

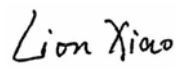
FCC PART 15 B TEST REPORT

For

POSH Mobile Limited

1011A, 10/F., Harbour Centre Tower 1, No. 1 Hok Cheung St., Hung Hom, Kowloon, Hong Kong

FCC ID: 2AG8KX551

Report Type: Original Report	Product Type: Icon Pro HD
Test Engineer: Lion Xiao	
Report Number: RDG160118001-00B	
Report Date: 2016-01-25	
Reviewed By: RF Leader	
Test Laboratory: Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn	

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *POSH Mobile Limited*'s product, model number: *X551 (FCC ID: 2AG8KX551)* (the "EUT") in this report was a *Icon Pro HD*, which was measured approximately: 15.32 cm (L) x 7.9 cm (W) x 8.2cm (H), rated input voltage: DC3.7V rechargeable Li-ion battery or DC5V charging from adapter. The highest operating frequency is 2480MHz.

Adapter information:

PART NO.: C02-X511

MODEL: TL6D-0501000

INPUT: 100-240V ~ 50/60Hz 0.15A

OUTPUT: DC 5.0V, 1000mA

Note: The model X551 have different samples, they are the same electromagnetic emissions and electromagnetic compatibility characteristics, the difference between them is model name and appearance, the details was explained in the attached declaration letter.

All measurement and test data in this report was gathered from production sample serial number: 160118001 (Assigned byBACL, Dongguan). The EUT was received on 2016-01-19.

Objective

This test report is prepared on behalf of *POSH Mobile Limited*. in accordance with Part 2, Subpart J, and Part 15-Subparts A and B of the Federal Communications Commission's rules.

The objective of the manufacturer is to determine the compliance of EUT with FCC Part 15 B Class B.

Related Submittal(s)/Grant(s)

FCC Part 15C DSS submissions with FCC ID: 2AG8KX551.

FCC Part 22H, 24E PCE submissions with FCC ID: 2AG8KX551.

FCC Part 15C DST submissions with FCC ID: 2AG8KX551.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Dongguan).

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communications Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 06, 2015.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

EUT Exercise Software

The software “winthrax.exe” was used during test.

Equipment Modifications

No modification was made to the EUT tested.

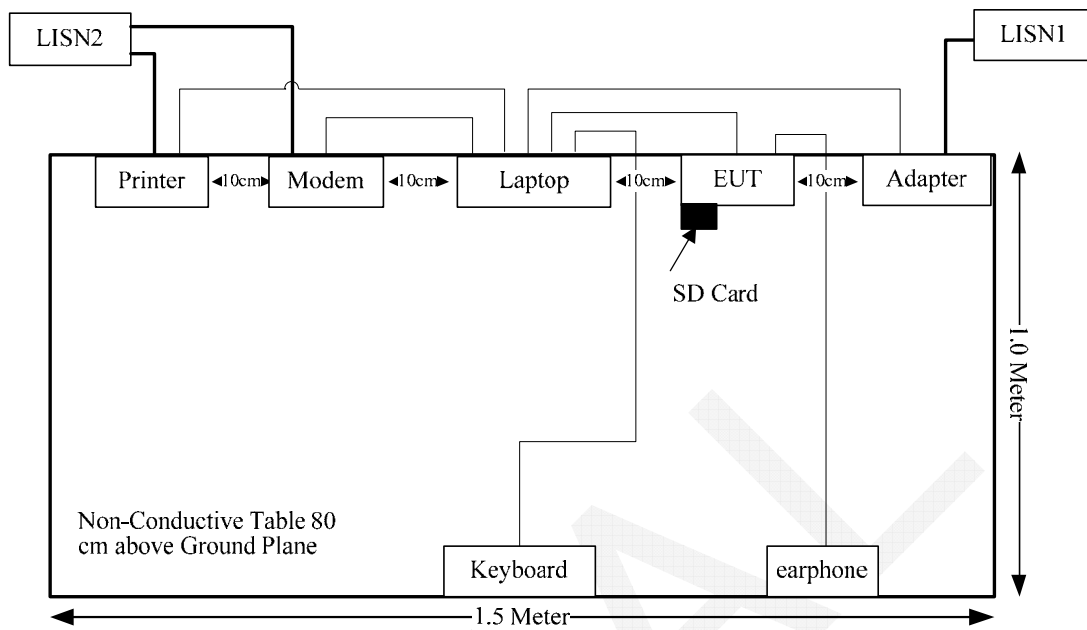
Local Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
DELL	Laptop	PP11L	QDS-BRCM1017
HP	Printer	C3941A	JPTVOB2337
DELL	Keyboard	L100	CNORH656658907BL05DC
SAST	Modem	AEM-2100	0293
Kingston	Micro SD card	8GB	/

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Serial Cable	yes	No	1.2	Serial Port of Laptop	Modem
Parallel Cable	yes	No	1.2	Parallel Port of Laptop	Printer
Keyboard Cable	yes	No	1.8	USB Port of Laptop	Keyboard
USB Cable	No	No	1.0	USB Port of Laptop	EUT
Earphone Cable	No	No	1.2	Audio Port of EUT	Earphone

Configuration of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	Conducted Emissions	Compliance
§15.109	Radiated Emissions	Compliance

FCC§15.107 - CONDUCTED EMISSIONS

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are Receiver, cable loss, and LISN.

Compliance or non- compliance with a disturbance limit shall be determined in the following manner

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The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15 B Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The adapter of laptop was connected to a 120V/60Hz AC power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30

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Herein,

V_C : corrected voltage amplitude

V_R : reading voltage amplitude

A_C : attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15 B Class B, with the worst margin reading of:

15.0 dB at 0.436318 MHz in the **Neutral** conducted mode

Test Data

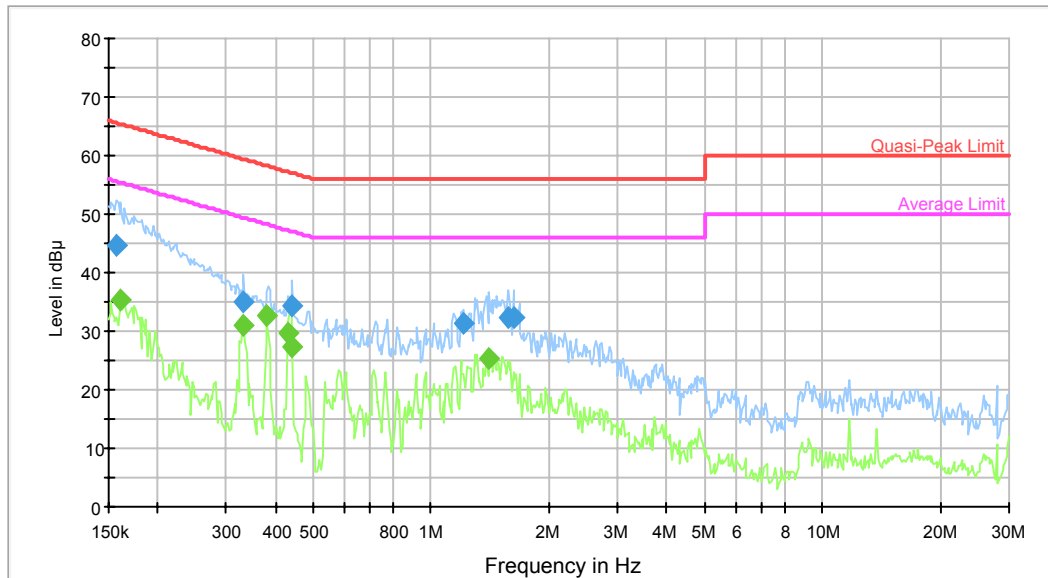
Environmental Conditions

Temperature:	22.4°C
Relative Humidity:	44 %
ATM Pressure:	101.6 kPa

The testing was performed by Lion Xiao on 2016-01-19.

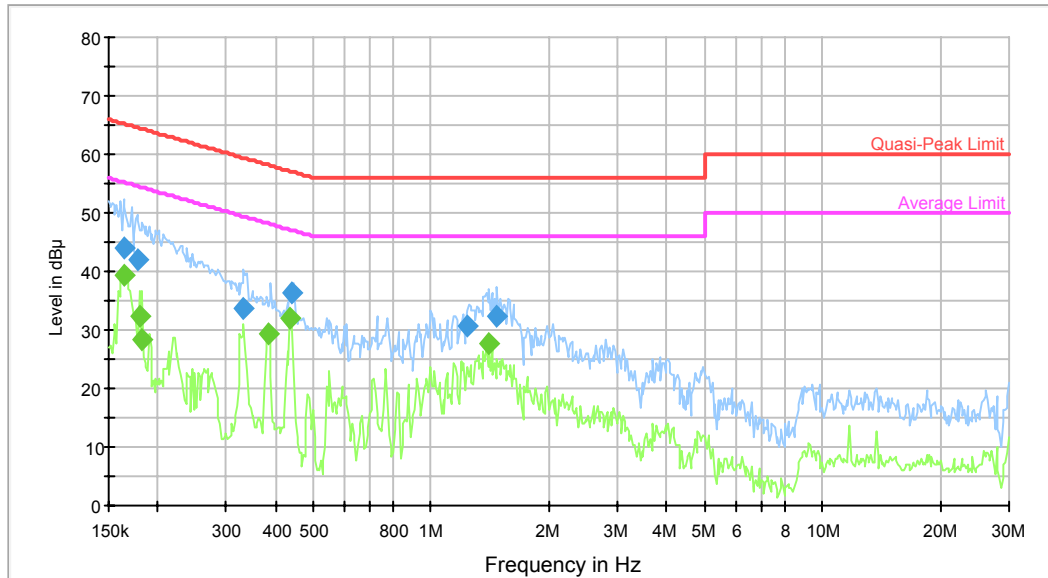
Test Mode: Downloading

AC120V, 60Hz, Line:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.157346	44.6	9.000	L1	9.7	21.0	65.6	Compliance
0.332770	35.0	9.000	L1	9.7	24.4	59.4	Compliance
0.443327	34.4	9.000	L1	9.8	22.6	57.0	Compliance
1.209904	31.4	9.000	L1	9.8	24.6	56.0	Compliance
1.573796	32.3	9.000	L1	9.8	23.7	56.0	Compliance
1.624765	32.2	9.000	L1	9.8	23.8	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.161152	35.3	9.000	L1	9.7	20.1	55.4	Compliance
0.330129	31.0	9.000	L1	9.7	18.4	49.4	Compliance
0.381043	32.8	9.000	L1	9.8	15.5	48.3	Compliance
0.429420	29.8	9.000	L1	9.8	17.5	47.3	Compliance
0.439808	27.3	9.000	L1	9.8	19.8	47.1	Compliance
1.407671	25.4	9.000	L1	9.8	20.6	46.0	Compliance

AC120V, 60Hz, Neutral:

Frequency (MHz)	QuasiPeak (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.163741	43.9	9.000	N	9.7	21.4	65.3	Compliance
0.177322	41.9	9.000	N	9.7	22.7	64.6	Compliance
0.332770	33.7	9.000	N	9.7	25.7	59.4	Compliance
0.443327	36.2	9.000	N	9.7	20.8	57.0	Compliance
1.239175	30.8	9.000	N	9.8	25.2	56.0	Compliance
1.476605	32.4	9.000	N	9.8	23.6	56.0	Compliance

Frequency (MHz)	Average (dB μ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.165051	39.3	9.000	N	9.7	15.9	55.2	Compliance
0.180171	32.4	9.000	N	9.7	22.1	54.5	Compliance
0.183065	28.3	9.000	N	9.7	26.0	54.3	Compliance
0.384091	29.2	9.000	N	9.7	19.0	48.2	Compliance
0.436318	32.1	9.000	N	9.7	15.0	47.1	Compliance
1.407671	27.7	9.000	N	9.8	18.3	46.0	Compliance

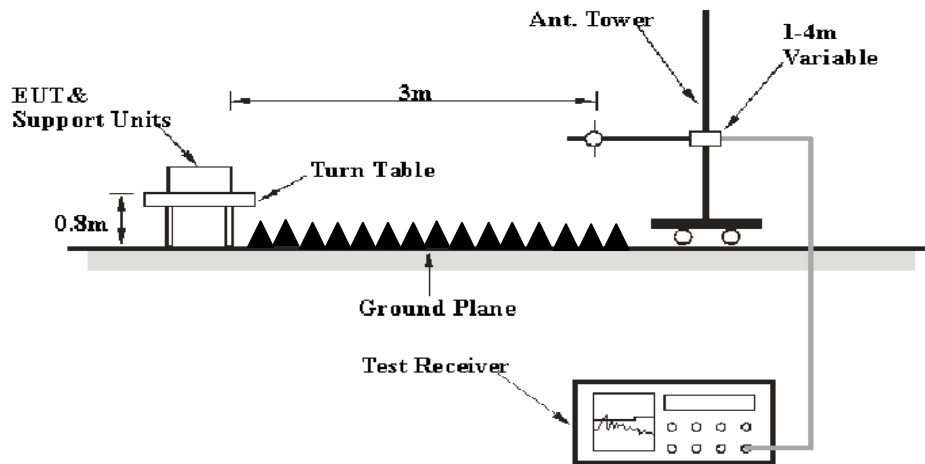
FCC §15.109 - RADIATED SPURIOUS EMISSIONS

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner

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Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 13 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	Peak
	1 MHz	10 Hz	/	AVG

Test Procedure

During the radiated emissions, the adapter of laptop was connected to the first AC floor outlet and the other support equipments were connected to the second AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

The data was recorded in the Quasi-peak detection mode for below 1 GHz, peak and average detection mode above 1 GHz.

Test Equipment List and Details

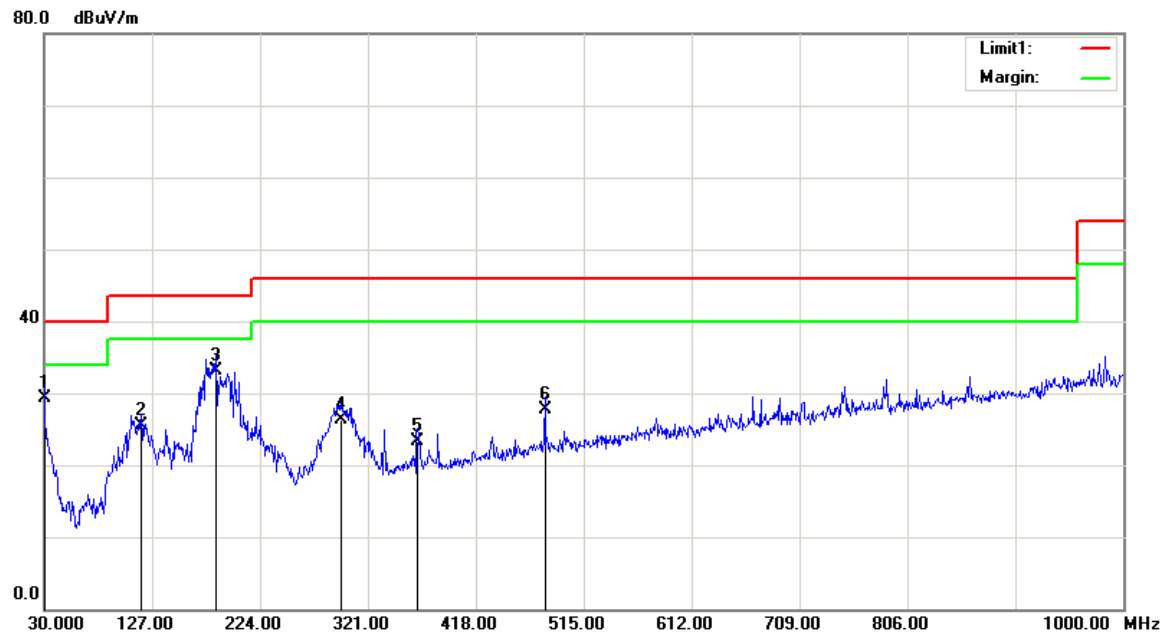
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2015-08-03	2016-08-02
Sunol Sciences	Antenna	JB3	A060611-3	2014-11-06	2017-11-05
HP	Amplifier	8447E	2434A02181	2015-09-01	2016-09-01
Agilent	Spectrum Analyzer	E4440A	SG43360054	2015-11-23	2016-11-22
ETS-Lindgren	Horn Antenna	3115	9808-5557	2015-09-06	2018-09-06
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2015-02-19	2016-02-19
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
N/A	Coaxial Cable	14m	N/A	2015-05-06	2016-05-06
N/A	Coaxial Cable	8m	N/A	2015-05-06	2016-05-06

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations

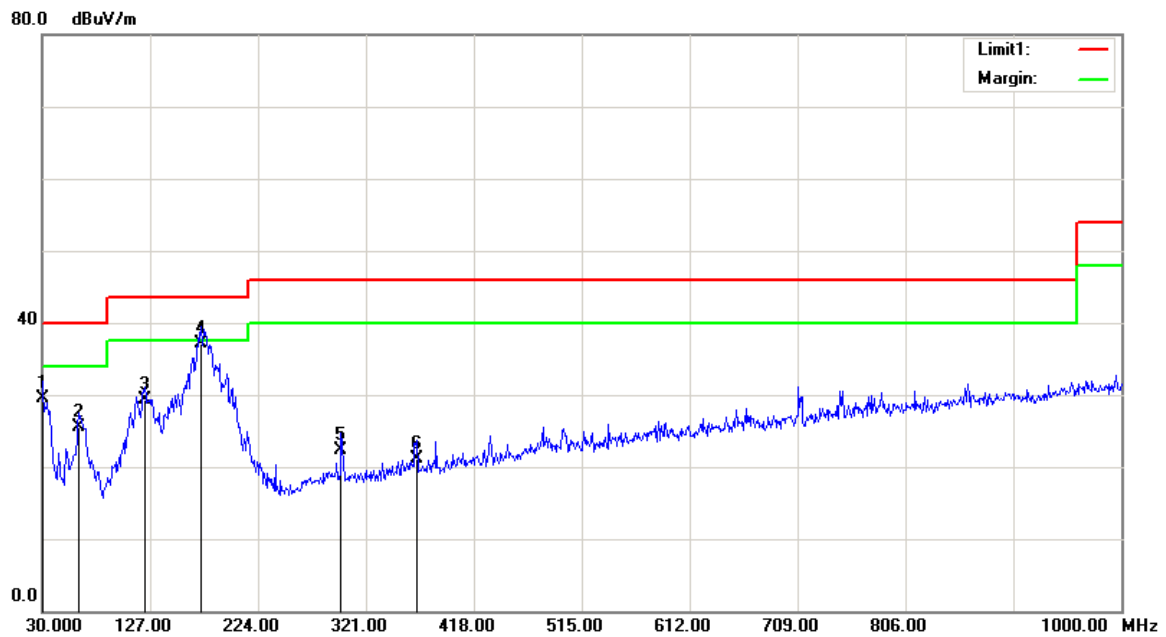
Test Mode: Downloading

1) Below 1GHz:

Horizontal



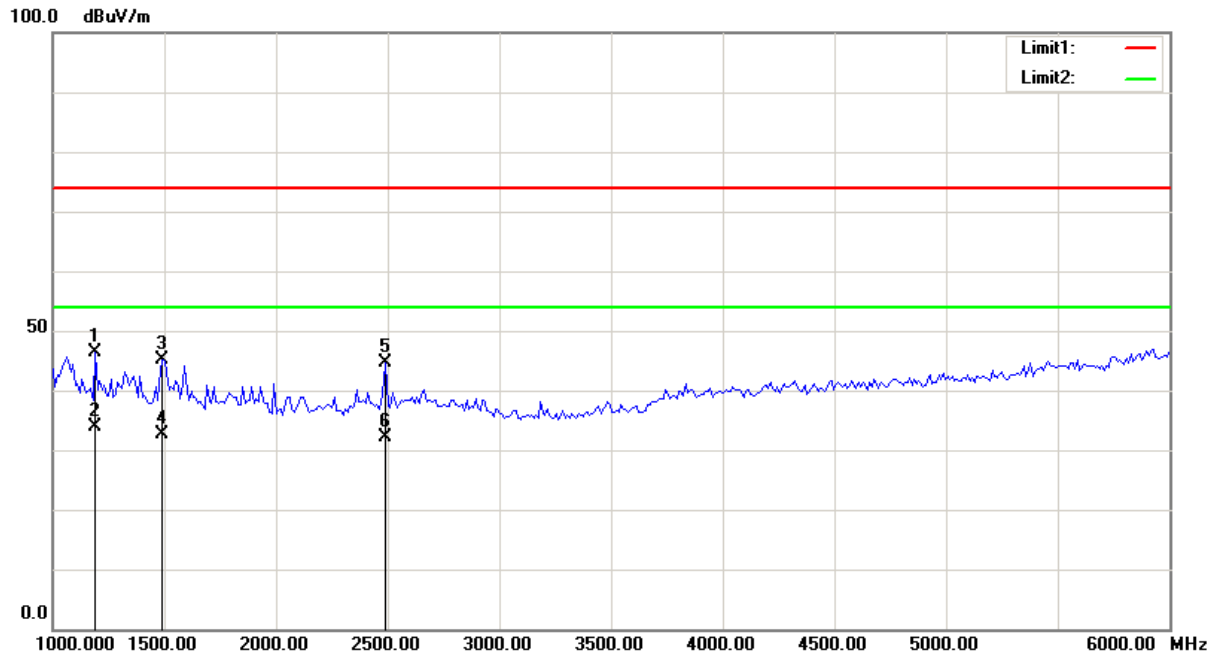
Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.0000	27.60	QP	1.70	29.30	40.00	10.70
117.3000	31.70	QP	-6.20	25.50	43.50	18.00
184.2300	41.66	QP	-8.46	33.20	43.50	10.30
296.7500	31.88	QP	-5.48	26.40	46.00	19.60
365.6200	27.06	QP	-3.66	23.40	46.00	22.60
480.0800	28.96	QP	-1.26	27.70	46.00	18.30

Vertical

Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.0000	27.80	QP	1.70	29.50	40.00	10.50
62.9800	38.18	QP	-12.58	25.60	40.00	14.40
122.1500	35.22	QP	-5.82	29.40	43.50	14.10
172.5900	45.29	QP	-8.19	37.10	43.50	6.40
298.6900	27.75	QP	-5.45	22.30	46.00	23.70
366.5900	24.88	QP	-3.68	21.20	46.00	24.80

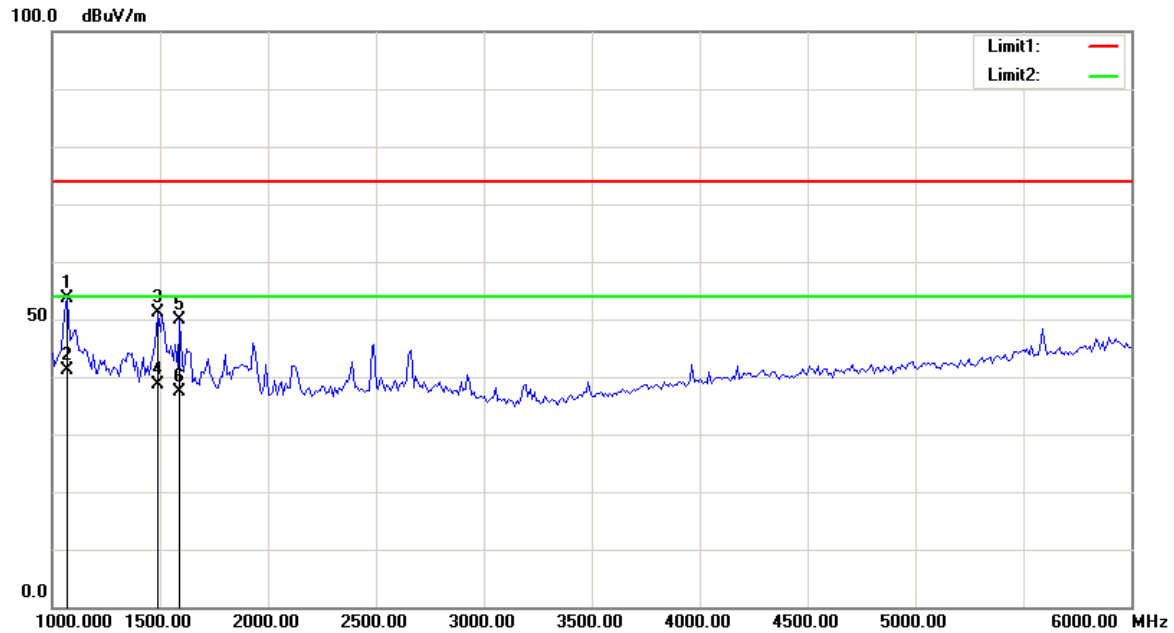
2) Above 1GHz:

Horizontal



Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1190.381	41.73	peak	4.55	46.28	74.00	27.72
1190.381	29.24	AVG	4.55	33.79	54.00	20.21
1490.982	41.90	peak	3.25	45.15	74.00	28.85
1490.982	29.43	AVG	3.25	32.68	54.00	21.32
2492.986	39.88	peak	4.67	44.55	74.00	29.45
2492.986	27.39	AVG	4.67	32.06	54.00	21.94

Note: For above 6 GHz, no emission was detected.

Vertical

Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1070.140	48.82	peak	4.87	53.69	74.00	20.31
1070.140	36.38	AVG	4.87	41.25	54.00	12.75
1490.982	47.96	peak	3.25	51.21	74.00	22.79
1490.982	35.42	AVG	3.25	38.67	54.00	15.33
1591.182	46.22	peak	3.69	49.91	74.00	24.09
1591.182	33.74	AVG	3.69	37.43	54.00	16.57

Note: For above 6 GHz, no emission was detected.

DECLARATION LETTER

Declaration of Alteration

To Whom It May Concern,

We, POSH Mobile Limited, hereby declare that there are some differences between our Multiple Models and testing products. Details as below:

(This is for your reference only.)

Products Description	Name	Icon Pro HD	
	Brand	POSH	
	Manufacturer	Shenzhen Posh Mobile Limited	
	Project No.	RDG160118001_RDG160118001 -20	
Differences Description			
Testing Products	Multiple Models	Differences Items	Details
X551	X551A,X551B,X551C	Model name.Appearance	They are same motherboard, and just have the different model name and appearance.

Notes: Testing products-the products tested by BACL

Multiple Model- have the same or similar appearance, structure, PCB, Material and function to the testing products, and only are different for little parameters.

Besides the differences in the table above, we declare the products are identical

We guarantee all the information provided above is true, and notice that we'll bear all the consequences caused by any false information or concealing

Best Regards,

Signature:

Print Name: Warren Chan

Title: Manager



***** END OF REPORT *****