

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE200403805

FCC REPORT

Applicant: SKY PHONE LLC

Address of Applicant: 1348 Washington Av. Suite 350, Miami Beach, FL33139

Equipment Under Test (EUT)

Product Name: SMART PHONE

Model No.: Elite C5

Trade mark: SKY DEVICES

FCC ID: 2ABOSSKYELITEC5

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 15 Apr., 2020

Date of Test: 16 Apr., to 07 May, 2020

Date of report issued: 08 May, 2020

Test Result: PASS *

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



Report No: CCISE200403805

2 Version

Version No.	Date	Description
00	08 May, 2020	Original

Tested by:	Carey Chen	Date:	08 May, 2020
	Test Engineer		
Reviewed by:	Winner thang	Date:	08 May, 2020
	Project Engineer		



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4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part 15.107	Pass
Radiated Emission	Part 15.109	Pass

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: The EUT not applicable of the test item.

Test Method: ANSI C63.4:2014



5 General Information

5.1 Client Information

Applicant:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL33139
Manufacturer:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL33139

5.2 General Description of E.U.T.

Product Name:	SMART PHONE
Model No.:	Elite C5
Power supply:	Rechargeable Li-ion Battery DC3.8V-2000mAh
AC adapter:	Model: NB-0501000UM-1
	Input: AC100-240V, 50/60Hz, 0.2A
	Output: DC 5.0V, 1000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test Mode

Operating mode	Detail description	
PC mode	Keep the EUT in Downloading mode(Worst case)	
Charging+Recording mode	Keep the EUT in Charging+Recording mode	
Charging+Playing mode	Keep the EUT in Charging+Playing mode	
FM mode	Keep the EUT in FM receiver mode	
GPS mode	Keep the EUT in GPS receiver mode	

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.38 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)

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5.5 Description of Support Units

Manufacturer	Description	Model Serial Number		FCC ID/DoC
DELL	PC	OPTIPLEX7070	OPTIPLEX7070 2J8XSZ2	
DELL	MONITOR	SE2018HR	3M7QPY2	DoC
DELL	KEYBOARD	KB216d	N/A	DoC
DELL	MOUSE	MS116t1	N/A	DoC
HP	Printer	HP LaserJet P1007	VNFP409729	DoC

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Description of Cable Used

Cable Type Description		Length	From	То
Detached USB Cable	Shielding	1.0m	EUT	PC/Adapter
Detached headset cable	Unshielded	1.2m	EUT	Headset

5.8 Additions to, deviations, or exclusions from the method

No

5.9 Laboratory Facility

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

FCC - Designation No.: CN1211

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

• ISED - CAB identifier.: CN0021

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

5.10 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.110~116, Building B, Jinyuan Business Building, 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

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No.110~116, Building B, Jinyuan Business Building, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

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5.11 Test Instruments list

Radiated Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020	
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-07-2020	03-06-2021	
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021	
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021	
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020	
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020	
EMI Test Software	AUDIX	E3	Version: 6.110919b		b	
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021	
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021	
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2019	11-17-2020	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021	
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021	
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021	

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-05-2020	03-04-2021
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2020
Cable	HP	10503A	N/A	03-05-2020	03-04-2021
EMI Test Software	AUDIX	E3	\	Version: 6.110919	b



6 Test results and Measurement Data

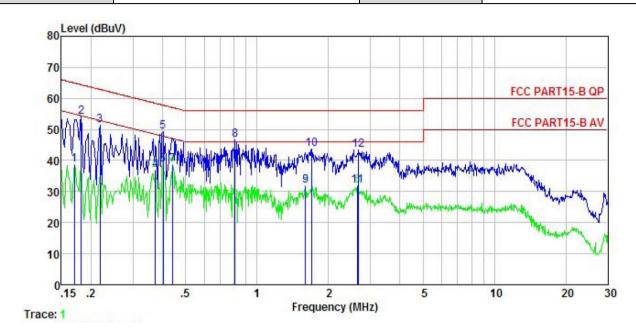
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107								
Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz							
Class / Severity:	Class B	Class B							
Receiver setup:	RBW=9kHz, VBW=30kHz								
Limit:	Frequency range (MHz)								
	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:	Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC power							
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). 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(latest version) on conducted measurement. 								
Test Instruments:	Refer to section 5.11 for details	1							
Test mode:	Refer to section 5.3 for details								
Test results:	Pass								



Measurement data:

Product name:	SMART PHONE	Product model:	Elite C5
Test by:	Carey	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Huni: 55%



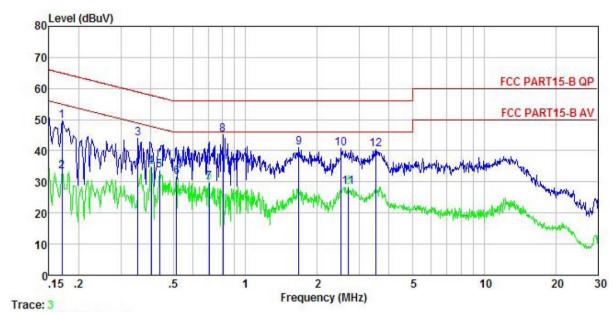
	Freq	Read Level	LISN Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBu₹	₫B	dB	dB	dBu₹	dBu₹	<u>d</u> B	
1 2	0.170 0.182	28.49 43.84	-0.43 -0.42	-0.10 -0.12	10.77	38.73 54.07		-16.21 -10.35	Average OP
1 2 3 4 5 6 7 8 9	0.219 0.373	41.32	-0.40 -0.37	-0.18 0.25	10.76 10.73	51.50	62.88	-11.38	
5	0.402	38.51	-0.37	0.42	10.72	49.28	57.81	-8.53	QP
ь 7	0.402 0.442	27.95 28.29	-0.37 -0.38	0.42 0.08	10.72 10.74	38.72 38.73	47.81 47.02	-8.29	Average Average
8 9	0.809 1.602	36.23 21.49	-0.38 -0.40	-0.05 -0.07	10.81 10.93	46.61 31.95	56.00 46.00	-9.39 -14.05	QP Average
10 11	1.698 2.650	33.30	-0.40 -0.43	-0.14 -0.24	10.94 10.93	43.70 31.89		-12.30 -14.11	QP Average
12	2.678	33.04	-0.43	-0.24	10.93	43.30		-12.70	

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.



Product name:	SMART PHONE	Product model:	Elite C5
Test by:	Carey	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



	Freq	Kead Level	Factor	Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBu∇	<u>ab</u>	<u>d</u> B	₫B	dBu∜	—dBu∇	<u>db</u>	
1	0.170	39.63	-0.68	0.01	10.77	49.73	64.94	-15.21	QP
2	0.170	23.30	-0.68	0.01	10.77	33.40	54.94	-21.54	Average
3	0.354	33.95	-0.64	-0.03	10.73	44.01	58.87	-14.86	QP
1 2 3 4 5 6 7 8 9	0.402	24.67	-0.64	-0.06	10.72	34.69	47.81	-13.12	Average
5	0.435	23.57	-0.64	-0.03	10.73	33.63	47.15	-13.52	Average
6	0.513	21.46	-0.65	0.03	10.76	31.60	46.00	-14.40	Average
7	0.705	19.61	-0.64	0.04	10.77	29.78	46.00	-16.22	Average
8	0.804	35.07	-0.64	0.06	10.81	45.30	56.00	-10.70	QP
	1.671	30.69	-0.66	0.15	10.94	41.12	56.00	-14.88	QP
10	2.513	30.29	-0.67	0.25	10.94	40.81	56.00	-15.19	QP
11	2.707	17.90	-0.67	0.27	10.93	28.43	46.00	-17.57	Average
12	3.509	29.93	-0.69	0.42	10.90	40.56	56.00	-15.44	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.



6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Section 15.109									
Test Frequency Range:	30MHz to 6000M	30MHz to 6000MHz								
Test site:	Measurement Dis	stance: 3m (Sem	i-Anechoic (Chamber))				
Receiver setup:	Frequency	Detecto	r	RBW	VBW	Rem	nark			
receiver cetap.	30MHz-1GHz									
	Above 1CHz	Above 1GHz Peak 1MHz 3MHz Peak Value								
	Above IGHZ	RMS 1MHz 3MHz Average Value								
Limit:		Frequency Limit (dBuV/m @3m) Remark								
		30MHz-88MHz 40.0 Quasi-peak Value								
		88MHz-216MHz 43.5 Quasi-peak Value								
		216MHz-960MHz 46.0 Quasi-peak Value								
	960MHZ-10	960MHz-1GHz 54.0 Quasi-peak Val								
	Above 1G	Hz -		54.0		Average \				
Test setup:				74.0		Peak Va	alue			
	Tum 0.8m Table 0.8m Above 1GHz	4m		RFT						
	AE			Horn Anlenna Antenna Tower Reference Plane Pre- Amptiter Controller						
Test Procedure:	1. The EUT was part ground at a 3 range degrees to determine 2. The EUT was so which was mound at the ground to determine the degree of the de	neter semi-a ermine the p set 3 meters unted on the eight is varia rmine the m	anec positi s awa e top ed fro axim	hoic camber on of the hig ay from the i of a variable om one mete oum value of	The tab ghest radi nterferen e-height a er to four the field	le was rotated iation. ce-receiving a antenna tower, meters above strength. Both	d 360 antenna, e the			





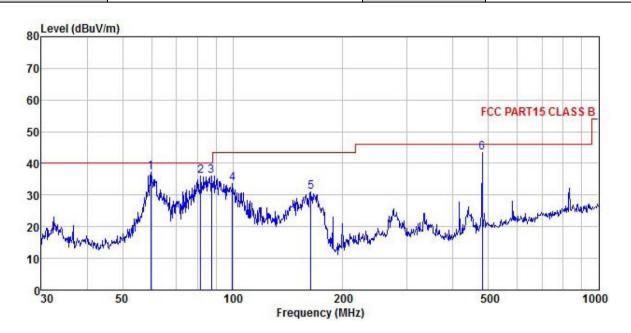
	 For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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.
Test Instruments:	Refer to section 5.11 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All of the observed value above 6GHz ware the niose floor , which were no recorded



Measurement Data:

Below 1GHz:

Product Name:	SMART PHONE	Product Model:	Elite C5
Test By:	Carey	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



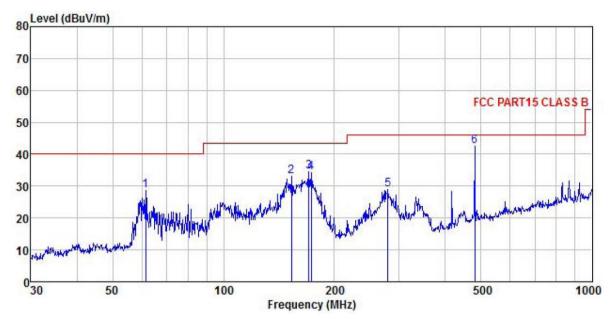
	Freq		Intenna Factor			Preamp Factor		Limit Line	Over Limit	Remark
-	MHz	dBu∜	<u>dB</u> /m		<u>dB</u>	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1	59.649	54.26	11.41	1.38	0.00	29.77	37.28	40.00	-2.72	QP
2	81.783	55.82	7.99	1.72	0.00	29.63	35.90	40.00	-4.10	QP
2	87.418	54.40	9.35	1.96	0.00	29.58	36.13	40.00	-3.87	QP
4	99.878	48.90	12.41	1.94	0.00	29.53	33.72	43.50	-9.78	QP
5	163.755	48.11	9.42	2.62	0.00	29.10	31.05	43.50	-12.45	QP
6	480.528	51.31	17.52	3.46		28.92	43.37		-2.63	

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 By: Carey Test mode: PC mode	
Test Frequency: 30 MHz ~ 1 GHz Polarization: Horizontal	
Test Voltage: AC 120/60Hz Environment: Temp: 24℃ Huni:	: 57%



	Freq		Intenna Factor			Preamp Factor		Limit Line	Over Limit	Remark
-	MHz	dBu∇	<u>dB</u> /m	<u>dB</u>	<u>dB</u>	<u>dB</u>	$\overline{dBuV/m}$	dBu√/m	<u>dB</u>	
1	61.562	46.16	10.83	1.38	0.00	29.77	28.60	40.00	-11.40	QP
2	152.664	50.60	9.00	2.53	0.00	29.20	32.93		-10.57	
3	170.195	51.42	9.64	2.66	0.00	29.05	34.67	43.50	-8.83	QP
4	173.205	50.82	9.74	2.68	0.00	29.02	34.22	43.50	-9.28	QP
5	279.044	41.32	13.24	2.88	0.00	28.49	28.95	46.00	-17.05	QP
6	480.528	50.54	17.52	3.46	0.00	28.92	42.60	46.00	-3.40	QP

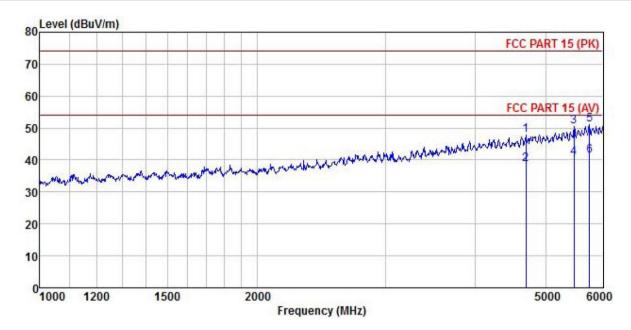
Remark:

- 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.



Above 1GHz:

Product Name:	SMART PHONE	Product Model:	Elite C5
Test By:	Carey	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



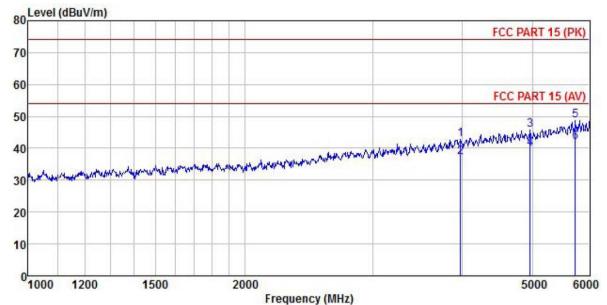
		ReadAntenna		Cable	Aux	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dBu√	dB/m		<u>ab</u>	<u>ab</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1	4694.016	49.76	30.81	6.85	2.41	41.99	47.84	74.00	-26.16	Peak
2	4694.016	40.62	30.81	6.85	2.41	41.99	38.70	54.00	-15.30	Average
3	5476.026	49.95	32.53	7.19	2.65	41.84	50.48		-23.52	
4	5476.026	40.17	32.53	7.19	2.65	41.84	40.70	54.00	-13.30	Average
5	5747.456	49.80	32.65	7.74	2.73	41.96	50.96	74.00		
6	5747.456	40.14	32.65	7.74	2.73	41.96	41.30	54.00	-12.70	Average

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.



Product Name:	SMART PHONE	Product Model:	Elite C5
Test By:	Carey	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor			Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBu∀	<u>dB</u> /m		<u>d</u> B	<u>dB</u>	$\overline{dBuV/m}$	dBu√/m	<u>dB</u>	
1 2 3	3973.530 3973.530 4962.120	46.07 40.37 46.98	30.22 30.22 31.33	6.11 6.11 6.91	2.20 2.20 2.49	41.81 41.87	45.84	54.00 74.00	-28.16	Average Peak
4 5 6	4962.120 5737.167 5737.167	40.98 47.55 40.80	31.33 32.65 32.65	6.91 7.69 7.69	2.49 2.72 2.72	41.94	39.84 48.67 41.92	74.00	-25.33	Average Peak Average

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.