Report No: CCISE161100705

FCC REPORT

Applicant: i-Mobile Technology corporation

Address of Applicant: 3F #8 Alley 15 Lane 120 Sec. 1 Neihu Road, Neihu District,

Taipei City 114, Taiwan

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: IMT-10PLUS

Trade mark: @mobile

FCC ID: XZO-IMT-10PLUS

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 02 Nov., 2016

Date of Test: 02 Nov., to 14 Dec., 2016

Date of report issued: 14 Dec., 2016

Test Result: Pass *

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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





2 Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | 14 Nov., 2016 | Original |
| | | |
| | | |
| | | |
| | | |

Tested by:

Test Engineer

Date: 14 Nov., 2016

Reviewed by: Date: 14 Nov., 2016

Project Engineer





3 Contents

| | | | Page |
|---|-----|----------------------------------|------|
| 1 | С | COVER PAGE | 1 |
| 2 | ٧ | /ERSION | 2 |
| 3 | С | CONTENTS | 3 |
| 4 | Т | EST SUMMARY | 4 |
| 5 | G | GENERAL INFORMATION | 5 |
| | 5.1 | CLIENT INFORMATION | 5 |
| | 5.2 | GENERAL DESCRIPTION OF E.U.T. | |
| | 5.3 | TEST MODE | |
| | 5.4 | Measurement Uncertainty | |
| | 5.5 | DESCRIPTION OF SUPPORT UNITS | |
| | 5.6 | LABORATORY FACILITY | |
| | 5.7 | LABORATORY LOCATION | |
| | 5.8 | TEST INSTRUMENTS LIST | 7 |
| 6 | Т | EST RESULTS AND MEASUREMENT DATA | |
| | 6.1 | CONDUCTED EMISSION | 8 |
| | 6.2 | RADIATED EMISSION | |
| 7 | Т | EST SETUP PHOTO | 17 |
| 8 | E | EUT CONSTRUCTIONAL DETAILS | 18 |





4 Test Summary

| Test Item | Section in CFR 47 | Result | |
|--------------------|-------------------|--------|--|
| Conducted Emission | Part 15.107 | Pass | |
| Radiated Emission | Part 15.109 | Pass | |

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



5 General Information

5.1 Client Information

| Applicant: | i-Mobile Technology corporation | | |
|--------------------------------------|---|--|--|
| Address of Applicant: | 3F #8 Alley 15 Lane 120 Sec. 1 Neihu Road , Neihu District ,Taipei City 114 ,Taiwan | | |
| Manufacturer and Factory: | i-Mobile Technology corporation | | |
| Address of Manufacturer and Factory: | 3F #8 Alley 15 Lane 120 Sec. 1 Neihu Road , Neihu District ,Taipei City 114 ,Taiwan | | |

5.2 General Description of E.U.T.

| Product Name: | Tablet PC |
|---------------|--|
| Model No.: | IMT-10PLUS |
| Power supply: | Rechargeable Li-ion Battery DC10.8Vx2, 3400mAh/pcs |
| | Model: ATS065S-P160 LPS |
| AC adapter : | Input: AC100-240V 50/60Hz 1.4A |
| | Output: DC 16V, 4.07A |

5.3 Test Mode

| Operating mode | Detail description |
|-----------------------|--|
| PC mode | Keep the EUT in Downloading mode(Worst case) |
| Charging+RJ45 mode | Keep the EUT in Charging+RJ45 mode |
| Charging+Playing mode | Keep the EUT in Charging+Playing mode |
| FM mode | Keep the EUT in FM receiver mode |
| GPS mode | Keep the EUT in GPS receiver mode |

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 Measurement Uncertainty

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



Report No: CCISE161100705

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 |
| HP | Printer | CB495A | 05257893 | DoC |

5.6 Laboratory Facility

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

• FCC - Registration No.: 817957

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

• IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282 Fax: +86-755-23116366





5.8 Test Instruments list

| Radiated Emission: | | | | | | | | |
|--------------------|---------------------------------|-----------------------------------|----------------------|----------|-------------------------|-----------------------------|--|--|
| Item | Test Equipment | Manufacturer | nufacturer Model No. | | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) | | |
| 1 | 3m SAC | SAEMC | 9(L)*6(W)* 6(H) | CCIS0001 | 08-23-2014 | 08-22-2017 | | |
| 2 | BiConiLog Antenna | SCHWARZBECK | VULB9163 | CCIS0005 | 03-25-2016 | 03-25-2017 | | |
| 3 | Horn Antenna | SCHWARZBECK | BBHA9120D | CCIS0006 | 03-25-2016 | 03-25-2017 | | |
| 4 | Pre-amplifier (10kHz-1.3GHz) | HP | 8447D | CCIS0003 | 04-01-2016 | 03-31-2017 | | |
| 5 | Pre-amplifier (1GHz-18GHz) | Compliance Direction Systems Inc. | PAP-1G18 | CCIS0011 | 04-01-2016 | 03-31-2017 | | |
| 6 | Spectrum analyzer 9k-30GHz | Rohde & Schwarz | FSP30 | CCIS0023 | 03-28-2016 | 03-28-2017 | | |
| 7 | EMI Test Receiver | Rohde & Schwarz | ESRP7 | CCIS0167 | 03-28-2016 | 03-28-2017 | | |
| 8 | EMI Test Software AUDIX | | E3 | N/A | N/A | N/A | | |
| 9 | Coaxial Cable | N/A | N/A | CCIS0018 | 04-01-2016 | 03-31-2017 | | |
| 10 | Coaxial Cable | N/A | N/A | CCIS0020 | 04-01-2016 | 03-31-2017 | | |

| Cond | Conducted Emission: | | | | | | | | | |
|--|---------------------|--------------------|-----------------------|----------|------------|------------|--|--|--|--|
| Item Test Equipment Manufacturer Model No. Inventory Cal.Date (mm-dd-yy) | | | | | | | | | | |
| 1 | Shielding Room | ZhongShuo Electron | 11.0(L)x4.0(W)x3.0(H) | CCIS0061 | 08-23-2014 | 08-22-2017 | | | | |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESCI | CCIS0002 | 03-24-2016 | 03-24-2017 | | | | |
| 3 | LISN | CHASE | MN2050D | CCIS0074 | 03-26-2016 | 03-26-2017 | | | | |
| 4 | Coaxial Cable | CCIS | N/A | CCIS0086 | 04-01-2016 | 03-31-2017 | | | | |
| 5 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A | | | | |



6 Test results and Measurement Data

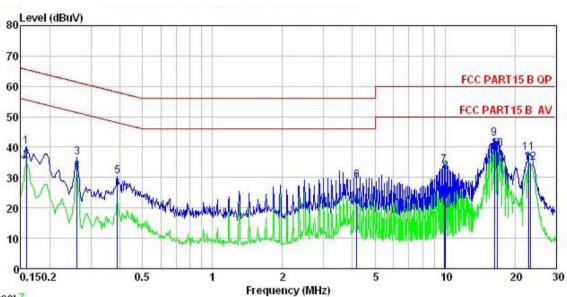
6.1 Conducted Emission

| Test Requirement: | FCC Part 15 B Section 15.107 | | | | | |
|-----------------------|---|--|--|--|--|--|
| Test Method: | ANSI C63.4:2014 | | | | | |
| Test Frequency Range: | 150kHz to 30MHz | | | | | |
| Class / Severity: | Class B | | | | | |
| Receiver setup: | RBW=9kHz, VBW=30kHz | | | | | |
| Limit: | Francisco de CALLE | Limit (| (dBµV) | | | |
| | Frequency range (MHz) | Quasi-peak | Average | | | |
| | 0.15-0.5 | 66 to 56* | 56 to 46* | | | |
| | 0.5-5 | 56 | 46 | | | |
| | 0.5-30 | 60 | 50 | | | |
| | * Decreases with the logarith | | | | | |
| Test setup: | Reference Plan | ne | _ | | | |
| | AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test L/SN. Line Impedence Stabilization Network Test table height=0.8m | | | | | |
| Test procedure | The E.U.T and simulators line impedance stabilization 500hm/50uH coupling impedance. The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs). Both sides of A.C. line are interference. In order to fir positions of equipment an according to ANSI C63.4: | on network(L.I.S.N.). The pedance for the measure also connected to the ohm/50uH coupling impose to the block diagram of the maximum emission all of the interface cal | ne provide a ring equipment. In main power through bedance with 500hm of the test setup and an conducted rion, the relative bles must be changed | | | |
| Test environment: | Temp.: 23 °C Hun | nid.: 56% Pre | ess.: 101kPa | | | |
| Test Instruments: | Refer to section 5.7 for detail | ls | • | | | |
| Test mode: | Refer to section 5.3 for details | | | | | |
| Test results: | Pass | Pass | | | | |



Measurement data:

Line:



Trace: 7

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

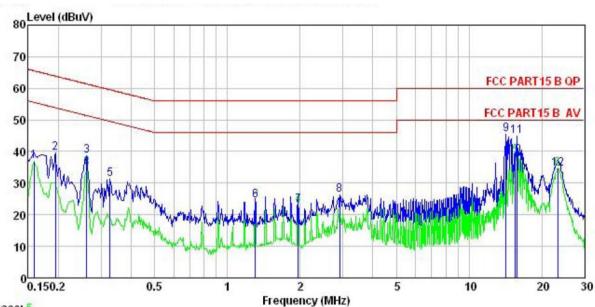
EUT : Tablet PC . imi-10 Plus
Test Mode : PC mode
Power Rating : AC120/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: MT
Remark :

| emark | • | Read | LISN | Cable | | Limit | Over | |
|--------------------------------------|--------|-------|-----------|-------|-------|-------|-----------|---------|
| | Freq | Level | Factor | Loss | Level | Line | Limit | Remark |
| | MHz | dBu₹ | <u>dB</u> | ₫B | dBu₹ | dBu₹ | <u>dB</u> | |
| 1 | 0.158 | 29.26 | 0.14 | 10.78 | 40.18 | 65.56 | -25.38 | QP |
| 2 3 4 5 6 7 8 9 | 0.158 | 24.55 | 0.14 | 10.78 | 35.47 | 55.56 | -20.09 | Average |
| 3 | 0.262 | 25.74 | 0.16 | 10.75 | 36.65 | 61.38 | -24.73 | QP |
| 4 | 0.262 | 21.00 | 0.16 | 10.75 | 31.91 | 51.38 | -19.47 | Average |
| 5 | 0.389 | 19.54 | 0.23 | 10.72 | 30.49 | 58.08 | -27.59 | QP |
| 6 | 4.180 | 17.57 | 0.34 | 10.88 | 28.79 | 46.00 | -17.21 | Average |
| 7 | 9.913 | 22.74 | 0.30 | 10.93 | 33.97 | 60.00 | -26.03 | QP |
| 8 | 10.072 | 20.57 | 0.30 | 10.94 | 31.81 | 50.00 | -18.19 | Average |
| 9 | 16.312 | 31.66 | 0.28 | 10.91 | 42.85 | 60.00 | -17.15 | QP |
| 10 | 16.750 | 28.17 | 0.28 | 10.91 | 39.36 | 50.00 | -10.64 | Average |
| 11 | 22.896 | 26.99 | 0.35 | 10.89 | 38.23 | 60.00 | -21.77 | QP |
| 12 | 23.263 | 23.70 | 0.35 | 10.89 | 34.94 | 50.00 | -15.06 | Average |

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



Neutral:



Trace: 5

Site

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

: Tablet PC : IMT-10 Plus EUT Model Test Mode : PC mode
Power Rating : AC120/60Hz
Environment : Temp: 23 C Huni:56% Atmos:101KPa

Test Engineer: MT

Remark

| | Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|------------------|--------|---------------|----------------|---------------|-------|---------------|---------------|---------|
| _ | MHz | dBu∜ | <u>dB</u> | <u>d</u> B | dBu∜ | dBu∜ | <u>dB</u> | |
| 1 | 0.158 | 25.95 | 0.13 | 10.78 | 36.86 | 55.56 | -18.70 | Average |
| 2 | 0.194 | 28.78 | 0.15 | 10.76 | 39.69 | 63.84 | -24.15 | QP |
| 1 2 3 | 0.262 | 27.74 | 0.18 | 10.75 | 38.67 | 61.38 | -22.71 | QP |
| 4 | 0.262 | 24.05 | 0.18 | 10.75 | 34.98 | 51.38 | -16.40 | Average |
| 5 | 0.327 | 20.25 | 0.20 | 10.73 | 31.18 | 59.53 | -28.35 | QP |
| 6 | 1.303 | 13.45 | 0.26 | 10.90 | 24.61 | 46.00 | -21.39 | Average |
| 4 5 6 7 | 1.959 | 11.71 | 0.26 | 10.96 | 22.93 | 46.00 | -23.07 | Average |
| 8 | 2.915 | 15.19 | 0.30 | 10.92 | 26.41 | 56.00 | -29.59 | QP |
| 8 | 14.213 | 34.32 | 0.26 | 10.91 | 45.49 | 60.00 | -14.51 | QP |
| 10 | 15.552 | 27.47 | 0.26 | 10.90 | 38.63 | 50.00 | -11.37 | Average |
| 11 | 15.801 | 33.71 | 0.26 | 10.91 | 44.88 | | -15.12 | |
| 12 | 23.263 | 23.42 | 0.25 | 10.89 | 34.56 | | | 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

| 0.2 Radiated Elliission | | | | | | | | |
|-------------------------|-----------------------------------|--|--------|-----------------------------|---|---------|----------------------------|--|
| Test Requirement: | FCC Part 15 B Section 15.109 | | | | | | | |
| Test Method: | ANSI C63.4:2014 | | | | | | | |
| Test Frequency Range: | 30MHz to 26000 | OMHz | | | | | | |
| Test site: | Measurement D | istance: | 3m (Se | mi-Anechoi | c Chan | nber) |) | |
| Receiver setup: | Frequency Detector RBW VBW Remark | | | | | | | |
| · | 30MHz-1GHz Quasi- | | | 120kHz 300k | | | Quasi-peak Value | |
| | Above 1GHz | Pe | | 1MHz | 3MF 3MF | | Peak Value | |
| 119 | | RM | | IS 1MHz Limit (dBuV/m @3 | | IZ I | Average Value | |
| Limit: | Frequenc 30MHz-88M | | Limit | 40.0 | 23m) | | Remark Quasi-peak Value | |
| | 88MHz-216M | | | 43.5 | | | Quasi-peak Value | |
| | 216MHz-960 | | | 46.0 | | | Quasi-peak Value | |
| | 960MHz-1G | | | 54.0 | | | Quasi-peak Value | |
| | Above 1GI | | | | | | Average Value | |
| | Above 1GI | 72 | | 74.0 | | | Peak Value | |
| Test setup: | EUT | 4m 4m km | | 3m | Antenna Searc Antenn RF Test Receiver - Horn Antenn | h h na | intenna Tower | |
| | Ground Reference Plane | | | | | | | |





| Test Procedure: | 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. 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.: 25 °C Humid.: 55% Press.: 1 01kPa | | | | | | | |
| Test Instruments: | Refer to section 5.7 for details | | | | | | | |
| Test mode: | Refer to section 5.3 for details | | | | | | | |
| Test results: | Passed | | | | | | | |
| Remark: | All of the observed value above 6GHz ware the niose floor , which were no recorded | | | | | | | |

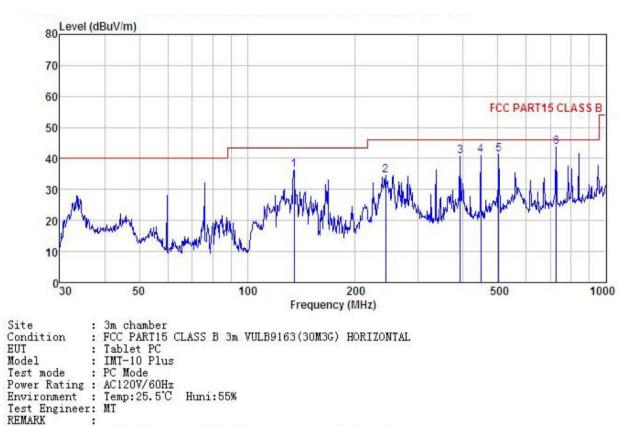




Measurement Data:

Below 1GHz

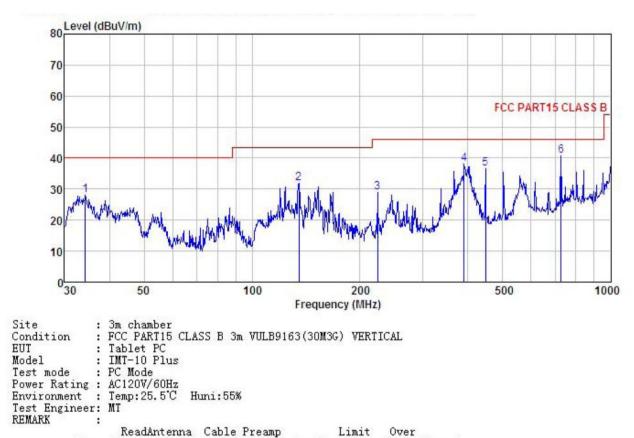
Horizontal:



| EMARK | : | | | 2.00 | | | | | |
|-------|---------|-------|-------------------|------|-----------|---------------------|---------------------|---------------|----|
| | Freq | | Antenna Factor | | | | Limit Line | Over Limit | |
| - | MHz | dBu₹ | dB/m | dB | <u>dB</u> | $\overline{dBuV/m}$ | $\overline{dBuV/m}$ | <u>dB</u> | |
| 1 | 135.032 | 51.25 | 11.98 | 2.34 | 29.30 | 36.27 | 43.50 | -7.23 | QP |
| 2 | 243.377 | 48.60 | 11.84 | 2.82 | 28.58 | 34.68 | 46.00 | -11.32 | QP |
| 3 | 392.095 | 50.73 | 15.65 | 3.08 | 28.75 | 40.71 | 46.00 | -5.29 | QP |
| 4 | 447.982 | 50.66 | 16.19 | 3.20 | 28.87 | 41.18 | 46.00 | -4.82 | QP |
| 5 | 502.940 | 49.78 | 16.86 | 3.64 | 28.96 | 41.32 | 46.00 | -4.68 | QP |
| 6 | 726.805 | 48.22 | 19.84 | 4.28 | 28.57 | 43.77 | 46.00 | -2.23 | QP |



Vertical:

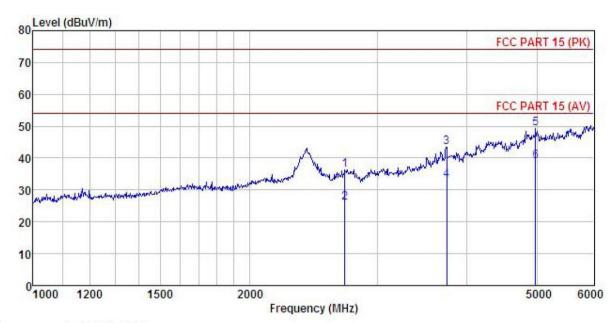


| rumm. | | | | | | | | | |
|-------|---------|-------|-------------------------------|------------|-------|---------------------|---------------------|---------------|--------|
| | | | Antenna Factor | | | | | Over Limit | Remark |
| - | MHz | dBu∜ | $-\overline{dB}/\overline{m}$ | <u>d</u> B | dB | $\overline{dBuV/m}$ | $\overline{dBuV/m}$ | dB | |
| 1 | 34.276 | 42.68 | 14.37 | 1.04 | 29.95 | 28.14 | 40.00 | -11.86 | QP |
| 2 | 135.032 | 46.91 | 11.98 | 2.34 | 29.30 | 31.93 | 43.50 | -11.57 | QP |
| 2 3 4 | 223.733 | 43.22 | 11.53 | 2.84 | 28.69 | 28.90 | 46.00 | -17.10 | QP |
| 4 | 390.723 | 48.08 | 15.59 | 3.08 | 28.74 | 38.01 | 46.00 | -7.99 | QP |
| 5 | 447.982 | 46.01 | 16.19 | 3.20 | 28.87 | 36.53 | 46.00 | -9.47 | QP |
| 6 | 726.805 | 45.10 | 19.84 | 4.28 | 28.57 | 40.65 | 46.00 | -5.35 | QP |
| | | | | | | | | | |



Above 1GHz

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL

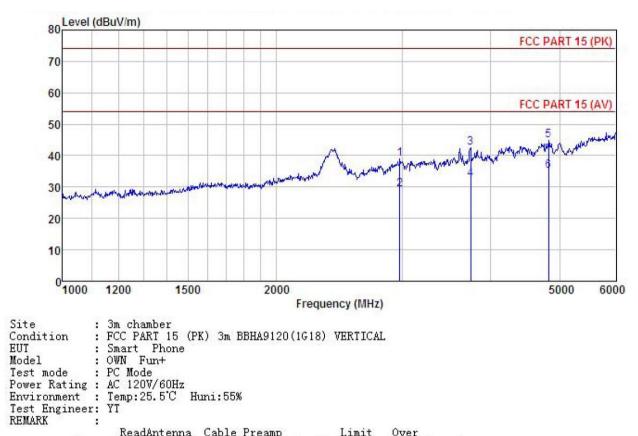
: FCC PART 15 (PK) 3m B
EUT : Smart Phone
Model : OWN Fun+
Test mode : PC Mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: YT
REMARK :

| Over |
|-----------------------------|
| Over Limit Remark |
| |
| 37.72 Peak |
| 27.95 Average |
| 30.53 Peak |
| 21.04 Average |
| 24.78 Peak 14.94 Average |
| 322 |





Vertical:



| ALAIN! | K : | | | | | | | | |
|--------|----------|-------|---------|-------|--------|--------|--------|-----------|---------|
| | F | | Antenna | | | | Limit | Over | D1- |
| | rreq | rever | Factor | Loss | ractor | rever | Line | Limit | Kemark |
| | MHz | dBu∜ | _dB/m | ₫B | d₿ | dBuV/m | dBuV/m | <u>dB</u> | |
| 1 | 2979.202 | 46.07 | 25.54 | 7.79 | 40.54 | 38.86 | 74.00 | -35.14 | Peak |
| 2 | 2979.202 | 36.51 | 25.54 | 7.79 | 40.54 | 29.30 | 54.00 | -24.70 | Average |
| 3 | 3748.190 | 43.81 | 30.10 | 9.21 | 40.52 | 42.60 | 74.00 | -31.40 | Peak |
| 4 | 3748.190 | 33.68 | 30.10 | 9.21 | 40.52 | 32.47 | 54.00 | -21.53 | Average |
| 5 | 4827.078 | 38.37 | 36.12 | 10.60 | 40.22 | 44.87 | 74.00 | -29.13 | Peak |
| 6 | 4827,078 | 28.54 | 36.12 | 10.60 | 40, 22 | 35, 04 | 54.00 | -18.96 | Average |