

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 5.5 G55

Trade mark: EKO

FCC ID: 2AC7IEKONG55

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 30 Nov., 2018

Date of Test: 30 Nov., to 21 Dec., 2018

Date of report issued: 24 Dec., 2018

Test Result: PASS *

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

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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2 Version

Version No.	Date	Description
00	24 Dec., 2018	Original

Tested by:

Carey Chen

Test Engineer

Date:

24 Dec., 2018

Reviewed by:

Wimer Zhang

Project Engineer

Date:

24 Dec., 2018

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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
<i>Remark:</i> <i>Pass: The EUT complies with the essential requirements in the standard.</i> <i>N/A: The EUT not applicable of the test item.</i>		

5 General Information

5.1 Client Information

Applicant:	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

5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	EKO Star 5.5 G55
Power supply:	Rechargeable Li-ion Battery DC3.85V-2920mAh
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)

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

N/A

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>

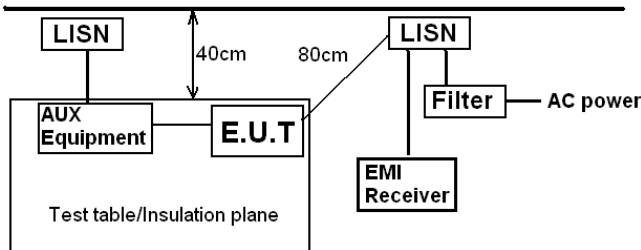
5.10 Test Instruments list

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	Version: 6.110919b		
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		

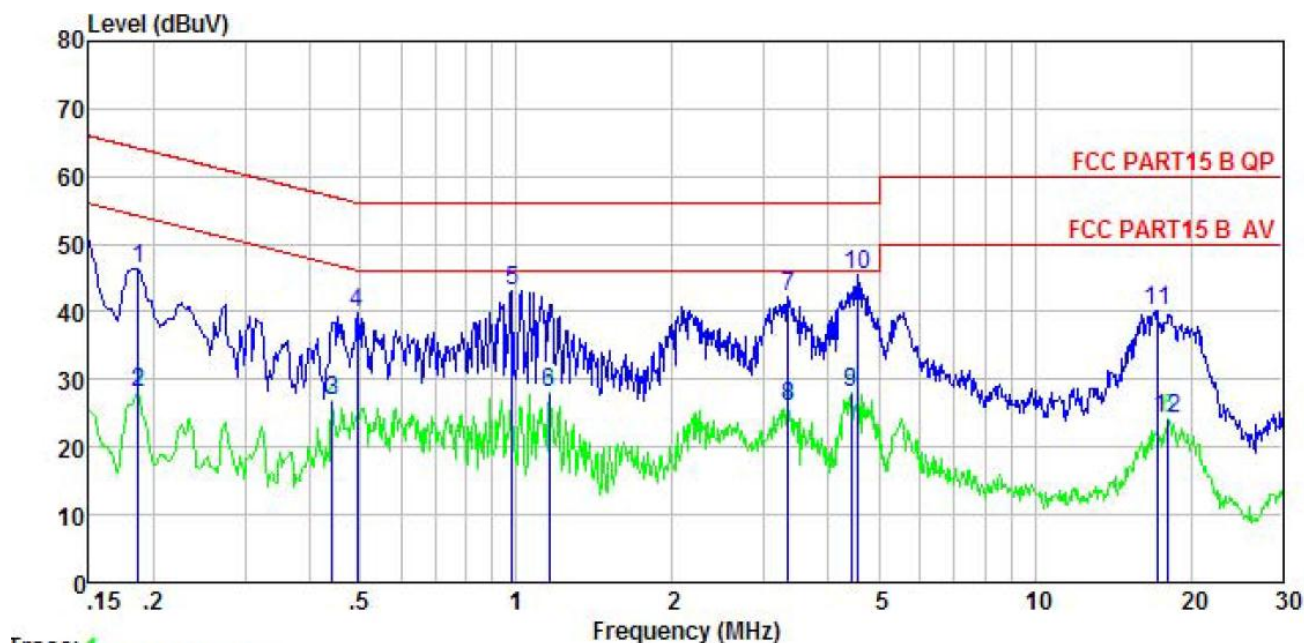
6 Test results and Measurement Data

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						
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  Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m						
Test procedure	1. 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. 2. 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). 3. 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						

Measurement data:

Product name:	Mobile Phone	Product model:	EKO Star 5.5 G55
Test by:	Carey	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Humi: 55%



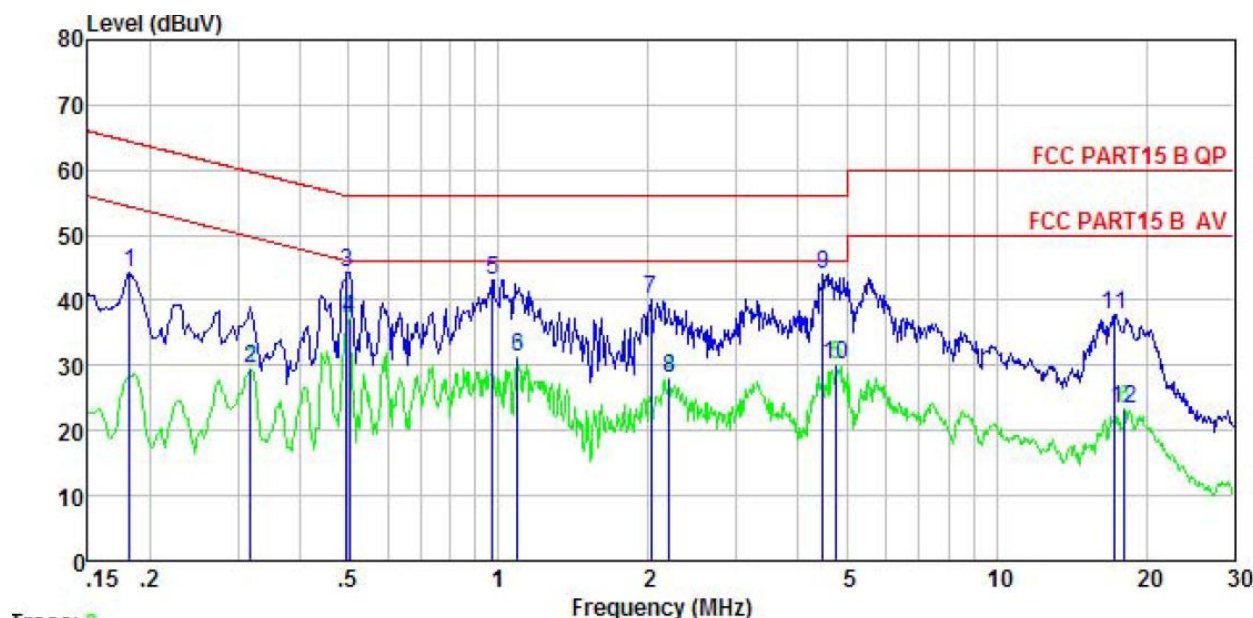
Trace: 4

	Freq	Read	LISN	Cable	Level	Limit	Over	
	MHz	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.186	34.82	0.73	10.76	46.31	64.20	-17.89	QP
2	0.186	16.69	0.73	10.76	28.18	54.20	-26.02	Average
3	0.442	15.33	0.75	10.74	26.82	47.02	-20.20	Average
4	0.494	28.44	0.76	10.76	39.96	56.10	-16.14	QP
5	0.984	31.58	0.78	10.87	43.23	56.00	-12.77	QP
6	1.160	16.40	0.78	10.89	28.07	46.00	-17.93	Average
7	3.346	30.48	0.77	10.91	42.16	56.00	-13.84	QP
8	3.346	14.19	0.77	10.91	25.87	46.00	-20.13	Average
9	4.430	16.41	0.76	10.87	28.04	46.00	-17.96	Average
10	4.549	33.92	0.76	10.87	45.55	56.00	-10.45	QP
11	17.199	28.62	0.70	10.91	40.23	60.00	-19.77	QP
12	18.039	12.62	0.70	10.92	24.24	50.00	-25.76	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 5.5 G55
Test by:	Carey	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Humi: 55%

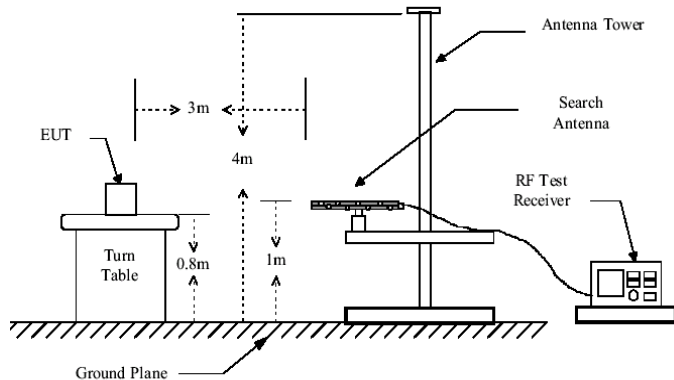
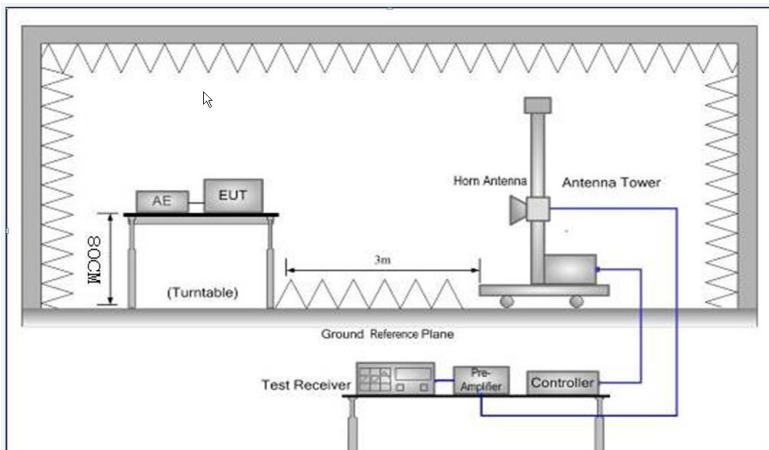


	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.182	32.80	0.66	10.77	44.23	64.42	-20.19	QP
2	0.318	18.21	0.64	10.74	29.59	49.75	-20.16	Average
3	0.497	33.05	0.61	10.76	44.42	56.05	-11.63	QP
4	0.502	25.93	0.61	10.76	37.30	46.00	-8.70	Average
5	0.974	31.62	0.67	10.86	43.15	56.00	-12.85	QP
6	1.094	19.63	0.67	10.88	31.18	46.00	-14.82	Average
7	2.023	28.39	0.67	10.96	40.02	56.00	-15.98	QP
8	2.201	16.56	0.67	10.95	28.18	46.00	-17.82	Average
9	4.478	32.52	0.69	10.87	44.08	56.00	-11.92	QP
10	4.772	18.57	0.70	10.86	30.13	46.00	-15.87	Average
11	17.199	26.12	0.69	10.91	37.72	60.00	-22.28	QP
12	18.039	11.75	0.69	10.92	23.36	50.00	-26.64	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

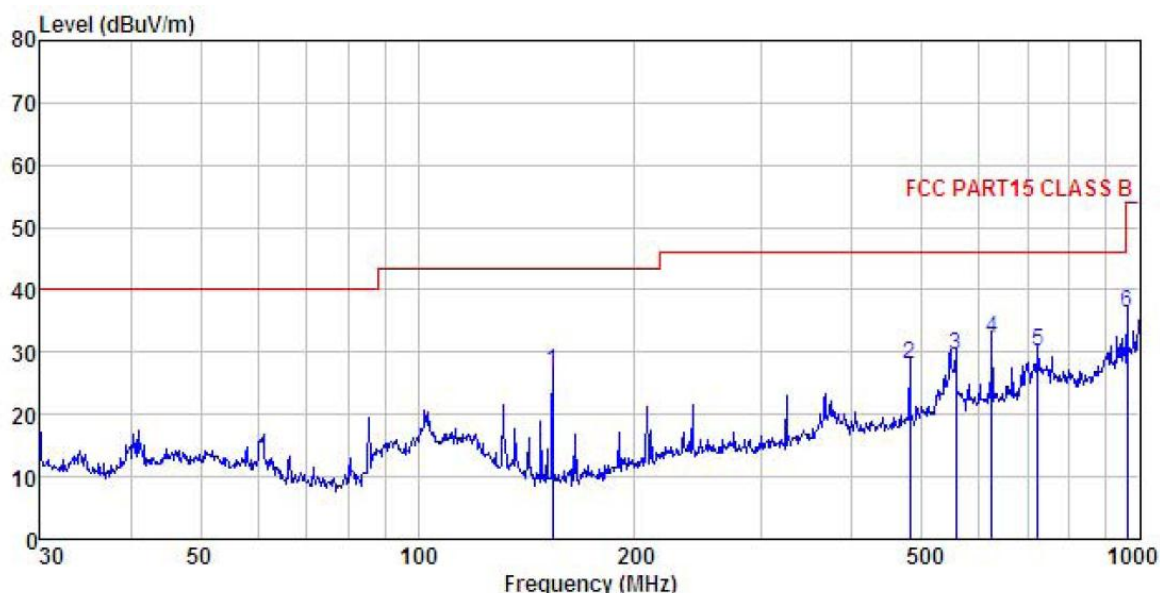
Test Requirement:	FCC Part 15 B Section 15.109				
Test Method:	ANSI C63.4:2014				
Test Frequency Range:	30MHz to 6000MHz				
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		54.0		Average Value
			74.0		Peak Value
Test setup:	Below 1GHz				
					
Test setup:	Above 1GHz				
					

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 chamber. 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. 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 section 5.9 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					
Remark:	All of the observed value above 6GHz were the noise floor , which were no recorded					

Measurement Data:

Below 1GHz:

Product Name:	Mobile Phone	Product Model:	EKO Star 5.5 G55
Test By:	Carey	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%

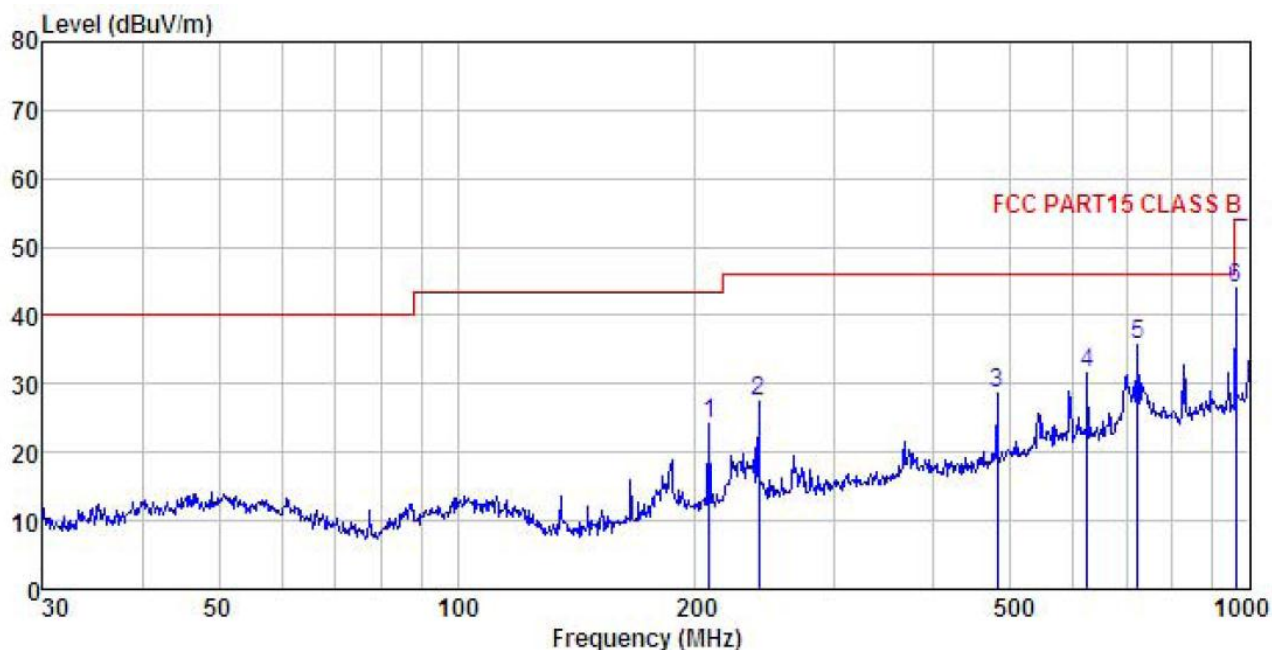


	Freq	ReadAntenna	Cable Preamp	Limit	Over				
	Level	Factor	Loss	Factor	Level	Limit			
	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m			
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m			
1	153.739	44.70	8.79	2.54	29.19	26.84	43.50	-16.66	QP
2	480.528	36.67	16.97	3.46	28.92	28.18	46.00	-17.82	QP
3	556.774	36.40	18.17	3.90	29.08	29.39	46.00	-16.61	QP
4	625.078	37.77	19.51	3.90	28.86	32.32	46.00	-13.68	QP
5	724.261	34.06	20.39	4.27	28.58	30.14	46.00	-15.86	QP
6	962.162	37.13	22.50	4.27	27.65	36.25	54.00	-17.75	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 5.5 G55
Test By:	Carey	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%



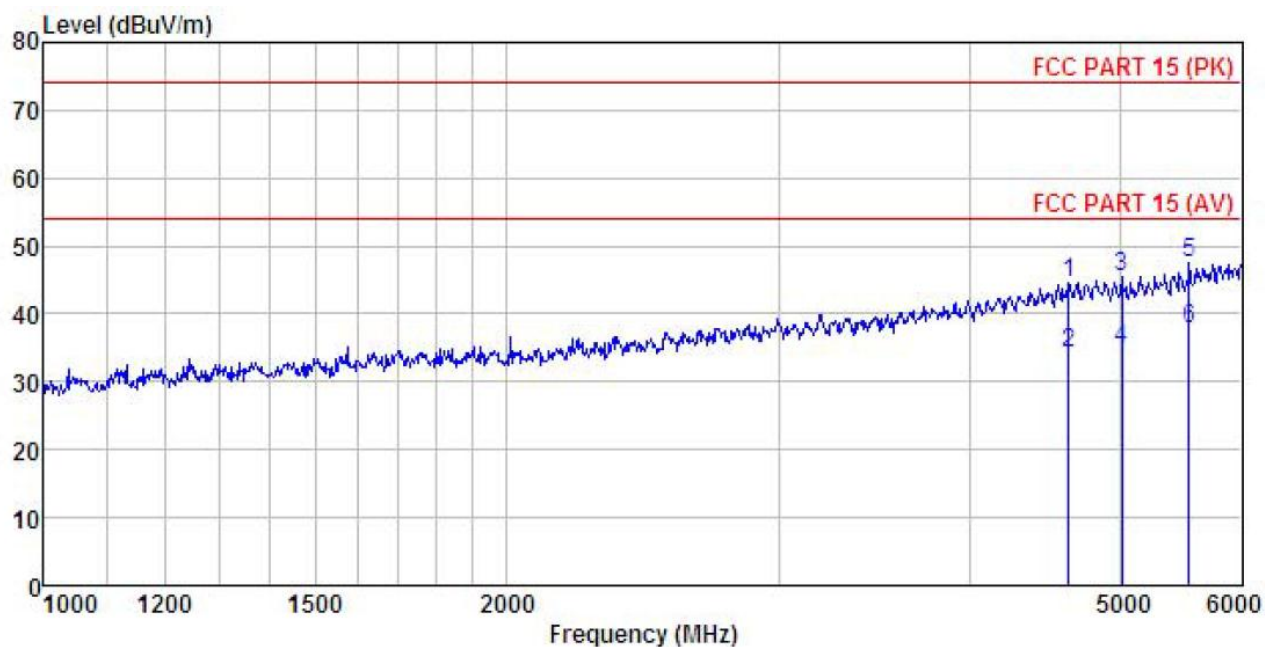
	Freq	ReadAntenna	Cable Preamp	Limit	Over	
	MHz	Level	Factor	Loss	Factor	Level
		dBuV	dB/m	dB	dB	dBuV/m
						dBuV/m
						dB
1	207.850	38.37	11.81	2.86	28.78	24.26
2	239.987	40.27	12.97	2.82	28.59	27.47
3	480.528	37.06	16.97	3.46	28.92	28.57
4	625.078	36.97	19.51	3.90	28.86	31.52
5	724.261	39.70	20.39	4.27	28.58	35.78
6	962.162	44.77	22.50	4.27	27.65	43.89

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 5.5 G55
Test By:	Carey	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Humi: 57%

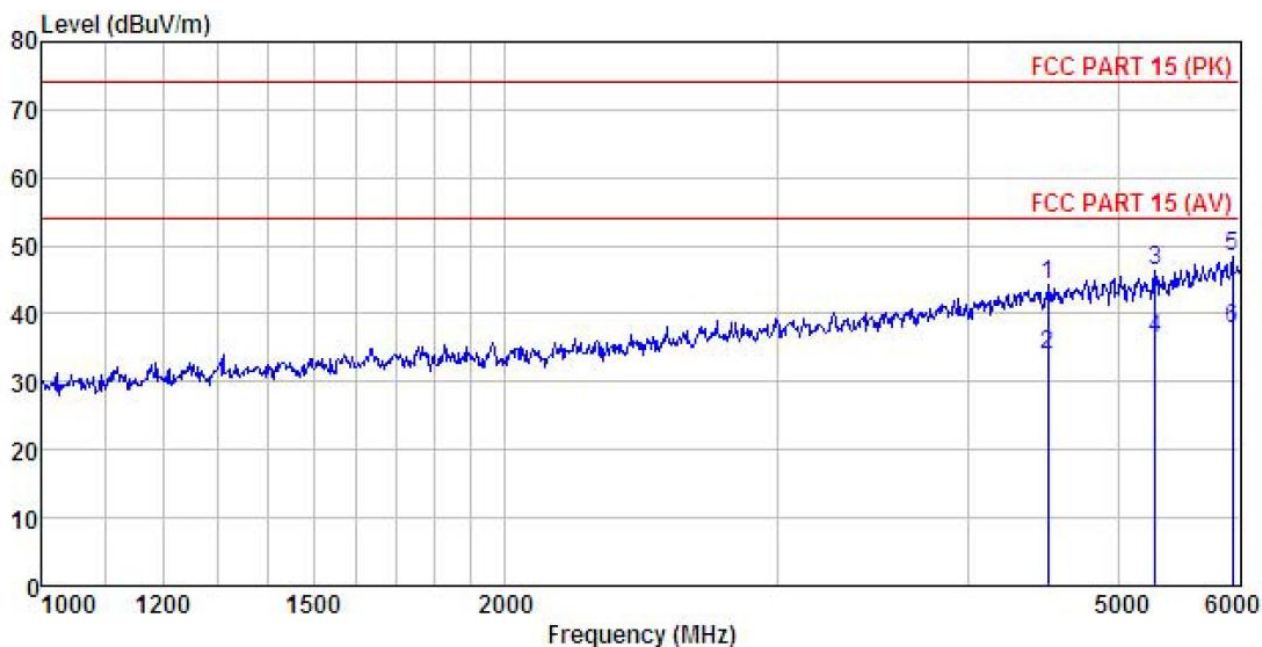


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4635.509	45.90	31.33	6.88	42.07	44.44	74.00	-29.56	Peak
2	4635.509	35.57	31.33	6.88	42.07	34.11	54.00	-19.89	Average
3	5015.753	45.95	31.92	6.95	41.89	45.43	74.00	-28.57	Peak
4	5015.753	35.34	31.92	6.95	41.89	34.82	54.00	-19.18	Average
5	5545.141	47.04	32.48	7.26	41.81	47.63	74.00	-26.37	Peak
6	5545.141	37.30	32.48	7.26	41.81	37.89	54.00	-16.11	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 5.5 G55
Test By:	Carey	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%



	Freq	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	4504.505	45.94	31.11	6.81	42.06	44.16	74.00	-29.84	Peak
2	4504.505	35.87	31.11	6.81	42.06	34.09	54.00	-19.91	Average
3	5283.267	46.39	32.19	7.10	41.91	46.35	74.00	-27.65	Peak
4	5283.267	36.22	32.19	7.10	41.91	36.18	54.00	-17.82	Average
5	5935.842	46.68	33.19	7.92	42.04	48.52	74.00	-25.48	Peak
6	5935.842	36.05	33.19	7.92	42.04	37.89	54.00	-16.11	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.