



# FCC RADIO TEST REPORT

**Product :** mobile communication terminal

**Trade Name :** Konying

**Model Name :** KY-T600PDA

**Serial Model :** N/A

## Prepared for

Shenzhen Kang Ying Technology Co., Ltd.

Units 608, Saiba Electronic tower, No.6, Langshan 2Rd., Hi-Tech Industrial  
Park North, Nanshan, Shenzhen China

## Prepared by

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## TEST RESULT CERTIFICATION

**Applicant's name** ..... : Shenzhen Kang Ying Technology Co., Ltd.

**Address** ..... : Units 608, Saiba Electronic tower, No.6, Langshan 2Rd., Hi-Tech Industrial Park North, Nanshan, Shenzhen China

**Manufacture's Name** ..... : Shenzhen Kang Ying Technology Co., Ltd.

**Address** ..... : Units 608, Saiba Electronic tower, No.6, Langshan 2Rd., Hi-Tech Industrial Park North, Nanshan, Shenzhen China

### Product description

**Product name**..... : mobile communication terminal

**Model and/or type reference** : KY-T600PDA

**Standards** ..... : FCC Part15.225

**Test procedure** ..... ANSI C63.4-2014

This device described above has been tested by AiT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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**Date of Test**..... :

**Date (s) of performance of tests**..... : Jun. 12 2016 ~Jun. 20 2016

**Date of Issue** ..... : Jun. 20 2016

**Test Result**..... : **Pass**

**Reviewed by:** Seal-Chen

**Approved by:** Jim

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## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15, Subpart C (15.225) |                            |          |        |
|--------------------------------|----------------------------|----------|--------|
| Standard Section               | Test Item                  | Judgment | Remark |
| 15.207                         | Conducted Emission         | Pass     |        |
| 15.203                         | Antenna Requirement        | Pass     |        |
| 15.225                         | Radiated Spurious Emission | Pass     |        |
| 15.225                         | Bandwidth Requirement      | Pass     |        |
| 15.225                         | Frequency stability        | Pass     |        |

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report.

## 1.1 TEST FACILITY

Dongguan Yaxu (AiT) Technology Limited

No. 22, JinQianLing Street 3, JiTiGang Village, Huang-Jiang Town, DongGuan, Guangdong, 523757 China

FCC Registration No.: 248337

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately **95 %**.

| No. | Item                          | Uncertainty               |
|-----|-------------------------------|---------------------------|
| 1   | Conducted Emission Test       | $\pm 1.38\text{dB}$       |
| 2   | RF power, conducted           | $\pm 0.16\text{dB}$       |
| 3   | Spurious emissions, conducted | $\pm 0.21\text{dB}$       |
| 4   | All emissions, radiated (<1G) | $\pm 4.68\text{dB}$       |
| 5   | All emissions, radiated (>1G) | $\pm 4.89\text{dB}$       |
| 6   | Temperature                   | $\pm 0.5^{\circ}\text{C}$ |
| 7   | Humidity                      | $\pm 2\%$                 |

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

|                                                                                                                                                                                                                    |                                                                |                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------|
| Equipment                                                                                                                                                                                                          | mobile communication terminal                                  |                        |
| Model Name                                                                                                                                                                                                         | KY-T600PDA                                                     |                        |
| Serial Model                                                                                                                                                                                                       | N/A                                                            |                        |
| Model Difference                                                                                                                                                                                                   | N/A                                                            |                        |
| Product Description                                                                                                                                                                                                | The EUT is a mobile communication terminal                     |                        |
|                                                                                                                                                                                                                    | Operation Frequency:                                           | 13.56MHz               |
|                                                                                                                                                                                                                    | Modulation Type:                                               | ASK                    |
|                                                                                                                                                                                                                    | Number Of Channel                                              | 1CH.                   |
|                                                                                                                                                                                                                    | Antenna Designation:                                           | PCB antenna            |
|                                                                                                                                                                                                                    | Antenna Gain(Peak)                                             | 0dBi                   |
|                                                                                                                                                                                                                    | Output Power:                                                  | 91.97 dBuV/m (AV Max.) |
| Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. |                                                                |                        |
| Channel List                                                                                                                                                                                                       | N/A                                                            |                        |
| Adapter                                                                                                                                                                                                            | M/N:MX520U,Input:100-240V, 50/60Hz, 0.35A,<br>Output:DC 5V, 2A |                        |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

Table for Filed Antenna

| Ant | Brand | Model Name | Antenna Type | Connector | Gain (dBi) | NOTE    |
|-----|-------|------------|--------------|-----------|------------|---------|
| 1   | N/A   | N/A        | PCB Antenna  | NA        | 0          | Antenna |

## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description |
|--------------|-------------|
| Mode 1       | TX          |

| For Conducted Emission |             |
|------------------------|-------------|
| Final Test Mode        | Description |
| Mode 1                 | TX          |

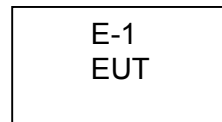
| For Radiated Emission |             |
|-----------------------|-------------|
| Final Test Mode       | Description |
| Mode 1                | TX          |





## 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



## 2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment                     | Mfr/Brand | Model/Type No. | Series No. | Note |
|------|-------------------------------|-----------|----------------|------------|------|
| E-1  | mobile communication terminal | Konying   | KY-T600PD<br>A | N/A        | EUT  |
|      |                               |           |                |            |      |
|      |                               |           |                |            |      |
|      |                               |           |                |            |      |
|      |                               |           |                |            |      |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
|      |               |              |        |      |
|      |               |              |        |      |
|      |               |              |        |      |
|      |               |              |        |      |
|      |               |              |        |      |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

## 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

| No                                                                                                                                                               | Test Equipment                      | Manufacturer | Model No         | Serial No   | Cal. Date  | Cal. Due Date |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------|------------------|-------------|------------|---------------|
| 1                                                                                                                                                                | Spectrum Analyzer                   | ADVANTEST    | R3182            | 150900201   | 2015.06.29 | 2016.06.28    |
| 2                                                                                                                                                                | EMI Measuring Receiver              | R&S          | ESR              | 101660      | 2015.06.29 | 2016.06.28    |
| 3                                                                                                                                                                | Low Noise Pre Amplifier             | Tsj          | MLA-10K01-B01-27 | 1205323     | 2015.06.29 | 2016.06.28    |
| 4                                                                                                                                                                | Low Noise Pre Amplifier             | Tsj          | MLA-0120-A02-34  | 2648A04738  | 2015.06.29 | 2016.06.28    |
| 5                                                                                                                                                                | TRILOG Super Broadband test Antenna | SCHWARZBECK  | VULB9160         | 9160-3206   | 2015.06.29 | 2016.06.28    |
| 6                                                                                                                                                                | Broadband Horn Antenna              | SCHWARZBECK  | BBHA9120D        | 452         | 2015.06.29 | 2016.06.28    |
| 7                                                                                                                                                                | SHF-EHF Horn                        | SCHWARZBECK  | BBHA9170         | BBHA9170367 | 2015.06.29 | 2016.06.28    |
| 8                                                                                                                                                                | 50Ω Coaxial Switch                  | Anritsu      | MP59B            | 6200264416  | 2015.06.29 | 2016.06.28    |
| 9                                                                                                                                                                | EMI Test Receiver                   | R&S          | ESCI             | 100124      | 2015.06.29 | 2016.06.28    |
| 10                                                                                                                                                               | LISN                                | Kyoritsu     | KNW-242          | 8-837-4     | 2015.06.29 | 2016.06.28    |
| 11                                                                                                                                                               | LISN                                | Kyoritsu     | KNW-407          | 8-1789-3    | 2015.06.29 | 2016.06.28    |
| 12                                                                                                                                                               | 50Ω Coaxial Switch                  | Anritsu      | MP59B            | 6200264417  | 2015.06.29 | 2016.06.28    |
| 13                                                                                                                                                               | Loop Antenna                        | ARA          | PLA-1030/B       | 1029        | 2015.06.29 | 2016.06.28    |
| 14                                                                                                                                                               | Radiated Cable 1# (30MHz-1GHz)      | FUJIKURA     | 5D-2W            | 01          | 2015.06.29 | 2016.06.28    |
| 15                                                                                                                                                               | Radiated Cable 2# (1GHz -25GHz)     | FUJIKURA     | 10D2W            | 02          | 2015.06.29 | 2016.06.28    |
| 16                                                                                                                                                               | Conducted Cable 1#(9KHz-30MHz)      | FUJIKURA     | 1D-2W            | 01          | 2015.06.29 | 2016.06.28    |
| 17                                                                                                                                                               | SMA Antenna connector               | Dosin        | Dosin-SMA        | N/A         | N/A        | N/A           |
| Note: The SMA antenna connector is soldered on the PCB board in order to perform conducted tests and this SMA antenna connector is listed in the equipment list. |                                     |              |                  |             |            |               |



### **3. ANTENNA REQUIREMENT**

#### **3.1 STANDARD REQUIREMENT**

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

#### **3.2 EUT ANTENNA**

The EUT antenna is integral Antenna. It comply with the standard requirement.

### 3.3 CONDUCTED EMISSION MEASUREMENT

#### 3.3.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

| FREQUENCY (MHz) | Class A (dBuV) |         | Class B (dBuV) |           | Standard |
|-----------------|----------------|---------|----------------|-----------|----------|
|                 | Quasi-peak     | Average | Quasi-peak     | Average   |          |
| 0.15 -0.5       |                |         | 66 - 56 *      | 56 - 46 * | CISPR    |
| 0.50 -5.0       |                |         | 56.00          | 46.00     | CISPR    |
| 5.0 -30.0       |                |         | 60.00          | 50.00     | CISPR    |

|           |  |  |           |           |        |
|-----------|--|--|-----------|-----------|--------|
| 0.15 -0.5 |  |  | 66 - 56 * | 56 - 46 * | LP002. |
| 0.50 -5.0 |  |  | 56.00     | 46.00     | LP002. |
| 5.0 -30.0 |  |  | 60.00     | 50.00     | LP002. |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

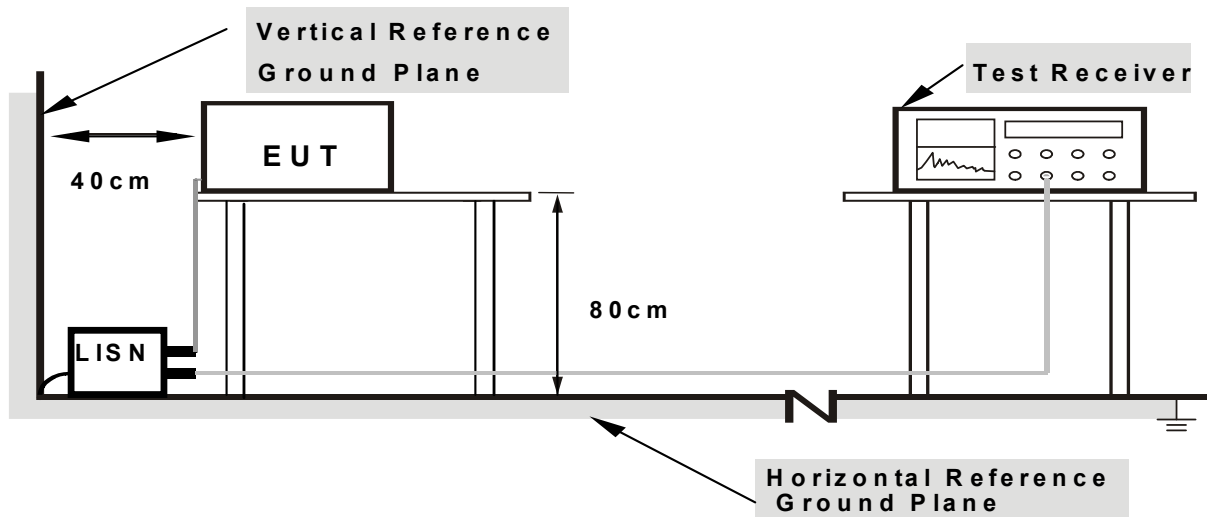
### 3.3.2 TEST PROCEDURE

- The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.3.3 DEVIATION FROM TEST STANDARD

No deviation

### 3.3.4 TEST SETUP



**Note: 1.**Support units were connected to second LISN .

**2.**Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

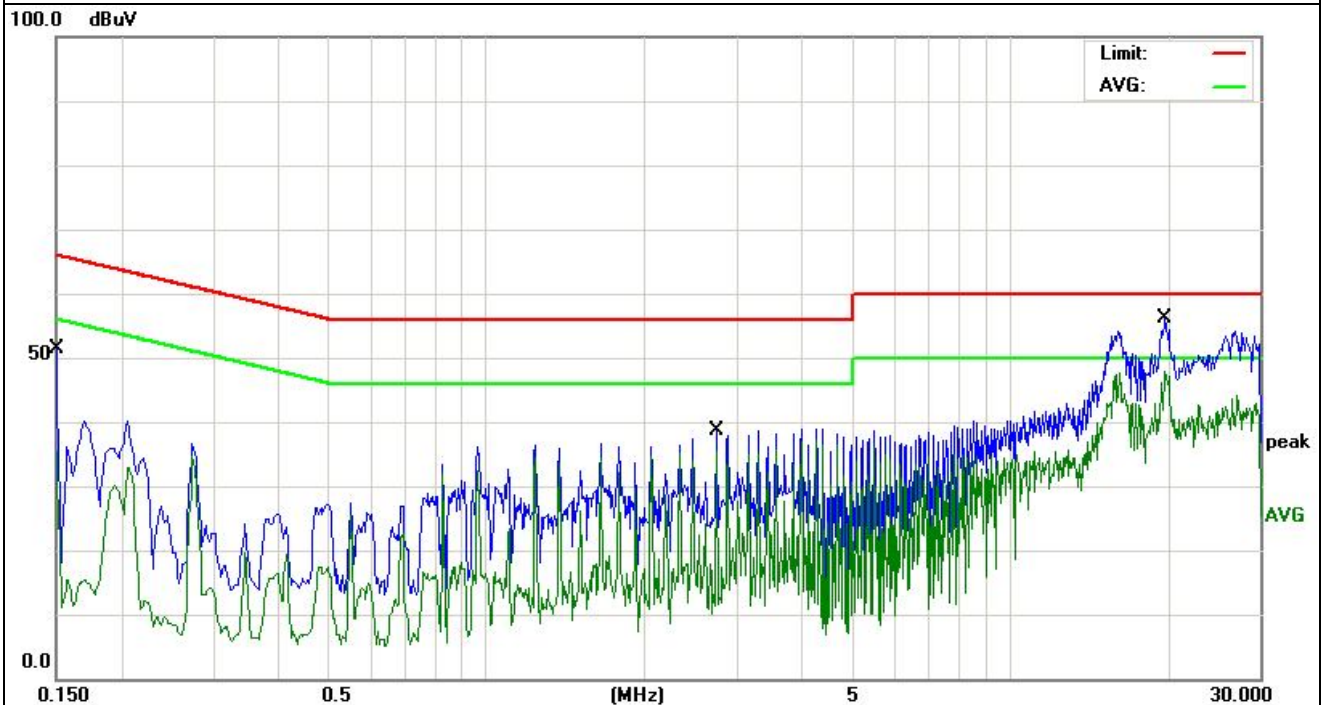
### 3.2.5 TEST RESULT

|                |                               |                     |            |
|----------------|-------------------------------|---------------------|------------|
| EUT :          | mobile communication terminal | Model Name. :       | KY-T600PDA |
| Temperature :  | 26 °C                         | Relative Humidity : | 54%        |
| Pressure :     | 1010hPa                       | Phase :             | L          |
| Test Voltage : | DC 5V by adapter AC 120V/60Hz | Test Mode :         | TX         |

| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|---------|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1       | 0.1500       | 39.47                    | 11.94                   | 51.41                    | 65.99         | -14.58     | QP       |         |
| 2       | 0.1500       | 23.55                    | 11.94                   | 35.49                    | 55.99         | -20.50     | AVG      |         |
| 3       | 2.7500       | 28.51                    | 10.18                   | 38.69                    | 56.00         | -17.31     | QP       |         |
| 4       | 2.7500       | 25.26                    | 10.18                   | 35.44                    | 46.00         | -10.56     | AVG      |         |
| 5       | 19.7900      | 43.40                    | 10.48                   | 53.88                    | 60.00         | -6.12      | QP       |         |
| 6 *     | 19.7900      | 35.20                    | 10.48                   | 45.68                    | 50.00         | -4.32      | AVG      |         |

#### Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

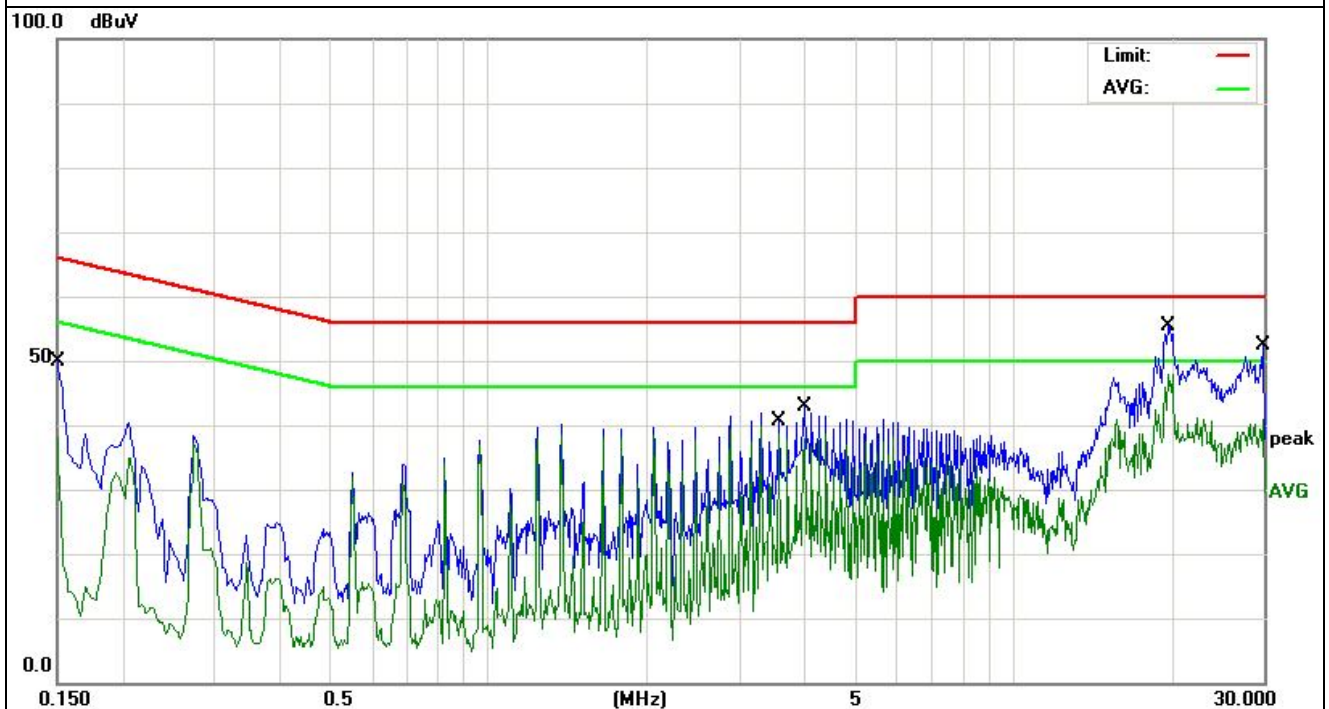


|                |                               |                     |            |
|----------------|-------------------------------|---------------------|------------|
| EUT :          | mobile communication terminal | Model Name. :       | KY-T600PDA |
| Temperature :  | 26 °C                         | Relative Humidity : | 54%        |
| Pressure :     | 1010hPa                       | Phase :             | N          |
| Test Voltage : | DC 5V by adapter AC 120V/60Hz | Test Mode :         | TX         |

| No. Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measurement dBuV | Limit dBuV | Over dB | Detector | Comment |
|---------|-----------|--------------------|-------------------|------------------|------------|---------|----------|---------|
| 1       | 0.1500    | 38.05              | 11.94             | 49.99            | 65.99      | -16.00  | QP       |         |
| 2       | 0.1500    | 26.11              | 11.94             | 38.05            | 55.99      | -17.94  | AVG      |         |
| 3       | 3.5740    | 28.39              | 10.18             | 38.57            | 46.00      | -7.43   | AVG      |         |
| 4       | 3.9860    | 32.73              | 10.17             | 42.90            | 56.00      | -13.10  | QP       |         |
| 5       | 19.9300   | 43.30              | 10.48             | 53.78            | 60.00      | -6.22   | QP       |         |
| 6 *     | 19.9300   | 33.80              | 10.48             | 44.28            | 50.00      | -5.72   | AVG      |         |
| 7       | 29.9580   | 41.46              | 10.85             | 52.31            | 60.00      | -7.69   | QP       |         |
| 8       | 29.9580   | 30.12              | 10.85             | 40.97            | 50.00      | -9.03   | AVG      |         |

#### Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.





### 3.4 RADIATED EMISSION MEASUREMENT

#### 3.4.1 Radiated Emission Limits (FCC 15.209)

| Frequencies<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|----------------------|--------------------------------------|----------------------------------|
| 0.009~0.490          | 2400/F(KHz)                          | 300                              |
| 0.490~1.705          | 24000/F(KHz)                         | 30                               |
| 1.705~30.0           | 30                                   | 30                               |
| 30~88                | 100                                  | 3                                |
| 88~216               | 150                                  | 3                                |
| 216~960              | 200                                  | 3                                |
| Above 960            | 500                                  | 3                                |

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

#### LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.225)

Please see the section 15.225(b) and 15.225(c)

15.225(b): Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter (50.5dBuV/m) at 30 meters

15.225(c): Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter (40.5dBuV/m) at 30 meters

Note: 30m to 3m correction factor calculation:

$$40 \cdot \log(30\text{m}/3\text{m}) = 40$$

| Spectrum Parameter                    | Setting               |
|---------------------------------------|-----------------------|
| Attenuation                           | Auto                  |
| Start Frequency                       | 9 kHz                 |
| Stop Frequency                        | 10th carrier harmonic |
| RB / VB (emission in restricted band) | 1MHz / 1MHz for Peak  |

| Receiver Parameter     | Setting                          |
|------------------------|----------------------------------|
| Attenuation            | Auto                             |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP    |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP    |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

### 3.4.2 TEST PROCEDURE

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

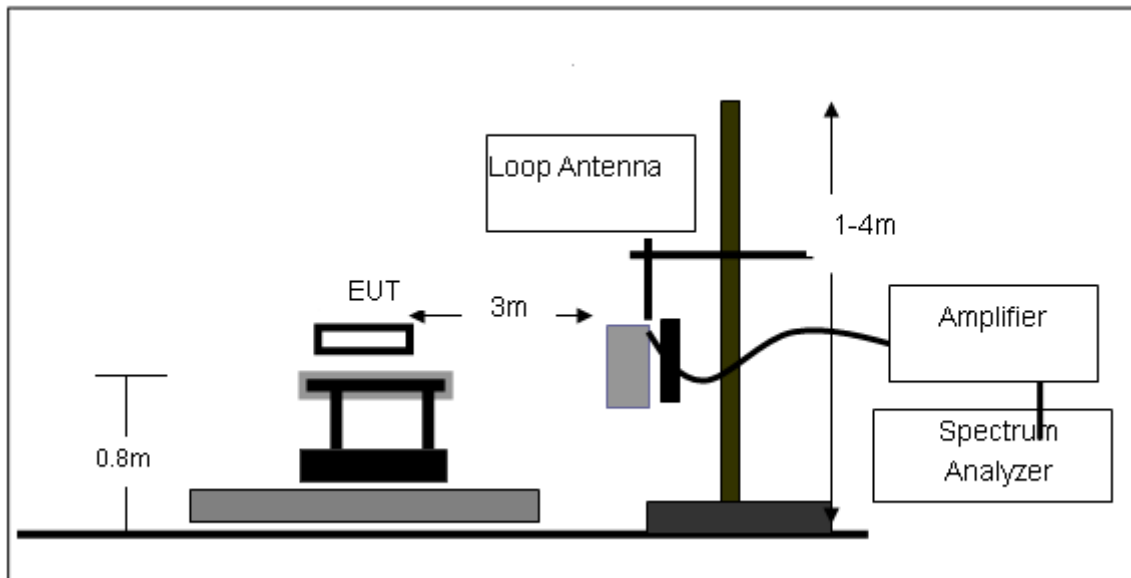
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

### 3.4.3 DEVIATION FROM TEST STANDARD

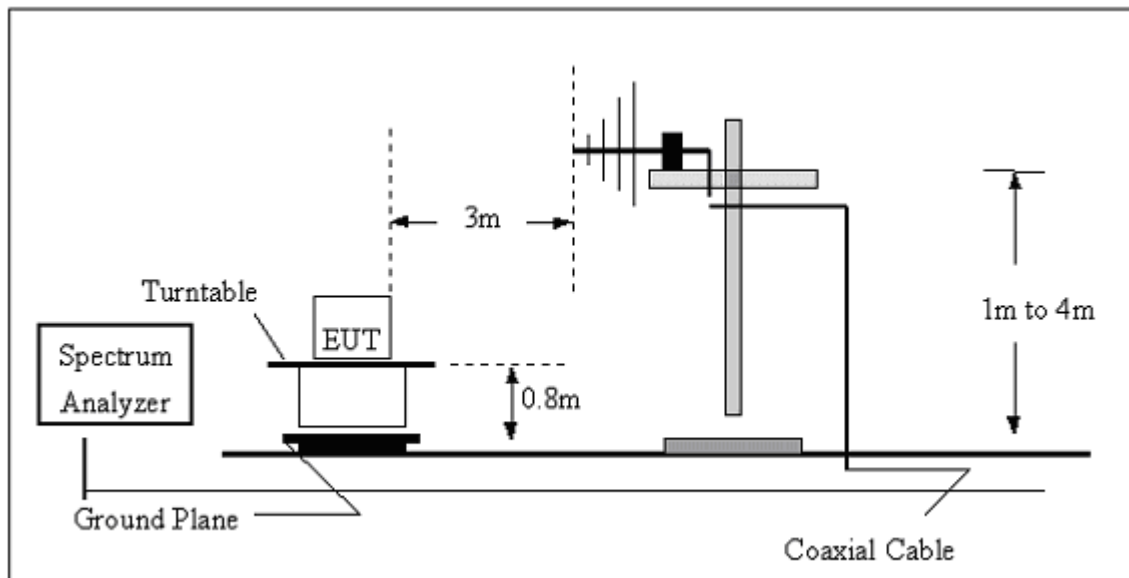
No deviation

### 3.4.4 TEST SETUP

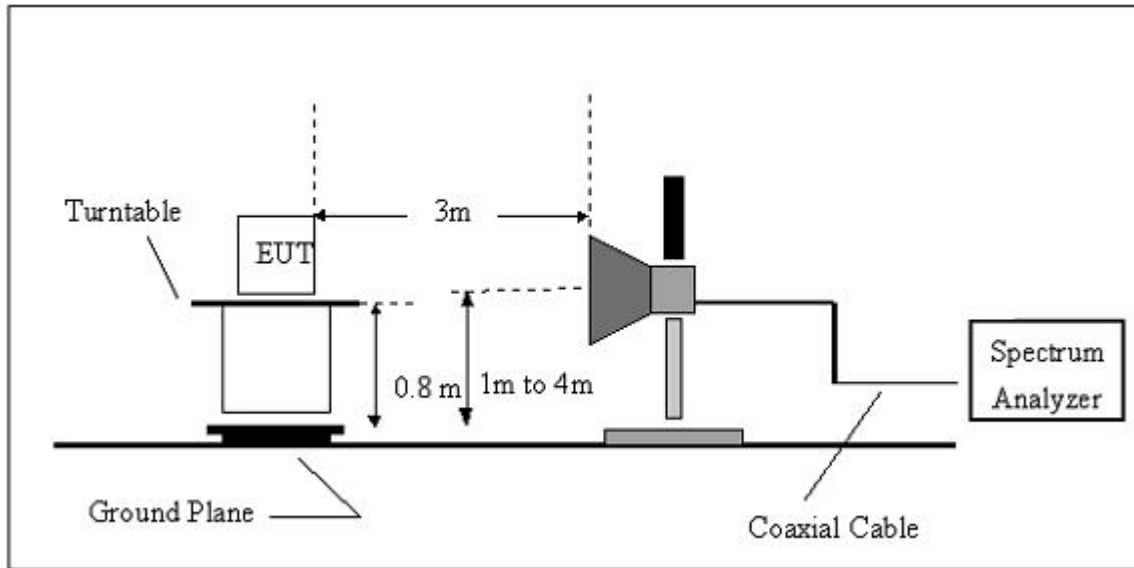
#### (A) Radiated Emission Test-Up Frequency Below 30MHz



#### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



### 3.4.5 TEST RESULTS (BLOW 30MHz)

|               |                               |                     |            |
|---------------|-------------------------------|---------------------|------------|
| EUT :         | mobile communication terminal | Model Name. :       | KY-T600PDA |
| Temperature : | 20 °C                         | Relative Humidity : | 48%        |
| Pressure :    | 1010 hPa                      | Test Voltage :      | DC 3.8V    |
| Test Mode :   | TX                            | Polarization :      | --         |

#### Radiated Emissions Result of Inside band (13.56MHz)

| Channel (13.56MHz) |                       |                 |                         |                     |                         |                         |                             |                 |              |
|--------------------|-----------------------|-----------------|-------------------------|---------------------|-------------------------|-------------------------|-----------------------------|-----------------|--------------|
| Fre.<br>MHz        | Positio<br>n<br>X/Y/Z | Reading<br>dBuV | Antenna<br>Factor<br>dB | Cable<br>Loss<br>dB | Amplifier<br>Gain<br>dB | Correct<br>Factor<br>dB | Measure<br>Result<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB |
| 13.56              | X                     | 123.27<br>(PK)  | 10.4                    | 0.31                | 24.62                   | -13.91                  | 109.36                      | 124             | -14.64       |
| 13.56              | X                     | 105.88<br>(AV)  | 10.4                    | 0.31                | 24.62                   | -13.91                  | 91.97                       | 104             | -12.03       |
| --                 | X                     | --              | --                      | --                  | --                      | --                      | --                          | --              | --           |
| 13.56              | Y                     | 118.47<br>(PK)  | 10.4                    | 0.31                | 24.62                   | -13.91                  | 104.56                      | 124             | -19.44       |
| 13.56              | Y                     | 101.64<br>(AV)  | 10.4                    | 0.31                | 24.62                   | -13.91                  | 87.73                       | 104             | -16.27       |
| --                 | Y                     | --              | --                      | --                  | --                      | --                      | --                          | --              | --           |
| 13.56              | Z                     | 116.37<br>(PK)  | 10.4                    | 0.31                | 24.62                   | -13.91                  | 102.46                      | 124             | -21.54       |
| 13.56              | Z                     | 99.78<br>(PK)   | 10.4                    | 0.31                | 24.62                   | -13.91                  | 85.87                       | 104             | -18.13       |
| --                 | Z                     | --              | --                      | --                  | --                      | --                      | --                          | --              | --           |

**Notes:** --Means other frequency and mode comply with standard requirements and at least have 20dB margin.

Correct Factor=Cable Loss+ Antenna Factor- Amplifier Gain

Measurement Result=Reading + Correct Factor

Margin=Measurement Result-Limit

--Spectrum setting:

a. Peak setting RBW=120KHz, VBW=300KHz.

b. AV setting RBW=1MHz, VBW=10Hz.

Field strength

| Freq. (MHz) | Position X/Y/Z | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limits 3m (dBuV/m) | Margin (dBuV/m) |
|-------------|----------------|-----------------------|----------------|-------------|--------------------|--------------------|-----------------|
| 13.274      | X              | Peak                  | 56.82          | -13.92      | 42.9               | 80.5               | -37.6           |
| 13.468      | X              | Peak                  | 67.17          | -13.92      | 53.25              | 90.5               | -37.25          |
| 13.513      | X              | Peak                  | 60.57          | -13.92      | 46.65              | 90.5               | -43.85          |
| 13.569      | X              | Peak                  | 47.15          | -13.91      | 33.24              | 90.5               | -57.26          |
| 13.728      | X              | Peak                  | 55.15          | -13.91      | 41.24              | 80.5               | -39.26          |
| 13.896      | X              | Peak                  | 57.37          | -13.91      | 43.46              | 80.5               | -37.04          |

| Freq. (MHz) | Position X/Y/Z | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limits 3m (dBuV/m) | Margin (dBuV/m) |
|-------------|----------------|-----------------------|----------------|-------------|--------------------|--------------------|-----------------|
| 13.186      | Y              | Peak                  | 55.72          | -13.92      | 41.8               | 80.5               | -38.7           |
| 13.394      | Y              | Peak                  | 66.37          | -13.92      | 52.45              | 80.5               | -28.05          |
| 13.452      | Y              | Peak                  | 60.18          | -13.92      | 46.26              | 90.5               | -44.24          |
| 13.517      | Y              | Peak                  | 59.27          | -13.92      | 45.35              | 90.5               | -45.15          |
| 13.642      | Y              | Peak                  | 55.11          | -13.91      | 41.2               | 90.5               | -49.3           |
| 13.785      | Y              | Peak                  | 62.36          | -13.91      | 48.45              | 80.5               | -32.05          |

| Freq. (MHz) | Position X/Y/Z | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limits 3m (dBuV/m) | Margin (dBuV/m) |
|-------------|----------------|-----------------------|----------------|-------------|--------------------|--------------------|-----------------|
| 13.219      | Z              | Peak                  | 48.76          | -13.92      | 34.84              | 80.5               | -45.66          |
| 13.357      | Z              | Peak                  | 55.62          | -13.92      | 41.7               | 80.5               | -38.8           |
| 13.436      | Z              | Peak                  | 63.24          | -13.92      | 49.32              | 90.5               | -41.18          |
| 13.603      | Z              | Peak                  | 55.16          | -13.91      | 41.25              | 90.5               | -49.25          |
| 13.752      | Z              | Peak                  | 61.2           | -13.91      | 47.29              | 80.5               | -33.21          |
| 13.846      | Z              | Peak                  | 56.32          | -13.91      | 42.41              | 80.5               | -38.09          |

### 3.4.6 TEST RESULTS (BETWEEN 30 – 1000 MHZ)

|               |                               |                     |            |
|---------------|-------------------------------|---------------------|------------|
| EUT :         | mobile communication terminal | Model Name :        | KY-T600PDA |
| Temperature : | 20 °C                         | Relative Humidity : | 48%        |
| Pressure :    | 1010 hPa                      | Test Voltage :      | DC 3.8V    |
| Test Mode :   | TX                            | Polarization :      | Horizontal |

| Freq. (MHz) | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limits 3m (dBuV/m) | Margin (dBuV/m) |
|-------------|-----------------------|----------------|-------------|--------------------|--------------------|-----------------|
| 194.9       | QP                    | 42.18          | -17.35      | 24.83              | 43.5               | -18.67          |
| 416.06      | QP                    | 52.31          | -11.77      | 40.54              | 46                 | -5.46           |
| 468.44      | QP                    | 50.17          | -10.57      | 39.6               | 46                 | -6.4            |
| 584.84      | QP                    | 48.32          | -8.6        | 39.72              | 46                 | -6.28           |
| 624.61      | QP                    | 43.17          | -7.8        | 35.37              | 46                 | -10.63          |
| 832.19      | QP                    | 41.22          | -5.12       | 36.1               | 46                 | -9.9            |

|               |                               |                     |                               |
|---------------|-------------------------------|---------------------|-------------------------------|
| EUT :         | mobile communication terminal | Model Name :        | KY-T600PDA                    |
| Temperature : | 20 °C                         | Relative Humidity : | 48%                           |
| Pressure :    | 1010 hPa                      | Test Voltage :      | DC 5V by adapter AC 120V/60Hz |
| Test Mode :   | TX                            | Polarization :      | Vertical                      |

| Freq. (MHz) | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limits 3m (dBuV/m) | Margin (dBuV/m) |
|-------------|-----------------------|----------------|-------------|--------------------|--------------------|-----------------|
| 194.9       | QP                    | 46.27          | -16.81      | 29.46              | 46                 | -16.54          |
| 416.06      | QP                    | 45.17          | -13.74      | 31.43              | 46                 | -14.57          |
| 468.44      | QP                    | 46.38          | -11.77      | 34.61              | 46                 | -11.39          |
| 584.84      | QP                    | 42.17          | -10.57      | 31.6               | 46                 | -14.4           |
| 624.61      | QP                    | 44.05          | -8.85       | 35.2               | 46                 | -10.8           |
| 832.19      | QP                    | 40.17          | -5.12       | 35.05              | 46                 | -10.95          |

#### NOTE:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. \*: Denotes restricted band of operation.

Measurements were made using a peak detector and average detector. Any emission falling within the restricted bands of FCC Part 15 Section 15.205 were compliance with the emission limit of FCC Part 15 Section 15.209.



|               |                               |                     |            |
|---------------|-------------------------------|---------------------|------------|
| EUT :         | mobile communication terminal | Model Name :        | KY-T600PDA |
| Temperature : | 20 °C                         | Relative Humidity : | 48%        |
| Pressure :    | 1010 hPa                      | Test Voltage :      | DC 3.8V    |
| Test Mode :   | RX                            | Polarization :      | Horizontal |

| Freq. (MHz) | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limits 3m (dBuV/m) | Margin (dBuV/m) |
|-------------|-----------------------|----------------|-------------|--------------------|--------------------|-----------------|
| 189.35      | QP                    | 42.17          | -15.39      | 26.78              | 43.5               | -16.72          |
| 563.26      | QP                    | 40.33          | -9.48       | 30.85              | 46                 | -15.15          |

|               |                               |                     |                               |
|---------------|-------------------------------|---------------------|-------------------------------|
| EUT :         | mobile communication terminal | Model Name :        | KY-T600PDA                    |
| Temperature : | 20 °C                         | Relative Humidity : | 48%                           |
| Pressure :    | 1010 hPa                      | Test Voltage :      | DC 5V by adapter AC 120V/60Hz |
| Test Mode :   | RX                            | Polarization :      | Vertical                      |

| Freq. (MHz) | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limits 3m (dBuV/m) | Margin (dBuV/m) |
|-------------|-----------------------|----------------|-------------|--------------------|--------------------|-----------------|
| 365.25      | QP                    | 42.64          | -17.68      | 24.96              | 46                 | -21.04          |
| 522.23      | QP                    | 44.12          | -12.14      | 31.98              | 46                 | -14.02          |

**NoTE:**

1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. \*: Denotes restricted band of operation.

Measurements were made using a peak detector and average detector. Any emission falling within the restricted bands of FCC Part 15 Section 15.205 were compliance with the emission limit of FCC Part 15 Section 15.209.



## 4. BANDWIDTH TEST

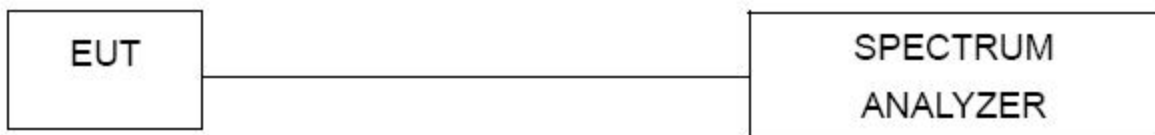
### 4.1 TEST PROCEDURE

- a) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
- b) The test receiver RBW set 10KHz, VBW set 30KHz

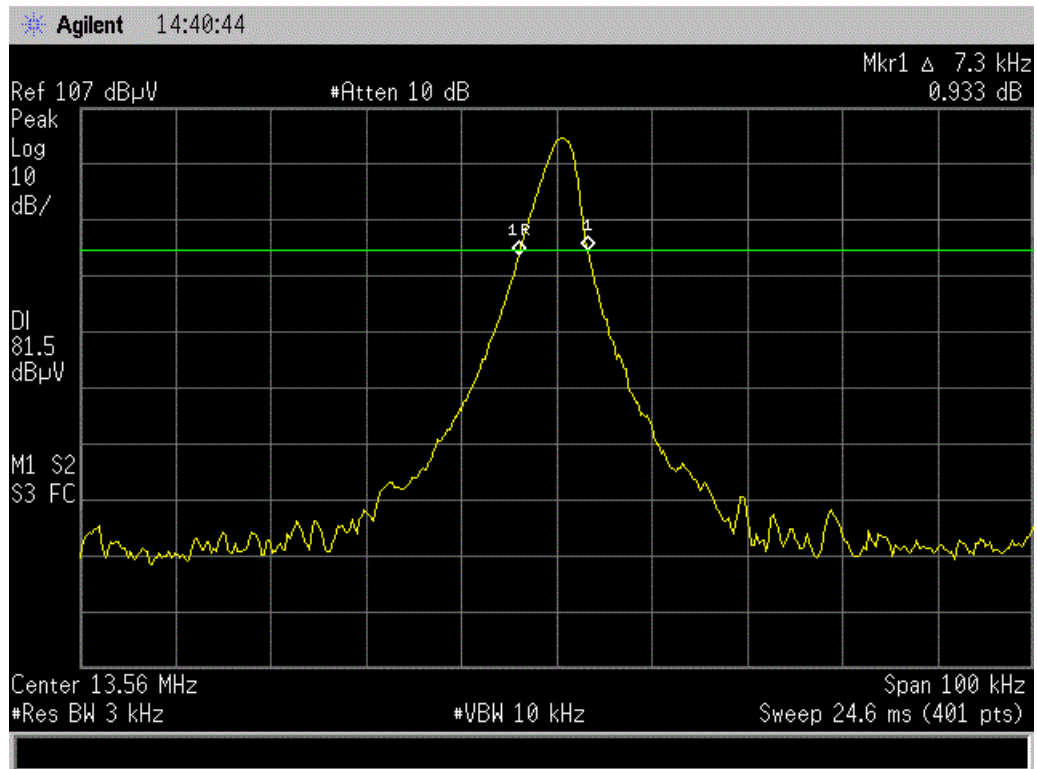
### 4.2 DEVIATION FROM STANDARD

No deviation.

### 4.3 TEST SETUP



#### 4.4 TEST RESULTS



## 5. FREQUENCY STABILITY

### 5.1 REQUIREMENTS

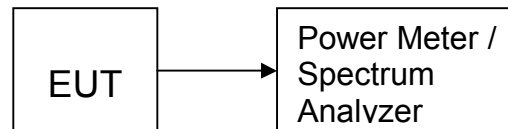
Please refer section 15.225e.

Regulation 15.225(e) The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  ( $\pm 100$  ppm) of the operating frequency over a temperature variation of  $-20$  degrees to  $+50$  degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

### 5.2 TEST PROCEDURE

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application

### 5.3 TEST SETUP

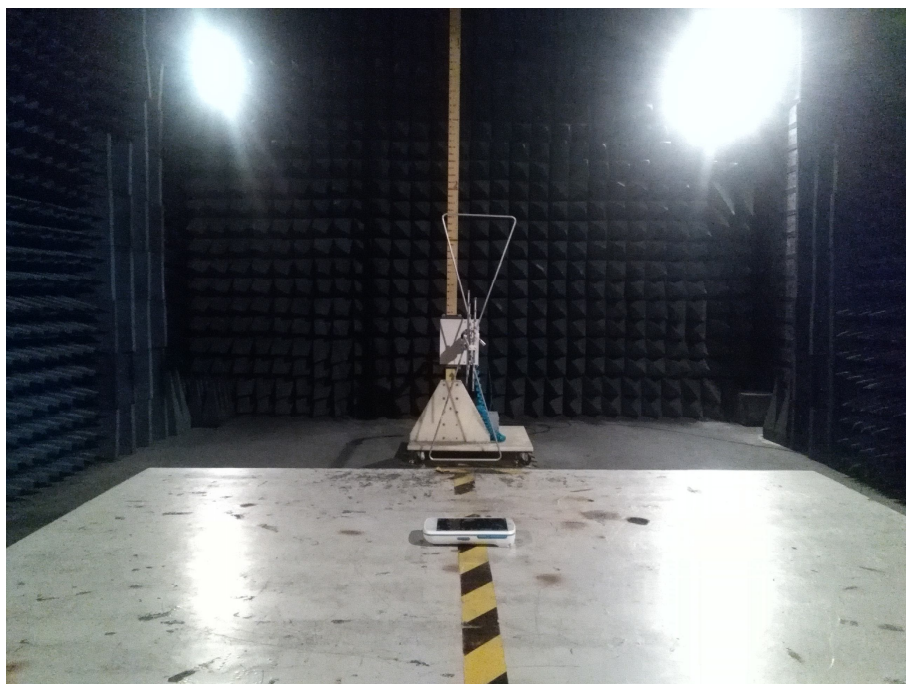


### 5.4 TEST RESULTS

| Assigned Frequency(MHz): 13.56MHz<br>Voltage: DC 3.8V |             |                          |                     |                          |
|-------------------------------------------------------|-------------|--------------------------|---------------------|--------------------------|
| Voltage                                               | Temperature | Measured Frequency (MHz) | Frequency stability | Limit                    |
| Low<br>3.2V                                           | +20°C       | 13.56089                 | 0.00089             | ±100 ppm<br>±0.001356MHz |
| Normal<br>3.8V                                        | -20°C       | 13.56087                 | 0.00087             |                          |
|                                                       | -10°C       | 13.55921                 | -0.00079            |                          |
|                                                       | 0°C         | 13.56078                 | 0.00078             |                          |
|                                                       | +10°C       | 13.55949                 | -0.00051            |                          |
|                                                       | +20°C       | 13.56014                 | 0.00014             |                          |
|                                                       | +30°C       | 13.56076                 | 0.00076             |                          |
|                                                       | +40°C       | 13.55929                 | -0.00071            |                          |
|                                                       | +50°C       | 13.55932                 | -0.00068            |                          |
| High<br>4.2V                                          | +20°C       | 13.56084                 | 0.00084             |                          |

## 6. EUT TEST PHOTO

### Radiated Measurement Photos



### Conducted Measurement Photos

