Report No: CCISE170500505

FCC REPORT

Applicant: General Procurement, INC.

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

United States

Equipment Under Test (EUT)

Product Name: 3G smartphone

Model No.: A26062K, UW6009K, VR6031

Trade mark: HYUNDAI

FCC ID: S94A26062K

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 02 May, 2017

Date of Test: 03 May, to 12 May, 2017

Date of report issued: 15 May, 2017

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.





2 Version

Version No.	Date	Description
00	15 May, 2017	Original

Tested by: Zora Lee Date: 15 May, 2017

Test Engineer

Reviewed by: (Query (Date: 15 May, 2017

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	

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



5 General Information

5.1 Client Information

Applicant:	General Procurement, INC.
Address of Applicant:	800 E Dyer Road Santa Ana, Ca 92705Santa Ana, CA 92705United States
Manufacturer/Factory:	General Procurement, INC.
Address of Manufacturer/ Factory:	800 E Dyer Road Santa Ana, Ca 92705Santa Ana, CA 92705United States

5.2 General Description of E.U.T.

Product Name:	3G smartphone
Model No.:	A26062K, UW6009K, VR6031
Power supply:	Rechargeable Li-ion Battery DC3.7V-2500mAh
AC adapter :	Model: TPA-46B050100UU Input: AC100-240V 50/60Hz 0.2A Output: DC 5.0V, 1000mA
Remark:	The No.: A26062K, UW6009K, VR6031 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being Model name.

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

Items	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 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: CCISE170500505

5.5 Description of Support Units

Manufacturer	Manufacturer Description		Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	MONITOR E178FPC N/A		DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
HP	P Printer CB495		05257893	DoC
MERCURY	MERCURY Wireless router		12922104015	FCC ID
NAKAMICHI	Bluetooth earphone	T8	N/A	FCC ID

5.6 Laboratory Facility

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

• FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

• 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.

5.7 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





5.8 Test Instruments list

Radiated Emission:								
Item Test Equipment		st Equipment Manufacturer		Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)		
1	3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017		
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	02-25-2017	02-24-2018		
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	02-25-2017	02-24-2018		
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	02-25-2017	02-24-2018		
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	02-25-2017	02-24-2018		
6	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	02-25-2017	02-24-2018		
7	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	02-25-2017	02-24-2018		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	N/A	N/A	CCIS0018	02-25-2017	02-24-2018		
10	Coaxial Cable	N/A	N/A	CCIS0020	02-25-2017	02-24-2018		

Cond	Conducted Emission:									
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)				
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	08-23-2014	08-22-2017				
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	02-25-2017	02-24-2018				
3	LISN	CHASE	MN2050D	CCIS0074	02-25-2017	02-24-2018				
4	Coaxial Cable	CCIS	N/A	CCIS0086	02-25-2017	02-24-2018				
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A				



6 Test results and Measurement Data

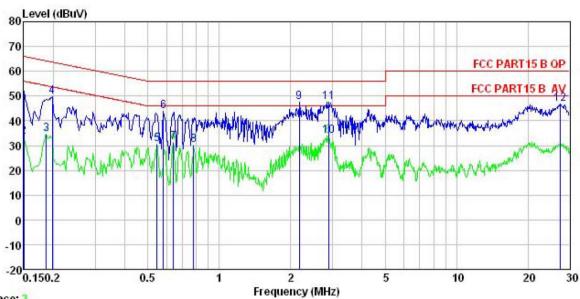
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10	07				
Test Method:	ANSI C63.4:2014					
Test Frequency Range:	150kHz to 30MHz					
Class / Severity:	Class B					
Receiver setup:	RBW=9kHz, VBW=30kHz					
Limit:	Francisco de CALLE	Lir	mit (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		<u>'</u>			
Test setup:	Reference Plan	ne				
	AUX 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 line impedance stabilization 500hm/50uH coupling impedance. The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs). Both sides of A.C. line are interference. In order to fir positions of equipment an according to ANSI C63.4: 	on network(L.I.S.N.) bedance for the mea e also connected to ohm/50uH coupling s to the block diagra e checked for maxim nd the maximum em id all of the interface	asuring equipment. the main power through impedance with 50ohm am of the test setup and mum conducted hission, the relative e cables must be changed			
Test environment:	Temp.: 23 °C Hun	nid.: 56%	Press.: 101kPa			
Test Instruments:	Refer to section 5.7 for detail	ils	·			
Test mode:	Refer to section 5.3 for details					
Test results:	Pass	Pass				



Measurement data:

Line:



Trace: 3

: CCIS Shielding Room : FCC PART15 B QP LISN LINE Site

Condition

EUT : 3G smartphone Model : A26062K Test Mode : PC mode
Power Rating : AC 120/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Zora

Remark

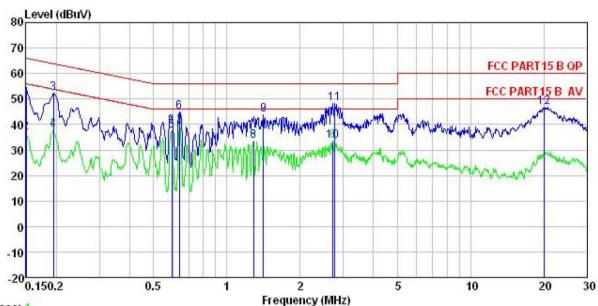
	Freq	Read Level	LISN Factor	Cable Loss		Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u>	āB	dBu∜	dBu∀	<u>dB</u>	
1	0.150	41.19	0.14	10.78	52.11	66.00	-13.89	QP
2	0.150	22.52	0.14	10.78	33.44	56.00	-22.56	Average
3	0.186	23.56	0.15	10.76	34.47	54.20	-19.73	Average
4	0.198	38.68	0.15	10.76	49.59	63.71	-14.12	QP
1 2 3 4 5 6 7 8 9	0.546	19.51	0.26	10.76	30.53	46.00	-15.47	Average
6	0.582	32.83	0.28	10.77	43.88		-12.12	
7	0.641	20.36	0.30	10.77	31.43	46.00	-14.57	Average
8	0.779	19.21	0.30	10.80	30.31	46.00	-15.69	Average
9	2.178	36.15	0.32	10.95	47.42	56.00	-8.58	QP
10	2.884	22.71	0.33	10.92	33.96	46.00	-12.04	Average
11	2.900	36.44	0.33	10.92	47.69	56.00	-8.31	QP
12	27.416	35.60	0.35	10.87	46.82	60.00	-13.18	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.



Neutral:



Trace: 1

Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL Condition

: 3G smartphone EUT : A26062K Model Test Mode : PC mode Power Rating : AC 120/60Hz

Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Zora

Remark

Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
MHz	dBu∜	<u>db</u>		dBu∀	dBu₹	<u>dB</u>	
0.150	43.78	0.12	10.78	54.68			
0.150	25.85	0.12	10.78	36.75	56.00	-19.25	Average
0.194	41.28	0.15	10.76	52.19	63.84	-11.65	QP
0.194	26.85	0.15	10.76	37.76	53.84	-16.08	Average
0.595	26.45	0.29	10.77	37.51	46.00	-8.49	Average
0.637	33.84	0.30	10.77	44.91	56.00	-11.09	QP
0.641	28.00	0.31	10.77	39.08	46.00	-6.92	Average
1.289	22.44	0.26	10.90	33.60	46.00	-12.40	Average
1.411	32.50	0.26	10.91	43.67	56.00	-12.33	QP
2.721	22.39	0.30	10.93	33.62	46.00	-12.38	Average
2.765	36.98	0.30	10.93	48.21	56.00	-7.79	QP
20.056	35.62	0.28	10.93	46.83	60.00	-13.17	QP
	Freq 0.150 0.150 0.194 0.194 0.595 0.637 0.641 1.289 1.411 2.721 2.765	Read Level MHz dBuV 0.150 43.78 0.150 25.85 0.194 41.28 0.194 26.85 0.595 26.45 0.637 33.84 0.641 28.00 1.289 22.44 1.411 32.50 2.721 22.39 2.765 36.98	Read LISN Level Factor MHz dBuV dB 0.150 43.78 0.12 0.150 25.85 0.12 0.194 41.28 0.15 0.194 26.85 0.15 0.595 26.45 0.29 0.637 33.84 0.30 0.641 28.00 0.31 1.289 22.44 0.26 1.411 32.50 0.26 2.721 22.39 0.30 2.765 36.98 0.30	Read LISN Cable Freq Level Factor Loss MHz dBuV dB dB 0.150 43.78 0.12 10.78 0.150 25.85 0.12 10.78 0.194 41.28 0.15 10.76 0.194 26.85 0.15 10.76 0.595 26.45 0.29 10.77 0.637 33.84 0.30 10.77 0.641 28.00 0.31 10.77 1.289 22.44 0.26 10.90 1.411 32.50 0.26 10.91 2.721 22.39 0.30 10.93 2.765 36.98 0.30 10.93	Read LISN Cable Level Factor Loss Level MHz dBuV dB dB dB dBuV 0.150 43.78 0.12 10.78 54.68 0.150 25.85 0.12 10.78 36.75 0.194 41.28 0.15 10.76 52.19 0.194 26.85 0.15 10.76 37.76 0.595 26.45 0.29 10.77 37.51 0.637 33.84 0.30 10.77 44.91 0.641 28.00 0.31 10.77 39.08 1.289 22.44 0.26 10.90 33.60 1.411 32.50 0.26 10.91 43.67 2.721 22.39 0.30 10.93 33.62 2.765 36.98 0.30 10.93 48.21	Read LISN Cable Limit Freq Level Factor Loss Level Line MHz dBuV dB dB dB dBuV dBuV 0.150 43.78 0.12 10.78 54.68 66.00 0.150 25.85 0.12 10.78 36.75 56.00 0.194 41.28 0.15 10.76 52.19 63.84 0.194 26.85 0.15 10.76 37.76 53.84 0.595 26.45 0.29 10.77 37.51 46.00 0.637 33.84 0.30 10.77 44.91 56.00 0.641 28.00 0.31 10.77 39.08 46.00 1.289 22.44 0.26 10.90 33.60 46.00 1.411 32.50 0.26 10.91 43.67 56.00 2.721 22.39 0.30 10.93 33.62 46.00 2.765 36.98 0.30 10.93 48.21 56.00	Read LISN Cable Limit Over Loss Level Line Limit MHz dBuV dB dB dB dBuV dBuV dB 0.150 43.78 0.12 10.78 54.68 66.00 -11.32 0.150 25.85 0.12 10.78 36.75 56.00 -19.25 0.194 41.28 0.15 10.76 52.19 63.84 -11.65 0.194 26.85 0.15 10.76 52.19 63.84 -11.65 0.194 26.85 0.15 10.76 37.76 53.84 -16.08 0.595 26.45 0.29 10.77 37.51 46.00 -8.49 0.637 33.84 0.30 10.77 44.91 56.00 -11.09 0.641 28.00 0.31 10.77 39.08 46.00 -6.92 1.289 22.44 0.26 10.90 33.60 46.00 -12.40 1.411 32.50 0.26 10.91 43.67 56.00 -12.33 2.721 22.39 0.30 10.93 33.62 46.00 -12.38 2.765 36.98 0.30 10.93 48.21 56.00 -7.79

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 Radiated Ellission										
Test Requirement:	FCC Part 15 B S	FCC Part 15 B Section 15.109								
Test Method:	ANSI C63.4:201	14								
Test Frequency Range:	30MHz to 26000	OMHz								
Test site:	Measurement D	istance:	3m (Se	mi-Anechoi	c Char	nber)				
Receiver setup:	Frequency	Dete	ctor	RBW	VB\		Remark			
	30MHz-1GHz	Quasi-		120kHz	300k		Quasi-peak Value			
	Above 1GHz	Pea RM		1MHz	3MF 3MF		Peak Value			
Limit:	Frequenc			1MHz (dBuV/m @		7 <u>Z</u>	Average Value Remark			
Littiit.	30MHz-88M		LIIIII	40.0	<i>5</i> 3111 <i>)</i>	(Quasi-peak Value			
	88MHz-216N			43.5			Quasi-peak Value			
	216MHz-960			46.0			Quasi-peak Value			
	960MHz-1G			54.0			Quasi-peak Value			
				54.0			Average Value			
	Above 1GI	72		74.0			Peak Value			
Test setup:	Below 1GHz Antenna Tower									
	Search Antenna RF Test Receiver Turn 0.8m lm Table 0.8m lm Ground Plane									
	Above 1GHz									
	NAMAN A SOCIAL PROPERTY OF THE	E EUT	Horn Antenna Tower 3m							





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.							
	2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.							
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.							
	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 limit specified, then testing could be stopped and the pea EUT would be reported. Otherwise the emissions that did margin would be re-tested one by one using peak, quasi-average method as specified and then reported in a data							
Test environment:	Temp.:	25 °C	Humid.:	55%	Press.:	1 01kPa		
Test Instruments:	Refer to se	ection 5.7 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							

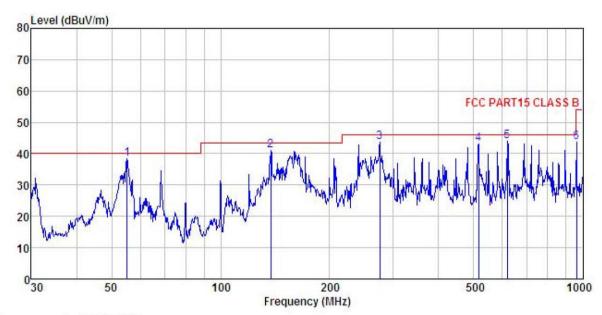




Measurement Data:

Below 1GHz

Horizontal:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M3G) HORIZONTAL Condition

: 3G smartphone EUT Model : A26062K
Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

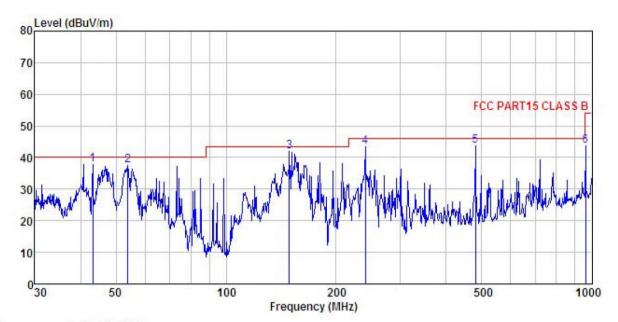
Test Engineer: Zora

	Freq		Antenna Factor						
_	MHz	dBu∜	dB/m		<u>ab</u>	$\overline{dBuV/m}$	dBu√/m	<u>dB</u>	
1	55.221	54.22	12.65	1.36	29.80	38.43	40.00	-1.57	QP
2	137.420	56.20	11.88	2.37	29.29	41.16	43.50	-2.34	QP
2	275.157	57.11	12.15	2.87	28.49	43.64	46.00	-2.36	QP
4	515.437	51.25	17.23	3.70	29.00	43.18	46.00	-2.82	QP
5 6	618.537	50.40	18.61	3.91	28.88	44.04	46.00	-1.96	QP
6	962.162	44.87	22.25	4.27	27.65	43.74	54.00	-10.26	QP





Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M3G) VERTICAL : 3G smartphone Condition

EUT Model : A26062K
Test mode : PC Mode
Power Rating : AC 120V/60Hz

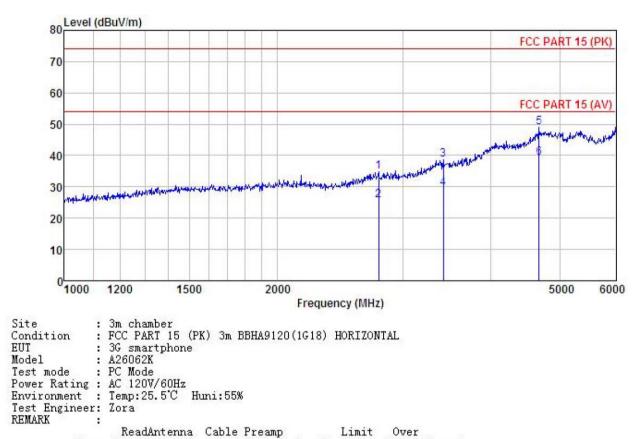
Environment : Temp: 25.5°C Huni: 55% Test Engineer: Zora REMARK :

типпи		D.J	A-+	Cabla	Decem		Limit	0	
	Freq		Antenna Factor					Over Limit	
<u> </u>	MHz	dBuV	$-\overline{dB}/\overline{m}$	<u>d</u> B	<u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1	43, 202	48.98	17.44	1.26	29.87	37.81	40.00	-2.19	QP
2	53.882	52.87	13.22	1.34	29.80	37.63	40.00	-2.37	QP
2 3 4 5	148.963	57.83	10.77	2.51	29.23	41.88	43.50	-1.62	QP
4	239.987	57.49	11.80	2.82	28.59	43.52	46.00	-2.48	QP
5	480.528	52.66	16.57	3.46	28.92	43.77	46.00	-2.23	QP
6	962.162	44.89	22.25	4.27	27.65	43.76	54.00	-10.24	QP



Above 1GHz

Horizontal:

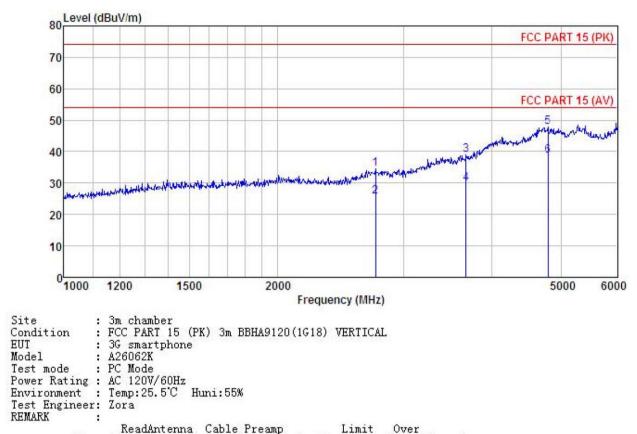


	•								
	Freq		Antenna Factor				Limit Line	Over Limit	
-	MHz	dBu₹	dB/m	dB	<u>d</u> B	$\overline{dBuV/m}$	dBuV/m		
1	2776.810	46.58	24.79	5.11	41.69	34.79	74.00	-39.21	Peak
2	2776.810	37.58	24.79	5.11	41.69	25.79	54.00	-28.21	Average
3	3424.443	46.98	27.51	5.66	41.38	38.77	74.00	-35.23	Peak
4	3424.443	37.83	27.51	5.66	41.38	29.62	54.00	-24.38	Average
5	4677.225	48.62	35.41	6.86	42.01	48.88	74.00	-25.12	Peak
6	4677, 225	39, 11	35, 41	6.86	42.01	39.37	54,00	-14.63	Average





Vertical:



THUM									
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
-	MHz	dBu∇	<u>dB</u> /m	d <u>B</u>	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1	2742.200	46.61	24.67	5.08	41.72	34.64	74.00	-39.36	Peak
2	2742.200	37.58	24.67	5.08	41.72	25.61	54.00	-28.39	Average
3	3678.883	44.99	29.52	5.97	41.65			-35.17	
4	3678.883	36.08	29.52	5.97	41.65	29.92	54.00	-24.08	Average
	4796.035	46.87	35.93	6.81	41.83	47.78	74.00	-26.22	Peak
6	4796.035	37.76	35.93	6.81	41.83	38.67	54.00	-15.33	Average