

## **FCC Report (GSM&WCDMA)**

**Applicant:** MAXCOMM Co., LTD  
**Address of Applicant:** 6Fl, No.120-12,Sec. 3, Zhongshan Road, Zhonghe District.,  
235, New Taipei, China  
**Manufacturer:** MAXCOMM Co., LTD  
**Address of Manufacturer:** 6Fl, No.120-12,Sec. 3, Zhongshan Road, Zhonghe District.,  
235, New Taipei, China  
**Equipment Under Test (EUT)**  
Product Name: 3G FIXED WIRELESS PHONE  
Model No.: MW-33  
Trade mark: MAXCOMM  
**FCC ID:** 2ACKS-MW-33  
**Applicable standards:** FCC CFR Title 47 Part 2: 2017  
FCC CFR Title 47 Part22 Subpart H: 2017  
FCC CFR Title 47 Part24 Subpart E: 2017  
**Date of sample receipt:** January 22, 2018  
**Date of Test:** January 23, 2018-February 02, 2018  
**Date of report issued:** February 08, 2018  
**Test Result :** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



**Robinson Lo**  
**Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

## 1 Version

| Version No. | Date              | Description |
|-------------|-------------------|-------------|
| 00          | February 08, 2018 | Original    |
|             |                   |             |
|             |                   |             |
|             |                   |             |
|             |                   |             |

**Prepared By:**

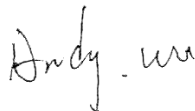


**Date:**

February 08, 2018

**Project Engineer**

**Check By:**



**Date:**

February 08, 2018

**Reviewer**

## 2 Contents

Page

|      |                                                        |    |
|------|--------------------------------------------------------|----|
| 1    | VERSION .....                                          | 2  |
| 2    | CONTENTS .....                                         | 3  |
| 3    | TEST SUMMARY .....                                     | 4  |
| 4    | GENERAL INFORMATION .....                              | 5  |
| 4.1  | GENERAL DESCRIPTION OF EUT .....                       | 5  |
| 4.2  | RELATED SUBMITTAL(S) / GRANT (S) .....                 | 7  |
| 4.3  | TEST METHODOLOGY .....                                 | 7  |
| 4.4  | TEST FACILITY .....                                    | 7  |
| 4.5  | TEST LOCATION .....                                    | 7  |
| 5    | TEST INSTRUMENTS LIST .....                            | 8  |
| 6    | SYSTEM TEST CONFIGURATION .....                        | 9  |
| 6.1  | TEST MODE .....                                        | 9  |
| 6.2  | CONFIGURATION OF TESTED SYSTEM .....                   | 10 |
| 6.3  | CONDUCTED PEAK OUTPUT POWER .....                      | 11 |
| 6.4  | PEAK-TO-AVERAGE RATIO .....                            | 13 |
| 6.5  | OCCUPY BANDWIDTH .....                                 | 15 |
| 6.6  | MODULATION CHARACTERISTIC .....                        | 23 |
| 6.7  | OUT OF BAND EMISSION AT ANTENNA TERMINALS .....        | 23 |
| 6.8  | ERP, EIRP MEASUREMENT .....                            | 33 |
| 6.9  | FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT ..... | 41 |
| 6.10 | FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT ..... | 47 |
| 6.11 | FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT .....     | 51 |
| 7    | TEST SETUP PHOTO .....                                 | 54 |
| 8    | EUT CONSTRUCTIONAL DETAILS .....                       | 55 |

### 3 Test Summary

| Test Item                              | Section in CFR 47                                    | Result                       |
|----------------------------------------|------------------------------------------------------|------------------------------|
| RF Exposure (SAR)                      | Part 1.1307<br>Part 2.1093                           | (Please refer to MPE Report) |
| RF Output Power                        | Part 2.1046<br>Part 22.913 (a)(2)<br>Part 24.232 (c) | Pass                         |
| Peak-to-Average Ratio                  | Part 2.1046<br>Part 24.232 (d)                       | Pass                         |
| Modulation Characteristics             | Part 2.1047                                          | Pass                         |
| 99% & -26 dB Occupied Bandwidth        | Part 2.1049<br>Part 22.917<br>Part 24.238            | Pass                         |
| Spurious Emissions at Antenna Terminal | Part 2.1051<br>Part 22.917 (a)<br>Part 24.238 (a)    | Pass                         |
| Field Strength of Spurious Radiation   | Part 2.1053<br>Part 22.917 (a)<br>Part 24.238 (a)    | Pass                         |
| Out of band emission, Band Edge        | Part 22.917 (a)<br>Part 24.238 (a)                   | Pass                         |
| Frequency stability vs. temperature    | Part 2.1055(a)(1)(b)                                 | Pass                         |
| Frequency stability vs. voltage        | Part 2.1055(d)(1)(2)                                 | Pass                         |

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

## 4 General Information

### 4.1 General Description of EUT

|                    |                                                                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:      | 3G FIXED WIRELESS PHONE                                                                                                                          |
| Model No.:         | MW-33                                                                                                                                            |
| Test sample(s) ID: | GTS201801000031-1                                                                                                                                |
| Sample(s) Status   | Engineer sample                                                                                                                                  |
| Hardware:          | MW-33 V1.0                                                                                                                                       |
| Software:          | MW-33.2017.12.18                                                                                                                                 |
| Support Networks:  | GSM, GPRS, WCDMA                                                                                                                                 |
| Support Bands:     | GSM850, PCS1900, WCDMA Band V, WCDMA Band II                                                                                                     |
| TX Frequency:      | GSM850: 824.20MHz-848.80MHz<br>PCS1900: 1850.20MHz-1909.80MHz<br>WCDMA Band V: 826.40MHz -846.60MHz<br>WCDMA Band II: 1852.40MHz -1907.60MHz     |
| GPRS Class:        | 12                                                                                                                                               |
| Modulation type:   | GSM/GPRS: GMSK<br>WCDMA Band II/V: QPSK                                                                                                          |
| Antenna type:      | Integral antenna                                                                                                                                 |
| Antenna gain:      | GSM850/ WCDMA Band V: 1.53dBi<br>PCS1900/ WCDMA Band II: 2.24dBi                                                                                 |
| Power supply:      | Adapter<br>Model: HYY-0501000u<br>Input: AC 100-240V ,0.25A Max, 50/60Hz<br>Output: DC 5V, 1.0A<br>Or<br>Li-ion Battery: DC 3.7V, 1000mAh(3.7Wh) |

**Operation Frequency List:**

| GSM 850 |                 | PCS1900 |                 | WCDMA Band V |                 | WCDMA Band II |                 |
|---------|-----------------|---------|-----------------|--------------|-----------------|---------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel      | Frequency (MHz) | Channel       | Frequency (MHz) |
| 128     | 824.20          | 512     | 1850.20         | 4132         | 826.40          | 9262          | 1852.40         |
| 129     | 824.40          | 513     | 1850.40         | 4133         | 826.60          | 9263          | 1852.60         |
| · ∴     | · ∴             | · ∴     | · ∴             | · ∴          | · ∴             | · ∴           | · ∴             |
| 189     | 836.40          | 660     | 1879.80         | 4181         | 836.20          | 9399          | 1879.80         |
| 190     | 836.60          | 661     | 1880.00         | 4182         | 836.40          | 9400          | 1880.00         |
| 191     | 836.80          | 662     | 1880.20         | 4183         | 836.60          | 9401          | 1880.20         |
| · ∴     | · ∴             | · ∴     | · ∴             | · ∴          | · ∴             | · ∴           | · ∴             |
| 250     | 848.60          | 809     | 1909.60         | 4232         | 846.40          | 9537          | 1907.40         |
| 251     | 848.80          | 810     | 1909.80         | 4233         | 846.60          | 9538          | 1907.60         |

Regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

**Final test channel:**

| GSM 850 |                 | PCS1900 |                 | WCDMA Band V |                 | WCDMA Band II |                 |
|---------|-----------------|---------|-----------------|--------------|-----------------|---------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel      | Frequency (MHz) | Channel       | Frequency (MHz) |
| 128     | 824.20          | 512     | 1850.20         | 4132         | 826.40          | 9262          | 1852.40         |
| 190     | 836.60          | 661     | 1880.00         | 4183         | 836.60          | 9400          | 1880.00         |
| 251     | 848.80          | 810     | 1909.80         | 4233         | 846.60          | 9538          | 1907.60         |

## 4.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

## 4.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on TIA/EIA 603 and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

## 4.4 Test Facility

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

- **FCC —Registration No.: 381383**

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 381383, January 08, 2018.

- **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, August 15, 2016.

## 4.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

## 5 Test Instruments list

| Item | Test Equipment                       | Manufacturer                   | Model No.                   | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
|------|--------------------------------------|--------------------------------|-----------------------------|---------------|---------------------|-------------------------|
| 1    | 3m Semi- Anechoic Chamber            | ZhongYu Electron               | 9.2(L)*6.2(W)* 6.4(H)       | GTS250        | July. 03 2015       | July. 02 2020           |
| 2    | Control Room                         | ZhongYu Electron               | 6.2(L)*2.5(W)* 2.4(H)       | GTS251        | N/A                 | N/A                     |
| 3    | EMI Test Receiver                    | Rohde & Schwarz                | ESU26                       | GTS203        | June 28 2017        | June 27 2018            |
| 4    | BiConiLog Antenna                    | SCHWARZBECK<br>MESS-ELEKTRONIK | VULB9163                    | GTS214        | June 28 2017        | June 27 2018            |
| 5    | Double -ridged waveguide horn        | SCHWARZBECK<br>MESS-ELEKTRONIK | 9120D-829                   | GTS208        | June 28 2017        | June 27 2018            |
| 6    | Horn Antenna                         | ETS-LINDGREN                   | 3160                        | GTS217        | June 28 2017        | June 27 2018            |
| 7    | EMI Test Software                    | AUDIX                          | E3                          | N/A           | N/A                 | N/A                     |
| 8    | Coaxial Cable                        | GTS                            | N/A                         | GTS213        | June 28 2017        | June 27 2018            |
| 9    | Coaxial Cable                        | GTS                            | N/A                         | GTS211        | June 28 2017        | June 27 2018            |
| 10   | Coaxial cable                        | GTS                            | N/A                         | GTS210        | June 28 2017        | June 27 2018            |
| 11   | Coaxial Cable                        | GTS                            | N/A                         | GTS212        | June 28 2017        | June 27 2018            |
| 12   | Amplifier(100kHz-3GHz)               | HP                             | 8347A                       | GTS204        | June 28 2017        | June 27 2018            |
| 13   | Amplifier(2GHz-20GHz)                | HP                             | 8349B                       | GTS206        | June 28 2017        | June 27 2018            |
| 14   | Amplifier (18-26GHz)                 | Rohde & Schwarz                | AFS33-18002<br>650-30-8P-44 | GTS218        | June 28 2017        | June 27 2018            |
| 15   | Band filter                          | Amindeon                       | 82346                       | GTS219        | June 28 2017        | June 27 2018            |
| 16   | Universal radio communication tester | Rohde & Schwarz                | CMU200                      | GTS235        | June 28 2017        | June 27 2018            |
| 17   | Signal Generator                     | Rohde & Schwarz                | SML03                       | GTS236        | June 28 2017        | June 27 2018            |
| 18   | Temp. Humidity/ Barometer            | Oregon Scientific              | BA-888                      | GTS248        | June 28 2017        | June 27 2018            |
| 19   | D.C. Power Supply                    | Instek                         | PS-3030                     | GTS232        | NA                  | NA                      |
| 20   | Splitter                             | Agilent                        | 11636B                      | GTS237        | June 28 2017        | June 27 2018            |
| 21   | Power meter                          | Rohde & Schwarz                | NRVS                        | GTS238        | June 28 2017        | June 27 2018            |
| 22   | Spectrum Analyzer                    | Agilent                        | E4440A                      | GTS533        | June 28 2017        | June 27 2018            |
| 23   | Temp.&Humidity chamber               | Chuang wei                     | GDS-225                     | GTS005-1      | June 28 2017        | June 27 2018            |
| 24   | Highpass filter                      | Micro-Tronics                  | HPM50108                    | GTS549        | June 28 2017        | June 27 2018            |
| 25   | Highpass filter                      | Micro-Tronics                  | HPM50111                    | GTS550        | June 28 2017        | June 27 2018            |
| 26   | Wideband Radio Communication Tester  | Rohde & Schwarz                | CMW500                      | GTS588        | May 07 2017         | May 06 2018             |

## 6 System test configuration

### 6.1 Test mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

| Test modes          |                                                                                     |                                                                                     |
|---------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Band                | Radiated                                                                            | Conducted                                                                           |
| <b>GSM 850</b>      | <ul style="list-style-type: none"> <li>■ GSM link</li> <li>■ GPRS 1 link</li> </ul> | <ul style="list-style-type: none"> <li>■ GSM link</li> <li>■ GPRS 1 link</li> </ul> |
| <b>PCS 1900</b>     | <ul style="list-style-type: none"> <li>■ GSM link</li> <li>■ GPRS 1 link</li> </ul> | <ul style="list-style-type: none"> <li>■ GSM link</li> <li>■ GPRS 1 link</li> </ul> |
| <b>WCDMA II</b>     | <ul style="list-style-type: none"> <li>■ RMC 12.2Kbps link</li> </ul>               | <ul style="list-style-type: none"> <li>■ RMC 12.2Kbps link</li> </ul>               |
| <b>WCDMA Band V</b> | <ul style="list-style-type: none"> <li>■ RMC 12.2Kbps link</li> </ul>               | <ul style="list-style-type: none"> <li>■ RMC 12.2Kbps link</li> </ul>               |

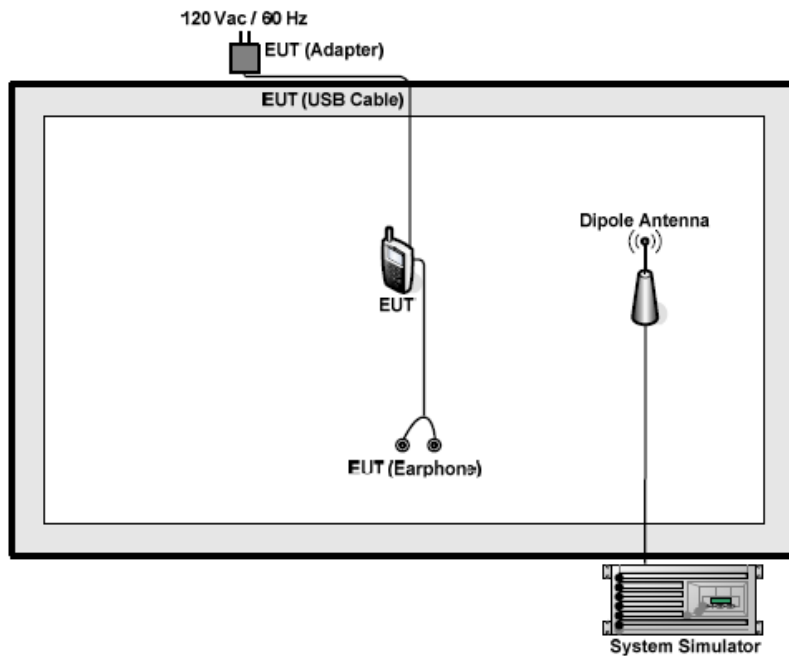
Note: The maximum power levels are GSM mode for GMSK link, GPRS multi-slot class 8 mode for GMSK link, RMC12.2Kbps mode for WCDMA Band V/II. only these modes were used for all tests.

The conducted power tables are as follows:

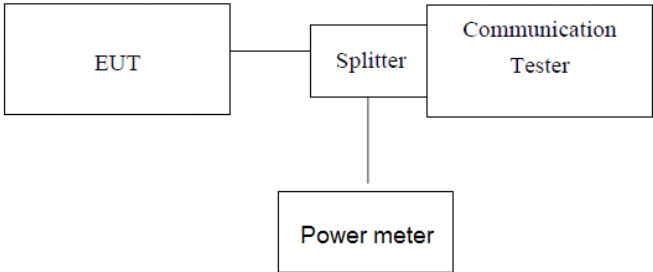
| Conducted Power (dBm)  |        |        |        |         |         |         |
|------------------------|--------|--------|--------|---------|---------|---------|
| Band                   | GSM850 |        |        | PCS1900 |         |         |
| Channel                | 128    | 190    | 251    | 512     | 661     | 810     |
| Frequency              | 824.20 | 836.60 | 848.80 | 1850.20 | 1880.00 | 1909.80 |
| GSM (GMSK, 1 TX slot)  | 31.12  | 31.29  | 31.20  | 27.54   | 27.69   | 27.34   |
| GPRS (GMSK, 1 TX slot) | 30.22  | 30.37  | 30.34  | 26.55   | 26.82   | 26.42   |
| GPRS (GMSK, 2 TX slot) | 29.20  | 29.29  | 29.14  | 25.54   | 25.75   | 25.34   |
| GPRS (GMSK, 3 TX slot) | 28.14  | 28.26  | 28.41  | 24.62   | 24.81   | 24.23   |
| GPRS (GMSK, 4 TX slot) | 28.10  | 28.17  | 28.01  | 23.05   | 23.14   | 23.35   |

| Conducted Power (dBm) |               |        |        |              |       |       |
|-----------------------|---------------|--------|--------|--------------|-------|-------|
| Band                  | WCDMA Band II |        |        | WCDMA Band V |       |       |
| Channel               | 9262          | 9400   | 9538   | 4132         | 4183  | 4233  |
| Frequency             | 1852.4        | 1880.0 | 1907.6 | 826.4        | 836.6 | 846.6 |
| RMC 12.2Kbps          | 22.36         | 22.35  | 22.19  | 22.32        | 22.42 | 22.34 |
| HSDPA Subtest-1       | 22.31         | 22.34  | 22.13  | 22.32        | 22.41 | 22.33 |
| HSDPA Subtest-2       | 21.44         | 21.51  | 21.23  | 21.22        | 21.34 | 21.33 |
| HSDPA Subtest-3       | 21.39         | 21.43  | 21.29  | 21.20        | 21.22 | 21.30 |
| HSDPA Subtest-4       | 21.27         | 21.16  | 21.09  | 21.16        | 21.17 | 21.14 |
| HSUPA Subtest-1       | 22.20         | 22.32  | 22.18  | 22.23        | 22.40 | 22.32 |
| HSUPA Subtest-2       | 21.12         | 21.18  | 21.06  | 21.17        | 21.33 | 21.20 |
| HSUPA Subtest-3       | 21.09         | 21.12  | 20.98  | 21.11        | 21.17 | 21.12 |
| HSUPA Subtest-4       | 21.08         | 21.04  | 21.06  | 21.17        | 21.22 | 21.11 |
| HSUPA Subtest-5       | 21.12         | 21.18  | 21.13  | 21.07        | 21.19 | 21.04 |
| AMR                   | 20.84         | 20.92  | 20.77  | 20.86        | 20.92 | 20.73 |

## 6.2 Configuration of Tested System



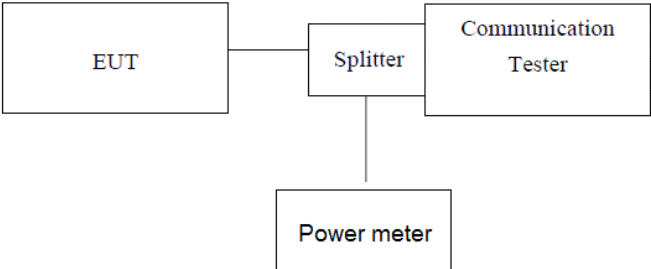
## 6.3 Conducted Peak Output Power

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part22.913(a) and FCC part24.232(b)                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test Method:      | FCC part2.1046                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Limit:            | GSM850, WCDMA Band V: 7W<br>PCS1900, WCDMA Band II: 2W                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test setup:       |  <p><i>Note: Measurement setup for testing on Antenna connector</i></p>                                                                                                                                                                                                                                                                                                                                        |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1. The transmitter output port was connected to base station.</li> <li>2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.</li> <li>3. Set EUT at maximum power through base station.</li> <li>4. Select lowest, middle, and highest channels for each band and different modulation.</li> <li>5. Measure the maximum burst average power.</li> </ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Measurement Data

| EUT Mode                             | Channel | Frequency (MHz) | PK power (dBm) | Limit (dBm) | Result |
|--------------------------------------|---------|-----------------|----------------|-------------|--------|
| GSM 850<br>(GSM link)                | 128     | 824.20          | 31.12          | 38.45       | Pass   |
|                                      | 190     | 836.60          | 31.29          |             |        |
|                                      | 251     | 848.80          | 31.20          |             |        |
| GSM 850<br>(GPRS 1 link)             | 128     | 824.20          | 30.22          | 38.45       | Pass   |
|                                      | 190     | 836.60          | 30.37          |             |        |
|                                      | 251     | 848.80          | 30.34          |             |        |
| PCS 1900<br>(GSM link)               | 512     | 1850.20         | 27.54          | 33.01       | Pass   |
|                                      | 661     | 1880.00         | 27.69          |             |        |
|                                      | 810     | 1909.80         | 27.34          |             |        |
| PCS 1900<br>(GPRS 1 link)            | 512     | 1850.20         | 26.55          | 33.01       | Pass   |
|                                      | 661     | 1880.00         | 26.82          |             |        |
|                                      | 810     | 1909.80         | 26.42          |             |        |
| WCDMA Band V<br>(RMC 12.2Kbps link)  | 4132    | 826.40          | 22.36          | 38.45       | Pass   |
|                                      | 4183    | 836.60          | 22.35          |             |        |
|                                      | 4233    | 846.60          | 22.19          |             |        |
| WCDMA Band II<br>(RMC 12.2Kbps link) | 9262    | 1852.4          | 22.32          | 33.01       | Pass   |
|                                      | 9400    | 1880.0          | 22.42          |             |        |
|                                      | 9538    | 1907.6          | 22.34          |             |        |

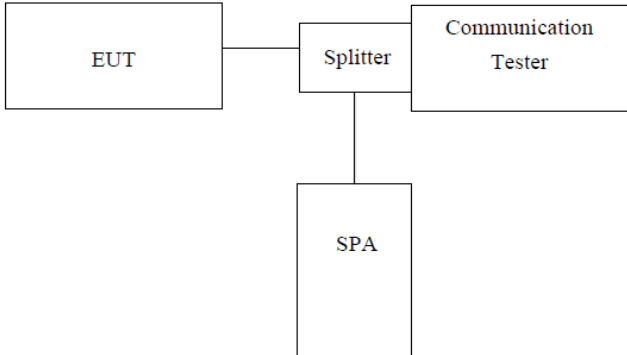
## 6.4 Peak-to-Average Ratio

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part24.232(d)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test Method:      | FCC part2.1046                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Limit:            | 13db                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test setup:       |  <p><i>Note: Measurement setup for testing on Antenna connector</i></p>                                                                                                                                                                                                                                                                                                                                                                                                    |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1. The transmitter output port was connected to base station.</li> <li>2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.</li> <li>3. Set EUT at maximum power through base station.</li> <li>4. Select lowest, middle, and highest channels for each band and different modulation.</li> <li>5. Measure the maximum burst average power.</li> <li>6. Record the maximum peak-to-average ratio value.</li> </ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Measurement data

| Test mode     | Channel | Peak power (dBm) | Average power(dBm) | PAR(dB) | Limit (dB) | Verdict   |
|---------------|---------|------------------|--------------------|---------|------------|-----------|
| GPRS 850      | 824.2   | 31.12            | 31.07              | 0.48    | 13         | Compliant |
|               | 836.6   | 31.29            | 31.15              | 0.65    |            |           |
|               | 848.8   | 31.20            | 31.06              | 0.42    |            |           |
| PCS 1900      | 1850.2  | 27.54            | 27.49              | 0.20    |            |           |
|               | 1880.0  | 27.69            | 27.60              | 0.23    |            |           |
|               | 1909.8  | 27.34            | 27.29              | 0.27    |            |           |
| WCDMA Band V  | 826.4   | 22.36            | 22.22              | 2.87    |            |           |
|               | 836.6   | 22.35            | 22.29              | 2.83    |            |           |
|               | 846.6   | 22.19            | 22.14              | 2.76    |            |           |
| WCDMA Band II | 1852.4  | 22.32            | 22.18              | 2.82    |            |           |
|               | 1880.0  | 22.42            | 22.28              | 2.84    |            |           |
|               | 1907.6  | 22.34            | 22.29              | 2.75    |            |           |

## 6.5 Occupy Bandwidth

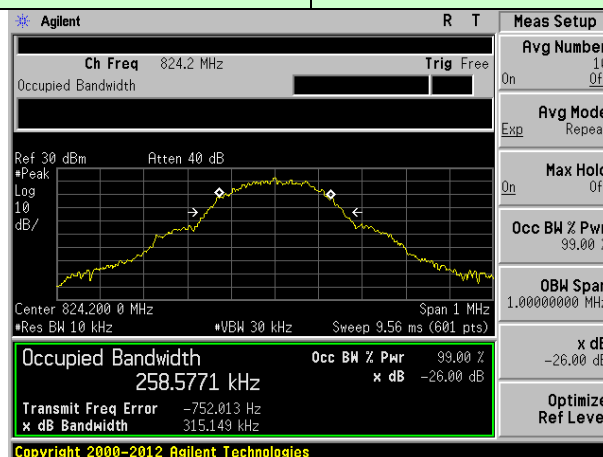
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part22.913(a) and FCC part24.232(b)                                                                                                                                                                                                                                                                                                                                                                                  |
| Test Method:      | FCC part2.1049                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test setup:       |  <p><i>Note: Measurement setup for testing on Antenna connector</i></p>                                                                                                                                                                                                                                                                |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer</li> <li>2. RBW was set to about 1% of emission BW, VBW= 3 times RBW.</li> <li>3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.</li> </ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                         |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                         |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Measurement Data

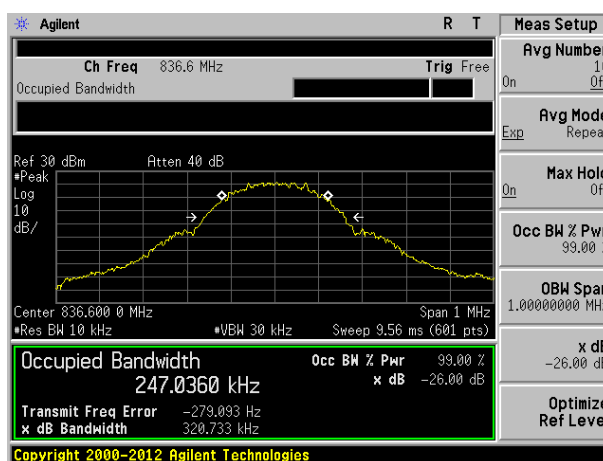
| EUT Mode                             | Channel | Frequency (MHz) | 99% Occupy bandwidth (KHz) | -26dB bandwidth (KHz) |
|--------------------------------------|---------|-----------------|----------------------------|-----------------------|
| GSM 850<br>(GSM link)                | 128     | 824.20          | 258.5771                   | 315.149               |
|                                      | 190     | 836.60          | 247.0360                   | 320.733               |
|                                      | 251     | 848.80          | 248.3506                   | 326.065               |
| GSM 850<br>(GPRS 1 link)             | 128     | 824.20          | 242.4725                   | 319.026               |
|                                      | 190     | 836.60          | 241.9839                   | 312.983               |
|                                      | 251     | 848.80          | 243.3976                   | 315.539               |
| PCS 1900<br>(GSM link)               | 512     | 1850.20         | 246.6775                   | 324.124               |
|                                      | 661     | 1880.00         | 248.7540                   | 315.493               |
|                                      | 810     | 1909.80         | 246.3567                   | 315.296               |
| PCS 1900<br>(GPRS 1 link)            | 512     | 1850.20         | 242.4836                   | 307.050               |
|                                      | 661     | 1880.00         | 247.5685                   | 318.772               |
|                                      | 810     | 1909.80         | 246.1082                   | 308.687               |
| WCDMA Band V<br>(RMC 12.2Kbps link)  | 4132    | 826.40          | 4101.50                    | 4679.00               |
|                                      | 4183    | 836.60          | 4089.30                    | 4679.00               |
|                                      | 4233    | 846.60          | 4106.80                    | 4657.00               |
| WCDMA Band II<br>(RMC 12.2Kbps link) | 9262    | 1852.4          | 4100.00                    | 4696.00               |
|                                      | 9400    | 1880.0          | 4111.30                    | 4688.00               |
|                                      | 9538    | 1907.6          | 4109.80                    | 4678.00               |

Test plot as follows:

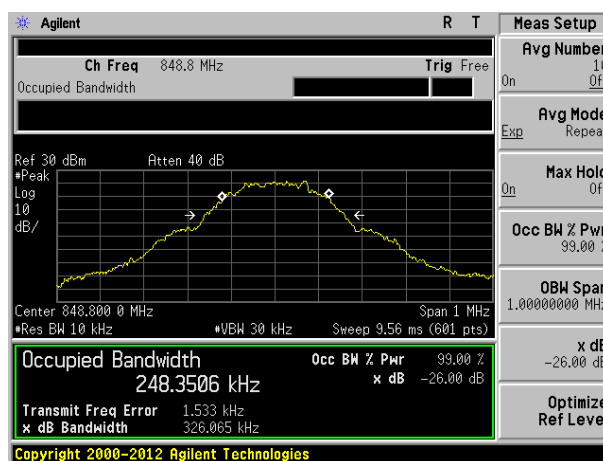
|            |                    |
|------------|--------------------|
| Test band: | GSM 850 (GSM link) |
|------------|--------------------|



Lowest channel

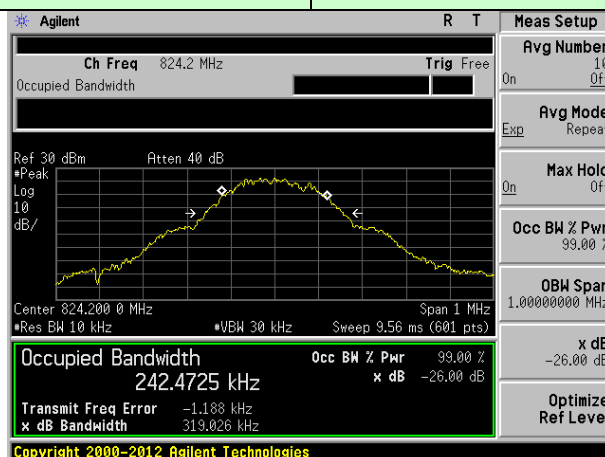


Middle channel

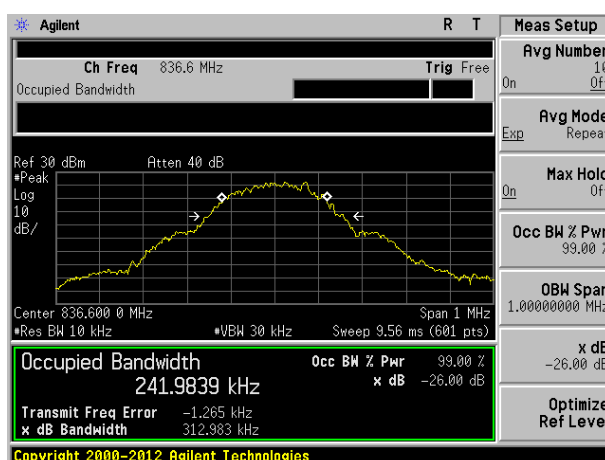


Highest channel

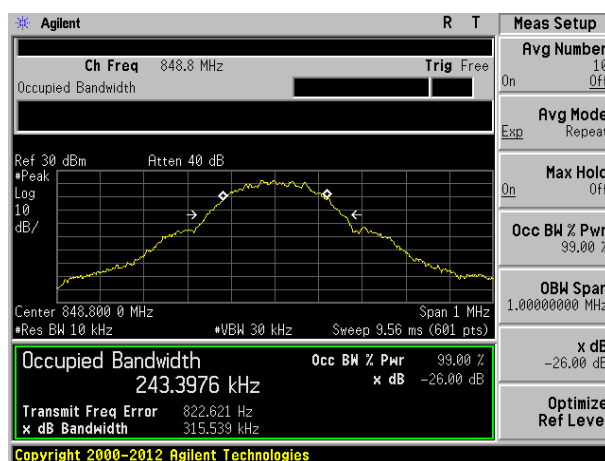
|            |                       |
|------------|-----------------------|
| Test band: | GSM 850 (GPRS 1 link) |
|------------|-----------------------|



Lowest channel

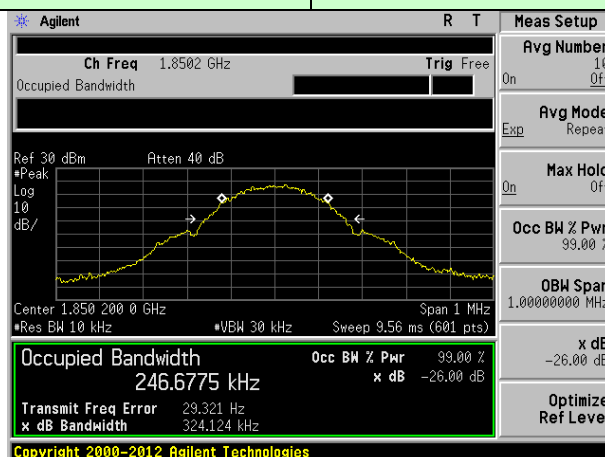


Middle channel

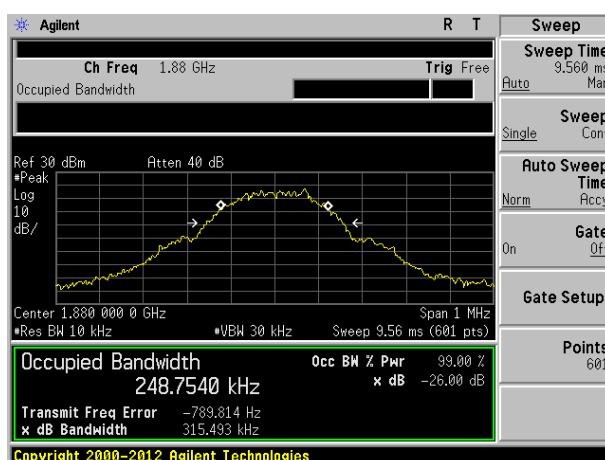


Highest channel

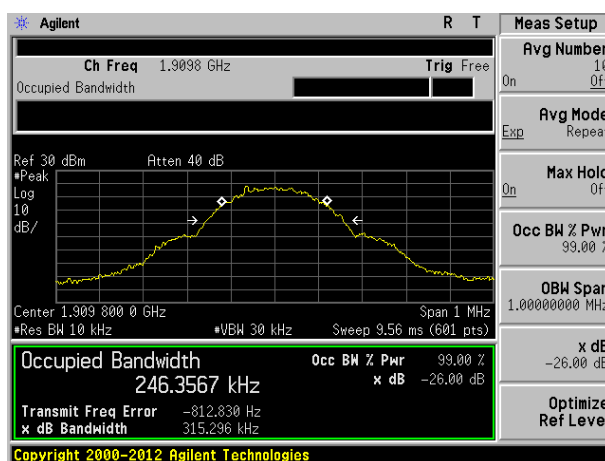
|            |                     |
|------------|---------------------|
| Test band: | PCS 1900 (GSM link) |
|------------|---------------------|



Lowest channel

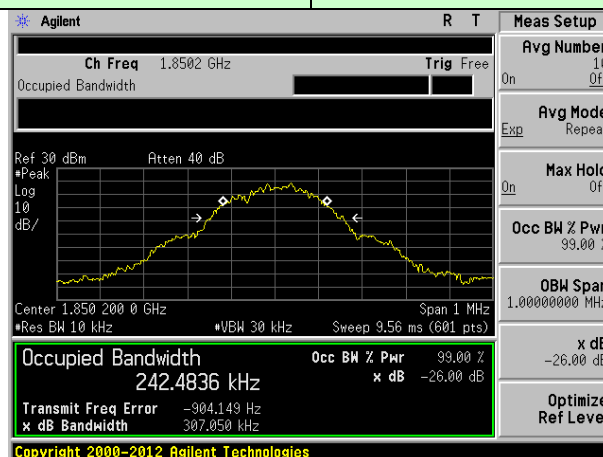


Middle channel

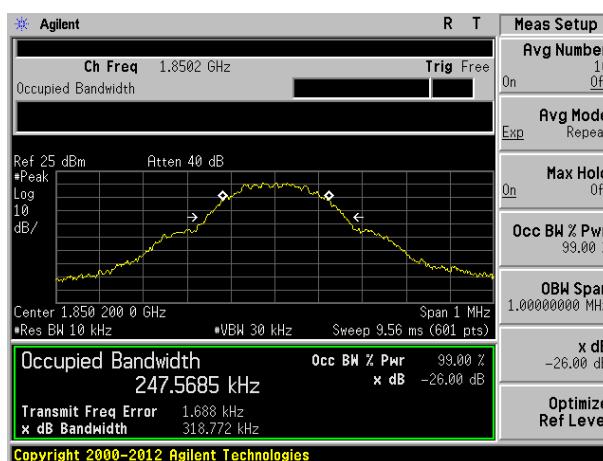


Highest channel

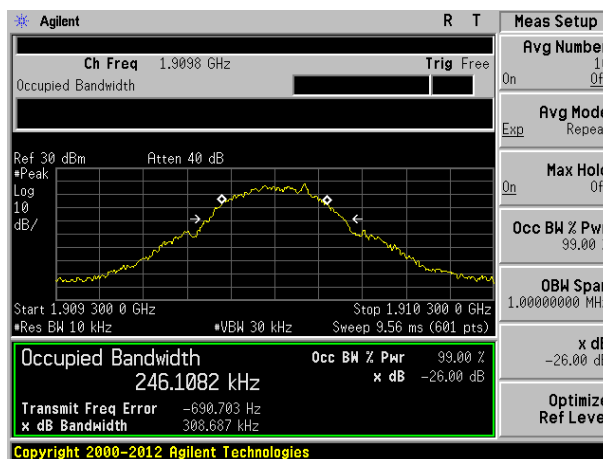
|            |                        |
|------------|------------------------|
| Test band: | PCS 1900 (GPRS 1 link) |
|------------|------------------------|



Lowest channel

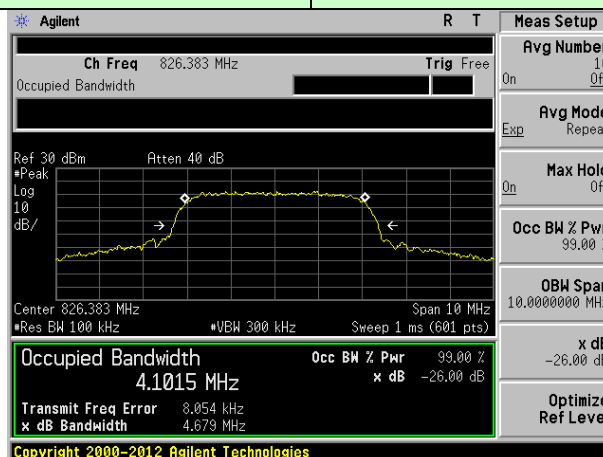


Middle channel

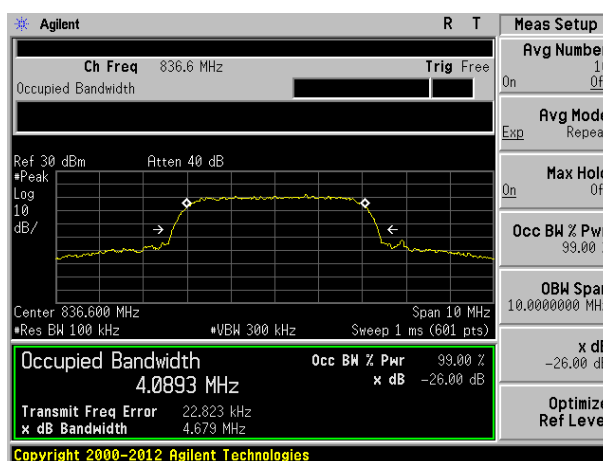


Highest channel

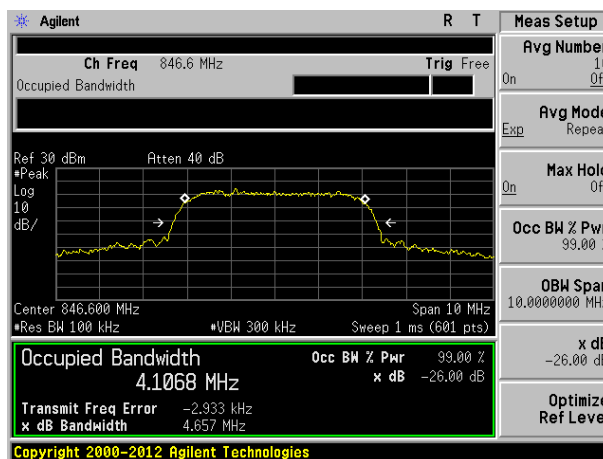
|            |                                  |
|------------|----------------------------------|
| Test band: | WCDMA Band V (RMC 12.2Kbps link) |
|------------|----------------------------------|



Lowest channel

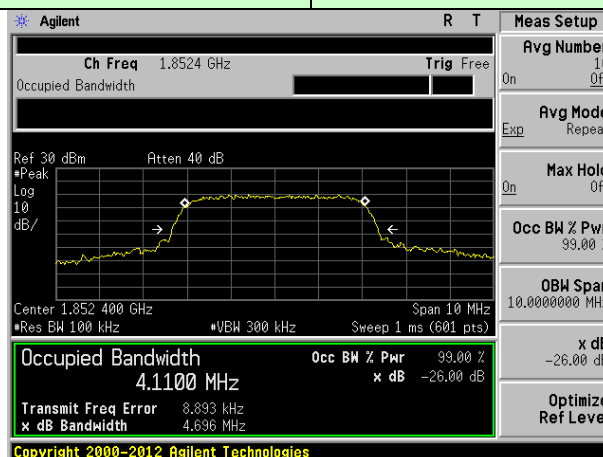


Middle channel

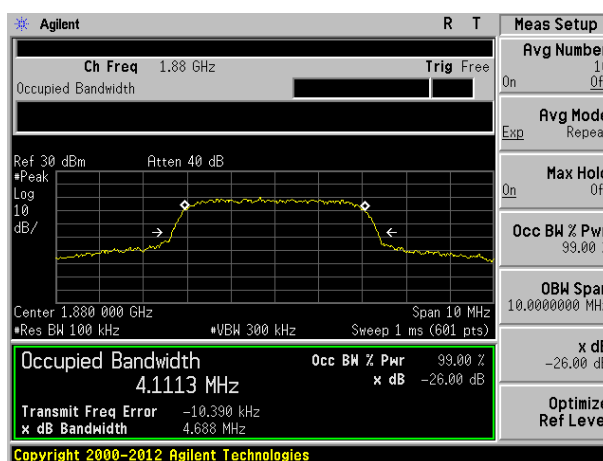


Highest channel

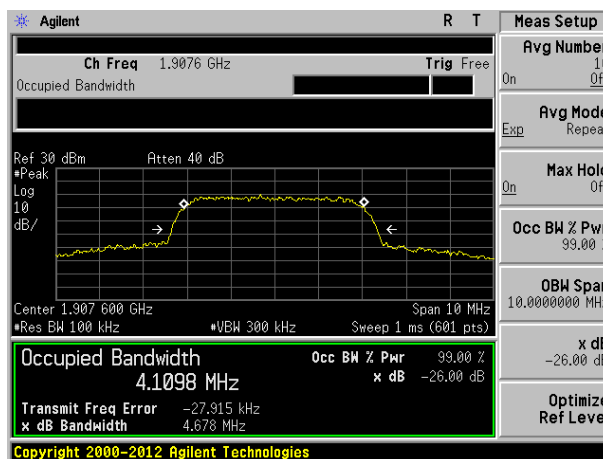
|            |                                   |
|------------|-----------------------------------|
| Test band: | WCDMA Band II (RMC 12.2Kbps link) |
|------------|-----------------------------------|



Lowest channel



Middle channel

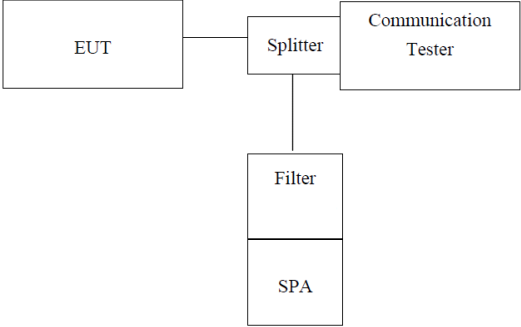


Highest channel

## 6.6 MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

## 6.7 Out of band emission at antenna terminals

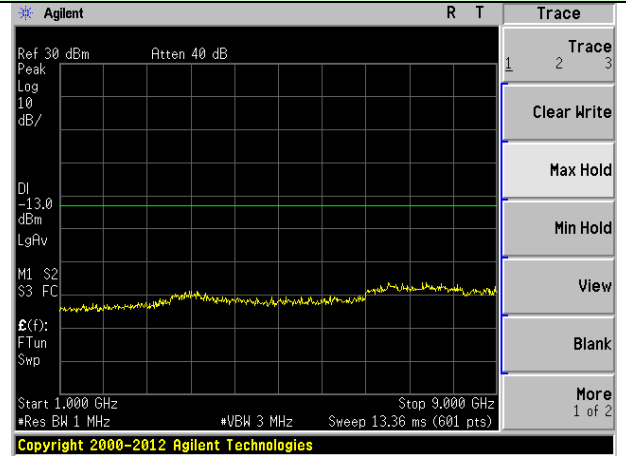
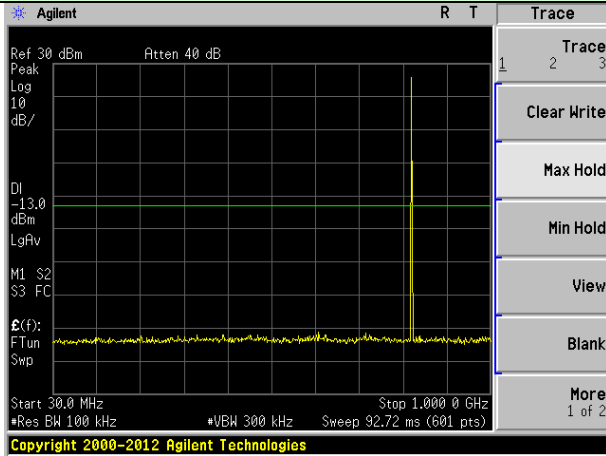
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part22.917(a) and FCC part24.238(a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Test Method:      | FCC part2.1051                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Limit:            | -13dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test setup:       |  <p><i>Note: Measurement setup for testing on Antenna connector</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Test Procedure:   | <ol style="list-style-type: none"> <li>1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.</li> <li>2 The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.</li> <li>3 For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10th harmonic.</li> <li>4 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.</li> </ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

Test plot as follows:

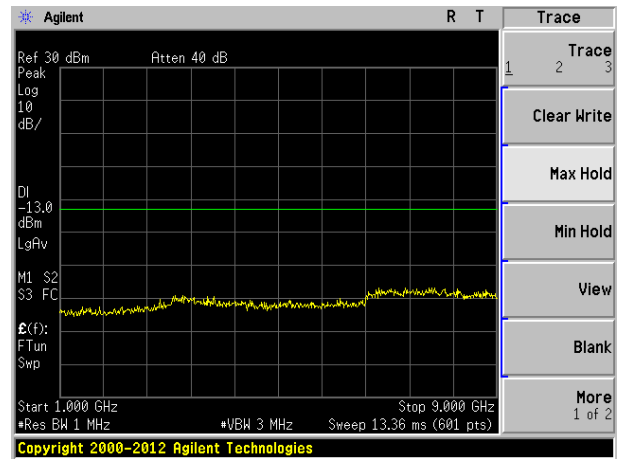
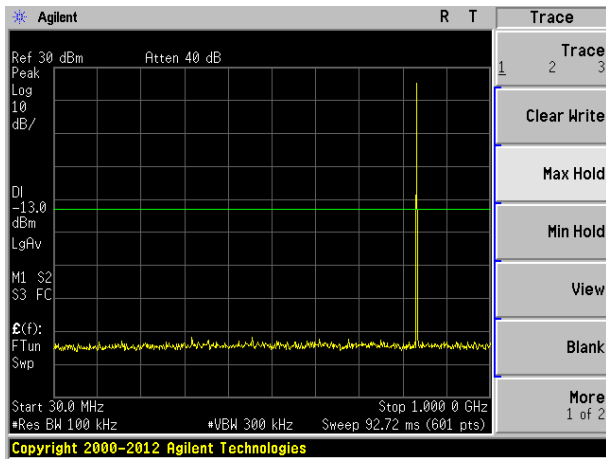
Note: During the conducted spurious emission test, a band filter was used. The information of the filter is reported at section 6.0 (refer to item 24, 25).

Test Mode: Traffic mode

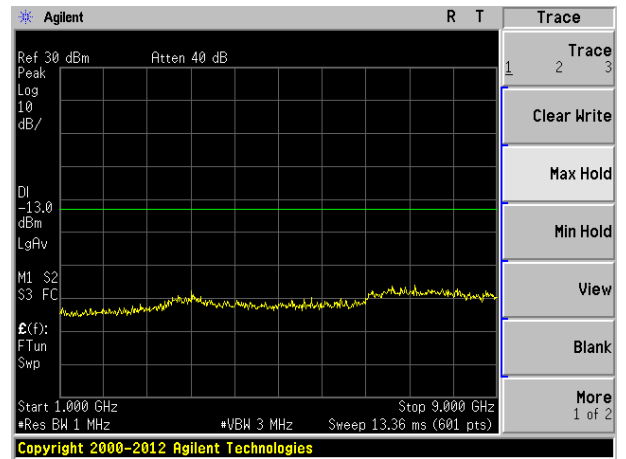
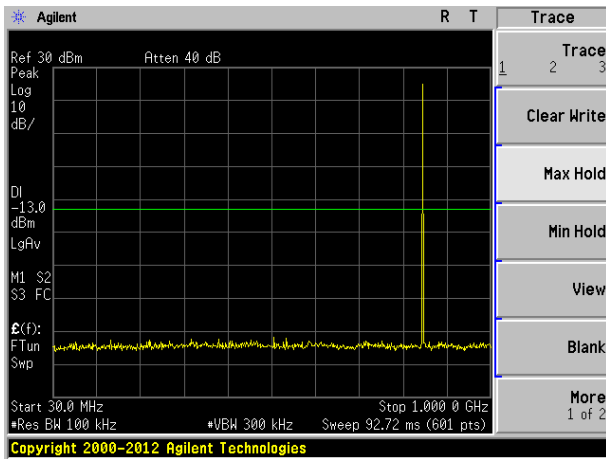
GSM 850 (GSM link)



Lowest channel



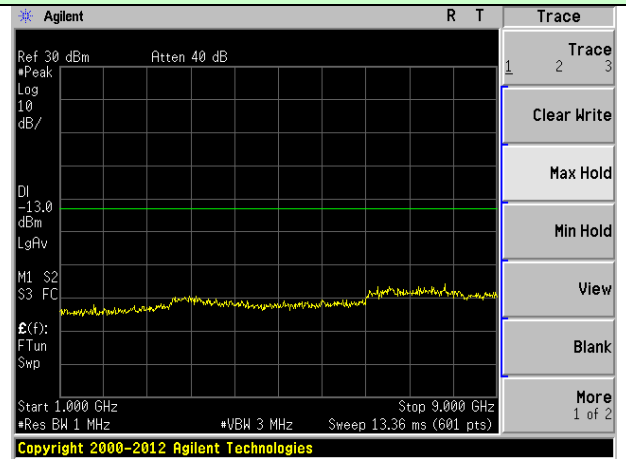
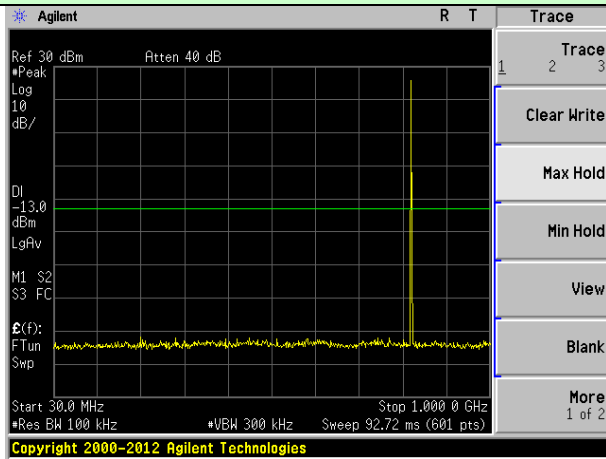
Middle channel



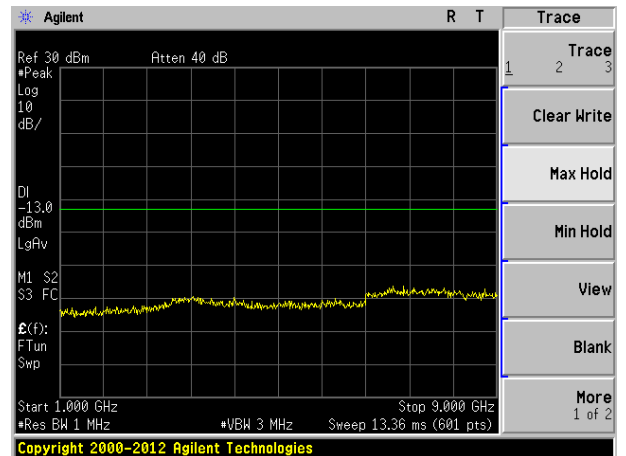
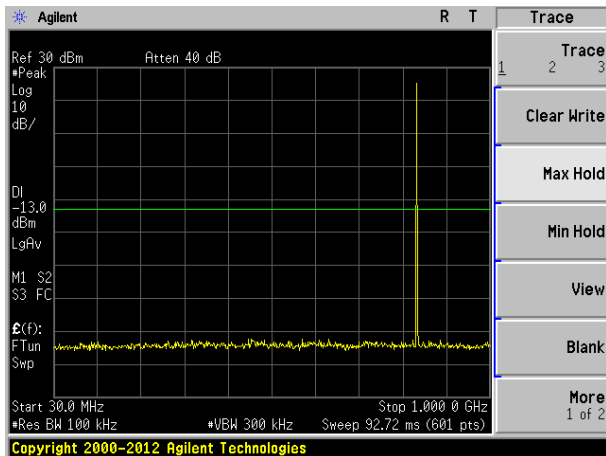
Highest channel

Test Mode: Traffic mode

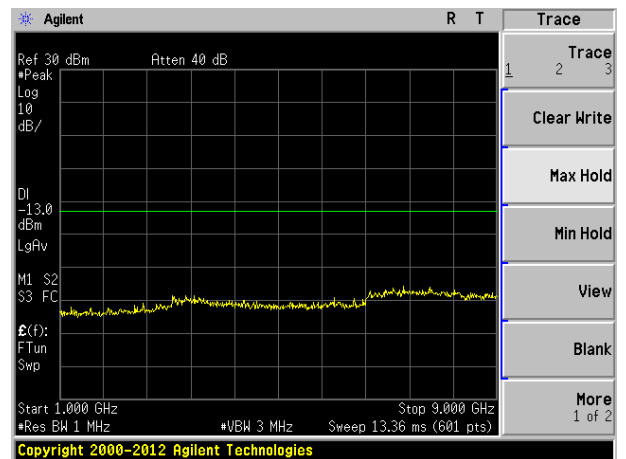
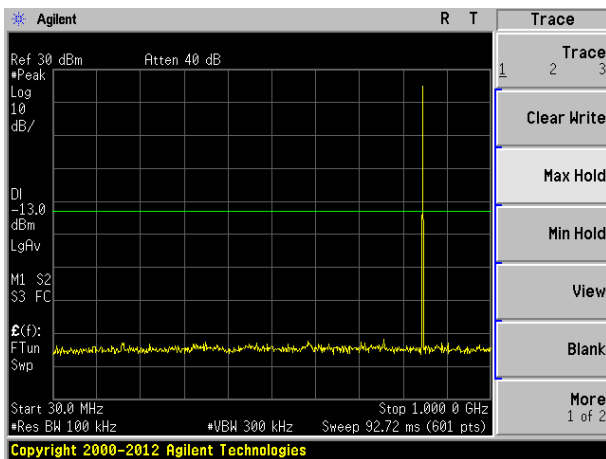
GSM 850 (GPRS 1 link)



Lowest channel



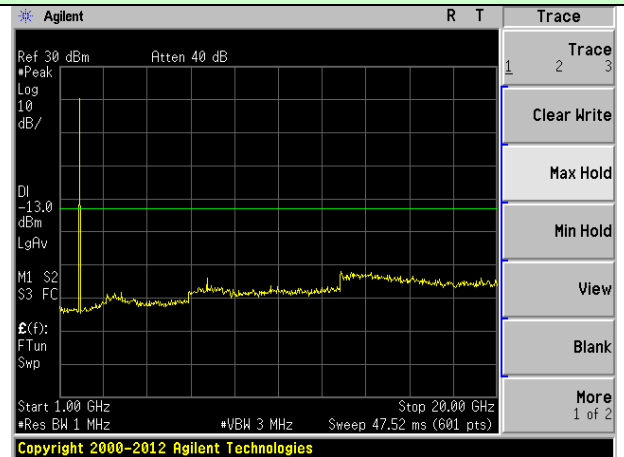
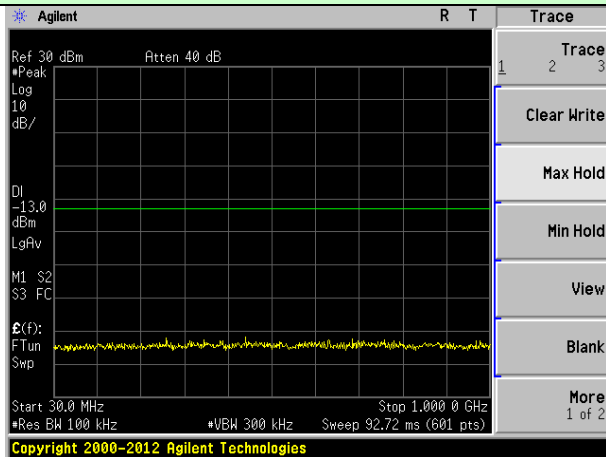
Middle channel



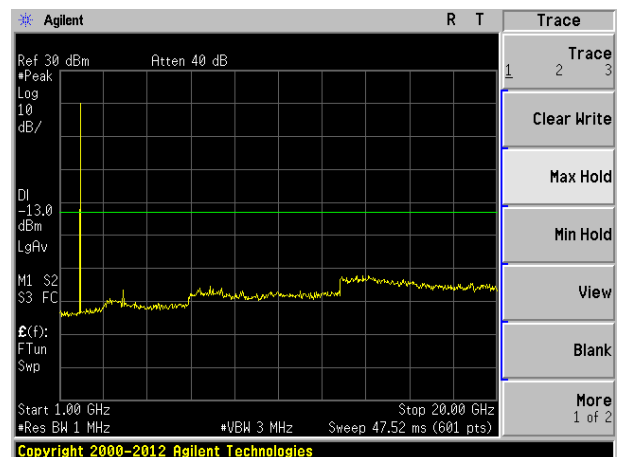
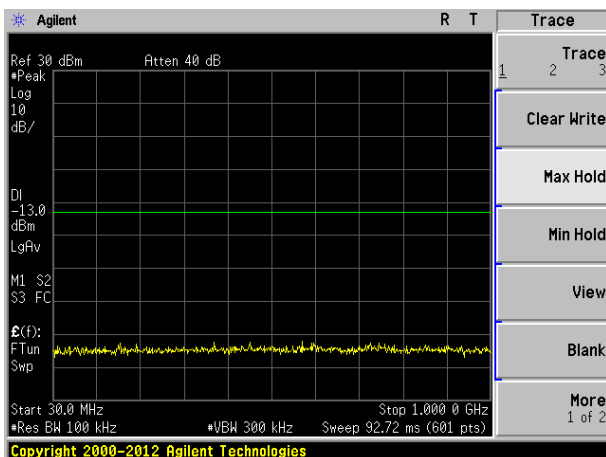
Highest channel

Test Mode: Traffic mode

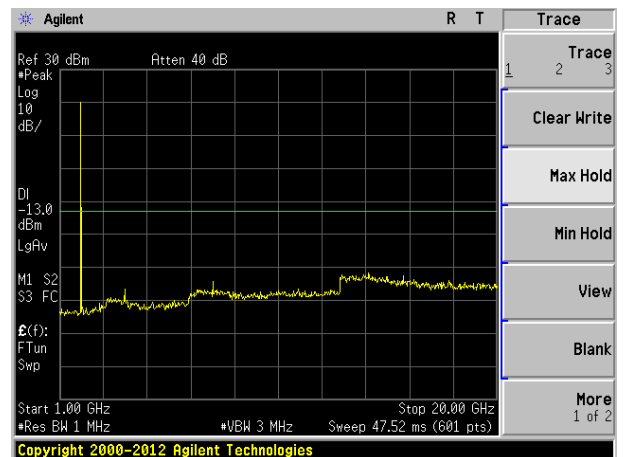
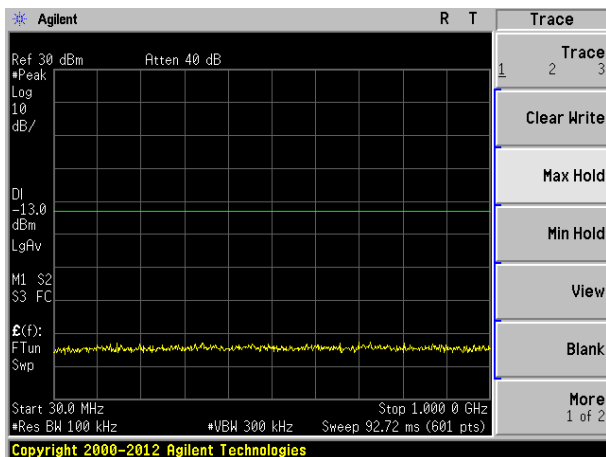
PCS1900 (GSM link)



Lowest channel

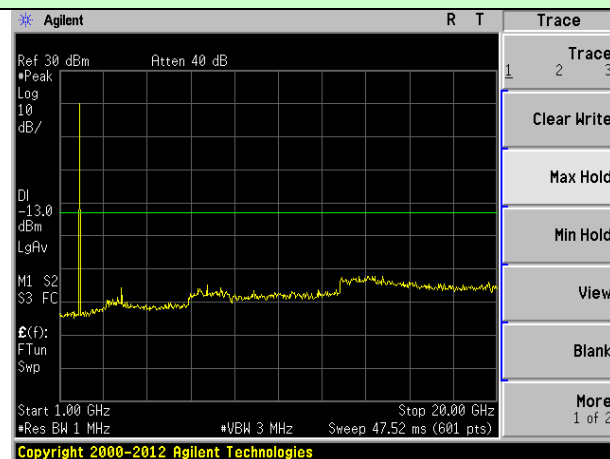
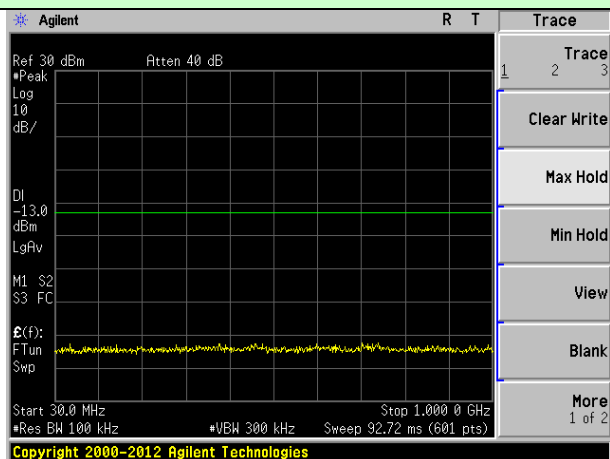


Middle channel

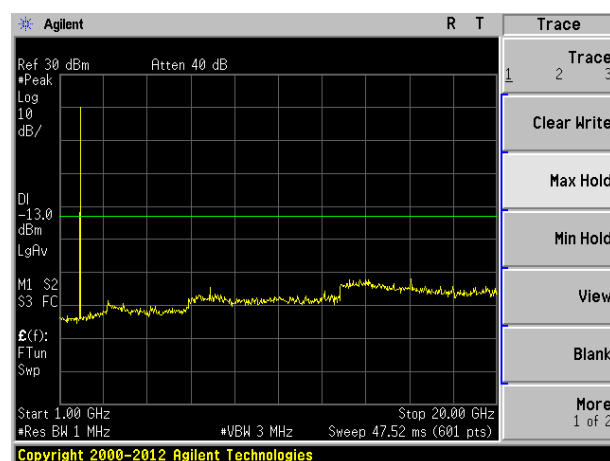
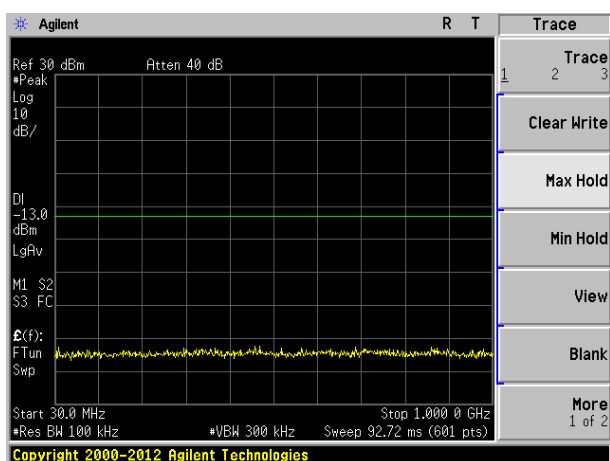


Highest channel

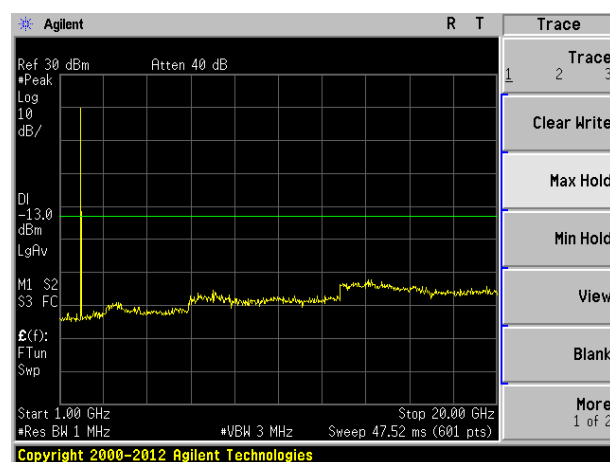
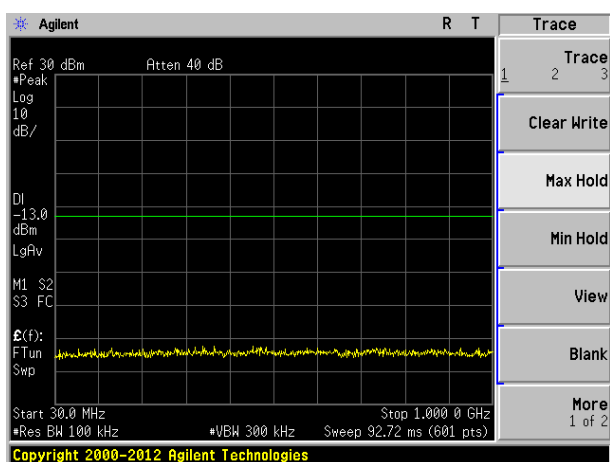
|                         |                       |
|-------------------------|-----------------------|
| Test Mode: Traffic mode | PCS1900 (GPRS 1 link) |
|-------------------------|-----------------------|



Lowest channel



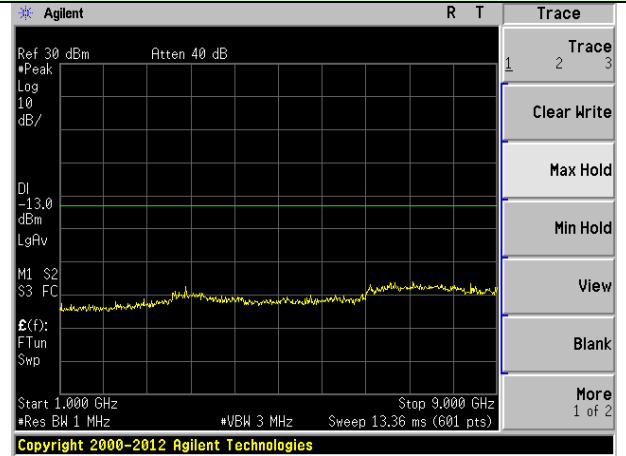
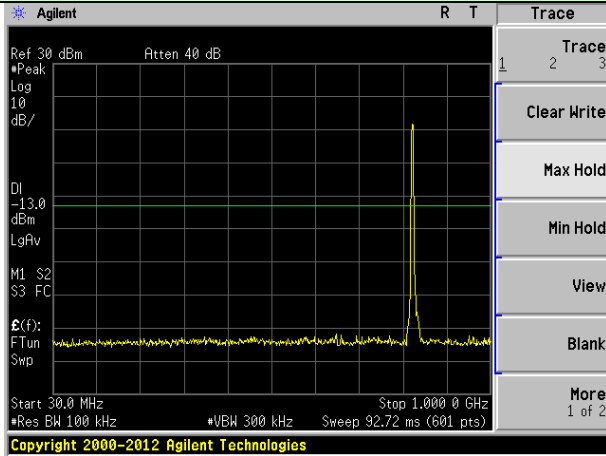
Middle channel



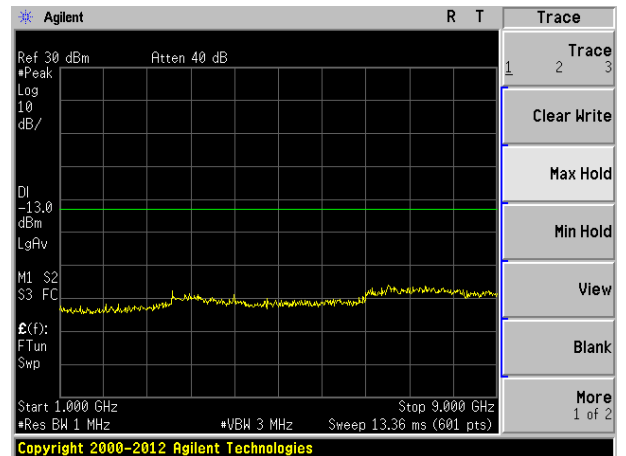
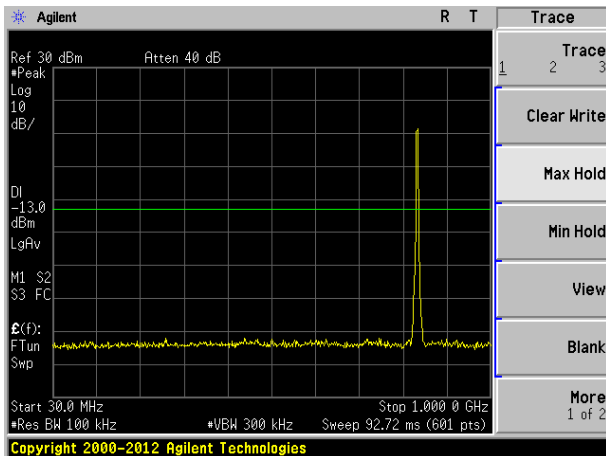
Highest channel

Test Mode: Traffic mode

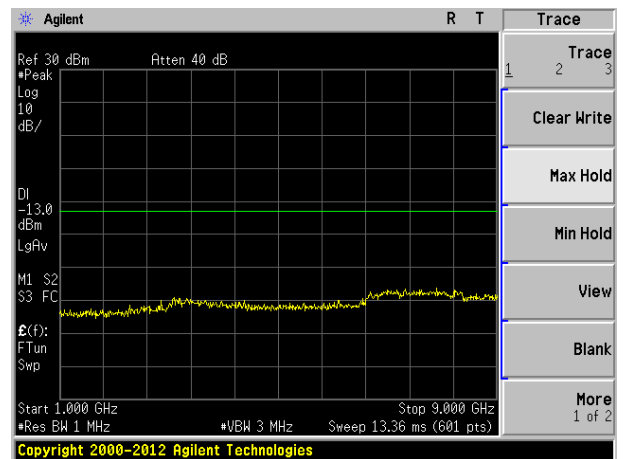
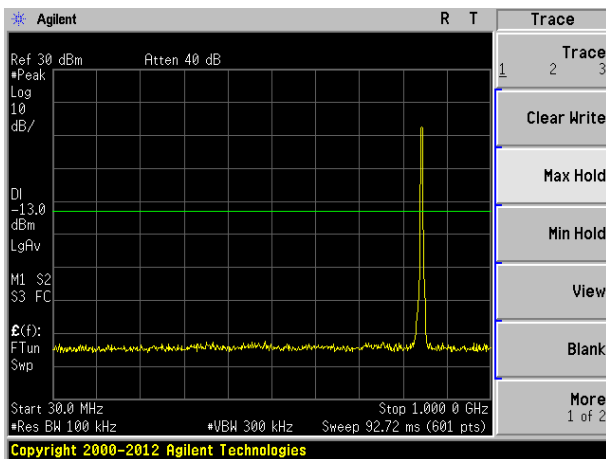
WCDMA Band V (RMC 12.2Kbps link)



Lowest channel



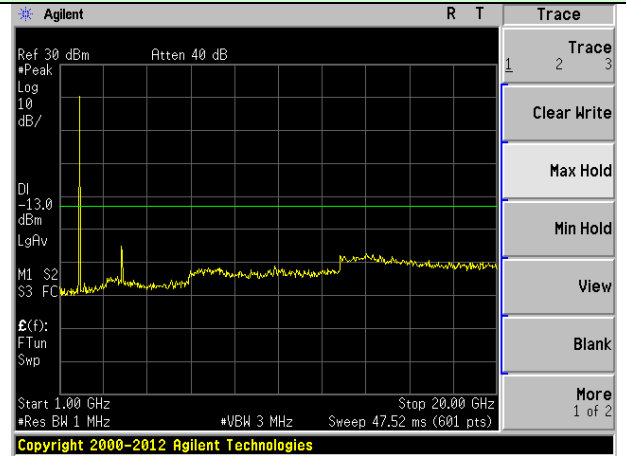
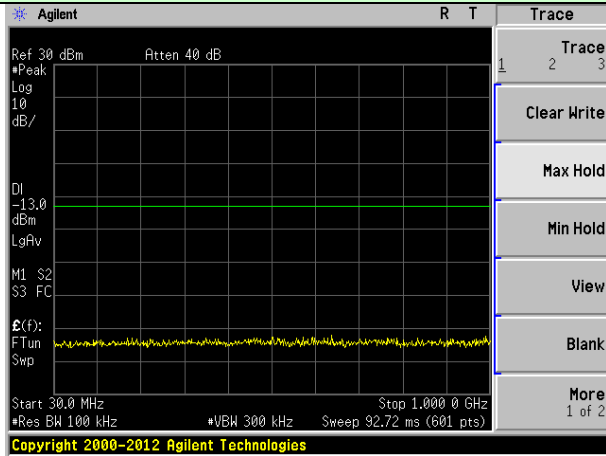
Middle channel



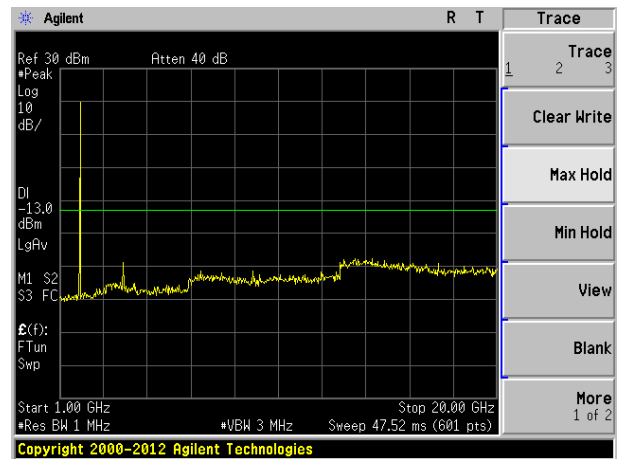
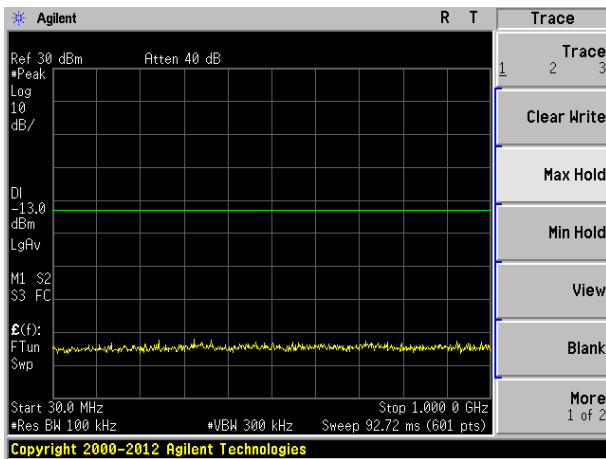
Highest channel

Test Mode: Traffic mode

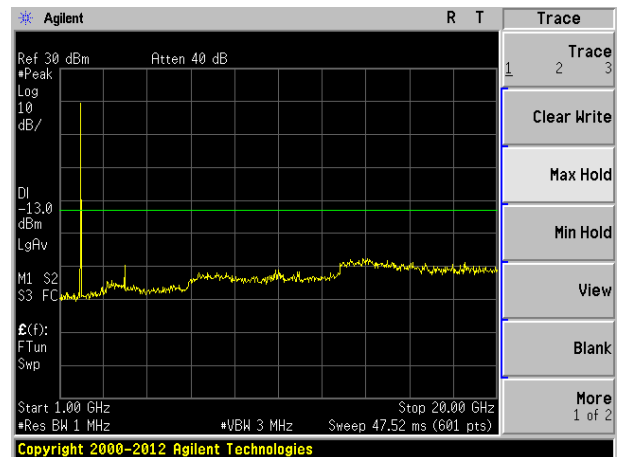
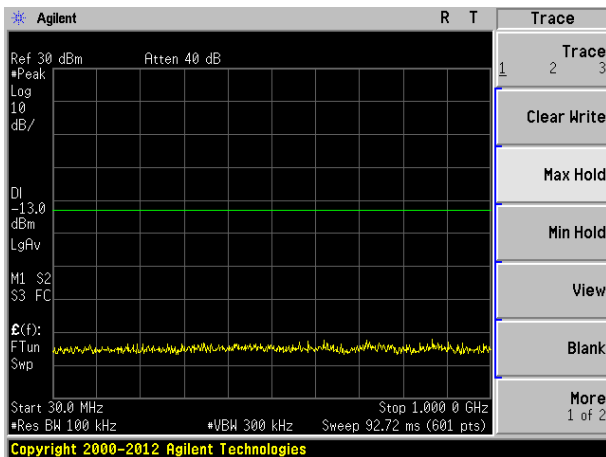
WCDMA Band II (RMC 12.2Kbps link)



Lowest channel



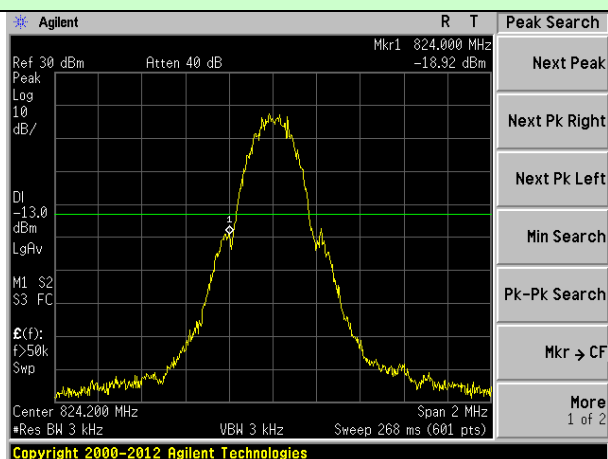
Middle channel



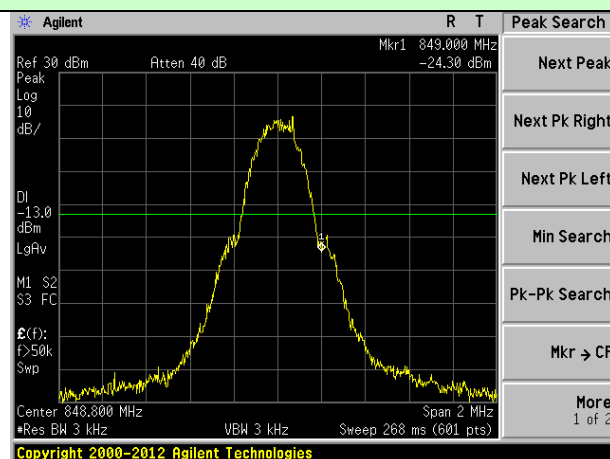
Highest channel

Band Edge:

|                         |                   |
|-------------------------|-------------------|
| Test Mode: Traffic mode | GSM850 (GSM link) |
|-------------------------|-------------------|

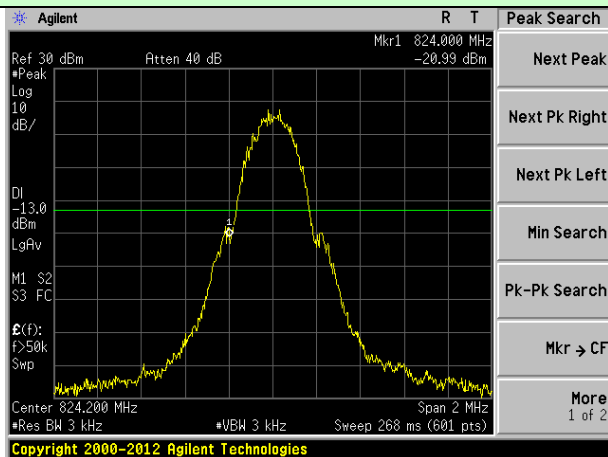


Lowest channel

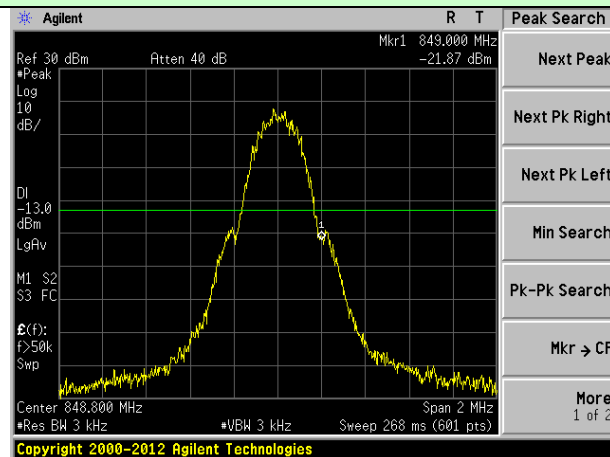


Highest channel

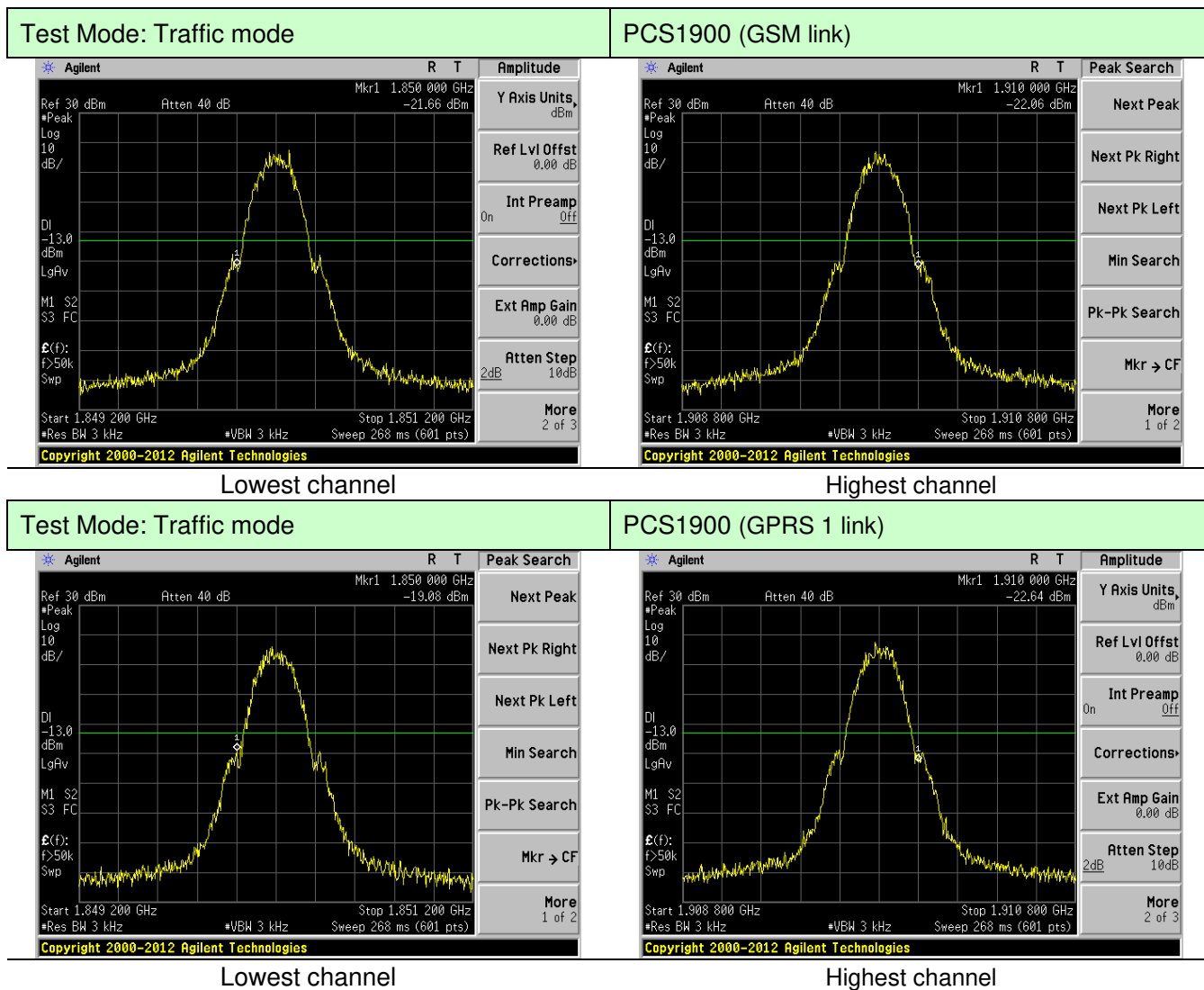
|                         |                      |
|-------------------------|----------------------|
| Test Mode: Traffic mode | GSM850 (GPRS 1 link) |
|-------------------------|----------------------|

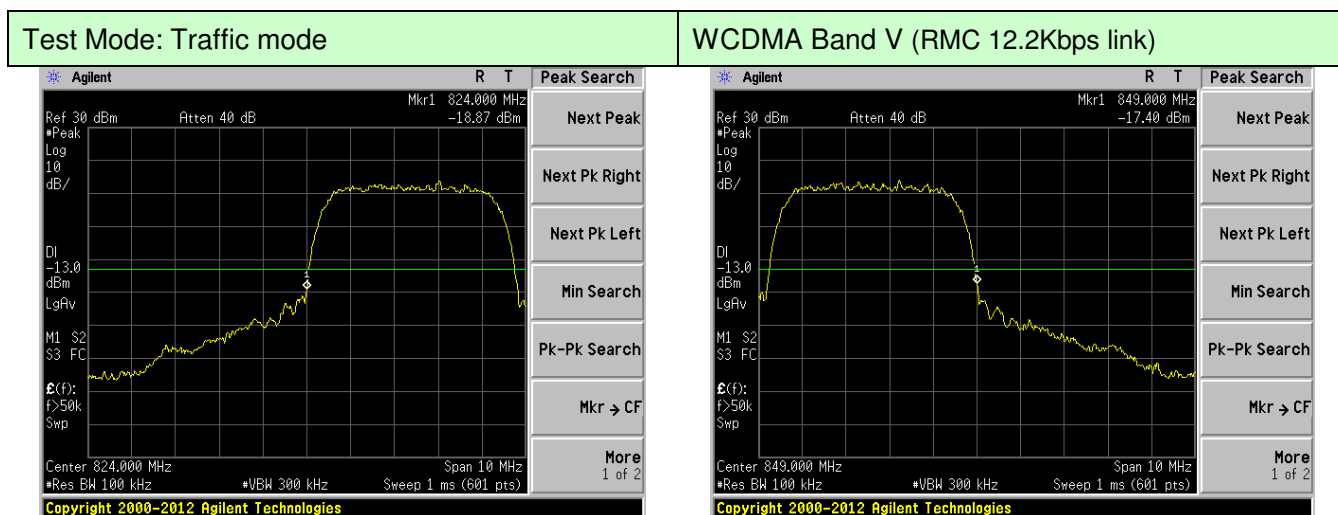


Lowest channel



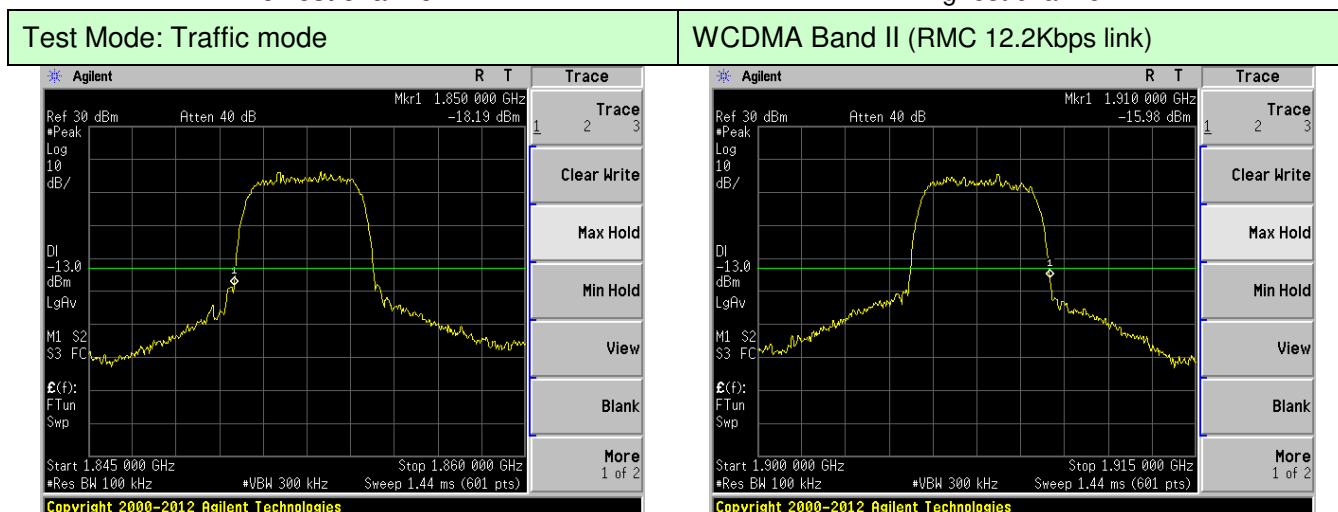
Highest channel





Lowest channel

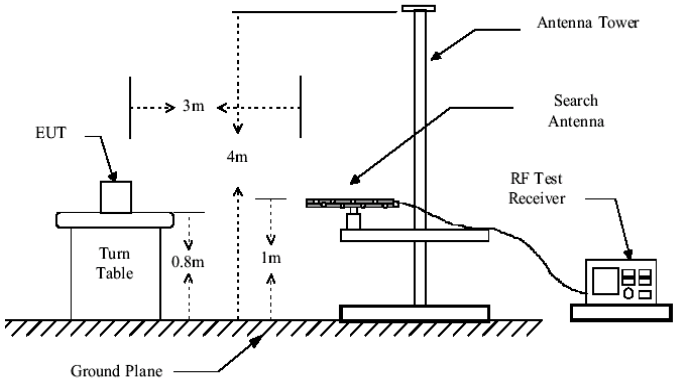
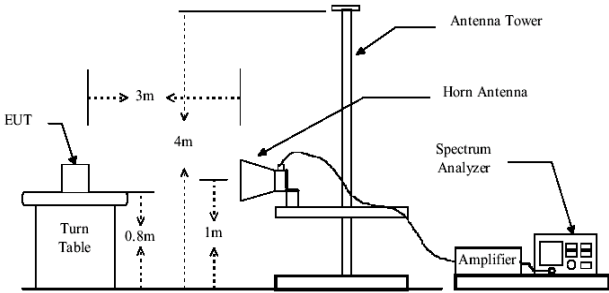
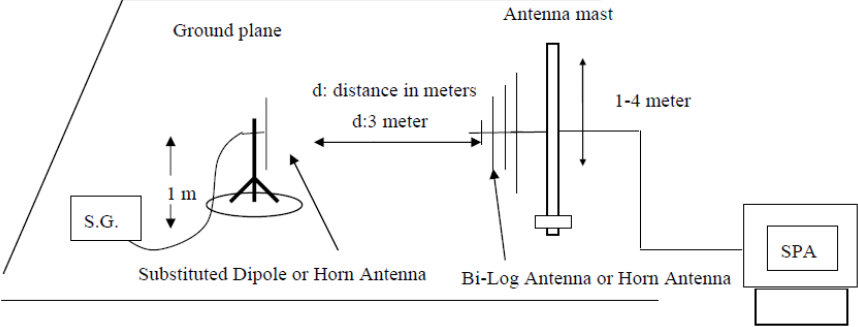
Highest channel



Lowest channel

Highest channel

## 6.8 ERP, EIRP Measurement

|                   |                                                                                                                                                                                                                                                                                                                              |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part22.913(a) and FCC part24.232(b)                                                                                                                                                                                                                                                                                      |
| Test Method:      | FCC part2.1046                                                                                                                                                                                                                                                                                                               |
| Limit:            | GSM850, WCDMA Band V: 7W<br>PCS1900, WCDMA Band II: 2W<br>WCDMA Band IV: 1W                                                                                                                                                                                                                                                  |
| Test setup:       | <p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p>  |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure:   | <ol style="list-style-type: none"> <li>1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li> <li>2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.</li> <li>3. ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated asfollows:<br/> <math display="block">\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}</math> </li> <li>4. EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:<br/> <math display="block">\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}</math> </li> </ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Measurement Data

| EUT mode             | Channel | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|----------------------|---------|----------|--------------|----------|-------------|--------|
| GSM850<br>(GSM link) | Lowest  | H        | V            | 30.29    | 38.45       | Pass   |
|                      |         |          | H            | 27.22    |             |        |
|                      |         | E1       | V            | 21.82    |             |        |
|                      |         |          | H            | 27.38    |             |        |
|                      |         | E2       | V            | 20.97    |             |        |
|                      |         |          | H            | 25.05    |             |        |
|                      | Middle  | H        | V            | 30.21    | 38.45       | Pass   |
|                      |         |          | H            | 27.17    |             |        |
|                      |         | E1       | V            | 21.95    |             |        |
|                      |         |          | H            | 27.68    |             |        |
|                      |         | E2       | V            | 22.65    |             |        |
|                      |         |          | H            | 25.73    |             |        |
|                      | Highest | H        | V            | 30.66    | 38.45       | Pass   |
|                      |         |          | H            | 26.93    |             |        |
|                      |         | E1       | V            | 21.92    |             |        |
|                      |         |          | H            | 26.45    |             |        |
|                      |         | E2       | V            | 20.74    |             |        |
|                      |         |          | H            | 26.14    |             |        |

| EUT mode                | Channel | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|-------------------------|---------|----------|--------------|----------|-------------|--------|
| GSM850<br>(GPRS 1 link) | Lowest  | H        | V            | 29.94    | 38.45       | Pass   |
|                         |         |          | H            | 26.86    |             |        |
|                         |         | E1       | V            | 21.43    |             |        |
|                         |         |          | H            | 26.97    |             |        |
|                         |         | E2       | V            | 20.54    |             |        |
|                         |         |          | H            | 24.60    |             |        |
|                         | Middle  | H        | V            | 29.79    | 38.45       | Pass   |
|                         |         |          | H            | 26.70    |             |        |
|                         |         | E1       | V            | 21.46    |             |        |
|                         |         |          | H            | 27.16    |             |        |
|                         |         | E2       | V            | 22.19    |             |        |
|                         |         |          | H            | 25.24    |             |        |
|                         | Highest | H        | V            | 30.25    | 38.45       | Pass   |
|                         |         |          | H            | 26.49    |             |        |
|                         |         | E1       | V            | 21.46    |             |        |
|                         |         |          | H            | 25.97    |             |        |
|                         |         | E2       | V            | 20.36    |             |        |
|                         |         |          | H            | 25.74    |             |        |

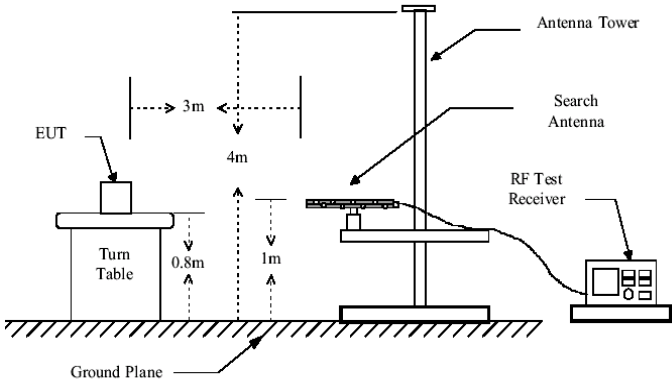
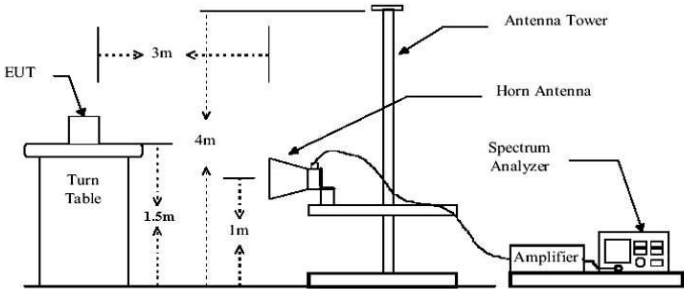
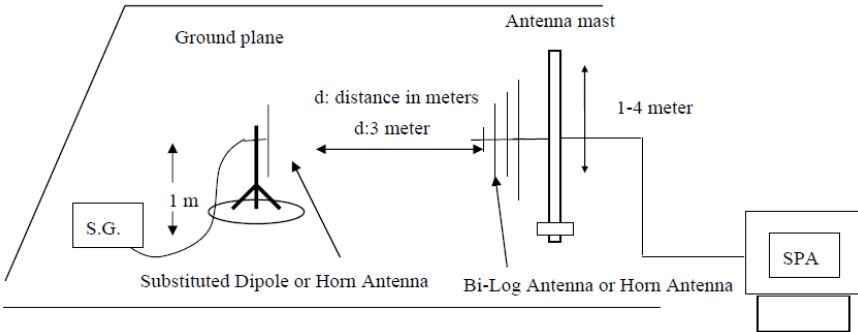
| EUT mode              | Channel | EUT Pol. | Antenna Pol. | EIRP (dBm) | Limit (dBm) | Result |
|-----------------------|---------|----------|--------------|------------|-------------|--------|
| PCS1900<br>(GSM link) | Lowest  | H        | V            | 26.63      | 33.01       | Pass   |
|                       |         |          | H            | 23.90      |             |        |
|                       |         | E1       | V            | 20.06      |             |        |
|                       |         |          | H            | 24.07      |             |        |
|                       |         | E2       | V            | 20.34      |             |        |
|                       |         |          | H            | 22.01      |             |        |
|                       | Middle  | H        | V            | 26.67      | 33.01       | Pass   |
|                       |         |          | H            | 23.97      |             |        |
|                       |         | E1       | V            | 20.33      |             |        |
|                       |         |          | H            | 24.49      |             |        |
|                       |         | E2       | V            | 20.93      |             |        |
|                       |         |          | H            | 22.70      |             |        |
|                       | Highest | H        | V            | 27.17      | 33.01       | Pass   |
|                       |         |          | H            | 23.83      |             |        |
|                       |         | E1       | V            | 20.37      |             |        |
|                       |         |          | H            | 23.44      |             |        |
|                       |         | E2       | V            | 20.25      |             |        |
|                       |         |          | H            | 23.11      |             |        |

| EUT mode                 | Channel | EUT Pol. | Antenna Pol. | EIRP (dBm) | Limit (dBm) | Result |
|--------------------------|---------|----------|--------------|------------|-------------|--------|
| PCS1900<br>(GPRS 1 link) | Lowest  | H        | V            | 26.27      | 33.01       | Pass   |
|                          |         |          | H            | 23.51      |             |        |
|                          |         | E1       | V            | 20.65      |             |        |
|                          |         |          | H            | 23.64      |             |        |
|                          |         | E2       | V            | 19.87      |             |        |
|                          |         |          | H            | 21.52      |             |        |
|                          | Middle  | H        | V            | 26.22      | 33.01       | Pass   |
|                          |         |          | H            | 23.47      |             |        |
|                          |         | E1       | V            | 20.80      |             |        |
|                          |         |          | H            | 23.93      |             |        |
|                          |         | E2       | V            | 20.43      |             |        |
|                          |         |          | H            | 22.18      |             |        |
|                          | Highest | H        | V            | 26.73      | 33.01       | Pass   |
|                          |         |          | H            | 23.36      |             |        |
|                          |         | E1       | V            | 20.88      |             |        |
|                          |         |          | H            | 22.92      |             |        |
|                          |         | E2       | V            | 19.84      |             |        |
|                          |         |          | H            | 22.68      |             |        |

| EUT mode        | Channel | EUT Pol. | Antenna Pol. | ERP(dBm) | Limit (dBm) | Result |
|-----------------|---------|----------|--------------|----------|-------------|--------|
| WCDMA<br>Band V | Lowest  | H        | V            | 21.20    | 38.45       | Pass   |
|                 |         |          | H            | 18.77    |             |        |
|                 |         | E1       | V            | 14.90    |             |        |
|                 |         |          | H            | 18.00    |             |        |
|                 |         | E2       | V            | 13.44    |             |        |
|                 |         |          | H            | 15.62    |             |        |
|                 | Middle  | H        | V            | 19.74    | 38.45       | Pass   |
|                 |         |          | H            | 16.74    |             |        |
|                 |         | E1       | V            | 12.82    |             |        |
|                 |         |          | H            | 15.95    |             |        |
|                 |         | E2       | V            | 13.95    |             |        |
|                 |         |          | H            | 15.44    |             |        |
|                 | Highest | H        | V            | 18.72    | 38.45       | Pass   |
|                 |         |          | H            | 15.89    |             |        |
|                 |         | E1       | V            | 12.21    |             |        |
|                 |         |          | H            | 14.67    |             |        |
|                 |         | E2       | V            | 13.10    |             |        |
|                 |         |          | H            | 16.10    |             |        |

| EUT mode         | Channel | EUT Pol. | Antenna Pol. | EIRP(dBm) | Limit (dBm) | Result |
|------------------|---------|----------|--------------|-----------|-------------|--------|
| WCDMA<br>Band II | Lowest  | H        | V            | 22.22     | 33.01       | Pass   |
|                  |         |          | H            | 20.18     |             |        |
|                  |         | E1       | V            | 16.24     |             |        |
|                  |         |          | H            | 19.50     |             |        |
|                  |         | E2       | V            | 15.27     |             |        |
|                  |         |          | H            | 17.94     |             |        |
|                  | Middle  | H        | V            | 22.58     | 33.01       | Pass   |
|                  |         |          | H            | 19.28     |             |        |
|                  |         | E1       | V            | 15.68     |             |        |
|                  |         |          | H            | 19.11     |             |        |
|                  |         | E2       | V            | 16.46     |             |        |
|                  |         |          | H            | 18.21     |             |        |
|                  | Highest | H        | V            | 20.83     | 33.01       | Pass   |
|                  |         |          | H            | 18.35     |             |        |
|                  |         | E1       | V            | 15.41     |             |        |
|                  |         |          | H            | 18.23     |             |        |
|                  |         | E2       | V            | 15.57     |             |        |
|                  |         |          | H            | 18.84     |             |        |

## 6.9 Field strength of spurious radiation measurement

|                   |                                                                                                                                                                                                                                                                                                                              |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC part22.917(a) and FCC part24.238(a)                                                                                                                                                                                                                                                                                      |
| Test Method:      | FCC part2.1053                                                                                                                                                                                                                                                                                                               |
| Limit:            | -13dBm                                                                                                                                                                                                                                                                                                                       |
| Test setup:       | <p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p>  |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure:   | <ol style="list-style-type: none"> <li>1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.</li> <li>2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.</li> <li>3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.</li> <li>4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.<br/> <math display="block">\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}</math> </li> </ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Measurement Data

| Test mode:      | GSM850            |             | Test channel: | Lowest  |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1648.40         | Vertical          | -36.08      | -13.00        | Pass    |
| 2472.60         | V                 | -38.82      |               |         |
| 3296.80         | V                 | -41.07      |               |         |
| 4121.00         | V                 | -43.23      |               |         |
| 4945.20         | V                 | ---         |               |         |
| 1648.40         | Horizontal        | -41.32      | -13.00        | Pass    |
| 2472.60         | H                 | -45.18      |               |         |
| 3296.80         | H                 | -46.74      |               |         |
| 4121.00         | H                 | -49.46      |               |         |
| 4945.20         | H                 | ---         |               |         |
| Test mode:      | GSM850            |             | Test channel: | Middle  |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1673.20         | Vertical          | -37.43      | -13.00        | Pass    |
| 2509.80         | V                 | -39.70      |               |         |
| 3346.40         | V                 | -41.58      |               |         |
| 4183.00         | V                 | -43.39      |               |         |
| 5019.60         | V                 | ---         |               |         |
| 1673.20         | Horizontal        | -41.79      | -13.00        | Pass    |
| 2509.80         | H                 | -45.01      |               |         |
| 3346.40         | H                 | -46.31      |               |         |
| 4183.00         | H                 | -48.58      |               |         |
| 5019.60         | H                 | ---         |               |         |
| Test mode:      | GSM850            |             | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1697.60         | Vertical          | -37.64      | -13.00        | Pass    |
| 2546.40         | V                 | -39.67      |               |         |
| 3395.20         | V                 | -41.33      |               |         |
| 4244.00         | V                 | -42.95      |               |         |
| 5092.80         | V                 | ---         |               |         |
| 1697.60         | Horizontal        | -41.52      | -13.00        | Pass    |
| 2546.40         | H                 | -44.39      |               |         |
| 3395.20         | H                 | -45.54      |               |         |
| 4244.00         | H                 | -47.56      |               |         |
| 5092.80         | H                 | ---         |               |         |

Remark :

1. The emission behaviour belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

| Test mode:      | PCS1900           |             | Test channel: | Lowest  |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3700.40         | Vertical          | -37.09      | -13.00        | Pass    |
| 5550.60         | V                 | -39.47      |               |         |
| 7400.80         | V                 | -41.43      |               |         |
| 9251.00         | V                 | -43.33      |               |         |
| 11101.20        | V                 | ---         |               |         |
| 3700.40         | Horizontal        | -41.66      | -13.00        | Pass    |
| 5550.60         | H                 | -45.03      |               |         |
| 7400.80         | H                 | -46.38      |               |         |
| 9251.00         | H                 | -48.74      |               |         |
| 11101.20        | H                 | ---         |               |         |
| Test mode:      | PCS1900           |             | Test channel: | Middle  |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3760.00         | Vertical          | -34.84      | -13.00        | Pass    |
| 5640.00         | V                 | -37.29      |               |         |
| 7520.00         | V                 | -39.32      |               |         |
| 9400.00         | V                 | -41.29      |               |         |
| 11280.00        | V                 | ---         |               |         |
| 3760.00         | Horizontal        | -39.56      | -13.00        | Pass    |
| 5640.00         | H                 | -43.04      |               |         |
| 7520.00         | H                 | -44.45      |               |         |
| 9400.00         | H                 | -46.89      |               |         |
| 11280.00        | H                 | ---         |               |         |
| Test mode:      | PCS1900           |             | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3819.60         | Vertical          | -36.00      | -13.00        | Pass    |
| 5729.40         | V                 | -38.38      |               |         |
| 7639.20         | V                 | -40.35      |               |         |
| 9549.00         | V                 | -42.25      |               |         |
| 11458.80        | V                 | ---         |               |         |
| 3819.60         | Horizontal        | -40.57      | -13.00        | Pass    |
| 5729.40         | H                 | -43.95      |               |         |
| 7639.20         | H                 | -45.31      |               |         |
| 9549.00         | H                 | -47.68      |               |         |
| 11458.80        | H                 | ---         |               |         |

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

| Test mode:      | WCDMA Band V      |             | Test channel: | Lowest  |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1652.80         | Vertical          | -37.68      | -13.00        | Pass    |
| 2479.20         | V                 | -41.41      |               |         |
| 3305.60         | V                 | -44.13      |               |         |
| 4132.00         | V                 | -41.65      |               |         |
| 4958.40         | V                 | ---         |               |         |
| 1652.80         | Horizontal        | -40.46      | -13.00        | Pass    |
| 2479.20         | H                 | -43.13      |               |         |
| 3305.60         | H                 | -48.53      |               |         |
| 4132.00         | H                 | -52.14      |               |         |
| 4958.40         | H                 | ---         |               |         |
| Test mode:      | WCDMA Band V      |             | Test channel: | Middle  |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1672.80         | Vertical          | -39.65      | -13.00        | Pass    |
| 2509.20         | V                 | -40.95      |               |         |
| 3345.60         | V                 | -44.56      |               |         |
| 4182.00         | V                 | -47.03      |               |         |
| 5018.40         | V                 | ---         |               |         |
| 1672.80         | Horizontal        | -42.09      | -13.00        | Pass    |
| 2509.20         | H                 | -43.98      |               |         |
| 3345.60         | H                 | -48.66      |               |         |
| 4182.00         | H                 | -51.03      |               |         |
| 5018.40         | H                 | ---         |               |         |
| Test mode:      | WCDMA Band V      |             | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 1693.20         | Vertical          | -38.11      | -13.00        | Pass    |
| 2539.80         | V                 | -40.54      |               |         |
| 3386.40         | V                 | -43.16      |               |         |
| 4233.00         | V                 | -46.05      |               |         |
| 5079.60         | V                 | ---         |               |         |
| 1693.20         | Horizontal        | -41.44      | -13.00        | Pass    |
| 2539.80         | H                 | -43.85      |               |         |
| 3386.40         | H                 | -45.22      |               |         |
| 4233.00         | H                 | -51.39      |               |         |
| 5079.60         | H                 | ---         |               |         |

Remark :

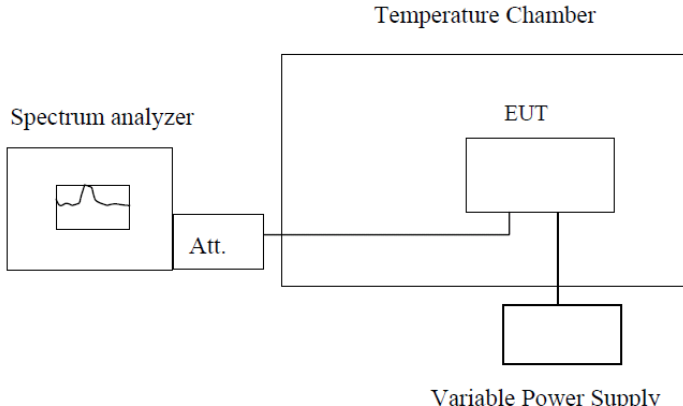
1. The emission behaviour belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

| Test mode:      | WCDMA Band II     |             | Test channel: | Lowest  |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3704.46         | Vertical          | -38.92      | -13.00        | Pass    |
| 5556.86         | V                 | -42.00      |               |         |
| 7409.26         | V                 | -44.54      |               |         |
| 9261.66         | V                 | -46.99      |               |         |
| 11114.40        | V                 | ---         |               |         |
| 3704.46         | Horizontal        | -44.82      | -13.00        | Pass    |
| 5556.86         | H                 | -49.17      |               |         |
| 7409.26         | H                 | -50.93      |               |         |
| 9261.66         | H                 | -53.99      |               |         |
| 11114.40        | H                 | ---         |               |         |
| Test mode:      | WCDMA Band II     |             | Test channel: | Middle  |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3759.83         | Vertical          | -39.65      | -13.00        | Pass    |
| 5639.83         | V                 | -42.57      |               |         |
| 7519.83         | V                 | -44.97      |               |         |
| 9399.83         | V                 | -47.30      |               |         |
| 11280.00        | V                 | ---         |               |         |
| 3759.83         | Horizontal        | -45.25      | -13.00        | Pass    |
| 5639.83         | H                 | -49.38      |               |         |
| 7519.83         | H                 | -51.04      |               |         |
| 9399.83         | H                 | -53.94      |               |         |
| 11280.00        | H                 | ---         |               |         |
| Test mode:      | WCDMA Band II     |             | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission |             | Limit (dBm)   | Result  |
|                 | Polarization      | Level (dBm) |               |         |
| 3815.03         | Vertical          | -38.88      | -13.00        | Pass    |
| 5722.63         | V                 | -41.61      |               |         |
| 7630.23         | V                 | -43.84      |               |         |
| 9537.83         | V                 | -46.02      |               |         |
| 11445.60        | V                 | ---         |               |         |
| 3815.03         | Horizontal        | -44.10      | -13.00        | Pass    |
| 5722.63         | H                 | -47.96      |               |         |
| 7630.23         | H                 | -49.50      |               |         |
| 9537.83         | H                 | -52.20      |               |         |
| 11445.60        | H                 | ---         |               |         |

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

## 6.10 Frequency stability V.S. Temperature measurement

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part2.1055(a)(1)(b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Test Method:      | FCC Part2.1055(a)(1)(b)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Limit:            | 2.5ppm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Test setup:       |  <p><b>Note :</b> Measurement setup for testing on Antenna connector</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Test procedure:   | <ol style="list-style-type: none"> <li>1. The equipment under test was connected to an external DC power supply and input rated voltage.</li> <li>2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.</li> <li>3. The EUT was placed inside the temperature chamber.</li> <li>4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.</li> <li>5. Turn EUT off and set the chamber temperature to –20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.</li> <li>6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.</li> </ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

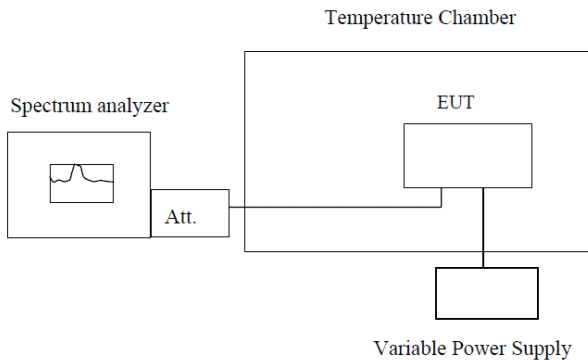
### Measurement Data

| Reference Frequency: GSM850 (GSM link) Middle channel=190 channel=836.6MHz    |                  |                 |        |             |        |
|-------------------------------------------------------------------------------|------------------|-----------------|--------|-------------|--------|
| Power supplied (Vdc)                                                          | Temperature (°C) | Frequency error |        | Limit (ppm) | Result |
|                                                                               |                  | Hz              | ppm    |             |        |
| 3.70                                                                          | -30              | 32              | 0.0382 | 2.5         | Pass   |
|                                                                               | -20              | 35              | 0.0422 |             |        |
|                                                                               | -10              | 31              | 0.0368 |             |        |
|                                                                               | 0                | 26              | 0.0315 |             |        |
|                                                                               | 10               | 30              | 0.0355 |             |        |
|                                                                               | 20               | 26              | 0.0315 |             |        |
|                                                                               | 30               | 40              | 0.0475 |             |        |
|                                                                               | 40               | 36              | 0.0435 |             |        |
|                                                                               | 50               | 35              | 0.0422 |             |        |
| Reference Frequency: GSM850 (GPRS 1 link) Middle channel=190 channel=836.6MHz |                  |                 |        |             |        |
| Power supplied (Vdc)                                                          | Temperature (°C) | Frequency error |        | Limit (ppm) | Result |
|                                                                               |                  | Hz              | ppm    |             |        |
| 3.70                                                                          | -30              | 50              | 0.0602 | 2.5         | Pass   |
|                                                                               | -20              | 59              | 0.0703 |             |        |
|                                                                               | -10              | 49              | 0.0581 |             |        |
|                                                                               | 0                | 42              | 0.0499 |             |        |
|                                                                               | 10               | 47              | 0.0564 |             |        |
|                                                                               | 20               | 41              | 0.0485 |             |        |
|                                                                               | 30               | 71              | 0.0853 |             |        |
|                                                                               | 40               | 62              | 0.0736 |             |        |
|                                                                               | 50               | 58              | 0.0694 |             |        |

| Reference Frequency: PCS1900 (GSM link) Middle channel=661 channel=1880MHz    |                  |                 |        |     |        |
|-------------------------------------------------------------------------------|------------------|-----------------|--------|-----|--------|
| Power supplied (Vdc)                                                          | Temperature (°C) | Frequency error |        |     | Result |
|                                                                               |                  | Hz              | ppm    |     |        |
| 3.70                                                                          | -30              | 27              | 0.0143 | 2.5 | Pass   |
|                                                                               | -20              | 34              | 0.0181 |     |        |
|                                                                               | -10              | 27              | 0.0143 |     |        |
|                                                                               | 0                | 21              | 0.0111 |     |        |
|                                                                               | 10               | 27              | 0.0143 |     |        |
|                                                                               | 20               | 22              | 0.0118 |     |        |
|                                                                               | 30               | 42              | 0.0225 |     |        |
|                                                                               | 40               | 35              | 0.0187 |     |        |
|                                                                               | 50               | 33              | 0.0175 |     |        |
| Reference Frequency: PCS1900 (GPRS 1 link) Middle channel=661 channel=1880MHz |                  |                 |        |     |        |
| Power supplied (Vdc)                                                          | Temperature (°C) | Frequency error |        |     | Result |
|                                                                               |                  | Hz              | ppm    |     |        |
| 3.70                                                                          | -30              | 89              | 0.0473 | 2.5 | Pass   |
|                                                                               | -20              | 105             | 0.0561 |     |        |
|                                                                               | -10              | 85              | 0.0454 |     |        |
|                                                                               | 0                | 70              | 0.0370 |     |        |
|                                                                               | 10               | 86              | 0.0460 |     |        |
|                                                                               | 20               | 72              | 0.0382 |     |        |
|                                                                               | 30               | 119             | 0.0632 |     |        |
|                                                                               | 40               | 99              | 0.0526 |     |        |
|                                                                               | 50               | 104             | 0.0553 |     |        |

| Reference Frequency: WCDMA Band V Middle channel=4183 channel=836.6MHz   |                  |                 |        |             |        |
|--------------------------------------------------------------------------|------------------|-----------------|--------|-------------|--------|
| Power supplied (Vdc)                                                     | Temperature (°C) | Frequency error |        | Limit (ppm) | Result |
|                                                                          |                  | Hz              | ppm    |             |        |
| 3.70                                                                     | -30              | 33              | 0.0395 | 2.5         | Pass   |
|                                                                          | -20              | 46              | 0.0549 |             |        |
|                                                                          | -10              | 52              | 0.0619 |             |        |
|                                                                          | 0                | 25              | 0.0297 |             |        |
|                                                                          | 10               | 37              | 0.0437 |             |        |
|                                                                          | 20               | 40              | 0.0479 |             |        |
|                                                                          | 30               | 59              | 0.0703 |             |        |
|                                                                          | 40               | 55              | 0.0661 |             |        |
|                                                                          | 50               | 66              | 0.0787 |             |        |
| Reference Frequency: WCDMA Band II Middle channel=9400 channel=1880.0MHz |                  |                 |        |             |        |
| Power supplied (Vdc)                                                     | Temperature (°C) | Frequency error |        | Limit (ppm) | Result |
|                                                                          |                  | Hz              | ppm    |             |        |
| 3.70                                                                     | -30              | 101             | 0.0539 | 2.5         | Pass   |
|                                                                          | -20              | 90              | 0.0479 |             |        |
|                                                                          | -10              | 77              | 0.0412 |             |        |
|                                                                          | 0                | 72              | 0.0385 |             |        |
|                                                                          | 10               | 66              | 0.0352 |             |        |
|                                                                          | 20               | 57              | 0.0305 |             |        |
|                                                                          | 30               | 72              | 0.0385 |             |        |
|                                                                          | 40               | 81              | 0.0432 |             |        |
|                                                                          | 50               | 77              | 0.0412 |             |        |

## 6.11 Frequency stability V.S. Voltage measurement

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part2.1055(d)(1)(2)                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Test Method:      | FCC Part2.1055(d)(1)(2)                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Limit:            | 2.5ppm                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test setup:       |  <p><b>Note :</b> Measurement setup for testing on Antenna connector</p>                                                                                                                                                                                                                                                                                       |
| Test procedure:   | <ol style="list-style-type: none"> <li>1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.</li> <li>2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.</li> <li>3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.</li> </ol> |
| Test Instruments: | Refer to section 5.0 for details                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test mode:        | Refer to section 6.1 for details                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Measurement Data

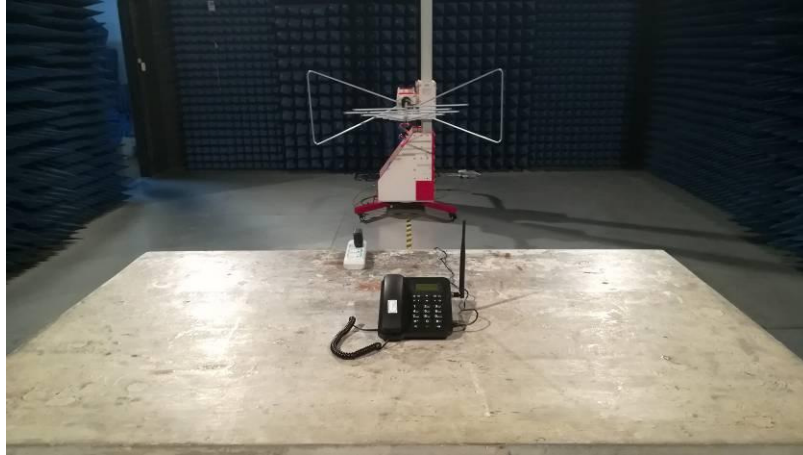
| Reference Frequency: GSM850 (GSM link) Middle channel=190 channel=836.6MHz    |                      |                 |        |             |        |
|-------------------------------------------------------------------------------|----------------------|-----------------|--------|-------------|--------|
| Temperature (°C)                                                              | Power supplied (Vdc) | Frequency error |        | Limit (ppm) | Result |
|                                                                               |                      | Hz              | ppm    |             |        |
| 25                                                                            | 4.25                 | 20              | 0.0242 | 2.5         | Pass   |
|                                                                               | 3.7                  | 23              | 0.0272 |             |        |
|                                                                               | 3.4                  | 25              | 0.0302 |             |        |
| Reference Frequency: GSM850 (GPRS 1 link) Middle channel=190 channel=836.6MHz |                      |                 |        |             |        |
| Temperature (°C)                                                              | Power supplied (Vdc) | Frequency error |        | Limit (ppm) | Result |
|                                                                               |                      | Hz              | ppm    |             |        |
| 25                                                                            | 4.25                 | 30              | 0.0359 | 2.5         | Pass   |
|                                                                               | 3.7                  | 35              | 0.0416 |             |        |
|                                                                               | 3.4                  | 39              | 0.0471 |             |        |

| Reference Frequency: PCS1900 (GSM link) Middle channel=661 channel=1880MHz    |                      |                 |        |             |        |
|-------------------------------------------------------------------------------|----------------------|-----------------|--------|-------------|--------|
| Temperature (°C)                                                              | Power supplied (Vdc) | Frequency error |        | Limit (ppm) | Result |
|                                                                               |                      | Hz              | ppm    |             |        |
| 25                                                                            | 4.25                 | 16              | 0.0083 | 2.5         | Pass   |
|                                                                               | 3.7                  | 22              | 0.0119 |             |        |
|                                                                               | 3.4                  | 22              | 0.0119 |             |        |
| Reference Frequency: PCS1900 (GPRS 1 link) Middle channel=661 channel=1880MHz |                      |                 |        |             |        |
| Temperature (°C)                                                              | Power supplied (Vdc) | Frequency error |        | Limit (ppm) | Result |
|                                                                               |                      | Hz              | ppm    |             |        |
| 25                                                                            | 4.25                 | 64              | 0.0338 | 2.5         | Pass   |
|                                                                               | 3.7                  | 72              | 0.0384 |             |        |
|                                                                               | 3.4                  | 73              | 0.0386 |             |        |

| Reference Frequency: WCDMA Band V Middle channel=4183 channel=836.6MHz  |                      |                 |        |             |        |
|-------------------------------------------------------------------------|----------------------|-----------------|--------|-------------|--------|
| Temperature (℃)                                                         | Power supplied (Vdc) | Frequency error |        | Limit (ppm) | Result |
|                                                                         |                      | Hz              | ppm    |             |        |
| 25                                                                      | 4.25                 | 28              | 0.0331 | 2.5         | Pass   |
|                                                                         | 3.7                  | 36              | 0.0432 |             |        |
|                                                                         | 3.4                  | 19              | 0.0229 |             |        |
| Reference Frequency: WCDMA Band II Middle channel=940 channel=1880.0MHz |                      |                 |        |             |        |
| Temperature (℃)                                                         | Power supplied (Vdc) | Frequency error |        | Limit (ppm) | Result |
|                                                                         |                      | Hz              | ppm    |             |        |
| 25                                                                      | 4.25                 | 49              | 0.0261 | 2.5         | Pass   |
|                                                                         | 3.7                  | 40              | 0.0212 |             |        |
|                                                                         | 3.4                  | 45              | 0.0240 |             |        |

## 7 Test Setup Photo

### Radiated Emission

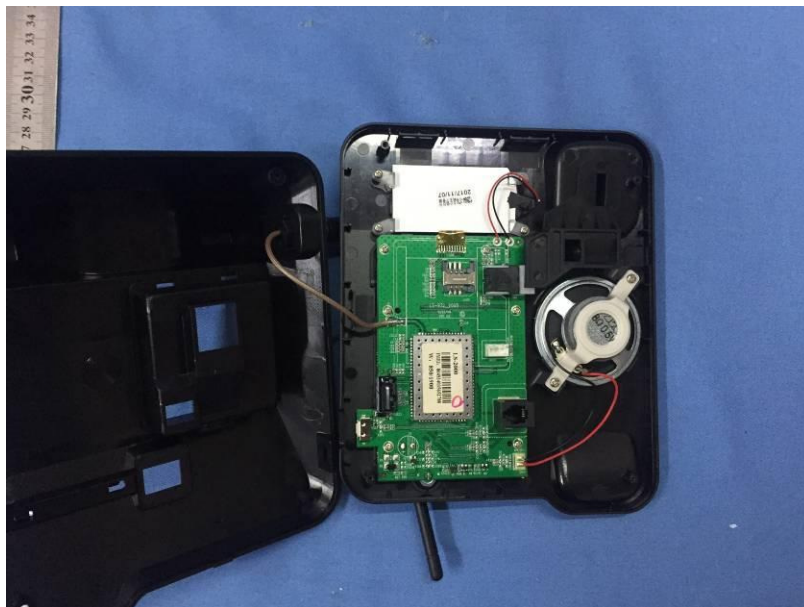


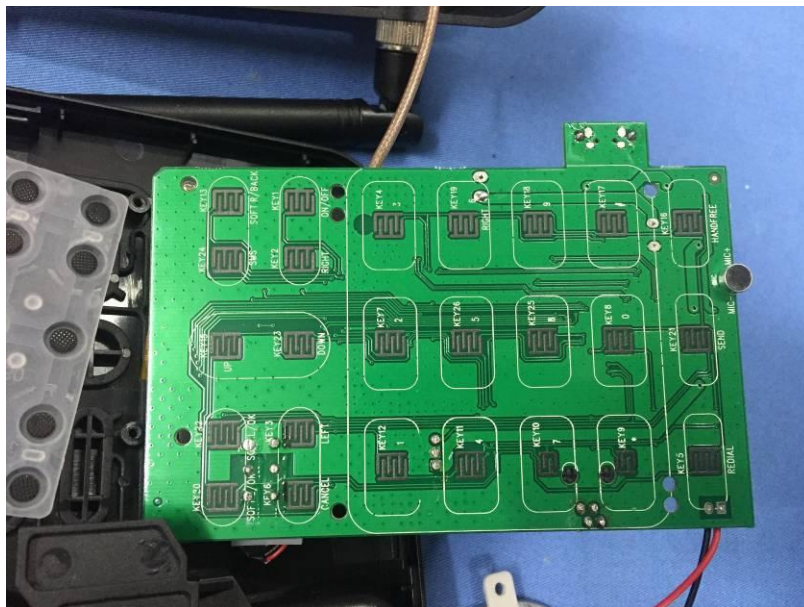
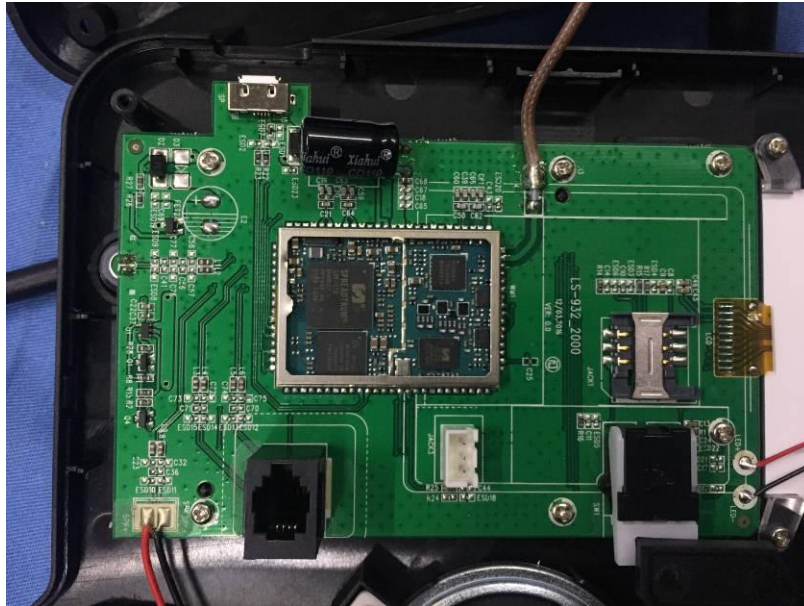
## 8 EUT Constructional Details

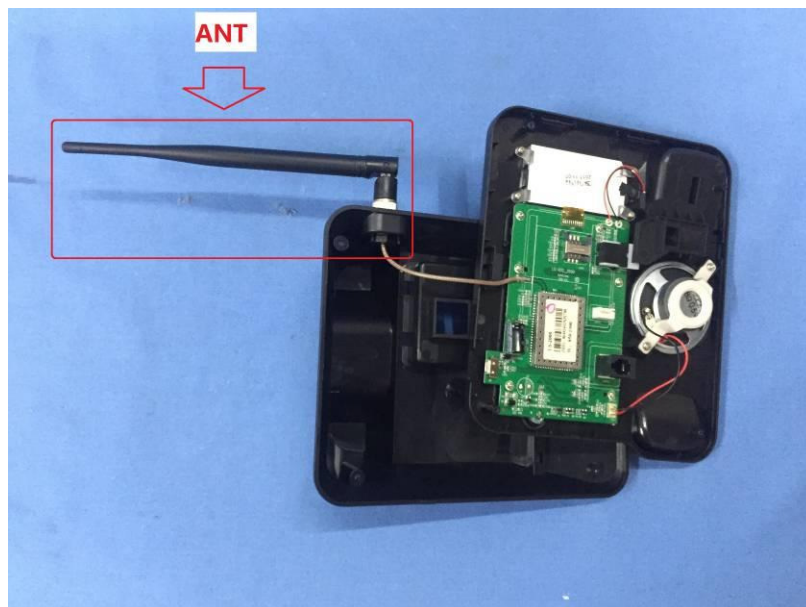














-----End-----