

# FCC Test Report

## FCC 47 CFR FCC Part 15 Subpart B

Product Name : Handset

Model No. : A1536,PCD1361EC,PCD1361ECR,CL1361EC,CL1361ECR,PCD1361,  
CL1361EN,CL1361,TE1361,PCD1361PE,PCD1361AL,PCD1361,CL,  
PCD1361PO,PCD1361MV,PCD1361OM,PCD1361MX,TE1361PE,  
AL1361AL,CL1361CL,CL1361PO,MV1361MV,TE1361MX; CL1361CA;  
PCD1361BR;PCD1361AR;PCD1361CP

FCC ID : T38PCD1536

Prepared By: : Inventec Appliances(Pudong) Corporation

Address: : No.789 Pu Xing Road,Shanghai,PRC

Date of Receipt : 2012.08.17

Date of Test : 2012.08.17-2012.09.21

Report No. : 20120817FCC-A



## Test Report Certification

Date of Issue : Sep.21.2012

Report No. : 20120817FCC-A

Product Name : Handset

A1536,PCD1361EC,PCD1361ECR,CL1361EC,CL1361ECR,PCD1361,  
CL1361EN,CL1361,TE1361,PCD1361PE,PCD1361AL,PCD1361,CL,Model No. : PCD1361PO,PCD1361MV,PCD1361OM,PCD1361MX,TE1361PE,  
AL1361AL,CL1361CL,CL1361PO,MV1361MV,TE1361MX; CL1361CA;  
PCD1361BR;PCD1361AR;PCD1361CP

Trade Name : CLARO\PCD

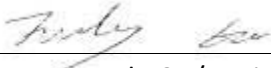
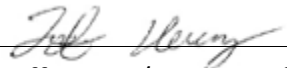
Applicant : Cellon Communications Technology (Shenzhen) Co.,Ltd.  
: 13/F, Skyworth C Building, Gaoxin S.Ave1, Hi-Tech Industrial Park, Nanshan  
Address District,

Standard : FCC 47 CFR FCC Part 15 Subpart B

Classification : JBP

Test Result : Complied

The Test Results relate only to the samples tested.

The test report shall not be reproduced except in full without the written approval of  
IAC regulatory LaboratoryDocumented By :  , Sep.21.2012  
Judy Ge/EngineerTested By :  , Sep.21.2012  
Alice Lee/EngineerApproved By :  , Sep.21.2012  
Jeff Huang/Director of Operations

## TABLE OF CONTENTS

| Description                                         | Page |
|-----------------------------------------------------|------|
| 1. GENERAL INFORMATION .....                        | 5    |
| 1.1 Applicant.....                                  | 5    |
| 1.2 Manufacturer .....                              | 5    |
| 1.3 Feature of Equipment Under Test .....           | 5    |
| 1.4 Applied Standards .....                         | 5    |
| 2. Test Configuration of Equipment Under Test ..... | 6    |
| 2.1 Test Modes.....                                 | 6    |
| 2.2 Testing Environment.....                        | 6    |
| 3. Test Result .....                                | 7    |
| 3.1 Test of AC Conducted Emission Measurement ..... | 7    |
| 3.2 Test of Radiated Emission Measurement .....     | 10   |
| 4. List of Measuring Equipment.....                 | 16   |
| 5. Ancillary Equipment List .....                   | 16   |
| 6. Uncertainty Evaluation.....                      | 16   |

**SUMMARY OF TEST RESULT**

| Report Section | FCC Rule | IC Rule | Description           | Limit                                                         | Result | Remark              |
|----------------|----------|---------|-----------------------|---------------------------------------------------------------|--------|---------------------|
| 3.1            | 15.107   | 7.2.2   | AC Conducted Emission | < 15.107 limits<br>< RSS-Gen table 2 limits                   | PASS   | Under limit<br>6 dB |
| 3.2            | 15.109   | 7.2.3.2 | Radiated Emission     | < 15.109 limits or<br>< RSS-Gen table 1 limits<br>(Section 6) | PASS   | Under limit<br>6dB  |

## 1. GENERAL INFORMATION

### 1.1 Applicant

Company Name: Cellon Communications Technology (Shenzhen) Co.,Ltd.

Address: 13/F, Skyworth C Building, Gaoxin S.Ave1, Hi-Tech Industrial Park, Nanshan District,

### 1.2 Manufacturer

Company Name: Cellon Communications Technology (Shenzhen) Co.,Ltd.

Address: 13/F, Skyworth C Building, Gaoxin S.Ave1, Hi-Tech Industrial Park, Nanshan District,

### 1.3 Feature of Equipment Under Test

| Product Feature & Specification |                                                                                                                                                                                                                                                  |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment                       | Handset                                                                                                                                                                                                                                          |
| Brand Name                      | CLARO\PCD                                                                                                                                                                                                                                        |
| Model Name                      | A1536,PCD1361EC,PCD1361ECR,CL1361EC,CL1361ECR,PCD1361,CL1361EN,CL1361,TE1361,PCD1361PE,PCD1361AL,PCD1361,CL,PCD1361PO,PCD1361MV,PCD1361OM,PCD1361MX,TE1361PE,AL1361AL,CL1361CL,CL1361PO,MV1361MV,TE1361MX;CL1361CA;PCD1361BR;PCD1361AR;PCD1361CP |
| FCC ID                          | T38PCD1536                                                                                                                                                                                                                                       |
| HW Version                      | P2                                                                                                                                                                                                                                               |
| SW Version                      | PCD1361Digicel_JA_1.1                                                                                                                                                                                                                            |

#### Remark:

1. For other wireless features of this EUT, test report will be issued separately.
2. This test report recorded only product characteristics and test results of JBP.
3. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

### 1.4 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2003

#### Remark:

All test items were verified and recorded according to the standards and without any deviation during the test.

## 2. Test Configuration of Equipment Under Test

### 2.1 Test Modes

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

#### Abbreviations:

- EMI AC: AC conducted emissions
- EMI RE  $\geq$  1G: EUT radiated emissions  $\geq$  1GHz
- EMI RE  $<$  1G: EUT radiated emissions  $<$  1GHz

| Test Item                    | Function Type                                                                    |
|------------------------------|----------------------------------------------------------------------------------|
| <b>AC Conducted Emission</b> | Mode 1: GSM 850 Idle + Bluetooth Idle + Battery + LCD monitor+ Notebook+ Adapter |

| Test Item                                       | Function Type                                                                    |
|-------------------------------------------------|----------------------------------------------------------------------------------|
| <b>RadiatedEmissions <math>&lt;</math> 1GHz</b> | Mode 1: GSM 850 Idle + Bluetooth Idle + Battery + LCD monitor+ Notebook+ Adapter |

| Test Item                                       | Function Type                                                                    |
|-------------------------------------------------|----------------------------------------------------------------------------------|
| <b>RadiatedEmissions <math>&gt;</math> 1GHz</b> | Mode 1: GSM 850 Idle + Bluetooth Idle + Battery + LCD monitor+ Notebook+ Adapter |

### 2.2 Testing Environment

| Items            | Ambient Temperature | Relative Humidity | Test Distance |
|------------------|---------------------|-------------------|---------------|
| Normal Condition | 22~24°C             | 35~60%            | 3m            |

### 3. Test Result

#### 3.1 Test of AC Conducted Emission Measurement

##### 3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of emission<br>(MHz) | Conducted limit (dBuV) |           |
|--------------------------------|------------------------|-----------|
|                                | Quasi-peak             | Average   |
| 0.15-0.5                       | 66 to 56*              | 56 to 46* |
| 0.5-5                          | 56                     | 46        |
| 5-30                           | 60                     | 50        |

\*Decreases with the logarithm of the frequency.

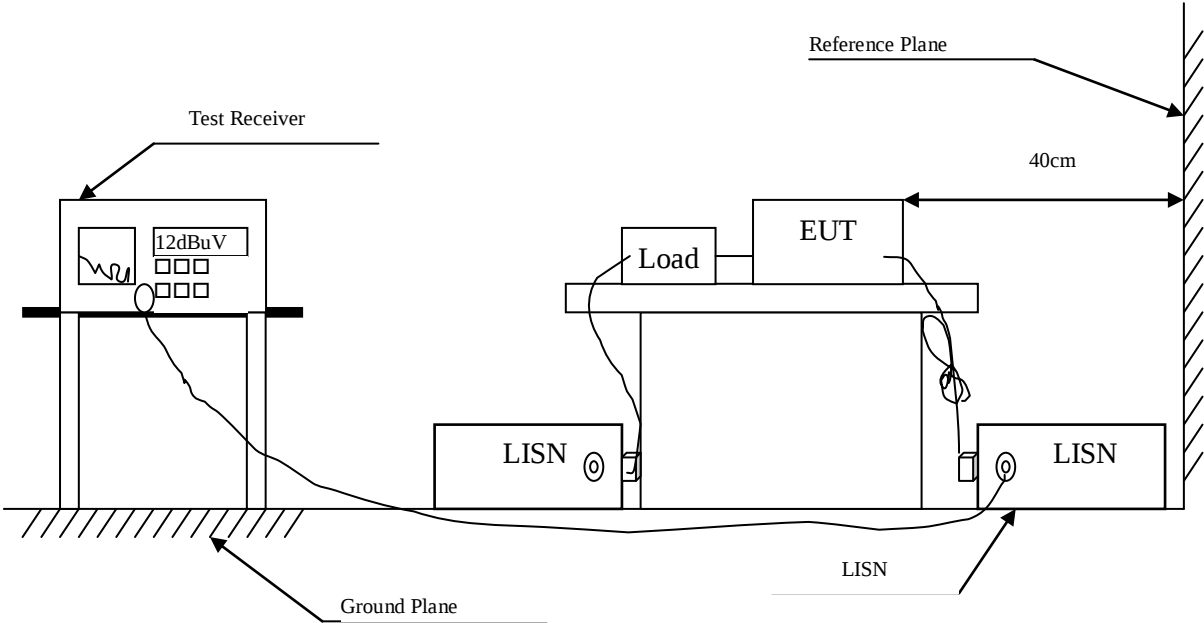
##### 3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

##### 3.1.3 Test Procedure

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (RBW=9kHz and VBW=30kHz) with Maximum Hold Mode for QP limit measurement.
9. Set the test-receiver system to Average Detect Function and specified bandwidth (RBW=9kHz and VBW=30kHz) with Maximum Hold Mode for QP limit measurement.

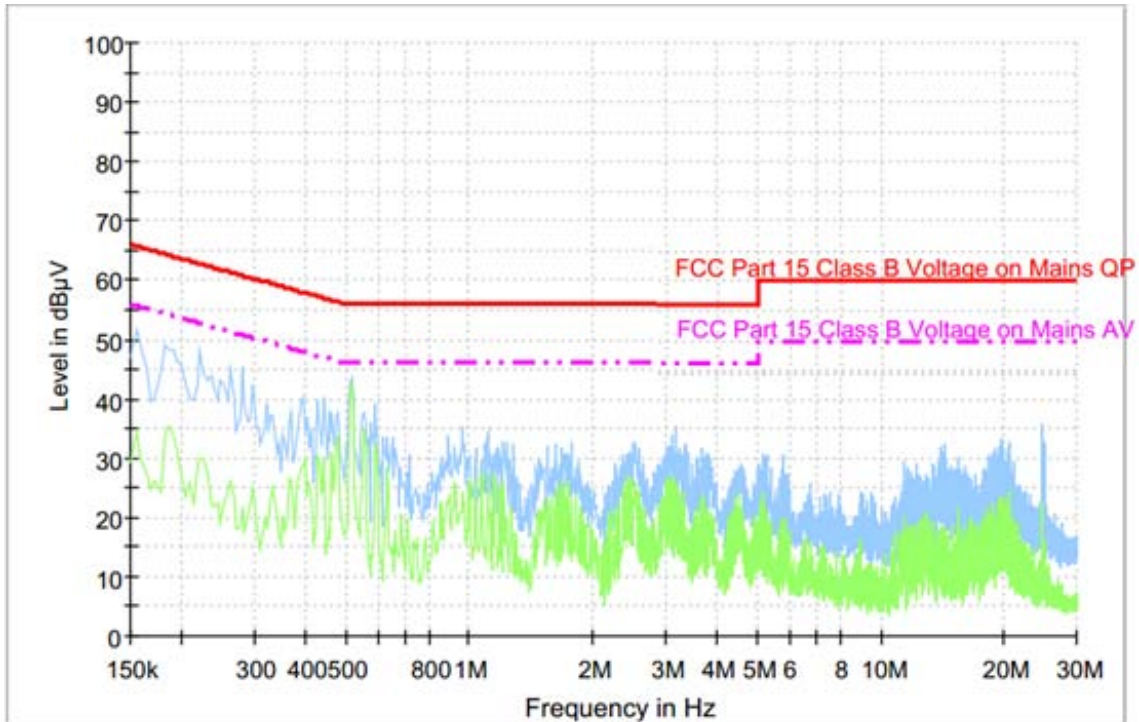
3.1.4 Test Setup



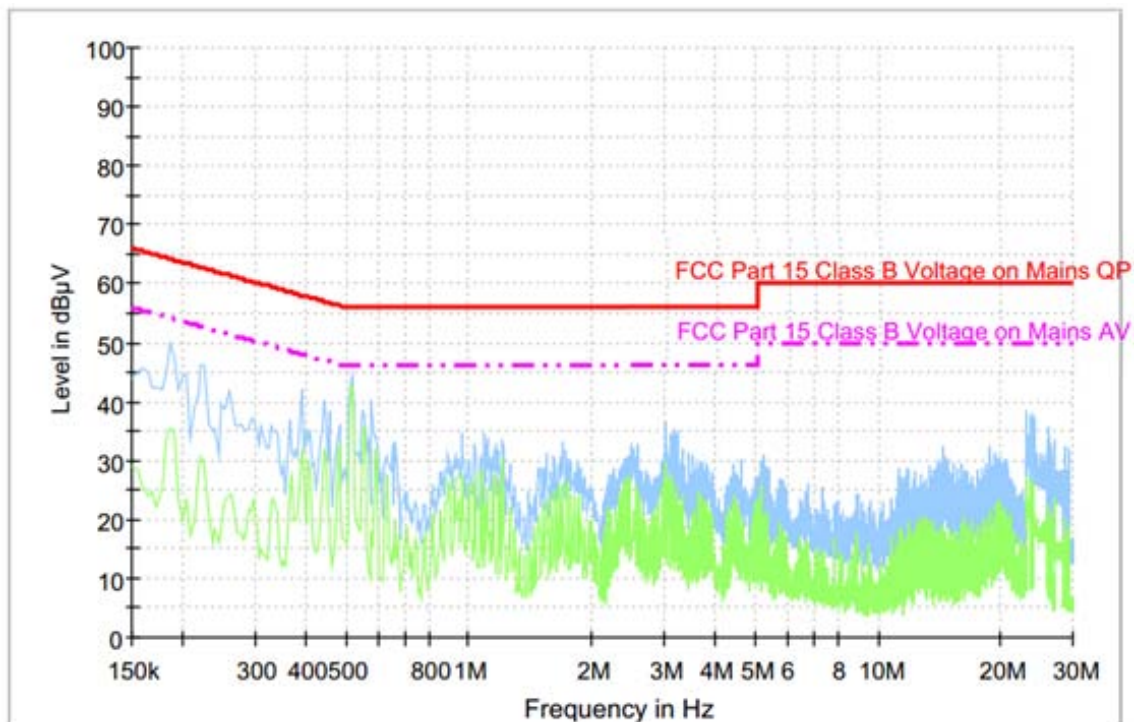
### 3.1.5 Test Result of AC Conducted Emission

Test Voltage:120V/60Hz

Mode 1: GSM 850 Idle + Bluetooth Idle + Battery + LCD monitor+ Notebook+ Adapter +Neutral



Mode 1: GSM 850 Idle + Bluetooth Idle + Battery + LCD monitor+ Notebook+ Adapter + Line



## 3.2 Test of Radiated Emission Measurement

### 3.2.1 Limit of Radiated Emission

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table

| Frequency<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                                |

### 3.2.2 Measuring Instruments

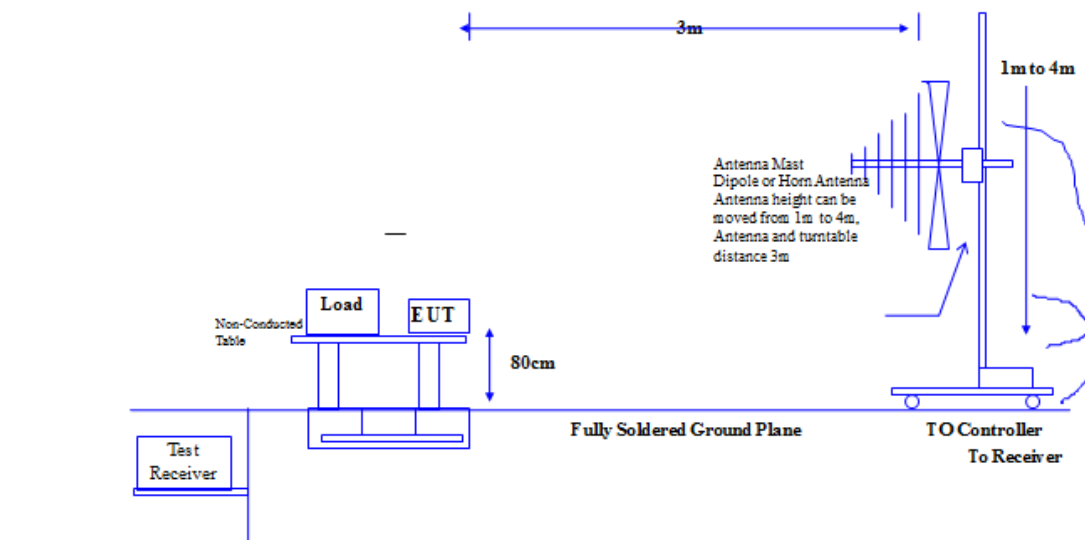
See list of measuring instruments of this test report.

### 3.2.3 Test Procedure

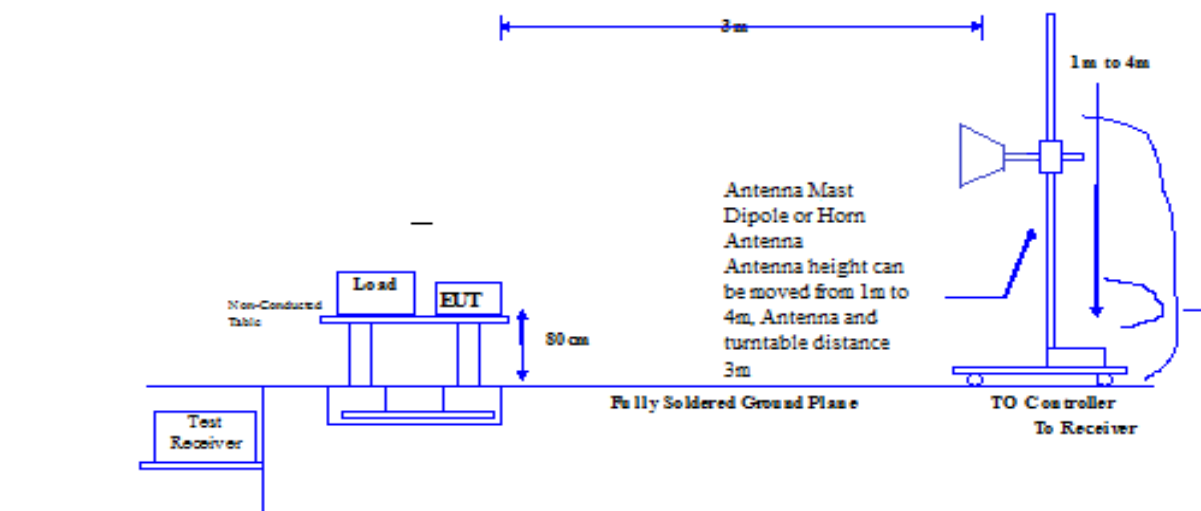
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth (RBW=120kHz and VBW=300kHz with Maximum Hold Mode.
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported
8. Emission level (dBuV/m) = 20 log Emission level (uV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

### 3.2.4 Test Setup

30MHz~1GHz



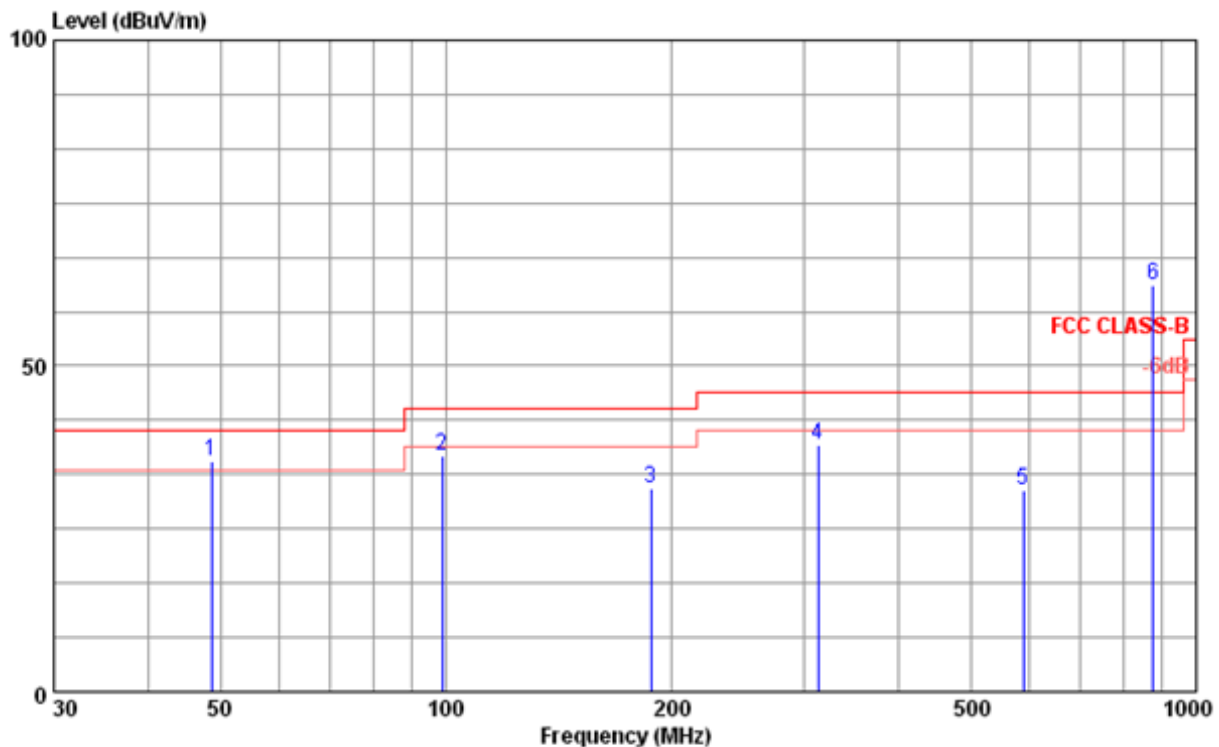
Above 1GHz



### 3.2.5 Test Result of Radiated Emission

Test Distance : 3m

Mode 1: GSM 850 Idle + Bluetooth Idle + Battery + LCD monitor+ Notebook+ Adapter + Vertical

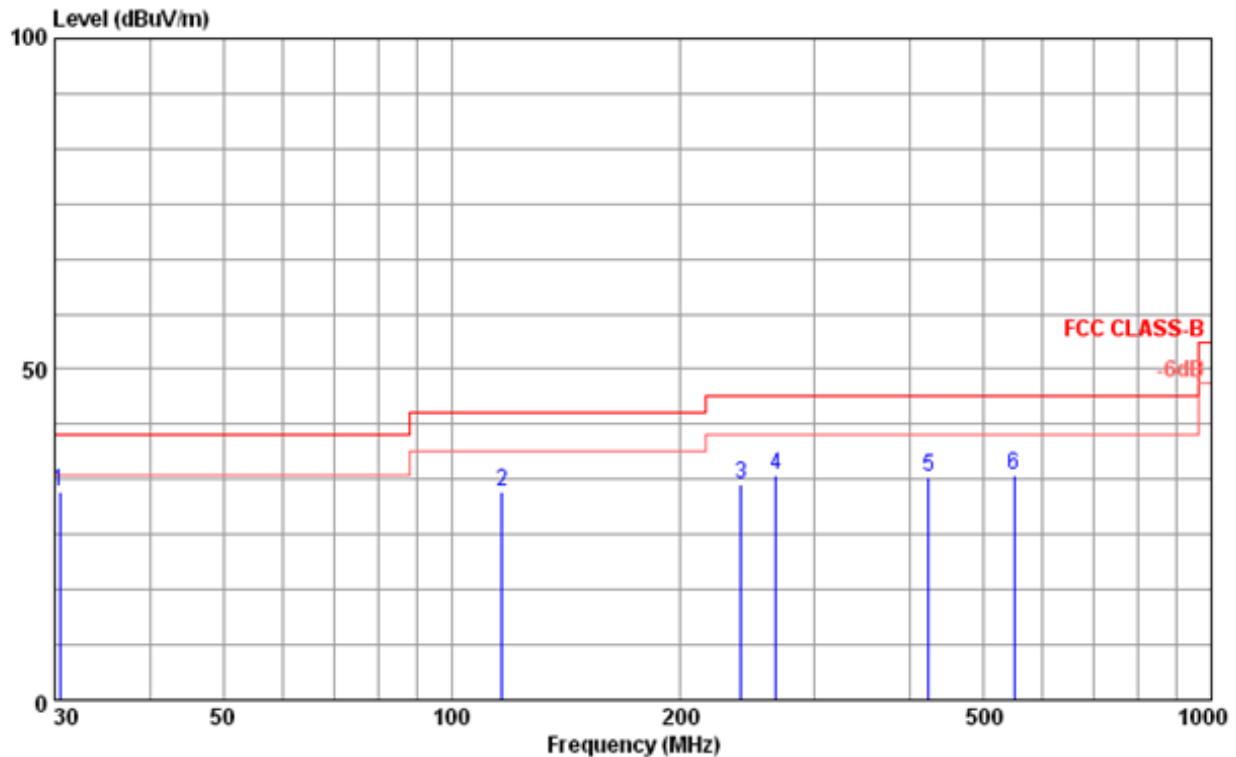


Site : 966 CHAMBER  
 Condition: FCC CLASS-B 3m HL562 VERTICAL  
 : RBW:120.000KHz VBW:300.000KHz SWT:Auto  
 eut : GSM MOBILE PHONE  
 mode : GSM850+Bluetooth Idle+NB+LCD  
 memo : A1536

|   | Freq   | Remark | Level  | Read  | Limit  | Over   |           |
|---|--------|--------|--------|-------|--------|--------|-----------|
|   | MHz    |        | dBuV/m | Level | Line   | Limit  | Pol/Phase |
|   |        |        |        | dBuV  | dBuV/m | dB     |           |
| 1 | 48.62  | QP     | 35.30  | 25.53 | 40.00  | -4.70  | VERTICAL  |
| 2 | 98.65  | QP     | 36.20  | 25.69 | 43.50  | -7.30  | VERTICAL  |
| 3 | 187.51 | QP     | 31.20  | 21.52 | 43.50  | -12.30 | VERTICAL  |
| 4 | 312.76 | Peak   | 38.02  | 23.72 | 46.00  | -7.98  | VERTICAL  |
| 5 | 588.24 | Peak   | 30.81  | 10.03 | 46.00  | -15.19 | VERTICAL  |
| 6 | 876.33 | Peak   | 62.51  | 37.25 | 46.00  | 16.51  | VERTICAL  |

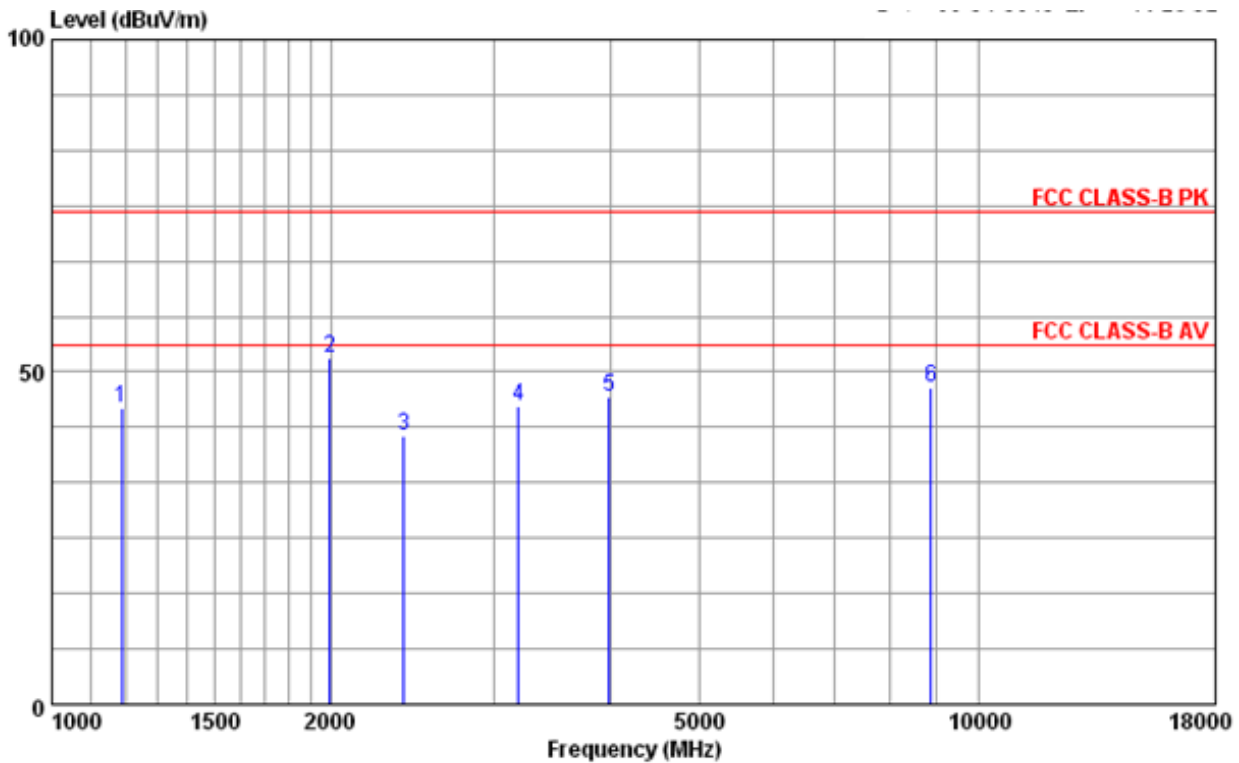
Remark: #6 is communication signals which can be ignored.

Mode 1: GSM 850 Idle + Bluetooth Idle + Battery + LCD monitor+ Notebook+ Adapter + Horizontal



Site : 966 CHAMBER  
 Condition: FCC CLASS-B 3m HL562 HORIZONTAL  
 : RBW:120.000KHz VBW:300.000KHz SWT:Auto  
 eut : GSM MOBILE PHONE  
 mode : GSM850+Bluetooth Idle+NB+LCD  
 memo : A1536

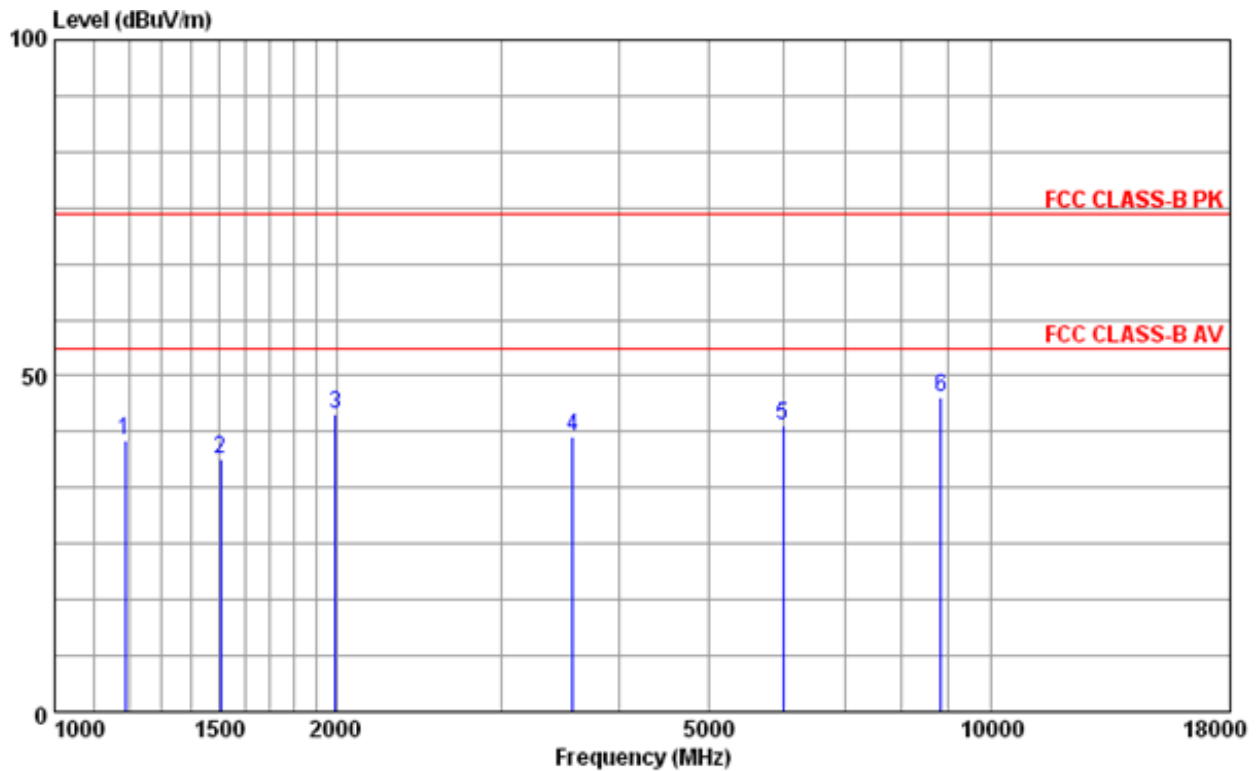
|   | Freq   | Remark | Level  | Read  | Limit  | Over   |            |
|---|--------|--------|--------|-------|--------|--------|------------|
|   | MHz    |        | dBuV/m | Level | Line   | Limit  | Pol/Phase  |
|   |        |        |        | dBuV  | dBuV/m | dB     |            |
| 1 | 30.46  | Peak   | 31.38  | 11.33 | 40.00  | -8.62  | HORIZONTAL |
| 2 | 116.33 | Peak   | 31.47  | 20.37 | 43.50  | -12.03 | HORIZONTAL |
| 3 | 240.01 | Peak   | 32.56  | 20.97 | 46.00  | -13.44 | HORIZONTAL |
| 4 | 267.17 | Peak   | 33.97  | 21.35 | 46.00  | -12.03 | HORIZONTAL |
| 5 | 424.31 | Peak   | 33.79  | 16.50 | 46.00  | -12.21 | HORIZONTAL |
| 6 | 550.41 | Peak   | 34.02  | 13.94 | 46.00  | -11.98 | HORIZONTAL |

**Radiated Emission above 1GHz****Test Distance : 3m****Mode 1: GSM 850 Idle + Bluetooth Idle + Battery + LCD monitor+ Notebook+ Adapter + Vertical**

Site : 966 CHAMBER  
 Condition: FCC CLASS-B PK 3m HF906 VERTICAL  
 : RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
 eut : GSM MOBILE PHONE  
 mode : GSM850+Bluetooth Idle+NB+LCD  
 memo : A1536

|   | Freq    | Remark | Level  | Read  | Limit  | Over   |           |
|---|---------|--------|--------|-------|--------|--------|-----------|
|   | MHz     |        | dBuV/m | Level | Line   | Limit  | Pol/Phase |
|   |         |        |        | dBuV  | dBuV/m | dB     |           |
| 1 | 1188.70 | Peak   | 44.52  | 17.42 | 74.00  | -29.48 | VERTICAL  |
| 2 | 1993.82 | Peak   | 52.04  | 20.79 | 74.00  | -21.96 | VERTICAL  |
| 3 | 2396.38 | Peak   | 40.46  | 8.47  | 74.00  | -33.54 | VERTICAL  |
| 4 | 3188.92 | Peak   | 44.96  | 10.19 | 74.00  | -29.04 | VERTICAL  |
| 5 | 3994.04 | Peak   | 46.20  | 8.80  | 74.00  | -27.80 | VERTICAL  |
| 6 | 8887.66 | Peak   | 47.55  | 1.97  | 74.00  | -26.45 | VERTICAL  |

Mode 1: GSM 850 Idle + Bluetooth Idle + Battery + LCD monitor+ Notebook+ Adapter + Horizontal



Site : 966 CHAMBER  
 Condition: FCC CLASS-B PK 3m HF906 HORIZONTAL  
 : RBW:1000.000KHz VBW:1000.000KHz SWT:Auto  
 eut : GSM MOBILE PHONE  
 mode : GSM850+Bluetooth Idle+NB+LCD  
 memo : A1536

|   | Freq    | Remark | Level  | Read  | Limit  | Over   |            |
|---|---------|--------|--------|-------|--------|--------|------------|
|   | MHz     |        | dBUV/m | Level | Line   | Limit  | Pol/Phase  |
|   |         |        |        | dBuV  | dBUV/m | dB     |            |
| 1 | 1188.70 | Peak   | 40.51  | 13.41 | 74.00  | -33.49 | HORIZONTAL |
| 2 | 1503.20 | Peak   | 37.58  | 9.21  | 74.00  | -36.42 | HORIZONTAL |
| 3 | 1993.82 | Peak   | 44.22  | 12.97 | 74.00  | -29.78 | HORIZONTAL |
| 4 | 3578.90 | Peak   | 41.04  | 4.57  | 74.00  | -32.96 | HORIZONTAL |
| 5 | 5994.26 | Peak   | 42.73  | 1.33  | 74.00  | -31.27 | HORIZONTAL |
| 6 | 8849.92 | Peak   | 46.67  | 1.11  | 74.00  | -27.33 | HORIZONTAL |

#### 4. List of Measuring Equipment

| No | Instrument/Ancillary | Provider      | Type/Model                | Cal. Date  |
|----|----------------------|---------------|---------------------------|------------|
| 01 | Base Station         | Agilent       | E5515C                    | 2011.12.14 |
| 02 | Spectrum Analyzer    | R&S           | FSP30(9kHz~30GHz)         | 2012.07.19 |
| 03 | Antenna              | Schwarzbeck   | VULB9165(30M-1G)          | 2011.11.09 |
| 04 | Antenna              | Schaffner     | HLA6120(9KHz~30MHz)       | 2011.11.09 |
| 05 | Antenna              | R&S           | HF906(1G-18G)             | 2012.08.02 |
| 06 | Antenna              | Schwarzbeck   | BBHA 9170 (15G-26.5G)     | 2011.11.09 |
| 07 | High Pass Filter     | R&S           | System Integrated         | 2011.11.14 |
| 08 | Thermal chamber      | Hitachi       | EC- 85MHP                 | 2011.12.25 |
| 09 | Pre-Amplifier        | Agilent       | 83006A(0.01GHz-26.5GHz)   | 2012.8.06  |
| 10 | Pre-Amplifier        | Agilent       | 83006A(0.01GHz-26.5GHz)   | 2012.8.06  |
| 11 | Helical Antenna      | ETS           | 3102 (1G-10G )            | NCR        |
| 12 | Power Meter          | R&S           | NRP(10MHz~8GHz)           | 2011.12.05 |
| 13 | Relay Switch         | R&S           | TS-REMI                   | NCR        |
| 14 | Signal Generator     | R&S           | SMR20(10MHz-20 GHz)       | 2011.12.05 |
| 15 | LISN                 | ROHDE&SCHWARZ | ENV216 TWO-LINE V-NETWORK | 2011.11.13 |
| 16 | Power Meter          | Agilent       | E4418B (EPM Series)       | 2011.12.14 |
| 17 | Power Sensor         | Agilent       | E4412A (E-series CW)      |            |

#### 5 Ancillary Equipment List

| Product      | Manufacturer | Model No.  | Serial No. | FCC approval | Power Cord                   |
|--------------|--------------|------------|------------|--------------|------------------------------|
| Notebook PC  | Dell         | PP32LA     | FQWSN2X    | FCC DOC      | N/A                          |
| Adapter (NB) | Dell         | DA90PE3-00 | ADP-90VH D | FCC DOC      | M/N A-1750-09<br>PA -1750-09 |
| LCD Monitor  | HP           | GTM002     | 3CQ84343SG | FCC DOC      | Unshielded 1.8m              |
| Mouse        | Lenovo       | M20        | OL08226936 | FCC DOC      | Unshielded 1.0m              |

#### 6 Uncertainty Evaluation

##### 6.1 Uncertainty of Radiated Spurious Emission evaluation (30MHz~1GHz)

| Radiated Spurious Emission Measurement Uncertainty Evaluation                             |                   |                          |                       |                       |                     |
|-------------------------------------------------------------------------------------------|-------------------|--------------------------|-----------------------|-----------------------|---------------------|
| Contribution                                                                              |                   | Probability Distribution | Partition Coefficient | u(xi)                 |                     |
|                                                                                           |                   |                          |                       | Horizontal 30-1000MHz | Vertical 30-1000MHz |
| Cable Loss Calibration                                                                    | U <sub>01</sub>   | U-Shape                  | 1.41                  | 0.16                  | 0.16                |
| Sine wave voltage accuracy of Spectrum analyzer                                           | U02               | Triangle                 | 2.45                  | 0.82                  | 0.82                |
| Impulse response of spectrum analyzer                                                     | U03               | Triangle                 | 2.45                  | 0.61                  | 0.61                |
| Pulse repetition rate of spectrum analyzer                                                | U04               | Triangle                 | 2.45                  | 0.61                  | 0.61                |
| Spectrum analyzer noise level                                                             | U05               | Normal                   | 2.00                  | 0.25                  | 0.25                |
| Measurement of the signal path mismatch                                                   | U06               | U-Shape                  | 1.41                  | 0.28                  | 0.28                |
| Free-space antenna factor                                                                 | U07               | Normal                   | 2.00                  | 0.70                  | 0.70                |
| Antenna Factor Interpolation for Frequency                                                | U08               | Rectangular              | 1.73                  | 0.17                  | 0.17                |
| Antenna factor with height in the correlation                                             | U09               | Rectangular              | 1.73                  | 0.17                  | 0.17                |
| Measurement antenna and the absorbing material in the image of the mutual coupling effect | U10               | Rectangular              | 1.73                  | 0.58                  | 0.58                |
| Antenna phase center variation                                                            | U11               | Rectangular              | 1.73                  | 0.13                  | 0.13                |
| Antenna cross polarization response                                                       | U12               | Rectangular              | 1.73                  | 0.52                  | 0.52                |
| Antenna imbalance                                                                         | U13               | Rectangular              | 1.73                  | 0.52                  | 0.52                |
| Test distance error                                                                       | U14               | Rectangular              | 2.45                  | 1.02                  | 1.22                |
| Desktop terrain clearance variation                                                       | U15               | Normal                   | 1.73                  | 0.17                  | 0.17                |
| Random uncertainty                                                                        | U16               | Standard deviation       | 2.00                  | 0.05                  | 0.05                |
| Pre-Amplifier gain Calibration                                                            | U17               | U-Shape                  | 1.00                  | 0.10                  | 0.11                |
| Combined Standard Uncertainty U <sub>c</sub> (y)                                          | U <sub>c</sub>    | Normal                   | 1.00                  | 2.03                  | 2.14                |
| Measuring Uncertainty for a level of Confidence of 95%(U=2U <sub>c</sub> (y))             | U=kU <sub>c</sub> | Normal                   | k                     | 4.05                  | 4.28                |

**6.2 Uncertainty of Radiated Spurious Emission evaluation (1GHz~26.5GHz)**

| Radiated Spurious Emission Measurement Uncertainty Evaluation                             |       |                          |                       |                      |                    |
|-------------------------------------------------------------------------------------------|-------|--------------------------|-----------------------|----------------------|--------------------|
| Contribution                                                                              |       | Probability Distribution | Partition Coefficient | u(xi)                |                    |
|                                                                                           |       |                          |                       | Horizontal 1-26.5GHz | Vertical 1-26.5GHz |
| Cable Loss Calibration                                                                    | U01   | U-Shape                  | 2.00                  | 0.04                 | 0.04               |
| Sine wave voltage accuracy of Spectrum analyzer                                           | U02   | Triangle                 | 2.45                  | 0.82                 | 0.82               |
| Impulse response of spectrum analyzer                                                     | U03   | Triangle                 | 2.45                  | 0.61                 | 0.61               |
| Pulse repetition rate of spectrum analyzer                                                | U04   | Triangle                 | 2.45                  | 0.61                 | 0.61               |
| Spectrum analyzer noise level                                                             | U05   | Normal                   | 2.00                  | 0.25                 | 0.25               |
| Measurement of the signal path mismatch                                                   | U06   | U-Shape                  | 1.41                  | 0.69                 | 0.69               |
| Free-space antenna factor                                                                 | U07   | Normal                   | 2.00                  | 0.50                 | 0.50               |
| Antenna Factor Interpolation for Frequency                                                | U08   | Rectangular              | 1.73                  | 0.17                 | 0.17               |
| Antenna factor with height in the correlation                                             | U09   | Rectangular              | 1.73                  | NA                   | NA                 |
| Measurement antenna and the absorbing material in the image of the mutual coupling effect | U10   | Rectangular              | 1.73                  | 0.58                 | 0.58               |
| Antenna phase center variation                                                            | U11   | Rectangular              | 1.73                  | 0.13                 | 0.13               |
| Antenna cross polarization response                                                       | U12   | Rectangular              | 1.73                  | 0.52                 | 0.52               |
| Antenna imbalance                                                                         | U13   | Rectangular              | 1.73                  | 0.52                 | 0.52               |
| Test distance error                                                                       | U14   | Rectangular              | 2.45                  | 2.36                 | 2.36               |
| Desktop terrain clearance variation                                                       | U15   | Normal                   | 1.73                  | 0.17                 | 0.17               |
| Random uncertainty                                                                        | U16   | Standard deviation       | 2.00                  | 0.05                 | 0.05               |
| Pre-Amplifier gain Calibration                                                            | U17   | U-Shape                  | 1.00                  | 0.09                 | 0.10               |
| Combined Standard Uncertainty Uc(y)                                                       | Uc    | Normal                   | 1.00                  | 2.95                 | 2.96               |
| Measuring Uncertainty for a level of Confidence of 95%(U=2Uc(y))                          | U=kUc | Normal                   | k                     | 5.91                 | 5.92               |

