



# **A Test Lab Techno Corp.**

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## **P22 & P24 Test Report**



|                              |                                                                 |
|------------------------------|-----------------------------------------------------------------|
| <b>Test Report No.</b>       | <b>: 0809FR13</b>                                               |
| <b>Applicant</b>             | <b>: Inventec Corporation</b>                                   |
| <b>Manufacturer</b>          | <b>: Inventec Corporation</b>                                   |
| <b>Model Name</b>            | <b>: PDA PHONE</b>                                              |
| <b>Trade Mark</b>            | <b>: velocitymobile</b>                                         |
| <b>Model Number</b>          | <b>: velocity 111</b>                                           |
| <b>FCC ID</b>                | <b>: DGIBC8121AABBAB0</b>                                       |
| <b>Dates of Test</b>         | <b>: Jul. 23 ~ Oct. 02, 2008</b>                                |
| <b>Test Specification</b>    | <b>: 47 CFR Part 22H, 24E &amp; and 24, ANSI/TIA-603-C-2004</b> |
| <b>Location of Test Lab.</b> | <b>: Chang-an Lab.</b>                                          |

1. The test operations have to be performed with cautious behavior, the test results are as attached.
2. The test results are under chamber environment of A Test Lab Techno Corp. A Test Lab Techno Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples.
3. The measurement report has to be written approval of A Test Lab Techno Corp. It may only be reproduced or published in full.

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**Measurement Center Manager**

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**Testing Engineer**



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## 1. General Information

Applicant :

**Inventec Corporation**

Inventec Building, 66 Hou-Kang Street, Shih-Lin District, Taipei 11170, Taiwan

|                                                                        |                                                                                                                                                                  |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Manufacturer</b>                                                    | : Inventec Corporation<br>Inventec Building, 66 Hou-Kang Street,<br>Shih-Lin District, Taipei 11170, Taiwan                                                      |
| <b>Product Name</b>                                                    | : PDA PHONE                                                                                                                                                      |
| <b>Trade Mark</b>                                                      | : velocitymobile                                                                                                                                                 |
| <b>Model Number</b>                                                    | : velocity 111                                                                                                                                                   |
| <b>FCC ID</b>                                                          | : DGIBC8121AABBAB0                                                                                                                                               |
| <b>TX Frequency</b>                                                    | : 824 - 849 MHz (GSM 850)<br>1850 - 1910 MHz (PCS 1900)<br>826 - 847 MHz (WCDMA Band V)<br>1852 - 1908 MHz (WCDMA Band II)                                       |
| <b>RX Frequency</b>                                                    | : 869 - 894 MHz (GSM 850)<br>1930 - 1990 MHz (PCS 1900)<br>871 - 892 MHz (WCDMA Band V)<br>1932 - 1988 MHz (WCDMA Band II)                                       |
| <b>Antenna Type</b>                                                    | : PIFA Antenna                                                                                                                                                   |
| <b>Maximum Output Power to Antenna<br/>(Conducted)</b>                 | : 32.31 dBm (GSM/GPRS/EGPRS 850)<br>29.11 dBm (PCS/GPRS/EGPRS 1900)<br>24.15 dBm (WCDMA /HSDPA Band V)<br>23.60 dBm (WCDMA/HSDPA Band II)                        |
| <b>Max. ERP/EIRP Power</b>                                             | : 0.396 W / 27.59 dBm ERP (GSM 850)<br>1.476 W / 31.69 dBm EIRP (PCS 1900)<br>0.058 W / 17.67 dBm ERP (WCDMA Band V)<br>0.275 W / 24.39 dBm EIRP (WCDMA Band II) |
| <b>Type of Emission</b>                                                | : GSM 850 : 256KGXW<br>EGPRS 850 : 278KG7W<br>PCS 1900 : 270KGXW<br>EGPRS 1900 : 270KG7W<br>WCDMA Band V : 4M19F9W<br>WCDMA Band II : 4M17F9W                    |
| <b>Power Rating (DC , Voltage and<br/>Current of RF element or PA)</b> | : 3.7V / 1.41 A                                                                                                                                                  |
| <b>Digital Modulation Emission</b>                                     | : GMSK(GSM 850 / PCS1900)<br>QPSK(WCDMA Band V / WCDMA Band II)                                                                                                  |
| <b>Power Supply Type</b>                                               | : AC Adapter                                                                                                                                                     |
| <b>DC Power Cord</b>                                                   | : Shielded USB Cable, 1.5 meter, Cigarette Plug                                                                                                                  |
| <b>Adapter</b>                                                         | : PI ELECTRONICS / AD 7112B                                                                                                                                      |
| <b>DUT Stage</b>                                                       | : Production Unit                                                                                                                                                |



## 2. Test Configuration of Equipment under Test

### 2.1 Test Manner

1. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
2. During all testing, EUT is in link mode with base station emulator at maximum power level. (PCL=5 for GSM 850 or PCL=0 for PCS 1900)
3. Frequency range investigated: radiated emission 30 MHz to 9000 MHz for GSM850; 30MHz to 19000 MHz for PCS 1900.

### 2.2 Test Mode

Preliminary tests were performed in different data mode to find the worst case. The data mode shown in the table below is the worst-case rate (Blue color). Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

| Bands        | Channel | Frequency |        | Conducted Power |
|--------------|---------|-----------|--------|-----------------|
|              |         | (MHz)     |        | (dBm)           |
| GSM 850      | 128     | Low       | 824.20 | <b>32.31</b>    |
|              | 190     | Mid       | 836.40 | 32.28           |
|              | 251     | High      | 848.80 | 32.09           |
| GSM 850+GPRS | 128     | Low       | 824.20 | 32.20           |
|              | 190     | Mid       | 836.40 | 32.18           |
|              | 251     | High      | 848.80 | 31.99           |
| GSM 850+EDGE | 128     | Low       | 824.20 | 26.79           |
|              | 190     | Mid       | 836.40 | 26.51           |
|              | 251     | High      | 848.80 | 26.26           |

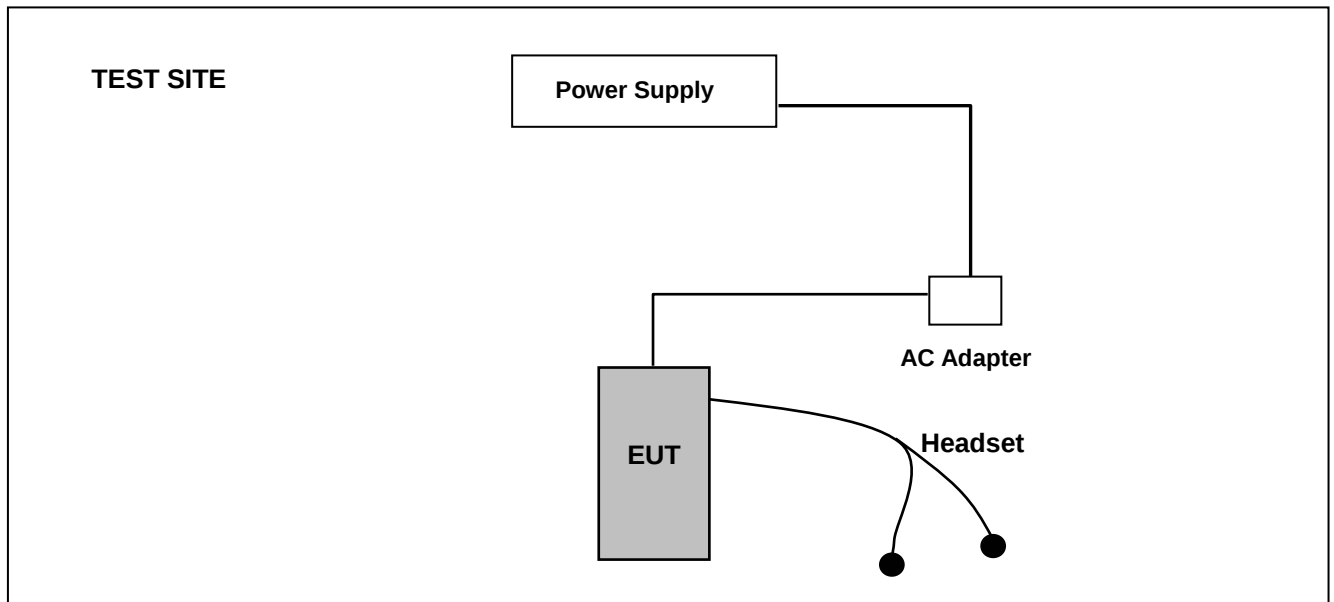


| Bands        | Channel | Frequency |         | Conducted Power |
|--------------|---------|-----------|---------|-----------------|
|              |         | (MHz)     |         | (dBm)           |
| PCS1900      | 512     | Low       | 1850.20 | 28.87           |
|              | 661     | Mid       | 1880.00 | 29.04           |
|              | 810     | High      | 1909.80 | 29.11           |
| PCS1900+GPRS | 512     | Low       | 1850.20 | 28.83           |
|              | 661     | Mid       | 1880.00 | 28.97           |
|              | 810     | High      | 1909.80 | 29.03           |
| PCS1900+EDGE | 512     | Low       | 1850.20 | 25.95           |
|              | 661     | Mid       | 1880.00 | 25.81           |
|              | 810     | High      | 1909.80 | 25.78           |

| Bands                | Channel | Frequency |        | Conducted Power |
|----------------------|---------|-----------|--------|-----------------|
|                      |         | (MHz)     |        | (dBm)           |
| WCDMA Band V         | 4132    | Low       | 826.40 | 24.15           |
|                      | 4182    | Mid       | 836.40 | 24.12           |
|                      | 4233    | High      | 846.40 | 23.97           |
| WCDMA Band V + HSDPA | 4132    | Low       | 826.40 | 23.10           |
|                      | 4182    | Mid       | 836.40 | 23.20           |
|                      | 4233    | High      | 846.40 | 22.80           |
| WCDMA Band V + HSUPA | 4132    | Low       | 826.40 | 23.06           |
|                      | 4182    | Mid       | 836.40 | 22.98           |
|                      | 4233    | High      | 846.40 | 22.71           |

| Bands                | Channel | Frequency |         | Conducted Power |
|----------------------|---------|-----------|---------|-----------------|
|                      |         | (MHz)     |         | (dBm)           |
| WCDMA Band II        | 9262    | Low       | 1852.40 | 23.60           |
|                      | 9400    | Mid       | 1880.00 | 23.30           |
|                      | 9538    | High      | 1907.60 | 23.40           |
| WCDMA Band II+ HSDPA | 9262    | Low       | 1852.40 | 23.00           |
|                      | 9400    | Mid       | 1880.00 | 23.20           |
|                      | 9538    | High      | 1907.60 | 22.70           |
| WCDMA Band II+ HSUPA | 9262    | Low       | 1852.40 | 22.85           |
|                      | 9400    | Mid       | 1880.00 | 23.04           |
|                      | 9538    | High      | 1907.60 | 22.53           |

## 2.3 Connection Diagram of Test System



During EMI testing (LINK) the EUT (PDA PHONE)'s Power port was connected to AC Adapter. EUT (PDA PHONE)'s ear port connected to headset.

## 2.4 Ancillary Equipment List

1. Base Station(R&S) CMU200 106656
2. Power Supply (GW) 12P3A H281001



### **3. General Information of Test Site**

Test Site Location: No. 140 -1, Changan Street, Bade City, Taoyuan County, Taiwan R.O.C.  
TEL: 886-3-271-0188 FAX: 886-3-271-0190

Registration Number : 854525

Designation Number : TW1330

The chamber meets the characteristics of ANSI C63.4-2006. This site is on file with the FCC.

#### **3.1 Test Voltage**

DC 3.7V / 1.41 A (Battery)

#### **3.2 Test in Compliance with**

47 CFR Part 22H, 24E and Part 2. and 24, ANSI/TIA-603-C-2004

#### **3.3 Frequency Range Investigated**

1. Radiation: from 30 MHz to 9000 MHz for GSM 850.
2. Radiation: from 30 MHz to 19000 MHz for PCS 1900.
3. Radiation: from 30 MHz to 9000 MHz for WCDMA Band V.
4. Radiation: from 30 MHz to 19000 MHz for WCDMA Band II.

#### **3.4 Test Distance**

The test distance of radiated emission from antenna to EUT is 3 m.



#### 4. Test Data and Test Result

##### 4.1 List of Measurements and Examinations

| FCC Rule                            | DESCRIPTION OF TEST                        | Result | Section |
|-------------------------------------|--------------------------------------------|--------|---------|
| § 2.1046                            | RF Output Power                            | Passed | 4.2     |
| § 22.913<br>§ 24.232                | ERP / EIRP                                 | Passed | 4.3     |
| § 2.1049<br>§ 22.917<br>§ 24.238(b) | Occupied Bandwidth & Band Edge Measurement | Passed | 4.4     |
| § 2.1051                            | Conducted Emission                         | Passed | 4.5     |
| § 2.1053                            | Field Strength of Spurious Radiation       | Passed | 4.6     |
| § 2.1055<br>§ 22.355<br>§ 24.235    | Frequency Stability vs. Temperature        | Passed | 4.7     |
| § 2.1055<br>§ 22.355<br>§ 24.235    | Frequency Stability vs. Voltage            | Passed | 4.8     |
| § 15.207                            | AC Power Conducted Emissions Requirements  | Passed | 4.9     |

## 4.2 RF Output Power

### 4.2.1 Measurement Instruments :

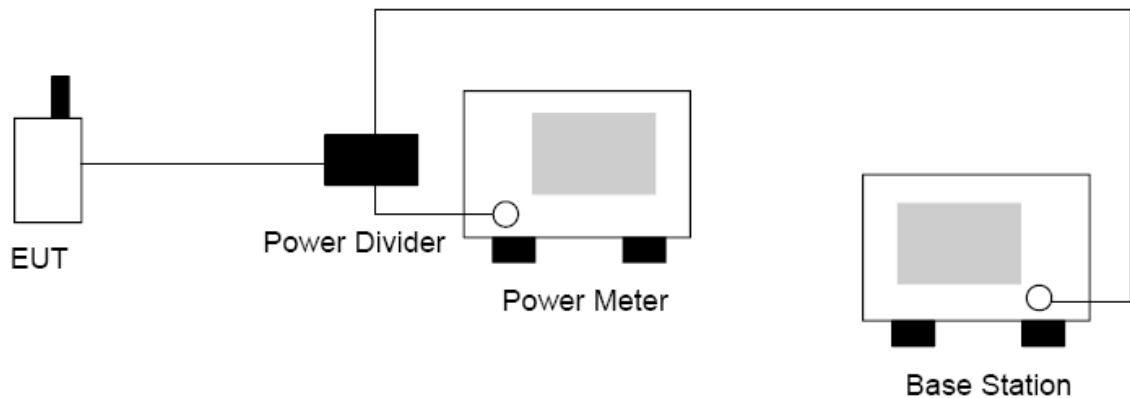
As described in chapter 5 of this test report.

### 4.2.2 Test Procedure :

The measurement is made according to ANSI/TIA-603-C-2004 as follows:

1. The transmitter output was connected to power meter and base station through power divider.
2. Set base station for EUT at GSM 850: PCL=5 and PCS 1900: PCL=0.
3. Set base station for EUT at WCDMA Band V and WCDMA Band II, power level was set to maximum.
4. Select lowest, middle, and highest channels for each band.

### 4.2.3 Test Setup Layout :





#### 4.2.4 Test Result :

| Bands   | Channel | Frequency (MHz) |       | Conducted Power (dBm) | Conducted Power (Watts) |
|---------|---------|-----------------|-------|-----------------------|-------------------------|
| GSM 850 | 128     | Low             | 824.2 | 32.31                 | 1.702                   |
|         | 190     | Mid             | 836.4 | 32.28                 | 1.690                   |
|         | 251     | High            | 848.8 | 32.09                 | 1.618                   |

| Bands    | Channel | Frequency (MHz) |       | Conducted Power (dBm) | Conducted Power (Watts) |
|----------|---------|-----------------|-------|-----------------------|-------------------------|
| GPRS 850 | 128     | Low             | 824.2 | 32.20                 | 1.660                   |
|          | 190     | Mid             | 836.4 | 32.18                 | 1.652                   |
|          | 251     | High            | 848.8 | 31.99                 | 1.581                   |

| Bands     | Channel | Frequency (MHz) |       | Conducted Power (dBm) | Conducted Power (Watts) |
|-----------|---------|-----------------|-------|-----------------------|-------------------------|
| EGPRS 850 | 128     | Low             | 824.2 | 26.79                 | 0.478                   |
|           | 190     | Mid             | 836.4 | 26.51                 | 0.448                   |
|           | 251     | High            | 848.8 | 26.26                 | 0.423                   |



| Bands    | Channel | Frequency (MHz) |        | Conducted Power (dBm) | Conducted Power (Watts) |
|----------|---------|-----------------|--------|-----------------------|-------------------------|
| PCS 1900 | 512     | Low             | 1850.2 | 28.87                 | 0.771                   |
|          | 661     | Mid             | 1880.0 | 29.04                 | 0.802                   |
|          | 810     | High            | 1909.8 | 29.11                 | 0.815                   |

| Bands     | Channel | Frequency (MHz) |        | Conducted Power (dBm) | Conducted Power (Watts) |
|-----------|---------|-----------------|--------|-----------------------|-------------------------|
| GPRS 1900 | 512     | Low             | 1850.2 | 28.83                 | 0.764                   |
|           | 661     | Mid             | 1880.0 | 28.97                 | 0.789                   |
|           | 810     | High            | 1909.8 | 29.03                 | 0.800                   |

| Bands      | Channel | Frequency (MHz) |        | Conducted Power (dBm) | Conducted Power (Watts) |
|------------|---------|-----------------|--------|-----------------------|-------------------------|
| EGPRS 1900 | 512     | Low             | 1850.2 | 25.95                 | 0.394                   |
|            | 661     | Mid             | 1880.0 | 25.81                 | 0.381                   |
|            | 810     | High            | 1909.8 | 25.78                 | 0.378                   |



| Bands        | Channel | Frequency (MHz) |       | Conducted Power (dBm) | Conducted Power (Watts) |
|--------------|---------|-----------------|-------|-----------------------|-------------------------|
| WCDMA Band V | 4132    | Low             | 826.4 | 24.15                 | 0.260                   |
|              | 4182    | Mid             | 836.4 | 24.12                 | 0.258                   |
|              | 4233    | High            | 846.4 | 23.97                 | 0.249                   |

| Bands        | Channel | Frequency (MHz) |       | Conducted Power (dBm) | Conducted Power (Watts) |
|--------------|---------|-----------------|-------|-----------------------|-------------------------|
| HSDPA Band V | 4132    | Low             | 826.4 | 23.10                 | 0.204                   |
|              | 4182    | Mid             | 836.4 | 23.20                 | 0.209                   |
|              | 4233    | High            | 846.4 | 22.80                 | 0.191                   |

| Bands        | Channel | Frequency (MHz) |       | Conducted Power (dBm) | Conducted Power (Watts) |
|--------------|---------|-----------------|-------|-----------------------|-------------------------|
| HSUPA Band V | 4132    | Low             | 826.4 | 23.06                 | 0.202                   |
|              | 4182    | Mid             | 836.4 | 22.98                 | 0.199                   |
|              | 4233    | High            | 846.4 | 22.71                 | 0.187                   |



| Bands         | Channel | Frequency (MHz) |        | Conducted Power (dBm) | Conducted Power (Watts) |
|---------------|---------|-----------------|--------|-----------------------|-------------------------|
| WCDMA Band II | 9262    | Low             | 1852.4 | 23.60                 | 0.229                   |
|               | 9400    | Mid             | 1880.0 | 23.30                 | 0.214                   |
|               | 9538    | High            | 1907.6 | 23.40                 | 0.219                   |

| Bands         | Channel | Frequency (MHz) |        | Conducted Power (dBm) | Conducted Power (Watts) |
|---------------|---------|-----------------|--------|-----------------------|-------------------------|
| HSDPA Band II | 9262    | Low             | 1852.4 | 23.00                 | 0.200                   |
|               | 9400    | Mid             | 1880.0 | 23.20                 | 0.209                   |
|               | 9538    | High            | 1907.6 | 22.70                 | 0.186                   |

| Bands         | Channel | Frequency (MHz) |        | Conducted Power (dBm) | Conducted Power (Watts) |
|---------------|---------|-----------------|--------|-----------------------|-------------------------|
| HSUPA Band II | 9262    | Low             | 1852.4 | 22.85                 | 0.193                   |
|               | 9400    | Mid             | 1880.0 | 23.04                 | 0.201                   |
|               | 9538    | High            | 1907.6 | 22.53                 | 0.179                   |



### **4.3 ERP / EIRP Measurement**

Equivalent isotropic radiated power measurements by substitution method according to ANSI/TIA/EIA-603-B-2002.

#### **4.3.1 Measurement Instruments**

As described in chapter 5 of this test report.

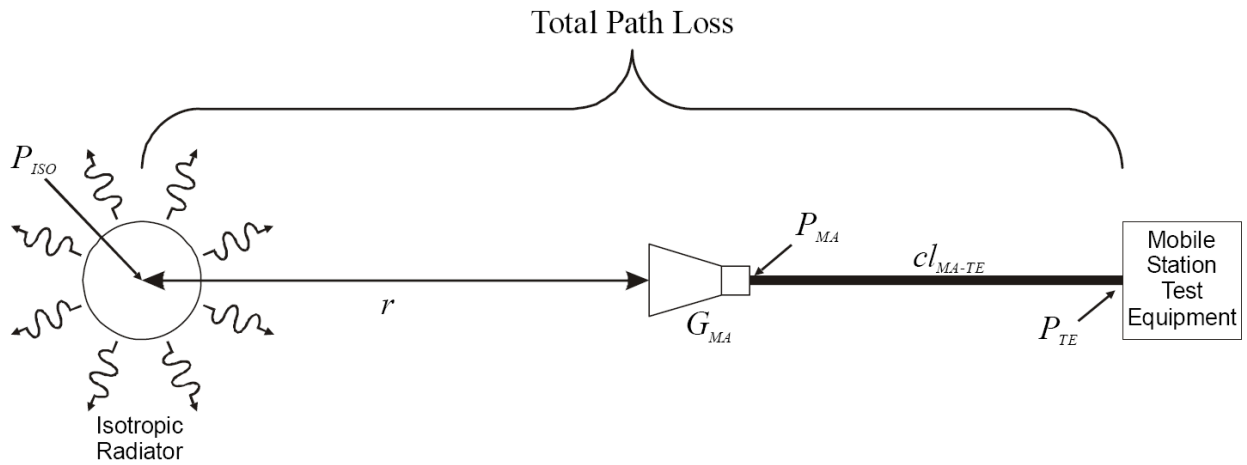
#### **4.3.2 Test Procedure**

The phone was tested in an anechoic chamber with a 3-axis position system that permits taking complete spherical scans of the EUT's 3-axis radiation patterns. For all tests, the phone was supported in a free space type environment, vertically oriented in the chamber. Tests were done for GSM 850 three frequencies (824.2, 836.6 and 848.8 MHz) and GSM 1900 three frequencies (1850.2, 1880.00, and 1909.80 MHz).

GSM measurements were made with the phone placed in a call using the CMU200 mobile station test set. The phone was weakly coupled to the test set and configured to transmit in full data rate mode.

The radiated power was measured using ETS-LINDGREN OTA Chamber in "Peak" mode. From these measurements, the software calculates the angle at which maximum radiated power occurs for each case, and the radiated power at this angle was extracted from the data.

Each individual data point in a radiated power or sensitivity measurement is referred to as the effective isotropic radiated power or effective isotropic sensitivity. That is, the desired information is how the measured quantity relates to the same quantity from an isotropic radiator. Thus, the reference measurement must relate the power received or transmitted at the EUT test equipment (spectrum analyzer or communication tester) back to the power transmitted or received at a theoretical isotropic radiator. The total path loss then, is just the difference in dB between the power transmitted or received at the isotropic radiator and that seen at the test equipment (see follow Figure 1).



**Figure 1. THEORETICAL CASE FOR DETERMINING PATH LOSS**

In equation form, this becomes:

Equation 1

$$PL = P_{ISO} - P_{TE},$$

where PL is the total path loss,  $P_{ISO}$  is the power radiated by the theoretical isotropic radiator, and  $P_{TE}$  is the power received at the test equipment port. As can be seen in Figure 1, this quantity includes the range path loss due to the range length  $r$ , the gain of the measurement antenna, and any loss terms associated with the cabling, connections, amplifiers, splitters, etc. between the measurement antenna and the test equipment port.

Figure 2 shows a typical real world configuration for measuring the path loss. In this case, a reference antenna with known gain is used in place of the theoretical isotropic source. The path loss may then be determined from the power into the reference antenna by adding the gain of the reference antenna.

That is:

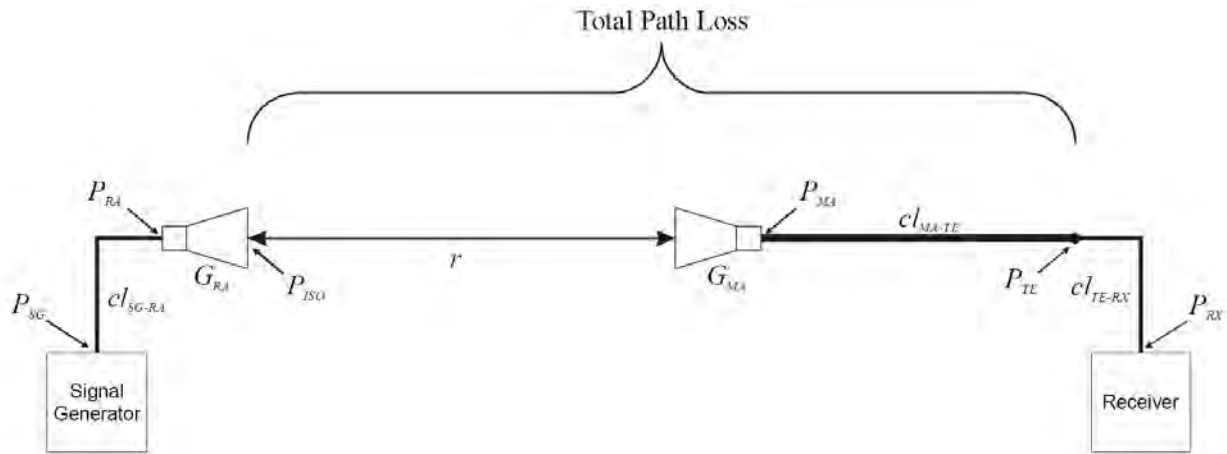
Equation 2

$$P_{ISO} = P_{RA} + G_{RA},$$

where  $P_{RA}$  is the power radiated by reference antenna, and  $G_{RA}$  is the gain of the reference antenna, so that:

Equation 3

$$PL = P_{RA} + G_{RA} - P_{TE},$$

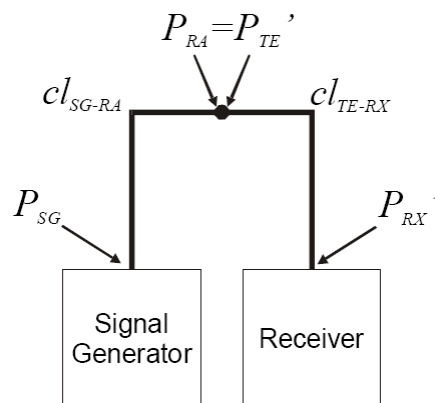


**Figure 2. TYPICAL CONFIGURATION FOR MEASURING PATH LOSS**

In order to determine  $P_{RA}$ , it is necessary to perform a cable reference measurement to remove the effects of the cable loss between signal generator and reference antenna, and between the test equipment port and the receiver. This establishes a reference point at the input to the reference antenna. Figure 3 illustrates the cable reference measurement configuration. Assuming the power level at the signal generator is fixed, it is easy to show that the difference between  $P_{RA}$  and  $P_{TE}$  in Figure 2 is given by:

Equation 4

$$P_{RA} - P_{TE} = P_{RX}' - P_{RX},$$



**Figure 3. CABLE REFERENCE CALIBRATION CONFIGURATION**

Where  $P_{RX'}$  is the power measured at the receiver during the cable reference test, and  $P_{RX}$  is the power measured at the receiver during the range path loss measurement in Figure 2. Thus, the path loss is then just given by:

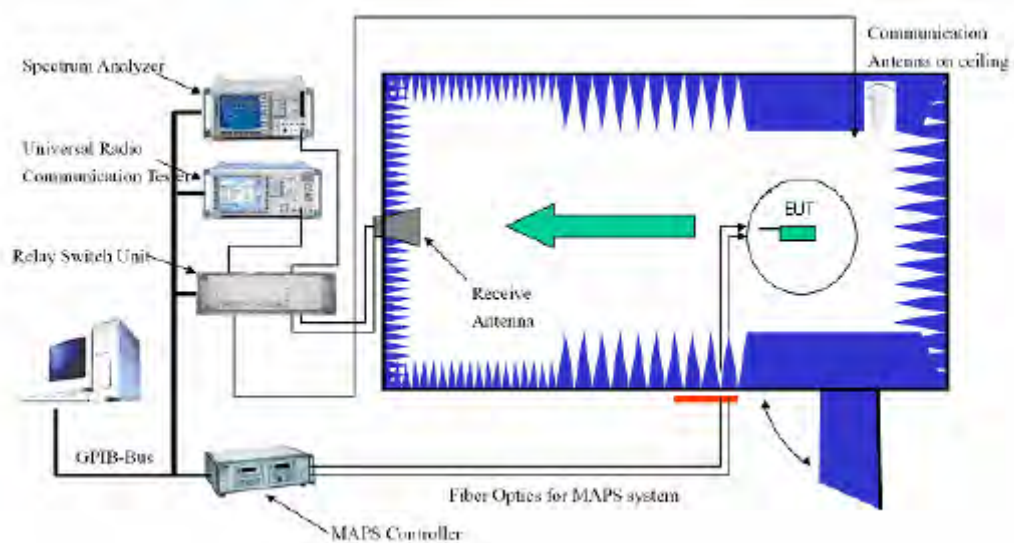
Equation 5

$$PL = G_{RA} + P_{RX'} - P_{RX}$$

$$EIRP = P_t + P_L$$

$P_t$  = Often referred to as antenna output power

#### 4.3.3 Test Setup Layout of ERP/EIRP





#### 4.3.4 Test Result

| GSM 850 Radiated Power ERP |                  |                         |           |         |
|----------------------------|------------------|-------------------------|-----------|---------|
| Maximum Output Power       |                  |                         |           |         |
| Frequency (MHz)            | Read Level (dBm) | Correction factor (dBm) | ERP (dBm) | ERP (W) |
| 824.20                     | 75.48            | -49.50                  | 25.98     | 0.396   |
| 836.40                     | 77.29            | -49.70                  | 27.59     | 0.575   |
| 848.80                     | 76.52            | -49.70                  | 26.82     | 0.481   |

| GPRS 850 Radiated Power ERP |                  |                         |           |         |
|-----------------------------|------------------|-------------------------|-----------|---------|
| Maximum Output Power        |                  |                         |           |         |
| Frequency (MHz)             | Read Level (dBm) | Correction factor (dBm) | ERP (dBm) | ERP (W) |
| 824.20                      | 75.02            | -49.50                  | 25.52     | 0.356   |
| 836.40                      | 75.50            | -49.70                  | 25.80     | 0.380   |
| 848.80                      | 74.90            | -49.70                  | 25.20     | 0.331   |

| EGPRS 850 Radiated Power ERP |                  |                         |           |         |
|------------------------------|------------------|-------------------------|-----------|---------|
| Maximum Output Power         |                  |                         |           |         |
| Frequency (MHz)              | Read Level (dBm) | Correction factor (dBm) | ERP (dBm) | ERP (W) |
| 824.20                       | 73.02            | -49.50                  | 23.52     | 0.225   |
| 836.40                       | 72.89            | -49.70                  | 23.19     | 0.208   |
| 848.80                       | 73.13            | -49.70                  | 23.43     | 0.221   |



| PCS 1900 Radiated Power EIRP |                  |                         |            |          |
|------------------------------|------------------|-------------------------|------------|----------|
| Maximum Output Power         |                  |                         |            |          |
| Frequency (MHz)              | Read Level (dBm) | Correction factor (dBm) | EIRP (dBm) | EIRP (W) |
| 1850.20                      | 85.78            | -55.40                  | 30.38      | 1.091    |
| 1880.00                      | 87.00            | -55.60                  | 31.40      | 1.381    |
| 1909.80                      | 87.39            | -55.70                  | 31.69      | 1.476    |

| GPRS 1900 Radiated Power EIRP |                  |                         |            |          |
|-------------------------------|------------------|-------------------------|------------|----------|
| Maximum Output Power          |                  |                         |            |          |
| Frequency (MHz)               | Read Level (dBm) | Correction factor (dBm) | EIRP (dBm) | EIRP (W) |
| 1850.20                       | 85.63            | -55.40                  | 30.23      | 1.053    |
| 1880.00                       | 86.57            | -55.60                  | 30.97      | 1.249    |
| 1909.80                       | 86.62            | -55.70                  | 30.92      | 1.237    |

| EGPRS 1900 Radiated Power EIRP |                  |                         |            |          |
|--------------------------------|------------------|-------------------------|------------|----------|
| Maximum Output Power           |                  |                         |            |          |
| Frequency (MHz)                | Read Level (dBm) | Correction factor (dBm) | EIRP (dBm) | EIRP (W) |
| 1850.20                        | 83.92            | -55.40                  | 28.52      | 0.711    |
| 1880.00                        | 84.17            | -55.60                  | 28.57      | 0.720    |
| 1909.80                        | 84.15            | -55.70                  | 28.45      | 0.699    |



| WCDMA Band V Radiated Power ERP |                  |                         |           |         |
|---------------------------------|------------------|-------------------------|-----------|---------|
| Maximum Output Power            |                  |                         |           |         |
| Frequency (MHz)                 | Read Level (dBm) | Correction factor (dBm) | ERP (dBm) | ERP (W) |
| 826.40                          | 66.22            | -49.50                  | 16.72     | 0.047   |
| 836.40                          | 66.43            | -49.70                  | 16.73     | 0.047   |
| 846.60                          | 67.37            | -49.70                  | 17.67     | 0.058   |

| WCDMA Band II Radiated Power EIRP |                  |                         |            |          |
|-----------------------------------|------------------|-------------------------|------------|----------|
| Maximum Output Power              |                  |                         |            |          |
| Frequency (MHz)                   | Read Level (dBm) | Correction factor (dBm) | EIRP (dBm) | EIRP (W) |
| 1852.40                           | 79.53            | -55.40                  | 24.13      | 0.259    |
| 1880.00                           | 79.99            | -55.60                  | 24.39      | 0.275    |
| 1907.60                           | 78.78            | -55.70                  | 23.08      | 0.203    |

Note: ERP = Read Level + Correction factor

## 4.4 Occupied Bandwidth and Band Edge Measurement

### 4.4.1 Measurement Instruments

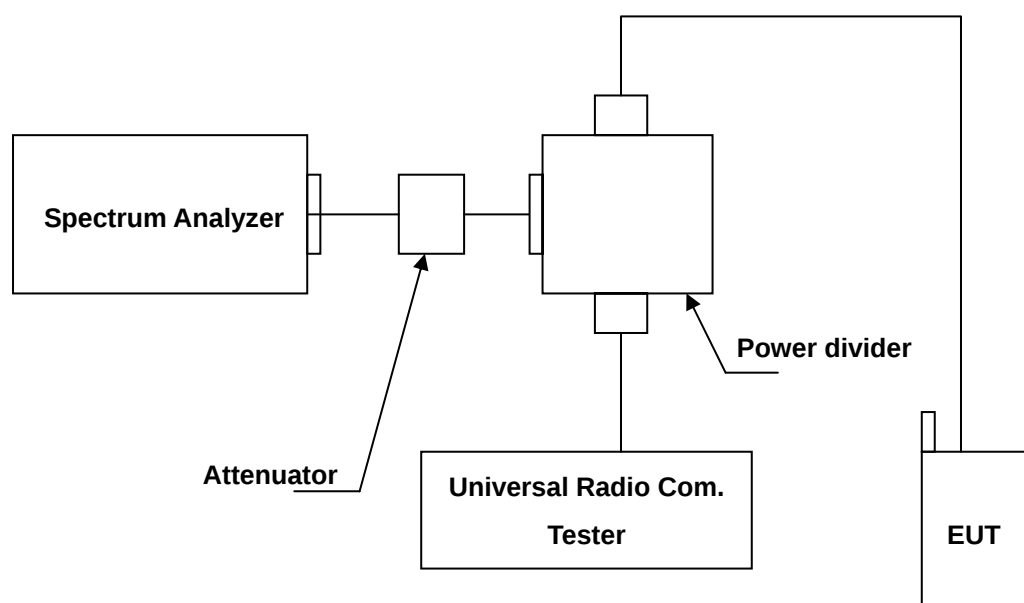
As described in chapter 5 of this test report.

### 4.4.2 Test Procedure

The measurement is made according to FCC rules part 22 and 24:

1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The occupied bandwidth of middle channel for the highest and lowest RF powers was measured.
3. The band edge of low and high channels for the highest RF powers within the transmitting frequency band were measured. Setting RBW as roughly BW/100.
4. The band edge setting:
  - a. RB=3 kHz; VB=3 kHz for GSM 850 and PCS 1900.
  - b. RB=100 kHz; VB=100 kHz for WCDMA Band V and WCDMA Band II.

### 4.4.3 Test Setup Layout





#### 4.4.4 Occupied Bandwidth Test Result

| GSM 850             |                 |                                          |
|---------------------|-----------------|------------------------------------------|
| Channel             | Frequency (MHz) | Output Power - 26 dBc<br>Bandwidth (kHz) |
| 128                 | 824.2           | 245.1888                                 |
| 190                 | 836.6           | 248.0627                                 |
| 251                 | 848.8           | 245.8881                                 |
| RB:3KHz , VBW:10KHz |                 |                                          |

| GPRS 850            |                 |                                          |
|---------------------|-----------------|------------------------------------------|
| Channel             | Frequency (MHz) | Output Power - 26 dBc<br>Bandwidth (kHz) |
| 128                 | 824.2           | 250.3068                                 |
| 190                 | 836.6           | 256.8299                                 |
| 251                 | 848.8           | 256.5317                                 |
| RB:3KHz , VBW:10KHz |                 |                                          |

| EGPRS 850           |                 |                                          |
|---------------------|-----------------|------------------------------------------|
| Channel             | Frequency (MHz) | Output Power - 26 dBc<br>Bandwidth (kHz) |
| 128                 | 824.2           | 265.0302                                 |
| 190                 | 836.6           | 278.8453                                 |
| 251                 | 848.8           | 263.8628                                 |
| RB:3KHz , VBW:10KHz |                 |                                          |



| PCS 1900            |                 |                                          |
|---------------------|-----------------|------------------------------------------|
| Channel             | Frequency (MHz) | Output Power - 26 dBc<br>Bandwidth (kHz) |
| 512                 | 1850.2          | 251.1007                                 |
| 661                 | 1880.0          | 250.7348                                 |
| 810                 | 1909.8          | 248.6136                                 |
| RB:3KHz , VBW:10KHz |                 |                                          |

| GPRS 1900           |                 |                                          |
|---------------------|-----------------|------------------------------------------|
| Channel             | Frequency (MHz) | Output Power - 26 dBc<br>Bandwidth (kHz) |
| 512                 | 1850.2          | 267.4098                                 |
| 661                 | 1880.0          | 270.6331                                 |
| 810                 | 1909.8          | 268.1583                                 |
| RB:3KHz , VBW:10KHz |                 |                                          |

| EGPRS 1900          |                 |                                          |
|---------------------|-----------------|------------------------------------------|
| Channel             | Frequency (MHz) | Output Power - 26 dBc<br>Bandwidth (kHz) |
| 512                 | 1850.2          | 268.8886                                 |
| 661                 | 1880.0          | 270.1801                                 |
| 810                 | 1909.8          | 261.8226                                 |
| RB:3KHz , VBW:10KHz |                 |                                          |

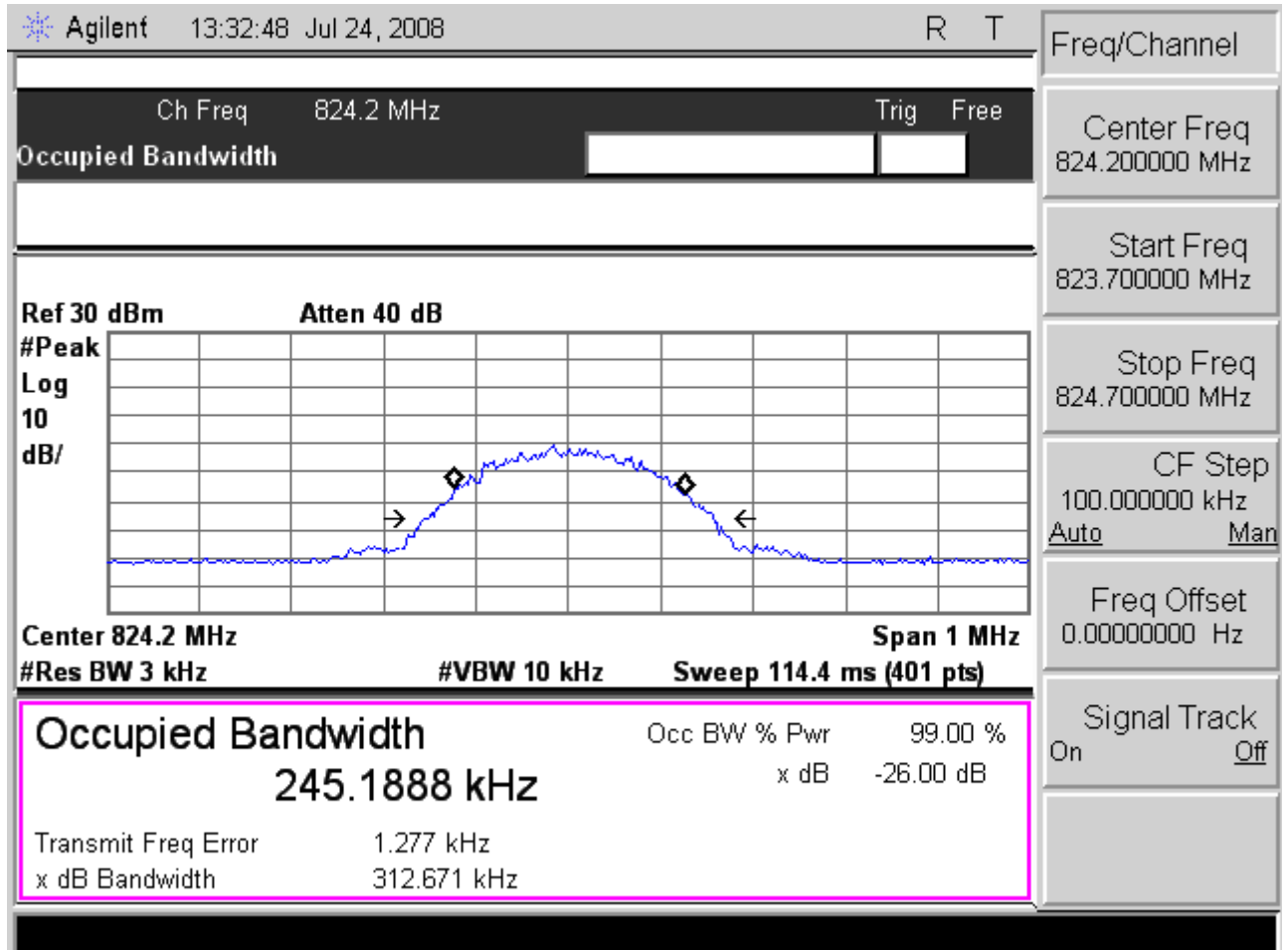


| WCDMA Band V          |                 |                                          |
|-----------------------|-----------------|------------------------------------------|
| Channel               | Frequency (MHz) | Output Power - 26 dBc<br>Bandwidth (MHz) |
| 4132                  | 826.4           | 4.1635                                   |
| 4182                  | 836.4           | 4.1944                                   |
| 4233                  | 846.6           | 4.1614                                   |
| RB:30KHz , VBW:300KHz |                 |                                          |

| WCDMA Band II         |                 |                                          |
|-----------------------|-----------------|------------------------------------------|
| Channel               | Frequency (MHz) | Output Power - 26 dBc<br>Bandwidth (MHz) |
| 9262                  | 1852.4          | 4.1667                                   |
| 9400                  | 1880.0          | 4.1716                                   |
| 9538                  | 1907.6          | 4.1770                                   |
| RB:30KHz , VBW:300KHz |                 |                                          |

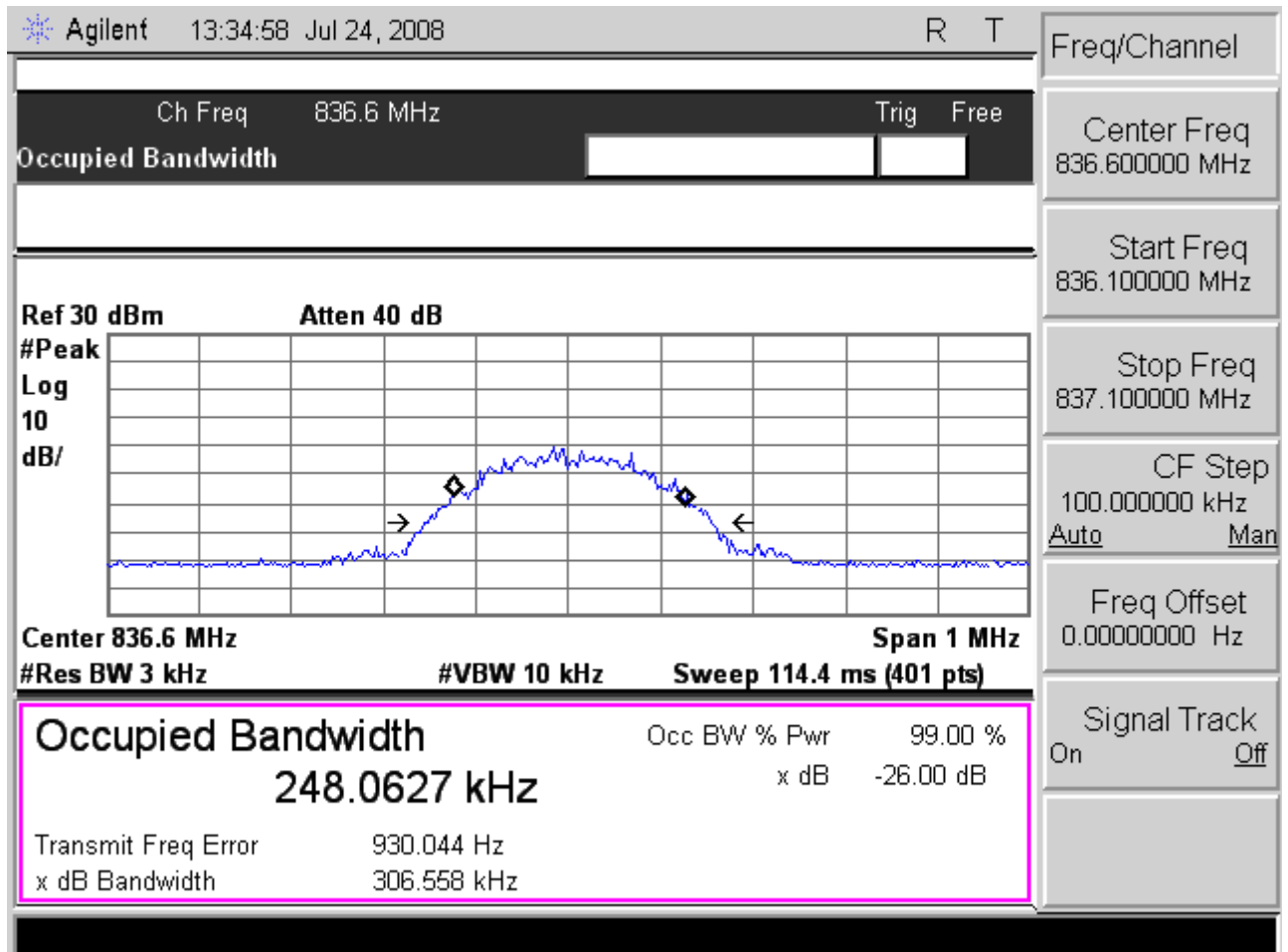


Test Mode: GSM 850 CH128 99% Occupied Bandwidth



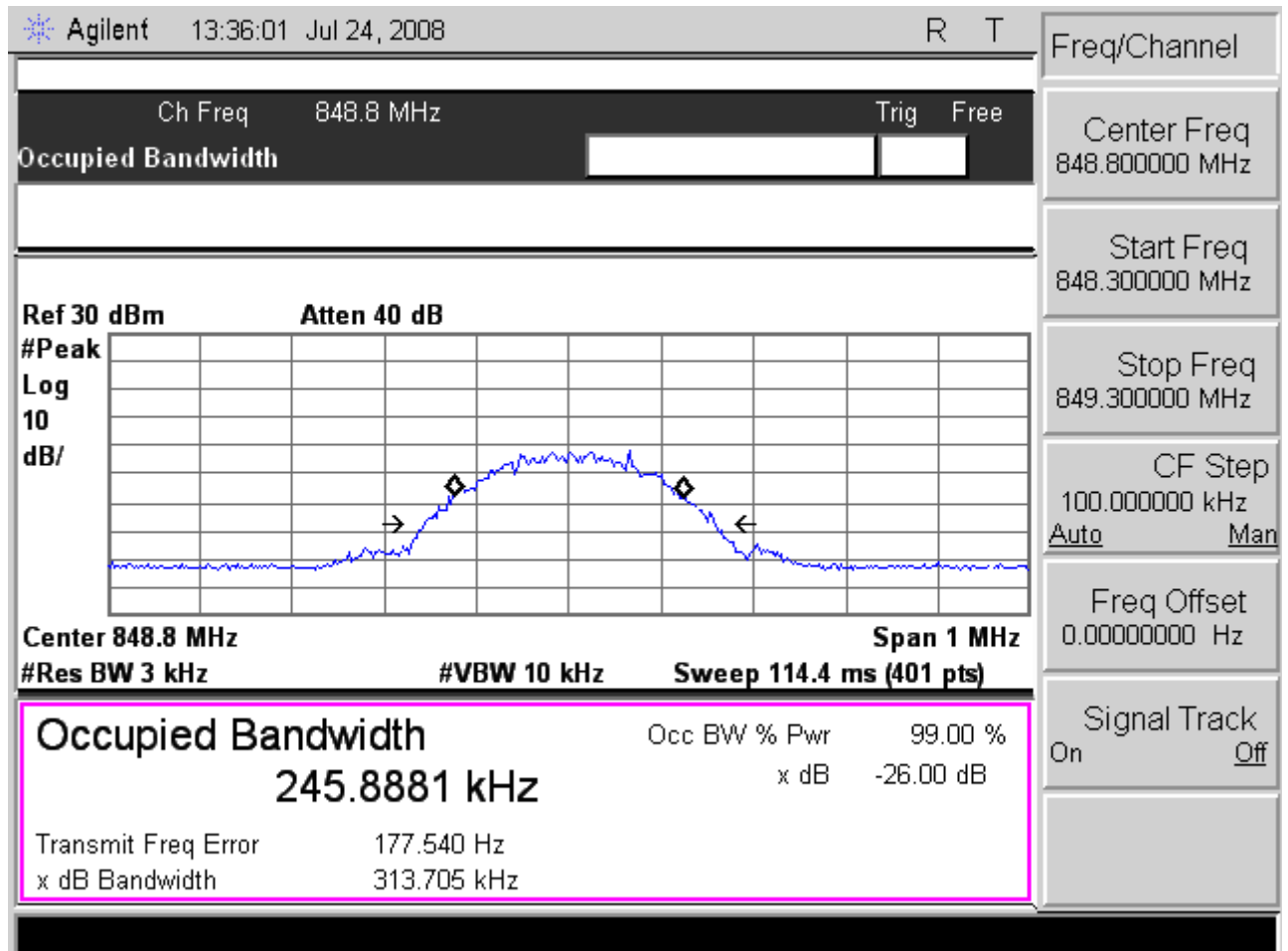


Test Mode: GSM 850 CH190 99% Occupied Bandwidth



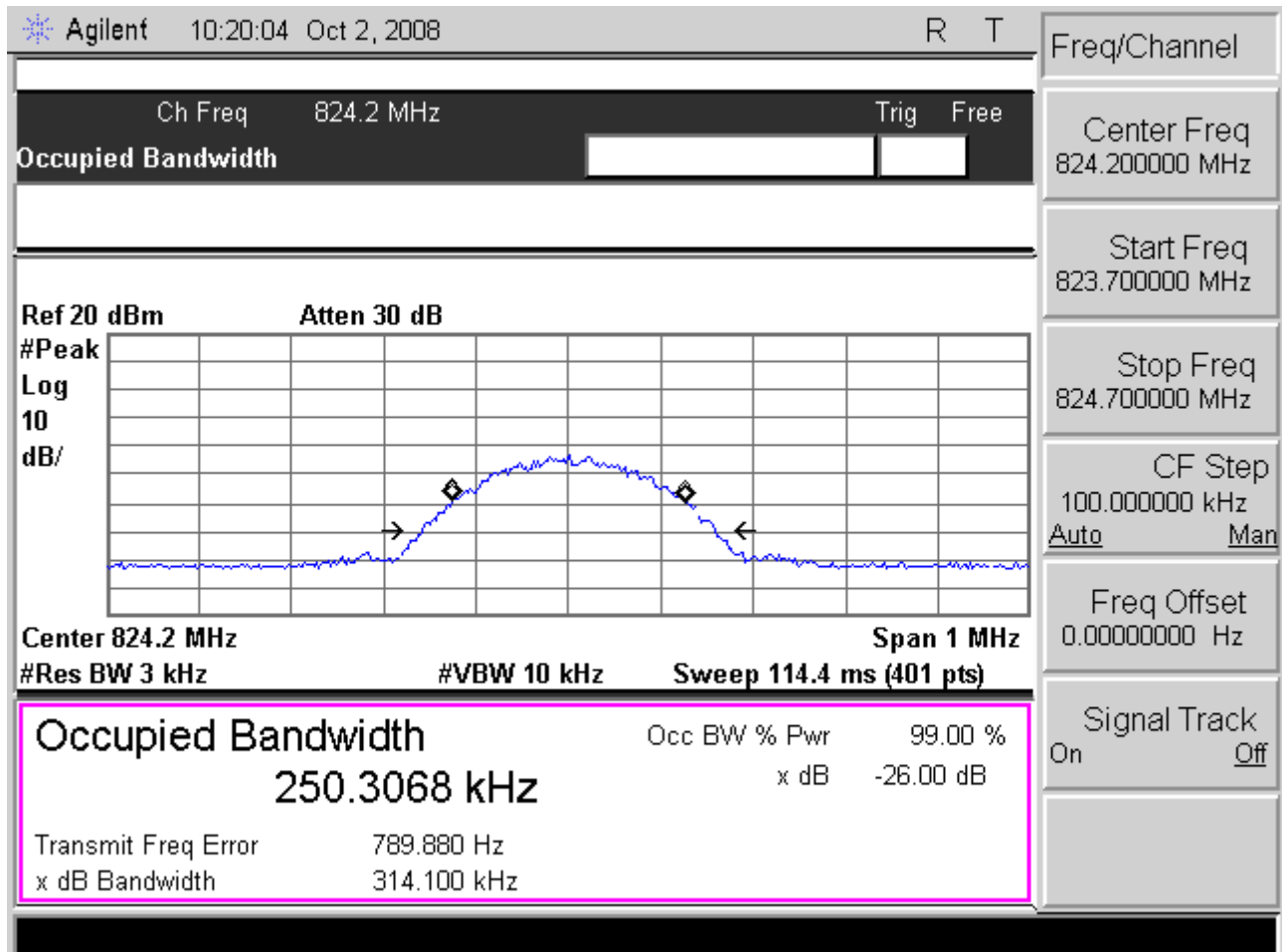


Test Mode: GSM 850 CH251 99% Occupied Bandwidth



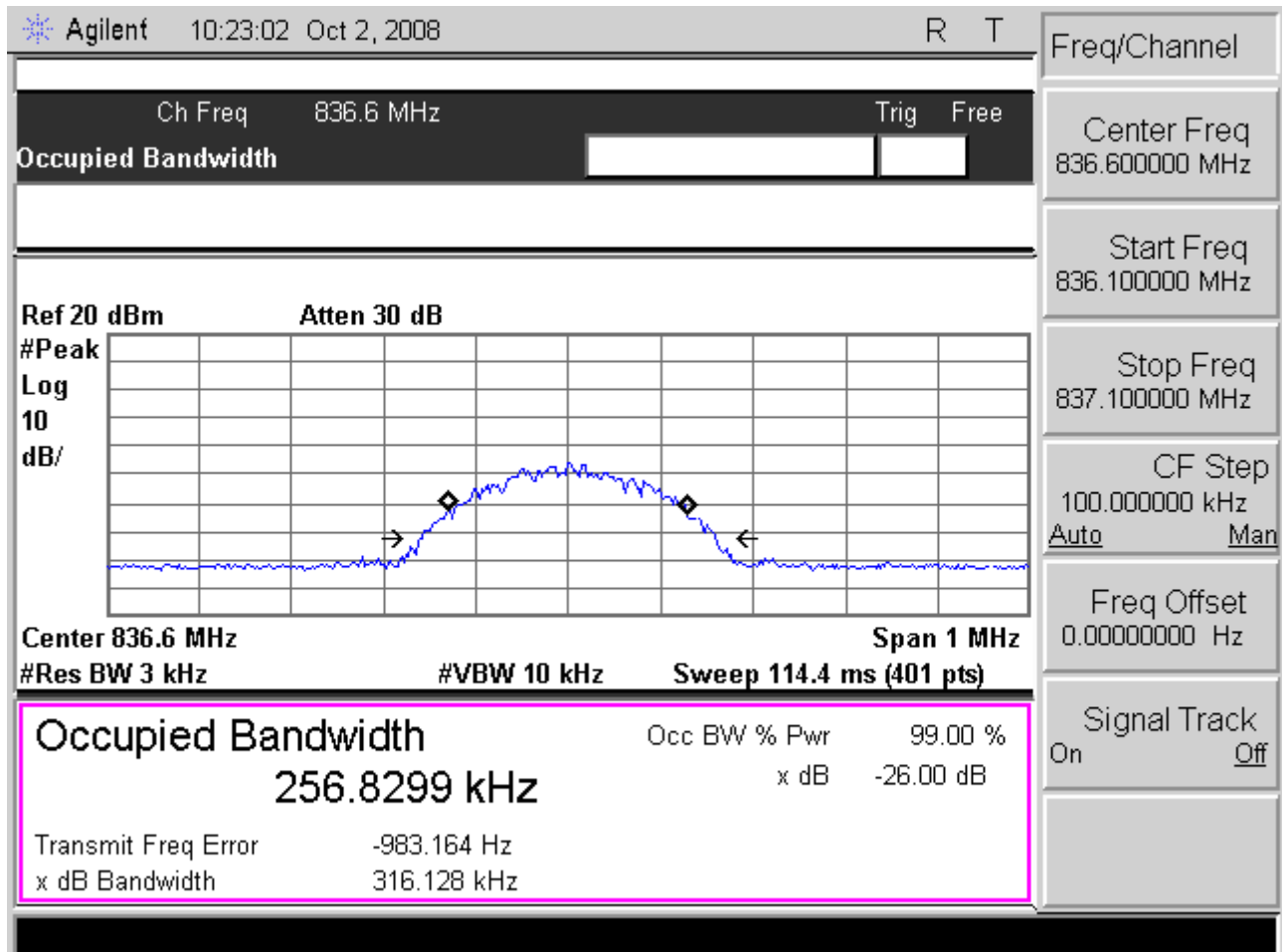


**Test Mode: GPRS 850 CH128 99% Occupied Bandwidth**



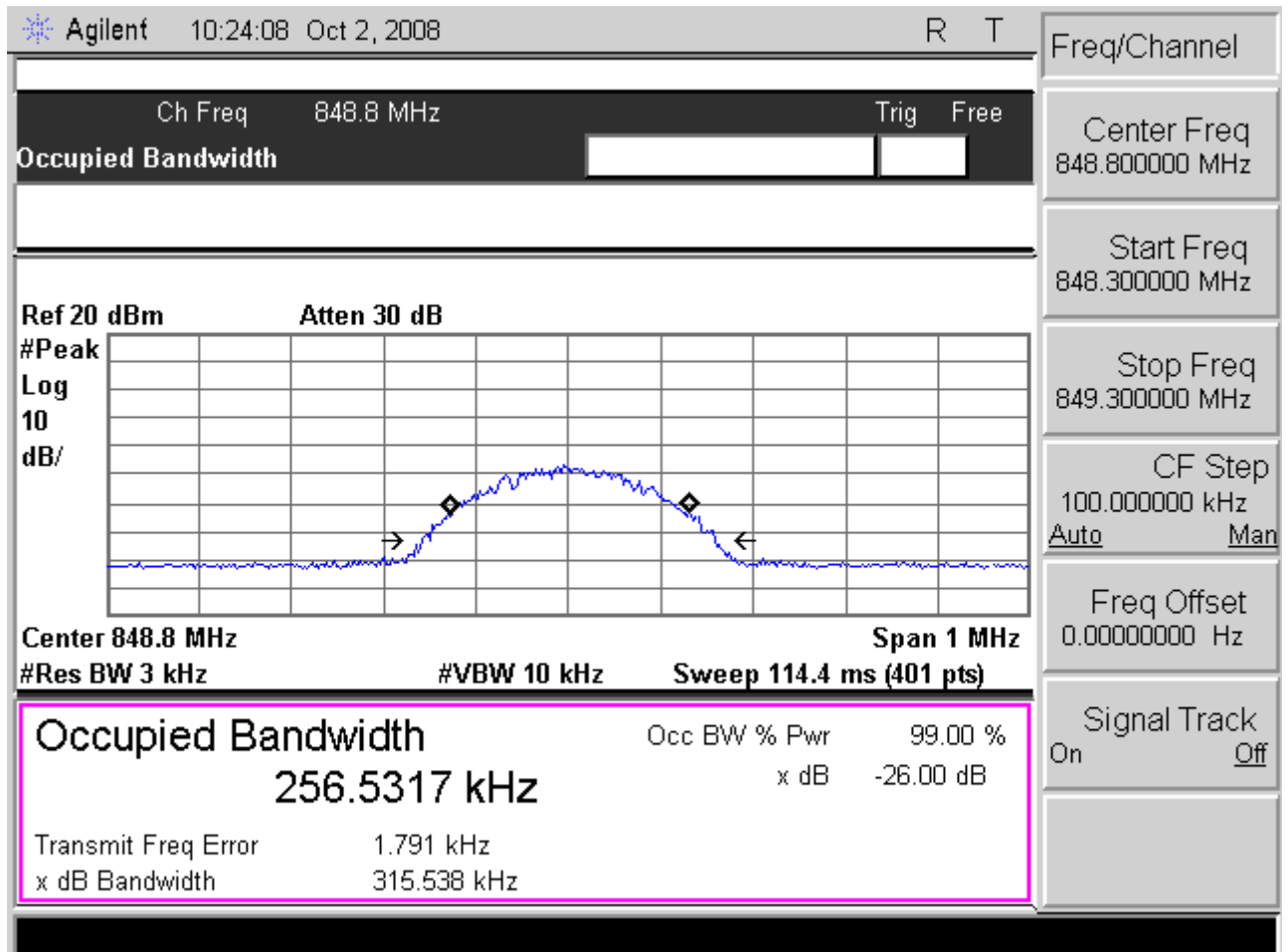


**Test Mode: GPRS 850 CH190 99% Occupied Bandwidth**



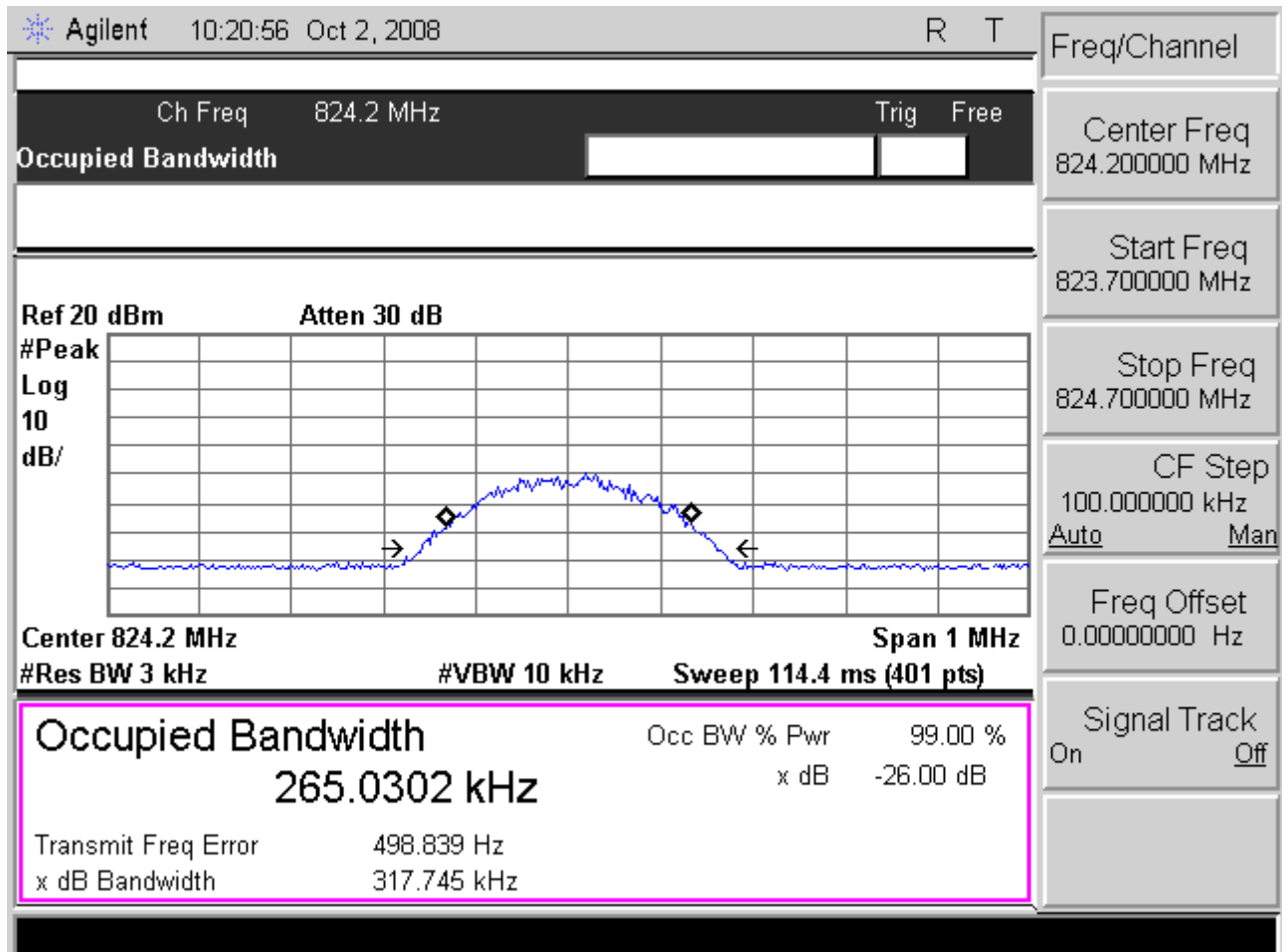


Test Mode: GPRS 850 CH251 99% Occupied Bandwidth



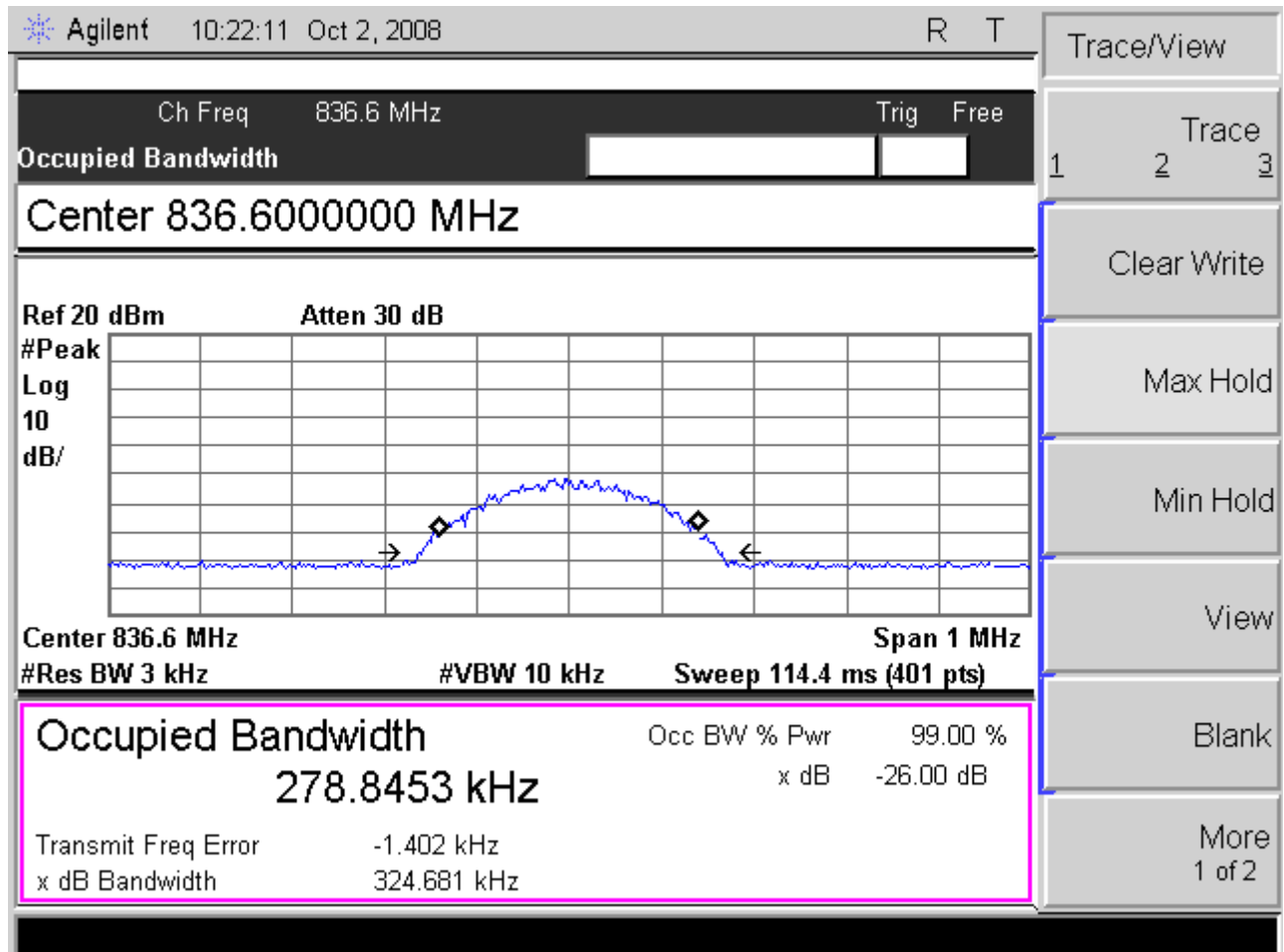


Test Mode: EGPRS 850 CH128 99% Occupied Bandwidth



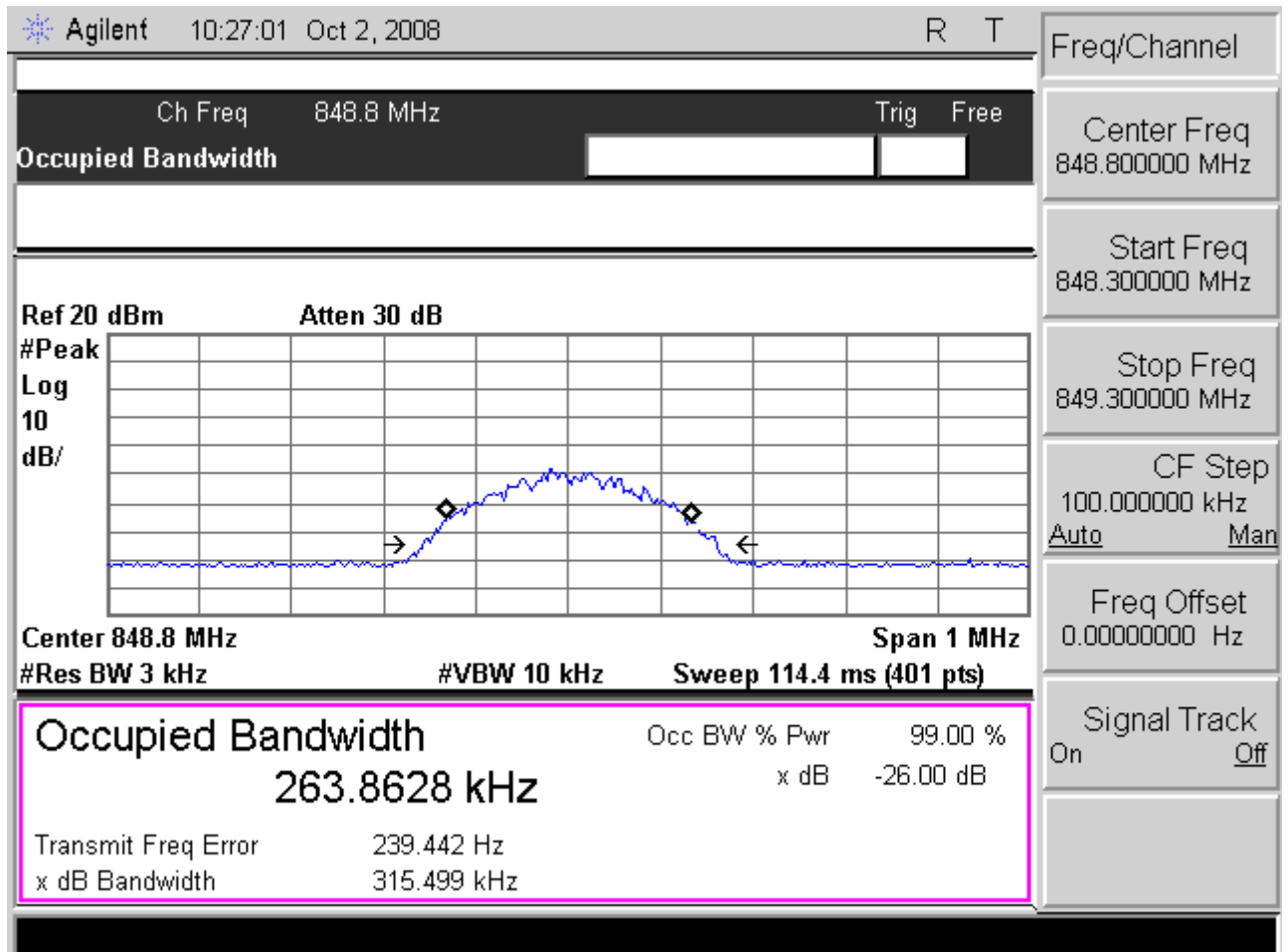


Test Mode: EGPRS 850 CH190 99% Occupied Bandwidth



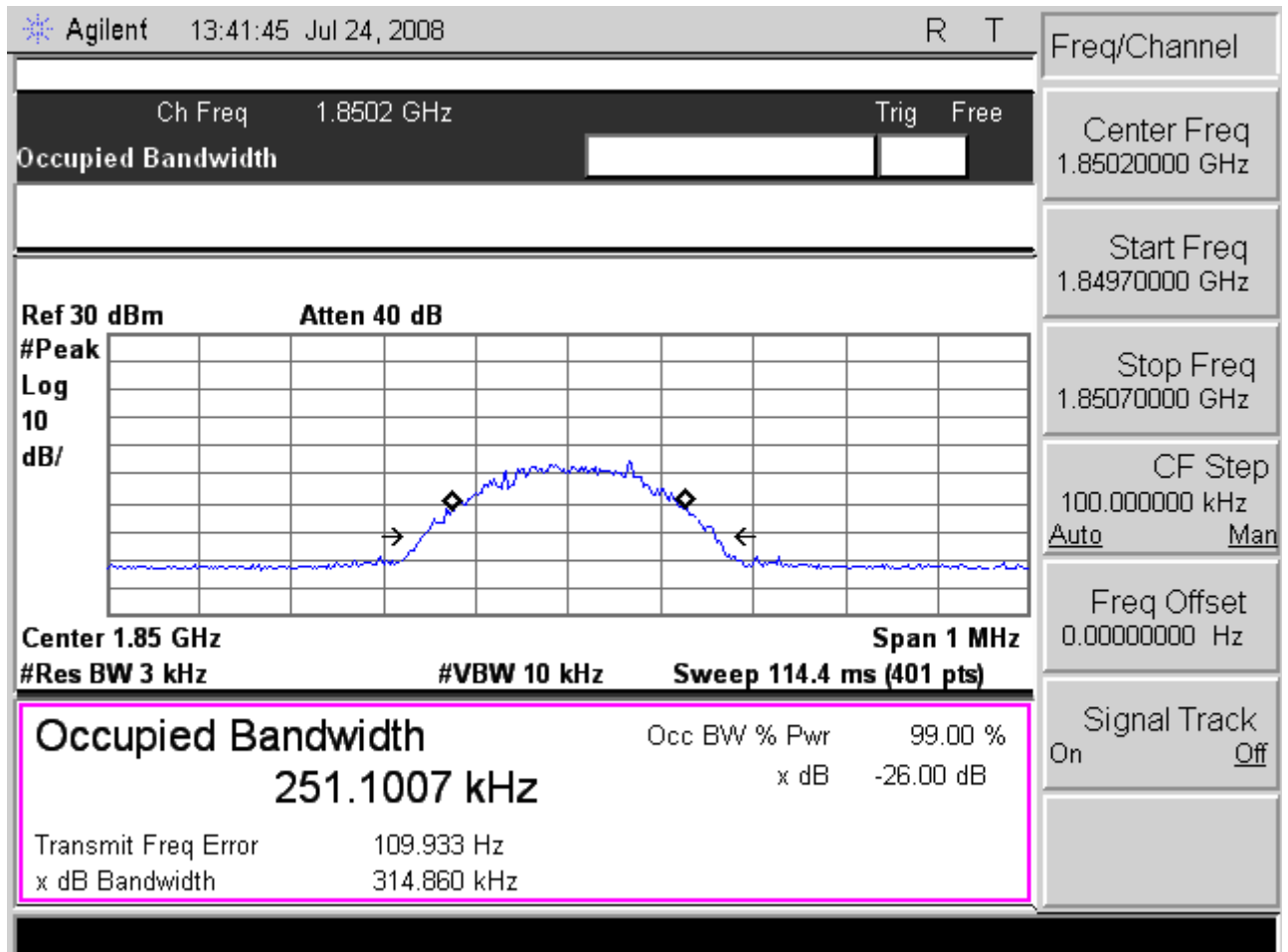


Test Mode: EGPRS 850 CH251 99% Occupied Bandwidth



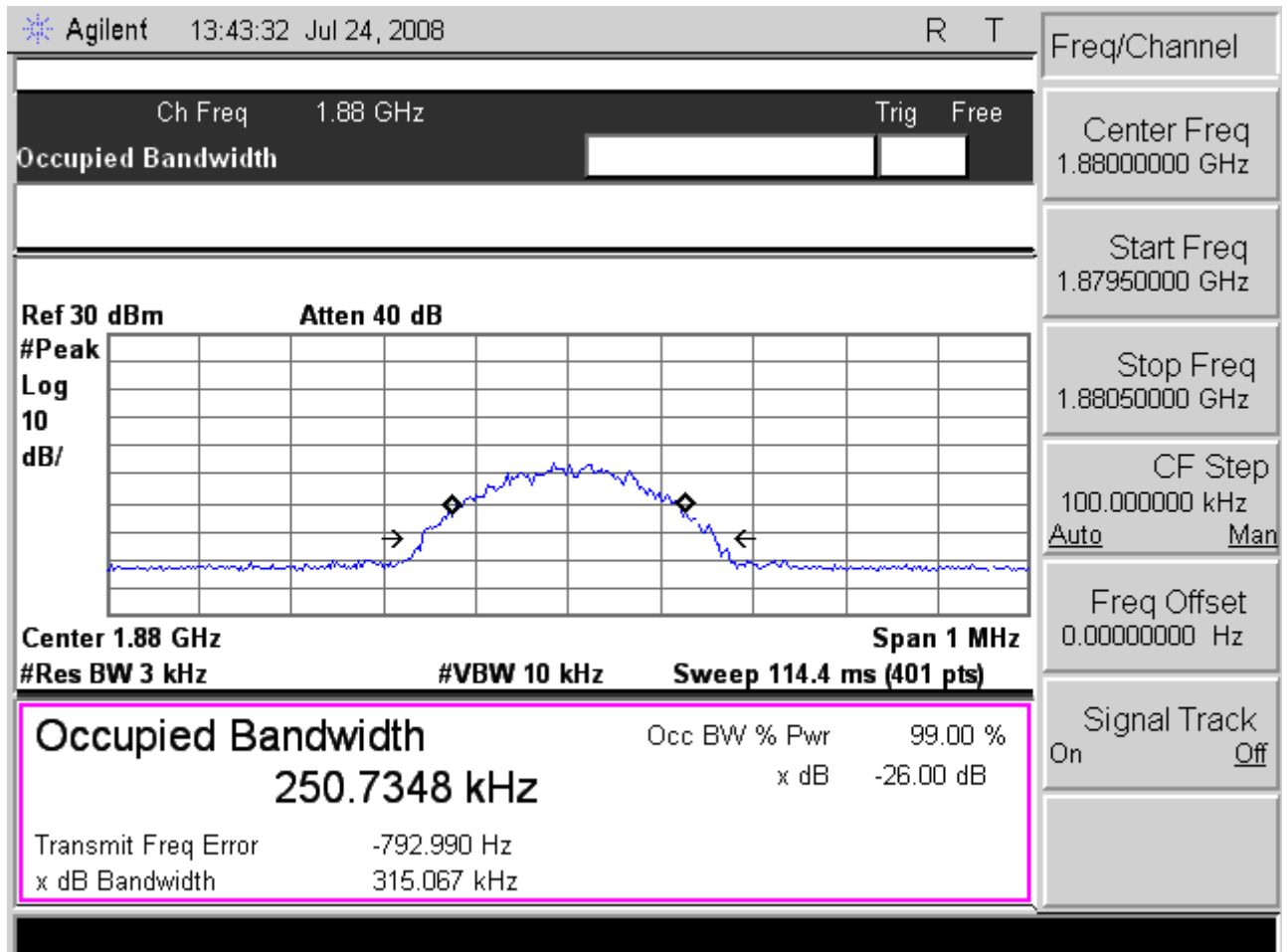


Test Mode: PCS 1900 CH512 99% Occupied Bandwidth



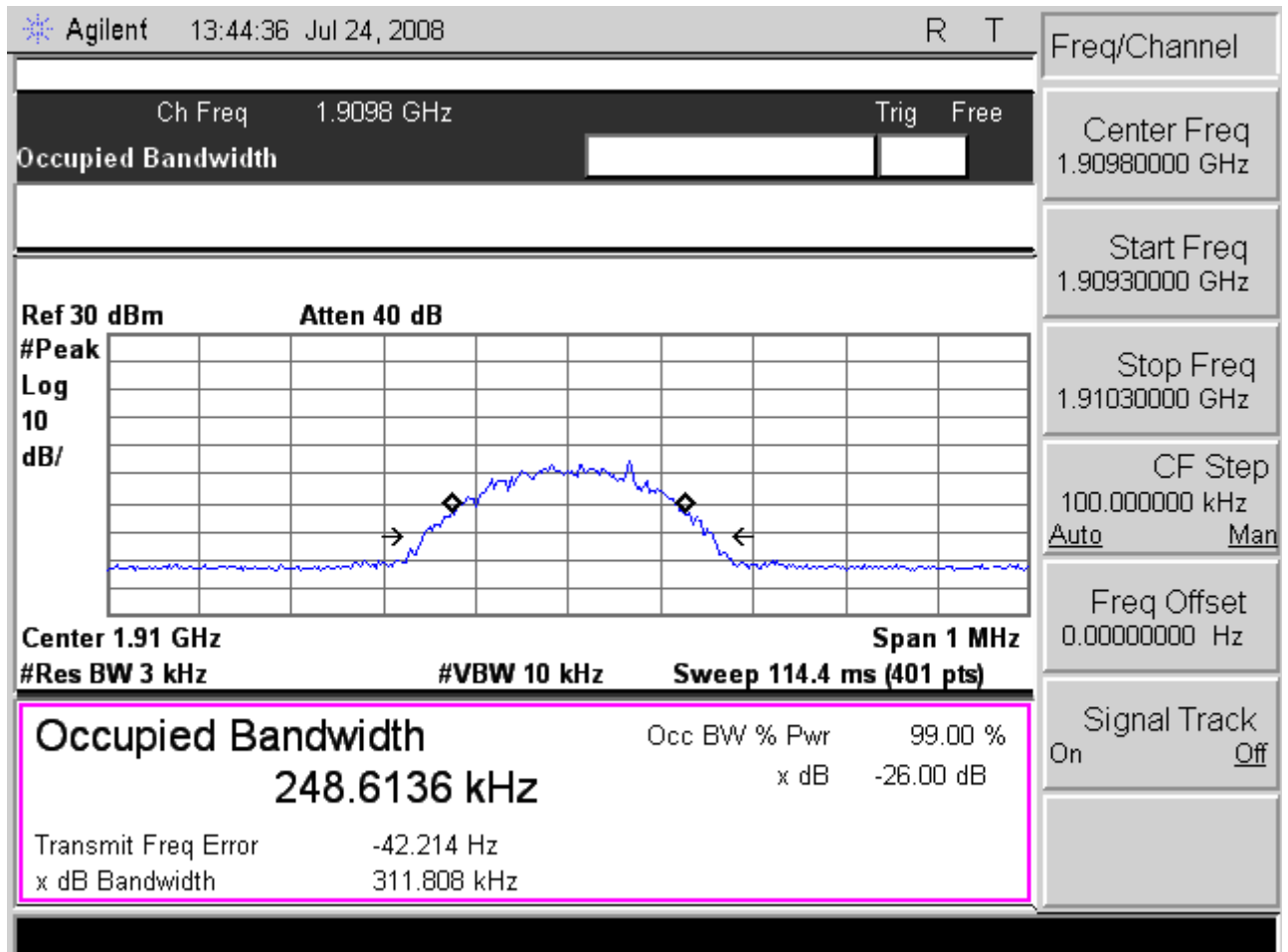


Test Mode: PCS 1900 CH661 99% Occupied Bandwidth



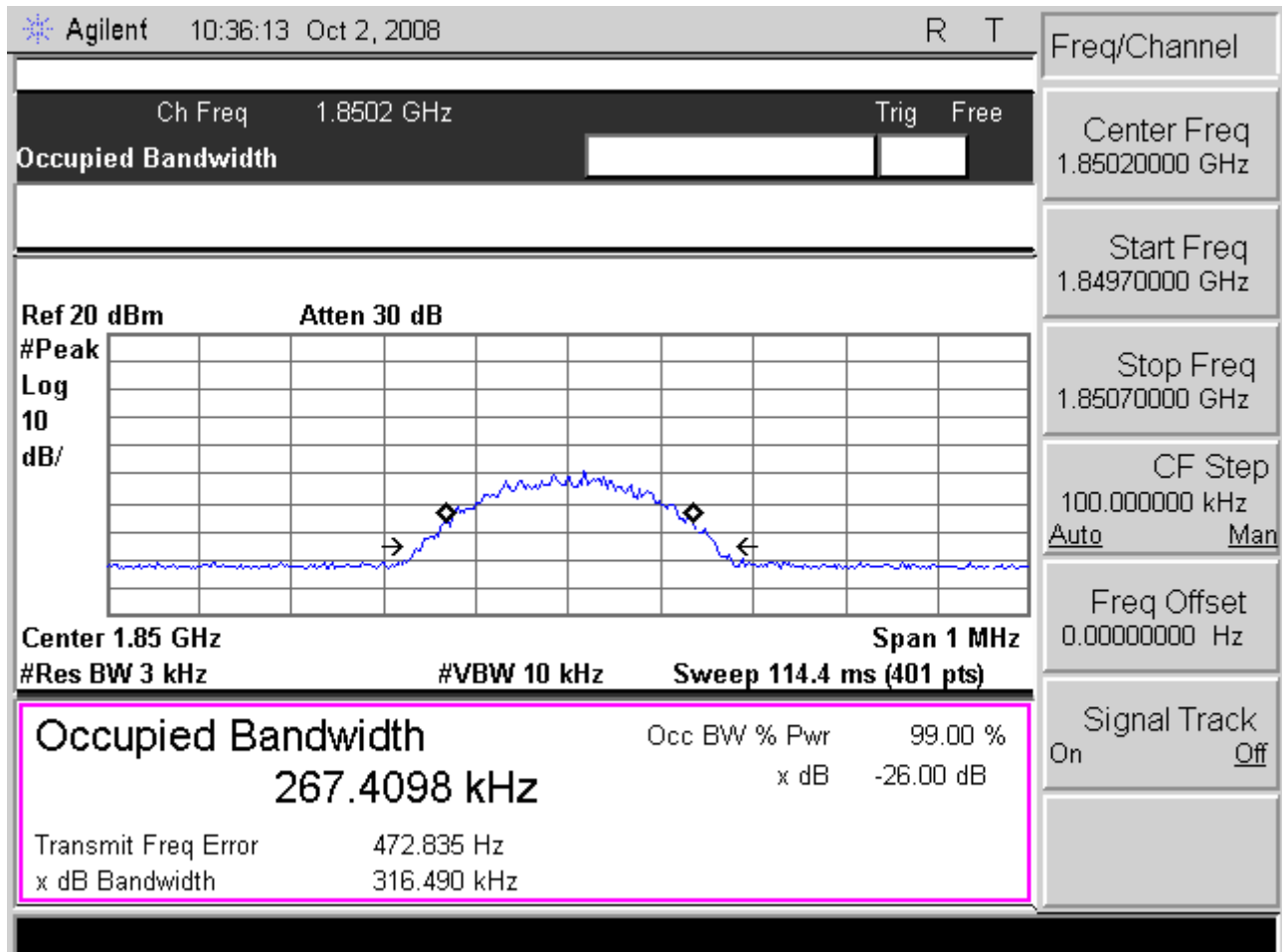


Test Mode: PCS 1900 CH810 99% Occupied Bandwidth



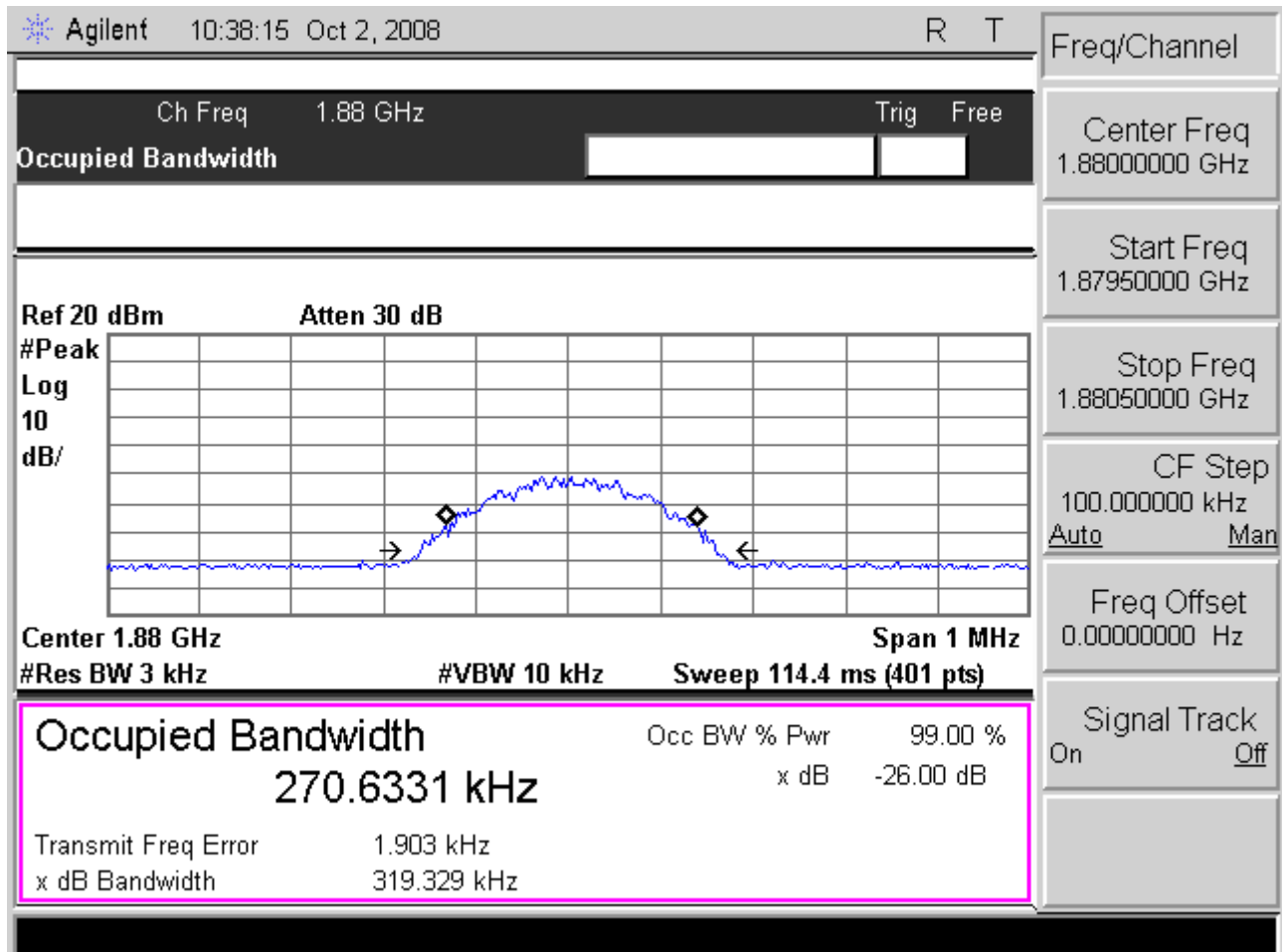


Test Mode: GPRS 1900 CH512 99% Occupied Bandwidth



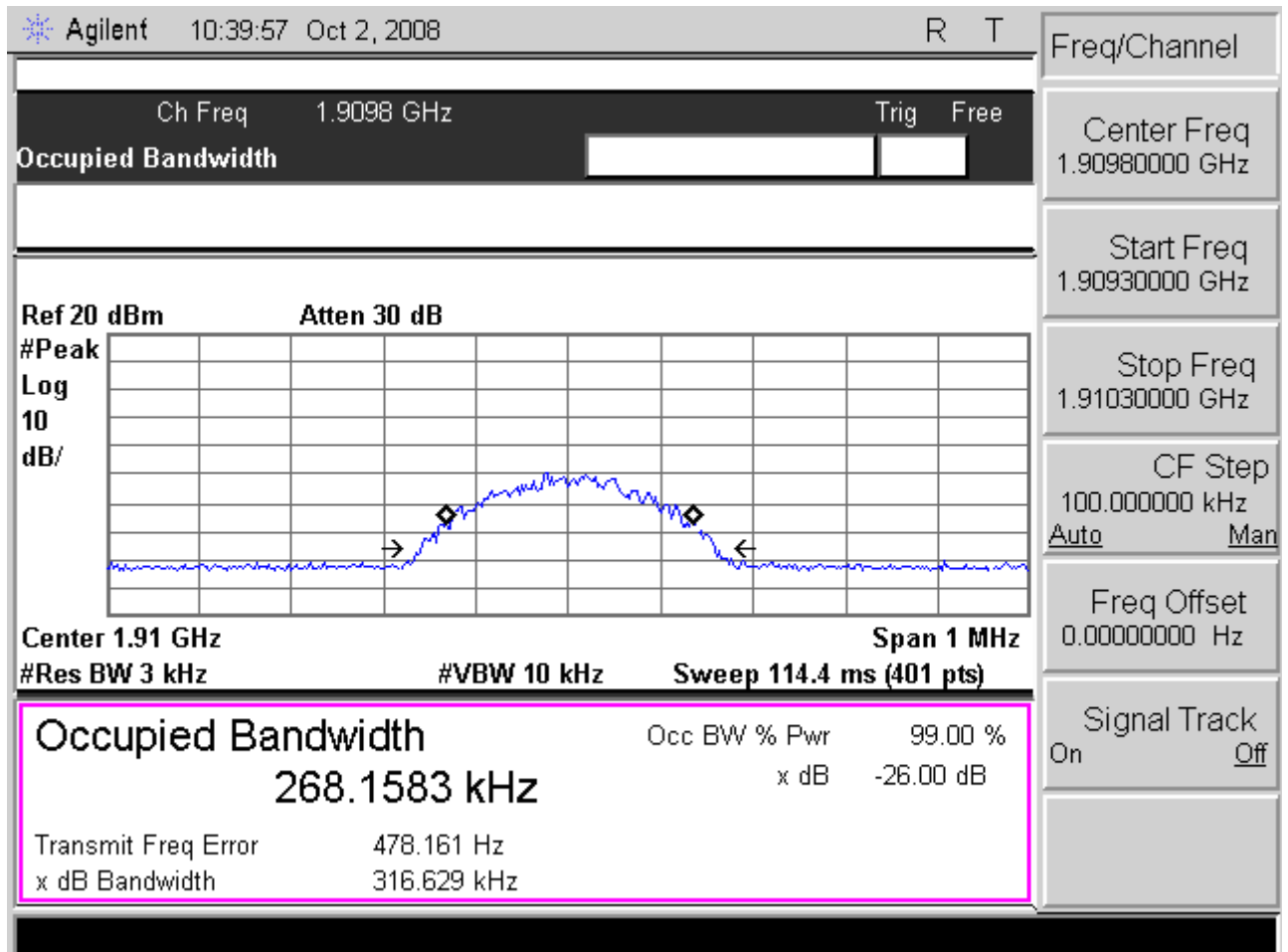


Test Mode: GPRS 1900 CH661 99% Occupied Bandwidth



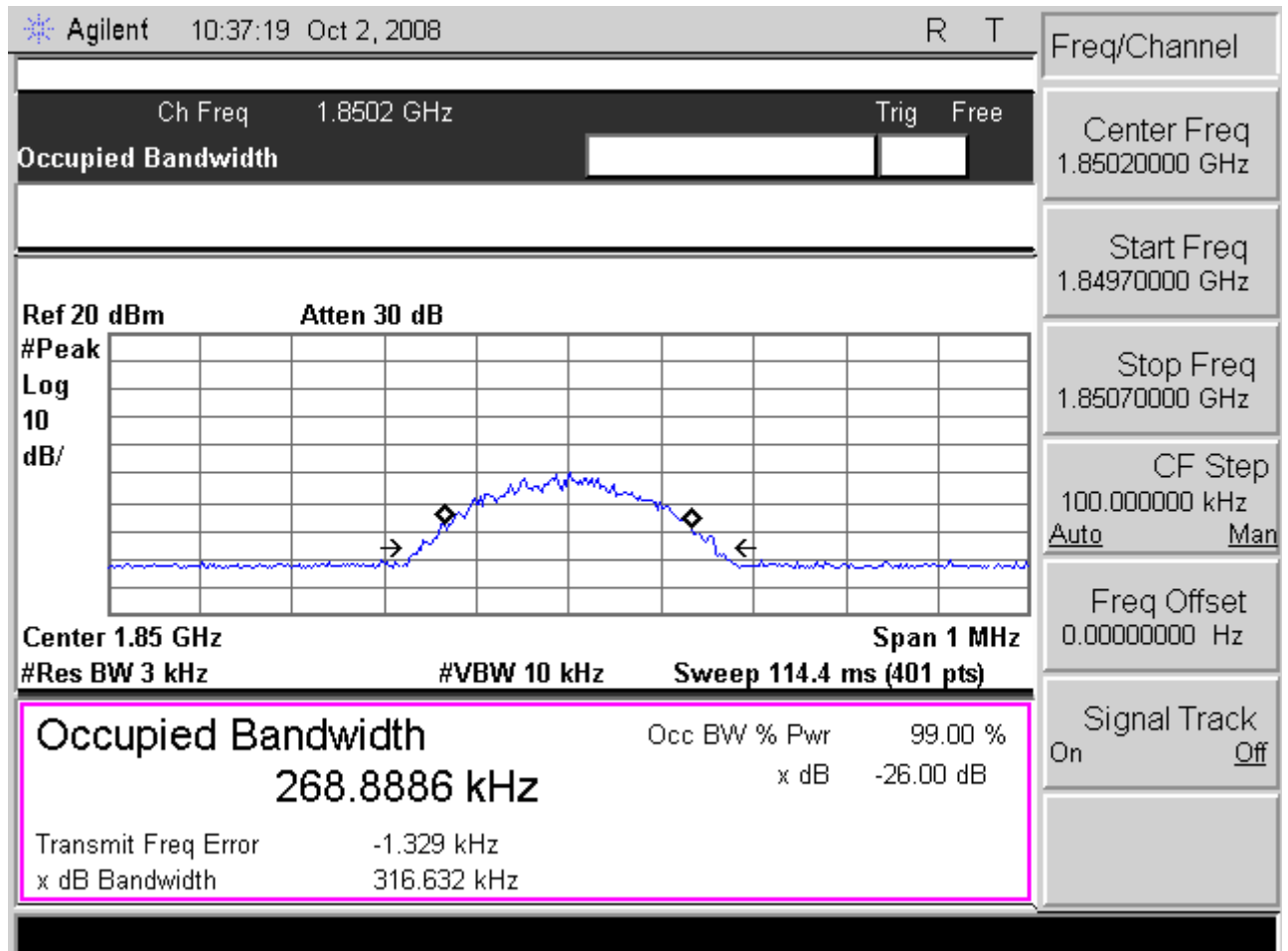


Test Mode: GPRS 1900 CH810 99% Occupied Bandwidth



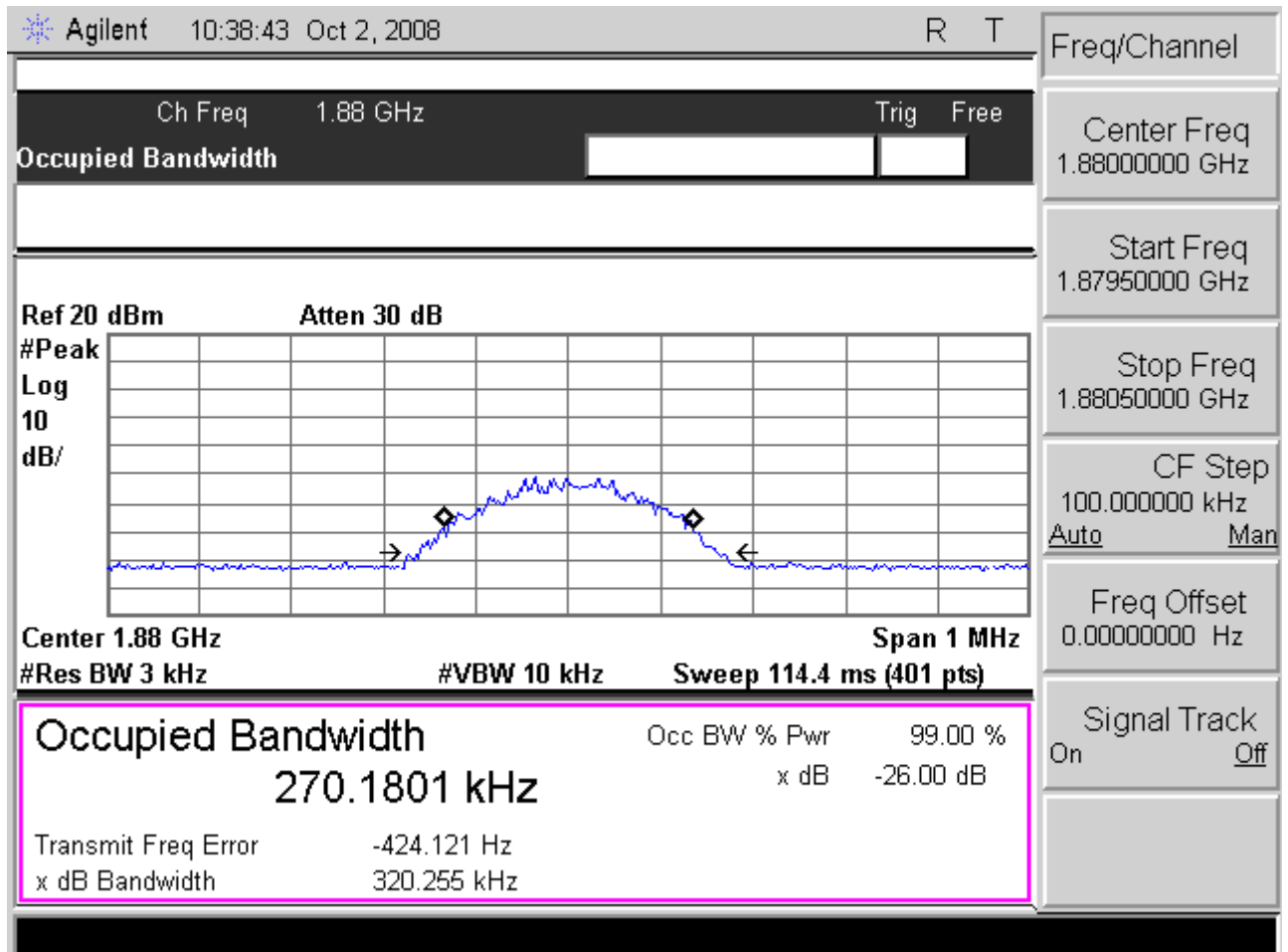


Test Mode: EGPRS 1900 CH512 99% Occupied Bandwidth



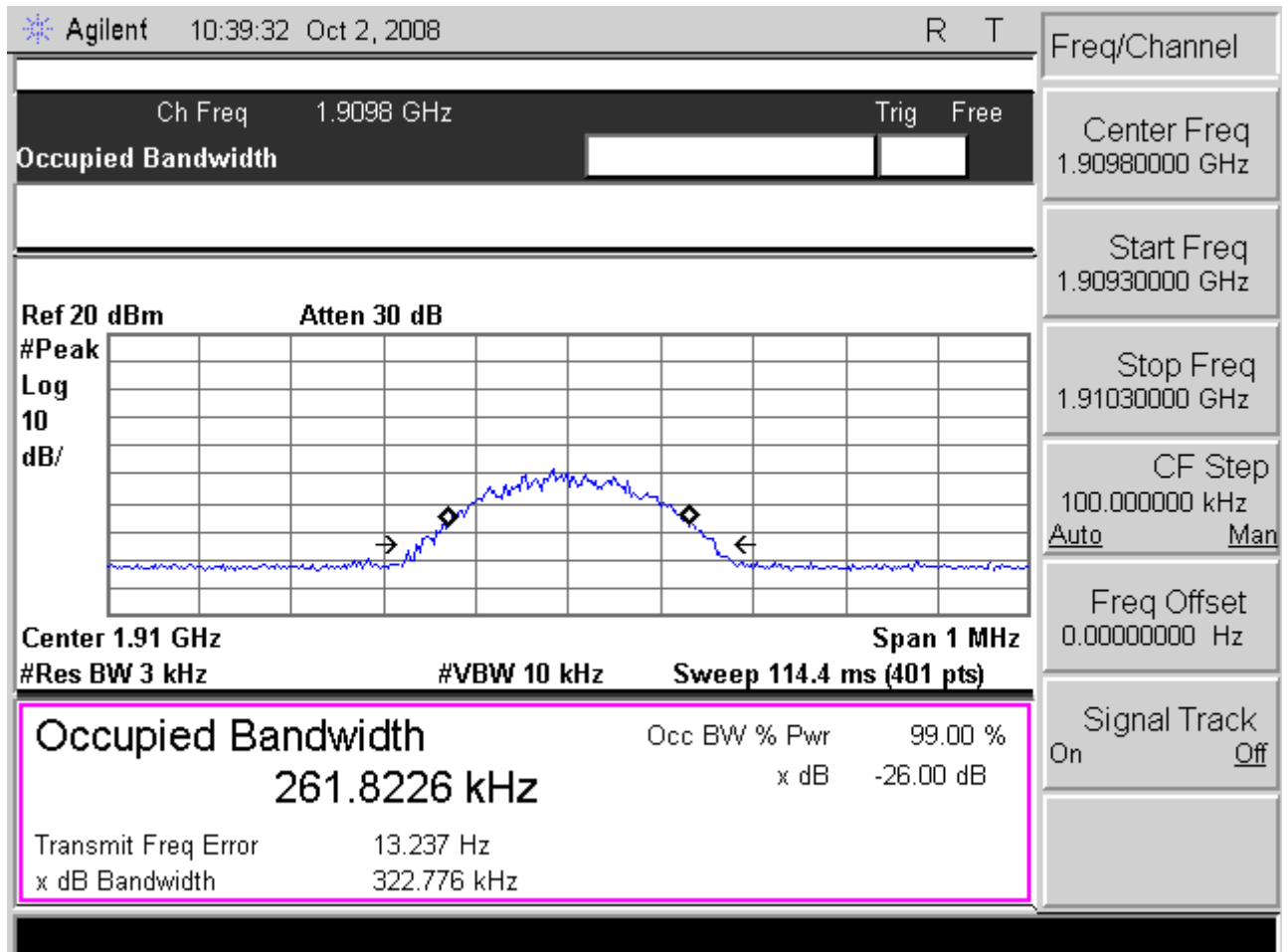


Test Mode: EGPRS 1900 CH661 99% Occupied Bandwidth



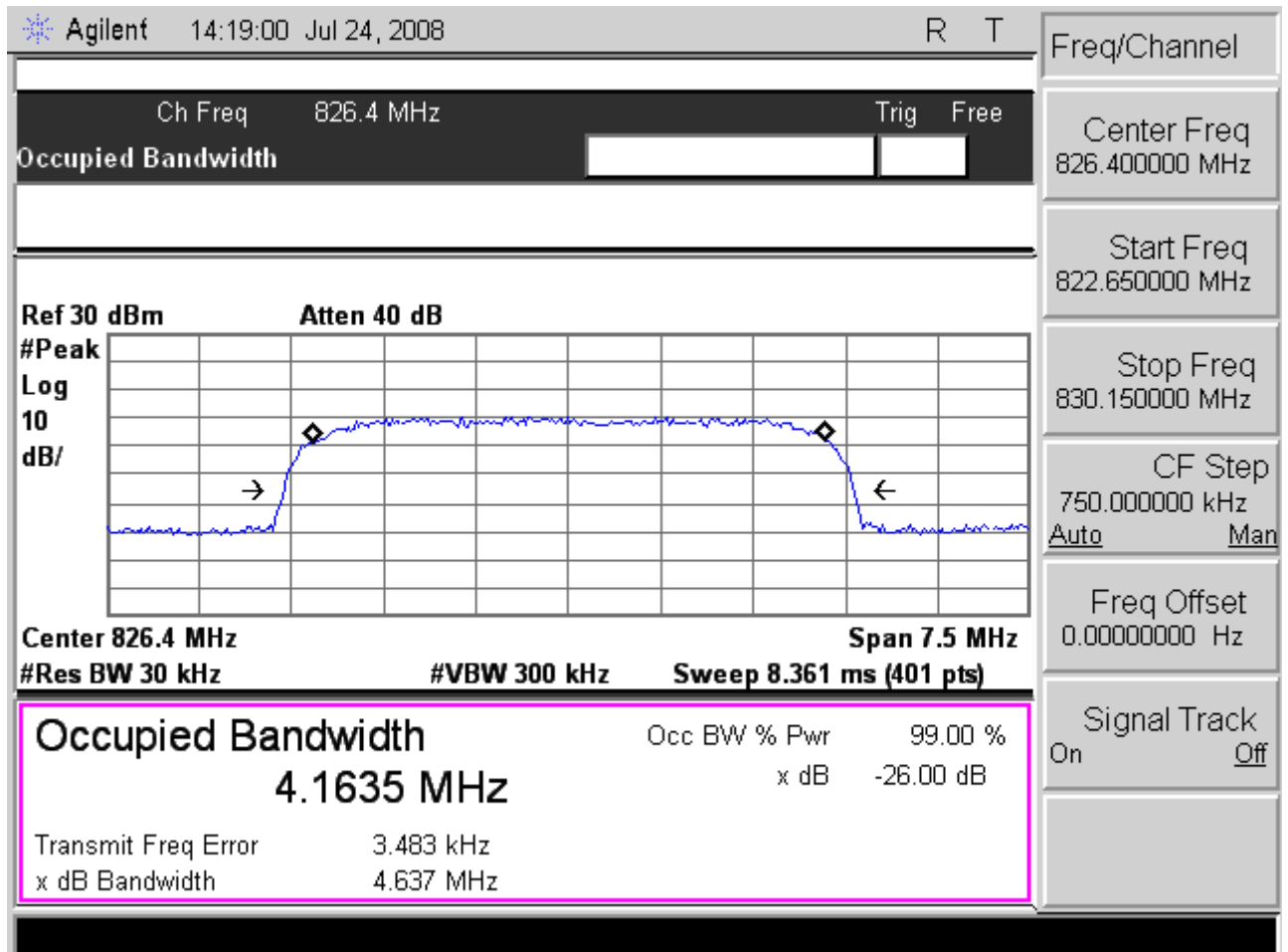


Test Mode: EGPRS 1900 CH810 99% Occupied Bandwidth



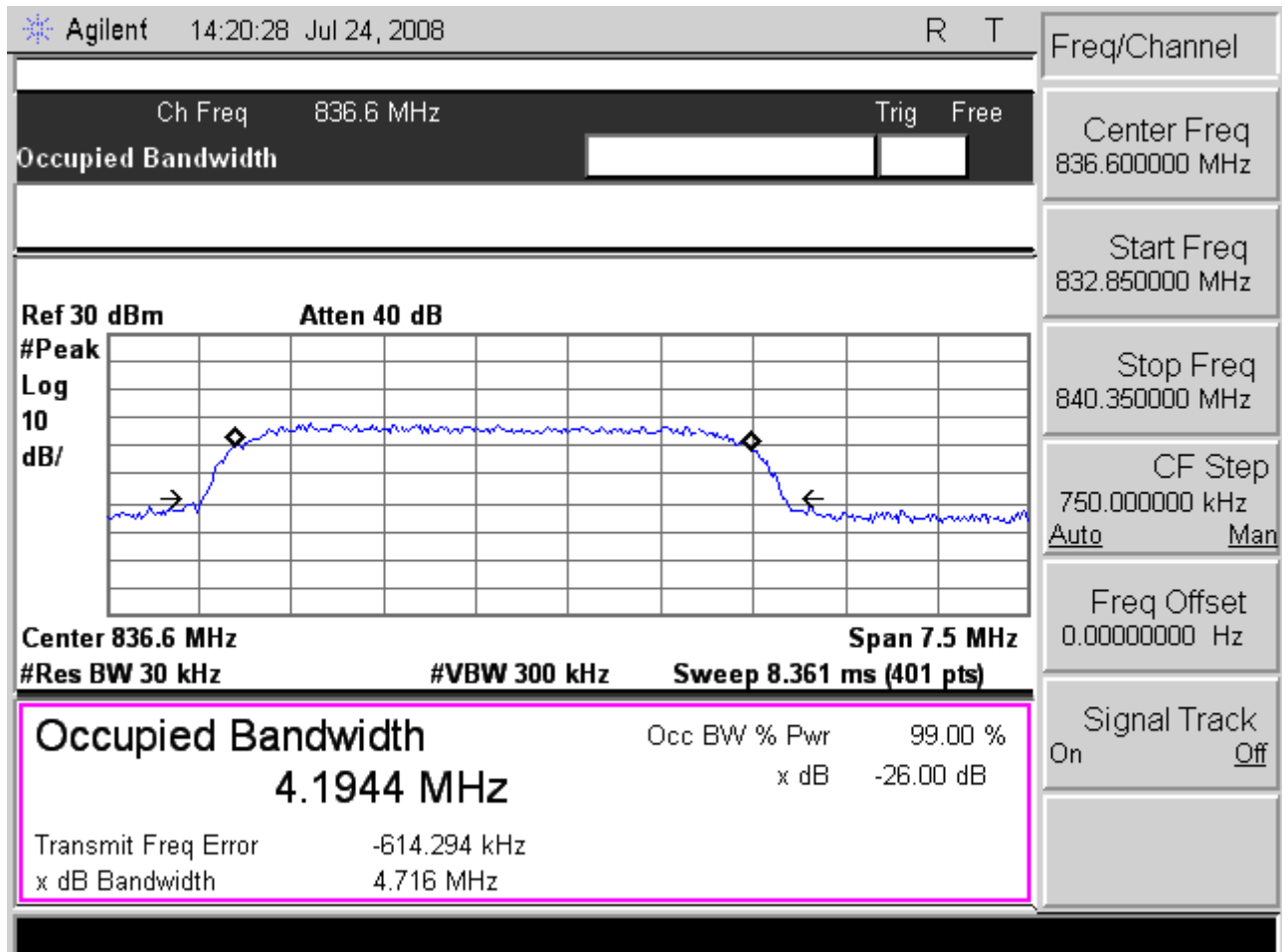


Test Mode: WCDMA Band V CH4132 99% Occupied Bandwidth



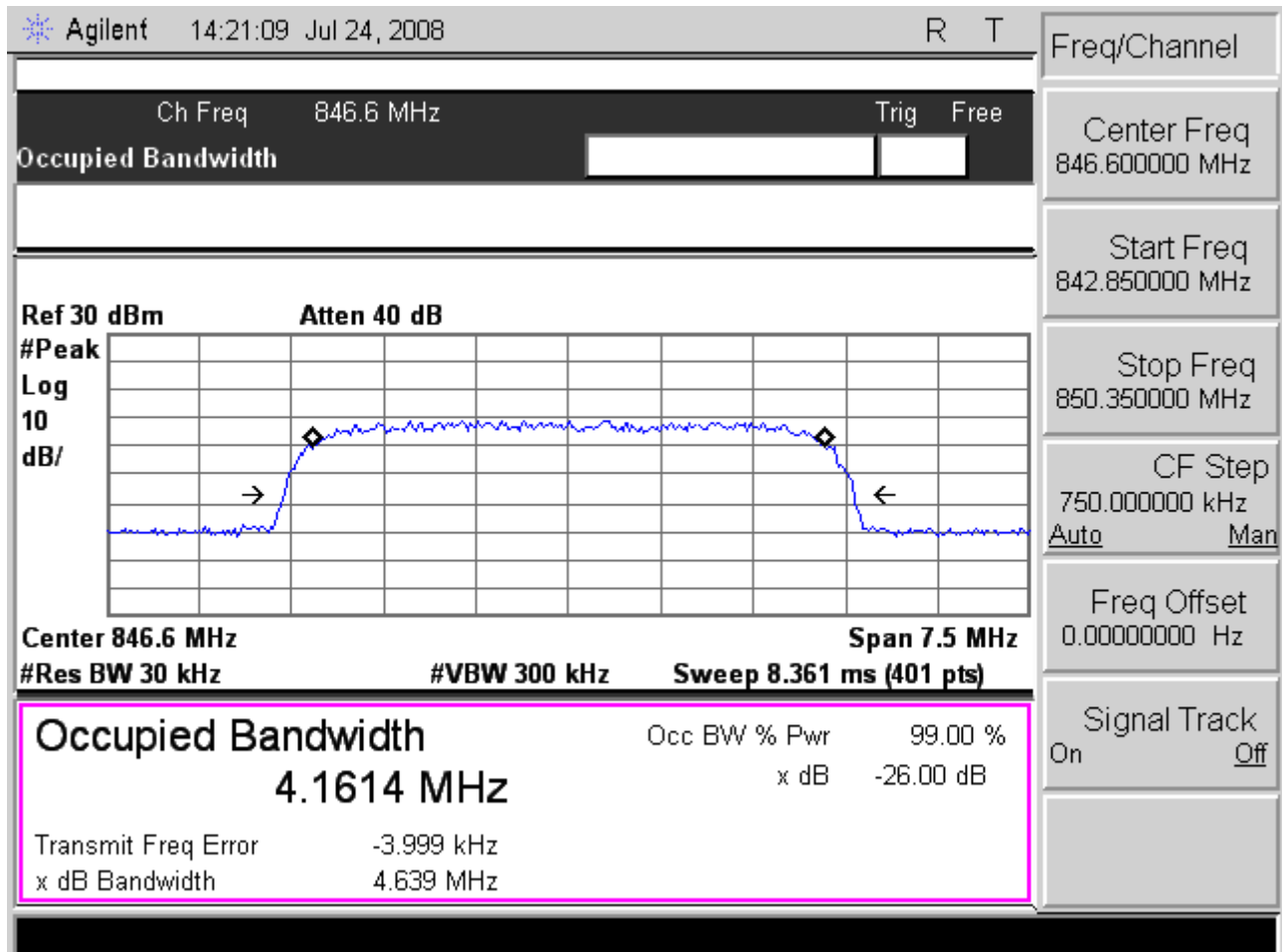


Test Mode: WCDMA Band V CH4182 99% Occupied Bandwidth



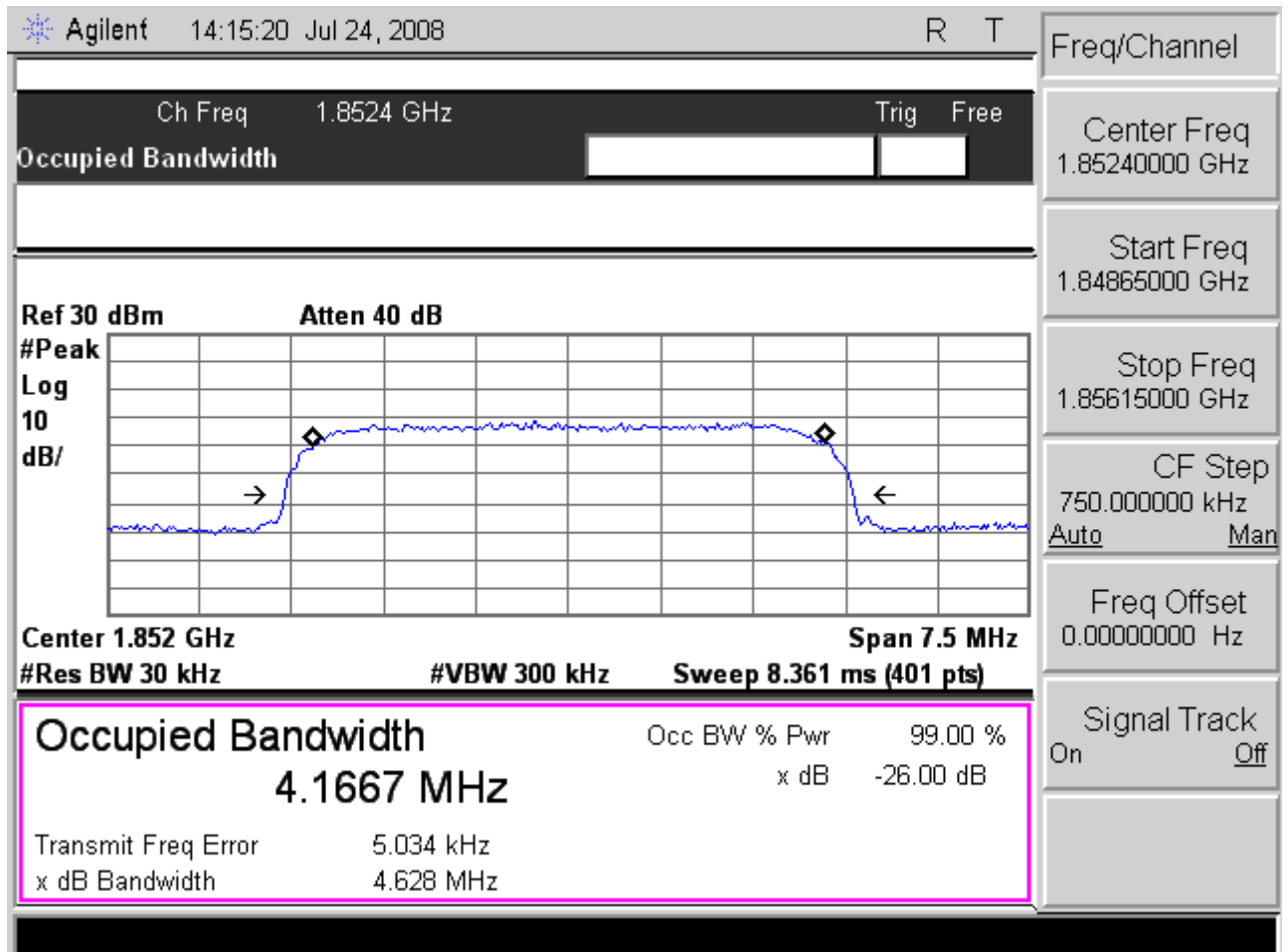


Test Mode: WCDMA Band V CH4233 99% Occupied Bandwidth



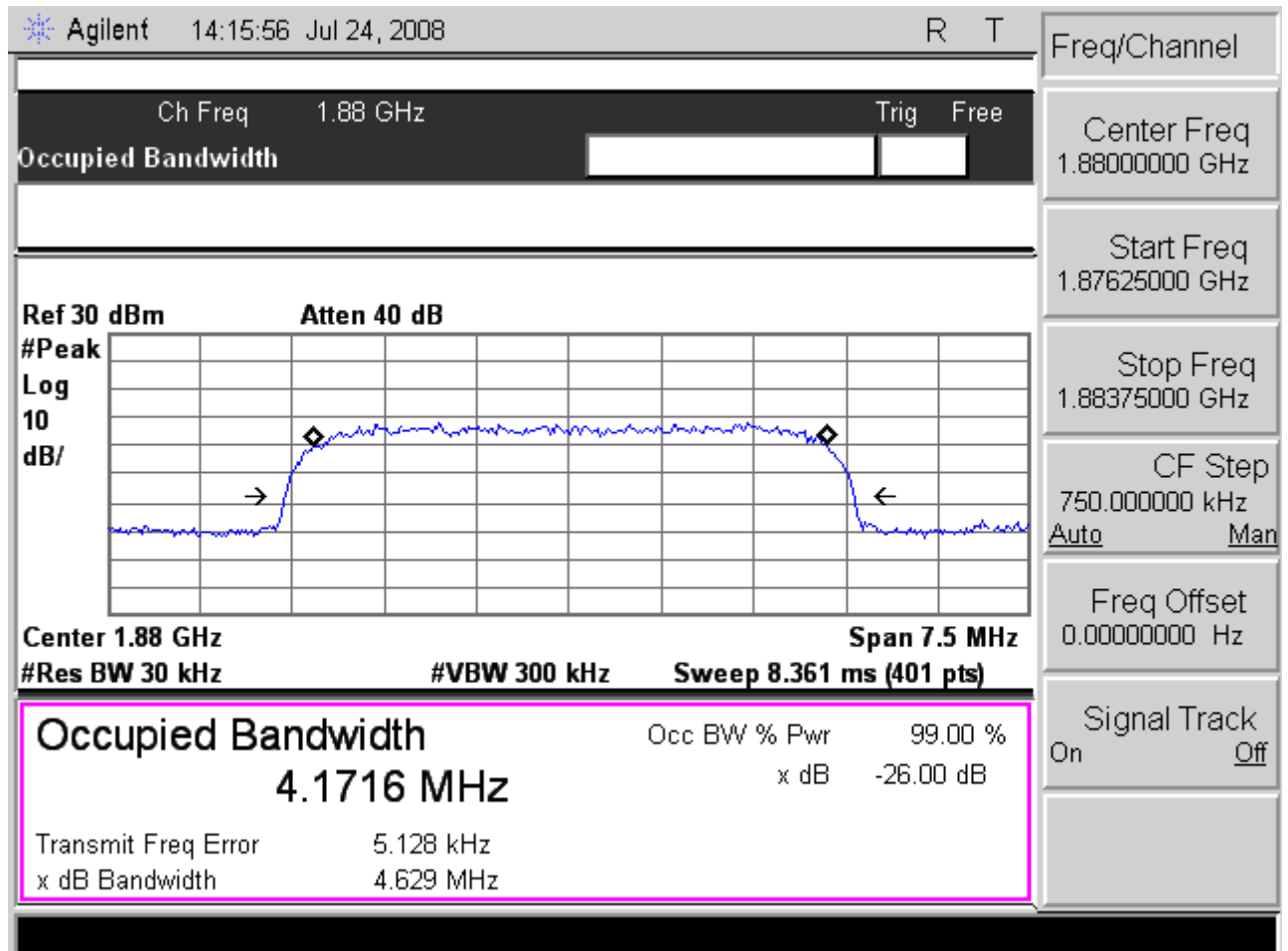


Test Mode: WCDMA Band II CH9262 99% Occupied Bandwidth



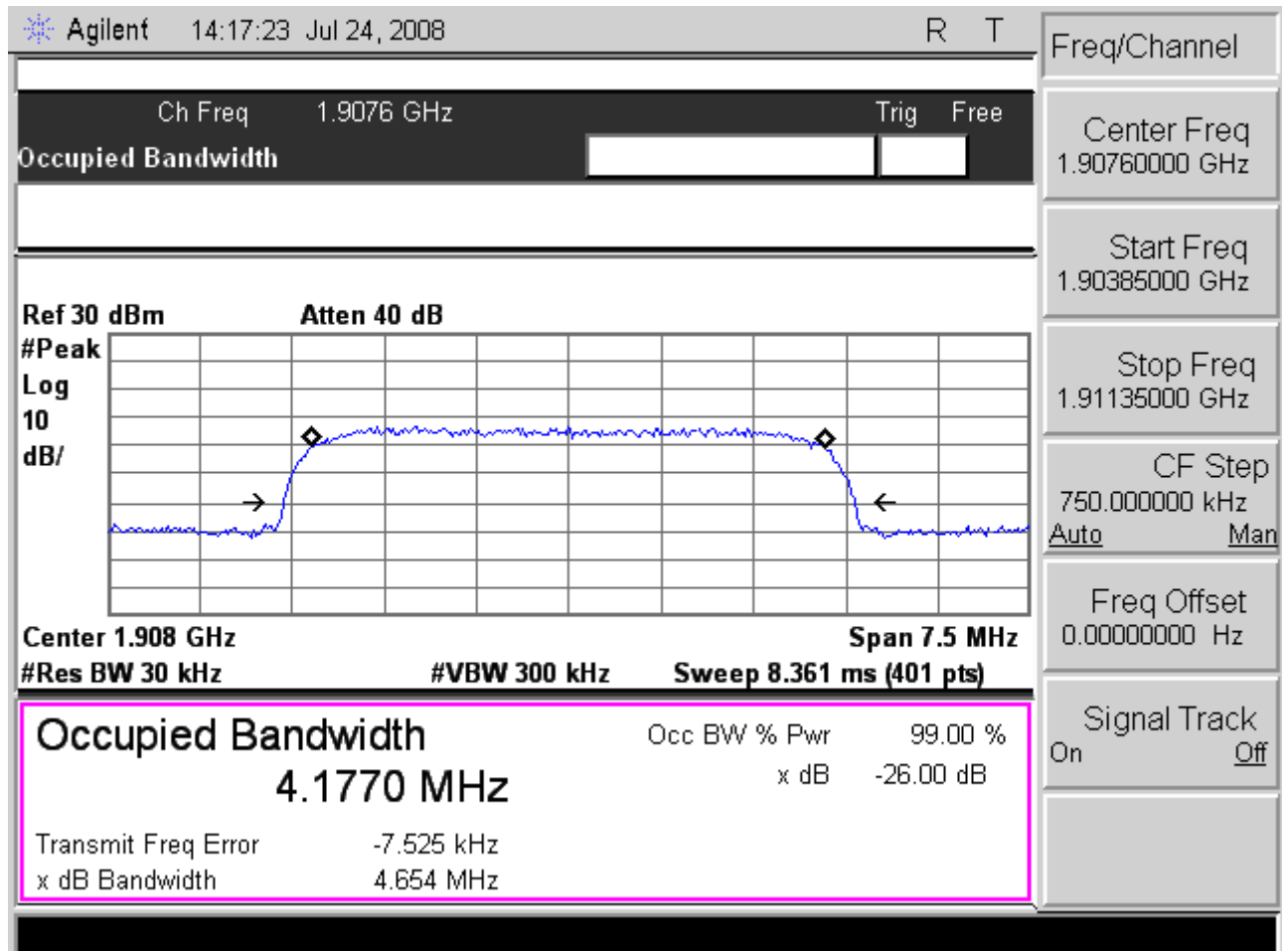


Test Mode: WCDMA Band II CH9400 99% Occupied Bandwidth





Test Mode: WCDMA Band II CH9538 99% Occupied Bandwidth





#### 4.4.5 Band Edge Test Result

| GSM 850 |         |                 |                 |             |
|---------|---------|-----------------|-----------------|-------------|
| Band    | Channel | Frequency (MHz) | Bandwidth (dBm) | Limit (dBm) |
| Lower   | 128     | 823.9974        | -15.46          | -13         |
| Higher  | 251     | 849.0225        | -16.02          | -13         |

Please refer to next pager of detail testing data.



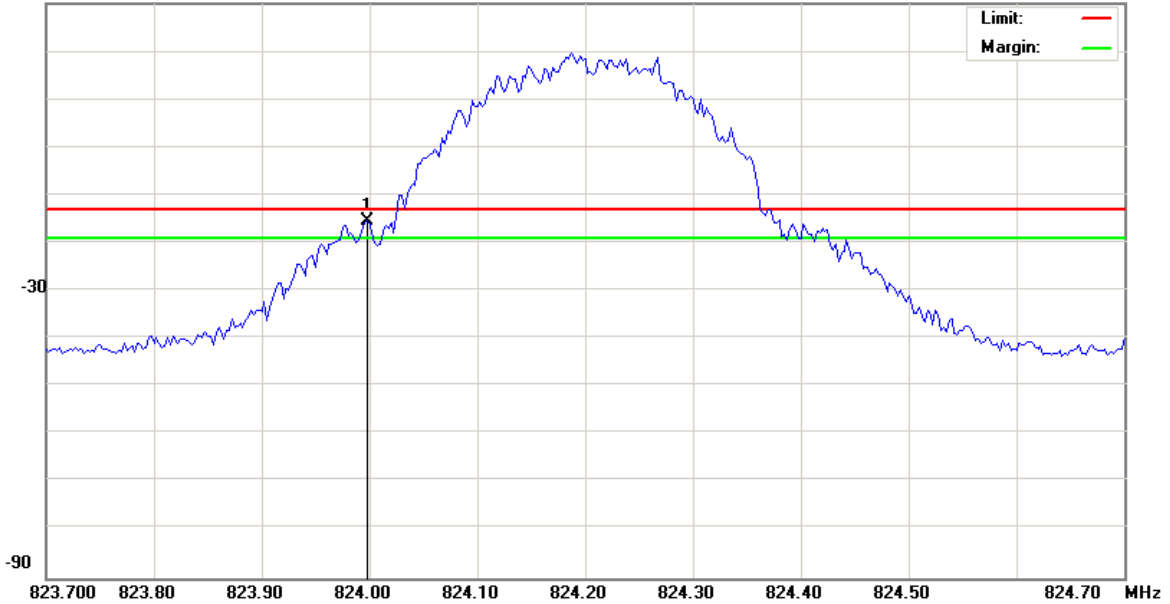
File :colorado 111(GSM850)

Data :#1

Date: 2008/8/20

Time:

30.0 dBm



Site

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode:

Note: CH128(824.2MHz)

加10db衰减器

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over  | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|-------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB    | cm             | degree       | Comment |
| 1   | *   | 823.9974 | -28.64        | 13.18          | -15.46       | -13.00 | -2.46 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



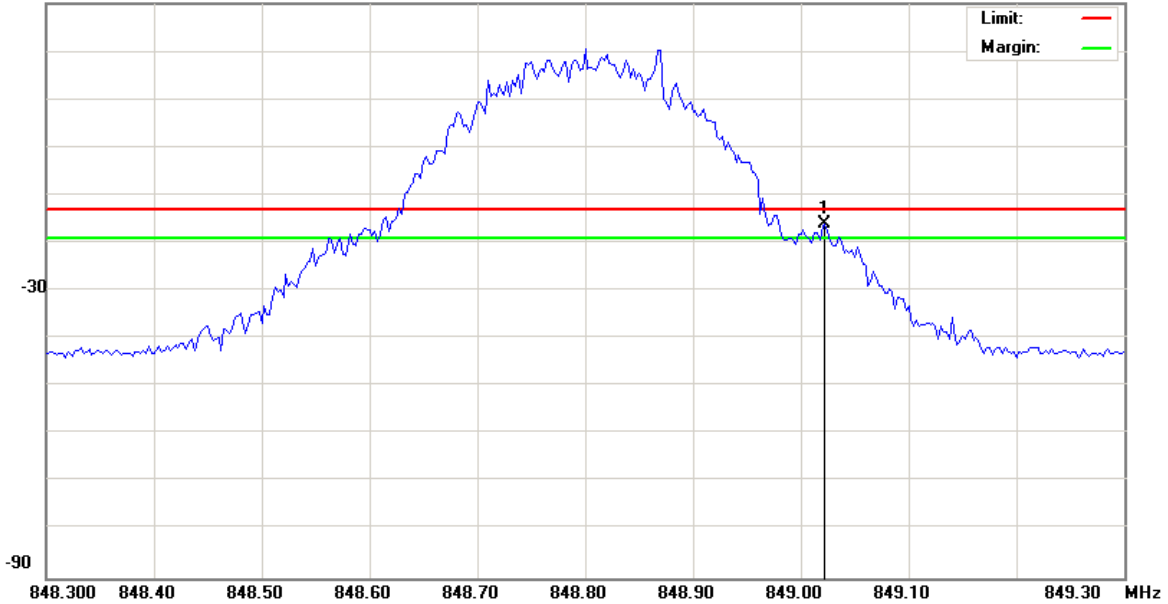
File :colorado 111(GSM850)

Data :#2

Date: 2008/8/20

Time:

30.0 dBm



Site

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode:

Note: CH251(848.8MHz)

加10db衰减器

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|------------|-------------------------|---------------------------|---------|
| 1   | *   | 849.0225     | -29.27                  | 13.25                   | -16.02                  | -13.00       | -3.02      | peak                    |                           |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



| PCS 1900 |         |                 |                 |             |
|----------|---------|-----------------|-----------------|-------------|
| Band     | Channel | Frequency (MHz) | Bandwidth (dBm) | Limit (dBm) |
| Lower    | 512     | 1849.980        | -16.99          | -13         |
| Higher   | 810     | 1910.020        | -17.40          | -13         |

Please refer to next pager of detail testing data.



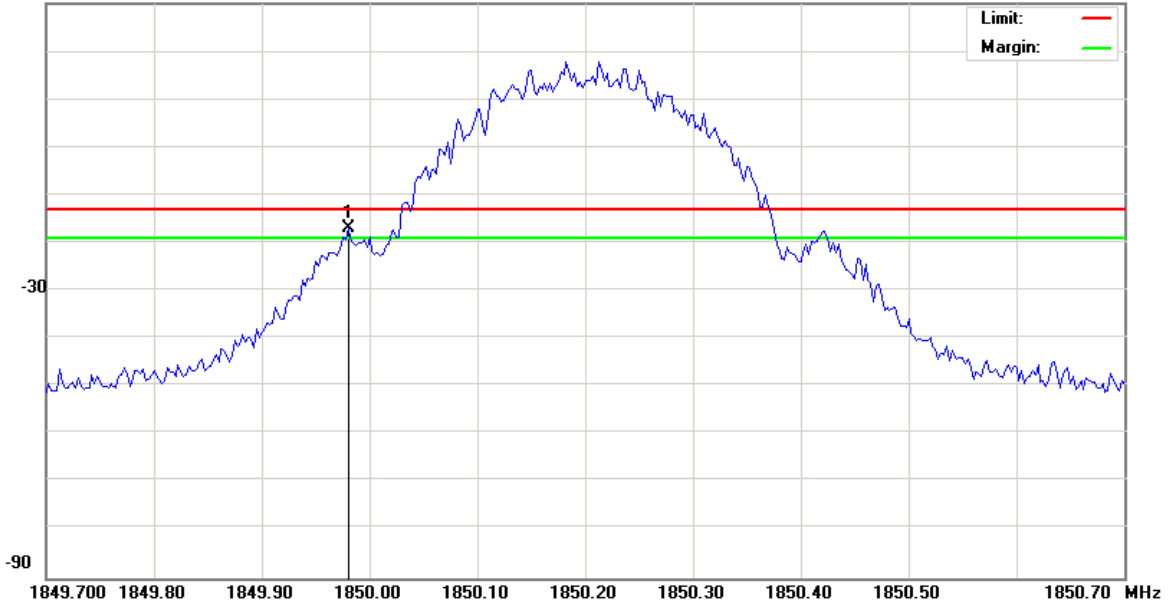
File :colorado 111(PCS1900)

Data :#1

Date: 2008/8/20

Time:

30.0 dBm



Site

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode:

Note: CH512(1784.8MHz)

加10db衰减器

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|------------|-------------------------|---------------------------|---------|
| 1   | *   | 1849.980     | -21.24                  | 4.25                    | -16.99                  | -13.00       | -3.99      | peak                    |                           |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



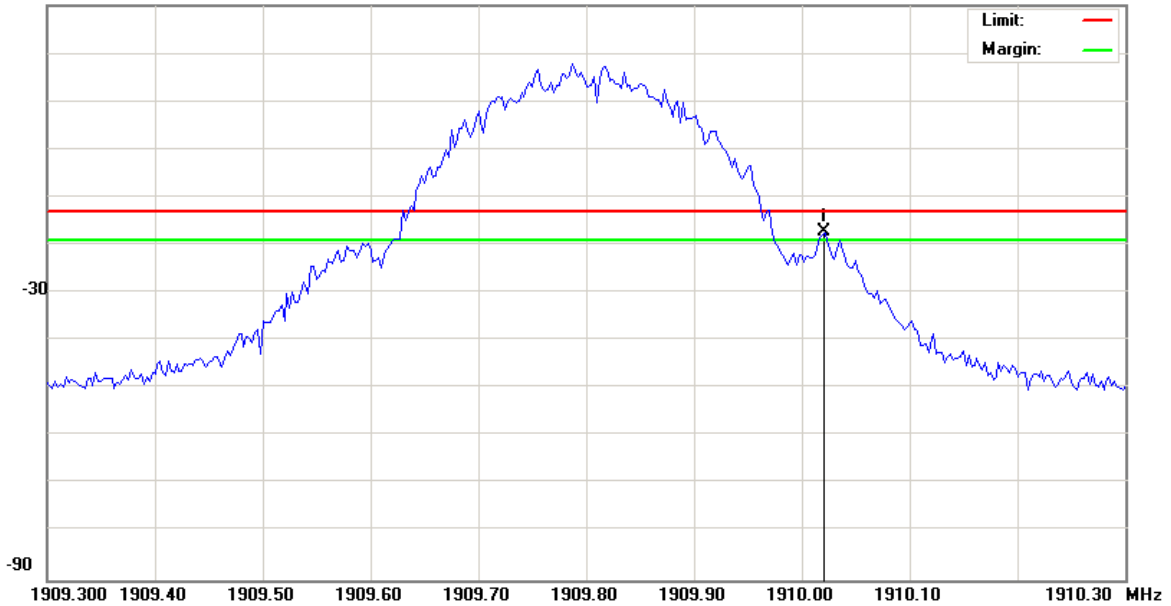
File :colorado 111(PCS1900)

Data :#2

Date: 2008/8/20

Time:

30.0 dBm



Site

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode:

Note: CH810(1909.8MHz)

加10db衰减器

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over  | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|-------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB    | cm             | degree       | Comment |
| 1   | *   | 1910.020 | -23.10        | 5.70           | -17.40       | -13.00 | -4.40 | peak           |              |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



| WCDMA Band V |         |                 |                 |             |
|--------------|---------|-----------------|-----------------|-------------|
| Band         | Channel | Frequency (MHz) | Bandwidth (dBm) | Limit (dBm) |
| Lower        | 4132    | 824.000         | -18.63          | -13         |
| Higher       | 4233    | 849.000         | -16.96          | -13         |

Please refer to next pager of detail testing data.



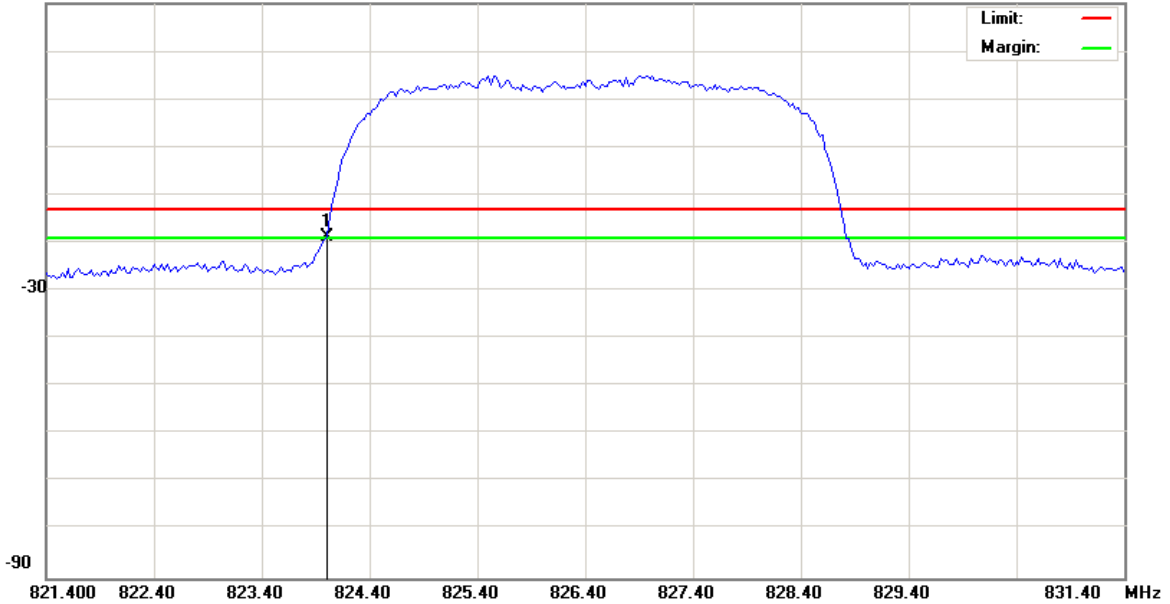
File :colorado 111(wcdma band5

Data :#1

Date: 2008/8/20

Time:

30.0 dBm



Site

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode:

Note: CH4132(824MHz)

加10db衰减器

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over  | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|-------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB    | cm             | degree       | Comment |
| 1   | *   | 824.0000 | -31.81        | 13.18          | -18.63       | -13.00 | -5.63 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



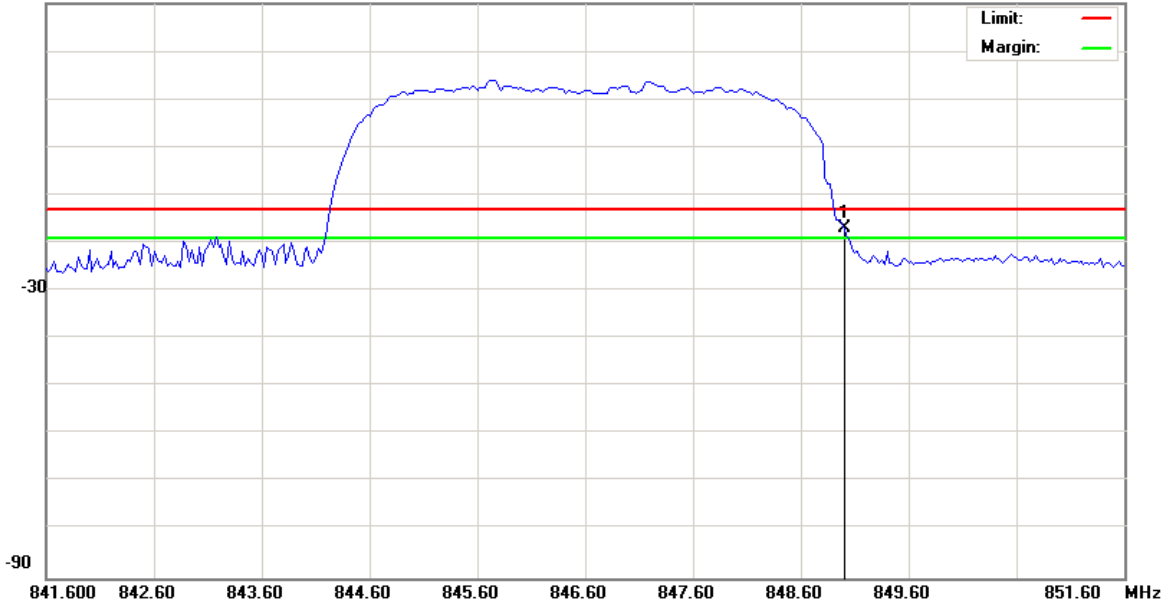
File :colorado 111(wcdma band5

Data :#2

Date: 2008/8/20

Time:

30.0 dBm



Site

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode:

Note: CH4233(849MHz)

加10db衰减器

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over  | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|-------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB    | cm             | degree       | Comment |
| 1   | *   | 849.0000 | -30.21        | 13.25          | -16.96       | -13.00 | -3.96 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



| WCDMA Band II |         |                 |                 |             |
|---------------|---------|-----------------|-----------------|-------------|
| Band          | Channel | Frequency (MHz) | Bandwidth (dBm) | Limit (dBm) |
| Lower         | 9262    | 1850.000        | -16.61          | -13         |
| Higher        | 9538    | 1910.000        | -15.64          | -13         |

Please refer to next pager of detail testing data.



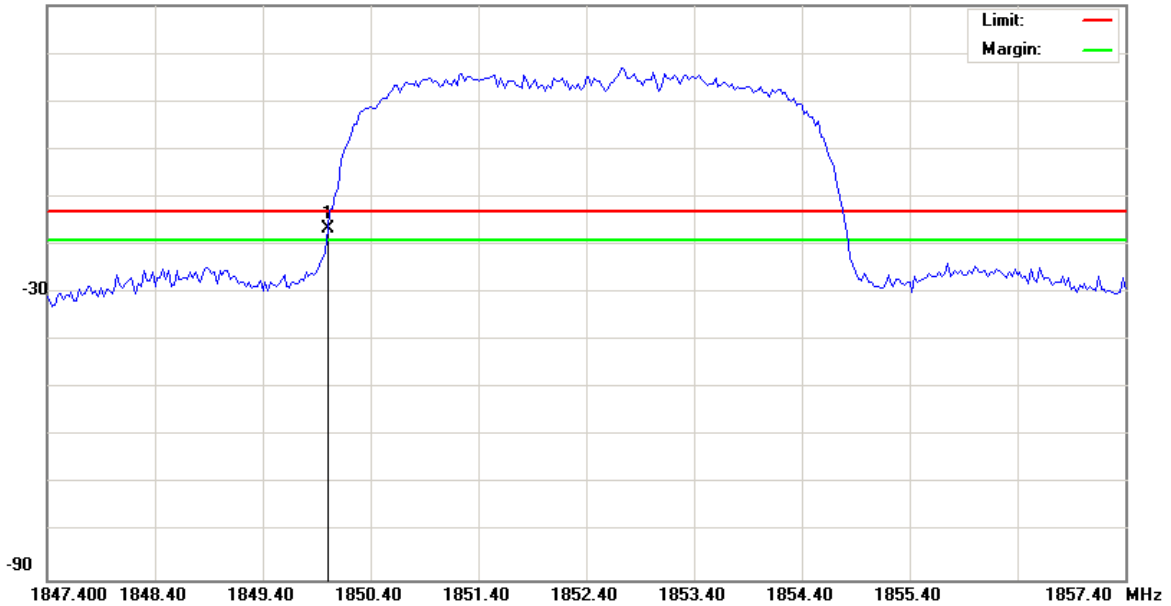
File :colorado 111(wcdma band2

Data :#1

Date: 2008/8/20

Time:

30.0 dBm



Site

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode:

Note:

加10db衰减器

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over  | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|-------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB    | cm             | degree       | Comment |
| 1   | *   | 1850.000 | -20.87        | 4.26           | -16.61       | -13.00 | -3.61 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



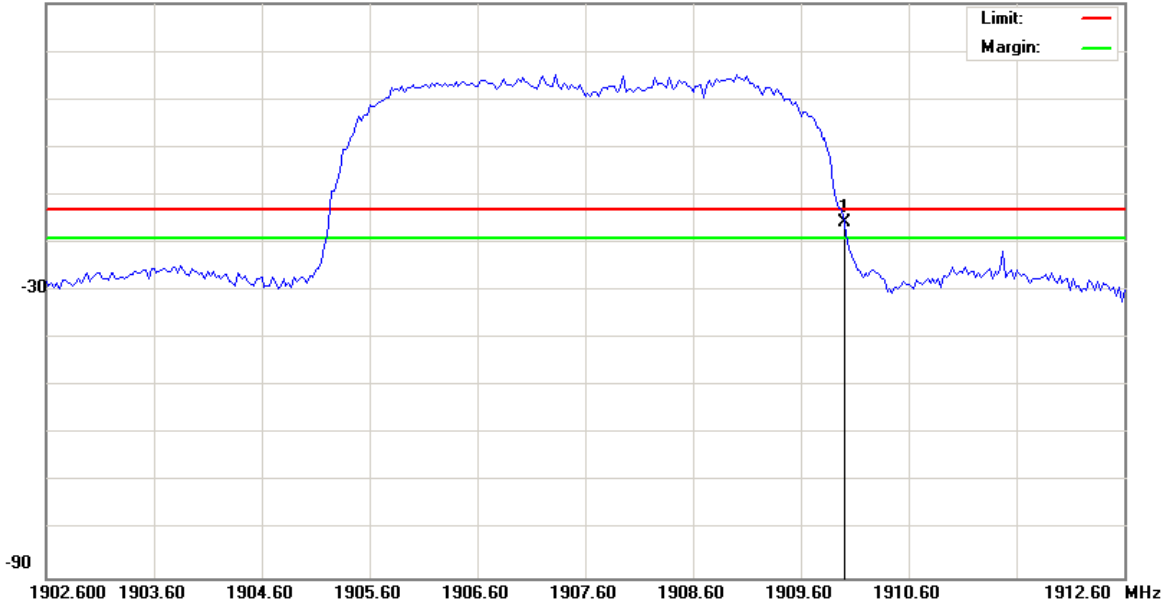
File :colorado 111(wcdma band2

Data :#2

Date: 2008/8/20

Time:

30.0 dBm



Site

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode:

Note:

加10db衰减器

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over  | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|-------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB    | cm             | degree       | Comment |
| 1   | *   | 1910.000 | -21.34        | 5.70           | -15.64       | -13.00 | -2.64 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only

## 4.5 Conducted Emission

### 4.5.1 Measurement Instruments

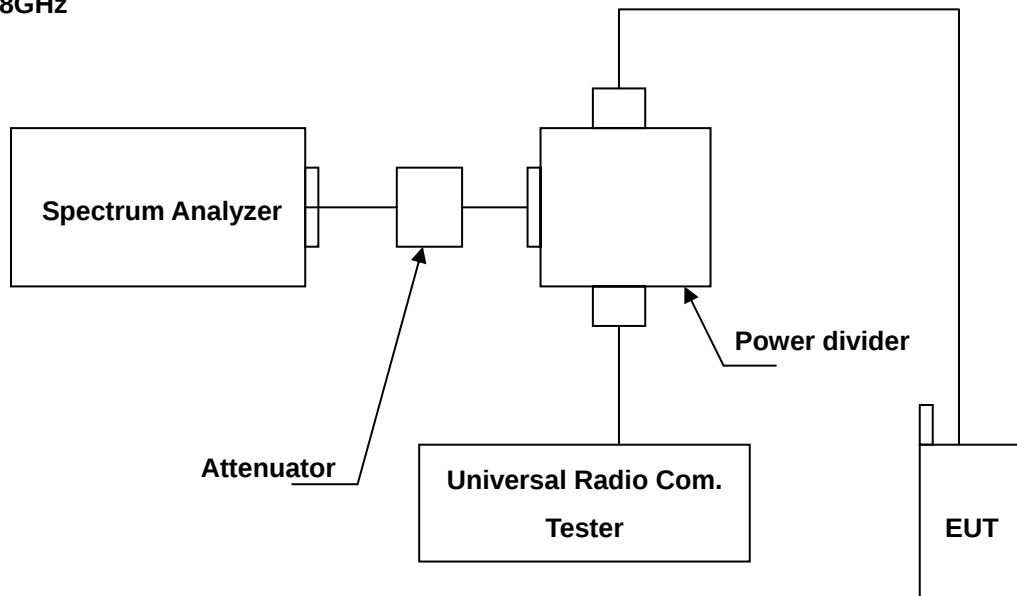
As described in chapter 5 of this test report.

### 4.5.2 Test Procedure

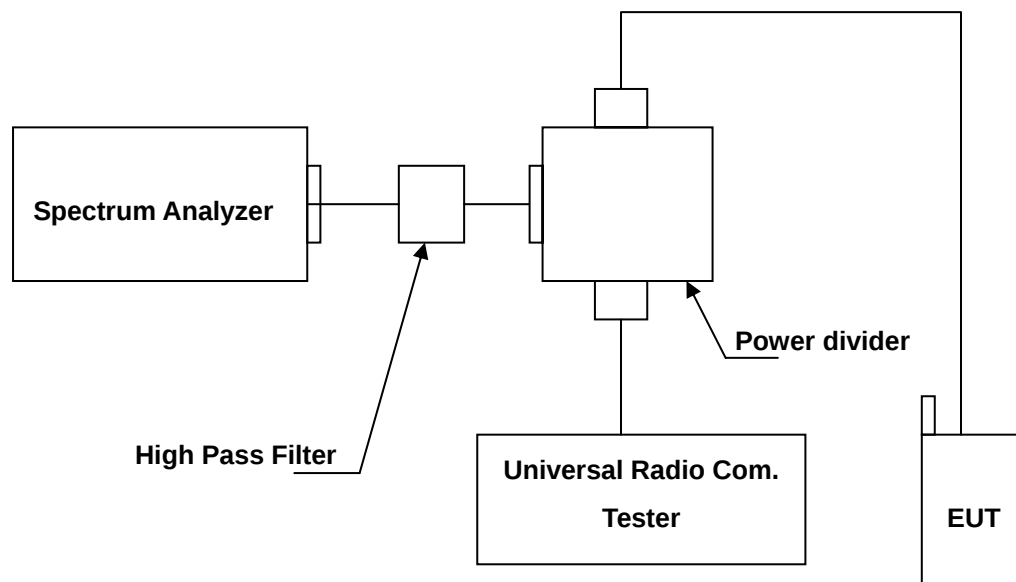
1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
2. The middle channel for the highest RF power within the transmitting frequency was measured.
3. The conducted spurious emission for the whole frequency range was taken.
4. Test setting at GSM 850 RB>100 kHz, VB>100 kHz; PCS 1900 RB>1MHz, VB>1MHz.

### 4.5.3 Test Setup Layout

Below 2.8GHz



Above 2.8GHz





#### 4.5.4 Test Result

##### 4.5.4.1 GSM 850 Test Result

Applicant : Inventec Corporation  
Model No : velocity 111  
EUT : PDA PHONE  
Test Mode : GSM 850 (Low CH128 / Middle CH190 / High CH 251)  
Test Date : 07/23/2008

Please refer to next pager of detail testing data.

Note: Amplitude= Reading Amplitude + Factor (Cable loss + Filter Amplitude= Insertion loss)  
(Auto calculate in spectrum analyzer)



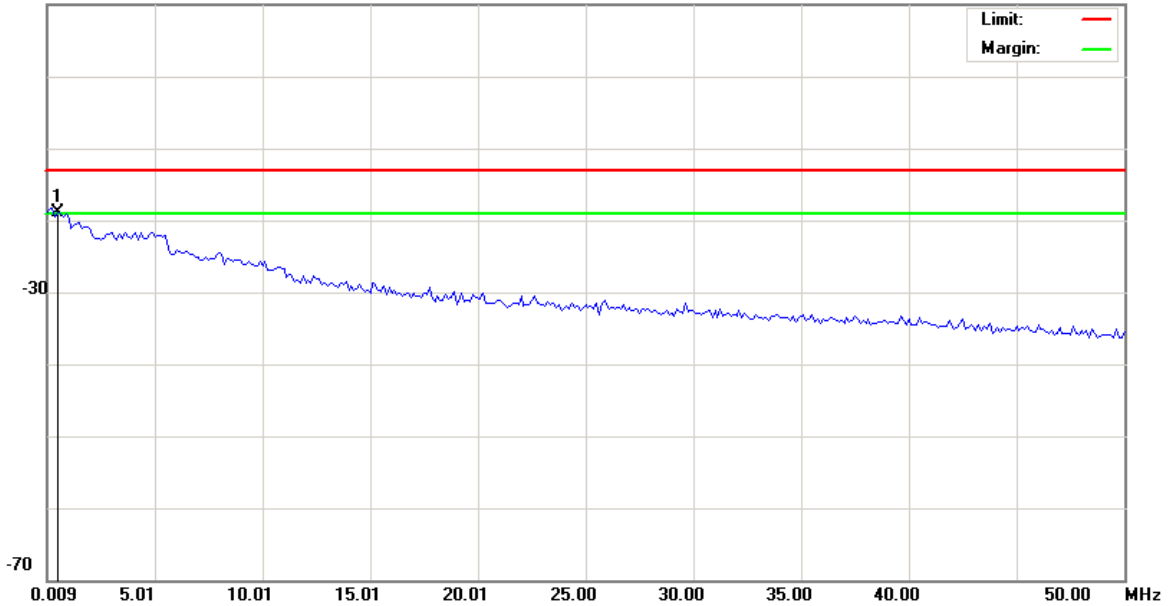
File :colorado111(CH128)

Data :#1

Date: 2008/7/23

Time: 下午 02:58:16

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: GSM850

Note: CH128

加Notch(3TNF-800)

| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measure-ment | Limit  | Over  | Antenna Height | Table Degree |         |
|-----|-----|--------|---------------|----------------|--------------|--------|-------|----------------|--------------|---------|
|     |     | MHz    | dBm           | dB             | dBm          | dBm    | dB    | cm             | degree       | Comment |
| 1   | *   | 0.5089 | -50.85        | 32.02          | -18.83       | -13.00 | -5.83 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



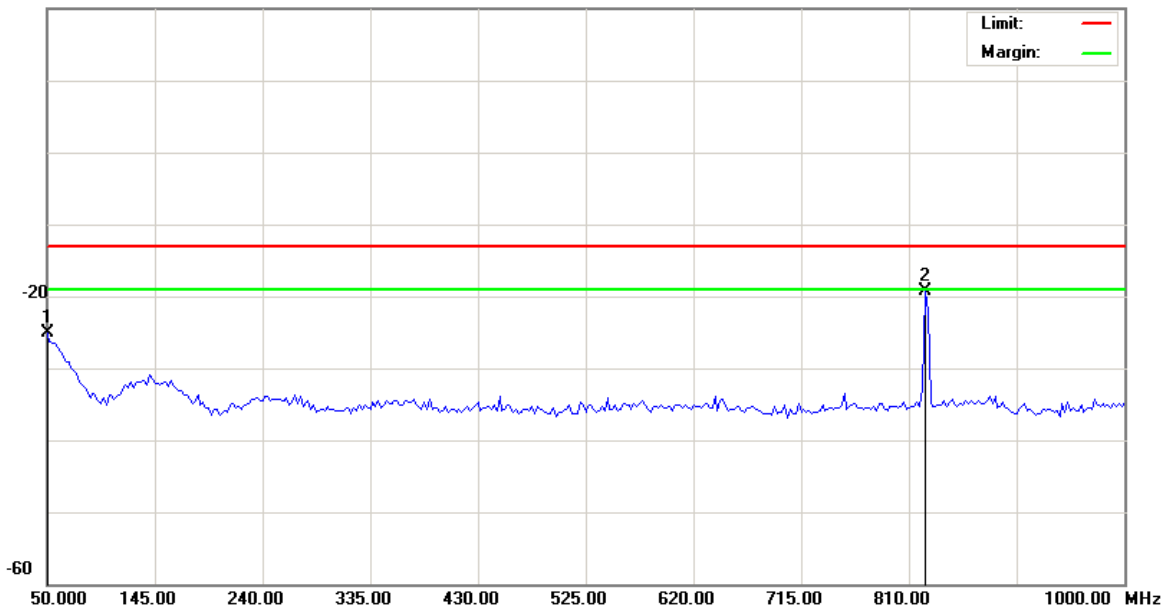
File :colorado111(CH128)

Data :#2

Date: 2008/7/23

Time: 下午 02:58:37

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: GSM850

Note: CH128

加Notch(3TNF-800)

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |                |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|----------------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment        |
| 1   |     | 50.0000  | -39.81        | 14.69          | -25.12       | -13.00 | -12.12 | peak           |              |                |
| 2   | *   | 824.2500 | -23.17        | 3.84           | -19.33       | -13.00 | -6.33  | peak           |              | Main Frequency |

\*:Maximum data x:Over limit !:over margin

●Reference Only



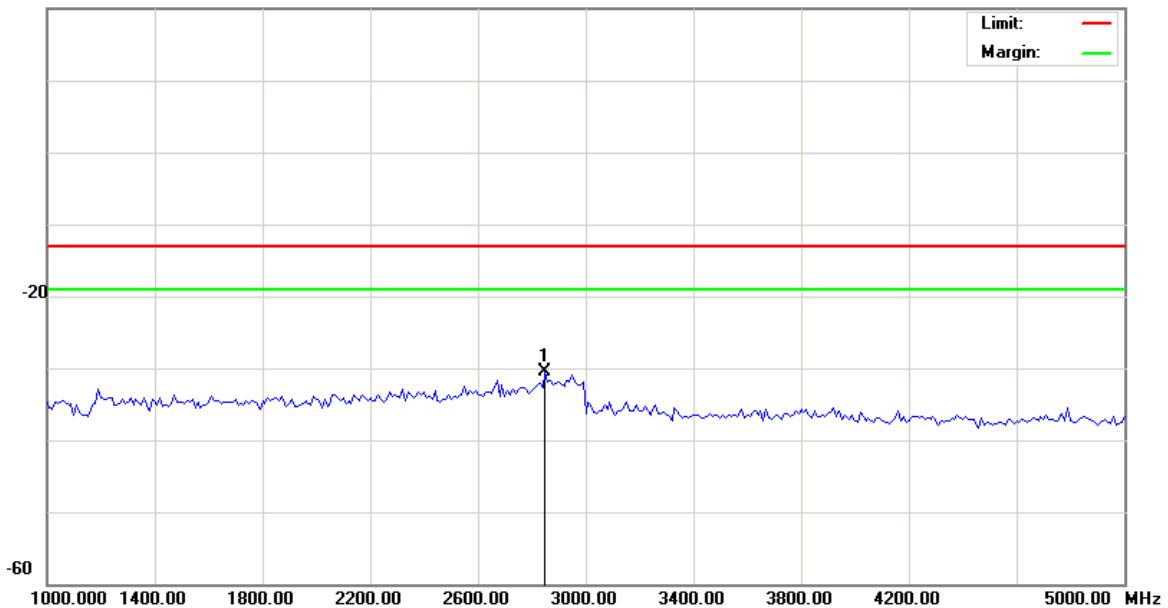
File :colorado111(CH128)

Data :#3

Date: 2008/7/23

Time: 下午 05:30:34

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: GSM850

Note: CH128

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 2850.000 | -35.01        | 4.50           | -30.51       | -13.00 | -17.51 | peak           |              |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



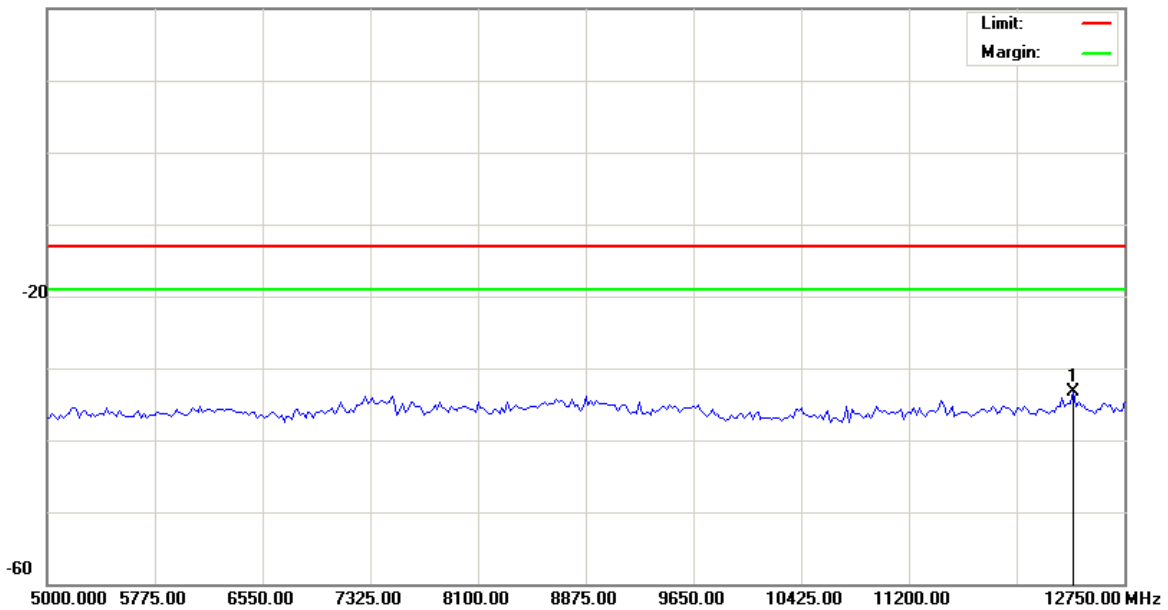
File :colorado111(CH128)

Data :#4

Date: 2008/7/23

Time: 下午 05:30:55

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: GSM850

Note: CH128

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 12381.87 | -37.92        | 4.65           | -33.27       | -13.00 | -20.27 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



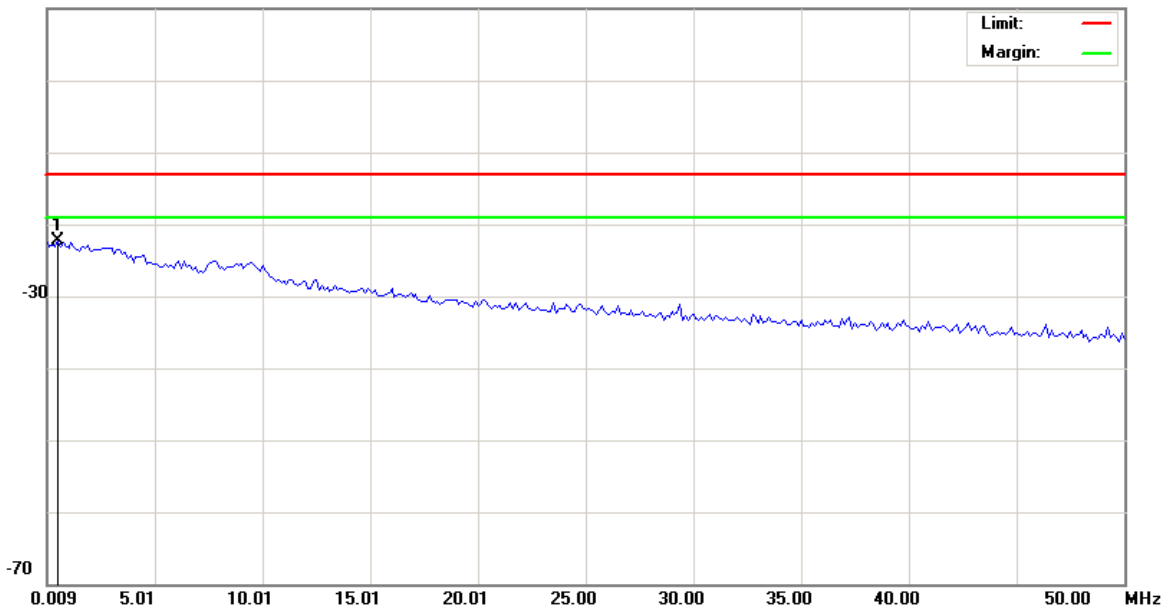
File :colorado111(CH190)

Data :#1

Date: 2008/7/23

Time: 下午 03:09:25

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: GSM850

Note: CH190

加Notch(3TNF-800)

| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measure-ment | Limit  | Over  | Antenna Height | Table Degree |         |
|-----|-----|--------|---------------|----------------|--------------|--------|-------|----------------|--------------|---------|
|     |     | MHz    | dBm           | dB             | dBm          | dBm    | dB    | cm             | degree       | Comment |
| 1   | *   | 0.5089 | -54.36        | 32.02          | -22.34       | -13.00 | -9.34 | peak           |              |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



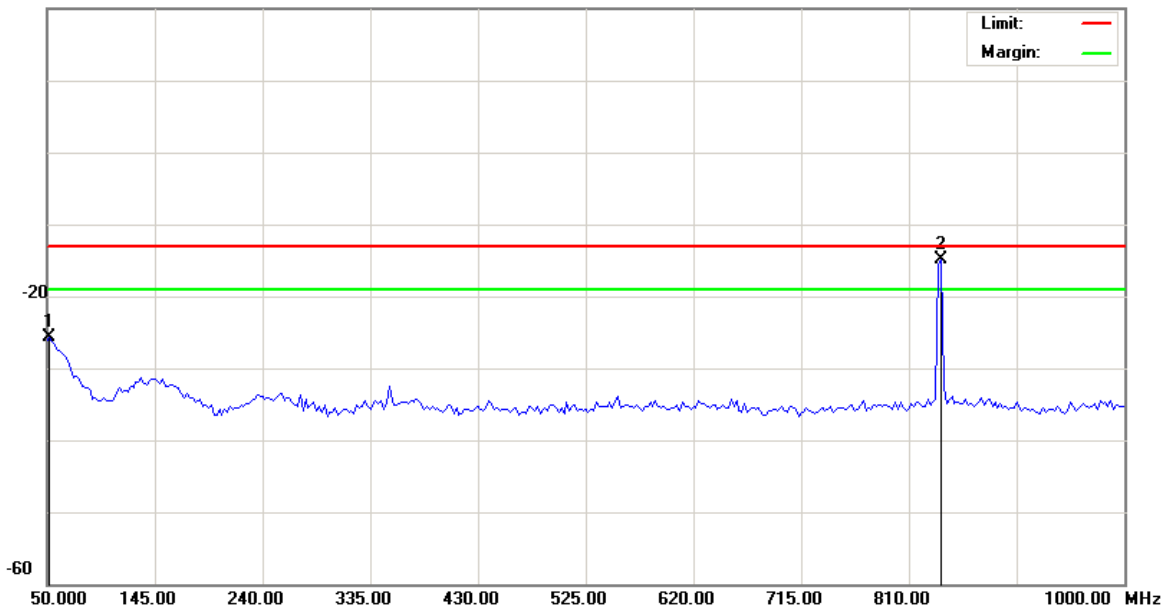
File :colorado111(CH190)

Data :#2

Date: 2008/7/23

Time: 下午 03:09:47

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: GSM850

Note: CH190

加Notch(3TNF-800)

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |                |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|----------------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment        |
| 1   |     | 52.3750  | -40.06        | 14.27          | -25.79       | -13.00 | -12.79 | peak           |              |                |
| 2   | *   | 838.5000 | -18.85        | 3.97           | -14.88       | -13.00 | -1.88  | peak           |              | Main Frequency |

\*:Maximum data x:Over limit !:over margin

●Reference Only



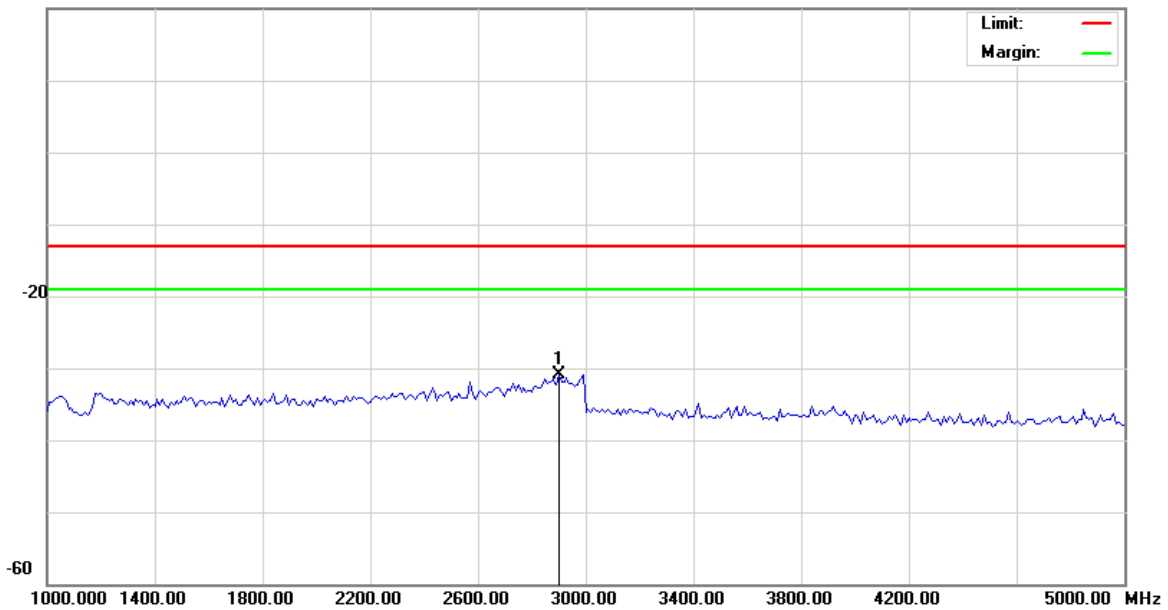
File :colorado111(CH190)

Data :#3

Date: 2008/7/23

Time: 下午 05:33:06

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: GSM850

Note: CH190

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 2900.000 | -35.57        | 4.76           | -30.81       | -13.00 | -17.81 | peak           |              |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



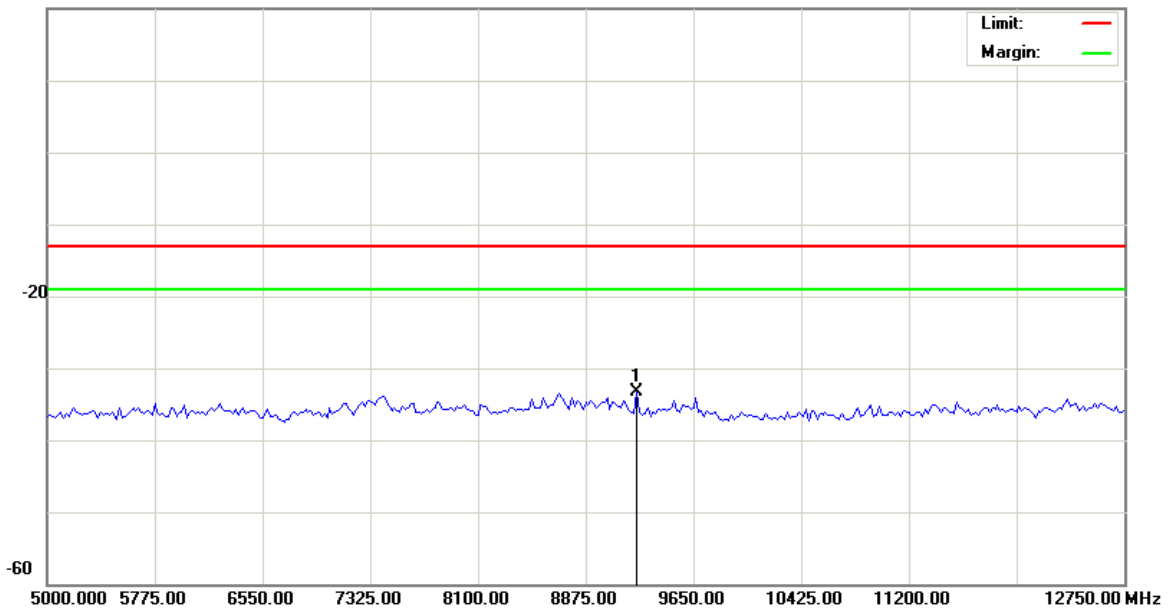
File :colorado111(CH190)

Data :#4

Date: 2008/7/23

Time: 下午 05:33:28

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: GSM850

Note: CH190

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 9243.125 | -38.76        | 5.47           | -33.29       | -13.00 | -20.29 | peak           |              |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



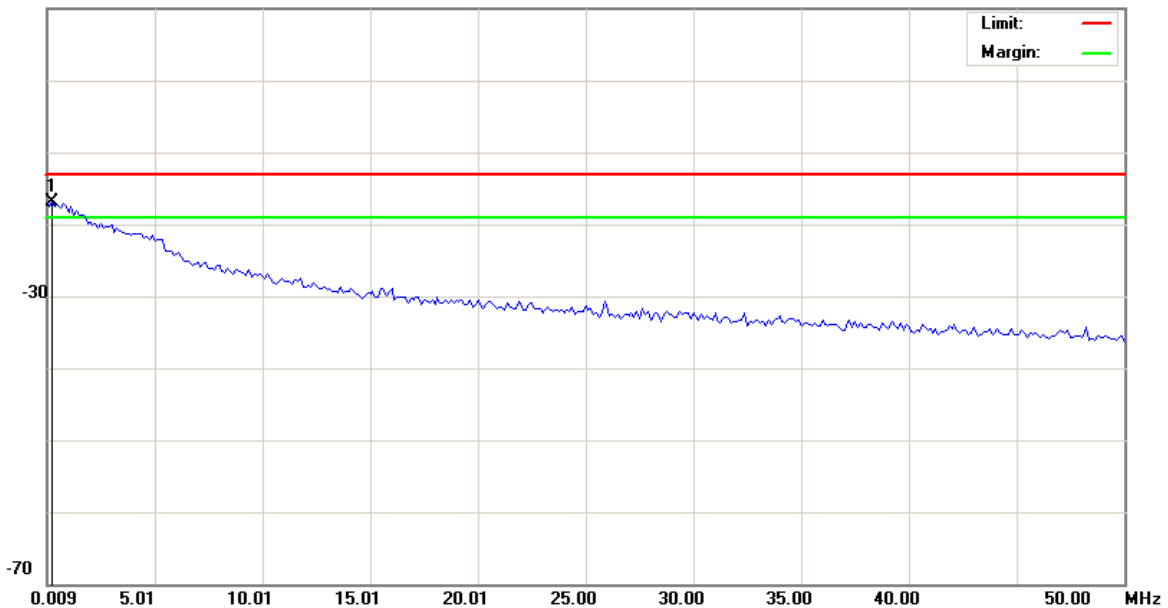
File :colorado111(CH251)

Data :#1

Date: 2008/7/23

Time: 下午 03:21:16

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: GSM850

Note: CH251

加Notch(3TNF-800)

| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measure-ment | Limit  | Over  | Antenna Height | Table Degree |         |
|-----|-----|--------|---------------|----------------|--------------|--------|-------|----------------|--------------|---------|
|     |     | MHz    | dBm           | dB             | dBm          | dBm    | dB    | cm             | degree       | Comment |
| 1   | *   | 0.2590 | -48.31        | 31.40          | -16.91       | -13.00 | -3.91 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



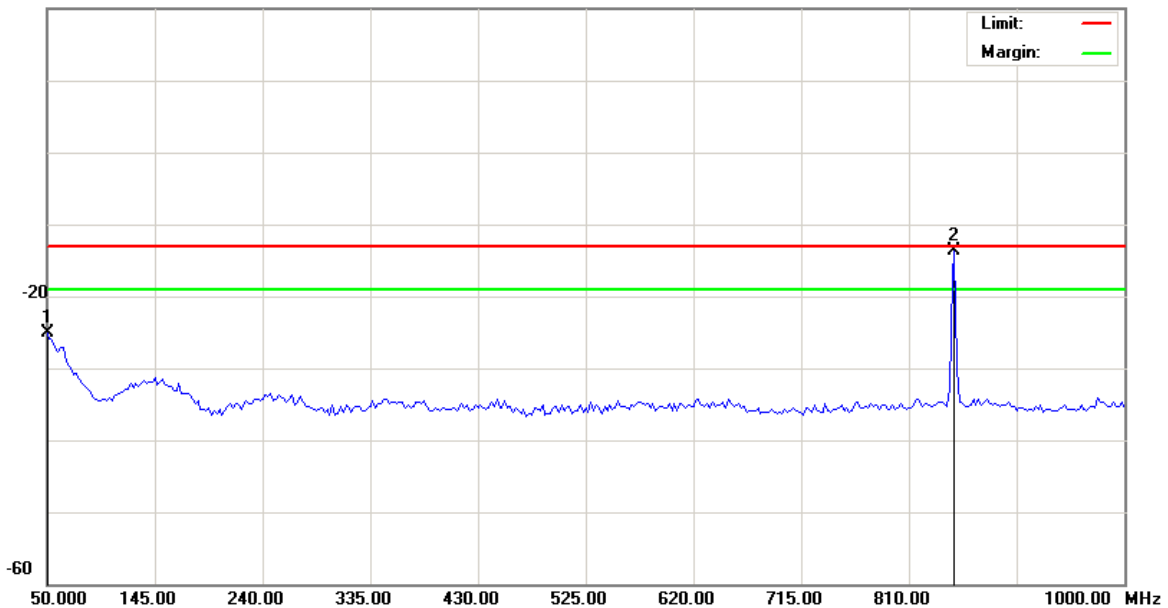
File :colorado111(CH251)

Data :#2

Date: 2008/7/23

Time: 下午 03:21:38

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: GSM850

Note: CH251

加Notch(3TNF-800)

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |                |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|----------------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment        |
| 1   |     | 50.0000  | -39.87        | 14.69          | -25.18       | -13.00 | -12.18 | peak           |              |                |
| 2   | *   | 850.3750 | -17.58        | 3.98           | -13.60       | -13.00 | -0.60  | peak           |              | Main Frequency |

\*:Maximum data x:Over limit !:over margin

●Reference Only



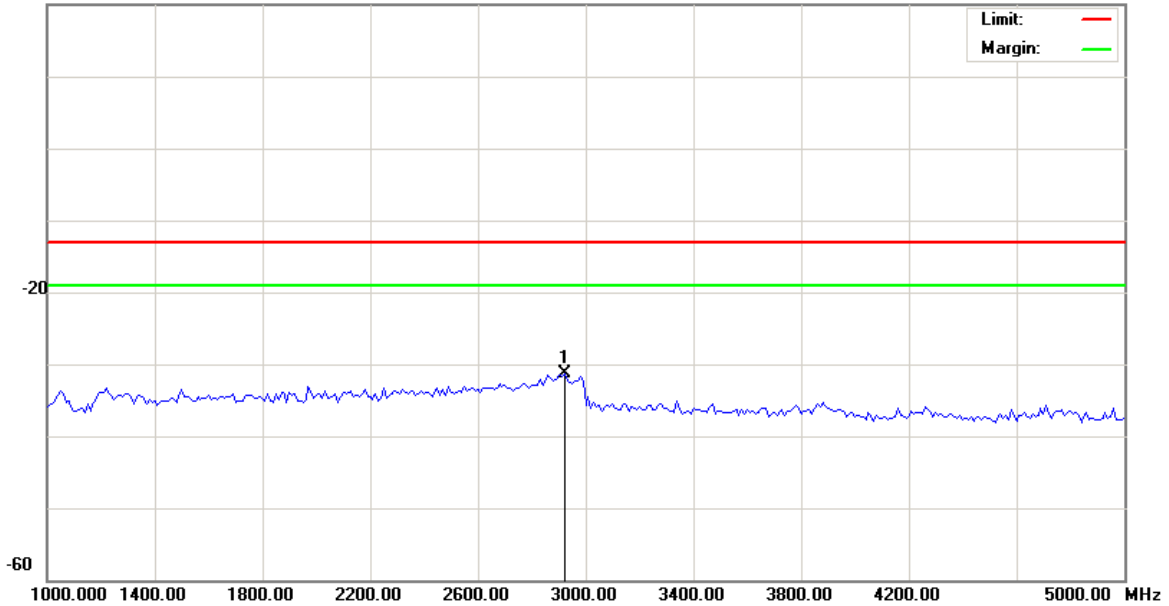
File :colorado111(CH251)

Data :#3

Date: 2008/7/23

Time: 下午 05:35:02

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: GSM850

Note: CH251

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 2920.000 | -36.03        | 4.69           | -31.34      | -13.00 | -18.34 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



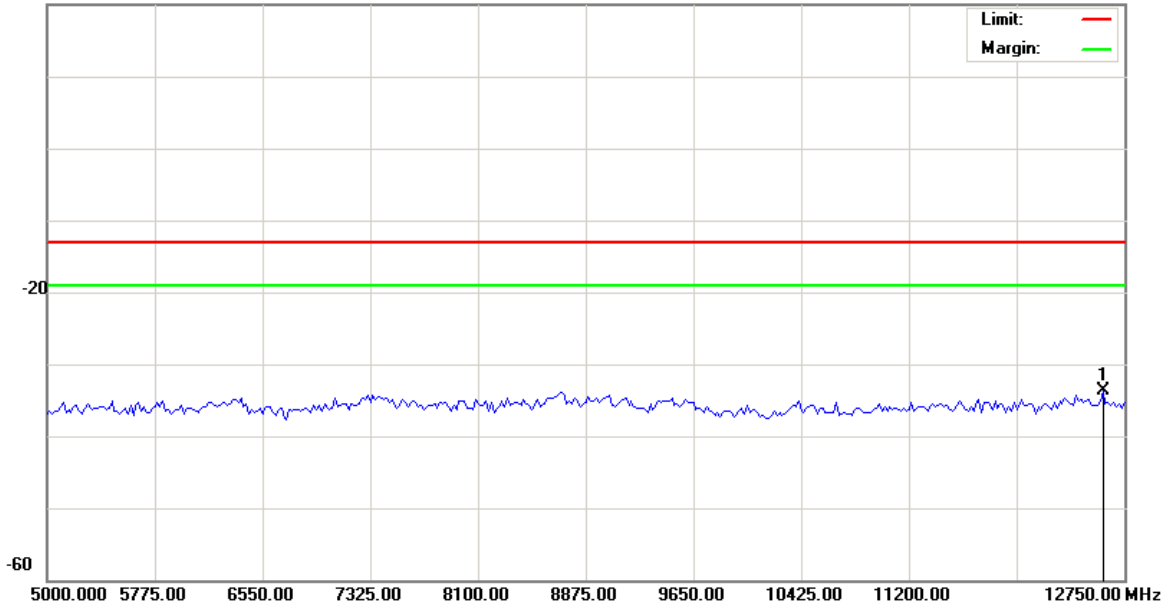
File :colorado111(CH251)

Data :#4

Date: 2008/7/23

Time: 下午 05:35:24

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: GSM850

Note: CH251

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 12595.00 | -38.47        | 4.75           | -33.72       | -13.00 | -20.72 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



#### 4.5.4.2 PCS 1900 Test Result

Applicant : Inventec Corporation  
Model No : velocity 111  
EUT : PDA PHONE  
Test Mode : PCS 1900 (Low CH512 / Middle CH661 / High CH 810)  
Test Date : 07/23/2008

Please refer to next pager of detail testing data.

Note: Amplitude= Reading Amplitude + Factor (Cable loss + Filter Amplitude= Insertion loss)  
(Auto calculate in spectrum analyzer)



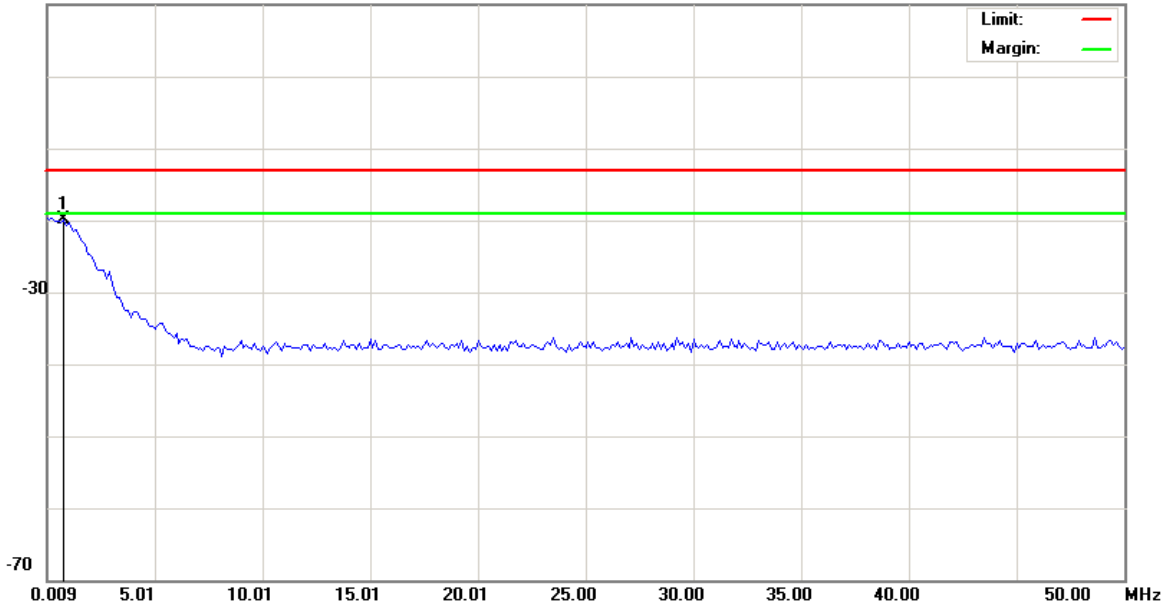
File :colorado111(CH512)

Data :#1

Date: 2008/7/23

Time: 下午 02:21:25

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: PCS1900

Note: CH512

加10db衰减器

| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measure-ment | Limit  | Over  | Antenna Height | Table Degree |         |
|-----|-----|--------|---------------|----------------|--------------|--------|-------|----------------|--------------|---------|
|     |     | MHz    | dBm           | dB             | dBm          | dBm    | dB    | cm             | degree       | Comment |
| 1   | *   | 0.7589 | -32.46        | 12.53          | -19.93       | -13.00 | -6.93 | peak           |              |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



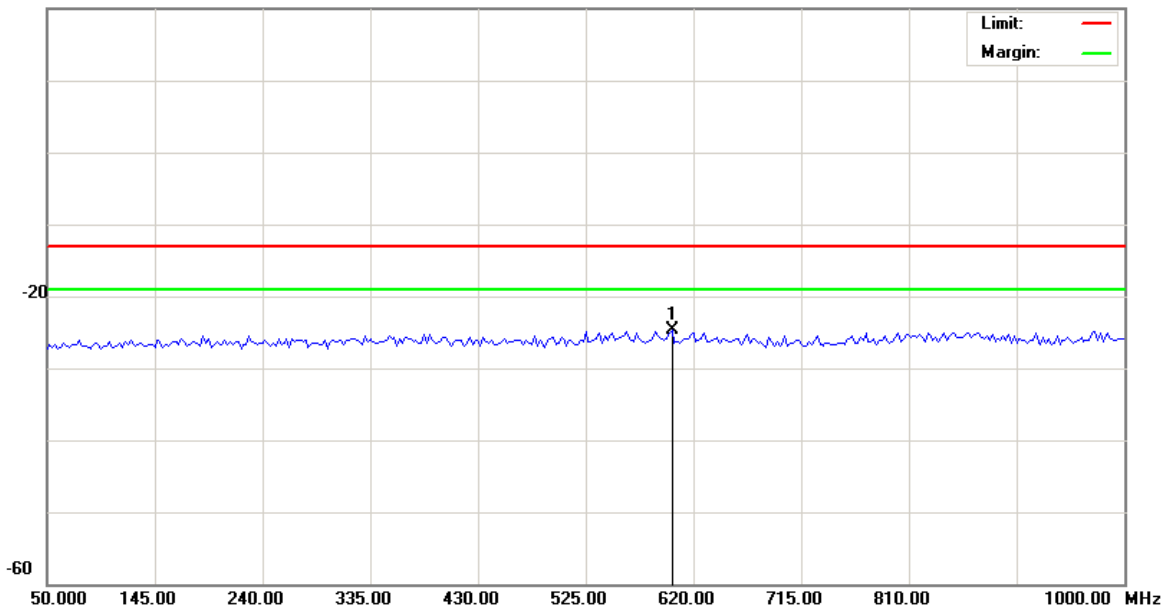
File :colorado111(CH512)

Data :#2

Date: 2008/7/23

Time: 下午 02:21:46

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: PCS1900

Note: CH512

加10db衰减器

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 601.0000 | -37.93        | 13.19          | -24.74       | -13.00 | -11.74 | peak           |              |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



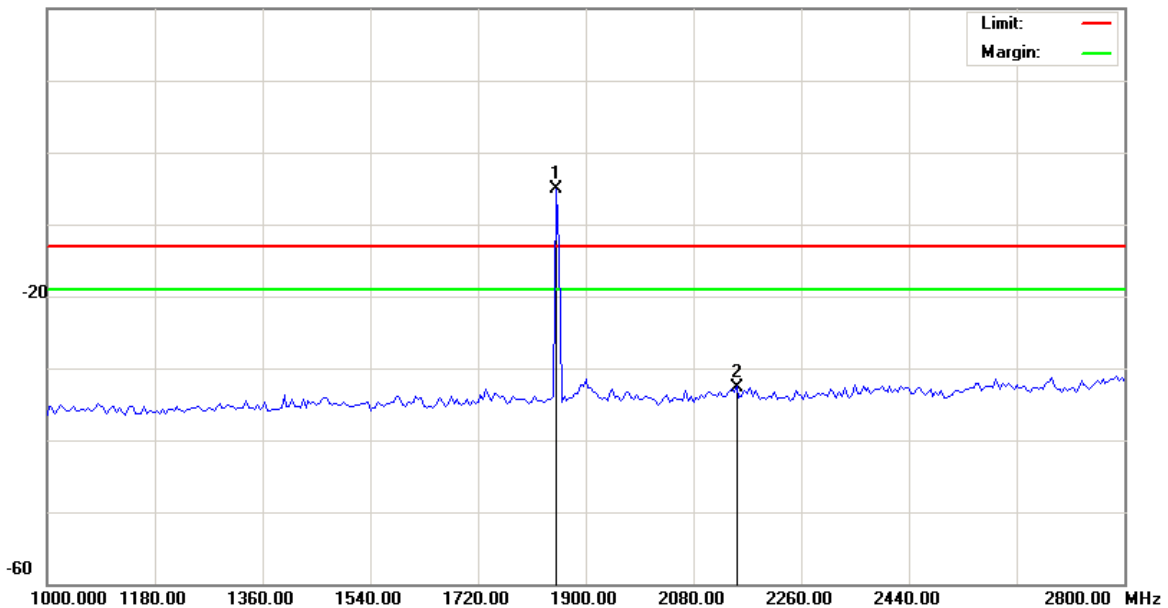
File :colorado111(CH512)

Data :#3

Date: 2008/7/23

Time: 下午 04:02:50

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: PCS1900

Note: CH512

加Notch(5TNF-1700)

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment        |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|------------|-------------------------|---------------------------|----------------|
| 1   | *   | 1850.500     | -9.32                   | 4.26                    | -5.06                   | -13.00       | 7.94       | peak                    |                           | Main Frequency |
| 2   |     | 2152.000     | -37.20                  | 4.60                    | -32.60                  | -13.00       | -19.60     | peak                    |                           |                |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



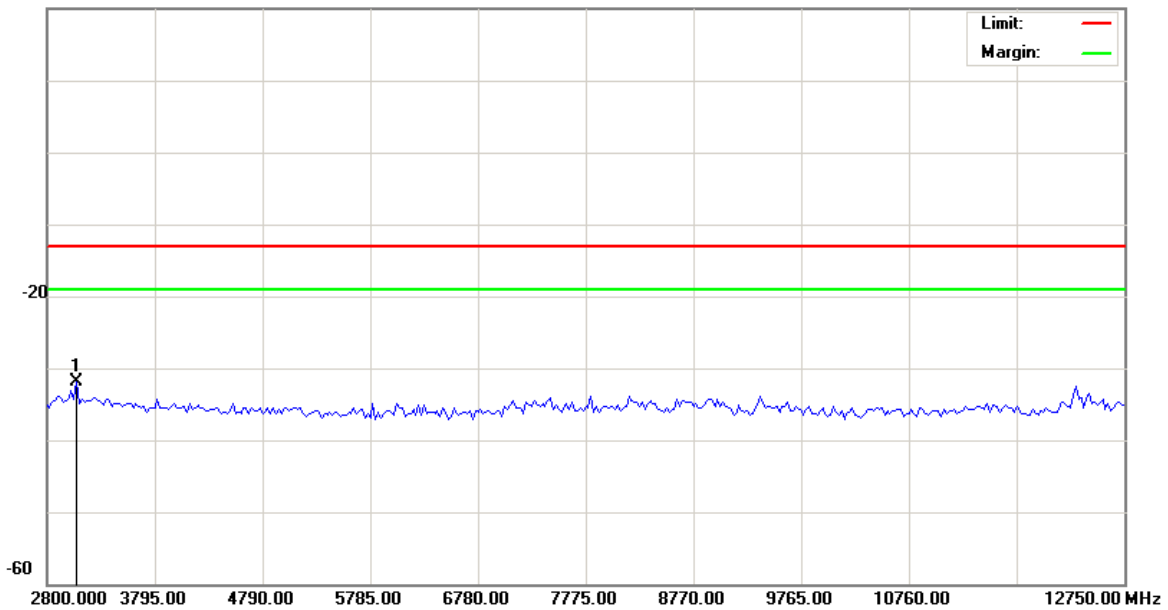
File :colorado111(CH512)

Data :#4

Date: 2008/7/23

Time: 下午 05:46:42

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: PCS1900

Note: CH512

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 3073.625 | -37.32        | 5.40           | -31.92       | -13.00 | -18.92 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



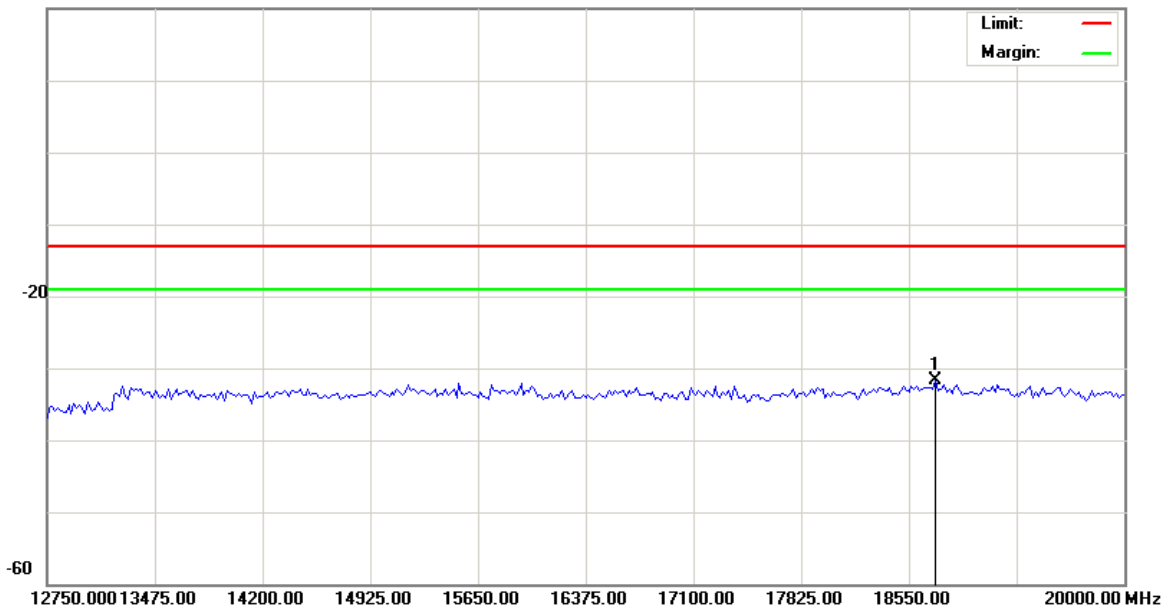
File :colorado111(CH512)

Data :#5

Date: 2008/7/23

Time: 下午 05:47:03

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: PCS1900

Note: CH512

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|------------|-------------------------|---------------------------|---------|
| 1   | *   | 18731.25     | -38.81                  | 7.08                    | -31.73                  | -13.00       | -18.73     | peak                    |                           |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



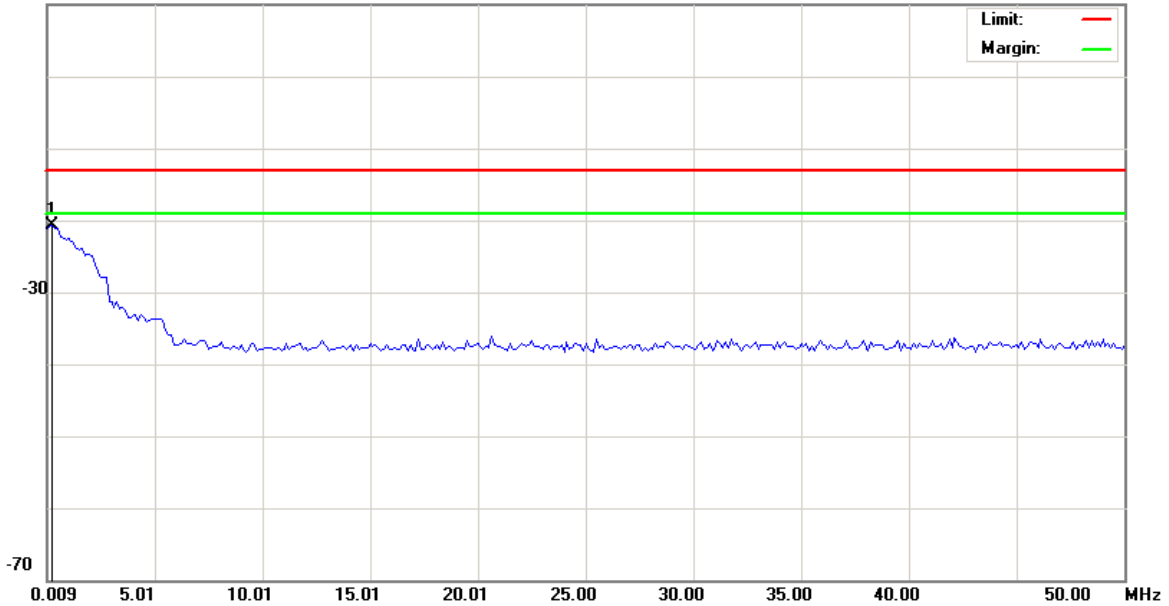
File :colorado111(CH661)

Data :#1

Date: 2008/7/23

Time: 下午 02:27:21

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: PCS1900

Note: CH661

加10db衰减器

| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measure-ment | Limit  | Over  | Antenna Height | Table Degree |         |
|-----|-----|--------|---------------|----------------|--------------|--------|-------|----------------|--------------|---------|
|     |     | MHz    | dBm           | dB             | dBm          | dBm    | dB    | cm             | degree       | Comment |
| 1   | *   | 0.2590 | -33.30        | 12.54          | -20.76       | -13.00 | -7.76 | peak           |              |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



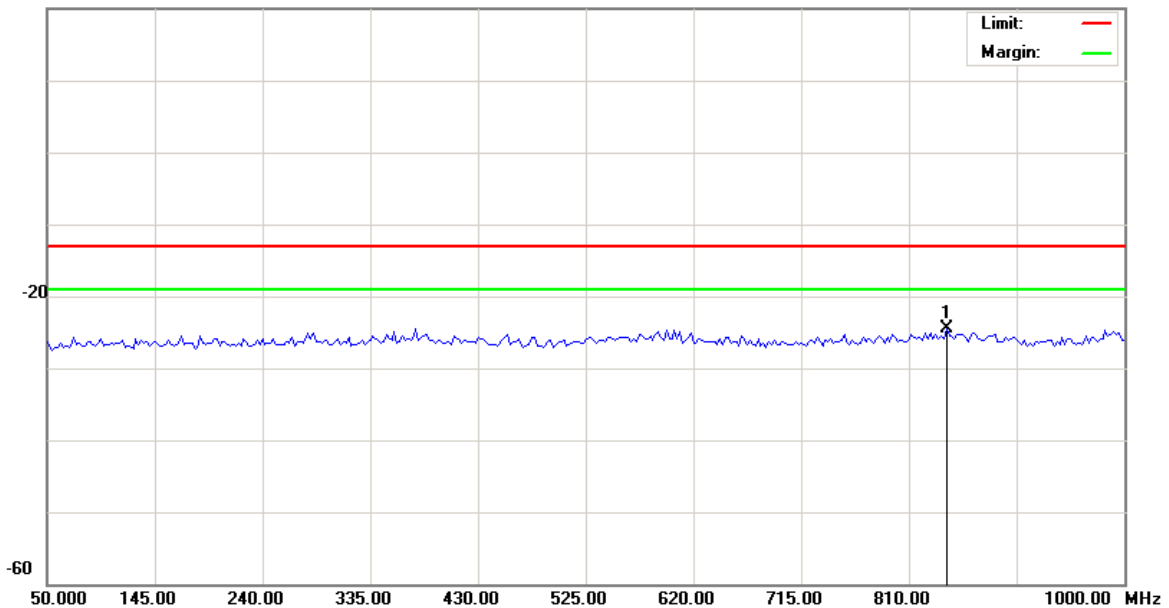
File :colorado111(CH661)

Data :#2

Date: 2008/7/23

Time: 下午 02:27:42

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: PCS1900

Note: CH661

加10db衰减器

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 843.2500 | -37.75        | 13.22          | -24.53       | -13.00 | -11.53 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



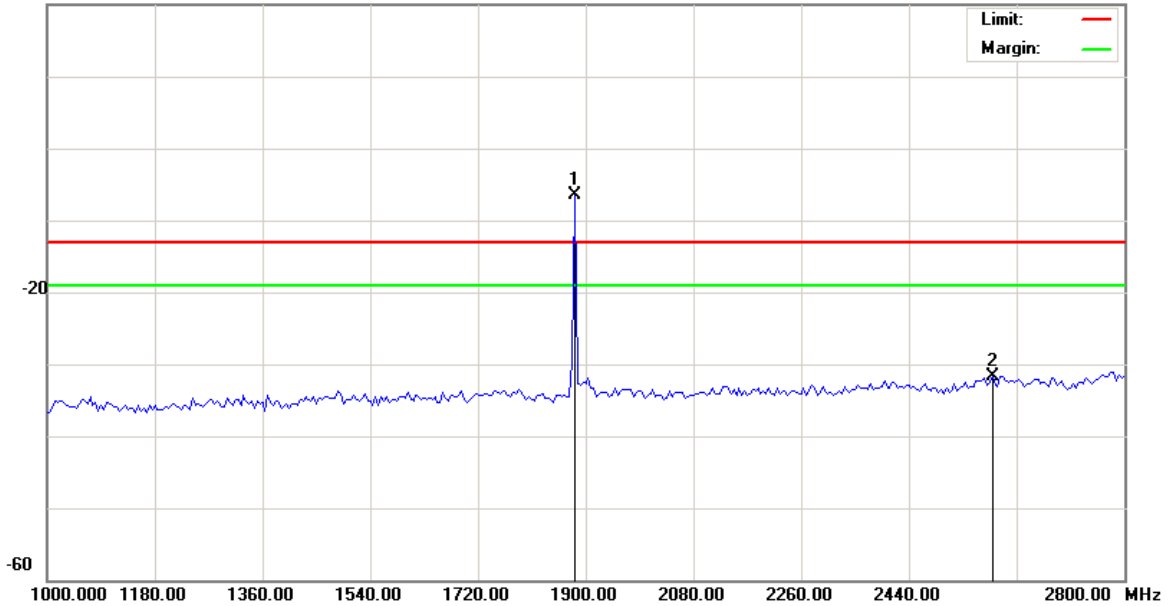
File :colorado111(CH661)

Data :#3

Date: 2008/7/23

Time: 下午 04:08:32

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: PCS1900

Note: CH661

加Notch(5TNF-1700)

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment        |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|------------|-------------------------|---------------------------|----------------|
| 1   | *   | 1882.000     | -11.28                  | 4.83                    | -6.45                   | -13.00       | 6.55       | peak                    |                           | Main Frequency |
| 2   |     | 2579.500     | -37.00                  | 5.35                    | -31.65                  | -13.00       | -18.65     | peak                    |                           |                |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



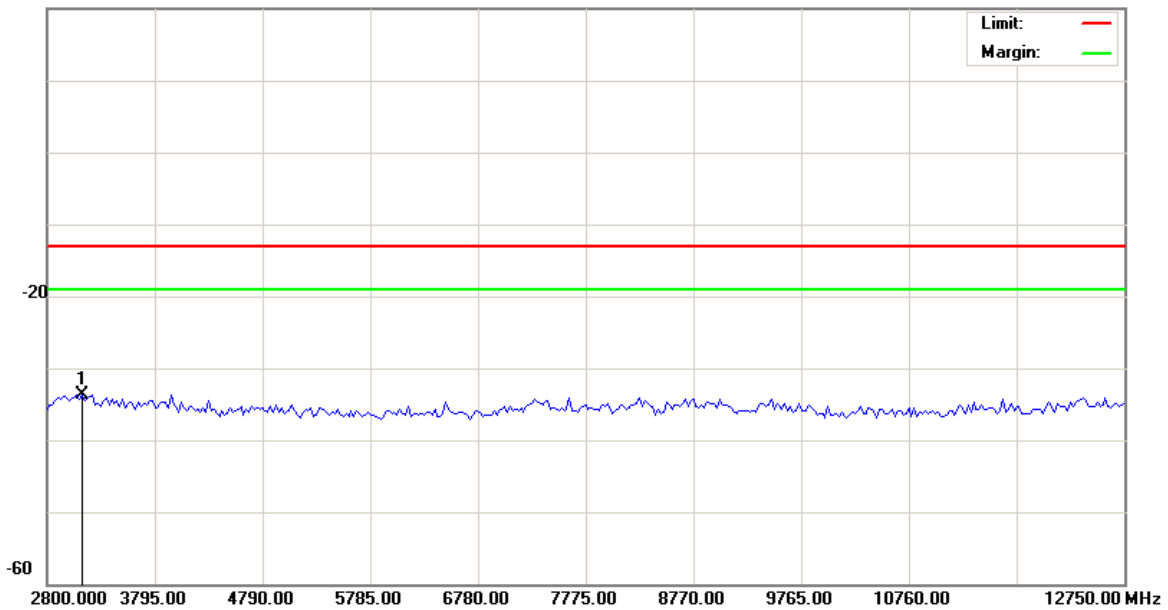
File :colorado111(CH661)

Data :#4

Date: 2008/7/23

Time: 下午 05:48:31

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: PCS1900

Note: CH661

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 3123.375 | -38.92        | 5.30           | -33.62       | -13.00 | -20.62 | peak           |              |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



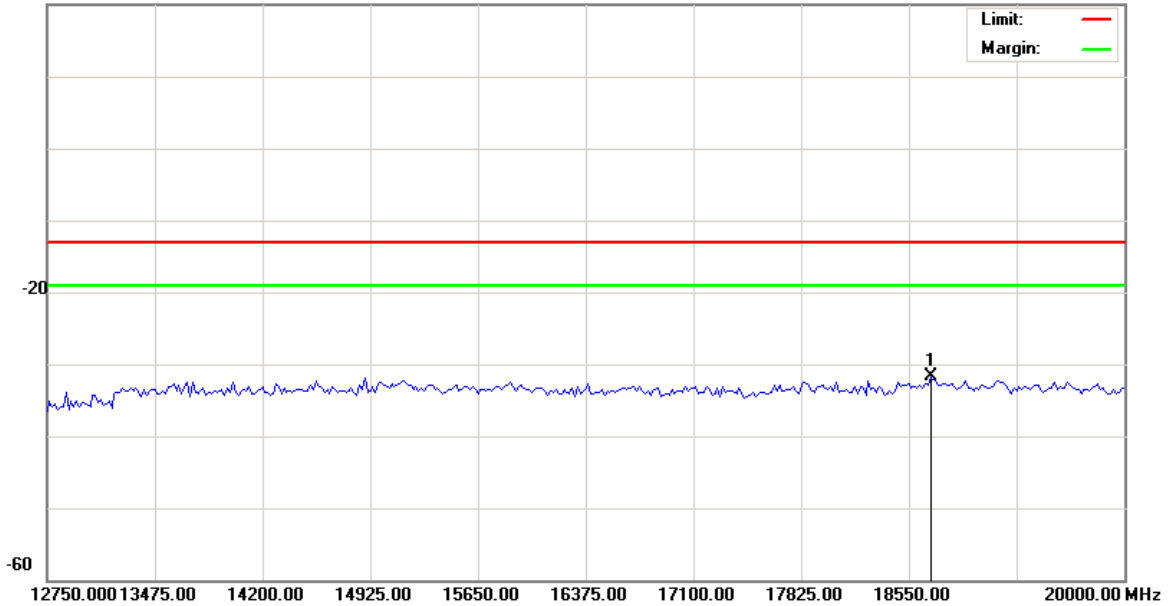
File :colorado111(CH661)

Data :#5

Date: 2008/7/23

Time: 下午 05:48:52

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: PCS1900

Note: CH661

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 18695.00 | -38.78        | 7.07           | -31.71      | -13.00 | -18.71 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only

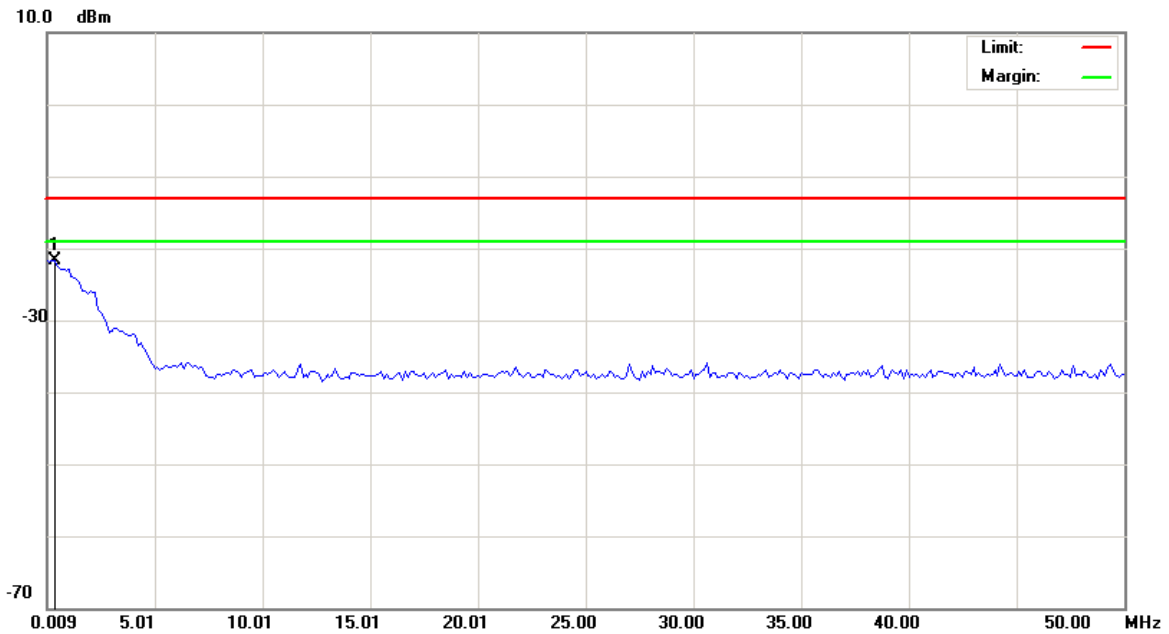


File :colorado111(CH810)

Data :#1

Date: 2008/7/23

Time: 下午 02:29:41



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: PCS1900

Note: CH810

加10db衰减器

| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measure-ment | Limit  | Over  | Antenna Height | Table Degree |         |
|-----|-----|--------|---------------|----------------|--------------|--------|-------|----------------|--------------|---------|
|     |     | MHz    | dBm           | dB             | dBm          | dBm    | dB    | cm             | degree       | Comment |
| 1   | *   | 0.3839 | -34.40        | 12.78          | -21.62       | -13.00 | -8.62 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



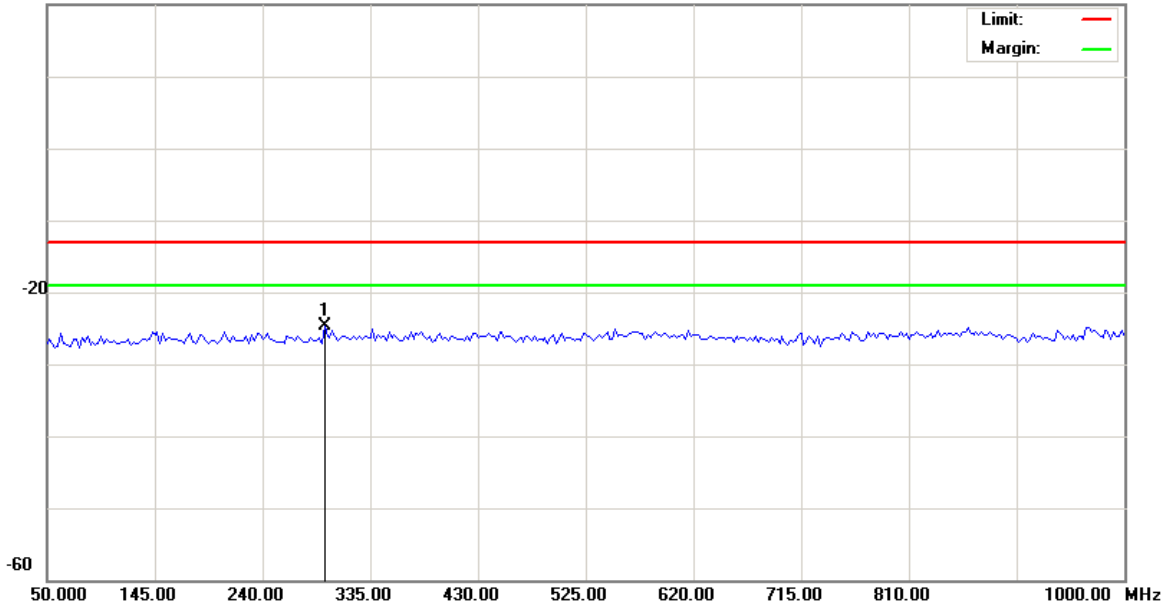
File :colorado111(CH810)

Data :#2

Date: 2008/7/23

Time: 下午 02:30:02

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: PCS1900

Note: CH810

加10db衰减器

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 294.6250 | -38.04        | 13.29          | -24.75       | -13.00 | -11.75 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



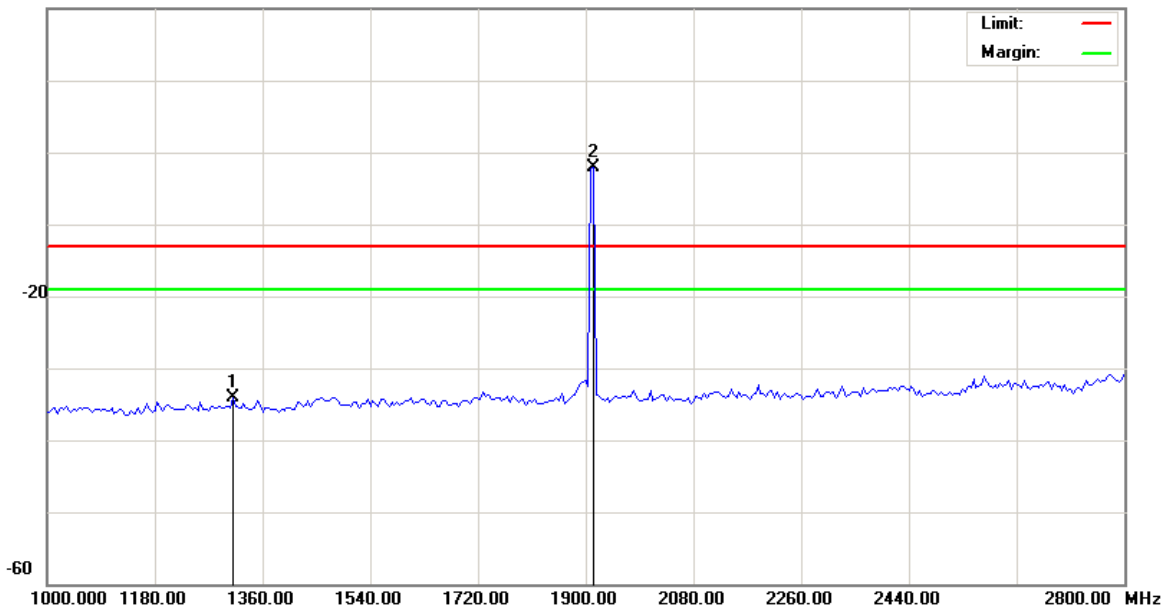
File :colorado111(CH810)

Data :#3

Date: 2008/7/23

Time: 下午 04:11:06

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: PCS1900

Note: CH810

加Notch(5TNF-1700)

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment        |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|------------|-------------------------|---------------------------|----------------|
| 1   |     | 1310.500     | -38.33                  | 4.25                    | -34.08                  | -13.00       | -21.08     | peak                    |                           |                |
| 2   | *   | 1913.500     | -7.50                   | 5.38                    | -2.12                   | -13.00       | 10.88      | peak                    |                           | Main Frequency |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



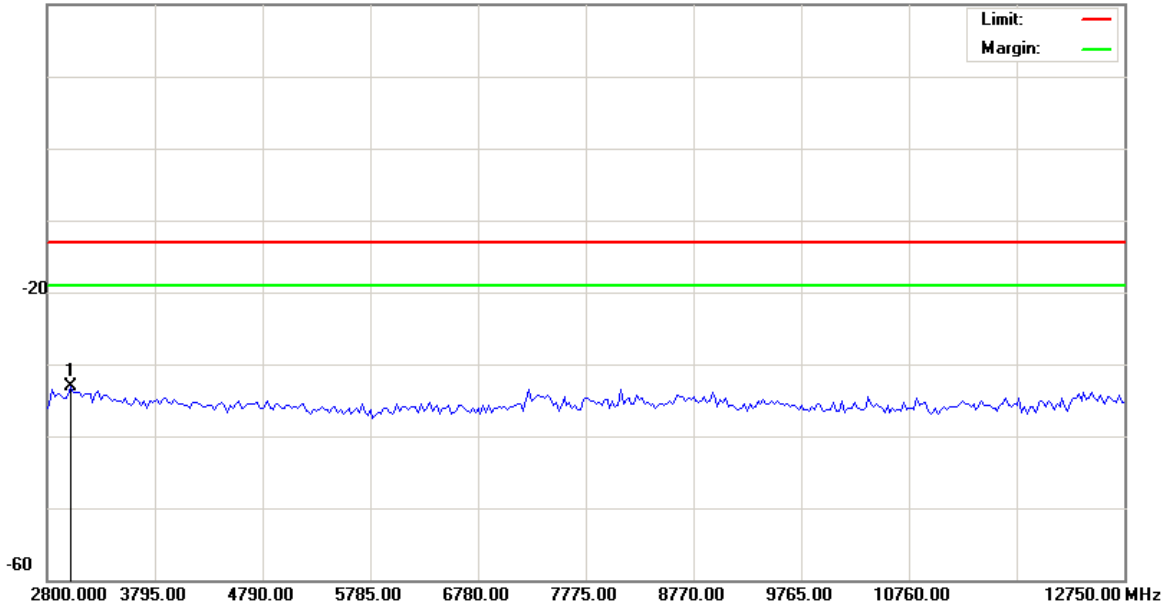
File :colorado111(CH810)

Data :#4

Date: 2008/7/23

Time: 下午 05:49:52

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: PCS1900

Note: CH810

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 3023.875 | -38.65        | 5.48           | -33.17       | -13.00 | -20.17 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



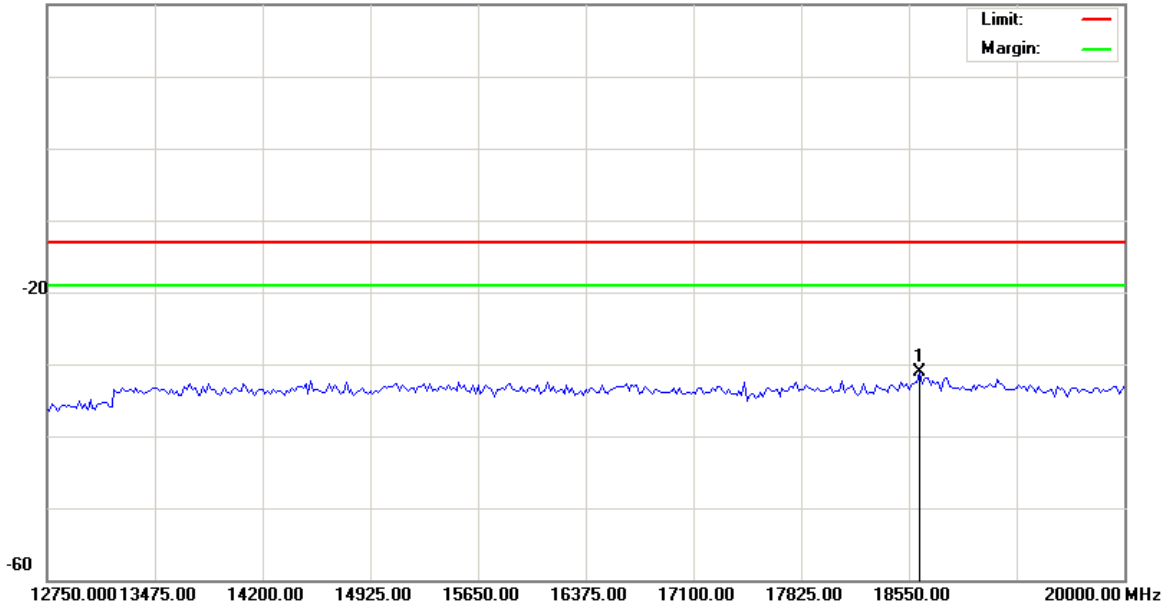
File :colorado111(CH810)

Data :#5

Date: 2008/7/23

Time: 下午 05:50:13

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: PCS1900

Note: CH810

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 18622.50 | -38.24        | 7.05           | -31.19       | -13.00 | -18.19 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



#### 4.5.4.3 WCDMA Band V Test Result

Applicant : Inventec Corporation

Model No : velocity 111

EUT : PDA PHONE

Test Mode : WCDMA Band V (Low CH4132 / Middle CH4182 / High CH 4233)

Test Date : 07/23/2008

Please refer to next pager of detail testing data.

Note: Amplitude= Reading Amplitude + Factor (Cable loss + Filter Amplitude= Insertion loss)

(Auto calculate in spectrum analyzer)



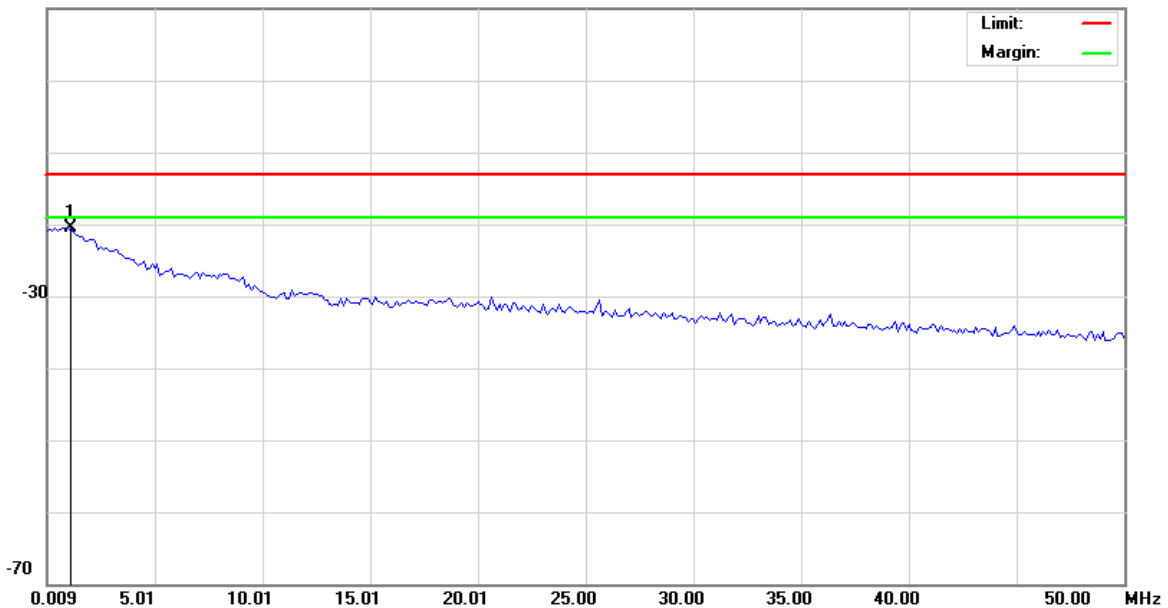
File :colorado111(CH4132)

Data :#1

Date: 2008/7/23

Time: 下午 03:38:13

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDV)

Note: CH4132

加Notch(3TNF-800)

| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measure-ment | Limit  | Over  | Antenna Height | Table Degree |         |
|-----|-----|--------|---------------|----------------|--------------|--------|-------|----------------|--------------|---------|
|     |     | MHz    | dBm           | dB             | dBm          | dBm    | dB    | cm             | degree       | Comment |
| 1   | *   | 1.1335 | -52.41        | 31.88          | -20.53       | -13.00 | -7.53 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only

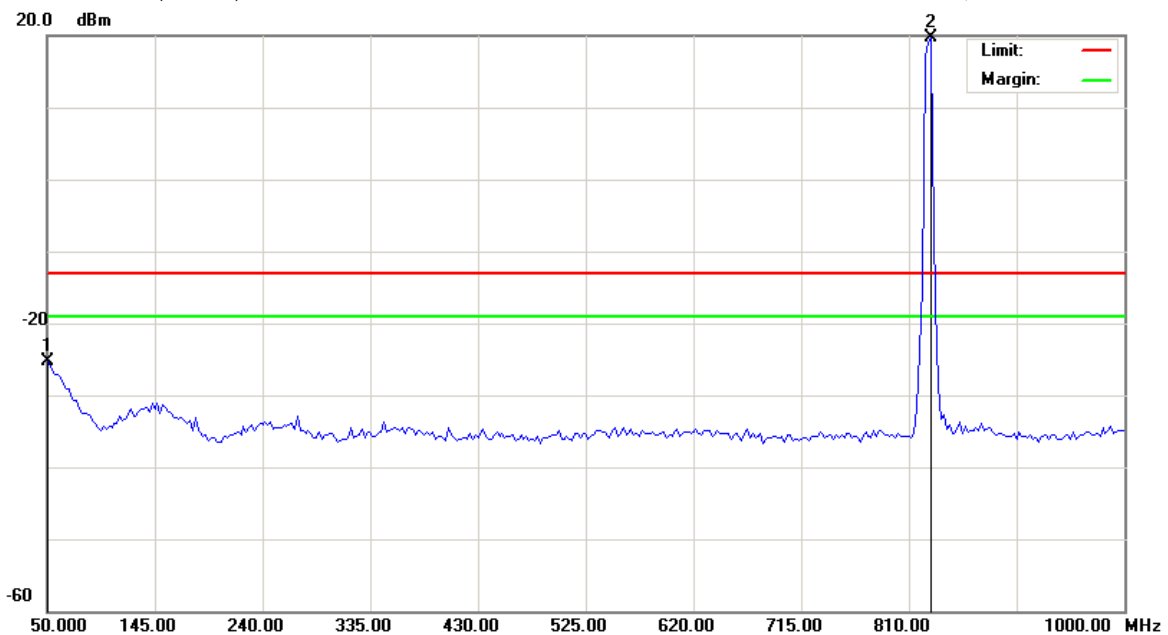


File :colorado111(CH4132)

Data :#2

Date: 2008/7/23

Time: 下午 03:38:35



Site site#1

Polarization: Conducted po

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDV)

Note: CH4132

加Notch(3TNF-800)

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |                |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|----------------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment        |
| 1   |     | 50.0000  | -40.02        | 14.69          | -25.33       | -13.00 | -12.33 | peak           |              |                |
| 2   | *   | 829.0000 | 15.75         | 3.89           | 19.64        | -13.00 | 32.64  | peak           |              | Main Frequency |

\*:Maximum data x:Over limit !:over margin

●Reference Only



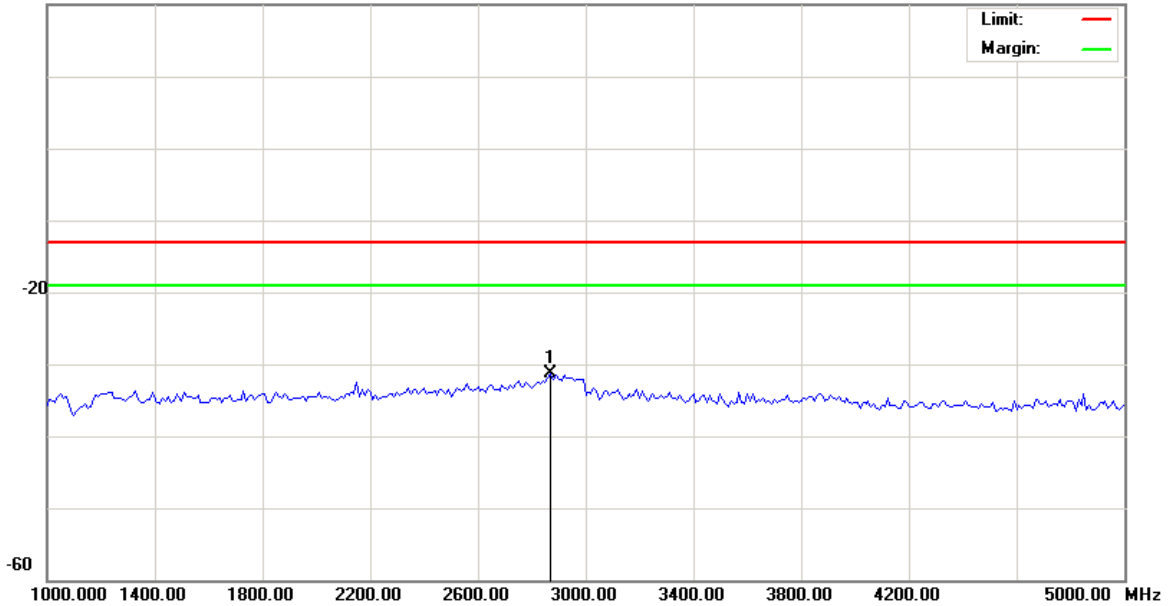
File :colorado111(CH4132)

Data :#3

Date: 2008/7/23

Time: 下午 04:42:06

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDV)

Note: CH4132

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|------------|-------------------------|---------------------------|---------|
| 1   | *   | 2870.000     | -35.93                  | 4.60                    | -31.33                  | -13.00       | -18.33     | peak                    |                           |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



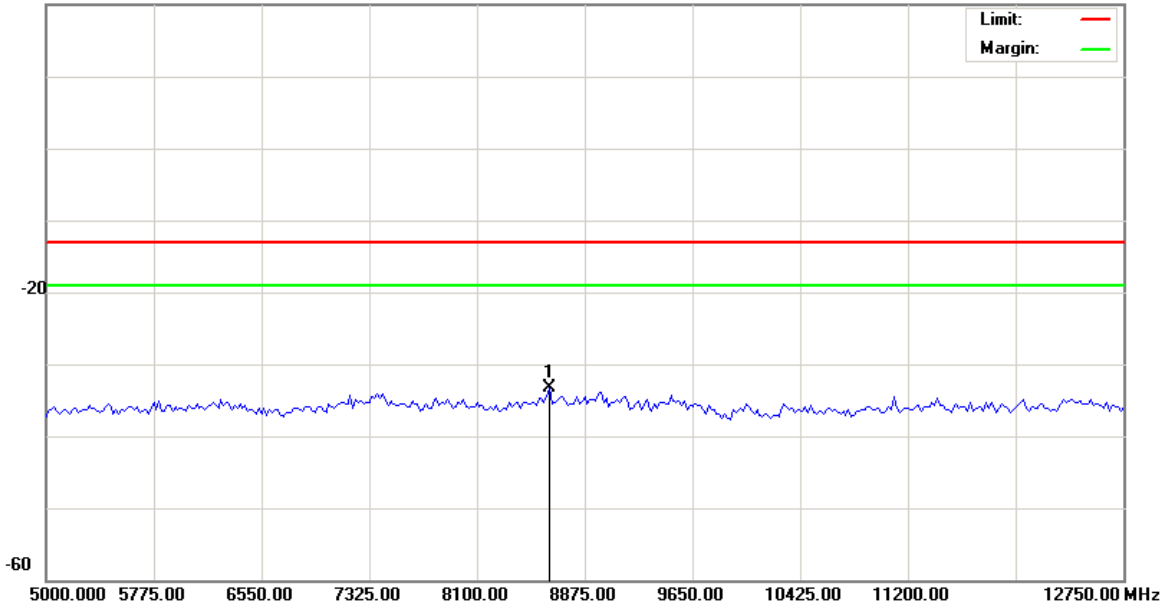
File :colorado111(CH4132)

Data :#4

Date: 2008/7/23

Time: 下午 04:42:27

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDV)

Note: CH4132

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|------------|-------------------------|---------------------------|---------|
| 1   | *   | 8623.125     | -39.11                  | 5.83                    | -33.28                  | -13.00       | -20.28     | peak                    |                           |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



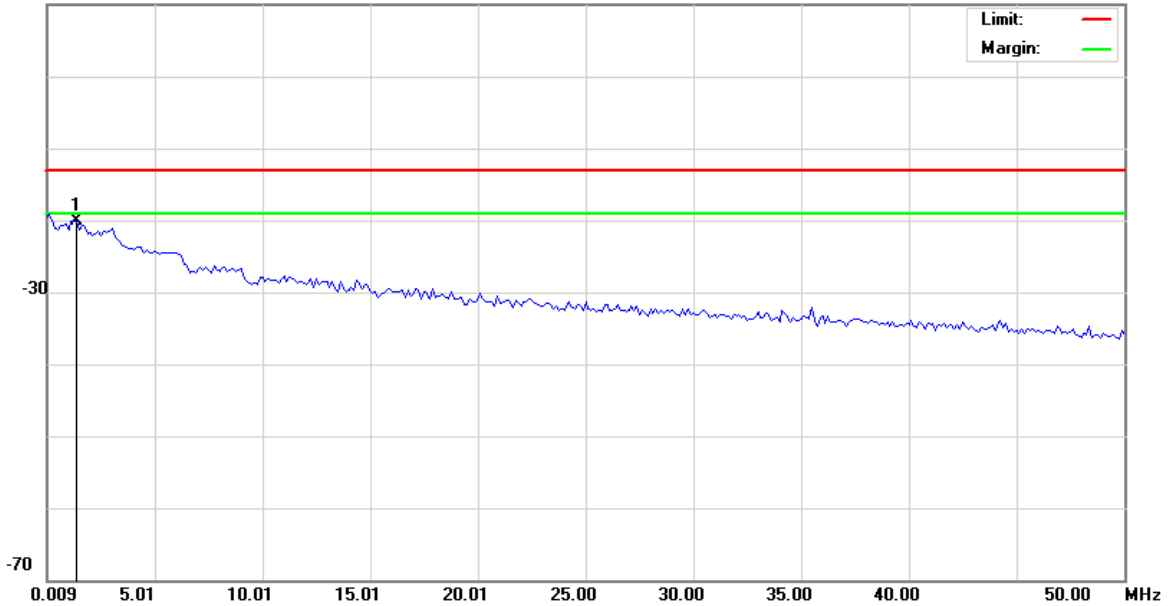
File :colorado111(CH4180)

Data :#1

Date: 2008/7/23

Time: 下午 03:43:53

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDV)

Note: CH4180

加Notch(3TNF-800)

| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measure-ment | Limit  | Over  | Antenna Height | Table Degree |         |
|-----|-----|--------|---------------|----------------|--------------|--------|-------|----------------|--------------|---------|
|     |     | MHz    | dBm           | dB             | dBm          | dBm    | dB    | cm             | degree       | Comment |
| 1   | *   | 1.3835 | -51.42        | 31.37          | -20.05       | -13.00 | -7.05 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



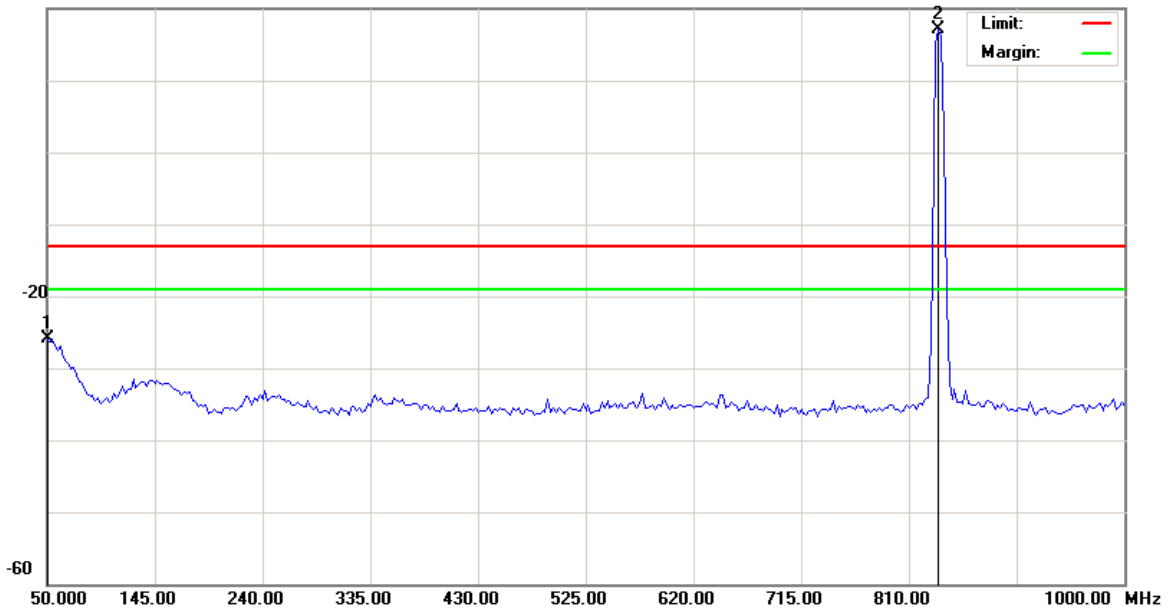
File :colorado111(CH4180)

Data :#2

Date: 2008/7/23

Time: 下午 03:44:15

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDV)

Note: CH4180

加Notch(3TNF-800)

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment        |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|------------|-------------------------|---------------------------|----------------|
| 1   |     | 50.0000      | -40.53                  | 14.69                   | -25.84                  | -13.00       | -12.84     | peak                    |                           |                |
| 2   | *   | 836.1250     | 13.14                   | 3.96                    | 17.10                   | -13.00       | 30.10      | peak                    |                           | Main Frequency |

\*:Maximum data x:Over limit !:over margin

●Reference Only



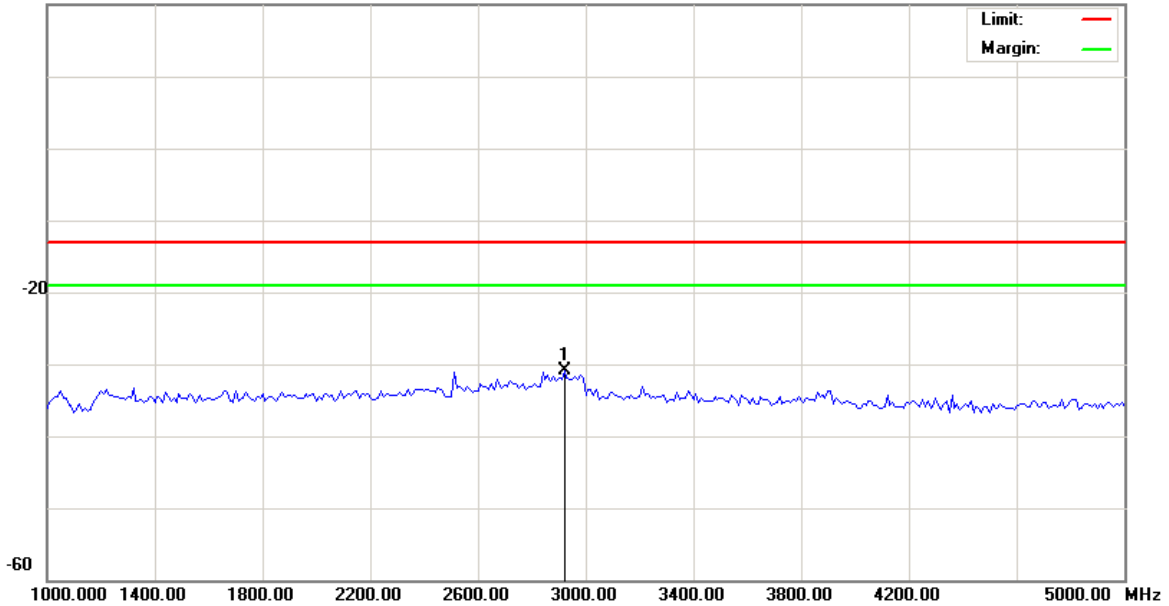
File :colorado111(CH4180)

Data :#3

Date: 2008/7/23

Time: 下午 04:43:06

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDV)

Note: CH4180

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 2920.000 | -35.67        | 4.69           | -30.98      | -13.00 | -17.98 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



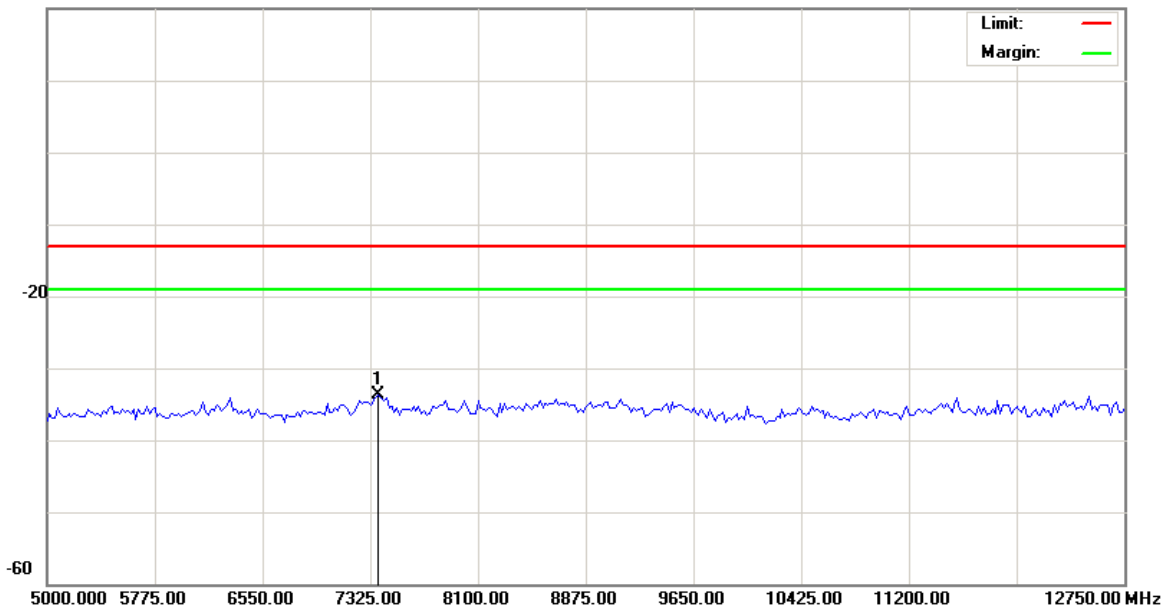
File :colorado111(CH4180)

Data :#4

Date: 2008/7/23

Time: 下午 04:43:27

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDV)

Note: CH4180

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 7383.125 | -38.81        | 5.14           | -33.67       | -13.00 | -20.67 | peak           |              |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



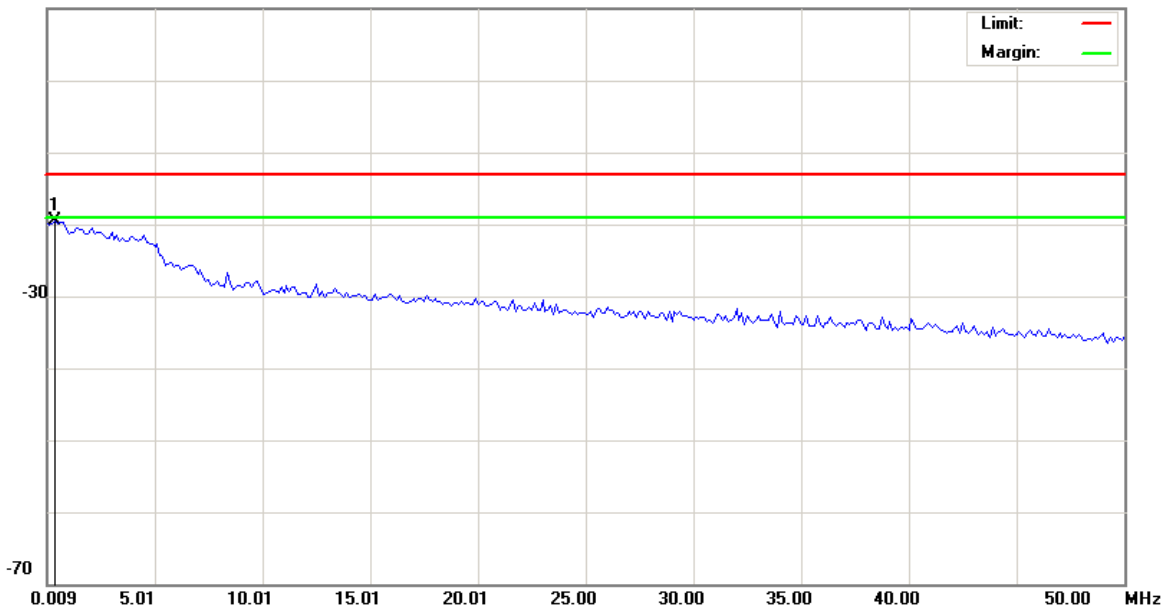
File :colorado111(CH4233)

Data :#1

Date: 2008/7/23

Time: 下午 03:46:52

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDV)

Note: CH4233

加Notch(3TNF-800)

| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measure-ment | Limit  | Over  | Antenna Height | Table Degree |         |
|-----|-----|--------|---------------|----------------|--------------|--------|-------|----------------|--------------|---------|
|     |     | MHz    | dBm           | dB             | dBm          | dBm    | dB    | cm             | degree       | Comment |
| 1   | *   | 0.3839 | -51.47        | 31.89          | -19.58       | -13.00 | -6.58 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only

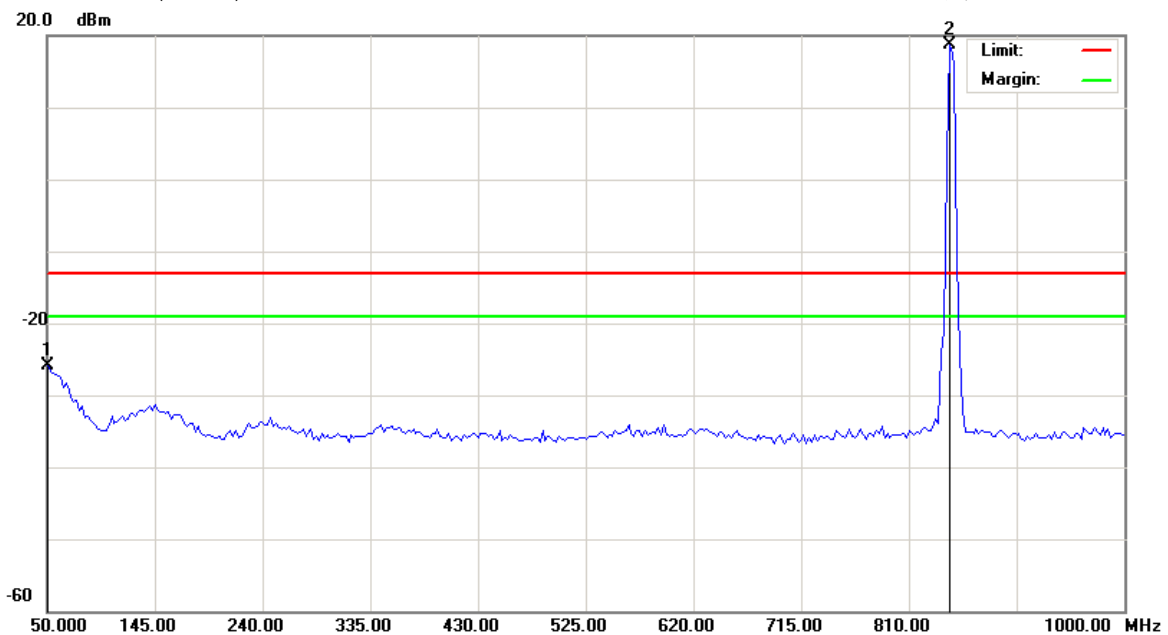


File :colorado111(CH4233)

Data :#2

Date: 2008/7/23

Time: 下午 03:47:14



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDV)

Note: CH4233

加Notch(3TNF-800)

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |                |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|----------------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment        |
| 1   |     | 50.0000  | -40.49        | 14.69          | -25.80       | -13.00 | -12.80 | peak           |              |                |
| 2   | *   | 845.6250 | 14.80         | 3.99           | 18.79        | -13.00 | 31.79  | peak           |              | Main Frequency |

\*:Maximum data x:Over limit !:over margin

●Reference Only



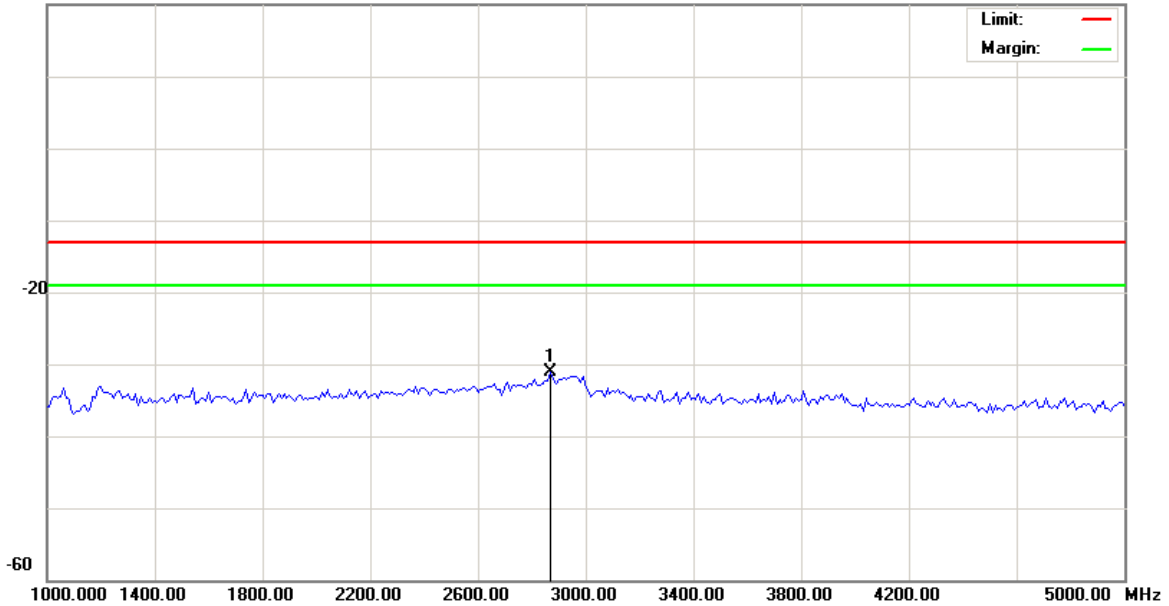
File :colorado111(CH4233)

Data :#3

Date: 2008/7/23

Time: 下午 04:44:05

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDV)

Note: CH4233

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 2870.000 | -35.79        | 4.60           | -31.19       | -13.00 | -18.19 | peak           |              |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



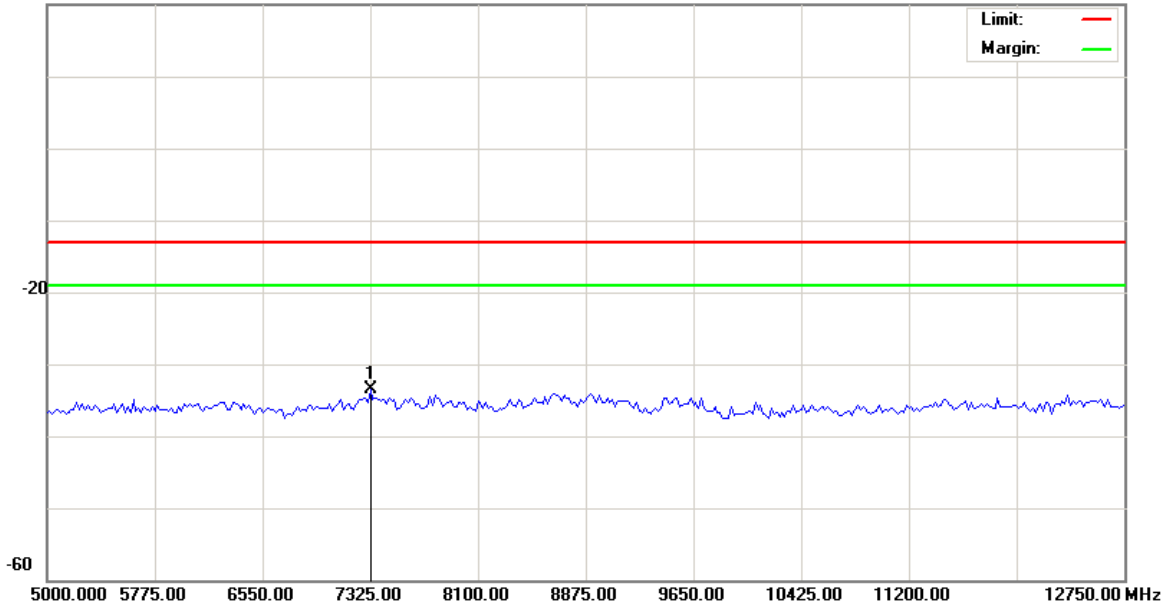
File :colorado111(CH4233)

Data :#4

Date: 2008/7/23

Time: 下午 04:44:26

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 22 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDV)

Note: CH4233

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 7325.000 | -38.61        | 5.10           | -33.51       | -13.00 | -20.51 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



#### 4.5.4.4 WCDMA Band II Test Result

Applicant : Inventec Corporation

Model No : velocity 111

EUT : PDA PHONE

Test Mode : WCDMA Band II (Low CH9262 / Middle CH9400 / High CH 9536)

Test Date : 07/23/2008

Please refer to next pager of detail testing data.

Note: Amplitude= Reading Amplitude + Factor (Cable loss + Filter Amplitude= Insertion loss)

(Auto calculate in spectrum analyzer)



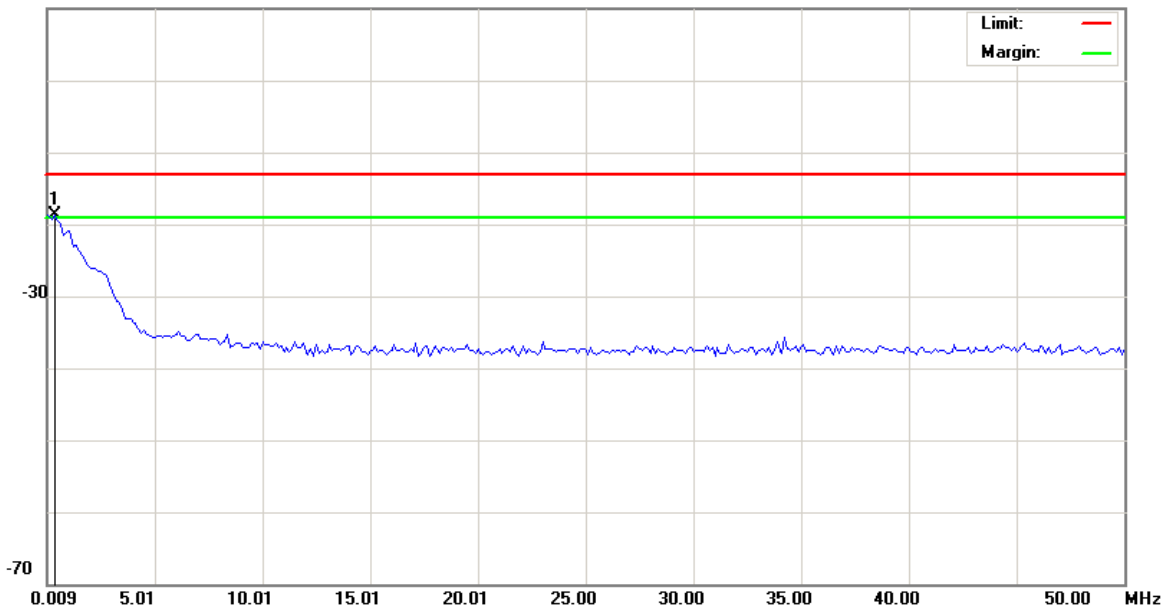
File :colorado111(CH9262)

Data :#1

Date: 2008/7/23

Time: 下午 02:36:58

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDII)

Note: CH9262

加10db衰减器

| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit  | Over  | Antenna Height | Table Degree |         |
|-----|-----|--------|---------------|----------------|-------------|--------|-------|----------------|--------------|---------|
|     |     | MHz    | dBm           | dB             | dBm         | dBm    | dB    | cm             | degree       | Comment |
| 1   | *   | 0.3839 | -31.41        | 12.78          | -18.63      | -13.00 | -5.63 | peak           |              |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



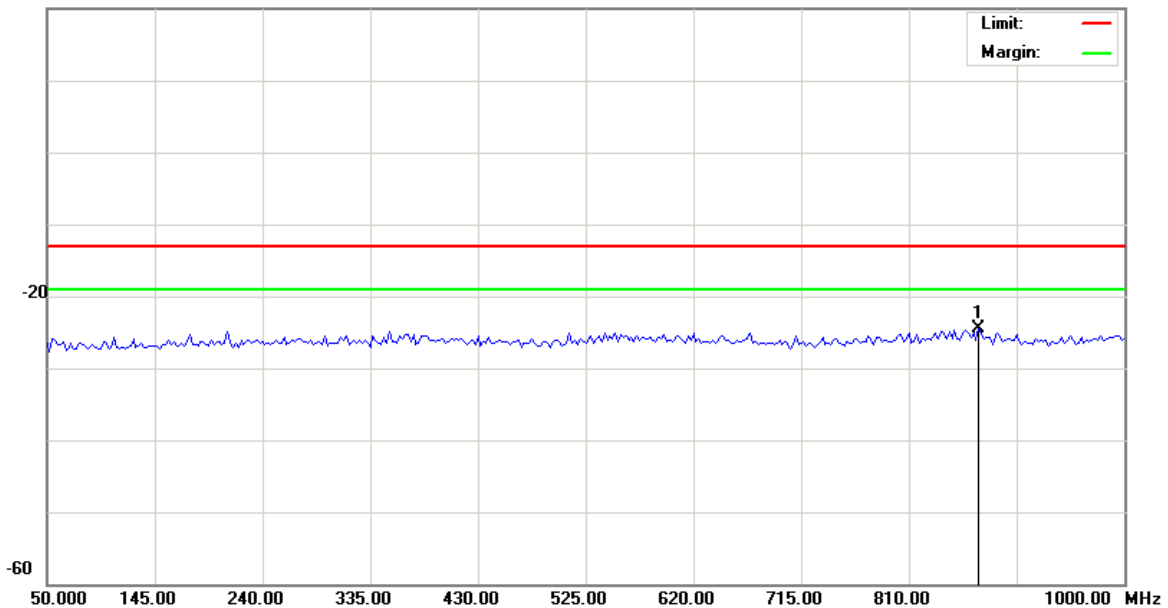
File :colorado111(CH9262)

Data :#2

Date: 2008/7/23

Time: 下午 02:37:19

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDII)

Note: CH9262

加10db衰减器

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 871.7500 | -37.71        | 13.27          | -24.44       | -13.00 | -11.44 | peak           |              |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



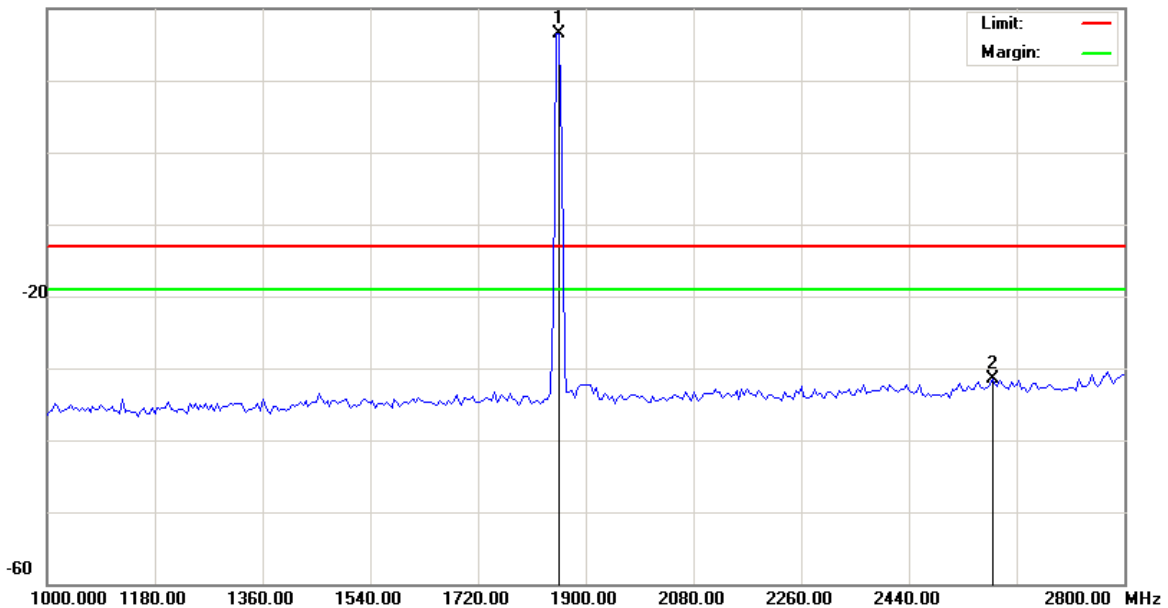
File :colorado111(CH9262)

Data :#3

Date: 2008/7/23

Time: 下午 04:30:45

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDII)

Note: CH9262

加Notch(5TNF-1700)

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment        |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|------------|-------------------------|---------------------------|----------------|
| 1   | *   | 1855.000     | 12.28                   | 4.29                    | 16.57                   | -13.00       | 29.57      | peak                    |                           | Main Frequency |
| 2   |     | 2579.500     | -36.87                  | 5.35                    | -31.52                  | -13.00       | -18.52     | peak                    |                           |                |

\*:Maximum data x:Over limit !:over margin

●Reference Only



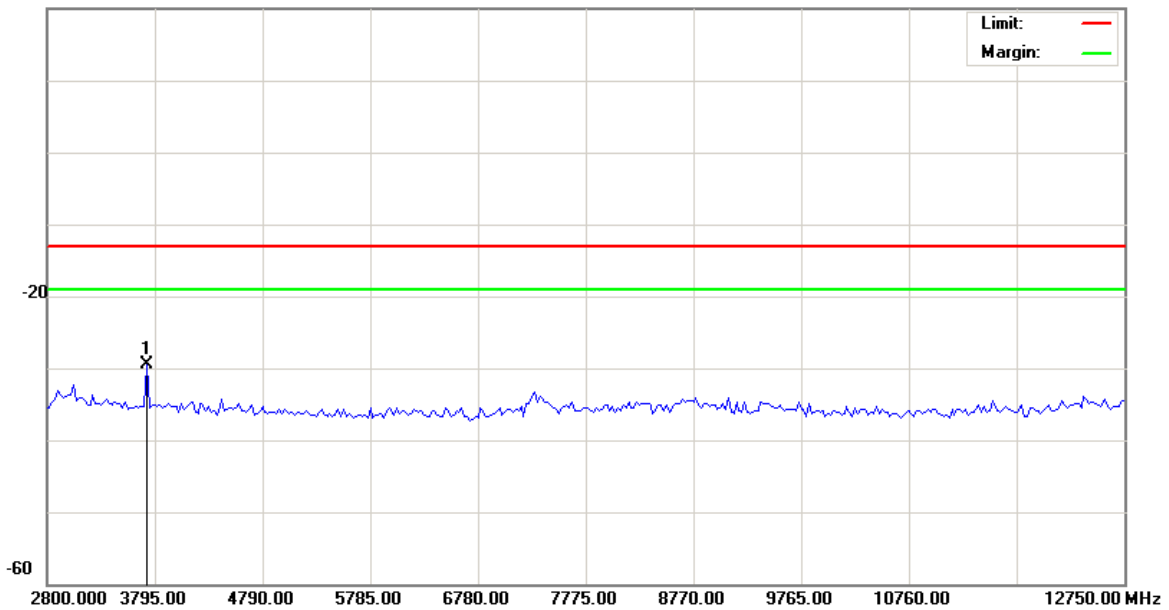
File :colorado111(CH9262)

Data :#4

Date: 2008/7/23

Time: 下午 04:39:06

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDII)

Note: CH9262

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 3720.375 | -34.39        | 4.88           | -29.51       | -13.00 | -16.51 | peak           |              |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



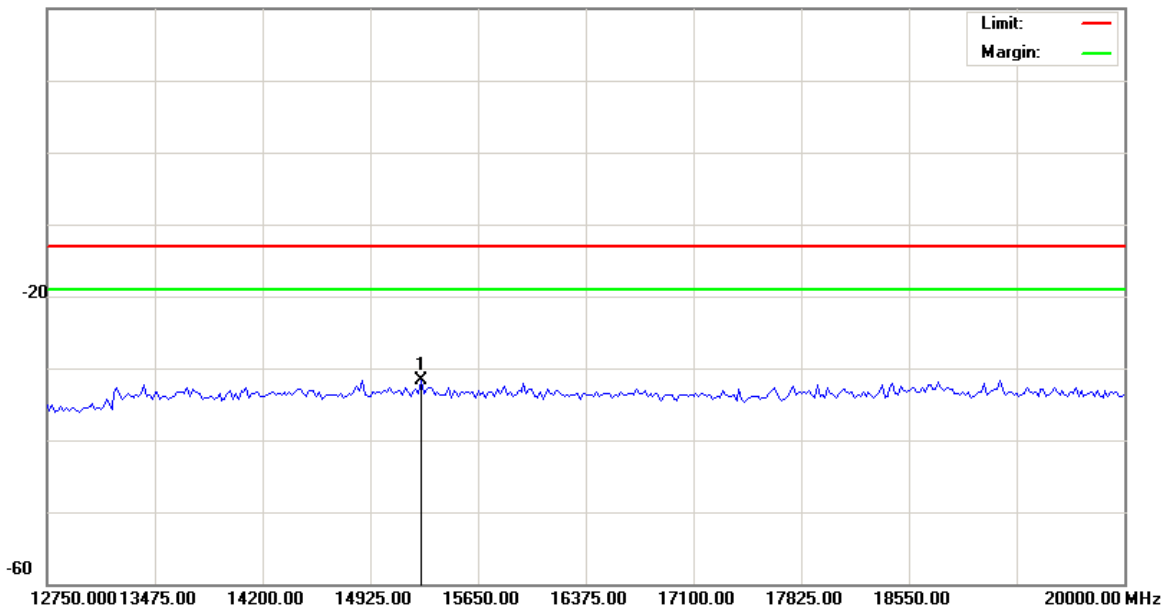
File :colorado111(CH9262)

Data :#5

Date: 2008/7/23

Time: 下午 04:39:27

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDII)

Note: CH9262

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 15269.37 | -37.80        | 6.09           | -31.71       | -13.00 | -18.71 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



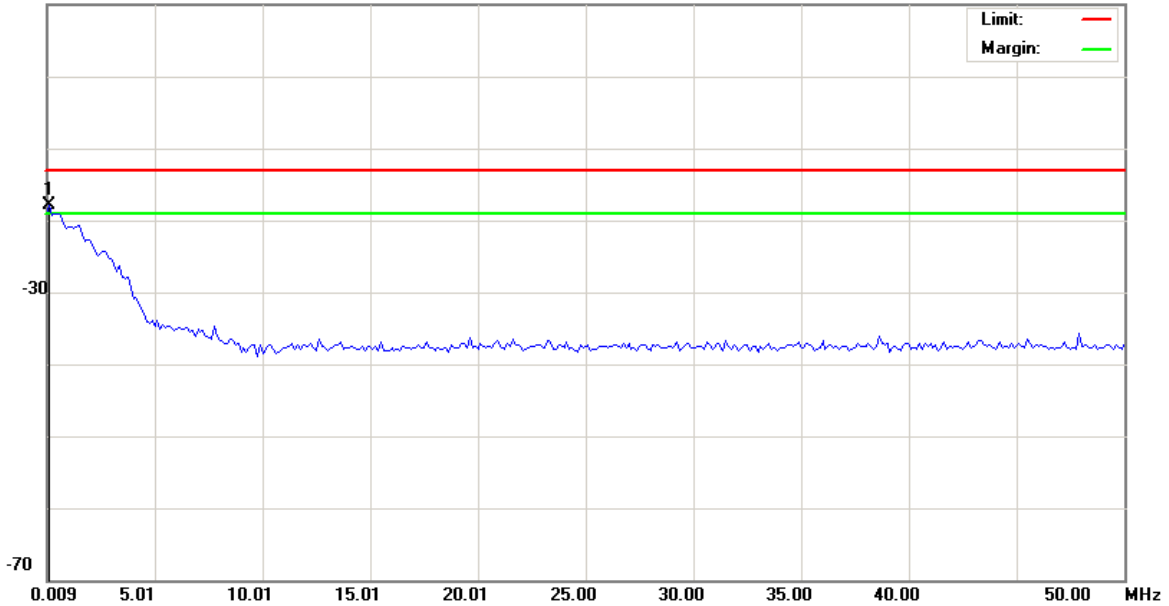
File :colorado111(CH9400)

Data :#1

Date: 2008/7/23

Time: 下午 02:43:01

10.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDII)

Note: CH9400

加10db衰减器

| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit  | Over  | Antenna Height | Table Degree |         |
|-----|-----|--------|---------------|----------------|-------------|--------|-------|----------------|--------------|---------|
|     |     | MHz    | dBm           | dB             | dBm         | dBm    | dB    | cm             | degree       | Comment |
| 1   | *   | 0.1340 | -30.47        | 12.48          | -17.99      | -13.00 | -4.99 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



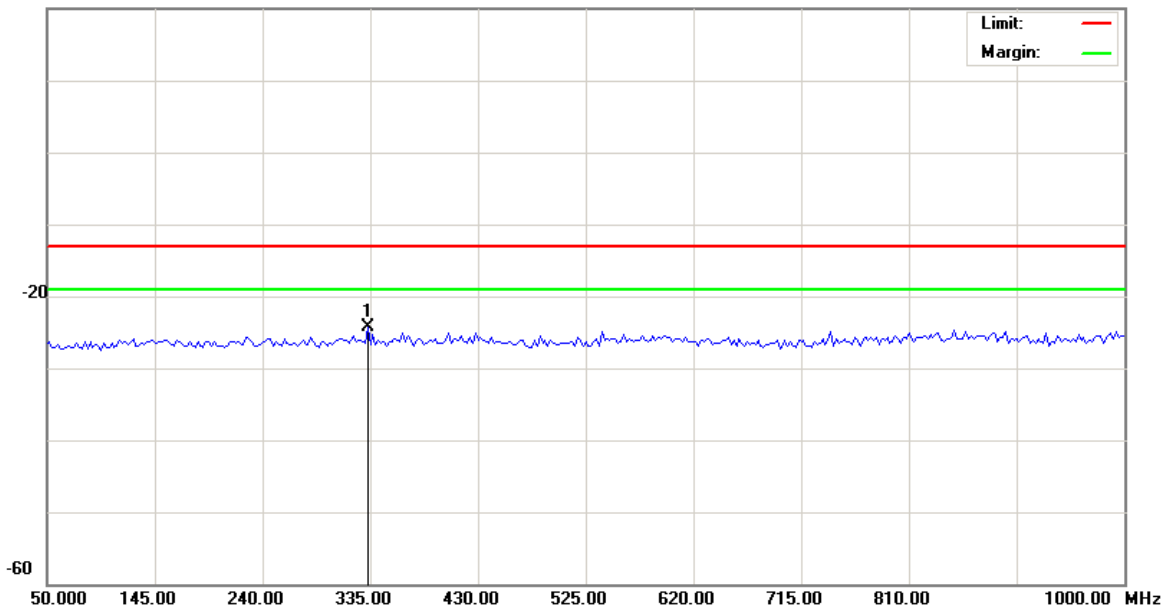
File :colorado111(CH9400)

Data :#2

Date: 2008/7/23

Time: 下午 02:43:23

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDII)

Note: CH9400

加10db衰减器

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 332.6250 | -37.53        | 13.15          | -24.38       | -13.00 | -11.38 | peak           |              |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only

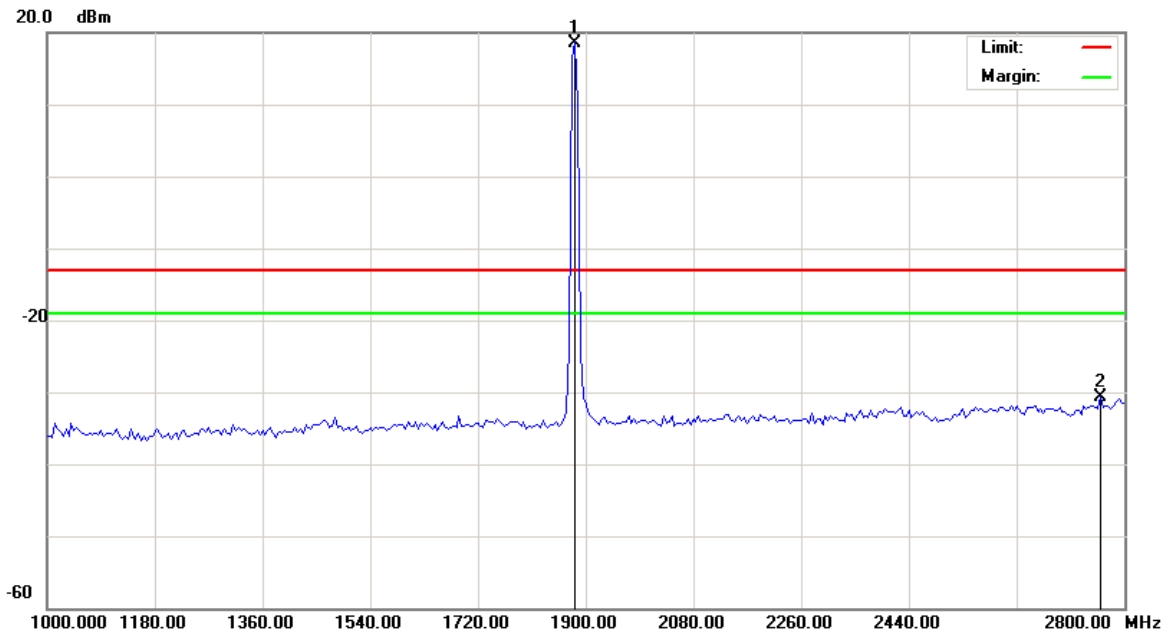


File :colorado111(CH9400)

Data :#3

Date: 2008/7/23

Time: 下午 04:32:04



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDII)

Note: CH9400

加Notch(5TNF-1700)

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment        |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|------------|-------------------------|---------------------------|----------------|
| 1   | *   | 1882.000     | 13.77                   | 4.83                    | 18.60                   | -13.00       | 31.60      | peak                    |                           | Main Frequency |
| 2   |     | 2759.500     | -36.28                  | 5.59                    | -30.69                  | -13.00       | -17.69     | peak                    |                           |                |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



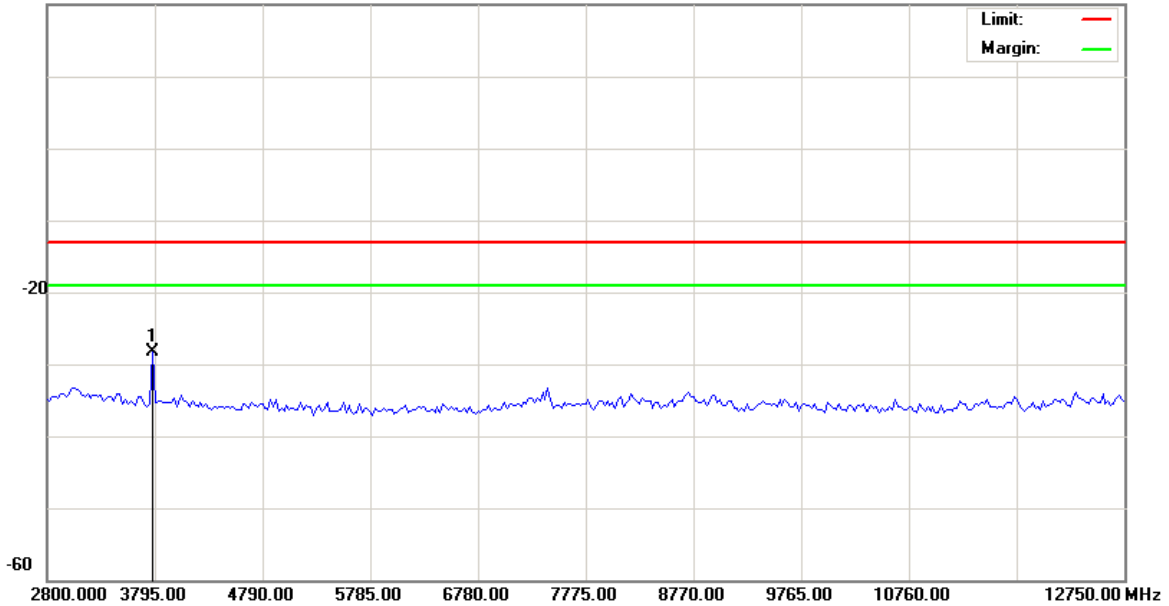
File :colorado111(CH9400)

Data :#4

Date: 2008/7/23

Time: 下午 04:38:04

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDII)

Note: CH9400

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 3770.125 | -33.31        | 4.93           | -28.38       | -13.00 | -15.38 | peak           |              |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



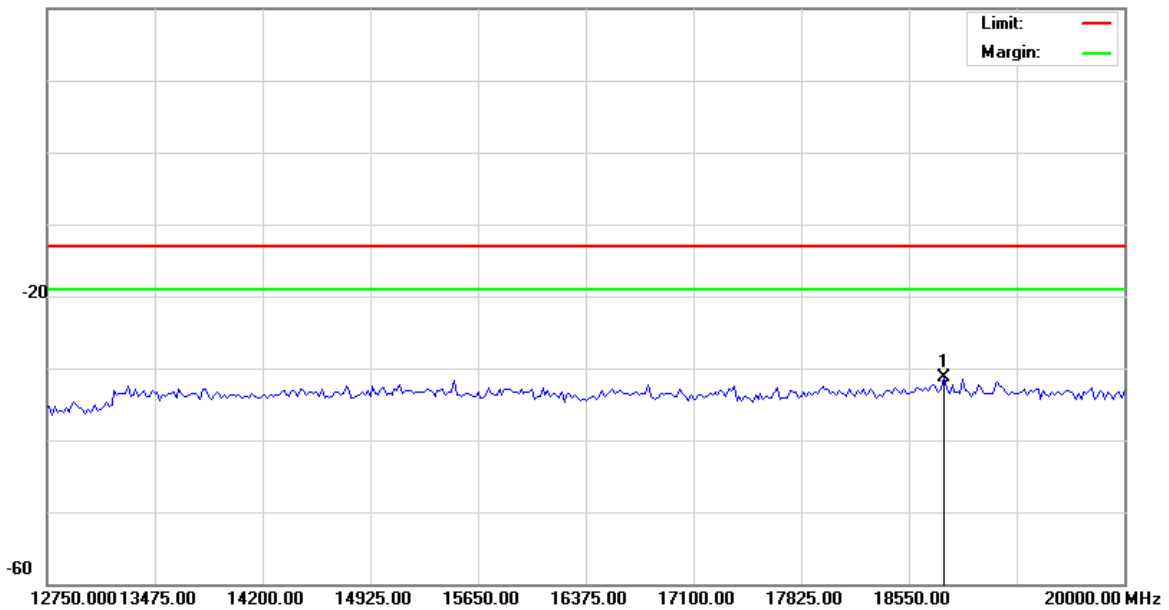
File :colorado111(CH9400)

Data :#5

Date: 2008/7/23

Time: 下午 04:38:26

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDII)

Note: CH9400

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 18785.62 | -38.37        | 7.09           | -31.28       | -13.00 | -18.28 | peak           |              |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only

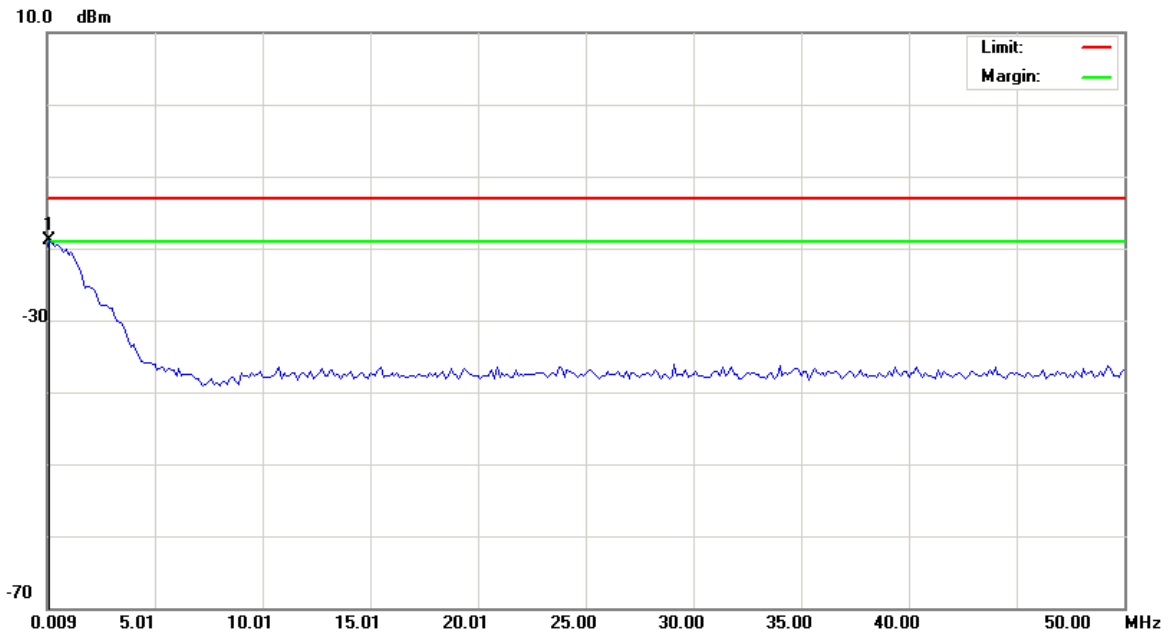


File :colorado111(CH9538)

Data :#1

Date: 2008/7/23

Time: 下午 02:45:13



Site site#1

Polarization: Conducted po

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDII)

Note: CH9538

加10db衰减器

| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measure-ment | Limit  | Over  | Antenna Height | Table Degree |         |
|-----|-----|--------|---------------|----------------|--------------|--------|-------|----------------|--------------|---------|
|     |     | MHz    | dBm           | dB             | dBm          | dBm    | dB    | cm             | degree       | Comment |
| 1   | *   | 0.1340 | -31.46        | 12.48          | -18.98       | -13.00 | -5.98 | peak           |              |         |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



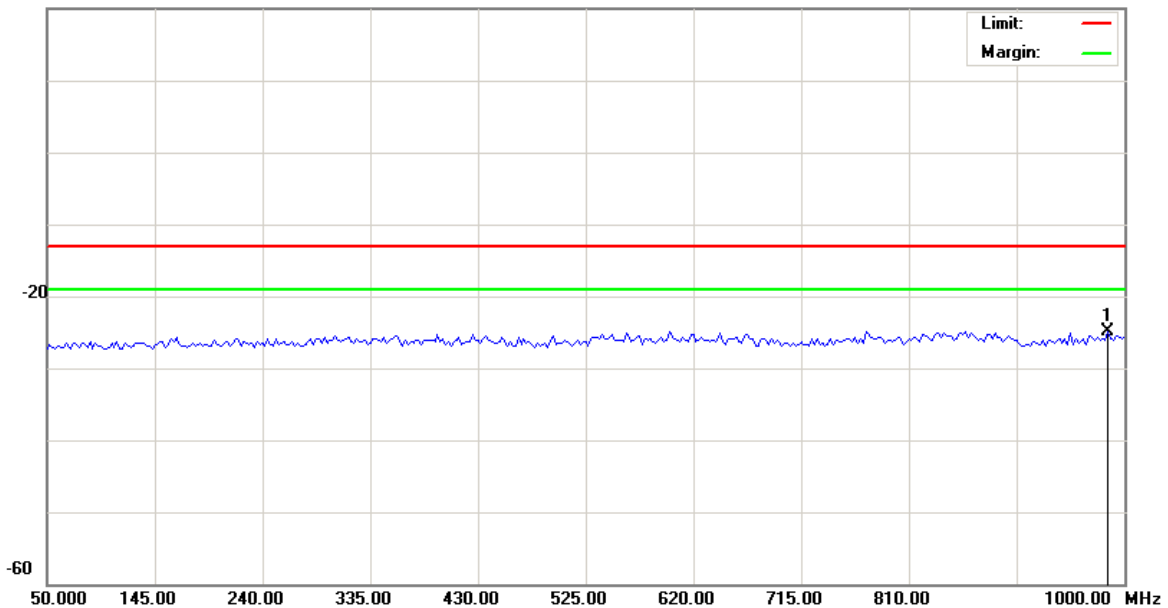
File :colorado111(CH9538)

Data :#2

Date: 2008/7/23

Time: 下午 02:45:34

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDII)

Note: CH9538

加10db衰减器

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 985.7500 | -38.10        | 13.22          | -24.88       | -13.00 | -11.88 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only

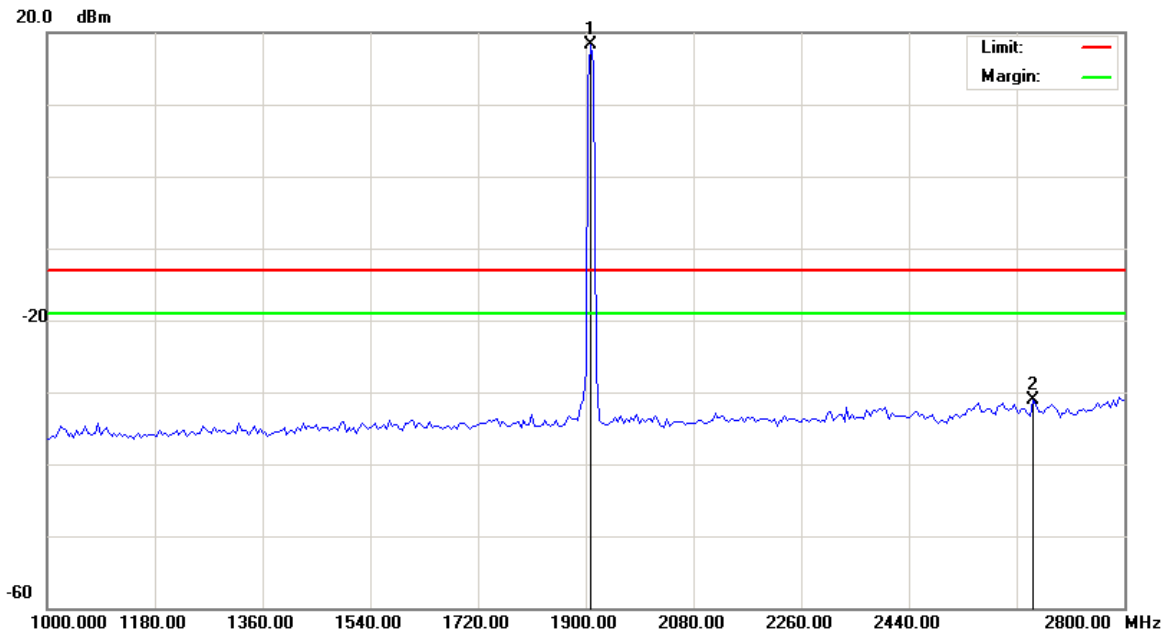


File :colorado111(CH9538)

Data :#3

Date: 2008/7/23

Time: 下午 04:33:10



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDII)

Note: CH9538

加Notch(5TNF-1700)

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBm | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBm | Limit<br>dBm | Over<br>dB | Antenna<br>Height<br>cm | Table<br>Degree<br>degree | Comment        |
|-----|-----|--------------|-------------------------|-------------------------|-------------------------|--------------|------------|-------------------------|---------------------------|----------------|
| 1   | *   | 1909.000     | 12.42                   | 5.80                    | 18.22                   | -13.00       | 31.22      | peak                    |                           | Main Frequency |
| 2   |     | 2647.000     | -36.11                  | 4.92                    | -31.19                  | -13.00       | -18.19     | peak                    |                           |                |

\*:Maximum data    x:Over limit    !:over margin

●Reference Only



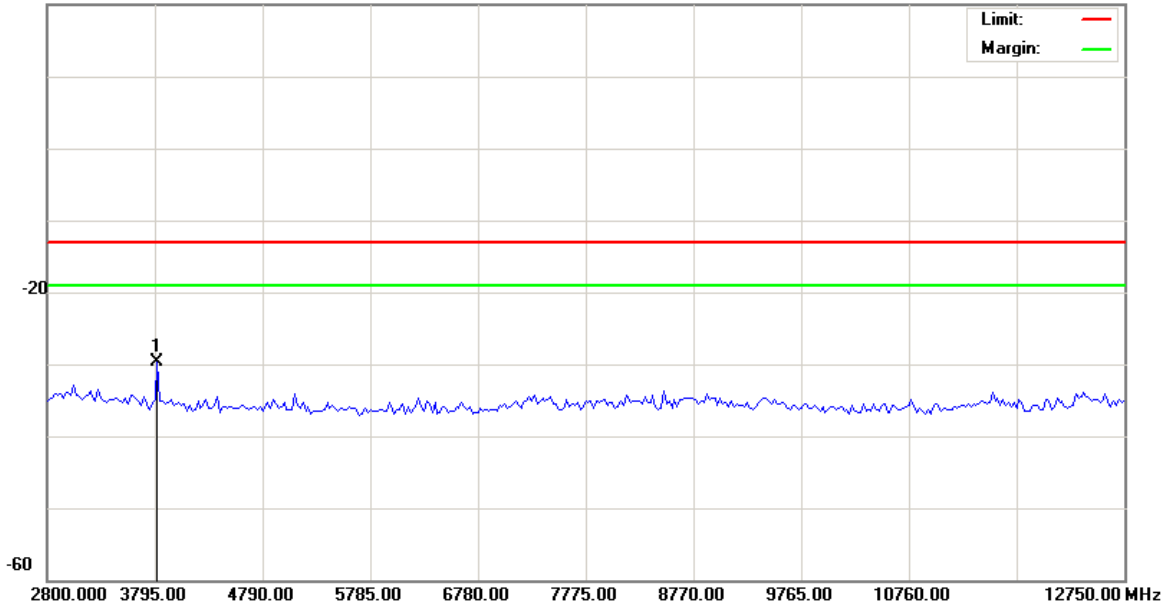
File :colorado111(CH9538)

Data :#4

Date: 2008/7/23

Time: 下午 04:36:47

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDII)

Note: CH9538

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm          | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 3819.875 | -34.69        | 4.91           | -29.78       | -13.00 | -16.78 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



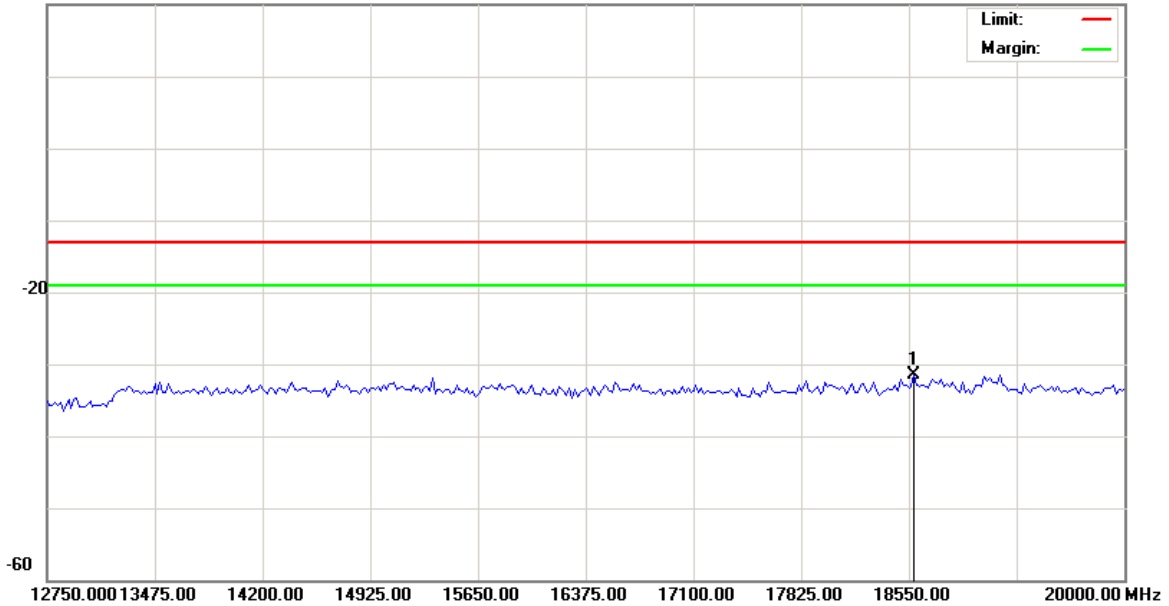
File :colorado111(CH9538)

Data :#5

Date: 2008/7/23

Time: 下午 04:37:09

20.0 dBm



Site site#1

Polarization: **Conducted po**

Temperature: 26 °C

Limit: FCC Part 24 conducted(9k-12.75G)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

Distance:

M/N:

Mode: WCDMA(BANDII)

Note: CH9538

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   | Antenna Height | Table Degree |         |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------------|--------------|---------|
|     |     | MHz      | dBm           | dB             | dBm         | dBm    | dB     | cm             | degree       | Comment |
| 1   | *   | 18586.25 | -38.47        | 7.04           | -31.43      | -13.00 | -18.43 | peak           |              |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



## 4.6 Field Strength of Spurious Radiation

Equivalent isotropic radiated Power Measurements by substitution method according to ANSI/TIA/EIA-603-A .

### 4.6.1 Measurement Instruments

As described in chapter 5 of this test report.

### 4.6.2 Test Procedure

The measurement is made according to ANSI/TIA-603-C-2004 as follows:

The equipment under test is placed inside the semi-anechoic chamber on a wooden table at the turntable center. For each spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters and the turntable is rotated 360 degrees to obtain a maximum reading on the spectrum analyzer. This is repeated for both horizontal and vertical polarizations of the receive antenna.

The equipment under test is then replaced with a substitution antenna fed by a signal generator. With the signal generator tuned to a particular spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters to obtain a maximum reading at the spectrum analyzer. The output of the signal generator is then adjusted until a reading identical to that obtained with the actual transmitter is achieved.

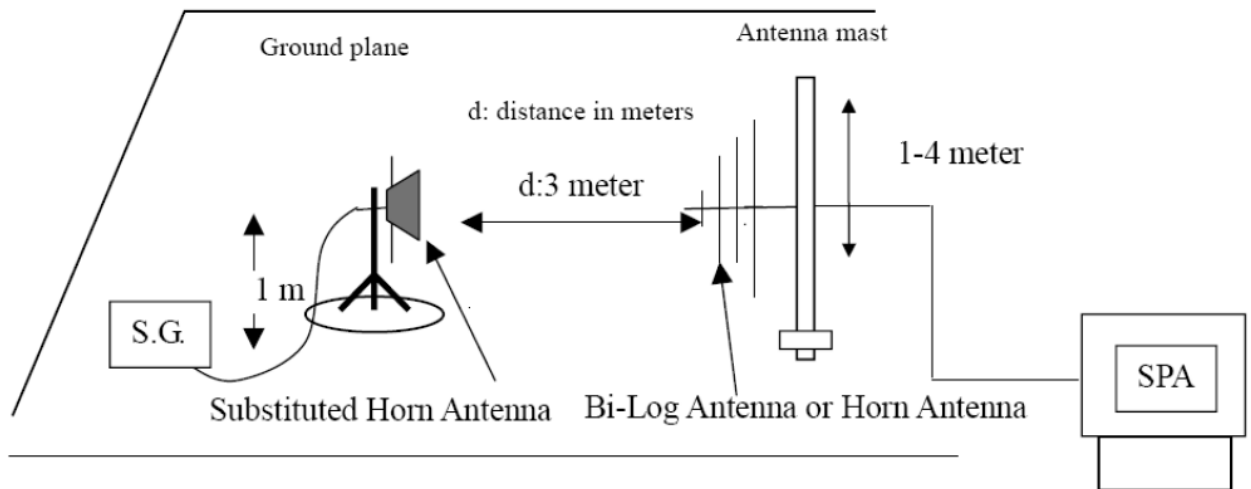
The power in dBm of each spurious emission is calculated by correcting the signal generator level for cable loss and gain of the substitution antenna referenced to a dipole. A fully charged battery was used for the supply voltage.

The settings of the receiver were as follows:

|                      |       |
|----------------------|-------|
| Units                | dBm   |
| Resolution Bandwidth | 1 MHz |
| Video Bandwidth      | Auto  |
| Sweep Time           | Auto  |

### 4.6.3 Test Setup Layout

Substituted Method Test Set-up





#### 4.6.4 Test Result

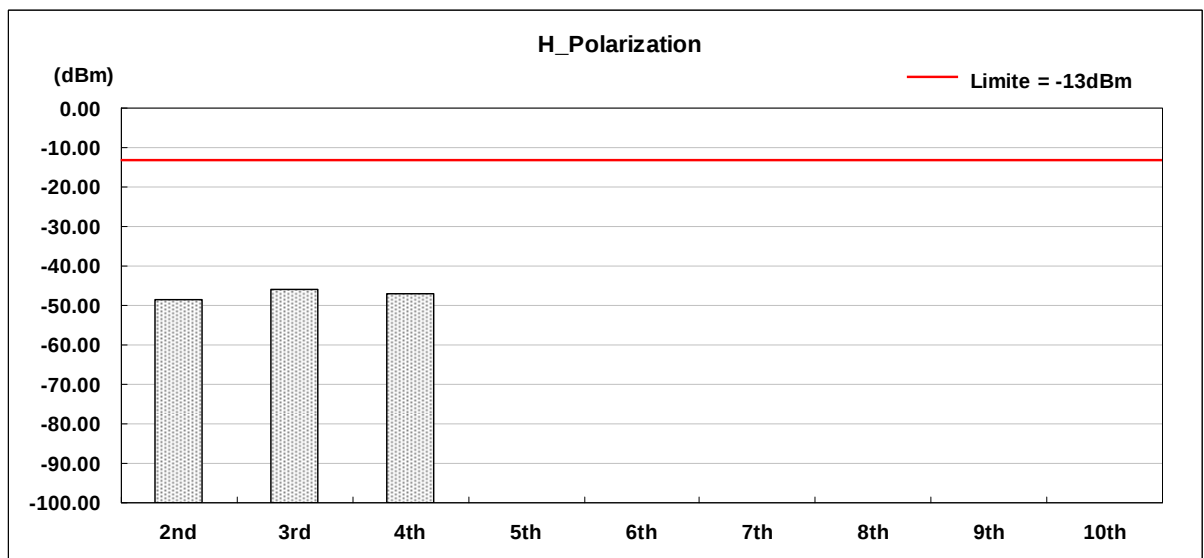
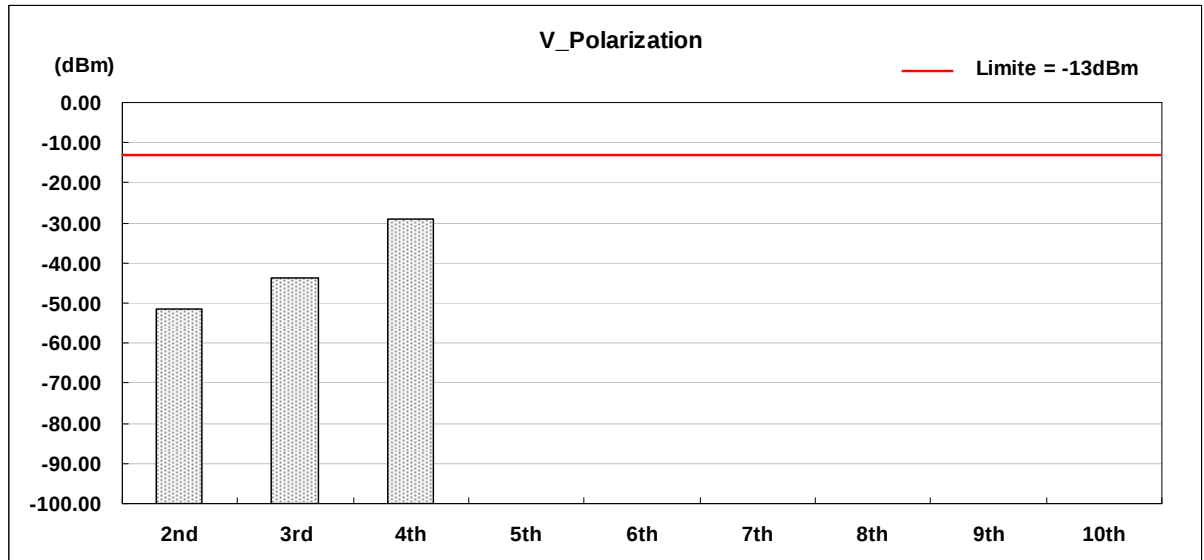
##### 4.6.4.1 GSM 850 Test Result

Applicant : Inventec Corporation  
 Model No : velocity 111  
 EUT : PDA PHONE  
 Test Mode : GSM 850 (Low CH128)  
 Test Date : 08/12/2008

| Harmonic | Frequency (MHz) | Polarization | FCC Max. Limit | S.G Power | Substitution Antenna Gain | Cable Loss | Peak Output Power |
|----------|-----------------|--------------|----------------|-----------|---------------------------|------------|-------------------|
|          |                 |              | (dBm)          | (dBm)     | (dBi)                     | (dBm)      | (dBm)             |
| 2nd      | 1648.8          | V            | -13            | -61.72    | 10.72                     | 0.56       | -51.56            |
| 3rd      | 2473.2          | V            | -13            | -53.84    | 10.66                     | 0.62       | -43.80            |
| 4th      | 3297.6          | V            | -13            | -39.22    | 10.78                     | 0.74       | -29.18            |
| 5th      | 4122.0          | V            | -13            | *         | *                         | *          | *                 |
| 6th      | 4946.4          | V            | -13            | *         | *                         | *          | *                 |
| 7th      | 5770.8          | V            | -13            | *         | *                         | *          | *                 |
| 8th      | 6595.2          | V            | -13            | *         | *                         | *          | *                 |
| 9th      | 7419.6          | V            | -13            | *         | *                         | *          | *                 |
| 10th     | 8244.0          | V            | -13            | *         | *                         | *          | *                 |
| 2nd      | 1648.8          | H            | -13            | -58.51    | 10.72                     | 0.56       | -48.35            |
| 3rd      | 2473.2          | H            | -13            | -56.01    | 10.66                     | 0.62       | -45.97            |
| 4th      | 3297.6          | H            | -13            | -57.10    | 10.78                     | 0.74       | -47.06            |
| 5th      | 4122.0          | H            | -13            | *         | *                         | *          | *                 |
| 6th      | 4946.4          | H            | -13            | *         | *                         | *          | *                 |
| 7th      | 5770.8          | H            | -13            | *         | *                         | *          | *                 |
| 8th      | 6595.2          | H            | -13            | *         | *                         | *          | *                 |
| 9th      | 7419.6          | H            | -13            | *         | *                         | *          | *                 |
| 10th     | 8244.0          | H            | -13            | *         | *                         | *          | *                 |

#### Notes:

1. \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4.  $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBd)} - \text{Cable Loss (dB)}$   
 $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBi)} - \text{Cable Loss (dB)}$



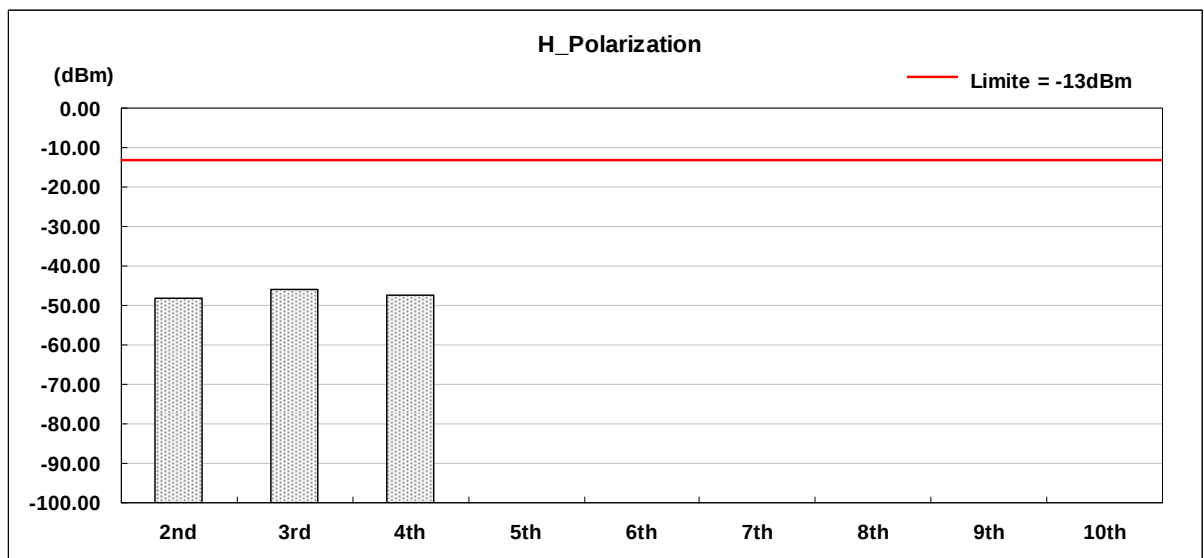
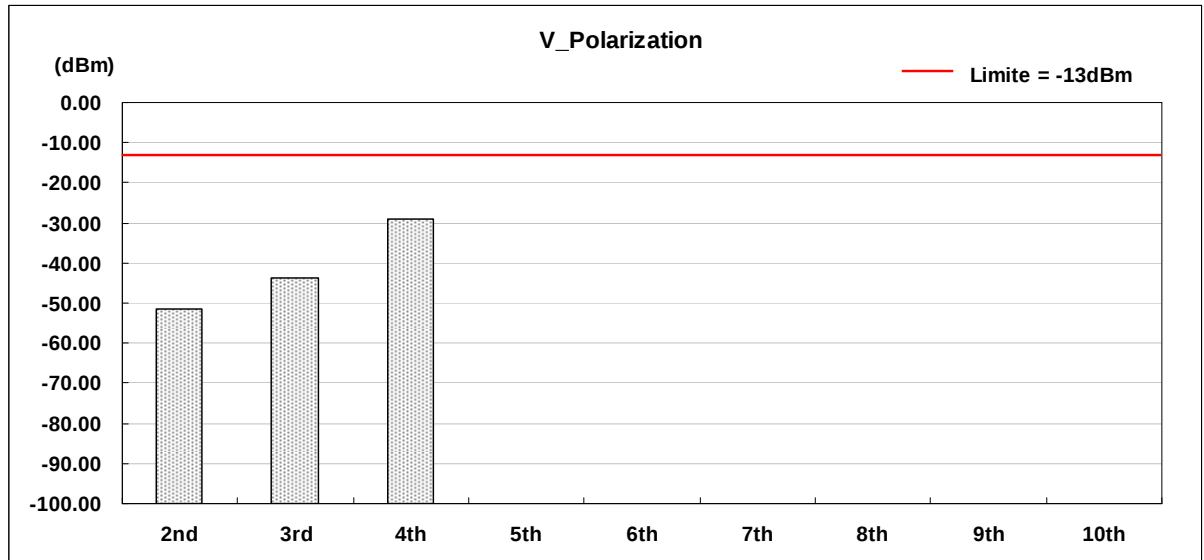


Applicant : Inventec Corporation  
 Model No : velocity 111  
 EUT : PDA PHONE  
 Test Mode : GSM 850 (Middle CH190)  
 Test Date : 08/12/2008

| Harmonic | Frequency (MHz) | Polarization | FCC Max. Limit | S.G Power | Substitution Antenna Gain | Cable Loss | Peak Output Power |
|----------|-----------------|--------------|----------------|-----------|---------------------------|------------|-------------------|
|          |                 |              | (dBm)          | (dBm)     | (dBi)                     | (dBm)      | (dBm)             |
| 2nd      | 1673.2          | V            | -13            | -61.55    | 10.72                     | 0.56       | -51.39            |
| 3rd      | 2509.8          | V            | -13            | -53.77    | 10.66                     | 0.62       | -43.73            |
| 4th      | 3346.4          | V            | -13            | -38.98    | 10.78                     | 0.74       | -28.94            |
| 5th      | 4183.0          | V            | -13            | *         | *                         | *          | *                 |
| 6th      | 5019.6          | V            | -13            | *         | *                         | *          | *                 |
| 7th      | 5856.2          | V            | -13            | *         | *                         | *          | *                 |
| 8th      | 6692.8          | V            | -13            | *         | *                         | *          | *                 |
| 9th      | 7529.4          | V            | -13            | *         | *                         | *          | *                 |
| 10th     | 8366.0          | V            | -13            | *         | *                         | *          | *                 |
| 2nd      | 1673.2          | H            | -13            | -58.49    | 10.72                     | 0.56       | -48.33            |
| 3rd      | 2509.8          | H            | -13            | -55.97    | 10.66                     | 0.62       | -45.93            |
| 4th      | 3346.4          | H            | -13            | -57.47    | 10.78                     | 0.74       | -47.43            |
| 5th      | 4183.0          | H            | -13            | *         | *                         | *          | *                 |
| 6th      | 5019.6          | H            | -13            | *         | *                         | *          | *                 |
| 7th      | 5856.2          | H            | -13            | *         | *                         | *          | *                 |
| 8th      | 6692.8          | H            | -13            | *         | *                         | *          | *                 |
| 9th      | 7529.4          | H            | -13            | *         | *                         | *          | *                 |
| 10th     | 8366.0          | H            | -13            | *         | *                         | *          | *                 |

Notes:

1. \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4. ERP = S.G Power (dBm) + Substitution Antenna Gain (dBd) - Cable Loss (dB)  
 ERP = S.G Power (dBm) + Substitution Antenna Gain (dBi) - Cable Loss (dB)



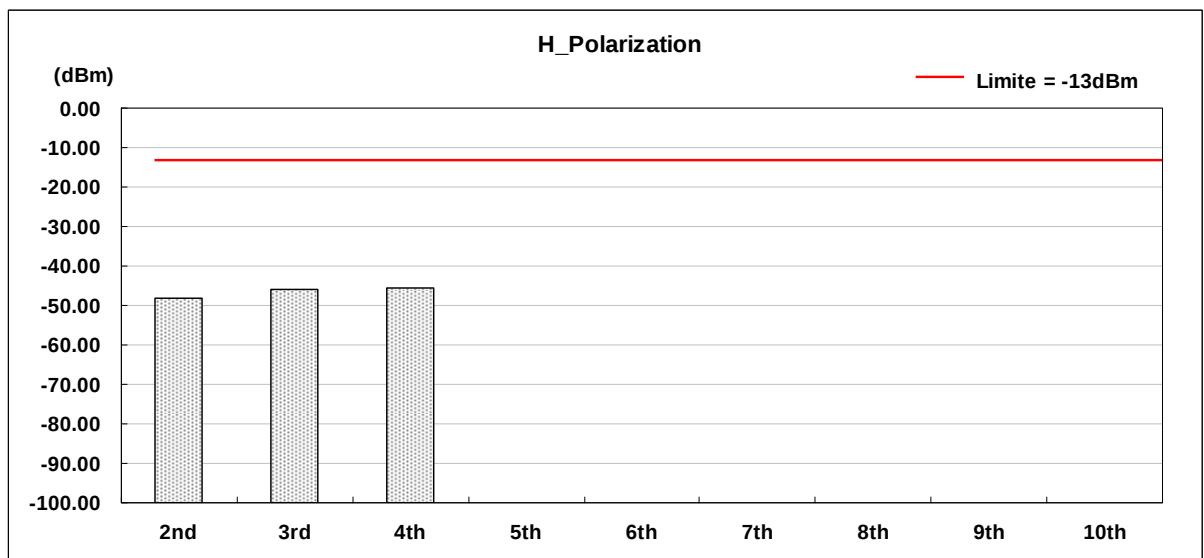
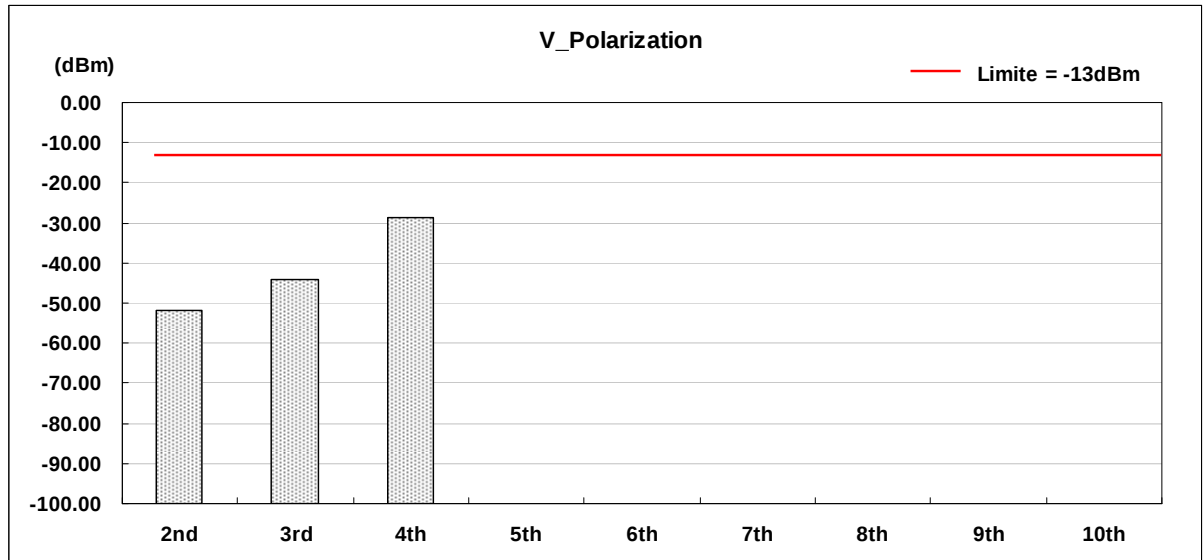


Applicant : Inventec Corporation  
 Model No : velocity 111  
 EUT : PDA PHONE  
 Test Mode : GSM 850 (High CH 251)  
 Test Date : 08/12/2008

| Harmonic | Frequency (MHz) | Polarization | FCC Max. Limit | S.G Power | Substitution Antenna Gain | Cable Loss | Peak Output Power |
|----------|-----------------|--------------|----------------|-----------|---------------------------|------------|-------------------|
|          |                 |              | (dBm)          | (dBm)     | (dBi)                     | (dBm)      | (dBm)             |
| 2nd      | 1697.6          | V            | -13            | -61.99    | 10.72                     | 0.56       | -51.83            |
| 3rd      | 2546.4          | V            | -13            | -54.07    | 10.66                     | 0.62       | -44.03            |
| 4th      | 3395.2          | V            | -13            | -38.84    | 10.78                     | 0.74       | -28.80            |
| 5th      | 4244.0          | V            | -13            | *         | *                         | *          | *                 |
| 6th      | 5092.8          | V            | -13            | *         | *                         | *          | *                 |
| 7th      | 5941.6          | V            | -13            | *         | *                         | *          | *                 |
| 8th      | 6790.4          | V            | -13            | *         | *                         | *          | *                 |
| 9th      | 7639.2          | V            | -13            | *         | *                         | *          | *                 |
| 10th     | 8488.0          | V            | -13            | *         | *                         | *          | *                 |
| 2nd      | 1697.6          | H            | -13            | -58.38    | 10.72                     | 0.56       | -48.22            |
| 3rd      | 2546.4          | H            | -13            | -56.15    | 10.66                     | 0.62       | -46.11            |
| 4th      | 3395.2          | H            | -13            | -55.78    | 10.78                     | 0.74       | -45.74            |
| 5th      | 4244.0          | H            | -13            | *         | *                         | *          | *                 |
| 6th      | 5092.8          | H            | -13            | *         | *                         | *          | *                 |
| 7th      | 5941.6          | H            | -13            | *         | *                         | *          | *                 |
| 8th      | 6790.4          | H            | -13            | *         | *                         | *          | *                 |
| 9th      | 7639.2          | H            | -13            | *         | *                         | *          | *                 |
| 10th     | 8488.0          | H            | -13            | *         | *                         | *          | *                 |

Notes:

1. \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4. ERP = S.G Power (dBm) + Substitution Antenna Gain (dBd) - Cable Loss (dB)  
 ERP = S.G Power (dBm) + Substitution Antenna Gain (dBi) - Cable Loss (dB)





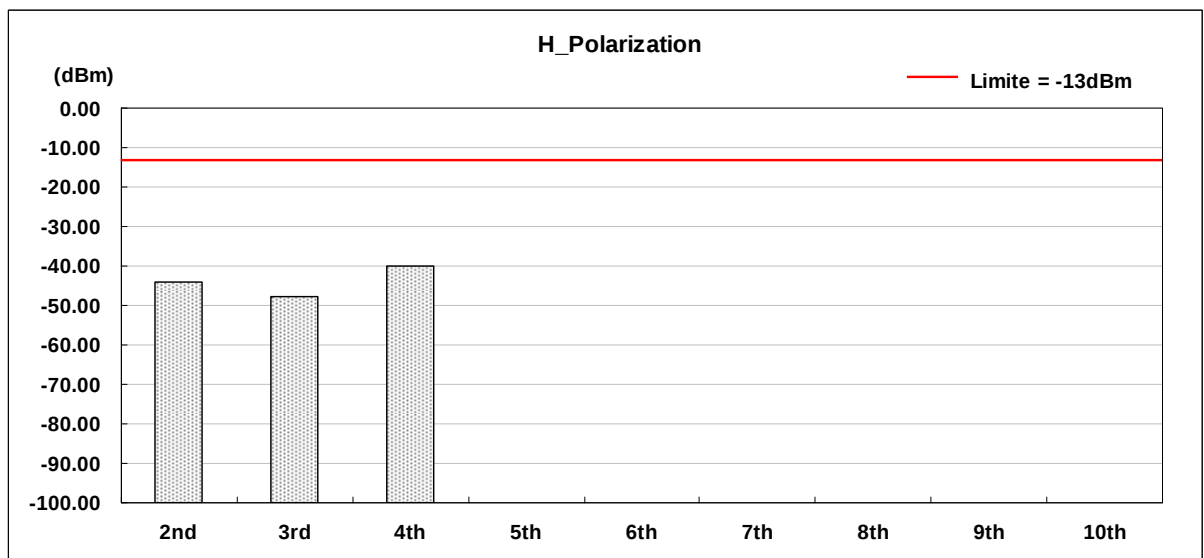
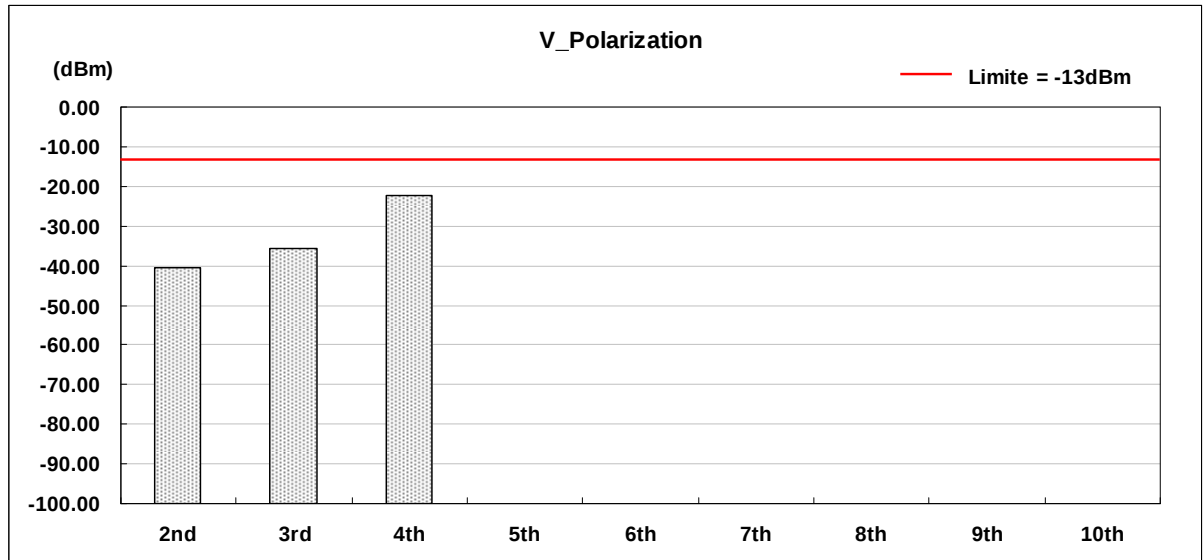
#### 4.6.4.2 PCS 1900 Test Result

Applicant : Inventec Corporation  
 Model No : velocity 111  
 EUT : PDA PHONE  
 Test Mode : PCS 1900 (Low CH512)  
 Test Date : 08/12/2008

| Harmonic | Frequency (MHz) | Polarization | FCC Max. Limit | S.G Power | Substitution Antenna Gain | Cable Loss | Peak Output Power |
|----------|-----------------|--------------|----------------|-----------|---------------------------|------------|-------------------|
|          |                 |              | (dBm)          | (dBm)     | (dBi)                     | (dBm)      | (dBm)             |
| 2nd      | 3700.4          | V            | -13            | -50.63    | 10.72                     | 0.56       | -40.47            |
| 3rd      | 5550.6          | V            | -13            | -45.80    | 10.66                     | 0.62       | -35.76            |
| 4th      | 7400.8          | V            | -13            | -32.40    | 10.78                     | 0.74       | -22.36            |
| 5th      | 9251.0          | V            | -13            | *         | *                         | *          | *                 |
| 6th      | 11101.2         | V            | -13            | *         | *                         | *          | *                 |
| 7th      | 12951.4         | V            | -13            | *         | *                         | *          | *                 |
| 8th      | 14801.6         | V            | -13            | *         | *                         | *          | *                 |
| 9th      | 16651.8         | V            | -13            | *         | *                         | *          | *                 |
| 10th     | 18502.0         | V            | -13            | *         | *                         | *          | *                 |
| 2nd      | 3700.4          | H            | -13            | -54.40    | 10.72                     | 0.56       | -44.24            |
| 3rd      | 5550.6          | H            | -13            | -57.80    | 10.66                     | 0.62       | -47.76            |
| 4th      | 7400.8          | H            | -13            | -49.86    | 10.78                     | 0.74       | -39.82            |
| 5th      | 9251.0          | H            | -13            | *         | *                         | *          | *                 |
| 6th      | 11101.2         | H            | -13            | *         | *                         | *          | *                 |
| 7th      | 12951.4         | H            | -13            | *         | *                         | *          | *                 |
| 8th      | 14801.6         | H            | -13            | *         | *                         | *          | *                 |
| 9th      | 16651.8         | H            | -13            | *         | *                         | *          | *                 |
| 10th     | 18502.0         | H            | -13            | *         | *                         | *          | *                 |

#### Notes:

1. \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4.  $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBd)} - \text{Cable Loss (dB)}$   
 $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBi)} - \text{Cable Loss (dB)}$



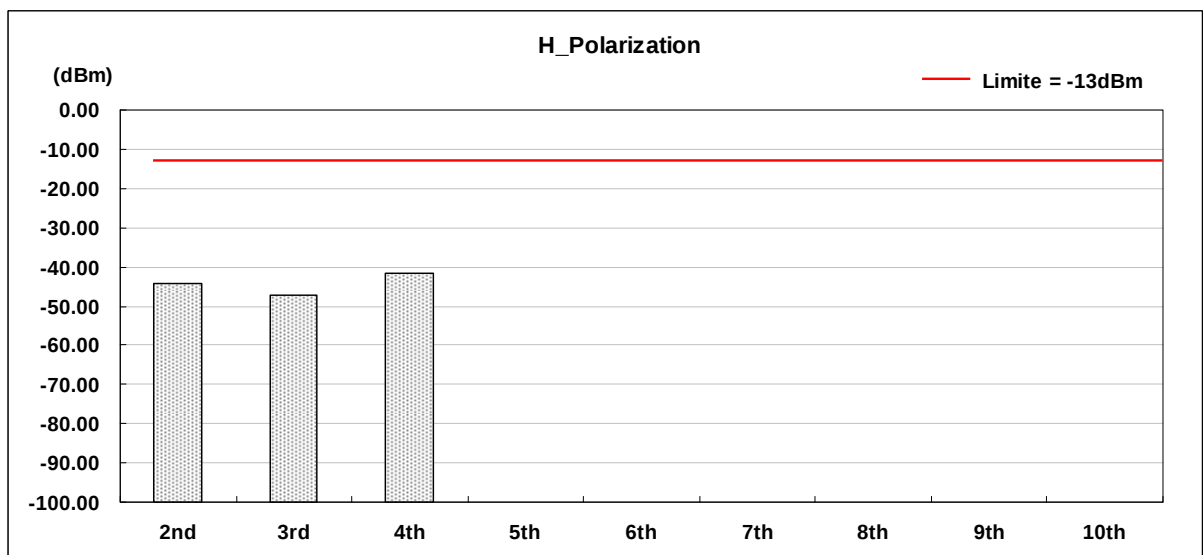
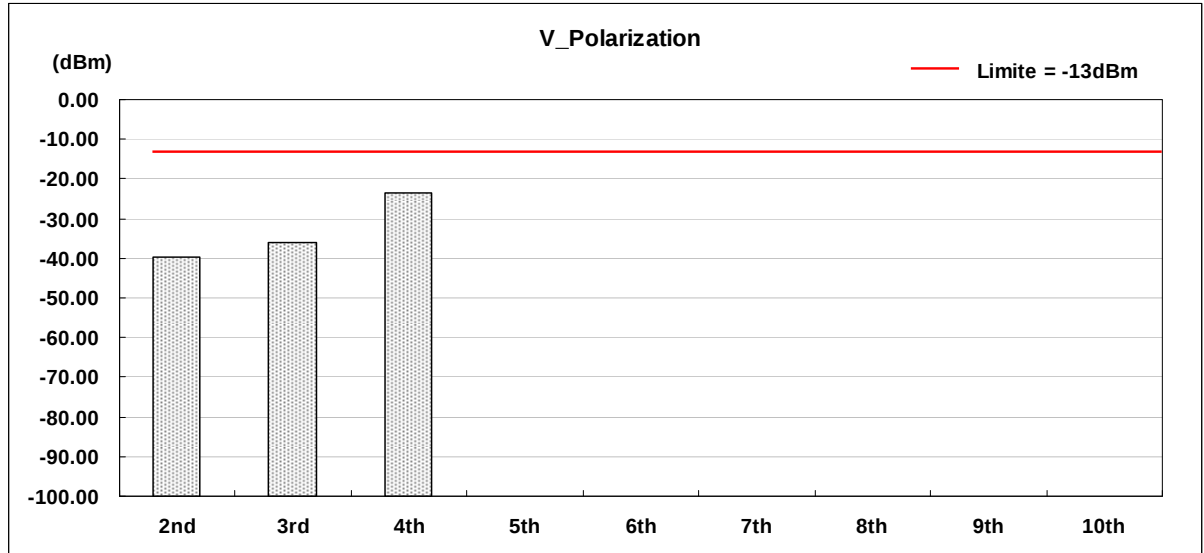


Applicant : Inventec Corporation  
 Model No : velocity 111  
 EUT : PDA PHONE  
 Test Mode : PCS 1900 (Middle CH661)  
 Test Date : 08/12/2008

| Harmonic | Frequency (MHz) | Polarization | FCC Max. Limit | S.G Power | Substitution Antenna Gain | Cable Loss | Peak Output Power |
|----------|-----------------|--------------|----------------|-----------|---------------------------|------------|-------------------|
|          |                 |              | (dBm)          | (dBm)     | (dBi)                     | (dBm)      | (dBm)             |
| 2nd      | 3760.0          | V            | -13            | -49.74    | 10.72                     | 0.56       | -39.58            |
| 3rd      | 5640.0          | V            | -13            | -46.12    | 10.66                     | 0.62       | -36.08            |
| 4th      | 7520.0          | V            | -13            | -33.60    | 10.78                     | 0.74       | -23.56            |
| 5th      | 9400.0          | V            | -13            | *         | *                         | *          | *                 |
| 6th      | 11280.0         | V            | -13            | *         | *                         | *          | *                 |
| 7th      | 13160.0         | V            | -13            | *         | *                         | *          | *                 |
| 8th      | 15040.0         | V            | -13            | *         | *                         | *          | *                 |
| 9th      | 16920.0         | V            | -13            | *         | *                         | *          | *                 |
| 10th     | 18800.0         | V            | -13            | *         | *                         | *          | *                 |
| 2nd      | 3760.0          | H            | -13            | -54.24    | 10.72                     | 0.56       | -44.08            |
| 3rd      | 5640.0          | H            | -13            | -57.19    | 10.66                     | 0.62       | -47.15            |
| 4th      | 7520.0          | H            | -13            | -51.61    | 10.78                     | 0.74       | -41.57            |
| 5th      | 9400.0          | H            | -13            | *         | *                         | *          | *                 |
| 6th      | 11280.0         | H            | -13            | *         | *                         | *          | *                 |
| 7th      | 13160.0         | H            | -13            | *         | *                         | *          | *                 |
| 8th      | 15040.0         | H            | -13            | *         | *                         | *          | *                 |
| 9th      | 16920.0         | H            | -13            | *         | *                         | *          | *                 |
| 10th     | 18800.0         | H            | -13            | *         | *                         | *          | *                 |

Notes:

1. \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4. ERP = S.G Power (dBm) + Substitution Antenna Gain (dBd) - Cable Loss (dB)  
 ERP = S.G Power (dBm) + Substitution Antenna Gain (dBi) - Cable Loss (dB)



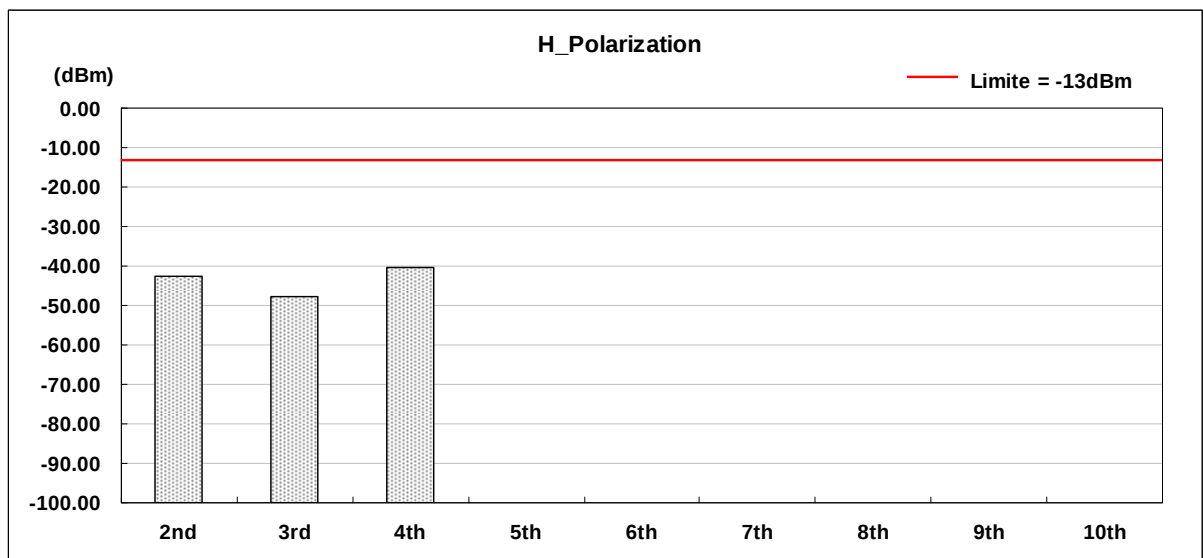
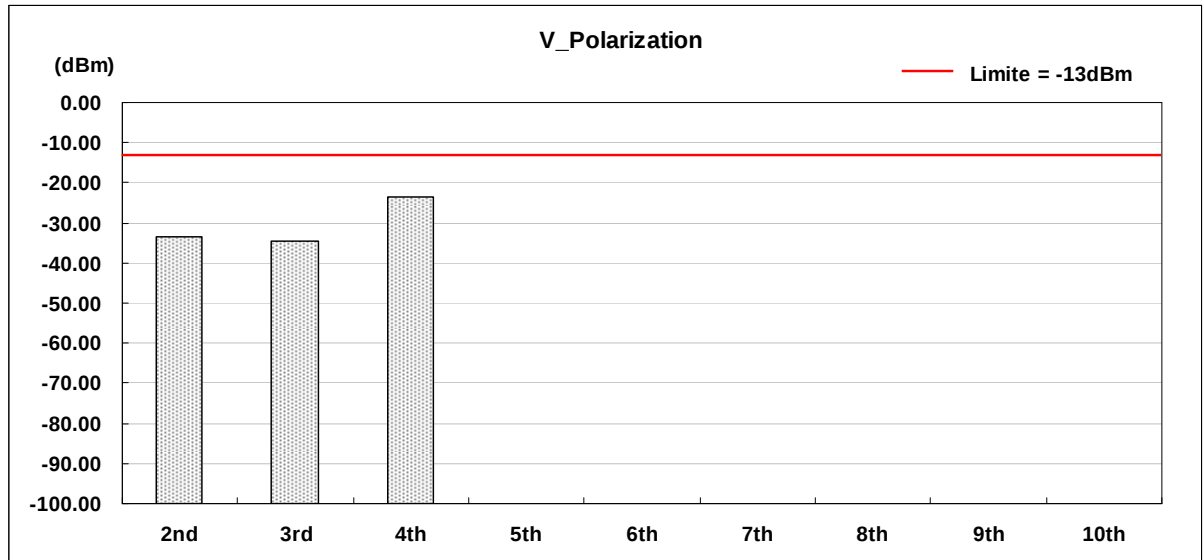


Applicant : Inventec Corporation  
 Model No : velocity 111  
 EUT : PDA PHONE  
 Test Mode : PCS 1900 (High CH 810)  
 Test Date : 08/12/2008

| Harmonic | Frequency (MHz) | Polarization | FCC Max. Limit | S.G Power | Substitution Antenna Gain | Cable Loss | Peak Output Power |
|----------|-----------------|--------------|----------------|-----------|---------------------------|------------|-------------------|
|          |                 |              | (dBm)          | (dBm)     | (dBi)                     | (dBm)      | (dBm)             |
| 2nd      | 3819.6          | V            | -13            | -43.50    | 10.72                     | 0.56       | -33.34            |
| 3rd      | 5729.4          | V            | -13            | -44.71    | 10.66                     | 0.62       | -34.67            |
| 4th      | 7639.2          | V            | -13            | -33.71    | 10.78                     | 0.74       | -23.67            |
| 5th      | 9549.0          | V            | -13            | *         | *                         | *          | *                 |
| 6th      | 11458.8         | V            | -13            | *         | *                         | *          | *                 |
| 7th      | 13368.6         | V            | -13            | *         | *                         | *          | *                 |
| 8th      | 15278.4         | V            | -13            | *         | *                         | *          | *                 |
| 9th      | 17188.2         | V            | -13            | *         | *                         | *          | *                 |
| 10th     | 19098.0         | V            | -13            | *         | *                         | *          | *                 |
| 2nd      | 3819.6          | H            | -13            | -52.74    | 10.72                     | 0.56       | -42.58            |
| 3rd      | 5729.4          | H            | -13            | -57.87    | 10.66                     | 0.62       | -47.83            |
| 4th      | 7639.2          | H            | -13            | -50.50    | 10.78                     | 0.74       | -40.46            |
| 5th      | 9549.0          | H            | -13            | *         | *                         | *          | *                 |
| 6th      | 11458.8         | H            | -13            | *         | *                         | *          | *                 |
| 7th      | 13368.6         | H            | -13            | *         | *                         | *          | *                 |
| 8th      | 15278.4         | H            | -13            | *         | *                         | *          | *                 |
| 9th      | 17188.2         | H            | -13            | *         | *                         | *          | *                 |
| 10th     | 19098.0         | H            | -13            | *         | *                         | *          | *                 |

Notes:

1. \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4. ERP = S.G Power (dBm) + Substitution Antenna Gain (dBd) - Cable Loss (dB)  
 ERP = S.G Power (dBm) + Substitution Antenna Gain (dBi) - Cable Loss (dB)





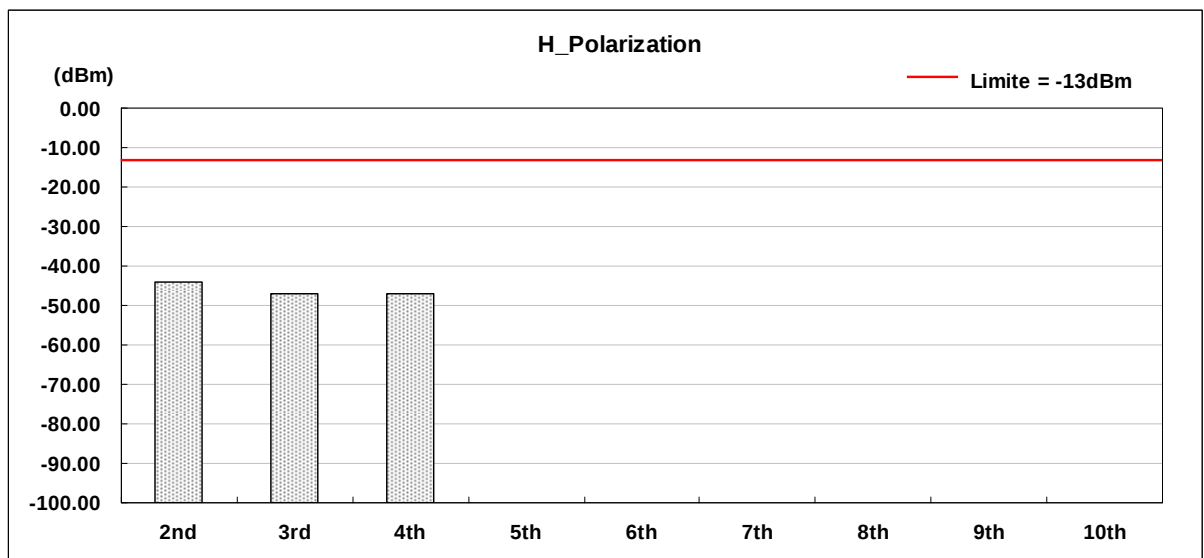
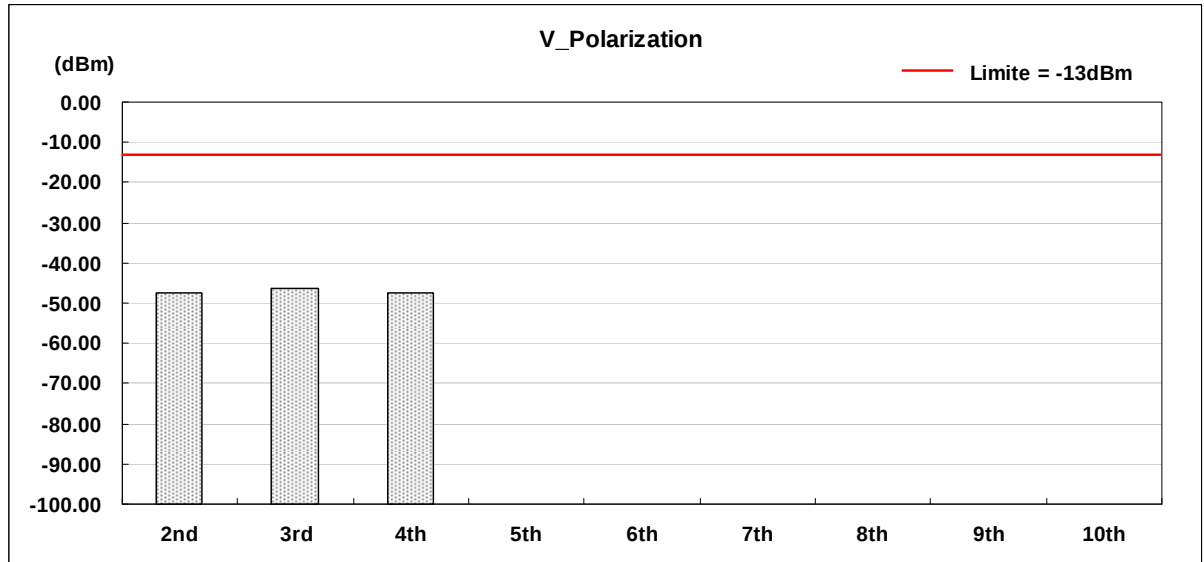
#### 4.6.4.3 WCDMA Band V Test Result

Applicant : Inventec Corporation  
 Model No : velocity 111  
 EUT : PDA PHONE  
 Test Mode : WCDMA Band V (Low CH4132)  
 Test Date : 08/12/2008

| Harmonic | Frequency (MHz) | Polarization | FCC Max. Limit | S.G Power | Substitution Antenna Gain | Cable Loss | Peak Output Power |
|----------|-----------------|--------------|----------------|-----------|---------------------------|------------|-------------------|
|          |                 |              | (dBm)          | (dBm)     | (dBi)                     | (dBm)      | (dBm)             |
| 2nd      | 1652.8          | V            | -13            | -57.72    | 10.74                     | 0.59       | -47.57            |
| 3rd      | 2479.2          | V            | -13            | -56.36    | 10.68                     | 0.63       | -46.31            |
| 4th      | 3305.6          | V            | -13            | -57.32    | 10.80                     | 0.78       | -47.30            |
| 5th      | 4132.0          | V            | -13            | *         | *                         | *          | *                 |
| 6th      | 4958.4          | V            | -13            | *         | *                         | *          | *                 |
| 7th      | 5784.8          | V            | -13            | *         | *                         | *          | *                 |
| 8th      | 6611.2          | V            | -13            | *         | *                         | *          | *                 |
| 9th      | 7437.6          | V            | -13            | *         | *                         | *          | *                 |
| 10th     | 8264.0          | V            | -13            | *         | *                         | *          | *                 |
| 2nd      | 1652.8          | H            | -13            | -54.35    | 10.74                     | 0.59       | -44.20            |
| 3rd      | 2479.2          | H            | -13            | -57.12    | 10.68                     | 0.63       | -47.07            |
| 4th      | 3305.6          | H            | -13            | -57.09    | 10.80                     | 0.78       | -47.07            |
| 5th      | 4132.0          | H            | -13            | *         | *                         | *          | *                 |
| 6th      | 4958.4          | H            | -13            | *         | *                         | *          | *                 |
| 7th      | 5784.8          | H            | -13            | *         | *                         | *          | *                 |
| 8th      | 6611.2          | H            | -13            | *         | *                         | *          | *                 |
| 9th      | 7437.6          | H            | -13            | *         | *                         | *          | *                 |
| 10th     | 8264.0          | H            | -13            | *         | *                         | *          | *                 |

#### Notes:

- \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
- Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
- The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
- ERP = S.G Power (dBm) + Substitution Antenna Gain (dBd) - Cable Loss (dB)  
 ERP = S.G Power (dBm) + Substitution Antenna Gain (dBi) - Cable Loss (dB)



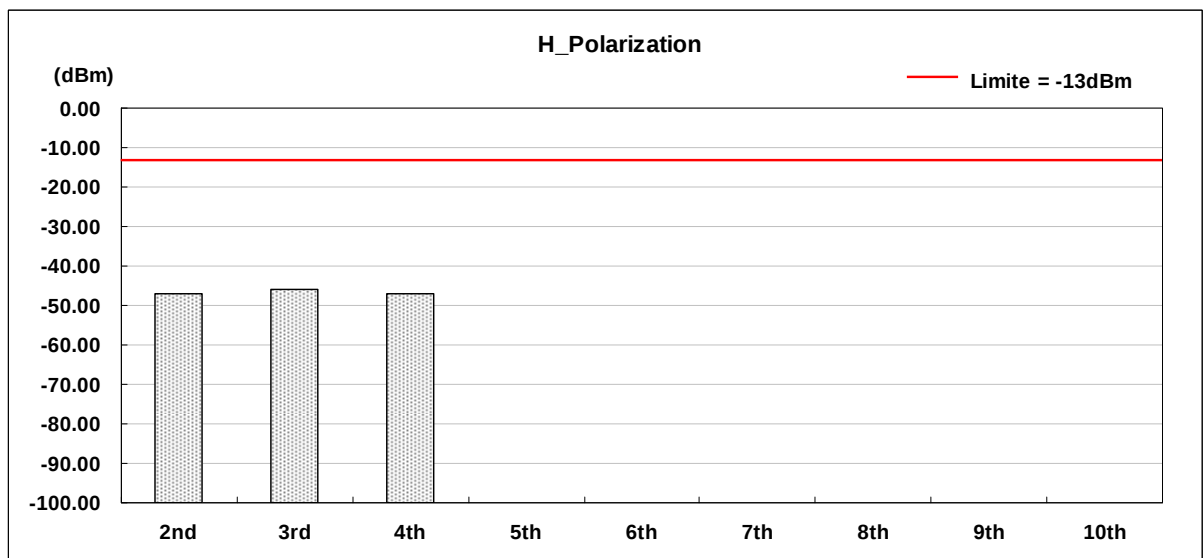
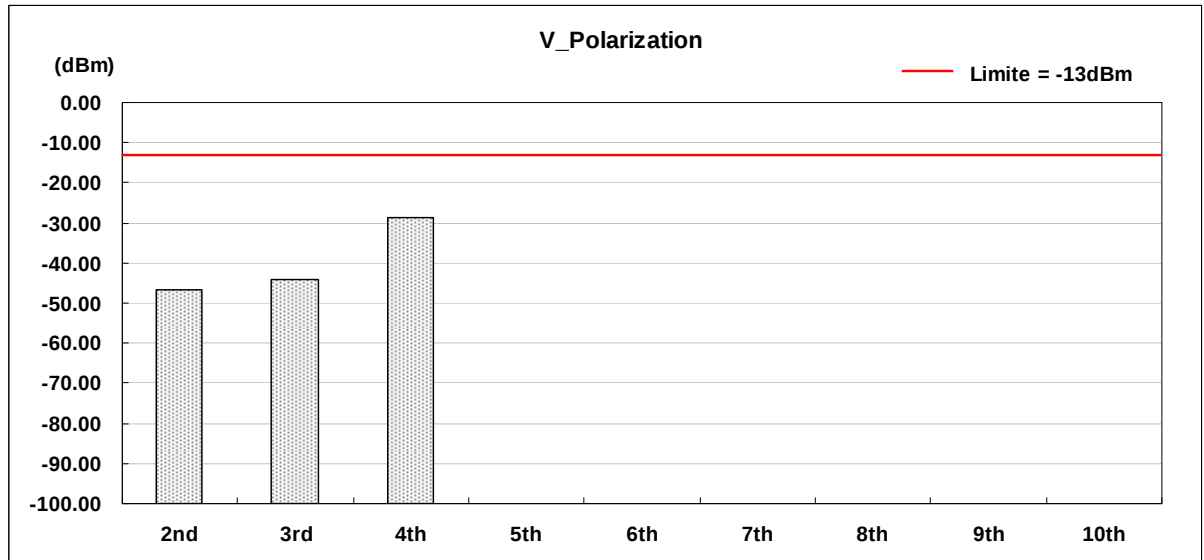


Applicant : Inventec Corporation  
 Model No : velocity 111  
 EUT : PDA PHONE  
 Test Mode : WCDMA Band V (Middle CH4182)  
 Test Date : 08/12/2008

| Harmonic | Frequency (MHz) | Polarization | FCC Max. Limit | S.G Power | Substitution Antenna Gain | Cable Loss | Peak Output Power |
|----------|-----------------|--------------|----------------|-----------|---------------------------|------------|-------------------|
|          |                 |              | (dBm)          | (dBm)     | (dBi)                     | (dBm)      | (dBm)             |
| 2nd      | 1693.2          | V            | -13            | -56.78    | 10.74                     | 0.59       | -46.63            |
| 3rd      | 2539.8          | V            | -13            | -54.21    | 10.68                     | 0.63       | -44.16            |
| 4th      | 3386.4          | V            | -13            | -38.83    | 10.80                     | 0.78       | -28.81            |
| 5th      | 4233.0          | V            | -13            | *         | *                         | *          | *                 |
| 6th      | 5079.6          | V            | -13            | *         | *                         | *          | *                 |
| 7th      | 5926.2          | V            | -13            | *         | *                         | *          | *                 |
| 8th      | 6772.8          | V            | -13            | *         | *                         | *          | *                 |
| 9th      | 7619.4          | V            | -13            | *         | *                         | *          | *                 |
| 10th     | 8466.0          | V            | -13            | *         | *                         | *          | *                 |
| 2nd      | 1693.2          | H            | -13            | -57.07    | 10.74                     | 0.59       | -46.92            |
| 3rd      | 2539.8          | H            | -13            | -55.95    | 10.68                     | 0.63       | -45.90            |
| 4th      | 3386.4          | H            | -13            | -57.11    | 10.80                     | 0.78       | -47.09            |
| 5th      | 4233.0          | H            | -13            | *         | *                         | *          | *                 |
| 6th      | 5079.6          | H            | -13            | *         | *                         | *          | *                 |
| 7th      | 5926.2          | H            | -13            | *         | *                         | *          | *                 |
| 8th      | 6772.8          | H            | -13            | *         | *                         | *          | *                 |
| 9th      | 7619.4          | H            | -13            | *         | *                         | *          | *                 |
| 10th     | 8466.0          | H            | -13            | *         | *                         | *          | *                 |

Notes:

1. \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4. ERP = S.G Power (dBm) + Substitution Antenna Gain (dBd) - Cable Loss (dB)  
 ERP = S.G Power (dBm) + Substitution Antenna Gain (dBi) - Cable Loss (dB)



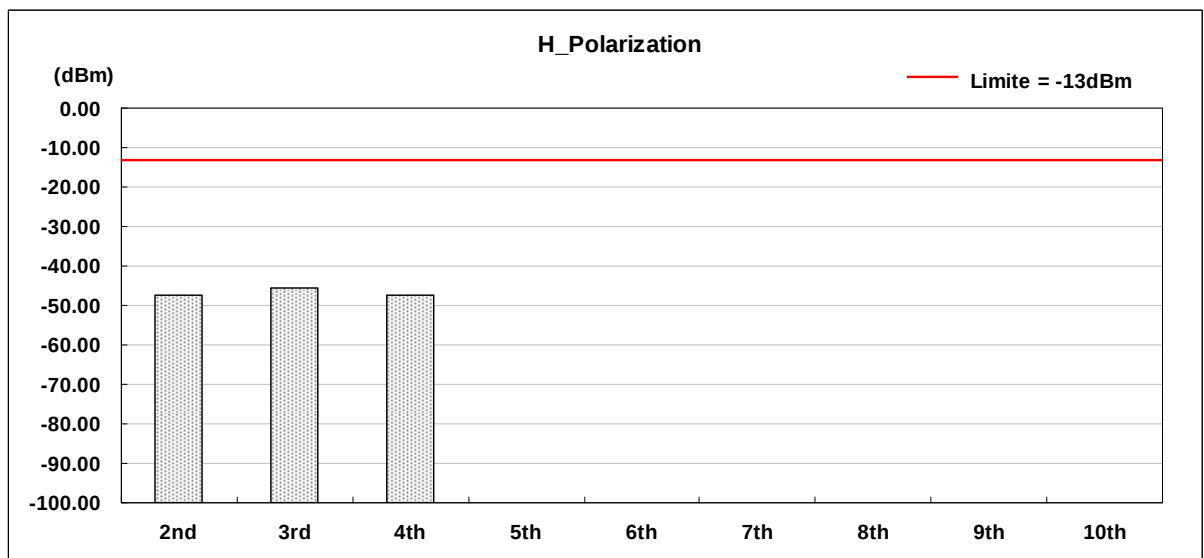
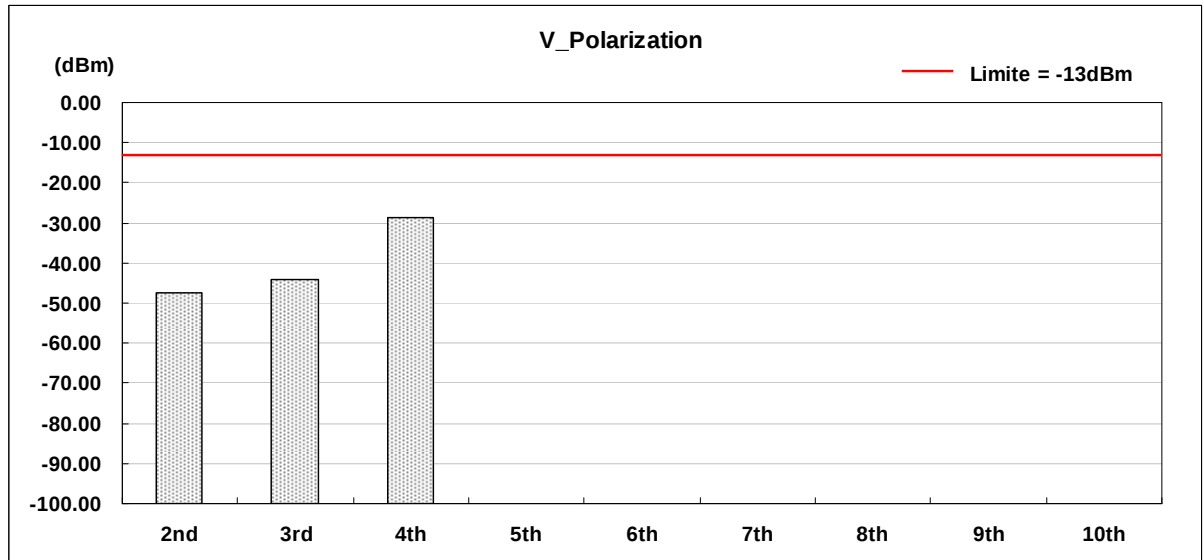


Applicant : Inventec Corporation  
 Model No : velocity 111  
 EUT : PDA PHONE  
 Test Mode : WCDMA Band V (High CH 4233)  
 Test Date : 08/12/2008

| Harmonic | Frequency (MHz) | Polarization | FCC Max. Limit | S.G Power | Substitution Antenna Gain | Cable Loss | Peak Output Power |
|----------|-----------------|--------------|----------------|-----------|---------------------------|------------|-------------------|
|          |                 |              | (dBm)          | (dBm)     | (dBi)                     | (dBm)      | (dBm)             |
| 2nd      | 1693.2          | V            | -13            | -57.58    | 10.74                     | 0.59       | -47.43            |
| 3rd      | 2539.8          | V            | -13            | -54.35    | 10.68                     | 0.63       | -44.30            |
| 4th      | 3386.4          | V            | -13            | -38.85    | 10.80                     | 0.78       | -28.83            |
| 5th      | 4233.0          | V            | -13            | *         | *                         | *          | *                 |
| 6th      | 5079.6          | V            | -13            | *         | *                         | *          | *                 |
| 7th      | 5926.2          | V            | -13            | *         | *                         | *          | *                 |
| 8th      | 6772.8          | V            | -13            | *         | *                         | *          | *                 |
| 9th      | 7619.4          | V            | -13            | *         | *                         | *          | *                 |
| 10th     | 8466.0          | V            | -13            | *         | *                         | *          | *                 |
| 2nd      | 1693.2          | H            | -13            | -57.46    | 10.74                     | 0.59       | -47.31            |
| 3rd      | 2539.8          | H            | -13            | -55.64    | 10.68                     | 0.63       | -45.59            |
| 4th      | 3386.4          | H            | -13            | -57.27    | 10.80                     | 0.78       | -47.25            |
| 5th      | 4233.0          | H            | -13            | *         | *                         | *          | *                 |
| 6th      | 5079.6          | H            | -13            | *         | *                         | *          | *                 |
| 7th      | 5926.2          | H            | -13            | *         | *                         | *          | *                 |
| 8th      | 6772.8          | H            | -13            | *         | *                         | *          | *                 |
| 9th      | 7619.4          | H            | -13            | *         | *                         | *          | *                 |
| 10th     | 8466.0          | H            | -13            | *         | *                         | *          | *                 |

Notes:

1. \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4. ERP = S.G Power (dBm) + Substitution Antenna Gain (dBd) - Cable Loss (dB)  
 ERP = S.G Power (dBm) + Substitution Antenna Gain (dBi) - Cable Loss (dB)





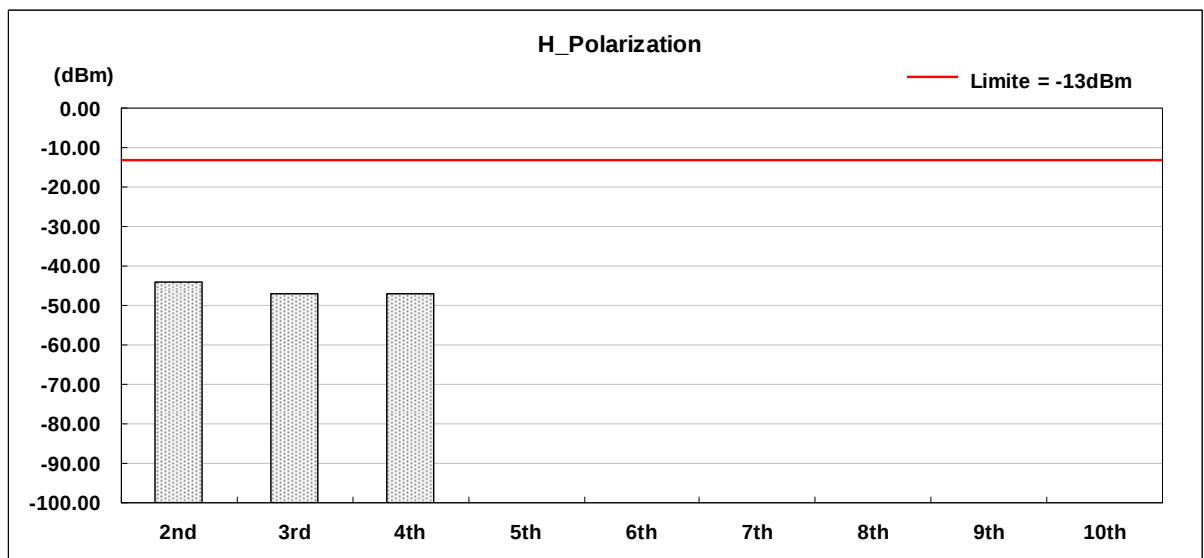
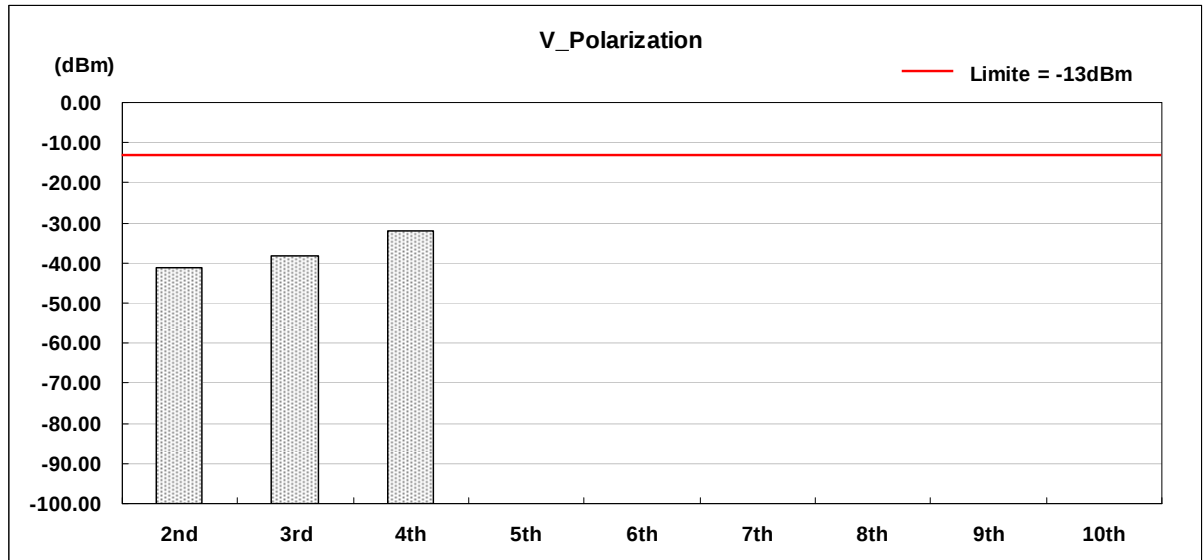
#### 4.6.4.4 WCDMA Band II Test Result

Applicant : Inventec Corporation  
 Model No : velocity 111  
 EUT : PDA PHONE  
 Test Mode : WCDMA Band II (Low CH9262)  
 Test Date : 08/12/2008

| Harmonic | Frequency (MHz) | Polarization | FCC Max. Limit | S.G Power | Substitution Antenna Gain | Cable Loss | Peak Output Power |
|----------|-----------------|--------------|----------------|-----------|---------------------------|------------|-------------------|
|          |                 |              | (dBm)          | (dBm)     | (dBi)                     | (dBm)      | (dBm)             |
| 2nd      | 3704.8          | V            | -13            | -51.54    | 10.79                     | 0.58       | -41.33            |
| 3rd      | 5557.2          | V            | -13            | -48.44    | 10.71                     | 0.63       | -38.36            |
| 4th      | 7409.6          | V            | -13            | -41.86    | 10.81                     | 0.78       | -31.83            |
| 5th      | 9262.0          | V            | -13            | *         | *                         | *          | *                 |
| 6th      | 11114.4         | V            | -13            | *         | *                         | *          | *                 |
| 7th      | 12966.8         | V            | -13            | *         | *                         | *          | *                 |
| 8th      | 14819.2         | V            | -13            | *         | *                         | *          | *                 |
| 9th      | 16671.6         | V            | -13            | *         | *                         | *          | *                 |
| 10th     | 18524.0         | V            | -13            | *         | *                         | *          | *                 |
| 2nd      | 3704.8          | H            | -13            | -54.41    | 10.79                     | 0.58       | -44.20            |
| 3rd      | 5557.2          | H            | -13            | -57.15    | 10.71                     | 0.63       | -47.07            |
| 4th      | 7409.6          | H            | -13            | -57.10    | 10.81                     | 0.78       | -47.07            |
| 5th      | 9262.0          | H            | -13            | *         | *                         | *          | *                 |
| 6th      | 11114.4         | H            | -13            | *         | *                         | *          | *                 |
| 7th      | 12966.8         | H            | -13            | *         | *                         | *          | *                 |
| 8th      | 14819.2         | H            | -13            | *         | *                         | *          | *                 |
| 9th      | 16671.6         | H            | -13            | *         | *                         | *          | *                 |
| 10th     | 18524.0         | H            | -13            | *         | *                         | *          | *                 |

#### Notes:

1. \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
2. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
4.  $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBd)} - \text{Cable Loss (dB)}$   
 $ERP = S.G \text{ Power (dBm)} + \text{Substitution Antenna Gain (dBi)} - \text{Cable Loss (dB)}$



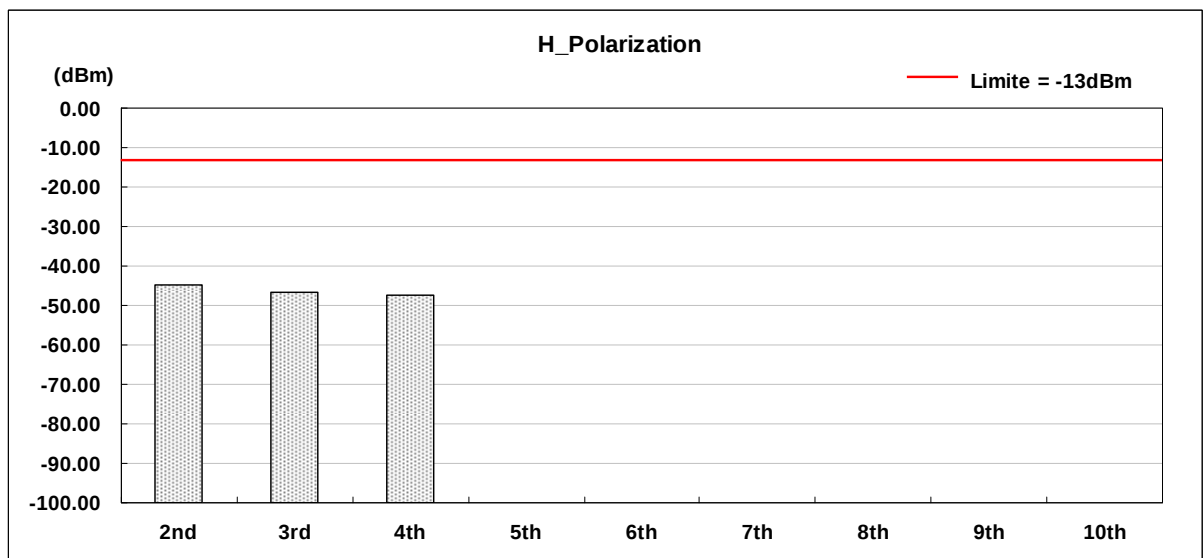
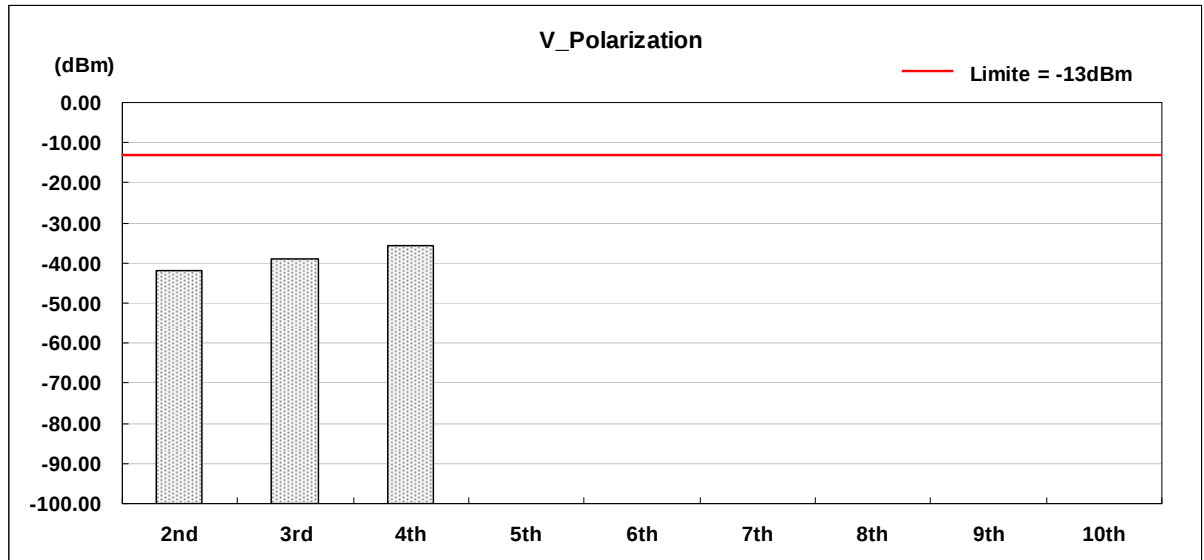


Applicant : Inventec Corporation  
 Model No : velocity 111  
 EUT : PDA PHONE  
 Test Mode : WCDMA Band II (Middle CH9400)  
 Test Date : 08/12/2008

| Harmonic | Frequency (MHz) | Polarization | FCC Max. Limit | S.G Power | Substitution Antenna Gain | Cable Loss | Peak Output Power |
|----------|-----------------|--------------|----------------|-----------|---------------------------|------------|-------------------|
|          |                 |              | (dBm)          | (dBm)     | (dBi)                     | (dBm)      | (dBm)             |
| 2nd      | 3760.0          | V            | -13            | -52.21    | 10.79                     | 0.58       | -42.00            |
| 3rd      | 5640.0          | V            | -13            | -49.12    | 10.71                     | 0.63       | -39.04            |
| 4th      | 7520.0          | V            | -13            | -45.78    | 10.81                     | 0.78       | -35.75            |
| 5th      | 9400.0          | V            | -13            | *         | *                         | *          | *                 |
| 6th      | 11280.0         | V            | -13            | *         | *                         | *          | *                 |
| 7th      | 13160.0         | V            | -13            | *         | *                         | *          | *                 |
| 8th      | 15040.0         | V            | -13            | *         | *                         | *          | *                 |
| 9th      | 16920.0         | V            | -13            | *         | *                         | *          | *                 |
| 10th     | 18800.0         | V            | -13            | *         | *                         | *          | *                 |
| 2nd      | 3760.0          | H            | -13            | -54.96    | 10.79                     | 0.58       | -44.75            |
| 3rd      | 5640.0          | H            | -13            | -56.65    | 10.71                     | 0.63       | -46.57            |
| 4th      | 7520.0          | H            | -13            | -57.39    | 10.81                     | 0.78       | -47.36            |
| 5th      | 9400.0          | H            | -13            | *         | *                         | *          | *                 |
| 6th      | 11280.0         | H            | -13            | *         | *                         | *          | *                 |
| 7th      | 13160.0         | H            | -13            | *         | *                         | *          | *                 |
| 8th      | 15040.0         | H            | -13            | *         | *                         | *          | *                 |
| 9th      | 16920.0         | H            | -13            | *         | *                         | *          | *                 |
| 10th     | 18800.0         | H            | -13            | *         | *                         | *          | *                 |

Notes:

5. \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
6. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
7. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
8. ERP = S.G Power (dBm) + Substitution Antenna Gain (dBd) - Cable Loss (dB)  
 ERP = S.G Power (dBm) + Substitution Antenna Gain (dBi) - Cable Loss (dB)



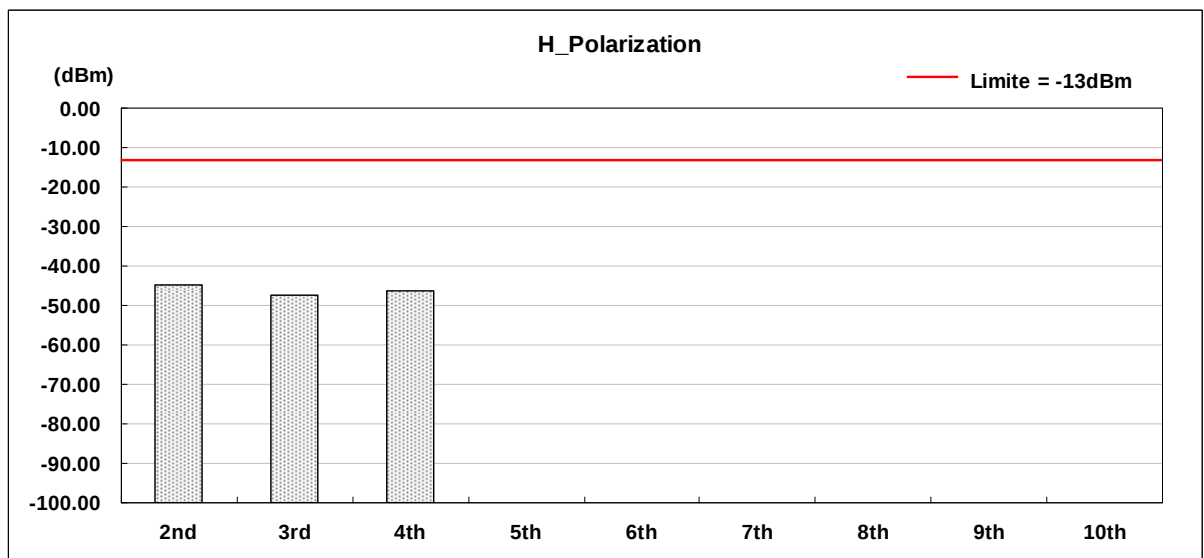
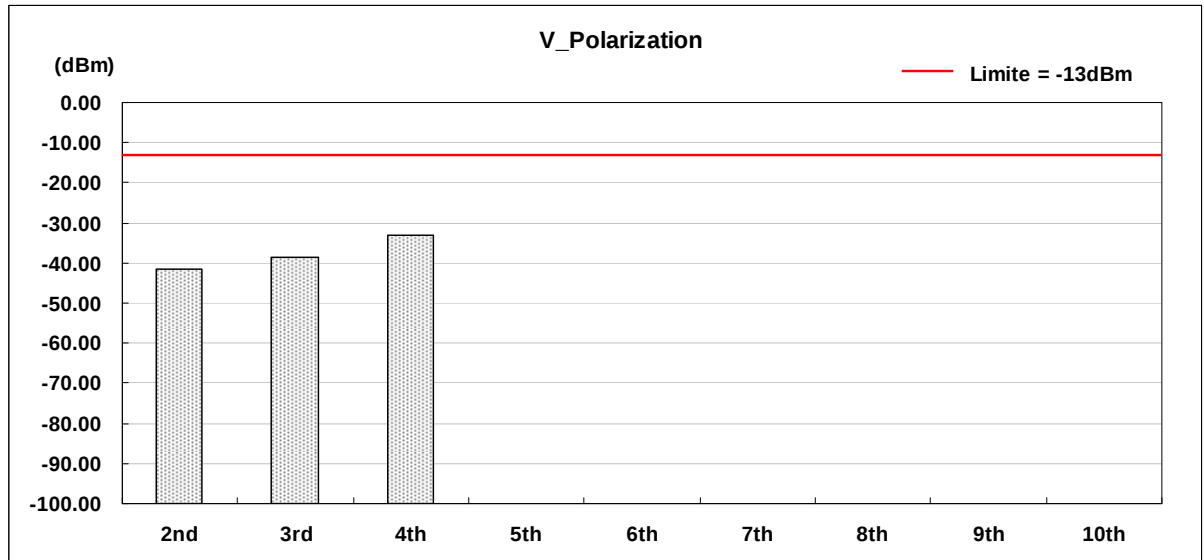


Applicant : Inventec Corporation  
 Model No : velocity 111  
 EUT : PDA PHONE  
 Test Mode : WCDMA Band II (High CH 9538)  
 Test Date : 08/12/2008

| Harmonic | Frequency (MHz) | Polarization | FCC Max. Limit | S.G Power | Substitution Antenna Gain | Cable Loss | Peak Output Power |
|----------|-----------------|--------------|----------------|-----------|---------------------------|------------|-------------------|
|          |                 |              | (dBm)          | (dBm)     | (dBi)                     | (dBm)      | (dBm)             |
| 2nd      | 3815.2          | V            | -13            | -51.69    | 10.79                     | 0.58       | -41.48            |
| 3rd      | 5722.8          | V            | -13            | -48.86    | 10.71                     | 0.63       | -38.78            |
| 4th      | 7630.4          | V            | -13            | -43.23    | 10.81                     | 0.78       | -33.20            |
| 5th      | 9538.0          | V            | -13            | *         | *                         | *          | *                 |
| 6th      | 11445.6         | V            | -13            | *         | *                         | *          | *                 |
| 7th      | 13353.2         | V            | -13            | *         | *                         | *          | *                 |
| 8th      | 15260.8         | V            | -13            | *         | *                         | *          | *                 |
| 9th      | 17168.4         | V            | -13            | *         | *                         | *          | *                 |
| 10th     | 19076.0         | V            | -13            | *         | *                         | *          | *                 |
| 2nd      | 3815.2          | H            | -13            | -55.13    | 10.79                     | 0.58       | -44.92            |
| 3rd      | 5722.8          | H            | -13            | -57.46    | 10.71                     | 0.63       | -47.38            |
| 4th      | 7630.4          | H            | -13            | -56.34    | 10.81                     | 0.78       | -46.31            |
| 5th      | 9538.0          | H            | -13            | *         | *                         | *          | *                 |
| 6th      | 11445.6         | H            | -13            | *         | *                         | *          | *                 |
| 7th      | 13353.2         | H            | -13            | *         | *                         | *          | *                 |
| 8th      | 15260.8         | H            | -13            | *         | *                         | *          | *                 |
| 9th      | 17168.4         | H            | -13            | *         | *                         | *          | *                 |
| 10th     | 19076.0         | H            | -13            | *         | *                         | *          | *                 |

Notes:

5. \* Indicates the spurious emission could not be detected due to noise limitations or ambients.
6. Each emission reported reflects the highest absolute level at the specific harmonic for the low, mid, and high channels at maximum power.
7. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.
8. ERP = S.G Power (dBm) + Substitution Antenna Gain (dBd) - Cable Loss (dB)  
 ERP = S.G Power (dBm) + Substitution Antenna Gain (dBi) - Cable Loss (dB)



## 4.7 Frequency Stability (Temperature Variation)

### 4.7.1 Measurement Instrument

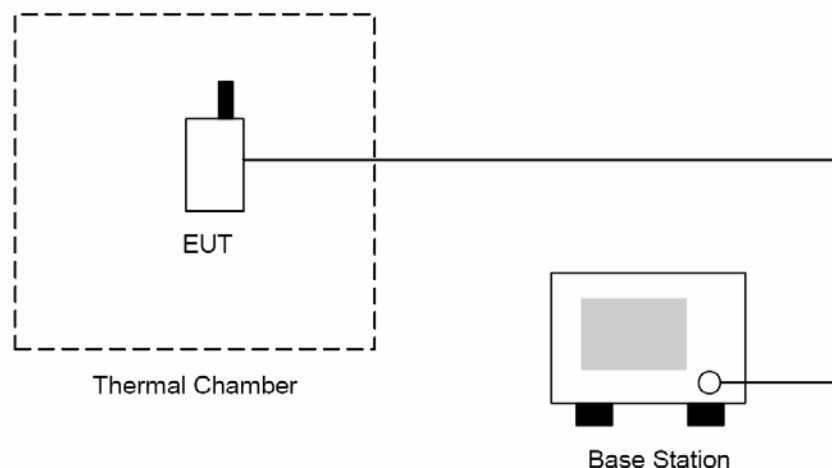
As described in chapter 5 of this test report.

### 4.7.2 Test Procedure

The measurement is made according to FCC rules part 22 and 24:

1. The EUT and test equipment were set up as shown on the following section.
2. With all power removed, the temperature was decreased to  $-30^{\circ}\text{C}$  and permitted to stabilize for three hours. Power was applied and the maximum change in frequency was noted within one minute.
3. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  steps. The sample was permitted to stabilize at each step for at least one-half hour. Power was applied and the maximum frequency change was noted within one minute.
4. The temperature tests were performed for the worst case.
5. Test data was recorded.

### 4.7.3 Test Setup Layout





#### 4.7.4 Test Result

Test Mode: GSM 850 CH190

| Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) |
|------------------|----------------|-----------------|-------------|
| -30              | 21.61          | 0.026           | 0.1         |
| -20              | 20.18          | 0.024           | 0.1         |
| -10              | 18.95          | 0.023           | 0.1         |
| 0                | 16.42          | 0.020           | 0.1         |
| 10               | 19.39          | 0.023           | 0.1         |
| 20               | 20.51          | 0.025           | 0.1         |
| 30               | 18.94          | 0.023           | 0.1         |
| 40               | 19.29          | 0.023           | 0.1         |
| 50               | 20.48          | 0.024           | 0.1         |

Test Mode: PCS 1900 CH661

| Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) |
|------------------|----------------|-----------------|-------------|
| -30              | 33.71          | 0.018           | 1           |
| -20              | 35.81          | 0.019           | 1           |
| -10              | 39.18          | 0.021           | 1           |
| 0                | 41.61          | 0.022           | 1           |
| 10               | 35.19          | 0.019           | 1           |
| 20               | 30.55          | 0.016           | 1           |
| 30               | 33.27          | 0.018           | 1           |
| 40               | 30.89          | 0.016           | 1           |
| 50               | 29.57          | 0.016           | 1           |



Test Mode: WCDMA Band V CH4182

| Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) |
|------------------|----------------|-----------------|-------------|
| -30              | 35.96          | 0.043           | 0.1         |
| -20              | 42.18          | 0.050           | 0.1         |
| -10              | 33.71          | 0.040           | 0.1         |
| 0                | 41.68          | 0.050           | 0.1         |
| 10               | 44.39          | 0.053           | 0.1         |
| 20               | 45.27          | 0.054           | 0.1         |
| 30               | 38.19          | 0.046           | 0.1         |
| 40               | 41.62          | 0.050           | 0.1         |
| 50               | 30.17          | 0.036           | 0.1         |

Test Mode: WCDMA Band II CH9400

| Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) |
|------------------|----------------|-----------------|-------------|
| -30              | 34.24          | 0.018           | 1           |
| -20              | 30.29          | 0.016           | 1           |
| -10              | 50.83          | 0.027           | 1           |
| 0                | 55.16          | 0.029           | 1           |
| 10               | 49.88          | 0.027           | 1           |
| 20               | 41.65          | 0.022           | 1           |
| 30               | 51.51          | 0.027           | 1           |
| 40               | 53.19          | 0.028           | 1           |
| 50               | 52.42          | 0.028           | 1           |

## 4.8 Frequency Stability (Voltage Variation)

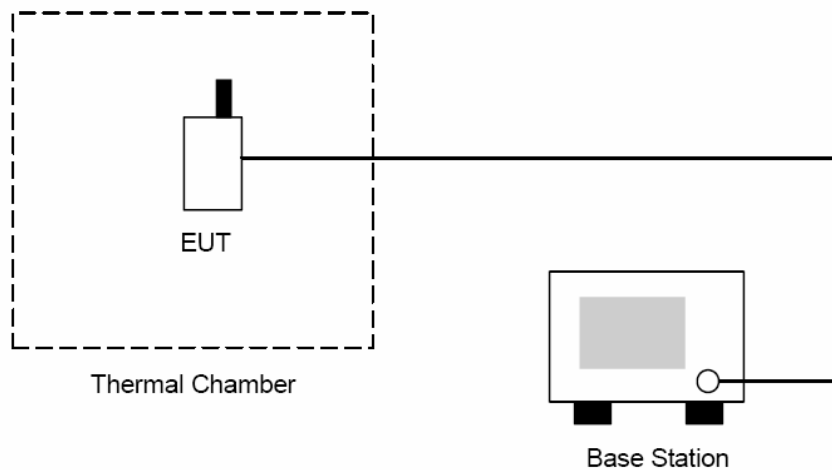
### 4.8.1 Measurement Instrument

As described in chapter 5 of this test report.

### 4.8.2 Test Procedure

1. The EUT was placed in a temperature chamber at  $25 \pm 5$  °C and connected as the following section.
2. The power supply voltage to the EUT was varied from BEP to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

### 4.8.3 Test Setup Layout





#### 4.8.4 Test Result

Test Mode: GSM 850 CH190

| Level                 | Voltage [V] | Deviation [Hz] | Deviation [ppm] | Limit [ppm] |
|-----------------------|-------------|----------------|-----------------|-------------|
| Battery full point    | 4.20        | 24.24          | 0.029           | 0.1         |
| Normal                | 3.70        | 23.51          | 0.028           | 0.1         |
| Battery cut-off point | 3.45        | 20.76          | 0.025           | 0.1         |

Test Mode: PCS 1900 CH661

| Level                 | Voltage [V] | Deviation [Hz] | Deviation [ppm] | Limit [ppm] |
|-----------------------|-------------|----------------|-----------------|-------------|
| Battery full point    | 4.20        | 35.91          | 0.019           | 1           |
| Normal                | 3.70        | 32.96          | 0.018           | 1           |
| Battery cut-off point | 3.45        | 31.58          | 0.017           | 1           |

Test Mode: WCDMA Band V CH4182

| Level                 | Voltage [V] | Deviation [Hz] | Deviation [ppm] | Limit [ppm] |
|-----------------------|-------------|----------------|-----------------|-------------|
| Battery full point    | 4.20        | 39.27          | 0.047           | 0.1         |
| Normal                | 3.70        | 33.19          | 0.040           | 0.1         |
| Battery cut-off point | 3.45        | 30.18          | 0.036           | 0.1         |

Test Mode: WCDMA Band II CH9400

| Level                 | Voltage [V] | Deviation [Hz] | Deviation [ppm] | Limit [ppm] |
|-----------------------|-------------|----------------|-----------------|-------------|
| Battery full point    | 4.20        | 42.61          | 0.023           | 1           |
| Normal                | 3.70        | 40.33          | 0.021           | 1           |
| Battery cut-off point | 3.45        | 43.89          | 0.023           | 1           |



## **4.9 AC Power Conducted Emissions Requirements**

### **4.9.1 Measurement Instrument**

As described in chapter 5 of this test report.

### **4.9.2 Test Procedure**

The measurement is made according to FCC rules 15.207:

The power line conducted emission measurements were performed in a shielded enclosure. The EUT was assembled on a wooden table which is 80 centimeters high, was placed 40 centimeters from the back wall and at least 1 meter from the sidewall.

Power was fed to the EUT from the public utility power grid through a line filter and EMCO Model 3162/2 SH Line Impedance Stabilization Networks (LISN). The LISN housing, measuring instrumentation case, ground plane, etc., were electrically bonded together at the same RF potential. The Spectrum analyzer was connected to the AC line through an isolation transformer. The 50-ohm output of the LISN was connected to the spectrum analyzer directly. Conducted emission levels were in the CISPR quasi-peak detection mode. The analyzer's 6 dB bandwidth was set to 9 KHz. No post-detector video filter was used.

The spectrum was scanned from 150 KHz to 30 MHz. The physical arrangement of the test system and associated cabling was varied (within the scope of arrangements likely to be encountered in actual use) to determine the effect on the unit's emanations in amplitude and frequency. All spurious emission frequencies were observed. The highest emission amplitudes relative to the appropriate limit were measured and have been recorded in paragraph 2.6.

#### 4.9.3 Test Configuration:

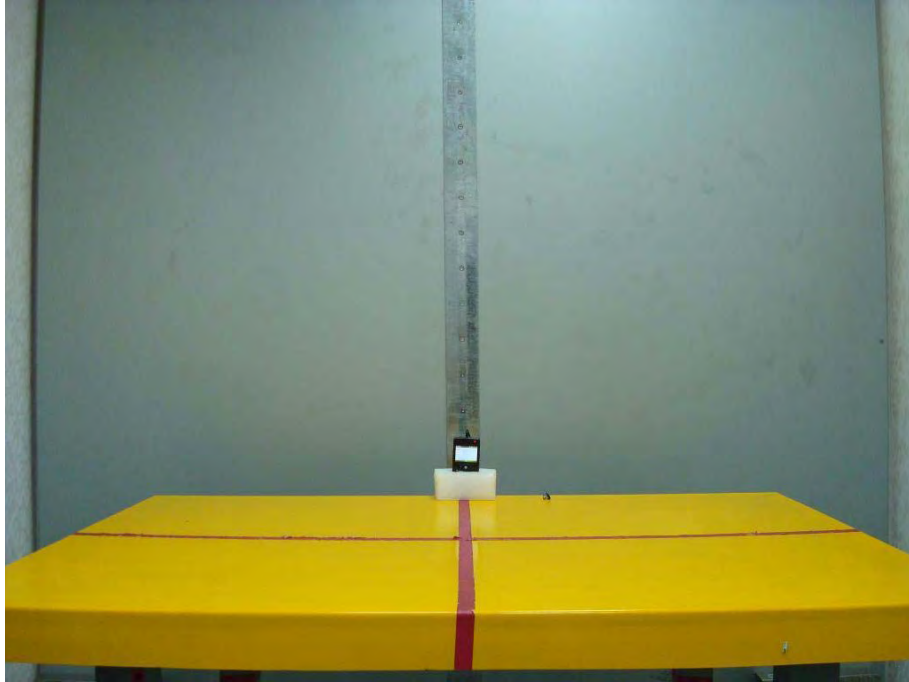


Figure 1. Front View of the Test Configuration

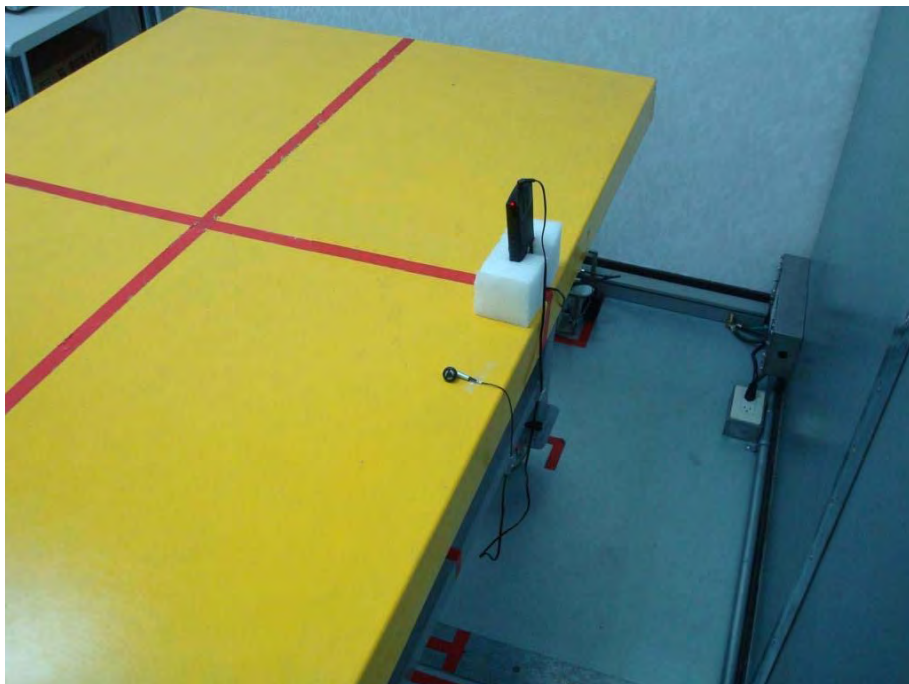


Figure 2. Rear View of the Test Configuration



#### 4.9.4 Test condition:

EUT tested in accordance with the specifications given by the Manufacturer, and exercised in the most unfavorable manner.

#### 4.9.5 Conducted Emissions Limits:

| Frequency range (MHz) | Limits (dBuV) |          |
|-----------------------|---------------|----------|
|                       | Quasi-peak    | Average  |
| 0.15 to 0.50          | 66 to 56      | 56 to 46 |
| 0.50 to 5.0           | 56            | 46       |
| 5.0 to 30             | 60            | 50       |



#### **4.9.6 Test Result**

##### **4.9.6.1 GSM 850 Test Result**

Applicant : Inventec Corporation  
Model No : velocity 111  
EUT : PDA PHONE  
Test Mode : GSM 850 (Low CH128 / Middle CH190 / High CH 251)  
Test Date : 07/24/2008

Please refer to next pager of detail testing data.



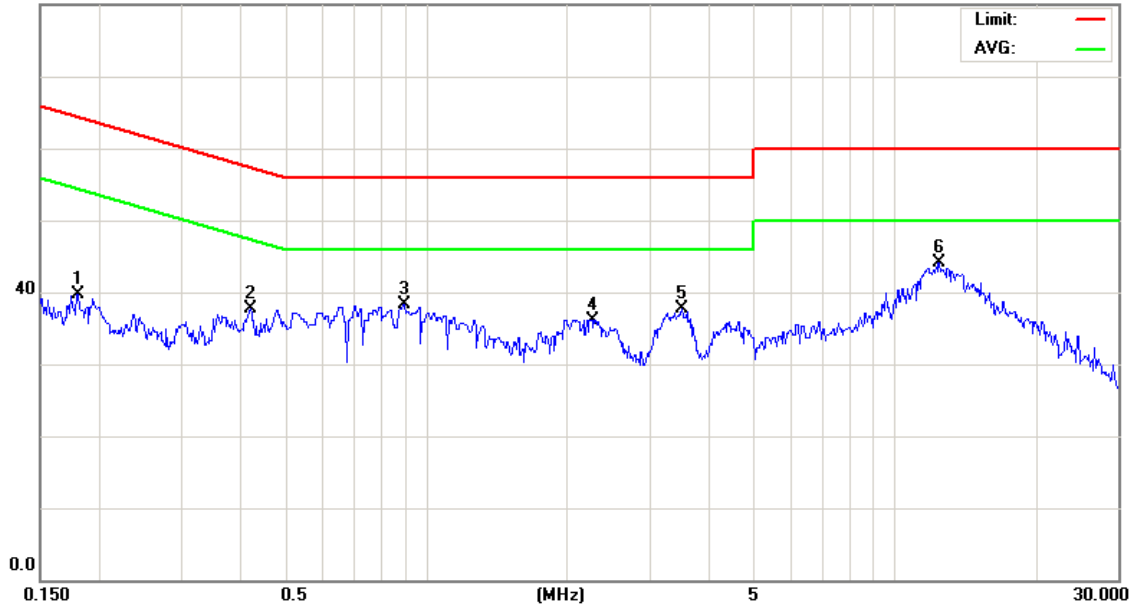
File :colorado 111(GSM850)

Data :#7

Date: 2008/7/24

Time: 下午 06:34:48

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power:

Humidity: 55 %

EUT:

M/N:

Mode: GSM850

Note: CH128

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1801       | 29.98                    | 9.74                    | 39.72                    | 64.48         | -24.76     | peak     |         |
| 2   |     | 0.4202       | 28.02                    | 9.78                    | 37.80                    | 57.44         | -19.64     | peak     |         |
| 3   |     | 0.8960       | 28.48                    | 9.80                    | 38.28                    | 56.00         | -17.72     | peak     |         |
| 4   |     | 2.2550       | 26.28                    | 9.88                    | 36.16                    | 56.00         | -19.84     | peak     |         |
| 5   |     | 3.5060       | 27.77                    | 9.94                    | 37.71                    | 56.00         | -18.29     | peak     |         |
| 6   | *   | 12.4000      | 33.92                    | 10.16                   | 44.08                    | 60.00         | -15.92     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



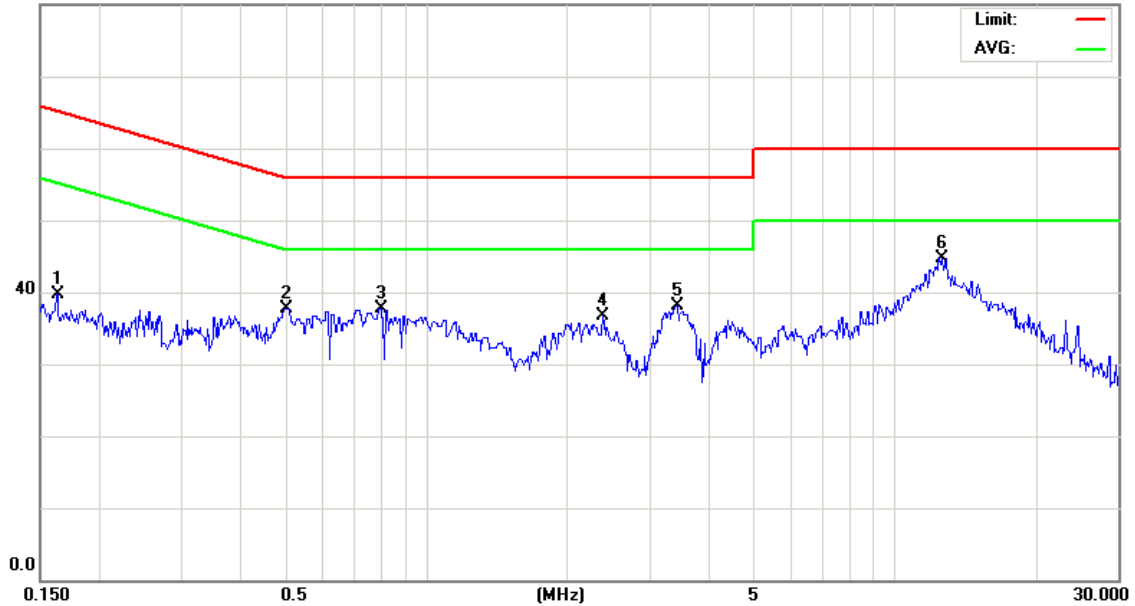
File :colorado 111(GSM850)

Data :#8

Date: 2008/7/24

Time: 下午 06:36:29

80.0 dBuV



Site site#1

Phase: L2

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power:

Humidity: 55 %

EUT:

M/N:

Mode: GSM850

Note: CH128

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1626       | 29.93                    | 9.73                    | 39.66                    | 65.32         | -25.66     | peak     |         |
| 2   |     | 0.5000       | 28.02                    | 9.78                    | 37.80                    | 56.00         | -18.20     | peak     |         |
| 3   |     | 0.7970       | 27.91                    | 9.80                    | 37.71                    | 56.00         | -18.29     | peak     |         |
| 4   |     | 2.3809       | 26.88                    | 9.84                    | 36.72                    | 56.00         | -19.28     | peak     |         |
| 5   |     | 3.4250       | 28.15                    | 9.95                    | 38.10                    | 56.00         | -17.90     | peak     |         |
| 6   | *   | 12.6000      | 34.56                    | 10.17                   | 44.73                    | 60.00         | -15.27     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



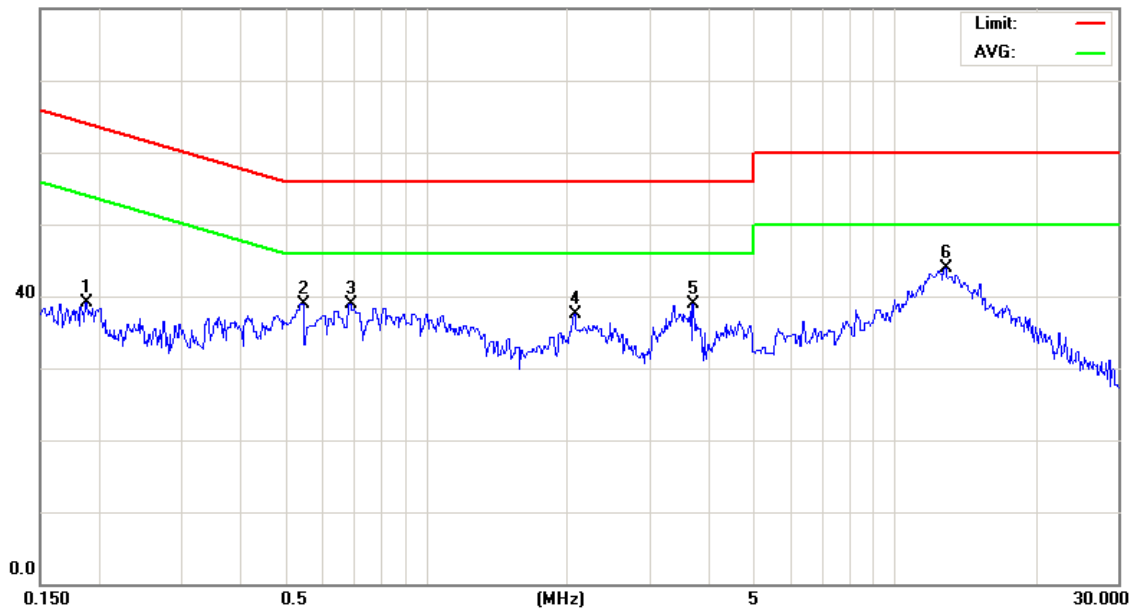
File :colorado 111(GSM850)

Data :#9

Date: 2008/7/24

Time: 下午 06:38:43

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power:

Humidity: 55 %

EUT:

M/N:

Mode: GSM850

Note: CH190

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1878       | 29.31                    | 9.74                    | 39.05                    | 64.13         | -25.08     | peak     |         |
| 2   |     | 0.5450       | 29.09                    | 9.79                    | 38.88                    | 56.00         | -17.12     | peak     |         |
| 3   |     | 0.6889       | 29.15                    | 9.79                    | 38.94                    | 56.00         | -17.06     | peak     |         |
| 4   |     | 2.0660       | 27.63                    | 9.86                    | 37.49                    | 56.00         | -18.51     | peak     |         |
| 5   |     | 3.7040       | 29.02                    | 9.94                    | 38.96                    | 56.00         | -17.04     | peak     |         |
| 6   | *   | 12.8000      | 33.70                    | 10.18                   | 43.88                    | 60.00         | -16.12     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



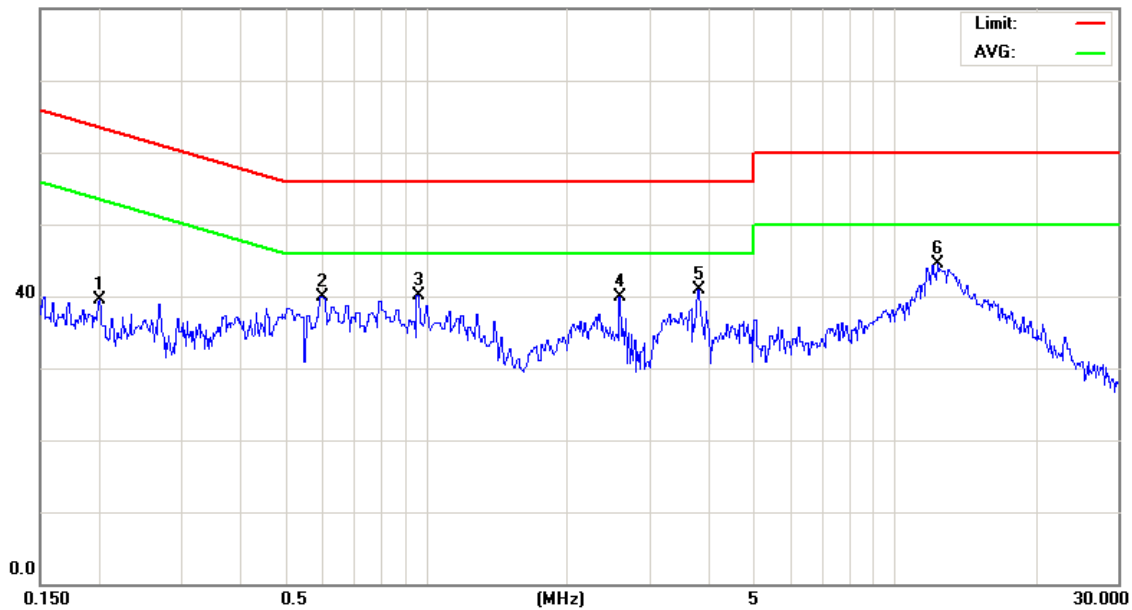
File :colorado 111(GSM850)

Data :#10

Date: 2008/7/24

Time: 下午 06:40:13

80.0 dBuV



Site site#1

Phase: L2

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power:

Humidity: 55 %

EUT:

M/N:

Mode: GSM850

Note: CH190

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.2004       | 29.70                    | 9.74                    | 39.44                    | 63.59         | -24.15     | peak     |         |
| 2   |     | 0.5990       | 30.03                    | 9.79                    | 39.82                    | 56.00         | -16.18     | peak     |         |
| 3   |     | 0.9590       | 30.20                    | 9.81                    | 40.01                    | 56.00         | -15.99     | peak     |         |
| 4   |     | 2.5880       | 29.90                    | 9.93                    | 39.83                    | 56.00         | -16.17     | peak     |         |
| 5   | *   | 3.8030       | 30.87                    | 9.95                    | 40.82                    | 56.00         | -15.18     | peak     |         |
| 6   |     | 12.3500      | 34.28                    | 10.15                   | 44.43                    | 60.00         | -15.57     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



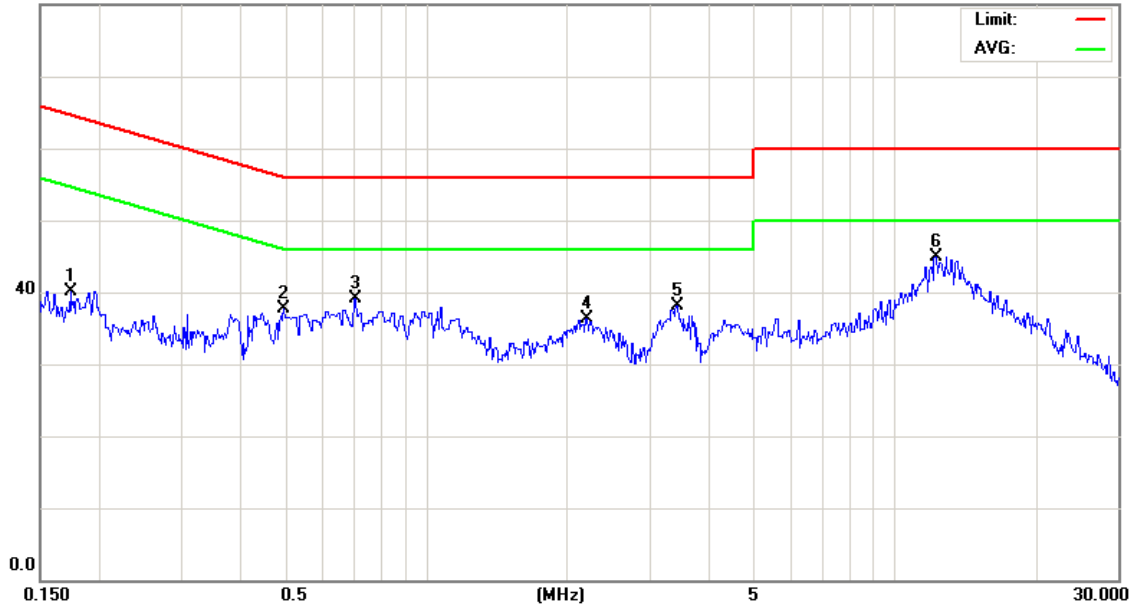
File :colorado 111(GSM850)

Data :#11

Date: 2008/7/24

Time: 下午 06:46:06

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power:

Humidity: 55 %

EUT:

M/N:

Mode: GSM850

Note: CH251

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1737       | 30.46                    | 9.73                    | 40.19                    | 64.78         | -24.59     | peak     |         |
| 2   |     | 0.4965       | 27.95                    | 9.78                    | 37.73                    | 56.06         | -18.33     | peak     |         |
| 3   |     | 0.7070       | 29.31                    | 9.80                    | 39.11                    | 56.00         | -16.89     | peak     |         |
| 4   |     | 2.1920       | 26.49                    | 9.88                    | 36.37                    | 56.00         | -19.63     | peak     |         |
| 5   |     | 3.4250       | 28.18                    | 9.95                    | 38.13                    | 56.00         | -17.87     | peak     |         |
| 6   | *   | 12.2000      | 34.79                    | 10.14                   | 44.93                    | 60.00         | -15.07     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



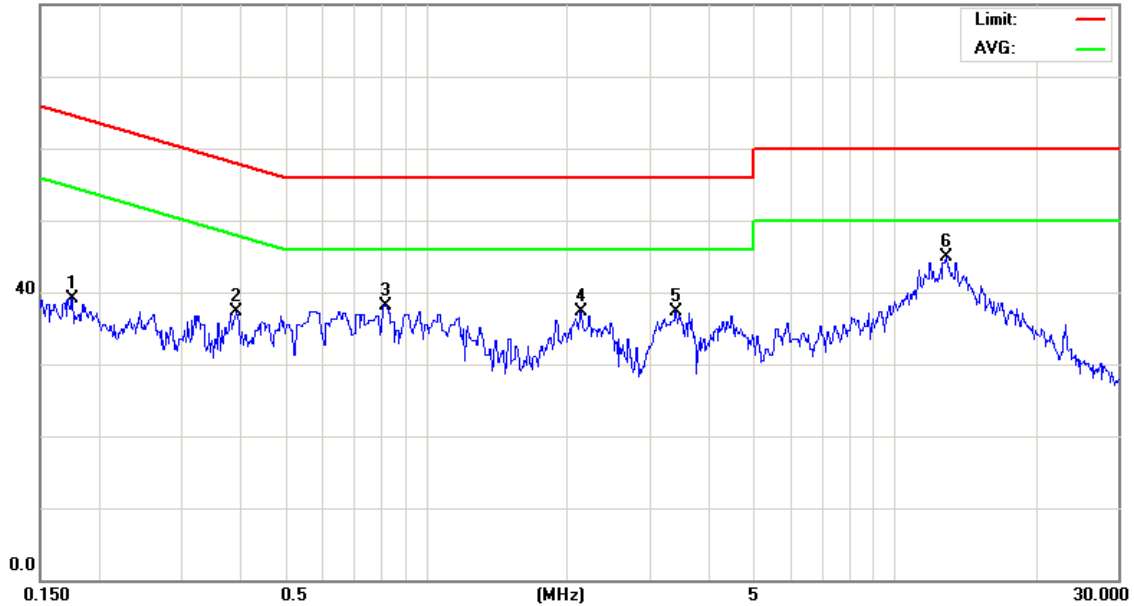
File :colorado 111(GSM850)

Data :#12

Date: 2008/7/24

Time: 下午 06:47:37

80.0 dBuV



Site site#1

Phase: L2

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power:

Humidity: 55 %

EUT:

M/N:

Mode: GSM850

Note: CH251

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1751       | 29.34                    | 9.74                    | 39.08                    | 64.71         | -25.63     | peak     |         |
| 2   |     | 0.3929       | 27.59                    | 9.78                    | 37.37                    | 58.00         | -20.63     | peak     |         |
| 3   |     | 0.8150       | 28.27                    | 9.80                    | 38.07                    | 56.00         | -17.93     | peak     |         |
| 4   |     | 2.1380       | 27.38                    | 9.88                    | 37.26                    | 56.00         | -18.74     | peak     |         |
| 5   |     | 3.4070       | 27.34                    | 9.95                    | 37.29                    | 56.00         | -18.71     | peak     |         |
| 6   | *   | 12.9000      | 34.77                    | 10.18                   | 44.95                    | 60.00         | -15.05     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



#### **4.9.6.2 PCS 1900 Test Result**

Applicant : Inventec Corporation  
Model No : velocity 111  
EUT : PDA PHONE  
Test Mode : PCS 1900 (Low CH512 / Middle CH661 / High CH 810)  
Test Date : 07/24/2008

Please refer to next pager of detail testing data.



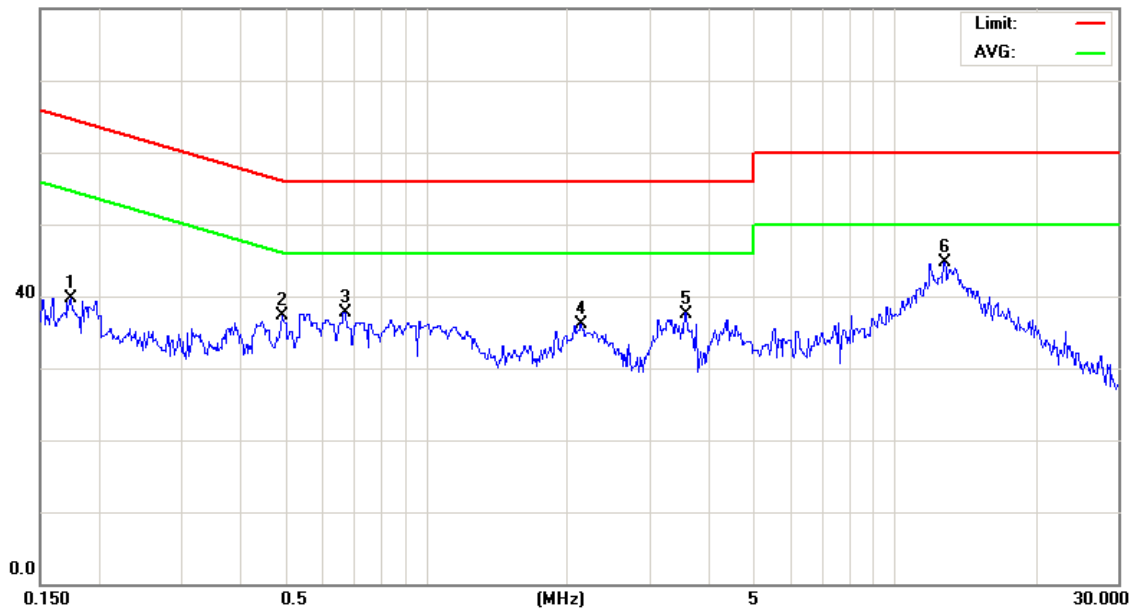
File :colorado 111(PCS1900)

Data :#7

Date: 2008/7/24

Time: 下午 06:49:40

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: PCS1900

Note: CH512

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1745       | 30.03                    | 9.73                    | 39.76                    | 64.74         | -24.98     | peak     |         |
| 2   |     | 0.4916       | 27.54                    | 9.78                    | 37.32                    | 56.14         | -18.82     | peak     |         |
| 3   |     | 0.6710       | 27.84                    | 9.79                    | 37.63                    | 56.00         | -18.37     | peak     |         |
| 4   |     | 2.1380       | 26.21                    | 9.88                    | 36.09                    | 56.00         | -19.91     | peak     |         |
| 5   |     | 3.5690       | 27.66                    | 9.94                    | 37.60                    | 56.00         | -18.40     | peak     |         |
| 6   | *   | 12.7500      | 34.58                    | 10.18                   | 44.76                    | 60.00         | -15.24     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



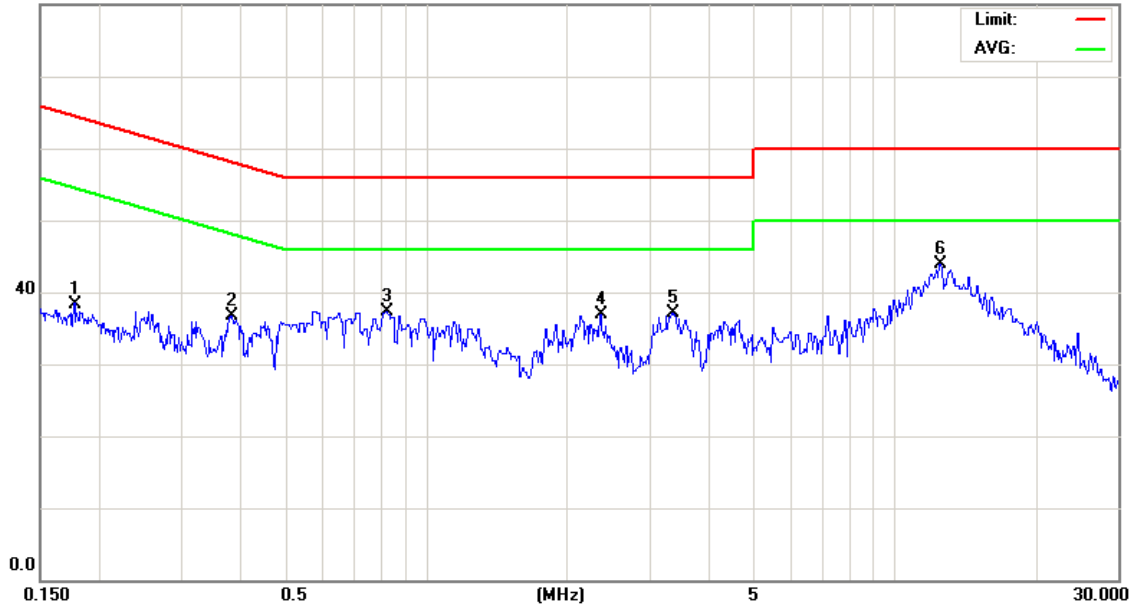
File :colorado 111(PCS1900)

Data :#8

Date: 2008/7/24

Time: 下午 06:51:22

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: PCS1900

Note: CH512

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1773       | 28.66                    | 9.74                    | 38.40                    | 64.61         | -26.21     | peak     |         |
| 2   |     | 0.3837       | 26.92                    | 9.78                    | 36.70                    | 58.20         | -21.50     | peak     |         |
| 3   |     | 0.8240       | 27.57                    | 9.80                    | 37.37                    | 56.00         | -18.63     | peak     |         |
| 4   |     | 2.3540       | 26.99                    | 9.84                    | 36.83                    | 56.00         | -19.17     | peak     |         |
| 5   |     | 3.3530       | 27.20                    | 9.94                    | 37.14                    | 56.00         | -18.86     | peak     |         |
| 6   | *   | 12.4500      | 33.78                    | 10.16                   | 43.94                    | 60.00         | -16.06     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



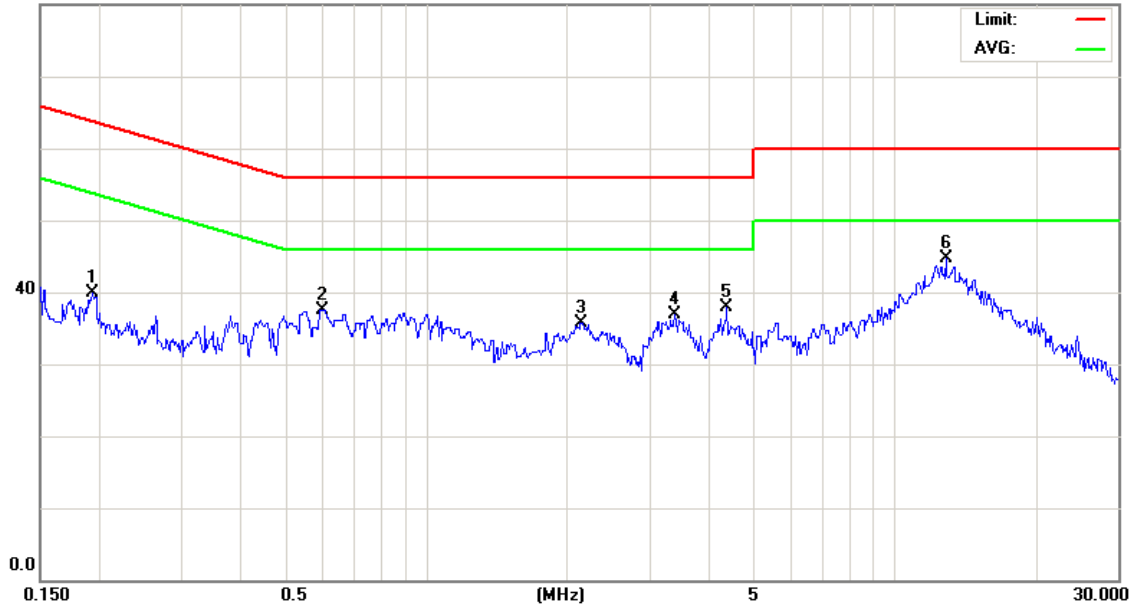
File :colorado 111(PCS1900)

Data :#9

Date: 2008/7/24

Time: 下午 06:57:19

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: PCS1900

Note: CH661

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1934       | 30.07                    | 9.74                    | 39.81                    | 63.88         | -24.07     | peak     |         |
| 2   |     | 0.5990       | 27.73                    | 9.79                    | 37.52                    | 56.00         | -18.48     | peak     |         |
| 3   |     | 2.1380       | 25.91                    | 9.88                    | 35.79                    | 56.00         | -20.21     | peak     |         |
| 4   |     | 3.3890       | 26.95                    | 9.94                    | 36.89                    | 56.00         | -19.11     | peak     |         |
| 5   |     | 4.3700       | 27.91                    | 10.01                   | 37.92                    | 56.00         | -18.08     | peak     |         |
| 6   | *   | 12.8500      | 34.54                    | 10.18                   | 44.72                    | 60.00         | -15.28     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



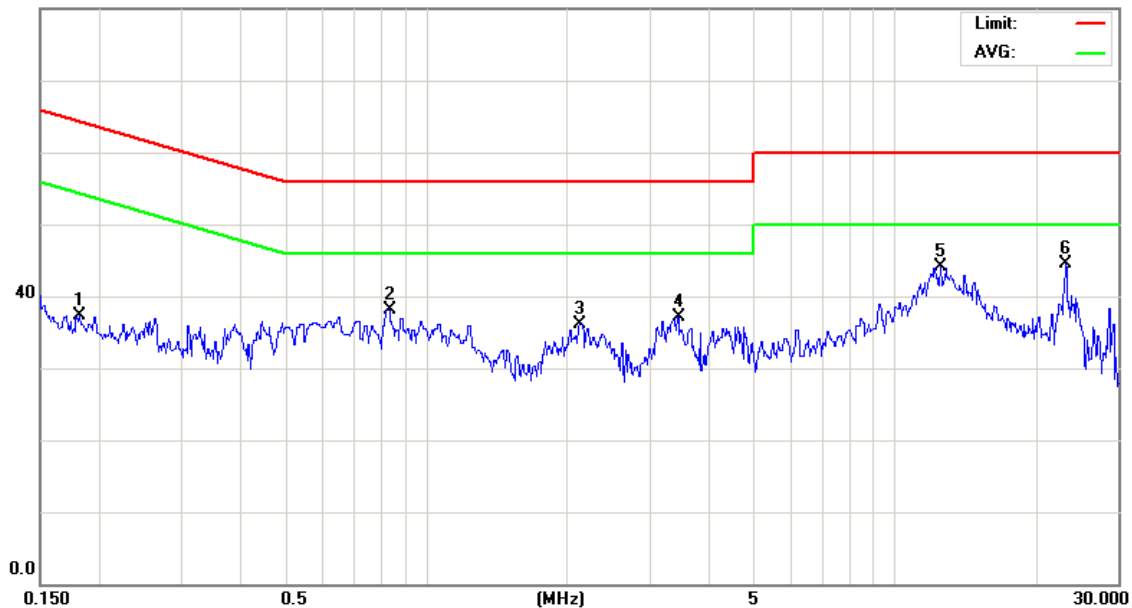
File :colorado 111(PCS1900)

Data :#10

Date: 2008/7/24

Time: 下午 07:02:52

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: PCS1900

Note: CH661

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1815       | 27.48                    | 9.74                    | 37.22                    | 64.41         | -27.19     | peak     |         |
| 2   |     | 0.8330       | 28.38                    | 9.80                    | 38.18                    | 56.00         | -17.82     | peak     |         |
| 3   |     | 2.1290       | 26.27                    | 9.88                    | 36.15                    | 56.00         | -19.85     | peak     |         |
| 4   |     | 3.4430       | 27.19                    | 9.95                    | 37.14                    | 56.00         | -18.86     | peak     |         |
| 5   |     | 12.5000      | 33.90                    | 10.17                   | 44.07                    | 60.00         | -15.93     | peak     |         |
| 6   | *   | 23.1000      | 34.05                    | 10.38                   | 44.43                    | 60.00         | -15.57     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



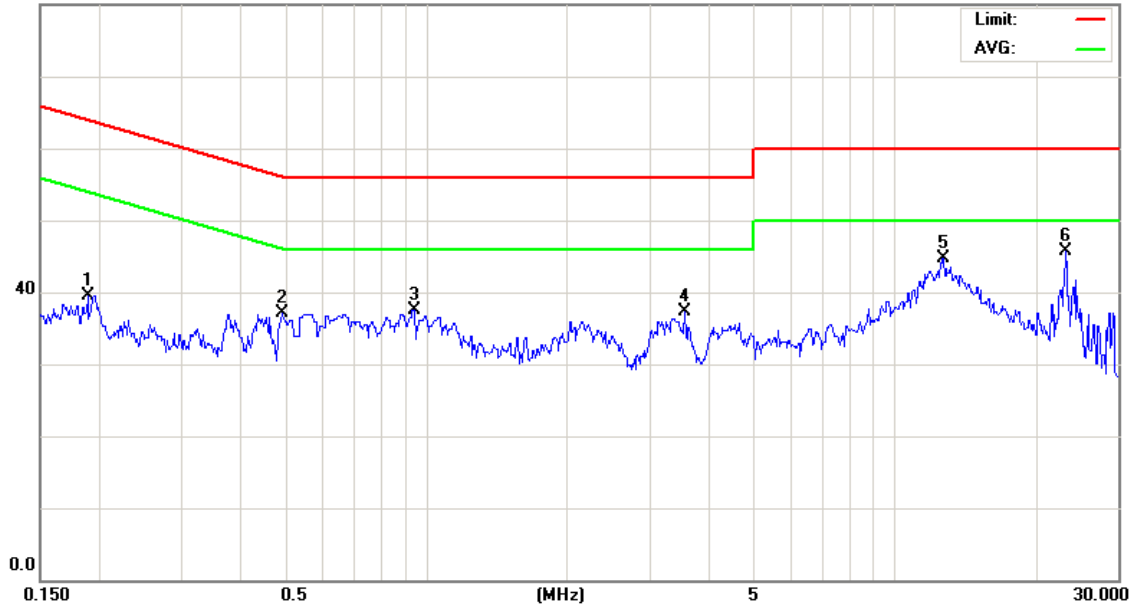
File :colorado 111(PCS1900)

Data :#11

Date: 2008/7/24

Time: 下午 07:07:37

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: PCS1900

Note: CH810

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1892       | 29.83                    | 9.74                    | 39.57                    | 64.07         | -24.50     | peak     |         |
| 2   |     | 0.4902       | 27.40                    | 9.78                    | 37.18                    | 56.16         | -18.98     | peak     |         |
| 3   |     | 0.9410       | 27.60                    | 9.81                    | 37.41                    | 56.00         | -18.59     | peak     |         |
| 4   |     | 3.5600       | 27.30                    | 9.94                    | 37.24                    | 56.00         | -18.76     | peak     |         |
| 5   |     | 12.6500      | 34.52                    | 10.17                   | 44.69                    | 60.00         | -15.31     | peak     |         |
| 6   | *   | 23.1000      | 35.41                    | 10.38                   | 45.79                    | 60.00         | -14.21     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



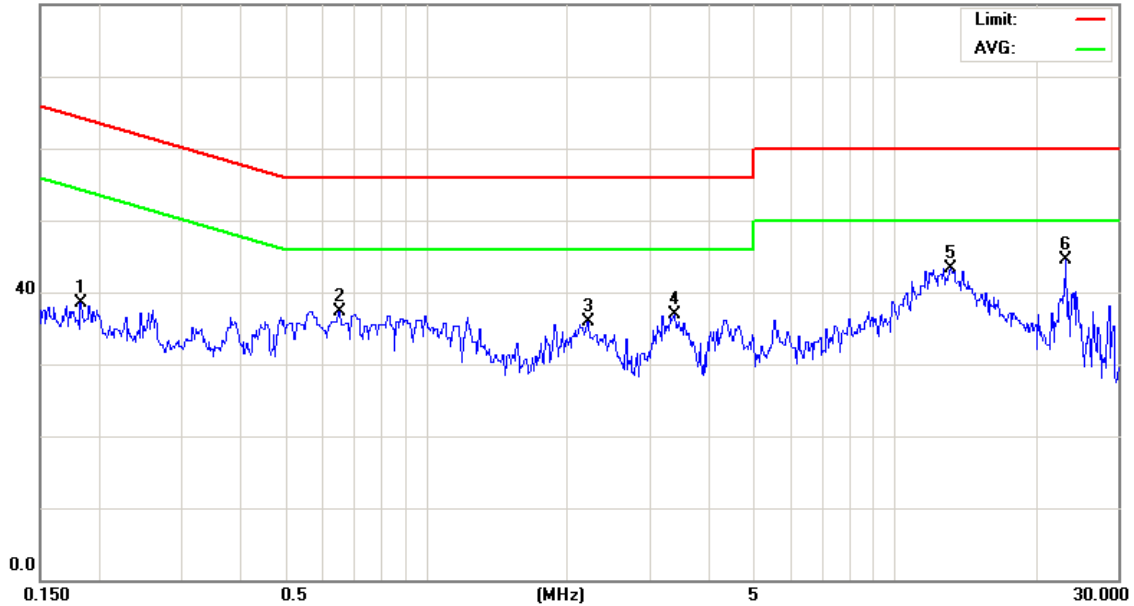
File :colorado 111(PCS1900)

Data :#12

Date: 2008/7/24

Time: 下午 07:16:47

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: PCS1900

Note: CH810

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1829       | 28.83                    | 9.74                    | 38.57                    | 64.35         | -25.78     | peak     |         |
| 2   |     | 0.6530       | 27.53                    | 9.79                    | 37.32                    | 56.00         | -18.68     | peak     |         |
| 3   |     | 2.2100       | 25.96                    | 9.88                    | 35.84                    | 56.00         | -20.16     | peak     |         |
| 4   |     | 3.3890       | 26.98                    | 9.94                    | 36.92                    | 56.00         | -19.08     | peak     |         |
| 5   |     | 13.1500      | 33.11                    | 10.19                   | 43.30                    | 60.00         | -16.70     | peak     |         |
| 6   | *   | 23.1000      | 34.05                    | 10.38                   | 44.43                    | 60.00         | -15.57     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



#### **4.9.6.3 WCDMA Band V Test Result**

Applicant : Inventec Corporation  
Model No : velocity 111  
EUT : PDA PHONE  
Test Mode : WCDMA Band V (Low CH4132 / Middle CH4182 / High CH 4233)  
Test Date : 07/29/2008  
Please refer to next pager of detail testing data.



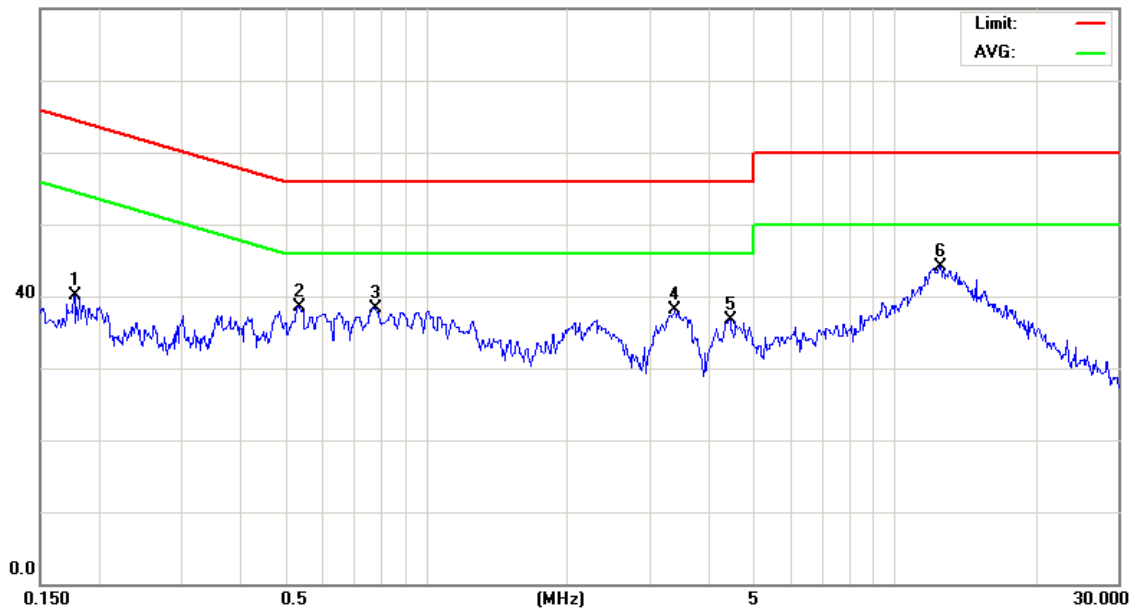
File :colorado 111(WCDMA Band

Data :#7

Date: 2008/7/29

Time: 下午 03:27:01

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WCDMA Band V

Note: CH4132

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1773       | 30.38                    | 9.74                    | 40.12                    | 64.61         | -24.49     | peak     |         |
| 2   |     | 0.5360       | 28.67                    | 9.79                    | 38.46                    | 56.00         | -17.54     | peak     |         |
| 3   |     | 0.7790       | 28.48                    | 9.80                    | 38.28                    | 56.00         | -17.72     | peak     |         |
| 4   |     | 3.3980       | 28.16                    | 9.94                    | 38.10                    | 56.00         | -17.90     | peak     |         |
| 5   |     | 4.4330       | 26.67                    | 10.02                   | 36.69                    | 56.00         | -19.31     | peak     |         |
| 6   | *   | 12.4500      | 34.00                    | 10.16                   | 44.16                    | 60.00         | -15.84     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



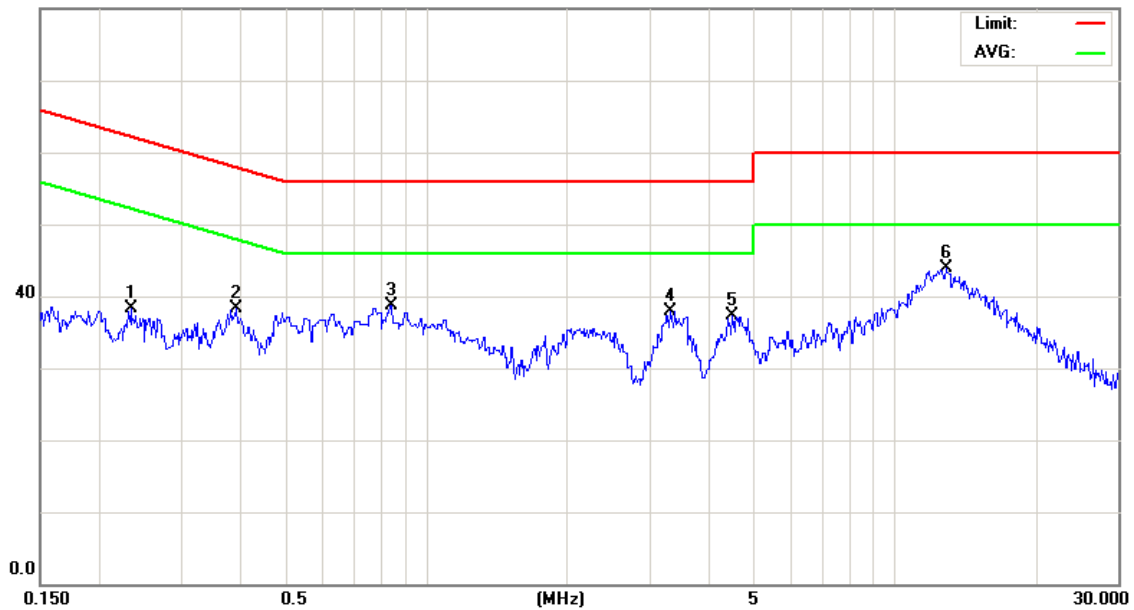
File :colorado 111(WCDMA Band

Data :#8

Date: 2008/7/29

Time: 下午 03:28:29

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WCDMA Band V

Note: CH4132

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.2340       | 28.52                    | 9.75                    | 38.27                    | 62.30         | -24.03     | peak     |         |
| 2   |     | 0.3922       | 28.45                    | 9.78                    | 38.23                    | 58.02         | -19.79     | peak     |         |
| 3   |     | 0.8420       | 28.86                    | 9.80                    | 38.66                    | 56.00         | -17.34     | peak     |         |
| 4   |     | 3.3170       | 27.92                    | 9.93                    | 37.85                    | 56.00         | -18.15     | peak     |         |
| 5   |     | 4.4960       | 27.20                    | 10.02                   | 37.22                    | 56.00         | -18.78     | peak     |         |
| 6   | *   | 12.8500      | 33.66                    | 10.18                   | 43.84                    | 60.00         | -16.16     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



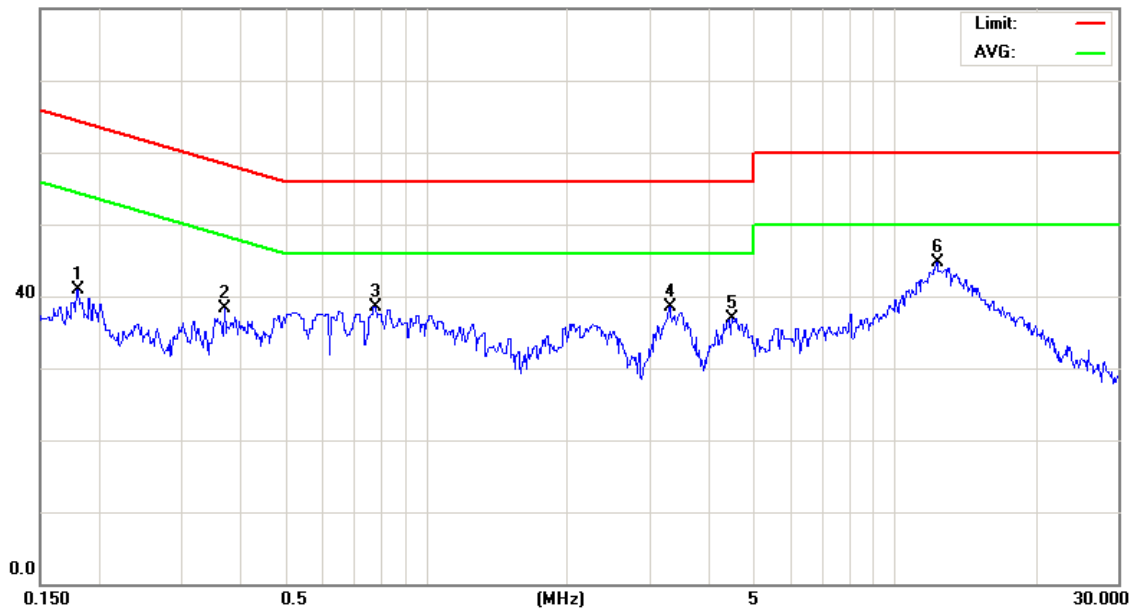
File :colorado 111(WCDMA Band

Data :#9

Date: 2008/7/29

Time: 下午 03:32:16

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WCDMA Band V

Note: CH4180

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1801       | 31.13                    | 9.74                    | 40.87                    | 64.48         | -23.61     | peak     |         |
| 2   |     | 0.3712       | 28.51                    | 9.78                    | 38.29                    | 58.47         | -20.18     | peak     |         |
| 3   |     | 0.7790       | 28.66                    | 9.80                    | 38.46                    | 56.00         | -17.54     | peak     |         |
| 4   |     | 3.2990       | 28.56                    | 9.92                    | 38.48                    | 56.00         | -17.52     | peak     |         |
| 5   |     | 4.4870       | 26.90                    | 10.02                   | 36.92                    | 56.00         | -19.08     | peak     |         |
| 6   | *   | 12.3000      | 34.50                    | 10.15                   | 44.65                    | 60.00         | -15.35     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



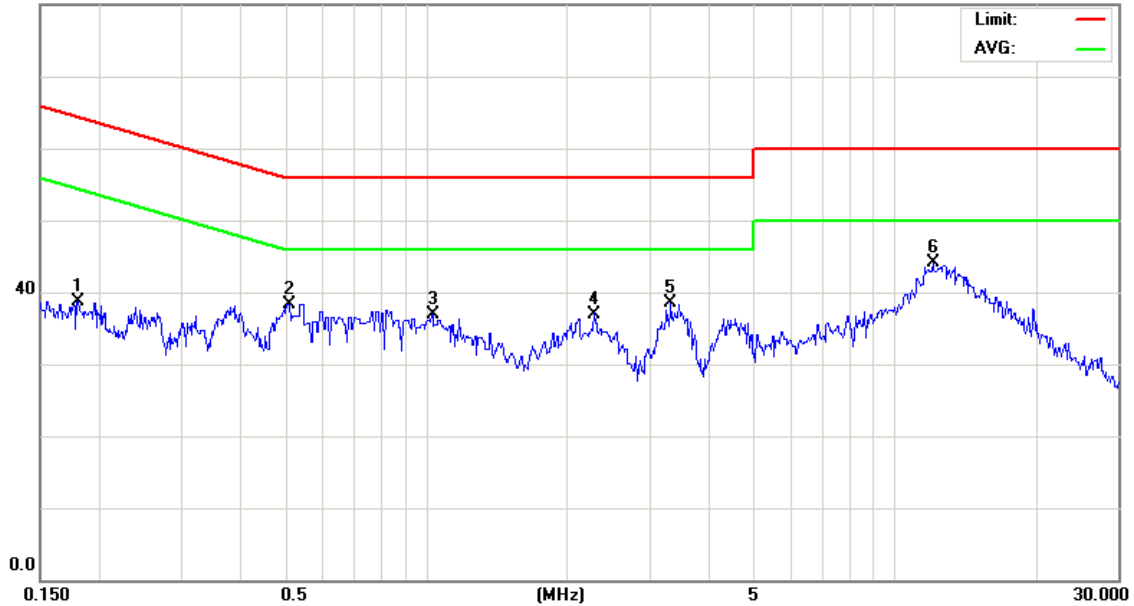
File :colorado 111(WCDMA Band

Data :#10

Date: 2008/7/29

Time: 下午 03:34:06

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WCDMA Band V

Note: CH4180

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1801       | 29.02                    | 9.74                    | 38.76                    | 64.48         | -25.72     | peak     |         |
| 2   |     | 0.5090       | 28.53                    | 9.79                    | 38.32                    | 56.00         | -17.68     | peak     |         |
| 3   |     | 1.0310       | 27.02                    | 9.80                    | 36.82                    | 56.00         | -19.18     | peak     |         |
| 4   |     | 2.2820       | 27.13                    | 9.87                    | 37.00                    | 56.00         | -19.00     | peak     |         |
| 5   |     | 3.3260       | 28.51                    | 9.93                    | 38.44                    | 56.00         | -17.56     | peak     |         |
| 6   | *   | 12.0500      | 33.95                    | 10.13                   | 44.08                    | 60.00         | -15.92     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



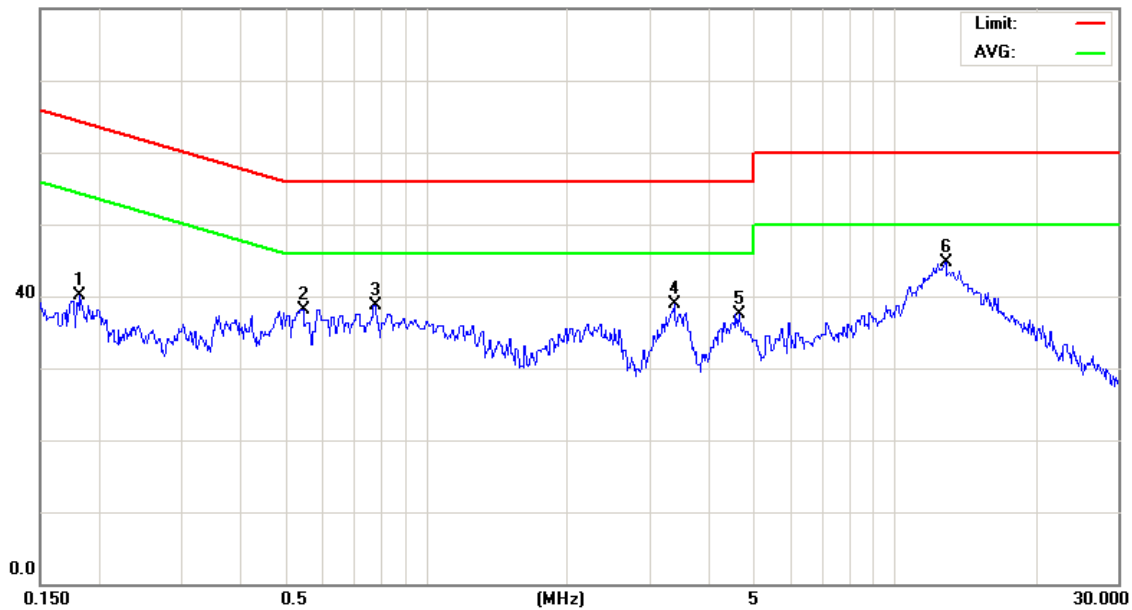
File :colorado 111(WCDMA Band

Data :#11

Date: 2008/7/29

Time: 下午 03:35:56

80.0 dBuV



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WCDMA Band V

Note: CH4233

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1822       | 30.27                    | 9.74                    | 40.01                    | 64.38         | -24.37     | peak     |         |
| 2   |     | 0.5450       | 28.34                    | 9.79                    | 38.13                    | 56.00         | -17.87     | peak     |         |
| 3   |     | 0.7790       | 28.94                    | 9.80                    | 38.74                    | 56.00         | -17.26     | peak     |         |
| 4   |     | 3.3800       | 29.00                    | 9.94                    | 38.94                    | 56.00         | -17.06     | peak     |         |
| 5   |     | 4.6490       | 27.52                    | 10.01                   | 37.53                    | 56.00         | -18.47     | peak     |         |
| 6   | *   | 12.8000      | 34.55                    | 10.18                   | 44.73                    | 60.00         | -15.27     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only

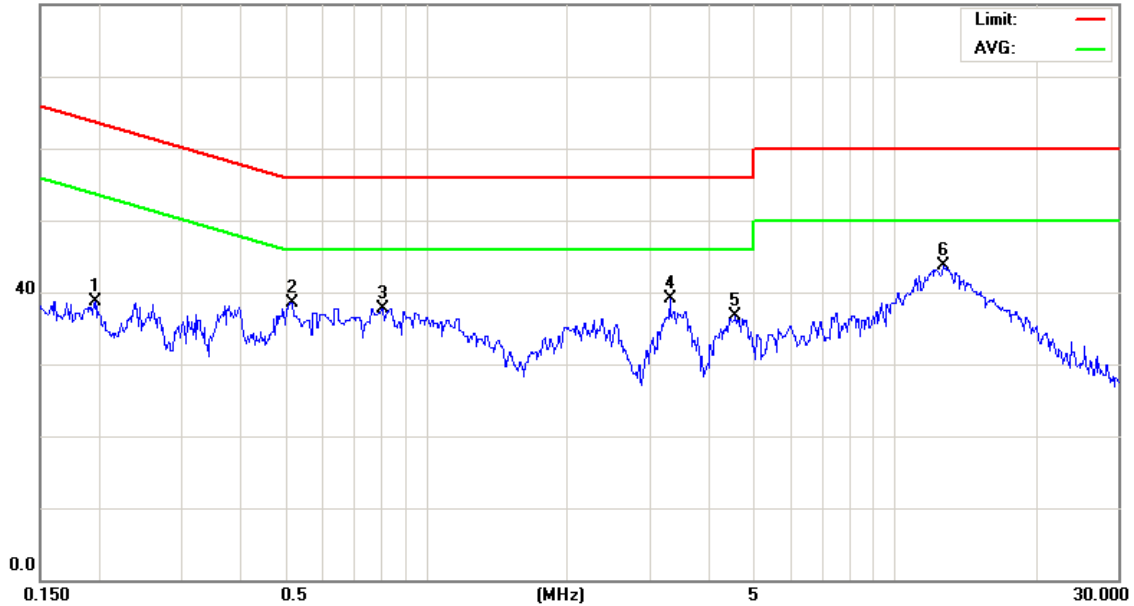


File :colorado 111(WCDMA Band  
80.0 dBuV

Data :#12

Date: 2008/7/29

Time: 下午 03:37:17



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WCDMA Band V

Note: CH4233

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1962       | 28.88                    | 9.74                    | 38.62                    | 63.77         | -25.15     | peak     |         |
| 2   |     | 0.5180       | 28.68                    | 9.79                    | 38.47                    | 56.00         | -17.53     | peak     |         |
| 3   |     | 0.8059       | 27.98                    | 9.80                    | 37.78                    | 56.00         | -18.22     | peak     |         |
| 4   |     | 3.3080       | 29.11                    | 9.93                    | 39.04                    | 56.00         | -16.96     | peak     |         |
| 5   |     | 4.5680       | 26.63                    | 10.02                   | 36.65                    | 56.00         | -19.35     | peak     |         |
| 6   | *   | 12.7000      | 33.59                    | 10.18                   | 43.77                    | 60.00         | -16.23     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



#### **4.9.6.4 WCDMA Band II Test Result**

Applicant : Inventec Corporation  
Model No : velocity 111  
EUT : PDA PHONE  
Test Mode : WCDMA Band II (Low CH9262 / Middle CH9400 / High CH 9536)  
Test Date : 07/29/2008  
Please refer to next pager of detail testing data.

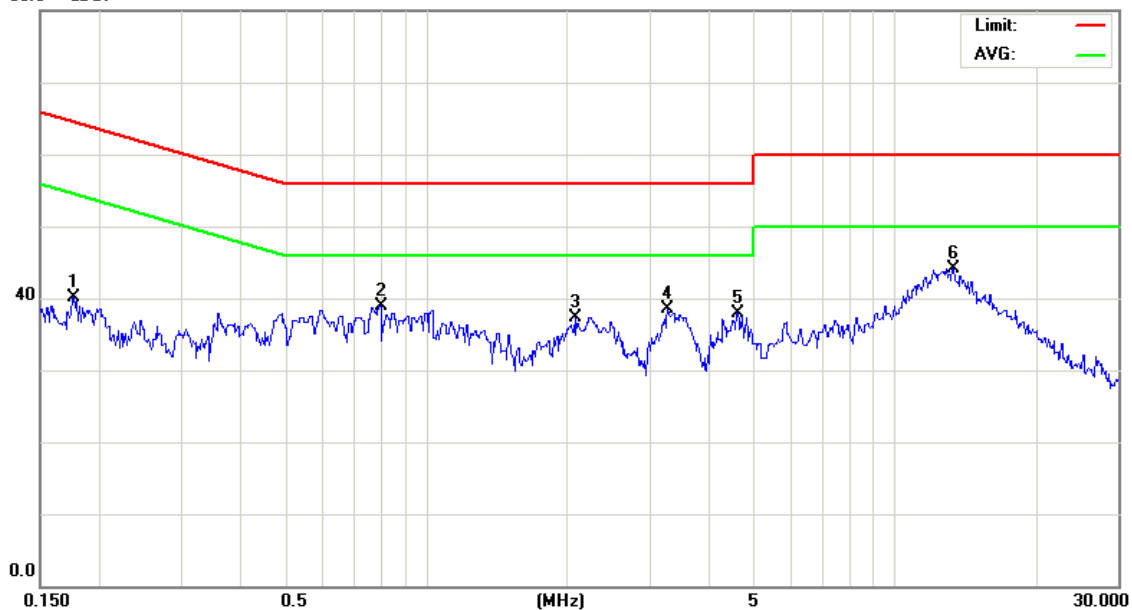


File :colorado 111(WCDMA Band  
80.0 dBuV

Data :#7

Date: 2008/7/29

Time: 下午 03:16:19



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WCDMA Band II

Note: CH9262

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1759       | 30.27                    | 9.74                    | 40.01                    | 64.67         | -24.66     | peak     |         |
| 2   |     | 0.7970       | 29.06                    | 9.80                    | 38.86                    | 56.00         | -17.14     | peak     |         |
| 3   |     | 2.0750       | 27.49                    | 9.86                    | 37.35                    | 56.00         | -18.65     | peak     |         |
| 4   |     | 3.2720       | 28.55                    | 9.92                    | 38.47                    | 56.00         | -17.53     | peak     |         |
| 5   |     | 4.6040       | 27.99                    | 10.01                   | 38.00                    | 56.00         | -18.00     | peak     |         |
| 6   | *   | 13.3000      | 33.91                    | 10.20                   | 44.11                    | 60.00         | -15.89     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



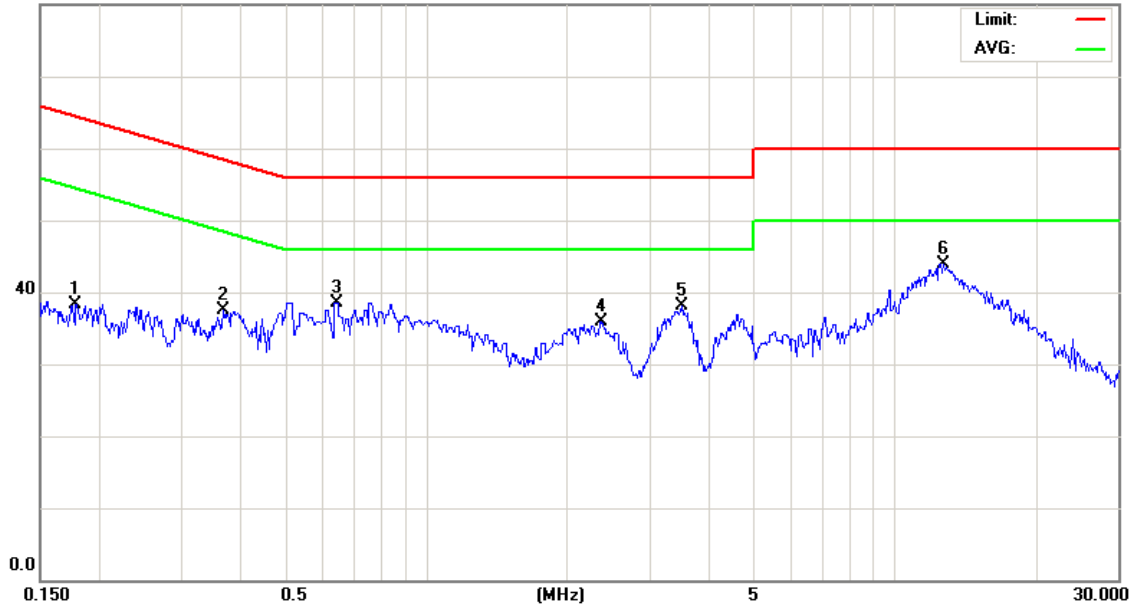
File :colorado 111(WCDMA Band

Data :#8

Date: 2008/7/29

Time: 下午 03:17:54

80.0 dBuV



Site site#1

Phase: L2

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WCDMA Band II

Note: CH9262

| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measure-ment | Limit | Over   | Detector | Comment |
|-----|-----|---------|---------------|----------------|--------------|-------|--------|----------|---------|
|     |     | MHz     | dBuV          | dB             | dBuV         | dBuV  | dB     |          |         |
| 1   |     | 0.1787  | 28.52         | 9.74           | 38.26        | 64.54 | -26.28 | peak     |         |
| 2   |     | 0.3684  | 27.70         | 9.78           | 37.48        | 58.54 | -21.06 | peak     |         |
| 3   |     | 0.6440  | 28.73         | 9.79           | 38.52        | 56.00 | -17.48 | peak     |         |
| 4   |     | 2.3540  | 25.98         | 9.84           | 35.82        | 56.00 | -20.18 | peak     |         |
| 5   |     | 3.5060  | 28.16         | 9.94           | 38.10        | 56.00 | -17.90 | peak     |         |
| 6   | *   | 12.7000 | 33.77         | 10.18          | 43.95        | 60.00 | -16.05 | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only

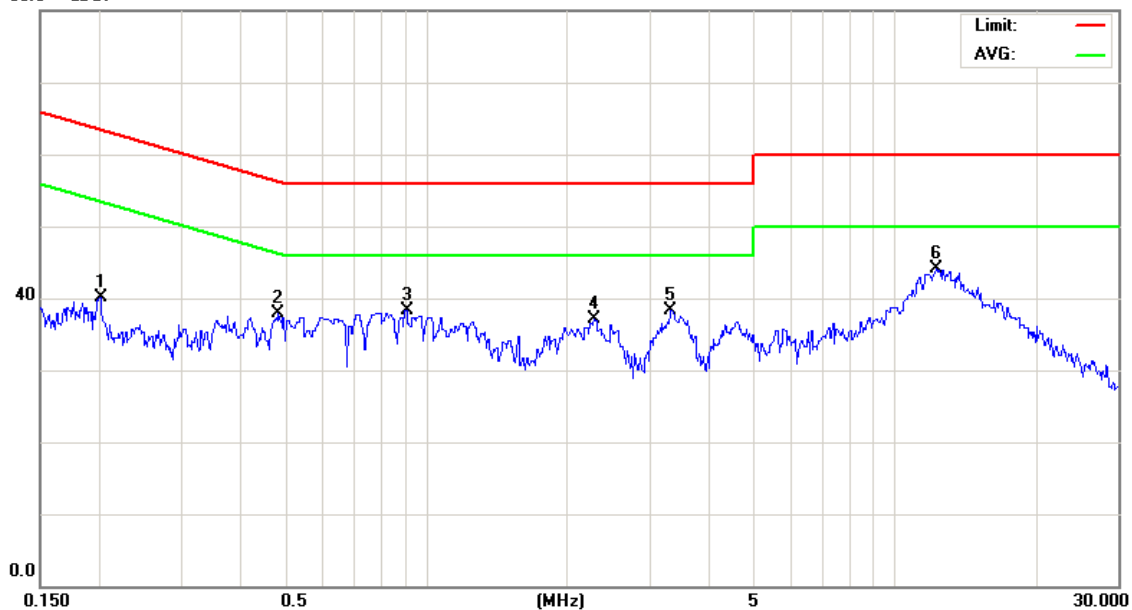


File :colorado 111(WCDMA Band  
80.0 dBuV

Data :#9

Date: 2008/7/29

Time: 下午 03:19:56



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WCDMA Band II

Note: CH9400

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.2011       | 30.34                    | 9.74                    | 40.08                    | 63.56         | -23.48     | peak     |         |
| 2   |     | 0.4825       | 28.19                    | 9.78                    | 37.97                    | 56.30         | -18.33     | peak     |         |
| 3   |     | 0.9050       | 28.45                    | 9.81                    | 38.26                    | 56.00         | -17.74     | peak     |         |
| 4   |     | 2.2820       | 27.21                    | 9.87                    | 37.08                    | 56.00         | -18.92     | peak     |         |
| 5   |     | 3.3260       | 28.45                    | 9.93                    | 38.38                    | 56.00         | -17.62     | peak     |         |
| 6   | *   | 12.2500      | 33.91                    | 10.15                   | 44.06                    | 60.00         | -15.94     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



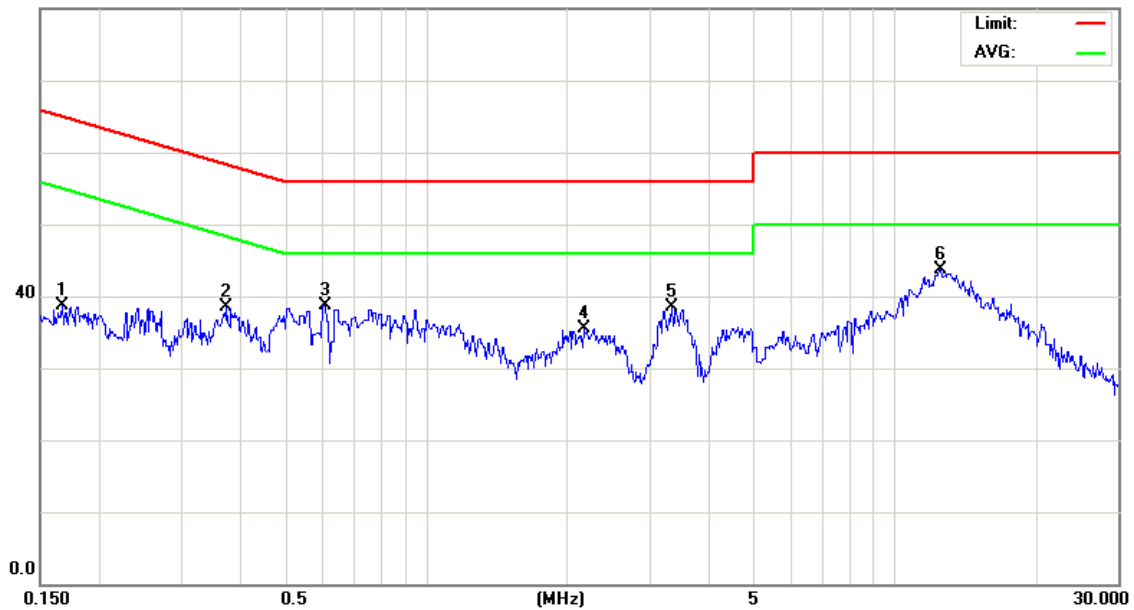
File :colorado 111(WCDMA Band

Data :#10

Date: 2008/7/29

Time: 下午 03:21:12

80.0 dBuV



Site site#1

Phase: **L2**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WCDMA Band II

Note: CH9400

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1668       | 28.92                    | 9.73                    | 38.65                    | 65.11         | -26.46     | peak     |         |
| 2   |     | 0.3747       | 28.71                    | 9.78                    | 38.49                    | 58.39         | -19.90     | peak     |         |
| 3   |     | 0.6080       | 28.87                    | 9.79                    | 38.66                    | 56.00         | -17.34     | peak     |         |
| 4   |     | 2.1650       | 25.70                    | 9.88                    | 35.58                    | 56.00         | -20.42     | peak     |         |
| 5   |     | 3.3440       | 28.52                    | 9.94                    | 38.46                    | 56.00         | -17.54     | peak     |         |
| 6   | *   | 12.4500      | 33.57                    | 10.16                   | 43.73                    | 60.00         | -16.27     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only

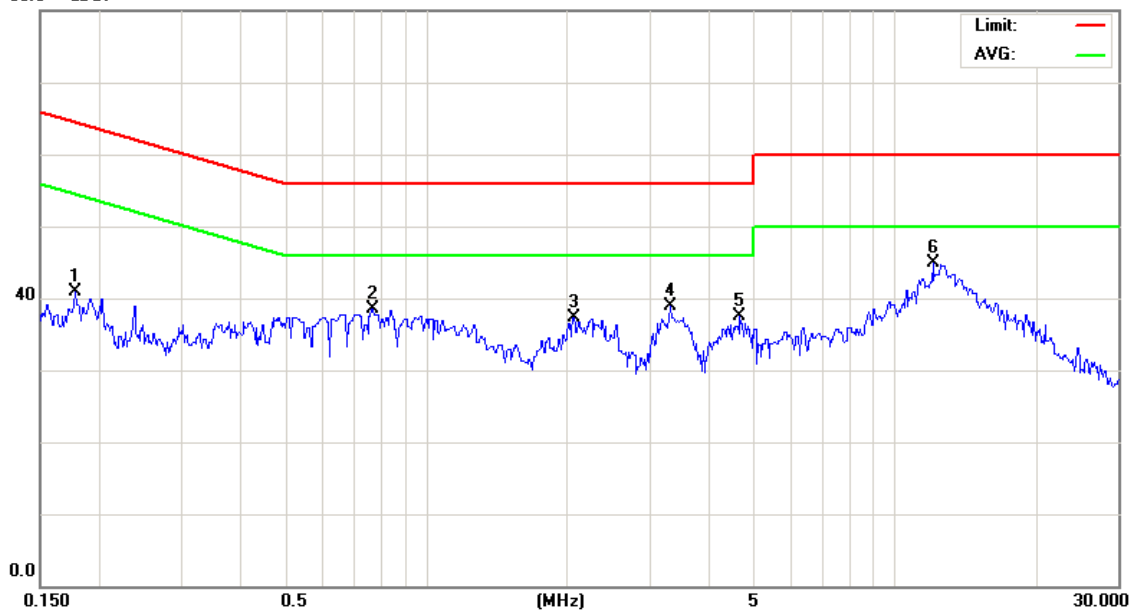


File :colorado 111(WCDMA Band  
80.0 dBuV

Data :#11

Date: 2008/7/29

Time: 下午 03:23:06



Site site#1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WCDMA Band II

Note: CH9538

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1780       | 31.13                    | 9.74                    | 40.87                    | 64.57         | -23.70     | peak     |         |
| 2   |     | 0.7700       | 28.70                    | 9.80                    | 38.50                    | 56.00         | -17.50     | peak     |         |
| 3   |     | 2.0570       | 27.51                    | 9.86                    | 37.37                    | 56.00         | -18.63     | peak     |         |
| 4   |     | 3.3170       | 28.98                    | 9.93                    | 38.91                    | 56.00         | -17.09     | peak     |         |
| 5   |     | 4.6579       | 27.53                    | 10.01                   | 37.54                    | 56.00         | -18.46     | peak     |         |
| 6   | *   | 12.0500      | 34.76                    | 10.13                   | 44.89                    | 60.00         | -15.11     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only

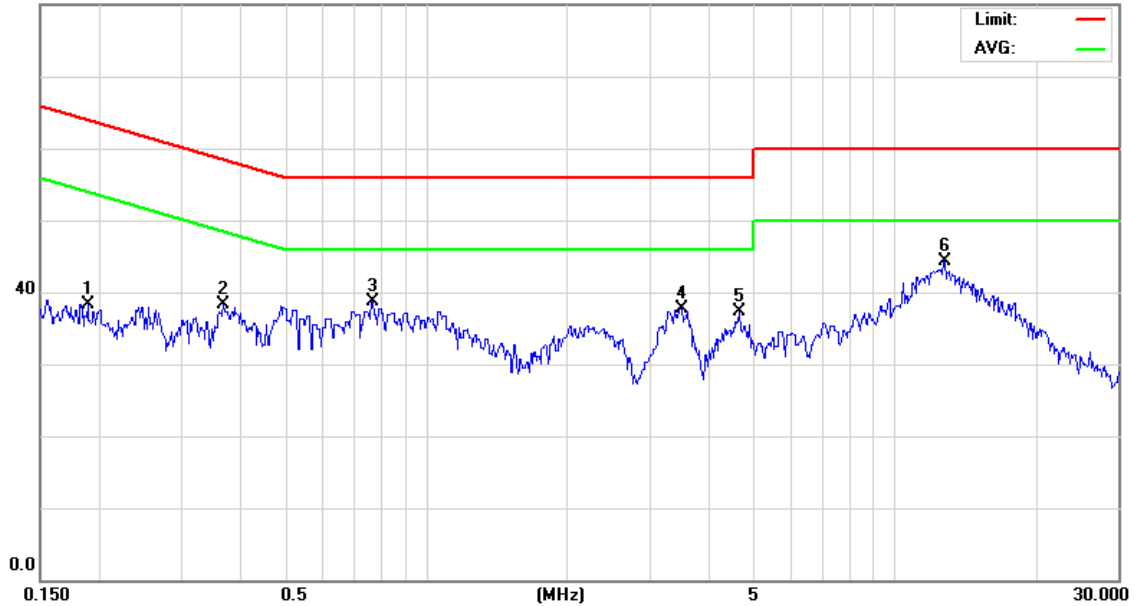


File :colorado 111(WCDMA Band  
80.0 dBuV

Data :#12

Date: 2008/7/29

Time: 下午 03:24:35



Site site#1

Phase: L2

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 110V/60Hz

Humidity: 55 %

EUT:

M/N:

Mode: WCDMA Band II

Note: CH9538

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1892       | 28.64                    | 9.74                    | 38.38                    | 64.07         | -25.69     | peak     |         |
| 2   |     | 0.3691       | 28.53                    | 9.78                    | 38.31                    | 58.52         | -20.21     | peak     |         |
| 3   |     | 0.7700       | 28.82                    | 9.80                    | 38.62                    | 56.00         | -17.38     | peak     |         |
| 4   |     | 3.4970       | 27.70                    | 9.95                    | 37.65                    | 56.00         | -18.35     | peak     |         |
| 5   |     | 4.6490       | 27.24                    | 10.01                   | 37.25                    | 56.00         | -18.75     | peak     |         |
| 6   | *   | 12.7500      | 34.20                    | 10.18                   | 44.38                    | 60.00         | -15.62     | peak     |         |

\*:Maximum data x:Over limit !:over margin

●Reference Only



## 5. List of Measurement Equipments

| Manufacturer                                | Name of Equipment        | Type/Model            | Serial Number | Calibration   |               |
|---------------------------------------------|--------------------------|-----------------------|---------------|---------------|---------------|
|                                             |                          |                       |               | Last Cal.     | Due Date      |
| Agilent                                     | Spectrum analyzer        | E4408B                | MY45107753    | Jun. 05, 2008 | Jun. 05, 2009 |
| R&S                                         | Receiver                 | ESCI                  | 100367        | Jun. 05, 2008 | Jun. 05, 2009 |
| SCHWARZBECK                                 | Trilog Broadband Antenna | VULB 9163             | 9163-270      | Jun. 26, 2008 | Jun. 26, 2009 |
| SCHWARZBECK                                 | Broadband Horn Antenna   | BBHA 9120D            | 9120D-550     | Jun. 26, 2008 | Jun. 26, 2009 |
| SCHWARZBECK                                 | Broadband Horn Antenna   | BBHA 9170             | 9170-320      | Jun. 09, 2008 | Aug. 07, 2009 |
| Agilent                                     | Amplifier                | 8447D                 | 2944A10961    | Jun. 10, 2008 | Jun. 10, 2009 |
| Universal Radio Communication Tester        | ROHDE & SCHWARZ          | CMU200                | 112387        | Oct. 24, 2007 | Oct. 24, 2008 |
| Spectrum Analyzer                           | Agilent                  | E4445A                | MY45300744    | Nov. 29, 2007 | Nov. 29, 2008 |
| Loop Dipole                                 | ETS-Lindgren             | 3127-1880             | 00052640      | Jul. 02, 2008 | Jul. 02, 2009 |
| Loop Dipole                                 | ETS-Lindgren             | 3127-836              | 00055272      | Jun. 29, 2008 | Jun. 29, 2009 |
| Sleeve Dipole                               | ETS-Lindgren             | 3126-1845             | 00056670      | Jun. 29, 2008 | Jun. 29, 2009 |
| Sleeve Dipole                               | ETS-Lindgren             | 3126-880              | 00052705      | Jun. 29, 2008 | Jun. 29, 2009 |
| Anechoic Chamber                            | ETS-Lindgren             | AMS 8500              | S/N 102165    | NA            |               |
| High Pass Filter                            | MICRO-TRONICS            | HPM50108              | 020           | NA            |               |
| High Pass Filter                            | MICRO-TRONICS            | HPM50111              | 021           | NA            |               |
| Circularly Polarized Communication Antennas | EMCO                     | 3102                  | 00051714      | NA            |               |
| Pattern Measurement Software                | ETS-Lindgren             | EMQuest™ EMQ-100      | NA            | NA            |               |
| Desktop Computer with Windows XP            |                          | Dell Computers        | NA            | NA            |               |
| Antenna Positioner Controller               | EMCO                     | 2090                  | 00052447      | NA            |               |
| MAPS Positioner                             | EMCO                     | 2010/2015             | NA            | NA            |               |
| Filter                                      | K&L                      | 5TNF-1700/2000-0.1N/N | 166           | NA            |               |
| Filter                                      | K&L                      | 3TNF-800/1000-0.2N/N  | 274           | NA            |               |
| Attenuator                                  | RADIAL                   | R41572000             | 0603033073    | NA            |               |
| Splitter                                    | Powercom                 | SGR-GFQ-2-D           | 41106609      | NA            |               |
| Power divider                               | Agilent                  | 87302C                | 3239A00760    | NA            |               |



## 6. Uncertainty Evaluation

### Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

| Contribution                                                                             | Uncertainty of $x_i$ |                          | $u(x_i)$ |
|------------------------------------------------------------------------------------------|----------------------|--------------------------|----------|
|                                                                                          | dB                   | Probability Distribution |          |
| Receiver reading                                                                         | 0.41                 | Normal(k=2)              | 0.21     |
| Antenna factor calibration                                                               | 0.83                 | Normal(k=2)              | 0.42     |
| Cable loss calibration                                                                   | 0.25                 | Normal(k=2)              | 0.13     |
| Pre Amplifier Gain calibration                                                           | 0.27                 | Normal(k=2)              | 0.14     |
| RCV/SPA specification                                                                    | 2.50                 | Rectangular              | 0.72     |
| Antenna Factor Interpolation for Frequency                                               | 1.00                 | Rectangular              | 0.29     |
| Site imperfection                                                                        | 1.43                 | Rectangular              | 0.83     |
| Mismatch                                                                                 | +0.39/-0.41          | U-shaped                 | 0.28     |
| <b>combined standard uncertainty <math>U_c(y)</math></b>                                 | <b>1.27</b>          |                          |          |
| <b>Measuring uncertainty for a level of confidence of 95%<br/><math>U=2U_c(y)</math></b> | <b>2.54</b>          |                          |          |

### Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

| Contribution                                                                                                                                | Uncertainty of $x_i$ |                          | $u(x_i)$ | $C_i$ | $C_i * u(x_i)$ |
|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|----------|-------|----------------|
|                                                                                                                                             | dB                   | Probability Distribution |          |       |                |
| Receiver reading                                                                                                                            | ±0.10                | Normal(k=1)              | 0.10     | 1     | 0.10           |
| Antenna factor calibration                                                                                                                  | ±1.70                | Normal(k=2)              | 0.85     | 1     | 0.85           |
| Cable loss calibration                                                                                                                      | ±0.50                | Normal(k=2)              | 0.25     | 1     | 0.25           |
| Receiver Correction                                                                                                                         | ±2.00                | Rectangular              | 1.15     | 1     | 1.15           |
| Antenna Factor Directional                                                                                                                  | ±1.50                | Rectangular              | 0.87     | 1     | 0.87           |
| Site imperfection                                                                                                                           | ±2.80                | Triangular               | 1.14     | 1     | 1.14           |
| Mismatch Receiver VSWR $\sqrt{1} = 0.197$<br>Antenna VSWR $\sqrt{2} = 0.194$<br>Uncertainty = $20 \log(1 - \sqrt{1} * \sqrt{2} * \sqrt{3})$ | +0.34/-0.35          | U-shaped                 | 0.244    | 1     | 0.244          |
| <b>Combined standard uncertainty <math>U_c(y)</math></b>                                                                                    | <b>2.36</b>          |                          |          |       |                |
| <b>Measuring uncertainty for a level of confidence of 95%<br/><math>U=2U_c(y)</math></b>                                                    | <b>4.72</b>          |                          |          |       |                |