Report No: CCISE190902106

FCC REPORT

Applicant: General Procurement, Inc

Address of Applicant: 800 E Dyer Road Santa Ana, CA 92705 United States

Equipment Under Test (EUT)

Product Name: 5.0 inch smartphone

Model No.: Eternity G50L

Trade mark: Hyundai

FCC ID: 2AIOHHT1G50L

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 06 Sep., 2019

Date of Test: 07 Sep., to 27 Sep., 2019

Date of report issued: 29 Sep., 2019

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.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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





Version

Version No.	Date	Description
00	29 Sep., 2019	Original

Mike. DU Date:
Test Engineer Tested by: 29 Sep., 2019

Reviewed by: 29 Sep., 2019

Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366



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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:	General Procurement, Inc	
Address:	: 800 E Dyer Road Santa Ana, CA 92705 United States	
Manufacturer/Factory:	Shen Zhen Cheng Fong Digital-Tech Limited	
Address:	Building A, ChengFong Industrial Area, Huaxing road, Dalang, Longhua, Shen Zhen, China	

5.2 General Description of E.U.T.

Product Name:	5.0 inch smartphone
Model No.:	Eternity G50L
Power supply:	Rechargeable Li-ion Battery DC3.8V, 2300mAh
AC adapter :	Model: K-T50501000U1 Input: AC100-240V, 50/60Hz, 0.15A 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	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
LENOVO	Laptop	SL510	2847A65	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	Unshielded	0.8m	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. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, 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. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,
Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366

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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	03-18-2019	03-17-2020
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2019	03-17-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2019	03-17-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019
EMI Test Software	AUDIX	E3	\	/ersion: 6.110919	b
Pre-amplifier	HP	8447D	2944A09358	03-18-2019	03-17-2020
Pre-amplifier	CD	PAP-1G18	11804	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2019	03-17-2020
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2019	03-17-2020
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2019	03-17-2020

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	03-18-2019	03-17-2020	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-18-2019	03-17-2020	
LISN	CHASE	MN2050D	1447	03-18-2019	03-17-2020	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2021	
Cable	HP	10503A	N/A	03-18-2019	03-17-2020	
EMI Test Software	AUDIX	E3	Version: 6.110919b			



6 Test results and Measurement Data

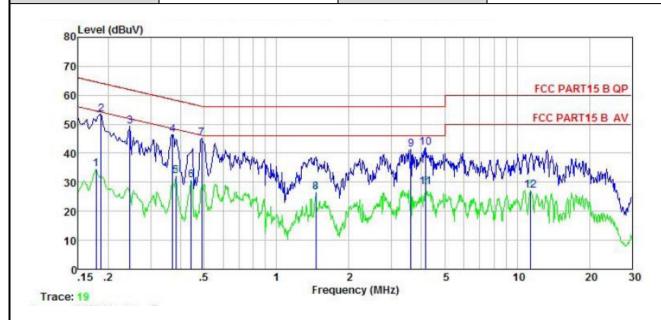
6.1 Conducted Emission

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:	Fraguency range (MUT)	Limit	(dBµV)	
	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 logarith	m of the frequency.		
Test precedure	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: 2014 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 smartphone	Product model:	Eternity G50L
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%



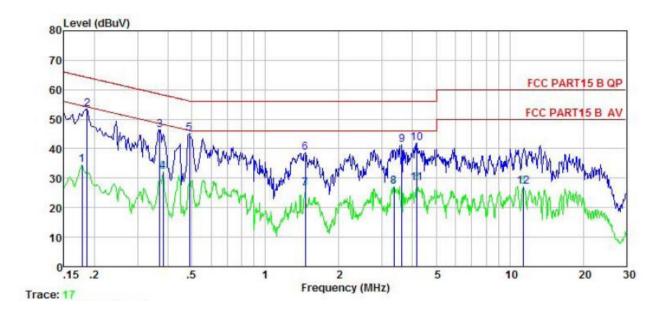
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∀	₫B	₫B	dBu₹	dBu∜	<u>d</u> B	
1 2 3 4 5 6 7 8 9 10	0.178	24.24	-0.43	10.77	34.58			Average
2	0.186	43.16	-0.42	10.76	53.50		-10.70	
3	0.246	38.83	-0.40	10.75	49.18	61.91	-12.73	QP
4	0.369	35.94	-0.37	10.73	46.30	58.52	-12.22	QP
5	0.381	21.86	-0.37	10.72	32.21	48.25	-16.04	Average
6	0.442	20.22	-0.38	10.74	30.58			Average
7	0.489	34.83	-0.39	10.76	45.20		-10.99	
8	1.456	16.11	-0.40	10.92	26.63			Average
9	3.623	30.99	-0.45	10.90	41.44		-14.56	
10	4.180	31.60	-0.47	10.88	42.01		-13.99	
11	4.180	17.85	-0.47	10.88	28.26			Average
12	11.317	16.94	-0.63	10.93	27.24			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 smartphone	Product model:	Eternity G50L
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
-	MHz	dBu∜	āB	dB	dBu₹	dBu∇	<u>d</u> B	
1	0.178	24.50	-0.69	10.77	34.58	54.59	-20.01	Average
2	0.186	43.43	-0.69	10.76	53.50	64.20	-10.70	QP
3	0.369	36.21	-0.64	10.73	46.30	58.52	-12.22	QP
4	0.381	22.13	-0.64	10.72	32.21	48.25	-16.04	Average
5	0.489	35.09	-0.65	10.76	45.20	56.19	-10.99	QP
1 2 3 4 5 6 7 8	1.456	28.41	-0.65	10.92	38.68	56.00	-17.32	QP
7	1.456	16.36	-0.65	10.92	26.63	46.00	-19.37	Average
8	3.364	16.87	-0.68	10.91	27.10	46.00	-18.90	Average
9	3.623	31.23	-0.69	10.90	41.44	56.00	-14.56	QP
10	4.180	31.83	-0.70	10.88	42.01	56.00	-13.99	QP
11	4.180	18.08	-0.70	10.88	28.26			Average
12	11.317	17.11	-0.80	10.93	27.24			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

0.2 Kaulati	ed Emissior	1					_	
Test Rec	quirement:	FCC Part 15 B S	ection 15.1	09				
Test Free	quency Range:	30MHz to 6000M	1Hz					
Test site	:	Measurement Dis	stance: 3m	(Sen	ni-Anechoic	Chamber)		
Receiver	setup:	Frequency	Detecto		RBW	VBW	Remark	
110001101	ootup.	30MHz-1GHz	Quasi-pe		120kHz	300kHz	Quasi-peak Value	
		Above 1GHz	Peak		1MHz	3MHz		
			RMS		1MHz	3MHz	Average Value	
Limit:		Frequenc		Lim	nit (dBuV/m	@3m)	Remark	
			30MHz-88MHz 40.0 Quasi-peak Valu					
		88MHz-216l			43.5		Quasi-peak Value	
		216MHz-960 960MHz-10			46.0 54.0		Quasi-peak Value Quasi-peak Value	
		900101112-10	31 IZ		54.0		Average Value	
		Above 1G	Hz		74.0		Peak Value	
Test setu	ın.	Below 1GHz			7 110		r oak valdo	
		Tum 0.8m Table 0.8m A Above 1GHz	4m			Antenna Tower Search Antenna Test reiver		
		SOCM (Turn	EUT G Test Recei	THE STREET	Horn Antenna Pre- Amptifer	Antenna Tow Controller	rer Wall	
Test Pro	cedure:	ground at a 3 in degrees to det 2. The EUT was which was mo 3. The antenna his ground to dete	meter semi termine the set 3 meter unted on the neight is var ermine the r vertical po	-aned posite rs aw ne top ried fr maxin	choic cambe tion of the hi ay from the o of a variabl rom one met num value o	r. The tab ghest radi interference e-height a ter to four f the field	ce-receiving antenna, intenna tower. meters above the	





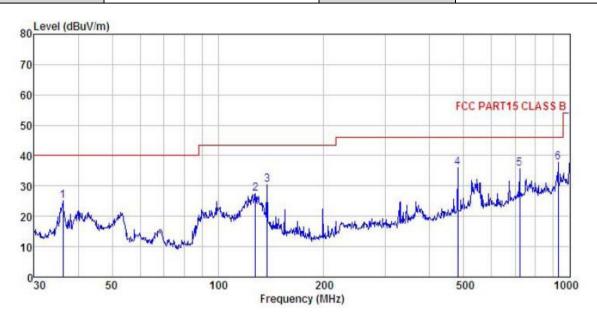
	 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified 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 smartphone	Product Model:	Platinum C4
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



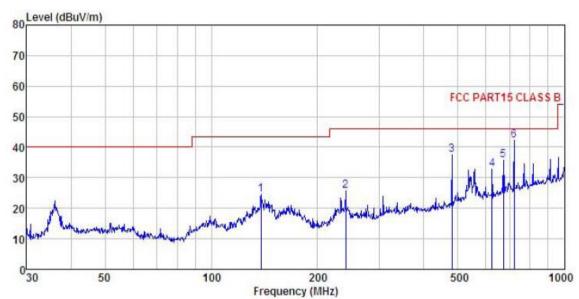
	Freq	Keada Level				Level			
	MHz	dBu∀	dB/m	₫B	dB	dBuV/m	dBuV/m	<u>dB</u>	
1	36.254	42.52	11.50	1.11	29.94	25.19	40.00	-14.81	QP
2	127.665	44.26	10.32	2.26	29.34	27.50	43.50	-16.00	QP
3	137.903	47.63	9.65	2.37	29.28	30.37	43.50	-13.13	QP
4	480.528	43.96	17.52	3.46	28.92	36.02	46.00	-9.98	QP
4 5	721.726	39.44	20.49	4.26	28.58	35.61	46.00	-10.39	QP
6	929.008	38.98	22.61	4.00	27.79	37.80	46.00	-8.20	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 smartphone	Product Model:	Platinum C4
Test By:	Mike	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor				Limit Line		Remark
	MHz	dBu₹	<u>dB</u> /m	dB	<u>d</u> B	dBuV/m	dBuV/m	<u>dB</u>	
1	138.387	41.89	9.61	2.38	29.28	24.60	43.50	-18.90	QP
123456	239.987	39.20	12.30	2.82	28.59	25.73	46.00	-20.27	QP
3	480.528	45.39	17.52	3.46	28.92	37.45	46.00	-8.55	QP
4	625.078	38.21	19.61		28.86				
5	672.845	40.43	20.05	4.00	28.73	35.75	46.00	-10.25	QP
6	721.726	46.07	20.49	4.26	28.58	42.24	46.00	-3.76	QP

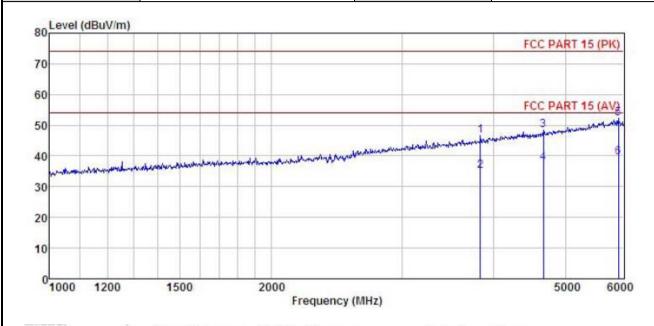
Remark:

- 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 smartphone	Product Model:	Platinum C4
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%



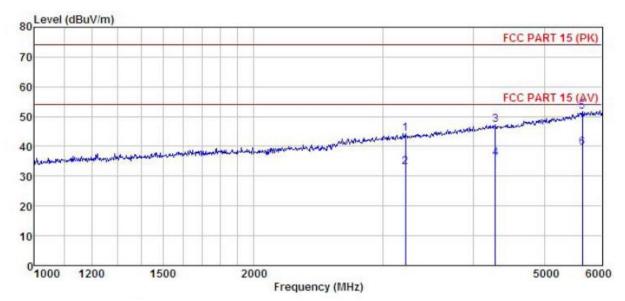
	Freq		intenna Factor				Limit Line		
1	MHz	dBu∜	<u>dB</u> /m	dB	<u>dB</u>	dBuV/m	dBuV/m	dB	
1	3836.743	52.45	29.76	6.09	41.79	46.51	74.00	-27.49	Peak
2	3836.743	40.96	29.76	6.09	41.79	35.02	54.00	-18.98	Average
3	4670.008	52.73	30.75	6.87	42.03	48.32		-25.68	
4	4670.008	42.10	30.75	6.87	42.03	37.69	54.00	-16.31	Average
5	5898.334	53.70	32.68	7.91	42.03	52.26	74.00	-21.74	Peak
6	5898.334	41.05	32.68	7.91	42.03	39.61	54.00	-14.39	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:	5.0 inch smartphone	Product Model:	Platinum C4		
Test By:	Mike	Test mode:	PC mode		
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%		



	Freq	ReadAntenna Level Factor					Limit Line		Remark
	MHz	dBu∜	dB/m	dB	<u>d</u> B	dBuV/m	dBuV/m	<u>dB</u>	
1	3226.629	51.82	28.55	5.45	41.40	44.42	74.00	-29.58	Peak
2	3226.629	40.40	28.55	5.45	41.40	33.00			Average
2	4286.801	52.33	30.36	6.54	41.88	47.35	74.00	-26.65	Peak
4	4286.801	40.92	30.36	6.54	41.88	35.94	54.00	-18.06	Average
5	5640.169	53.32	32.63	7.45	41.85	51.55	74.00	-22.45	Peak
6	5640.169	41.25	32.63	7.45	41.85	39.48			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.