

## Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE200601703

# **FCC REPORT**

Applicant: SWAGTEK

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

**Equipment Under Test (EUT)** 

Product Name: 1.8 inch 2G Senior Phone

Model No.: SR4, Guardian, UR4

Trade mark: LOGIC, iSWAG, UNONU

**FCC ID:** O55182020

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 05 Jun., 2020

**Date of Test:** 05 Jun., to 10 Jul., 2020

Date of report issued: 21 Jul., 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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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.





2 Version

Version No.	Date	Description
00	21 Jul., 2020	Original

Tested by: Date: 21 Jul., 2020

Reviewed by: Date: 21 Jul., 2020

Project Engineer



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## **Test Summary**

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

- Pass: The EUT complies with the essential requirements in the standard.
- 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.

Product Name:	1.8 inch 2G Senior Phone			
Model No.:	SR4, Guardian, UR4			
Power supply:	Rechargeable Li-ion Battery DC3.7V-600mAh			
AC adapter:	Model:TXD-C02-08			
	Input: AC100-240V, 50Hz, 0.15A			
	Output: DC 5.0V, 500mA			
Desktop Charger:	Model:T36			
	Input: DC 5.0V, 500mA			
	Output: DC 5.0V, 500mA			
Remark:	Model No.: SR4, Guardian, UR4 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name and trademark.			
	SR4 model corresponds to the trademark LOGIC.			
	Guardian model correspond to the trademark iSWAG.			
	UR4 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

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)

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

Report No: CCISE200601703

### 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 headset cable	Unshielded	1.0m	EUT	Headset

### 5.8 Description of Cable Used

N/A

### 5.9 Additions to, deviations, or exclusions from the method

No

### 5.10 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

### 5.11 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

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### **5.12 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	DDI IA OA OOD	1005	06-22-2017	06-21-2020
Hom Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2020	06-21-2021
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: 6.110919	b



### 6 Test results and Measurement Data

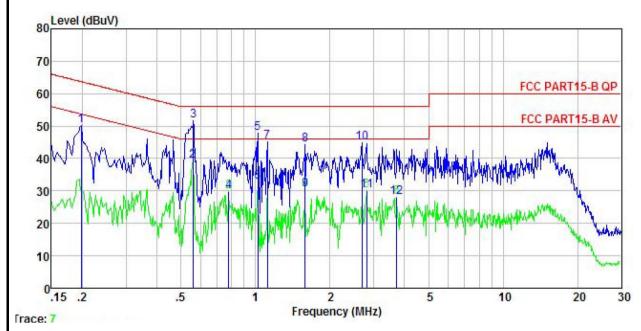
### **6.1 Conducted Emission**

Test Requirement:	FCC Part 15 B Section 15.107				
Test Frequency Range:	150kHz to 30MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9kHz, VBW=30kHz				
Limit:	Frequency range (MHz)         Limit (dBμV)           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:	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	<ol> <li>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.</li> <li>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).</li> <li>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.</li> </ol>				
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:	1.8 inch 2G Senior Phone	Product model:	SR4
Test by:	YT	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		Remark
	MHz	dBu∜	<u>ab</u>	<u>ab</u>	—dBu⊽	—dBu∜	<u>ab</u>	
1	0.198	40.20	-0.67	10.76	50.29	63.71	-13.42	QP
2	0.558	29.20	-0.65	10.76	39.34	46.00	-6.66	Average
3	0.561	41.45	-0.65	10.76	51.59	56.00	-4.41	QP
1 2 3 4 5 6	0.779	19.51	-0.65	10.80	29.71	46.00	-16.29	Average
5	1.021	37.55	-0.68	10.87	47.82	56.00	-8.18	QP
6	1.021	22.50	-0.68	10.87	32.77	46.00	-13.23	Average
7	1.117	34.89	-0.68	10.88	45.18	56.00	-10.82	QP
7 8 9	1.585	34.04	-0.70	10.93	44.41	56.00	-11.59	QP
9	1.585	19.96	-0.70	10.93	30.33	46.00	-15.67	Average
10	2.692	34.20	-0.67	10.93	44.73	56.00	-11.27	QP
11	2.809	19.66	-0.66	10.93	30.22	46.00	-15.78	Average
12	3.720	17.41	-0.65	10.90	28.12	46.00	-17.88	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:	1.8 inch 2G Senior	Phone	Product mod	del: SR4	
Test by:	YT		Test mode:	PC mod	e
Test frequency:	150 kHz ~ 30 MHz		Phase:	Neutral	
Test voltage:	AC 120 V/60 Hz		Environmen	t: Temp: 2	22.5℃ Huni: 55%
80 Level (dBuV) 70 60 50 40 2 30 10 0.15 2	.5			FOTO TO THE THE THE	CC PART15-B QP CC PART15-B AV
.15 .Z	.5	The second secon	ncy (MHz)	10	20 30
Fre	Read LISN q Level Factor	Cable Loss Level	Limit Over Line Limit B	Remark	
MH	z dBuV dB	dB dBuV	dBu∀ dB		
1 0.18 2 0.19 3 0.28 4 0.56 5 0.56 6 0.73 7 1.03 8 1.03 9 1.60 10 1.60 11 1.78	4 25.39 -0.67 6 44.14 -0.67 7 40.41 -0.65 7 27.28 -0.65 1 20.21 -0.64 2 34.31 -0.68 2 19.85 -0.68 2 33.75 -0.70 2 19.24 -0.70 1 19.33 -0.71	10.76 35.48 10.74 54.22 10.76 50.55 10.76 37.42 10.78 30.39 10.87 44.58 10.87 30.12 10.93 44.12 10.93 29.61 10.95 29.73	64. 20	Average QP Average Average QP Average QP Average 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.



### 6.2 Radiated Emission

Test Requirement:	FCC Part 15 B Se	ection 15.10	9			
Test Frequency Range:	30MHz to 6000M	Hz				
Test site:	Measurement Dis	stance: 3m (	Sem	i-Anechoic (	Chamber)	)
Receiver setup:	Frequency	Detecto	r	RBW	VBW	Remark
Γισσοίνοι σοιαρ.	30MHz-1GHz	Quasi-pe		120kHz	300kHz	
	Above 1GHz	Peak		1MHz	3MHz	
	Above IGHZ	RMS		1MHz	3MHz	Average Value
Limit:	Frequenc	•	Lim	nit (dBuV/m	@3m)	Remark
	30MHz-88N			40.0		Quasi-peak Value
	88MHz-216I			43.5		Quasi-peak Value
	216MHz-960			46.0		Quasi-peak Value
	960MHz-10	iHZ		54.0		Quasi-peak Value
	Above 1GI	Hz -		54.0		Average Value
Test setup:				74.0		Peak Value
	Tum 0.8m Table 0.8m A Ground Plane Above 1GHz	4m	, , , , , , , , , , , , , , , , , , ,	RFT		
	AE (Turnt		3m		Antenna Tow	wer
Test Procedure:	ground at a 3 ndegrees to detect 2. The EUT was sometime which was mound at a 2 ndegrees to detect the detect of t	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 nterference- e-height a er to four the field	ce-receiving antenna, antenna tower. meters above the





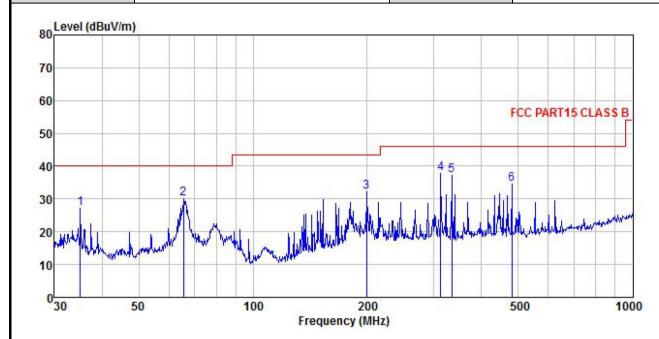
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	<ol><li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li></ol>
	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:	1.8 inch 2G Senior Phone	Product Model:	SR4
Test By:	YT	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



	Freq		Antenna Factor			Preamp Factor		Limit Line	Over Limit	Remark
9	MHz	dBu∀	<u>dB</u> /m	<u>d</u> B	<u>ab</u>	<u>d</u> B	$\overline{dBuV/m}$	dBuV/m	<u>ab</u>	
1	35.128	44.02	12.61	0.34	0.00	29.95	27.02	40.00	-12.98	QP
2	65.573	49.72	9.84	0.43	0.00	29.75	30.24	40.00	-9.76	QP
2	199.286	42.13	18.23	0.72	0.00	28.83	32.25	43.50	-11.25	QP
4	312.179	46.52	18.73	0.88	0.00	28.48	37.65	46.00	-8.35	QP
5	333.687	46.10	18.77	0.91	0.00	28.52	37.26	46.00	-8.74	QP
6	480.528	43.16	19.33	1.08	0.00	28.92	34.65	46.00	-11.35	QP

#### Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



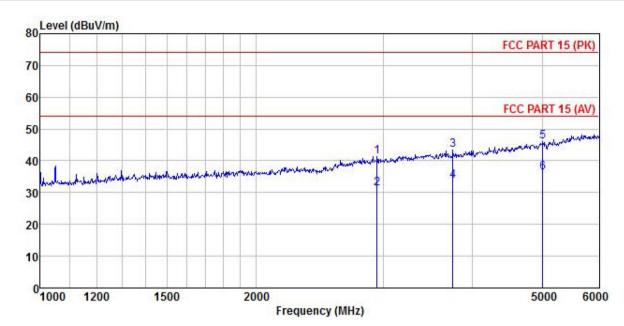
	Name:	1.8 incl	h 2G Seni	or Phone	e		Prod	uct Mode	el:	SR4			
st By:		YT					Test	mode:		PC mo	de		
st Freq	quency:	30 MHz	z ~ 1 GHz				Pola	rization:		Horizo	ntal		
st Volt	age:	AC 120	0/60Hz				Envi	ronment:	-	Temp:	<b>24</b> ℃	Hu	ni: 579
80 Le	vel (dBuV/m	1)											
70													
60										FCC PA	NDT46	CLAC	e D
50										ruc PA	41113	CLAS	
40								4					
							3		5			6	5
30						14	e. h	No.	11		1	. 1.	in i
30 20			1			للبالباليل	William .		MALLALINA.	d Popular	MARIA	والمساعلين	Mil. or
Coperator .	party per de magazaten	whole	May	March	photo people and	NAME OF THE PARTY	hall Highland	Lad Adding		(a) Long daily	Mari		LAHAL, A
20		when so	Nam	100	probper (mode)	20	00 MHz)	add Hillia		500	Mario		1000
20 10			Many		Name of	1 2 12 12		add Hillia		500	Lun	4.4	1000
20 10		50	untenna	100	Free	20 quency (f	MHz)	Limit Line	Over		rk	. de la	1000
20 10		50 ReadA	untenna	100	Free	20 quency (P Preamp Factor	MHz)	Line	Over		rk		1000

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor 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:	1.8 inch 2G Senior Phone	Product Model:	SR4
Test By:	YT	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		intenna Factor					Limit Line	Over Limit	Remark
3	MHz	dBu₹	<u>dB</u> /π		<u>ab</u>	<u>ab</u>	$\overline{dBuV/m}$	dBuV/m	<u>ab</u>	
1	2944.621	47.88	28.30	4.83	1.87	41.55	41.33	74.00	-32.67	Peak
2	2944.621	37.87	28.30	4.83	1.87	41.55	31.32	54.00	-22.68	Average
3	3755.490	48.37	29.02	5.55	2.20	41.74	43.40	74.00	-30.60	Peak
4	3755.490	38.59	29.02	5.55	2.20	41.74	33.62	54.00	-20.38	Average
5	5008.886	47.73	31.20	6.56	2.50	41.88	46.11	74.00	-27.89	Peak
6	5008.886	37.85	31.20	6.56	2.50	41.88	36.23	54.00	-17.77	Average

#### Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



oduct Name	<b>)</b> :	1.8 ind	ch 2G Se	enior Pho	one		P	roduct N	Model:	SR4		
st By:		YT					Т	est mod	e:	PC mod	de	
st Frequenc	cy:	1 GHz	z ~ 6 GHz	Z			Р	olarizati	on:	Horizon	ntal	
st Voltage:		AC 12	20/60Hz				E	nvironm	ent:	Temp: 2	<b>24</b> ℃	Huni: 5
Level (di	BuV/m	14										
80										FCC	PART 1	5 (PK)
70												
60												
00										FCC	PART 1	5 (AV)
50									3		5	was the spector
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30 20 10	agadh aga	App Magning and a street	and the state of t	no personal patricular	hand on the second	eagelias h <sub>a</sub> theter of the		2	4			
30 20 10	1200	1	1500		2000			2	4		5000	6000
30 20 10	1200	1	1500		2000	equency (		2	4		5000	6000
30 20 10 0		ReadA	ıntenna	Cable	2000 Fre	equency (	(MHz)	2 Limit	Over		5000	6000
30 20 10 0	Freq	ReadA Level	intenna Factor	Cable Loss	2000 Fre Aux Factor	equency ( Preamp Factor	(MHz) Level	Line	Limit	Remark	5000	6000
30 20 10 0 1000	Freq MHz	ReadA	ıntenna	Cable	2000 Fre Aux Factor	equency ( Preamp Factor	(MHz) Level dBuV/m	Line dBuV/m	Limit dB		5000	6000
30 20 10 0 1000	Freq MHz	ReadA Level	intenna Factor	Cable Loss	2000 Fre Aux Factor dB	Preamp Factor dB	(MHz)  Level  dBuV/m  42.49	Line dBuV/m 74.00	Limit	Peak	5000	6000
30 20 10 0 1000	Freq MHz .330 .330 .389	ReadA Level dBuV 48.79	intenna Factor ——dB/m 28.41	Cable Loss	2000 Free Aux Factor dB 1.90 1.90 2.20	Preamp Factor ————————————————————————————————————	(MHz)  Level  dBuV/m  42.49 32.41 44.19	Line  dBuV/m  74.00 54.00 74.00	Limit	Peak Average	5000	6000

#### Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.