Report No: CCISE181201106

FCC REPORT

Applicant: SKY PHONE LLC

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

Equipment Under Test (EUT)

Product Name: 4G Smart Phone

Model No.: Elite T4

Trade mark: SKY DEVICES

FCC ID: 2ABOSSKYELITET4

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 04 Dec., 2018

Date of Test: 04 Dec., to 25 Dec., 2018

Date of report issued: 26 Dec., 2018

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.





2 Version

Version No.	Date	Description
00	26 Dec., 2018	Original

Tested by: Date: 26 Dec., 2018

Test Engineer

Reviewed by: 26 Dec., 2018

Project Engineer





3 Contents

			Page
1	C	OVER PAGE	1
2	V	ERSION	2
3	C	ONTENTS	3
4	TI	EST SUMMARY	4
5	G	ENERAL INFORMATION	5
	5.1	CLIENT INFORMATION	5
	5.2	GENERAL DESCRIPTION OF E.U.T.	5
	5.3	TEST MODE	5
	5.4	MEASUREMENT UNCERTAINTY	5
	5.5	DESCRIPTION OF SUPPORT UNITS	6
	5.6	RELATED SUBMITTAL(S) / GRANT (S)	6
	5.7	DESCRIPTION OF CABLE USED	6
	5.8	LABORATORY FACILITY	6
	5.9	LABORATORY LOCATION	6
	5.10	TEST INSTRUMENTS LIST	7
6	TI	EST RESULTS AND MEASUREMENT DATA	8
	6.1	CONDUCTED EMISSION	8
	6.2	RADIATED EMISSION	11
7	TI	EST SETUP PHOTO	17
0	_	THE CONSTRUCTIONAL DETAILS	10





4 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.



5 General Information

5.1 Client Information

Applicant:	SKY PHONE LLC
Address:	1348 Washington Av. Suite 350, Miami Beach, FL33139
Manufacturer: Shenzhen Tianruixiang Communication Equipment Co., Ltd	
Address:	12F, Zhongshan University Science Building Xuefu Road, Hi-tech Park, Shenzhen, China

Report No: CCISE181201106

5.2 General Description of E.U.T.

Product Name:	4G Smart Phone
Model No.:	Elite T4
Power supply:	Rechargeable Li-ion Battery DC3.7V-1400mAh
AC adapter :	Model: Elite T4 Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 0.5A
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)	±2.22 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)

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

Report No: CCISE181201106

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	Shielding	1.0m	EUT	PC/Adapter

5.8 Laboratory Facility

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

• FCC - Registration No.: 727551

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

IC - Registration No.: 10106A-1

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

5.9 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



5.10 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	03-16-2018	03-15-2019
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
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	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019

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	03-07-2018	03-06-2019
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-07-2018	03-06-2019
LISN	CHASE	MN2050D	1447	03-19-2018	03-18-2019
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019
Cable	HP	10503A	N/A	03-07-2018	03-06-2019
EMI Test Software	AUDIX	E3	Version: 6.110919b		



6 Test results and Measurement Data

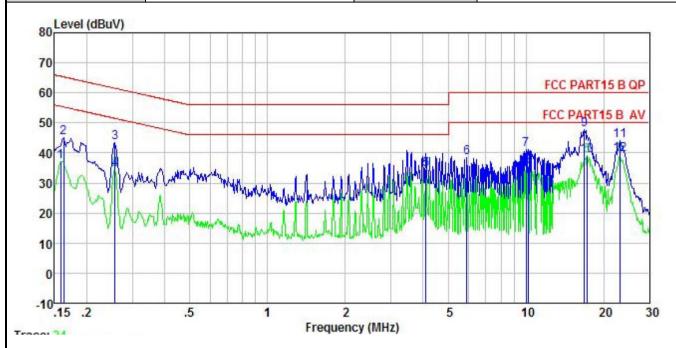
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107				
Test Method:	ANSI C63.4:2014				
Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz			
Class / Severity:	Class B				
Receiver setup:	RBW=9kHz, VBW=30kHz				
Limit:	Fraguerov range (MIII-)	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	nm of the frequency.			
Test setup:	Reference Plan	ne	_		
	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC po			
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 environment:	Temp.: 23 °C Humid.: 56% Press.: 101kPa				
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				
	•				



Measurement data:

Product name:	4G Smart Phone	Product model:	Elite T4
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%



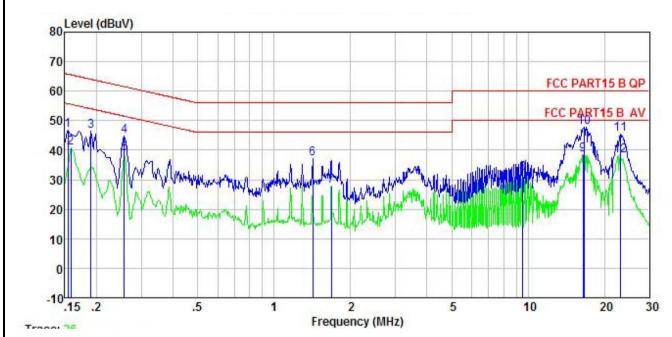
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u>	₫B	dBu₹	dBu∜	<u>ab</u>	
1	0.158	26.28	0.17	10.77	37.22	55.56	-18.34	Average
2	0.162	34.27	0.17	10.77	45.21	65.34	-20.13	QP
3	0.258	32.69	0.14	10.75	43.58	61.51	-17.93	QP
4	0.258	23.57	0.14	10.75	34.46	51.51	-17.05	Average
5	4.092	23.47	0.18	10.89	34.54	46.00	-11.46	Average
6	5.898	27.50	0.23	10.82	38.55	60.00	-21.45	QP
7	10.019	29.93	0.32	10.94	41.19	60.00	-18.81	QP
1 2 3 4 5 6 7 8 9	10.179	24.12	0.32	10.94	35.38	50.00	-14.62	Average
9	16.839	36.73	0.30	10.91	47.94		-12.06	
10	17, 291	27.82	0.30	10.91	39.03			Average
11	23.018	32.95	0.31	10.89	44.15		-15.85	
12	23.018	28.32	0.31	10.89	39.52			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:	4G Smart Phone	Product model:	Elite T4
Test by:	YT	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∀	₫B	₫B	dBu₹	₫₿uѶ	<u>dB</u>	
1	0.154	35.11	0.98	10.78	46.87	65.78	-18.91	QP
2	0.158	29.04	0.98	10.77	40.79	55.56	-14.77	Average
3	0.190	34.70	0.93	10.76	46.39	64.02	-17.63	QP
4	0.258	32.99	0.95	10.75	44.69	61.51	-16.82	QP
5	0.258	27.03	0.95	10.75	38.73	51.51	-12.78	Average
6	1.418	25.14	0.98	10.92	37.04	56.00	-18.96	QP
7	1.680	15.92	0.98	10.94	27.84	46.00	-18.16	Average
1 2 3 4 5 6 7 8 9	9.552	20.37	1.02	10.92	32.31			Average
9	16.486	26.75	0.83	10.91	38.49	50.00	-11.51	Average
10	16.573	36.15	0.83	10.91	47.89	60.00	-12.11	QP
11	23.018	33.86	0.68	10.89	45.43	60.00	-14.57	QP
12	23.140	26.62	0.68	10.89	38.19		-11.81	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

O.Z Itaaiatea Eiiii33i0ii	T						
Test Requirement:	FCC Part 15 B	Section 1	5.109				
Test Method:	ANSI C63.4:201	4					
Test Frequency Range:	30MHz to 6000I	MHz					
Test site:	Measurement D	istance:	3m (Se	mi-Anechoi	c Char	nber)	
Receiver setup:	Frequency	Dete	ctor	RBW	VB\	N	Remark
	30MHz-1GHz	Quasi-		120kHz	300k		Quasi-peak Value
	Above 1GHz	Pea		1MHz	3MF		Peak Value
		RM		1MHz	3MF	IZ I	Average Value
Limit:	Frequenc		Limit	(dBuV/m @	23m)	_	Remark
	30MHz-88M			40.0			Quasi-peak Value
	88MHz-216M			43.5			Quasi-peak Value
	216MHz-960			46.0			Quasi-peak Value
	960MHz-1G	pΠZ		54.0 54.0			Quasi-peak Value
	Above 1GI	Ηz		74.0			Average Value Peak Value
Test setup:	Below 1GHz			74.0			1 car value
	EUT	4m 4m 1m			Searc Anten		
	SOCIM (To	EUT Tritable)	Ground R	Horn Ante	Ante	enna Tow	ver Wall





Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.							
		T was set 3 n a, which was i	•			•		
	ground		the maximun	n value of the	field stren			
	and the	h suspected on the antenna rotatable tab maximum rea	a was tuned t le was turned	o heights fror	m 1 meter t	o 4 meters		
		t-receiver sys dth with Maxi			ect Function	and Specified		
	limit spe EUT wo margin	ecified, then to	esting could bed. Otherwise ested one by	be stopped and the emission one using periods.	nd the peal ons that did eak, quasi- _l			
Test environment:	Temp.:	25 °C	Humid.:	55%	Press.:	1 01kPa		
Test Instruments:	Refer to se	ection 5.9 for	details					
Test mode:	Refer to se	ection 5.3 for	details					
Test results:	Passed							
Remark:	All of the o	bserved valu	e above 6GH	Iz ware the n	niose floor ,	which were no		

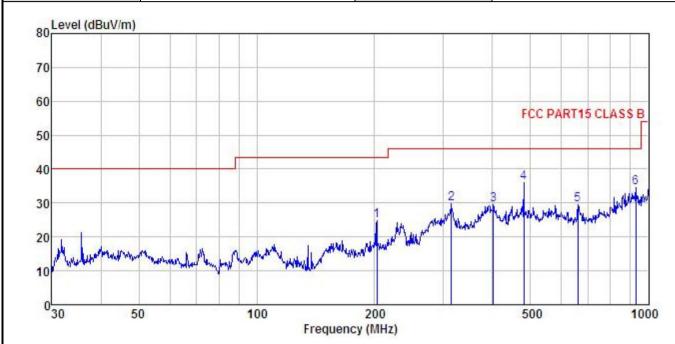




Measurement Data:

Below 1GHz:

Product Name:	4G Smart Phone	Product Model:	Elite T4
Test By:	YT	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor				Limit Line		
	MHz	dBu₹		dB	dB	$\overline{dBuV/m}$	$\overline{dBuV/m}$		
1	202.810	39.15	11.61	2.87	28.81	24.82	43.50	-18.68	QP
2	314.377	41.37	13.90	2.98	28.48	29.77			
3	401.839	39.59	15.52	3.08	28.78	29.41	46.00	-16.59	QP
4	480.528	44.57	16.97	3.46	28.92	36.08	46.00	-9.92	QP
5 6	661.151	34.68	19.80	3.93	28.75	29.66	46.00	-16.34	QP
6	929.008	35.89	22.36	4.00	27.79	34.46	46.00	-11.54	QP

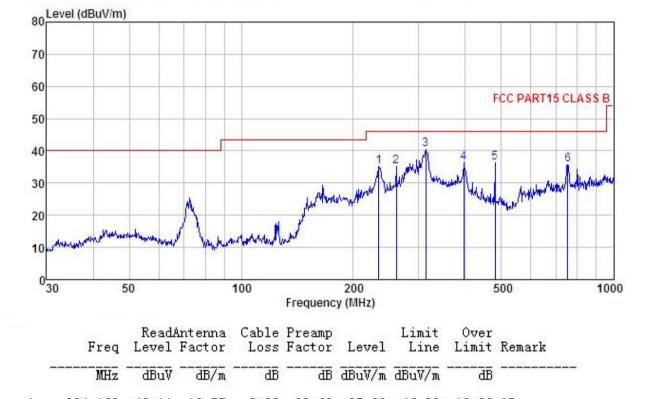
Remark:

- 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:	4G Smart Phone	Product Model:	Elite T4
Test By:	YT	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	MHz	dBu∀	∃B/m	₫B	dB	dBuV/m	dBuV/m	₫B	
1	234.168	48.11	12.77	2.83	28.63	35.08	46.00	-10.92	QP
2		47.58	13.37	2.84	28.52	35.27	46.00	-10.73	QP
3	313.276	52.11	13.88	2.98	28.48	40.49	46.00	-5.51	QP
4	396.242	46.69	15.44	3.08	28.76	36.45	46.00	-9.55	QP
5	480.528	44.87	16.97	3.46	28.92	36.38	46.00	-9.62	QP
6	752.743	38.90	21.00	4.36	28.46	35.80	46.00	-10.20	QP

Remark:

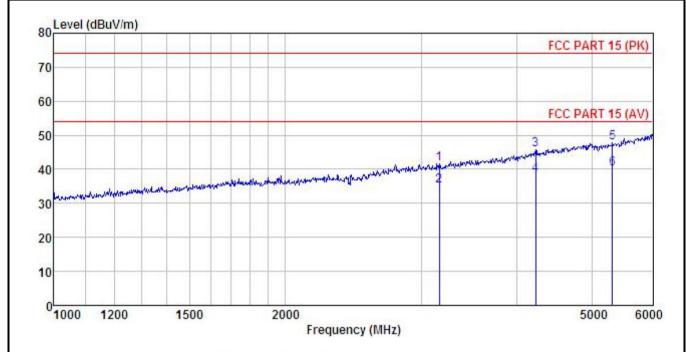
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





Above 1GHz:

Product Name:	4G Smart Phone	Product Model:	Elite T4
Test By:	YT	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



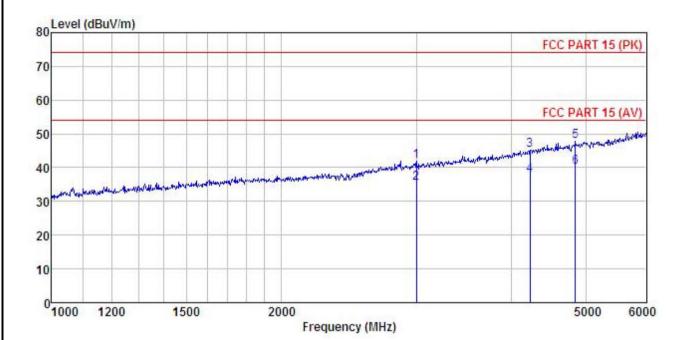
	Freq		Antenna Factor				Limit		Remark
	MHz	dBu₹	dB/m		<u>ab</u>	$\overline{dBuV/m}$	dBuV/m	<u>ab</u>	
1	3170.612	44.85	28.71	5.41	41.42	41.55	74.00	-32.45	Peak
2	3170.612	38.46	28.71	5.41	41.42	35.16	54.00	-18.84	Average
3	4228.805	45.80	30.63	6.45	41.83	45.61	74.00	-28.39	Peak
4	4228.805	38.62	30.63	6.45	41.83	38.43	54.00	-15.57	Average
5	5320.338	45.33	32.23	7.10	41.90	47.96	74.00	-26.04	Peak
6	5320.338	37.41	32.23						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:	4G Smart Phone	Product Model:	Elite T4
Test By:	YT	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		Cable Preamp Loss Factor			Limit Line		Remark
	MHz	dBu∇	— <u>d</u> B/m	<u>ab</u>	<u>d</u> B	$\overline{dBuV/m}$	dBuV/m	<u>ab</u>	
1	3002.482	45.80	28.60	5.35	41.51	42.04	74.00	-31.96	Peak
2	3002.482	39.25	28.60	5.35	41.51	35.49	54.00	-18.51	Average
3	4228.805	45.38	30.63		41.83			-28.81	
4	4228.805	37.95	30.63	6.45	41.83	37.76	54.00	-16.24	Average
5	4845.901	46.17	31.66	6.83	41.83	47.75	74.00	-26.25	Peak
6	4845.901	38.58	31.66	6.83	41.83	40.16	54.00	-13.84	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.