Report No: CCISE181114705

FCC REPORT

Applicant: Interglobe Connection Corp

Address of Applicant: 8228 NW 30th Terrace. Doral, Miami, FL 33122

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: EKO Star 4.0 G40

Trade mark: EKO

FCC ID: 2AC7IEKONG40

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 30 Nov., 2018

Date of Test: 30 Nov., to 30 Dec., 2018

Date of report issued: 31 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	31 Dec., 2018	Original

Tested by: Mike OU Date: 31 Dec., 2018

Test Engineer

Reviewed by: Date: 31 Dec., 2018

Project Engineer





3 Contents

			Page
1	C	OVER PAGE	1
2	V	ERSION	2
3	C	ONTENTS	3
4		EST SUMMARY	
5		ENERAL INFORMATION	
	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	DESCRIPTION OF SUPPORT UNITS	6
	5.6	RELATED SUBMITTAL(S) / GRANT (S)	6
	5.7	DESCRIPTION OF CABLE USED	6
	5.8	LABORATORY FACILITY	
	5.9	LABORATORY LOCATION	
	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		IIT 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:	pplicant: Interglobe Connection Corp	
Address:	8228 NW 30th Terrace. Doral, Miami, FL 33122	
Manufacturer/Factory:	INTERGLOBE CONNECTION LTD	
Address:	RM 1101 11F SAN TOI BLDG 139 CONNAUGHT RD CENTRAL HK	

Report No: CCISE181114705

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	EKO Star 4.0 G40
Power supply:	Rechargeable Li-ion Battery DC3.8V/1400mAh
AC adapter :	Model: Ara 5.7 B5719 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)	±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

Page 5 of 18

Report No: CCISE181114705

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
Detached headset cable	Unshielded	1.2m	EUT	Headset

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

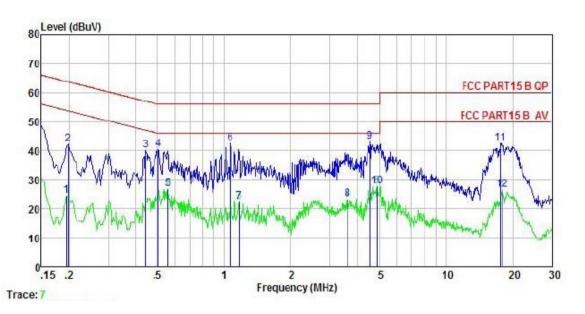
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10)7			
Test Method:	ANSI C63.4:2014				
Test Frequency Range:	150kHz to 30MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9kHz, VBW=30kHz				
Limit:	Limit (dBuV)				
	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 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 are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 500hm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm 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.: 22.5 °C Humid.: 55% Press.: 101kPa				
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				
. 001 10001101	1 466				



Measurement data:

Product name:	Mobile Phone	Product model:	EKO Star 4.0 G40
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%



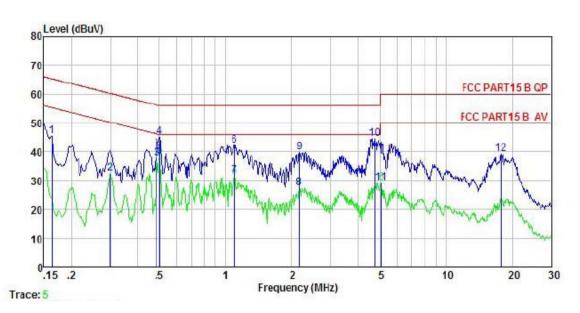
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
_	MHz	₫₿u₹		₫B	√dBu⊽	dBu∜	<u>ab</u>	
1	0.194	13.52	0.15	10.76	24.43	53.84	-29.41	Average
2	0.198	31.17	0.15	10.76	42.08	63.71	-21.63	QP
3	0.442	29.43	0.12	10.74	40.29	57.02	-16.73	QP
1 2 3 4 5 6 7 8	0.505	29.44	0.12	10.76	40.32	56.00	-15.68	QP
5	0.555	16.01	0.12	10.76	26.89	46.00	-19.11	Average
6	1.065	31.57	0.13	10.88	42.58	56.00	-13.42	QP
7	1.166	11.45	0.13	10.89	22.47	46.00	-23.53	Average
8	3.603	12.32	0.17	10.90	23.39	46.00	-22.61	Average
9	4.549	32.07	0.20	10.87	43.14	56.00	-12.86	QP
10	4.874	16.84	0.20	10.85	27.89	46.00	-18.11	Average
11	17.568	31.43	0.29	10.92	42.64	60.00	-17.36	QP
12	17.849	15.36	0.29	10.92	26.57	50.00	-23.43	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:	Mobile Phone	Product model:	EKO Star 4.0 G40
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	₫₿u₹		<u>dB</u>	—dBu⊽	dBu∀	<u>ab</u>	
1 2 3 4 5 6 7 8 9	0.162 0.299	33.83 20.87	0.97 0.97	10.77 10.74	45.57 32.58		-19.77 -17.70	QP Average
3	0.486	26.02	0.97	10.76	37.75	46.23	-8.48	Average
4	0.502 0.502	33.42 26.99	0.97 0.97	10.76 10.76	45.15 38.72		-10.85	QP Average
6	1.100	30.31	0.97	10.88	42.16		-13, 84	
7	1.100	19.64	0.97	10.88	31.49	46.00	-14.51	Average
8	2.155	15.51	0.98	10.95	27.44			Average
9	2.167	2B. 03	0.98	10.95	39.96	56, 00	-16.04	QP
10	4.746	32.83	1.01	10.86	44.70		-11.30	
11	5.085	17.47	1.01	10.85	29.33	50.00	-20.67	Average
12	17.755	27. 52	0.78	10.92	39.22		-20.78	

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	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	W	Remark	
·	30MHz-1GHz	Quasi-		120kHz	300k		Quasi-peak Value	
	Above 1GHz	Pea		1MHz	3MI		Peak Value	
1 * */	Frequenc	RM		1MHz (dBuV/m @	3MF	HZ I	Average Value Remark	
Limit:	30MHz-88M	•	LIIIII	40.0	23III)	(Quasi-peak Value	
	88MHz-216N			43.5			Quasi-peak Value	
						Quasi-peak Value		
				54.0				
	Above 1GI	J-7		54.0			Average Value	
	Above 1GI	12		74.0			Peak Value	
Test setup:	960MHz-1GHz 54.0 Quasi-peak Value Above 1GHz 54.0 Average Value							





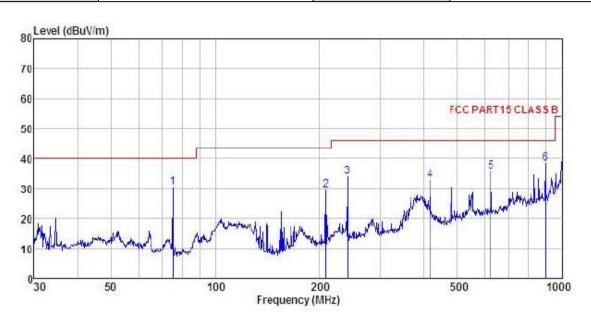
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.							
	2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.							
	ground	to determine tal and vertica	a height is varied from one meter to four meters above the etermine the maximum value of the field strength. Both and vertical polarizations of the antenna are set to make the ont.					
	and the	or 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 determine 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 environment:	Temp.:	24 °C	Humid.:	57%	Press.:	1 01kPa		
Test Instruments:	Refer to se	ection 5.9 for	details					
Test mode:	Refer to section 5.3 for details							
Test results:	Passed							
Remark:	All of the o	All of the observed value above 6GHz ware the niose floor , which were no recorded						



Measurement Data:

Below 1GHz:

Product Name:	Mobile Phone	Product model:	EKO Star 4.0 G40
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%



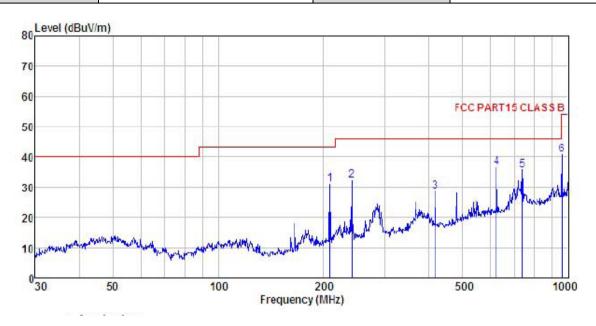
		Cable	Cable Preamp			Limit Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	dBu7		dB	<u>ab</u>	dBu√/m	dBuV/m	<u>q</u> g	
1	75.446	49.95	8.54	1.63	29.68	30, 44	40.00	-9.56	QF
2	207.850	43.65	11.81	2.86	28.78	29.54	43.50	-13.96	QP
3	239.987	46.61	12.97	2.82	28.59	33.81	46.00	-12.19	QF
4	416.179	42.63	15.70	3.12	28.81	32.64	46.00	-13.36	QF
4 5 6	625.078	41.18	19.51	3.90	28.86	35, 73	46.00	-10.27	QF
6	896.997	40.23	22. 24	3.74	27.89	38. 32	46.00	-7.68	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:	Mobile Phone	Product model:	EKO Star 4.0 G40
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%



		Read	Antenna	Cable	Preamp		Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
-	MHz	dBu₹	<u>dB/m</u>	dB	<u>dB</u>	dBu√/m	$\overline{dBuV/m}$	<u>d</u> B	
1	207.850	45.06	11.81	2.86	28.78	30.95	43.50	-12.55	QF
1 2 3 4 5	239.987	45.09	12.97	2.82	28.59	32.29	46.00	-13.71	QP
3	416.179	38.58	15.70	3.12	28.81	28.59	46.00	-17.41	QF
4	625.078	42.04	19.51	3.90	28.86	36, 59	46.00	-9.41	QF
5	T39.661	39.14	20.76	4.32	28.52	35, 70	46.00	-10.30	QF
6	962.162	41.55	22.50	4.27	27.65	40.67	54.00	-13.33	QF

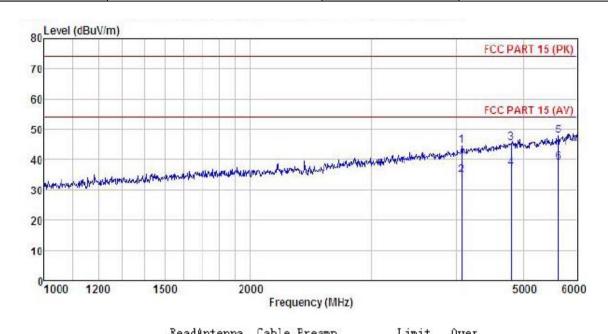
Remark:

- 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:	Mobile Phone	Product model:	EKO Star 4.0 G40
Test By:	Mike	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



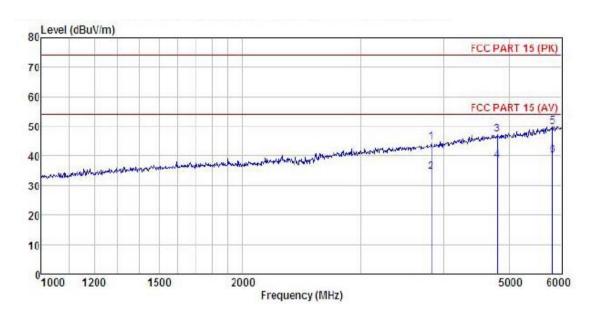
	Freq		Factor				Limit		Remark
	MHz	—dBu7		āB	<u>dB</u>	dBu∛/m	dBuV/m	<u>q</u> g	
1	4067.389	47.50	30.33	6.20	41.81	44.44	74.00	-29.56	Peak
2	4067.389	37.86	30.33	6.20	41.81	34.80	54.00	-19.20	Average
3	4808.328	46.54	31.60			45.57			
4	4808.328	3B. 15	31.60	6.80	41.81	37.18	54.00	-16.82	Average
5	5629.205	46.80	32.64	7.40	41.83	47.70	74.00	-26.30	Peak
6	5629.205	37.96	32.64	7.40	41.83	38.86	54.00	-15.14	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:	Mobile Phone	Product model:	EKO Star 4.0 G40		
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		Cable Preamp Loss Factor		Limit Line	Over Limit	Remark
	MHz	dBu7	<u>dB</u> /m	dB	<u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>d</u> B	
1	3829.285	48.17	29.78	6.09	41.79	44.45	74.00	-29.55	Peak
2	3829.285	3B. 25	29.78	6.09	41.79	34.53	54.00	-19.47	Average
3	4808.328	48.16	31.60	6.80	41.81	47.19	74.00	-26.81	Peak
4	4808.328	39.37	31.60	6.80	41.81	38, 40	54.00	-15.60	Average
5	5818.536	48.28	32.98	7.89	42.02		74.00		
6	5818.536	38.40	32.98	7.89	42.02	40.00	54.00	-14.00	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.