Report No:CCIS15110096604

# **FCC REPORT**

Applicant: Grand Electronics, INC

Address of Applicant: 11650 Brentcross Dr Tomball, TX 77377 ,United States

### **Equipment Under Test (EUT)**

Product Name: tablet

Model No.: Air7, A7, Air7s, Air7pro, Air7ultra, X7s

Trade mark: NeuTab

FCC ID: 2AGNKAIR7

Applicablestandards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 15 Dec., 2015

**Date of Test:** 15 Dec., to 30 Dec., 2015

Date of report issued: 31 Dec., 2015

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 CCISproduct 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., 2015 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

| Tested by: | >leven Ciu    | Date: | 31 Dec., 2015 |
|------------|---------------|-------|---------------|
|            | Test Engineer |       |               |

Reviewed by: Over Chen Date: 31 Dec., 2015





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# 4 Test Summary

| Test Item          | Section in CFR 47 | Result |  |
|--------------------|-------------------|--------|--|
| Conducted Emission | Part15.107        | Pass   |  |
| Radiated Emission  | Part15.109        | Pass   |  |

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



### 5 General Information

### 5.1 Client Information

| Applicant:               | Grand Electronics, INC                                                                                 |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| Address of Applicant:    | 11650 BrentcrossDr Tomball, TX 77377,United States                                                     |
| Manufacturer:            | GRAND ELECTRI-TECH GLOBAL TRADING LIMITED                                                              |
| Address of Manufacturer: | UNIT 04, 7/F, BRIGHT WAY TOWER, NO. 33 MONG KOK ROAD, KOWLOON, HK.                                     |
| Factory:                 | SHENZHEN CHAOMING INDUSTRIAL CO.,LTD.                                                                  |
| Address of Factory:      | Fl.4, Block 1, Yu Jing Tai Industrial Park, Huarong Rd., Dalang,<br>Longhua, Bao'an District, Shenzhen |

# 5.2 General Description of E.U.T.

| Product Name: | tablet                                                                                                                                                                                                     |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model No.:    | Air7, A7, Air7s, Air7pro, Air7ultra, X7s                                                                                                                                                                   |
| Power supply: | Rechargeable Li-ion Battery DC3.7V-3000mAh                                                                                                                                                                 |
| AC adapter :  | Model: HT-003-050200<br>Input:100-240V AC,50/60Hz<br>Output:5V DC MAX2000mA                                                                                                                                |
| Remark:       | The model No.: Air7, A7, Air7s, Air7pro, Air7ultra, X7swere identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being different Model name. |

### 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        |
| 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.



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### 5.4 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        |
| MERCURY      | Wireless router    | MW150R 12922104015 |               | FCC ID     |
| NAKAMICHI    | Bluetooth earphone | T8                 | N/A           | FCC ID     |

### 5.5 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.

# 5.6 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



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# 5.7 Test Instruments list

| Radiated Emission: |                                 |                                   |                        |          |                         |                             |  |  |  |
|--------------------|---------------------------------|-----------------------------------|------------------------|----------|-------------------------|-----------------------------|--|--|--|
| Item               | Test Equipment                  | Manufacturer                      | Manufacturer Model No. |          | Cal. Date<br>(mm-dd-yy) | Cal. Due date<br>(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 | 03-28-2015              | 03-28-2016                  |  |  |  |
| 3                  | Horn Antenna                    | SCHWARZBECK                       | BBHA9120D              | CCIS0006 | 03-28-2015              | 03-28-2016                  |  |  |  |
| 4                  | Pre-amplifier<br>(10kHz-1.3GHz) | HP                                | 8447D                  | CCIS0003 | 04-01-2015              | 03-31-2016                  |  |  |  |
| 5                  | Pre-amplifier<br>(1GHz-18GHz)   | Compliance Direction Systems Inc. | PAP-1G18               | CCIS0011 | 04-01-2015              | 03-31-2016                  |  |  |  |
| 6                  | Spectrum analyzer<br>9k-30GHz   | Rohde & Schwarz                   | FSP30                  | CCIS0023 | 03-28-2015              | 03-28-2016                  |  |  |  |
| 7                  | EMI Test Receiver               | Rohde & Schwarz                   | ESRP7                  | CCIS0167 | 03-28-2015              | 03-28-2016                  |  |  |  |

| Conducted Emission: |                   |                    |                       |                  |                        |                            |  |  |  |
|---------------------|-------------------|--------------------|-----------------------|------------------|------------------------|----------------------------|--|--|--|
| Item                | Test Equipment    | Manufacturer       | Model No.             | Inventory<br>No. | Cal.Date<br>(mm-dd-yy) | Cal.Due date<br>(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         | 03-28-2015             | 03-28-2016                 |  |  |  |
| 3                   | LISN              | CHASE              | MN2050D               | CCIS0074         | 03-28-2015             | 03-28-2016                 |  |  |  |
| 4                   | Coaxial Cable     | CCIS               | N/A                   | CCIS0086         | 04-01-2015             | 03-31-2016                 |  |  |  |



# 6 Test results and Measurement Data

# **6.1 Conducted Emission**

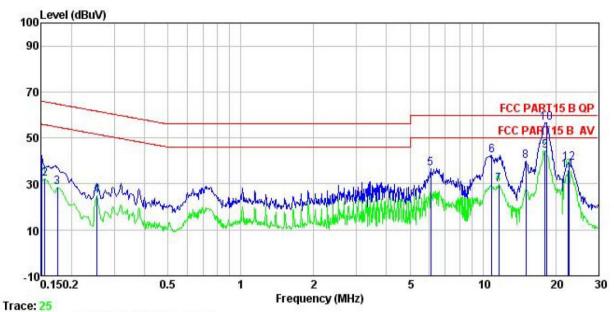
| 0.1 | Jonauciea Emissio     |                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                             |                                                                                                                                                              |  |  |  |
|-----|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
|     | Test Requirement:     | FCC Part15 B Section 15.10                                                                                                                                                                                                                                                                                                               | 7                                                                                                                                                                           |                                                                                                                                                              |  |  |  |
|     | Test Method:          | ANSI C63.4:2009                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                             |                                                                                                                                                              |  |  |  |
|     | Test Frequency Range: | 150kHz to 30MHz                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                             |                                                                                                                                                              |  |  |  |
|     | Class / Severity:     | Class B                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                             |                                                                                                                                                              |  |  |  |
|     | Receiver setup:       | RBW=9kHz, VBW=30kHz                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                             |                                                                                                                                                              |  |  |  |
|     | Limit:                |                                                                                                                                                                                                                                                                                                                                          | Lim                                                                                                                                                                         | it (dΒμV)                                                                                                                                                    |  |  |  |
|     |                       | 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                                                                                                                                                           |  |  |  |
|     | Test setup:           | * Decreases with the logarith                                                                                                                                                                                                                                                                                                            | m of the frequency.                                                                                                                                                         |                                                                                                                                                              |  |  |  |
|     | Test procedure        | AUX Equipment  Test table/Insulation plane  Remark: E.U.T. Equipment Under Test LISN. Line impedence Stabilization Network Test table height=0.8m                                                                                                                                                                                        |                                                                                                                                                                             |                                                                                                                                                              |  |  |  |
|     | rest procedure        | <ol> <li>The E.U.T and simulators line impedance stabilization 500hm/50uH coupling impedance.</li> <li>The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs).</li> <li>Both sides of A.C. line are interference. In order to fir positions of equipment and according to ANSI C63.4:</li> </ol> | on network(L.I.S.N.). bedance for the meast also connected to to the block diagrar as to the block diagrar as the checked for maximal the maximum emid all of the interface | The provide a suring equipment. the main power through mpedance with 500hm m of the test setup and turn conducted ssion, the relative cables must be changed |  |  |  |
|     | Test environment:     | Temp.: 23°C Hum                                                                                                                                                                                                                                                                                                                          | nid.: 56%                                                                                                                                                                   | Press.: 101kPa                                                                                                                                               |  |  |  |
|     | Measurement Record:   | , , , , , , , , , , , , , , , , , , ,                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                             | Uncertainty: ±3.28dB                                                                                                                                         |  |  |  |
|     | Test Instruments:     | Refer to section 5.7 for detail                                                                                                                                                                                                                                                                                                          | ls                                                                                                                                                                          | <u>-</u>                                                                                                                                                     |  |  |  |
|     | Test mode:            | Refer to section 5.3 for detail                                                                                                                                                                                                                                                                                                          | ls                                                                                                                                                                          |                                                                                                                                                              |  |  |  |
|     | Test results:         | Pass                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                             |                                                                                                                                                              |  |  |  |





### Measurement data:

Line:



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

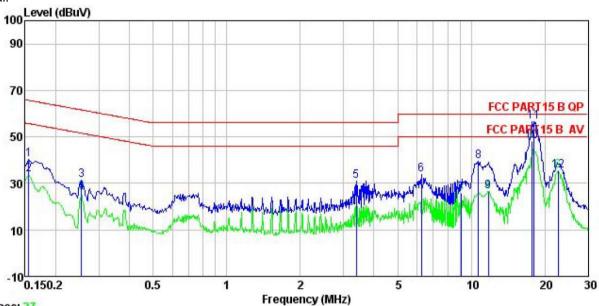
: Tablet EUT Test Mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: STEVEN
Remark :

| Remark                                    | :      |       |            |       |       |       |           |         |
|-------------------------------------------|--------|-------|------------|-------|-------|-------|-----------|---------|
|                                           |        | Read  | LISN       | Cable |       | Limit | Over      |         |
|                                           | Freq   | Level | Factor     | Loss  | Level | Line  | Limit     | Remark  |
|                                           | MHz    | dBu∀  | <u>d</u> B | dB    | dBu₹  | dBu√  | <u>ab</u> |         |
| 1                                         | 0.150  | 31.46 | 0.27       | 10.78 | 42.51 | 66.00 | -23.49    | QP      |
| 2                                         | 0.155  | 21.25 | 0.27       | 10.78 | 32.30 | 55.74 | -23.44    | Average |
| 3                                         | 0.175  | 17.32 | 0.27       | 10.77 | 28.36 |       |           | Average |
| 4                                         | 0.255  | 13.92 | 0.27       | 10.75 | 24.94 | 51.60 | -26.66    | Average |
| 5                                         | 6.089  | 25.68 | 0.31       | 10.82 | 36.81 | 60.00 | -23.19    | QP      |
| 6                                         | 10.905 | 31.06 | 0.31       | 10.93 | 42.30 | 60.00 | -17.70    | QP      |
| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9 | 11.621 | 18.60 | 0.31       | 10.92 | 29.83 | 50.00 | -20.17    | Average |
| 8                                         | 15.066 | 28.82 | 0.32       | 10.90 | 40.04 | 60.00 | -19.96    | QP      |
| 9                                         | 18.039 | 33.33 | 0.33       | 10.90 | 44.56 | 50.00 | -5.44     | Average |
| 10                                        | 18.328 | 45.48 | 0.33       | 10.91 | 56.72 | 60.00 | -3.28     | QP      |
| 11                                        | 22.535 | 24.49 | 0.44       | 10.89 | 35.82 | 50.00 | -14.18    | Average |
| 12                                        | 22.655 | 27.64 | 0.44       | 10.89 | 38.97 | 60.00 | -21.03    | QP      |





#### Neutral:



Trace: 27

Site

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

EUT : Tablet Model : Air7 Test Mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: STEVEN

Remark

| Comarn                | Freq   | Read<br>Level | LISN<br>Factor | Cable<br>Loss | Level | Limit<br>Line | Over<br>Limit | Remark  |
|-----------------------|--------|---------------|----------------|---------------|-------|---------------|---------------|---------|
|                       | MHz    | ₫₿u₹          | dB             | dB            | dBu₹  | dBu∀          | <u>dB</u>     |         |
| 1                     | 0.155  | 29.12         | 0.25           | 10.78         | 40.15 | 65.74         | -25.59        | QP      |
| 1<br>2<br>3           | 0.155  | 22.79         | 0.25           | 10.78         | 33.82 | 55.74         | -21.92        | Average |
|                       | 0.255  | 20.45         | 0.26           | 10.75         | 31.46 | 61.60         | -30.14        | QP      |
| 4<br>5<br>6<br>7<br>8 | 0.255  | 15.07         | 0.26           | 10.75         | 26.08 | 51.60         | -25.52        | Average |
| 5                     | 3.381  | 19.64         | 0.29           | 10.91         | 30.84 | 56.00         | -25.16        | QP      |
| 6                     | 6.252  | 22.83         | 0.27           | 10.81         | 33.91 | 60.00         | -26.09        | QP      |
| 7                     | 9.059  | 14.71         | 0.25           | 10.90         | 25.86 | 50.00         | -24.14        | Average |
| 8                     | 10.676 | 28.46         | 0.25           | 10.93         | 39.64 |               | -20.36        |         |
| 9                     | 11.745 | 15.55         | 0.25           | 10.92         | 26.72 | 50.00         | -23.28        | Average |
| 10                    | 17.755 | 36.94         | 0.26           | 10.90         | 48.10 | 50.00         | -1.90         | Average |
| 11                    | 18.039 | 45.34         | 0.26           | 10.90         | 56.50 | 60.00         | -3.50         | QP      |
| 12                    | 22.655 | 24.20         | 0.38           | 10.89         | 35.47 | 50.00         | -14.53        | Average |

#### Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.





### 6.2 Radiated Emission

| 6.2 Radiated Emission |                                                                                               |                                                  |        |              |        |    |                         |  |  |
|-----------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------|--------|--------------|--------|----|-------------------------|--|--|
| Test Requirement:     | FCC Part15 B Section 15.109                                                                   |                                                  |        |              |        |    |                         |  |  |
| Test Method:          | ANSI C63.4:2009                                                                               |                                                  |        |              |        |    |                         |  |  |
| Test Frequency Range: | 30MHz to 6000MHz                                                                              |                                                  |        |              |        |    |                         |  |  |
| Test site:            | Measurement D                                                                                 | Measurement Distance: 3m (Semi-Anechoic Chamber) |        |              |        |    |                         |  |  |
| Receiver setup:       | Frequency                                                                                     | Dete                                             | ctor   | tor RBW VB\  |        |    | V Remark                |  |  |
|                       | 30MHz-1GHz                                                                                    | Quasi-                                           |        | 120kHz 300k  |        |    | Quasi-peak Value        |  |  |
|                       | Above 1GHz                                                                                    | Pe:<br>RM                                        |        | 1MHz<br>1MHz | 3MF    |    |                         |  |  |
| Limit:                | Frequenc                                                                                      |                                                  |        | (dBuV/m @    |        | 12 | Average Value<br>Remark |  |  |
| Littit.               | 30MHz-88M                                                                                     | •                                                | Liiiii | 40.0         | 20111) | (  | Quasi-peak Value        |  |  |
|                       | 88MHz-216N                                                                                    |                                                  |        | 43.5         |        |    | Quasi-peak Value        |  |  |
|                       | 216MHz-960                                                                                    |                                                  |        | 46.0         |        |    | Quasi-peak Value        |  |  |
|                       | 960MHz-1G                                                                                     |                                                  |        | 54.0         |        |    | Quasi-peak Value        |  |  |
|                       |                                                                                               |                                                  |        | 54.0         |        |    | Average Value           |  |  |
|                       | Above 1GI                                                                                     | Ηz                                               |        | 74.0         |        |    | Peak Value              |  |  |
| Test setup:           | Below 1GHz                                                                                    |                                                  |        |              |        |    |                         |  |  |
|                       | Search Antenna  RF Test Receiver  Turn Table 0.8m Im A                                        |                                                  |        |              |        |    |                         |  |  |
|                       | Above 1GHz                                                                                    |                                                  |        |              |        |    |                         |  |  |
|                       | Horn Anlenna Tower  AE EUT  Ground Reference Plane  Test Receiver  Pre-  Amplifier Controller |                                                  |        |              |        |    |                         |  |  |





| Test Procedure:     | <ol> <li>The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower.</li> </ol> |  |  |  |  |  |  |  |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|
|                     | 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 thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatabletable 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 SpecifiedBandwidth 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.: 101kPa                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |
| Measurement Record: | Uncertainty: ±4.88dB                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  |
| Test Instruments:   | Refer to section 5.7 for details                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |
| Test mode:          | Refer to section 5.3 for details                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |  |
| Test results:       | Passed                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |  |  |  |  |

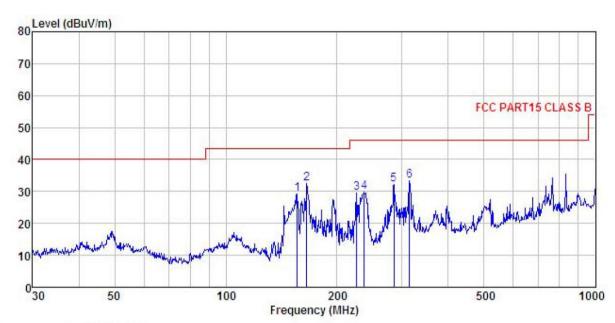




### **Measurement Data**

#### **Below 1GHz**

Horizontal:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL Condition

EUT : Tablet Model : Air7 Test mode : PC mode Power Rating : AC 120V/60Hz

Environment: Temp: 25.5°C Huni: 55%

Test Engineer: steven

Remark

23

4

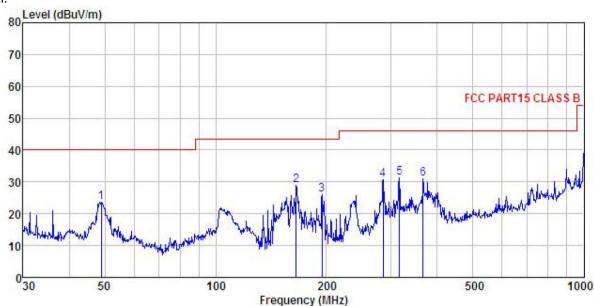
5

ReadAntenna Cable Preamp Limit Over Freq Level Factor Loss Factor Level Line Limit Remark MHz dBuV dB/m ďΒ dB dBuV/m dBuV/m dB 155.910 8.51 1.33 29.17 29.18 43.50 -14.32 QP 48.51 1.34 29.09 32.57 43.50 -10.93 QP 46.00 -16.52 QP 165.487 8.82 51.50 29.48 1.51 28.67 226.099 45.18 11.46 46.00 -16.26 QP 236.645 44.86 11.93 1.56 28.61 29.74 12.75 13.26 46.00 -13.85 QP 46.00 -12.77 QP 284.977 46.15 1.73 28.48 32.15 28.48 314.377 33.23 46.63 1.82





#### Vertical:



: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL Condition

: Tablet EUT Model : Air7 Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: steven

Remark

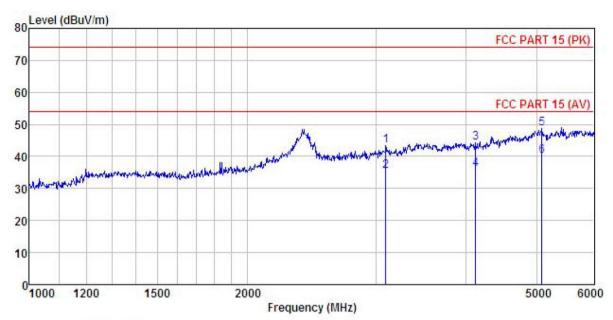
|                       | Freq    |       | Intenna<br>Factor |      |            |                     |                     |            | Remark |  |
|-----------------------|---------|-------|-------------------|------|------------|---------------------|---------------------|------------|--------|--|
| _                     | MHz     | −dBuV | dB/m              |      | <u>d</u> B | $\overline{dBuV/m}$ | $\overline{dBuV/m}$ | <u>d</u> B |        |  |
| 1                     | 48.843  | 39.64 | 13.32             | 0.60 | 29.83      | 23.73               | 40.00               | -16.27     | QP     |  |
| 2                     | 165.487 | 47.97 | 8.82              | 1.34 | 29.09      | 29.04               | 43.50               | -14.46     | QP     |  |
| 3                     | 194.453 | 42.83 | 10.56             | 1.37 | 28.87      | 25.89               | 43.50               | -17.61     | QP     |  |
| 1<br>2<br>3<br>4<br>5 | 284.977 | 44.56 | 12.75             | 1.73 | 28.48      | 30.56               | 46.00               | -15.44     | QP     |  |
| 5                     | 315.481 | 44.71 | 13.28             | 1.82 | 28.49      | 31.32               | 46.00               | -14.68     | QP     |  |
| 6                     | 365.539 | 43.26 | 14.48             | 2.00 | 28.63      | 31.11               | 46.00               | -14.89     | QP     |  |





#### **Above 1GHz**

Horizontal:



Site

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

EUT : Tablet Model : Air7 Test mode : PC mode Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

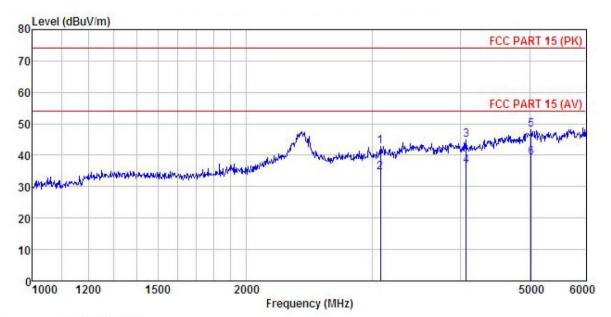
Test Engineer: steven Remark :

| emarr | :        |       |                   |           |           |                     |               |               |         |
|-------|----------|-------|-------------------|-----------|-----------|---------------------|---------------|---------------|---------|
|       | Freq     |       | Antenna<br>Factor |           |           |                     | Limit<br>Line | Over<br>Limit | Remark  |
|       | MHz      | dBu₹  | dB/m              | <u>dB</u> | <u>dB</u> | $\overline{dBuV/m}$ | dBuV/m        | <u>dB</u>     |         |
| 1     | 3097.515 | 47.24 | 28.70             | 8.02      | 40.61     | 43.35               | 74.00         | -30.65        | Peak    |
| 2     | 3097.515 | 39.17 | 28.70             | 8.02      | 40.61     | 35.28               | 54.00         | -18.72        | Average |
| 3     | 4118.504 | 45.39 | 30.06             | 9.77      | 41.04     | 44.18               | 74.00         | -29.82        | Peak    |
| 4     | 4118.504 | 37.11 | 30.06             | 9.77      | 41.04     | 35.90               | 54.00         | -18.10        | Average |
|       | 5088.167 | 45.81 | 32.06             | 10.89     | 40.03     | 48.73               | 74.00         | -25.27        | Peak    |
| 6     | 5088.167 | 37.15 | 32.06             | 10.89     | 40.03     | 40.07               | 54.00         | -13.93        | Average |
|       |          |       |                   |           |           |                     |               |               |         |





#### Vertical:



Site

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

EUT : Tablet Model : Air7
Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: steven

Rema

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| ari | ζ :      |       |                               |       |           |                     |                     |            |         |  |
|-----|----------|-------|-------------------------------|-------|-----------|---------------------|---------------------|------------|---------|--|
|     |          | Read  | Antenna                       | Cable | Preamp    |                     | Limit               | Over       |         |  |
|     | Freq     | Level | Factor                        | Loss  | Factor    | Level               | Line                | Limit      | Remark  |  |
| -   | MHz      | dBu∇  | $-\overline{dB}/\overline{m}$ |       | <u>dB</u> | $\overline{dBuV/m}$ | $\overline{dBuV/m}$ | <u>d</u> B |         |  |
|     | 3086.435 | 46.82 | 28.68                         | 8.00  | 40.61     | 42.89               | 74.00               | -31.11     | Peak    |  |
| )   | 3086.435 | 38.42 | 28.68                         | 8.00  | 40.61     | 34.49               | 54.00               | -19.51     | Average |  |
| }   | 4074.465 | 46.33 | 29.99                         | 9.71  | 41.07     | 44.96               | 74.00               | -29.04     | Peak    |  |
|     | 4074.465 | 37.89 | 29.99                         | 9.71  | 41.07     | 36.52               | 54.00               | -17.48     | Average |  |
| ,   | 5024.748 | 45.48 | 31.90                         | 10.82 | 40.00     | 48.20               | 74.00               | -25.80     | Peak    |  |
| ;   | 5024.748 | 36.58 | 31.90                         | 10.82 | 40.00     | 39.30               | 54.00               | -14.70     | Average |  |