

# Global United Technology Services Co., Ltd.

Report No.: GTSE15080156405

# **FCC Report**

Yuko Technology Co., Ltd. Applicant:

6th Floor, A9 building, TianRui Industrial Park, FuYuan 1st **Address of Applicant:** 

Road, FuYong Town, Bao'an District, ShenZhen

**Equipment Under Test (EUT)** 

**Product Name:** 8" tablet PC Model No.: S853G, U807G FCC ID: 2ADQN-S853G

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart B:2014

Date of sample receipt: August 24, 2015

**Date of Test:** August 24-28, 2015

Date of report issue: September 01, 2015

Test Result: PASS \*

Authorized Signature:



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 GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



### 2 Version

| Version No. | Date               | Description |
|-------------|--------------------|-------------|
| 00          | September 01, 2015 | Original    |
|             |                    |             |
|             |                    |             |
|             |                    |             |
|             |                    |             |

| Prepared By: | Edward.Pan       | Date: | September 01, 2015 |
|--------------|------------------|-------|--------------------|
|              | Project Engineer |       |                    |
| Check By:    | hank. yan        | Date: | September 01, 2015 |
|              | Reviewer         |       |                    |



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### 4 Test Summary

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

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



### 5 General Information

### 5.1 Client Information

| Applicant:               | Yuko Technology Co., Ltd.  |  |
|--------------------------|--|--|
| Address of Applicant:    | 6th Floor, A9 building, TianRui Industrial Park, FuYuan 1st Road, FuYong Town,Bao'an District,ShenZhen |  |
| Manufacturer:            | Yuko Technology Co., Ltd.  |  |
| Address of Manufacturer: | 6th Floor, A9 building, TianRui Industrial Park, FuYuan 1st Road, FuYong Town,Bao'an District,ShenZhen |  |

### 5.2 General Description of EUT

| Product Name: | 8" tablet PC                       |
|---------------|------------------------------------|
| Model No.:    | S853G, U807G                       |
| Power supply: | Adapter:                           |
|               | Model No.: K-E30502000U1           |
|               | Input: AC 100-240V, 50/60Hz, 0.35A |
|               | Output: DC 5.0V, 2.0A              |
|               | or                                 |
|               | DC 3.8V Li-ion Battery             |

### 5.3 Test mode

| Test mode:   |                                       |
|--------------|---------------------------------------|
| Playing mode | Keep the EUT in Playing mode          |
| REC mode     | Keep the EUT in video recording mode. |
| PC mode      | Keep the EUT in exchanging data mode. |



### 5.4 Test Facility

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

### • FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen 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 files. Registration 600491, June 28, 2013.

### • Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

### 5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102

Tel: 0755-27798480 Fax: 0755-27798960

### 5.6 Description of Support Units

| Manufacturer | Description | Model     | Serial Number | FCC Approval |
|--------------|-------------|-----------|---------------|--------------|
| Apple        | PC          | A1278     | C1MN99ERDTY3  | DoC          |
| DELTA        | ADAPTER     | ADP-60ADT | N/A           | Verification |
| DELL         | KEYBOARD    | SK-8115   | N/A           | DoC          |
| DELL         | MOUSE       | MOC5UO    | N/A           | DoC          |

### 5.7 Deviation from Standards

Biconical, log.per. antenna and horn antenna were used instead of dipole antenna. Semi-anechoic Chamber was used as alternation of open air test sites, and all test suites were performed with radiated method in it.

### 5.8 Abnormalities from Standard Conditions

None.

### 5.9 Other Information Requested by the Customer

None.

Global United Technology Services Co., Ltd.

Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



## 6 Test Instruments list

| Radia | Radiated Emission:               |                  |                       |                  |                        |                               |  |
|-------|----------------------------------|------------------|-----------------------|------------------|------------------------|-------------------------------|--|
| Item  | Test Equipment                   | Manufacturer     | Model No.             | Inventory<br>No. | Cal.Date<br>(mm-dd-yy) | Cal.Due<br>date<br>(mm-dd-yy) |  |
| 1     | 3m Semi- Anechoic<br>Chamber     | ZhongYu Electron | 9.0(L)*6.0(W)* 6.0(H) | GTS250           | Mar. 27 2015           | Mar. 26 2016                  |  |
| 2     | Control Room                     | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251           | N/A                    | N/A                           |  |
| 3     | ESU EMI Test Receiver            | R&S              | ESU26                 | GTS203           | June 30 2015           | June 29 2016                  |  |
| 4     | BiConiLog Antenna                | SCHWARZBECK      | VULB9163              | GTS214           | June 30 2015           | June 29 2016                  |  |
| 5     | Double -ridged waveguide<br>horn | SCHWARZBECK      | 9120D                 | GTS208           | June 26 2015           | June 25 2016                  |  |
| 6     | RF Amplifier                     | HP               | 8347A                 | GTS204           | June 30 2015           | June 29 2016                  |  |
| 7     | Preamplifier                     | HP               | 8349B                 | GTS206           | June 30 2015           | June 29 2016                  |  |
| 8     | EMI Test Software                | AUDIX            | E3                    | N/A              | N/A                    | N/A                           |  |
| 9     | Coaxial cable                    | GTS              | N/A                   | GTS210           | Mar. 28 2015           | Mar. 27 2016                  |  |
| 10    | Coaxial Cable                    | GTS              | N/A                   | GTS211           | Mar. 28 2015           | Mar. 27 2016                  |  |

| Con  | Conducted Emission:      |                                |                      |                  |                        |                         |  |
|------|--------------------------|--------------------------------|----------------------|------------------|------------------------|-------------------------|--|
| Item | Test Equipment           | Manufacturer                   | Model No.            | Inventory<br>No. | Cal.Date<br>(mm-dd-yy) | Cal.Due date (mm-dd-yy) |  |
| 1    | Shielding Room           | ZhongYu Electron               | 7.0(L)x3.0(W)x3.0(H) | GTS264           | Sep. 07 2013           | Sep. 06 2015            |  |
| 2    | <b>EMI Test Receiver</b> | Rohde & Schwarz                | ESCS30               | GTS223           | June 30 2015           | June 29 2016            |  |
| 3    | 10dB Pulse Limita        | Rohde & Schwarz                | N/A                  | GTS224           | June 30 2015           | June 29 2016            |  |
| 4    | Coaxial Switch           | ANRITSU CORP                   | MP59B                | GTS225           | June 30 2015           | June 29 2016            |  |
| 5    | LISN                     | SCHWARZBECK<br>MESS-ELEKTRONIK | NSLK 8127            | GTS226           | June 30 2015           | June 29 2016            |  |
| 6    | Coaxial Cable            | GTS                            | N/A                  | GTS227           | June 30 2015           | June 29 2016            |  |
| 7    | EMI Test Software        | AUDIX                          | E3                   | N/A              | N/A                    | N/A                     |  |

| Gen  | General used equipment: |              |           |                  |                        |                         |
|------|-------------------------|--------------|-----------|------------------|------------------------|-------------------------|
| Item | Test Equipment          | Manufacturer | Model No. | Inventory<br>No. | Cal.Date<br>(mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1    | Barometer               | ChangChun    | DYM3      | GTS257           | July 07 2015           | July 06 2016            |



## 7 Test Results and Measurement Data

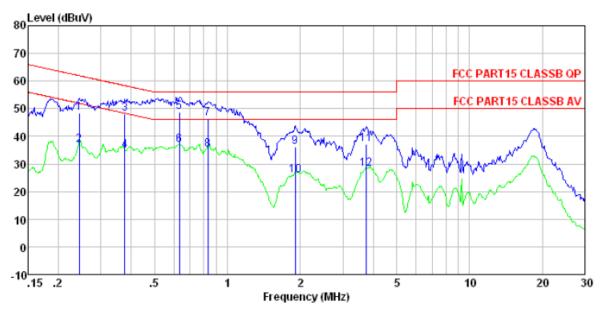
### 7.1 Conducted Emissions

| Test Requirement:     | FCC Part15 B Section 15.107  |                       |                  |  |  |
|-----------------------|--|-----------------------|------------------|--|--|
| Test Method:          | ANSI C63.4:2009  |                       |                  |  |  |
| Test Frequency Range: | 150KHz to 30MHz  |                       |                  |  |  |
| Class / Severity:     | Class B  |                       |                  |  |  |
| Receiver setup:       | RBW=9KHz, VBW=30KHz, Sv  | weep time=auto        |                  |  |  |
| Limit:                | [ [ [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]  | Limit (c              | dBuV)            |  |  |
|                       | Frequency range (MHz)  | Quasi-peak            | Average          |  |  |
|                       | 0.15-0.5   | 66 to 56*             | 56 to 46*        |  |  |
|                       | 0.5-5  | 56                    | 46               |  |  |
|                       | 5-30 * Decreases with the logarithm  | 60                    | 50               |  |  |
| Test setup:           | •  | Tor the frequency.    |                  |  |  |
| rest setup.           | Reference Plane  |                       | -                |  |  |
| Test procedure:       | AUX Filter AC power E.U.T  Remark EUT: Equipment Under Test LISN  Receiver  Remark EUT: Equipment Under Test LISN Line impedence Stabilization Network Test table height=0.8m  |                       |                  |  |  |
| Test procedure:       | The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment.   |                       |                  |  |  |
|                       | <ol> <li>The peripheral devices are<br/>LISN that provides a 50ohn<br/>termination. (Please refer to<br/>photographs).</li> </ol>  | n/50uH coupling imped | dance with 50ohm |  |  |
|                       | 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4:2009 on conducted measurement. |                       |                  |  |  |
| Test Instruments:     | Refer to section 6 for details   |                       |                  |  |  |
| Test mode:            | Pre-scan all modes in section 5.3, so only the data of worst mode was show on the test report.   |                       |                  |  |  |
| Test results:         | Pass   |                       |                  |  |  |



#### **Measurement Data**

### Line:



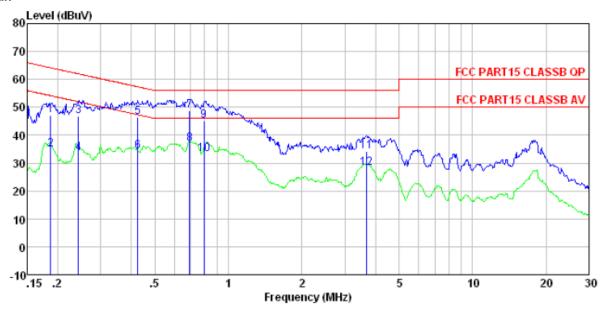
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 1564RF Test mode : PC mode Test Engineer: Song

|        | Freq  | Read<br>Level | LISN<br>Factor | Cable<br>Loss | Level | Limit<br>Line | Over<br>Limit | Remark  |
|--------|-------|---------------|----------------|---------------|-------|---------------|---------------|---------|
|        | MHz   | dBu∀          | dB             | ₫B            | dBu₹  | dBuV          | dB            |         |
| 1      | 0.244 | 48.32         | 0.12           | 0.11          | 48.55 | 61.95         | -13.40        | QP      |
| 2<br>3 | 0.244 | 36.76         | 0.12           | 0.11          | 36.99 | 51.95         | -14.96        | Average |
| 3      | 0.377 | 47.79         | 0.11           | 0.10          | 48.00 | 58.34         | -10.34        | QP      |
| 4      | 0.377 | 34.60         | 0.11           | 0.10          | 34.81 | 48.34         | -13.53        | Average |
| 4<br>5 | 0.634 | 48.58         | 0.13           | 0.13          | 48.84 | 56.00         | -7.16         | QP      |
| 6      | 0.634 | 36.73         | 0.13           | 0.13          | 36.99 | 46.00         | -9.01         | Average |
| 7      | 0.830 | 46.32         | 0.14           | 0.13          | 46.59 | 56.00         | -9.41         | QP      |
| 8      | 0.830 | 35.06         | 0.14           | 0.13          | 35.33 | 46.00         | -10.67        | Average |
| 9      | 1.908 | 35.74         | 0.12           | 0.14          | 36.00 | 56.00         | -20.00        | QP      |
| 10     | 1.908 | 25.64         | 0.12           | 0.14          | 25.90 | 46.00         | -20.10        | Average |
| 11     | 3.759 | 36.67         | 0.19           | 0.15          | 37.01 | 56.00         | -18.99        | QP      |
| 12     | 3.759 | 27.82         | 0.19           | 0.15          | 28.16 | 46.00         | -17.84        | Average |



### Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 1564RF Test mode : PC mode Test Engineer: Song

|                                      | Freq   | Read<br>Level  | LISN<br>Factor   | Cable<br>Loss  | Level  | Limit<br>Line  | Over<br>Limit                                      | Remark                                    |
|--------------------------------------|--|--|--|--|--|--|--|---|
|                                      | MHz  | dBu₹   | dB   | dB   | dBuV   | dBuV   | dB   |   |
| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8 | 0. 187<br>0. 187<br>0. 243<br>0. 243<br>0. 426<br>0. 426<br>0. 694<br>0. 694 | 46. 81<br>34. 65<br>46. 74<br>33. 36<br>46. 44<br>33. 91<br>48. 50<br>36. 76 | 0. 07<br>0. 07<br>0. 06<br>0. 06<br>0. 06<br>0. 06<br>0. 07<br>0. 07 | 0.13<br>0.13<br>0.12<br>0.12<br>0.11<br>0.11<br>0.13<br>0.13 | 47. 01<br>34. 85<br>46. 92<br>33. 54<br>46. 61<br>34. 08<br>48. 70<br>36. 96 | 54. 15<br>62. 00<br>52. 00<br>57. 33<br>47. 33<br>56. 00 | -15. 08<br>-18. 46<br>-10. 72<br>-13. 25<br>-7. 30 | Average<br>QP<br>Average<br>QP<br>Average |
| 9                                    | 0.796  | 45.08  | 0.07   | 0.13   | 45.28  | 56.00  | -10.72   | QP  |
| 10<br>11<br>12                       | 0. 796<br>3. 681<br>3. 681   | 33. 01<br>33. 79<br>28. 02   | 0.07<br>0.14<br>0.14   | 0.13<br>0.15<br>0.15   | 33. 21<br>34. 08<br>28. 31   | 56.00  | -21.92   | Average<br>QP<br>Average                  |

### Notes:

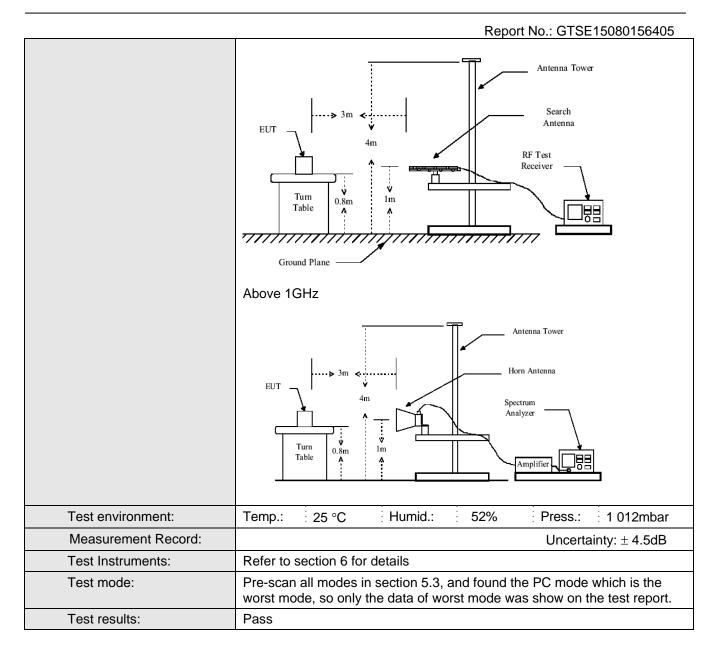
- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



### 7.2 Radiated Emission

| <br>Naulateu Lillission |  |                       |                 |               |                         |  |  |  |
|-------------------------|--|-----------------------|-----------------|---------------|-------------------------|--|--|--|
| Test Requirement:       | FCC Part15 B Section 15.109  |                       |                 |               |                         |  |  |  |
| Test Method:            | ANSI C63.4:2009  |                       |                 |               |                         |  |  |  |
| Test Frequency Range:   | 30MHz to 6GHz  | 30MHz to 6GHz         |                 |               |                         |  |  |  |
| Test site:              | Measurement Distance: 3m (Semi-Anechoic Chamber)   |                       |                 |               |                         |  |  |  |
| Receiver setup:         |  |                       |                 |               |                         |  |  |  |
|                         | Frequency<br>30MHz-  | Detector<br>Quasi-pea | RBW<br>k 120kHz | VBW<br>300kHz | Remark Quasi-peak Value |  |  |  |
|                         | 1GHz   | Quasi-pea             | N 120KIIZ       | JUUNI IZ      | Quasi-peak value        |  |  |  |
|                         | Above 1GHz   | Peak                  | 1MHz            | 3MHz          | Peak Value              |  |  |  |
|                         | 710070 10112   | Peak                  | 1MHz            | 10Hz          | Average Value           |  |  |  |
| Limit:                  |  |                       |                 |               | T                       |  |  |  |
|                         | Freque   | ency                  | Limit (dBuV     | /m @3m)       | Remark                  |  |  |  |
|                         | 30MHz-8  | 88MHz                 | 40.0            | 0             | Quasi-peak Value        |  |  |  |
|                         | 88MHz-2  | 16MHz                 | 43.5            | 0             | Quasi-peak Value        |  |  |  |
|                         | 216MHz-9   |                       | 46.0            | 0             | Quasi-peak Value        |  |  |  |
|                         | 960MHz-  | -1GHz                 | 54.0            | 0             | Quasi-peak Value        |  |  |  |
|                         | Above 1  | IGHz                  | 54.0            | 0             | Average Value           |  |  |  |
|                         | ,  | . 01 12               | 74.0            | 0             | Peak Value              |  |  |  |
| Test Procedure:         | The EUT was placed on the top of a rotating table 0.8 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  |                       |                 |               |                         |  |  |  |
|                         |  |                       |                 |               | ole-height antenna      |  |  |  |
|                         | 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 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.   |                       |                 |               |                         |  |  |  |
|                         | 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 setup:             | Below 1GHz   |                       |                 |               |                         |  |  |  |
|                         |  |                       |                 |               |                         |  |  |  |





### Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

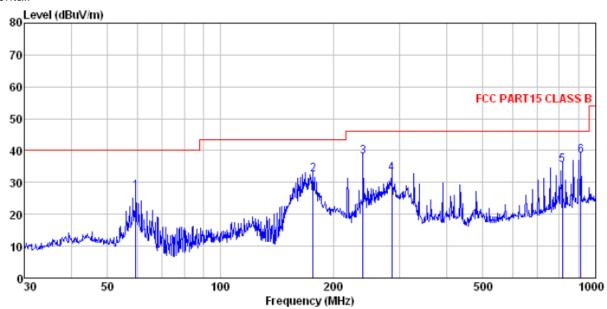
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor



### **Measurement Data**

Below 1GHz

Horizontal:



Site

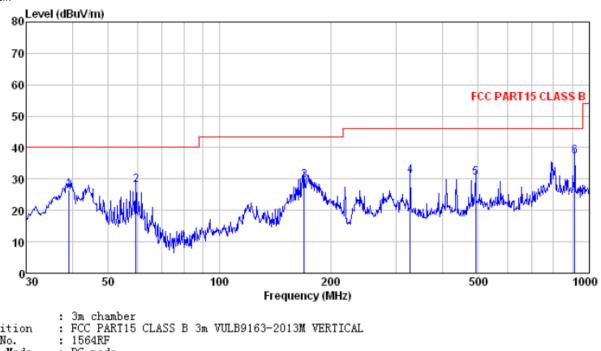
: 3m chamber : FCC PART15 CLASS B 3m VULB9163-2013M HORIZONTAL : 1564RF

Condition Job No. Test Mode : PC mode Test Engineer: Rong

|        | Freq               |      | Antenna<br>Factor |    |                |        |        |    | Remark |
|--------|--------------------|------|-------------------|----|----------------|--------|--------|----|--------|
|        | MHz                | dBu∜ | <u>dB</u> /m      | dB | dB             | dBuV/m | dBuV/m | dB |        |
| 1      | 59.441             |      |                   |    | 29.93          |        |        |    | -      |
| 2      | 176.269<br>239.987 |      |                   |    | 29.29<br>29.56 |        |        |    |        |
| 4<br>5 | 285.978<br>815.968 |      |                   |    | 29.91<br>29.18 |        |        |    |        |
| 6      | 912.862            |      |                   |    | 29.10          |        |        |    |        |



### Vertical:



Site

Condition

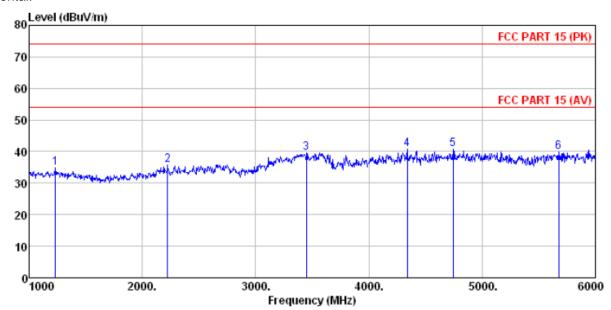
Job No. Test Mode : PC mode Test Engineer: Rong

| 000                        | Freq   | ReadAntenna<br>Level Factor      |                         |                              |  |                                      |                                  | Over<br>Limit                        | Remark               |
|----------------------------|--|----------------------------------|-------------------------|------------------------------|--|--------------------------------------|----------------------------------|--------------------------------------|----------------------|
|                            | MHz  | dBu∜                             | dB/m                    | ₫B                           | dB   | dBuV/m                               | dBuV/m                           | <u>dB</u>                            |                      |
| 1<br>2<br>3<br>4<br>5<br>6 | 39.162<br>59.441<br>169.599<br>327.887<br>492.469<br>912.862 | 42.26<br>46.17<br>42.64<br>37.99 | 14.73<br>10.95<br>15.66 | 0.86<br>1.69<br>2.51<br>3.27 | 30.05<br>29.93<br>29.32<br>29.84<br>29.32<br>29.10 | 27. 92<br>29. 49<br>30. 97<br>30. 33 | 40.00<br>43.50<br>46.00<br>46.00 | -12.08<br>-14.01<br>-15.03<br>-15.67 | QP<br>QP<br>QP<br>QP |



### Above 1GHz

### Horizontal:



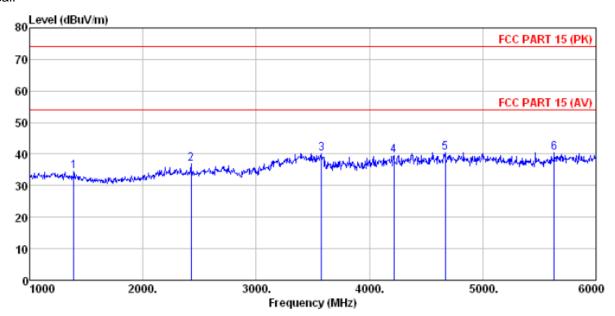
Site Condition : 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL

Job No. Test Mode : PC m Test Engineer: Rong : PC mode

|             | Freq                             |       | Antenna<br>Factor |      |                |        | Limit<br>Line  | Over<br>Limit    | Remark       |
|-------------|----------------------------------|-------|-------------------|------|----------------|--------|----------------|------------------|--------------|
|             | MHz                              | dBu∜  | <u>dB</u> /m      | dB   | dB             | dBuV/m | dBuV/m         | dB               |              |
| 1<br>2<br>3 | 3450.000                         | 36.60 | 27.99<br>28.80    | 6.86 | 34.21<br>32.81 | 39.45  | 74.00<br>74.00 | -38.13<br>-34.55 | Peak<br>Peak |
| 4<br>5<br>6 | 4340.000<br>4745.000<br>5675.000 | 32.65 |                   |      | 32.06<br>32.33 |        | 74.00          | -33.15           | Peak         |



### Vertical:



: 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL : 1564RF Condition

Job No. Test Mode : PC mode Test Engineer: Rong

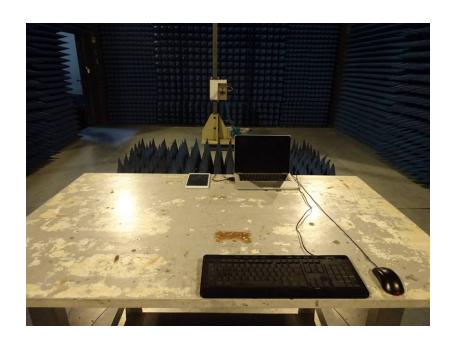
|        | Freq                 |                | Antenna<br>Factor |              |    |                | Limit<br>Line | Over<br>Limit | Remark |
|--------|----------------------|----------------|-------------------|--------------|----|----------------|---------------|---------------|--------|
|        | MHz                  | dBu∜           | <u>dB</u> /m      | dB           | dB | dBuV/m         | dBuV/m        | <u>dB</u>     |        |
| 1 2    | 1390.000<br>2425.000 | 37.76<br>38.05 | 25.60<br>27.52    | 4.61<br>5.41 |    | 34.55<br>37.01 |               |               |        |
| 3<br>4 | 3575.000<br>4215.000 |                | 29.11<br>30.27    | 7.11<br>8.08 |    | 40.14<br>39.67 |               |               |        |
| 5<br>6 | 4670.000<br>5630.000 |                |                   |              |    | 40.39<br>40.51 |               |               |        |



# 8 Test Setup Photo

Radiated Emission







Conducted Emission



# 9 EUT Constructional Details

Reference to the test report No. GTSE15080156401

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