

🥇 Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE181114704

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 C Section 15.247

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*

* 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	31 Dec., 2018	Original

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

Test Engineer

Reviewed by: Date: 31 Dec., 2018

Project Engineer



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4 Test Summary

Test Items	Section in CFR 47	Result
Antenna requirement	15.203 & 15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247 (d)	Pass
Spurious Emission	15.205 & 15.209	Pass

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

N/A: N/A: Not Applicable.



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 4.0 G40	
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))	
Channel numbers:	11 for 802.11b/802.11g/802.11(H20) 7 for 802.11n(H40)	
Channel separation:	5MHz	
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)	
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)	
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps	
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps	
Data speed (IEEE 802.11n):	Up to 150Mbps	
Antenna Type:	Internal Antenna	
Antenna gain:	-2.93 dBi	
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.	

Operation Fr	Operation Frequency each of channel for 802.11b/g/n(H20)						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

- 1. For 802.11n-HT40 mode, the channel number is from 3 to 9;
- Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel. Channel 3, 6 & 9 selected for 802.11n-HT40 as Lowest, Middle and Highest channel, Channel.

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 23118282 Fax: +86 (0) 755 23116366

Report No: CCISE181114704

5.3 Test environment and test mode

Operating Environment:			
Temperature:	24.0 °C		
Humidity:	54 % RH		
Atmospheric Pressure:	1010 mbar		
Test mode:	'		

Transmitting mode Keep the EUT in continuous transmitting with modulation

The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) 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.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

	*		
Per-scan all kind of data rate, the follow list were the worst case.			
Mode Data rate			
802.11b	1Mbps		
802.11g	6Mbps		
802.11n(H20)	6.5Mbps		
802.11n(H40)	13.5Mbps		

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 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)

5.6 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

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 23118282 Fax: +86 (0) 755 23116366





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

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

5.8 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		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		
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A		
Test Software	MWRFTEST	MTS8200	Version: 2.0.0.0				

Conducted Emission:					
Test Equipment	Manufacturer	Manufacturer Model No. Serial No.		Cal. Date	Cal. Due date
Tool Equipment	Mariaraotaro	model No.	oonan no.	(mm-dd-yy)	(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 Antenna requirement

Standard requirement:

FCC Part 15 C Section 15.203 /247(b)

15.203 requirement:

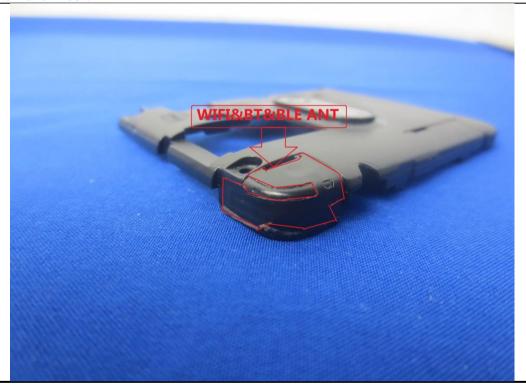
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

E.U.T Antenna:

The Wi-Fi antenna is an Inernal antenna which cannot replace by end-user, the best case gain of the antenna is -2.93 dBi.





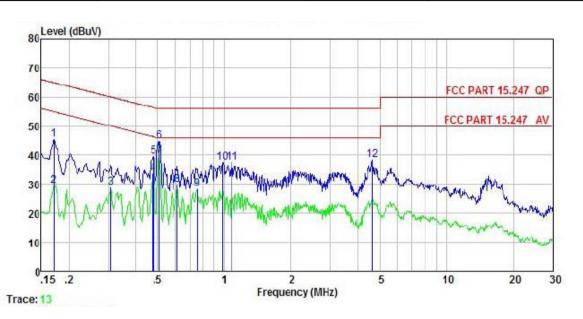
6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 1	5.207		
Test Method:	ANSI C63.10: 2013			
Test Frequency Range:	150 kHz to 30 MHz			
Class / Severity:	Class B			
Receiver setup:	RBW=9 kHz, VBW=30 kl	 Н7		
Limit:	Frequency range	Limit (dRu\/\	
Liffiit.	(MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the loga			
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides 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 refer 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 setup:	Reference Plane LISN 40cm 80cm Filter AC power Equipment E.U.T Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m			
Test Instruments:	Refer to section 5.8 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			



Measurement Data:

Product name:	Mobile Phone	Product model:	EKO Star 4.0 G40
Test by:	Mike	Test mode:	Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



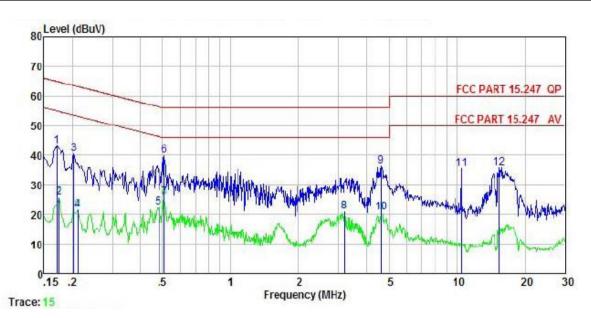
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	₫₿u₹		₫B	√dBu∀	dBu∀	<u>ab</u>	
1 2 3	0.170	34.42	0.17	10.77	45.36		-19.58	
2	0.170	1B.67	0.17	10.77	29.61	54.94	-25.33	Average
3	0.307	1B. 05	0.13	10.74	28.92	50.06	-21.14	Average
4	0.474	22.89	0.12	10.75	33.76	46, 45	-12.69	Average
5	0.479	28.59	0.12	10.75	39.46		-16.90	
6	0.510	33.99	0.12	10.76	44.87	56,00	-11.13	QP
7	0.510	28.97	0.12	10.76	39.85	46.00	-6.15	Average
4 5 6 7 8 9	0.614	18.77	0.13	10.77	29.67			Average
9	0.755	17.30	0.13	10.79	28.22			Average
10	0.979	26.55	0.13	10.86	37.54		-18.46	
11	1.077	26.61	0.13	10.88	37.62		-18.38	010521939
12	4.622	27.20	0.20	10.86	38.26		-17.74	7 (To 200)

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:	Wi-Fi Tx 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₹		——āB	₫₽u₹	dBu∀	<u>ab</u>	1. <u>2. cm (2. manta 10. m</u>
1	0.170	31.25	0.96	10.77	42.98	64.94	-21.96	QP
2	0.174	14.07	0.95	10.77	25.79	54.77	-28.98	Average
3	0.202	28.79	0.92	10.76	40.47	63.54	-23.07	QP
4 5	0.211	9.79	0.93	10.76	21.48	53.18	-31.70	Average
5	0.481	10.67	0.97	10.75	22.39	46.32	-23.93	Average
6	0.510	28.03	0.97	10.76	39.76	56.00	-16.24	QP
7	0.510	13.84	0.97	10.76	25.57	46.00	-20.43	Average
8	3.190	B. 94	0.99	10.91	20.84	46.00	-25.16	Average
9	4.622	24.43	1.00	10.86	36.29	56,00	-19.71	QP
10	4.647	B. 73	1.01	10.86	20.60	46.00	-25.40	Average
11	10.452	23.41	1.01	10.94	35.36	60.00	-24.64	QP
12	15.388	24.05	0.88	10.90	35.83	60.00	-24.17	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.



6.3 Conducted Output Power

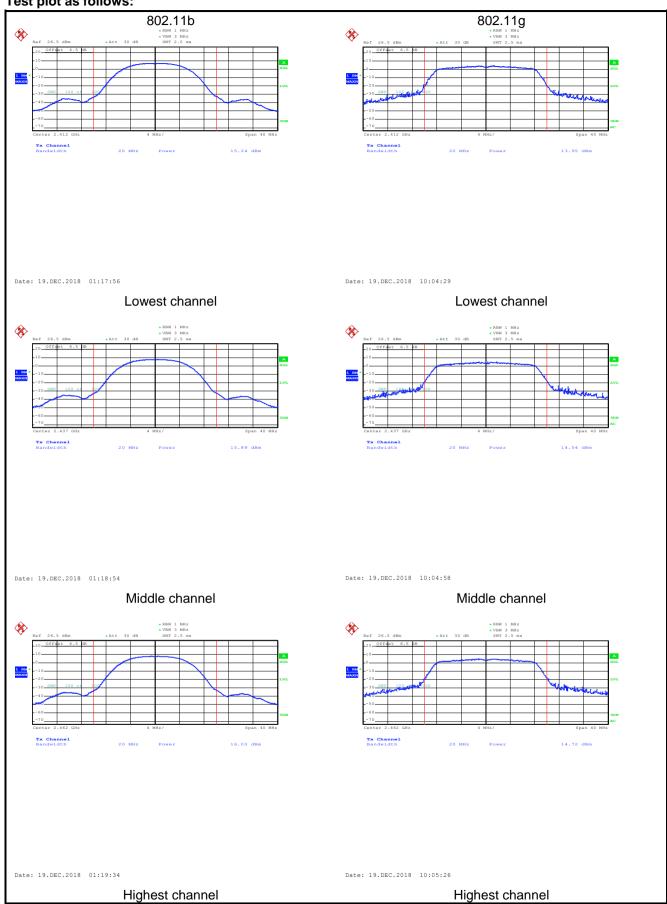
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)			
Test Method:	ANSI C63.10:2013 and KDB 558074			
Limit:	30dBm			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 5.8 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			

Measurement Data:

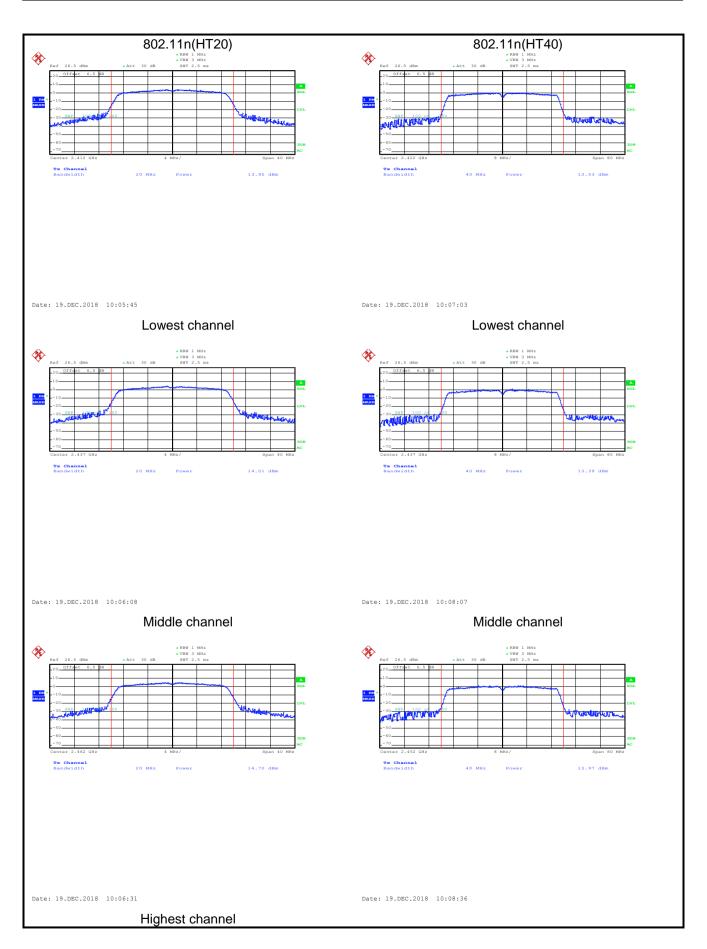
Toot CU	Max	Limit(dDm)	Result			
Test CH 802.11b		802.11g 802.11n(H20) 802.11n(H40)			Limit(dBm)	
Lowest	15.24	13.95	13.95	13.53		
Middle	15.89	14.54	14.01	13.39	30.00	Pass
Highest	16.03	14.72	14.70	13.97		



Test plot as follows:









6.4 Occupy Bandwidth

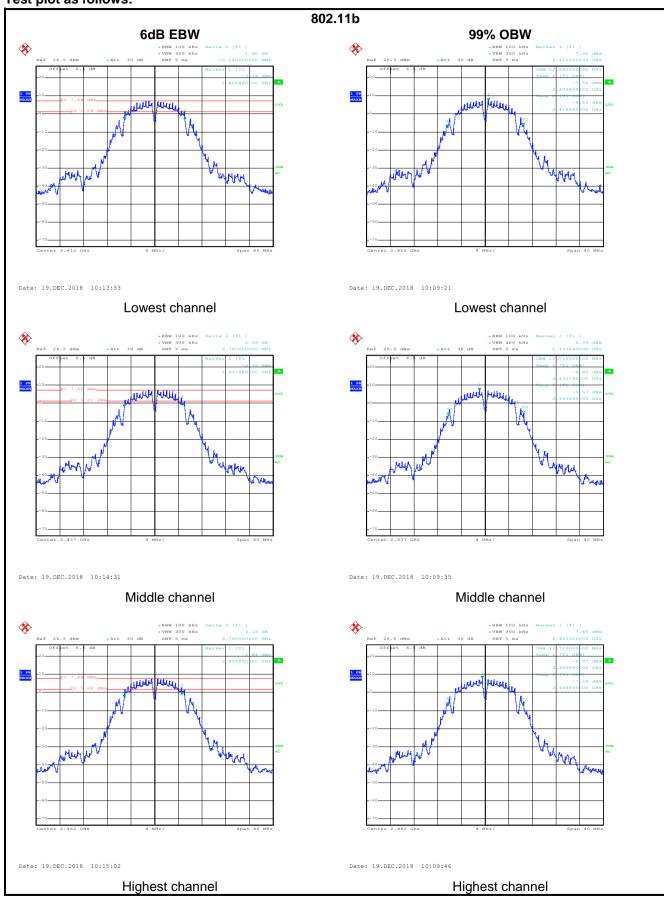
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)		
Test Method:	ANSI C63.10:2013 and KDB 558074		
Limit:	>500kHz		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.8 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

Measurement Data:

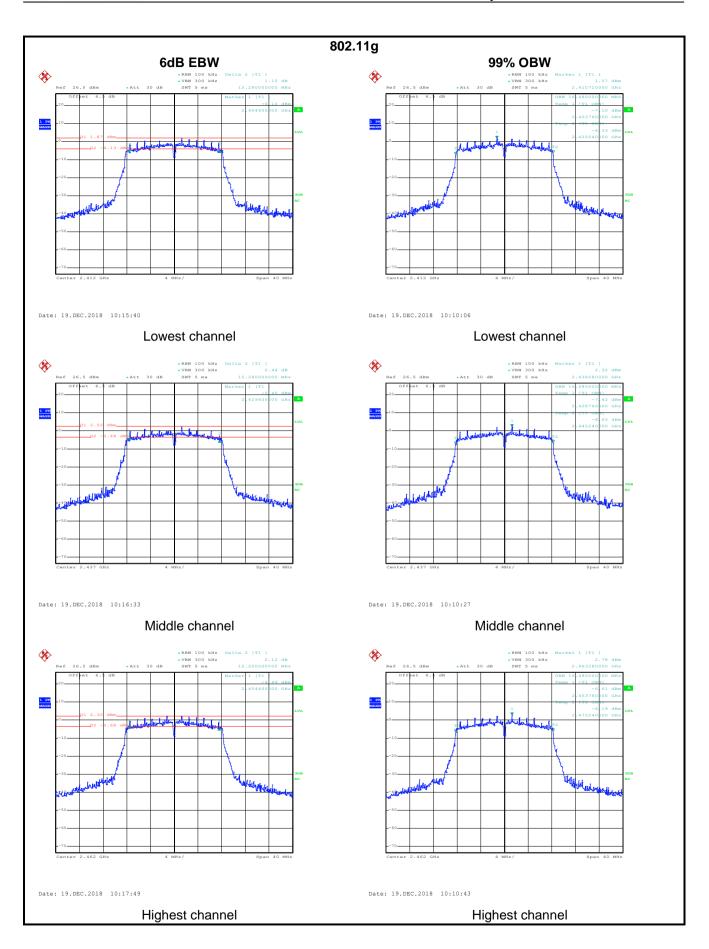
Test CH		6dB Emission B	Limit/kU=\	Result		
Test CH	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(kHz)	Result
Lowest	10.24	15.28	16.48	35.68		
Middle	9.76	15.28	15.36	35.84	>500	Pass
Highest	9.76	15.20	15.44	35.52		
Test CH	99% Occupy Bandwidth (MHz)				Limit/kU=\	Result
Test CH	802.11b	802.11g	802.11n(H20)	802.11n(H40)	Limit(kHz)	Veanir
Lowest	12.88	16.48	17.60	35.84		
Middle	12.76	16.48	17.60	35.84	N/A	N/A
Highest	12.76	16.48	17.60	35.84		



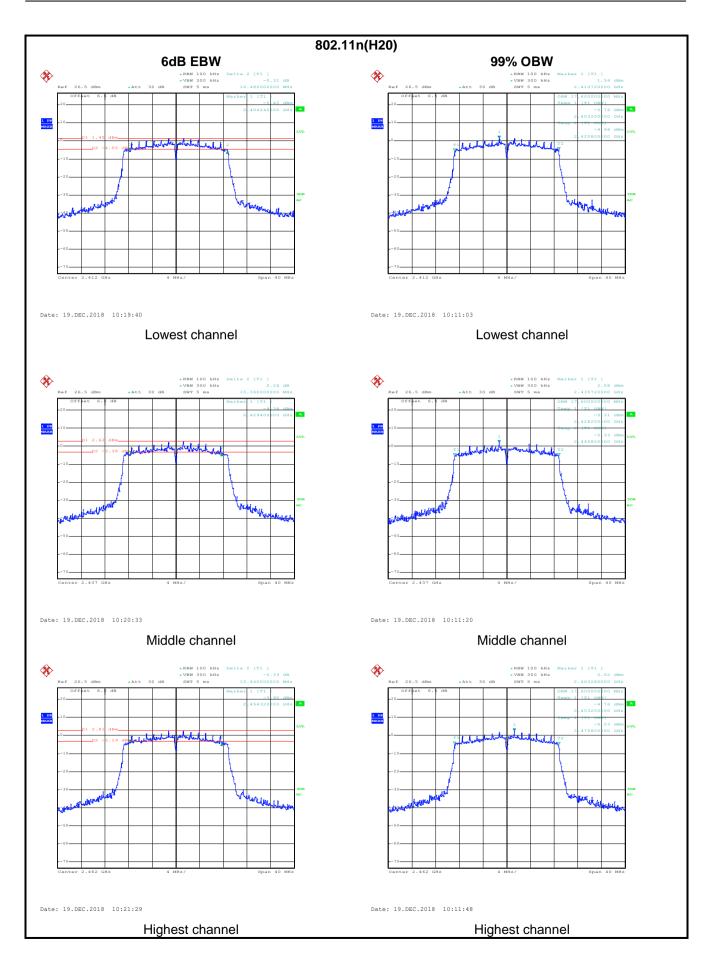
Test plot as follows:



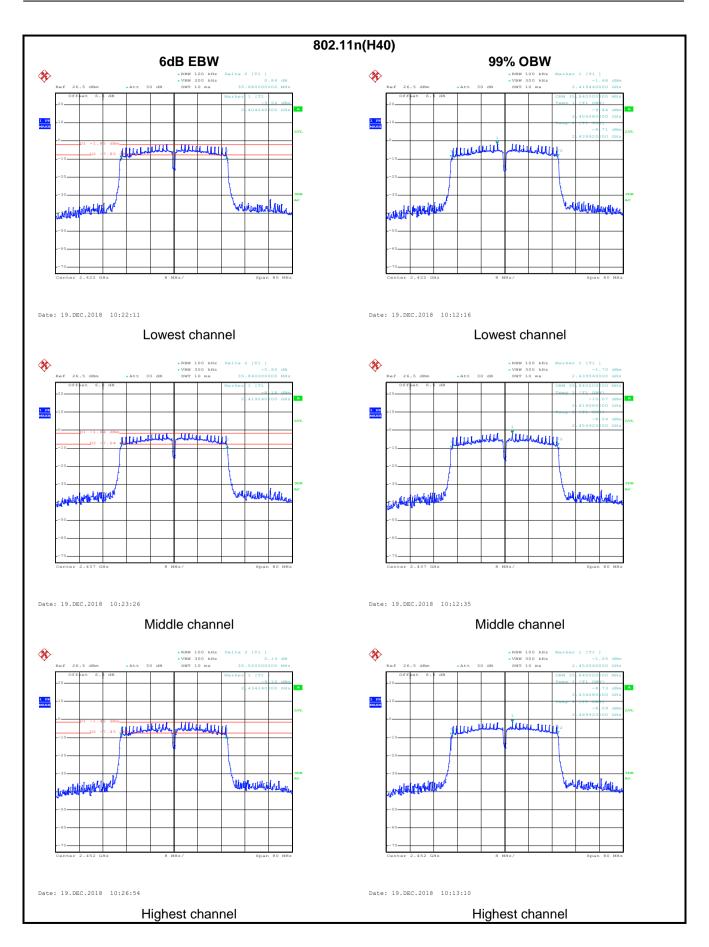














6.5 Power Spectral Density

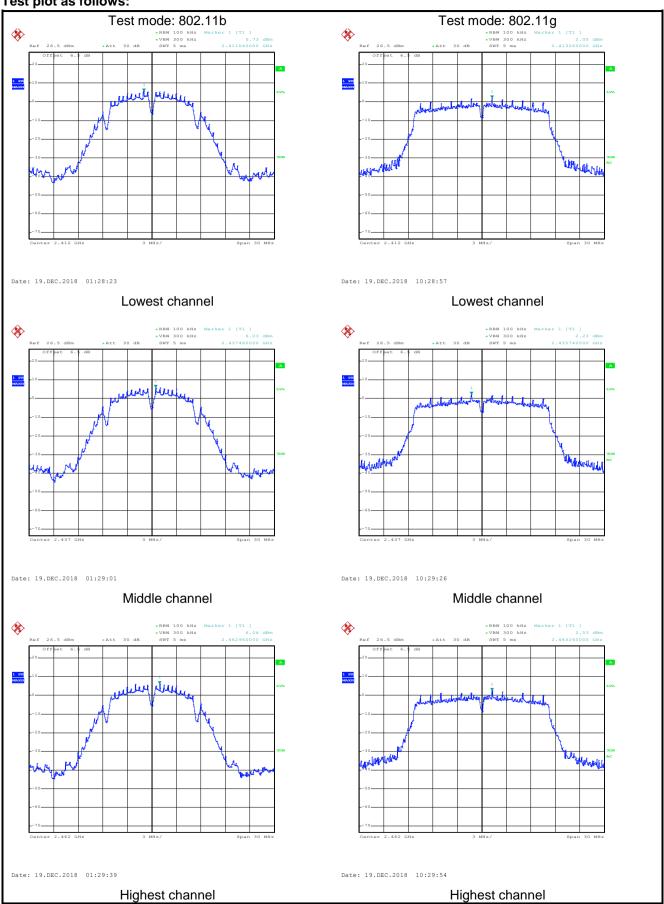
Test Requirement:	FCC Part 15 C Section 15.247 (e)		
Test Method:	ANSI C63.10:2013 and KDB 558074		
Limit:	8dBm		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.8 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

Measurement Data:

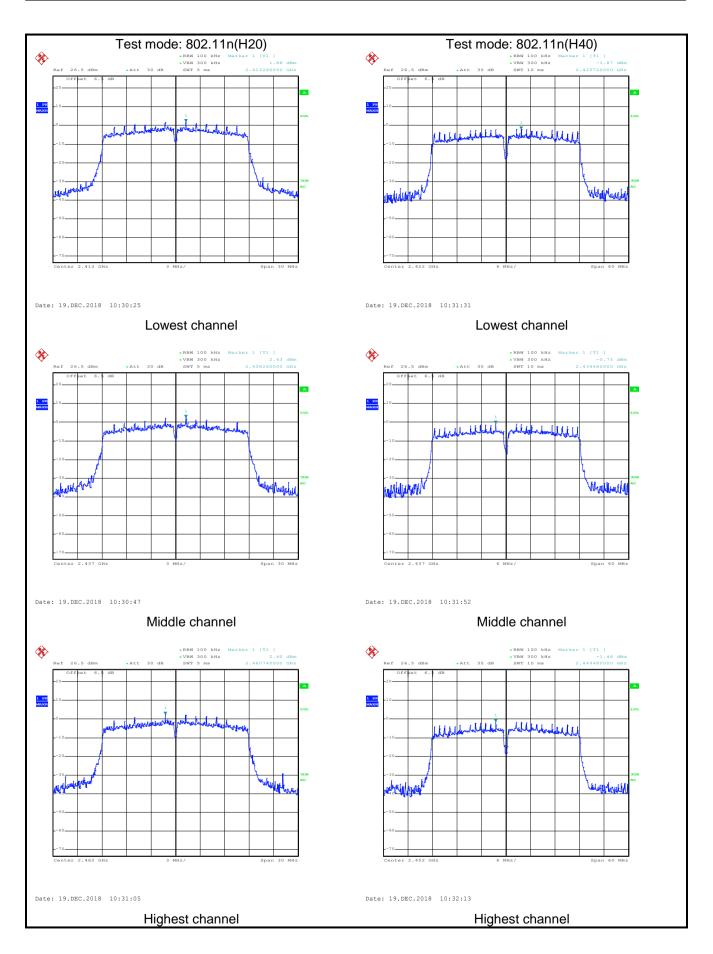
Toot CU		Limit(dDm)	Dooult				
Test CH 802.11b		802.11g	802.11n(H20) 802.11n(H40)		Limit(dBm)	Result	
Lowest	5.73	2.05	1.88	-1.87			
Middle	6.03	2.23	2.43	-0.75	8.00	Pass	
Highest	6.04	2.53	2.40	-1.46			



Test plot as follows:









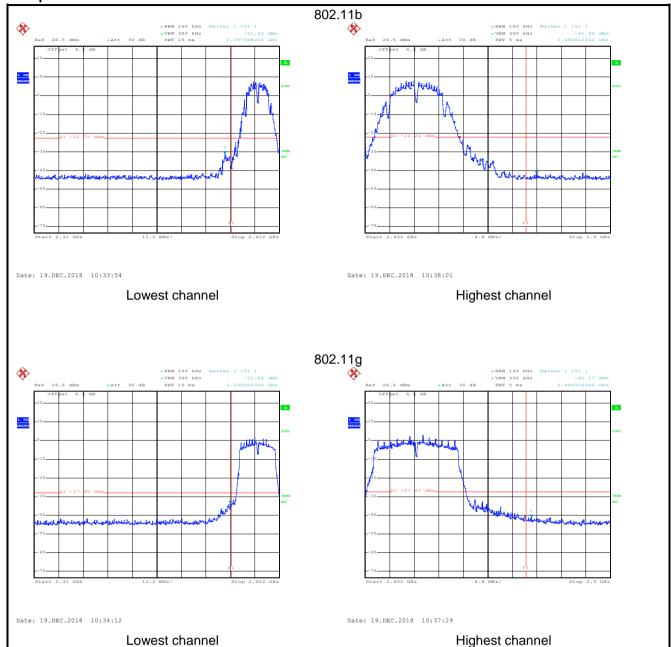
6.6 Band Edge

6.6.1 Conducted Emission Method

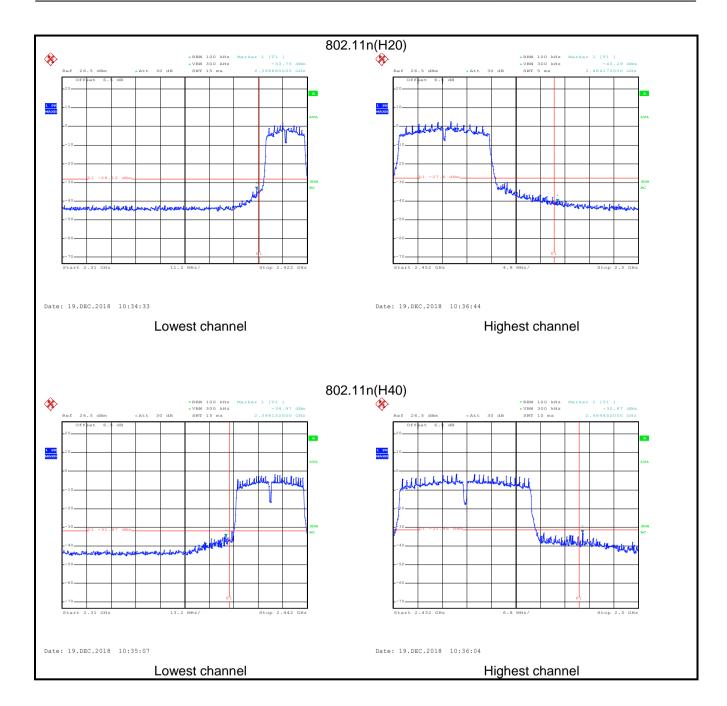
0.0.1 Oonducted Ennission				
Test Requirement:	FCC Part 15 C Section 15.247 (d)			
Test Method:	ANSI C63.10:2013 and KDB 558074			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 5.8 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Passed			



Test plot as follows:









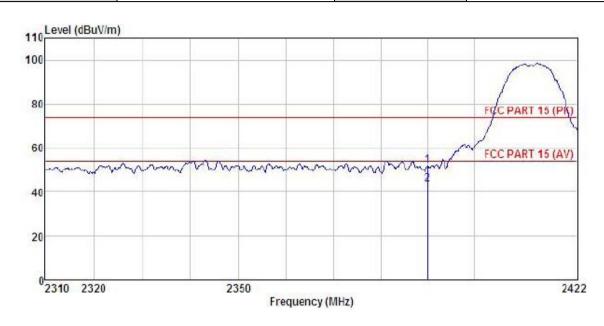
6.6.2 Radiated Emission Method

0.0.2	.2 Radiated Emission Wethod								
	Test Requirement:	FCC Part 15 C	Section 1	15.20	9 and 15.205				
	Test Method:	ANSI C63.10: 2	ANSI C63.10: 2013 and KDB 558074						
	Test Frequency Range:	2.3GHz to 2.5G	Hz						
	Test Distance:	3m							
	Receiver setup:	Frequency	Detec	tor	RBW	V	BW	Remark	
	•	Above 1GHz	Peal		1MHz		ИНz	Peak Value	
			RMS		1MHz		MHz I	Average Value	
	Limit:	Frequenc		Lin	nit (dBuV/m @ 54.00	3m)	Δν	Remark verage Value	
		Above 1G	Hz		74.00			Peak Value	
	Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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 rota 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. 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, quasipeak or average method as specified and then reported in a data 							
	Test setup:	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	AE E	· W	Hor 3m Ground Reference Plane	n Antenna	Antenna Tox	wer	
	Test Instruments:	Refer to section	5.8 for c	letail	S				
	Test mode:	Refer to section	5.3 for c	letail	S				
	Test results:	Passed							



802.11b mode:

Product Name:	Mobile Phone	Product model:	EKO Star 4.0 G40		
Test By:	Mike	Test mode:	802.11b Tx mode		
Test Channel:	Lowest channel	Polarization:	Vertical		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%		



	Freq		Antenna Factor						
	MHz	dBu7		<u>ab</u>	<u>ab</u>	dBu7/m	dBuV/m	<u>db</u>	
1 2	2390.000 2390.000								

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.

đВ

0.00 50.97 74.00 -23.03 Peak 0.00 43.06 54.00 -10.94 Average



Product Name:	Mobile Phone		Product mode	ŀ	EKO Star 4.0 G40	
Test By:	Mike		Test mode:		802.11b Tx mode	
Test Channel:	Lowest channel		Polarization:		Horizontal	
Test Voltage:	AC 120/60Hz		Environment:		Temp: 24°C	Huni: 57%
110 Level (dBuV/r	n)		m		FOC PART 15	
02310 2320	23	Frequency (M	Hz)			2422
	ReadAntenn Freq Level Facto	a Cable Freamp r Loss Factor	Limi Level Lin			

dBu7 dB/m dB dB dBu7/m dBu7/m

4.69

4.69

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

27.37

9.32 27.37

MHz

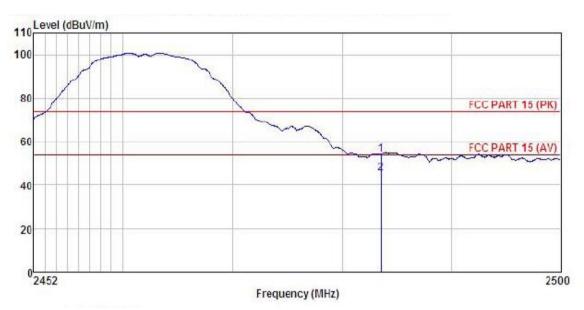
2390,000

2390.000 17.23

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:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

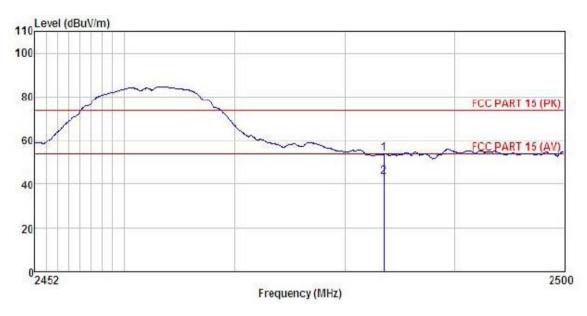


	Freq		Antenna Factor						
	MHz	dBu7		āB	<u>ab</u>	dBuV/m	dBuV/m	<u>ab</u>	
1 2	2483,500 2483,500								

- 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:	802.11b Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



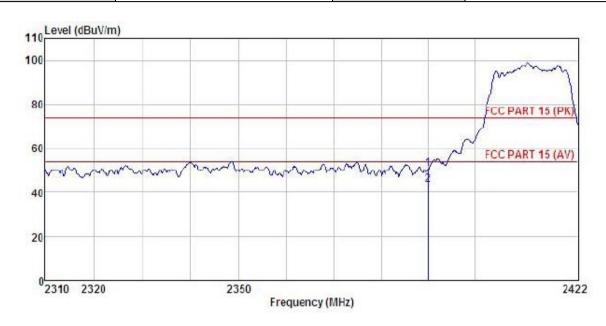
	Freq		Antenna Factor						
	MHz	dBu7	<u>dB</u> /m	āB	<u>ab</u>	dBuV/m	dBuV/m	B	
1 2	2483.500 2483.500								

- 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.



802.11g mode:

Product Name:	Mobile Phone	Product model:	EKO Star 4.0 G40
Test By:	Mike	Test mode:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



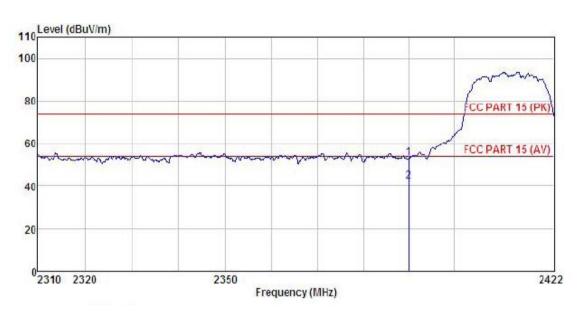
Freq		Antenna Factor						
MHz	dBu7		<u>ab</u>	<u>ab</u>	dBu7/m	dBuV/m	<u>ab</u>	
2390.000 2390.000								

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:	802.11g Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

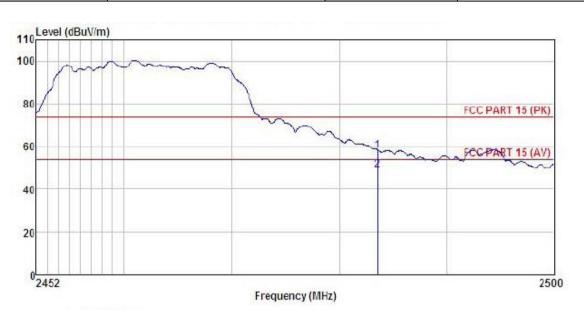


Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
MHz	—dBu7		āB	<u>dB</u>	dBu√/m	$\overline{dBuV/m}$	<u>db</u>	
2390.000 2390.000								

- 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:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

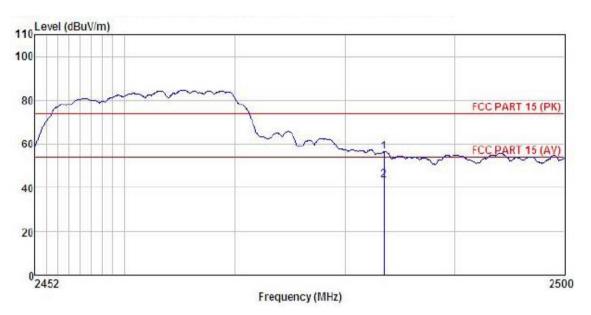


Freq		ntenna Cable Factor Loss					
MHz	dBu7	 <u>ab</u>	<u>ab</u>	dBu7/m	dBuV/m	<u>qp</u>	
2483.500 2483.500							

- 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:	802.11g Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq	ReadAntenna Freq Level Factor							
-	MHz	dBu7		<u>dB</u>	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
	2483.500 2483.500								

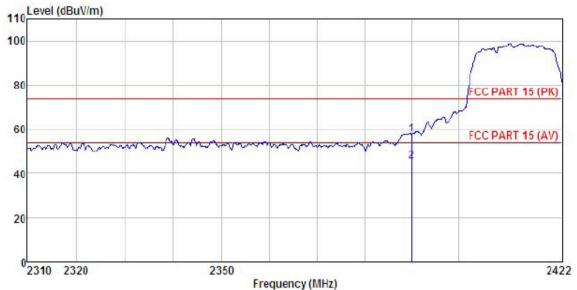
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





802.11n(HT20):

Product Name:	Mobile Phone	Product model:	EKO Star 4.0 G40							
Test By:	Mike	Test mode:	802.11n(HT20) Tx mode							
Test Channel:	Lowest channel	Polarization:	Vertical							
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%							
110 Level (dBuV/m)										



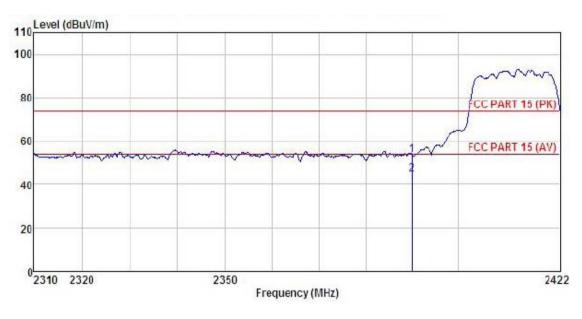
	Freq			Cable Freamp Loss Factor					
	MHz	dBu7			<u>ab</u>	dBu√/m	dBuV/m	<u>qp</u>	
1 2	2390.000 2390.000								

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:	802.11n(HT20) Tx mode		
Test Channel:	Lowest channel	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%		

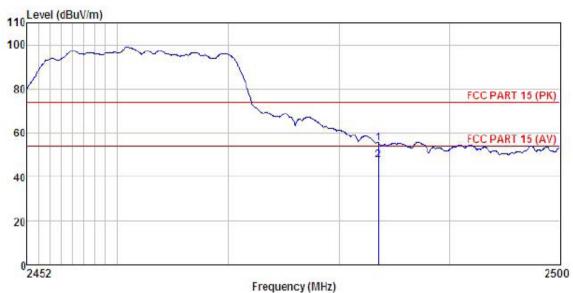


Freq			ntenna Cable Factor Loss					
MHz	dBu7		<u>ab</u>	<u>ab</u>	dBu7/m	dBuV/m	<u>db</u>	
2390.000 2390.000								

- 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:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

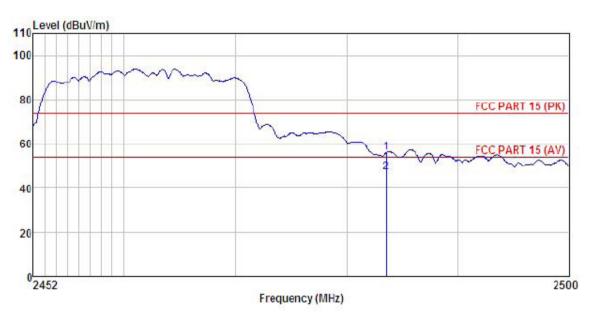


	Freq		Antenna Factor						
	MHz	dBuÿ	<u>dB/m</u>	<u>dB</u>	<u>dB</u>	dBuV/m	$\overline{dBuV/m}$	<u>dB</u>	
1	2483.500 2483.500								

- 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:	802.11n(HT20) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



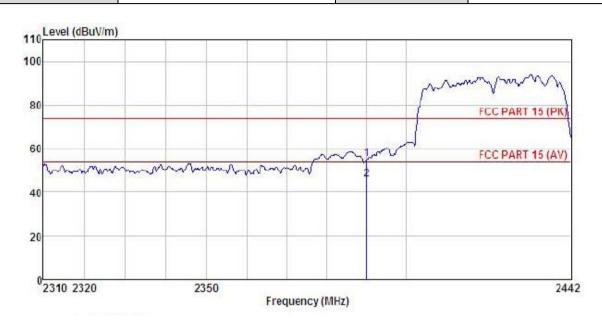
	Freq MHz	ReadAnte Freq Level Fac				Li Level L			
		Hz dBuy d		m	<u>a</u> B	dBu∛/m	dBuV/m	<u>db</u>	
1 2	2483.500 2483.500								

- 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.



802.11n(HT40):

Product Name:	Mobile Phone	Product model:	EKO Star 4.0 G40
Test By:	Mike	Test mode:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



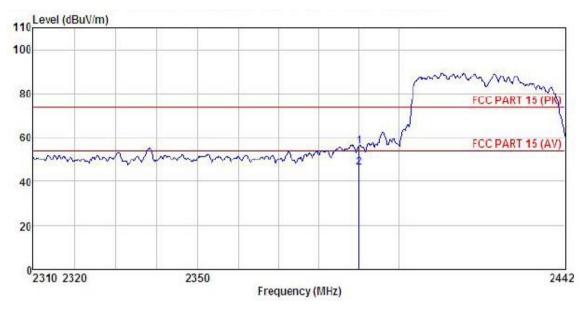
Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
MHz	dBu7			B	dBu7/m	dBuV/m	<u>db</u>	
2390.000 2390.000								

Pomark

- 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:	802.11n(HT40) Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

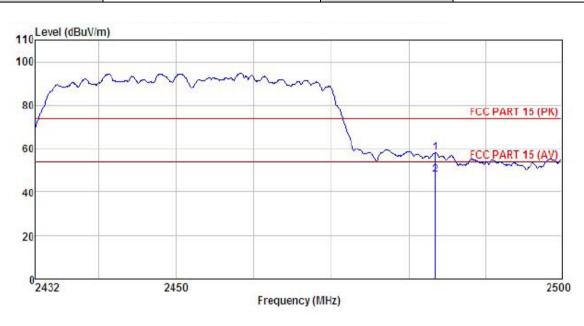


	Freq		Antenna Factor					
	MHz	dBu7	dBu7 dB/m	āB	 dBu∛/m	dBuV/m	<u>dB</u>	
1 2	2390.000 2390.000							

- 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:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

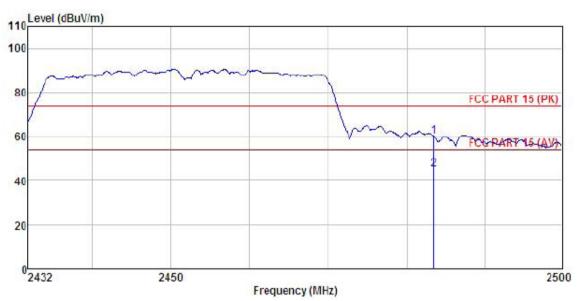


Freq			Antenna Factor						
	MHz	dBu7		<u>ab</u>	B	dBu7/m	dBuV/m	<u>ab</u>	
	2483.500 2483.500								

- 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:	802.11n(HT40) Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq	tenna Cable Freamp actor Loss Factor I					
-		MHz dBu7 dB/					
	2483.500 2483.500						

- 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.



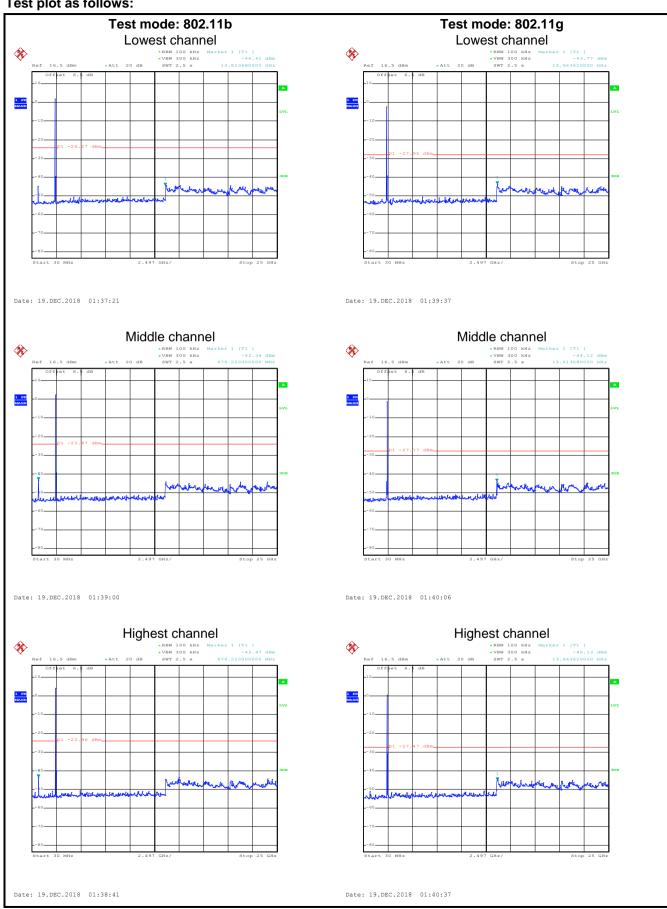
6.7 Spurious Emission

6.7.1 Conducted Emission Method

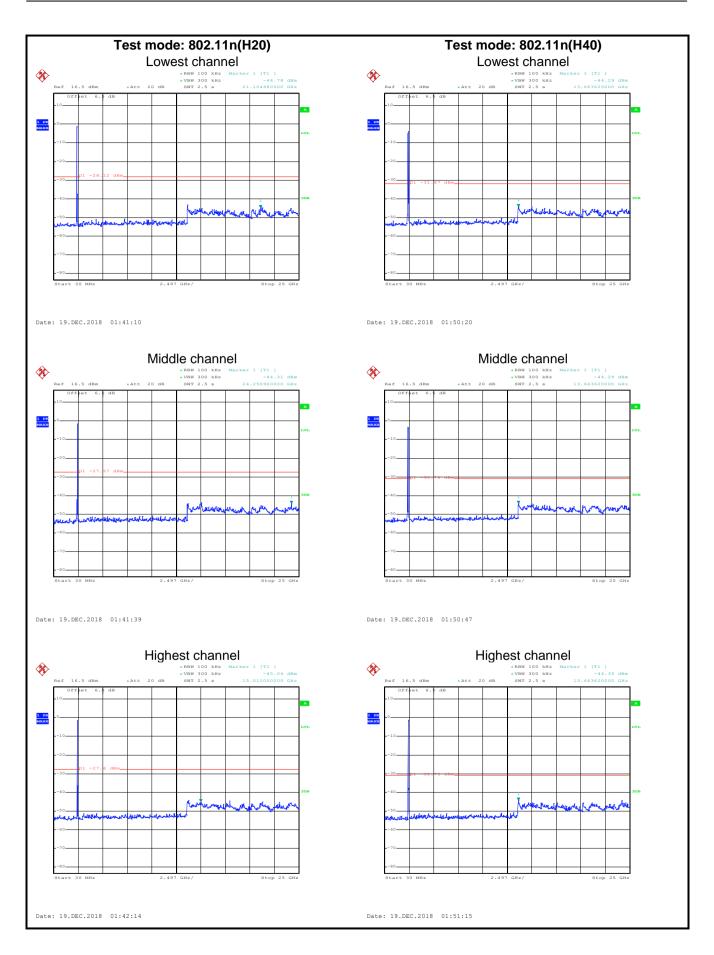
0.7.1 Conducted Emission							
Test Requirement:	FCC Part 15 C Section 15.247 (d)						
Test Method:	ANSI C63.10:2013 and KDB 558074						
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 5.8 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Passed						



Test plot as follows:





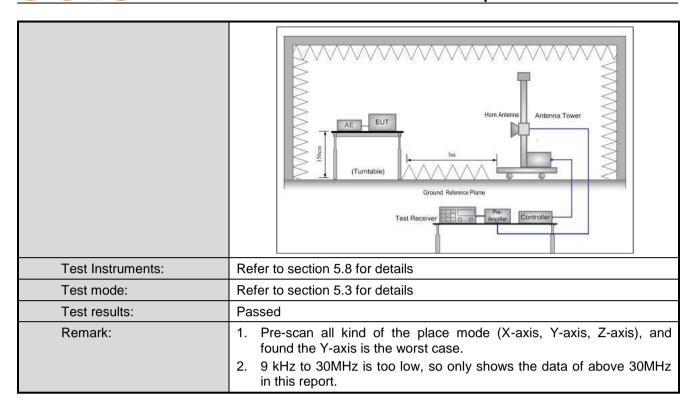




6.7.2 Radiated Emission Method

6.7.2	Radiated Emission Me	ethod								
	Test Requirement:	FCC Part 15 C Section 15.209 and 15.205								
	Test Method:	ANSI C63.10:201	ANSI C63.10:2013							
	Test Frequency Range:	9kHz to 25GHz								
	Test Distance:	3m								
	Receiver setup:	Frequency	Detect	tector RBW		VI	BW	Remark		
		30MHz-1GHz	Quasi-pe	si-peak 120KHz		300KHz		Quasi-peak Value		
		Above 1GHz Peak 1MHz 3MHz Peak Value								
	1 : 14.	- Fraguenay	RMS		1MHz		ИHz	Average Value		
	Limit:	Frequency 30MHz-88MH	7	LIIIIII	(dBuV/m @3r 40.0	11)	Oı	Remark uasi-peak Value		
		88MHz-216MH			43.5			uasi-peak Value		
		216MHz-960MI			46.0			uasi-peak Value		
		960MHz-1GH			54.0			uasi-peak Value		
					54.0			Average Value		
		Above 1GHz			74.0			Peak Value		
	Test Procedure:	1. The EUT wa								
	Test setup	The table was highest radia? The EUT was antenna, who tower. The antenna the ground to Both horizon make the med. For each suscase and the meters and to find the med. The test-reconspecified Base. If the emission the limit spec of the EUT we have 10dB med.	as rotated ation. s set 3 m ich was m height is o determinatal and versasureme spected een the antiche rota ta aximum reliver system individit a von level o cified, the would be margin wo	d 360 of the sent tenna able worten wouth the sent tenna able worten worten tenna tem worten tenna tem worten tenna tem tent tenna ten tent tent tent tent tent	away from the don the top of from one new maximum versions, the EUT was turned from the second to the top of t	ne into of a neter value s of the was a beginn 0 of mode stopped the ne by	erferent variable to four of the four of the four arrange this fro degree tect Furde. was 1 ped and emissione us	meter chamber. e position of the ace-receiving le-height antenna meters above field strength. enna are set to ed to its worst m 1 meter to 4 s to 360 degrees unction and lodB lower than d the peak values ions that did not sing peak, quasi- orted in a data		
	Test setup:	Below 1GHz EUT Turn Table Ground P	0.8m	4m			_			



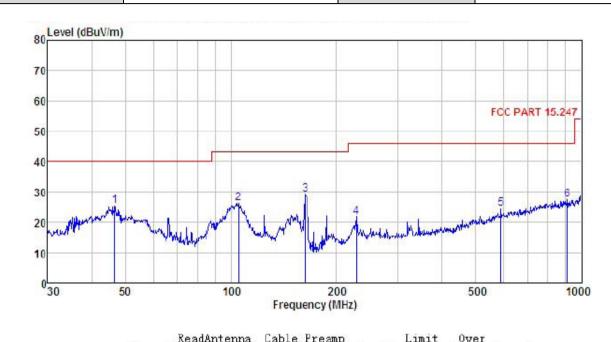




Measurement Data (worst case):

Below 1GHz:

Product Name:	Mobile Phone	Product model:	EKO Star 4.0 G40
Test By:	Mike	Test mode:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



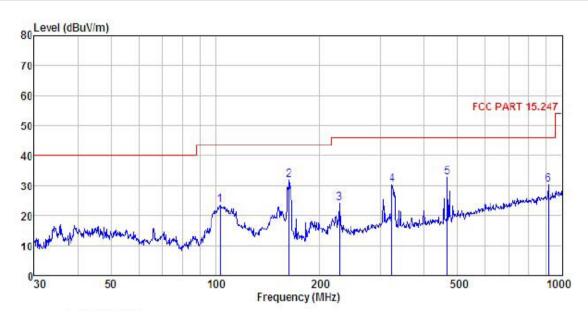
	Freq		Factor						Remark
	MHz	dBu7		<u>dB</u>	<u>d</u> B	dBuV/m	$\overline{dBuV/m}$	<u>dB</u>	
1	46.503	40.19	13.82	1.28	29.85	25. 44	40.00	-14.56	QP
1 2 3 4 5	104.903	41.83	12.00	2.00	29.49	26.34	43.50	-17.16	QF
3	162.611	46.48	9.18	2.61	29.11	29.16	43.50	-14.34	QF
4	227.691	34.98	12.55	2.84	28.66	21.71	46.00	-24.29	QF
5	588.905	30.46	18.94	3.93	28.97	24.36	46.00	-21.64	QP
6	909.667	29.16	22.32	3.81	27.85	27.44	46.00	-18.56	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:	Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor						Remark
	MHz	dBu7	— <u>d</u> B/m	<u>ab</u>	<u>ab</u>	dBuV/m	dBuV/m	<u>ab</u>	
1	103.080	39.15	11.89	1.97	29.51	23, 50	43.50	-20.00	QF
	162.611	49.33	9.18	2.61	29.11	32.01	43.50	-11.49	QP
23456	227.691	37.37	12.55	2.84	28.66	24.10	46.00	-21.90	QF
4	323.320	41.68	14.09	3.02	28.50	30.29	46.00	-15.71	QF
5	465.599	41.87	16.55	3.33	28.90	32, 85	46.00	-13.15	QP
6	912.862	32.14	22. 33	3.84	27.84	30.47	46.00	-15.53	QP

- 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

Above 1GHz												
				802.11b								
			Test ch	annel: Lowe	est channel							
			De	tector: Peak	Value							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4824.00	46.55	30.94	6.81	41.82	42.48	74.00	-31.52	Vertical				
4824.00	46.49	30.94	6.81	41.82	42.42	74.00	-31.58	Horizontal				
Detector: Average Value												
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4824.00	37.20	30.94	6.81	41.82	33.13	54.00	-20.87	Vertical				
4824.00	37.82	30.94	6.81	41.82	33.75	54.00	-20.25	Horizontal				
				nannel: Mido								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4874.00	46.65	31.20	6.85	41.84	42.86	74.00	-31.14	Vertical				
4874.00	46.32	31.20	6.85	41.84	42.53	74.00	-31.47	Horizontal				
			Dete	ctor: Averaç	ge Value							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4874.00	37.45	31.20	6.85	41.84	33.66	54.00	-20.34	Vertical				
4874.00	37.41	31.20	6.85	41.84	33.62	54.00	-20.38	Horizontal				
			Test ch	annel: Highe	est channel							
			De	tector: Peak	Value							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4924.00	49.62	31.46	6.89	41.86	46.11	74.00	-27.89	Vertical				
4924.00	50.01	31.46	6.89	41.86	46.50	74.00	-27.50	Horizontal				
			Dete	ctor: Averaç	e Value							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization				
4924.00	41.66	31.46	6.89	41.86	38.15	54.00	-15.85	Vertical				
4924.00	42.31	31.46	6.89	41.86	38.80	54.00	-15.20	Horizontal				

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.





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	Test channel: Lowest channel												
Detector: Peak Value													
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization					
4824.00	46.58	30.94	6.81	41.82	42.51	74.00	-31.49	Vertical					
4824.00	46.64	30.94	6.81	41.82	42.57	74.00	-31.43	Horizontal					
Detector: Average Value													
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization					
4824.00	37.26	30.94	6.81	41.82	33.19	54.00	-20.81	Vertical					
4824.00	37.81	30.94	6.81	41.82	33.74	54.00	-20.26	Horizontal					
			Test ch	annel: Midd	le channel								
			Det	tector: Peak	Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization					
4874.00	46.84	31.20	6.85	41.84	43.05	74.00	-30.95	Vertical					
4874.00	48.47	31.20	6.85	41.84	44.68	74.00	-29.32	Horizontal					
			Dete	ctor: Averag	ge Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization					
4874.00	36.82	31.20	6.85	41.84	33.03	54.00	-20.97	Vertical					
4874.00	37.42	31.20	6.85	41.84	33.63	54.00	-20.37	Horizontal					
			Took ale	annalı I liabi	at abanal								
				annel: Highe									
T	Read	Antonno		tector: Peak	value								
Frequency (MHz)	Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization					
4924.00	49.52	31.46	6.89	41.86	46.01	74.00	-27.99	Vertical					
4924.00	49.61	31.46	6.89	41.86	46.10	74.00	-27.90	Horizontal					
			Dete	ctor: Averag	ge Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization					
4924.00	40.56	31.46	6.89	41.86	37.05	54.00	-16.95	Vertical					
4924.00	40.19	31.46	6.89	41.86	36.68	54.00	-17.32	Horizontal					
Remark:					Loop Proon								

^{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.





802.11n(HT20)											
Test channel: Lowest channel											
Detector: Peak Value											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4824.00	46.55	36.06	6.81	41.82	47.60	74.00	-26.40	Vertical			
4824.00	46.83	36.06	6.81	41.82	47.88	74.00	-26.12	Horizontal			
Detector: Average Value											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4824.00	37.24	36.06	6.81	41.82	38.29	54.00	-15.71	Vertical			
4824.00	37.39	36.06	6.81	41.82	38.44	54.00	-15.56	Horizontal			
			Test ch	annel: Midd	lle channel						
				tector: Peak							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4874.00	46.82	36.32	6.85	41.84	48.15	74.00	-25.85	Vertical			
4874.00	46.87	36.32	6.85	41.84	48.20	74.00	-25.80	Horizontal			
			Dete	ctor: Averag	je Value						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4874.00	37.06	36.32	6.85	41.84	38.39	54.00	-15.61	Vertical			
4874.00	37.23	36.32	6.85	41.84	38.56	54.00	-15.44	Horizontal			
				annel: Highe							
		T T		tector: Peak	Value		T				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4924.00	49.86	36.58	6.89	41.86	51.47	74.00	-22.53	Vertical			
4924.00	49.94	36.58	6.89	41.86	51.55	74.00	-22.45	Horizontal			
			Dete	ctor: Averag	je Value						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4924.00	40.52	36.58	6.89	41.86	42.13	54.00	-11.87	Vertical			
4924.00	40.69	36.58	6.89	41.86	42.30	54.00	-11.70	Horizontal			
Remark:		" Dood lovel	Antonno Fo	atan . Cabla	l oss – Pream	mlifia u Faatau					

^{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.





	802.11n(HT40)										
Test channel: Lowest channel											
Detector: Peak Value											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4844.00	46.82	36.06	6.81	41.82	47.87	74.00	-26.13	Vertical			
4844.00	46.81	36.06	6.81	41.82	47.86	74.00	-26.14	Horizontal			
Detector: Average Value											
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4844.00	37.52	36.06	6.81	41.82	38.57	54.00	-15.43	Vertical			
4844.00	37.19	36.06	6.81	41.82	38.24	54.00	-15.76	Horizontal			
			Test ch	annel: Midd	le channel						
				tector: Peak							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4874.00	46.98	36.32	6.85	41.84	48.31	74.00	-25.69	Vertical			
4874.00	47.52	36.32	6.85	41.84	48.85	74.00	-25.15	Horizontal			
			Dete	ctor: Averag	je Value						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4874.00	37.12	36.32	6.85	41.84	38.45	54.00	-15.55	Vertical			
4874.00	38.27	36.32	6.85	41.84	39.60	54.00	-14.40	Horizontal			
				annel: Highe							
		T T		tector: Peak	Value		T				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4904.00	49.82	36.45	6.87	41.85	51.29	74.00	-22.71	Vertical			
4904.00	49.93	36.45	6.87	41.85	51.40	74.00	-22.60	Horizontal			
			Dete	ctor: Averaç	je Value						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
4904.00	41.26	36.45	6.87	41.85	42.73	54.00	-11.27	Vertical			
4904.00	41.09	36.45	6.87	41.85	42.56	54.00	-11.44	Horizontal			
Remark:	val Dagaine	" Dood lovel	Antonno Fo	atan . Cabla	Lana Dunam	nnlifier Factor					

^{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.