radiation (03CH10-HY)
Software	Audix	E3 6.2009-8-24	RK-001042	N/A	N/A	May 26, 2021	N/A	Radiation (03CH10-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290045	20MHz~8.4GHz	Jan. 13, 2021	May 26, 2021	Jan. 12, 2022	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE MY11693/4PE, MY2855/2	1GHz~18GHz	Nov. 06, 2020	May 26, 2021	Nov. 05, 2021	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	30MHz~1GHz	Nov. 06, 2020	May 26, 2021	Nov. 05, 2021	Radiation (03CH10-HY)

Report No. : FC971044-04

TEL: 886-3-327-3456 Page Number : 14 of 15 FAX: 886-3-328-4978 Issued Date : Jun. 18, 2021

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))	2.3
01.93% (0 = 200(y))	

Report No. : FC971044-04

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

Measuring Uncertainty for a Level of Confidence	4.7
of 95% (U = 2Uc(y))	4.7

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

Measuring Uncertainty for a Level of Confidence	5.1
of 95% (U = 2Uc(y))	3.1

TEL: 886-3-327-3456 Page Number : 15 of 15
FAX: 886-3-328-4978 Issued Date : Jun. 18, 2021

Appendix A. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	Temperature :	23~26 ℃
	Calvin wang	Relative Humidity:	40~50%

Report No. : FC971044-04

TEL: 886-3-327-3456 Page Number : A1 of A1

FAX: 886-3-328-4978

EUT Information

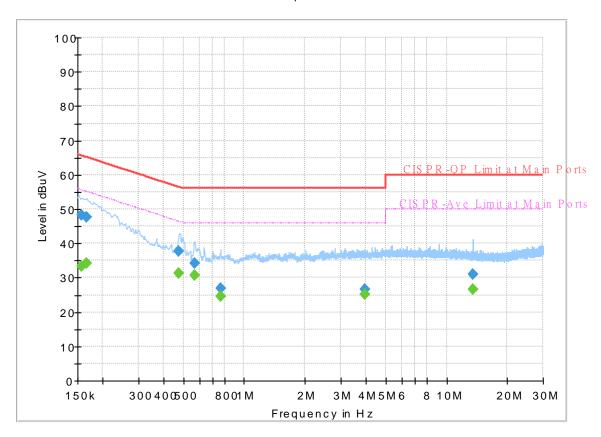
 Report NO :
 971044-04

 Test Mode :
 Mode 1

 Test Voltage :
 120Vac/60Hz

Phase: Line

FullSpectrum



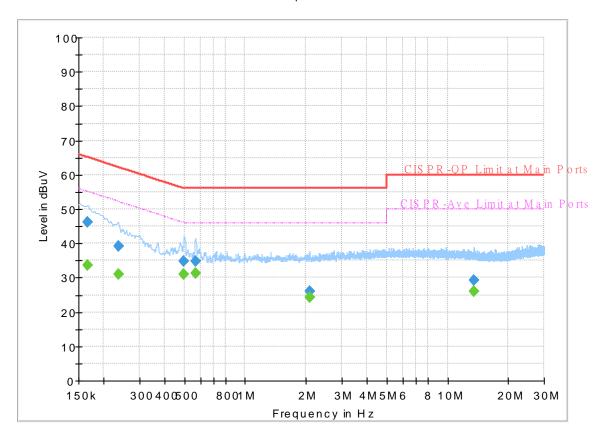
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750		33.39	55.63	22.24	L1	OFF	19.5
0.156750	48.16		65.63	17.47	L1	OFF	19.5
0.165750		34.31	55.17	20.86	L1	OFF	19.5
0.165750	47.78		65.17	17.39	L1	OFF	19.5
0.476250		31.30	46.40	15.10	L1	OFF	19.6
0.476250	37.76		56.40	18.64	L1	OFF	19.6
0.568500		30.74	46.00	15.26	L1	OFF	19.7
0.568500	34.26		56.00	21.74	L1	OFF	19.7
0.764250		24.43	46.00	21.57	L1	OFF	19.9
0.764250	26.97		56.00	29.03	L1	OFF	19.9
3.950250		25.07	46.00	20.93	L1	OFF	19.9
3.950250	26.73		56.00	29.27	L1	OFF	19.9
13.560000		26.46	50.00	23.54	L1	OFF	20.1
13.560000	30.87		60.00	29.13	L1	OFF	20.1

EUT Information

Report NO: 971044-04
Test Mode: Mode 1
Test Voltage: 120Vac/60Hz
Phase: Neutral

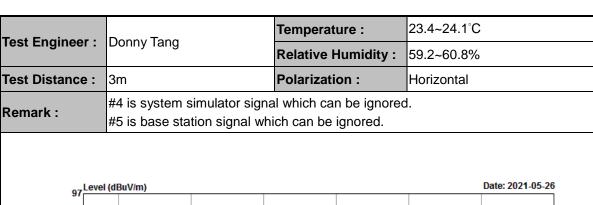
FullSpectrum



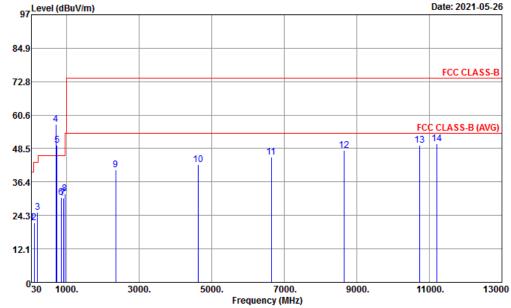
Final_Result

Frequency	QuasiPeak	CAverage	Limit	Margin	Line	Filter	Corr.
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dB)			(dB)
0.165750		33.58	55.17	21.59	N	OFF	19.5
0.165750	46.09	-	65.17	19.08	N	OFF	19.5
0.237750		30.94	52.17	21.23	N	OFF	19.5
0.237750	39.30	-	62.17	22.87	N	OFF	19.5
0.498750		30.99	46.02	15.03	N	OFF	19.7
0.498750	34.78	-	56.02	21.24	N	OFF	19.7
0.568500		31.37	46.00	14.63	N	OFF	19.8
0.568500	34.81		56.00	21.19	N	OFF	19.8
2.076000		24.29	46.00	21.71	N	OFF	20.0
2.076000	25.90	-	56.00	30.10	N	OFF	20.0
13.560000		26.04	50.00	23.96	N	OFF	20.2
13.560000	29.24		60.00	30.76	N	OFF	20.2

Appendix B. Radiated Emission Test Result



Report No.: FC971044-04



Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL

Project : 971044-04 Power : 120Vac/60Hz

Mode :1

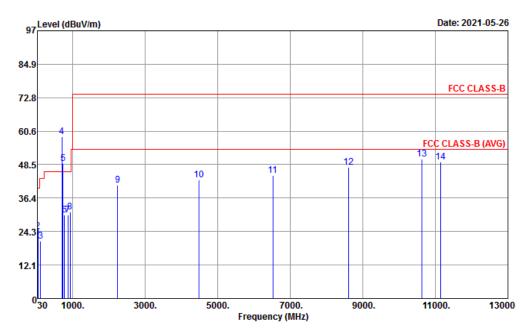
				0ver	LimitA	ntenna	Read	Cable	Preamp	A/Pos	T/Pos	
		Freq	Level	Limit	Line	Factor	Level	Loss	Factor			Remark
		MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1		30.00	21.56	-18.44	40.00	24.38	29.20	0.63	32.65			Peak
2		109.54	21.55	-21.95	43.50	16.73	36.22	1.18	32.58			Peak
3		202.66	25.43	-18.07	43.50	14.99	41.34	1.60	32.50			Peak
4	*	710.00	57.35			26.95	59.90	2.98	32.48			Peak
5	*	740.00	49.60			28.39	50.58	3.06	32.43			Peak
6		845.77	30.68	-15.32	46.00	29.21	30.29	3.26	32.08			Peak
7		910.76	30.56	-15.44	46.00	28.98	29.83	3.39	31.64			Peak
8		947.62	32.11	-13.89	46.00	30.54	29.35	3.47	31.25	100	0	Peak
9		2350.00	40.79	-33.21	74.00	27.60	65.70	5.62	58.13			Peak
10		4634.00	42.82	-31.18	74.00	30.84	62.10	8.30	58.42			Peak
11		6640.00	45.26	-28.74	74.00	34.22	60.05	10.53	59.54			Peak
12		8650.00	47.76	-26.24	74.00	37.30	58.39	11.86	59.79			Peak
13		10742.00	49.80	-24.20	74.00	39.63	56.08	13.31	59.22			Peak
14		11196.00	50.34	-23.66	74.00	39.41	55.93	13.66	58.66	100	0	Peak

TEL: 886-3-327-3456 Page Number : B1 of B2

FAX: 886-3-328-4978

Test Engineer :	Donny Tong	Temperature :	23.4~24.1°C			
	Donny rang	Relative Humidity :	59.2~60.8%			
Test Distance :	3m	Polarization :	Vertical			
IRemark ·	#4 is system simulator signal which can be ignored. #5 is base station signal which can be ignored.					

Report No. : FC971044-04



Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL

Project : 971044-04 Power : 120Vac/60Hz

Mode : 1

				0ver	Limit/	Antenna	Read	Cable	Preamp	A/Pos	T/Pos	
		Freq	Level	Limit	Line	Factor	Level	Loss	Factor			Remark
		MHz	dBuV/m	dB	dBuV/m	dB/m	dBuV	dB	dB	cm	deg	
1		30.00	21.76	-18.24	40.00	24.38	29.40	0.63	32.65			Peak
2		40.67	24.30	-15.70	40.00	19.19	37.02	0.73	32.64			Peak
3		113.42	20.74	-22.76	43.50	17.07	35.06	1.19	32.58			Peak
4	*	710.00	58.67			26.95	61.22	2.98	32.48			Peak
5	*	740.00	48.82			28.39	49.80	3.06	32.43			Peak
6		779.81	30.18	-15.82	46.00	28.59	30.81	3.16	32.38			Peak
7		872.93	30.36	-15.64	46.00	29.09	29.86	3.32	31.91			Peak
8		929.19	31.40	-14.60	46.00	29.59	29.83	3.43	31.45	100	0	Peak
9		2246.00	40.95	-33.05	74.00	27.81	65.80	5.52	58.18			Peak
10		4494.00	42.93	-31.07	74.00	30.38	62.73	8.21	58.39			Peak
11		6522.00	44.61	-29.39	74.00	34.14	59.62	10.35	59.50			Peak
12		8606.00	47.49	-26.51	74.00	37.21	58.15	11.86	59.73			Peak
13		10624.00	50.61	-23.39	74.00	39.50	57.36	13.21	59.46	100	0	Peak
14		11148.00	49.50	-24.50	74.00	39.50	55.04	13.63	58.67			Peak

-THE END-

TEL: 886-3-327-3456 Page Number : B2 of B2

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