

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE200600705

FCC REPORT

Applicant: SWAGTEK

Address of Applicant: 10205 NW 19th St. Suite 101, Miami, FL, 33172

Equipment Under Test (EUT)

Product Name: 5.0 inch 4G Smart Phone

Model No.: L50, UN50, BRAVE

Trade mark: LOGIC, iSWAG, UNONU

FCC ID: 055502220

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 01 Jun., 2020

Date of Test: 02 Jun., to 16 Jun., 2020

Date of report issued: 17 Jun., 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.





Version

Version No.	Date	Description
00	17 Jun., 2020	Original

Tested by: 17 Jun., 2020 Date:

Winner Thang

Project Engineer Reviewed by: Date: 17 Jun., 2020



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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:	SWAGTEK	
Address:	10205 NW 19th St. Suite 101, Miami, FL, 33172	
Manufacturer/ Factory:	SWAGTEK	
Address:	10205 NW 19th St. Suite 101, Miami, FL, 33172	

5.2 General Description of E.U.T.

D 1 (N)	F 0 : 1 4 0 0 F1
Product Name:	5.0 inch 4G Smart Phone
Model No.:	L50, UN50, BRAVE
Power supply:	Rechargeable Li-ion Battery DC3.8V-1900mAh
AC adapter:	Input:100-240V AC,50/60Hz 0.2A
	Output:5.0V DC 550mA
Remark:	L50, UN50, BRAVE, were identical inside, the electrical circuit design, layout, components used and internal wiring.
	L50 model corresponds to the trademark LOGIC.
	BRAVE model correspond to the trademark iSWAG.
	UN50 model corresponds to the trademark UNONU.
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)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)



5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX7070	2J8XSZ2	DoC
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	1.02m	EUT	PC/Adapter
Detached headset cable	Unshielded	1.22m	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.

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



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	\	/ersion: 6.110919	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: 6.110919b			



6 Test results and Measurement Data

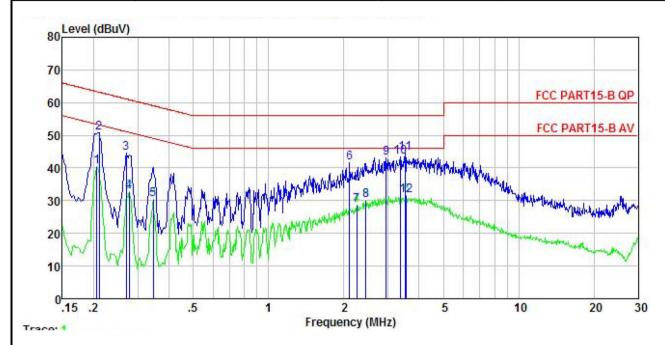
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107				
Test Frequency Range:	150kHz to 30MHz				
Class / Severity:	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 procedure	Reference Plane LISN 40cm 80cm Filter AC power Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m				
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				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				



Measurement data:

Product name:	5.0 inch 4G Smart Phone	Product model:	L50
Test by:	Mike	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



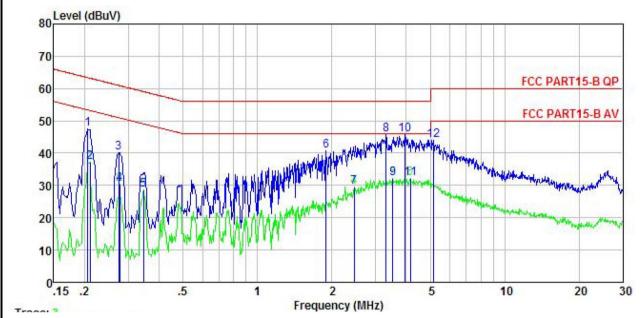
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
<u>-</u>	MHz	dBu∇	<u>dB</u>		dBu₹	dBu₹	<u>ab</u>	
1	0.206	30.51	-0.59	10.76	40.51	53.36	-12.85	Average
2	0.211	40.75	-0.58	10.76	50.76	63.18	-12.42	QP
3	0.270	34.71	-0.56	10.75	44.67	61.12	-16.45	QP
4	0.277	22.85	-0.56	10.74	32.79	50.90	-18.11	Average
5	0.346	20.01	-0.51	10.73	30.31	49.05	-18.74	Average
6	2.110	31.62	-0.50	10.95	41.77	56.00	-14.23	QP
7	2.249	18.38	-0.49	10.95	28.55	46.00	-17.45	Average
8	2.448	19.99	-0.47	10.94	30.20	46.00	-15.80	Average
1 2 3 4 5 6 7 8 9	2.946	32.85	-0.43	10.92	43.13	56.00	-12.87	QP
10	3.364	33.05	-0.42	10.91	43.39	56.00	-12.61	QP
11	3.528	34.31	-0.42	10.90	44.67	56.00	-11.33	QP
12	3.565	21.17	-0.42	10.90	31.54	46.00	-14.46	Average

Notes

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



Product name:	5.0 inch 4G Smart Phone	Product model:	L50
Test by:	Mike	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	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
<u>2</u>	MHz	dBu₹	<u>dB</u>	₫B	dBu∀	dBu∀	<u>ab</u>	
1	0.206	37.29	-0.67	10.76	47.38	63.36	-15.98	QP
1 2 3 4 5 6 7 8 9	0.211	27.14	-0.67	10.76	37.23	53.18	-15.95	Average
3	0.274	30.17	-0.67	10.74	40.25	60.98	-20.73	QP
4	0.277	20.26	-0.67	10.74	30.34	50.90	-20.56	Average
5	0.346	18.56	-0.65	10.73	28.61	49.05	-20.44	Average
6	1.898	30.27	-0.71	10.95	40.67	56.00	-15.33	QP
7	2.461	19.12	-0.68	10.94	29.62	46.00	-16.38	Average
8	3.310	35.02	-0.65	10.91	45.66	56.00	-10.34	QP
9	3.528	21.64	-0.65	10.90	32.31	46.00	-13.69	Average
10	3.964	34.95	-0.64	10.89	45.70		-10.30	
11	4.158	21.48	-0.64	10.88	32.26			Average
12	5.139	33.15	-0.65	10.85	44.03		-15.97	

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 Se	ection 15.10)9					
Test Frequency Range:	30MHz to 6000MI	Hz						
Test site:	Measurement Dis	tance: 3m ((Sem	i-Anechoic (Chamber)			
Receiver setup:	Frequency	Detecto	or	RBW	VBW	Remark		
, , , , , , , , , , , , , , , , , , ,	30MHz-1GHz			120kHz	300kHz	Quasi-peak Value		
	Above 1GHz	Peak		1MHz	3MHz	Peak Value		
	Above 1GHz	RMS		1MHz	3MHz	Average Value		
Limit:	Frequenc		Lim	it (dBuV/m	@3m)	Remark		
	30MHz-88N			40.0		Quasi-peak Value		
	88MHz-216			43.5		Quasi-peak Value		
	216MHz-960			46.0		Quasi-peak Value		
	960MHz-1G	ÞΗΖ		54.0 54.0		Quasi-peak Value		
	Above 1GI	Hz		74.0		Average Value Peak Value		
Test setup:	Below 1GHz > 3m	4m			Antenna Tower Search Antenna			
	Above 1GHz							
	AE (Tumb							
Test Procedure:	ground at a 3 ndegrees to detect 2. The EUT was swhich was mound 3. The antenna hours ground to detect to detect the street and the ground to detect the detect the street and the street the street the street and the street the stre	neter semi- ermine the p set 3 meters unted on the eight is vari rmine the m	anecl positi s awa e top ed fro naxim	hoic camber on of the hig by from the in of a variable om one mete um value of	The table the table of ta	ce-receiving antenna, ntenna tower. meters above the		





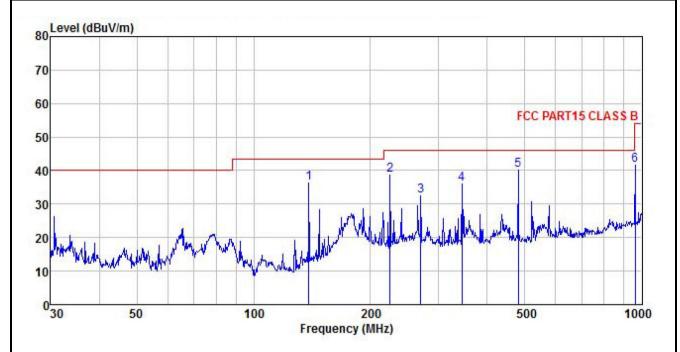
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. 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:	5.0 inch 4G Smart Phone	Product Model:	L50
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



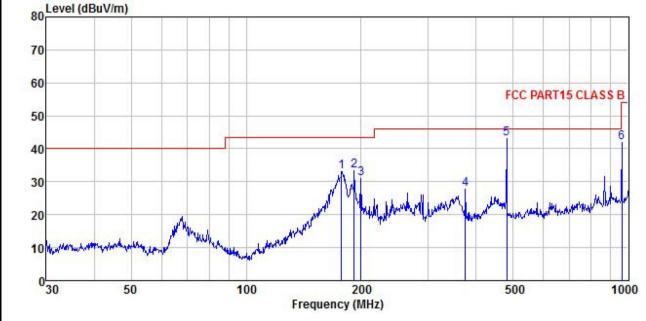
	Freq				ReadAntenna Cable Freq Level Factor Loss F				Level	Limit Line		Remark
1	MHz	dBu∇	<u>dB</u> /m	<u>ap</u>	<u>ab</u>	<u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>			
1	138.874	51.39	13.74	0.60	0.00	29.28	36.45	43.50	-7.05	QP		
2	224.519	48.25	18.40	0.74	0.00	28.68	38.71	46.00	-7.29	QP		
3	269.428	41.53	18.58	0.82	0.00	28.50	32.43	46.00	-13.57	QP		
2 3 4 5	344.386	44.84	18.79	0.92	0.00	28.55	36.00	46.00	-10.00	QP		
5	480.528	48.54	19.33	1.08	0.00	28.92	40.03	46.00	-5.97	QP		
6	962.162	44.91	22.88	1.57	0.00	27.65	41.71	54.00	-12.29	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.



Product Name:	5.0 inch 4G Smart Phone	Proc	duct Model:	L50	L50			
Test By:	Mike	Test	mode:	PC mode				
Test Frequency:	30 MHz ~ 1 GHz	Polarization: Horizontal						
Test Voltage:	AC 120/60Hz	Envi	ironment:	Huni: 57%				
80 Level (dBuV/m								



	Freq		Antenna Factor			Preamp Factor		Limit Line		Remark
2	MHz	dBu∜	<u>dB</u> /π		<u>ab</u>	<u>ab</u>	$\overline{dBuV/m}$	dBuV/m	<u>q</u> B	
1	177.509	44.45	16.85	0.67	0.00	28.99	32.98	43.50	-10.52	QP
2	191.745	43.92	17.55	0.70	0.00	28.89	33.28	43.50	-10.22	QP
2	199.986	40.92	18.30	0.72	0.00	28.83	31.11	43.50	-12.39	QP
4	374.623	36.50	18.95	0.96	0.00	28.67	27.74	46.00	-18.26	QP
5	480.528	51.65	19.33	1.08	0.00	28.92	43.14	46.00	-2.86	QP
6	962.162	45.14	22.88	1.57	0.00	27.65	41.94	54.00	-12.06	QP

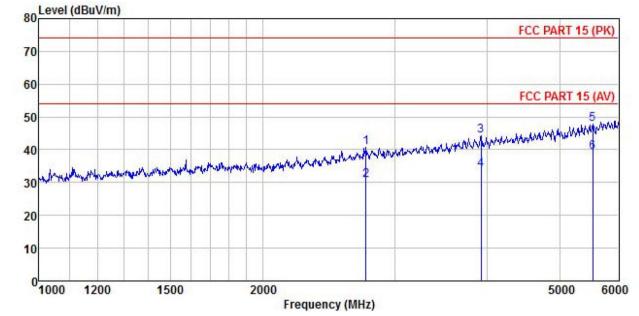
Remark:

- 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:	5.0 inch 4G Smart Phone	Product Model:	L50		
Test By:	Mike	Test mode:	PC mode		
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		
80 Level (dBuV/r	n)		FCC PART 15 (PK)		



	Freq		Antenna Factor			Preamp Factor		Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u> /π		<u>ab</u>	<u>ab</u>	$\overline{dBuV/m}$	dBuV/m	<u>ab</u>	
1	2747.118	48.27	27.88	4.61	1.80	41.71	40.85	74.00	-33.15	Peak
2	2747.118	38.10	27.88	4.61	1.80	41.71	30.68	54.00	-23.32	Average
3	3924.004	48.96	29.21	5.70	2.20	41.80	44.27	74.00	-29.73	Peak
4	3924.004	38.74	29.21	5.70	2.20	41.80	34.05	54.00	-19.95	Average
5	5535.214	47.73	32.31	7.02	2.66	41.81	47.91	74.00	-26.09	Peak
6	5535.214	39.02	32.31	7.02	2.66	41.81	39.20	54.00	-14.80	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.



oduct Name:		5.0 i	5.0 inch 4G Smart Phone Mike 1 GHz ~ 6 GHz AC 120/60Hz					Product Model:		l: L	L50			
est By: est Frequency: est Voltage:								Mike	Test mode:			PC mode		
								1 Gł	Polarization: Environment:		Н	Horizontal		
								AC ²			7	Temp: 24°	C	Huni: 579
	Laval	L/dDV	lana k											
80	Leve	l (dBuV	/m)									FCC	PART	15 (PK)
70												100	TAIL	15 (114)
60												FCC	PART	15 (AV)
50														
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10	1000			1500	hand had	2000		ncy (MH:					5000	6000
10			00	1500		2000	Freque	PR OFFICE OF	z)					
10		120	00	1500	Cable	2000	Freque	ncy (MH:	z) Limit	Over Limit				
10		120	00 Read/	1500	Cable	2000 Aux Factor	Freque Preamp Factor	ncy (MH: Level	z) Limit	Over				
20 10 0	1000	120 Freq MHz	Read/ Level dBuV 46.09	1500 Antenna Factor dB/m 28.26	Cable Loss dB 5.28	2000 Aux Factor dB	Freque Preamp Factor dB 41.56	Level dBuV/m 39.94	Limit Line dBuV/m	Over Limit dB	Remarl	k		
20 10 0	293 293 416	Freq MHz 30.156 30.156	Read/ Level ——dBuV 46.09 37.41 47.83	1500 Antenna Factor ————————————————————————————————————	Cable Loss ——————————————————————————————————	2000 Aux Factor ————————————————————————————————————	Freque Preamp Factor ————————————————————————————————————	Level dBuV/m 39.94 31.26 44.18	Limit Line dBuV/m 70.00 50.00 74.00	Over Limit 	Remark Peak Aweras	k 		
20 10 0	293 293 293 416 416	Freq MHz 30.156 30.156 33.019	Read! Level dBuV 46.09 37.41	1500 Antenna Factor dB/m 28.26 28.26	Cable Loss dB 5.28 5.28	2000 Aux Factor dB 1.87 1.87 2.26 2.26	Freque Preamp Factor ————————————————————————————————————	Level dBuV/m 39.94 31.26 44.18 34.20	Limit Line dBuV/m 70.00 50.00 74.00	Over Limit 	Remark Peak Averak Peak Averas	k 		

- 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.