

# **ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**

## **INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E & SUBPART L REQUIREMENT**

OF

**Product Name:** Mobile Phone

**Brand Name:** Sony

**Type No.:** PM-0855-BV

**Model Difference:** N/A

**FCC ID:** PY7-PM0855

**Report No.:** ER/2014/B0051

**Issue Date:** Jan. 09, 2015

**FCC Rule Part:** 2, 22H & 24E & L

**Prepared for:** Sony Mobile Communications AB  
Nya Vattentornet 22188 Lund/SWEDEN

**Prepared by:** SGS Taiwan Ltd.  
Electronics & Communication Laboratory  
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**VERIFICATION OF COMPLIANCE**

**Applicant:** Sony Mobile Communications AB  
Nya Vattentornet 22188 Lund/Sweden

**Product Name:** Mobile Phone

**Brand Name:** Sony

**Type No.:** PM-0855-BV

**Model Difference:** N/A

**FCC ID:** PY7-PM0855

**File Number:** ER/2014/B0051

**Date of test:** Nov. 06, 2014 ~ Dec. 11, 2014

**Date of EUT Received:** Nov. 06, 2014

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule PART 22 subpart H, PART 24 subpart E, PART 27 subpart C.

The test results of this report relate only to the tested sample identified in this report.

**Test By:****Date:**

Jan. 09, 2015

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*Marcus Tseng / Engineer***Prepared By:****Date:**

Jan. 09, 2015

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*Allen Tsai / Engineer***Approved By:****Date:**

Jan. 09, 2015

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*Jim Chang / Supervisor*

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## Revision History

| Report Number | Revision | Description                  | Issue Date    |
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| ER/2014/B0051 | Rev.00   | Initial creation of document | Dec. 11, 2014 |
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|               |          |                              |               |

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## Table of Contents

|   |           |
|---|-----------|
| <b>1. GENERAL PRODUCT INFORMATION</b>                             | <b>6</b>  |
| 1.1. Product Description  | 6         |
| 1.2. Related Submittal(s) / Grant (s)                             | 13        |
| 1.3. Test Methodology   | 13        |
| 1.4. Test Facility  | 13        |
| 1.5. Special Accessories  | 13        |
| 1.6. Equipment Modifications                                      | 13        |
| <b>2. SYSTEM TEST CONFIGURATION</b>                               | <b>14</b> |
| 2.1. EUT Configuration  | 14        |
| 2.2. EUT Exercise   | 14        |
| 2.3. Test Procedure   | 14        |
| 2.4. Measurement Equipment Used:                                  | 15        |
| 2.5. Configuration of Tested System                               | 17        |
| <b>3. SUMMARY OF TEST RESULTS</b>                                 | <b>18</b> |
| <b>4. DESCRIPTION OF TEST MODES</b>                               | <b>22</b> |
| <b>5. MEASUREMENT UNCERTAINTY</b>                                 | <b>25</b> |
| <b>6. RF POWER OUTPUT MEASUREMENT</b>                             | <b>26</b> |
| 6.1. Standard Applicable:   | 26        |
| 6.2. Test Set-up:   | 27        |
| 6.3. Measurement Procedure:                                       | 27        |
| 6.4. Measurement Equipment Used:                                  | 27        |
| 6.5. Measurement Result:  | 28        |
| <b>7. ERP, EIRP MEASUREMENT</b>                                   | <b>48</b> |
| 7.1. Standard Applicable:   | 48        |
| 7.2. Test SET-UP (Block Diagram of Configuration):                | 48        |
| 7.3. Measurement Procedure:                                       | 50        |
| 7.4. Measurement Equipment Used:                                  | 51        |
| 7.5. Measurement Result: (Peak) –using option of peak measurement | 52        |
| <b>8. OCCUPIED BANDWIDTH MEASUREMENT</b>                          | <b>76</b> |
| 8.1. Standard Applicable:   | 76        |
| 8.2. Test Set-up:   | 76        |
| 8.3. Measurement Procedure:                                       | 76        |
| 8.4. Measurement Equipment Used:                                  | 76        |
| 8.5. Measurement Result:  | 76        |

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|   |            |
|---|------------|
| <b>9. OUT OF BAND EMISSION AT ANTENNA TERMINALS .....</b>         | <b>131</b> |
| 9.1. Standard Applicable: .....                                   | 132        |
| 9.2. Test SET-UP: .....   | 133        |
| 9.3. Measurement Procedure: .....                                 | 134        |
| 9.4. Measurement Equipment Used: .....                            | 134        |
| 9.5. Measurement Result: .....                                    | 134        |
| <b>10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT .....</b> | <b>331</b> |
| 10.1. Standard Applicable: .....                                  | 331        |
| 10.2. EUT Setup (Block Diagram of Configuration): .....           | 331        |
| 10.3. Measurement Procedure: .....                                | 332        |
| 10.4. Measurement Equipment Used: .....                           | 332        |
| 10.5. Measurement Result: .....                                   | 332        |
| <b>11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT .....</b> | <b>369</b> |
| 11.1. Standard Applicable: .....                                  | 369        |
| 11.2. Test Set-up: .....  | 369        |
| 11.3. Measurement Procedure: .....                                | 370        |
| 11.4. Measurement Equipment Used: .....                           | 370        |
| 11.5. Measurement Result: .....                                   | 371        |
| <b>12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT .....</b>     | <b>384</b> |
| 12.1. Standard Applicable: .....                                  | 384        |
| 12.2. Test Set-up: .....  | 384        |
| 12.3. Measurement Procedure: .....                                | 384        |
| 12.4. Measurement Equipment Used: .....                           | 384        |
| 12.5. Measurement Result: .....                                   | 385        |
| <b>13. PEAK TO AVERAGE RATIO .....</b>                            | <b>397</b> |
| 13.1. Standard Applicable: .....                                  | 397        |
| 13.2. Test SET-UP (Block Diagram of Configuration): .....         | 397        |
| 13.3. Measurement Procedure: .....                                | 397        |
| 13.4. Measurement Equipment Used: .....                           | 397        |
| 13.5. Measurement Result: .....                                   | 397        |
| <b>MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION .....</b>       | <b>435</b> |

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## GENERAL PRODUCT INFORMATION

### 1.1. Product Description

General:

|                          |  |  |
|--------------------------|--|--|
| Product Name:            | Mobile Phone   |  |
| Brand Name:              | Sony   |  |
| Type No.:                | PM-0855-BV   |  |
| Model Difference:        | N/A  |  |
| Data Cable (USB):        | Model No.: EC450, Supplier: K-one<br>Type No.: AI-0700, Length: 100 cm   |  |
| Simple Hands-Free (SHF): | Model No.: MH410c, Supplier: Foster Electric<br>Type No.: AG-1100  |  |
| Car Charger:             | Model No.: AN400, Supplier: Salcomp<br>Type No.: CAA-0003013   |  |
| BT PHF                   | Model No.: SBH20, Supplier: Sony<br>Type No.: RD-0010 coupling with Simple Hands Free (Model No.: MH755, Supplier: BALDA, Type No.: AG-0503) |  |
| Hardware Version:        | A  |  |
| Software Version:        | 25.0.B.0.35  |  |
| Power Supply:            | 3.8Vdc   |  |
|                          | Battery:   | Model No.: LIS1574ERPC, Supplier: Sony<br>Type No.: N/A            |
|                          | Adapter:   | 1. Model No.: EP800, Supplier: Salcomp<br>Type No.: CAA-0002016-US |

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### Bluetooth BR+EDR:

|                      |                                   |
|----------------------|-----------------------------------|
| Bluetooth Version:   | V4.1 dual mode + HS               |
| Channel number:      | 79 channels                       |
| Modulation type:     | Frequency Hopping Spread Spectrum |
| Transmit Power:      | 5.38dBm                           |
| Frequency Range:     | 2.402GHz – 2.480GHz               |
| Dwell Time:          | <= 0.4s                           |
| Antenna Designation: | PIFA Antenna, Gain: 2.52dBi       |

### Bluetooth Low Energy:

|                      |                             |
|----------------------|-----------------------------|
| Frequency Range:     | 2402 – 2480MHz              |
| Bluetooth Version:   | V4.1 dual mode + HS         |
| Channel number:      | 40 channels                 |
| Modulation type:     | GFSK                        |
| Transmit Power:      | -1.49dBm (Peak)             |
| Antenna Designation: | PIFA Antenna, Gain: 2.52dBi |

### WLAN 2.4GHz:

| Wi-Fi                | Frequency Range | Channels   | Rated Power                | Modulation Technology |
|----------------------|-----------------|--|----------------------------|-----------------------|
| 11b/g                | 2412-2462       | 11   | b: 18.87dBm<br>g: 22.66dBm | DSSS, OFDM            |
| 11n                  | HT20 2412-2462  | 11   | HT20: 21.09dBm             | OFDM                  |
| 11n                  | HT40 2422-2452  | 7  | HT40: 22.22dBm             | OFDM                  |
| Antenna Designation: |                 | PIFA Antenna, Gain: 2.52dBi  |                            |                       |
| Modulation type:     |                 | CCK, DQPSK, DBPSK for DSSS<br>64QAM, 16QAM, QPSK, BPSK for OFDM  |                            |                       |
| Transition Rate:     |                 | 802.11 b: 1/2/5.5/11 Mbps;<br>802.11 g: 6/9/12/18/24/36/48/54 Mbps<br>802.11 n 20MHz: 6.5 – 72.2Mbps<br>802.11 n 40MHz: 13.5 – 135Mbps |                            |                       |

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## WLAN 5GHz:

| Wi-Fi               | Frequency Range   | Channels  | Rated Power       | Modulation Technology |
|---------------------|-------------------|---|-------------------|-----------------------|
| 11a                 | 5150~5250         | 4   | 13.96dBm          | OFDM                  |
|                     | 5250~5350         | 4   | 13.99dBm          |                       |
|                     | 5470~5725         | 8   | 13.96dBm          |                       |
|                     | 5725-5850         | 5   | 13.79dBm          |                       |
| 11n                 | HT20<br>5150~5250 | 4   | HT20:<br>12.99dBm | OFDM                  |
|                     | HT20<br>5250~5350 | 4   | HT20:<br>12.95dBm |                       |
|                     | HT20<br>5470~5725 | 8   | HT20:<br>12.99dBm |                       |
|                     | HT20<br>5725-5850 | 5   | HT20:<br>12.79dBm |                       |
| 11n                 | HT40<br>5150~5250 | 2   | HT40:<br>11.95dBm | OFDM                  |
|                     | HT40<br>5250~5350 | 2   | HT40:<br>11.93dBm |                       |
|                     | HT40<br>5470~5725 | 3   | HT40:<br>11.96dBm |                       |
|                     | HT40<br>5725-5850 | 2   | HT40:<br>11.98dBm |                       |
| Antenna Designation |                   | PIFA Antenna,<br>5GHz Gain: -0.54dBi (5150MHz-5250MHz)<br>5GHz Gain: -0.89dBi (5250MHz-5350MHz)<br>5GHz Gain: -0.34dBi (5470MHz-5725MHz)<br>5GHz Gain: -0.19dBi (5725MHz-5850MHz) |                   |                       |
| Modulation type     |                   | 64QAM, 16QAM, QPSK, BPSK for OFDM   |                   |                       |
| Transition Rate:    |                   | 802.11 a: 6/9/12/18/24/36/48/54 Mbps<br>802.11 n_20MHz: 6.5 – 65.0Mbps<br>802.11 n_40MHz: 13.5 – 135.0Mbps  |                   |                       |

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## GSM / WCDMA/ LTE:

| Cellular Phone Standards Frequency Range and Power | Operating Frequency              |                       | Rated Power |
|--|----------------------------------|-----------------------|-------------|
|  | GSM/GPRS 850, Class 12           | 824.2 MHz– 848.8 MHz  | 33dBm       |
|  | EDGE 850, Class 12               | 824.2 MHz– 848.8 MHz  | 27dBm       |
|  | GSM/GPRS 1900, Class 12          | 1850.2MHz – 1909.8MHz | 30dBm       |
|  | EDGE 1900, Class 12              | 1850.2MHz – 1909.8MHz | 26dBm       |
|  | WCDMA/HSUPA/HSDPA /HSPA+ Band II | 1852.4MHz – 1907.6MHz | 24dBm       |
|  | WCDMA/HSUPA/HSDPA /HSPA+ Band V  | 826.4MHz - 846.6MHz   | 24dBm       |
|  | 1.4MHz BW LTE-Band 2             | 1850MHz– 1909.3MHz    | 23dBm       |
|  | 3MHz BW LTE-Band 2               | 1851.5MHz – 1908.5MHz | 23dBm       |
|  | 5MHz BW LTE-Band 2               | 1852.5MHz – 1907.5MHz | 23dBm       |
|  | 10MHz BW LTE-Band 2              | 1855MHz – 1905MHz     | 23dBm       |
|  | 15MHz BW LTE-Band 2              | 1857.5MHz – 1902.5MHz | 23dBm       |
|  | 20MHz BW LTE-Band 2              | 1860MHz – 1900MHz     | 23dBm       |
|  | 1.4MHz BW LTE-Band 5             | 824.7MHz – 848.3MHz   | 23dBm       |
|  | 3MHz BW LTE-Band 5               | 825.5MHz – 847.5MHz   | 23dBm       |
|  | 5MHz BW LTE-Band 5               | 826.5MHz – 846.5MHz   | 23dBm       |
|  | 10MHz BW LTE-Band 5              | 829.0MHz – 844.0MHz   | 23dBm       |

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|                   |   |
|-------------------|---|
| Type of Emission: | GSM 850: 247KGXW, GSM 1900: 250KGXW<br>GPRS 850: 246KGXW, GPRS 1900: 246KGXW<br>EDGE 850: 250KG7W, EDGE 1900: 248KG7W<br>WCDMA Band II: 4M22F9W, WCDMA Band V: 4M23F9W<br>HSDPA Band II: 4M21F9W, HSDPA Band V: 4M23F9W<br>HSUPA Band II: 4M20F9W, HSUPA Band V: 4M23F9W<br>1.4MHz BW LTE-Band 2 QPSK: 1M10G7D<br>1.4MHz BW LTE-Band 2 16QAM: 1M10D7W<br>3MHz BW LTE-Band 2 QPSK: 2M71 G7D<br>3MHz BW LTE-Band 2 16QAM: 2M71D7W<br>5MHz BW LTE-Band 2 QPSK: 4M53 G7D<br>5MHz BW LTE-Band 2 16QAM: 4M53D7W<br>10MHz BW LTE-Band 2 QPSK: 8M99 G7D<br>10MHz BW LTE-Band 2 16QAM: 8M99D7W<br>15MHz BW LTE-Band 2 QPSK: 13M52 G7D<br>15MHz BW LTE-Band 2 16QAM: 13M53D7W<br>20MHz BW LTE-Band 2 QPSK: 18M03 G7D<br>20MHz BW LTE-Band 2 16QAM: 18M00D7W<br>1.4MHz BW LTE-Band 5 QPSK: 1M10 G7D<br>1.4MHz BW LTE-Band 5 16QAM: 1M10D7W<br>3MHz BW LTE-Band 5 QPSK: 2M70 G7D<br>3MHz BW LTE-Band 5 16QAM: 2M70D7W<br>5MHz BW LTE-Band 5 QPSK: 4M53 G7D<br>5MHz BW LTE-Band 5 16QAM: 4M51D7W<br>10MHz BW LTE-Band 5 QPSK: 8M97 G7D<br>10MHz BW LTE-Band 5 16QAM: 8M95D7W |
| IMEI:             | 00440245-380610-5 / 00440245-380611-3   |

This test report applies for 850 /1900 GSM/GPRS/EDGE, WCDMA / HSDPA / HSUPA Band II/IV /V and LTE Band 2 and Band 5. The spread of uplink in HSPA+ supports only up to 42.2 Mbps.

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## Final Amplifier Voltage and Current Information:

| Test Mode | DC voltage (V) | DC current (mA) |
|-----------|----------------|-----------------|
| GSM 850   | 3.8 Vdc        | 366             |
| GSM 1900  | 3.8 Vdc        | 341             |
| GPRS 850  | 3.8 Vdc        | 336             |
| GPRS 1900 | 3.8 Vdc        | 281             |
| EDGE 850  | 3.8 Vdc        | 205             |
| EDGE 1900 | 3.8 Vdc        | 212             |
| WCDMA B2  | 3.8 Vdc        | 674             |
| WCDMA B5  | 3.8 Vdc        | 563             |
| HSUPA B2  | 3.8 Vdc        | 609             |
| HSUPA B5  | 3.8 Vdc        | 502             |
| HSDPA B2  | 3.8 Vdc        | 587             |
| HSDPA B5  | 3.8 Vdc        | 505             |

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|                       |         |     |
|-----------------------|---------|-----|
| LTE Band 2_1.4M QPSK  | 3.8 Vdc | 833 |
| LTE Band 2_1.4M 16QAM | 3.8 Vdc | 748 |
| LTE Band 2_3M QPSK    | 3.8 Vdc | 832 |
| LTE Band 2_3M 16QAM   | 3.8 Vdc | 744 |
| LTE Band 2_5M QPSK    | 3.8 Vdc | 841 |
| LTE Band 2_5M 16QAM   | 3.8 Vdc | 762 |
| LTE Band 2_10M QPSK   | 3.8 Vdc | 832 |
| LTE Band 2_10M 16QAM  | 3.8 Vdc | 755 |
| LTE Band 2_15M QPSK   | 3.8 Vdc | 841 |
| LTE Band 2_15M 16QAM  | 3.8 Vdc | 765 |
| LTE Band 2_20M QPSK   | 3.8 Vdc | 847 |
| LTE Band 2_20M 16QAM  | 3.8 Vdc | 767 |

|                       |         |     |
|-----------------------|---------|-----|
| LTE Band 5_1.4M QPSK  | 3.8 Vdc | 718 |
| LTE Band 5_1.4M 16QAM | 3.8 Vdc | 682 |
| LTE Band 5_3M QPSK    | 3.8 Vdc | 722 |
| LTE Band 5_3M 16QAM   | 3.8 Vdc | 679 |
| LTE Band 5_5M QPSK    | 3.8 Vdc | 721 |
| LTE Band 5_5M 16QAM   | 3.8 Vdc | 683 |
| LTE Band 5_10M QPSK   | 3.8 Vdc | 788 |
| LTE Band 5_10M 16QAM  | 3.8 Vdc | 732 |

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## 1.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: PY7-PM0855** filing to comply with Section Part 22 subpart H, Part 24 subpart E and Part 27 subpart C & subpart L of the FCC CFR 47 Rules.

## 1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures document of TIA/EIA 603C and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

TS 151 010-1 is used to set, and measure the output power.

The Output power Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, WCDMA / HSPA) was used for EUT and Base station setting.

KDB971168 D01 Power Meas license Digital System v01 as the supplemental guideline to conduct the measurement, including Peak to Power Average Ratio, Average Power over the fundamental signal BW (EIRP/ERP) and Signal Bandwidth.

## 1.4. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2009 & ANSI C63.10: 2009. FCC Registration Numbers are: 990257, Canada Registration Number: 4620A-4.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Township, Taoyuan County, Taiwan, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 & 10 meters) and FCC Registration Number: 455997.

## 1.5. Special Accessories

No special accessories were used during testing.

## 1.6. Equipment Modifications

There were no modifications incorporated into the EUT.

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## 2. SYSTEM TEST CONFIGURATION

### 2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2. EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

### 2.3. Test Procedure

#### 2.3.1 Conducted Measurement at Antenna Port:

According to measurement procured TIA/EIA 603C, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

#### 2.3.2 Radiated Emissions (ERP/EIRP):

According to measurement procured TIA/EIA 603C, The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13 of ANSI C63.4:2009 & ANSI C63.10:2009.

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## 2.4. Measurement Equipment Used:

| Conducted Emission (measured at antenna port) Test Site |               |              |               |            |            |
|---|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE  | MFR           | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Power Meter   | Anritsu       | ML2495A      | 1005007       | 01/13/2014 | 01/12/2015 |
| Power Sensor  | Anritsu       | MA2411B      | 917032        | 01/13/2014 | 01/12/2015 |
| Spectrum Analyzer                                       | Agilent       | E4446A       | MY51100003    | 05/19/2014 | 05/18/2015 |
| Spectrum Analyzer                                       | Agilent       | E4440A       | US41160416    | 03/08/2014 | 03/07/2015 |
| Radio Communication Analyzer                            | R & S         | CMU200       | 116097        | 03/11/2014 | 03/10/2015 |
| Radio Communication Analyzer                            | Anritsu       | MT8820C      | 6200995019    | 10/08/2014 | 10/09/2015 |
| Temperature Chamber                                     | TERCHY        | MHG-120LF    | 911009        | 05/07/2014 | 05/06/2015 |
| DC Block  | Mini-Circuits | BLK-18-S+    | 1             | 02/27/2014 | 02/26/2015 |
| Attenuator  | Mini-Circuit  | BW-S10W2+    | 002           | 02/27/2014 | 02/26/2015 |
| Splitter  | Agilent       | 11636B       | N/A           | 02/27/2014 | 02/26/2015 |
| DC Power Supply   | Agilent       | E3640A       | MY52410006    | 11/10/2014 | 11/09/2015 |

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| ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber |                       |              |               |            |            |
|--|-----------------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE                                   | MFR                   | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Spectrum Analyzer                                | Agilent               | E4446A       | MY51100003    | 05/19/2014 | 05/18/2015 |
| EXA Spectrum Analyzer                            | Agilent               | N9010A       | MY50420195    | 01/20/2014 | 01/19/2015 |
| Spectrum Analyzer                                | R&S                   | FSV-30       | 101398        | 10/07/2014 | 10/06/2015 |
| Bilog Antenna                                    | SCHWAZBECK            | VULB9168     | 378           | 01/02/2014 | 01/01/2015 |
| Bilog Antenna                                    | SCHWAZBECK            | VULB9160     | 3158          | 10/31/2014 | 10/30/2015 |
| Horn antenna                                     | ETS.LINDGREN          | 3117         | 123995        | 05/19/2014 | 05/18/2015 |
| Horn antenna                                     | ETS.LINDGREN          | 3117         | 123991        | 01/20/2014 | 01/19/2015 |
| Horn Antenna                                     | Schwarzbeck           | BBHA9170     | 184           | 01/23/2014 | 01/22/2015 |
| Horn Antenna                                     | Schwarzbeck           | BBHA9170     | 185           | 07/29/2014 | 07/28/2015 |
| Network Analyze                                  | Anritsu               | MS4644A      | 1216312       | 05/24/2014 | 05/23/2015 |
| Signal Generator                                 | Agilent               | E4438C       | MY45093613    | 08/06/2014 | 08/05/2015 |
| Pre-Amplifier                                    | Agilent               | 8447D        | 1937A02834    | 01/03/2014 | 01/02/2015 |
| Pre-Amplifier                                    | Agilent               | 8449B        | 3008A00578    | 01/03/2014 | 01/02/2015 |
| Pre-Amplifier                                    | EMC Instruments Corp. | EMC184045    | 980135        | 01/24/2014 | 01/23/2015 |
| Attenuator                                       | Mini-Circuit          | BW-S10W2+    | 004           | 02/27/2014 | 02/26/2015 |
| Radio Communication Analyzer                     | R & S                 | CMU200       | 116097        | 03/11/2014 | 03/10/2015 |
| Radio Communication Analyzer                     | Anritsu               | MT8820C      | 6200995019    | 10/08/2014 | 10/09/2015 |
| Turn Table                                       | HD                    | DT420        | N/A           | N.C.R      | N.C.R      |
| Antenna Tower                                    | HD                    | MA240-N      | 240/657       | N.C.R      | N.C.R      |
| Controller                                       | HD                    | HD100        | N/A           | N.C.R      | N.C.R      |
| Low Loss Cable                                   | HUBER+SUHNER          | 966_Tx       | 10m           | 01/03/2014 | 01/02/2015 |
| Low Loss Cable                                   | HUBER+SUHNER          | 966_Rx       | 3m            | 01/03/2014 | 01/02/2015 |
| Filter 800-1000                                  | Micro-Tronics         | EWT          | M2            | 02/27/2014 | 02/26/2015 |
| Filter 1800-2000                                 | Micro-Tronics         | EWT          | M2            | 02/27/2014 | 02/26/2015 |
| Filter 1700-1800                                 | Micro-Tronics         | BRC15751     | 001           | 02/27/2014 | 02/26/2015 |
| 1GHz High Pass Filter                            | Micro-Tronics         | HPM50108     | 32            | 02/27/2014 | 02/26/2015 |
| 2GHz High Pass Filter                            | Micro-Tronics         | HPM50110     | 36            | 02/27/2014 | 02/26/2015 |
| 3m Site NSA                                      | SGS                   | 966 chamber  | N/A           | 07/15/2014 | 07/14/2015 |

Note: N.C.R refers to Not Calibrated Required

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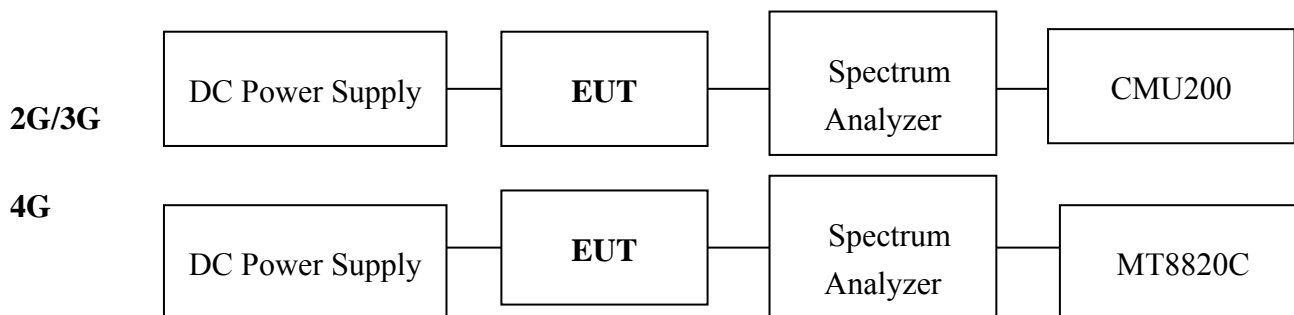
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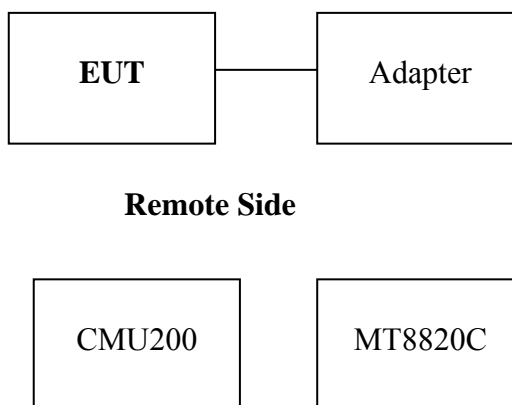


## 2.5. Configuration of Tested System

**Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)**



**Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)**



**Table 2-1 Equipment Used in**

| Item | Equipment                            | Mfr/Brand | Model/<br>Type No. | Series No. | Data Cable | Power Cord  |
|------|--------------------------------------|-----------|--------------------|------------|------------|-------------|
| 1.   | Universal Radio Communication Tester | R&S       | CMU200             | 102189     | shielded   | Un-shielded |
| 2.   | Universal Radio Communication Tester | Anritsu   | MT8820C            | 6200307563 | shielded   | Un-shielded |
| 3.   | DC Power Supply                      | HP        | E3640A             | MY40005907 | shielded   | Un-shielded |

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### 3. SUMMARY OF TEST RESULTS

| FCC Rules                                 | Description Of Test  | Result    |
|---|--|-----------|
| §2.1046(a)                                | RF Power Output  | Compliant |
| §2.1046(a)<br>§22.913(a)(2)<br>§24.232(c) | ERP/ EIRP measurement  | Compliant |
| §2.1049(h)                                | 99% Occupied Bandwidth   | Compliant |
| §2.1051<br>§22.917(a)<br>§24.238(a)       | Out of Band Emissions at<br>Antenna<br>Terminals and Band Edge | Compliant |
| §2.1053<br>§22.917(a)<br>§24.238(a)       | Field Strength of<br>Spurious Radiation                        | Compliant |
| §24.232(d)                                | Peak to Average Ratio  | Compliant |
| §2.1055(a)(1)<br>§22.355<br>§24.235       | Frequency Stability vs.<br>Temperature                         | Compliant |
| §2.1055(d)(1)<br>§22.355<br>§24.235       | Frequency Stability vs.<br>Voltage                             | Compliant |

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Max ERP/EIRP measurement result:

|                | dBm   |      | W     |
|----------------|-------|------|-------|
| GSM 850 Band   | 24.77 | ERP  | 0.300 |
| GSM 1900 Band  | 26.69 | EIRP | 0.467 |
| GPRS 850 Band  | 24.51 | ERP  | 0.282 |
| GPRS 1900 Band | 26.25 | EIRP | 0.422 |
| EDGE 850 Band  | 23.32 | ERP  | 0.215 |
| EDGE 1900 Band | 25.97 | EIRP | 0.395 |
| WCDMA Band II  | 22.71 | EIRP | 0.187 |
| WCDMA Band V   | 19.22 | ERP  | 0.084 |
| HSDPA Band II  | 22.42 | EIRP | 0.175 |
| HSDPA Band V   | 19.01 | ERP  | 0.080 |
| HSUPA Band II  | 22.00 | EIRP | 0.158 |
| HSUPA Band V   | 18.74 | ERP  | 0.075 |

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|  | dBm   |      | W     |
|--|-------|------|-------|
| LTE Band 2/1.4MMz /QPSK RB 1 Offset 0  | 25.18 | EIRP | 0.330 |
| LTE Band 2/1.4MMz /QPSK RB 1 Offset 5  | 25.18 | EIRP | 0.330 |
| LTE Band 2/1.4MMz /16QAM RB 1 Offset 0 | 25.67 | EIRP | 0.369 |
| LTE Band 2/1.4MMz /16QAM RB 1 Offset 5 | 25.89 | EIRP | 0.388 |
| LTE Band 2/3MMz /QPSK RB 1 Offset 0    | 25.08 | EIRP | 0.322 |
| LTE Band 2/3MMz /QPSK RB 1 Offset 14   | 25.11 | EIRP | 0.324 |
| LTE Band 2/3MMz /16QAM RB 1 Offset 0   | 25.76 | EIRP | 0.377 |
| LTE Band 2/3MMz /16QAM RB 1 Offset 14  | 25.65 | EIRP | 0.367 |
| LTE Band 2/5MMz /QPSK RB 1 Offset 0    | 25.19 | EIRP | 0.330 |
| LTE Band 2/5MMz /QPSK RB 1 Offset 24   | 25.12 | EIRP | 0.325 |
| LTE Band 2/5MMz /16QAM RB 1 Offset 0   | 25.79 | EIRP | 0.379 |
| LTE Band 2/5MMz /16QAM RB 1 Offset 24  | 25.70 | EIRP | 0.372 |
| LTE Band 2/10MMz /QPSK RB 1 Offset 0   | 25.03 | EIRP | 0.318 |
| LTE Band 2/10MMz /QPSK RB 1 Offset 49  | 25.30 | EIRP | 0.339 |
| LTE Band 2/10MMz /16QAM RB 1 Offset 0  | 25.86 | EIRP | 0.385 |
| LTE Band 2/10MMz /16QAM RB 1 Offset 49 | 25.98 | EIRP | 0.396 |
| LTE Band 2/15MMz /QPSK RB 1 Offset 0   | 25.18 | EIRP | 0.330 |
| LTE Band 2/15MMz /QPSK RB 1 Offset 74  | 25.30 | EIRP | 0.339 |
| LTE Band 2/15MMz /16QAM RB 1 Offset 0  | 25.82 | EIRP | 0.382 |
| LTE Band 2/15MMz /16QAM RB 1 Offset 74 | 25.95 | EIRP | 0.394 |
| LTE Band 2/20MMz /QPSK RB 1 Offset 0   | 25.37 | EIRP | 0.344 |
| LTE Band 2/20MMz /QPSK RB 1 Offset 99  | 25.22 | EIRP | 0.333 |
| LTE Band 2/20MMz /16QAM RB 1 Offset 0  | 26.02 | EIRP | 0.400 |
| LTE Band 2/20MMz /16QAM RB 1 Offset 99 | 25.91 | EIRP | 0.390 |

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|  | dBm   |     | W     |
|--|-------|-----|-------|
| LTE Band 5/1.4MMz /QPSK RB 1 Offset 0  | 24.13 | ERP | 0.259 |
| LTE Band 5/1.4MMz /QPSK RB 1 Offset 5  | 24.84 | ERP | 0.305 |
| LTE Band 5/1.4MMz /16QAM RB 1 Offset 0 | 24.48 | ERP | 0.281 |
| LTE Band 5/1.4MMz /16QAM RB 1 Offset 5 | 24.71 | ERP | 0.296 |
| LTE Band 5/3MMz /QPSK RB 1 Offset 0    | 23.42 | ERP | 0.220 |
| LTE Band 5/3MMz /QPSK RB 1 Offset 14   | 23.90 | ERP | 0.245 |
| LTE Band 5/3MMz /16QAM RB 1 Offset 0   | 24.14 | ERP | 0.259 |
| LTE Band 5/3MMz /16QAM RB 1 Offset 14  | 24.64 | ERP | 0.291 |
| LTE Band 5/5MMz /QPSK RB 1 Offset 0    | 23.28 | ERP | 0.213 |
| LTE Band 5/5MMz /QPSK RB 1 Offset 24   | 24.07 | ERP | 0.255 |
| LTE Band 5/5MMz /16QAM RB 1 Offset 0   | 24.04 | ERP | 0.254 |
| LTE Band 5/5MMz /16QAM RB 1 Offset 24  | 24.74 | ERP | 0.298 |
| LTE Band 5/10MMz /QPSK RB 1 Offset 0   | 25.02 | ERP | 0.318 |
| LTE Band 5/10MMz /QPSK RB 1 Offset 49  | 24.08 | ERP | 0.256 |
| LTE Band 5/10MMz /16QAM RB 1 Offset 0  | 25.23 | ERP | 0.333 |
| LTE Band 5/10MMz /16QAM RB 1 Offset 49 | 24.65 | ERP | 0.292 |

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#### 4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

EUT was staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

The list of channel selected to conduct the measurements

GSM/GPRS/EDGE 850:

Channel Low: AFRCN 128 at 824.2MHz, Channel Mid: AFRCN 190 at 836.6MHz, Channel High: AFRCN 251 at 848.8MHz.

GSM/GPRS/EDGE 1900:

Channel Low: AFRCN 512 at 1850.2MHz, Channel Mid: AFRCN 661 at 1880.0MHz, Channel High: AFRCN 810 at 1909.8MHz

WCDMA/HSPA BII:

Channel Low: UAFRCN 9262 at 1852.4MHz, Channel Mid: UAFRCN 9400 at 1880.0MHz, Channel High: UAFRCN 9538 at 1907.6MHz.

WCDMA/HSPA BV:

Channel Low: UAFRCN 4132 at 826.4MHz, Channel Mid: UAFRCN 4183 at 836.6MHz, Channel High: UAFRCN 4233 at 846.6MHz.

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### LTE B2

| Test Frequency | Bandwidth<br>[MHz]   | Channel Number | Frequency of Uplink<br>[MHz] |
|----------------|----------------------|----------------|------------------------------|
| Low            | 1.4                  | 18607          | 1850.7                       |
|                | 3                    | 18615          | 1852.5                       |
|                | 5                    | 18625          | 1851.5                       |
|                | 10                   | 18650          | 1855.0                       |
|                | 15                   | 18675          | 1857.5                       |
|                | 20                   | 18700          | 1860.0                       |
| Middle         | 1.4/3/5/10/<br>15/20 | 18900          | 1880.0                       |
| High           | 1.4                  | 19193          | 1909.3                       |
|                | 3                    | 19185          | 1907.5                       |
|                | 5                    | 19175          | 1908.5                       |
|                | 10                   | 19150          | 1905.0                       |
|                | 15                   | 19125          | 1902.5                       |
|                | 20                   | 19100          | 1900.0                       |

### LTE B5:

| Test Frequency | Bandwidth<br>[MHz] | Channel Number | Frequency of Uplink<br>[MHz] |
|----------------|--------------------|----------------|------------------------------|
| Low            | 1.4                | 20407          | 824.7                        |
|                | 3                  | 20415          | 825.5                        |
|                | 5                  | 20425          | 826.5                        |
|                | 10                 | 20450          | 829.0                        |
| Middle         | 1.4/3/<br>5/10     | 20525          | 836.5                        |
| High           | 1.4                | 20643          | 848.3                        |
|                | 3                  | 20643          | 848.3                        |
|                | 5                  | 20625          | 846.5                        |
|                | 10                 | 20600          | 844.0                        |

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for GSM/GPRS/EDGE, WCDMA/HSPA Band II / IV/ V, and LTE Band 2 and Band 5 with power adaptor. The worst-case of H position for GSM 850 / GPRS1900, WCDMA/HSPA Band II / V and LTE Band 5, E2 position for LTE Band 2 were reported.

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**The evaluation of Test Mode as configured in UE presented on the Test Report:****GSM/GPRS/WCDMA/HSPA:****Radiated Spurious Emission**

The Measurement Data of field strength of spurious emission with respect to supported configuration of given application (Transmission Band, Modulation Scheme, Resource Block) have been pre-scanned, and the result that yields in the highest emission close to the limit are presented on the test report.

GSM, WCDMA is the worst-case found in the pre-scanned measurement, and only data that yields the worst case is revealed on the test report.

**LTE:****Radiated Spurious Emission**

The Measurement Data of field strength of spurious emission with respect to supported configuration of given application (Transmission Band, Modulation Scheme, Resource Block) have been pre-scanned, and the result that yields in the highest emission close to the limit are presented on the test report.

**Out of Band Emission at Antenna Terminal, and Bandedge**

In comparison among all Out of Band Emission at Antenna Terminal and Bandedge in the variety of combination on LTE band 2 / 5, respectively, It's revealed to generate the highest emission while RB size = 1 with offset 0 (CSE) and RB size = 1 with offset of both extremity for all supported transmission bandwidth of all supported frequency band. Be aware of that only data measurement that yields the worst measurement with supported modulation scheme (QPSK, 16QAM), QPSK – the worst, is shown on the corresponding section.

**Peak to Average Ratio**

For Peak to Average Ratio test, all combination (RB arrangement with different modulation scheme) has been evaluated, the data with the following configuration: RB number = full and modulation = 16QAM is revealed to generate the worst case result.

Only data that generates the worst-case result is shown on the report.

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## 5. MEASUREMENT UNCERTAINTY

| Test Items  | Uncertainty  |
|---|--|
| RF Power Output   | +/- 1.42 dB  |
| ERP/ EIRP measurement                                       | Vertical Polarization = +/- 4.74dB<br>Horizontal Polarization = +/- 4.62dB |
| 99% Occupied Bandwidth                                      | +/- 123.36 Hz  |
| Out of Band Emissions at Antenna<br>Terminals and Band Edge | +/- 1.55 dB  |
| Peak to Average Ratio                                       | +/- 1.55 dB  |
| Frequency Stability vs. Temperature                         | +/- 123.36 Hz  |
| Frequency Stability vs. Voltage                             | +/- 123.36 Hz  |
| Temperature   | +/- 0.8 °C   |
| Humidity  | +/- 4.7 %  |
| DC / AC Power Source  | DC= +/- 1%, AC= +/- 0.2%   |

### Radiated Spurious Emission:

|  |                            |
|--|----------------------------|
| Measurement uncertainty<br>(Polarization : <b>Vertical</b> ) | 30MHz - 180MHz: +/- 3.37dB |
|  | 180MHz -417MHz: +/- 3.19dB |
|  | 0.417GHz-1GHz: +/- 3.19dB  |
|  | 1GHz - 18GHz: +/- 4.04dB   |
|  | 18GHz - 40GHz: +/- 4.04dB  |

|  |                            |
|--|----------------------------|
| Measurement uncertainty<br>(Polarization : <b>Horizontal</b> ) | 30MHz - 167MHz: +/- 4.22dB |
|  | 167MHz -500MHz: +/- 3.44dB |
|  | 0.5GHz-1GHz: +/- 3.39dB    |
|  | 1GHz - 18GHz: +/- 4.08dB   |
|  | 18GHz - 40GHz: +/- 4.08dB  |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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## 6. RF POWER OUTPUT MEASUREMENT

### 6.1. Standard Applicable:

According to FCC §2.1046.

3GPP Power limitation for HSDPA and HSUPA

#### Maximum Output Powers for HSDPA

| Sub-test in table C.10.1.4 | Power Class 3 |           | Power Class 4 |           |
|----------------------------|---------------|-----------|---------------|-----------|
|                            | Power (dBm)   | Tol (dB)  | Power (dBm)   | Tol (dB)  |
| 1                          | +24           | +1.7/-3.7 | +21           | +2.7/-2.7 |
| 2                          | +24           | +1.7/-3.7 | +21           | +2.7/-2.7 |
| 3                          | +23.5         | +2.2/-3.7 | +20.5         | +3.2/-2.7 |
| 4                          | +23.5         | +2.2/-3.7 | +20.5         | +3.2/-2.7 |

#### Maximum Output Powers for HSUPA

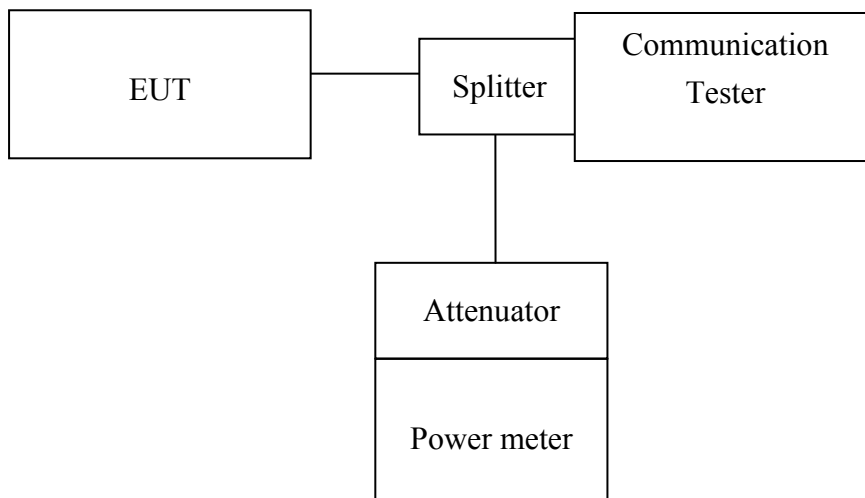
| Sub-test in table C.11.1.3 | Power Class 3 |           | Power Class 4 |           |
|----------------------------|---------------|-----------|---------------|-----------|
|                            | Power (dBm)   | Tol (dB)  | Power (dBm)   | Tol (dB)  |
| 1                          | +24           | +1.7/-6.7 | +21           | +2.7/-5.7 |
| 2                          | +22           | +3.7/-5.2 | +19           | +4.7/-4.2 |
| 3                          | +23           | +2.7/-5.2 | +20           | +3.7/-4.2 |
| 4                          | +22           | +3.7/-5.2 | +19           | +4.7/-4.2 |
| 5                          | +24           | +1.7/-6.7 | +21           | +2.7/-5.7 |

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## 6.2. Test Set-up:



*Note: Measurement setup for testing on Antenna connector*

## 6.3. Measurement Procedure:

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

Necessary Communication complying with 24.232 (c) and 27.50(d)(4)

Set CMU200 (base-station simulator) MS Signal with packet data submenu; SLOT Configuration

Set appropriate level to verify if or not power on mobile station's link with simulator still exists.

## 6.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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## 6.5. Measurement Result:

### 6.5.1. RF Conducted Output Power

#### 6.5.1.1.: GSM/GPRS/EDGE (GMSK; 8-PSK)

#### Result:

| EUT Mode | Frequency<br>(MHz) | CH  | Peak Power<br>(dBm) | Averager Burst Power<br>(dBm) |
|----------|--------------------|-----|---------------------|-------------------------------|
| GSM 850  | 824.2              | 128 | 32.50               | 32.40                         |
|          | 836.6              | 190 | 32.70               | 32.50                         |
|          | 848.8              | 251 | <b>32.80</b>        | 32.60                         |

| EUT Mode | Frequency<br>(MHz) | CH  | Peak Power<br>(dBm) | Averager Burst Power<br>(dBm) |
|----------|--------------------|-----|---------------------|-------------------------------|
| GSM 1900 | 1850.2             | 512 | 29.70               | 29.60                         |
|          | 1880.0             | 661 | 29.70               | 29.60                         |
|          | 1909.8             | 810 | <b>30.00</b>        | 29.90                         |

| EUT Mode | Frequency<br>(MHz) | CH  | Peak Power<br>(4DN 1UP)<br>Class 8<br>(dBm) | Average<br>Burst Power<br>(4DN 1UP)<br>Class 8<br>(dBm) | Peak Power<br>(4DN 2UP)<br>Class 10<br>(dBm) | Average<br>Burst Power<br>(4DN 2UP)<br>Class 10<br>(dBm) |
|----------|--------------------|-----|---|---|--|--|
| GPRS 850 | 824.2              | 128 | 32.50                                       | 32.40   | 29.20  | 29.10  |
|          | 836.6              | 190 | 32.60                                       | 32.50   | 29.40  | 29.20  |
|          | 848.8              | 251 | <b>32.80</b>                                | 32.60   | 29.60  | 29.40  |

| EUT Mode | Frequency<br>(MHz) | CH  | Peak Power<br>(4DN 3UP)<br>Class 12<br>(dBm) | Average<br>Burst Power<br>(4DN 3UP)<br>Class 12<br>(dBm) | Peak Power<br>(4DN 4UP)<br>Class 12<br>(dBm) | Average<br>Burst Power<br>(4DN 4UP)<br>Class 12<br>(dBm) |
|----------|--------------------|-----|--|--|--|--|
| GPRS 850 | 824.2              | 128 | 27.70  | 27.60  | 26.90  | 26.80  |
|          | 836.6              | 190 | 27.80  | 27.70  | 27.00  | 26.90  |
|          | 848.8              | 251 | 28.10  | 27.90  | 27.20  | 27.10  |

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| EUT Mode  | Frequency<br>(MHz) | CH  | Peak Power<br>(4DN 1UP)<br>Class 8<br>(dBm) | Average<br>Burst Power<br>(4DN 1UP)<br>Class 8<br>(dBm) | Peak Power<br>(4DN 2UP)<br>Class 10<br>(dBm) | Average<br>Burst Power<br>(4DN 2UP)<br>Class 10<br>(dBm) |
|-----------|--------------------|-----|---|---|--|--|
| GPRS 1900 | 1850.2             | 512 | 29.70                                       | 29.60   | 26.40  | 26.20  |
|           | 1880.0             | 661 | 29.70                                       | 29.60   | 26.30  | 26.20  |
|           | 1909.8             | 810 | <b>30.00</b>                                | 29.90   | 26.70  | 26.50  |

| EUT Mode  | Frequency<br>(MHz) | CH  | Peak Power<br>(4DN 3UP)<br>Class 12<br>(dBm) | Average<br>Burst Power<br>(4DN 3UP)<br>Class 12<br>(dBm) | Peak Power<br>(4DN 4UP)<br>Class 12<br>(dBm) | Average<br>Burst Power<br>(4DN 4UP)<br>Class 12<br>(dBm) |
|-----------|--------------------|-----|--|--|--|--|
| GPRS 1900 | 1850.2             | 512 | 24.60  | 24.40  | 24.00  | 23.90  |
|           | 1880.0             | 661 | 24.50  | 24.40  | 24.00  | 23.80  |
|           | 1909.8             | 810 | 24.90  | 24.70  | 24.30  | 24.20  |

| EUT Mode | Frequency<br>(MHz) | CH  | Peak Power<br>(4DN 1UP)<br>Class 8<br>(dBm) | Average<br>Burst Power<br>(4DN 1UP)<br>Class 8<br>(dBm) | Peak Power<br>(4DN 2UP)<br>Class 10<br>(dBm) | Average<br>Burst Power<br>(4DN 2UP)<br>Class 10<br>(dBm) |
|----------|--------------------|-----|---|---|--|--|
| EDGE 850 | 824.2              | 128 | 30.60                                       | 27.50   | 27.80  | 24.50  |
|          | 836.6              | 190 | 30.80                                       | 27.60   | 27.70  | 24.60  |
|          | 848.8              | 251 | <b>30.80</b>                                | 27.60   | 28.00  | 24.70  |

| EUT Mode | Frequency<br>(MHz) | CH  | Peak Power<br>(4DN 3UP)<br>Class 12<br>(dBm) | Average<br>Burst Power<br>(4DN 3UP)<br>Class 12<br>(dBm) | Peak Power<br>(4DN 4UP)<br>Class 12<br>(dBm) | Average<br>Burst Power<br>(4DN 4UP)<br>Class 12<br>(dBm) |
|----------|--------------------|-----|--|--|--|--|
| EDGE 850 | 824.2              | 128 | 26.20  | 23.10  | 27.50  | 24.30  |
|          | 836.6              | 190 | 26.30  | 23.10  | 27.50  | 24.40  |
|          | 848.8              | 251 | 26.40  | 23.20  | 27.80  | 24.50  |

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| EUT Mode  | Frequency<br>(MHz) | CH  | Peak Power<br>(4DN 1UP)<br>Class 8<br>(dBm) | Average<br>Burst Power<br>(4DN 1UP)<br>Class 8<br>(dBm) | Peak Power<br>(1DN 2UP)<br>Class 10<br>(dBm) | Average<br>Burst Power<br>(1DN 2UP)<br>Class 10<br>(dBm) |
|-----------|--------------------|-----|---|---|--|--|
| EDGE 1900 | 1850.2             | 512 | 29.90                                       | 26.90   | 27.20  | 24.00  |
|           | 1880.0             | 661 | 29.70                                       | 26.70   | 27.00  | 23.90  |
|           | 1909.8             | 810 | <b>29.90</b>                                | 27.00   | 27.30  | 24.20  |

| EUT Mode  | Frequency<br>(MHz) | CH  | Peak Power<br>(1DN 3UP)<br>Class 12<br>(dBm) | Average<br>Burst Power<br>(1DN 3UP)<br>Class 12<br>(dBm) | Peak Power<br>(1DN 4UP)<br>Class 12<br>(dBm) | Average<br>Burst Power<br>(1DN 4UP)<br>Class 12<br>(dBm) |
|-----------|--------------------|-----|--|--|--|--|
| EDGE 1900 | 1850.2             | 512 | 26.30  | 23.00  | 25.10  | 21.90  |
|           | 1880.0             | 661 | 26.20  | 22.90  | 25.00  | 21.80  |
|           | 1909.8             | 810 | 26.40  | 23.20  | 25.20  | 22.10  |

Cable loss offset Low Band: 13.7dB

Cable loss offset High Band: 14dB

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### 6.5.1.2.: WCDMA mode

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 V8.4.0 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

#### Results:

| EUT Mode         | Frequency<br>(MHz) | CH   | Peak Power<br>(dBm) | Avg. Power<br>(dBm) |
|------------------|--------------------|------|---------------------|---------------------|
| WCDMA<br>Band II | 1852.4             | 9262 | 26.91               | 24.06               |
|                  | 1880.0             | 9400 | <b>27.10</b>        | 24.12               |
|                  | 1907.6             | 9538 | 26.87               | 24.44               |

| EUT Mode        | Frequency<br>(MHz) | CH   | Peak Power<br>(dBm) | Avg. Power<br>(dBm) |
|-----------------|--------------------|------|---------------------|---------------------|
| WCDMA<br>Band V | 826.4              | 4132 | <b>27.68</b>        | 24.49               |
|                 | 836.6              | 4183 | 27.66               | 24.46               |
|                 | 846.6              | 4233 | 27.39               | 24.33               |

| EUT Mode         | Frequency<br>(MHz) | CH   | Peak Power<br>(dBm) | Avg. Power<br>(dBm) |
|------------------|--------------------|------|---------------------|---------------------|
| HSDPA<br>Band II | 1852.4             | 9262 | 26.36               | 22.93               |
|                  | 1880.0             | 9400 | 26.57               | 23.01               |
|                  | 1907.6             | 9538 | <b>26.70</b>        | 23.37               |

| EUT Mode        | Frequency<br>(MHz) | CH   | Peak Power<br>(dBm) | Avg. Power<br>(dBm) |
|-----------------|--------------------|------|---------------------|---------------------|
| HSDPA<br>Band V | 826.4              | 4132 | 27.08               | 23.50               |
|                 | 836.6              | 4183 | <b>27.09</b>        | 23.41               |
|                 | 846.6              | 4233 | 26.90               | 23.16               |

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| EUT Mode         | Frequency<br>(MHz) | CH   | Peak Power<br>(dBm) | Avg. Power<br>(dBm) |
|------------------|--------------------|------|---------------------|---------------------|
| HSUPA<br>Band II | 1852.4             | 9262 | 26.37               | 22.94               |
|                  | 1880.0             | 9400 | 26.61               | 23.04               |
|                  | 1907.6             | 9538 | <b>26.67</b>        | 23.39               |

| EUT Mode        | Frequency<br>(MHz) | CH   | Peak Power<br>(dBm) | Avg. Power<br>(dBm) |
|-----------------|--------------------|------|---------------------|---------------------|
| HSUPA<br>Band V | 826.4              | 4132 | <b>27.08</b>        | 23.53               |
|                 | 836.6              | 4183 | 27.07               | 23.41               |
|                 | 846.6              | 4233 | 26.88               | 23.12               |

Note: The results above reflect max power with all up bits.

Cable loss offset Low Band: 13.7dB

Cable loss offset High Band: 14dB

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### 6.5.1.3: MPR Table

#### LTE Band 2\_1.4MHz

| BW<br>(MHz) | Modulation | Channel | Frequency<br>(MHz) | RB<br>Size | RB<br>Offset | Conducted<br>power<br>(dBm) |
|-------------|------------|---------|--------------------|------------|--------------|-----------------------------|
| 1.4         | QPSK       | 18607   | 1850.7             | 1          | 0            | 23.85                       |
|             |            |         |                    | 1          | 5            | 23.96                       |
|             |            |         |                    | 3          | 2            | 23.95                       |
|             |            |         |                    | 6          | 0            | 23.05                       |
|             |            | 18900   | 1880.0             | 1          | 0            | 23.98                       |
|             |            |         |                    | 1          | 5            | 23.97                       |
|             |            |         |                    | 3          | 2            | 23.98                       |
|             |            |         |                    | 6          | 0            | 23.07                       |
|             |            | 19193   | 1909.3             | 1          | 0            | <b>24.18</b>                |
|             |            |         |                    | 1          | 5            | 24.11                       |
|             |            |         |                    | 3          | 3            | 23.95                       |
|             |            |         |                    | 6          | 0            | 23.34                       |
| 1.4         | 16 QAM     | 18607   | 1850.7             | 1          | 0            | 23.29                       |
|             |            |         |                    | 1          | 5            | 23.31                       |
|             |            |         |                    | 3          | 2            | 22.97                       |
|             |            |         |                    | 6          | 0            | 22.19                       |
|             |            | 18900   | 1880.0             | 1          | 0            | 23.37                       |
|             |            |         |                    | 1          | 5            | 23.38                       |
|             |            |         |                    | 3          | 3            | 22.98                       |
|             |            |         |                    | 6          | 0            | 22.22                       |
|             |            | 19193   | 1909.3             | 1          | 0            | 23.42                       |
|             |            |         |                    | 1          | 5            | 23.17                       |
|             |            |         |                    | 3          | 2            | 22.94                       |
|             |            |         |                    | 6          | 0            | 22.29                       |

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## LTE Band 2\_3MHz

| BW (MHz) | Modulation | Channel | Frequency (MHz) | RB Size | RB Offset | Conducted power (dBm) |
|----------|------------|---------|-----------------|---------|-----------|-----------------------|
| 3        | QPSK       | 18615   | 1851.5          | 1       | 0         | 23.97                 |
|          |            |         |                 | 1       | 14        | 23.87                 |
|          |            |         |                 | 8       | 4         | 22.99                 |
|          |            |         |                 | 15      | 0         | 23.06                 |
|          |            | 18900   | 1880.0          | 1       | 0         | 23.92                 |
|          |            |         |                 | 1       | 14        | 23.95                 |
|          |            |         |                 | 8       | 4         | 23.07                 |
|          |            |         |                 | 15      | 0         | 23.09                 |
|          |            | 19185   | 1908.5          | 1       | 0         | <b>24.18</b>          |
|          |            |         |                 | 1       | 14        | 24.11                 |
|          |            |         |                 | 8       | 4         | 23.27                 |
|          |            |         |                 | 15      | 0         | 23.33                 |
| 3        | 16 QAM     | 18615   | 1851.5          | 1       | 0         | 22.96                 |
|          |            |         |                 | 1       | 14        | 22.92                 |
|          |            |         |                 | 8       | 4         | 22.13                 |
|          |            |         |                 | 15      | 0         | 22.07                 |
|          |            | 18900   | 1880.0          | 1       | 0         | 23.38                 |
|          |            |         |                 | 1       | 14        | 23.04                 |
|          |            |         |                 | 8       | 4         | 22.16                 |
|          |            |         |                 | 15      | 0         | 22.09                 |
|          |            | 19185   | 1908.5          | 1       | 0         | 23.47                 |
|          |            |         |                 | 1       | 14        | 23.37                 |
|          |            |         |                 | 8       | 4         | 22.32                 |
|          |            |         |                 | 15      | 0         | 22.28                 |

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## LTE Band 2\_5MHz

| BW<br>(MHz) | Modulation | Channel | Frequency<br>(MHz) | RB<br>Size | RB<br>Offset | Conducted<br>power<br>(dBm) |
|-------------|------------|---------|--------------------|------------|--------------|-----------------------------|
| 5           | QPSK       | 18625   | 1852.5             | 1          | 0            | 23.89                       |
|             |            |         |                    | 1          | 24           | 23.91                       |
|             |            |         |                    | 12         | 6            | 23.02                       |
|             |            |         |                    | 25         | 0            | 22.98                       |
|             |            | 18900   | 1880.0             | 1          | 0            | 24.01                       |
|             |            |         |                    | 1          | 24           | 23.93                       |
|             |            |         |                    | 12         | 6            | 23.07                       |
|             |            |         |                    | 25         | 0            | 23.02                       |
|             |            | 19175   | 1907.5             | 1          | 0            | <b>24.25</b>                |
|             |            |         |                    | 1          | 24           | 24.12                       |
|             |            |         |                    | 12         | 6            | 23.26                       |
|             |            |         |                    | 25         | 0            | 23.25                       |
| 5           | 16 QAM     | 18625   | 1852.5             | 1          | 0            | 23.01                       |
|             |            |         |                    | 1          | 24           | 23.24                       |
|             |            |         |                    | 12         | 6            | 22.06                       |
|             |            |         |                    | 25         | 0            | 22.06                       |
|             |            | 18900   | 1880.0             | 1          | 0            | 23.41                       |
|             |            |         |                    | 1          | 24           | 23.35                       |
|             |            |         |                    | 12         | 6            | 22.12                       |
|             |            |         |                    | 25         | 0            | 22.01                       |
|             |            | 19175   | 1907.5             | 1          | 0            | 23.55                       |
|             |            |         |                    | 1          | 24           | 23.38                       |
|             |            |         |                    | 12         | 6            | 22.28                       |
|             |            |         |                    | 25         | 0            | 22.21                       |

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## LTE Band 2\_10MHz

| BW<br>(MHz) | Modulation | Channel | Frequency<br>(MHz) | RB<br>Size | RB<br>Offset | Conducted<br>power<br>(dBm) |
|-------------|------------|---------|--------------------|------------|--------------|-----------------------------|
| 10          | QPSK       | 18650   | 1855.0             | 1          | 0            | 24.09                       |
|             |            |         |                    | 1          | 49           | 23.93                       |
|             |            |         |                    | 25         | 12           | 22.95                       |
|             |            |         |                    | 50         | 0            | 23.05                       |
|             |            | 18900   | 1880.0             | 1          | 0            | 24.07                       |
|             |            |         |                    | 1          | 49           | 24.02                       |
|             |            |         |                    | 25         | 12           | 23.03                       |
|             |            |         |                    | 50         | 0            | 23.03                       |
|             |            | 19150   | 1905.0             | 1          | 0            | 24.17                       |
|             |            |         |                    | 1          | 49           | <b>24.18</b>                |
|             |            |         |                    | 25         | 12           | 23.24                       |
|             |            |         |                    | 50         | 0            | 23.34                       |
| 10          | 16 QAM     | 18650   | 1855.0             | 1          | 0            | 23.41                       |
|             |            |         |                    | 1          | 49           | 23.04                       |
|             |            |         |                    | 25         | 12           | 21.91                       |
|             |            |         |                    | 50         | 0            | 21.99                       |
|             |            | 18900   | 1880.0             | 1          | 0            | 23.36                       |
|             |            |         |                    | 1          | 49           | 23.08                       |
|             |            |         |                    | 25         | 12           | 21.99                       |
|             |            |         |                    | 50         | 0            | 22.05                       |
|             |            | 19150   | 1905.0             | 1          | 0            | 23.35                       |
|             |            |         |                    | 1          | 49           | 23.18                       |
|             |            |         |                    | 25         | 12           | 22.17                       |
|             |            |         |                    | 50         | 0            | 22.26                       |

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## LTE Band 2\_15MHz

| BW<br>(MHz) | Modulation | Channel | Frequency<br>(MHz) | RB<br>Size | RB<br>Offset | Conducted<br>power<br>(dBm) |
|-------------|------------|---------|--------------------|------------|--------------|-----------------------------|
| 15          | QPSK       | 18675   | 1857.5             | 1          | 0            | 24.04                       |
|             |            |         |                    | 1          | 74           | 23.84                       |
|             |            |         |                    | 36         | 19           | 23.02                       |
|             |            |         |                    | 75         | 0            | 23.05                       |
|             |            | 18900   | 1880.0             | 1          | 0            | 24                          |
|             |            |         |                    | 1          | 74           | 23.94                       |
|             |            |         |                    | 36         | 19           | 23.05                       |
|             |            |         |                    | 75         | 0            | 23.11                       |
|             |            | 19125   | 1902.5             | 1          | 0            | 24.07                       |
|             |            |         |                    | 1          | 74           | <b>24.13</b>                |
|             |            |         |                    | 36         | 19           | 23.26                       |
|             |            |         |                    | 75         | 0            | 23.28                       |
| 15          | 16 QAM     | 18675   | 1857.5             | 1          | 0            | 22.89                       |
|             |            |         |                    | 1          | 74           | 23                          |
|             |            |         |                    | 36         | 19           | 22.06                       |
|             |            |         |                    | 75         | 0            | 22.02                       |
|             |            | 18900   | 1880.0             | 1          | 0            | 23.17                       |
|             |            |         |                    | 1          | 74           | 23.06                       |
|             |            |         |                    | 36         | 19           | 22.11                       |
|             |            |         |                    | 75         | 0            | 22.07                       |
|             |            | 19125   | 1902.5             | 1          | 0            | 23.12                       |
|             |            |         |                    | 1          | 74           | 23.11                       |
|             |            |         |                    | 36         | 19           | 22.29                       |
|             |            |         |                    | 75         | 0            | 22.21                       |

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## LTE Band 4\_20MHz

| BW<br>(MHz) | Modulation | Channel | Frequency<br>(MHz) | RB<br>Size | RB<br>Offset | Conducted<br>power<br>(dBm) |
|-------------|------------|---------|--------------------|------------|--------------|-----------------------------|
| 20          | QPSK       | 18700   | 1860.0             | 1          | 0            | 23.96                       |
|             |            |         |                    | 1          | 99           | 23.85                       |
|             |            |         |                    | 50         | 25           | 22.97                       |
|             |            |         |                    | 100        | 0            | 22.97                       |
|             |            | 18900   | 1880.0             | 1          | 0            | 24.04                       |
|             |            |         |                    | 1          | 99           | 23.97                       |
|             |            |         |                    | 50         | 25           | 23.06                       |
|             |            |         |                    | 100        | 0            | 23.01                       |
|             |            | 19100   | 1900.0             | 1          | 0            | 24.09                       |
|             |            |         |                    | 1          | 99           | <b>24.18</b>                |
|             |            |         |                    | 50         | 25           | 23.26                       |
|             |            |         |                    | 100        | 0            | 23.16                       |
| 20          | 16 QAM     | 18700   | 1860.0             | 1          | 0            | 22.87                       |
|             |            |         |                    | 1          | 99           | 22.77                       |
|             |            |         |                    | 50         | 25           | 21.98                       |
|             |            |         |                    | 100        | 0            | 21.97                       |
|             |            | 18900   | 1880.0             | 1          | 0            | 23.03                       |
|             |            |         |                    | 1          | 99           | 22.76                       |
|             |            |         |                    | 50         | 25           | 22.01                       |
|             |            |         |                    | 100        | 0            | 22.04                       |
|             |            | 19100   | 1900.0             | 1          | 0            | 22.93                       |
|             |            |         |                    | 1          | 99           | 22.9                        |
|             |            |         |                    | 50         | 25           | 22.22                       |
|             |            |         |                    | 100        | 0            | 22.12                       |

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## LTE Band 5\_1.4MHz

| BW<br>(MHz) | Modulation | Channel | Frequency<br>(MHz) | RB<br>Size | RB<br>Offset | Conducted<br>power<br>(dBm) |
|-------------|------------|---------|--------------------|------------|--------------|-----------------------------|
| 1.4         | QPSK       | 20407   | 824.7              | 1          | 0            | <b>24</b>                   |
|             |            |         |                    | 1          | 5            | 23.95                       |
|             |            |         |                    | 3          | 2            | 23.97                       |
|             |            |         |                    | 6          | 0            | 23.06                       |
|             |            | 20525   | 836.5              | 1          | 0            | 23.92                       |
|             |            |         |                    | 1          | 5            | 23.9                        |
|             |            |         |                    | 3          | 2            | 23.87                       |
|             |            |         |                    | 6          | 0            | 22.92                       |
|             |            | 20643   | 848.3              | 1          | 0            | 23.95                       |
|             |            |         |                    | 1          | 5            | 23.96                       |
|             |            |         |                    | 3          | 3            | 23.91                       |
|             |            |         |                    | 6          | 0            | 22.98                       |
| 1.4         | 16 QAM     | 20407   | 824.7              | 1          | 0            | 23.3                        |
|             |            |         |                    | 1          | 5            | 23.43                       |
|             |            |         |                    | 3          | 2            | 22.99                       |
|             |            |         |                    | 6          | 0            | 22.28                       |
|             |            | 20525   | 836.5              | 1          | 0            | 23.28                       |
|             |            |         |                    | 1          | 5            | 23.14                       |
|             |            |         |                    | 3          | 3            | 22.98                       |
|             |            |         |                    | 6          | 0            | 22.05                       |
|             |            | 20643   | 848.3              | 1          | 0            | 23.24                       |
|             |            |         |                    | 1          | 5            | 23.16                       |
|             |            |         |                    | 3          | 2            | 22.95                       |
|             |            |         |                    | 6          | 0            | 22.13                       |

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# LTE Band 5\_3MHz

| BW (MHz) | Modulation | Channel | Frequency (MHz) | RB Size | RB Offset | Conducted power (dBm) |
|----------|------------|---------|-----------------|---------|-----------|-----------------------|
| 3        | QPSK       | 20800   | 2505.0          | 1       | 0         | <b>24.1</b>           |
|          |            |         |                 | 1       | 14        | 24.01                 |
|          |            |         |                 | 8       | 4         | 23.17                 |
|          |            |         |                 | 15      | 0         | 23.1                  |
|          |            | 21100   | 2535.0          | 1       | 0         | 23.84                 |
|          |            |         |                 | 1       | 14        | 23.82                 |
|          |            |         |                 | 8       | 4         | 23                    |
|          |            |         |                 | 15      | 0         | 22.92                 |
|          |            | 21400   | 2565.0          | 1       | 0         | 23.96                 |
|          |            |         |                 | 1       | 14        | 23.79                 |
|          |            |         |                 | 8       | 4         | 23.09                 |
|          |            |         |                 | 15      | 0         | 23.03                 |
| 3        | 16 QAM     | 20800   | 2505.0          | 1       | 0         | 23.29                 |
|          |            |         |                 | 1       | 14        | 23.33                 |
|          |            |         |                 | 8       | 4         | 22.27                 |
|          |            |         |                 | 15      | 0         | 22.17                 |
|          |            | 21100   | 2535.0          | 1       | 0         | 23.34                 |
|          |            |         |                 | 1       | 14        | 23.14                 |
|          |            |         |                 | 8       | 4         | 22.1                  |
|          |            |         |                 | 15      | 0         | 21.88                 |
|          |            | 21400   | 2565.0          | 1       | 0         | 23.38                 |
|          |            |         |                 | 1       | 14        | 23.21                 |
|          |            |         |                 | 8       | 4         | 22.05                 |
|          |            |         |                 | 15      | 0         | 22.02                 |

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## LTE Band 5\_5MHz

| BW (MHz) | Modulation | Channel | Frequency (MHz) | RB Size | RB Offset | Conducted power (dBm) |
|----------|------------|---------|-----------------|---------|-----------|-----------------------|
| 5        | QPSK       | 20425   | 826.5           | 1       | 0         | 24.33                 |
|          |            |         |                 | 1       | 24        | 24.33                 |
|          |            |         |                 | 12      | 6         | 23.4                  |
|          |            |         |                 | 25      | 0         | 23.37                 |
|          |            | 20525   | 836.5           | 1       | 0         | 24.28                 |
|          |            |         |                 | 1       | 24        | 24.26                 |
|          |            |         |                 | 12      | 6         | 23.34                 |
|          |            |         |                 | 25      | 0         | 23.28                 |
|          |            | 20625   | 846.5           | 1       | 0         | <b>24.38</b>          |
|          |            |         |                 | 1       | 24        | 24.31                 |
|          |            |         |                 | 12      | 6         | 23.42                 |
|          |            |         |                 | 25      | 0         | 23.4                  |
| 5        | 16 QAM     | 20425   | 826.5           | 1       | 0         | 23.89                 |
|          |            |         |                 | 1       | 24        | 23.41                 |
|          |            |         |                 | 12      | 6         | 22.47                 |
|          |            |         |                 | 25      | 0         | 22.49                 |
|          |            | 20525   | 836.5           | 1       | 0         | 23.73                 |
|          |            |         |                 | 1       | 24        | 23.4                  |
|          |            |         |                 | 12      | 6         | 22.43                 |
|          |            |         |                 | 25      | 0         | 22.3                  |
|          |            | 20625   | 846.5           | 1       | 0         | 23.54                 |
|          |            |         |                 | 1       | 24        | 23.74                 |
|          |            |         |                 | 12      | 6         | 22.52                 |
|          |            |         |                 | 25      | 0         | 22.38                 |

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# LTE Band 5\_10MHz

| BW (MHz) | Modulation | Channel | Frequency (MHz) | RB Size | RB Offset | Conducted power (dBm) |
|----------|------------|---------|-----------------|---------|-----------|-----------------------|
| 10       | QPSK       | 20450   | 829.0           | 1       | 0         | 24.36                 |
|          |            |         |                 | 1       | 49        | 24.27                 |
|          |            |         |                 | 25      | 12        | 23.33                 |
|          |            |         |                 | 50      | 0         | 23.37                 |
|          |            | 20525   | 836.5           | 1       | 0         | 24.36                 |
|          |            |         |                 | 1       | 49        | 24.29                 |
|          |            |         |                 | 25      | 12        | 23.28                 |
|          |            |         |                 | 50      | 0         | 23.27                 |
|          |            | 20600   | 844.0           | 1       | 0         | <b>24.37</b>          |
|          |            |         |                 | 1       | 49        | 24.27                 |
|          |            |         |                 | 25      | 12        | 23.31                 |
|          |            |         |                 | 50      | 0         | 23.31                 |
| 10       | 16 QAM     | 20450   | 829             | 1       | 0         | 23.57                 |
|          |            |         |                 | 1       | 49        | 23.39                 |
|          |            |         |                 | 25      | 12        | 22.44                 |
|          |            |         |                 | 50      | 0         | 22.38                 |
|          |            | 20525   | 836.5           | 1       | 0         | 23.42                 |
|          |            |         |                 | 1       | 49        | 23.48                 |
|          |            |         |                 | 25      | 12        | 22.43                 |
|          |            |         |                 | 50      | 0         | 22.31                 |
|          |            | 20600   | 844.0           | 1       | 0         | 23.48                 |
|          |            |         |                 | 1       | 49        | 23.38                 |
|          |            |         |                 | 25      | 12        | 22.44                 |
|          |            |         |                 | 50      | 0         | 22.34                 |

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#### 6.5.1.4:HSDPA Release 6 mode

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing.

#### HSDPA SUB-TEST Setting

Table C.10.1.4:  $\beta$  values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

| Sub-test | $\beta_c$         | $\beta_a$         | $\beta_a$<br>(SF) | $\beta_c/\beta_a$ | $\beta_{HS}$<br>(Note 1,<br>Note 2) | CM (dB)<br>(Note 3) | MPR<br>(dB)<br>(Note 3) | RMC<br>(Kbps) |
|----------|-------------------|-------------------|-------------------|-------------------|-------------------------------------|---------------------|-------------------------|---------------|
| 1        | 2/15              | 15/15             | 64                | 2/15              | 4/15                                | 0.0                 | 0.0                     | 12.2          |
| 2        | 12/15<br>(Note 4) | 15/15<br>(Note 4) | 64                | 12/15<br>(Note 4) | 24/15                               | 1.0                 | 0.0                     | 12.2          |
| 3        | 15/15             | 8/15              | 64                | 15/8              | 30/15                               | 1.5                 | 0.5                     | 12.2          |
| 4        | 15/15             | 4/15              | 64                | 15/4              | 30/15                               | 1.5                 | 0.5                     | 12.2          |

**Note:** The recommended HSDPA MPRs are implemented as per following sub-tests.

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## Results:

Tests:

| Mode          | Sub-test | Avg. Power (dBm) |       |       | Power Class 3 Limita-<br>tion (dBm) | Comments |
|---------------|----------|------------------|-------|-------|-------------------------------------|----------|
|               |          | Channel          |       |       |                                     |          |
|               |          | 9262             | 9400  | 9538  |                                     |          |
| HSDPA<br>(B2) | 1        | 24.28            | 24.37 | 24.63 | 20.3dBm – 25.7dBm                   | Pass     |
|               | 2        | 23.99            | 24.01 | 24.31 | 20.3dBm – 25.7dBm                   | Pass     |
|               | 3        | 23.82            | 23.89 | 24.14 | 19.8dBm – 25.7dBm                   | Pass     |
|               | 4        | 23.87            | 23.93 | 24.20 | 19.8dBm – 25.7dBm                   | Pass     |

| Mode          | Sub-test | Avg. Power (dBm) |       |       | Power Class 3 Limita-<br>tion (dBm) | Comments |
|---------------|----------|------------------|-------|-------|-------------------------------------|----------|
|               |          | Channel          |       |       |                                     |          |
|               |          | 4132             | 4183  | 4233  |                                     |          |
| HSDPA<br>(B5) | 1        | 24.71            | 24.71 | 24.52 | 20.3dBm – 25.7dBm                   | Pass     |
|               | 2        | 24.42            | 24.35 | 24.20 | 20.3dBm – 25.7dBm                   | Pass     |
|               | 3        | 24.25            | 24.23 | 24.03 | 19.8dBm – 25.7dBm                   | Pass     |
|               | 4        | 24.30            | 24.27 | 24.09 | 19.8dBm – 25.7dBm                   | Pass     |

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#### 6.5.1.4.: HSPA (HSDPA & HSUPA) Release 6 mode

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 V8.4.0 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1 V8.4.0. RMC 12.2kps is used for this testing

#### HSPA SUB-TEST Setting

Table C.11.1.3:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

| Sub-test | $\beta_c$         | $\beta_d$         | $\beta_d$ (SF) | $\beta_c/\beta_d$ | $\beta_{HS}$ | $\beta_{ec}$ | $\beta_{ed}$                                   | $\beta_{ed}$ (SF) | $\beta_{ed}$ (Codes) | CM (dB) | MPR (dB) | AG Index | E-TFCI | RMC (Kbps) |
|----------|-------------------|-------------------|----------------|-------------------|--------------|--------------|--|-------------------|----------------------|---------|----------|----------|--------|------------|
| 1        | 11/15<br>(Note 3) | 15/15<br>(Note 3) | 64             | 11/15<br>(Note 3) | 22/15        | 209/225      | 1309/225                                       | 4                 | 1                    | 1.0     | 0.0      | 20       | 75     | 12.2       |
| 2        | 6/15              | 15/15             | 64             | 6/15              | 12/15        | 12/15        | 94/75  | 4                 | 1                    | 3.0     | 2.0      | 12       | 67     | 12.2       |
| 3        | 15/15             | 9/15              | 64             | 15/9              | 30/15        | 30/15        | $\beta_{ed1}$ : 47/15<br>$\beta_{ed2}$ : 47/15 | 4<br>4            | 2                    | 2.0     | 1.0      | 15       | 92     | 12.2       |
| 4        | 2/15              | 15/15             | 64             | 2/15              | 4/15         | 2/15         | 56/75  | 4                 | 1                    | 3.0     | 2.0      | 17       | 71     | 12.2       |
| 5        | 15/15<br>(Note 4) | 15/15<br>(Note 4) | 64             | 15/15<br>(Note 4) | 30/15        | 24/15        | 134/15   | 4                 | 1                    | 1.0     | 0.0      | 21       | 81     | 12.2       |

**Note: The recommended HSUPA MPRs are implemented as per following sub-tests.**

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## Results:

Table 1

| Mode      | Sub-test | Avg. Power (dBm) |       |       | Power Class 3 Limita-<br>tion (dBm) | Comments |
|-----------|----------|------------------|-------|-------|-------------------------------------|----------|
|           |          | 9262             | 9400  | 9538  |                                     |          |
| HSUPA(B2) | 1        | 24.02            | 24.05 | 24.35 | 18.8dBm – 25.7dBm                   | Pass     |
|           | 2        | 22.08            | 22.13 | 22.39 | 16.8dBm – 25.7dBm                   | Pass     |
|           | 3        | 22.99            | 23.11 | 23.38 | 17.8dBm – 25.7dBm                   | Pass     |
|           | 4        | 22.13            | 22.19 | 22.47 | 16.8dBm – 25.7dBm                   | Pass     |
|           | 5        | 23.88            | 23.88 | 24.24 | 18.8dBm – 25.7dBm                   | Pass     |

| Mode      | Sub-test | Avg. Power (dBm) |       |       | Power Class 3 Limita-<br>tion (dBm) | Comments |
|-----------|----------|------------------|-------|-------|-------------------------------------|----------|
|           |          | 4132             | 4183  | 4233  |                                     |          |
| HSUPA(B5) | 1        | 24.45            | 24.39 | 24.27 | 18.8dBm – 25.7dBm                   | Pass     |
|           | 2        | 22.51            | 22.47 | 22.28 | 16.8dBm – 25.7dBm                   | Pass     |
|           | 3        | 23.42            | 23.45 | 23.27 | 17.8dBm – 25.7dBm                   | Pass     |
|           | 4        | 22.56            | 22.53 | 22.36 | 16.8dBm – 25.7dBm                   | Pass     |
|           | 5        | 24.31            | 24.22 | 24.13 | 18.8dBm – 25.7dBm                   | Pass     |

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## 6.5.2. Minimum Communications Power Measurement

### PCS 1900 band

| PCL                | 0    | 1  | 2  | 3    | 4  | 5    | 6    | 7    | 8    |
|--------------------|------|----|----|------|----|------|------|------|------|
| Output power (dBm) | 29.6 | 28 | 26 | 24.1 | 22 | 19.9 | 18.2 | 16.1 | 14.2 |

| PCL                | 9  | 10   | 11  | 12  | 13  | 14 | 15  |
|--------------------|----|------|-----|-----|-----|----|-----|
| Output power (dBm) | 12 | 10.1 | 8.2 | 6.3 | 4.2 | 2  | 0.1 |

Note: The EUT output power was controlled by simulator. Set Communication Tester CMU200 PCL as above, and get the mobile phone output power reading.

### WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data) . The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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## 7. ERP, EIRP MEASUREMENT

### 7.1. Standard Applicable:

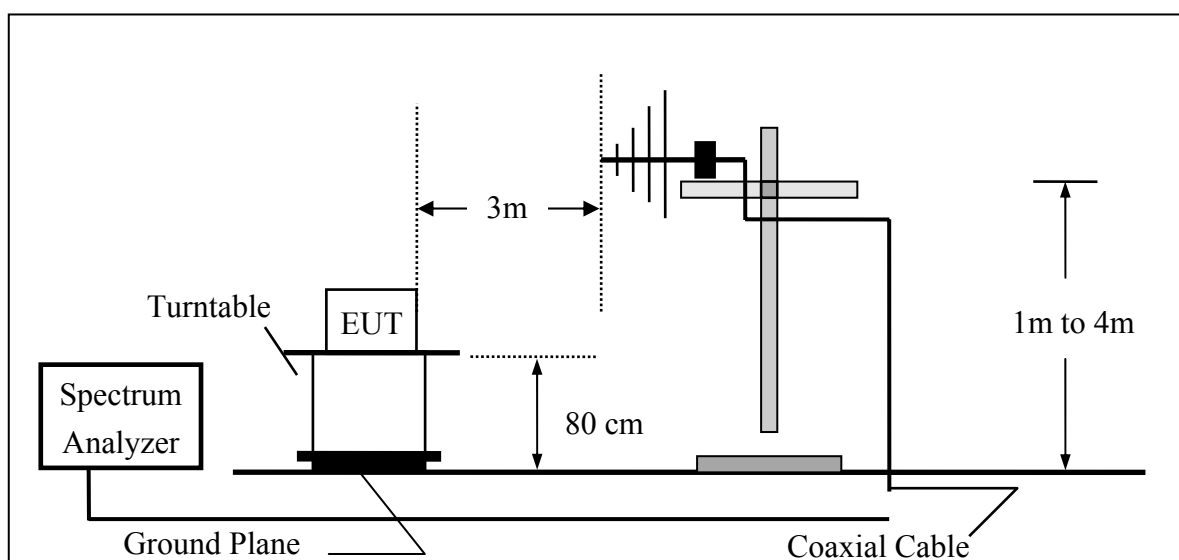
According to FCC §2.1046

FCC 22.913(a) Mobile station is limited to 7W ERP.

FCC 24.232(b) Mobile station is limited to 2W EIRP.

### 7.2. Test SET-UP (Block Diagram of Configuration):

(A) Radiated Power Test Set-Up, Frequency Below 1000MHz



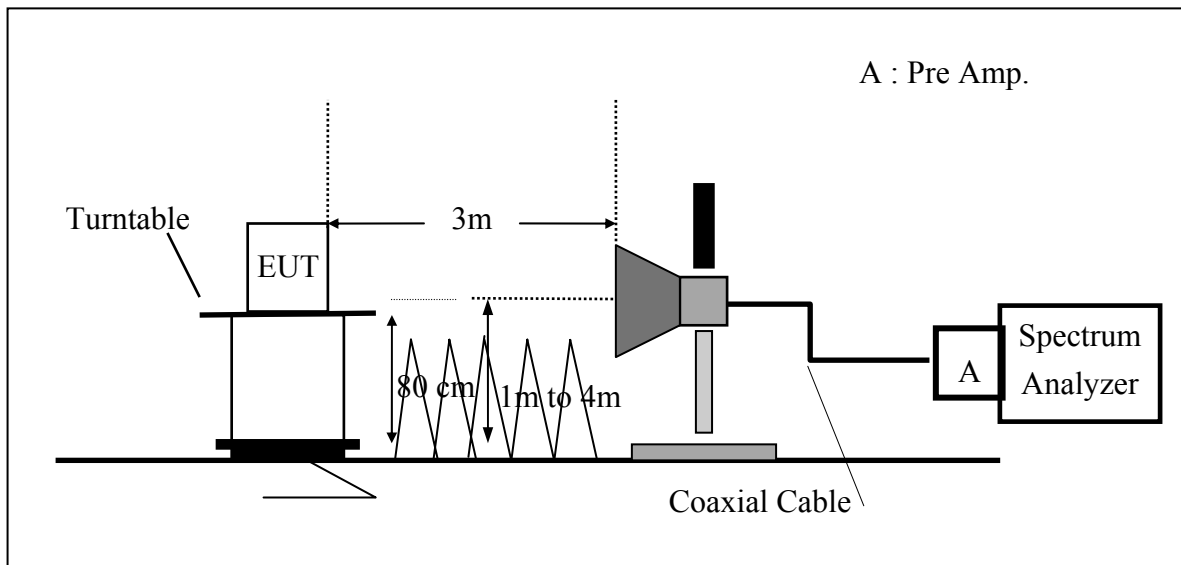
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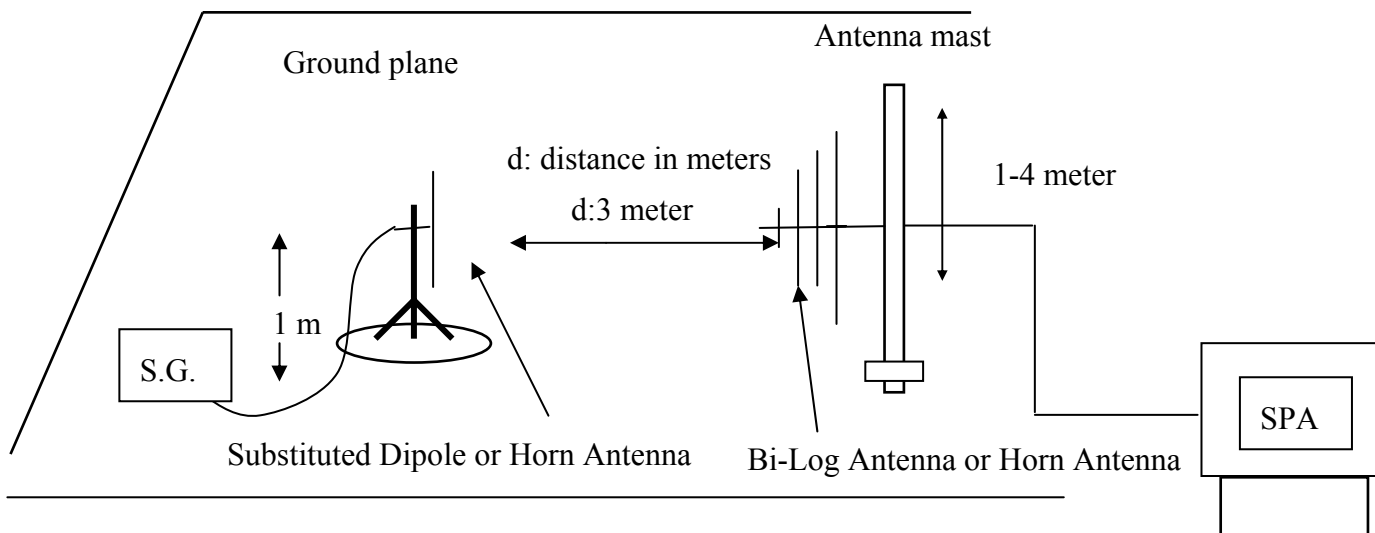
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### (B) Radiated Power Test Set-UP Frequency Over 1 GHz



### (C) Substituted Method Test Set-UP



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### 7.3. Measurement Procedure:

The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824.2 –848.80MHz and 824.7 –848.30MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 –1909.8MHz and 1850.7 –1909.3MHz were measured using a substitution method. The EUT was replaced by a horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)

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Spectrum setting:

1. Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and  $VBW \geq 3 \times RBW$ .

Or,

2. KDB 971168 D01 Power Meas License Digital Systems v01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.

Set frequency = nominal signal center frequency;

Set span = 2 X occupied BW;

Set RBW  $\approx$  1~5% of the span, not to exceed 1 MHz

Set VBW = 3 x RBW;

Select average power (RMS) detector

Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt integration time (ex. Point = 601 points, then sweep time =  $601 \times 10^{-3} = 6s$ ).

Activate trace averaging routine over a minimum of 10 sweeps;

Activate marker/span pair and set span = signal or channel bandwidth;

Activate the band/interval power marker function;

Record the band power level;

Record adjusted value as the average signal power level. Then activate the occupied bandwidth measurement function.

The proper adjustment due to limitation of spectrum capability is given compensated to spectrum with conversion factor of  $10 \times \log(TBW/RBW)$ , where TBW is the transmission of UE exceeding the maximum BW UE can extends, and RBW is the resolution BW in UE.

#### 7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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## 7.5. Measurement Result: (Peak) –using option of peak measurement

| EUT            |                       |     | Measurement  |             |              |            |              |       |
|----------------|-----------------------|-----|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH  | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                | MHz                   |     | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| GSM 850        | 824.2                 | 128 | V            | 24.04       | 3.75         | -3.03      | <b>24.77</b> | 38.45 |
|                |                       |     | H            | 21          | 3.75         | -3.03      | 21.72        | 38.45 |
|                | 836.6                 | 190 | V            | 22.93       | 3.76         | -3.07      | 23.62        | 38.45 |
|                |                       |     | H            | 21          | 3.76         | -3.07      | 21.7         | 38.45 |
|                | 848.8                 | 251 | V            | 23.58       | 3.77         | -3.11      | 24.25        | 38.45 |
|                |                       |     | H            | 19.19       | 3.77         | -3.11      | 19.85        | 38.45 |

| EUT            |                       |     | Measurement  |             |              |            |              |       |
|----------------|-----------------------|-----|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH  | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                | MHz                   |     | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| GPRS 850       | 824.2                 | 128 | V            | 23.78       | 3.75         | -3.03      | <b>24.51</b> | 38.45 |
|                |                       |     | H            | 20.66       | 3.75         | -3.03      | 21.39        | 38.45 |
|                | 836.6                 | 190 | V            | 22.63       | 3.76         | -3.07      | 23.32        | 38.45 |
|                |                       |     | H            | 20.59       | 3.76         | -3.07      | 21.28        | 38.45 |
|                | 848.8                 | 251 | V            | 23.39       | 3.77         | -3.11      | 24.05        | 38.45 |
|                |                       |     | H            | 18.52       | 3.77         | -3.11      | 19.18        | 38.45 |

| EUT            |                       |     | Measurement  |             |              |            |              |       |
|----------------|-----------------------|-----|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH  | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                | MHz                   |     | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| EDGE 850       | 824.2                 | 128 | V            | 22.6        | 3.75         | -3.03      | <b>23.32</b> | 38.45 |
|                |                       |     | H            | 19.69       | 3.75         | -3.03      | 20.41        | 38.45 |
|                | 836.6                 | 190 | V            | 22.03       | 3.76         | -3.07      | 22.73        | 38.45 |
|                |                       |     | H            | 19.7        | 3.76         | -3.07      | 20.39        | 38.45 |
|                | 848.8                 | 251 | V            | 22.32       | 3.77         | -3.11      | 22.98        | 38.45 |
|                |                       |     | H            | 17.18       | 3.77         | -3.11      | 17.84        | 38.45 |

**Remark :** (1) The RBW,VBW of SPA for frequency RBW=300 KHz, VBW=1MHz

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| EUT            |                       |     | Measurement  |             |              |            |              |       |
|----------------|-----------------------|-----|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH  | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                | MHz                   |     | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| GSM 1900       | 1850.2                | 512 | V            | 25.5        | 5.22         | -4.67      | 26.05        | 33.01 |
|                |                       |     | H            | 20.34       | 5.22         | -4.67      | 20.9         | 33.01 |
|                | 1880.0                | 661 | V            | 26.24       | 5.16         | -4.7       | <b>26.69</b> | 33.01 |
|                |                       |     | H            | 23.13       | 5.16         | -4.7       | 23.58        | 33.01 |
|                | 1909.8                | 810 | V            | 25.55       | 5.09         | -4.74      | 25.91        | 33.01 |
|                |                       |     | H            | 23.38       | 5.09         | -4.74      | 23.74        | 33.01 |

| EUT            |                       |     | Measurement  |             |              |            |              |       |
|----------------|-----------------------|-----|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH  | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                | MHz                   |     | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| GPRS 1900      | 1850.2                | 512 | V            | 25.4        | 5.22         | -4.67      | 25.95        | 33.01 |
|                |                       |     | H            | 20.07       | 5.22         | -4.67      | 20.62        | 33.01 |
|                | 1880.0                | 661 | V            | 25.8        | 5.16         | -4.7       | <b>26.25</b> | 33.01 |
|                |                       |     | H            | 21.79       | 5.16         | -4.7       | 22.24        | 33.01 |
|                | 1909.8                | 810 | V            | 25.37       | 5.09         | -4.74      | 25.73        | 33.01 |
|                |                       |     | H            | 23.08       | 5.09         | -4.74      | 23.43        | 33.01 |

| EUT            |                       |     | Measurement  |             |              |            |       |       |
|----------------|-----------------------|-----|--------------|-------------|--------------|------------|-------|-------|
| Operation Band | Fundamental Frequency | CH  | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP  | Limit |
|                | MHz                   |     | V/H          | dBm         | dBi          | dB         | dBm   | dBm   |
| EDGE 1900      | 1850.2                | 512 | V            | 25.02       | 5.22         | -4.67      | 25.57 | 33.01 |
|                |                       |     | H            | 19.61       | 5.22         | -4.67      | 20.17 | 33.01 |
|                | 1880.0                | 661 | V            | 25.52       | 5.16         | -4.7       | 25.97 | 33.01 |
|                |                       |     | H            | 21.33       | 5.16         | -4.7       | 21.78 | 33.01 |
|                | 1909.8                | 810 | V            | 25.15       | 5.09         | -4.74      | 25.5  | 33.01 |
|                |                       |     | H            | 22.73       | 5.09         | -4.74      | 23.09 | 33.01 |

## Remark :

- (1) The RBW,VBW of SPA for frequency RBW=300K, VBW=1MHz

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| EUT            |                       |      | Measurement  |             |              |            |              |       |
|----------------|-----------------------|------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH   | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
| WCDMA B2       | MHz                   |      | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
|                | 1852.4                | 9262 | V            | 22.17       | 5.22         | -4.67      | <b>22.71</b> | 33.01 |
|                |                       |      | H            | 16.41       | 5.22         | -4.67      | 16.96        | 33.01 |
|                | 1880.0                | 9400 | V            | 22.18       | 5.16         | -4.7       | 22.63        | 33.01 |
|                |                       |      | H            | 17.26       | 5.16         | -4.7       | 17.72        | 33.01 |
|                | 1907.6                | 9538 | V            | 21.51       | 5.1          | -4.74      | 21.87        | 33.01 |
|                |                       |      | H            | 18.25       | 5.1          | -4.74      | 18.61        | 33.01 |

| EUT            |                       |      | Measurement  |             |              |            |              |       |
|----------------|-----------------------|------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH   | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                | MHz                   |      | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
| HSDPA B2       | 1852.4                | 9262 | V            | 21.83       | 5.22         | -4.67      | 22.38        | 33.01 |
|                |                       |      | H            | 15.99       | 5.22         | -4.67      | 16.54        | 33.01 |
|                | 1880.0                | 9400 | V            | 21.96       | 5.16         | -4.7       | <b>22.42</b> | 33.01 |
|                |                       |      | H            | 16.61       | 5.16         | -4.7       | 17.07        | 33.01 |
|                | 1907.6                | 9538 | V            | 20.97       | 5.1          | -4.74      | 21.33        | 33.01 |
|                |                       |      | H            | 17.91       | 5.1          | -4.74      | 18.27        | 33.01 |

| EUT            |                       |      | Measurement  |             |              |            |              |       |
|----------------|-----------------------|------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH   | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|                | MHz                   |      | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
| HSUPA B2       | 1852.4                | 9262 | V            | 21.45       | 5.22         | -4.67      | <b>22.00</b> | 33.01 |
|                |                       |      | H            | 15.78       | 5.22         | -4.67      | 16.33        | 33.01 |
|                | 1880.0                | 9400 | V            | 20.66       | 5.16         | -4.7       | 21.12        | 33.01 |
|                |                       |      | H            | 16.37       | 5.16         | -4.7       | 16.82        | 33.01 |
|                | 1907.6                | 9538 | V            | 20.59       | 5.1          | -4.74      | 20.95        | 33.01 |
|                |                       |      | H            | 17.54       | 5.1          | -4.74      | 17.9         | 33.01 |

## Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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| EUT            |                       |      | Measurement  |             |              |            |              |       |
|----------------|-----------------------|------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH   | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                | MHz                   |      | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| WCDMA B5       | 826.4                 | 4132 | V            | 18.05       | 3.76         | -3.04      | 18.77        | 38.45 |
|                |                       |      | H            | 15.18       | 3.76         | -3.03      | 15.9         | 38.45 |
|                | 836.6                 | 4183 | V            | 18.53       | 3.76         | -3.07      | <b>19.22</b> | 38.45 |
|                |                       |      | H            | 15.28       | 3.76         | -3.07      | 15.98        | 38.45 |
|                | 846.6                 | 4233 | V            | 17.78       | 3.77         | -3.1       | 18.45        | 38.45 |
|                |                       |      | H            | 13.85       | 3.77         | -3.1       | 14.51        | 38.45 |

| EUT            |                       |      | Measurement  |             |              |            |              |       |
|----------------|-----------------------|------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH   | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                | MHz                   |      | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| HSDPA B5       | 826.4                 | 4132 | V            | 18.02       | 3.76         | -3.03      | 18.74        | 38.45 |
|                |                       |      | H            | 15.02       | 3.76         | -3.03      | 15.75        | 38.45 |
|                | 836.6                 | 4183 | V            | 18.31       | 3.76         | -3.07      | <b>19.01</b> | 38.45 |
|                |                       |      | H            | 15.02       | 3.76         | -3.07      | 15.71        | 38.45 |
|                | 846.6                 | 4233 | V            | 17.62       | 3.77         | -3.1       | 18.28        | 38.45 |
|                |                       |      | H            | 13.64       | 3.77         | -3.1       | 14.31        | 38.45 |

| EUT            |                       |      | Measurement  |             |              |            |              |       |
|----------------|-----------------------|------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band | Fundamental Frequency | CH   | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|                | MHz                   |      | V/H          | dBm         | dBd          | dB         | dBm          | dBm   |
| HSUPA B5       | 826.4                 | 4132 | V            | 17.94       | 3.76         | -3.03      | 18.66        | 38.45 |
|                |                       |      | H            | 14.75       | 3.76         | -3.03      | 15.48        | 38.45 |
|                | 836.6                 | 4183 | V            | 18.04       | 3.76         | -3.07      | <b>18.74</b> | 38.45 |
|                |                       |      | H            | 14.92       | 3.76         | -3.07      | 15.62        | 38.45 |
|                | 846.6                 | 4233 | V            | 17.47       | 3.77         | -3.1       | 18.14        | 38.45 |
|                |                       |      | H            | 13.44       | 3.77         | -3.1       | 14.11        | 38.45 |

## Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 5MHz , VBW= 8MHz

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### BAND 2 / BW: 1.4M / QPSK / RB: 1,0

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                   | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|  | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 1.4M/<br/>QPSK<br/>RB: 1,0</b> | 1850.7                | 18607 | V            | 19.02       | 5.22         | -4.67      | 19.57        | 33.01 |
|  |                       |       | H            | 24.49       | 5.22         | -4.67      | 25.05        | 33.01 |
|  | 1880.0                | 18900 | V            | 17.49       | 5.16         | -4.7       | 17.94        | 33.01 |
|  |                       |       | H            | 24.72       | 5.16         | -4.7       | <b>25.18</b> | 33.01 |
|  | 1909.3                | 19193 | V            | 20.85       | 5.1          | -4.74      | 21.21        | 33.01 |
|  |                       |       | H            | 24.4        | 5.1          | -4.74      | 24.76        | 33.01 |

### BAND 2 / BW: 1.4M / QPSK / RB: 1,5

| EUT   |                       |       | Measurement  |             |              |            |              |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                  | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|   | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 1.4M<br/>QPSK<br/>RB: 1,5</b> | 1850.7                | 18607 | V            | 18.32       | 5.22         | -4.67      | 18.87        | 33.01 |
|   |                       |       | H            | 24.63       | 5.22         | -4.67      | <b>25.18</b> | 33.01 |
|   | 1880.0                | 18900 | V            | 17.62       | 5.16         | -4.7       | 18.07        | 33.01 |
|   |                       |       | H            | 24.81       | 5.16         | -4.7       | 25.27        | 33.01 |
|   | 1909.3                | 19193 | V            | 20.83       | 5.09         | -4.74      | 21.19        | 33.01 |
|   |                       |       | H            | 23.82       | 5.09         | -4.74      | 24.18        | 33.01 |

#### Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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### BAND 2 / BW: 1.4M / 16QAM / RB: 1,0

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                   | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|  | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 1.4M<br/>16QAM<br/>RB: 1,0</b> | 1850.7                | 18607 | V            | 18.77       | 5.23         | -4.67      | 19.32        | 33.01 |
|  |                       |       | H            | 24.96       | 5.23         | -4.67      | 25.51        | 33.01 |
|  | 1880.0                | 18900 | V            | 18.03       | 5.16         | -4.7       | 18.48        | 33.01 |
|  |                       |       | H            | 25.21       | 5.16         | -4.7       | <b>25.67</b> | 33.01 |
|  | 1909.3                | 19193 | V            | 21.27       | 5.1          | -4.74      | 21.63        | 33.01 |
|  |                       |       | H            | 24.55       | 5.1          | -4.74      | 24.91        | 33.01 |

### BAND 2 / BW: 1.4M / 16QAM / RB: 1,5

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                   | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|  | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 1.4M<br/>16QAM<br/>RB: 1,5</b> | 1850.7                | 18607 | V            | 18.73       | 5.22         | -4.67      | 19.29        | 33.01 |
|  |                       |       | H            | 25.17       | 5.22         | -4.67      | 25.73        | 33.01 |
|  | 1880.0                | 18900 | V            | 18.23       | 5.16         | -4.7       | 18.68        | 33.01 |
|  |                       |       | H            | 25.43       | 5.16         | -4.7       | <b>25.89</b> | 33.01 |
|  | 1909.3                | 19193 | V            | 21.32       | 5.09         | -4.74      | 21.68        | 33.01 |
|  |                       |       | H            | 24.32       | 5.09         | -4.74      | 24.68        | 33.01 |

#### Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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### BAND 2 / BW: 3M / QPSK / RB: 1,0

| EUT   |                       |       | Measurement  |             |              |            |              |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|   | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 3M<br/>QPSK<br/>RB: 1,0</b> | 1851.5                | 18615 | V            | 18.22       | 5.23         | -4.67      | 18.77        | 33.01 |
|   |                       |       | H            | 24.53       | 5.23         | -4.67      | <b>25.08</b> | 33.01 |
|   | 1880.0                | 18900 | V            | 17.33       | 5.16         | -4.7       | 17.79        | 33.01 |
|   |                       |       | H            | 24.45       | 5.16         | -4.7       | 24.91        | 33.01 |
|   | 1908.5                | 19185 | V            | 20.25       | 5.1          | -4.74      | 20.62        | 33.01 |
|   |                       |       | H            | 24.26       | 5.1          | -4.74      | 24.62        | 33.01 |

### BAND 2 / BW: 3M / QPSK / RB: 1,14

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|  | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 3M<br/>QPSK<br/>RB: 1,14</b> | 1851.5                | 18615 | V            | 18.07       | 5.22         | -4.67      | 18.62        | 33.01 |
|  |                       |       | H            | 24.56       | 5.22         | -4.67      | <b>25.11</b> | 33.01 |
|  | 1880.0                | 18900 | V            | 17.68       | 5.16         | -4.71      | 18.13        | 33.01 |
|  |                       |       | H            | 24.51       | 5.16         | -4.71      | 24.96        | 33.01 |
|  | 1908.5                | 19185 | V            | 19.76       | 5.09         | -4.74      | 20.11        | 33.01 |
|  |                       |       | H            | 23.74       | 5.09         | -4.74      | 24.1         | 33.01 |

#### Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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**BAND 2 / BW: 3M / 16QAM / RB: 1,0**

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|  | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 3M<br/>16QAM<br/>RB: 1,0</b> | 1851.5                | 18615 | V            | 18.34       | 5.23         | -4.67      | 18.9         | 33.01 |
|  |                       |       | H            | 25.21       | 5.22         | -4.67      | <b>25.76</b> | 33.01 |
|  | 1880.0                | 18900 | V            | 17.88       | 5.16         | -4.7       | 18.34        | 33.01 |
|  |                       |       | H            | 25.02       | 5.16         | -4.7       | 25.48        | 33.01 |
|  | 1908.5                | 19185 | V            | 20.66       | 5.1          | -4.74      | 21.02        | 33.01 |
|  |                       |       | H            | 24.81       | 5.1          | -4.73      | 25.17        | 33.01 |

**BAND 2 / BW: 3M / 16QAM / RB: 1,14**

| EUT   |                       |       | Measurement  |             |              |            |              |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                  | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|   | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 3M<br/>16QAM<br/>RB: 1,14</b> | 1851.5                | 18615 | V            | 18.64       | 5.22         | -4.67      | 19.18        | 33.01 |
|   |                       |       | H            | 25.1        | 5.22         | -4.67      | <b>25.65</b> | 33.01 |
|   | 1880.0                | 18900 | V            | 18.28       | 5.16         | -4.71      | 18.73        | 33.01 |
|   |                       |       | H            | 25.08       | 5.16         | -4.7       | 25.53        | 33.01 |
|   | 1908.5                | 19185 | V            | 19.79       | 5.09         | -4.74      | 20.14        | 33.01 |
|   |                       |       | H            | 24.22       | 5.09         | -4.74      | 24.58        | 33.01 |

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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### BAND 2 / BW: 5M / QPSK / RB: 1,0

| EUT   |                       |       | Measurement  |             |              |            |              |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|   | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 5M<br/>QPSK<br/>RB: 1,0</b> | 1852.5                | 18625 | V            | 18.34       | 5.22         | -4.67      | 18.89        | 33.01 |
|   |                       |       | H            | 24.64       | 5.23         | -4.67      | <b>25.19</b> | 33.01 |
|   | 1880.0                | 18900 | V            | 17.2        | 5.16         | -4.7       | 17.66        | 33.01 |
|   |                       |       | H            | 24.45       | 5.16         | -4.7       | 24.92        | 33.01 |
|   | 1907.5                | 19175 | V            | 20.36       | 5.1          | -4.73      | 20.73        | 33.01 |
|   |                       |       | H            | 24.32       | 5.1          | -4.73      | 24.69        | 33.01 |

### BAND 2 / BW: 5M / QPSK / RB: 1,24

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|  | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 5M<br/>QPSK<br/>RB: 1,24</b> | 1852.5                | 18625 | V            | 17.67       | 5.22         | -4.67      | 18.21        | 33.01 |
|  |                       |       | H            | 24.58       | 5.22         | -4.67      | <b>25.12</b> | 33.01 |
|  | 1880.0                | 18900 | V            | 24.55       | 5.15         | -4.71      | 25           | 33.01 |
|  |                       |       | H            | 17.57       | 5.15         | -4.71      | 18.01        | 33.01 |
|  | 1907.5                | 19175 | V            | 20.68       | 5.09         | -4.74      | 21.04        | 33.01 |
|  |                       |       | H            | 23.87       | 5.09         | -4.74      | 24.23        | 33.01 |

#### Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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### BAND 2 / BW: 5M / 16QAM / RB: 1,0

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|  | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 5M<br/>16QAM<br/>RB: 1,0</b> | 1852.5                | 18625 | V            | 18.19       | 5.22         | -4.67      | 18.75        | 33.01 |
|  |                       |       | H            | 25.24       | 5.22         | -4.67      | <b>25.79</b> | 33.01 |
|  | 1880.0                | 18900 | V            | 17.77       | 5.17         | -4.7       | 18.23        | 33.01 |
|  |                       |       | H            | 25.02       | 5.16         | -4.7       | 25.48        | 33.01 |
|  | 1907.5                | 19175 | V            | 20.55       | 5.1          | -4.73      | 20.92        | 33.01 |
|  |                       |       | H            | 24.88       | 5.1          | -4.73      | 25.25        | 33.01 |

### BAND 2 / BW: 5M / 16QAM / RB: 1,24

| EUT   |                       |       | Measurement  |             |              |            |             |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|-------------|-------|
| Operation Band                                  | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP        | Limit |
|   | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm         | dBm   |
| <b>BAND 2<br/>BW: 5M<br/>16QAM<br/>RB: 1,24</b> | 1852.5                | 18625 | V            | 18.35       | 5.22         | -4.67      | 18.89       | 33.01 |
|   |                       |       | H            | 25.16       | 5.22         | -4.67      | <b>25.7</b> | 33.01 |
|   | 1880.0                | 18900 | V            | 18.24       | 5.15         | -4.71      | 18.69       | 33.01 |
|   |                       |       | H            | 25.19       | 5.16         | -4.71      | 25.64       | 33.01 |
|   | 1907.5                | 19175 | V            | 21.27       | 5.09         | -4.74      | 21.63       | 33.01 |
|   |                       |       | H            | 24.4        | 5.09         | -4.74      | 24.76       | 33.01 |

#### Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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### BAND 2 / BW: 10M / QPSK / RB: 1,0

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|  | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 10M<br/>QPSK<br/>RB: 1,0</b> | 1855.0                | 18650 | V            | 18.44       | 5.22         | -4.67      | 18.99        | 33.01 |
|  |                       |       | H            | 24.48       | 5.22         | -4.67      | <b>25.03</b> | 33.01 |
|  | 1880.0                | 18900 | V            | 16.18       | 5.17         | -4.7       | 16.65        | 33.01 |
|  |                       |       | H            | 24.2        | 5.17         | -4.7       | 24.67        | 33.01 |
|  | 1905.0                | 19150 | V            | 17.82       | 5.11         | -4.73      | 18.2         | 33.01 |
|  |                       |       | H            | 23.93       | 5.11         | -4.73      | 24.32        | 33.01 |

### BAND 2 / BW: 10M / QPSK / RB: 1,49

| EUT   |                       |       | Measurement  |             |              |            |             |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|-------------|-------|
| Operation Band                                  | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP        | Limit |
|   | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm         | dBm   |
| <b>BAND 2<br/>BW: 10M<br/>QPSK<br/>RB: 1,49</b> | 1855.0                | 18650 | V            | 16.06       | 5.2          | -4.68      | 16.59       | 33.01 |
|   |                       |       | H            | 24.37       | 5.21         | -4.68      | 24.9        | 33.01 |
|   | 1880.0                | 18900 | V            | 16.88       | 5.15         | -4.71      | 17.32       | 33.01 |
|   |                       |       | H            | 24.85       | 5.15         | -4.71      | <b>25.3</b> | 33.01 |
|   | 1905.0                | 19150 | V            | 20.72       | 5.09         | -4.74      | 21.08       | 33.01 |
|   |                       |       | H            | 23.85       | 5.09         | -4.74      | 24.21       | 33.01 |

#### Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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**BAND 2 / BW: 10M / 16QAM / RB: 1,0**

| EUT   |                       |       | Measurement  |             |              |            |              |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                  | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|   | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 10M<br/>16QAM<br/>RB: 1,0</b> | 1855.0                | 18650 | V            | 18.28       | 5.22         | -4.67      | 18.83        | 33.01 |
|   |                       |       | H            | 25.3        | 5.22         | -4.67      | <b>25.86</b> | 33.01 |
|   | 1880.0                | 18900 | V            | 16.73       | 5.17         | -4.7       | 17.2         | 33.01 |
|   |                       |       | H            | 24.81       | 5.17         | -4.7       | 25.28        | 33.01 |
|   | 1905.0                | 19150 | V            | 18.37       | 5.11         | -4.73      | 18.75        | 33.01 |
|   |                       |       | H            | 24.48       | 5.11         | -4.73      | 24.87        | 33.01 |

**BAND 2 / BW: 10M / 16QAM / RB: 1,49**

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                   | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|  | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 10M<br/>16QAM<br/>RB: 1,49</b> | 1855.0                | 18650 | V            | 16.77       | 5.21         | -4.68      | 17.3         | 33.01 |
|  |                       |       | H            | 25.08       | 5.21         | -4.68      | 25.61        | 33.01 |
|  | 1880.0                | 18900 | V            | 17.68       | 5.15         | -4.71      | 18.12        | 33.01 |
|  |                       |       | H            | 25.54       | 5.15         | -4.71      | <b>25.98</b> | 33.01 |
|  | 1905.0                | 19150 | V            | 21.32       | 5.1          | -4.74      | 21.68        | 33.01 |
|  |                       |       | H            | 24.43       | 5.09         | -4.74      | 24.78        | 33.01 |

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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### BAND 2 / BW: 15M / QPSK / RB: 1,0

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|  | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 15M<br/>QPSK<br/>RB: 1,0</b> | 1857.5                | 18675 | V            | 18.42       | 5.22         | -4.67      | 18.97        | 33.01 |
|  |                       |       | H            | 24.63       | 5.22         | -4.67      | <b>25.18</b> | 33.01 |
|  | 1880.0                | 18900 | V            | 14.85       | 5.17         | -4.7       | 15.33        | 33.01 |
|  |                       |       | H            | 24.2        | 5.17         | -4.7       | 24.68        | 33.01 |
|  | 1902.5                | 19125 | V            | 21.21       | 5.12         | -4.72      | 21.61        | 33.01 |
|  |                       |       | H            | 24.67       | 5.12         | -4.72      | 25.07        | 33.01 |

### BAND 2 / BW: 15M / QPSK / RB: 1,74

| EUT   |                       |       | Measurement  |             |              |            |             |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|-------------|-------|
| Operation Band                                  | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP        | Limit |
|   | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm         | dBm   |
| <b>BAND 2<br/>BW: 15M<br/>QPSK<br/>RB: 1,74</b> | 1857.5                | 18675 | V            | 13.79       | 5.19         | -4.69      | 14.3        | 33.01 |
|   |                       |       | H            | 24.51       | 5.19         | -4.69      | 25.02       | 33.01 |
|   | 1880.0                | 18900 | V            | 16.51       | 5.14         | -4.71      | 16.94       | 33.01 |
|   |                       |       | H            | 24.87       | 5.14         | -4.71      | <b>25.3</b> | 33.01 |
|   | 1902.5                | 19125 | V            | 18.28       | 5.1          | -4.74      | 18.64       | 33.01 |
|   |                       |       | H            | 24.22       | 5.1          | -4.74      | 24.58       | 33.01 |

#### Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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### BAND 2 / BW: 15M / 16QAM / RB: 1,0

| EUT   |                       |       | Measurement  |             |              |            |              |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                  | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|   | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 15M<br/>16QAM<br/>RB: 1,0</b> | 1857.5                | 18675 | V            | 19.02       | 5.22         | -4.67      | 19.57        | 33.01 |
|   |                       |       | H            | 25.26       | 5.22         | -4.67      | <b>25.82</b> | 33.01 |
|   | 1880.0                | 18900 | V            | 15.51       | 5.17         | -4.7       | 15.99        | 33.01 |
|   |                       |       | H            | 24.84       | 5.17         | -4.7       | 25.32        | 33.01 |
|   | 1902.5                | 19125 | V            | 21.8        | 5.12         | -4.72      | 22.21        | 33.01 |
|   |                       |       | H            | 25.24       | 5.12         | -4.72      | 25.64        | 33.01 |

### BAND 2 / BW: 15M / 16QAM / RB: 1,74

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                   | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|  | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 15M<br/>16QAM<br/>RB: 1,74</b> | 1857.5                | 18675 | V            | 14.48       | 5.2          | -4.68      | 14.99        | 33.01 |
|  |                       |       | H            | 25.1        | 5.2          | -4.69      | 25.61        | 33.01 |
|  | 1880.0                | 18900 | V            | 17.25       | 5.14         | -4.71      | 17.68        | 33.01 |
|  |                       |       | H            | 25.51       | 5.15         | -4.71      | <b>25.95</b> | 33.01 |
|  | 1902.5                | 19125 | V            | 18.87       | 5.09         | -4.74      | 19.23        | 33.01 |
|  |                       |       | H            | 24.81       | 5.09         | -4.74      | 25.16        | 33.01 |

#### Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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### BAND 2 / BW: 20M / QPSK / RB: 1,0

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|  | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 20M<br/>QPSK<br/>RB: 1,0</b> | 1860.0                | 18700 | V            | 18.36       | 5.22         | -4.67      | 18.92        | 33.01 |
|  |                       |       | H            | 24.69       | 5.22         | -4.67      | 25.24        | 33.01 |
|  | 1880.0                | 18900 | V            | 13.56       | 5.18         | -4.69      | 14.04        | 33.01 |
|  |                       |       | H            | 24.39       | 5.18         | -4.69      | 24.87        | 33.01 |
|  | 1900.0                | 19100 | V            | 20.59       | 5.13         | -4.72      | 21.01        | 33.01 |
|  |                       |       | H            | 24.96       | 5.13         | -4.72      | <b>25.37</b> | 33.01 |

### BAND 2 / BW: 20M / QPSK / RB: 1,99

| EUT   |                       |       | Measurement  |             |              |            |              |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                  | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|   | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 20M<br/>QPSK<br/>RB: 1,99</b> | 1860.0                | 18700 | V            | 12.55       | 5.18         | -4.69      | 13.04        | 33.01 |
|   |                       |       | H            | 24.21       | 5.18         | -4.69      | 24.7         | 33.01 |
|   | 1880.0                | 18900 | V            | 16.47       | 5.16         | -4.7       | 16.93        | 33.01 |
|   |                       |       | H            | 24.8        | 5.14         | -4.71      | <b>25.22</b> | 33.01 |
|   | 1900.0                | 19100 | V            | 18.6        | 5.1          | -4.74      | 18.96        | 33.01 |
|   |                       |       | H            | 24.38       | 5.1          | -4.74      | 24.74        | 33.01 |

#### Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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### BAND 2 / BW: 20M /16QAM / RB: 1,0

| EUT   |                       |       | Measurement  |             |              |            |              |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                  | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|   | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 20M<br/>16QAM<br/>RB: 1,0</b> | 1860.0                | 18700 | V            | 19.08       | 5.22         | -4.67      | 19.63        | 33.01 |
|   |                       |       | H            | 25.19       | 5.22         | -4.67      | 25.75        | 33.01 |
|   | 1880.0                | 18900 | V            | 14.11       | 5.18         | -4.69      | 14.6         | 33.01 |
|   |                       |       | H            | 24.97       | 5.18         | -4.69      | 25.45        | 33.01 |
|   | 1900.0                | 19100 | V            | 21.31       | 5.13         | -4.72      | 21.72        | 33.01 |
|   |                       |       | H            | 25.6        | 5.13         | -4.72      | <b>26.02</b> | 33.01 |

### BAND 2 / BW: 20M / 16QAM / RB: 1,99

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                   | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | EIRP         | Limit |
|  | MHz                   |       | V/H          | dBm         | dBi          | dB         | dBm          | dBm   |
| <b>BAND 2<br/>BW: 20M<br/>16QAM<br/>RB: 1,99</b> | 1860.0                | 18700 | V            | 13.15       | 5.18         | -4.69      | 13.64        | 33.01 |
|  |                       |       | H            | 24.76       | 5.18         | -4.69      | 25.25        | 33.01 |
|  | 1880.0                | 18900 | V            | 17.18       | 5.16         | -4.7       | 17.64        | 33.01 |
|  |                       |       | H            | 25.49       | 5.14         | -4.71      | <b>25.91</b> | 33.01 |
|  | 1900.0                | 19100 | V            | 19.21       | 5.1          | -4.74      | 19.57        | 33.01 |
|  |                       |       | H            | 24.94       | 5.1          | -4.74      | 25.3         | 33.01 |

#### Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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### BAND 5 / BW: 1.4M / QPSK / RB: 1,0

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                   | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|  | MHz                   |       | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
| <b>BAND 5<br/>BW: 1.4M/<br/>QPSK<br/>RB: 1,0</b> | 824.7                 | 20407 | V            | 22.87       | 3.76         | -3.03      | 23.59        | 38.45 |
|  |                       |       | H            | 17.65       | 3.76         | -3.03      | 18.37        | 38.45 |
|  | 836.5                 | 20525 | V            | 23.43       | 3.76         | -3.06      | <b>24.13</b> | 38.45 |
|  |                       |       | H            | 18.19       | 3.76         | -3.06      | 18.89        | 38.45 |
|  | 848.3                 | 20643 | V            | 22.4        | 3.77         | -3.1       | 23.07        | 38.45 |
|  |                       |       | H            | 16.42       | 3.77         | -3.1       | 17.08        | 38.45 |

### BAND 5 / BW: 1.4M / QPSK / RB: 1,5

| EUT   |                       |       | Measurement  |             |              |            |              |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                  | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|   | MHz                   |       | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
| <b>BAND 5<br/>BW: 1.4M<br/>QPSK<br/>RB: 1,5</b> | 824.7                 | 20407 | V            | 23.01       | 3.76         | -3.03      | 23.74        | 38.45 |
|   |                       |       | H            | 17.63       | 3.76         | -3.03      | 18.36        | 38.45 |
|   | 836.5                 | 20525 | V            | 24.15       | 3.76         | -3.07      | <b>24.84</b> | 38.45 |
|   |                       |       | H            | 18.14       | 3.76         | -3.07      | 18.84        | 38.45 |
|   | 848.3                 | 20643 | V            | 22.43       | 3.77         | -3.1       | 23.09        | 38.45 |
|   |                       |       | H            | 16.48       | 3.77         | -3.1       | 17.14        | 38.45 |

#### Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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### BAND 5 / BW: 1.4M / 16QAM / RB: 1,0

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                   | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|  | MHz                   |       | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
| <b>BAND 5<br/>BW: 1.4M<br/>16QAM<br/>RB: 1,0</b> | 824.7                 | 20407 | V            | 23.4        | 3.76         | -3.03      | 24.12        | 38.45 |
|  |                       |       | H            | 18.03       | 3.75         | -3.03      | 18.75        | 38.45 |
|  | 836.5                 | 20525 | V            | 23.78       | 3.76         | -3.07      | <b>24.48</b> | 38.45 |
|  |                       |       | H            | 18.69       | 3.76         | -3.06      | 19.39        | 38.45 |
|  | 848.3                 | 20643 | V            | 22.91       | 3.77         | -3.1       | 23.58        | 38.45 |
|  |                       |       | H            | 16.98       | 3.77         | -3.1       | 17.64        | 38.45 |

### BAND 5 / BW: 1.4M / 16QAM / RB: 1,5

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                   | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|  | MHz                   |       | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
| <b>BAND 5<br/>BW: 1.4M<br/>16QAM<br/>RB: 1,5</b> | 824.7                 | 20407 | V            | 22.92       | 3.76         | -3.03      | 23.65        | 38.45 |
|  |                       |       | H            | 17.63       | 3.76         | -3.03      | 18.35        | 38.45 |
|  | 836.5                 | 20525 | V            | 24.01       | 3.76         | -3.07      | <b>24.71</b> | 38.45 |
|  |                       |       | H            | 18.94       | 3.76         | -3.07      | 19.64        | 38.45 |
|  | 848.3                 | 20643 | V            | 22.98       | 3.77         | -3.1       | 23.64        | 38.45 |
|  |                       |       | H            | 17.12       | 3.77         | -3.1       | 17.79        | 38.45 |

#### Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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**BAND 5 / BW: 3M / QPSK / RB: 1,0**

| EUT   |                       |       | Measurement  |             |              |            |              |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|   | MHz                   |       | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
| <b>BAND 5<br/>BW: 3M<br/>QPSK<br/>RB: 1,0</b> | 825.5                 | 20415 | V            | 22.7        | 3.76         | -3.03      | <b>23.42</b> | 38.45 |
|   |                       |       | H            | 17.12       | 3.75         | -3.03      | 17.84        | 38.45 |
|   | 836.5                 | 20525 | V            | 22.66       | 3.76         | -3.06      | 23.36        | 38.45 |
|   |                       |       | H            | 17.64       | 3.76         | -3.06      | 18.34        | 38.45 |
|   | 847.5                 | 20635 | V            | 22.23       | 3.77         | -3.1       | 22.9         | 38.45 |
|   |                       |       | H            | 16.29       | 3.77         | -3.1       | 16.96        | 38.45 |

**BAND 5 / BW: 3M / QPSK / RB: 1,14**

| EUT  |                       |       | Measurement  |             |              |            |             |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|-------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP         | Limit |
|  | MHz                   |       | V/H          | dBm         | dB           | dB         | dBm         | dBm   |
| <b>BAND 5<br/>BW: 3M<br/>QPSK<br/>RB: 1,14</b> | 825.5                 | 20415 | V            | 21.79       | 3.76         | -3.03      | 22.51       | 38.45 |
|  |                       |       | H            | 16.53       | 3.76         | -3.03      | 17.25       | 38.45 |
|  | 836.5                 | 20525 | V            | 23.2        | 3.76         | -3.07      | <b>23.9</b> | 38.45 |
|  |                       |       | H            | 18.07       | 3.76         | -3.07      | 18.76       | 38.45 |
|  | 847.5                 | 20635 | V            | 22.31       | 3.77         | -3.1       | 22.98       | 38.45 |
|  |                       |       | H            | 16.41       | 3.77         | -3.11      | 17.07       | 38.45 |

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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### BAND 5 / BW: 3M / 16QAM / RB: 1,0

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|  | MHz                   |       | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
| <b>BAND 5<br/>BW: 3M<br/>16QAM<br/>RB: 1,0</b> | 825.5                 | 20415 | V            | 23.41       | 3.75         | -3.03      | <b>24.14</b> | 38.45 |
|  |                       |       | H            | 17.67       | 3.75         | -3.03      | 18.4         | 38.45 |
|  | 836.5                 | 20525 | V            | 23.36       | 3.76         | -3.06      | 24.06        | 38.45 |
|  |                       |       | H            | 18.42       | 3.76         | -3.06      | 19.11        | 38.45 |
|  | 847.5                 | 20635 | V            | 22.78       | 3.77         | -3.1       | 23.45        | 38.45 |
|  |                       |       | H            | 16.93       | 3.77         | -3.1       | 17.6         | 38.45 |

### BAND 5 / BW: 3M / 16QAM / RB: 1,14

| EUT   |                       |       | Measurement  |             |              |            |              |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                  | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|   | MHz                   |       | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
| <b>BAND 5<br/>BW: 3M<br/>16QAM<br/>RB: 1,14</b> | 825.5                 | 20415 | V            | 22.67       | 3.76         | -3.04      | 23.39        | 38.45 |
|   |                       |       | H            | 17.04       | 3.76         | -3.03      | 17.76        | 38.45 |
|   | 836.5                 | 20525 | V            | 23.95       | 3.76         | -3.07      | <b>24.64</b> | 38.45 |
|   |                       |       | H            | 18.93       | 3.76         | -3.07      | 19.62        | 38.45 |
|   | 847.5                 | 20635 | V            | 22.86       | 3.77         | -3.11      | 23.52        | 38.45 |
|   |                       |       | H            | 17.02       | 3.77         | -3.1       | 17.68        | 38.45 |

#### Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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### BAND 5 / BW: 5M / QPSK / RB: 1,0

| EUT   |                       |       | Measurement  |             |              |            |              |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|   | MHz                   |       | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
| <b>BAND 5<br/>BW: 5M<br/>QPSK<br/>RB: 1,0</b> | 826.5                 | 20425 | V            | 22.56       | 3.75         | -3.03      | 23.28        | 38.45 |
|   |                       |       | H            | 17.28       | 3.75         | -3.03      | 18.01        | 38.45 |
|   | 836.5                 | 20525 | V            | 22.57       | 3.76         | -3.06      | <b>23.28</b> | 38.45 |
|   |                       |       | H            | 17.59       | 3.76         | -3.06      | 18.29        | 38.45 |
|   | 846.5                 | 20625 | V            | 22.3        | 3.77         | -3.09      | 22.98        | 38.45 |
|   |                       |       | H            | 16.49       | 3.76         | -3.09      | 17.17        | 38.45 |

### BAND 5 / BW: 5M / QPSK / RB: 1,24

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|  | MHz                   |       | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
| <b>BAND 5<br/>BW: 5M<br/>QPSK<br/>RB: 1,24</b> | 826.5                 | 20425 | V            | 21.78       | 3.76         | -3.04      | 22.5         | 38.45 |
|  |                       |       | H            | 16.76       | 3.76         | -3.04      | 17.47        | 38.45 |
|  | 836.5                 | 20525 | V            | 23.38       | 3.76         | -3.07      | <b>24.07</b> | 38.45 |
|  |                       |       | H            | 18.22       | 3.76         | -3.07      | 18.91        | 38.45 |
|  | 846.5                 | 20625 | V            | 22.33       | 3.77         | -3.1       | 22.99        | 38.45 |
|  |                       |       | H            | 16.46       | 3.77         | -3.1       | 17.12        | 38.45 |

#### Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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### BAND 5 / BW: 5M / 16QAM / RB: 1,0

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|  | MHz                   |       | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
| <b>BAND 5<br/>BW: 5M<br/>16QAM<br/>RB: 1,0</b> | 826.5                 | 20425 | V            | 23.02       | 3.75         | -3.03      | 23.74        | 38.45 |
|  |                       |       | H            | 17.69       | 3.75         | -3.03      | 18.41        | 38.45 |
|  | 836.5                 | 20525 | V            | 23.34       | 3.76         | -3.06      | <b>24.04</b> | 38.45 |
|  |                       |       | H            | 18.43       | 3.76         | -3.06      | 19.13        | 38.45 |
|  | 846.5                 | 20625 | V            | 22.81       | 3.76         | -3.09      | 23.49        | 38.45 |
|  |                       |       | H            | 17.1        | 3.77         | -3.09      | 17.77        | 38.45 |

### BAND 5 / BW: 5M / 16QAM / RB: 1,24

| EUT   |                       |       | Measurement  |             |              |            |              |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                  | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|   | MHz                   |       | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
| <b>BAND 5<br/>BW: 5M<br/>16QAM<br/>RB: 1,24</b> | 826.5                 | 20425 | V            | 22.3        | 3.76         | -3.04      | 23.01        | 38.45 |
|   |                       |       | H            | 17.14       | 3.76         | -3.04      | 17.86        | 38.45 |
|   | 836.5                 | 20525 | V            | 24.05       | 3.76         | -3.07      | <b>24.74</b> | 38.45 |
|   |                       |       | H            | 19          | 3.76         | -3.07      | 19.69        | 38.45 |
|   | 846.5                 | 20625 | V            | 23.06       | 3.77         | -3.1       | 23.72        | 38.45 |
|   |                       |       | H            | 17.24       | 3.77         | -3.1       | 17.91        | 38.45 |

#### Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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**BAND 5 / BW: 10M / QPSK / RB: 1,0**

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                 | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|  | MHz                   |       | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
| <b>BAND 5<br/>BW: 10M<br/>QPSK<br/>RB: 1,0</b> | 829.0                 | 20450 | V            | 23.25       | 3.75         | -3.03      | 23.97        | 38.45 |
|  |                       |       | H            | 17.88       | 3.75         | -3.03      | 18.61        | 38.45 |
|  | 836.5                 | 20525 | V            | 22.41       | 3.76         | -3.05      | 23.11        | 38.45 |
|  |                       |       | H            | 17.34       | 3.76         | -3.05      | 18.04        | 38.45 |
|  | 844.0                 | 20600 | V            | 24.33       | 3.76         | -3.08      | <b>25.02</b> | 38.45 |
|  |                       |       | H            | 18.12       | 3.76         | -3.08      | 18.8         | 38.45 |

**BAND 5 / BW: 10M / QPSK / RB: 1,49**

| EUT   |                       |       | Measurement  |             |              |            |              |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                  | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|   | MHz                   |       | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
| <b>BAND 5<br/>BW: 10M<br/>QPSK<br/>RB: 1,49</b> | 829.0                 | 20450 | V            | 22.96       | 3.76         | -3.05      | 23.67        | 38.45 |
|   |                       |       | H            | 18.19       | 3.76         | -3.06      | 18.89        | 38.45 |
|   | 836.5                 | 20525 | V            | 23.39       | 3.76         | -3.08      | <b>24.08</b> | 38.45 |
|   |                       |       | H            | 17.7        | 3.76         | -3.08      | 18.38        | 38.45 |
|   | 844.0                 | 20600 | V            | 22.56       | 3.77         | -3.1       | 23.23        | 38.45 |
|   |                       |       | H            | 16.59       | 3.77         | -3.1       | 17.25        | 38.45 |

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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**BAND 5 / BW: 10M / 16QAM / RB: 1,0**

| EUT   |                       |       | Measurement  |             |              |            |              |       |
|---|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                  | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|   | MHz                   |       | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
| <b>BAND 5<br/>BW: 10M<br/>16QAM<br/>RB: 1,0</b> | 829.0                 | 20450 | V            | 23.37       | 3.75         | -3.03      | 24.1         | 38.45 |
|   |                       |       | H            | 17.97       | 3.76         | -3.03      | 18.69        | 38.45 |
|   | 836.5                 | 20525 | V            | 23.09       | 3.76         | -3.05      | 23.79        | 38.45 |
|   |                       |       | H            | 18.14       | 3.76         | -3.05      | 18.85        | 38.45 |
|   | 844.0                 | 20600 | V            | 24.55       | 3.76         | -3.08      | <b>25.23</b> | 38.45 |
|   |                       |       | H            | 18.89       | 3.76         | -3.08      | 19.57        | 38.45 |

**BAND 5 / BW: 10M / 16QAM / RB: 1,49**

| EUT  |                       |       | Measurement  |             |              |            |              |       |
|--|-----------------------|-------|--------------|-------------|--------------|------------|--------------|-------|
| Operation Band                                   | Fundamental Frequency | CH    | Antenna Pol. | S.G. Output | Antenna Gain | Cable Loss | ERP          | Limit |
|  | MHz                   |       | V/H          | dBm         | dB           | dB         | dBm          | dBm   |
| <b>BAND 5<br/>BW: 10M<br/>16QAM<br/>RB: 1,49</b> | 829.0                 | 20450 | V            | 23.38       | 3.76         | -3.06      | 24.09        | 38.45 |
|  |                       |       | H            | 18.38       | 3.76         | -3.05      | 19.09        | 38.45 |
|  | 836.5                 | 20525 | V            | 23.96       | 3.76         | -3.08      | <b>24.65</b> | 38.45 |
|  |                       |       | H            | 18.38       | 3.76         | -3.08      | 19.06        | 38.45 |
|  | 844.0                 | 20600 | V            | 23.49       | 3.77         | -3.1       | 24.16        | 38.45 |
|  |                       |       | H            | 17.44       | 3.77         | -3.1       | 18.1         | 38.45 |

**Remark :**

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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## 8. OCCUPIED BANDWIDTH MEASUREMENT

### 8.1. Standard Applicable:

According to §FCC 2.1049 (99%)

### 8.2. Test Set-up:

Refer to section 6.2 in this report

### 8.3. Measurement Procedure:

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 \* Signal BW, set % Power = 99%.

**NOTE:** For the plot of bandwidth measurement, the marker of the 99% bandwidth is diamond-shape

### 8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

### 8.5. Measurement Result:

Refer to next pages.

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**99% Bandwidth**

| EUT Mode | Frequency (MHz) | CH  | 99% Bandwidth (MHz) |
|----------|-----------------|-----|---------------------|
| GSM 850  | 824.20          | 128 | <b>0.247</b>        |
|          | 836.60          | 190 | 0.247               |
|          | 848.80          | 251 | 0.245               |

| EUT Mode | Frequency (MHz) | CH  | 99% Bandwidth (MHz) |
|----------|-----------------|-----|---------------------|
| GSM 1900 | 1850.20         | 512 | 0.243               |
|          | 1880.00         | 661 | 0.245               |
|          | 1909.80         | 810 | <b>0.250</b>        |

| EUT Mode | Frequency (MHz) | CH  | 99% Bandwidth (MHz) |
|----------|-----------------|-----|---------------------|
| GPRS 850 | 824.20          | 128 | 0.244               |
|          | 836.60          | 190 | 0.243               |
|          | 848.80          | 251 | <b>0.246</b>        |

| EUT Mode  | Frequency (MHz) | CH  | 99% Bandwidth (MHz) |
|-----------|-----------------|-----|---------------------|
| GPRS 1900 | 1850.20         | 512 | 0.242               |
|           | 1880.00         | 661 | <b>0.246</b>        |
|           | 1909.80         | 810 | 0.244               |

| EUT Mode | Frequency (MHz) | CH  | 99% Bandwidth (MHz) |
|----------|-----------------|-----|---------------------|
| EDGE 850 | 824.20          | 128 | <b>0.250</b>        |
|          | 836.60          | 190 | 0.249               |
|          | 848.80          | 251 | 0.242               |

| EUT Mode  | Frequency (MHz) | CH  | 99% Bandwidth (MHz) |
|-----------|-----------------|-----|---------------------|
| EDGE 1900 | 1850.20         | 512 | <b>0.248</b>        |
|           | 1880.00         | 661 | 0.252               |
|           | 1909.80         | 810 | 0.244               |

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| EUT Mode | Frequency (MHz) | CH   | 99% Bandwidth (MHz) |
|----------|-----------------|------|---------------------|
| WCDMA II | 1852.40         | 9262 | <b>4.2227</b>       |
|          | 1880.00         | 9400 | 4.2045              |
|          | 1907.60         | 9538 | 4.1969              |

| EUT Mode | Frequency (MHz) | CH   | 99% Bandwidth (MHz) |
|----------|-----------------|------|---------------------|
| WCDMA V  | 826.40          | 4132 | 4.2035              |
|          | 836.00          | 4183 | <b>4.2262</b>       |
|          | 846.60          | 4233 | 4.1913              |

| EUT Mode | Frequency (MHz) | CH   | 99% Bandwidth (MHz) |
|----------|-----------------|------|---------------------|
| HSDPA II | 1852.40         | 9262 | <b>4.2148</b>       |
|          | 1880.00         | 9400 | 4.1958              |
|          | 1907.60         | 9538 | 4.2052              |

| EUT Mode | Frequency (MHz) | CH   | 99% Bandwidth (MHz) |
|----------|-----------------|------|---------------------|
| HSDPA V  | 826.40          | 4132 | 4.1996              |
|          | 836.60          | 4183 | <b>4.2324</b>       |
|          | 846.60          | 4233 | 4.1864              |

| EUT Mode | Frequency (MHz) | CH   | 99% Bandwidth (MHz) |
|----------|-----------------|------|---------------------|
| HSUPA II | 1852.40         | 9262 | 4.1834              |
|          | 1880.00         | 9400 | 4.1964              |
|          | 1907.60         | 9538 | <b>4.1987</b>       |

| EUT Mode | Frequency (MHz) | CH   | 99% Bandwidth (MHz) |
|----------|-----------------|------|---------------------|
| HSUPA V  | 826.40          | 4132 | 4.1994              |
|          | 836.60          | 4183 | <b>4.2321</b>       |
|          | 846.60          | 4233 | 4.1863              |

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| EUT Mode   | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|--|-----------------|-------|---------------------|
| 1.4MHz BW<br>LTE-Band 2<br>(QPSK<br>RB Number: 6<br>Offset: 0) | 1850.7          | 18607 | 1.0939              |
|  | 1880.0          | 18900 | 1.0908              |
|  | 1909.3          | 19193 | <b>1.0990</b>       |

| EUT Mode  | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|---|-----------------|-------|---------------------|
| 1.4MHz BW<br>LTE-Band 2<br>(16QAM<br>RB Number: 6<br>Offset: 0) | 1850.7          | 18607 | 1.0917              |
|   | 1880.0          | 18900 | 1.0936              |
|   | 1909.3          | 19193 | <b>1.1027</b>       |

| EUT Mode  | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|---|-----------------|-------|---------------------|
| 3MHz BW<br>LTE-Band 2<br>(QPSK<br>RB Number: 15<br>Offset: 0) | 1851.5          | 18615 | 2.7106              |
|   | 1880.0          | 18900 | <b>2.7145</b>       |
|   | 1908.5          | 19185 | 2.6982              |

| EUT Mode   | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|--|-----------------|-------|---------------------|
| 3MHz BW<br>LTE-Band 2<br>(16QAM<br>RB Number: 15<br>Offset: 0) | 1851.5          | 18615 | <b>2.7055</b>       |
|  | 1880.0          | 18900 | 2.7007              |
|  | 1908.5          | 19185 | 2.6999              |

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| EUT Mode  | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|---|-----------------|-------|---------------------|
| 5MHz BW<br>LTE-Band 2<br>(QPSK<br>RB Number: 25<br>Offset: 0) | 1852.5          | 18625 | 4.5265              |
|   | 1880.0          | 18900 | 4.5139              |
|   | 1907.5          | 19175 | <b>4.5344</b>       |

| EUT Mode   | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|--|-----------------|-------|---------------------|
| 5MHz BW<br>LTE-Band 2<br>(16QAM<br>RB Number: 25<br>Offset: 0) | 1852.5          | 18625 | 4.5216              |
|  | 1880.0          | 18900 | 4.5083              |
|  | 1907.5          | 19175 | <b>4.5256</b>       |

| EUT Mode   | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|--|-----------------|-------|---------------------|
| 10MHz BW<br>LTE-Band 2<br>(QPSK<br>RB Number: 50<br>Offset: 0) | 1855.0          | 18650 | <b>8.9920</b>       |
|  | 1880.0          | 18900 | 8.9767              |
|  | 1905.0          | 19150 | 8.9906              |

| EUT Mode  | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|---|-----------------|-------|---------------------|
| 10MHz BW<br>LTE-Band 2<br>(16QAM<br>RB Number: 50<br>Offset: 0) | 1855.0          | 18650 | 8.9750              |
|   | 1880.0          | 18900 | 8.9507              |
|   | 1905.0          | 19150 | <b>8.9911</b>       |

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| EUT Mode   | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|--|-----------------|-------|---------------------|
| 15MHz BW<br>LTE-Band 2<br>(QPSK<br>RB Number: 75<br>Offset: 0) | 1857.5          | 18675 | 13.4789             |
|  | 1880.0          | 18900 | 13.4170             |
|  | 1902.5          | 19125 | <b>13.5229</b>      |

| EUT Mode  | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|---|-----------------|-------|---------------------|
| 15MHz BW<br>LTE-Band 2<br>(16QAM<br>RB Number: 75<br>Offset: 0) | 1857.5          | 18675 | 13.4688             |
|   | 1880.0          | 18900 | 13.4897             |
|   | 1902.5          | 19125 | <b>13.5330</b>      |

| EUT Mode  | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|---|-----------------|-------|---------------------|
| 20MHz BW<br>LTE-Band 2<br>(QPSK<br>RB Number: 100<br>Offset: 0) | 1860.0          | 18700 | 17.9114             |
|   | 1880.0          | 18900 | 17.9151             |
|   | 1900.0          | 19100 | <b>18.0293</b>      |

| EUT Mode   | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|--|-----------------|-------|---------------------|
| 20MHz BW<br>LTE-Band 2<br>(16QAM<br>RB Number: 100<br>Offset: 0) | 1860.0          | 18700 | 17.9546             |
|  | 1880.0          | 18900 | 17.8620             |
|  | 1900.0          | 19100 | <b>18.0014</b>      |

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| EUT Mode   | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|--|-----------------|-------|---------------------|
| 1.4MHz BW<br>LTE-Band 5<br>(QPSK<br>RB Number: 6<br>Offset: 0) | 824.7           | 20407 | 1.0886              |
|  | 836.5           | 20525 | <b>1.0980</b>       |
|  | 848.3           | 20643 | 1.0966              |

| EUT Mode  | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|---|-----------------|-------|---------------------|
| 1.4MHz BW<br>LTE-Band 5<br>(16QAM<br>RB Number: 6<br>Offset: 0) | 824.7           | 20407 | 1.0901              |
|   | 836.5           | 20525 | 1.0964              |
|   | 848.3           | 20643 | <b>1.1026</b>       |

| EUT Mode  | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|---|-----------------|-------|---------------------|
| 3MHz BW<br>LTE-Band 5<br>(QPSK<br>RB Number: 15<br>Offset: 0) | 825.5           | 20415 | 2.7017              |
|   | 836.5           | 20525 | 2.7049              |
|   | 848.3           | 20643 | <b>2.7053</b>       |

| EUT Mode   | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|--|-----------------|-------|---------------------|
| 3MHz BW<br>LTE-Band 5<br>(16QAM<br>RB Number: 15<br>Offset: 0) | 825.5           | 20415 | 2.6969              |
|  | 836.5           | 20525 | 2.6966              |
|  | 848.3           | 20643 | <b>2.7041</b>       |

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| EUT Mode  | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|---|-----------------|-------|---------------------|
| 5MHz BW<br>LTE-Band 5<br>(QPSK<br>RB Number: 25<br>Offset: 0) | 826.5           | 20425 | 4.5080              |
|   | 836.5           | 20525 | 4.5307              |
|   | 847.5           | 20625 | <b>4.5311</b>       |

| EUT Mode   | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|--|-----------------|-------|---------------------|
| 5MHz BW<br>LTE-Band 5<br>(16QAM<br>RB Number: 25<br>Offset: 0) | 826.5           | 20425 | 4.5107              |
|  | 836.5           | 20525 | <b>4.5272</b>       |
|  | 847.5           | 20625 | 4.5111              |

| EUT Mode   | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|--|-----------------|-------|---------------------|
| 10MHz BW<br>LTE-Band 5<br>(QPSK<br>RB Number: 50<br>Offset: 0) | 829.0           | 20450 | 8.9716              |
|  | 836.5           | 20525 | <b>9.0197</b>       |
|  | 844.0           | 20600 | 8.9546              |

| EUT Mode  | Frequency (MHz) | CH    | 99% Bandwidth (MHz) |
|---|-----------------|-------|---------------------|
| 10MHz BW<br>LTE-Band 5<br>(16QAM<br>RB Number: 50<br>Offset: 0) | 829.0           | 20450 | 8.9594              |
|   | 836.5           | 20525 | <b>9.0510</b>       |
|   | 844.0           | 20600 | 8.9498              |

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## 99% Bandwidth Test Data

Figure 8-1: GSM 850 Channel Low

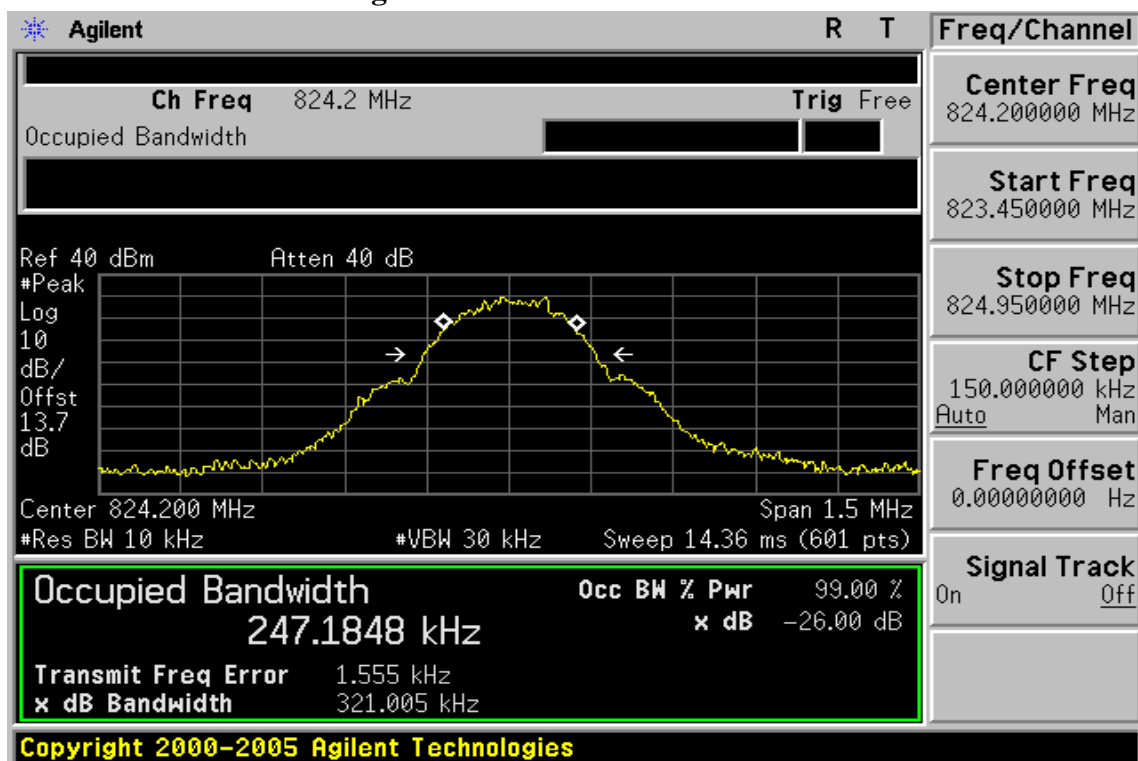
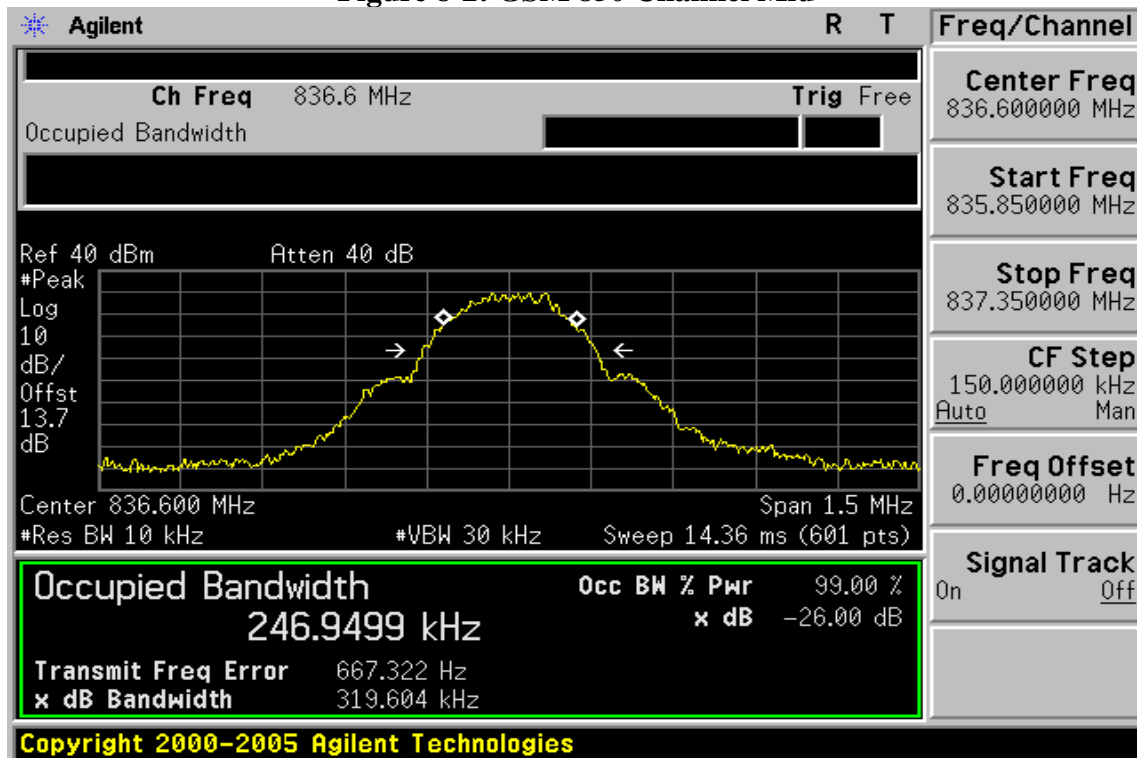


Figure 8-2: GSM 850 Channel Mid



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Figure 8-3: GSM 850 Channel High

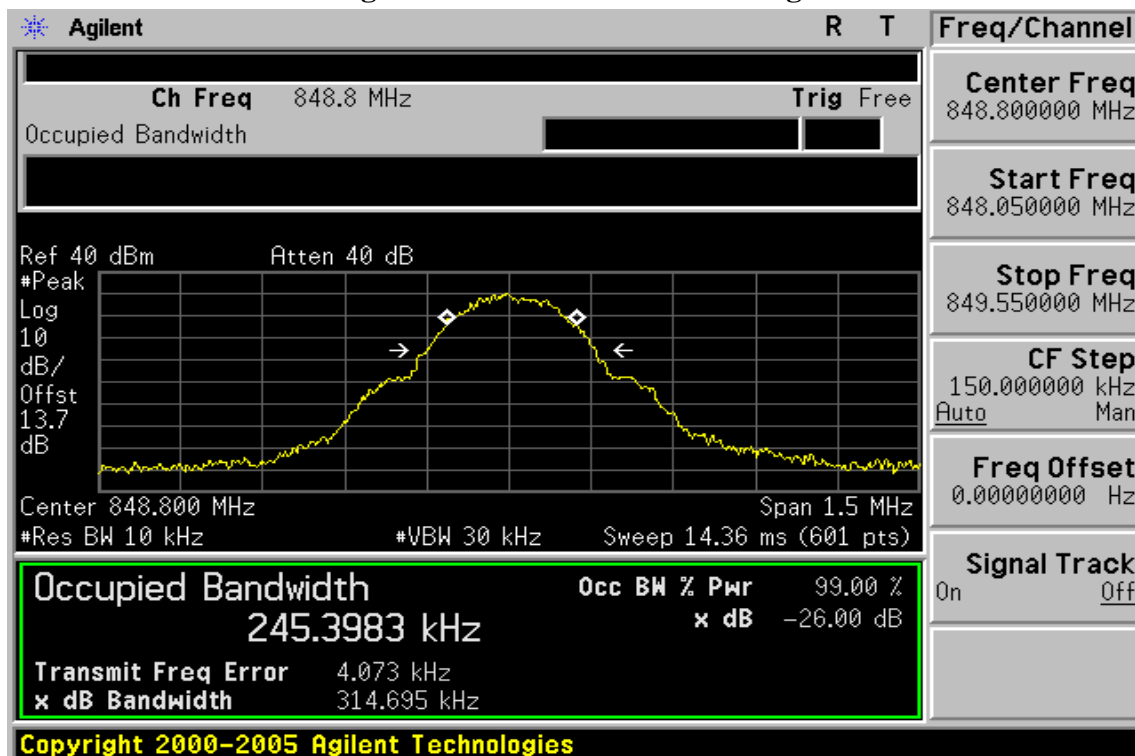
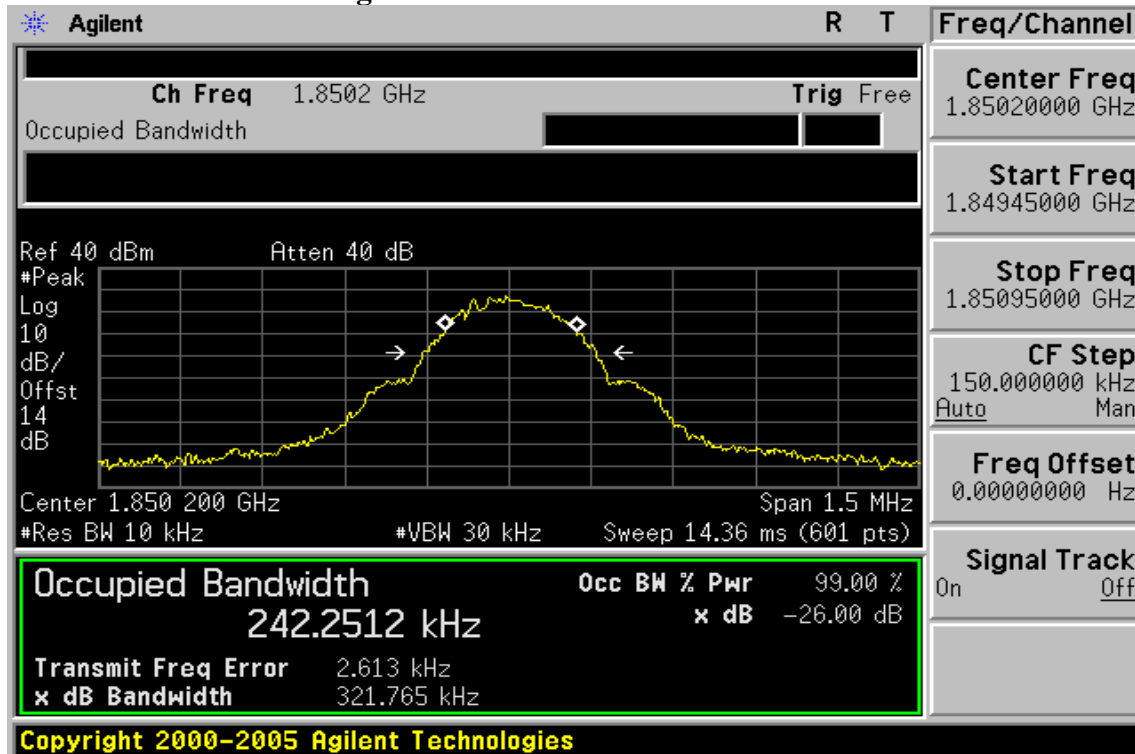


Figure 8-4: GSM 1900 Channel Low



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Figure 8-5: GSM 1900 Channel Mid

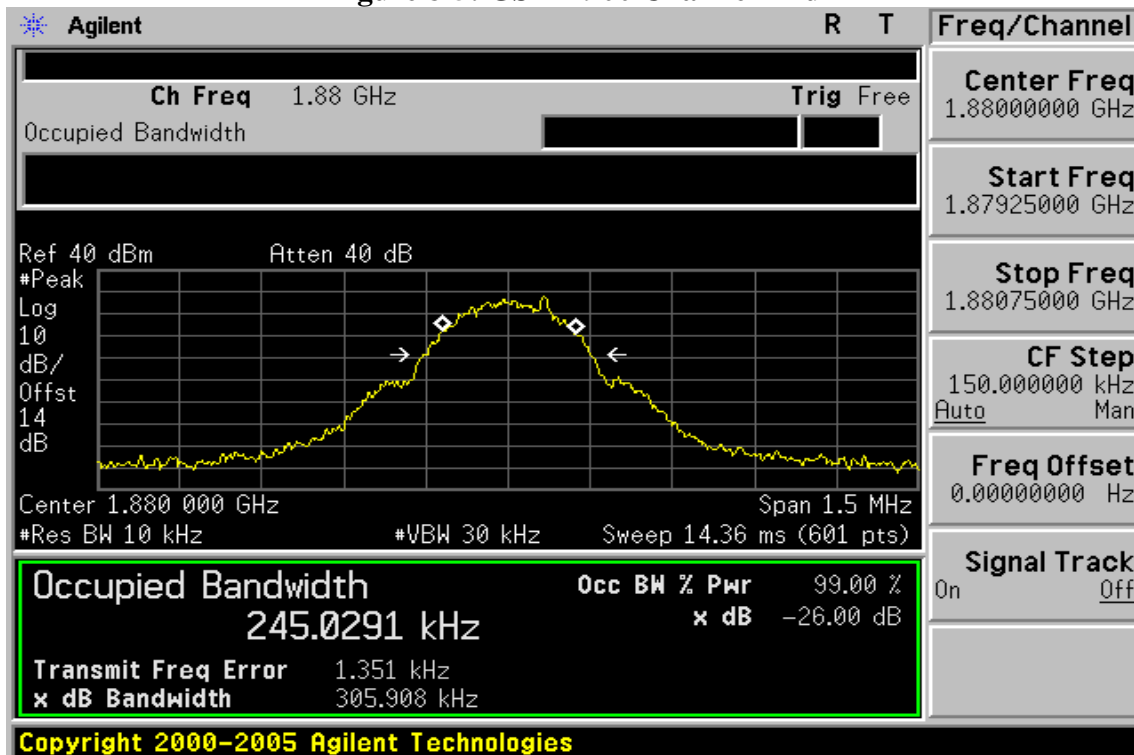
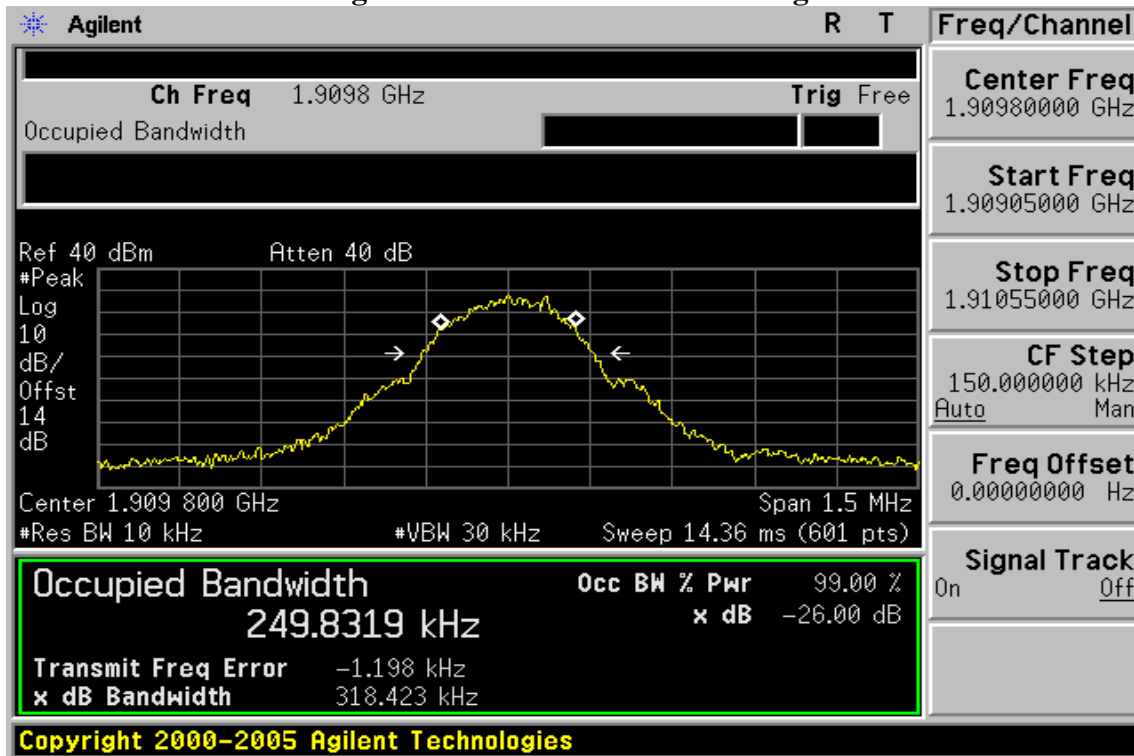


Figure 8-6: GSM 1900 Channel High



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Figure 8-7: GPRS 850 Channel Low

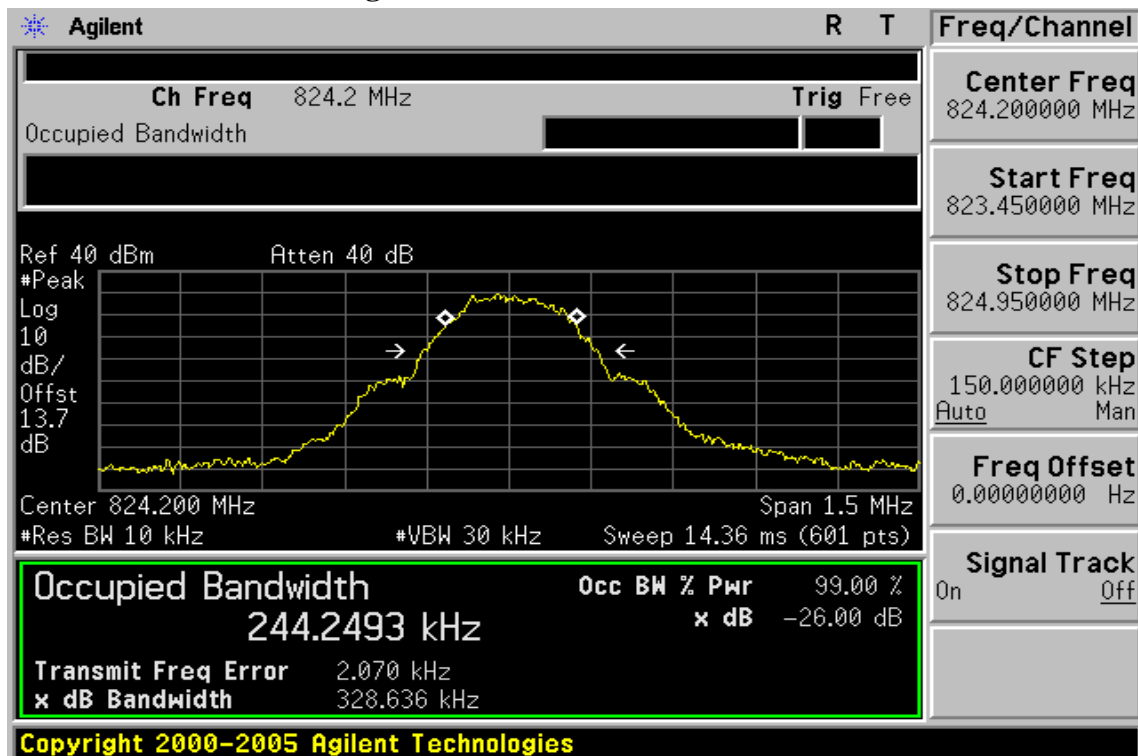
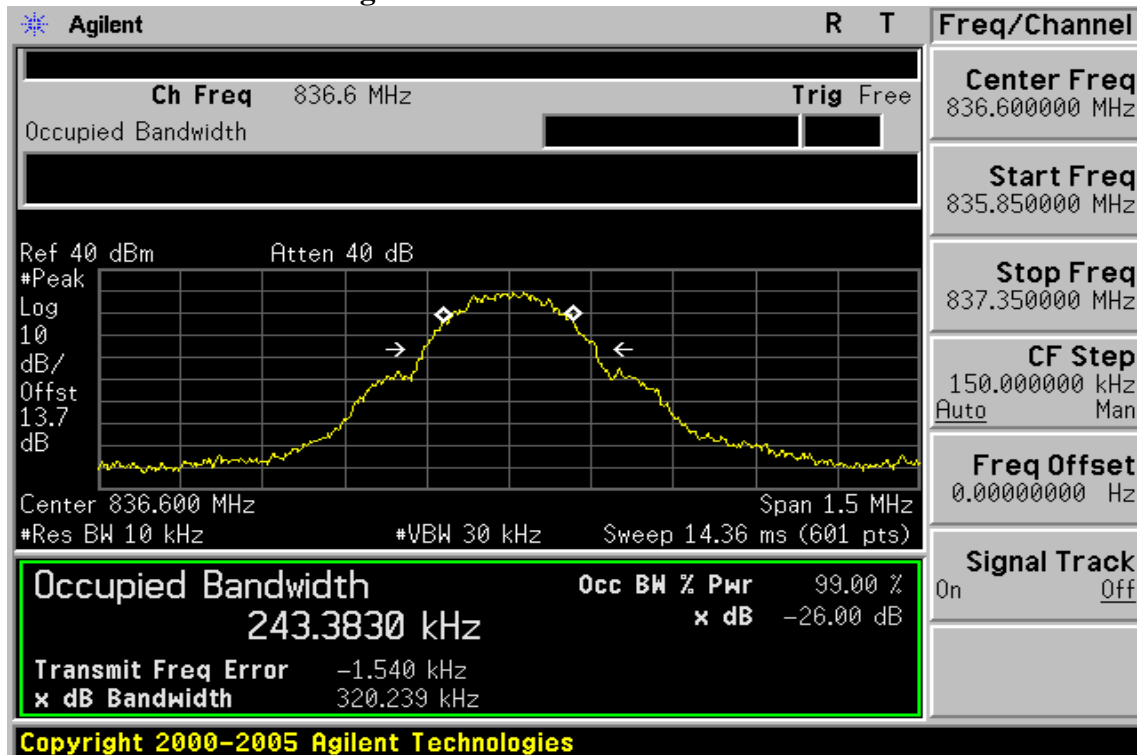


Figure 8-8: GPRS 850 Channel Mid



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Figure 8-9: GPRS 850 Channel High

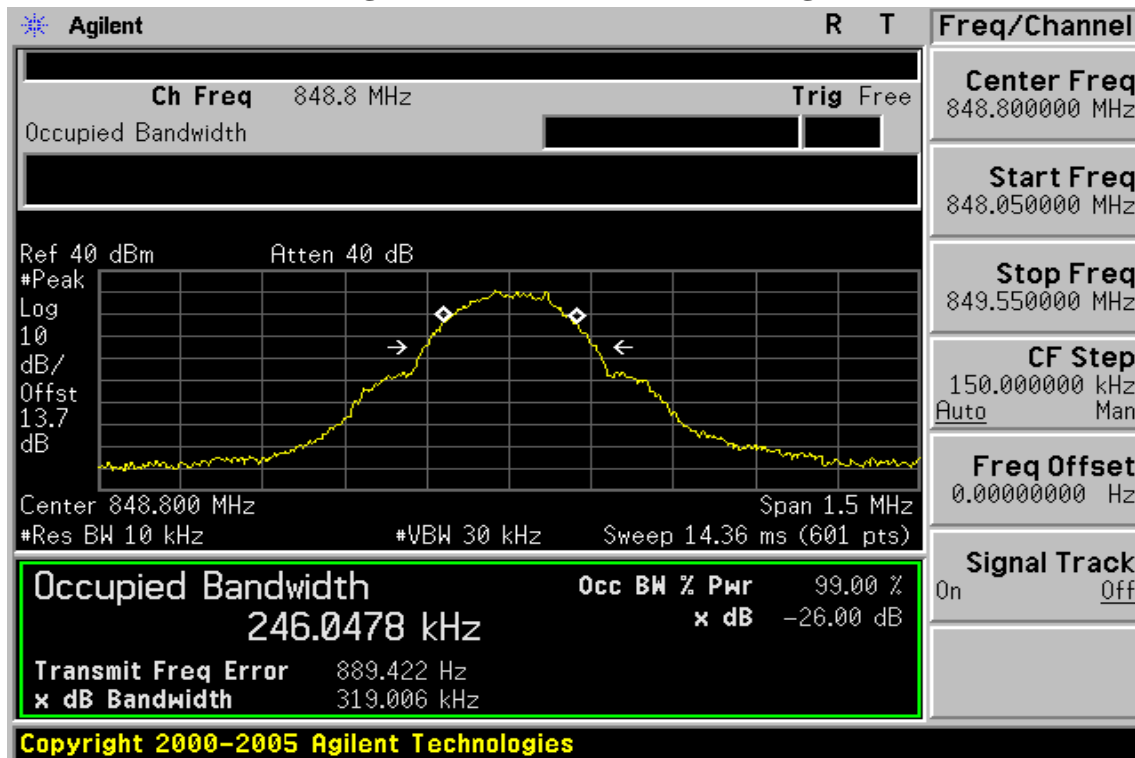
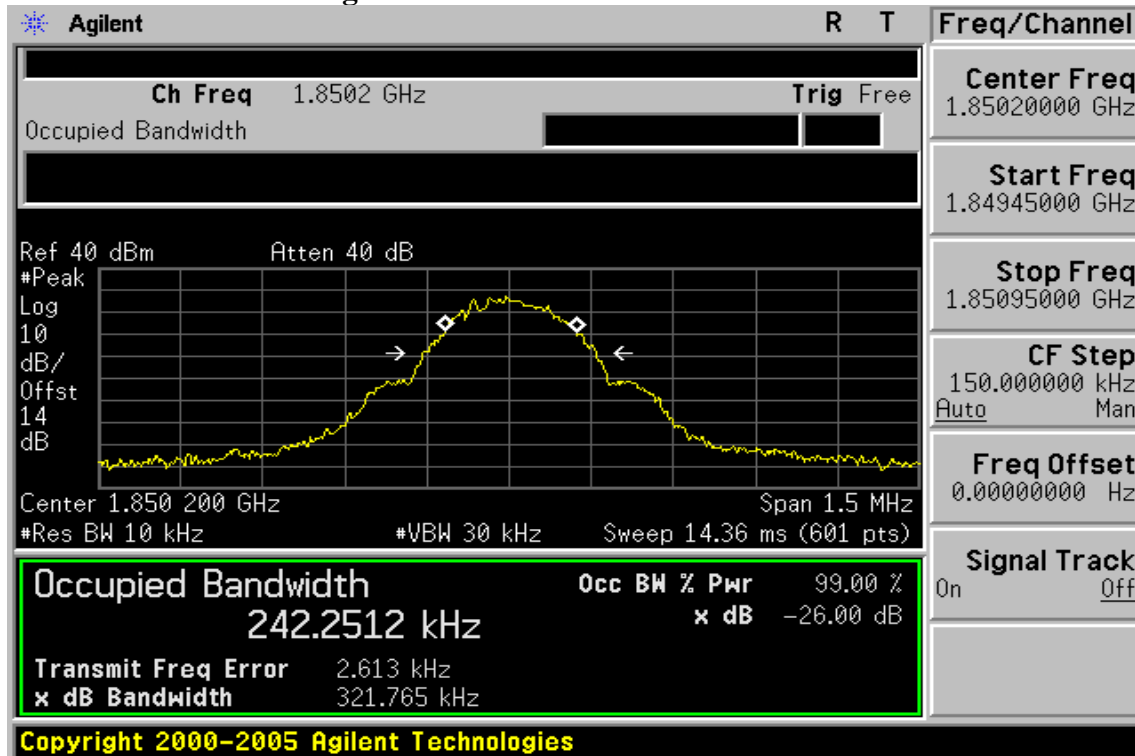


Figure 8-10: GPRS 1900 Channel Low



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Figure 8-11: GPRS 1900 Channel Mid

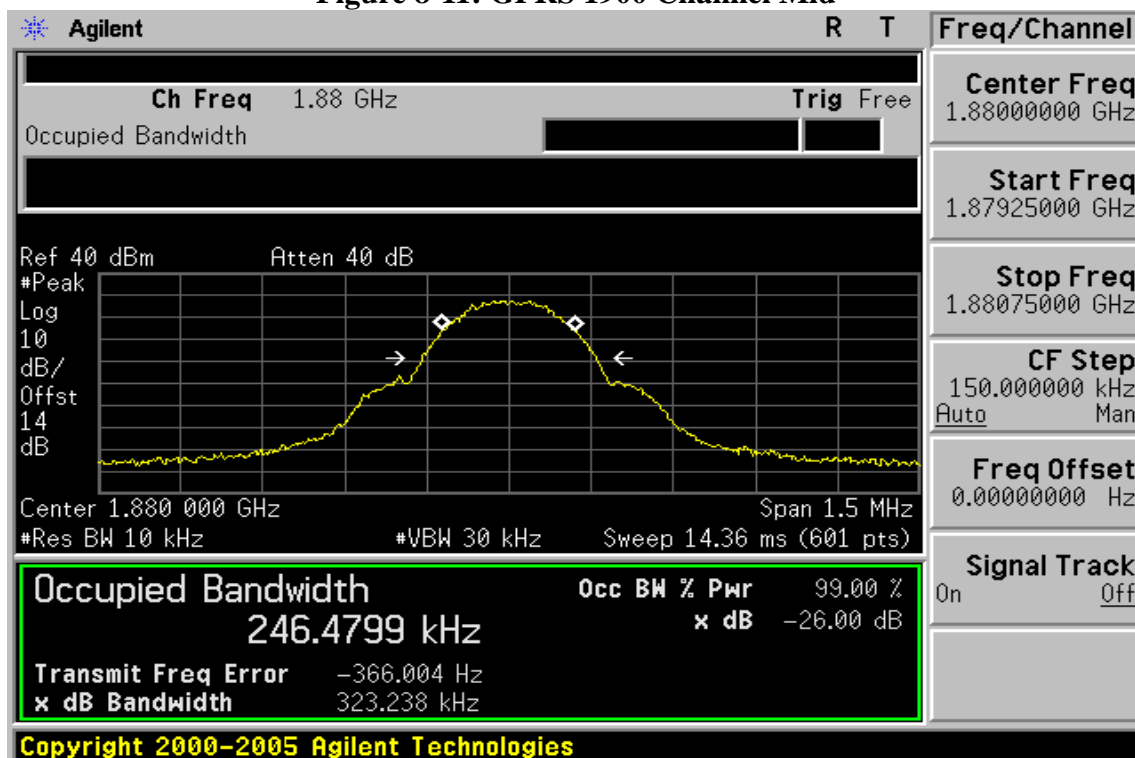
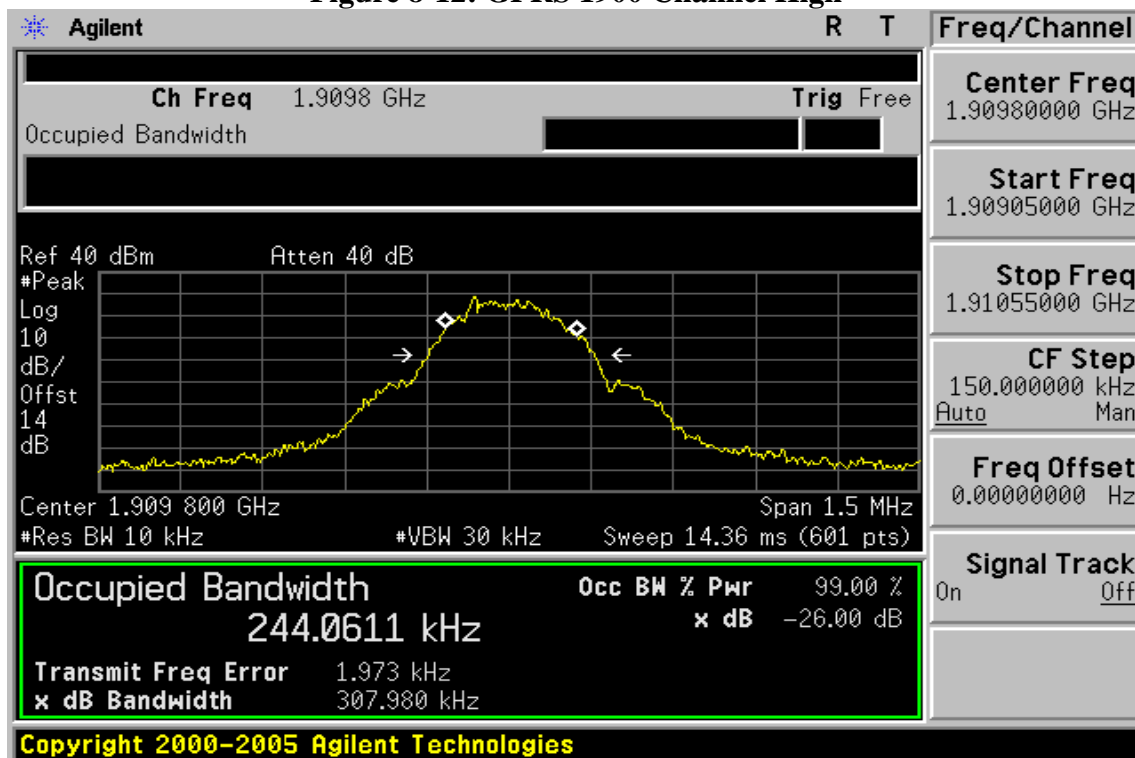


Figure 8-12: GPRS 1900 Channel High



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Figure 8-13: EDGE 850 Channel Low

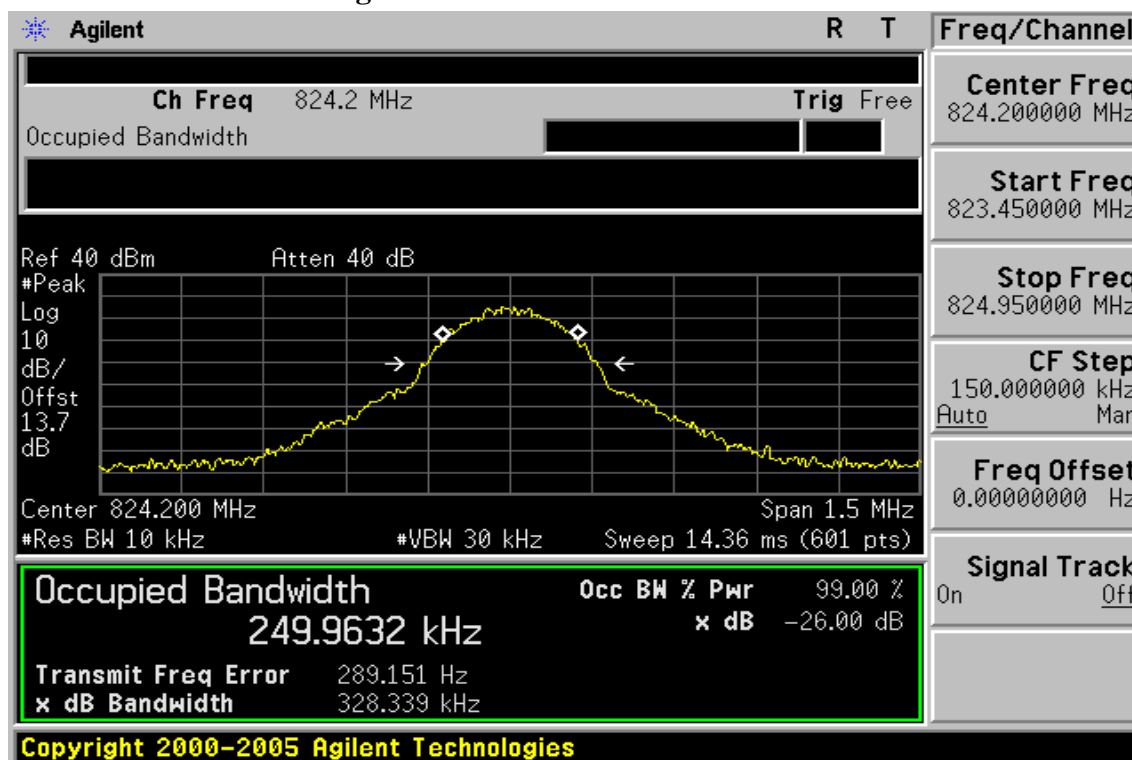
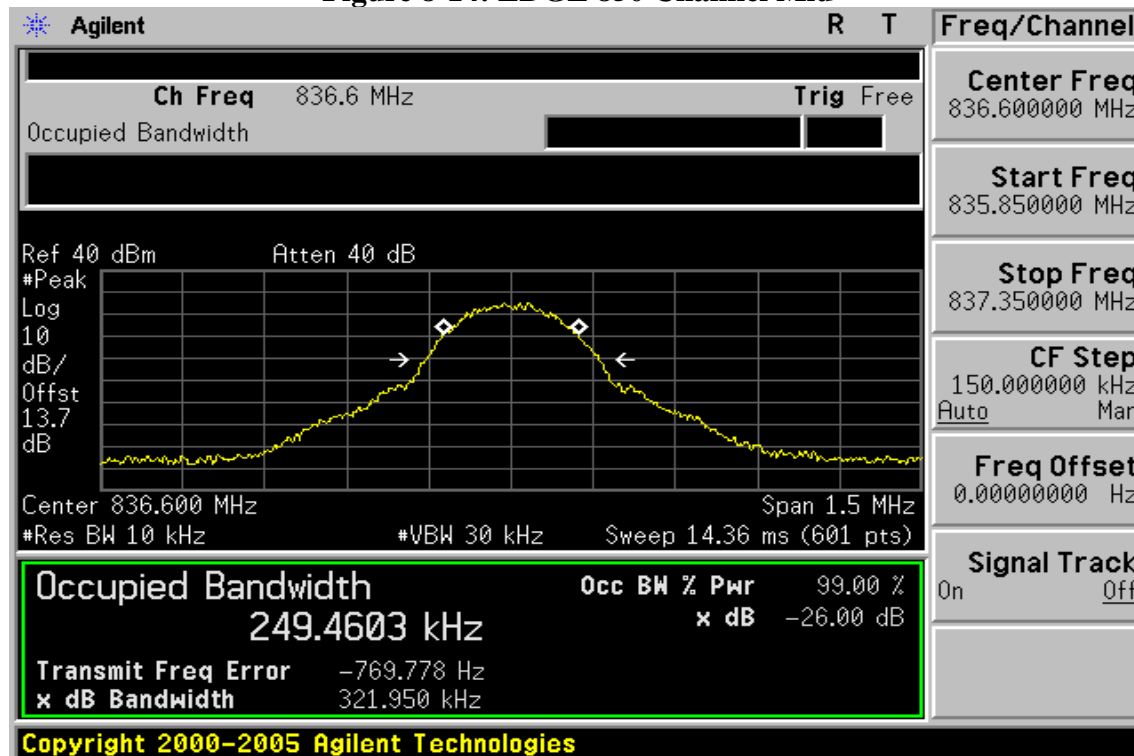


Figure 8-14: EDGE 850 Channel Mid



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GPRS Figure 8-15: EDGE 850 Channel High

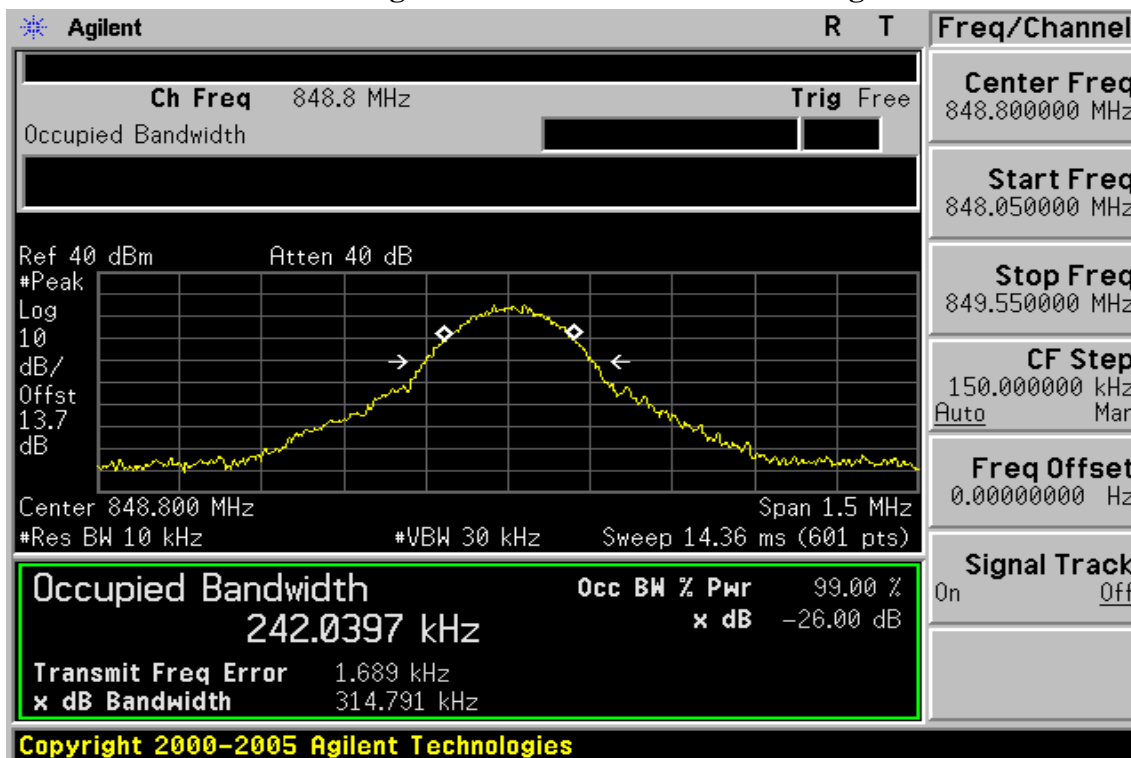
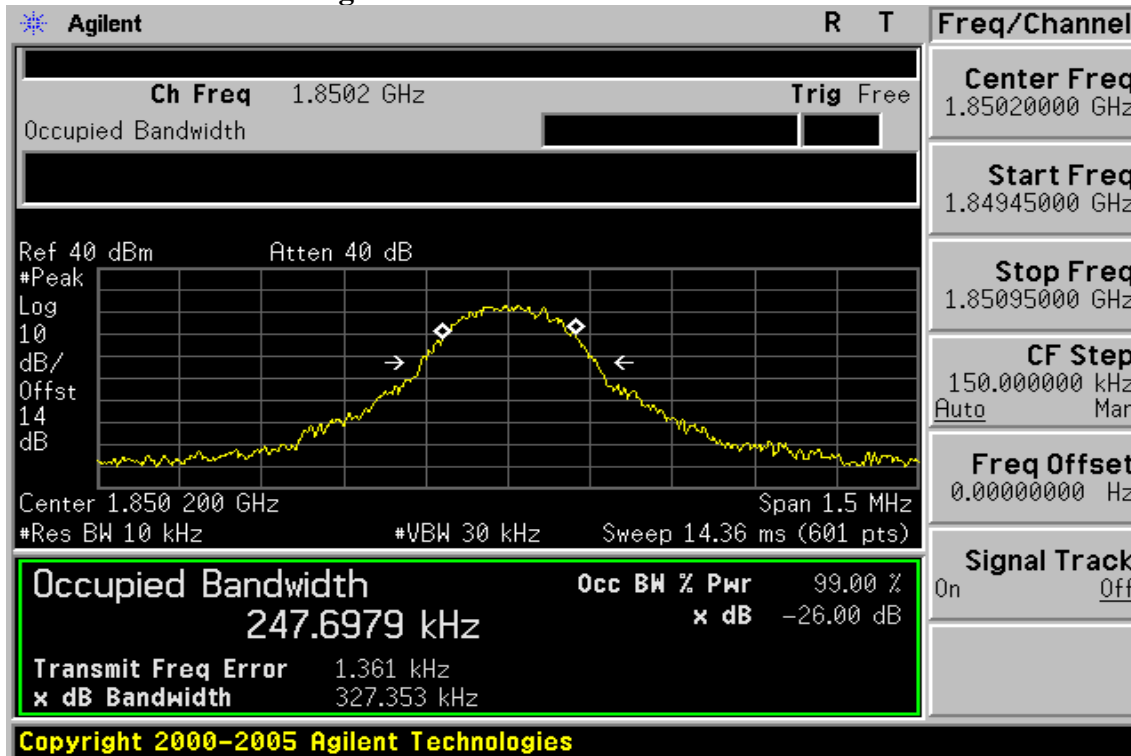


Figure 8-16: EDGE 1900 Channel Low



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Figure 8-17: EDGE 1900 Channel Mid

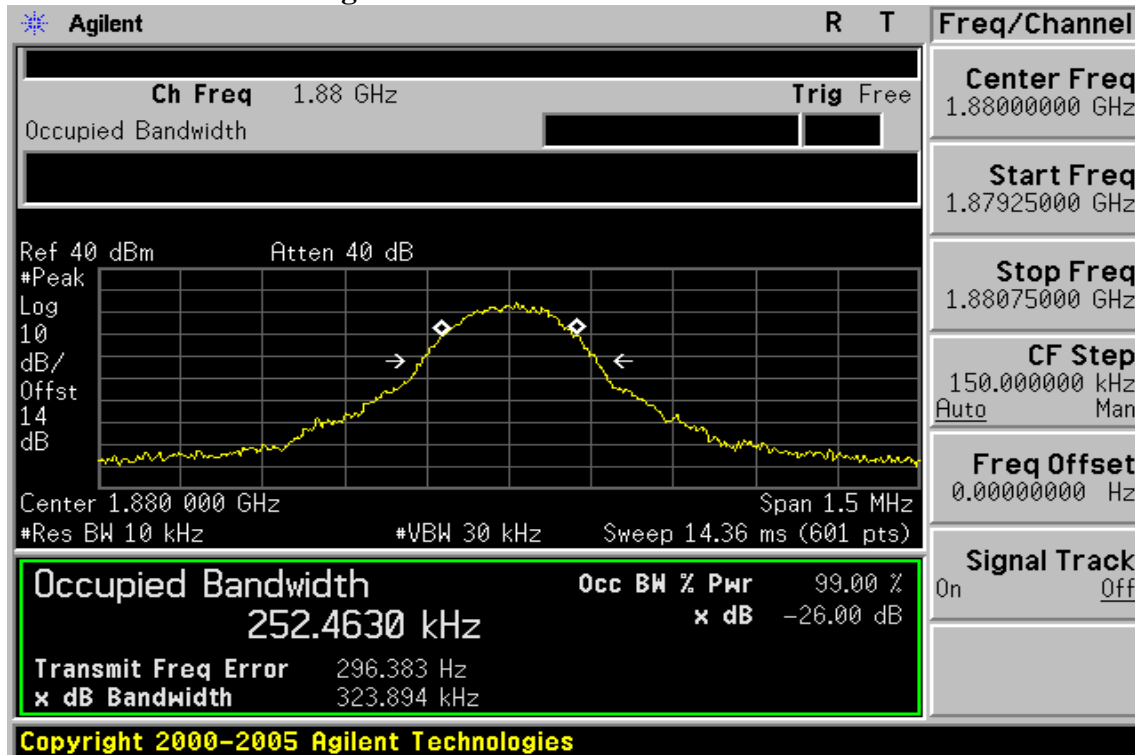
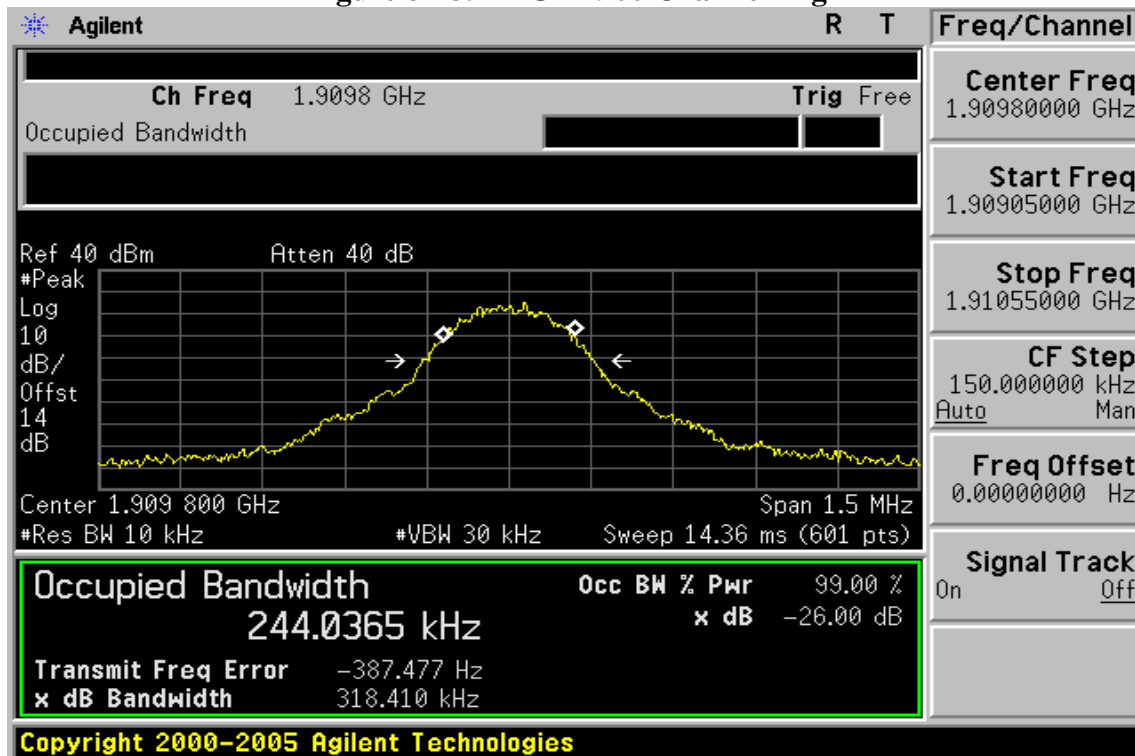


Figure 8-18: EDGE 1900 Channel High



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Figure 8-19: WCDMA II Channel Low

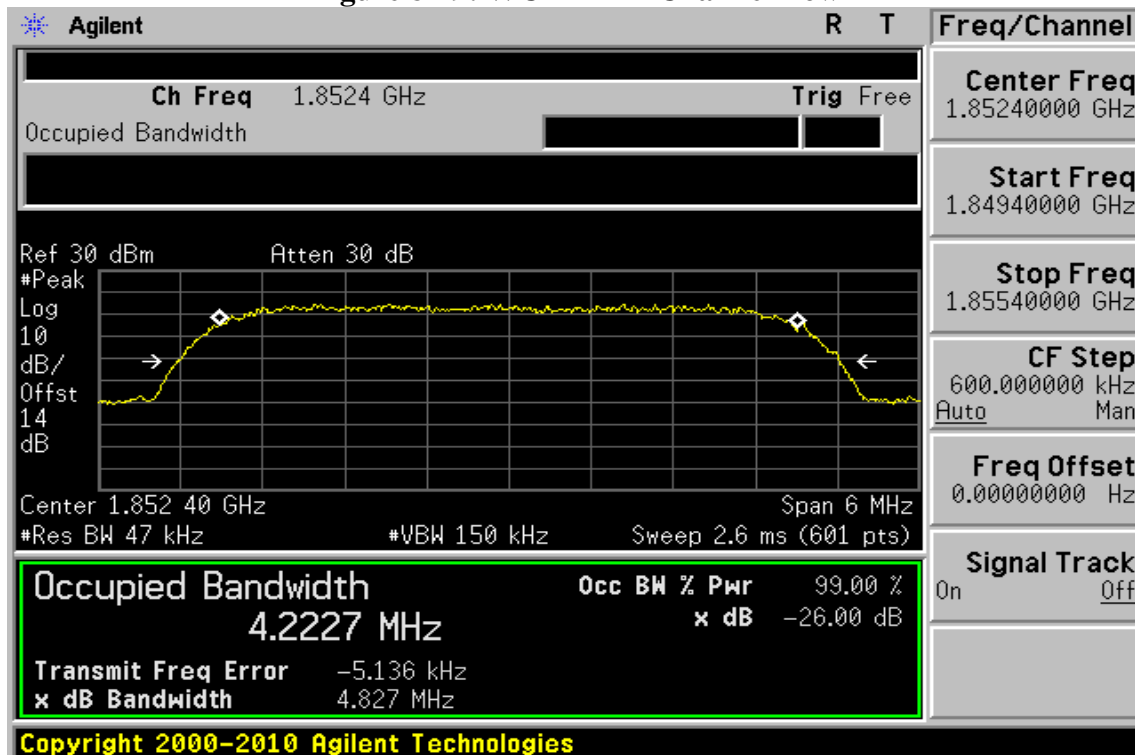
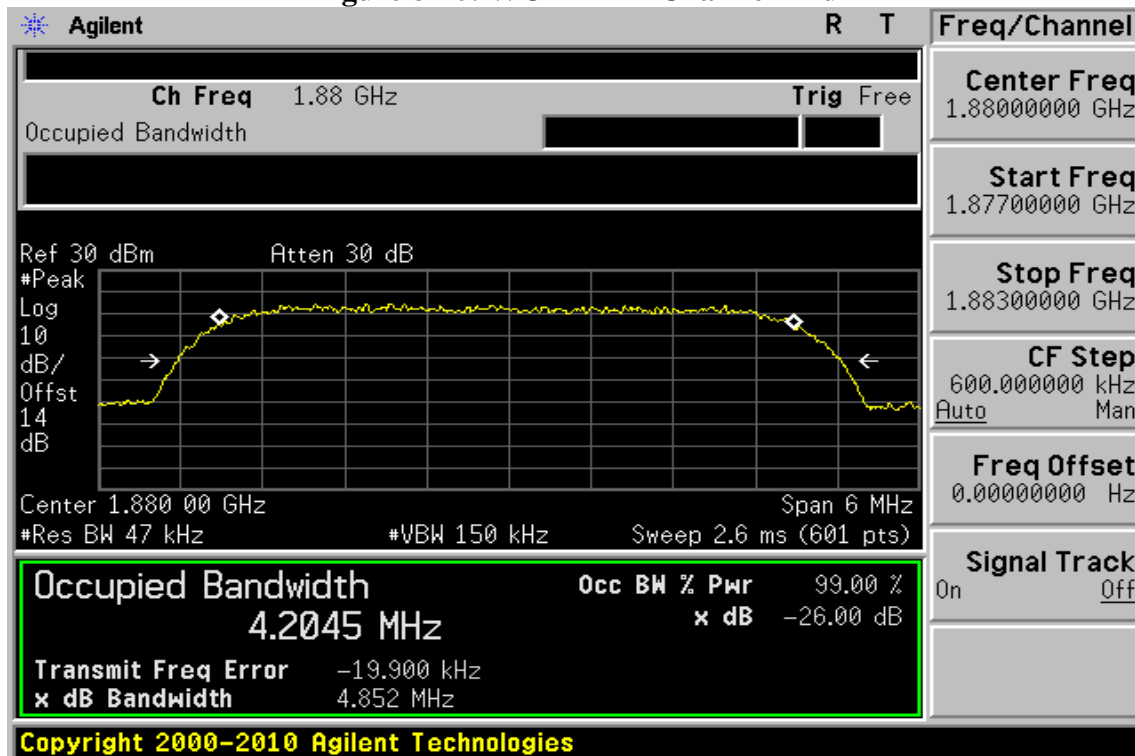


Figure 8-20: WCDMA II Channel Mid



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Figure 8-21: WCDMA II Channel High

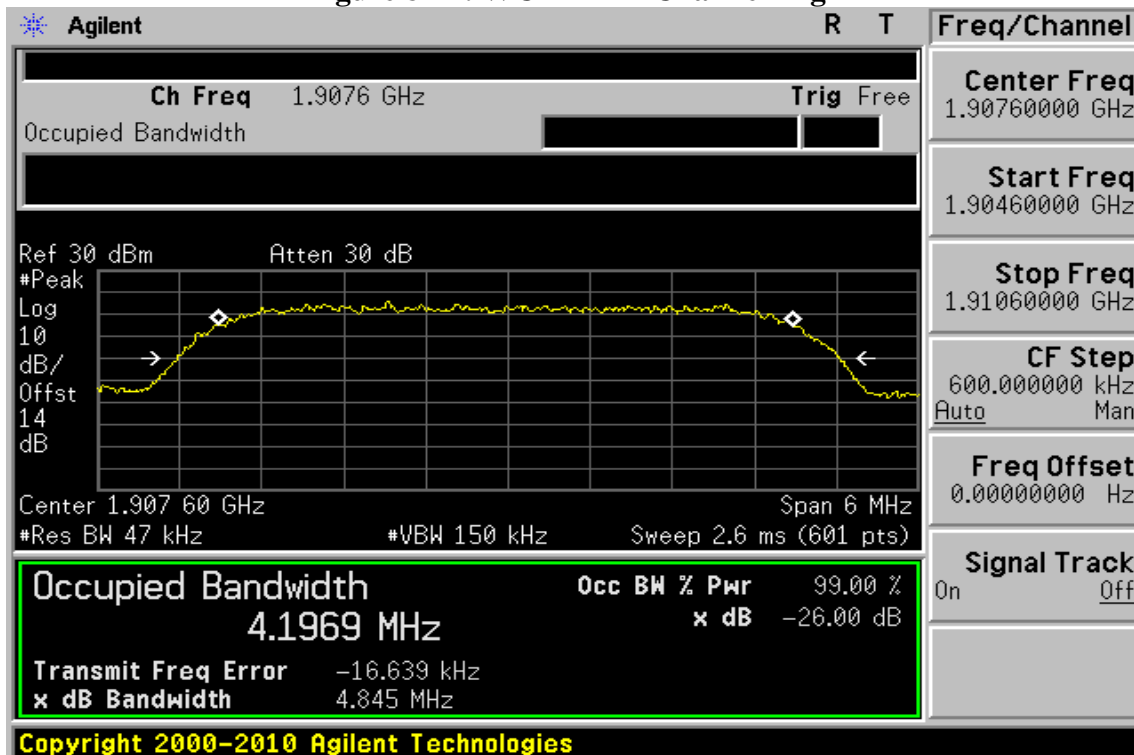
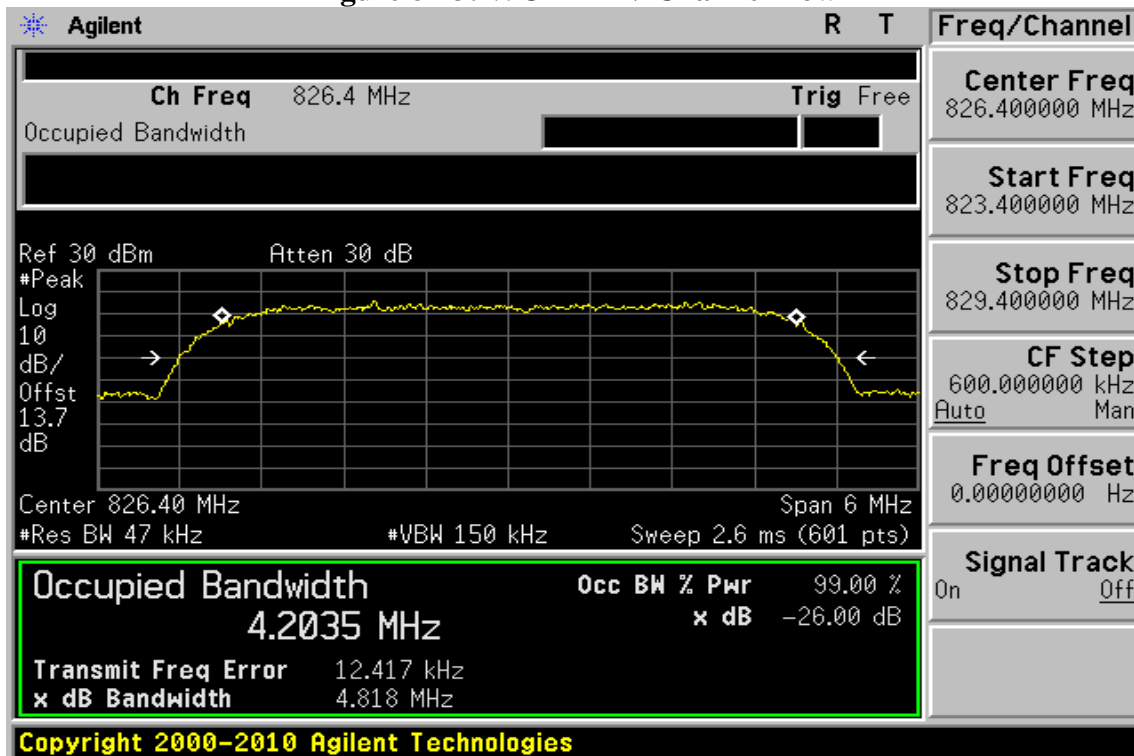


Figure 8-23: WCDMA V Channel Low



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Figure 8-24: WCDMA V Channel Mid

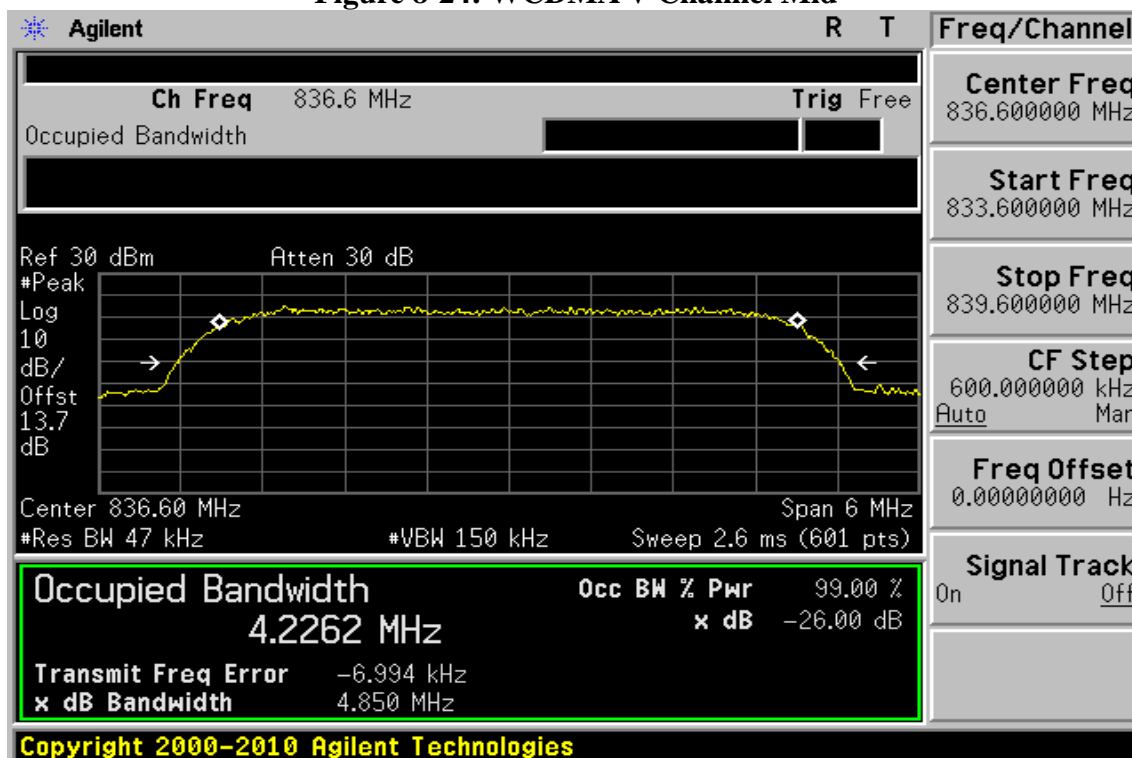
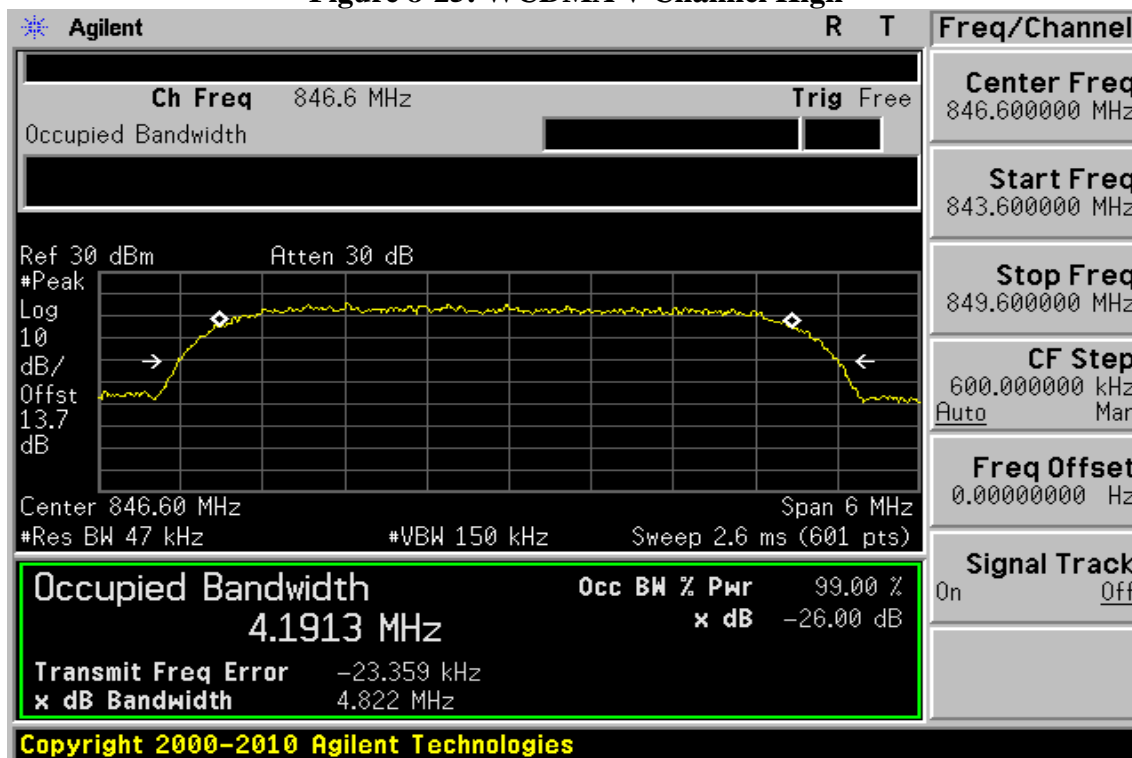


Figure 8-25: WCDMA V Channel High



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Figure 8-26: HSDPA II Channel Low

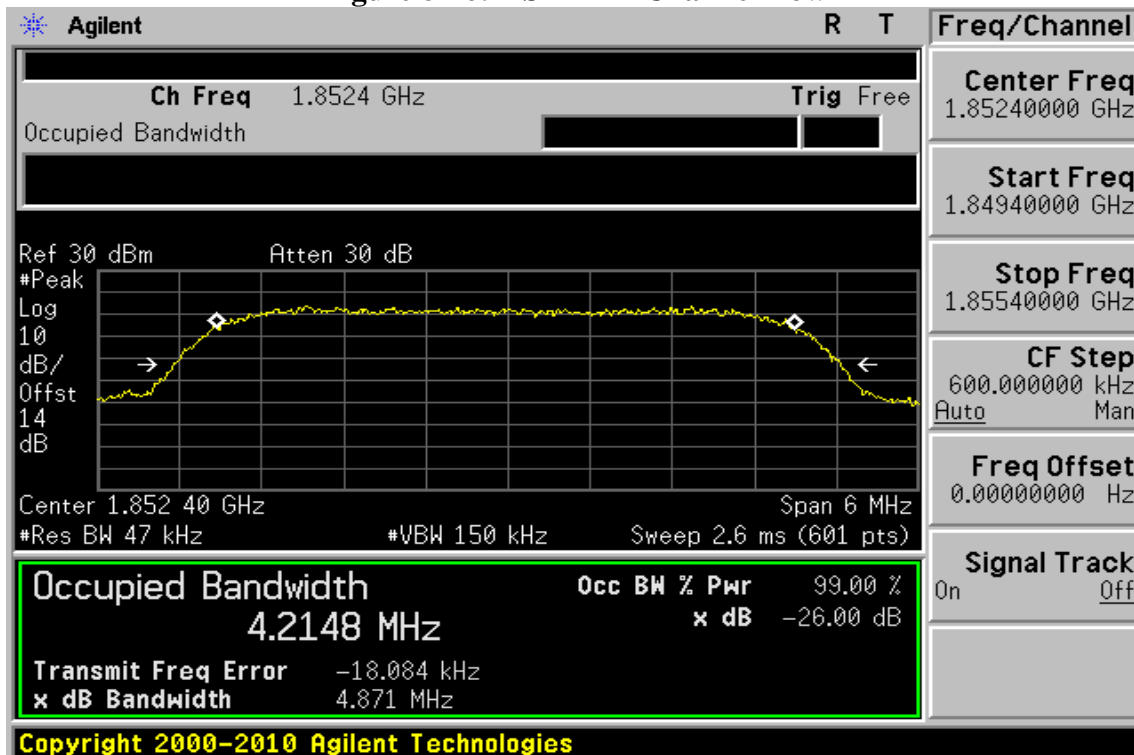
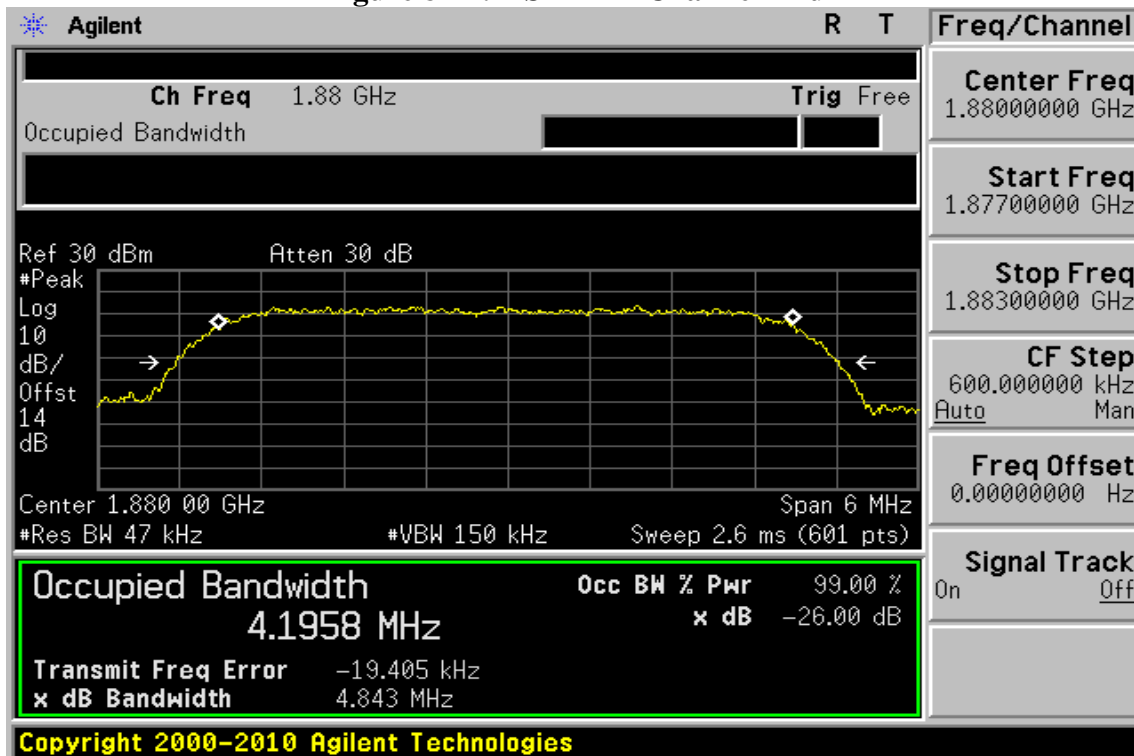


Figure 8-27: HSDPA II Channel Mid



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Figure 8-28: HSDPA II Channel High

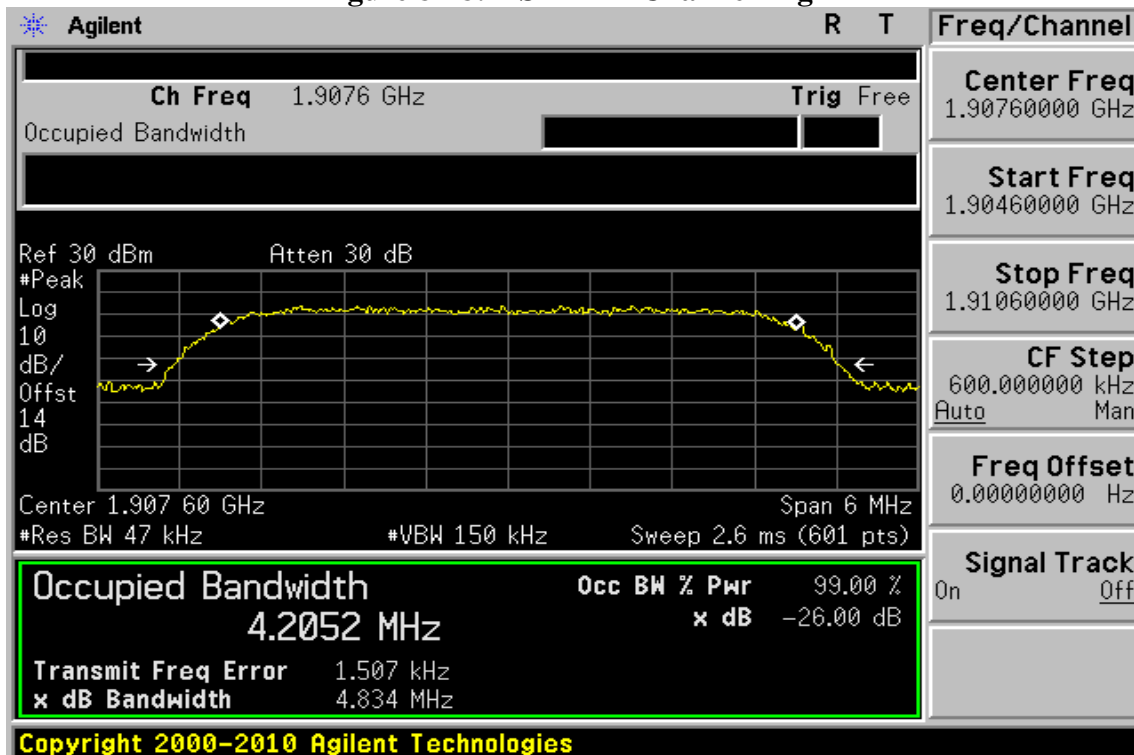
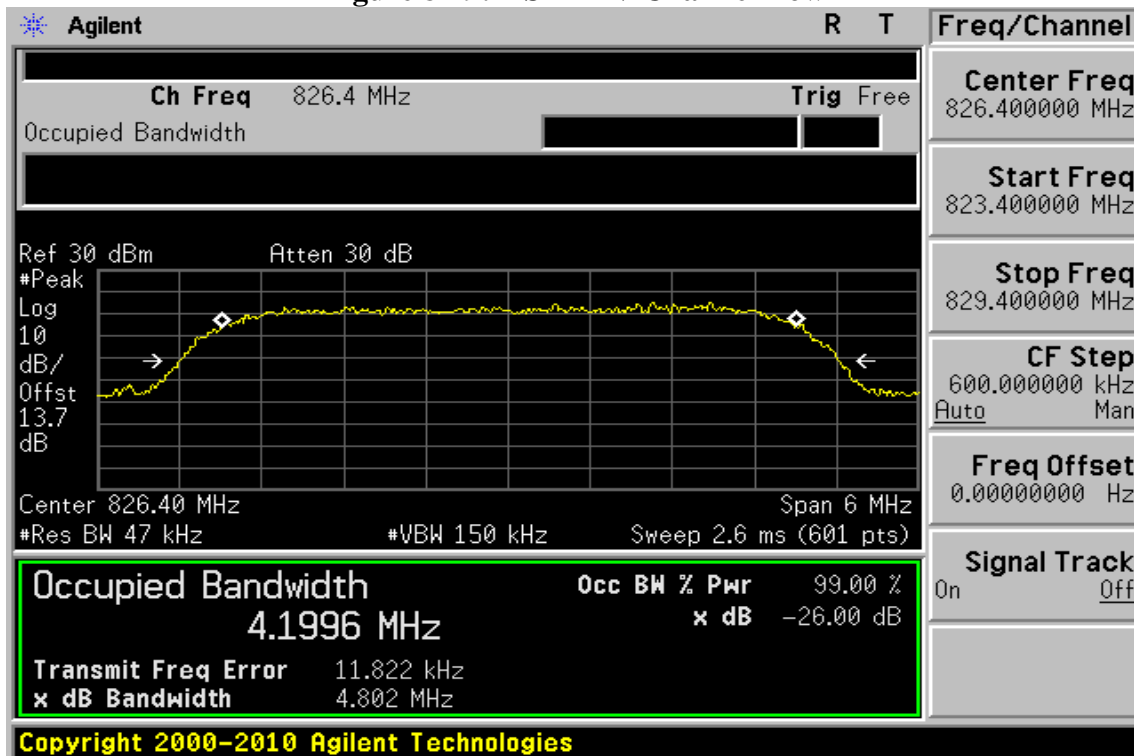


Figure 8-29: HSDPA V Channel Low



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Figure 8-30: HSDPA V Channel Mid

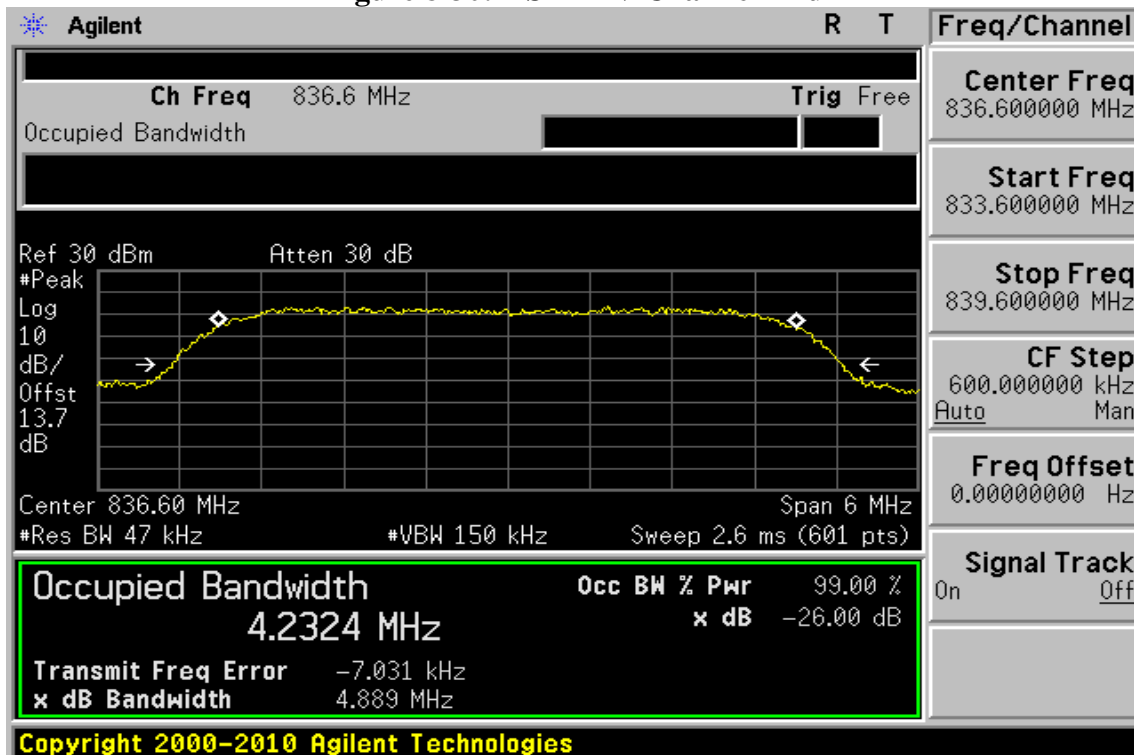
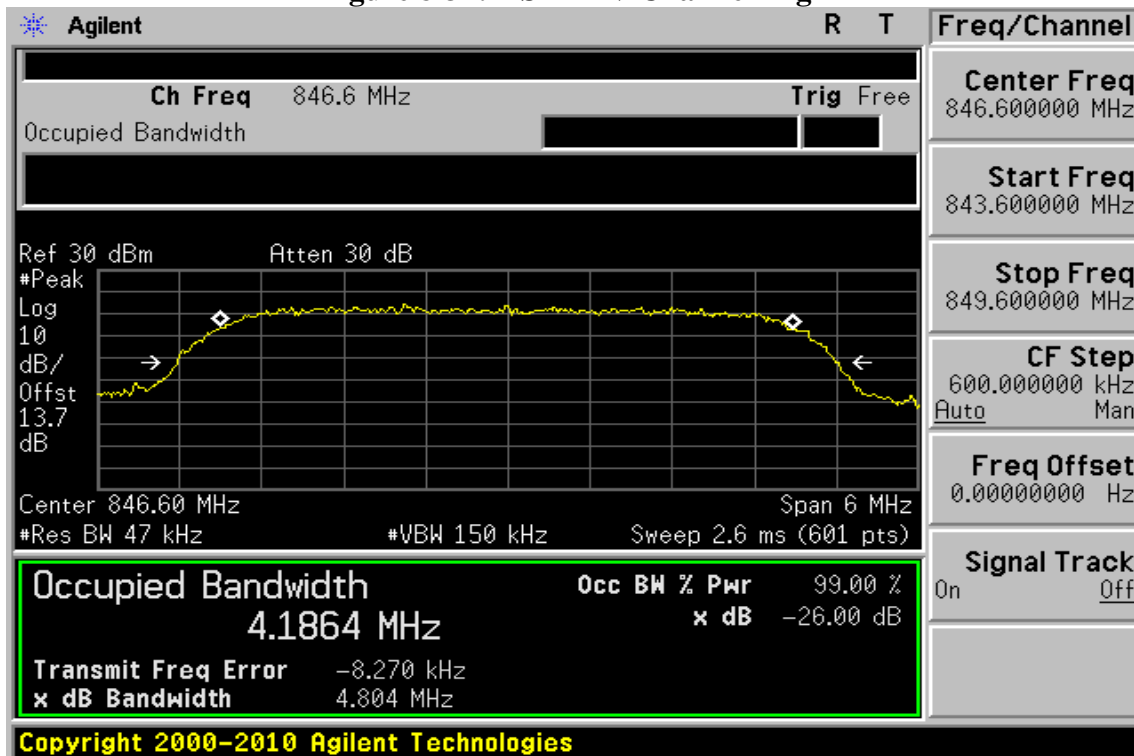


Figure 8-31: HSDPA V Channel High



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Figure 8-32: HSUPA II Channel Low

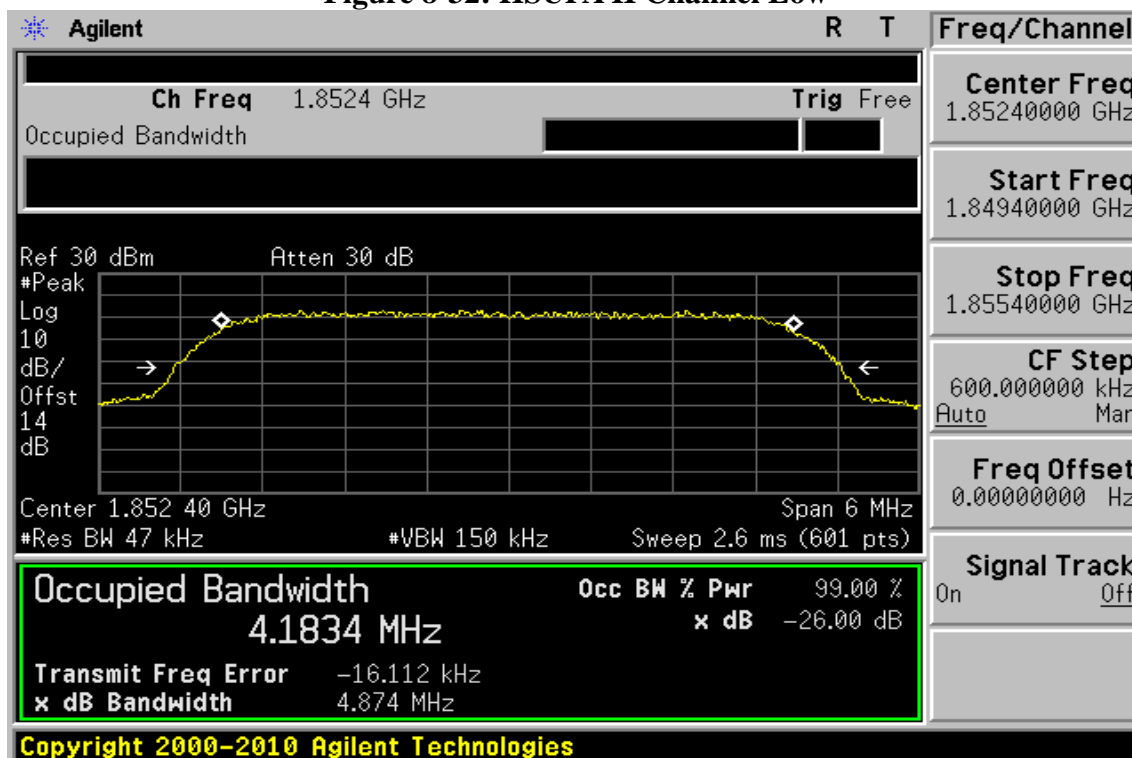
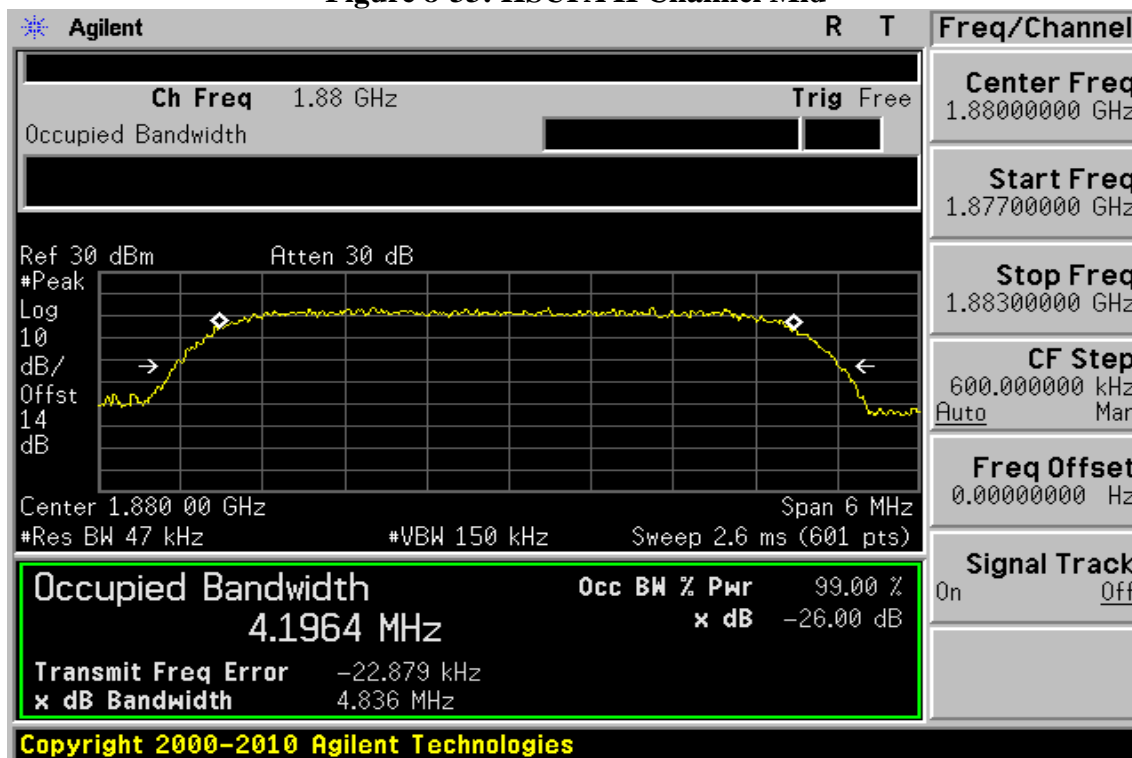


Figure 8-33: HSUPA II Channel Mid



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Figure 8-34: HSUPA II Channel High

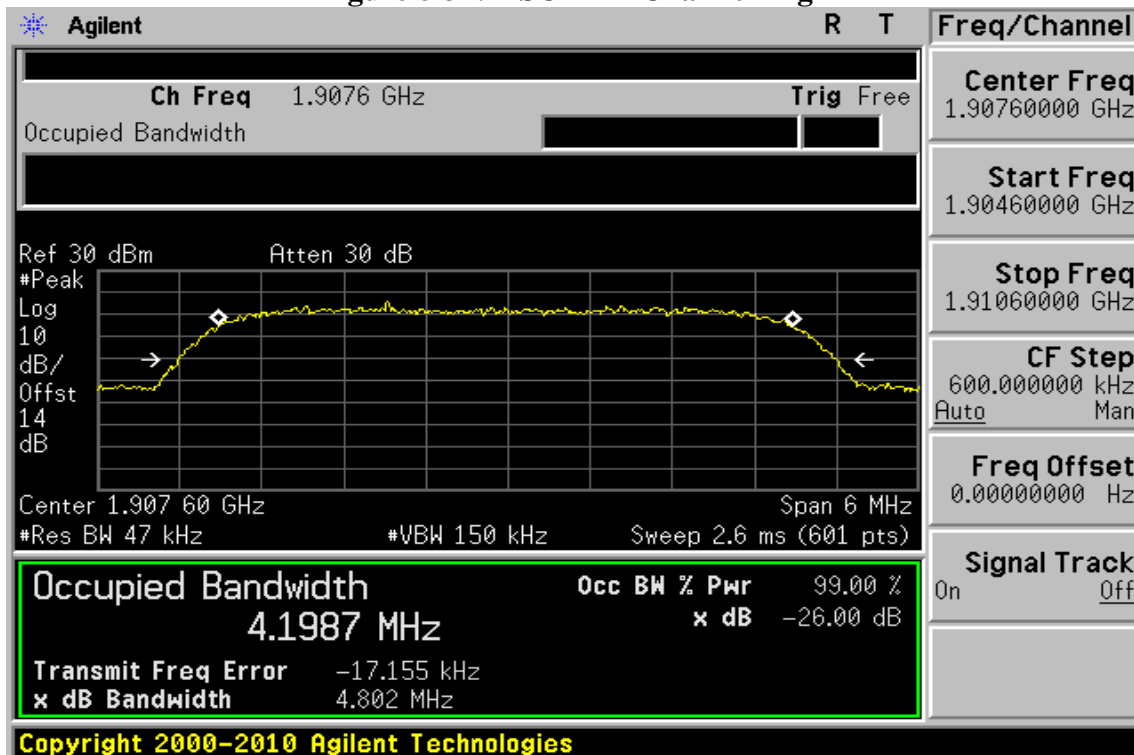
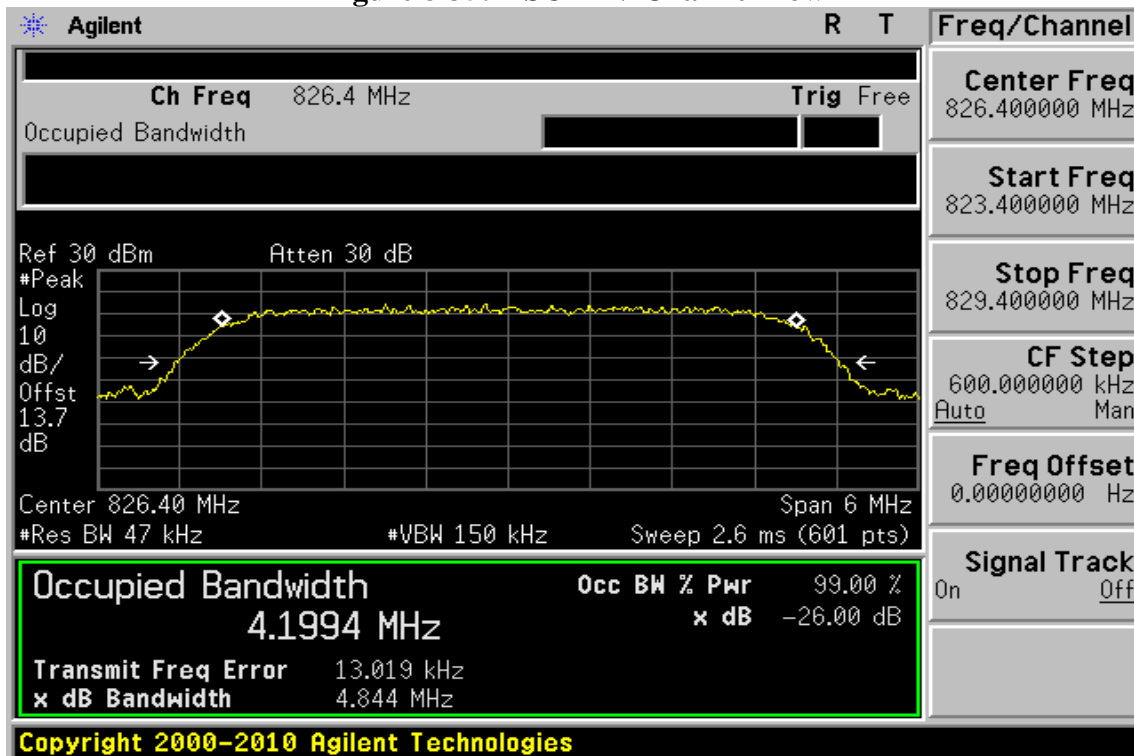


Figure 8-35: HSUPA V Channel Low



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Figure 8-36: HSUPA V Channel Mid

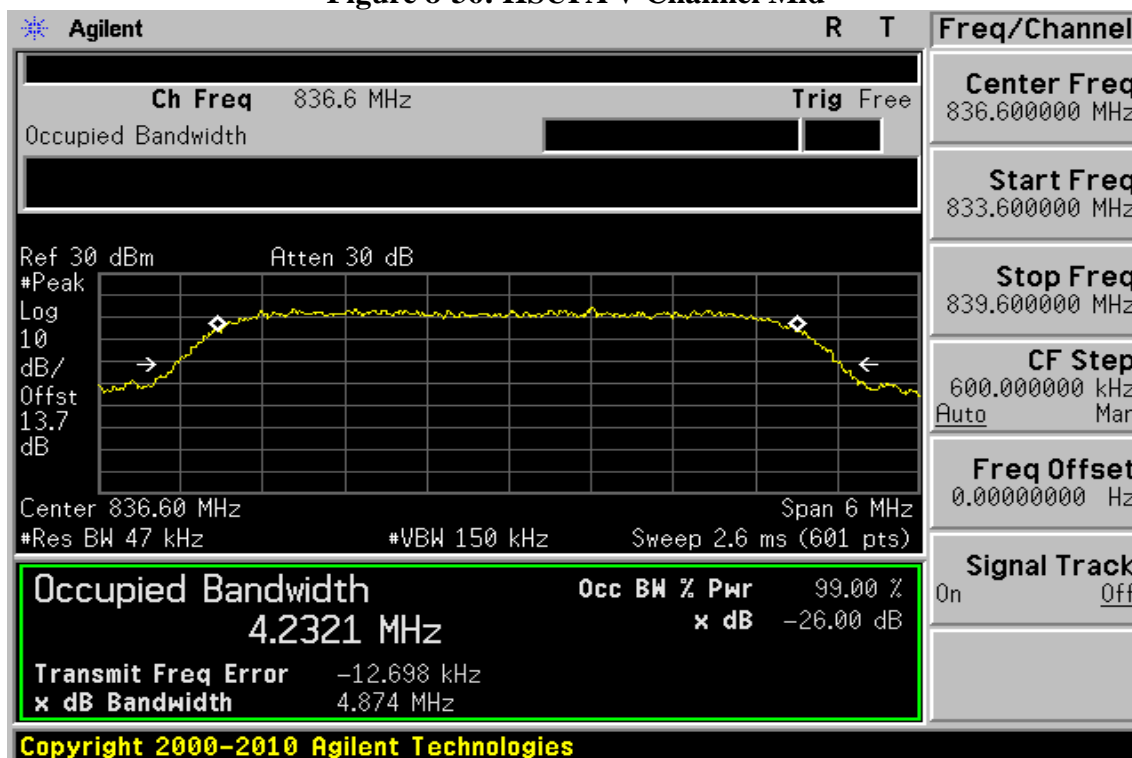
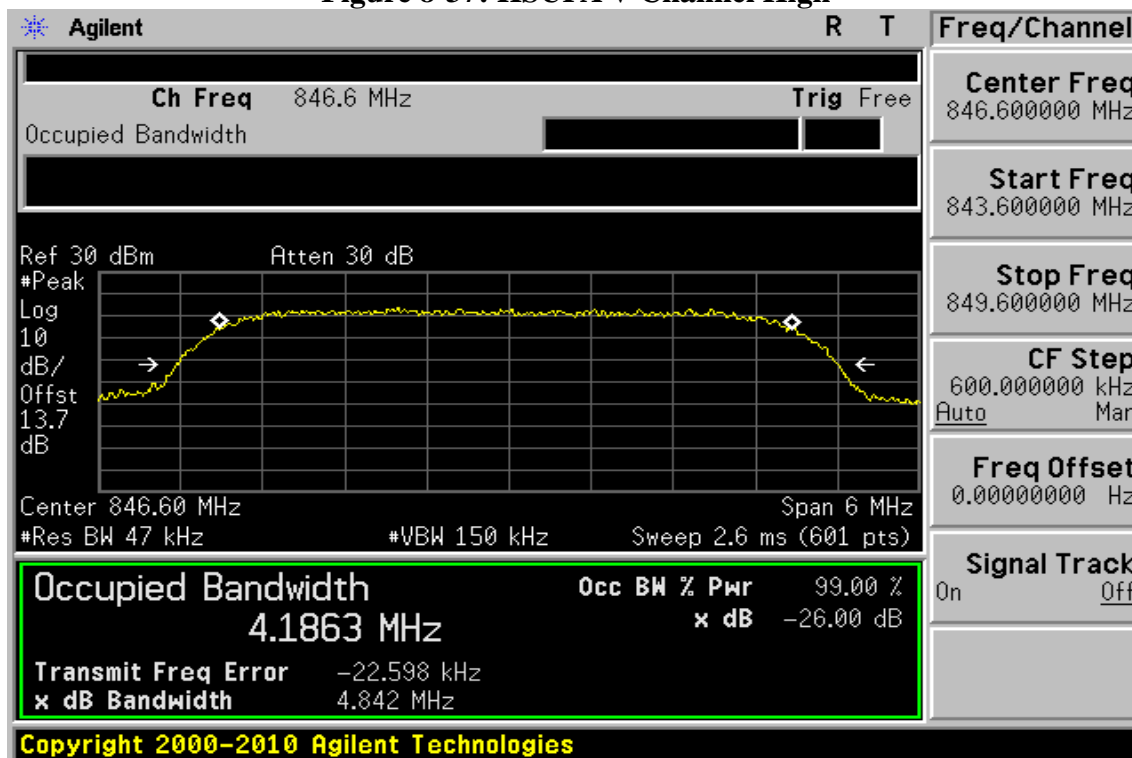


Figure 8-37: HSUPA V Channel High



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Figure 8-38: 1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel Low

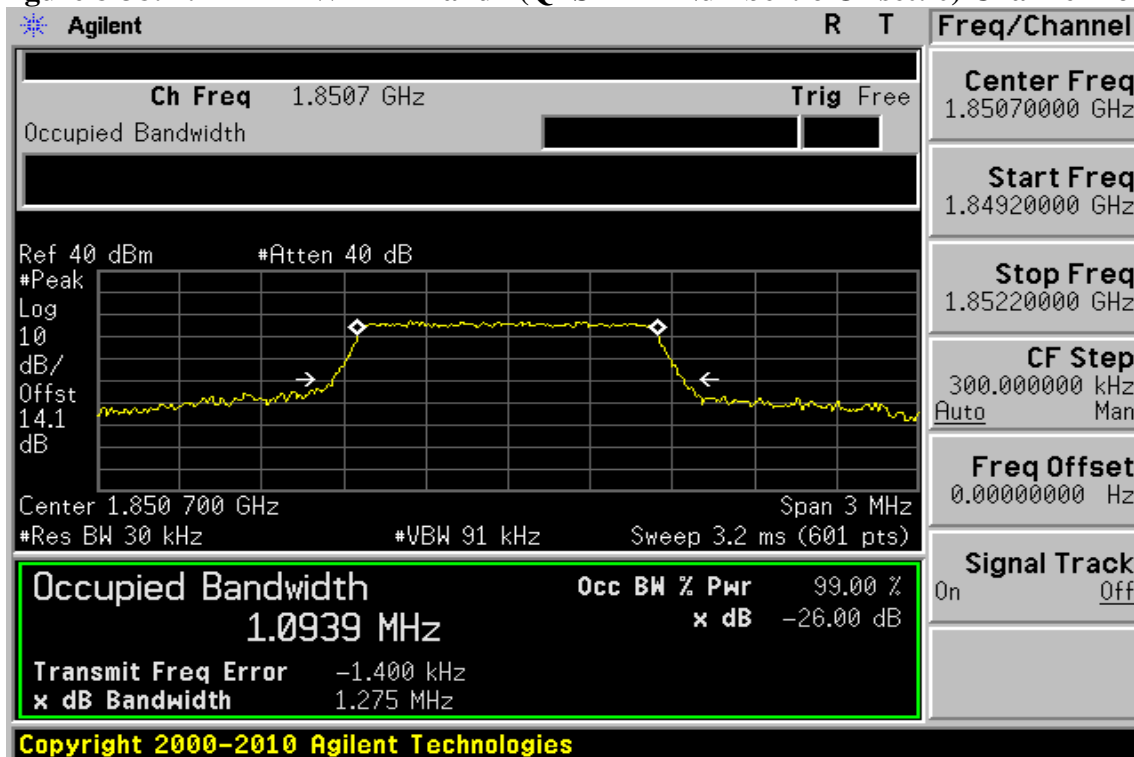
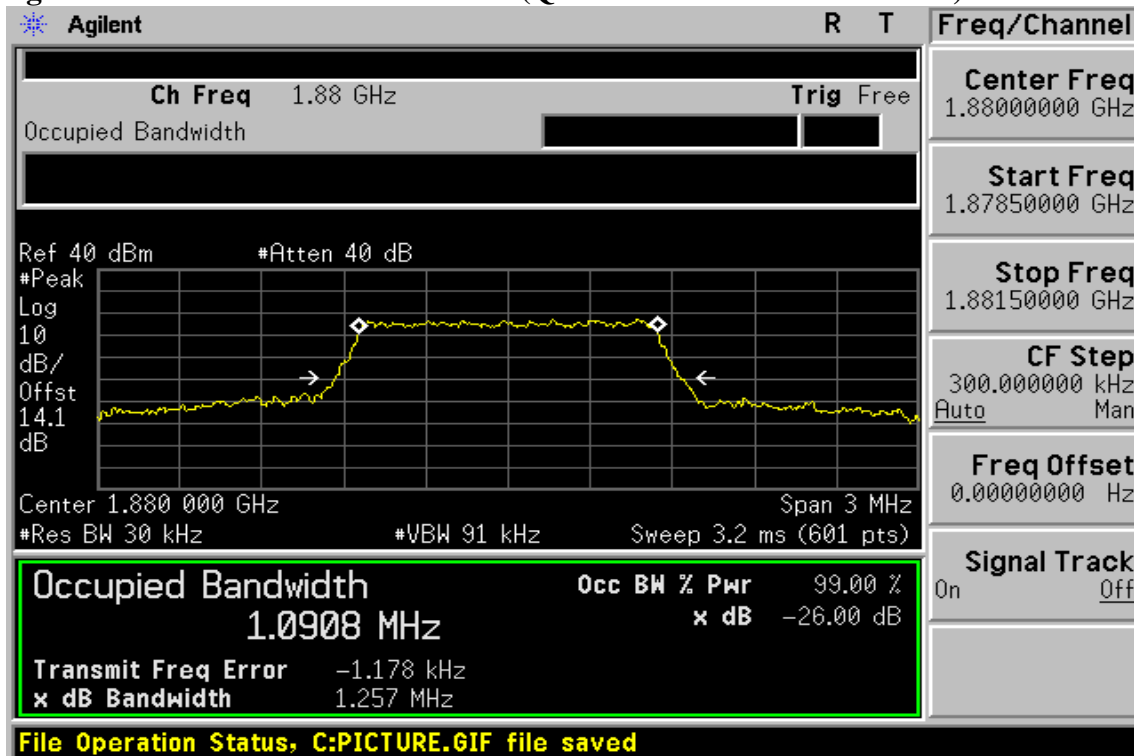


Figure 8-39: 1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel Mid



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Figure 8-40: 1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel High

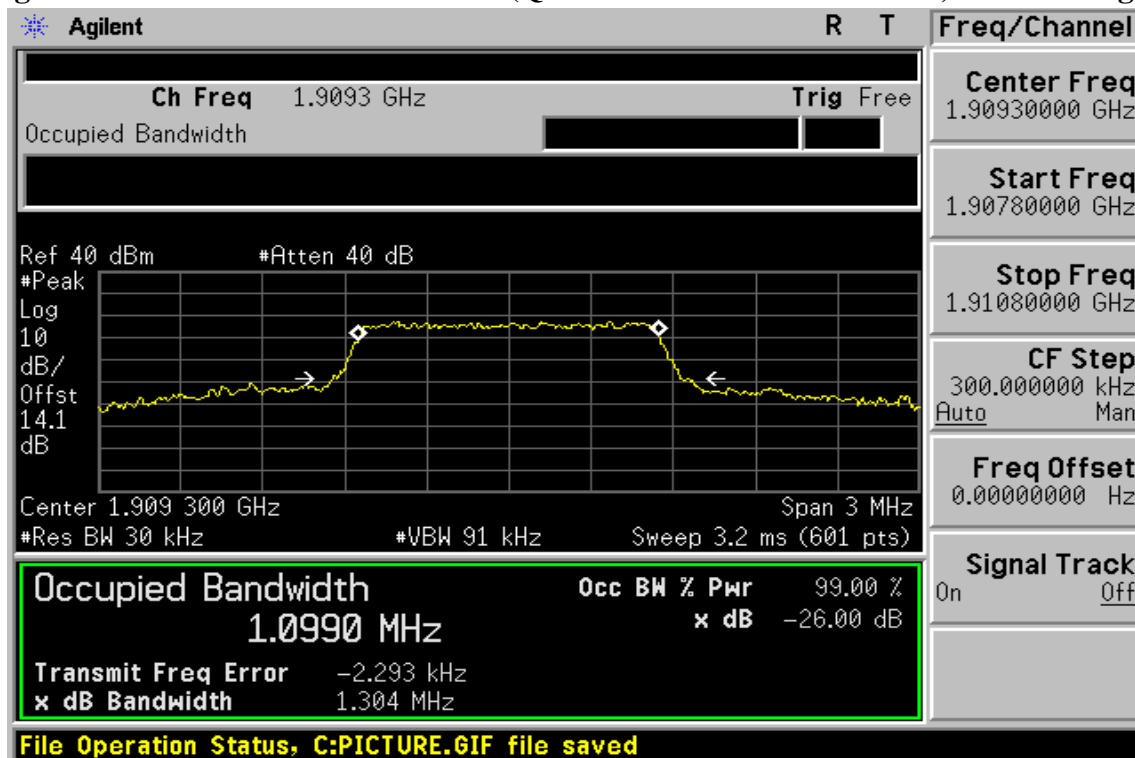
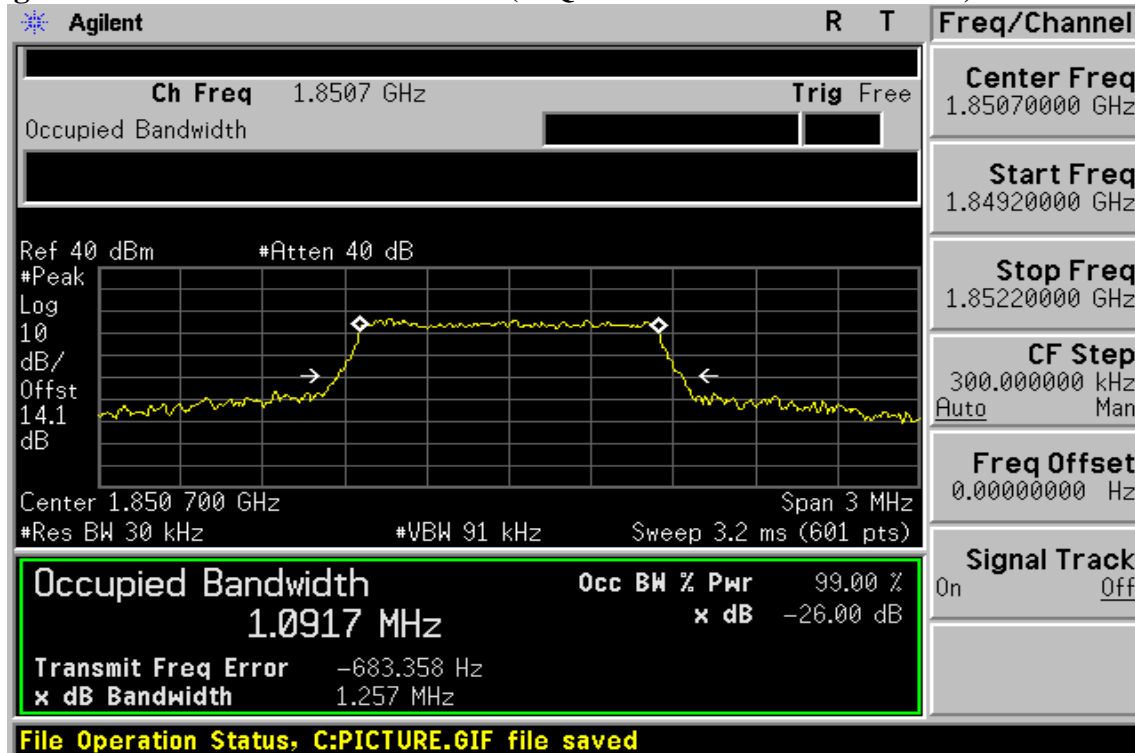


Figure 8-41: 1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel Low



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Figure 8-42: 1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel Mid

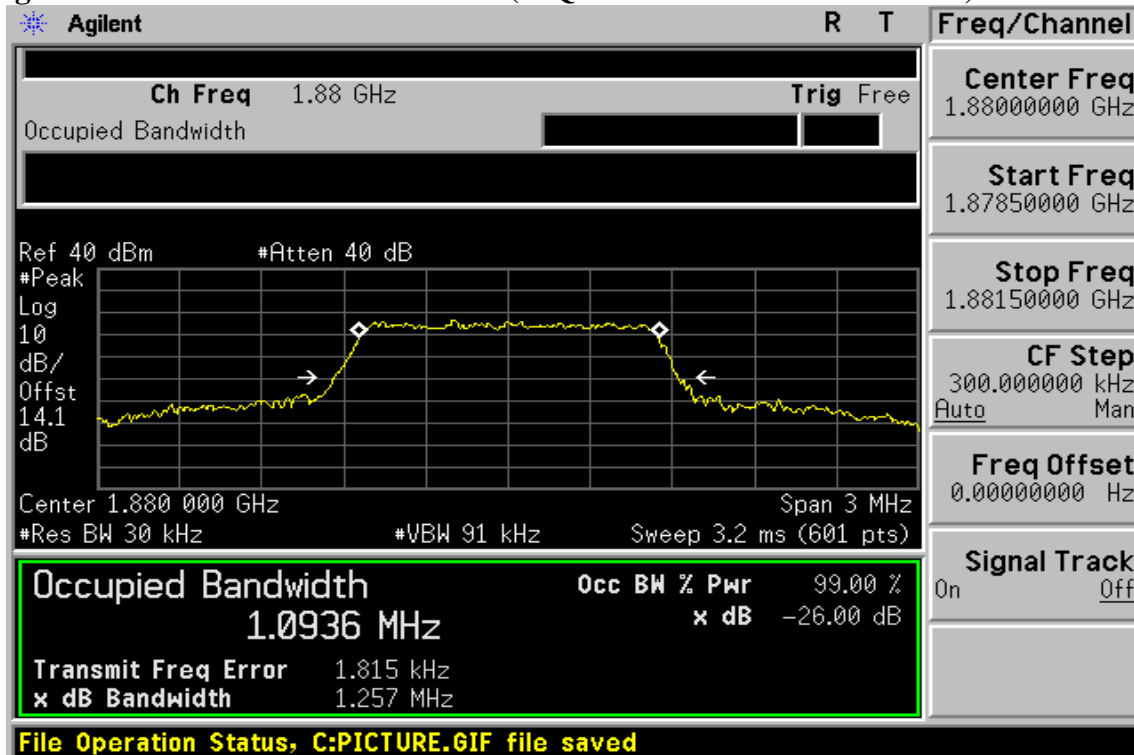
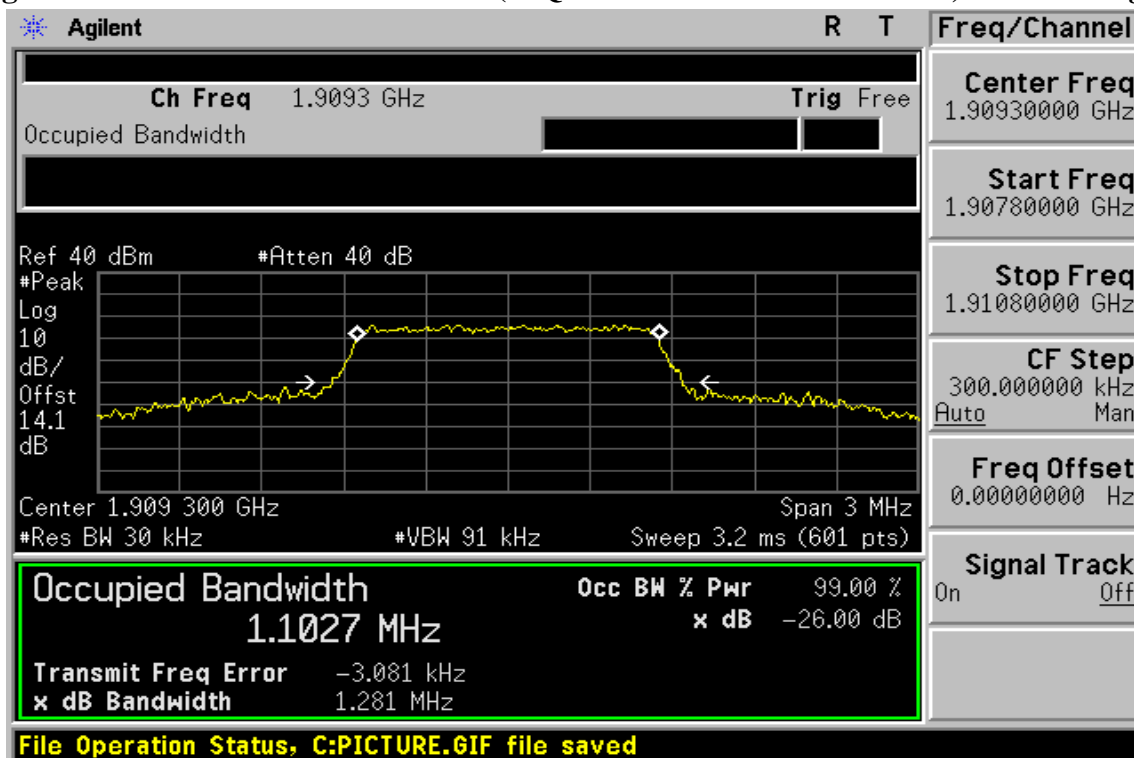


Figure 8-43: 1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel High



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Figure 8-44: 3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel Low

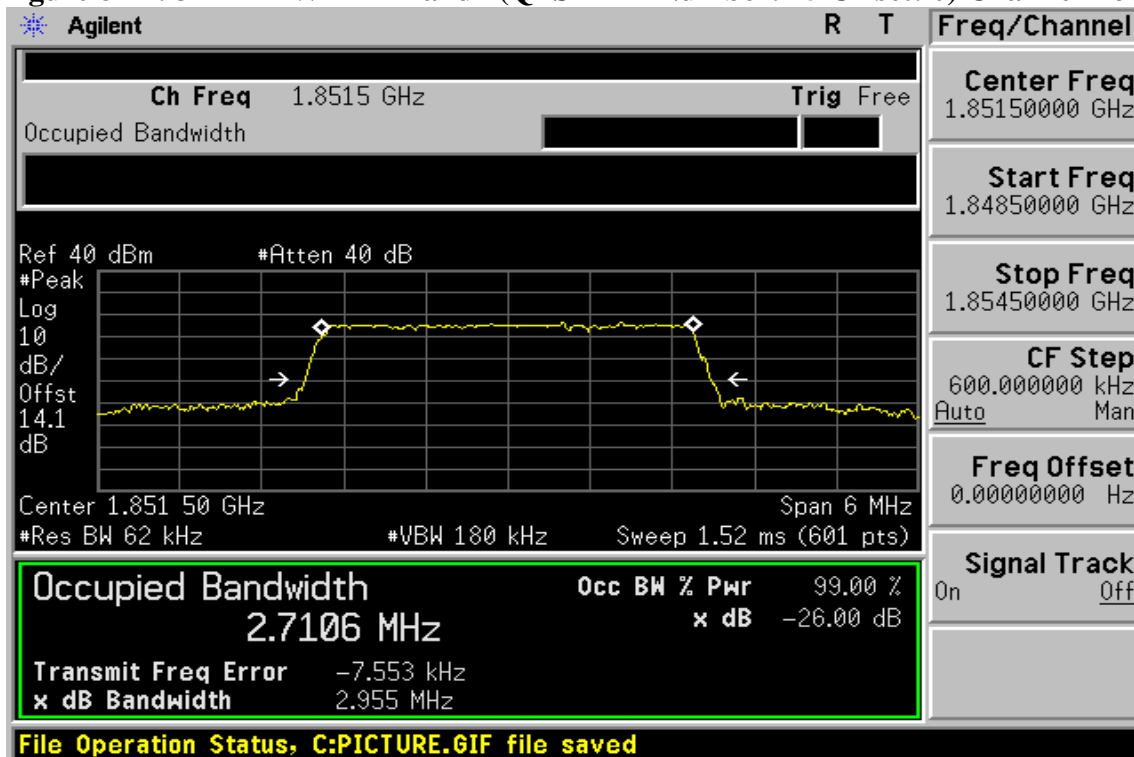
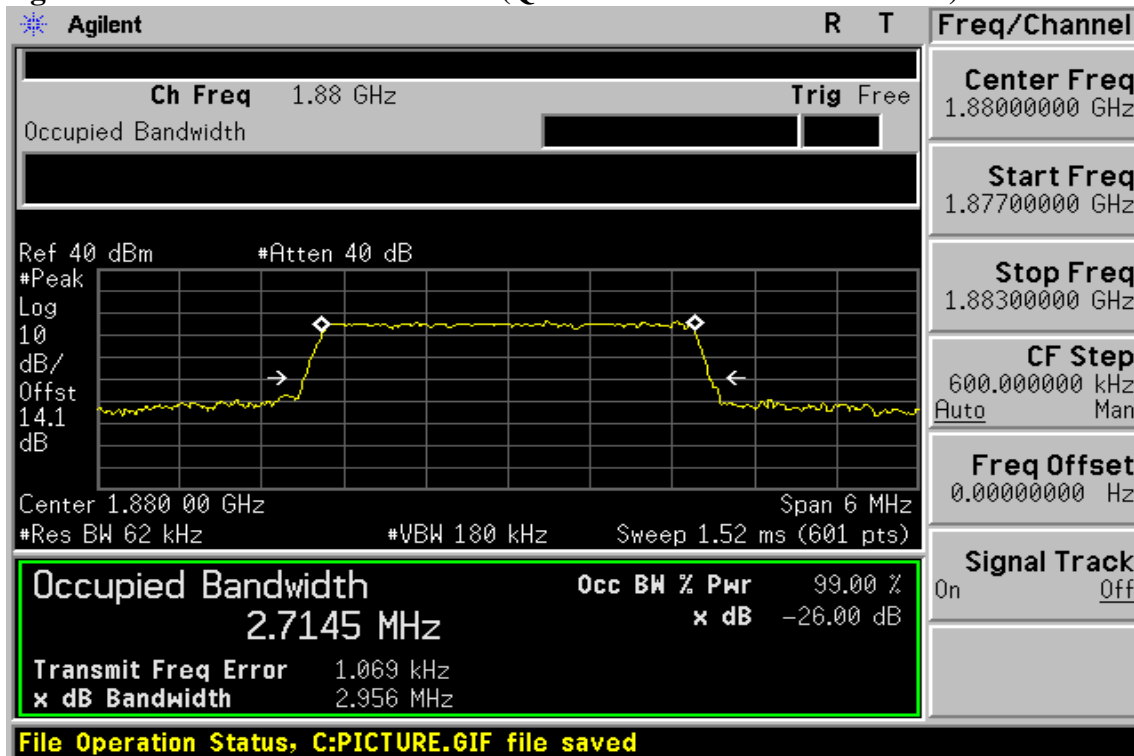


Figure 8-45: 3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel Mid



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Figure 8-46: 3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel High

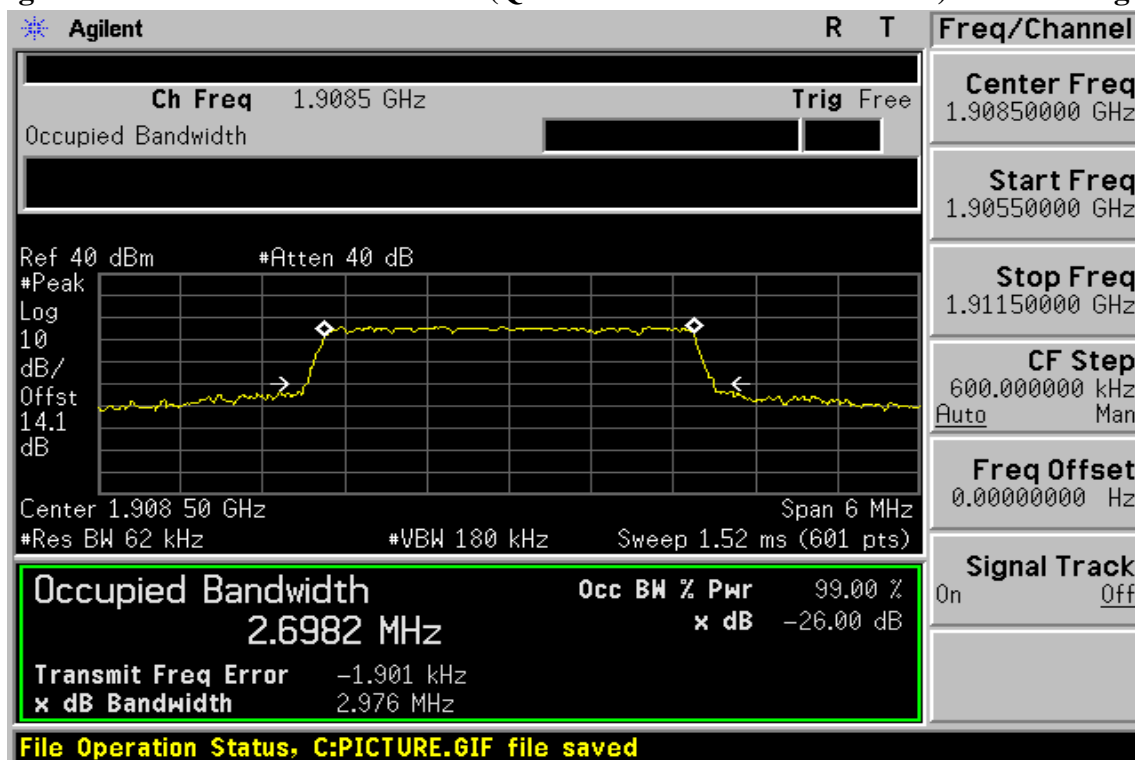
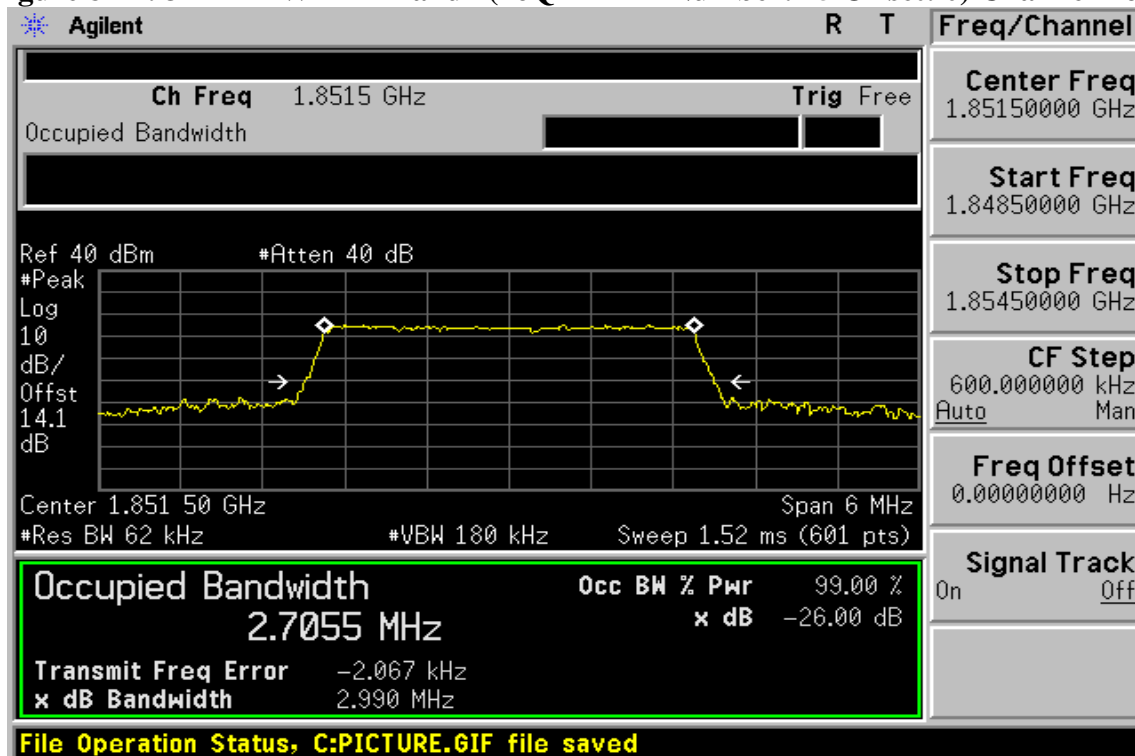


Figure 8-47: 3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel Low



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Figure 8-48: 3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel Mid

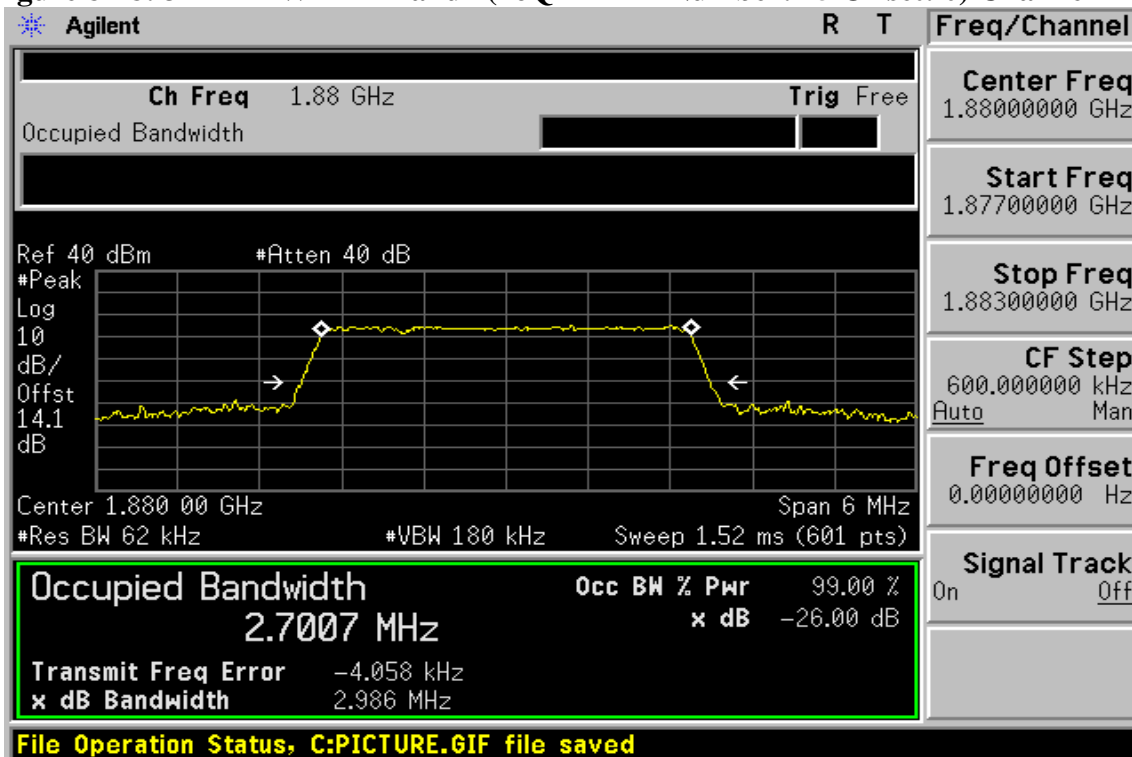
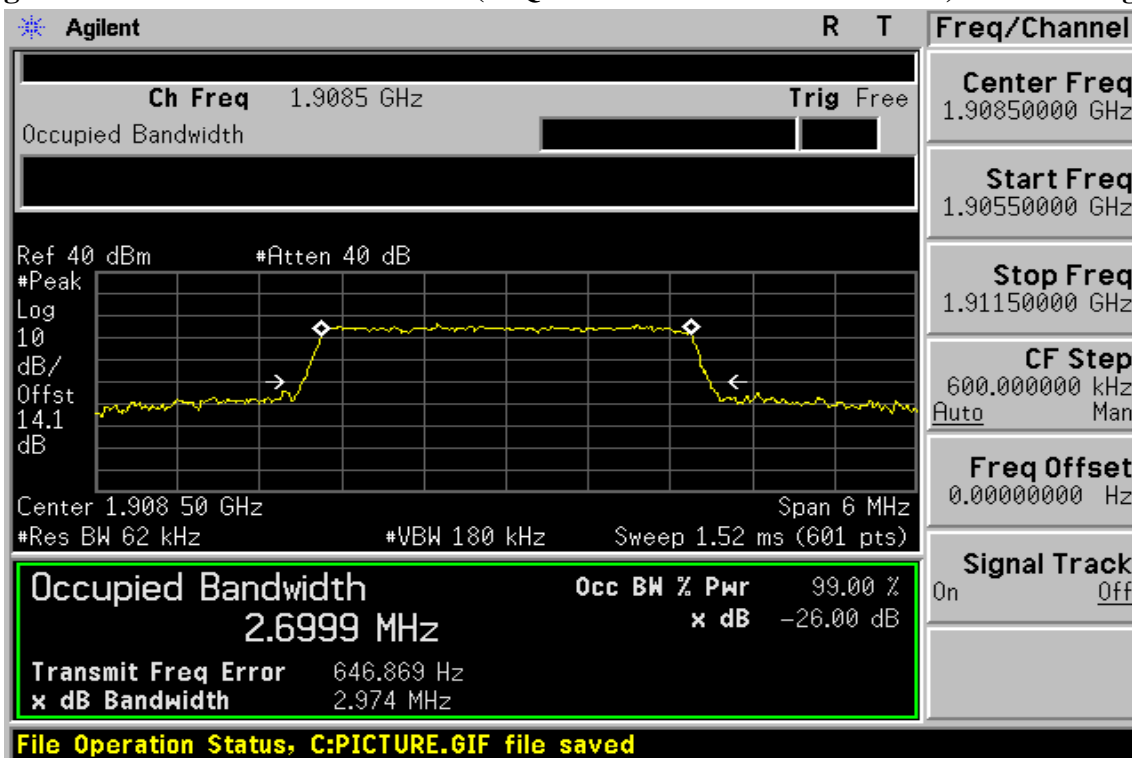


Figure 8-49: 3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel High



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Figure 8-50: 5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel Low

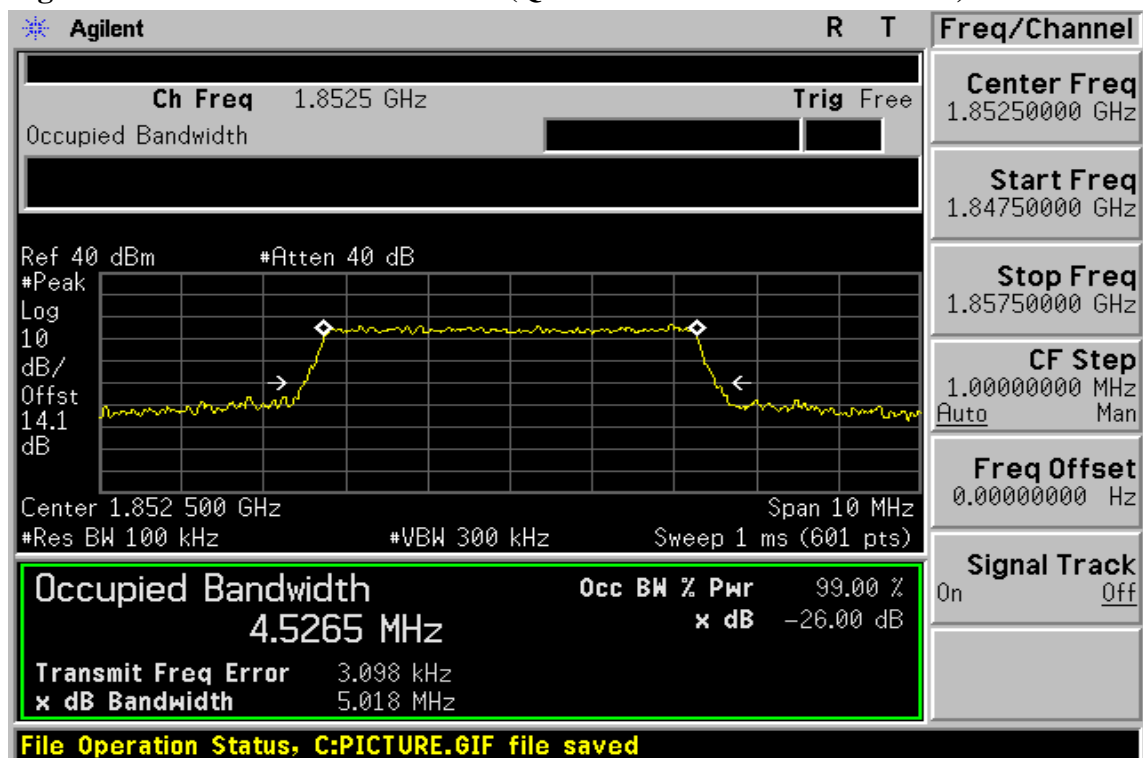
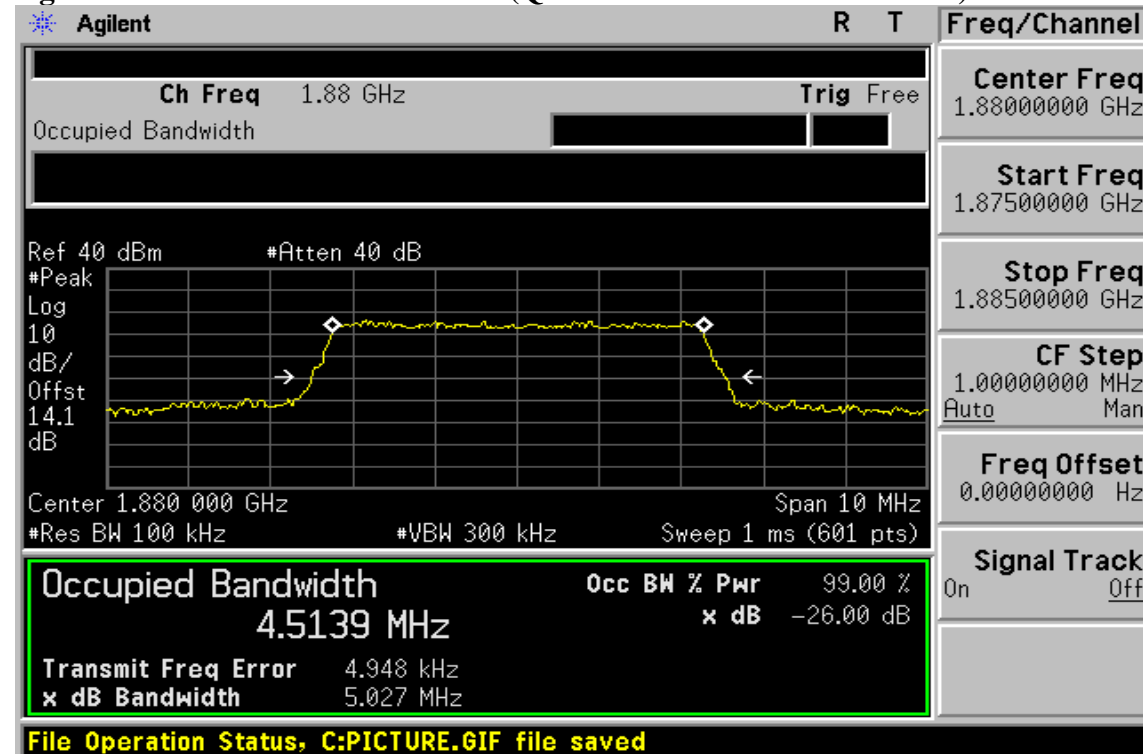


Figure 8-51: 5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel Mid



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Figure 8-52: 5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel High

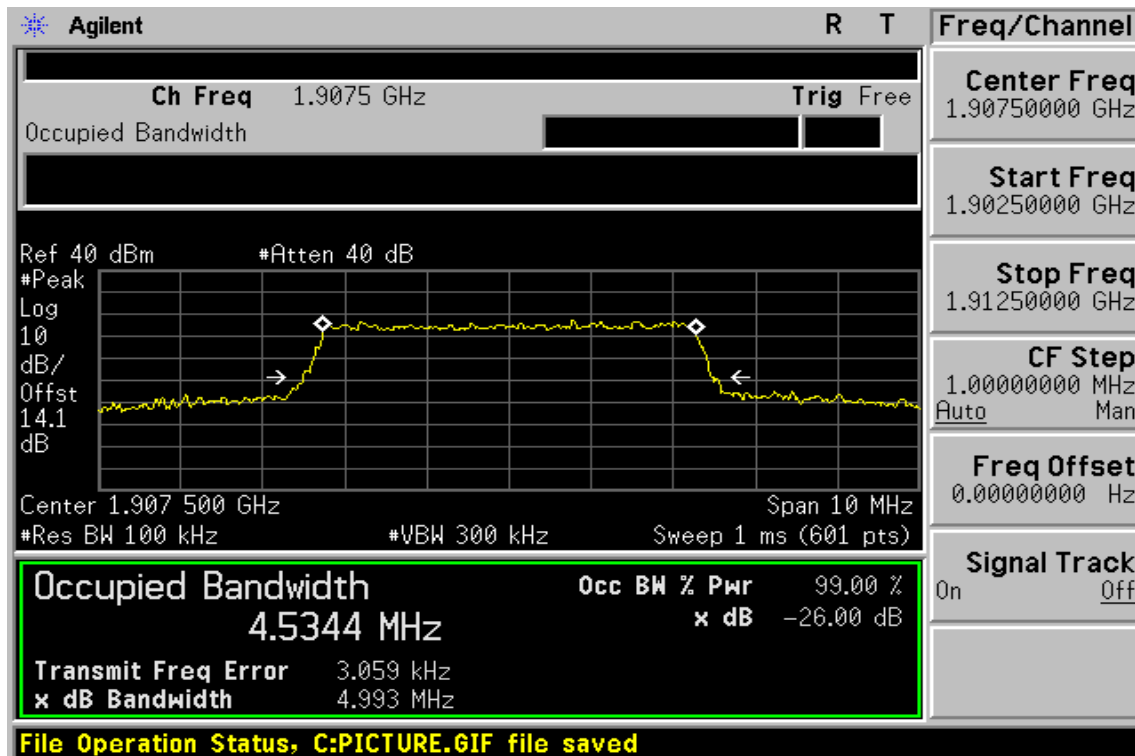
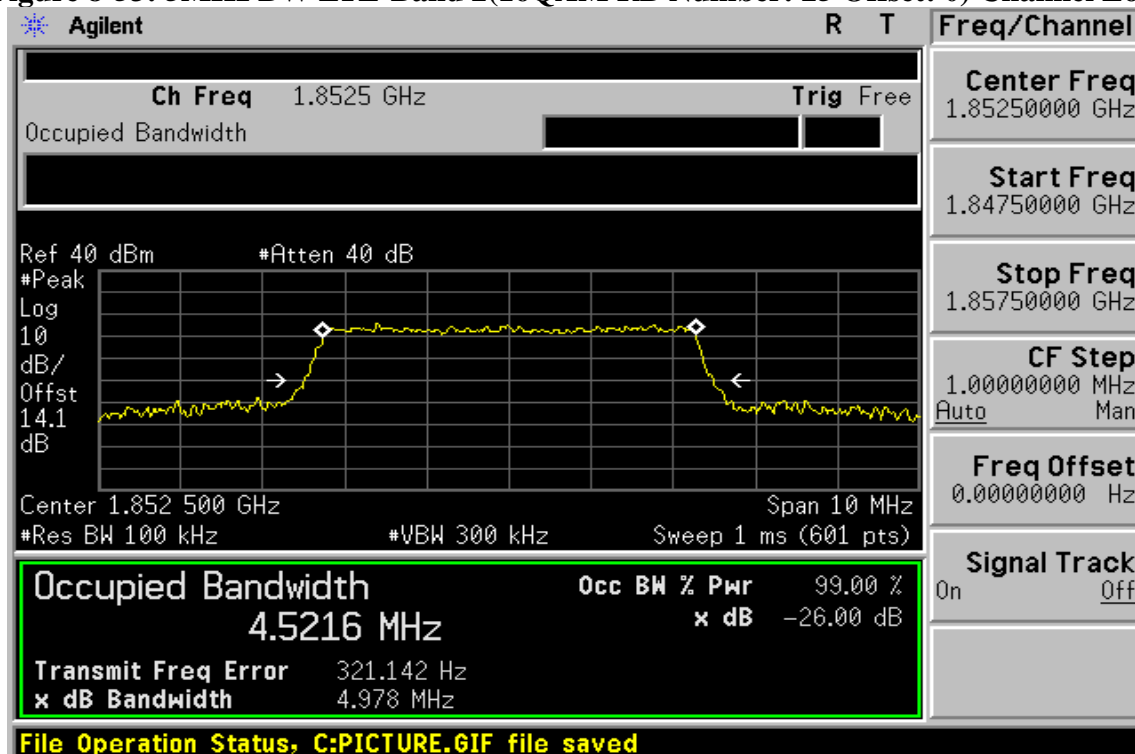


Figure 8-53: 5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel Low



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Figure 8-54: 5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel Mid

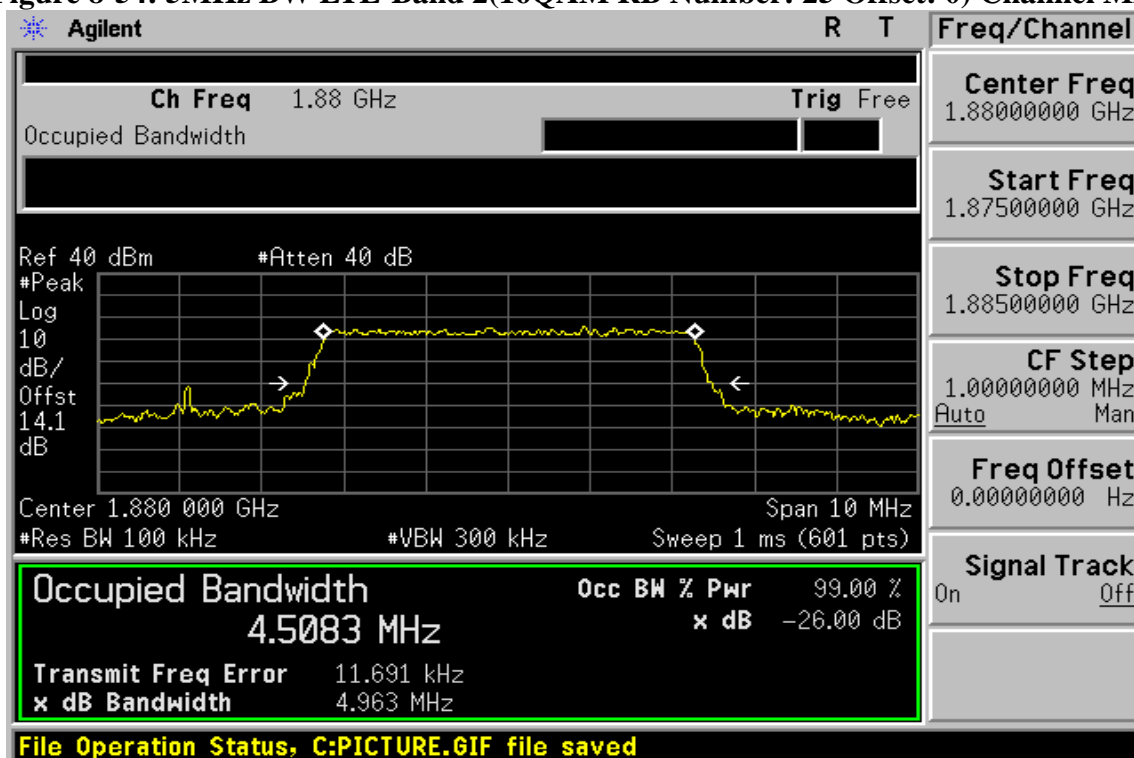
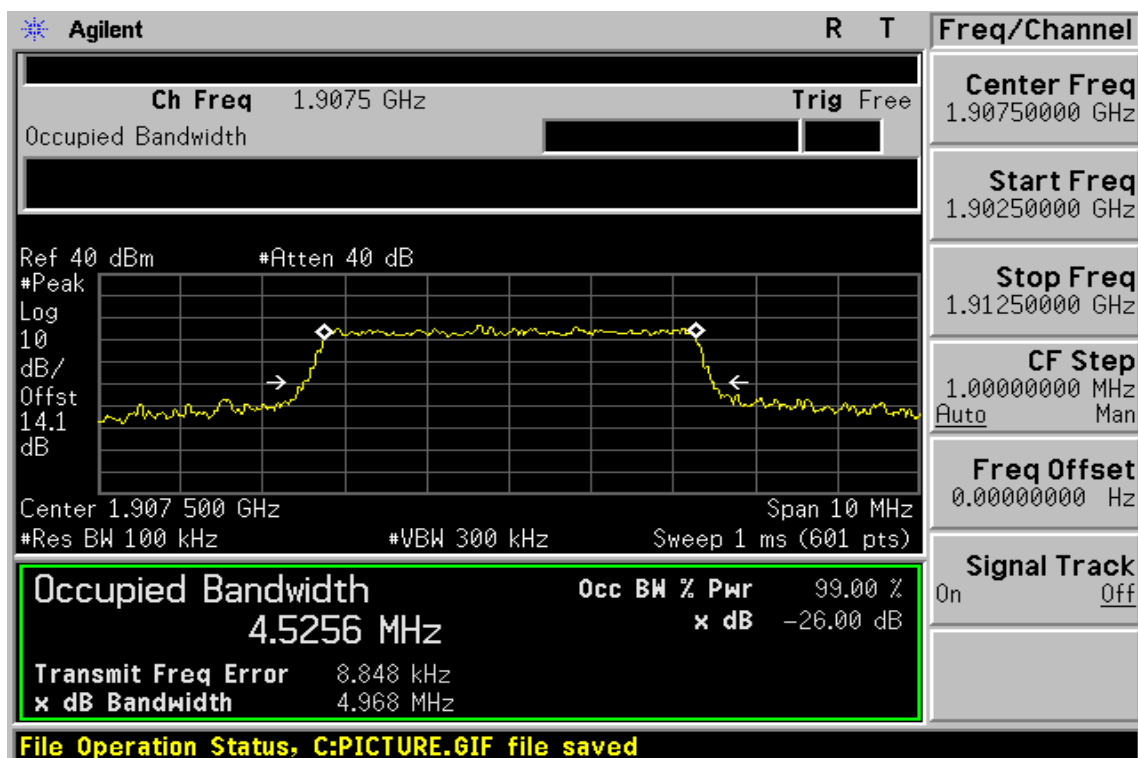


Figure 8-55: 5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel High



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Figure 8-56: 10MHz BW LTE-Band 2(QPSK RB Number: 50 Offset: 0) Channel Low

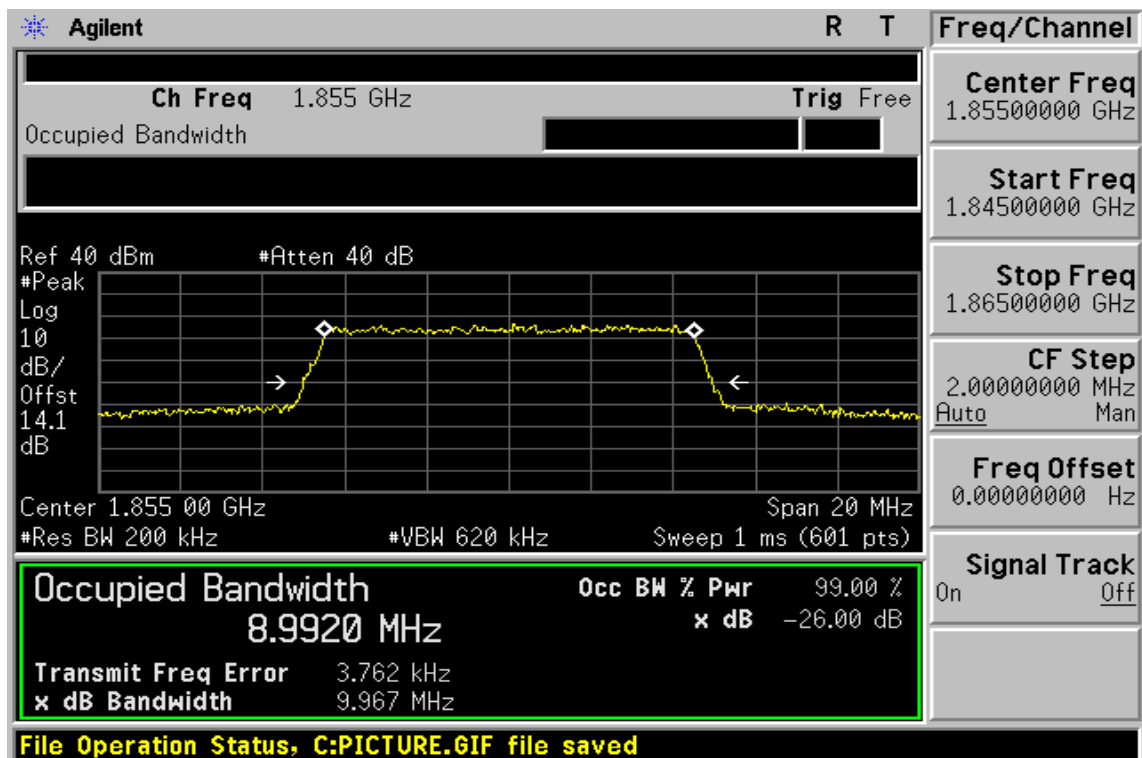
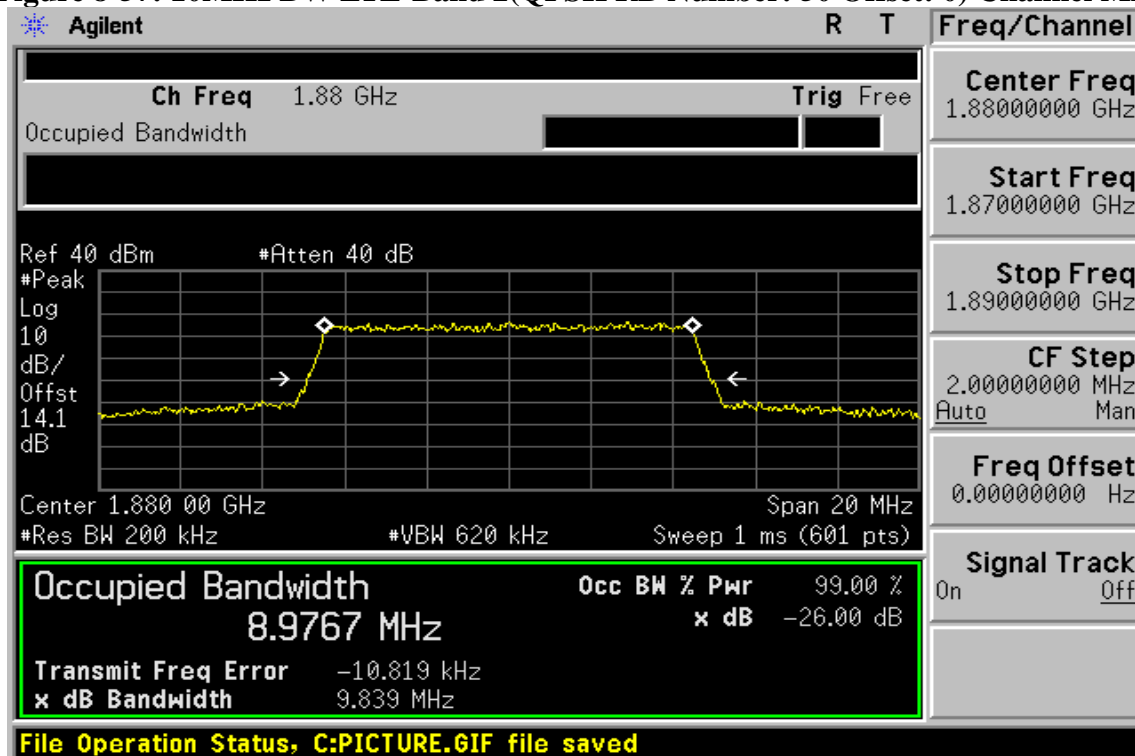


Figure 8-57: 10MHz BW LTE-Band 2(QPSK RB Number: 50 Offset: 0) Channel Mid



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Figure 8-58: 10MHz BW LTE-Band 2(QPSK RB Number: 50 Offset: 0) Channel High

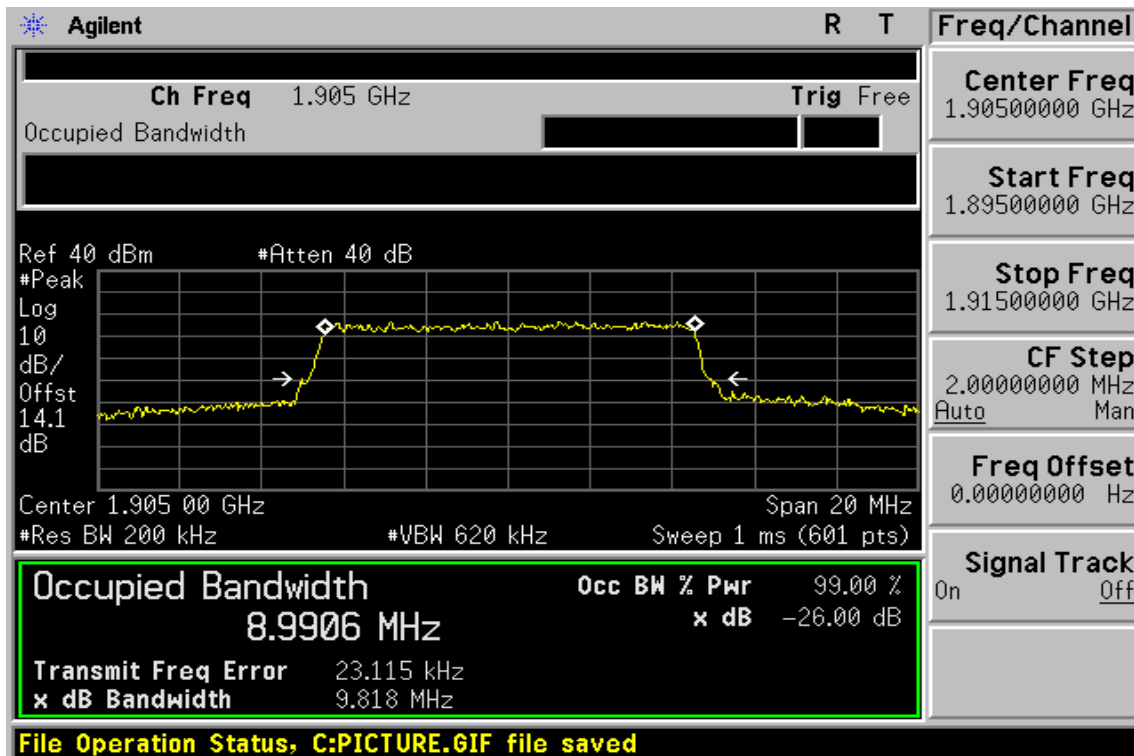
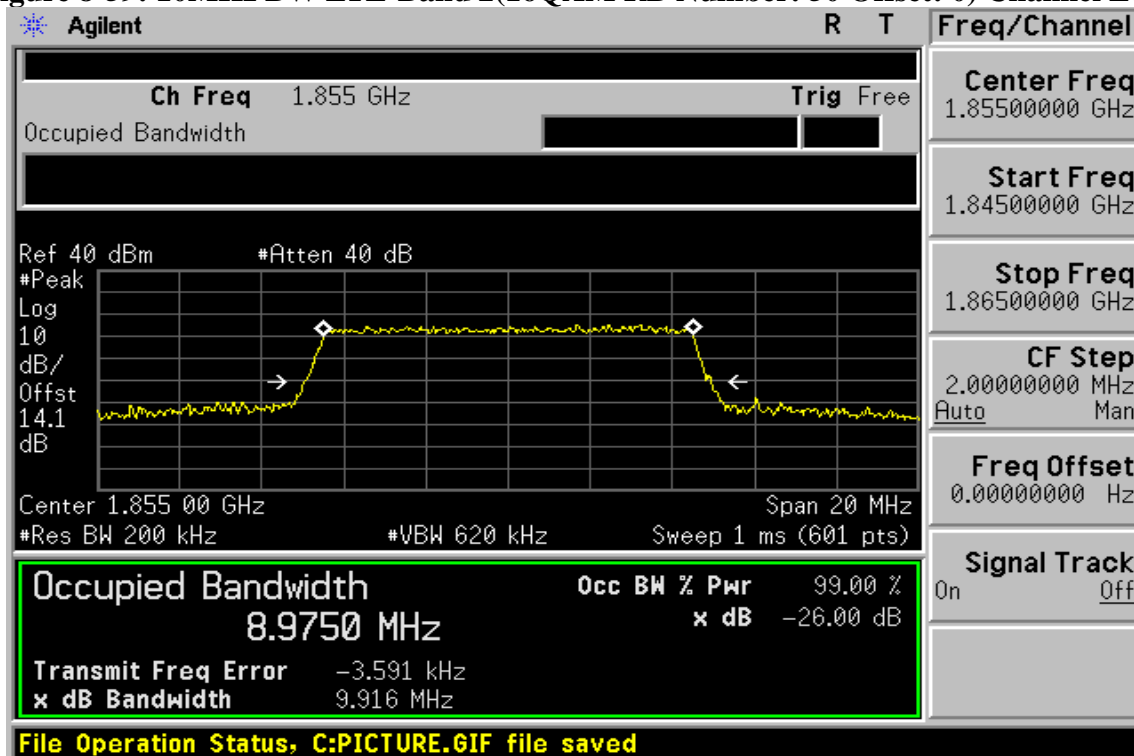


Figure 8-59: 10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel Low



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Figure 8-60: 10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel Mid

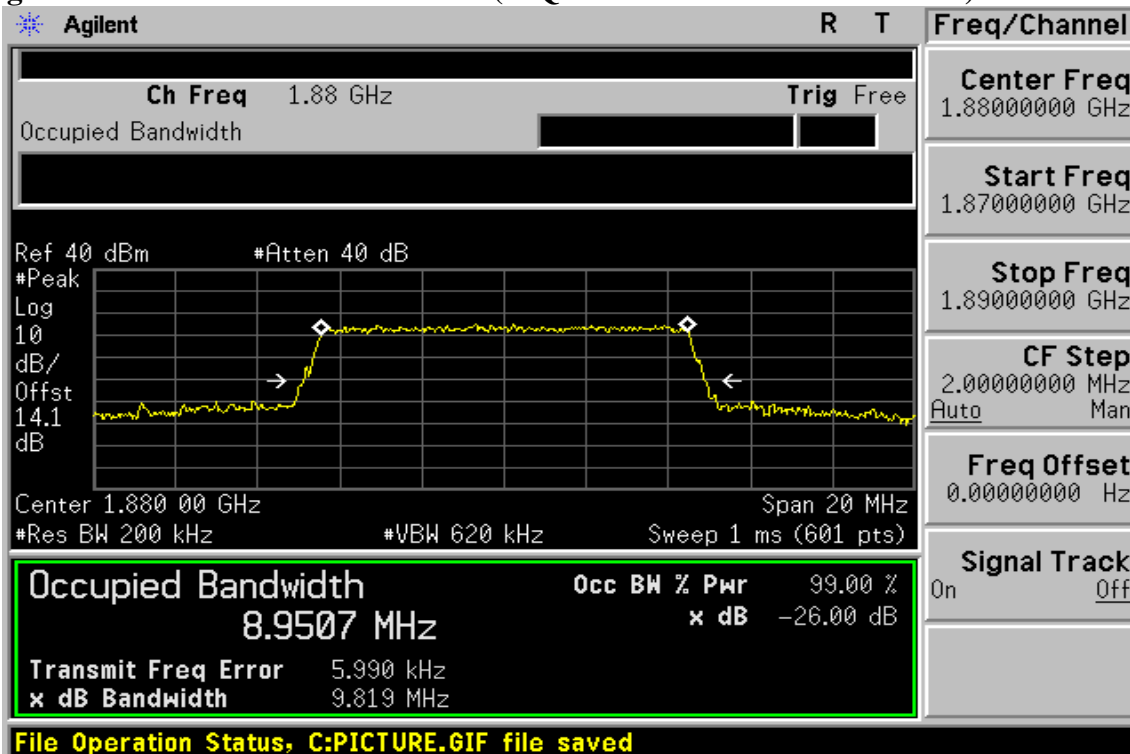
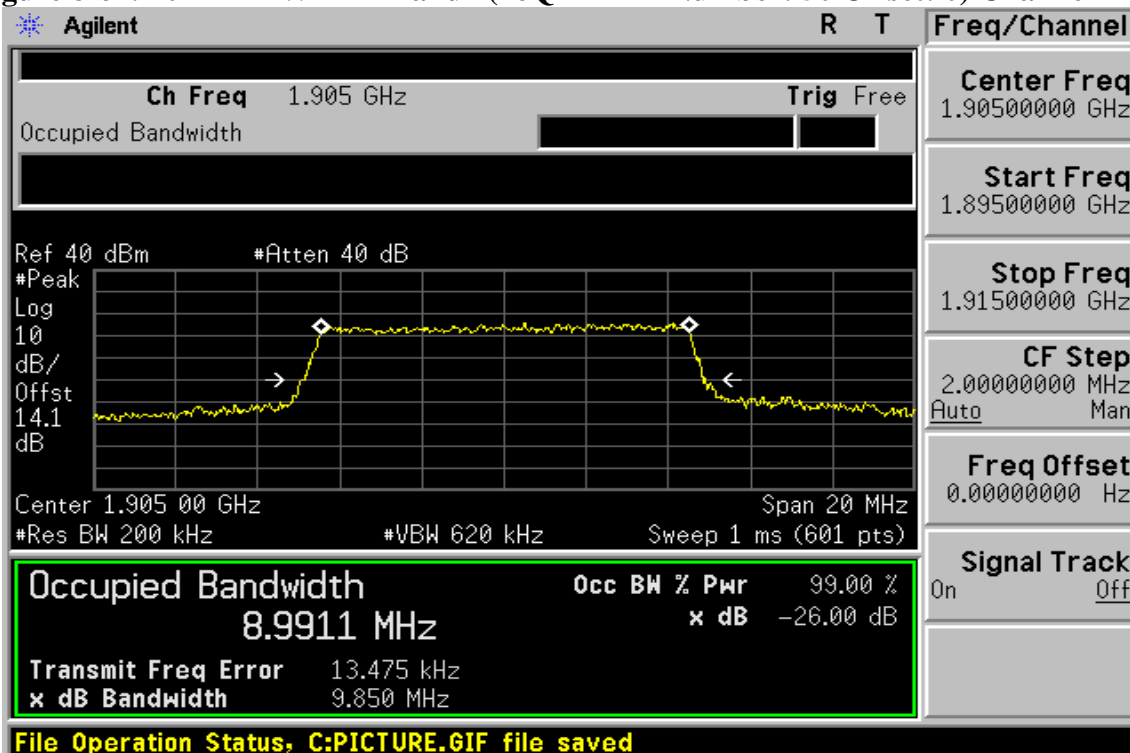


Figure 8-61: 10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel High



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Figure 8-62: 15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel Low

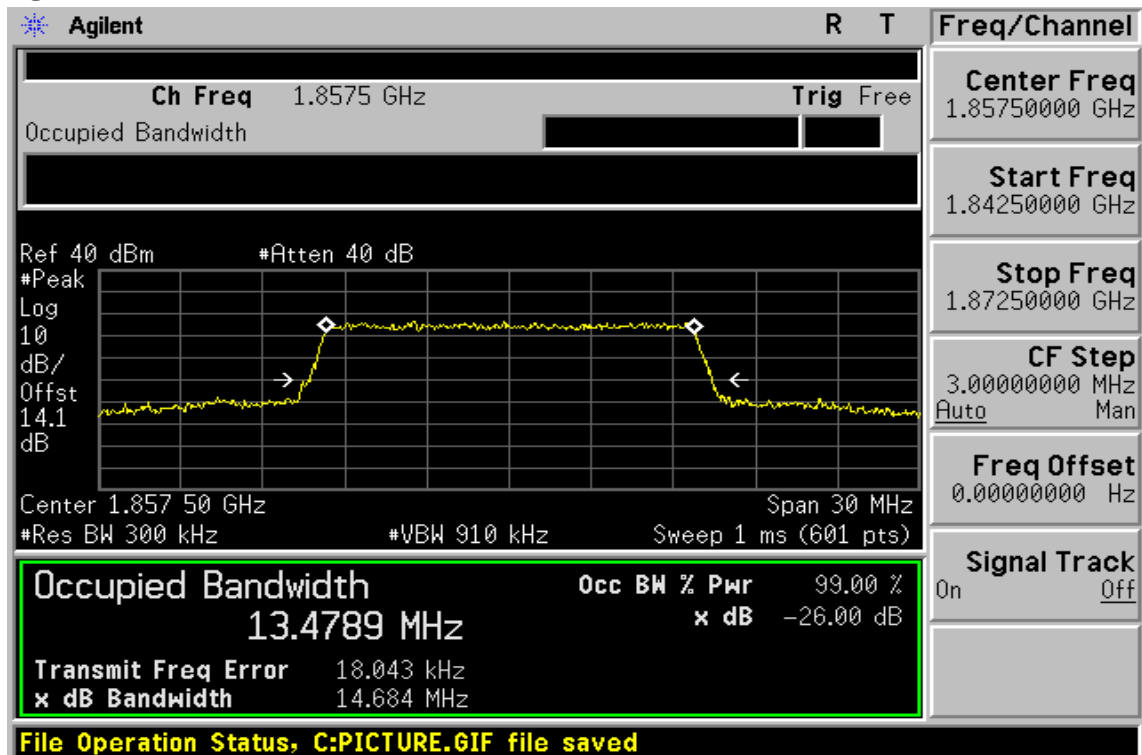
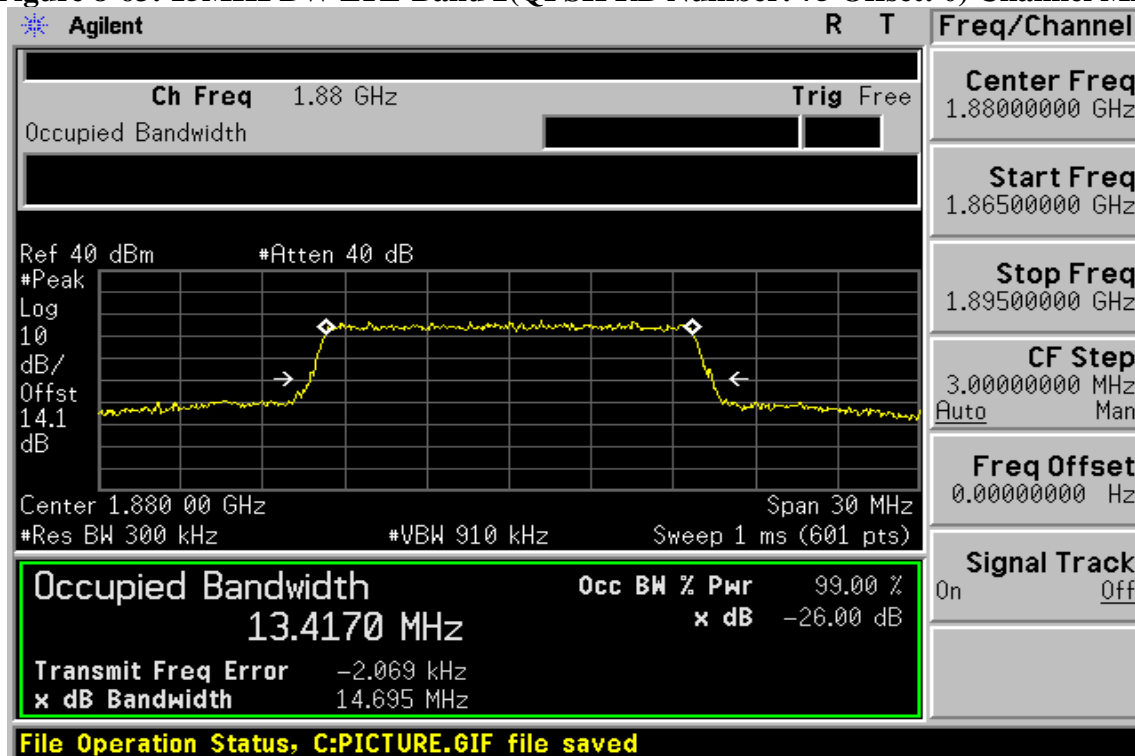


Figure 8-63: 15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel Mid



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Figure 8-64: 15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel High

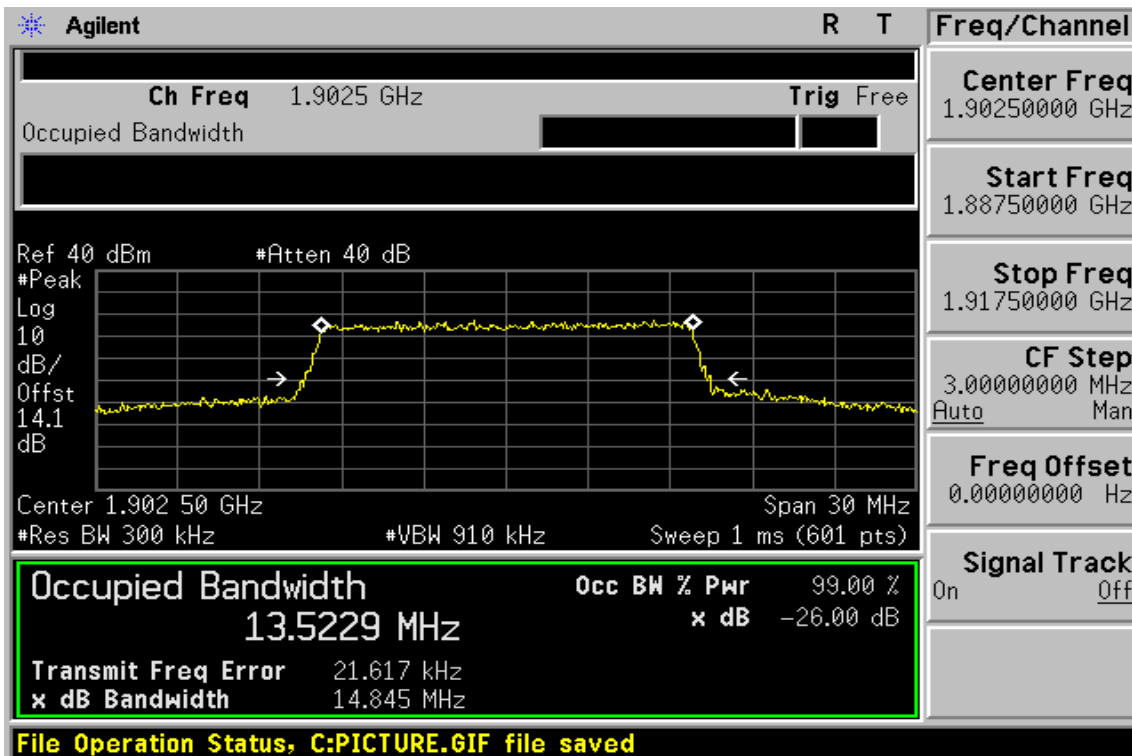
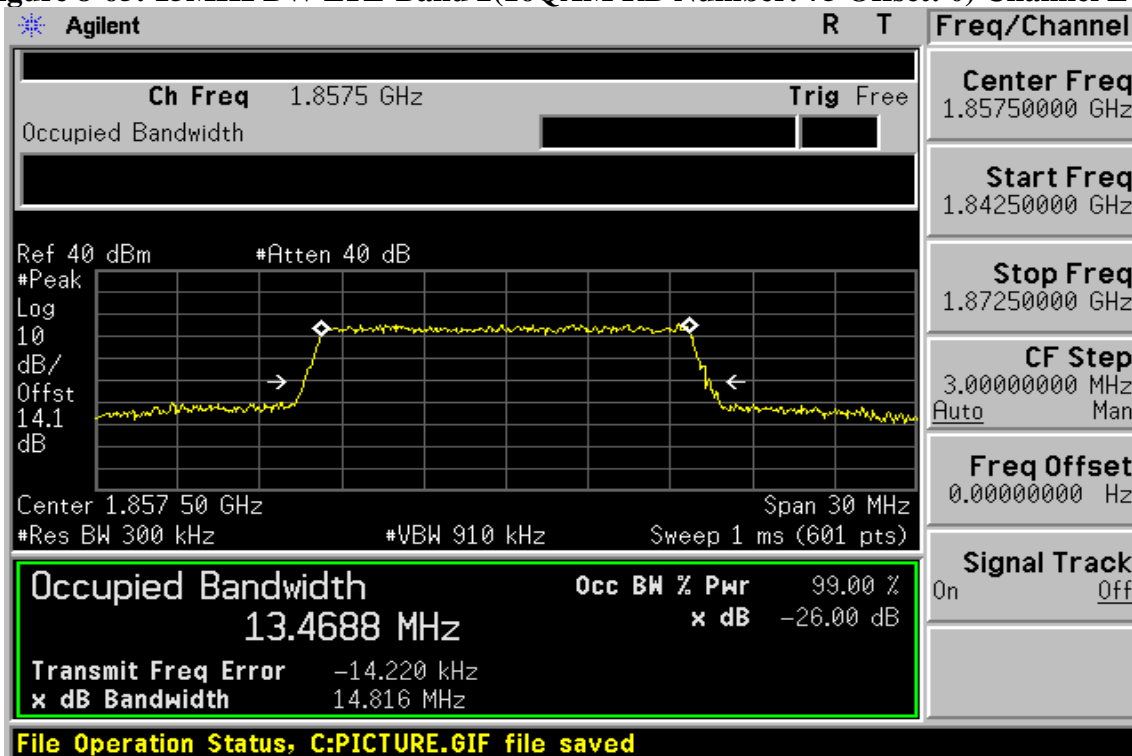


Figure 8-65: 15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel Low



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Figure 8-66: 15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel Mid

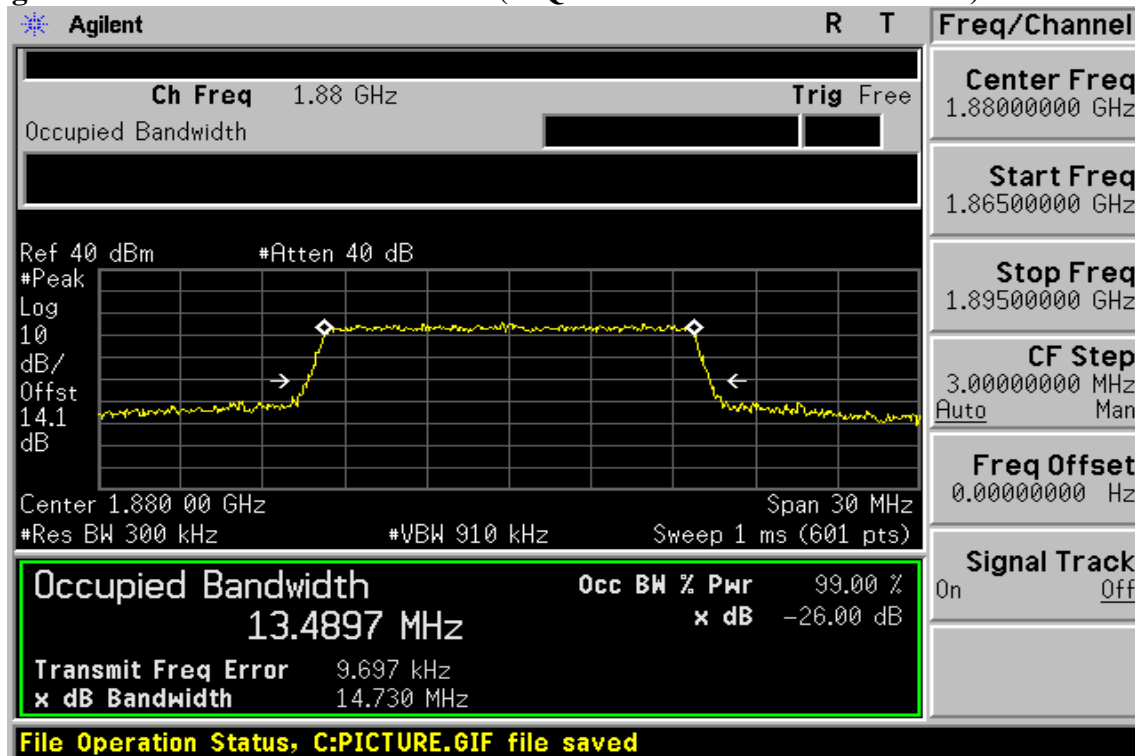
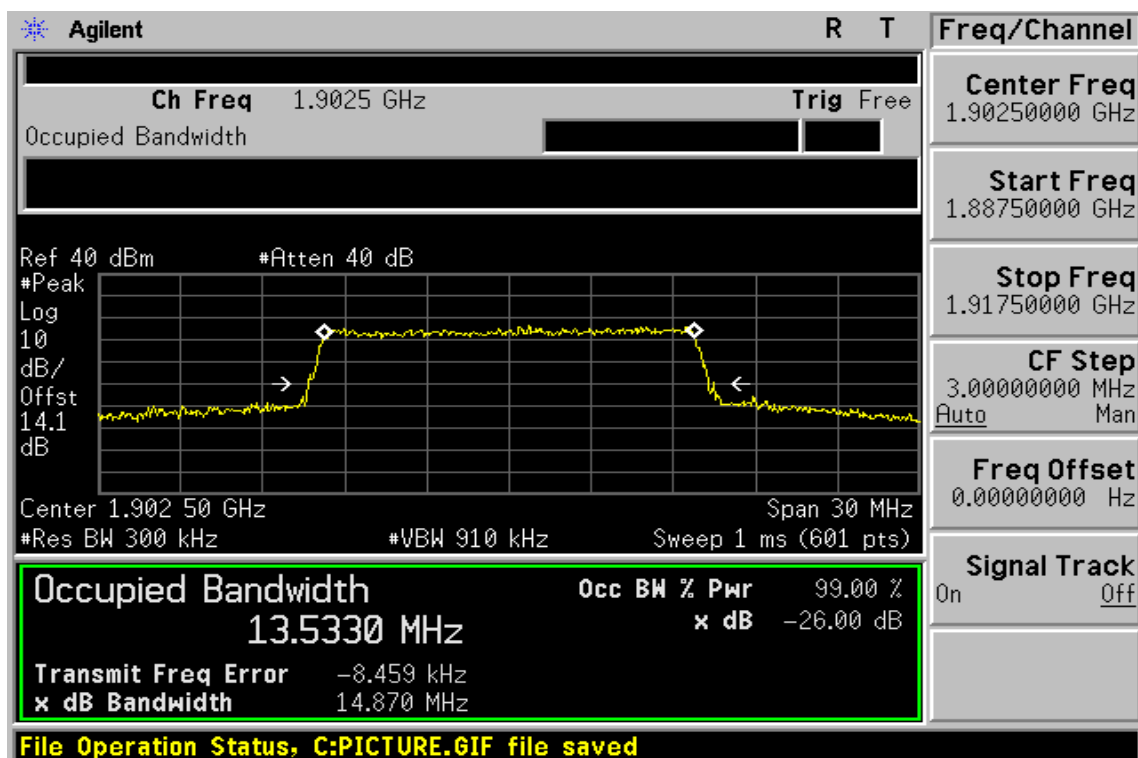


Figure 8-67: 15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel High



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Figure 8-68: 20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel Low

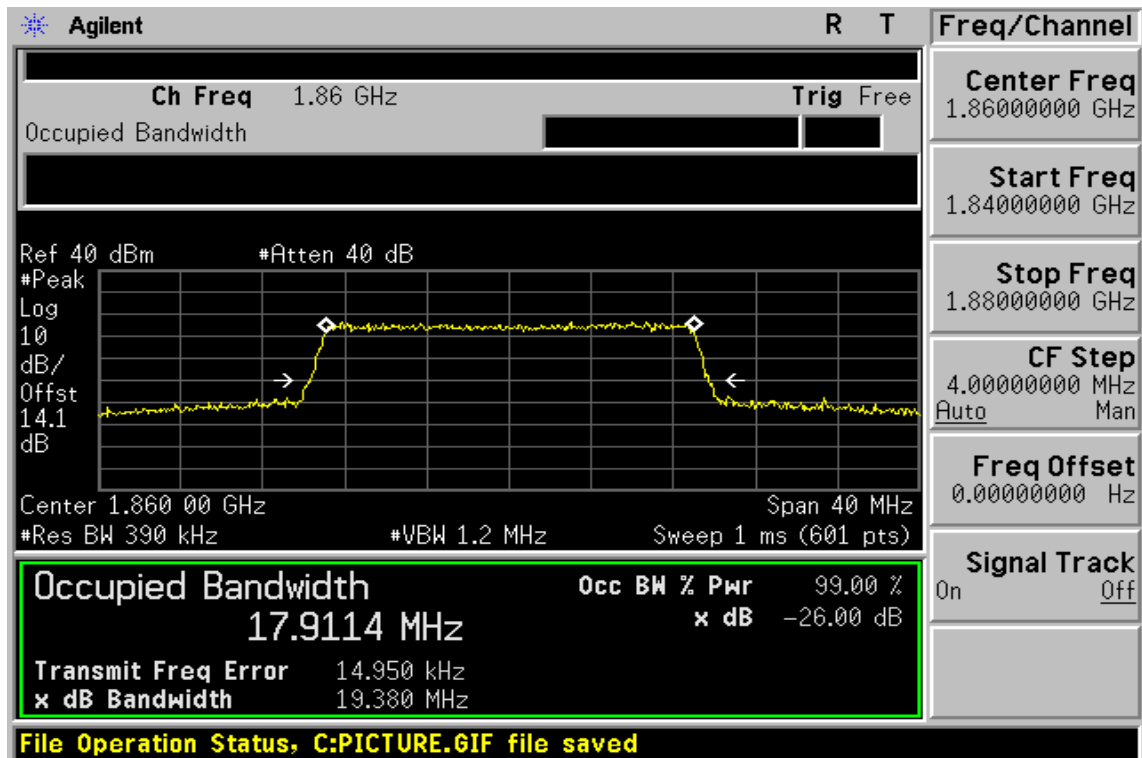
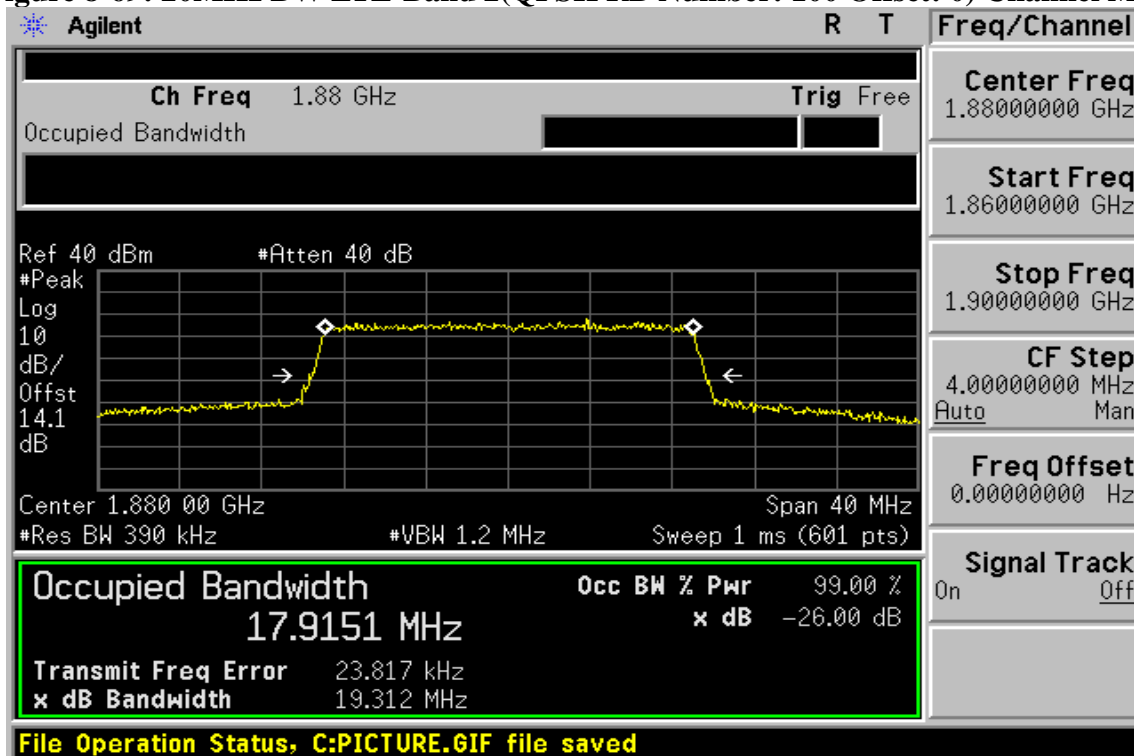


Figure 8-69: 20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel Mid



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Figure 8-70: 20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel High

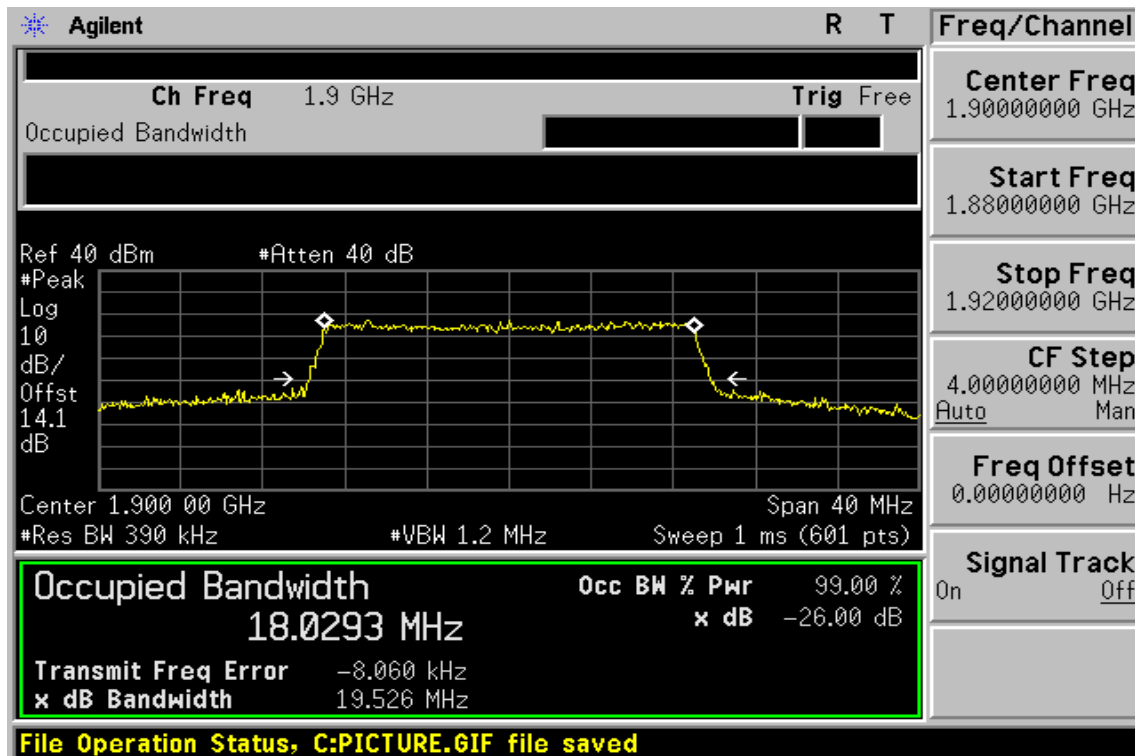
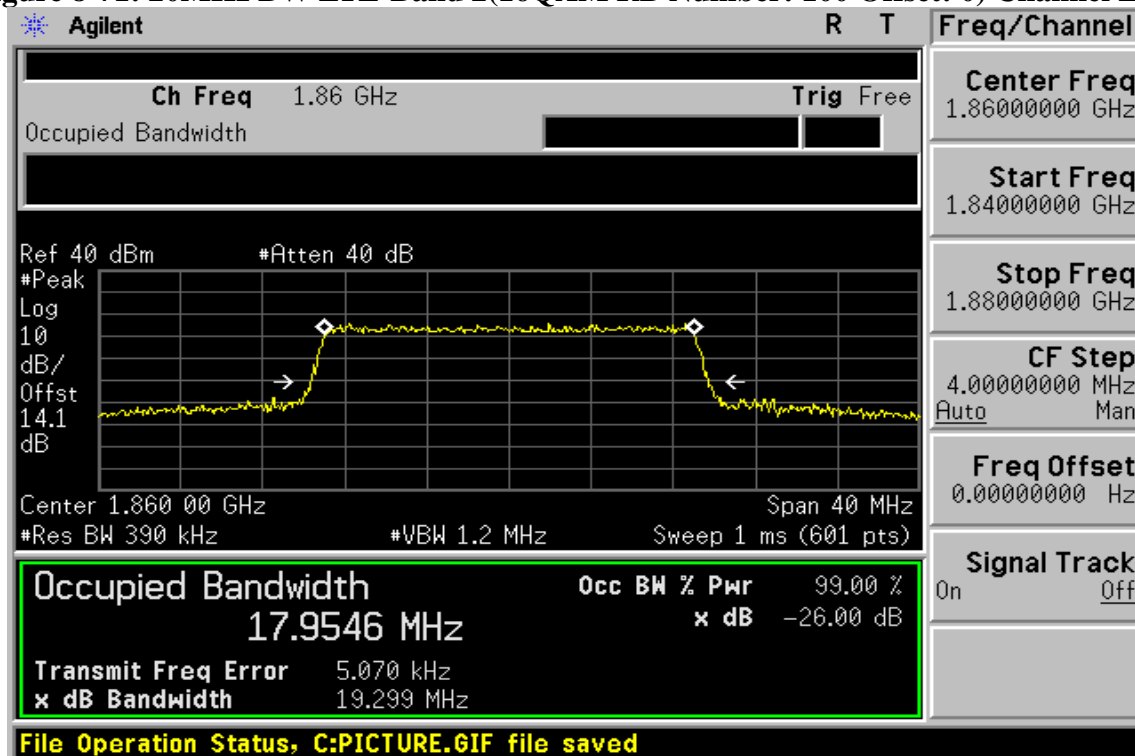


Figure 8-71: 20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel Low



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Figure 8-72: 20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel Mid

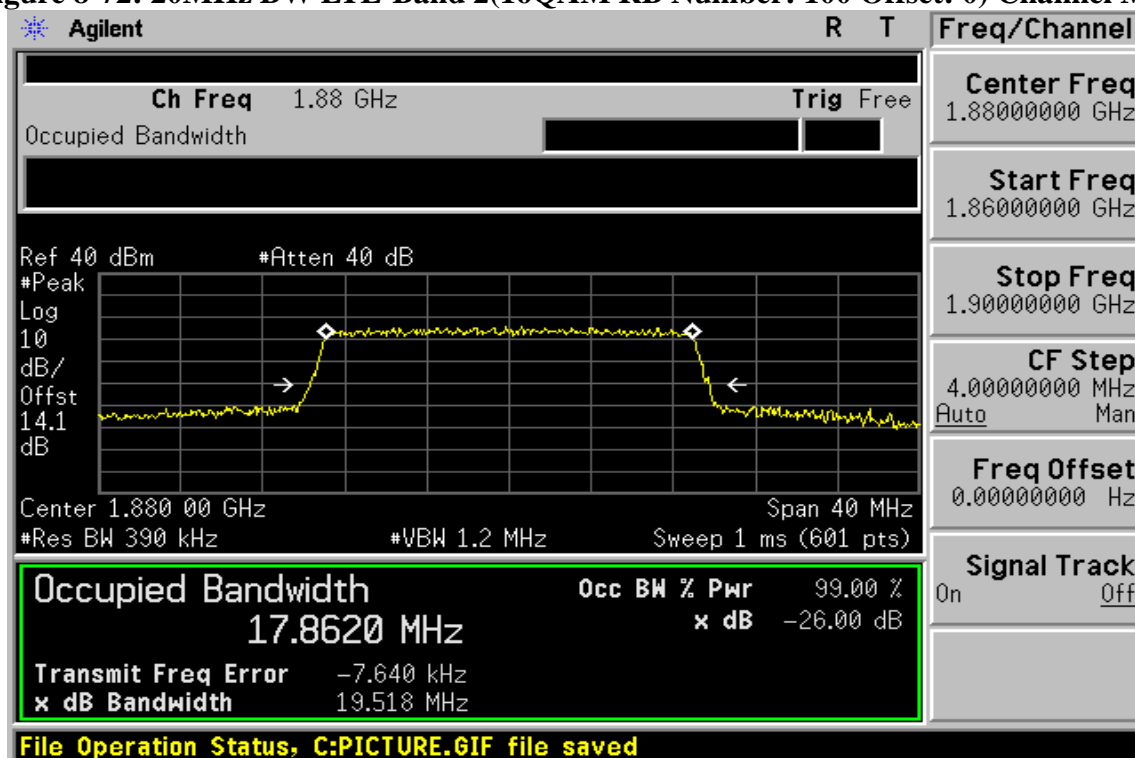
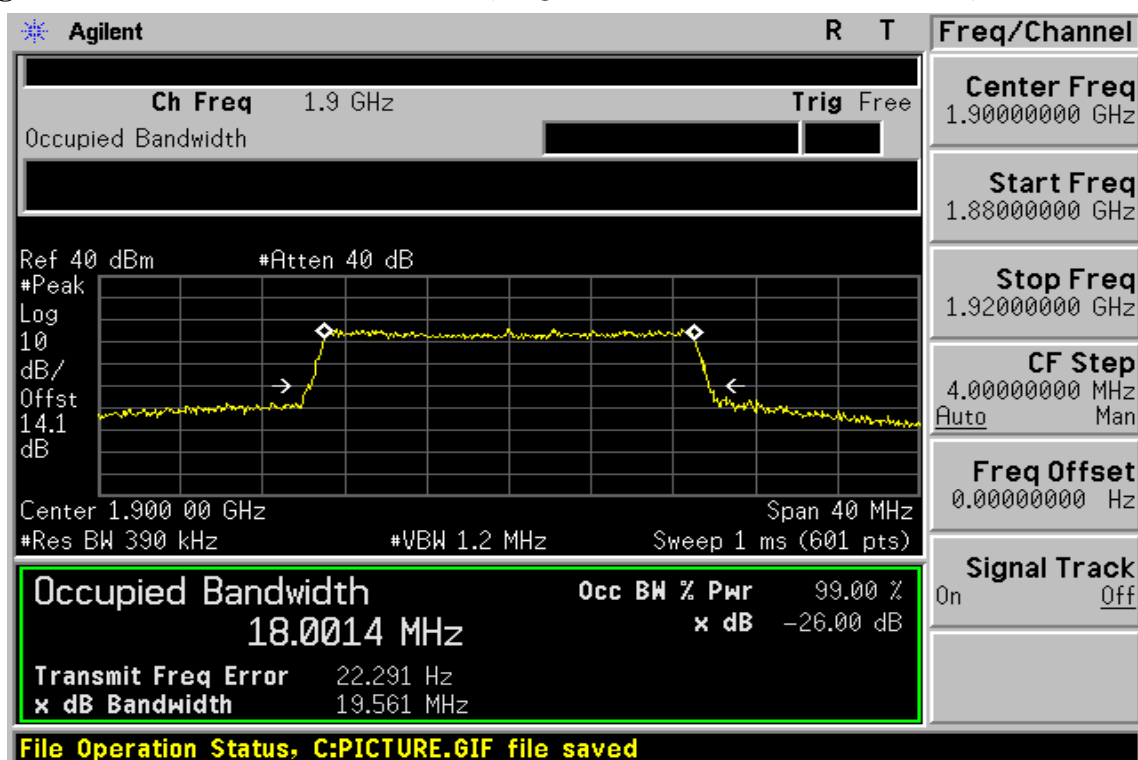


Figure 8-73: 20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel High



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Figure 8-74: 1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel Low

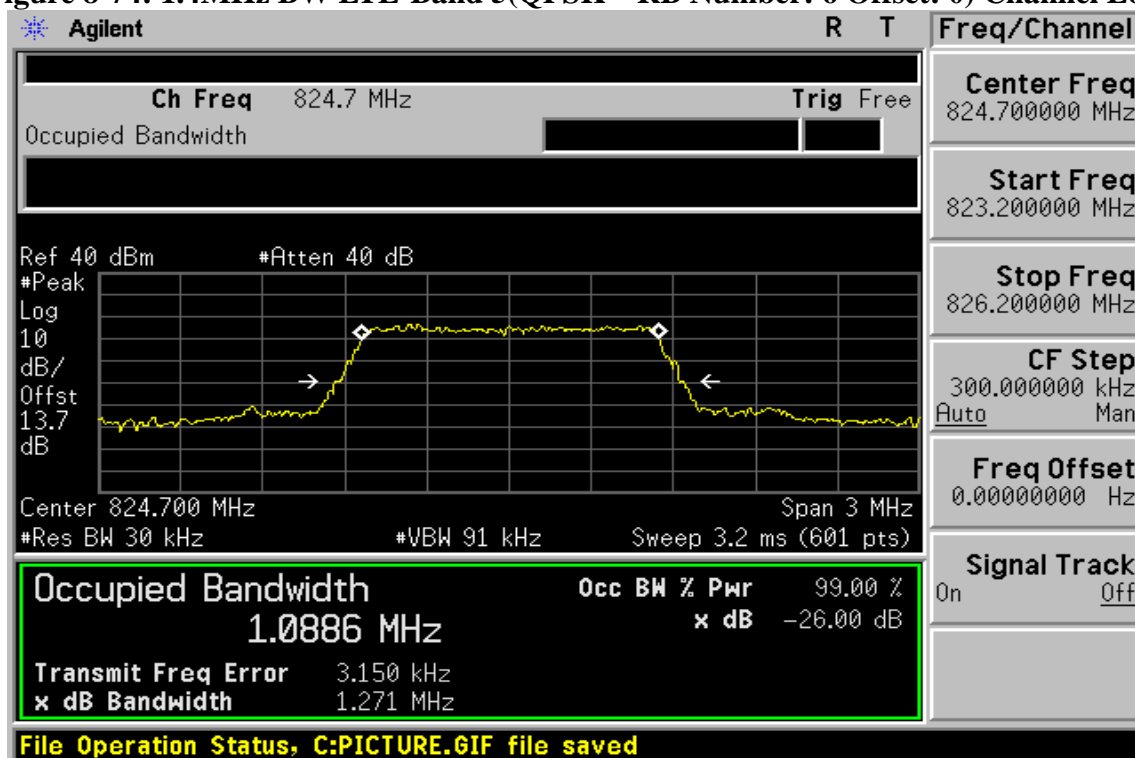
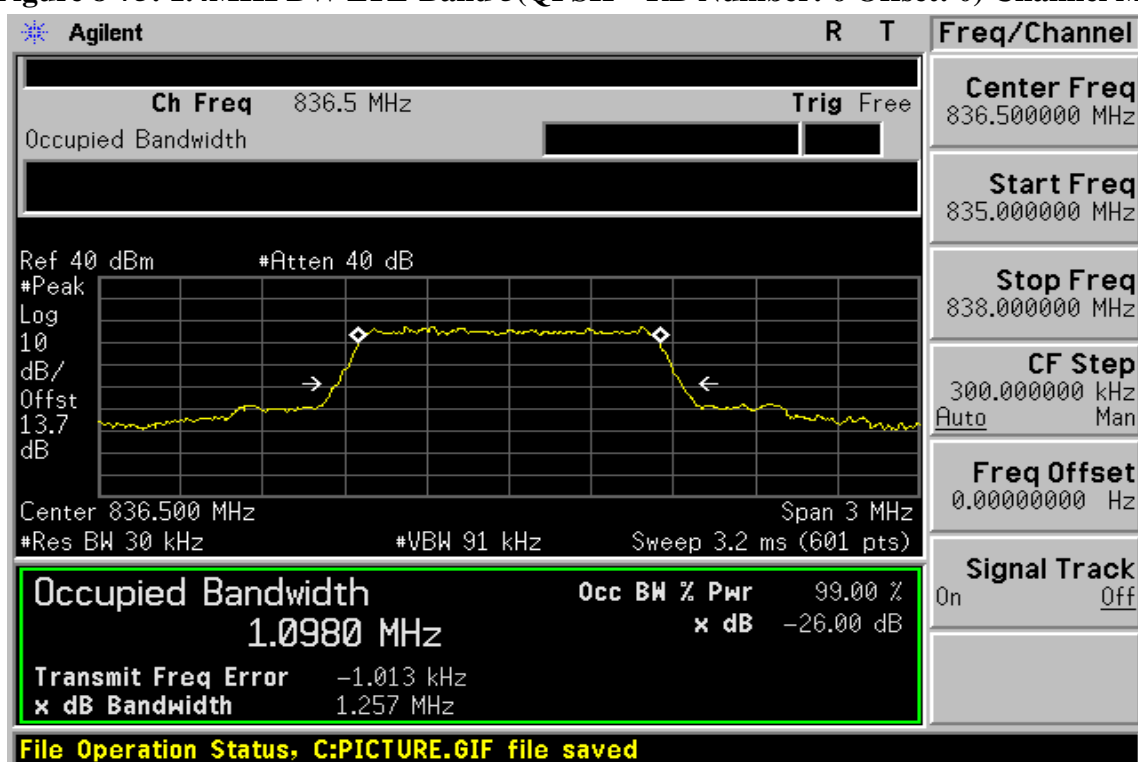


Figure 8-75: 1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel Mid



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Figure 8-76: 1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0)Channel High

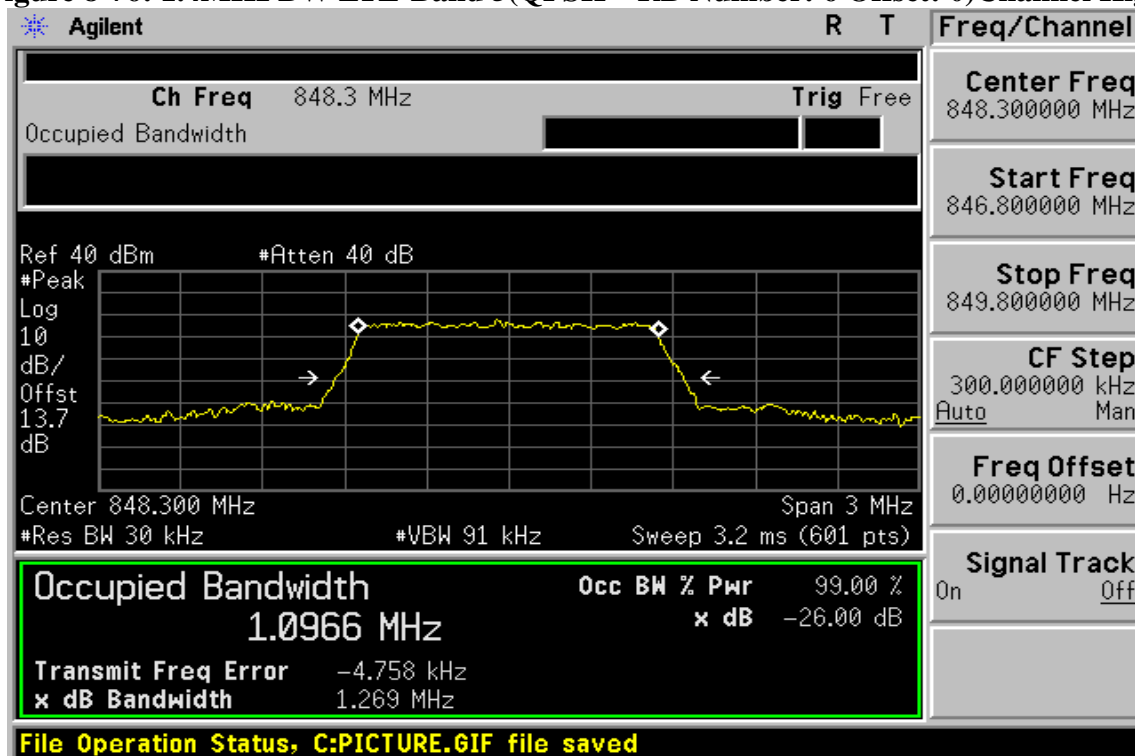
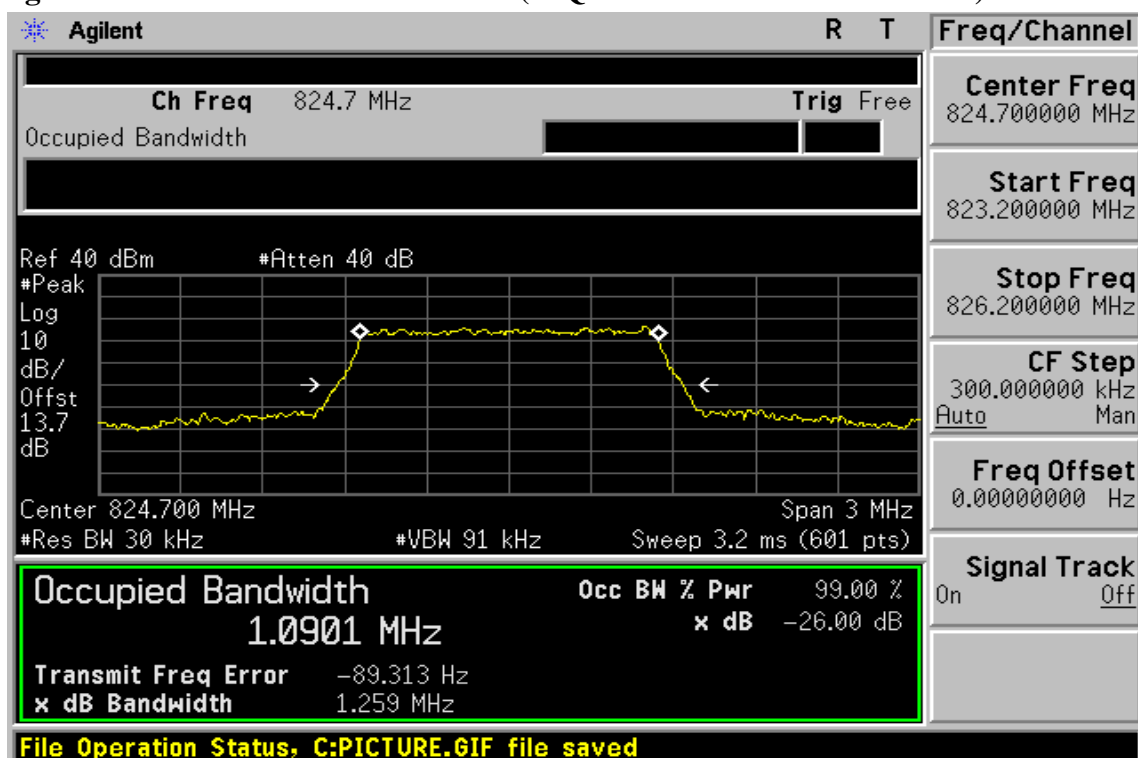


Figure 8-77: 1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0)Channel Low



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Figure 8-78: 1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0)Channel Mid

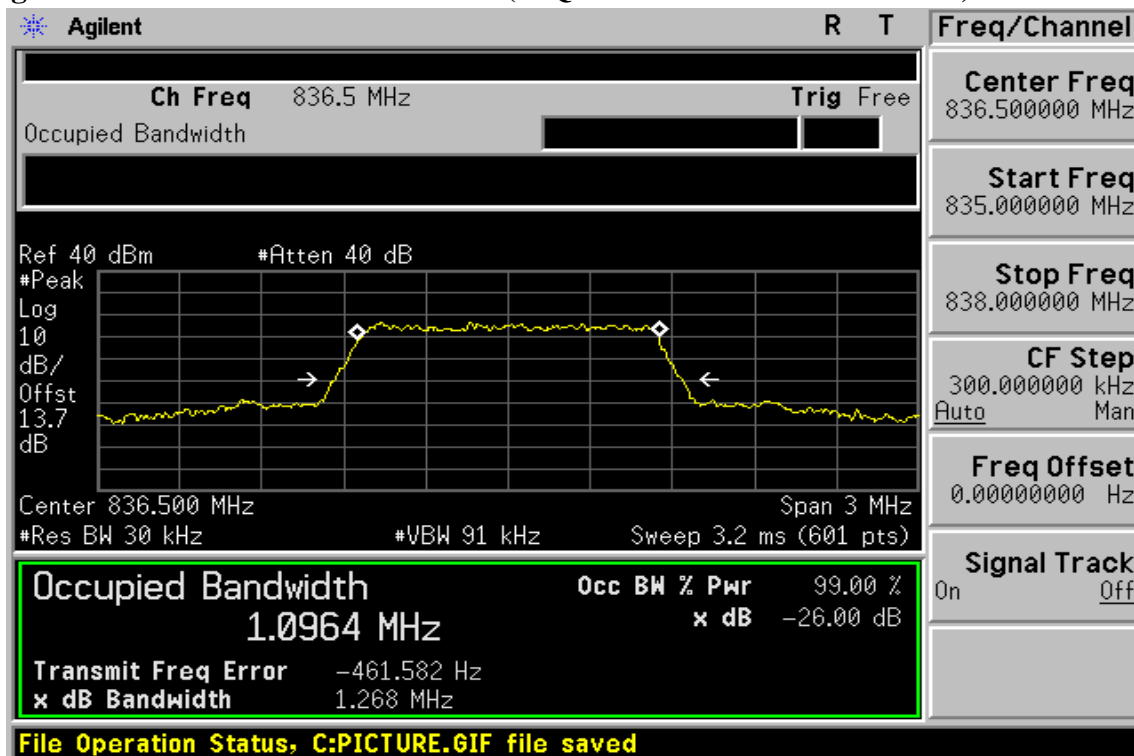
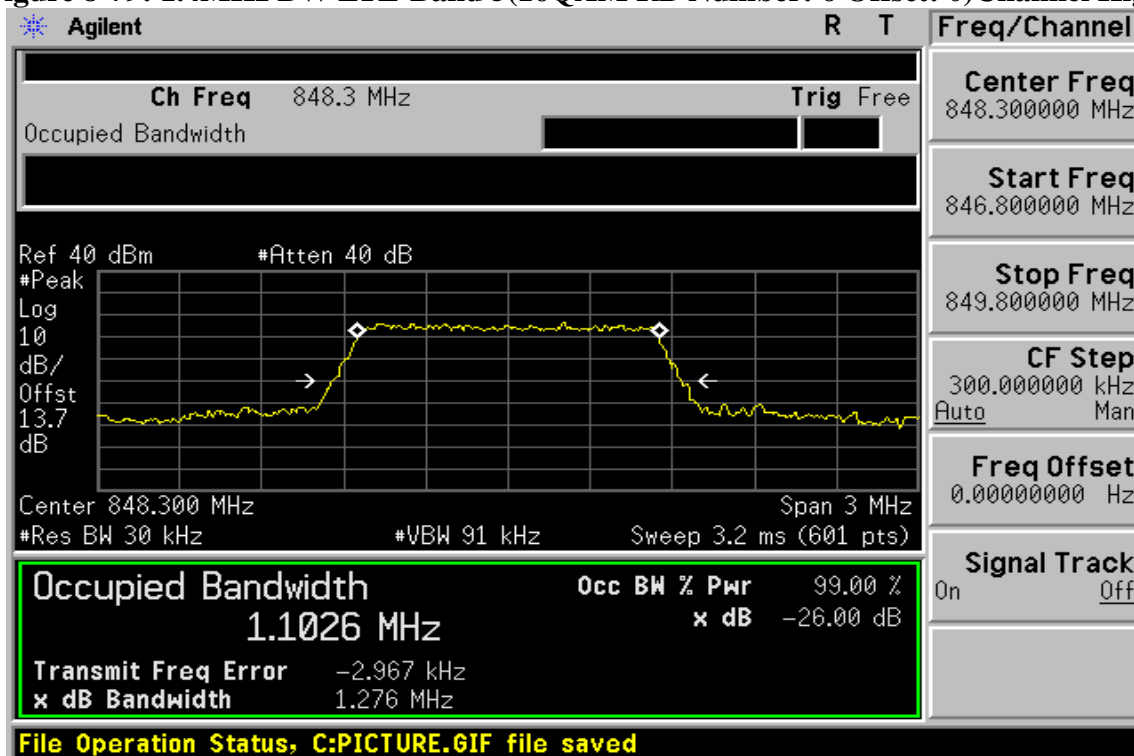


Figure 8-79: 1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0)Channel High



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Figure 8-80: 3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0)Channel Low

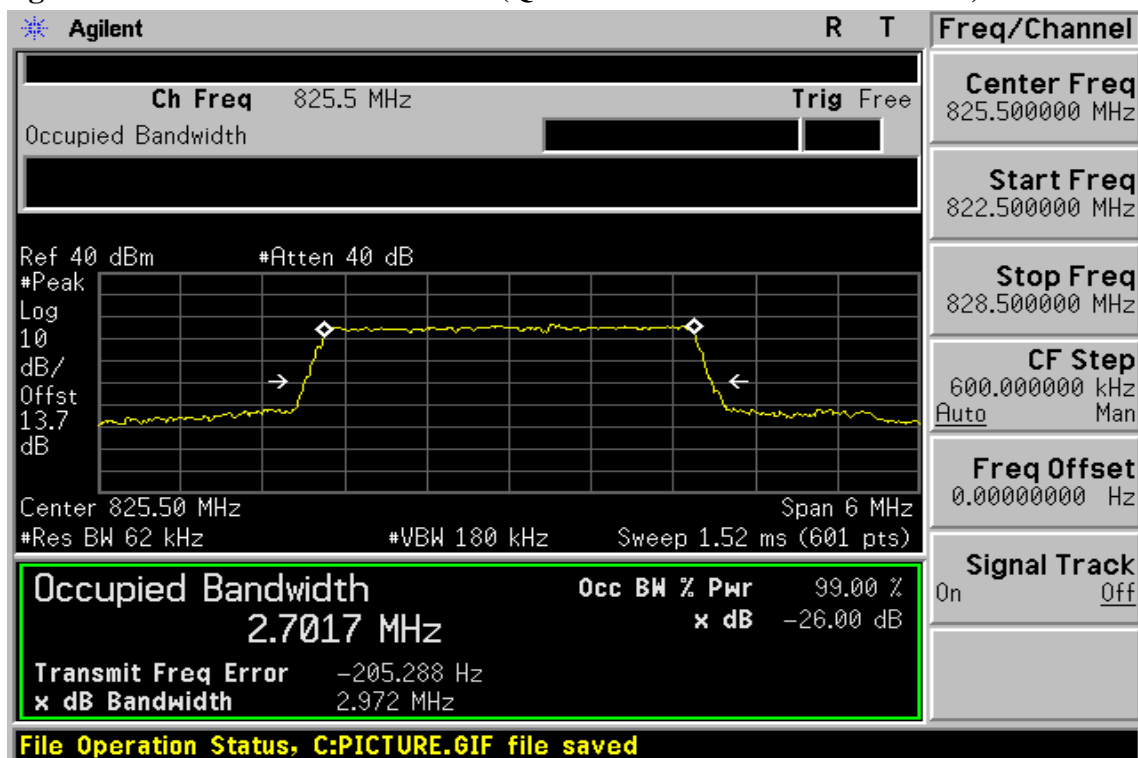
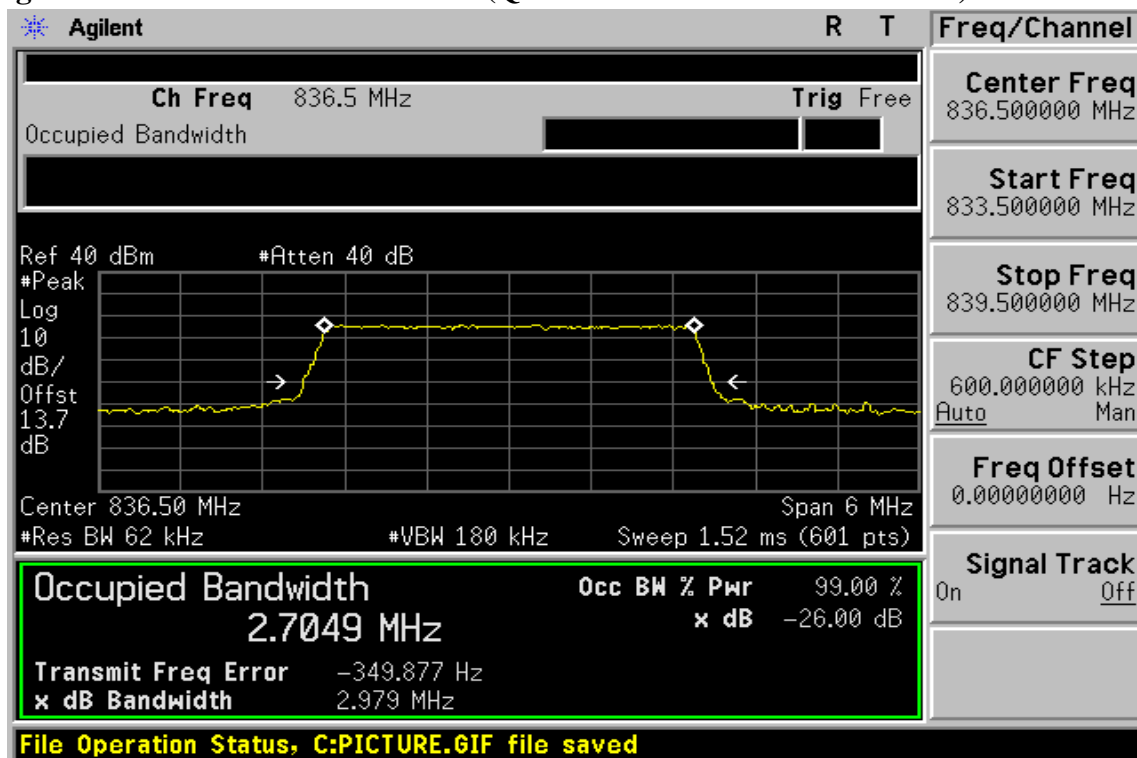


Figure 8-81: 3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0)Channel Mid



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Figure 8-82: 3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0)Channel High

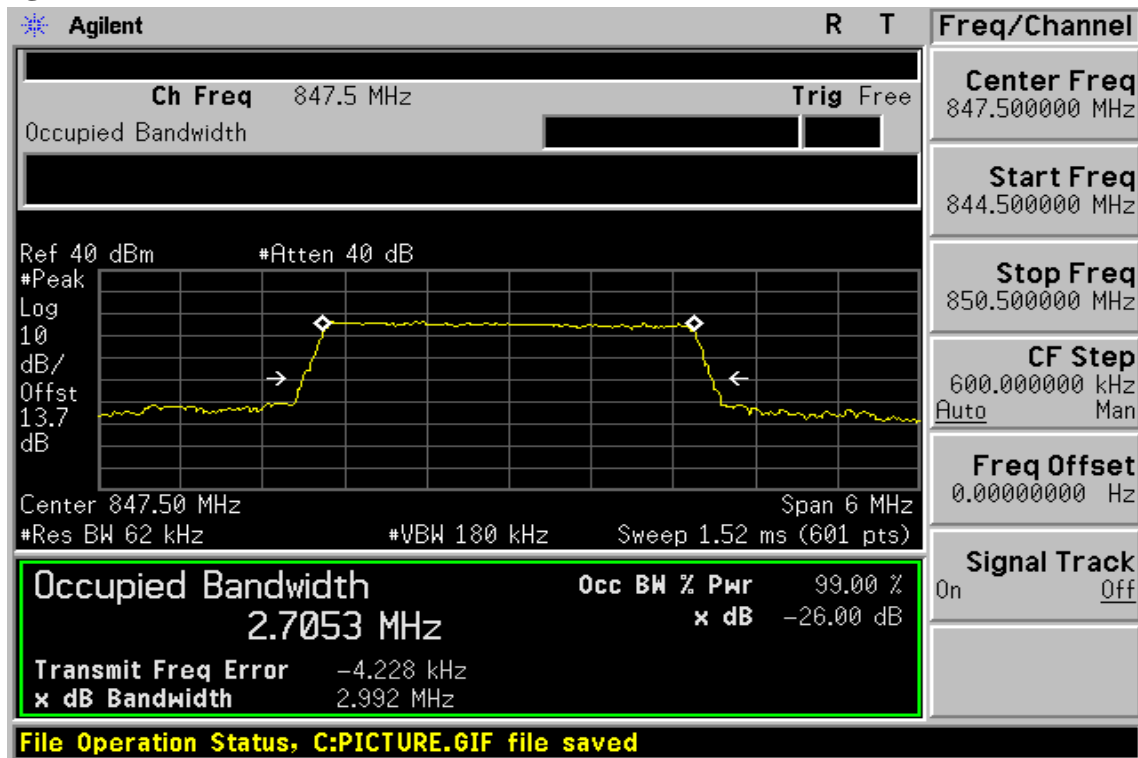
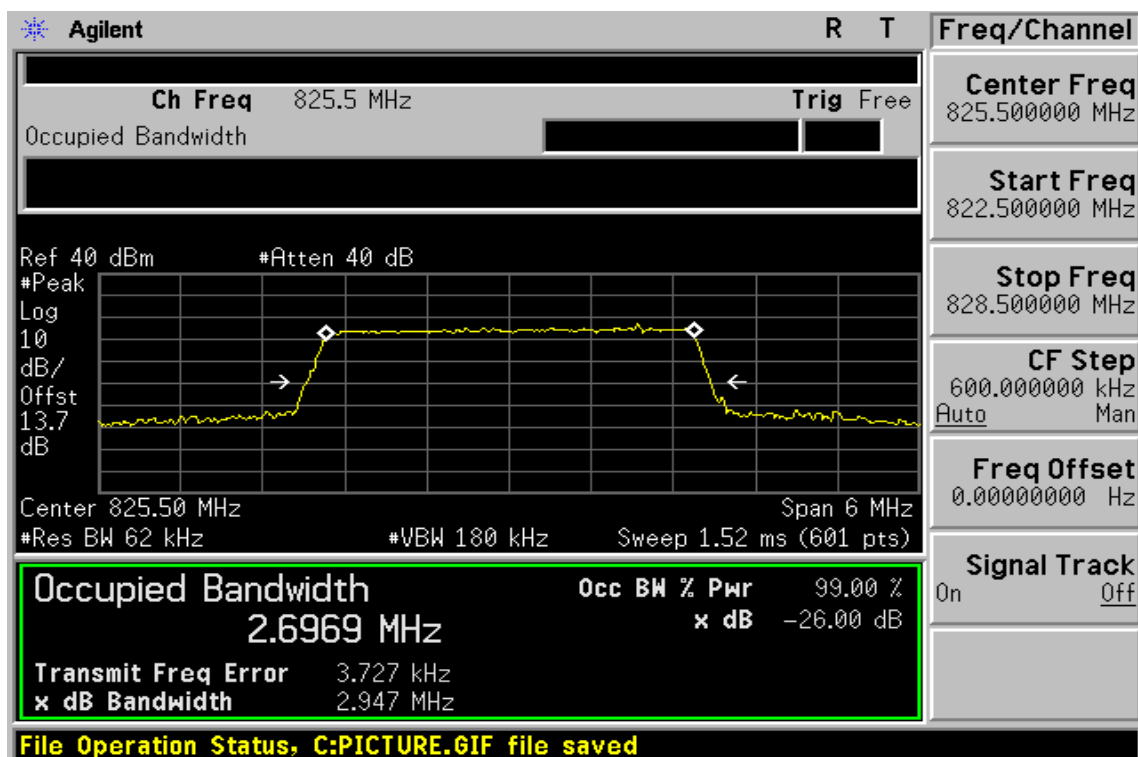


Figure 8-83: 3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0)Channel Low



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Figure 8-84: 3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0)Channel Mid

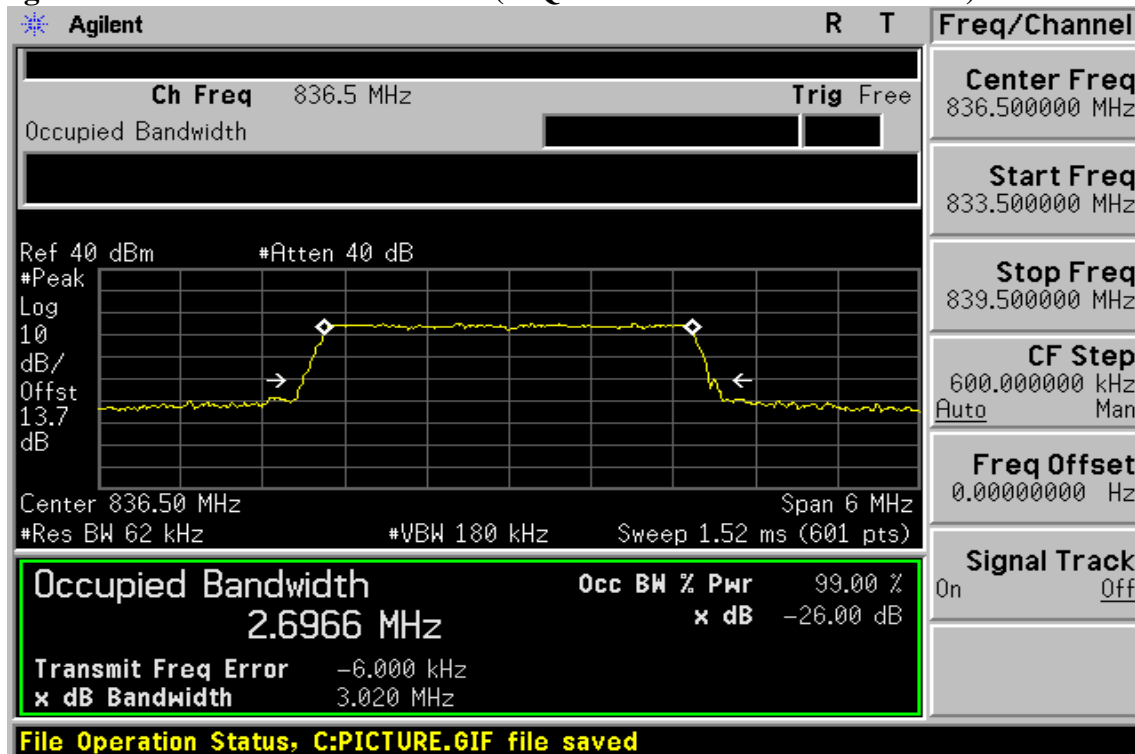
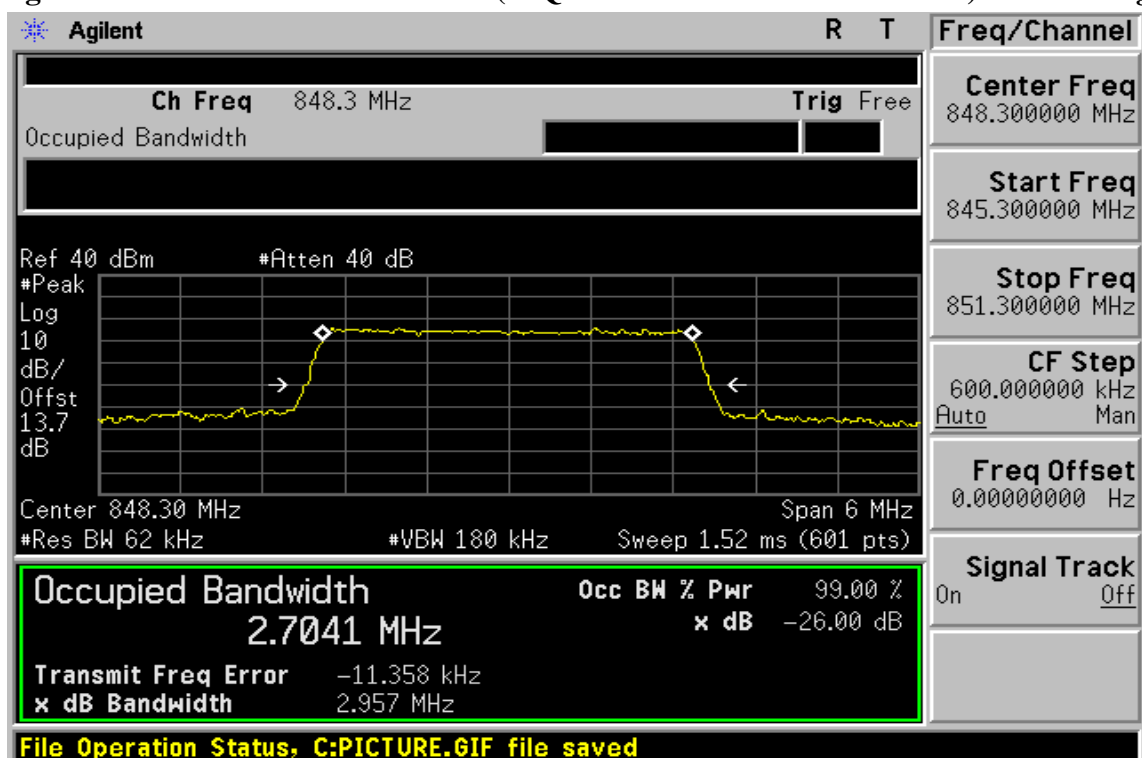


Figure 8-85: 3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0)Channel High



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Figure 8-86: 5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0)Channel Low

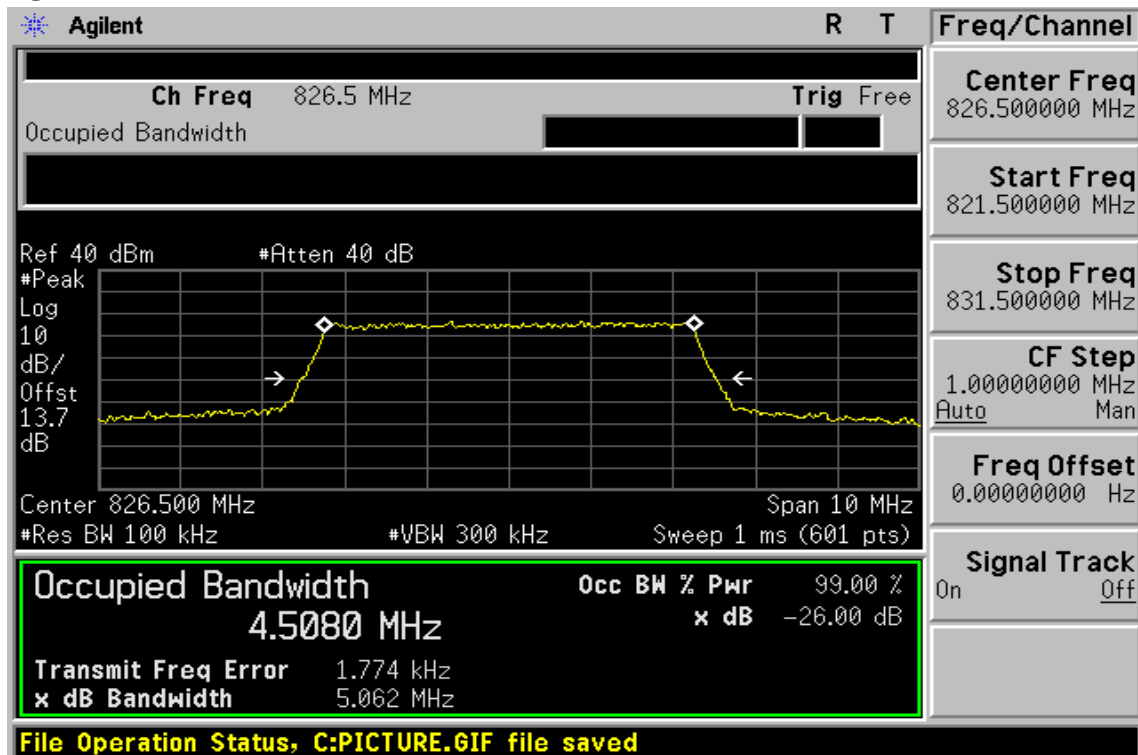
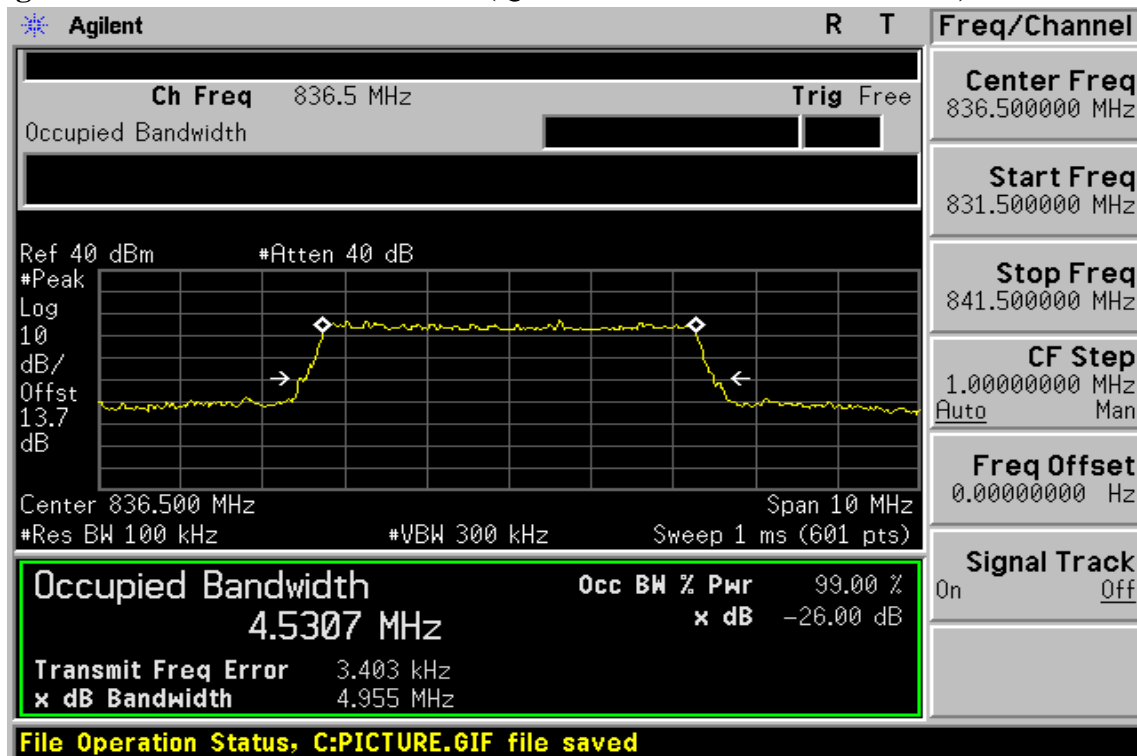


Figure 8-87: 5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0)Channel Mid



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Figure 8-88: 5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0)Channel High

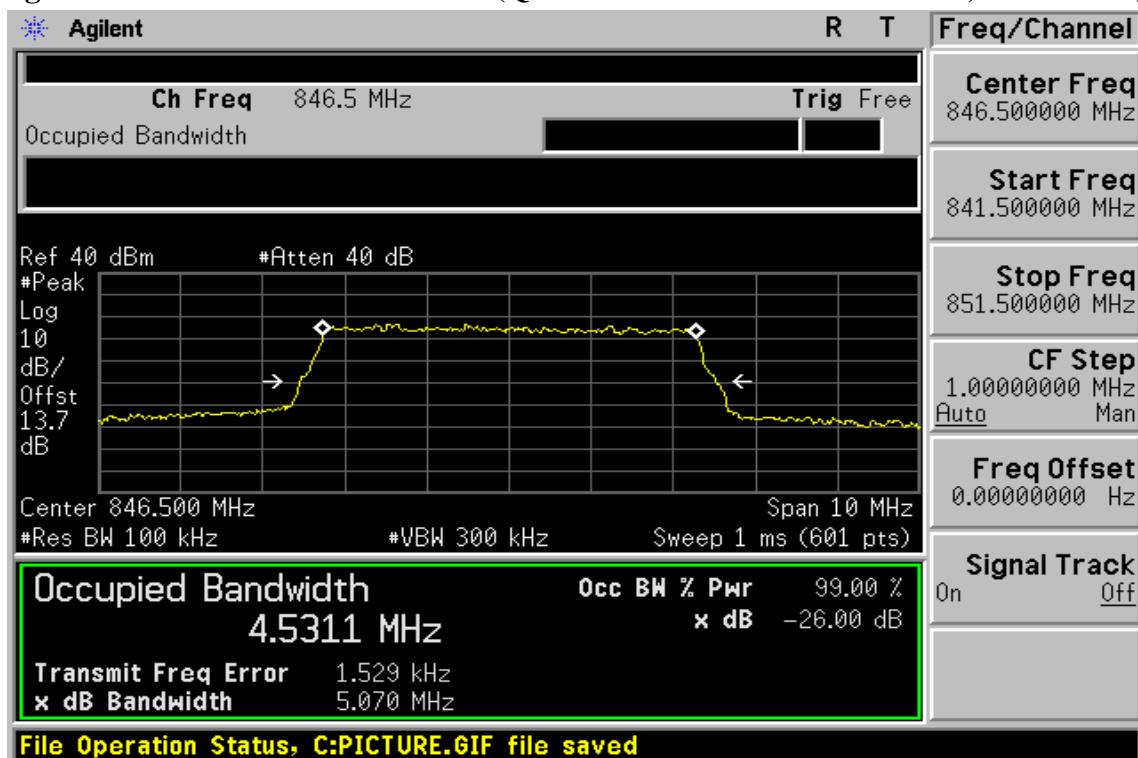
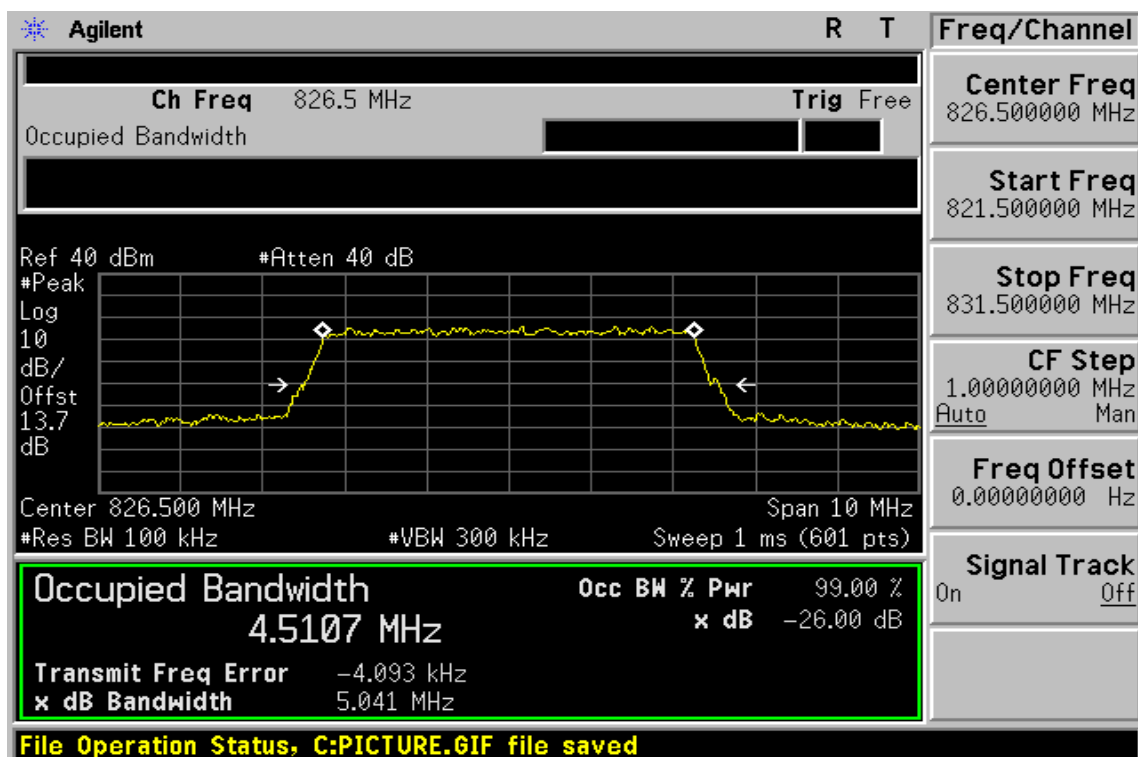


Figure 8-89: 5MHz BW LTE-Band 5(16QAMRB Number: 25 Offset: 0)Channel Low



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Figure 8-90: 5MHz BW LTE-Band 5(16QAMRB Number: 25 Offset: 0)Channel Mid

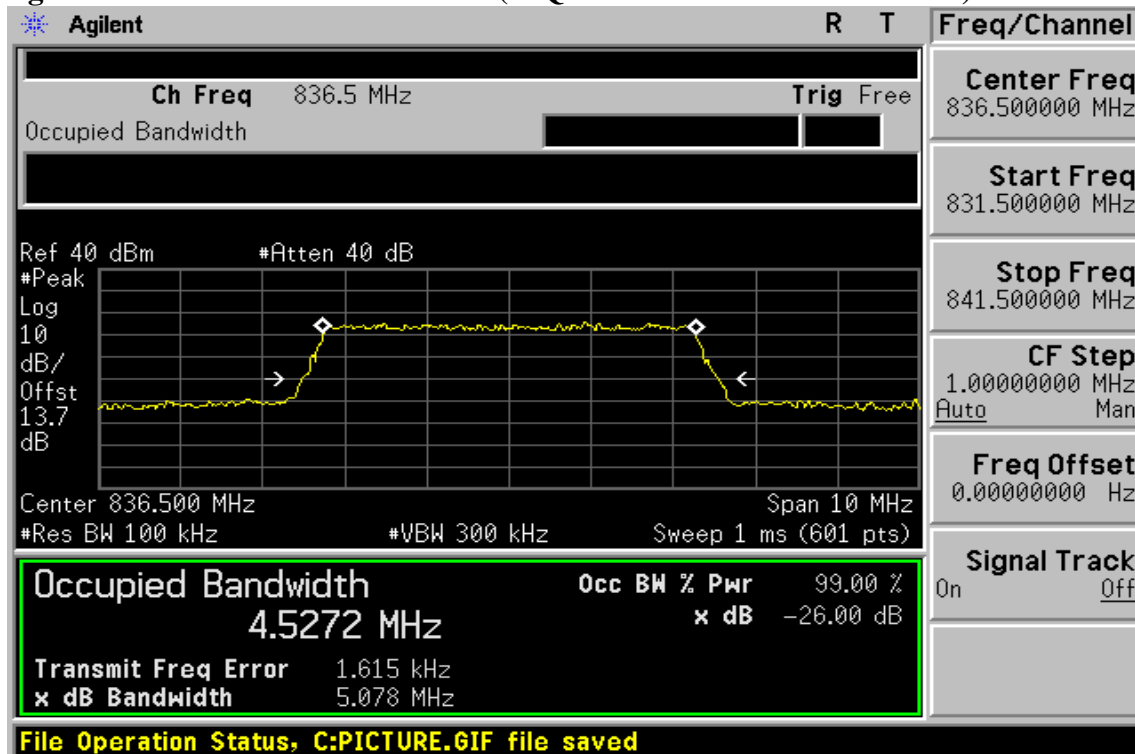
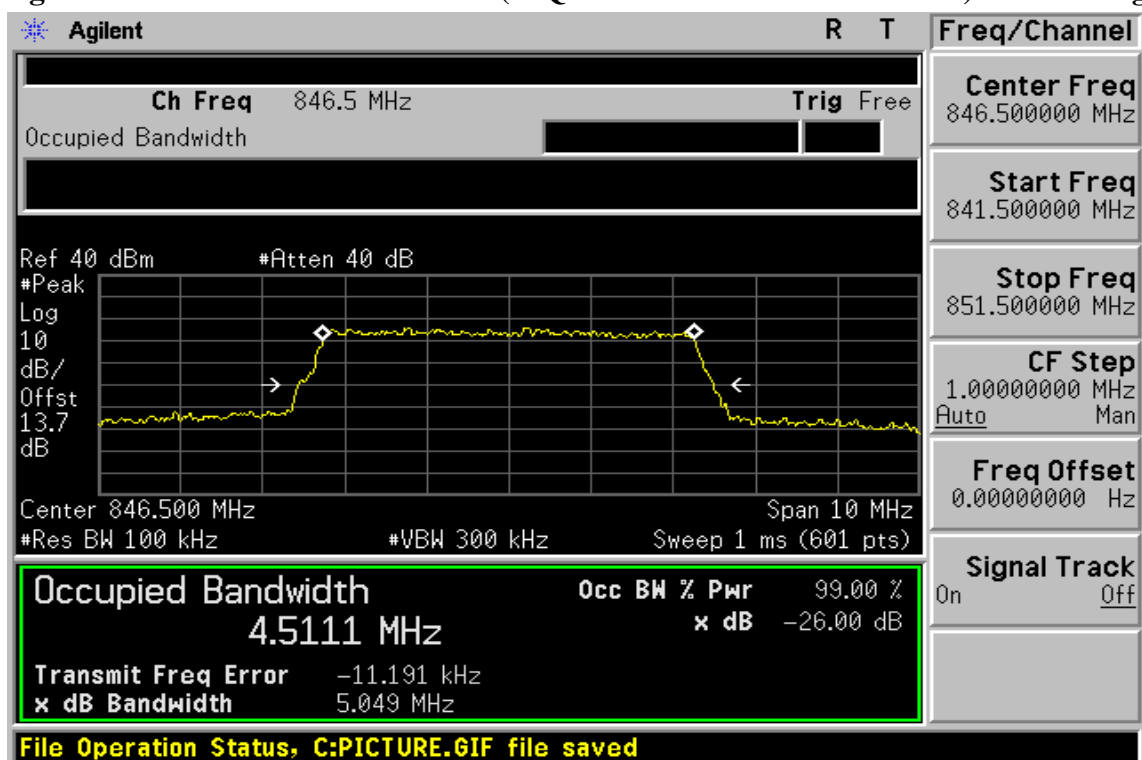


Figure 8-91: 5MHz BW LTE-Band 5(16QAMRB Number: 25 Offset: 0)Channel High



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Figure 8-92: 10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0)Channel Low

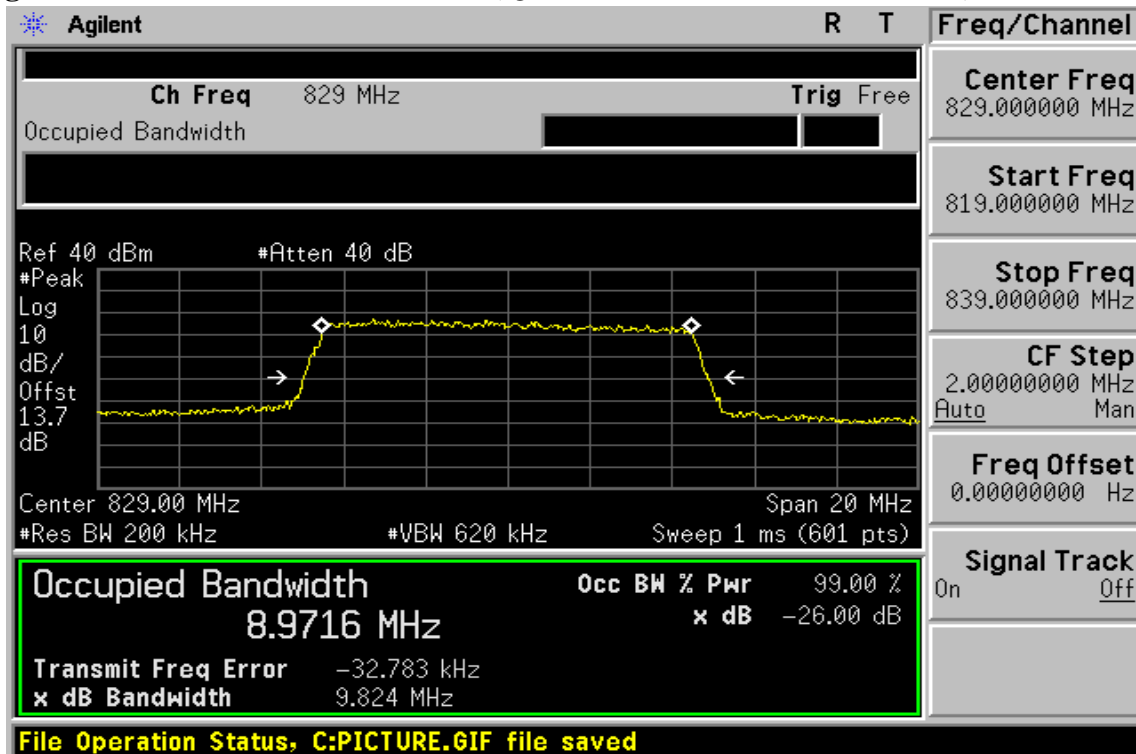
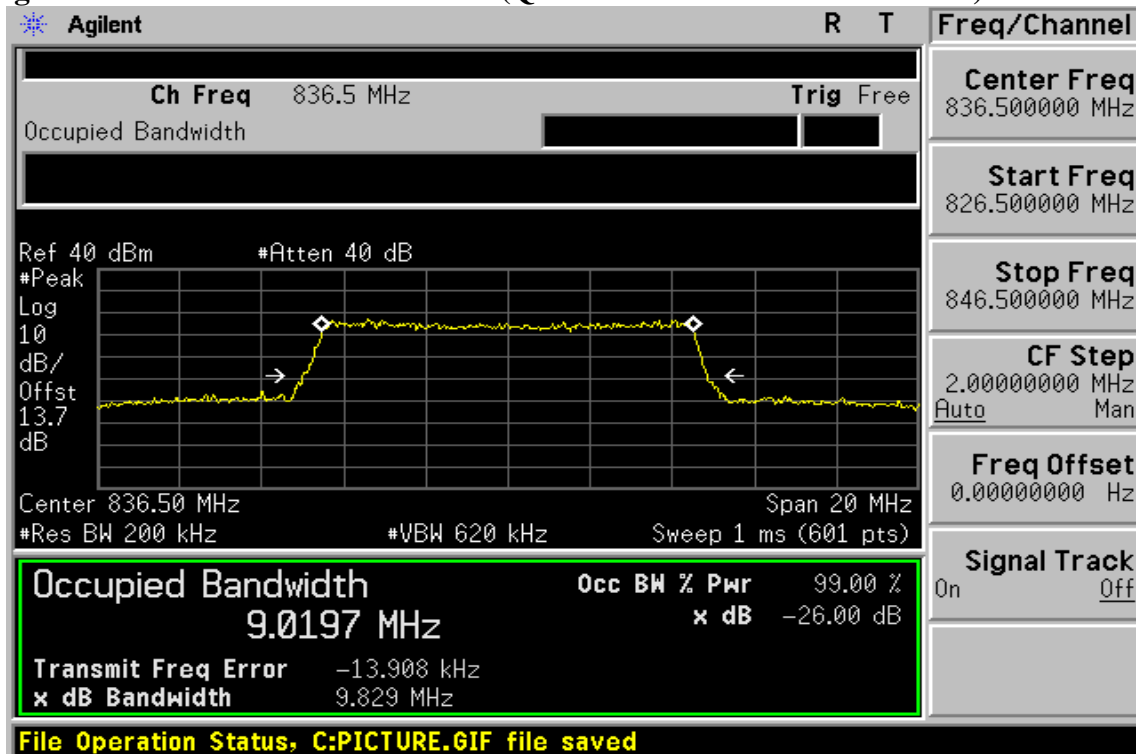


Figure 8-93: 10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0)Channel Mid



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Figure 8-94: 10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0)Channel High

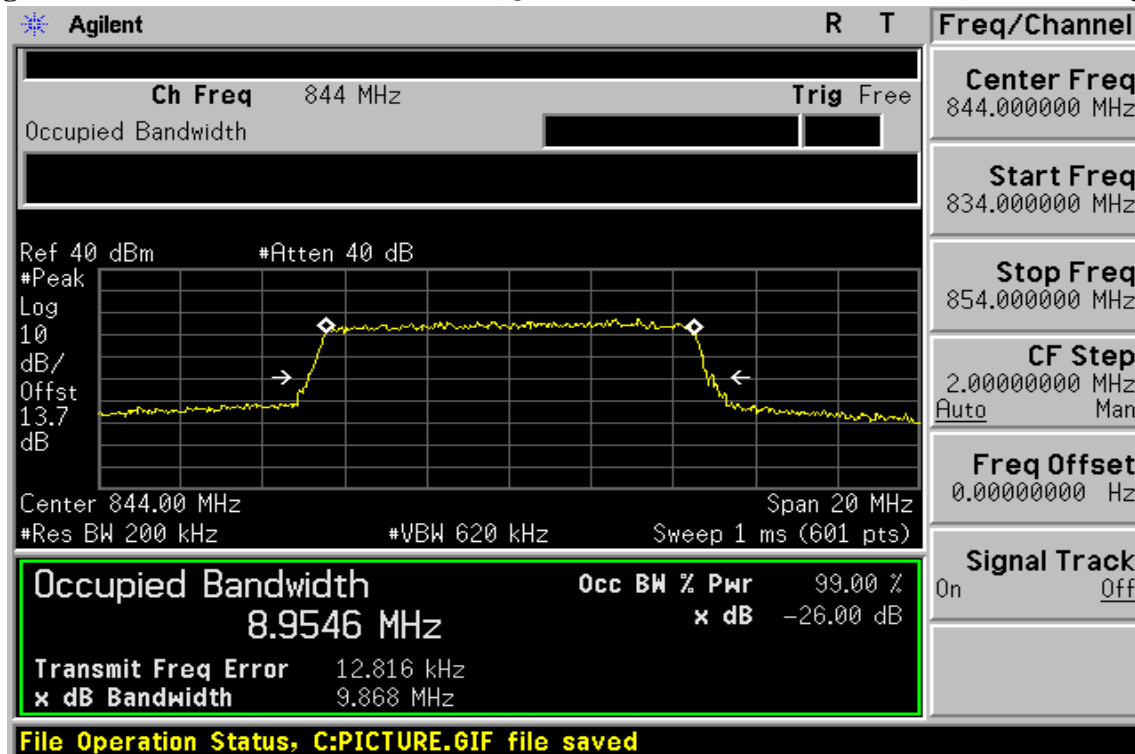
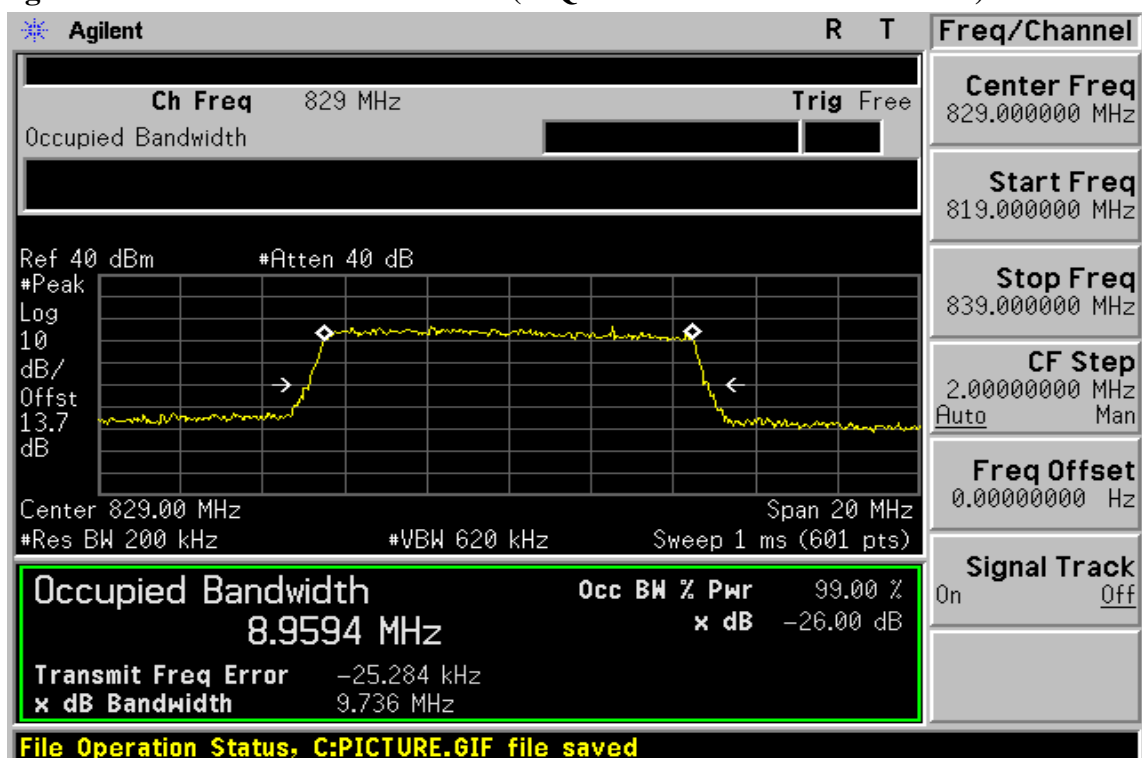


Figure 8-95: 10MHz BW LTE-Band 5(16QAMRB Number: 50 Offset: 0)Channel Low



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Figure 8-96: 10MHz BW LTE-Band 5(16QAMRB Number: 50 Offset: 0)Channel Mid

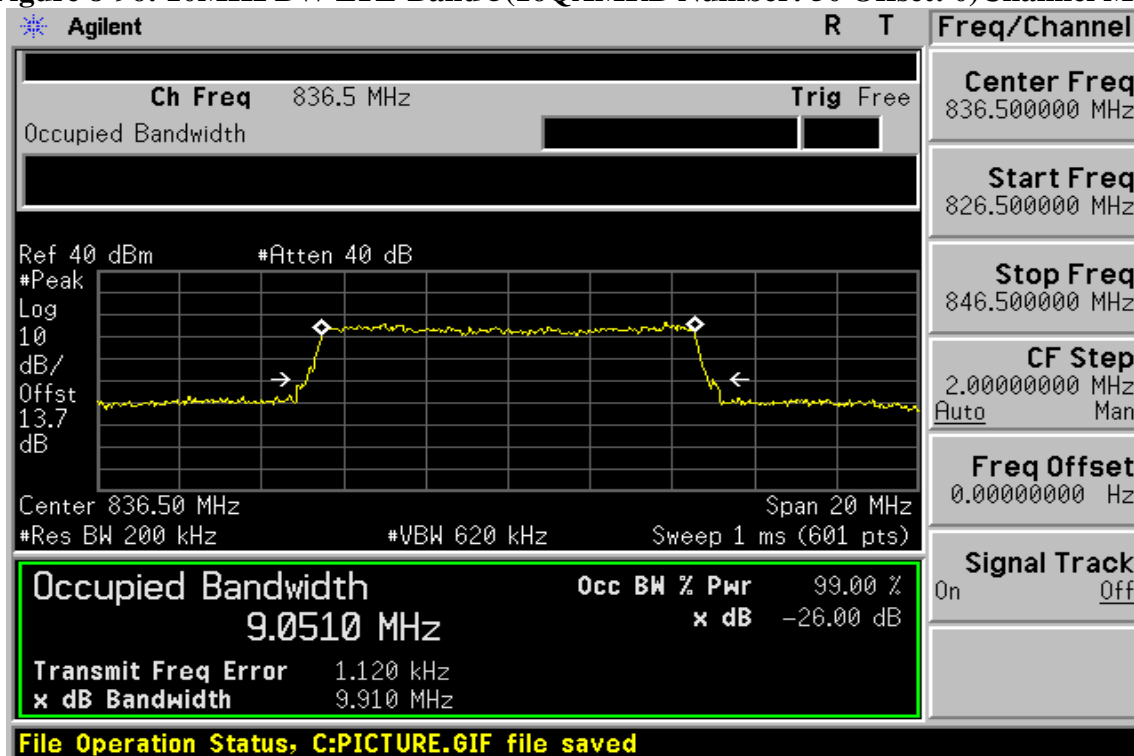
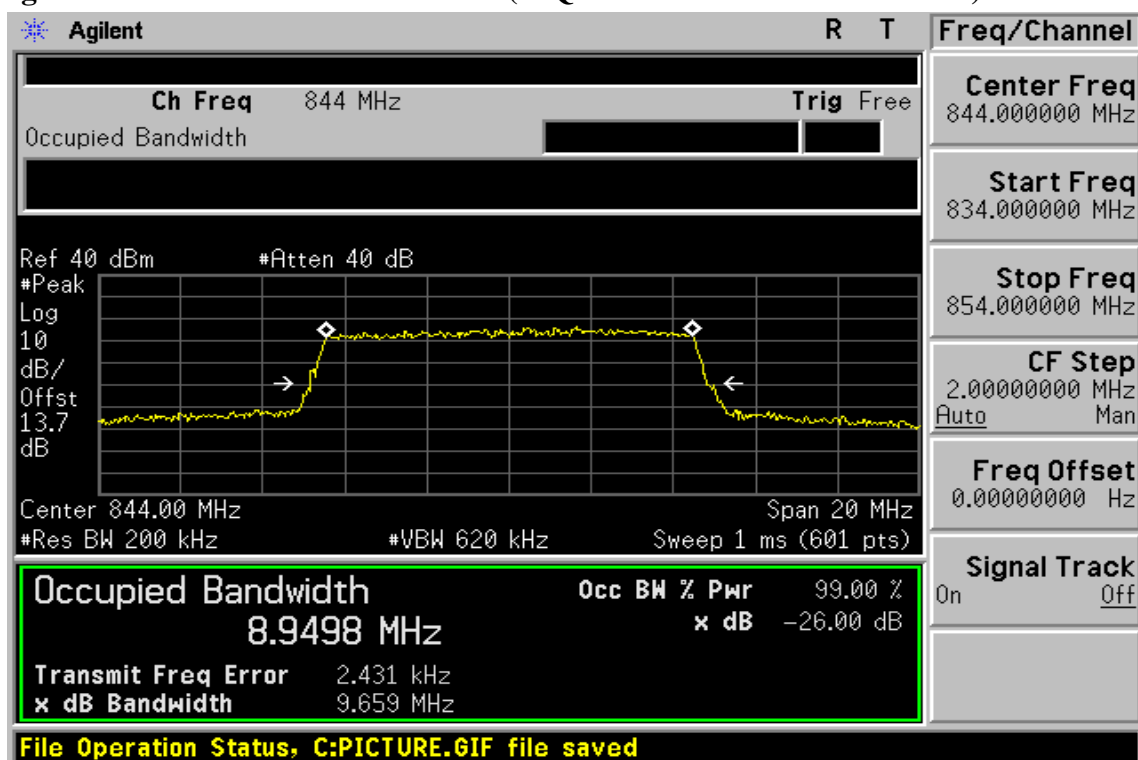


Figure 8-97: 10MHz BW LTE-Band 5(16QAMRB Number: 50 Offset: 0)Channel High



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## 9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

### 9.1. Standard Applicable:

According to FCC §2.1051.

FCC §22.917(a), §24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than  $43 + 10 \log$  (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm). §27.53 (m) (4) shall not be less than  $55 + 10 \log$  (mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

### 100KHz Bandedge:

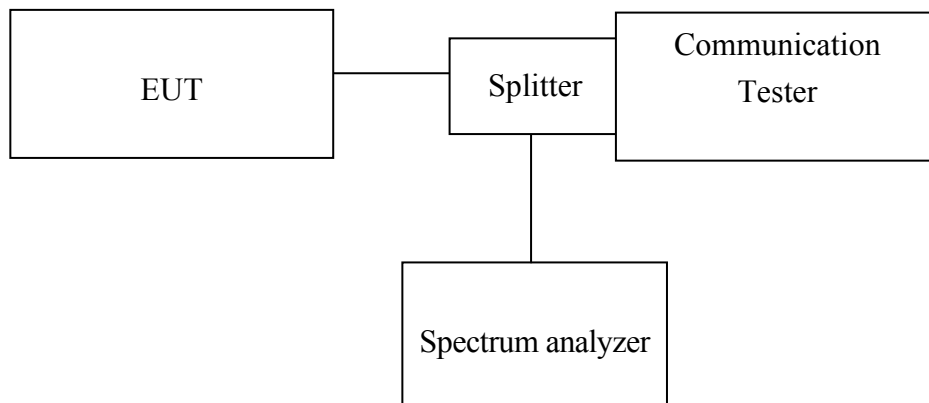
Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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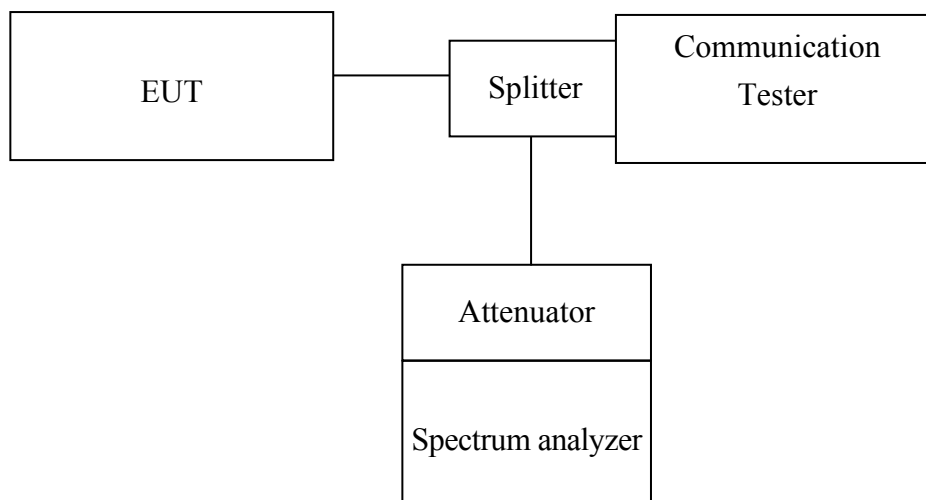
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## 9.2. Test SET-UP: Out of band emission



## Band Edge



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### 9.3. Measurement Procedure:

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10 th harmonic. Limit = -13dBm.

Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

### Conducted Emission:

- 1、 To connect Antenna Port of EUT to Spectrum.
- 2、 Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3、 Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 1G, 1G to 2.5G, 2.5G to 7.5G, 7.5G to 10G ,10G to 15G and 15G to 20GHz
- 4、 Via Software, combine 6 spans of frequency range into one plot

### 9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

### 9.5. Measurement Result:

Refer to next pages.

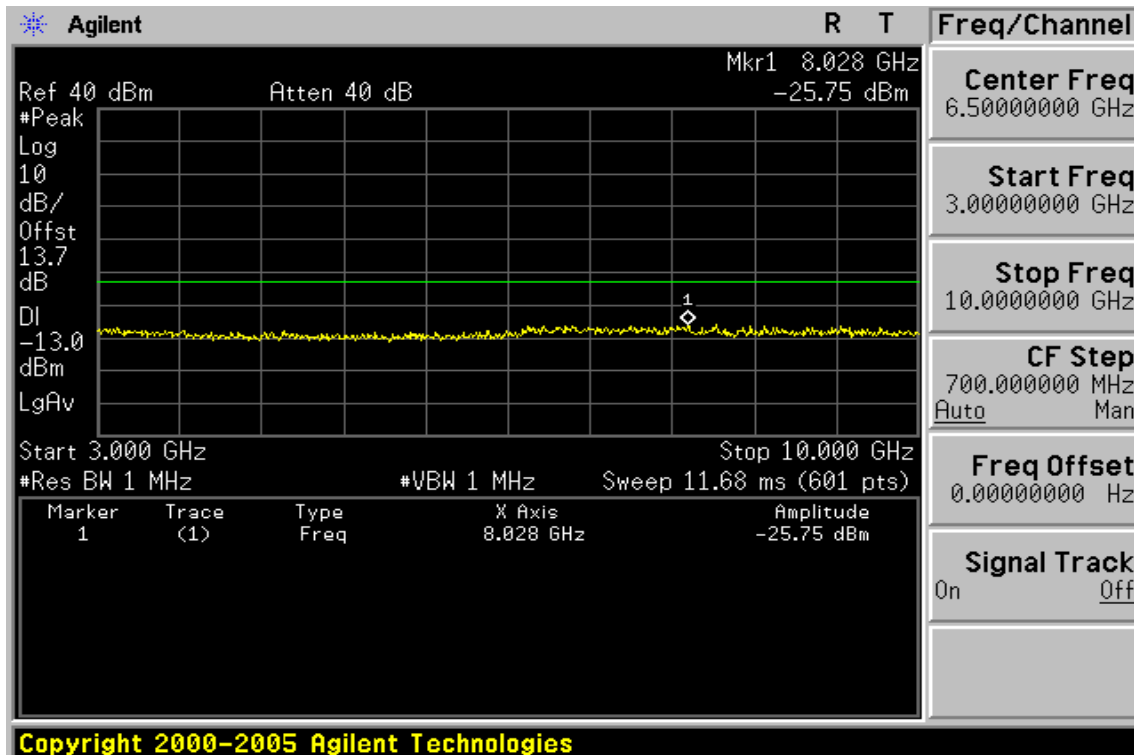
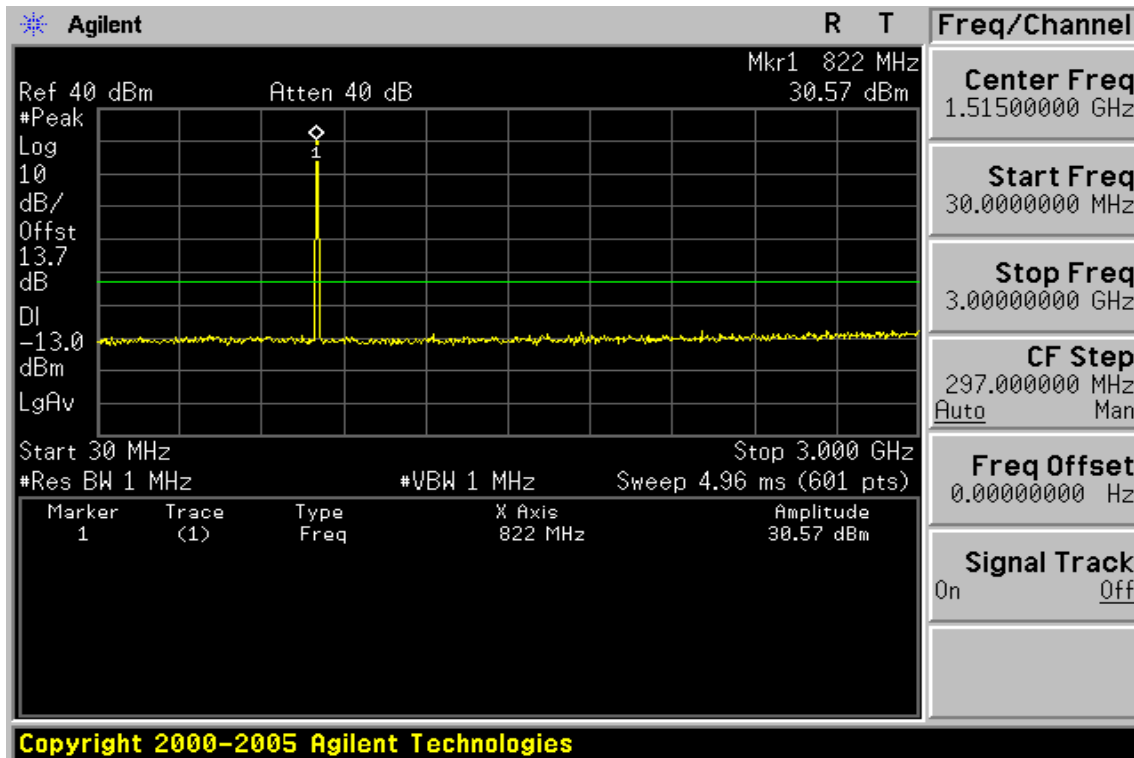
**NOTE: the occurrence of the spike on the conducted emission is the signal of the fundamental emission.**

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**Figure 9-1: Out of Band emission at antenna terminals – GSM 850 Channel Lowest**

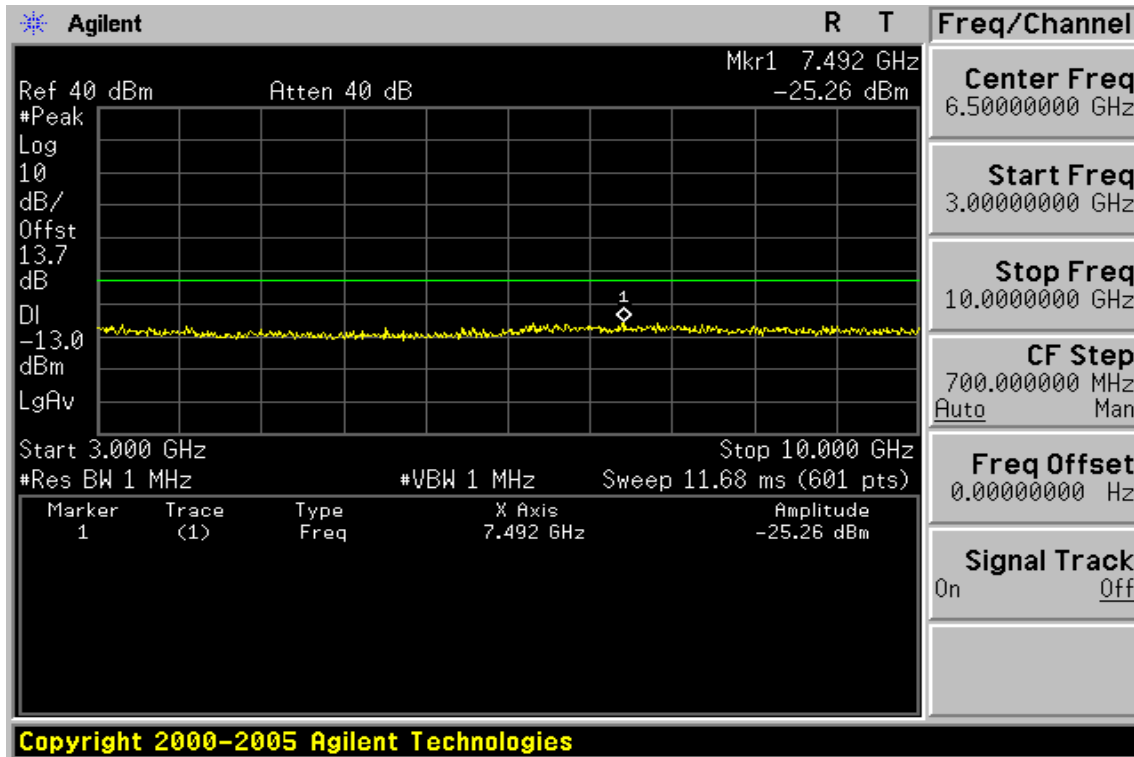
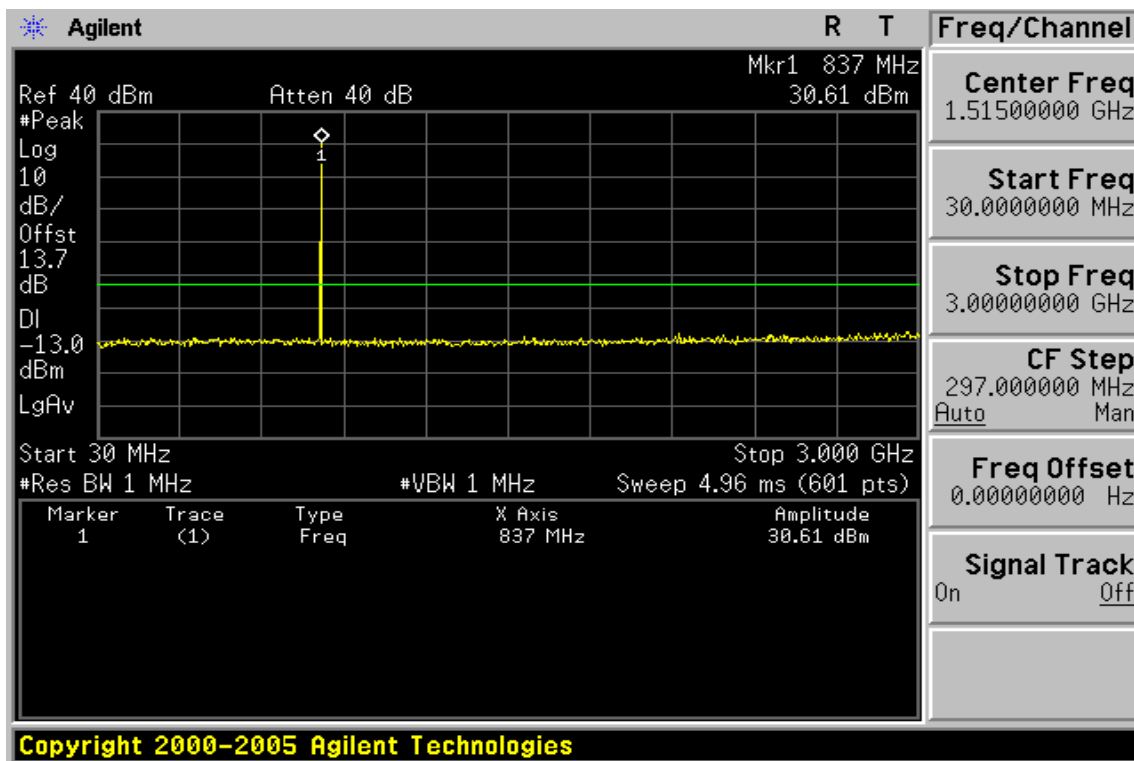


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Figure 9-2: Out of Band emission at antenna terminals – GSM 850 Channel Mid



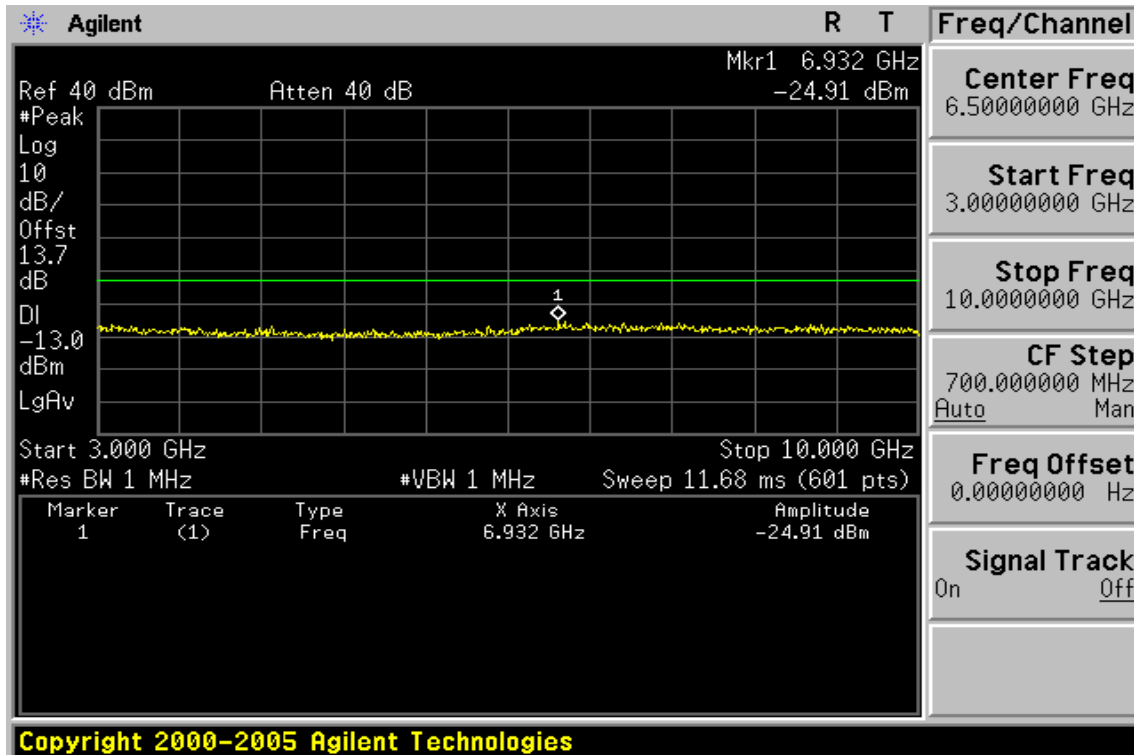
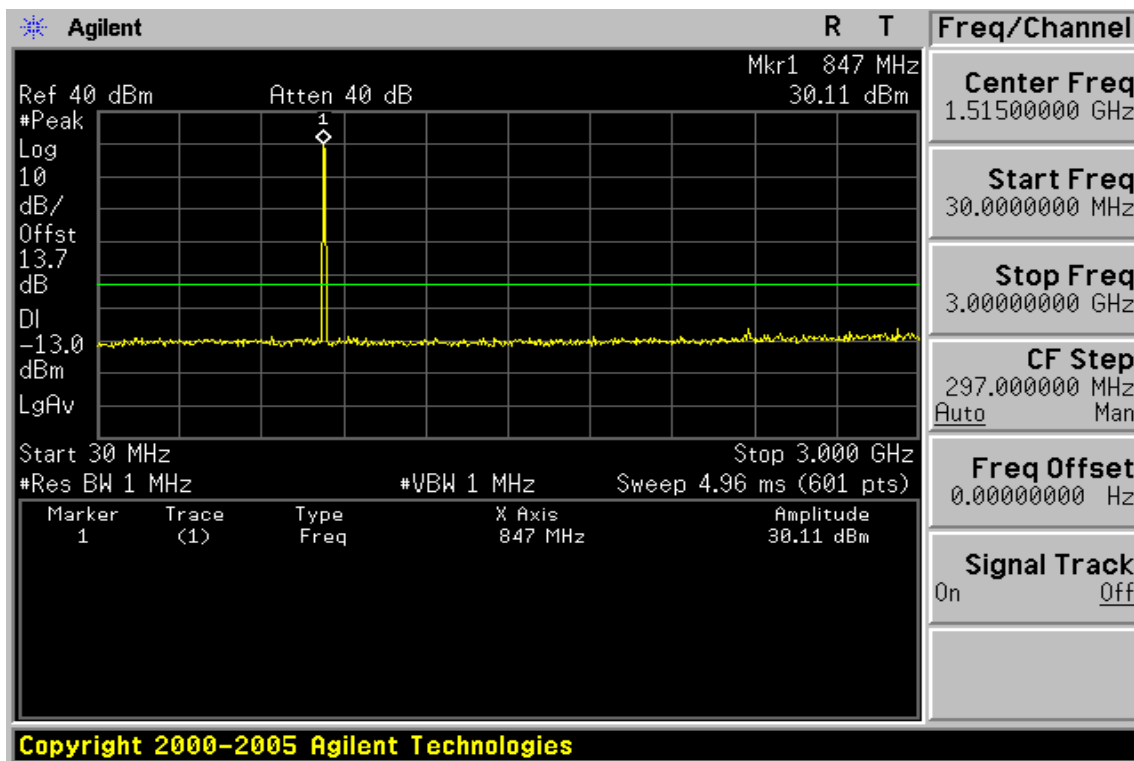
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Figure 9-3: Out of Band emission at antenna terminals – GSM 850 Channel Highest



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**Out of Band emission at antenna terminals – GSM 850**

Fundamental Frequency :824.2 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1648.40        | H               | ---            | -13.00       | ---                  |
| 2472.60        | H               | ---            | -13.00       | ---                  |
| 3296.80        | H               | ---            | -13.00       | ---                  |
| 4121.00        | H               | ---            | -13.00       | ---                  |
| 4945.20        | H               | ---            | -13.00       | ---                  |
| 5769.40        | H               | ---            | -13.00       | ---                  |
| 6593.60        | H               | ---            | -13.00       | ---                  |
| 7417.80        | H               | ---            | -13.00       | ---                  |
| 8028.00        | S               | -25.75         | -13.00       | 12.75                |
| 8242.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Nick  
Operation Mode :TX Mid

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1673.20        | H               | ---            | -13.00       | ---                  |
| 2509.80        | H               | ---            | -13.00       | ---                  |
| 3346.40        | H               | ---            | -13.00       | ---                  |
| 4183.00        | H               | ---            | -13.00       | ---                  |
| 5019.60        | H               | ---            | -13.00       | ---                  |
| 5856.20        | H               | ---            | -13.00       | ---                  |
| 6692.80        | H               | ---            | -13.00       | ---                  |
| 7492.00        | S               | -25.26         | -13.00       | 12.26                |
| 7529.40        | H               | ---            | -13.00       | ---                  |
| 8366.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :848.8MHz  
Operation Mode :TX High

Engineer :Nick

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1697.60        | H               | ---            | -13.00       | ---                  |
| 2546.40        | H               | ---            | -13.00       | ---                  |
| 3395.20        | H               | ---            | -13.00       | ---                  |
| 4244.00        | H               | ---            | -13.00       | ---                  |
| 5092.80        | H               | ---            | -13.00       | ---                  |
| 5941.60        | H               | ---            | -13.00       | ---                  |
| 6790.40        | H               | ---            | -13.00       | ---                  |
| 6932.00        | S               | -24.91         | -13.00       | 11.91                |
| 7639.20        | H               | ---            | -13.00       | ---                  |
| 8488.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

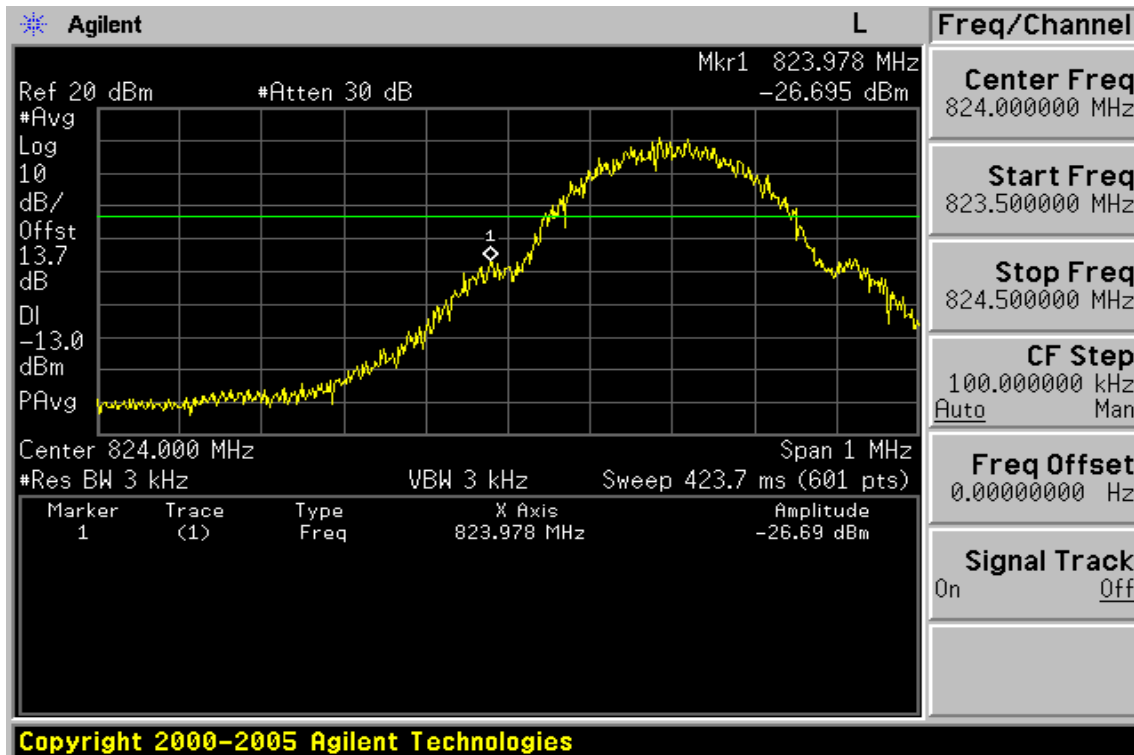
“---” : denotes Noise Floor.

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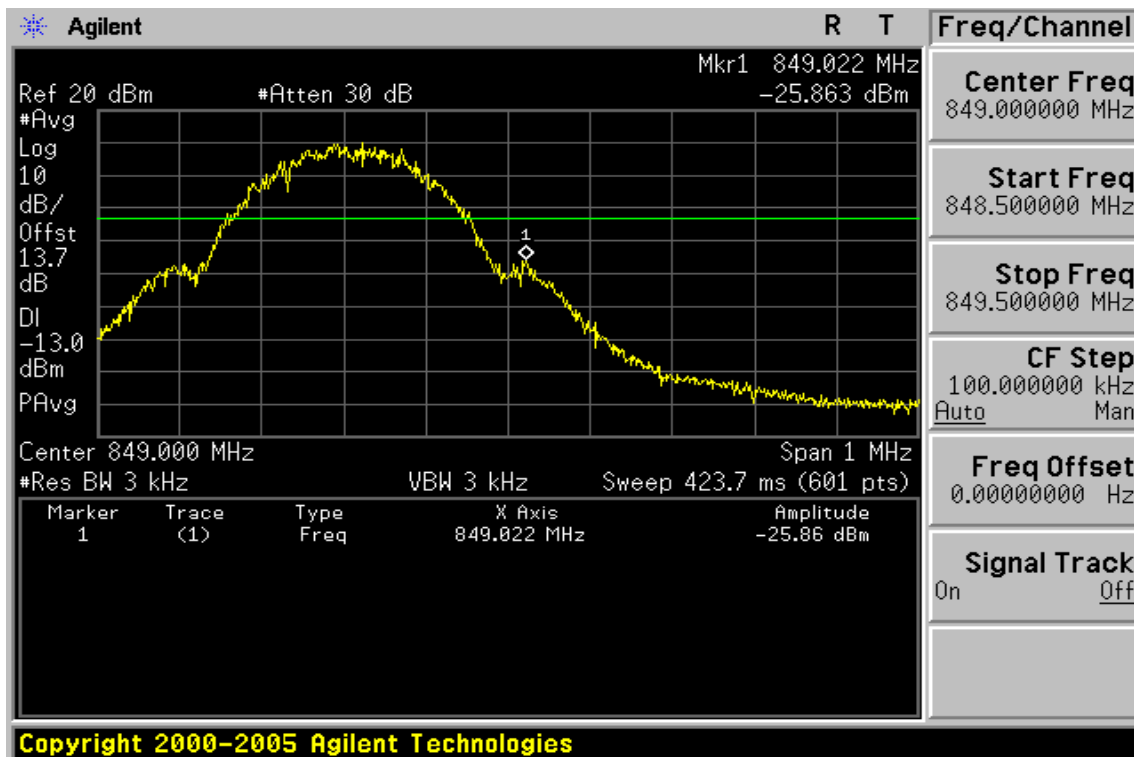
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**Figure 9-4: Band edge emission at antenna terminals – GSM 850 Channel Lowest**



**Figure 9-5: Band edge emission at antenna terminals – GSM 850 Channel Highest**



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**Band edge emission at antenna terminals – GSM 850 Low & High**

Test Mode

GSM 850

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 823.978      | -26.69         | -13.00       | 13.69                |
| 849.022      | -25.86         | -13.00       | 12.86                |

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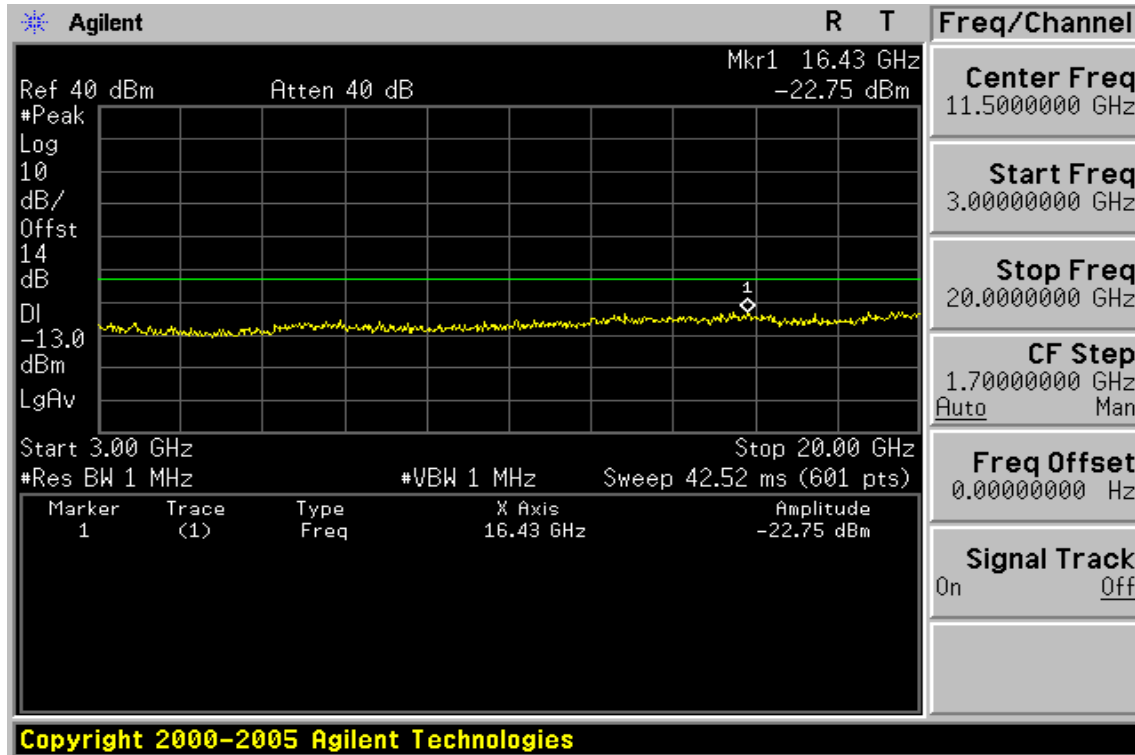
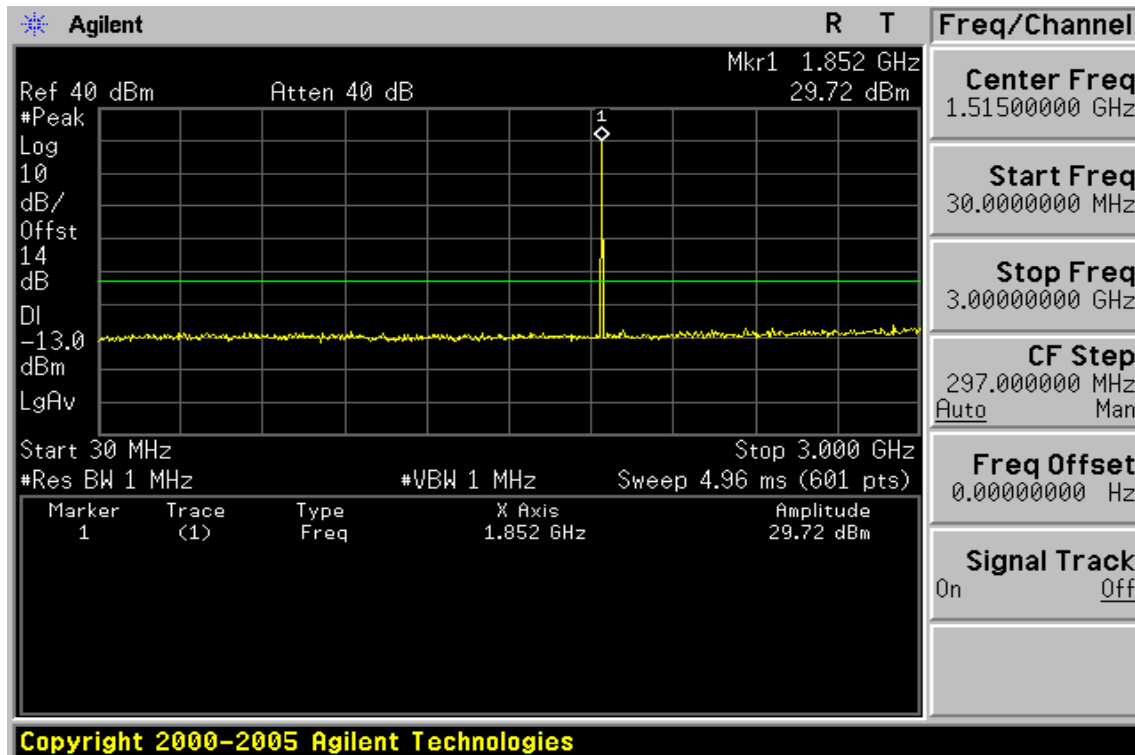
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Figure 9-6: Out of Band emission at antenna terminals – GSM 1900 Channel Lowest

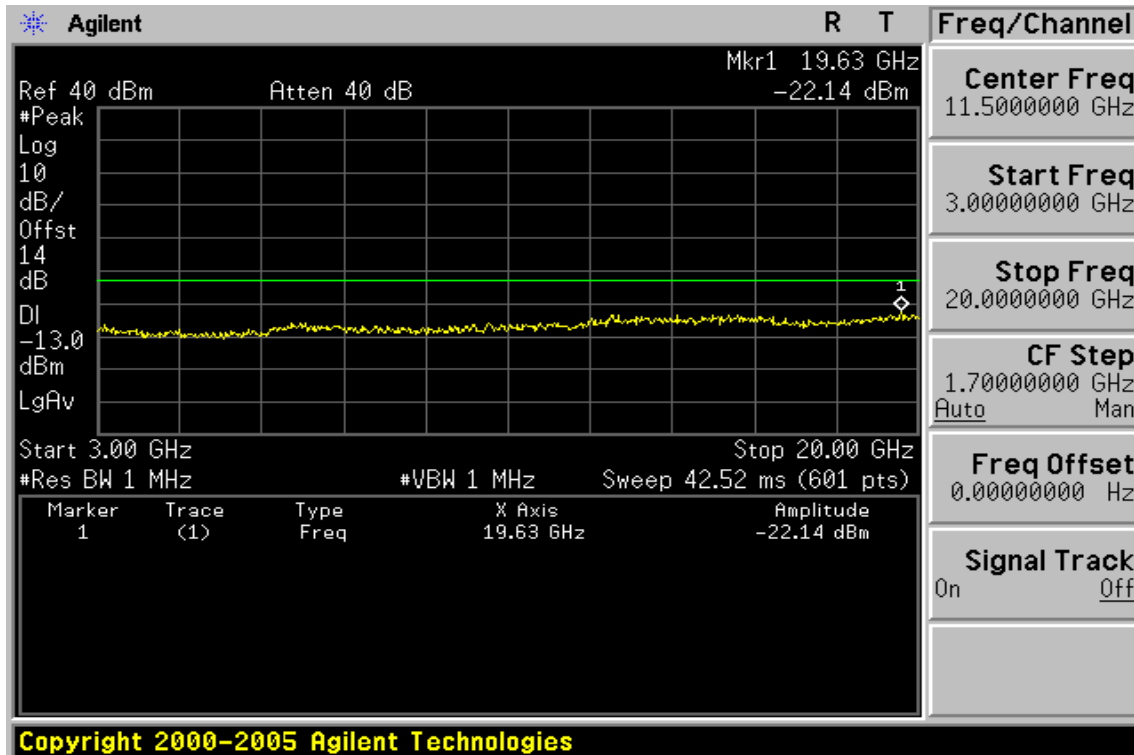
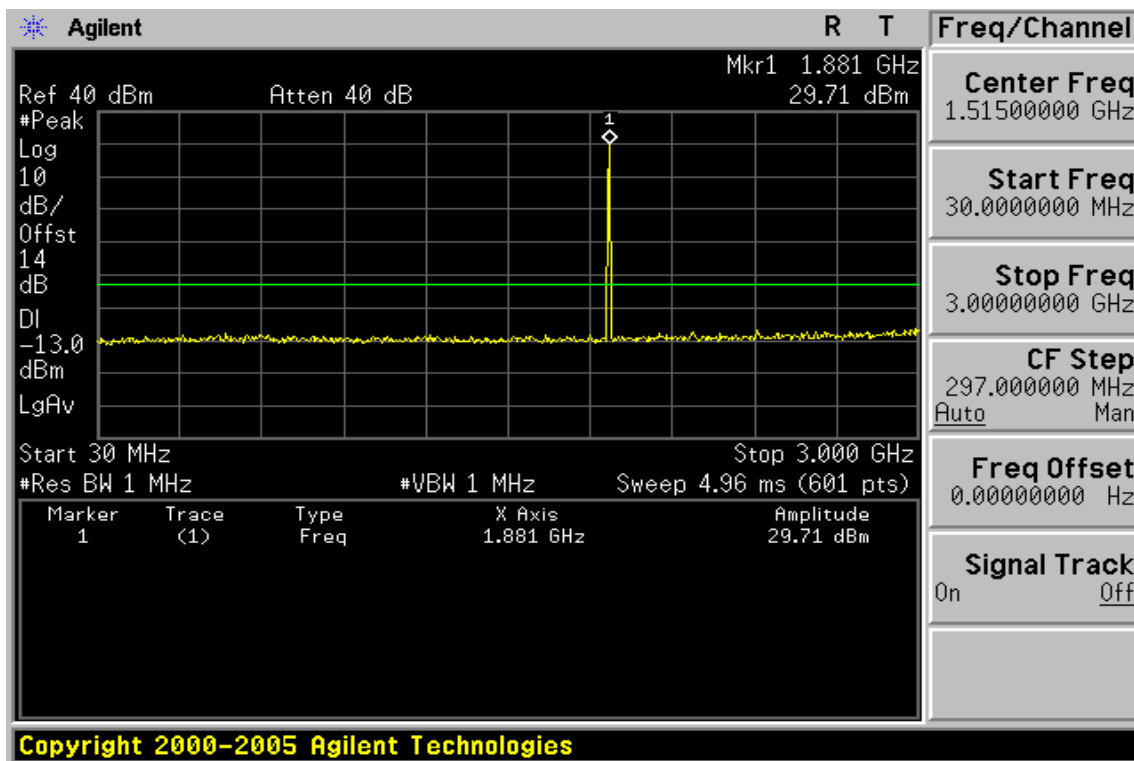


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Figure 9-7: Out of Band emission at antenna terminals – GSM 1900 Channel Mid



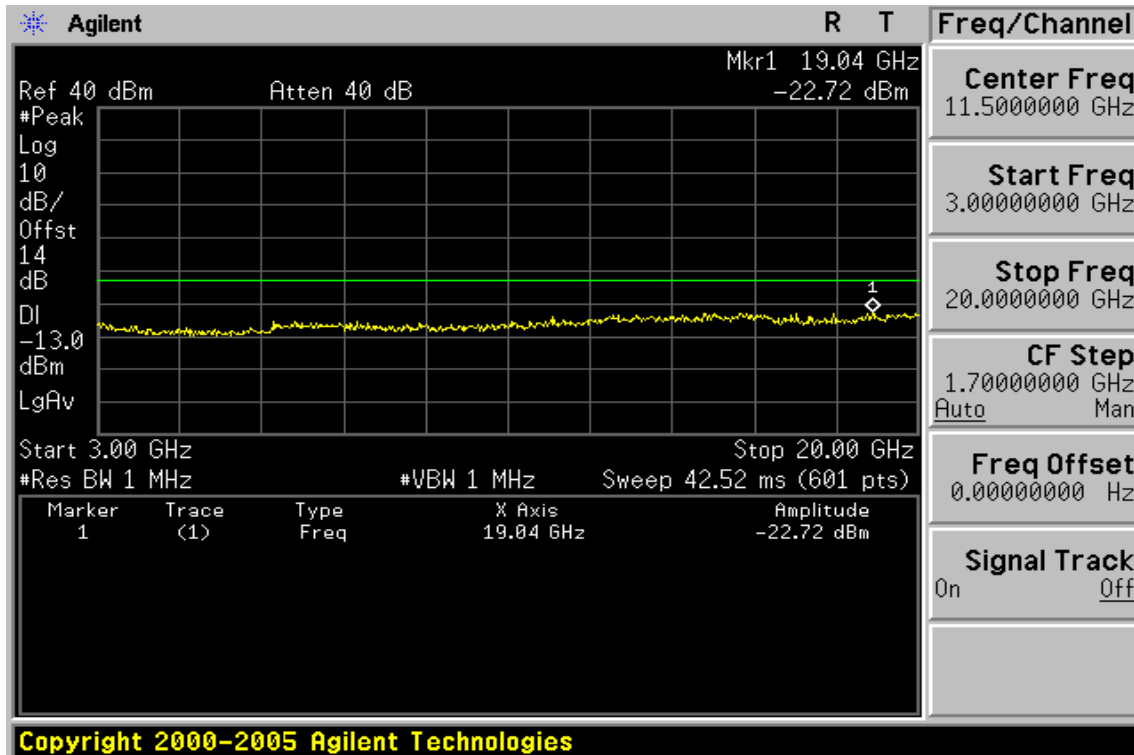
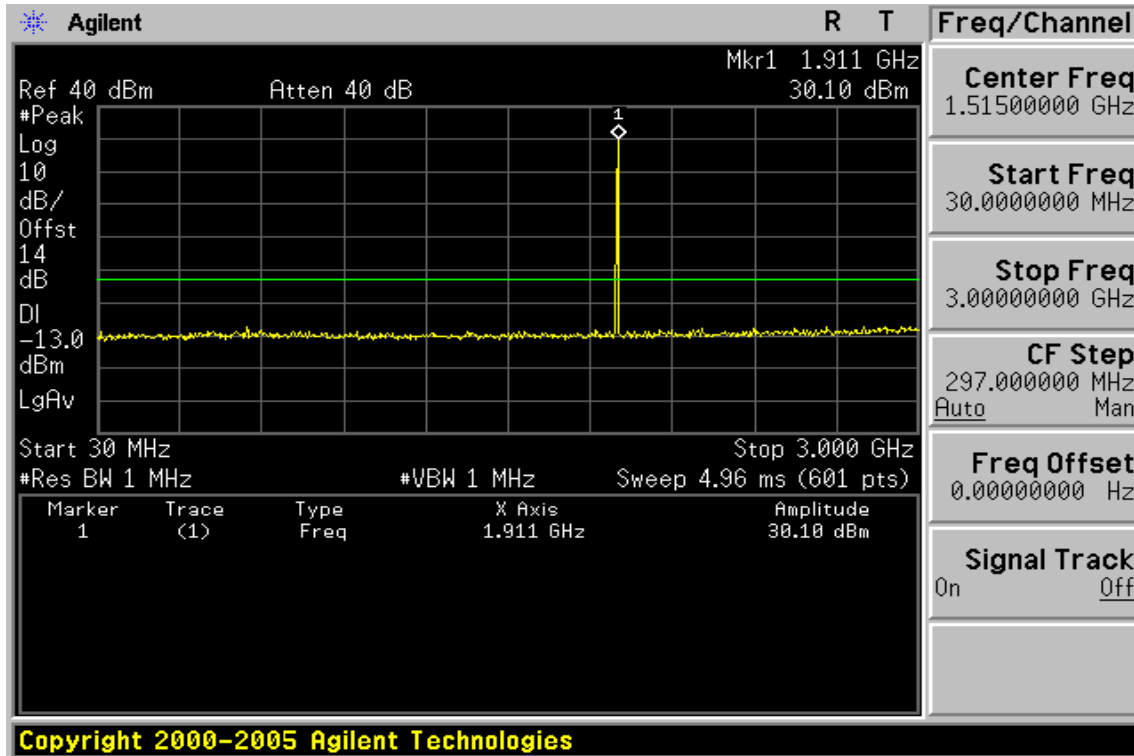
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**Figure 9-8: Out of Band emission at antenna terminals – GSM 1900 Channel Highest**



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**Out of Band emission at antenna terminals – GSM 1900**

Fundamental Frequency :1850.2 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3700.40        | H               | ---            | -13.00       | ---                  |
| 5550.60        | H               | ---            | -13.00       | ---                  |
| 7400.80        | H               | ---            | -13.00       | ---                  |
| 9251.00        | H               | ---            | -13.00       | ---                  |
| 11101.20       | H               | ---            | -13.00       | ---                  |
| 12951.40       | H               | ---            | -13.00       | ---                  |
| 14801.60       | H               | ---            | -13.00       | ---                  |
| 16430.00       | S               | -22.75         | -13.00       | 9.75                 |
| 16651.80       | H               | ---            | -13.00       | ---                  |
| 18502.00       | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick  
Operation Mode :TX Mid

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3760.00        | H               | ---            | -13.00       | ---                  |
| 5640.00        | H               | ---            | -13.00       | ---                  |
| 7520.00        | H               | ---            | -13.00       | ---                  |
| 9400.00        | H               | ---            | -13.00       | ---                  |
| 11280.00       | H               | ---            | -13.00       | ---                  |
| 13160.00       | H               | ---            | -13.00       | ---                  |
| 15040.00       | H               | ---            | -13.00       | ---                  |
| 16920.00       | H               | ---            | -13.00       | ---                  |
| 18800.00       | H               | ---            | -13.00       | ---                  |
| 19630.00       | S               | -22.14         | -13.00       | 9.14                 |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1909.8 MHz Engineer :Nick  
Operation Mode :TX High

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3819.60        | H               | ---            | -13.00       | ---                  |
| 5729.40        | H               | ---            | -13.00       | ---                  |
| 7639.20        | H               | ---            | -13.00       | ---                  |
| 9549.00        | H               | ---            | -13.00       | ---                  |
| 11458.80       | H               | ---            | -13.00       | ---                  |
| 13368.60       | H               | ---            | -13.00       | ---                  |
| 15278.40       | H               | ---            | -13.00       | ---                  |
| 17188.20       | H               | ---            | -13.00       | ---                  |
| 19040.00       | S               | -22.72         | -13.00       | 9.72                 |
| 19098.00       | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

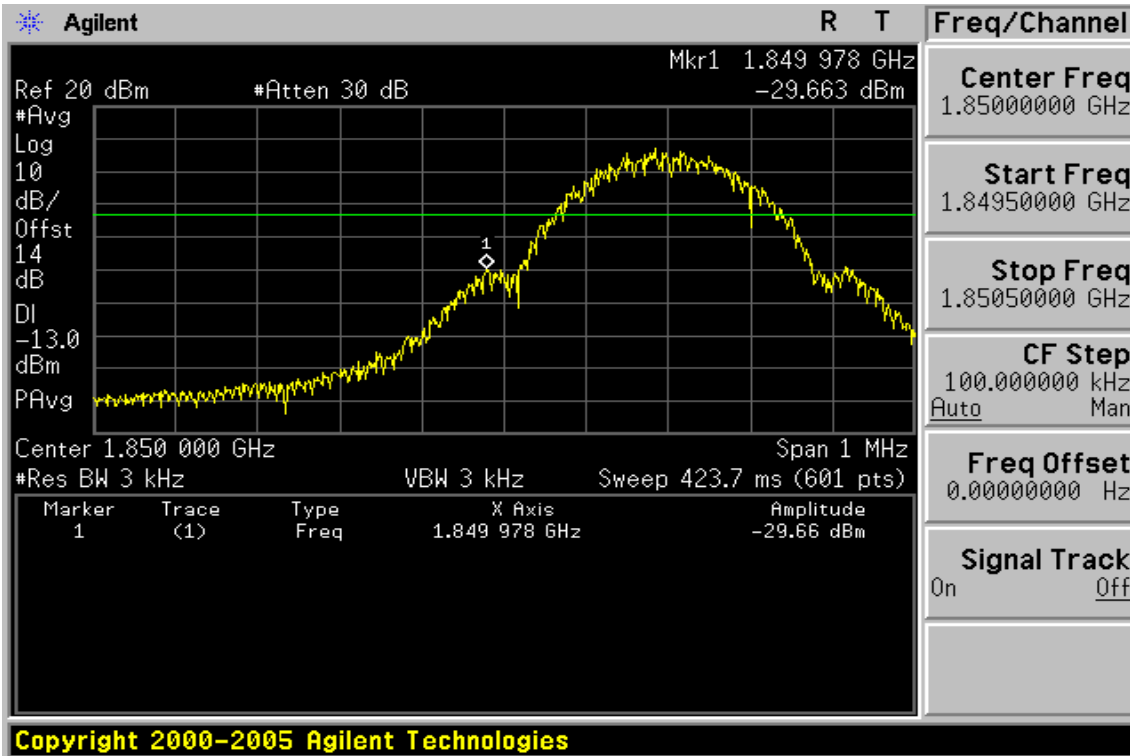
“---” : denotes Noise Floor.

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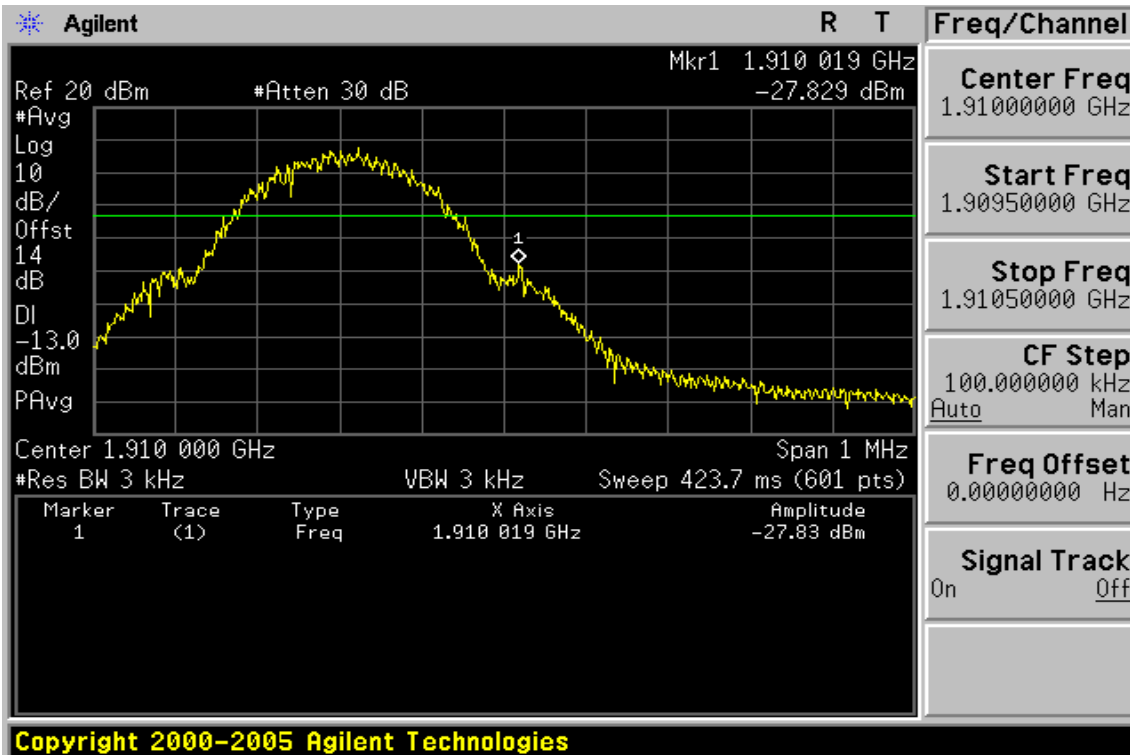
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**Figure 9-9: Band edge emission at antenna terminals – GSM 1900 Channel Lowest**



**Figure 9-10: Band edge emission at antenna terminals – GSM 1900 Channel Highest**



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**Band edge emission at antenna terminals – GSM 1900 Low & High**

Test Mode

GSM 1900

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 1849.978     | -29.66         | -13.00       | 16.66                |
| 1910.019     | -27.83         | -13.00       | 14.83                |

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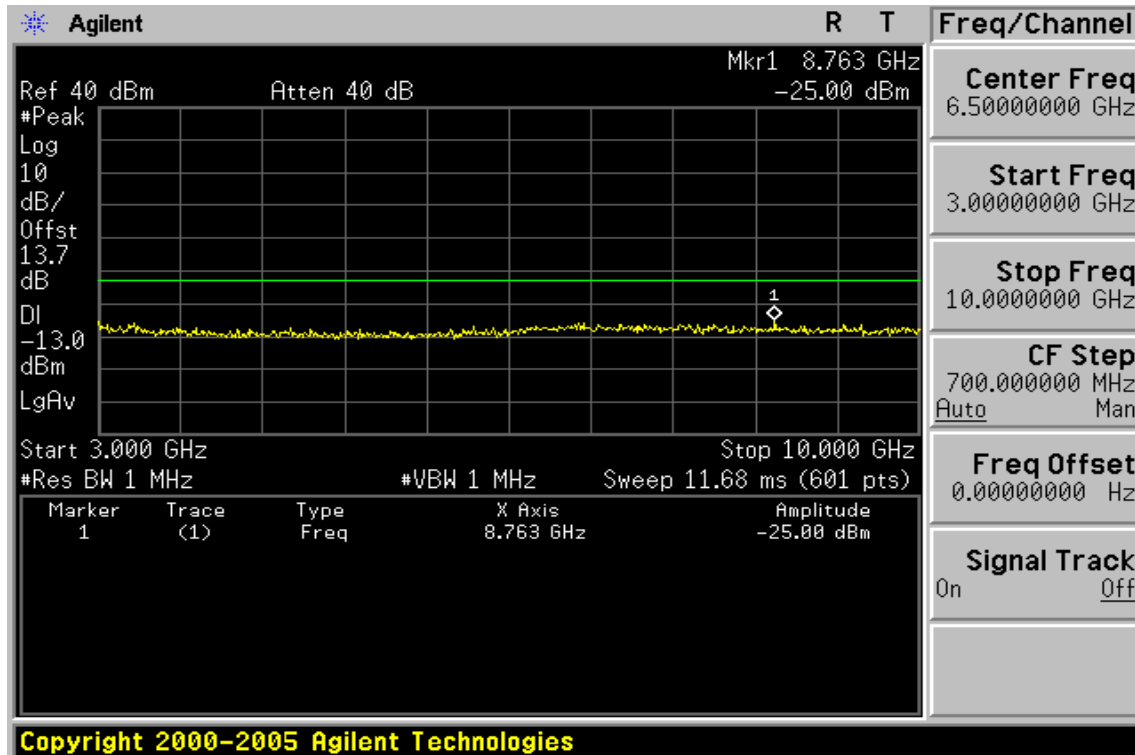
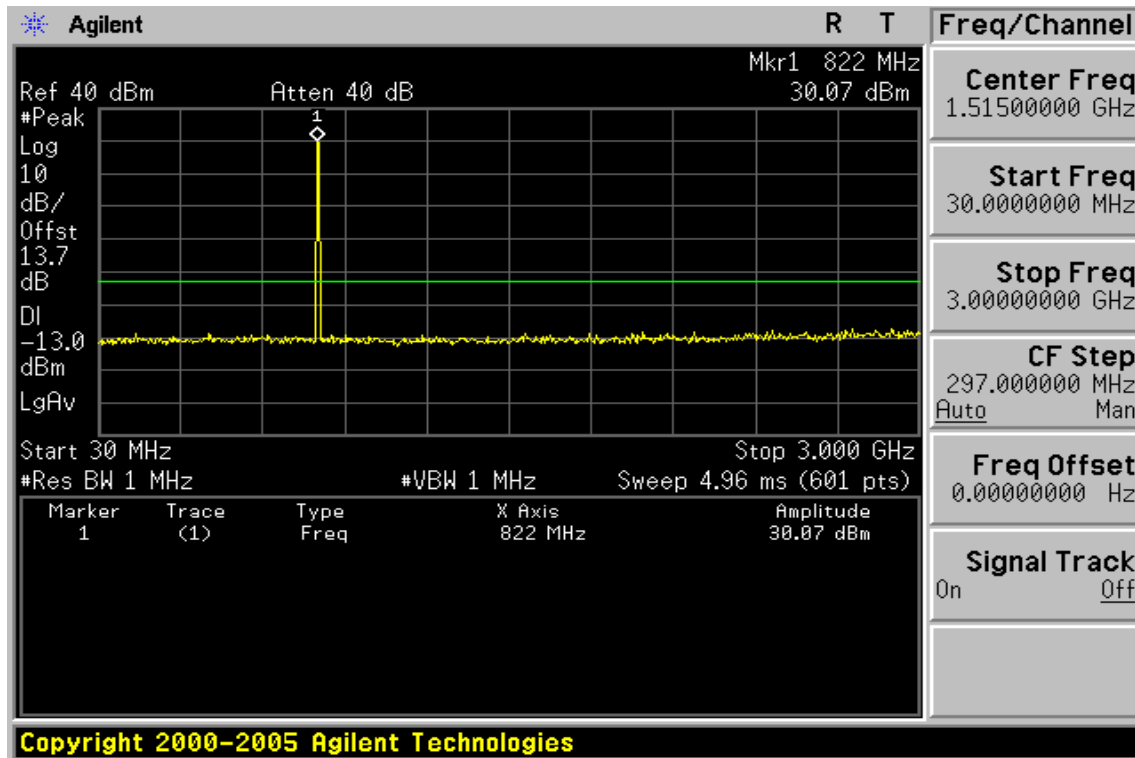
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Figure 9-11: Out of Band emission at antenna terminals – GPRS850 Channel Lowest

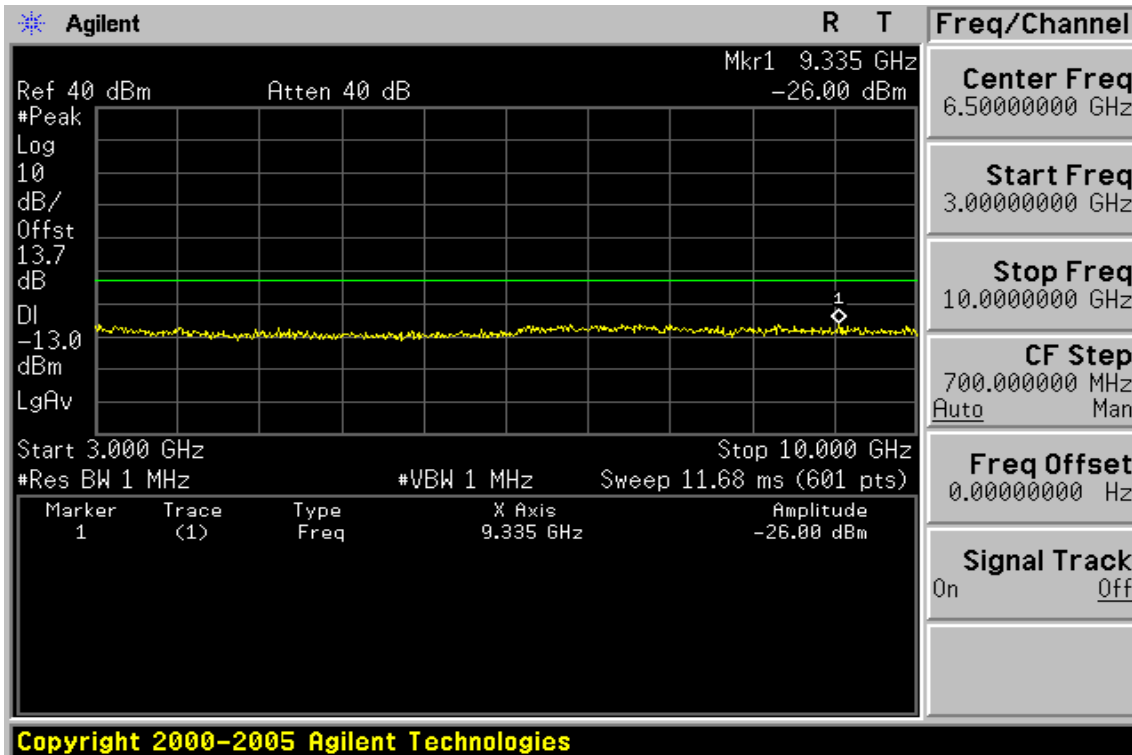
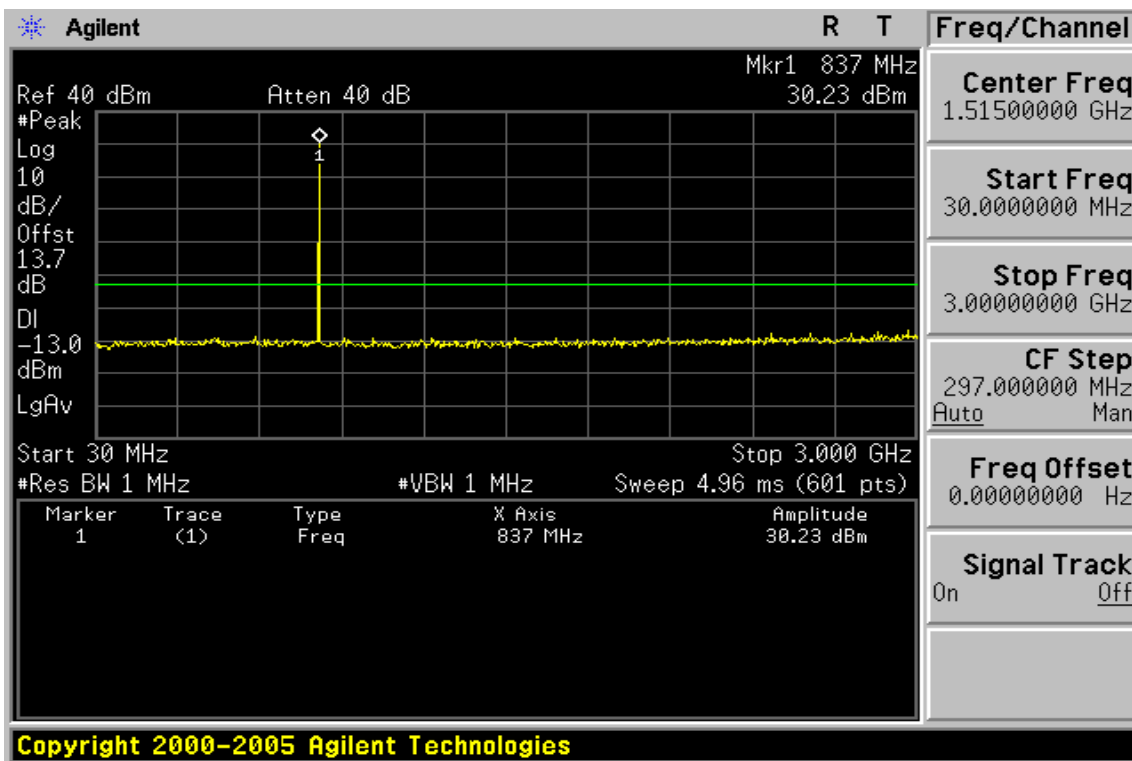


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Figure 9-12: Out of Band emission at antenna terminals – GPRS 850 Channel Mid



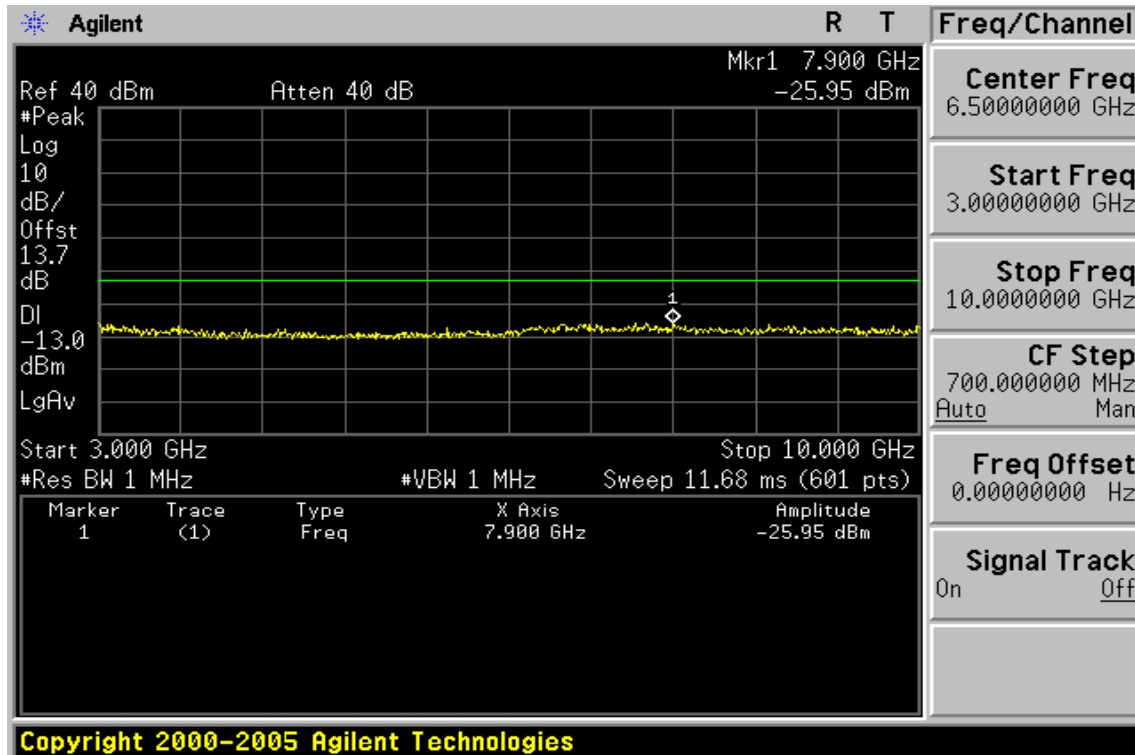
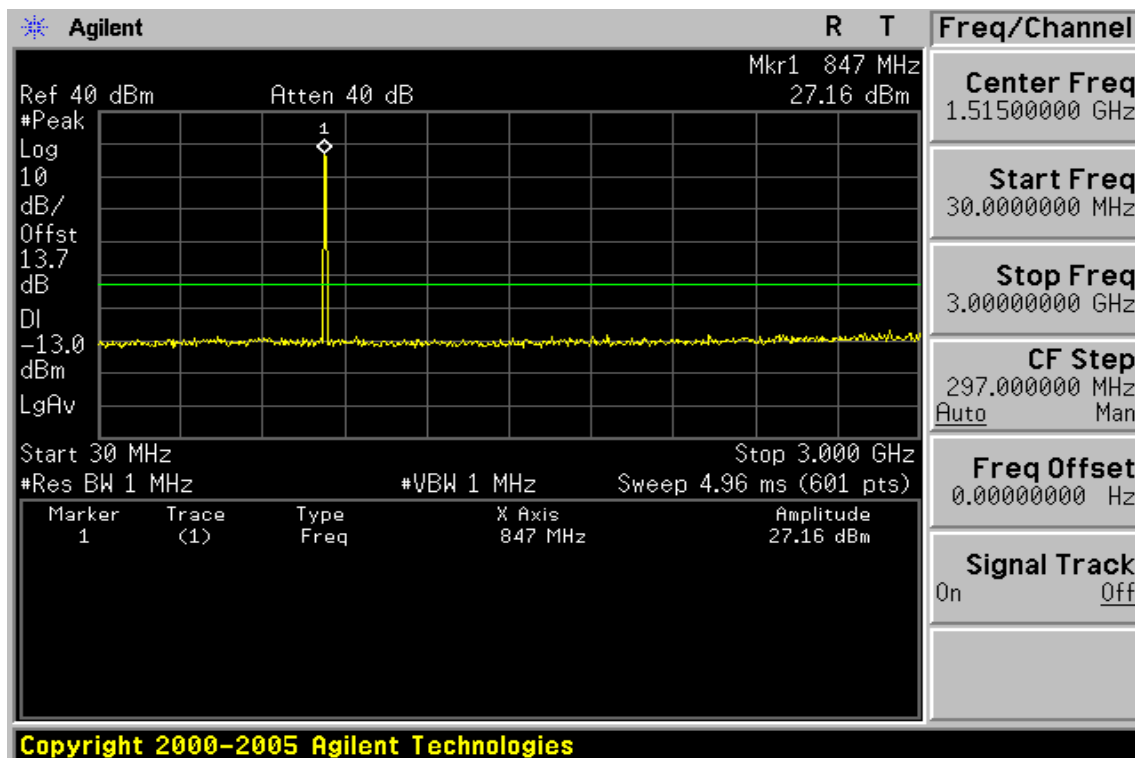
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**Figure 9-13: Out of Band emission at antenna terminals – GPRS 850 Channel Highest**



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**Out of Band emission at antenna terminals – GPRS 850**

Fundamental Frequency :824.2 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1648.40        | H               | ---            | -13.00       | ---                  |
| 2472.60        | H               | ---            | -13.00       | ---                  |
| 3296.80        | H               | ---            | -13.00       | ---                  |
| 4121.00        | H               | ---            | -13.00       | ---                  |
| 4945.20        | H               | ---            | -13.00       | ---                  |
| 5769.40        | H               | ---            | -13.00       | ---                  |
| 6593.60        | H               | ---            | -13.00       | ---                  |
| 7417.80        | H               | ---            | -13.00       | ---                  |
| 8242.00        | H               | ---            | -13.00       | ---                  |
| 8763.00        | S               | -25            | -13.00       | 12.00                |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Nick  
Operation Mode :TX Mid

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1673.20        | H               | ---            | -13.00       | ---                  |
| 2509.80        | H               | ---            | -13.00       | ---                  |
| 3346.40        | H               | ---            | -13.00       | ---                  |
| 4183.00        | H               | ---            | -13.00       | ---                  |
| 5019.60        | H               | ---            | -13.00       | ---                  |
| 5856.20        | H               | ---            | -13.00       | ---                  |
| 6692.80        | H               | ---            | -13.00       | ---                  |
| 7529.40        | H               | ---            | -13.00       | ---                  |
| 8366.00        | H               | ---            | -13.00       | ---                  |
| 9335.00        | S               | -26            | -13.00       | 13.00                |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :848.8MHz  
Operation Mode :TX High

Engineer :Nick

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1697.60        | H               | ---            | -13.00       | ---                  |
| 2546.40        | H               | ---            | -13.00       | ---                  |
| 3395.20        | H               | ---            | -13.00       | ---                  |
| 4244.00        | H               | ---            | -13.00       | ---                  |
| 5092.80        | H               | ---            | -13.00       | ---                  |
| 5941.60        | H               | ---            | -13.00       | ---                  |
| 6790.40        | H               | ---            | -13.00       | ---                  |
| 7639.20        | H               | ---            | -13.00       | ---                  |
| 7900.00        | S               | -25.95         | -13.00       | 12.95                |
| 8488.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Figure 9-14: Band edge emission at antenna terminals – GPRS 850 Channel Lowest

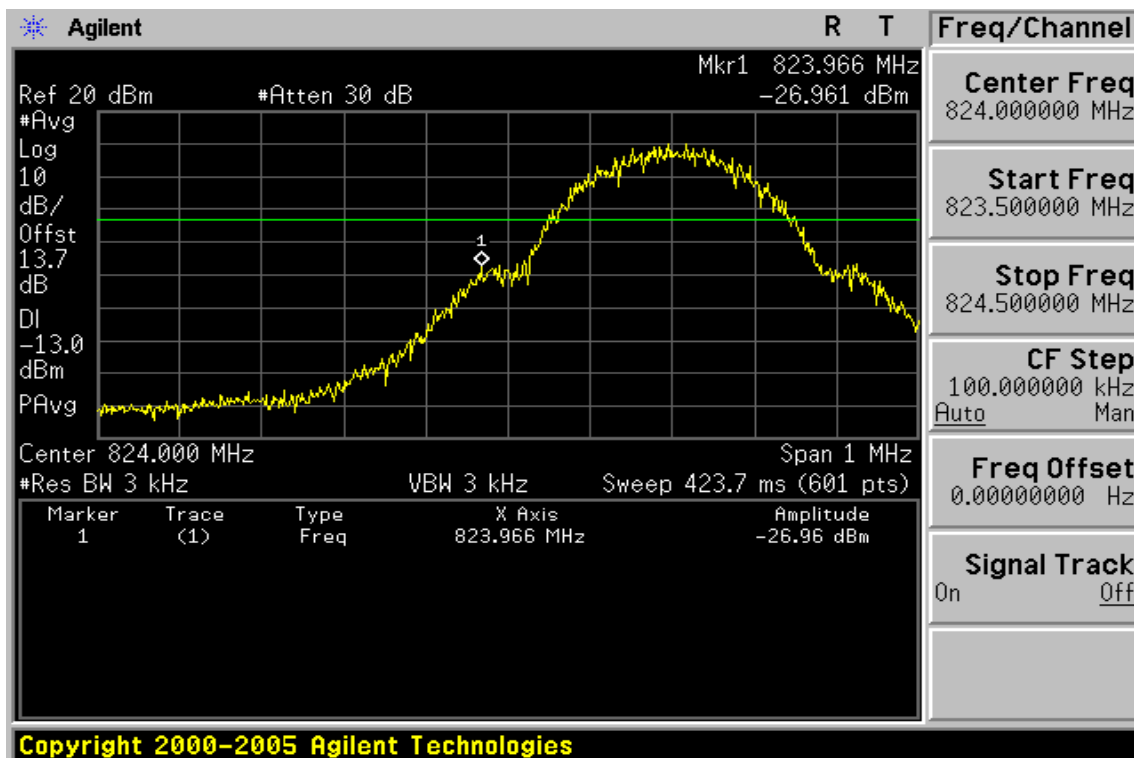
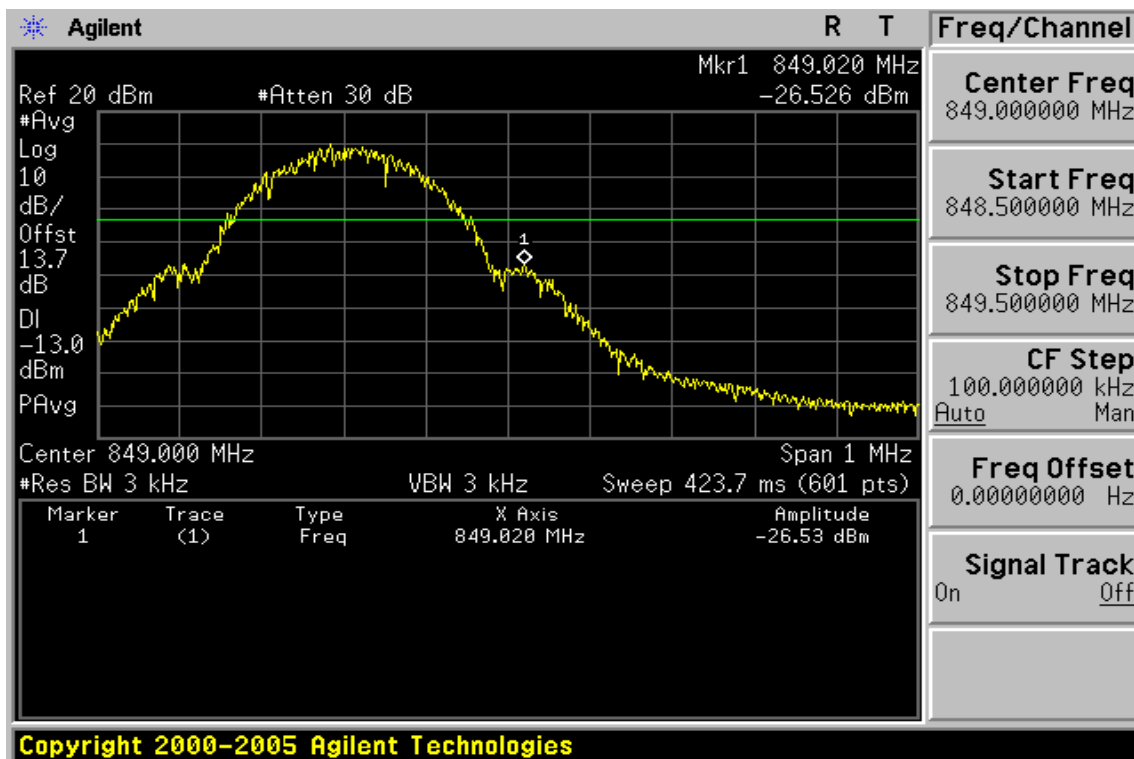


Figure 9-15: Band edge emission at antenna terminals – GPRS 850 Channel Highest



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**Band edge emission at antenna terminals – GPRS 850 Low & High**

Test Mode

GPRS 850

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 823.966      | -26.96         | -13.00       | 13.96                |
| 849.020      | -26.53         | -13.00       | 13.53                |

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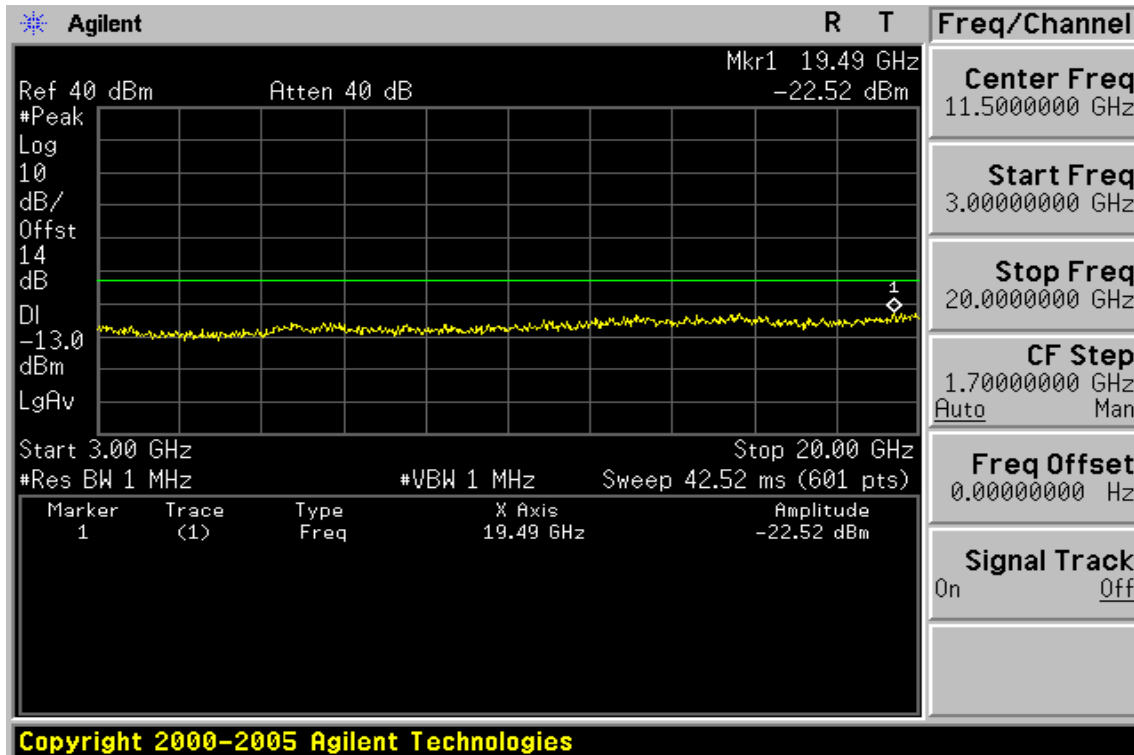
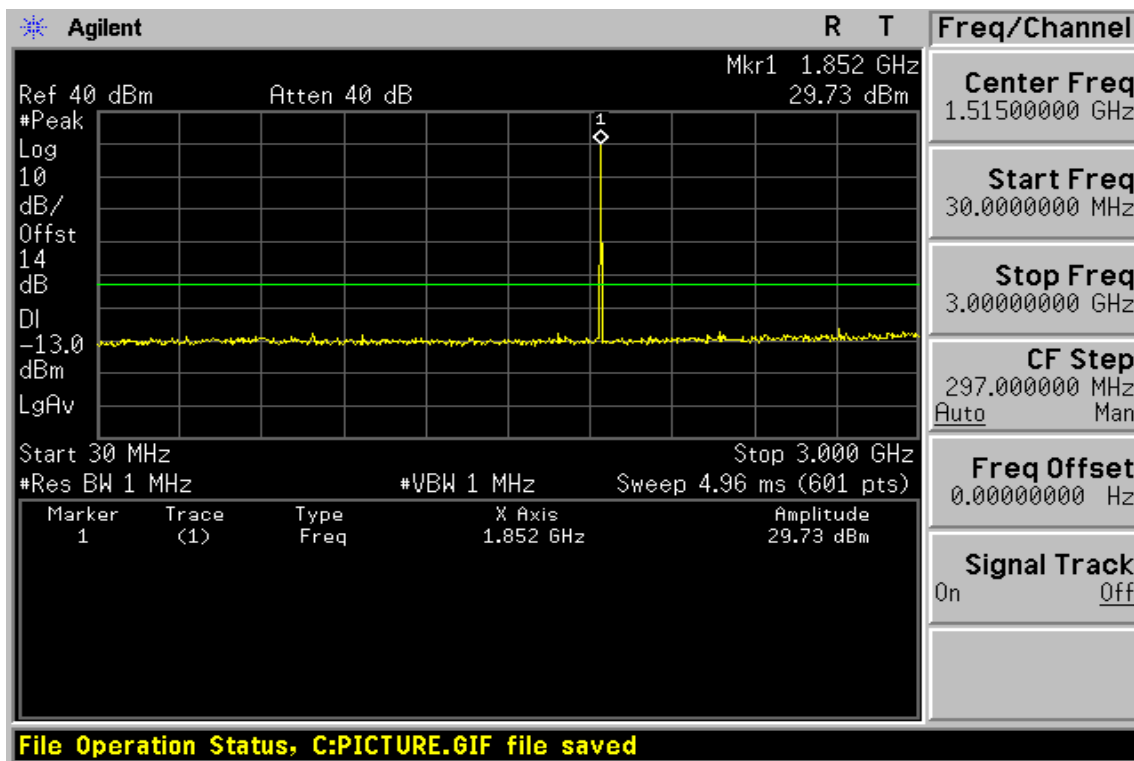
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Figure 9-16: Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest

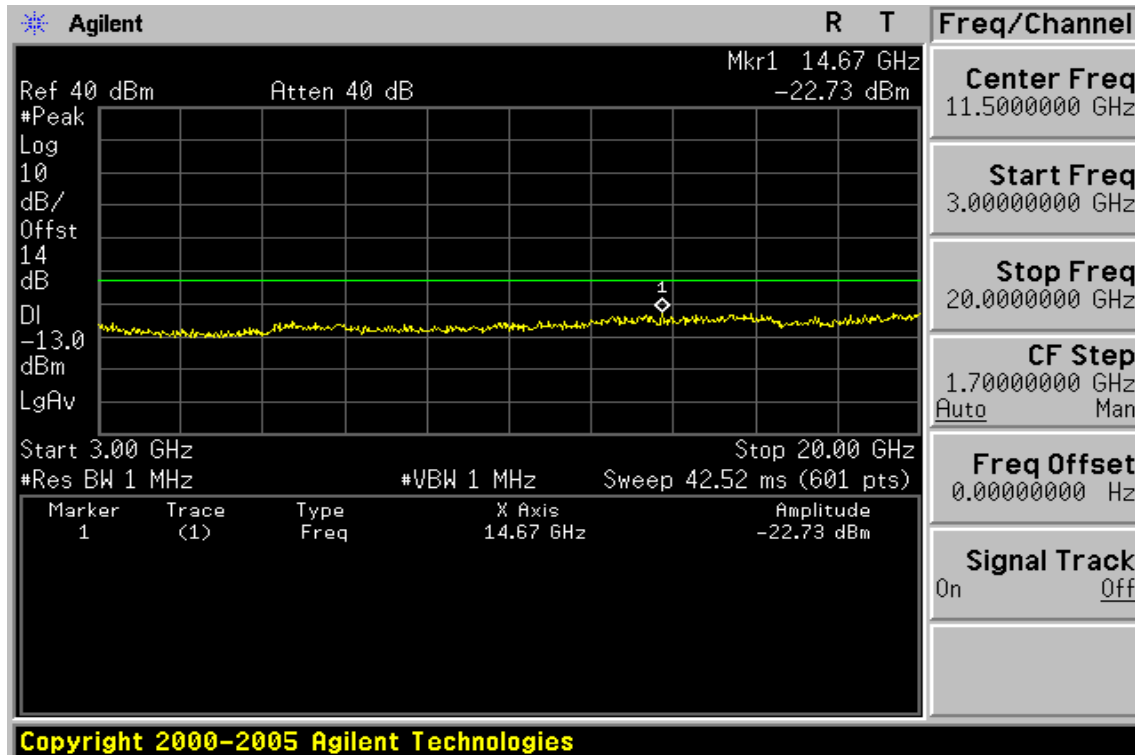
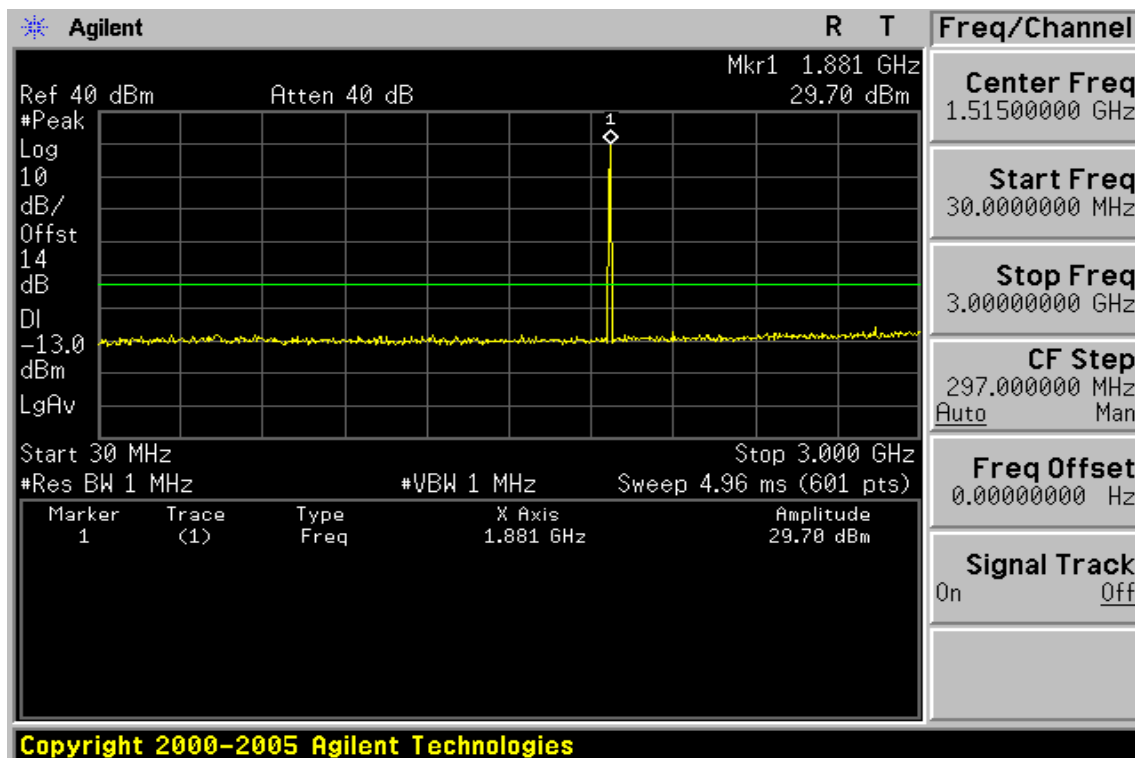


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Figure 9-17: Out of Band emission at antenna terminals – GPRS 1900 Channel Mid



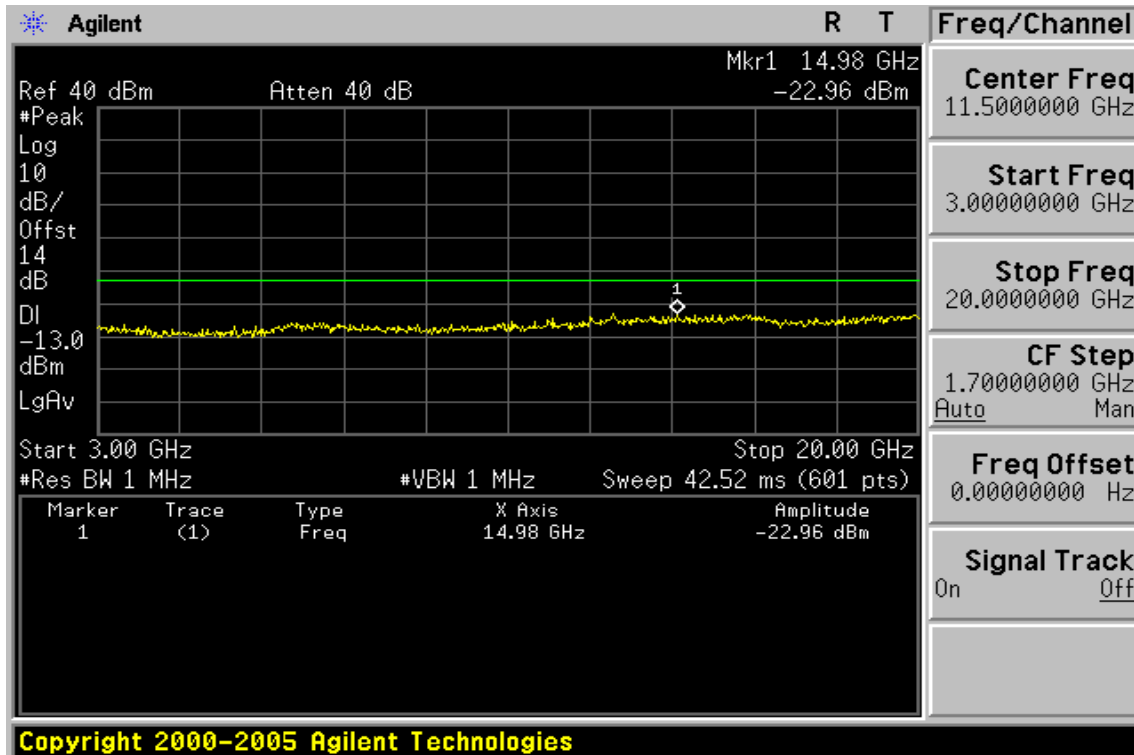
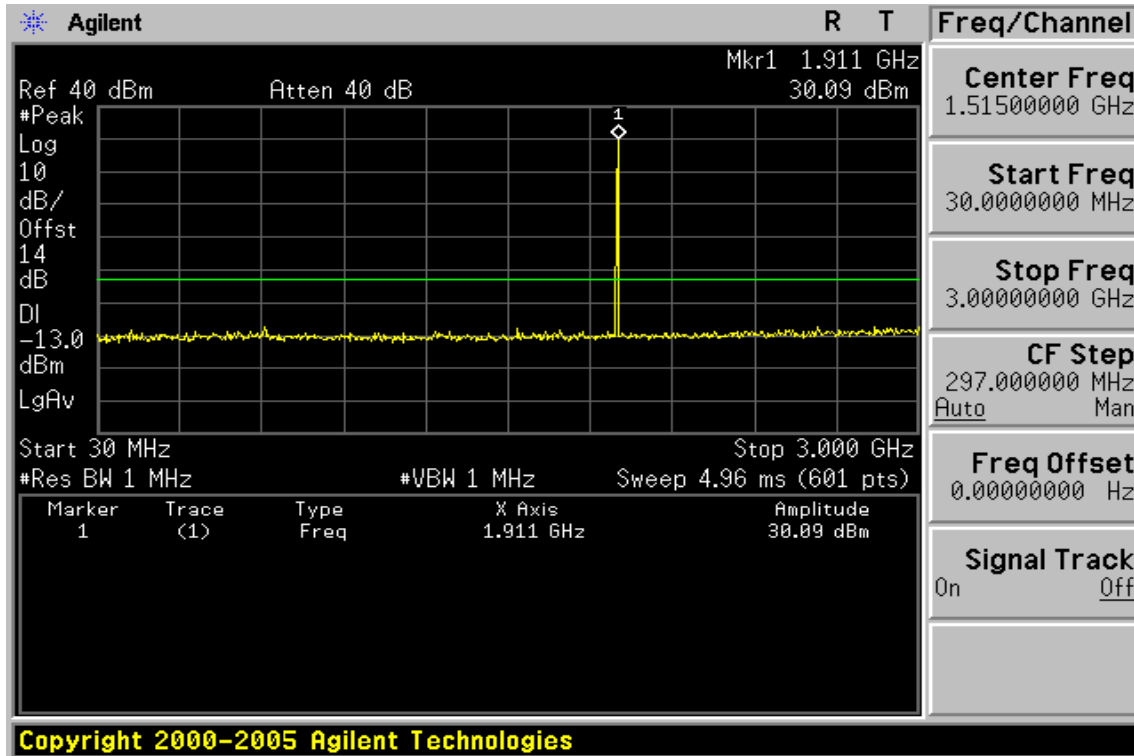
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Figure 9-18: Out of Band emission at antenna terminals – GPRS 1900 Channel Highest



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**Out of Band emission at antenna terminals – GPRS 1900**

Fundamental Frequency :1850.2 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3700.40        | H               | ---            | -13.00       | ---                  |
| 5550.60        | H               | ---            | -13.00       | ---                  |
| 7400.80        | H               | ---            | -13.00       | ---                  |
| 9251.00        | H               | ---            | -13.00       | ---                  |
| 11101.20       | H               | ---            | -13.00       | ---                  |
| 12951.40       | H               | ---            | -13.00       | ---                  |
| 14801.60       | H               | ---            | -13.00       | ---                  |
| 16651.80       | H               | ---            | -13.00       | ---                  |
| 18502.00       | H               | ---            | -13.00       | ---                  |
| 19490.00       | S               | -22.52         | -13.00       | 9.52                 |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick  
Operation Mode :TX Mid

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3760.00        | H               | ---            | -13.00       | ---                  |
| 5640.00        | H               | ---            | -13.00       | ---                  |
| 7520.00        | H               | ---            | -13.00       | ---                  |
| 9400.00        | H               | ---            | -13.00       | ---                  |
| 11280.00       | H               | ---            | -13.00       | ---                  |
| 13160.00       | H               | ---            | -13.00       | ---                  |
| 14670.00       | S               | -22.73         | -13.00       | 9.73                 |
| 15040.00       | H               | ---            | -13.00       | ---                  |
| 16920.00       | H               | ---            | -13.00       | ---                  |
| 18800.00       | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1909.8 MHz Engineer :Nick  
Operation Mode :TX High

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3819.60        | H               | ---            | -13.00       | ---                  |
| 5729.40        | H               | ---            | -13.00       | ---                  |
| 7639.20        | H               | ---            | -13.00       | ---                  |
| 9549.00        | H               | ---            | -13.00       | ---                  |
| 11458.80       | H               | ---            | -13.00       | ---                  |
| 13368.60       | H               | ---            | -13.00       | ---                  |
| 14980.00       | S               | -22.96         | -13.00       | 9.96                 |
| 15278.40       | H               | ---            | -13.00       | ---                  |
| 17188.20       | H               | ---            | -13.00       | ---                  |
| 19098.00       | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Figure 9-19: Band edge emission at antenna terminals – GPRS 1900 Channel Lowest

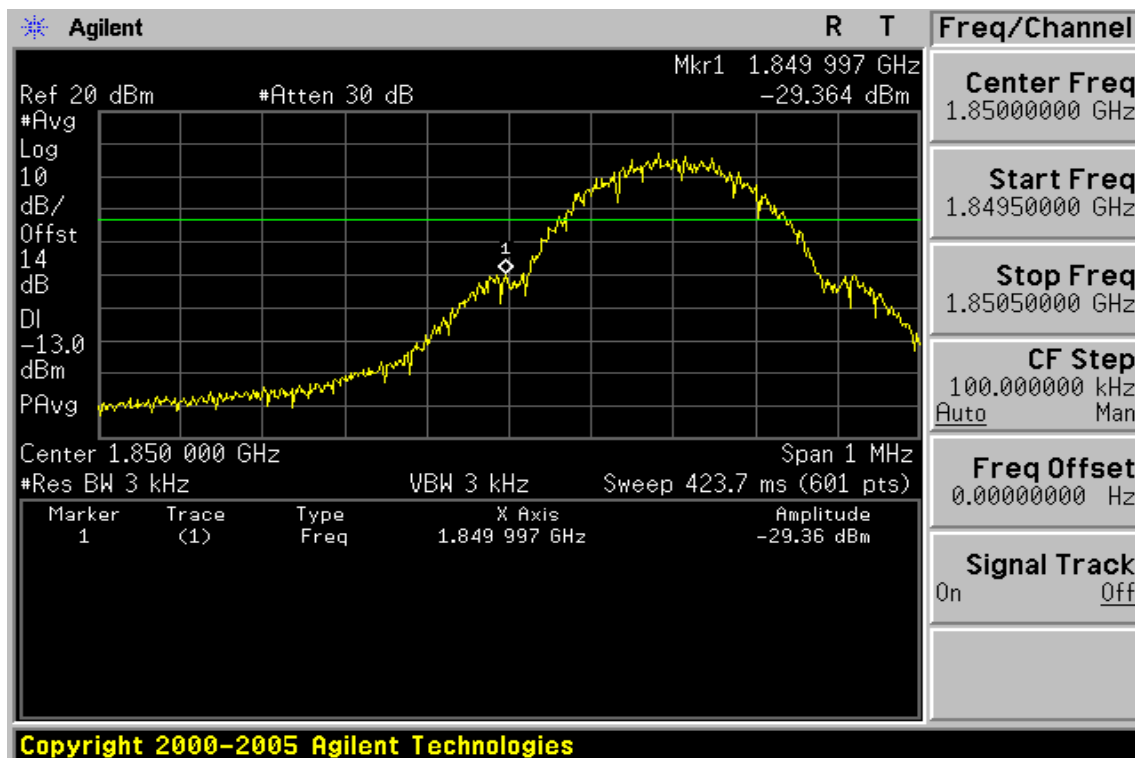
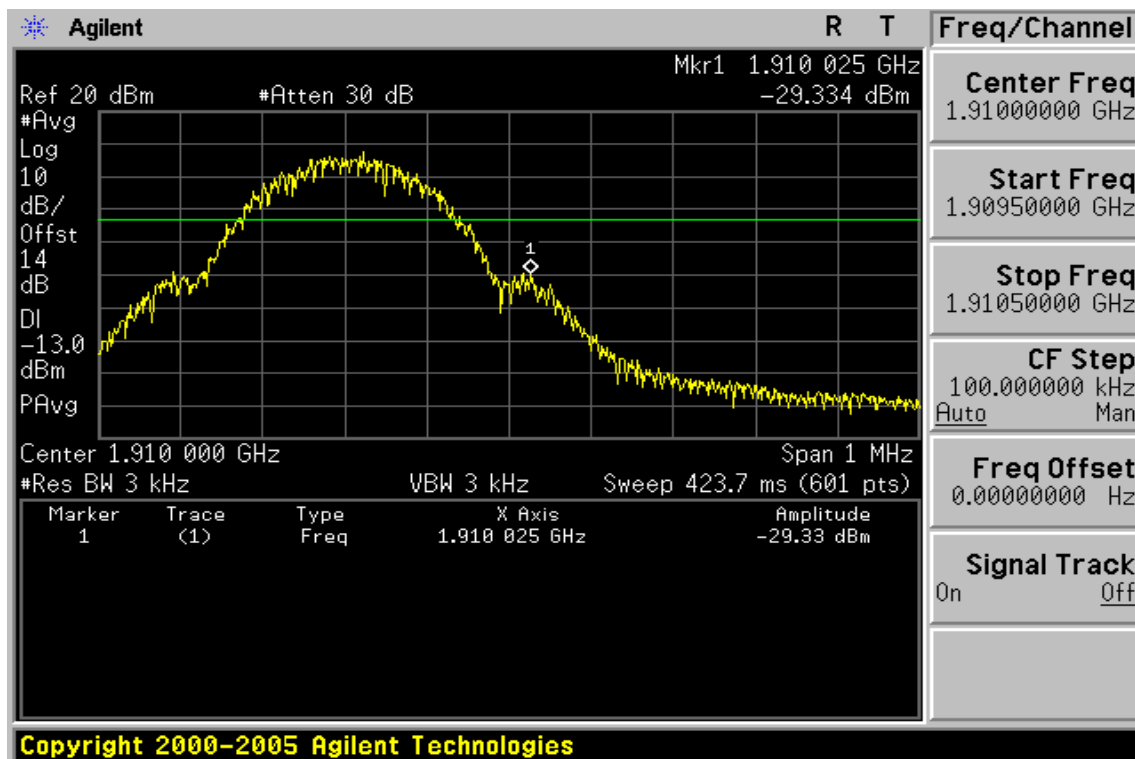


Figure 9-20: Band edge emission at antenna terminals – GPRS 1900 Channel Highest



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**Band edge emission at antenna terminals – GPRS 1900 Low & High**

Test Mode

GPRS 1900

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 1849.997     | -29.36         | -13.00       | 16.36                |
| 1910.025     | -29.33         | -13.00       | 16.33                |

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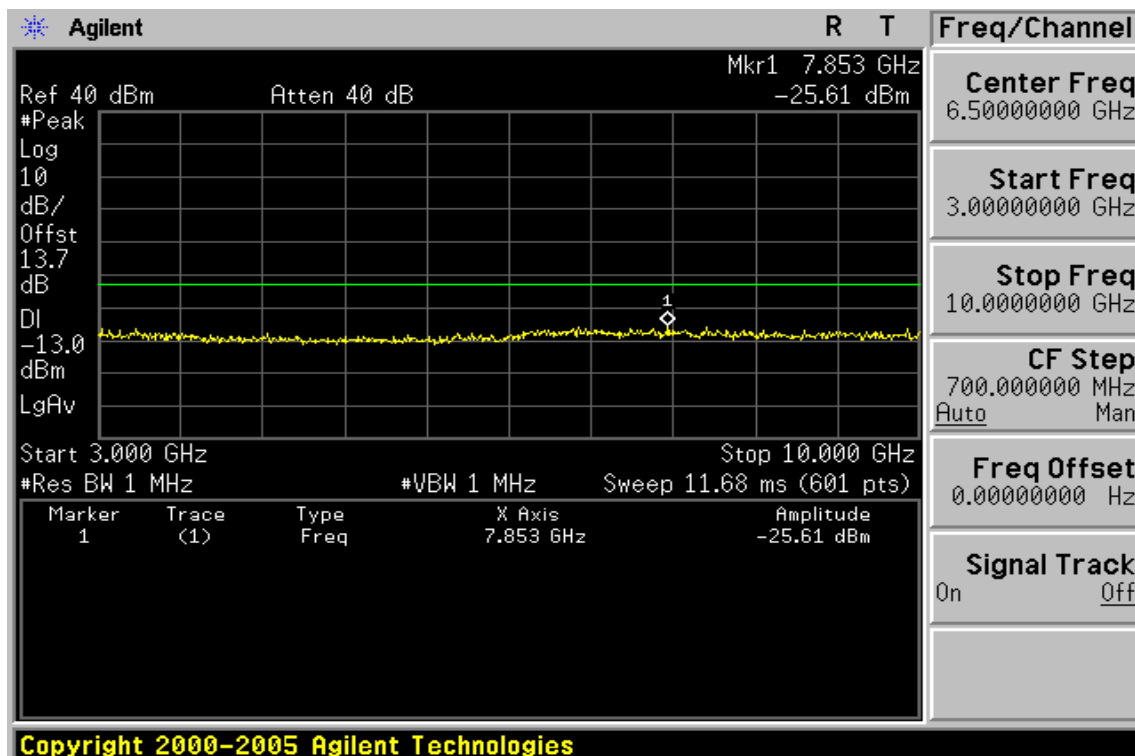
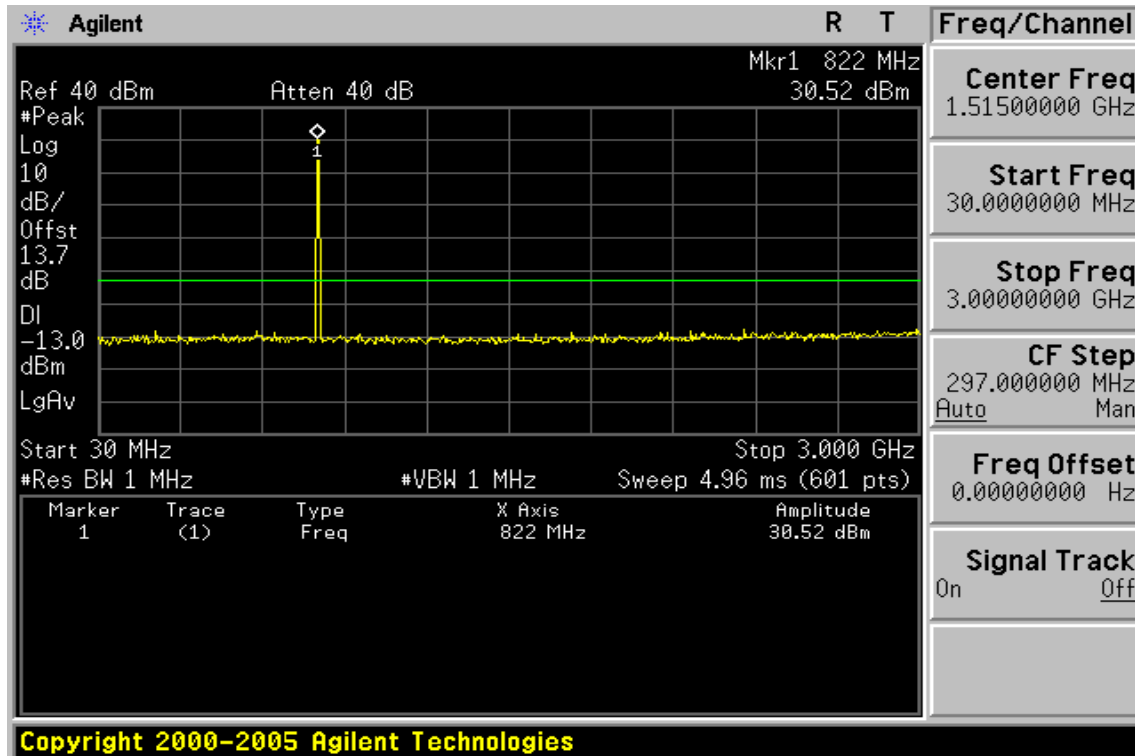
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Figure 9-21: Out of Band emission at antenna terminals – EDGE 850 Channel Lowest

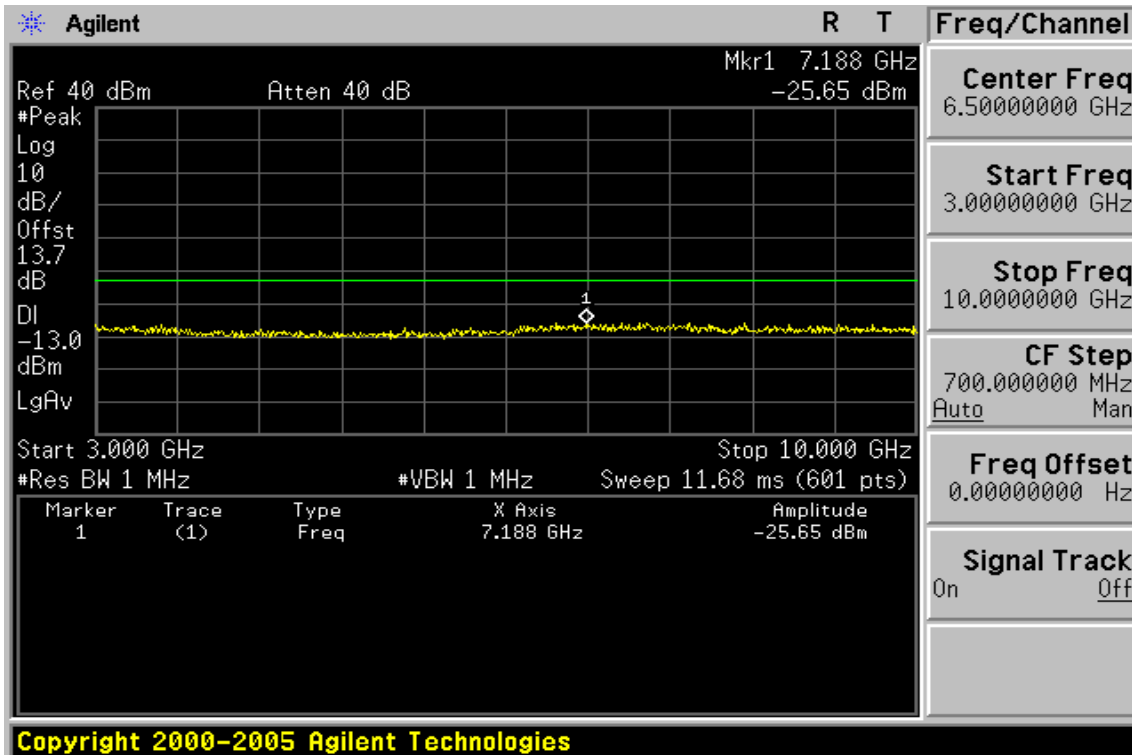
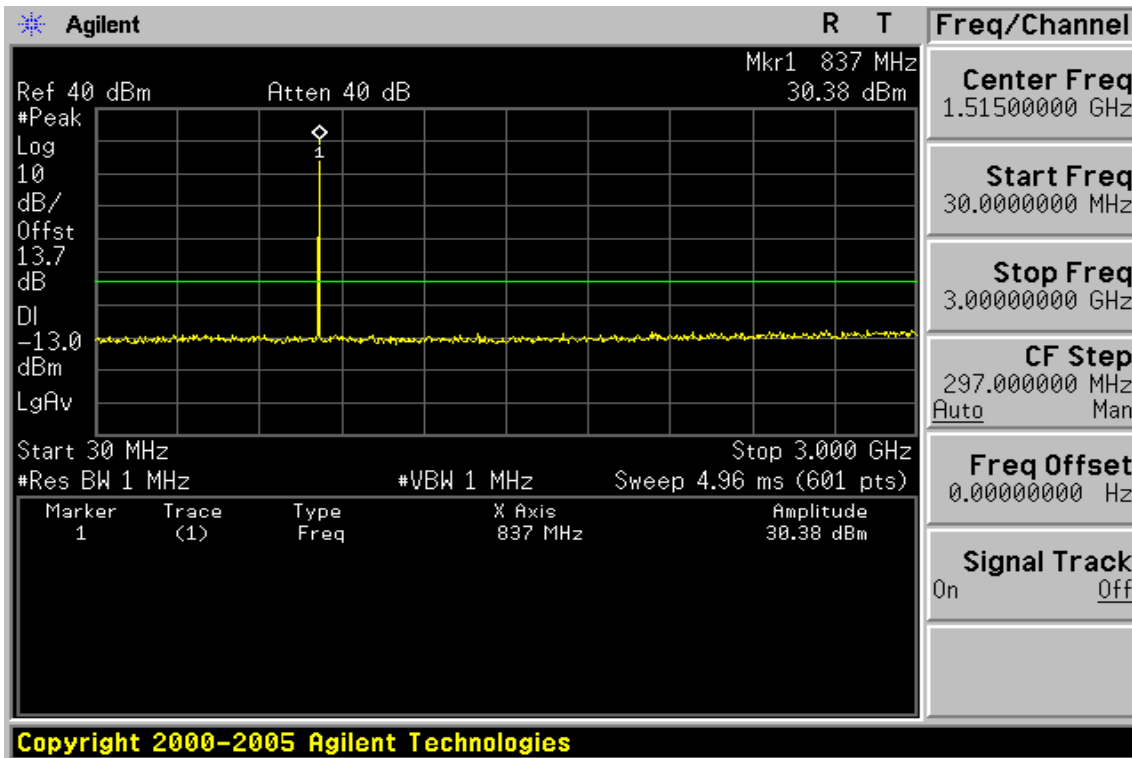


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Figure 9-22: Out of Band emission at antenna terminals – EDGE 850 Channel Mid



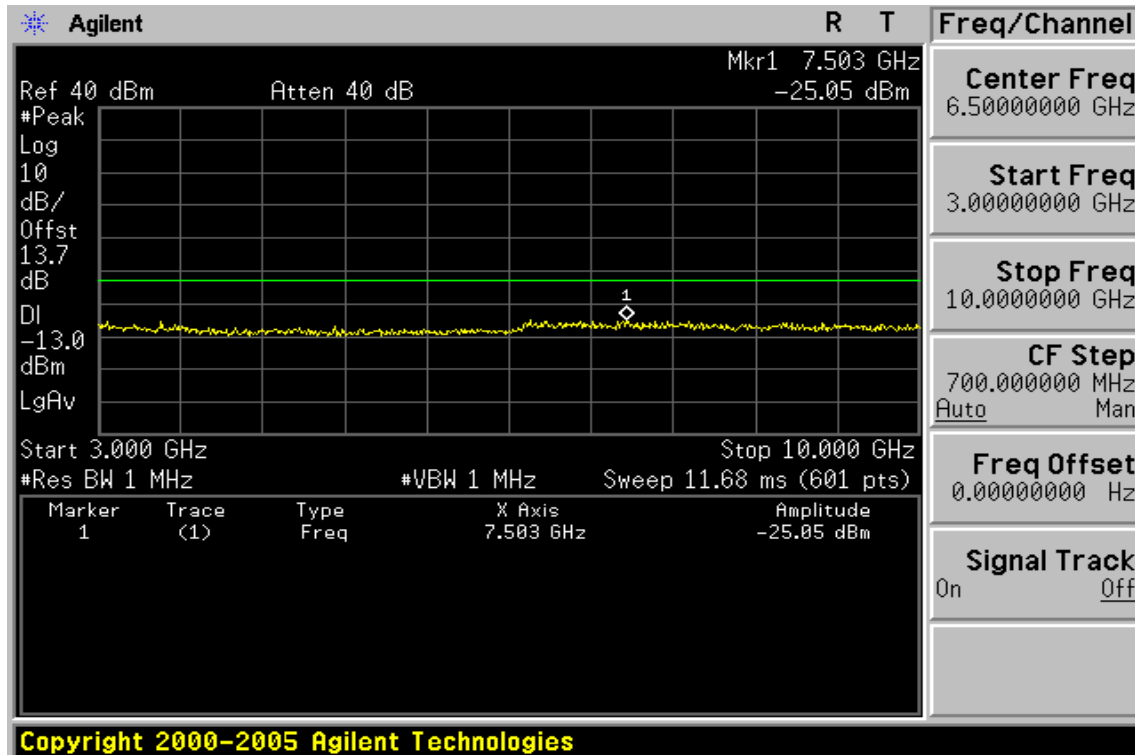
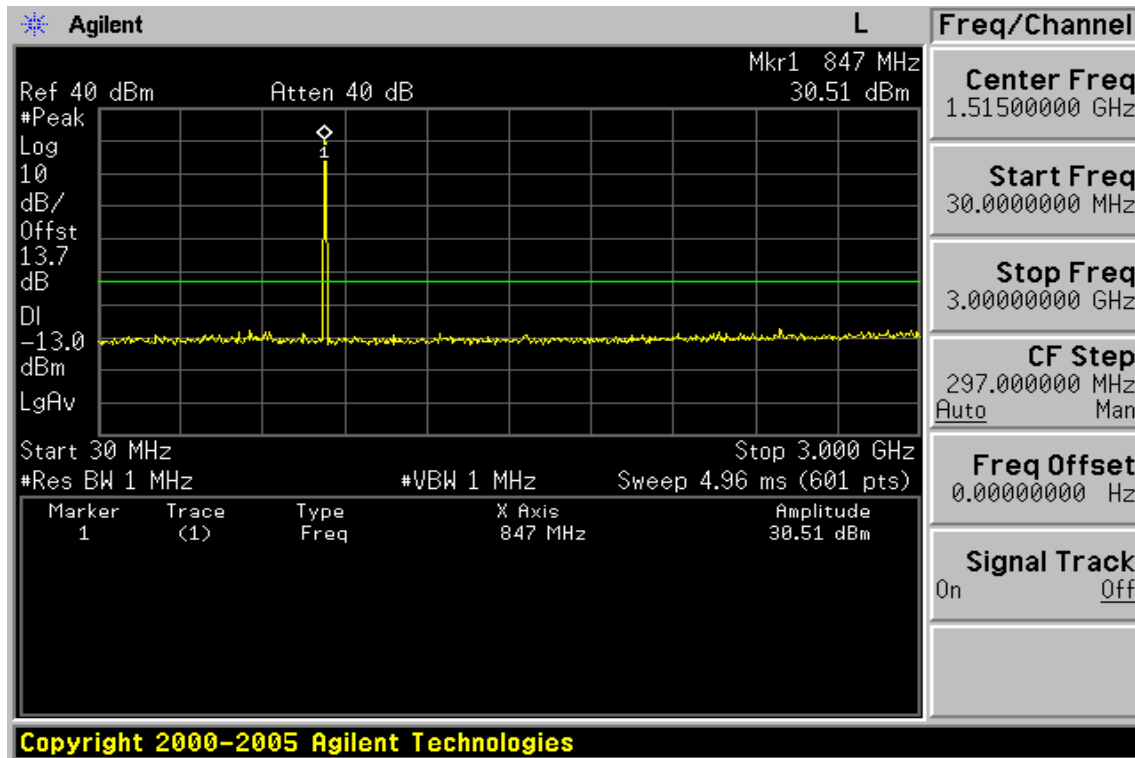
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Figure 9-23: Out of Band emission at antenna terminals – EDGE 850 Channel Highest



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# Out of Band emission at antenna terminals – EDGE 850

Fundamental Frequency :824.2 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1648.40        | H               | ---            | -13.00       | ---                  |
| 2472.60        | H               | ---            | -13.00       | ---                  |
| 3296.80        | H               | ---            | -13.00       | ---                  |
| 4121.00        | H               | ---            | -13.00       | ---                  |
| 4945.20        | H               | ---            | -13.00       | ---                  |
| 5769.40        | H               | ---            | -13.00       | ---                  |
| 6593.60        | H               | ---            | -13.00       | ---                  |
| 7417.80        | H               | ---            | -13.00       | ---                  |
| 7853.00        | S               | -25.61         | -13.00       | 12.61                |
| 8242.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Nick  
Operation Mode :TX Mid

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1673.20        | H               | ---            | -13.00       | ---                  |
| 2509.80        | H               | ---            | -13.00       | ---                  |
| 3346.40        | H               | ---            | -13.00       | ---                  |
| 4183.00        | H               | ---            | -13.00       | ---                  |
| 5019.60        | H               | ---            | -13.00       | ---                  |
| 6692.80        | H               | ---            | -13.00       | ---                  |
| 7188.00        | S               | -25.65         | -13.00       | 12.65                |
| 7529.40        | H               | ---            | -13.00       | ---                  |
| 8366.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :848.8MHz  
Operation Mode :TX High

Engineer :Nick

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1697.60        | H               | ---            | -13.00       | ---                  |
| 2546.40        | H               | ---            | -13.00       | ---                  |
| 3395.20        | H               | ---            | -13.00       | ---                  |
| 4244.00        | H               | ---            | -13.00       | ---                  |
| 5092.80        | H               | ---            | -13.00       | ---                  |
| 5941.60        | H               | ---            | -13.00       | ---                  |
| 6790.40        | H               | ---            | -13.00       | ---                  |
| 7503.00        | S               | -25.05         | -13.00       | 12.05                |
| 7639.20        | H               | ---            | -13.00       | ---                  |
| 8488.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Figure 9-24: Band edge emission at antenna terminals – EDGE 850 Channel Lowest

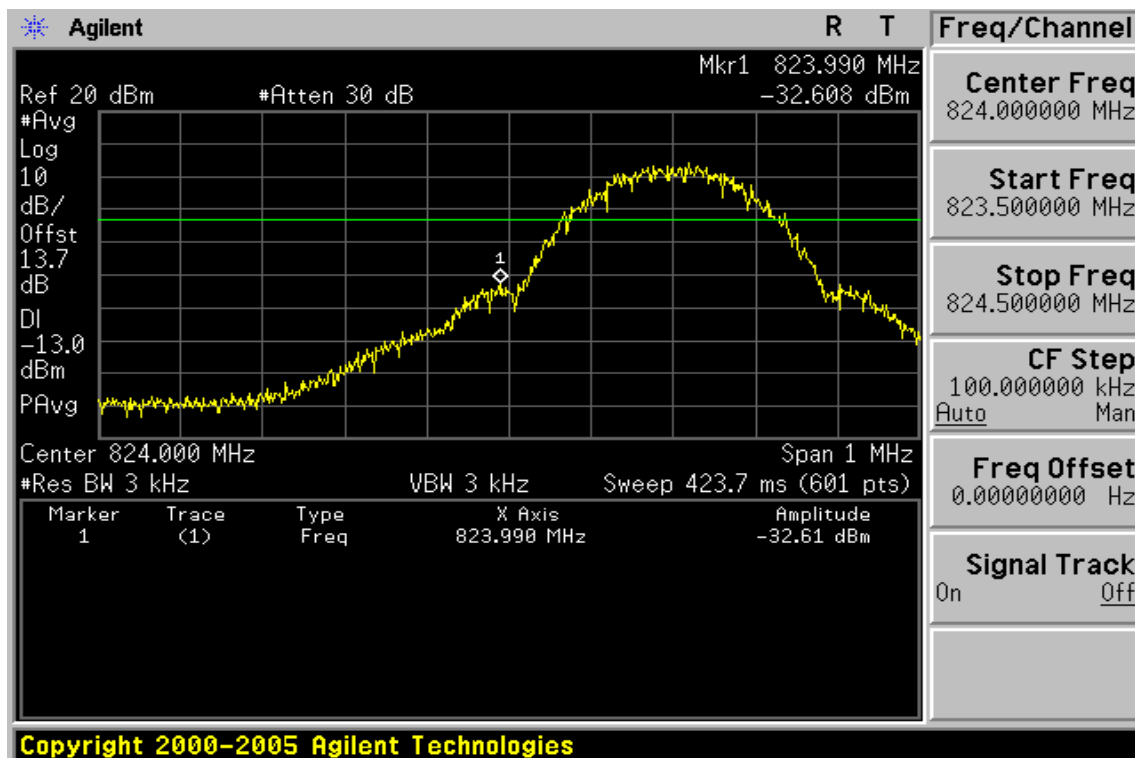
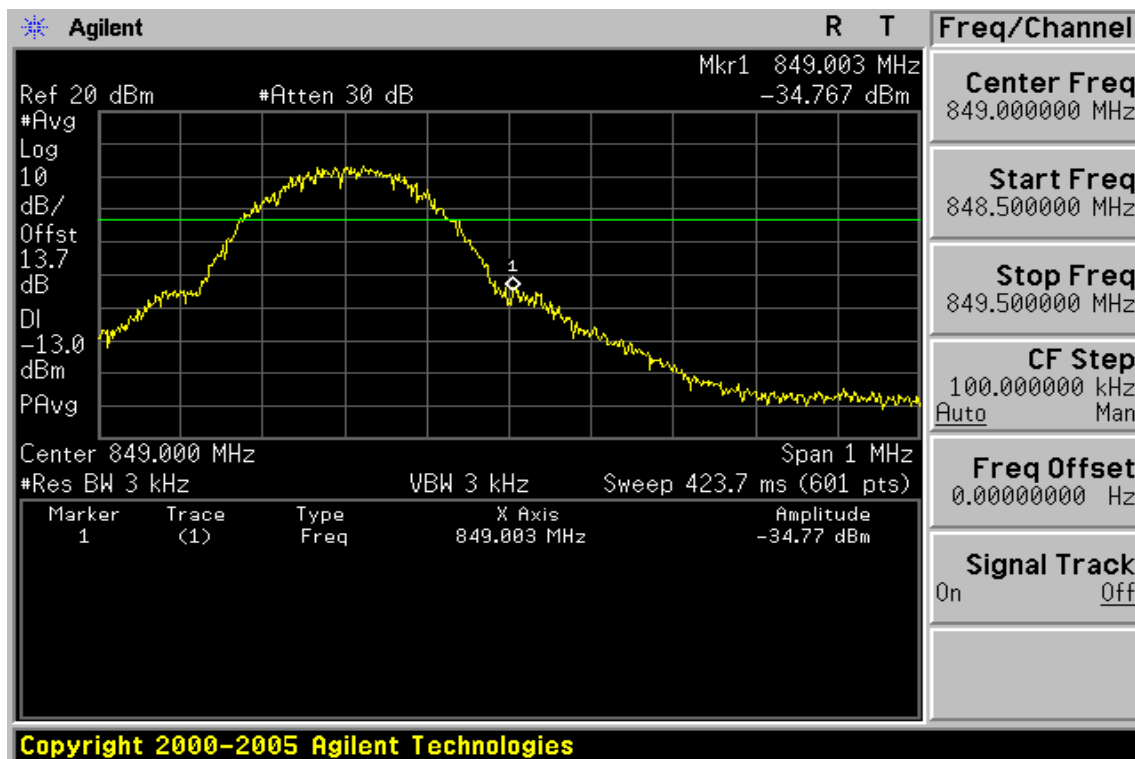


Figure 9-25: Band edge emission at antenna terminals – EDGE 850 Channel Highest



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**Band edge emission at antenna terminals – EDGE 850 Low & High**

Test Mode

EDGE 850

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 823.990      | -32.61         | -13.00       | 19.61                |
| 849.003      | -34.77         | -13.00       | 21.77                |

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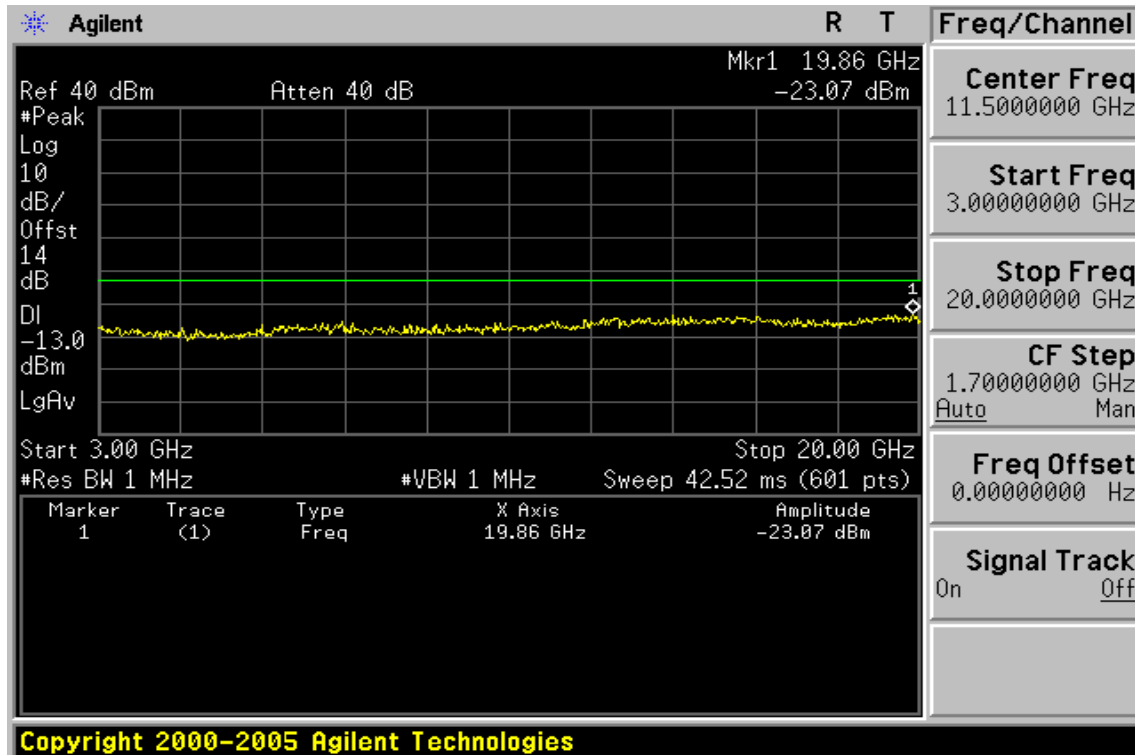
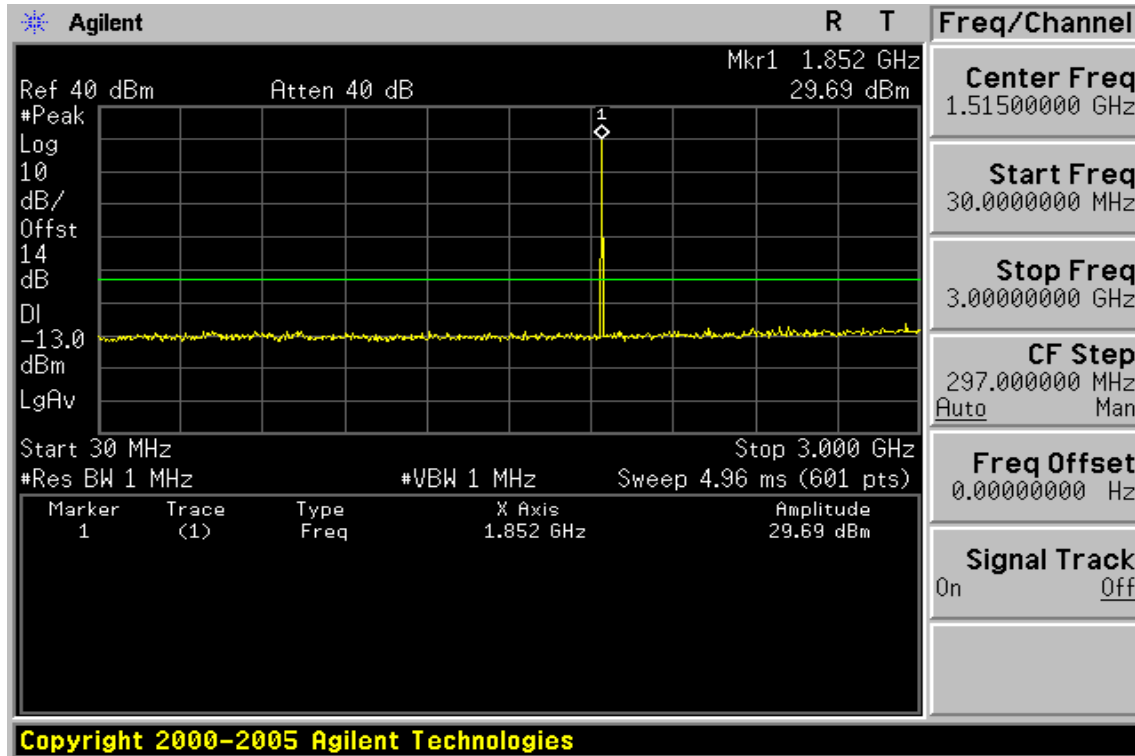
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Figure 9-26: Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest

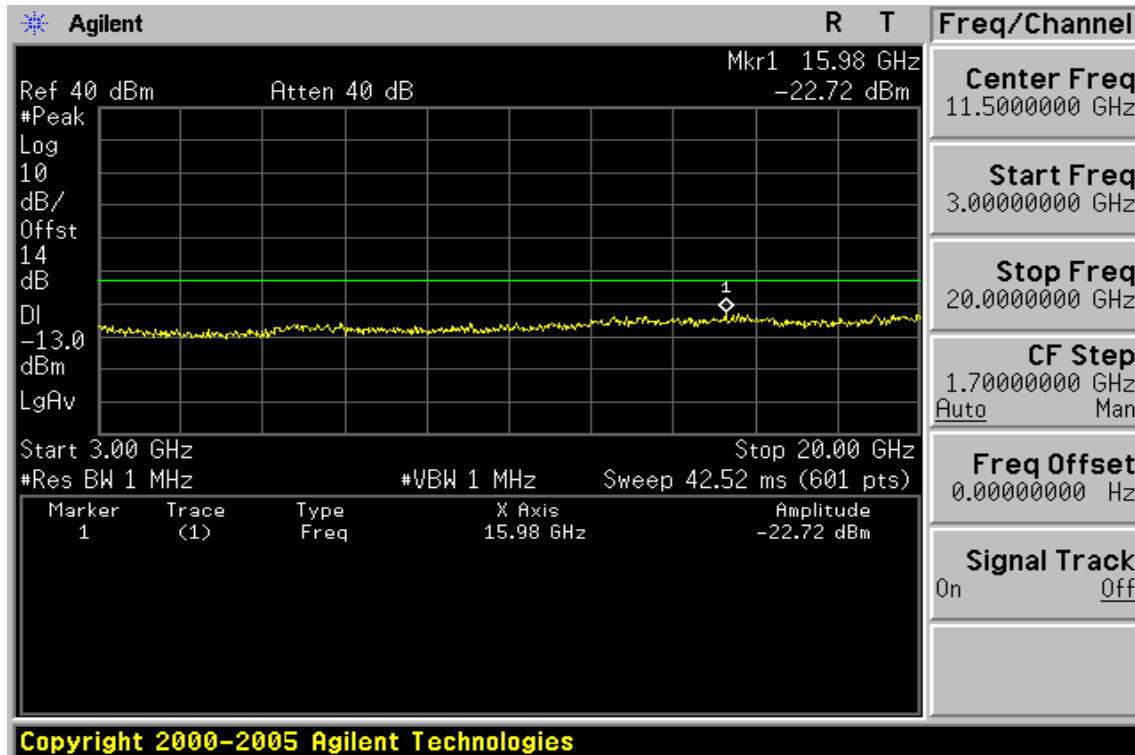
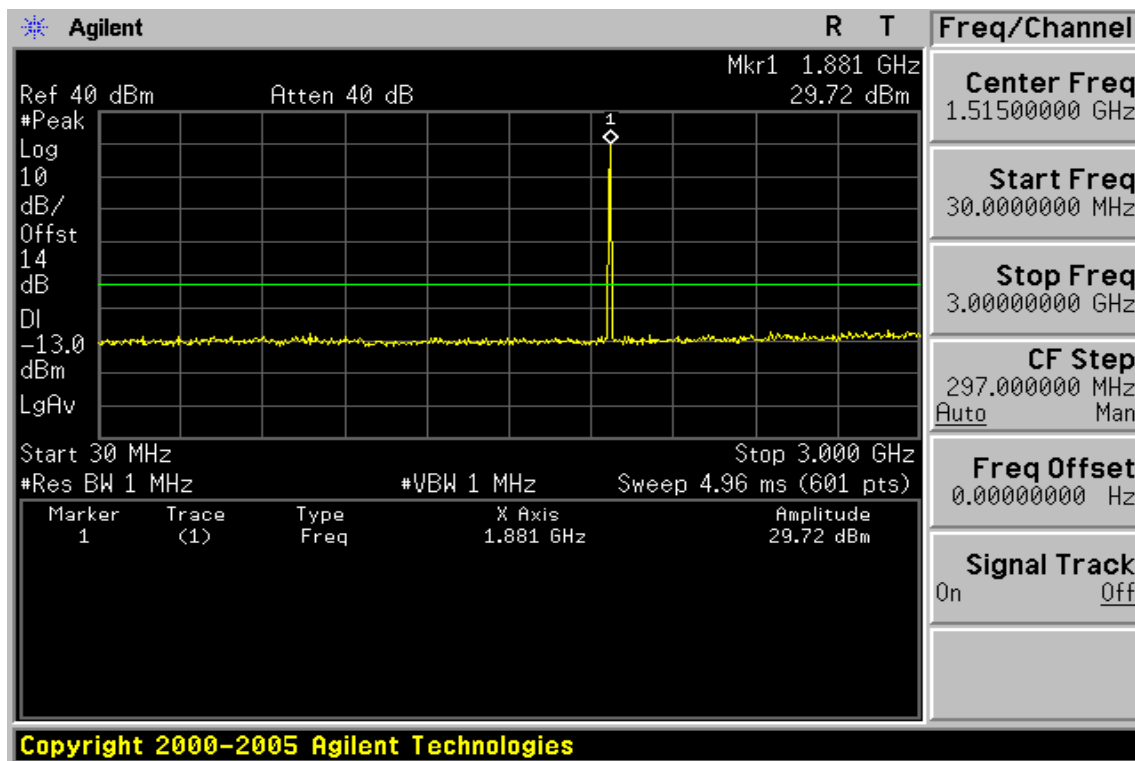


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Figure 9-27: Out of Band emission at antenna terminals – EDGE 1900 Channel Mid



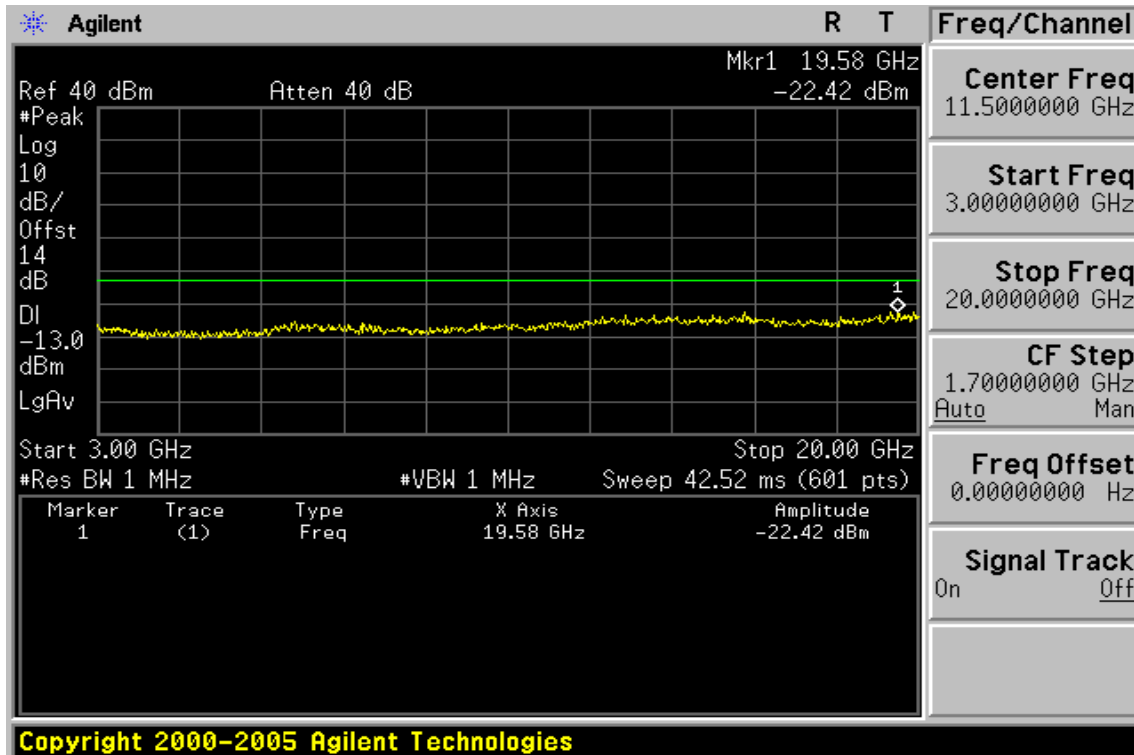
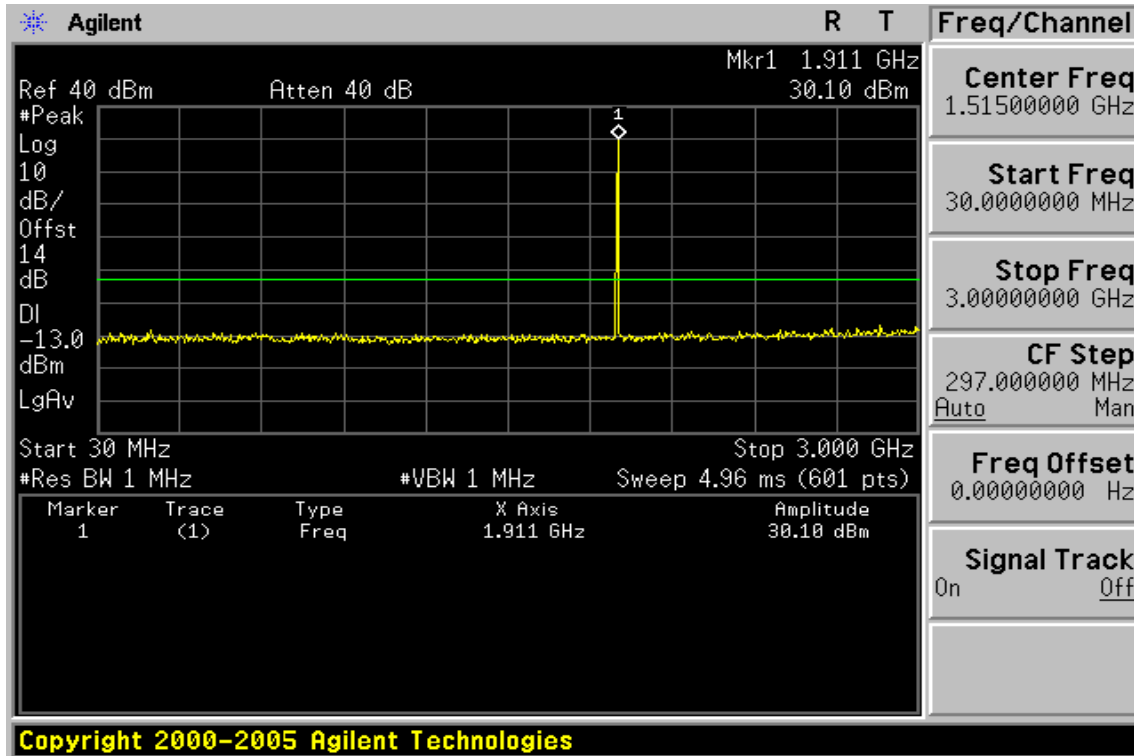
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Figure 9-28: Out of Band emission at antenna terminals – EDGE 1900 Channel Highest



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**Out of Band emission at antenna terminals – EDGE 1900**

Fundamental Frequency :1850.2 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3700.40        | H               | ---            | -13.00       | ---                  |
| 5550.60        | H               | ---            | -13.00       | ---                  |
| 7400.80        | H               | ---            | -13.00       | ---                  |
| 9251.00        | H               | ---            | -13.00       | ---                  |
| 11101.20       | H               | ---            | -13.00       | ---                  |
| 12951.40       | H               | ---            | -13.00       | ---                  |
| 14801.60       | H               | ---            | -13.00       | ---                  |
| 16651.80       | H               | ---            | -13.00       | ---                  |
| 18502.00       | H               | ---            | -13.00       | ---                  |
| 19860.00       | S               | -23.07         | -13.00       | 10.07                |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick  
Operation Mode :TX Mid

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3760.00        | H               | ---            | -13.00       | ---                  |
| 5640.00        | H               | ---            | -13.00       | ---                  |
| 7520.00        | H               | ---            | -13.00       | ---                  |
| 9400.00        | H               | ---            | -13.00       | ---                  |
| 11280.00       | H               | ---            | -13.00       | ---                  |
| 13160.00       | H               | ---            | -13.00       | ---                  |
| 15040.00       | H               | ---            | -13.00       | ---                  |
| 15980.00       | S               | -22.72         | -13.00       | 9.72                 |
| 16920.00       | H               | ---            | -13.00       | ---                  |
| 18800.00       | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1909.8 MHz Engineer :Nick  
Operation Mode :TX High

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3819.60        | H               | ---            | -13.00       | ---                  |
| 5729.40        | H               | ---            | -13.00       | ---                  |
| 7639.20        | H               | ---            | -13.00       | ---                  |
| 9549.00        | H               | ---            | -13.00       | ---                  |
| 11458.80       | H               | ---            | -13.00       | ---                  |
| 13368.60       | H               | ---            | -13.00       | ---                  |
| 15278.40       | H               | ---            | -13.00       | ---                  |
| 17188.20       | H               | ---            | -13.00       | ---                  |
| 19098.00       | H               | ---            | -13.00       | ---                  |
| 19580.00       | S               | -22.42         | -13.00       | 9.42                 |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Figure 9-29: Band edge emission at antenna terminals – EDGE 1900 Channel Lowest

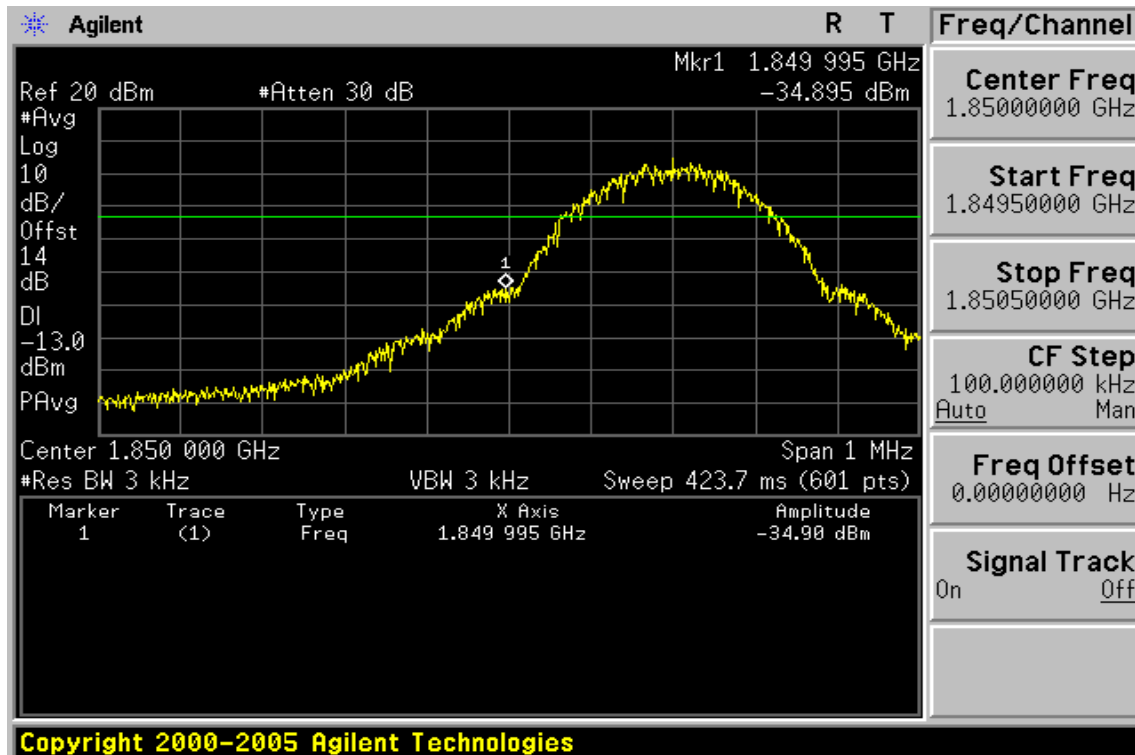
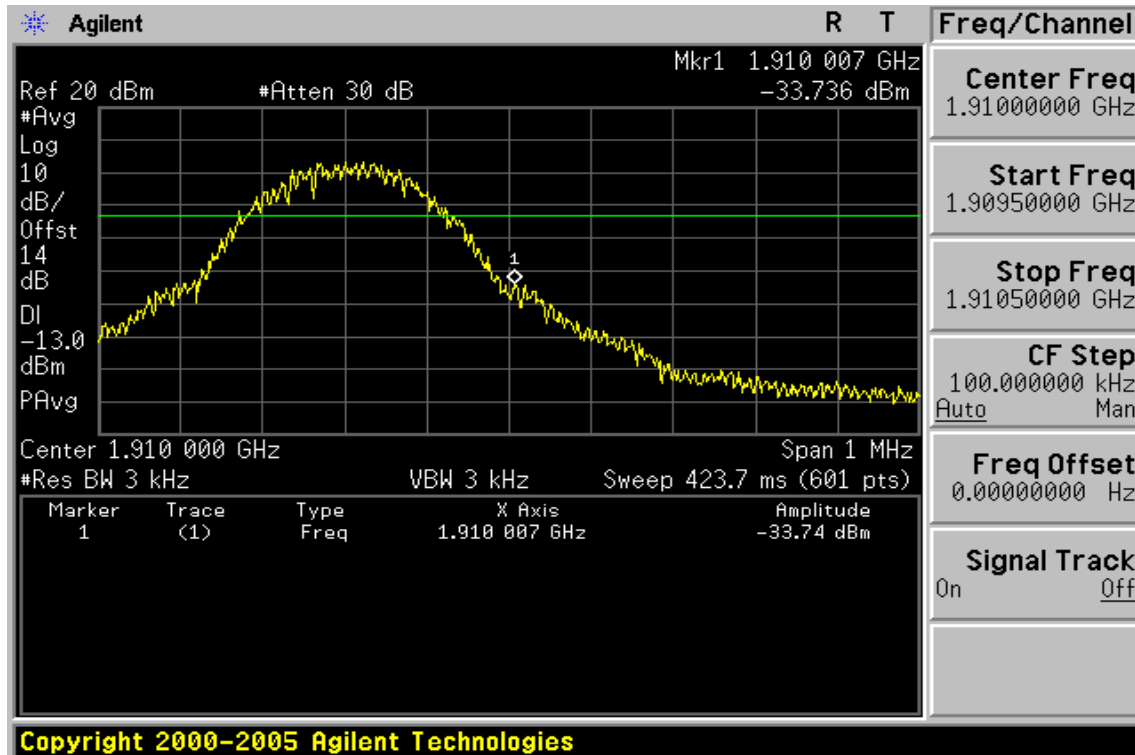


Figure 9-30: Band edge emission at antenna terminals – EDGE 1900 Channel Highest



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**Band edge emission at antenna terminals – EDGE 1900 Low & High**

Test Mode

EDGE 1900:

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 1849.995     | -34.90         | -13.00       | 21.90                |
| 1910.007     | -33.74         | -13.00       | 20.74                |

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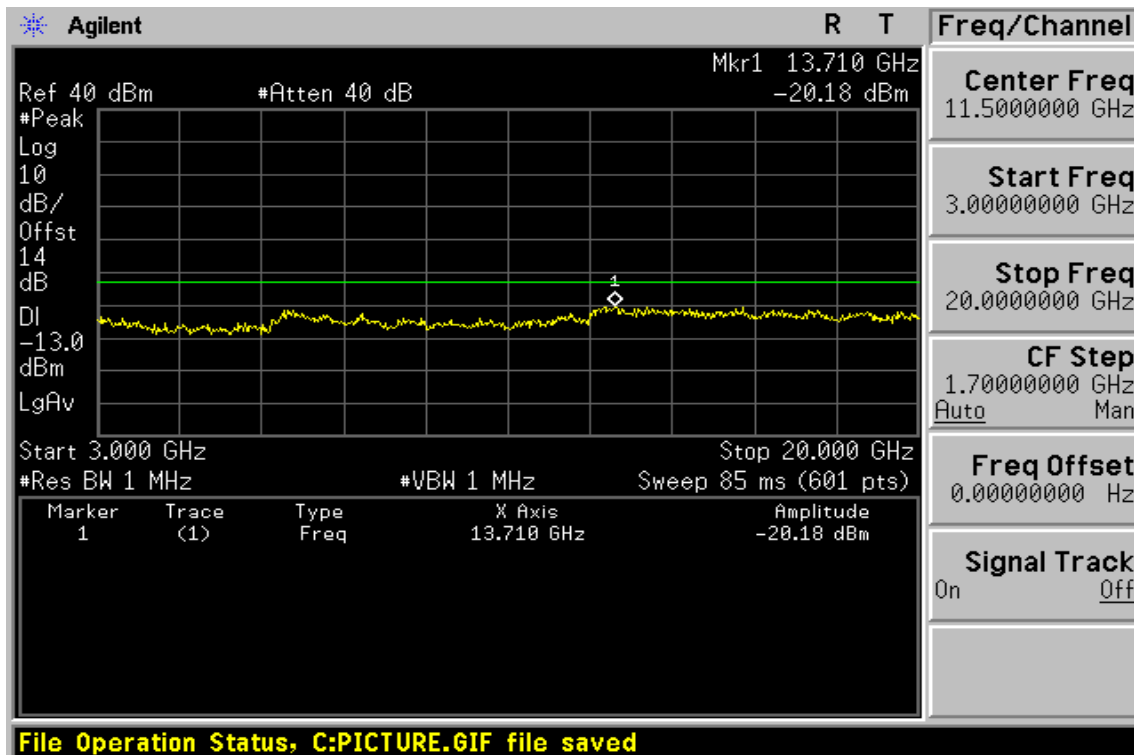
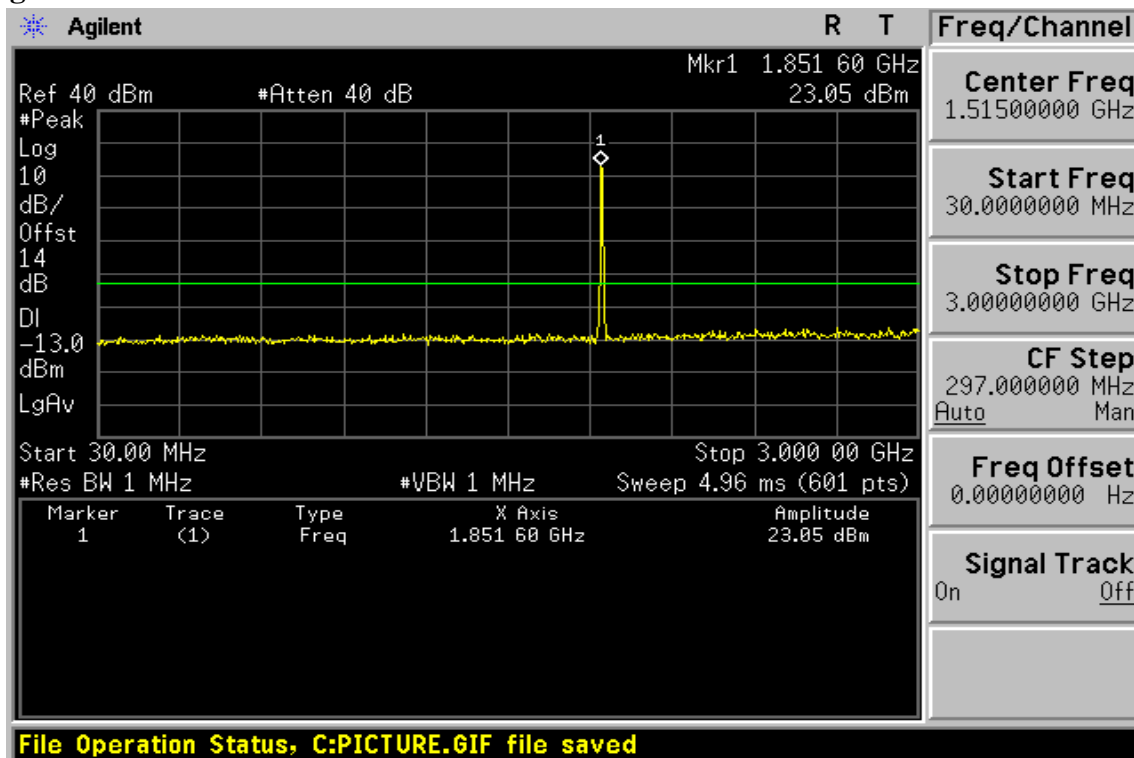
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Figure 9-31: Out of Band emission at antenna terminals – WCDMA II Channel Lowest

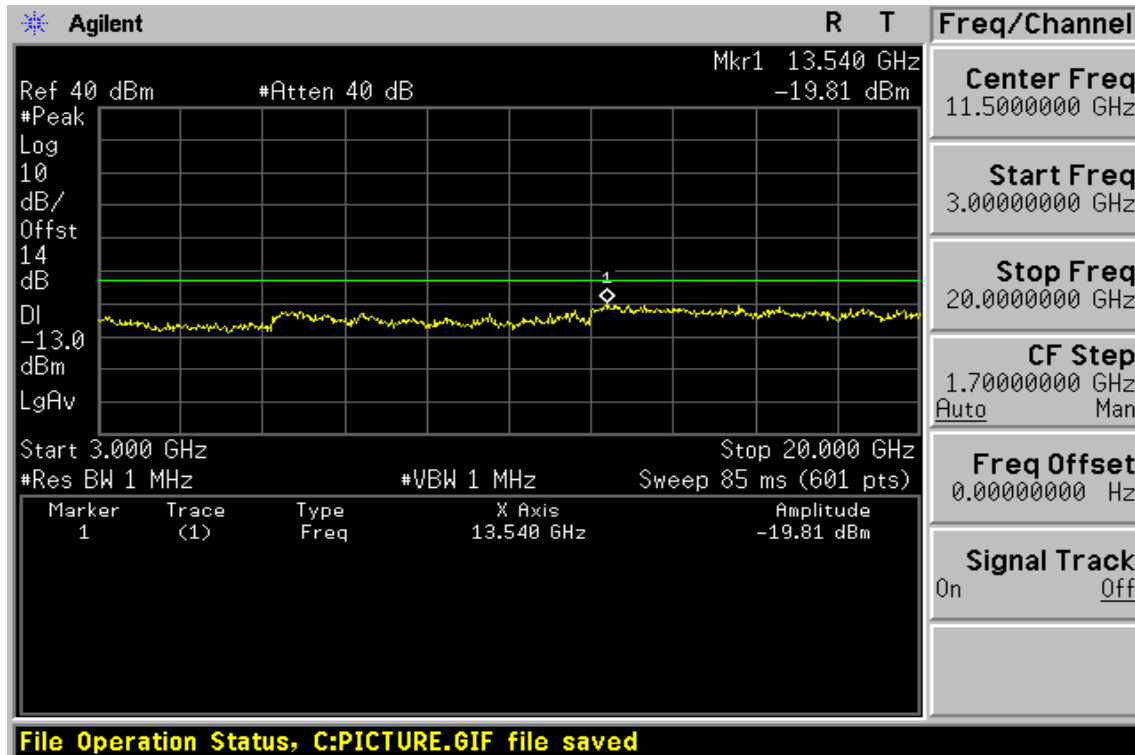
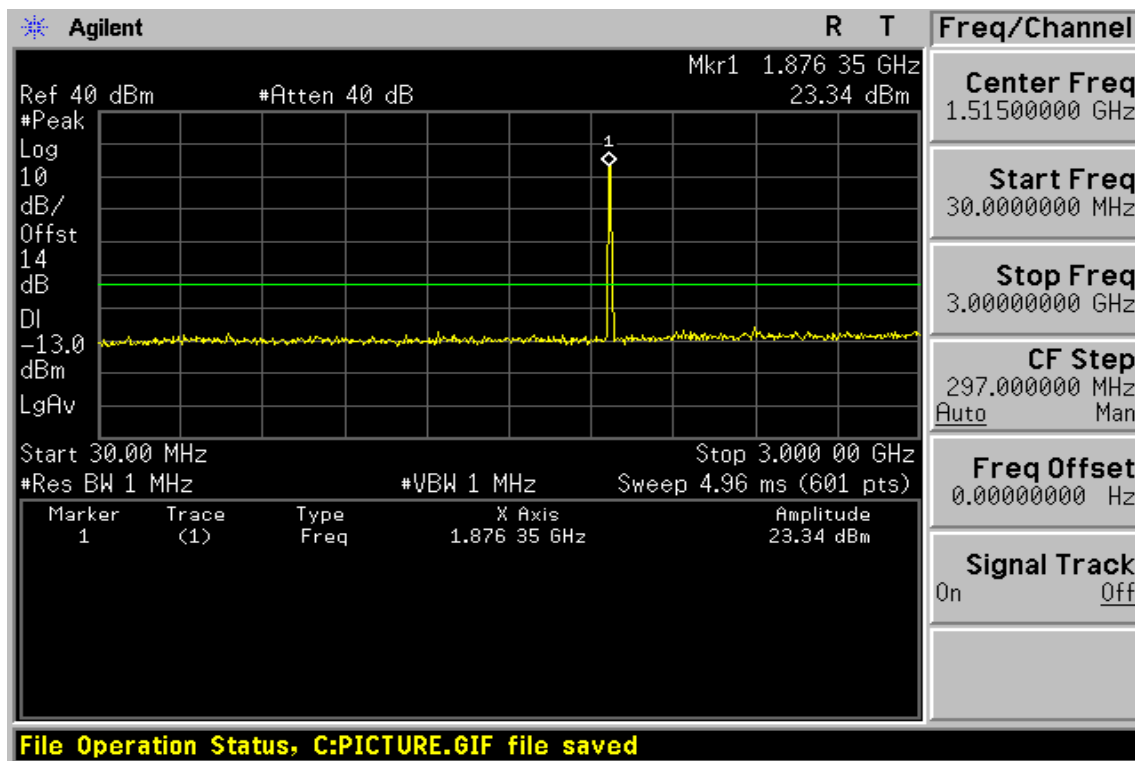


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Figure 9-32: Out of Band emission at antenna terminals – WCDMA II Channel Mid



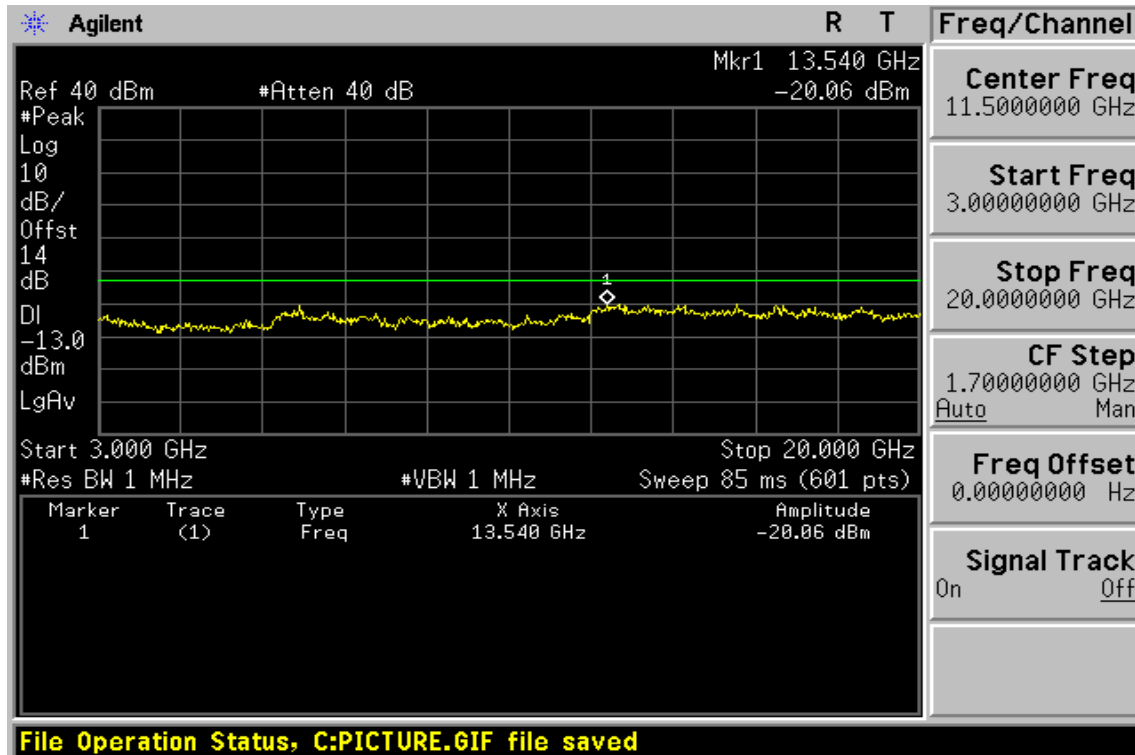
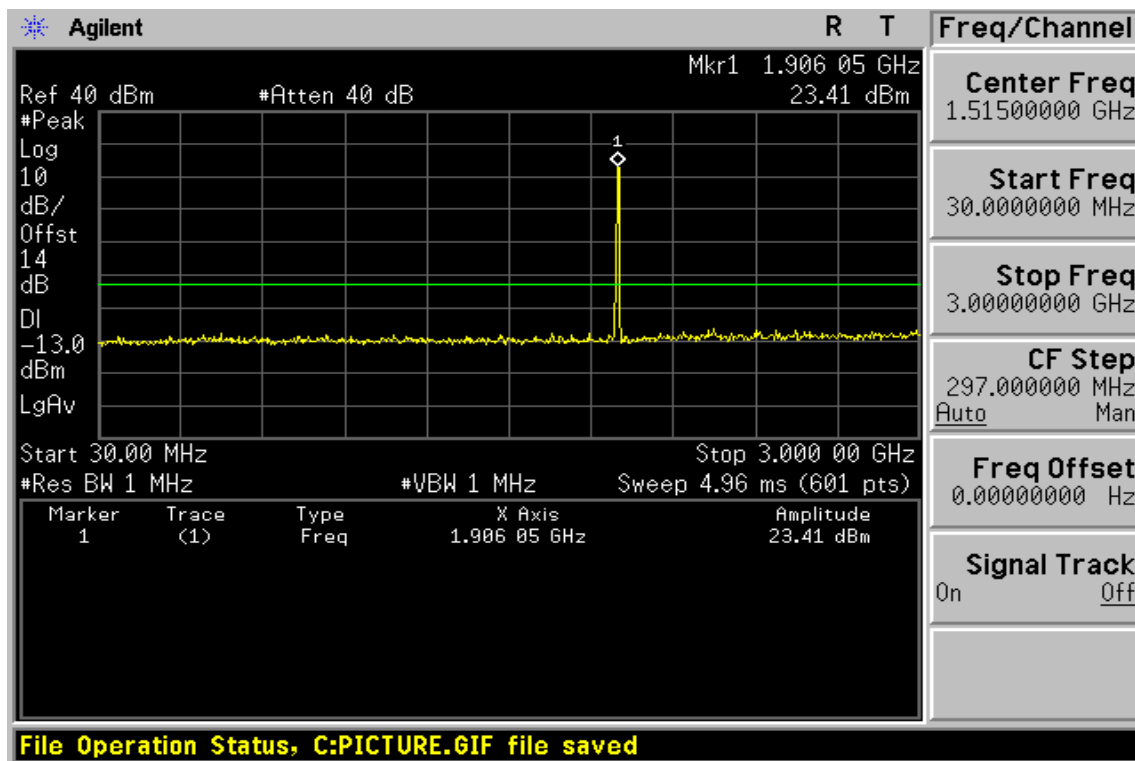
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Figure 9-33: Out of Band emission at antenna terminals – WCDMA II Channel Highest



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# Out of Band emission at antenna terminals – WCDMA II

Fundamental Frequency :1852.4 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3704.80        | H               | ---            | -13.00       | ---                  |
| 5557.20        | H               | ---            | -13.00       | ---                  |
| 7409.60        | H               | ---            | -13.00       | ---                  |
| 9262.00        | H               | ---            | -13.00       | ---                  |
| 11114.40       | H               | ---            | -13.00       | ---                  |
| 12966.80       | H               | ---            | -13.00       | ---                  |
| 13710.00       | S               | -20.18         | -13.00       | 7.18                 |
| 14819.20       | H               | ---            | -13.00       | ---                  |
| 16671.60       | H               | ---            | -13.00       | ---                  |
| 18524.00       | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick  
Operation Mode :TX Mid

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3760.00        | H               | ---            | -13.00       | ---                  |
| 5640.00        | H               | ---            | -13.00       | ---                  |
| 7520.00        | H               | ---            | -13.00       | ---                  |
| 9400.00        | H               | ---            | -13.00       | ---                  |
| 11280.00       | H               | ---            | -13.00       | ---                  |
| 13160.00       | H               | ---            | -13.00       | ---                  |
| 13540.00       | S               | -19.81         | -13.00       | 6.81                 |
| 15040.00       | H               | ---            | -13.00       | ---                  |
| 16920.00       | H               | ---            | -13.00       | ---                  |
| 18800.00       | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1907.6MHz  
Operation Mode :TX High

Engineer :Nick

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3815.20        | H               | ---            | -13.00       | ---                  |
| 5722.80        | H               | ---            | -13.00       | ---                  |
| 7630.40        | H               | ---            | -13.00       | ---                  |
| 9538.00        | H               | ---            | -13.00       | ---                  |
| 11445.60       | H               | ---            | -13.00       | ---                  |
| 13353.20       | H               | ---            | -13.00       | ---                  |
| 13540.00       | S               | -20.06         | -13.00       | 7.06                 |
| 15260.80       | H               | ---            | -13.00       | ---                  |
| 17168.40       | H               | ---            | -13.00       | ---                  |
| 19076.00       | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

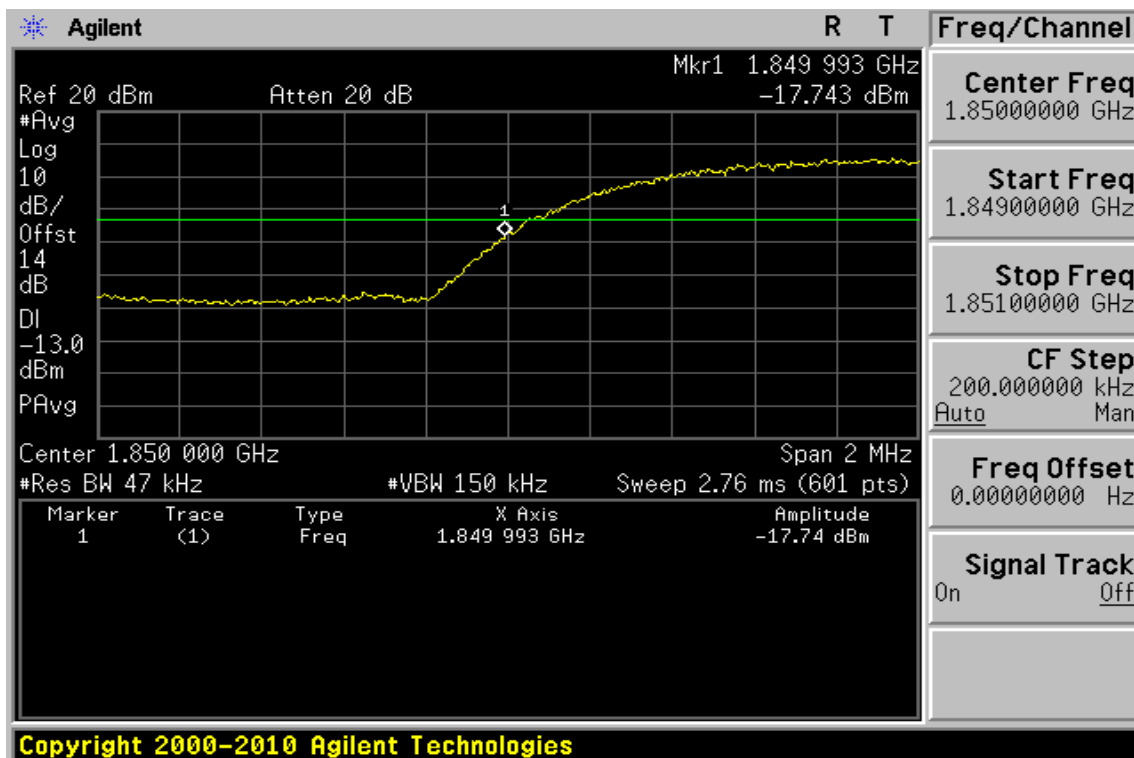
“---” : denotes Noise Floor.

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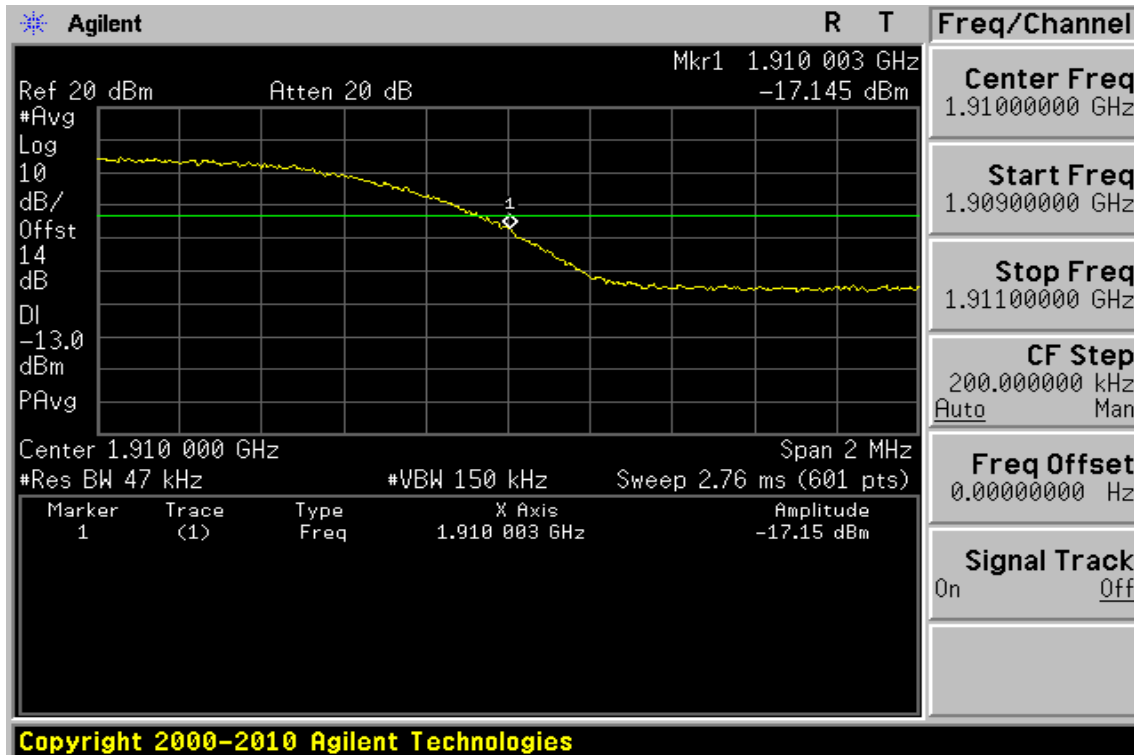
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**Figure 9-34: Band edge emission at antenna terminals – WCDMA II Channel Lowest**



**Figure 9-35: Band edge emission at antenna terminals – WCDMA II Channel Highest**



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**Band edge emission at antenna terminals – WCDMA II Low & High**

Test Mode

WCDMA II

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 1849.993     | -17.74         | -13.00       | 4.74                 |
| 1910.003     | -17.15         | -13.00       | 4.15                 |

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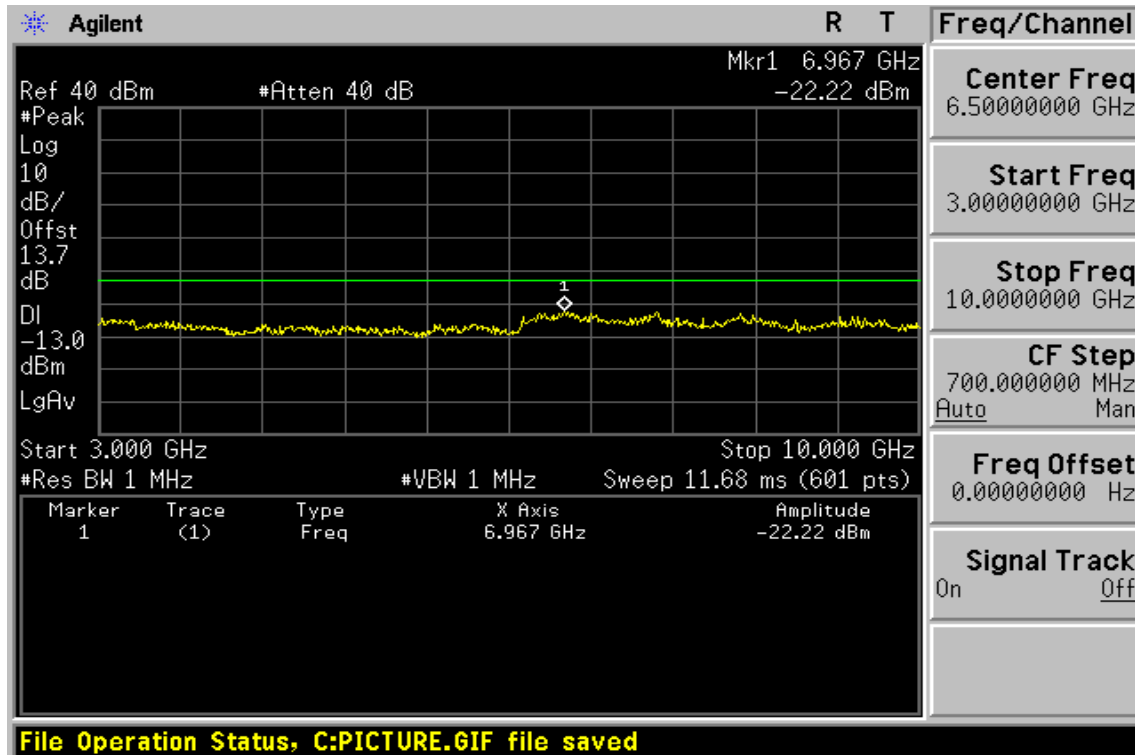
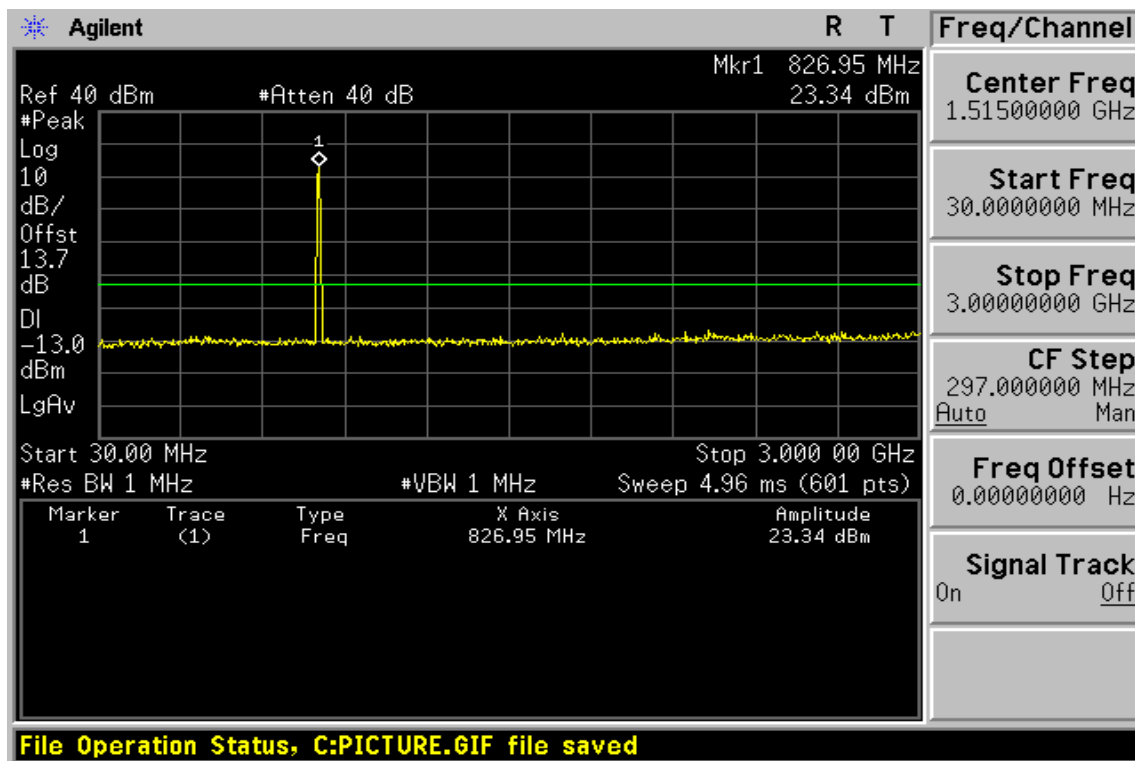
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Figure 9-36: Out of Band emission at antenna terminals – WCDMA V Channel Lowest

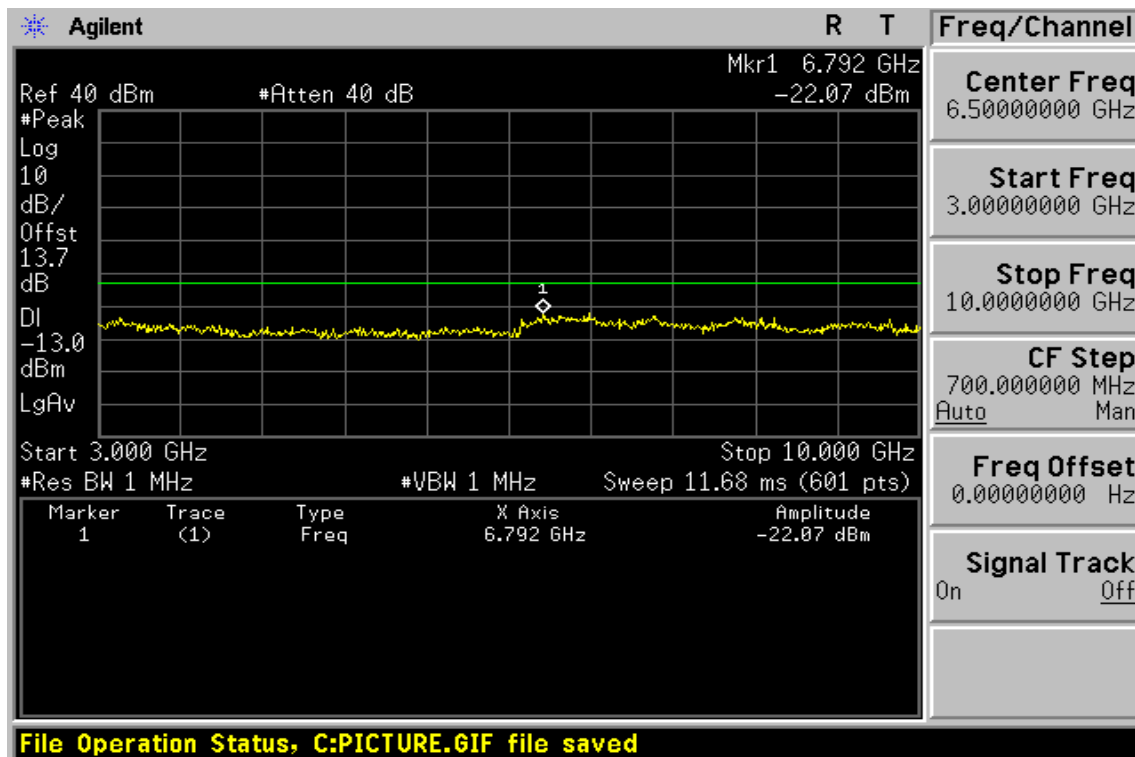
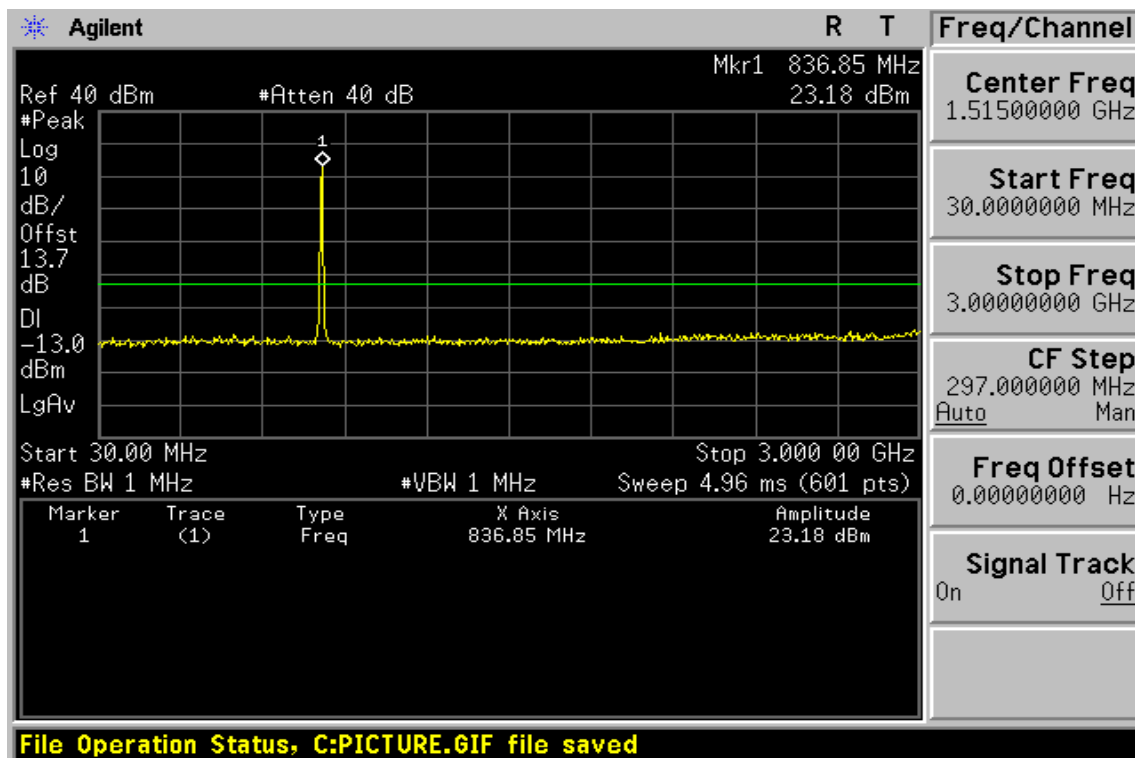


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Figure 9-37: Out of Band emission at antenna terminals – WCDMA V Channel Mid



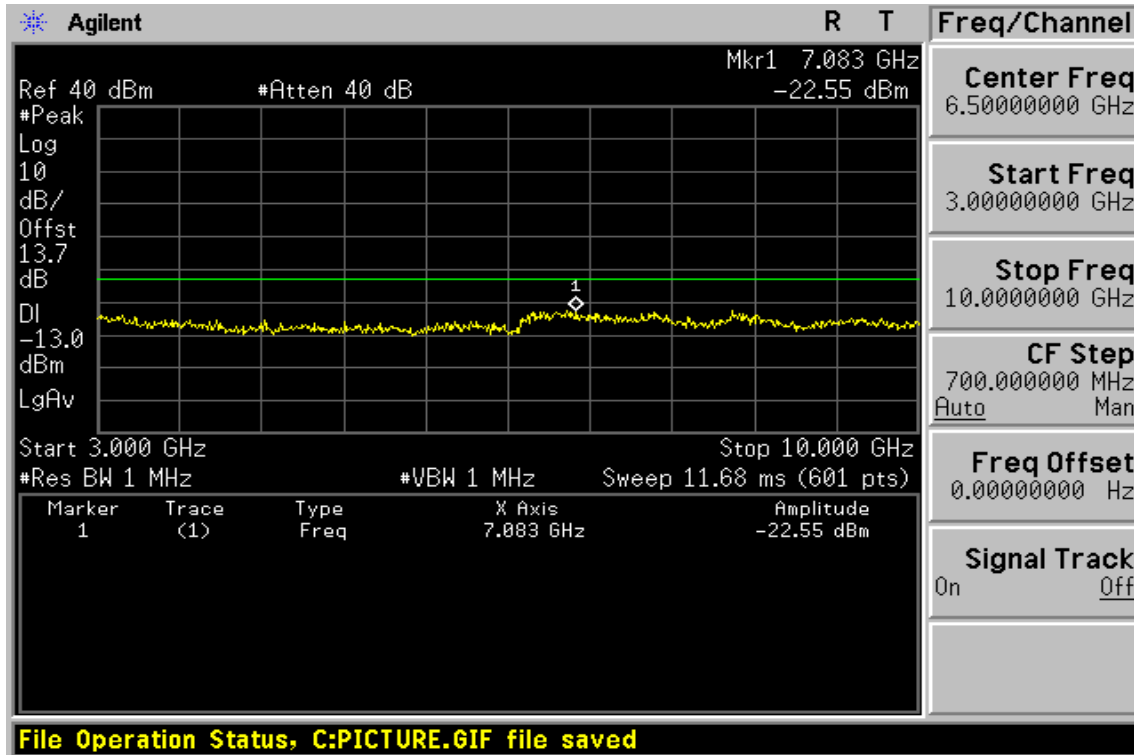
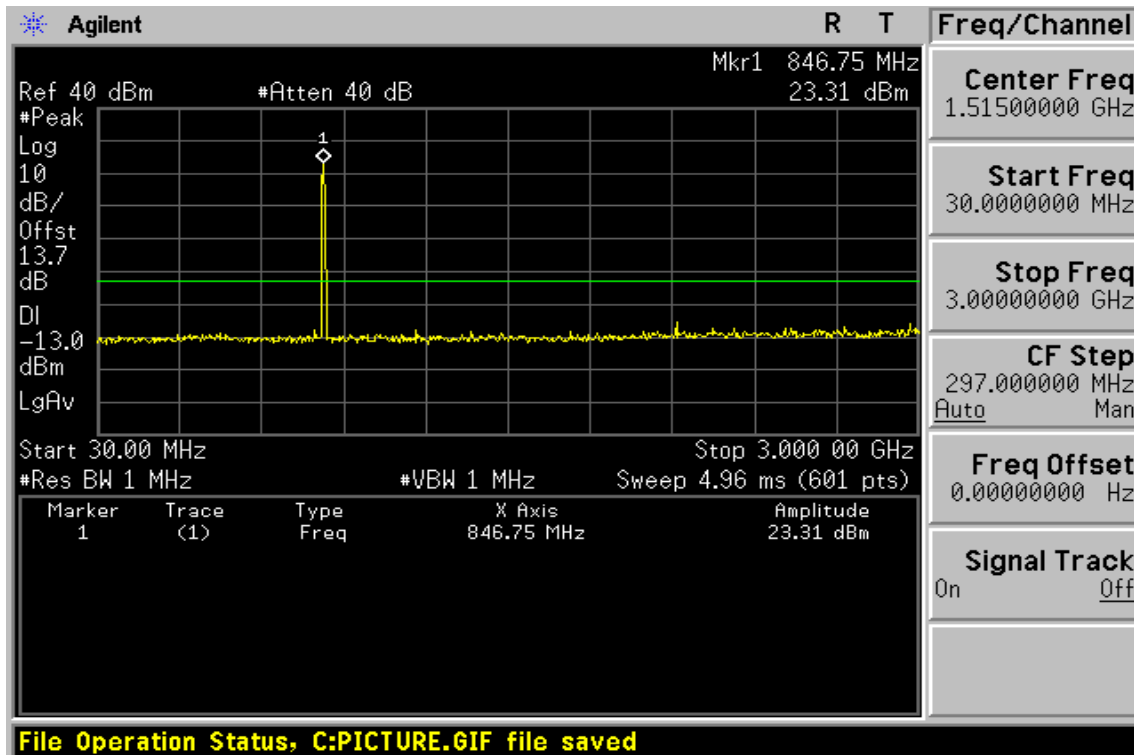
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Figure 9-38: Out of Band emission at antenna terminals – WCDMA V Channel Highest



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**Out of Band emission at antenna terminals – WCDMA V**

Fundamental Frequency :826.4 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1652.80        | H               | ---            | -13.00       | ---                  |
| 2479.20        | H               | ---            | -13.00       | ---                  |
| 3305.60        | H               | ---            | -13.00       | ---                  |
| 4132.00        | H               | ---            | -13.00       | ---                  |
| 4958.40        | H               | ---            | -13.00       | ---                  |
| 5784.80        | H               | ---            | -13.00       | ---                  |
| 6611.20        | H               | ---            | -13.00       | ---                  |
| 6967.00        | S               | -22.22         | -13.00       | 9.22                 |
| 7437.60        | H               | ---            | -13.00       | ---                  |
| 8264.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz  
Operation Mode :TX Mid

Engineer :Nick

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1673.20        | H               | ---            | -13.00       | ---                  |
| 2509.80        | H               | ---            | -13.00       | ---                  |
| 3346.40        | H               | ---            | -13.00       | ---                  |
| 4183.00        | H               | ---            | -13.00       | ---                  |
| 5019.60        | H               | ---            | -13.00       | ---                  |
| 5856.20        | H               | ---            | -13.00       | ---                  |
| 6692.80        | H               | ---            | -13.00       | ---                  |
| 6792.00        | S               | -22.07         | -13.00       | 9.07                 |
| 7529.40        | H               | ---            | -13.00       | ---                  |
| 8366.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :846.6MHz  
Operation Mode :TX High

Engineer :Nick

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1693.20        | H               | ---            | -13.00       | ---                  |
| 2539.80        | H               | ---            | -13.00       | ---                  |
| 3386.40        | H               | ---            | -13.00       | ---                  |
| 4233.00        | H               | ---            | -13.00       | ---                  |
| 5079.60        | H               | ---            | -13.00       | ---                  |
| 5926.20        | H               | ---            | -13.00       | ---                  |
| 6772.80        | H               | ---            | -13.00       | ---                  |
| 7083.00        | S               | -22.55         | -13.00       | 9.55                 |
| 7619.40        | H               | ---            | -13.00       | ---                  |
| 8466.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

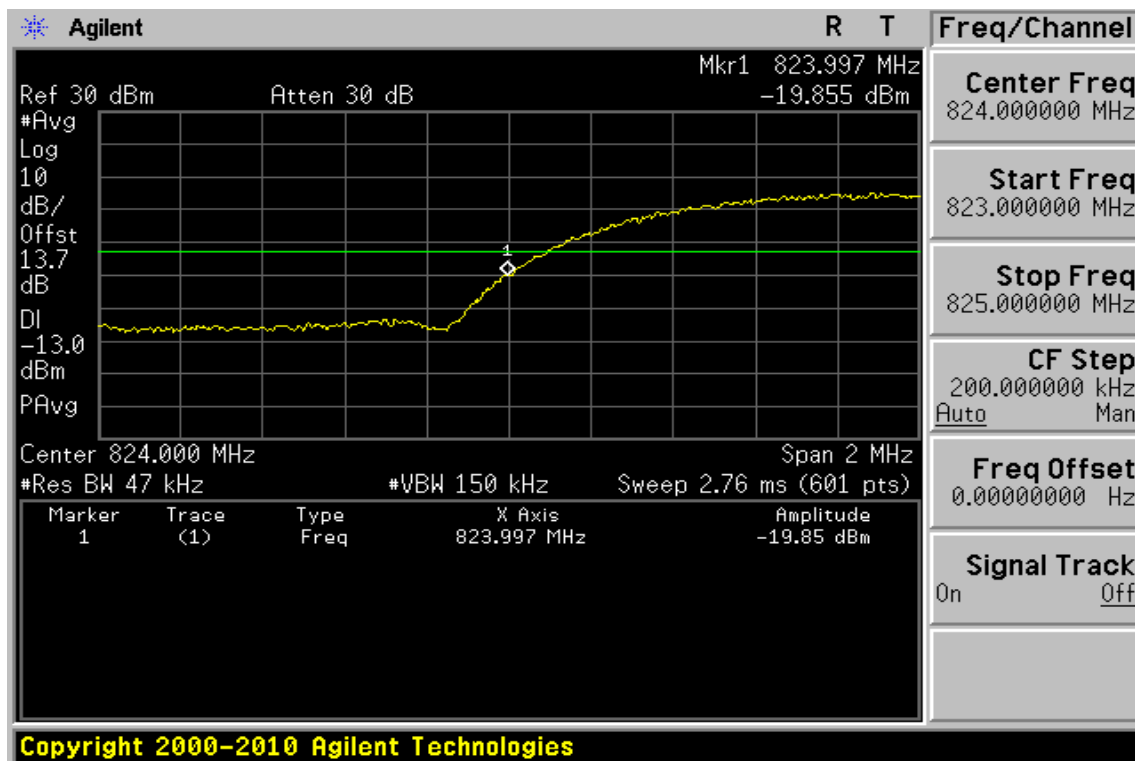
“---” : denotes Noise Floor.

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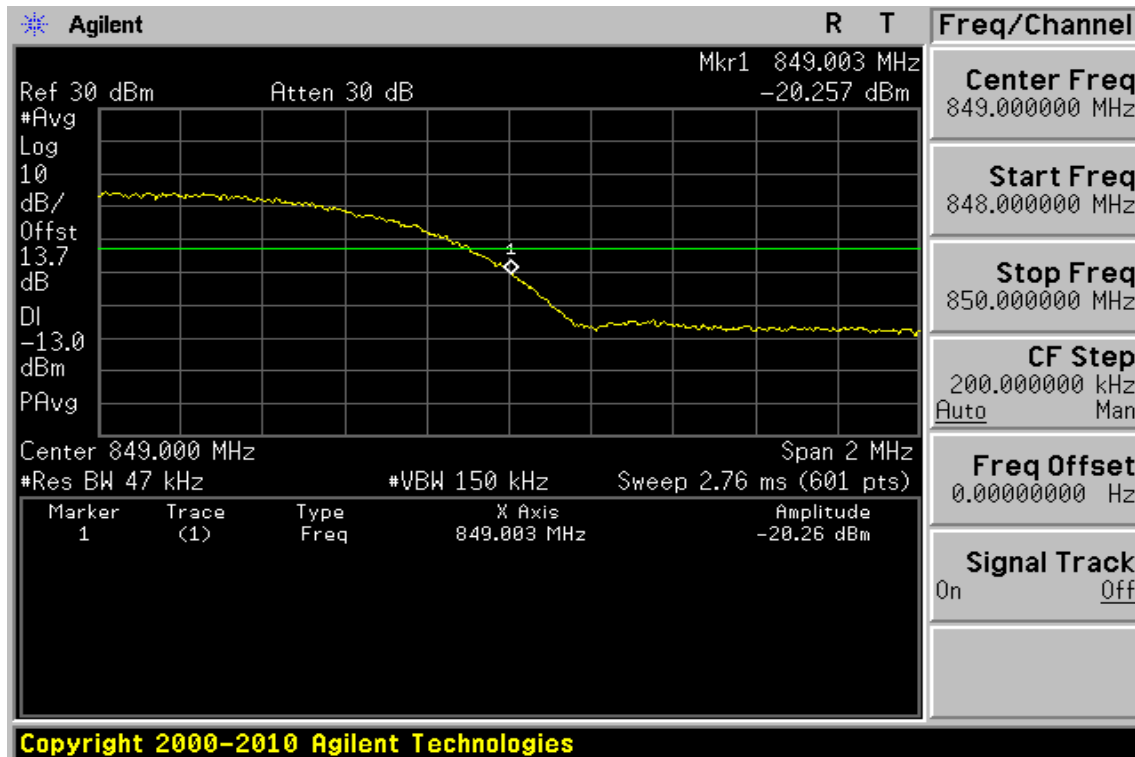
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**Figure 9-39: Band edge emission at antenna terminals – WCDMA V Channel Lowest**



**Figure 9-40: Band edge emission at antenna terminals – WCDMA V Channel Highest**



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**Band edge emission at antenna terminals – WCDMA V Low & High**

Test Mode

WCDMA V

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 823.997      | -19.85         | -13.00       | 6.85                 |
| 849.003      | -20.26         | -13.00       | 7.26                 |

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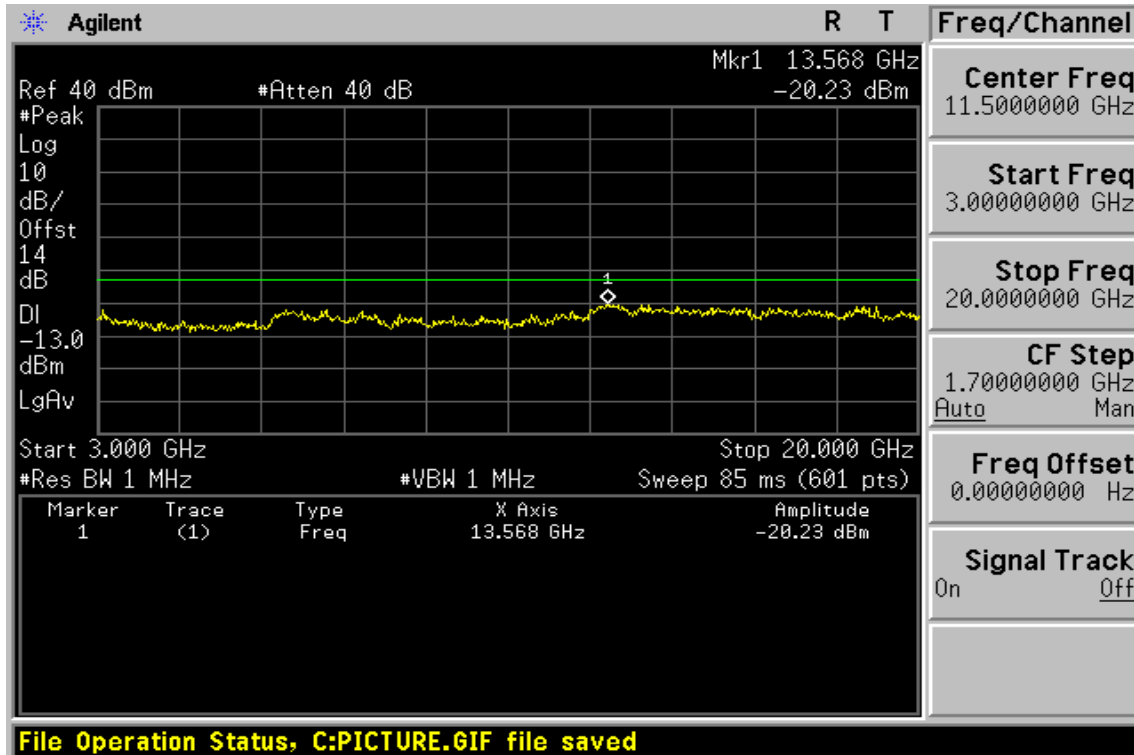
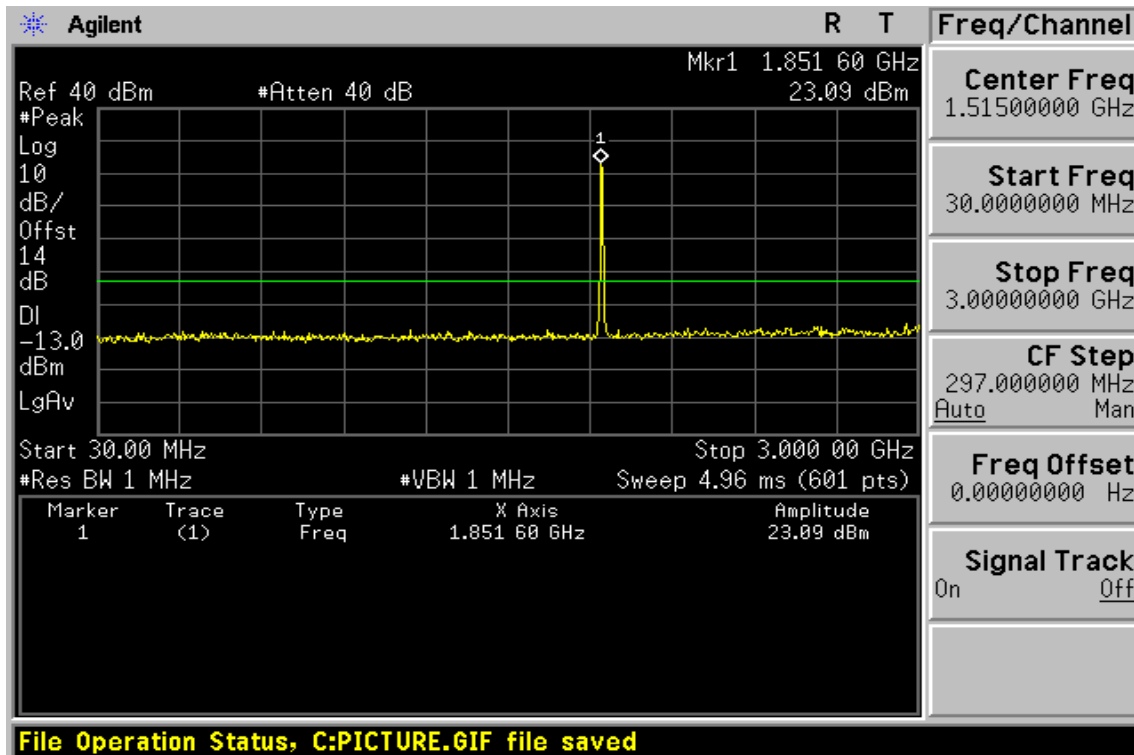
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Figure 9-41: Out of Band emission at antenna terminals – HSDPA II Channel Lowest

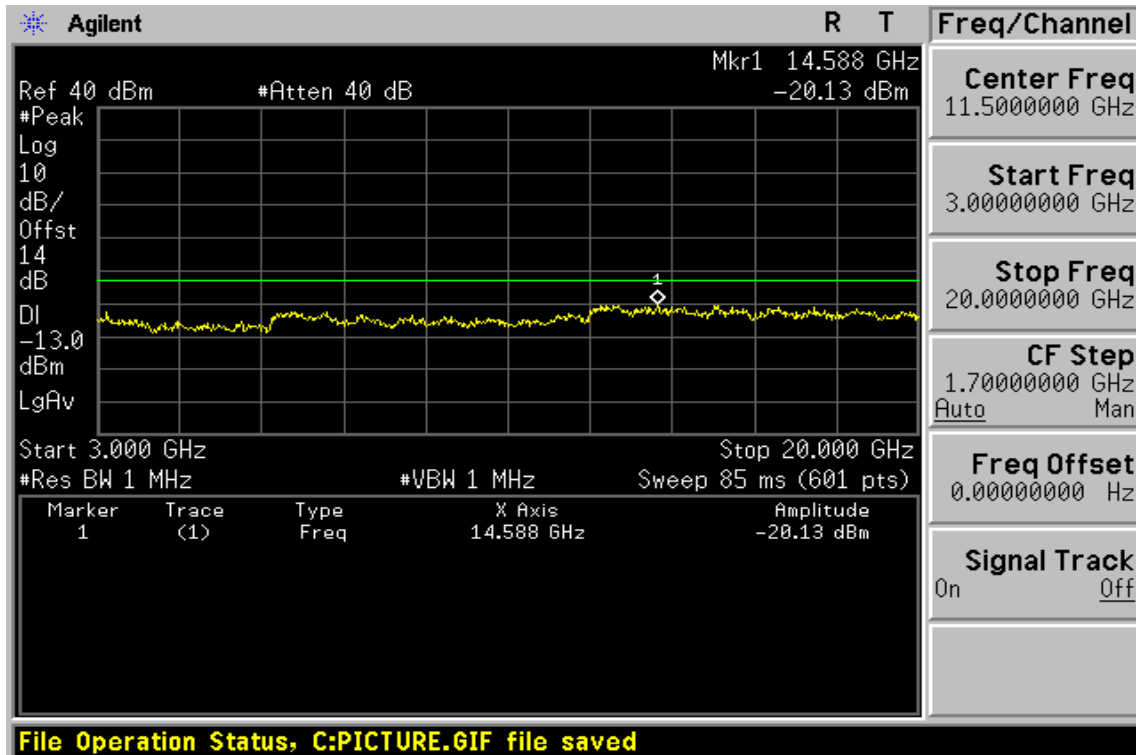
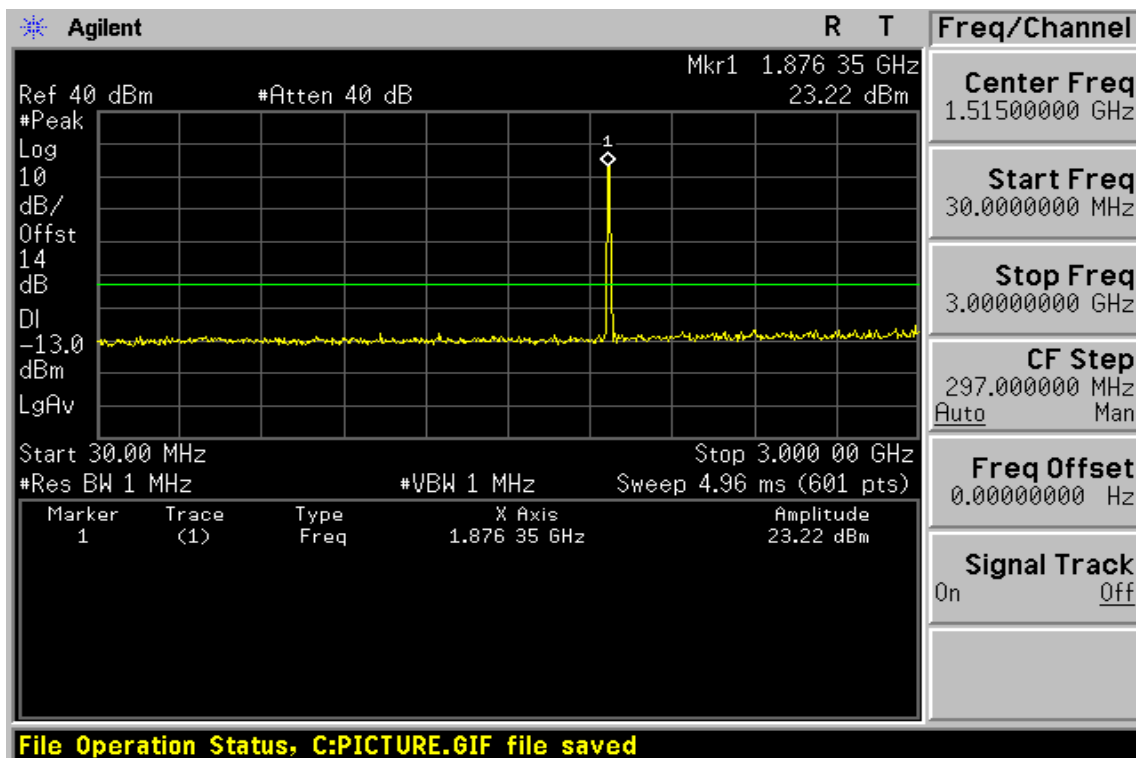


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Figure 9-42: Out of Band emission at antenna terminals – HSDPA II Channel Mid



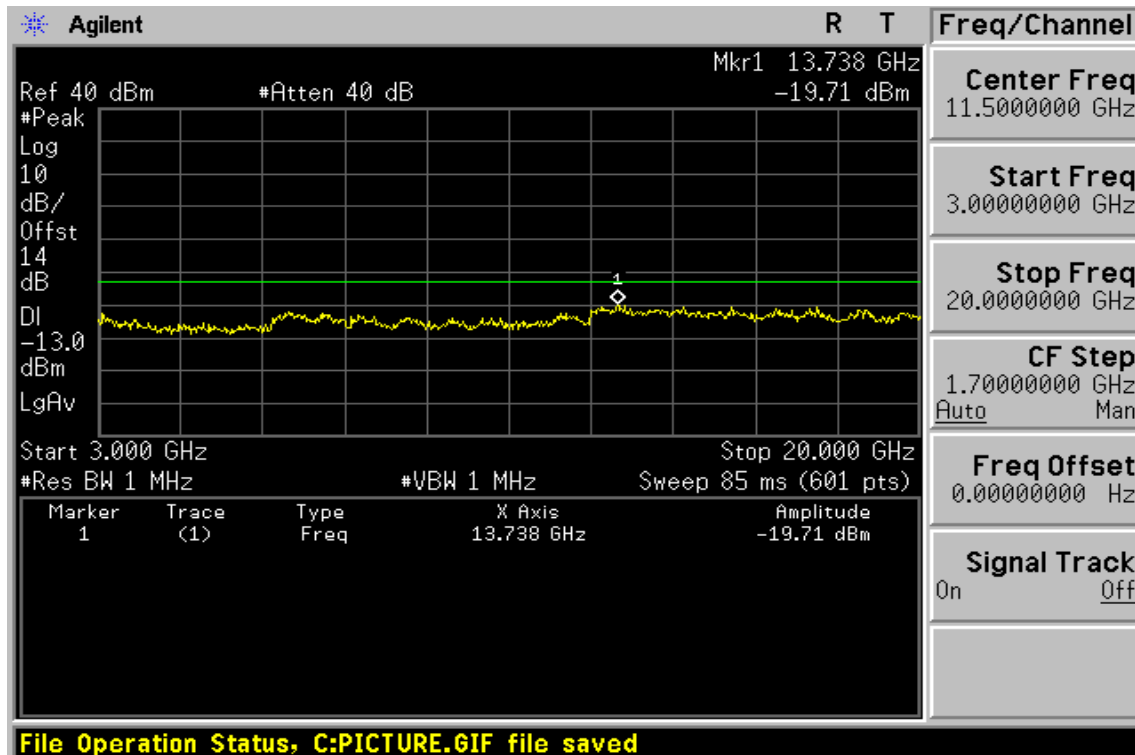
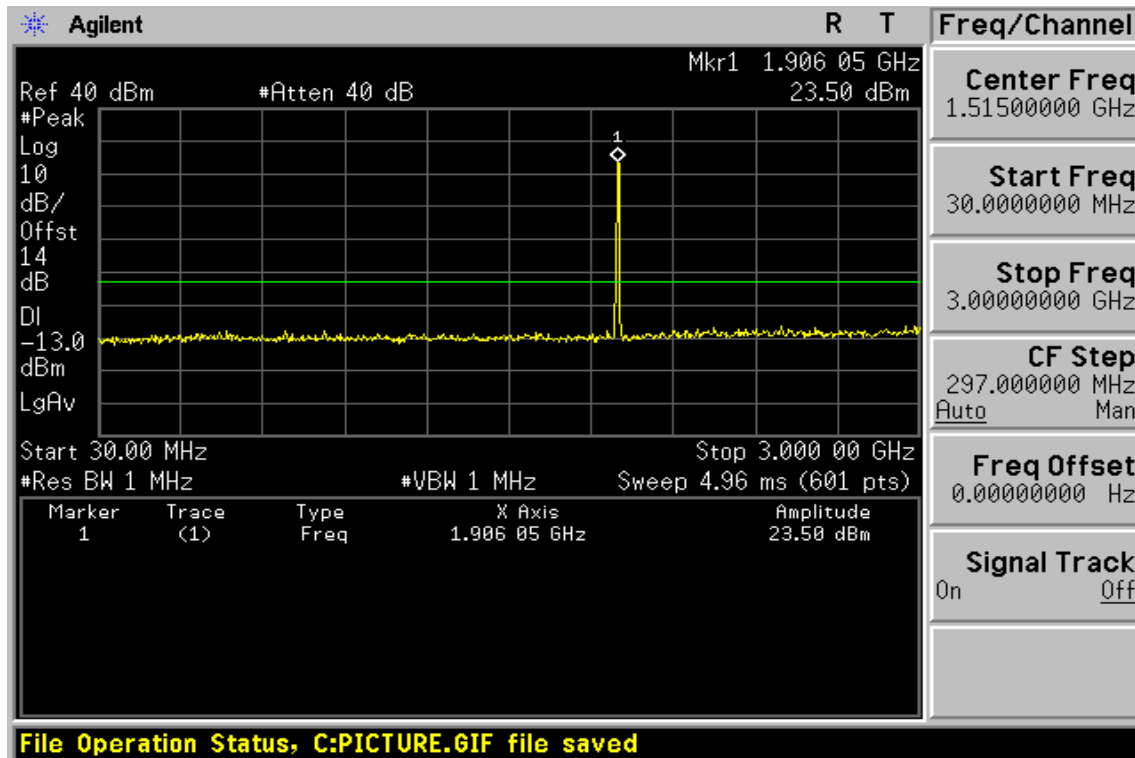
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**Figure 9-43: Out of Band emission at antenna terminals – HSDPA II Channel Highest**



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**Out of Band emission at antenna terminals – HSDPA II**

Fundamental Frequency :1852.4 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3704.80        | H               | ---            | -13.00       | ---                  |
| 5557.20        | H               | ---            | -13.00       | ---                  |
| 7409.60        | H               | ---            | -13.00       | ---                  |
| 9262.00        | H               | ---            | -13.00       | ---                  |
| 11114.40       | H               | ---            | -13.00       | ---                  |
| 12966.80       | H               | ---            | -13.00       | ---                  |
| 13568.00       | S               | -20.23         | -13.00       | 7.23                 |
| 14819.20       | H               | ---            | -13.00       | ---                  |
| 16671.60       | H               | ---            | -13.00       | ---                  |
| 18524.00       | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz  
Operation Mode :TX Mid

Engineer :Nick

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3760.00        | H               | ---            | -13.00       | ---                  |
| 5640.00        | H               | ---            | -13.00       | ---                  |
| 7520.00        | H               | ---            | -13.00       | ---                  |
| 9400.00        | H               | ---            | -13.00       | ---                  |
| 11280.00       | H               | ---            | -13.00       | ---                  |
| 13160.00       | H               | ---            | -13.00       | ---                  |
| 14588.00       | S               | -20.13         | -13.00       | 7.13                 |
| 15040.00       | H               | ---            | -13.00       | ---                  |
| 16920.00       | H               | ---            | -13.00       | ---                  |
| 18800.00       | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1907.6MHz  
Operation Mode :TX High

Engineer :Nick

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3815.20        | H               | ---            | -13.00       | ---                  |
| 5722.80        | H               | ---            | -13.00       | ---                  |
| 7630.40        | H               | ---            | -13.00       | ---                  |
| 9538.00        | H               | ---            | -13.00       | ---                  |
| 11445.60       | H               | ---            | -13.00       | ---                  |
| 13353.20       | H               | ---            | -13.00       | ---                  |
| 13738.00       | S               | -19.71         | -13.00       | 6.71                 |
| 15260.80       | H               | ---            | -13.00       | ---                  |
| 17168.40       | H               | ---            | -13.00       | ---                  |
| 19076.00       | H               | ---            | -13.00       | ---                  |

Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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Figure 9-44: Band edge emission at antenna terminals – HSDPA II Channel Lowest

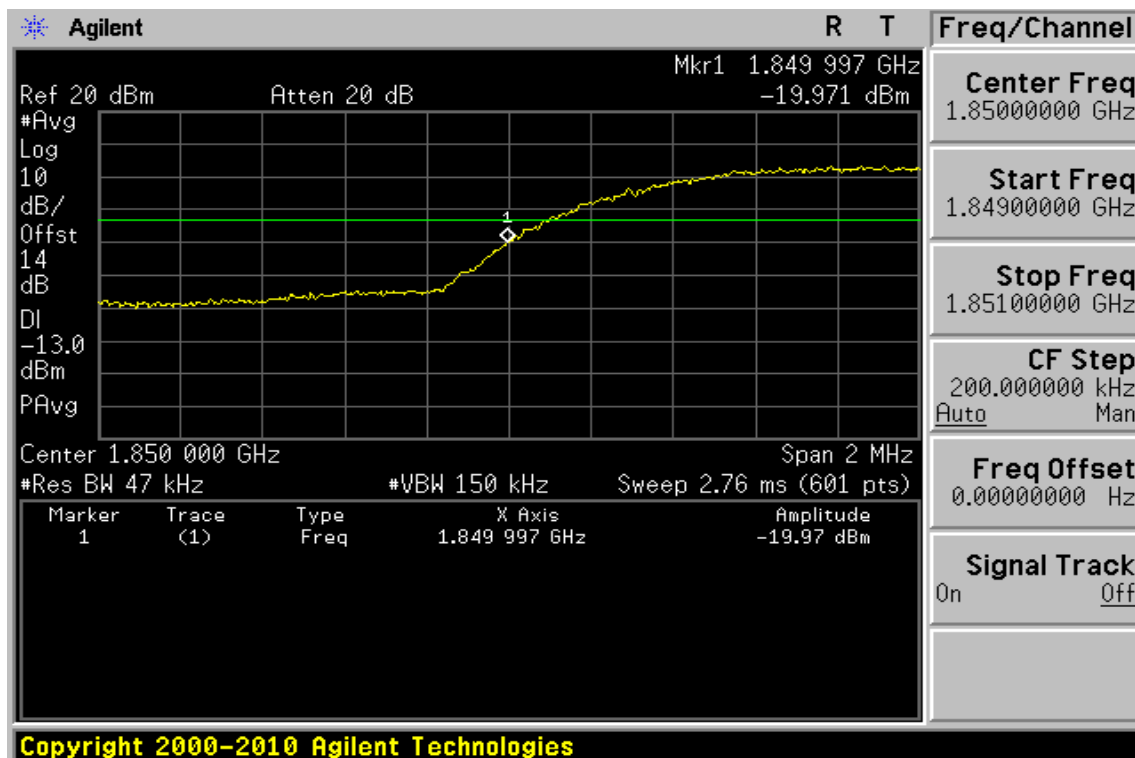
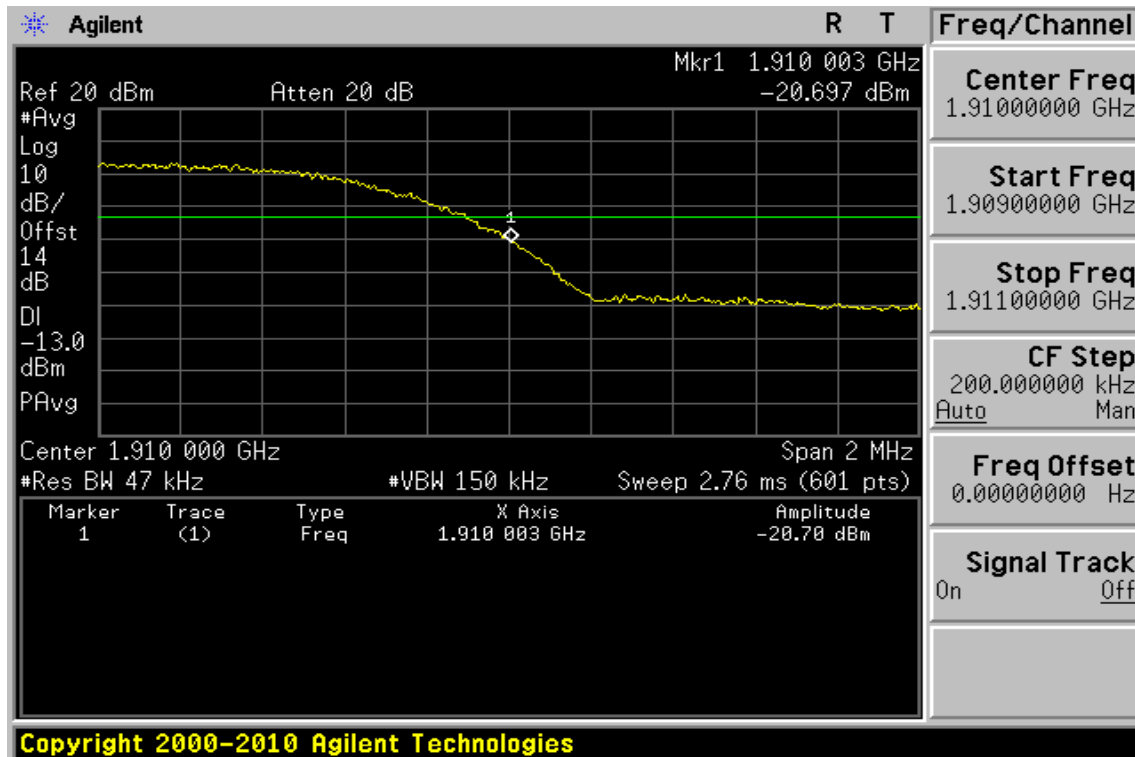


Figure 9-50: Band edge emission at antenna terminals – HSDPA II Channel Highest



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**Band edge emission at antenna terminals – HSDPA II Low & High**

Test Mode

HSDPA II

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 1849.997     | -19.97         | -13.00       | 6.97                 |
| 1910.003     | -20.70         | -13.00       | 7.70                 |

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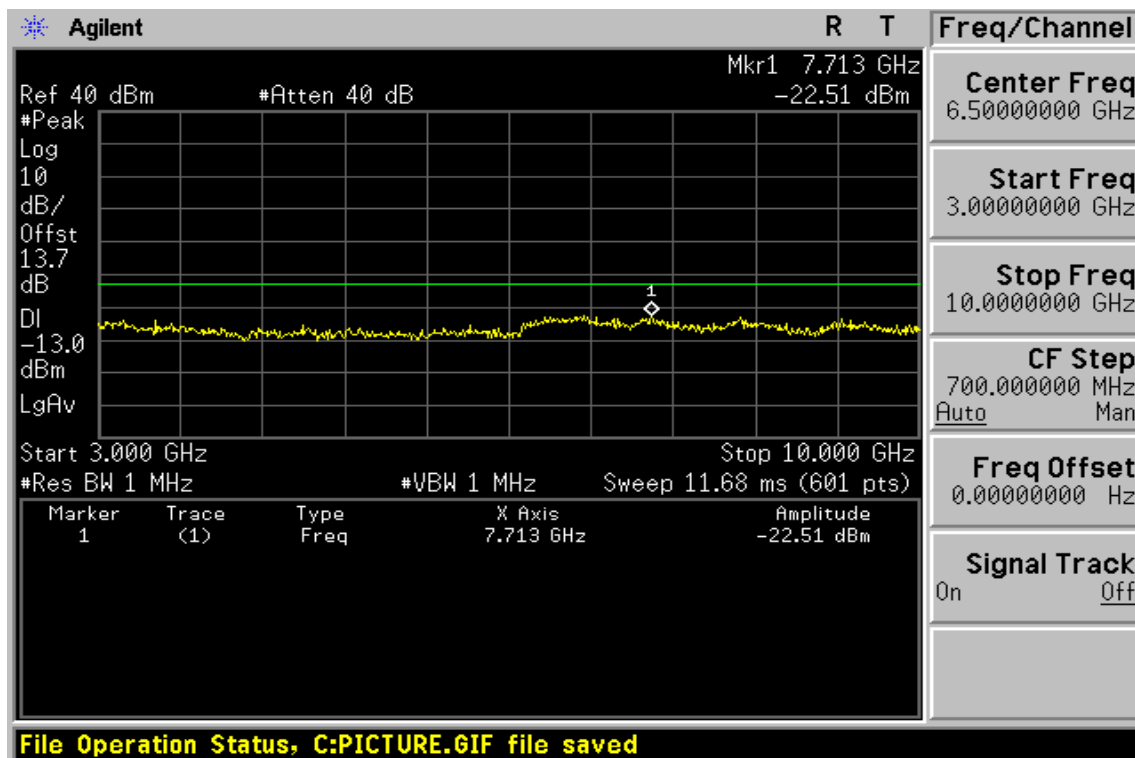
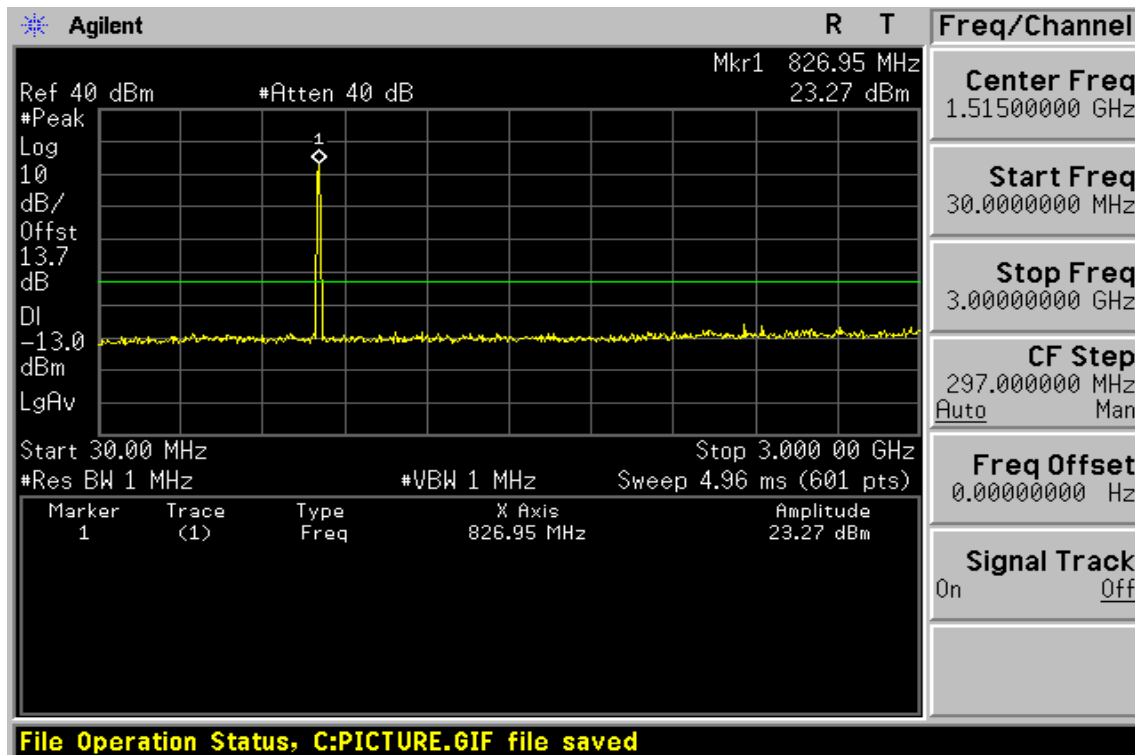
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Figure 9-45: Out of Band emission at antenna terminals – HSDPA V Channel Lowest

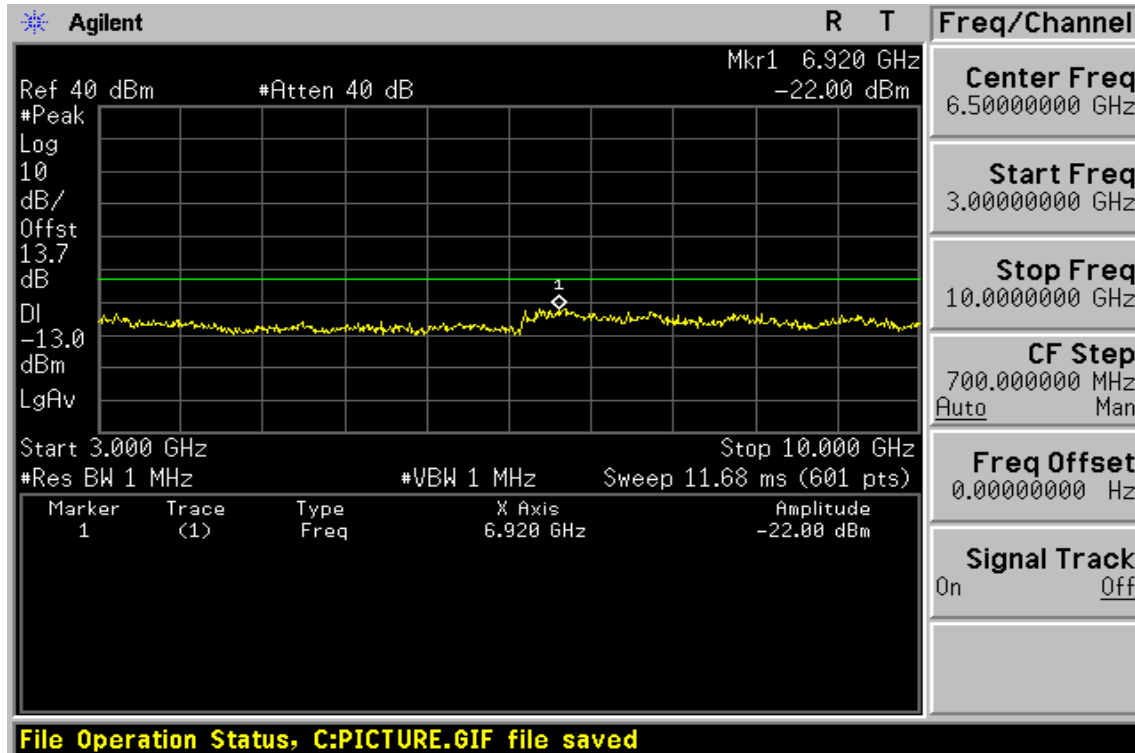
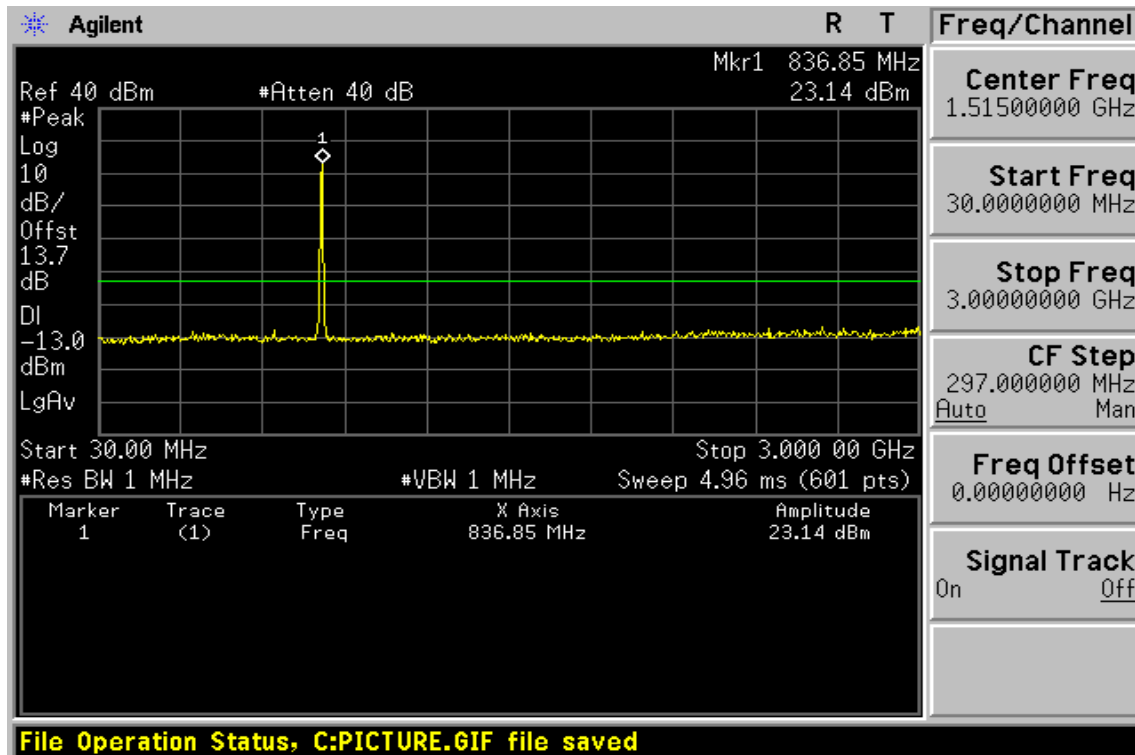


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**Figure 9-46: Out of Band emission at antenna terminals – HSDPA V Channel Mid**



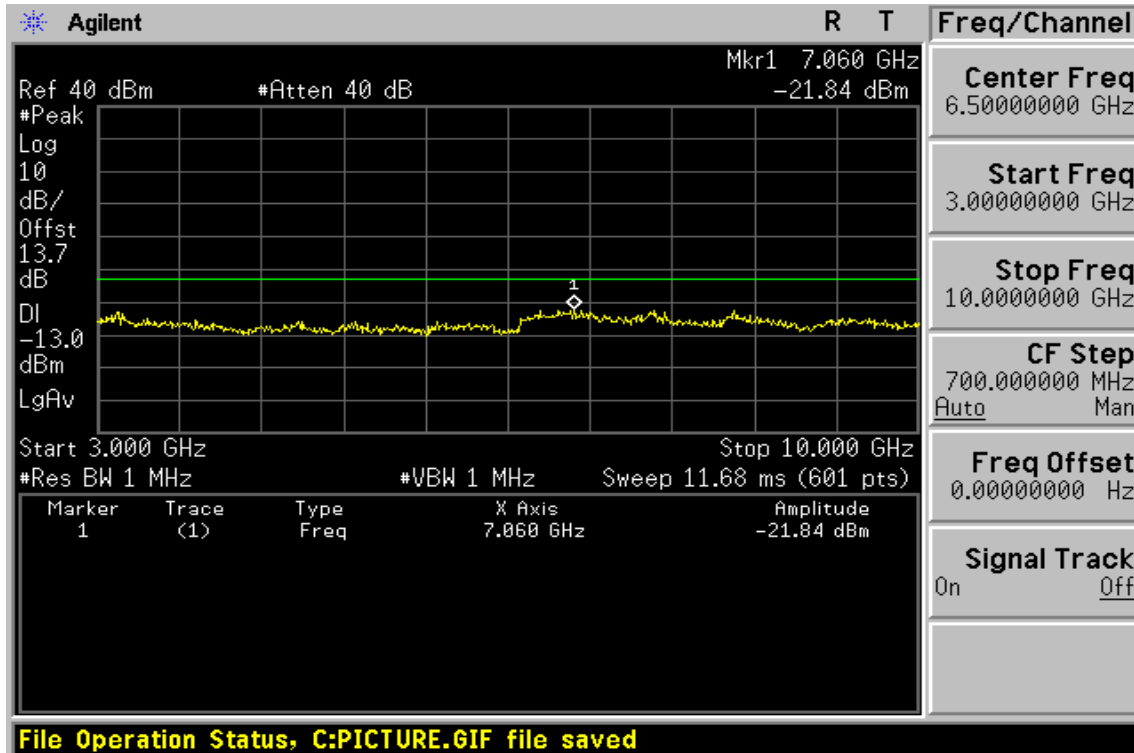
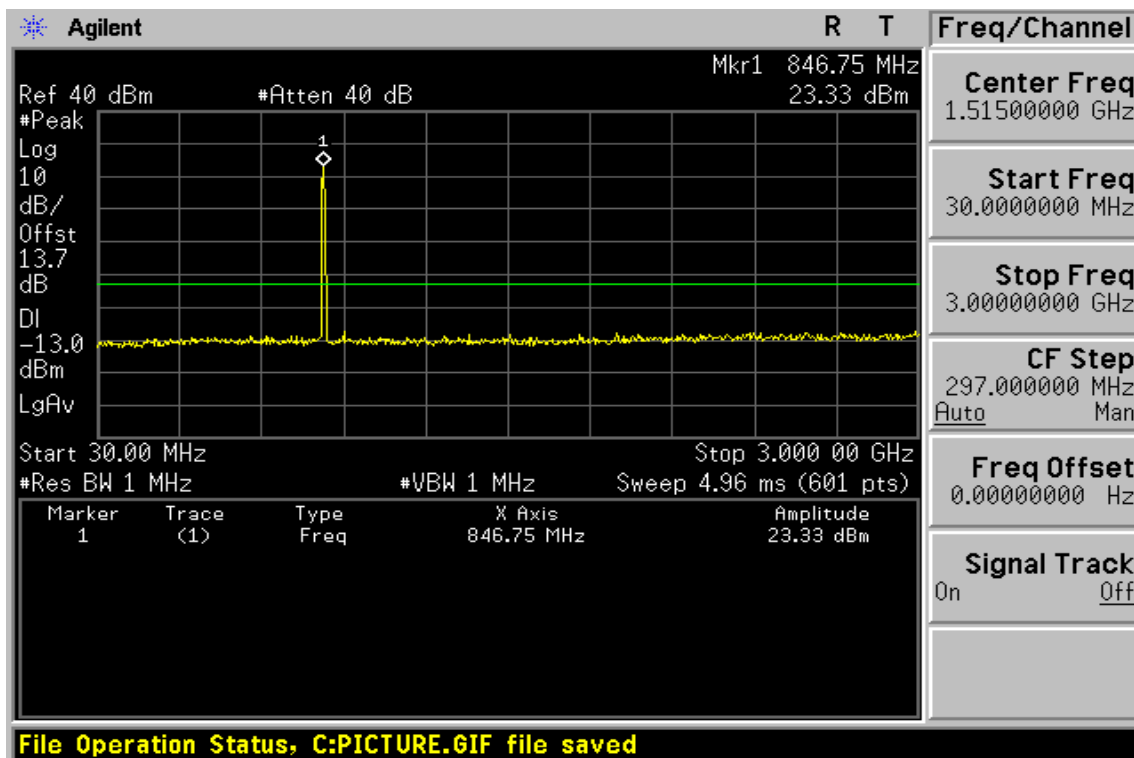
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**Figure 9-47: Out of Band emission at antenna terminals – HSDPA V Channel Highest**



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# Out of Band emission at antenna terminals – HSDPA V

Fundamental Frequency :826.4 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1652.80        | H               | ---            | -13.00       | ---                  |
| 2479.20        | H               | ---            | -13.00       | ---                  |
| 3305.60        | H               | ---            | -13.00       | ---                  |
| 4132.00        | H               | ---            | -13.00       | ---                  |
| 4958.40        | H               | ---            | -13.00       | ---                  |
| 5784.80        | H               | ---            | -13.00       | ---                  |
| 6611.20        | H               | ---            | -13.00       | ---                  |
| 7437.60        | H               | ---            | -13.00       | ---                  |
| 7713.00        | S               | -22.51         | -13.00       | 9.51                 |
| 8264.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Nick  
Operation Mode :TX Mid

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1673.20        | H               | ---            | -13.00       | ---                  |
| 2509.80        | H               | ---            | -13.00       | ---                  |
| 3346.40        | H               | ---            | -13.00       | ---                  |
| 4183.00        | H               | ---            | -13.00       | ---                  |
| 5019.60        | H               | ---            | -13.00       | ---                  |
| 5856.20        | H               | ---            | -13.00       | ---                  |
| 6692.80        | H               | ---            | -13.00       | ---                  |
| 6920.00        | S               | -22            | -13.00       | 9.00                 |
| 7529.40        | H               | ---            | -13.00       | ---                  |
| 8366.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :846.6MHz  
Operation Mode :TX High

Engineer :Nick

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1693.20        | H               | ---            | -13.00       | ---                  |
| 2539.80        | H               | ---            | -13.00       | ---                  |
| 3386.40        | H               | ---            | -13.00       | ---                  |
| 4233.00        | H               | ---            | -13.00       | ---                  |
| 5079.60        | H               | ---            | -13.00       | ---                  |
| 5926.20        | H               | ---            | -13.00       | ---                  |
| 6772.80        | H               | ---            | -13.00       | ---                  |
| 7060.00        | S               | -21.84         | -13.00       | 8.84                 |
| 7619.40        | H               | ---            | -13.00       | ---                  |
| 8466.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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**Figure 9-48: Band edge emission at antenna terminals – HSDPA V Channel Lowest**



**Figure 9-49: Band edge emission at antenna terminals – HSDPA V Channel Highest**



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**Band edge emission at antenna terminals – HSDPA V Low & High**

Test Mode

HSDPA V

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 823.997      | -20.79         | -13.00       | 7.79                 |
| 849.003      | -20.88         | -13.00       | 7.88                 |

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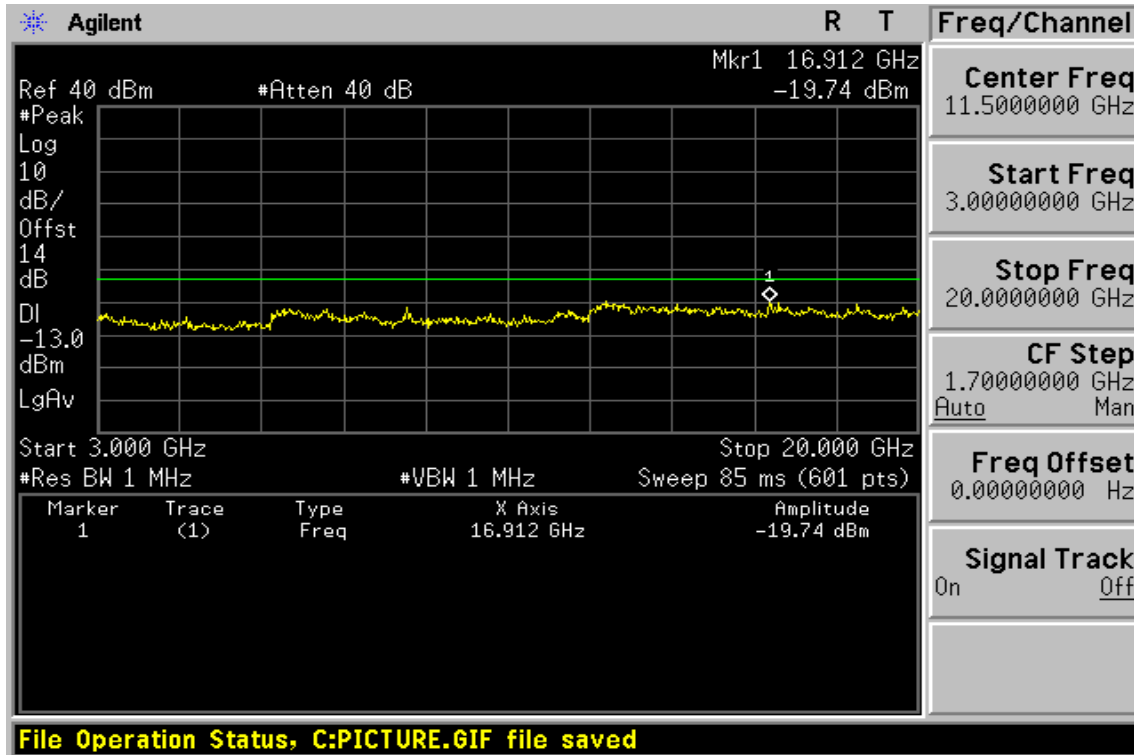
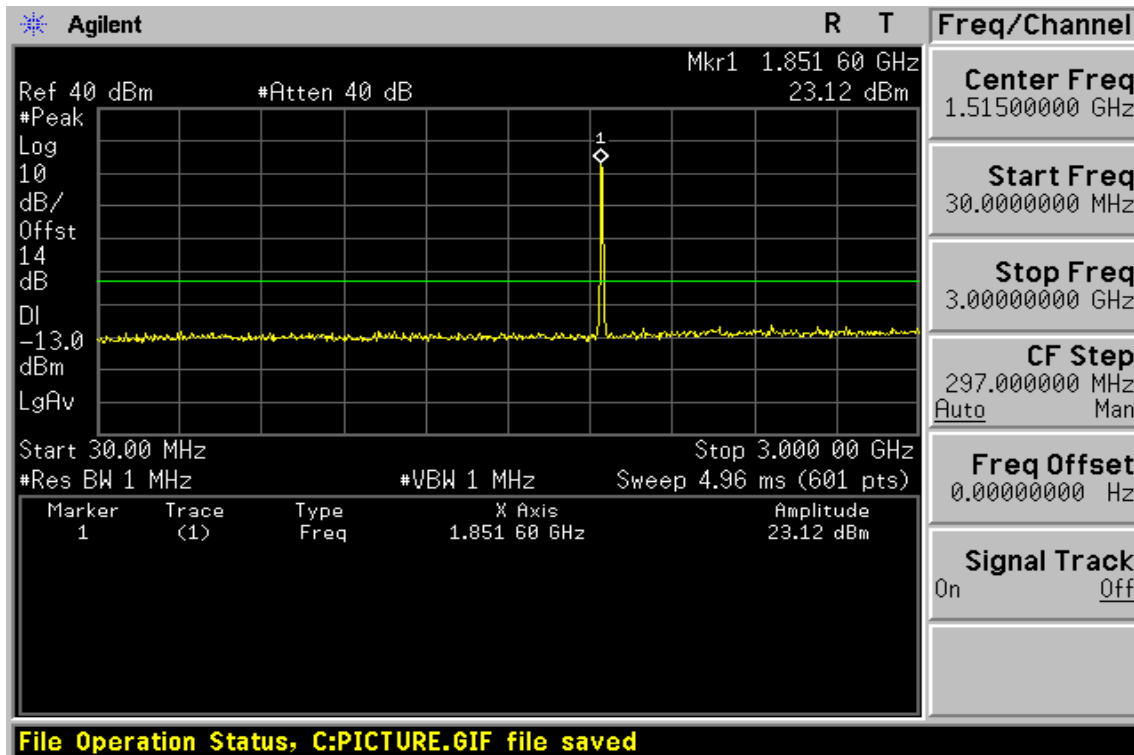
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Figure 9-50: Out of Band emission at antenna terminals – HSUPA II Channel Lowest

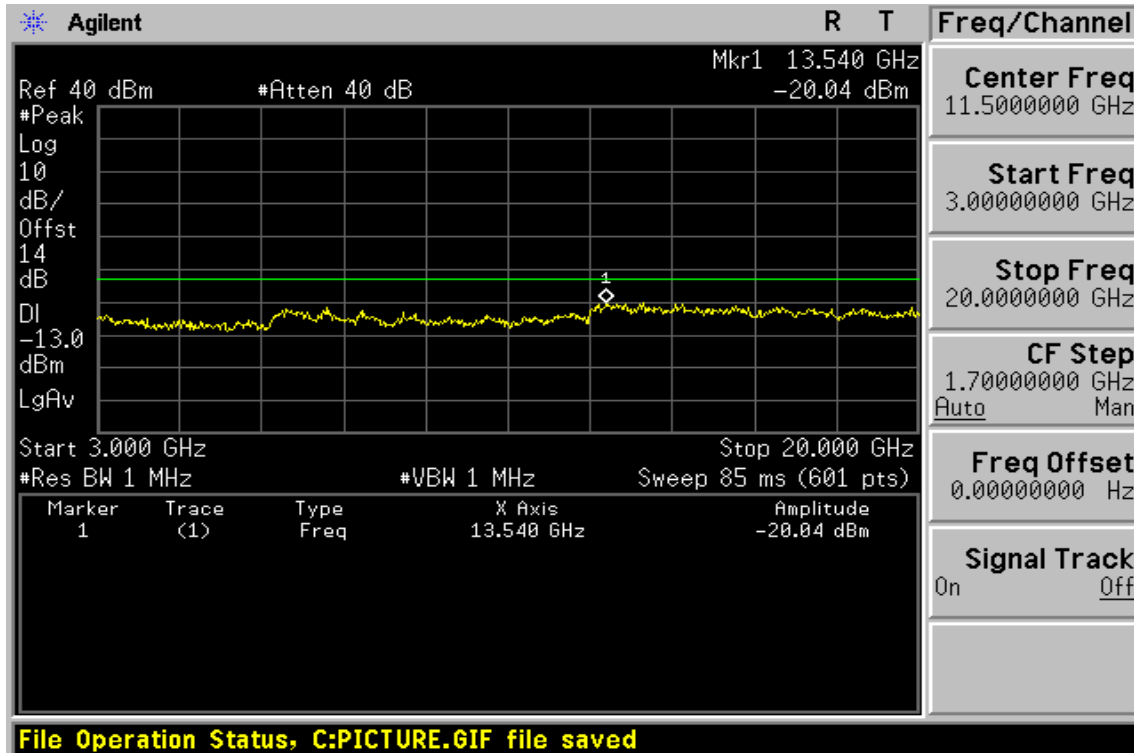
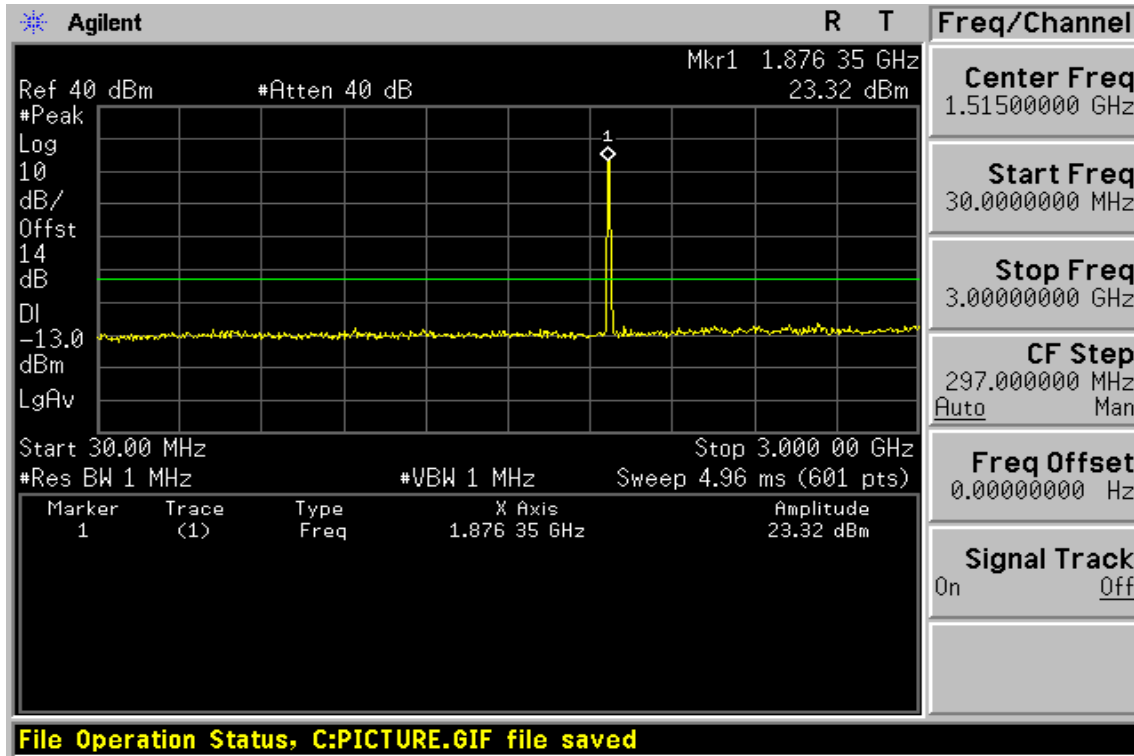


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Figure 9-51: Out of Band emission at antenna terminals – HSUPA II Channel Mid



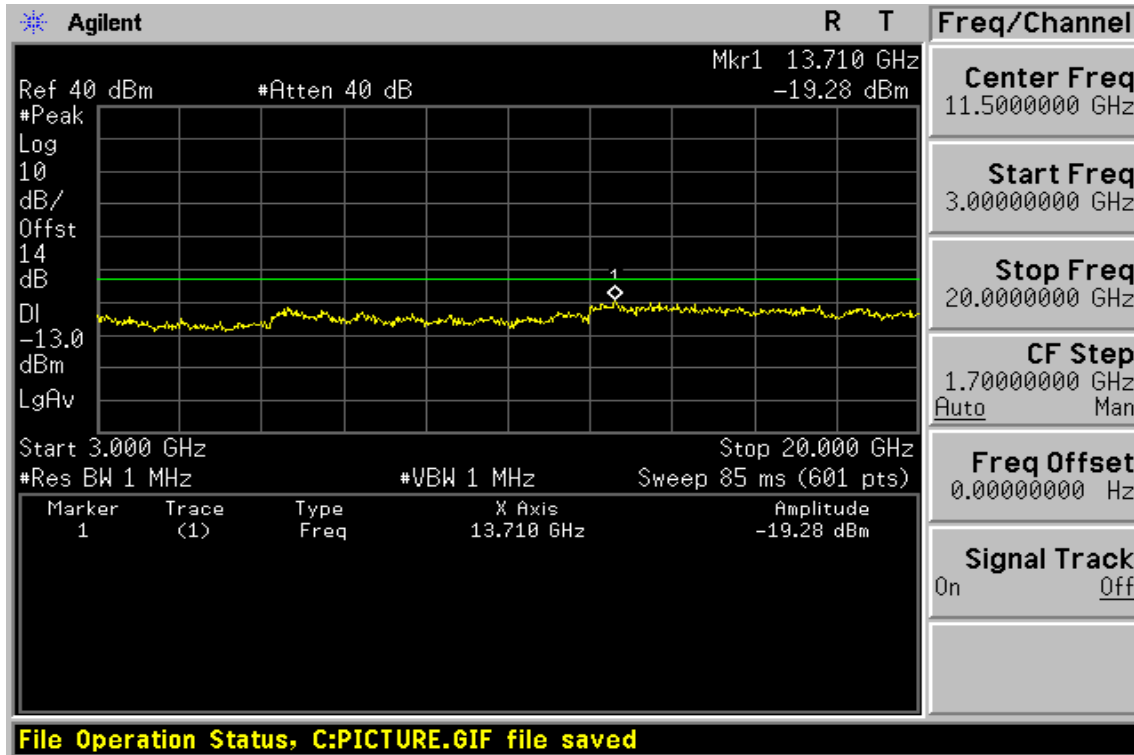
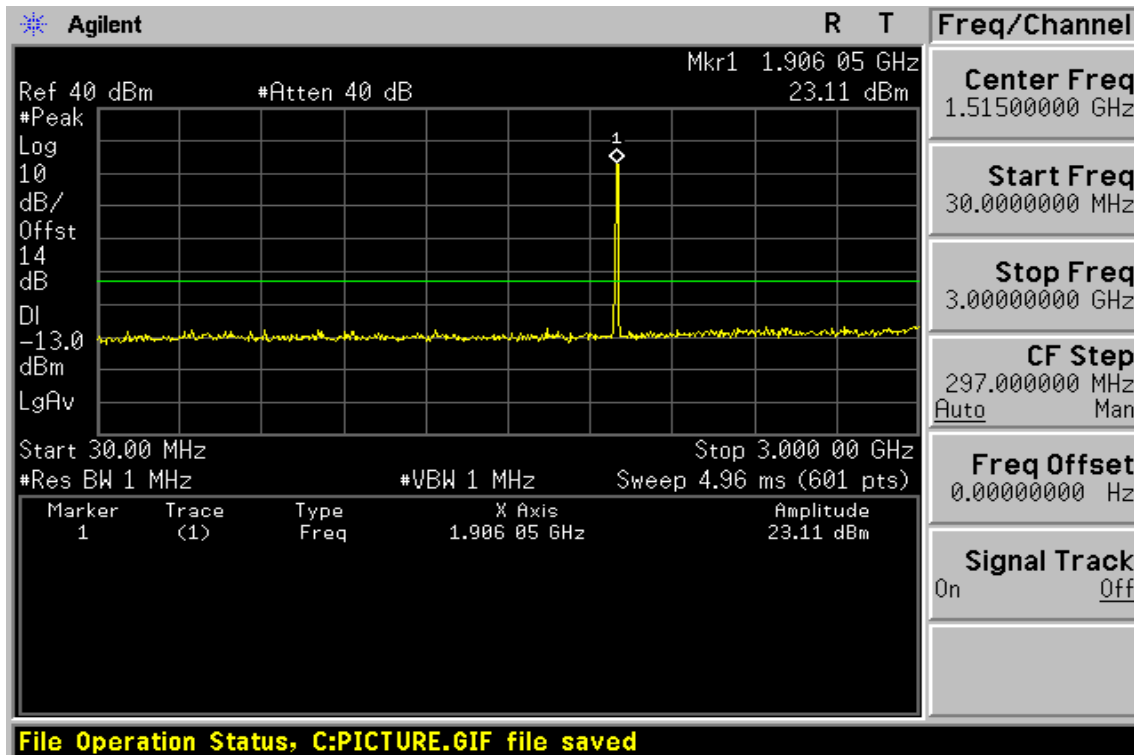
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Figure 9-52: Out of Band emission at antenna terminals – HSUPA II Channel Highest



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**Out of Band emission at antenna terminals – HSUPA II**

Fundamental Frequency :1852.4 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3704.80        | H               | ---            | -13.00       | ---                  |
| 5557.20        | H               | ---            | -13.00       | ---                  |
| 7409.60        | H               | ---            | -13.00       | ---                  |
| 9262.00        | H               | ---            | -13.00       | ---                  |
| 11114.40       | H               | ---            | -13.00       | ---                  |
| 12966.80       | H               | ---            | -13.00       | ---                  |
| 14819.20       | H               | ---            | -13.00       | ---                  |
| 16671.60       | H               | ---            | -13.00       | ---                  |
| 16912.00       | S               | -19.74         | -13.00       | 6.74                 |
| 18524.00       | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick  
Operation Mode :TX Mid

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3760.00        | H               | ---            | -13.00       | ---                  |
| 5640.00        | H               | ---            | -13.00       | ---                  |
| 7520.00        | H               | ---            | -13.00       | ---                  |
| 9400.00        | H               | ---            | -13.00       | ---                  |
| 11280.00       | H               | ---            | -13.00       | ---                  |
| 13160.00       | H               | ---            | -13.00       | ---                  |
| 13540.00       | S               | -20.04         | -13.00       | 7.04                 |
| 15040.00       | H               | ---            | -13.00       | ---                  |
| 16920.00       | H               | ---            | -13.00       | ---                  |
| 18800.00       | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1907.6MHz  
Operation Mode :TX High

Engineer :Nick

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3815.20        | H               | ---            | -13.00       | ---                  |
| 5722.80        | H               | ---            | -13.00       | ---                  |
| 7630.40        | H               | ---            | -13.00       | ---                  |
| 9538.00        | H               | ---            | -13.00       | ---                  |
| 11445.60       | H               | ---            | -13.00       | ---                  |
| 13353.20       | H               | ---            | -13.00       | ---                  |
| 13710.00       | S               | -19.28         | -13.00       | 6.28                 |
| 15260.80       | H               | ---            | -13.00       | ---                  |
| 17168.40       | H               | ---            | -13.00       | ---                  |
| 19076.00       | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Figure 9-53: Band edge emission at antenna terminals – HSUPA II Channel Lowest

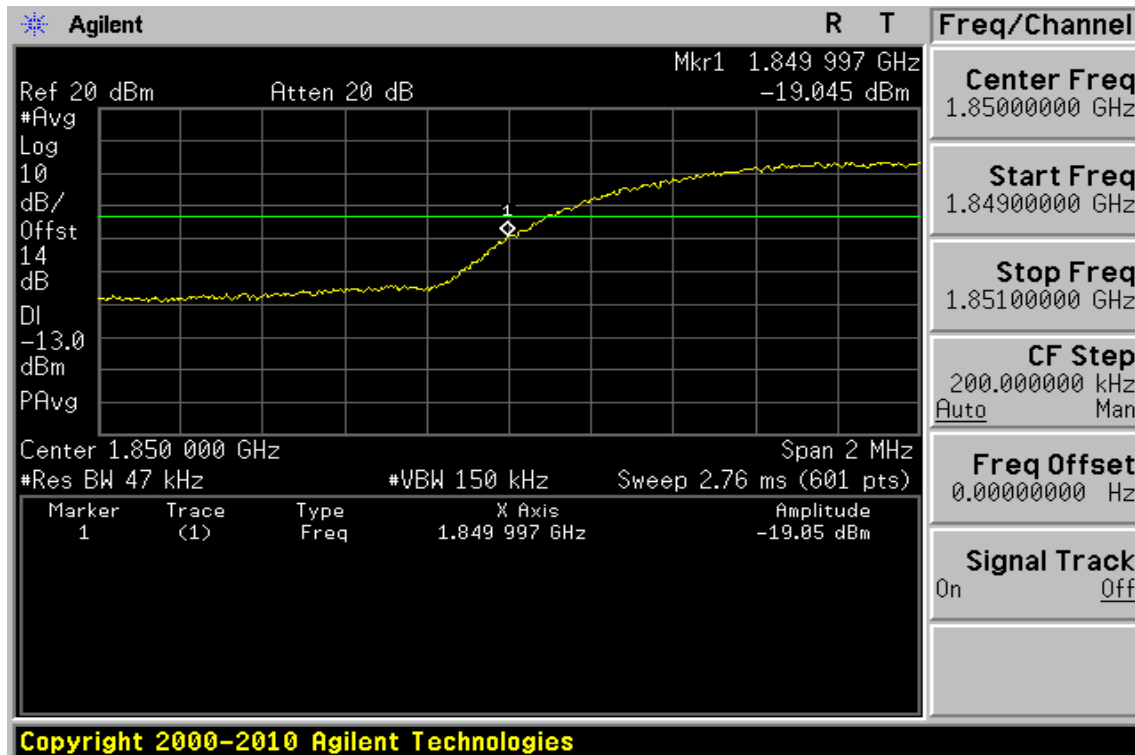
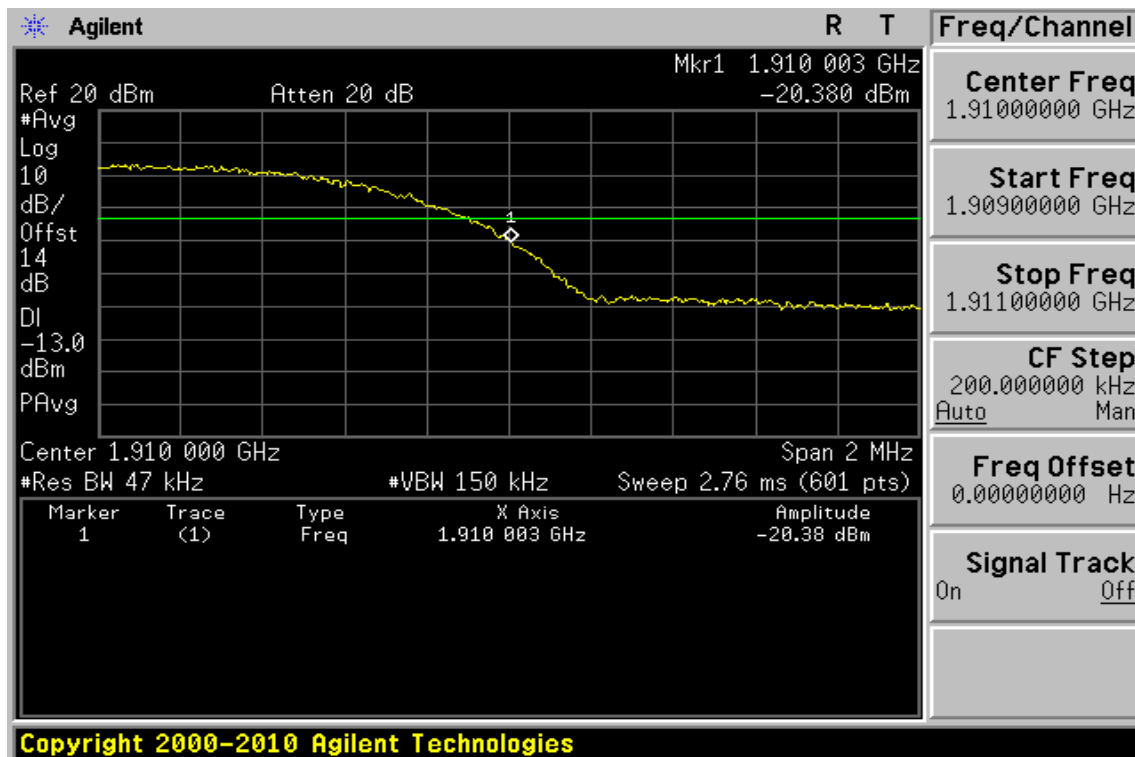


Figure 9-54: Band edge emission at antenna terminals – HSUPA II Channel Highest



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**Band edge emission at antenna terminals – HSUPA II Low & High**

Test Mode

HSUPA II

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 1849.997     | -19.05         | -13.00       | 6.05                 |
| 1910.003     | -20.38         | -13.00       | 7.38                 |

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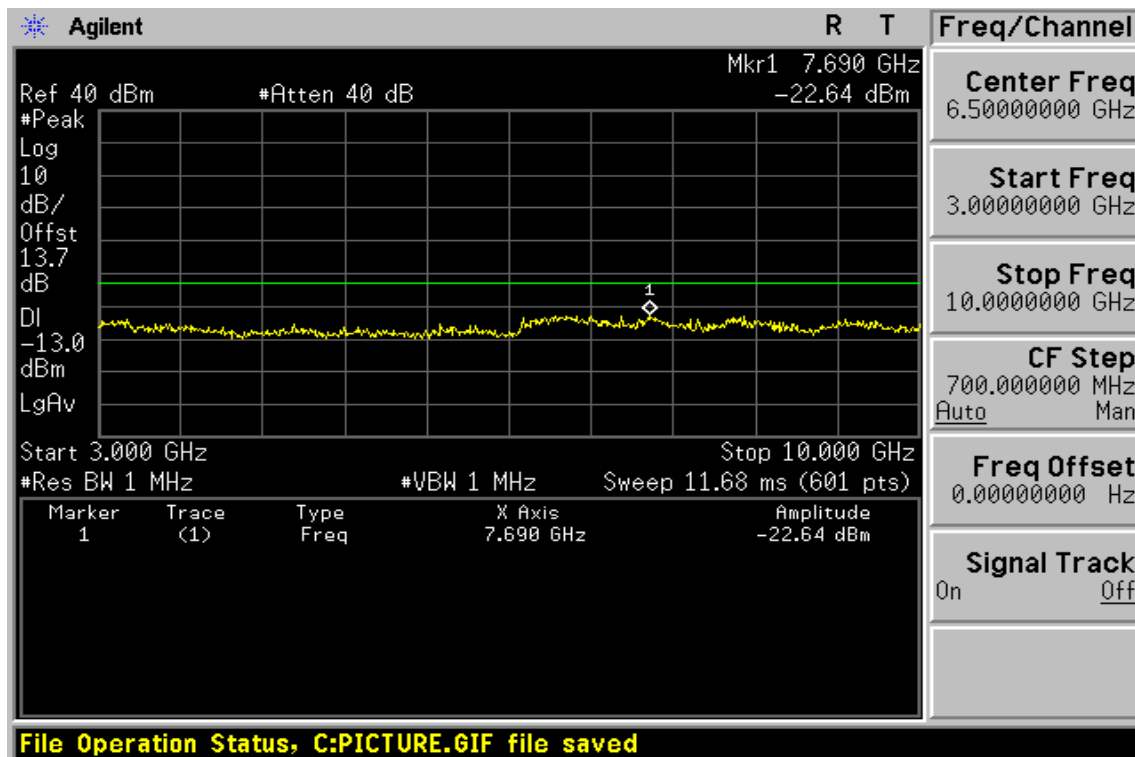
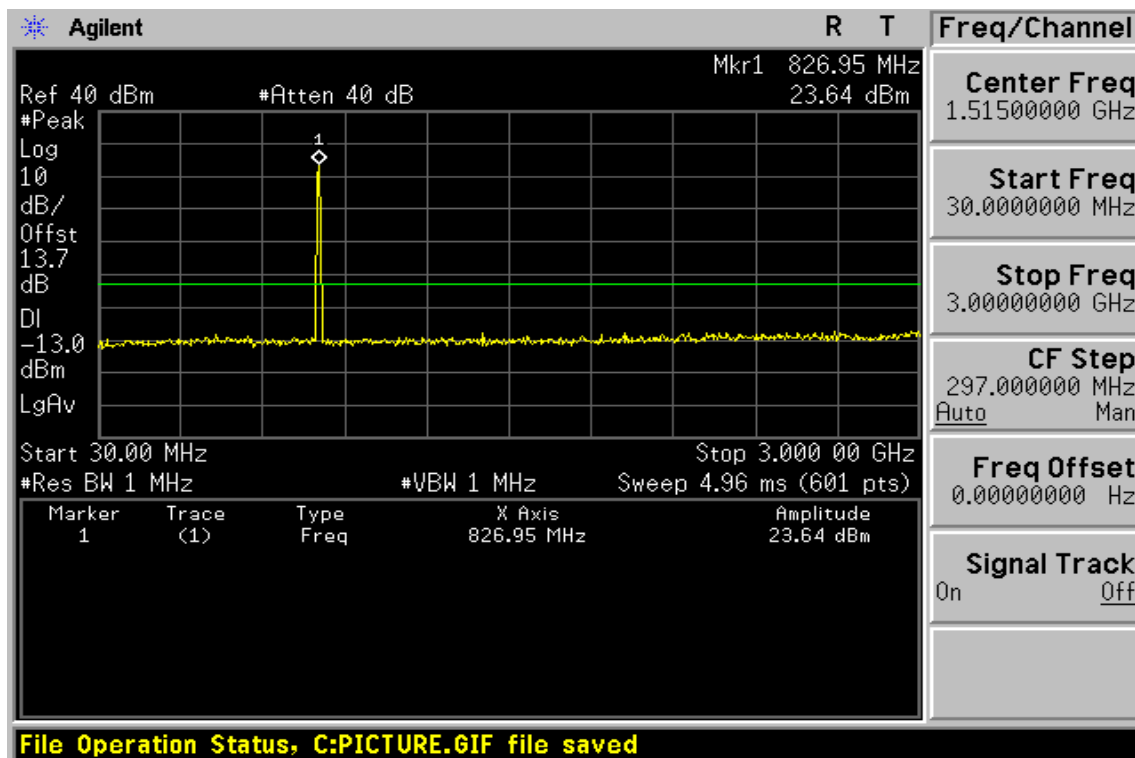
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Figure 9-55: Out of Band emission at antenna terminals – HSUPA V Channel Lowest

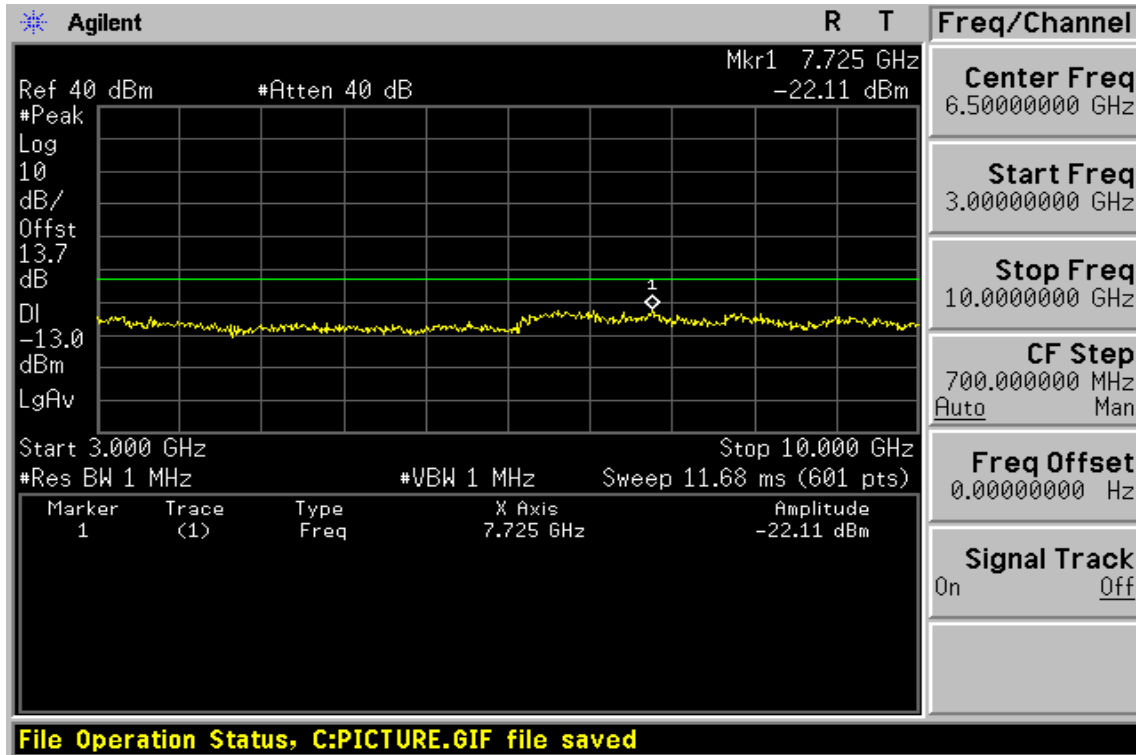
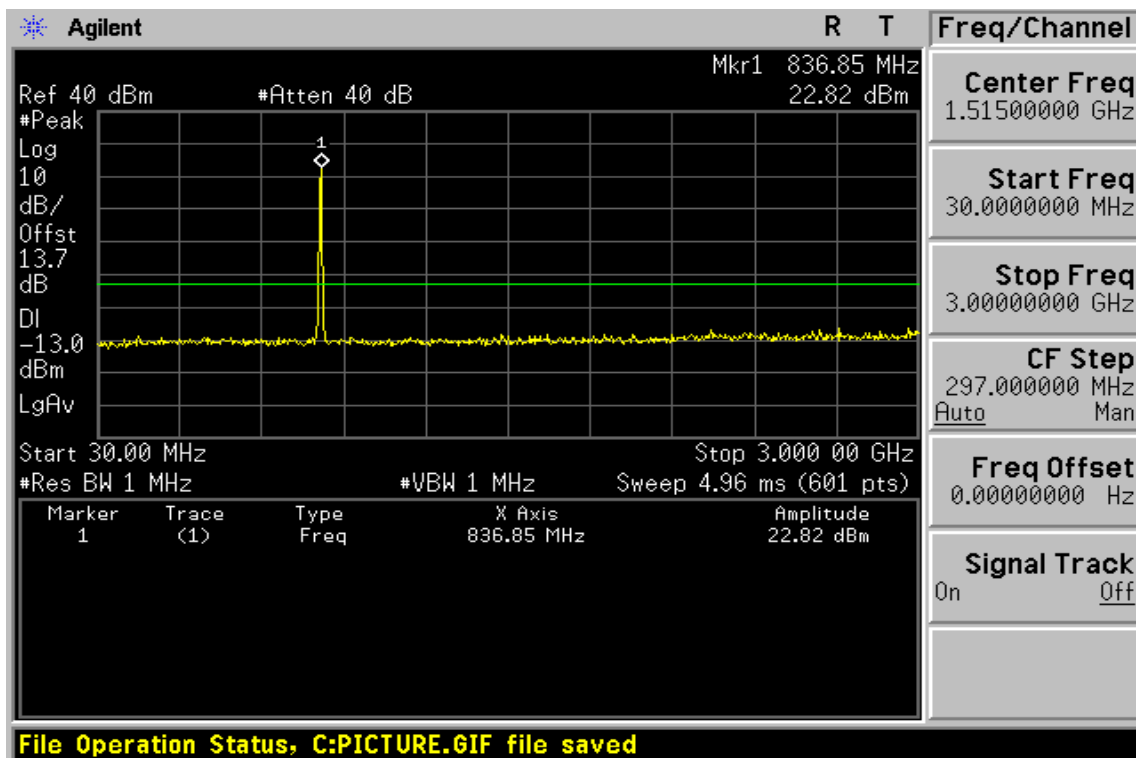


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Figure 9-56: Out of Band emission at antenna terminals – HSUPA V Channel Mid



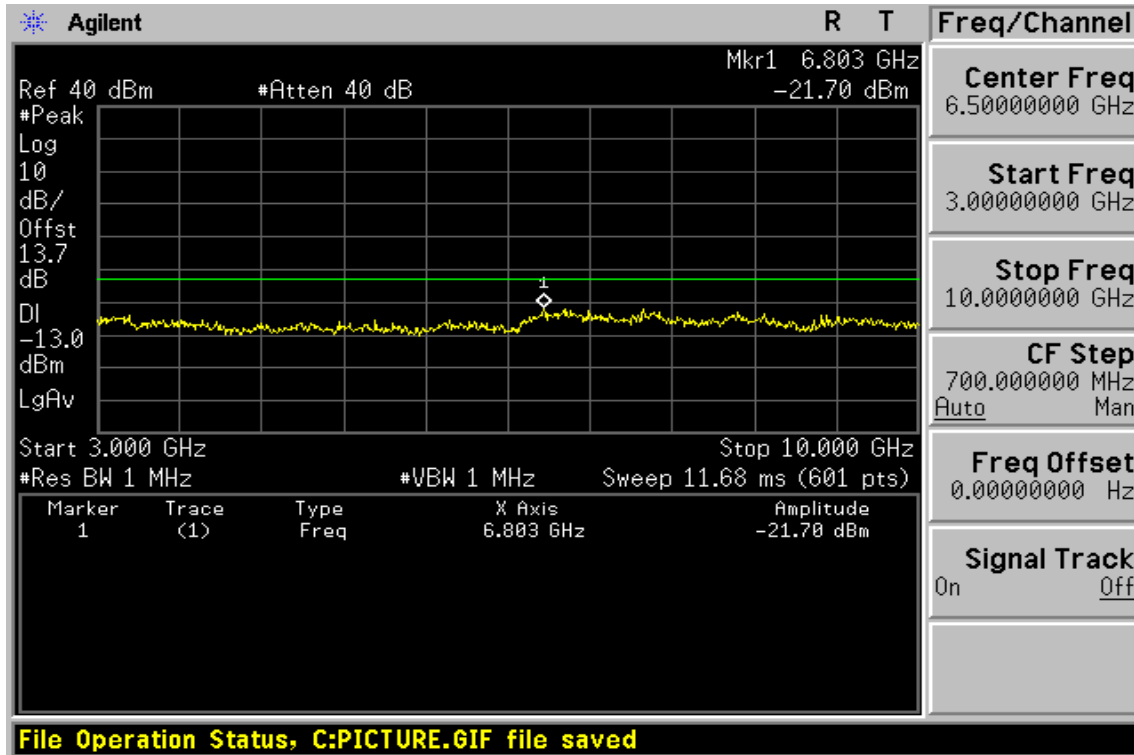
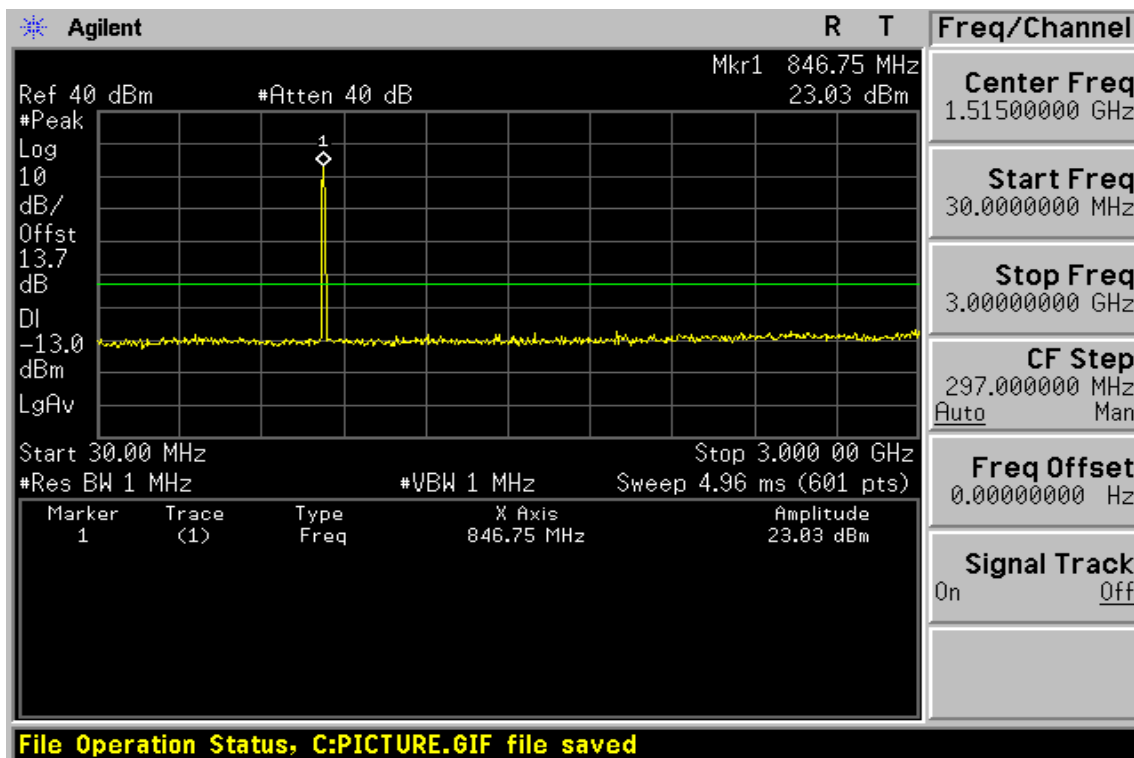
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Figure 9-57: Out of Band emission at antenna terminals – HSUPA V Channel Highest



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**Out of Band emission at antenna terminals – HSUPA V**

Fundamental Frequency :826.4 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1652.80        | H               | ---            | -13.00       | ---                  |
| 2479.20        | H               | ---            | -13.00       | ---                  |
| 3305.60        | H               | ---            | -13.00       | ---                  |
| 4132.00        | H               | ---            | -13.00       | ---                  |
| 4958.40        | H               | ---            | -13.00       | ---                  |
| 5784.80        | H               | ---            | -13.00       | ---                  |
| 6611.20        | H               | ---            | -13.00       | ---                  |
| 7437.60        | H               | ---            | -13.00       | ---                  |
| 7690.00        | S               | -22.64         | -13.00       | 9.64                 |
| 8264.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :836.6 MHz Engineer :Nick  
Operation Mode :TX Mid

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1673.20        | H               | ---            | -13.00       | ---                  |
| 2509.80        | H               | ---            | -13.00       | ---                  |
| 3346.40        | H               | ---            | -13.00       | ---                  |
| 4183.00        | H               | ---            | -13.00       | ---                  |
| 5019.60        | H               | ---            | -13.00       | ---                  |
| 5856.20        | H               | ---            | -13.00       | ---                  |
| 6692.80        | H               | ---            | -13.00       | ---                  |
| 7529.40        | H               | ---            | -13.00       | ---                  |
| 7725.00        | S               | -22.11         | -13.00       | 9.11                 |
| 8366.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :846.6MHz  
Operation Mode :TX High

Engineer :Nick

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1693.20        | H               | ---            | -13.00       | ---                  |
| 2539.80        | H               | ---            | -13.00       | ---                  |
| 3386.40        | H               | ---            | -13.00       | ---                  |
| 4233.00        | H               | ---            | -13.00       | ---                  |
| 5079.60        | H               | ---            | -13.00       | ---                  |
| 5926.20        | H               | ---            | -13.00       | ---                  |
| 6772.80        | H               | ---            | -13.00       | ---                  |
| 6803.00        | S               | -21.7          | -13.00       | 8.70                 |
| 7619.40        | H               | ---            | -13.00       | ---                  |
| 8466.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Figure 9-58: Band edge emission at antenna terminals – HSUPA V Channel Lowest

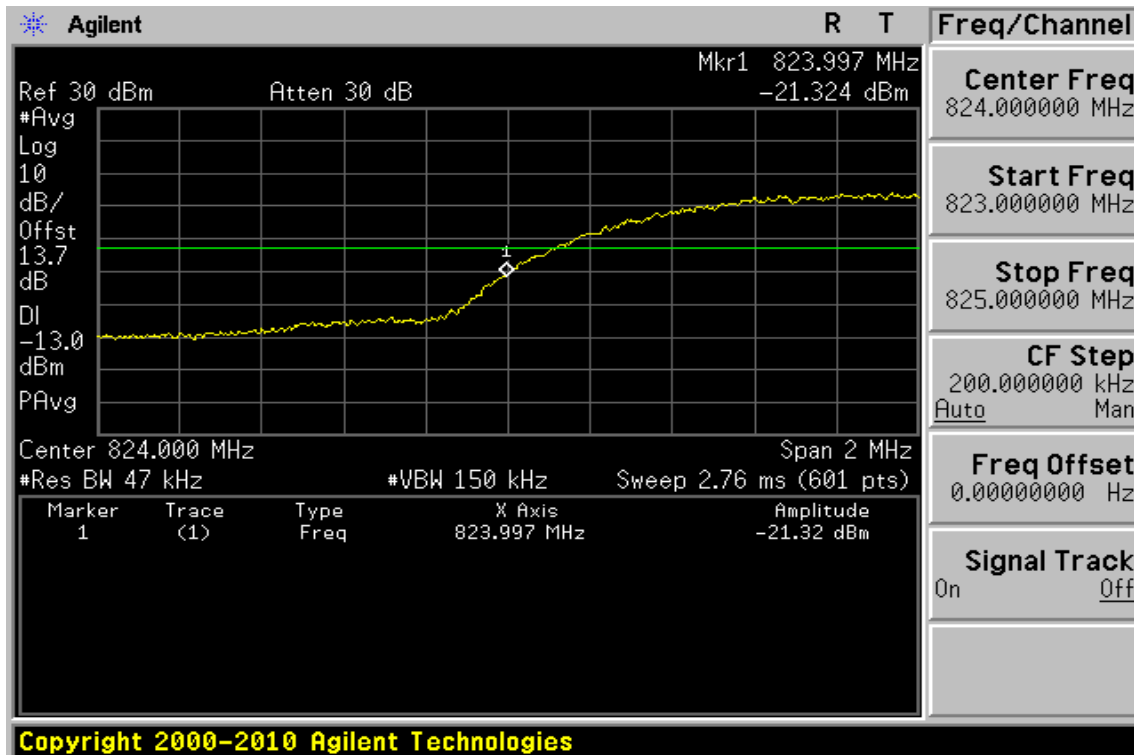
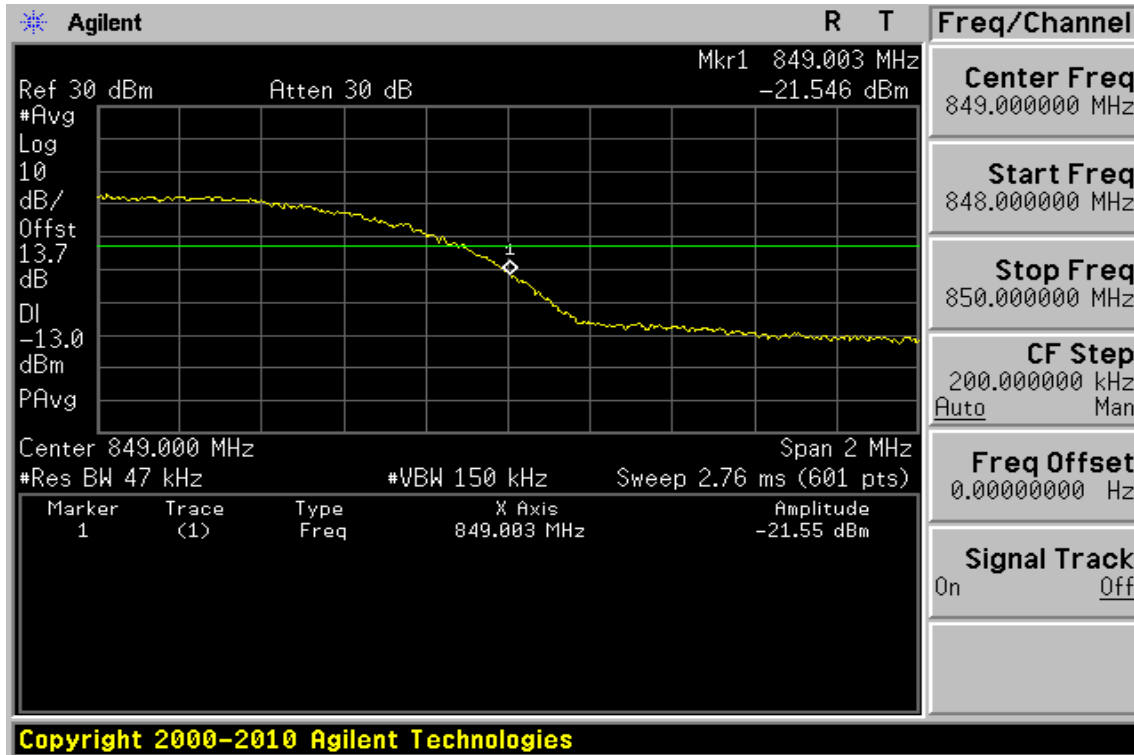


Figure 9-59: Band edge emission at antenna terminals – HSUPA V Channel Highest



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**Band edge emission at antenna terminals – HSUPA V Low & High**

Test Mode

HSUPA V

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 823.997      | -21.32         | -13.00       | 8.32                 |
| 849.003      | -21.55         | -13.00       | 8.55                 |

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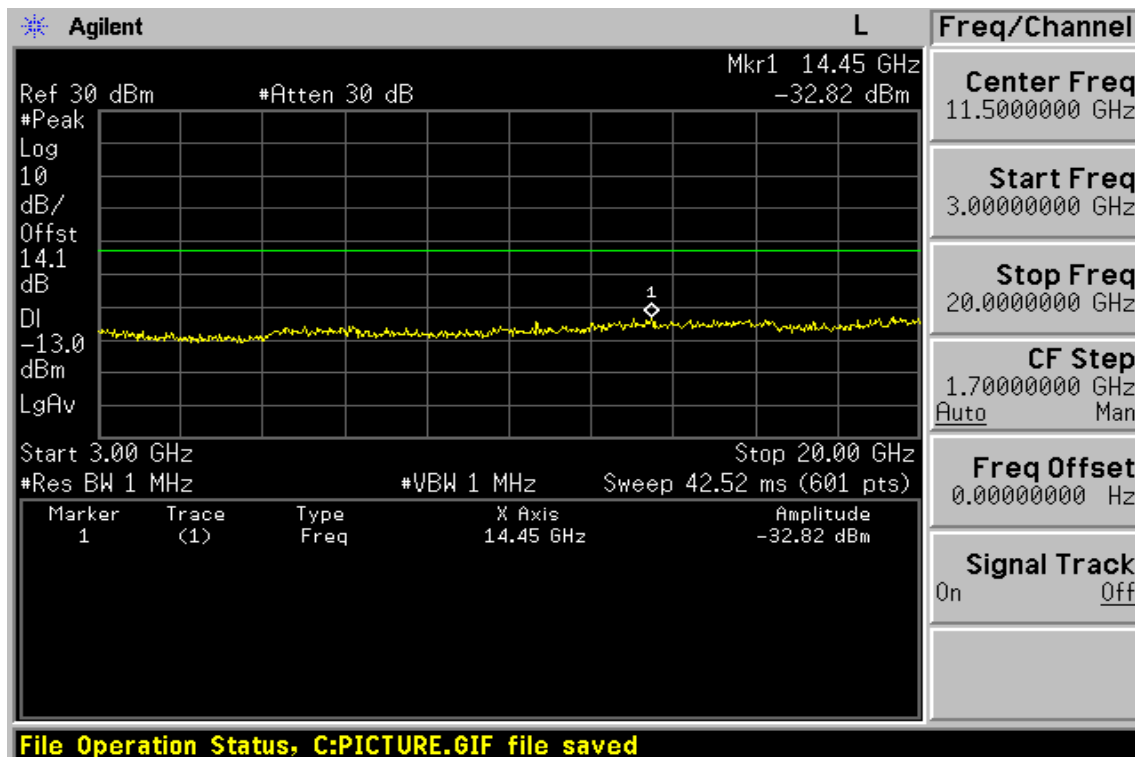
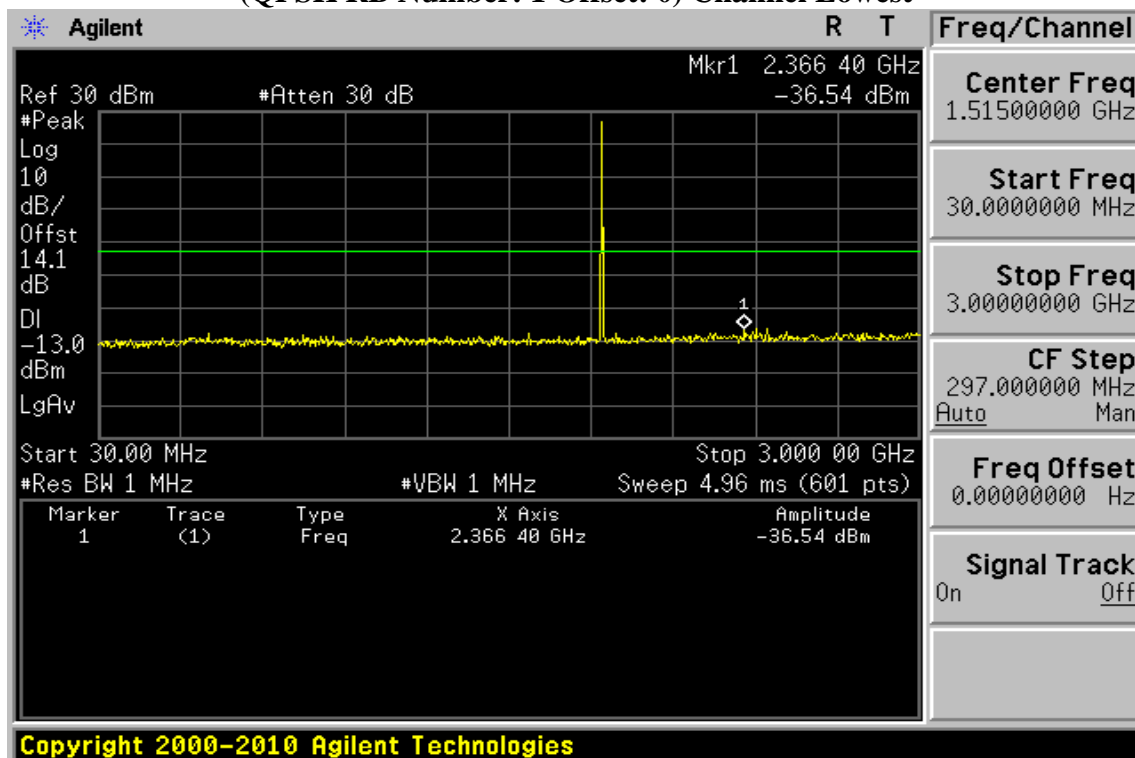
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**Figure 9-60: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest**

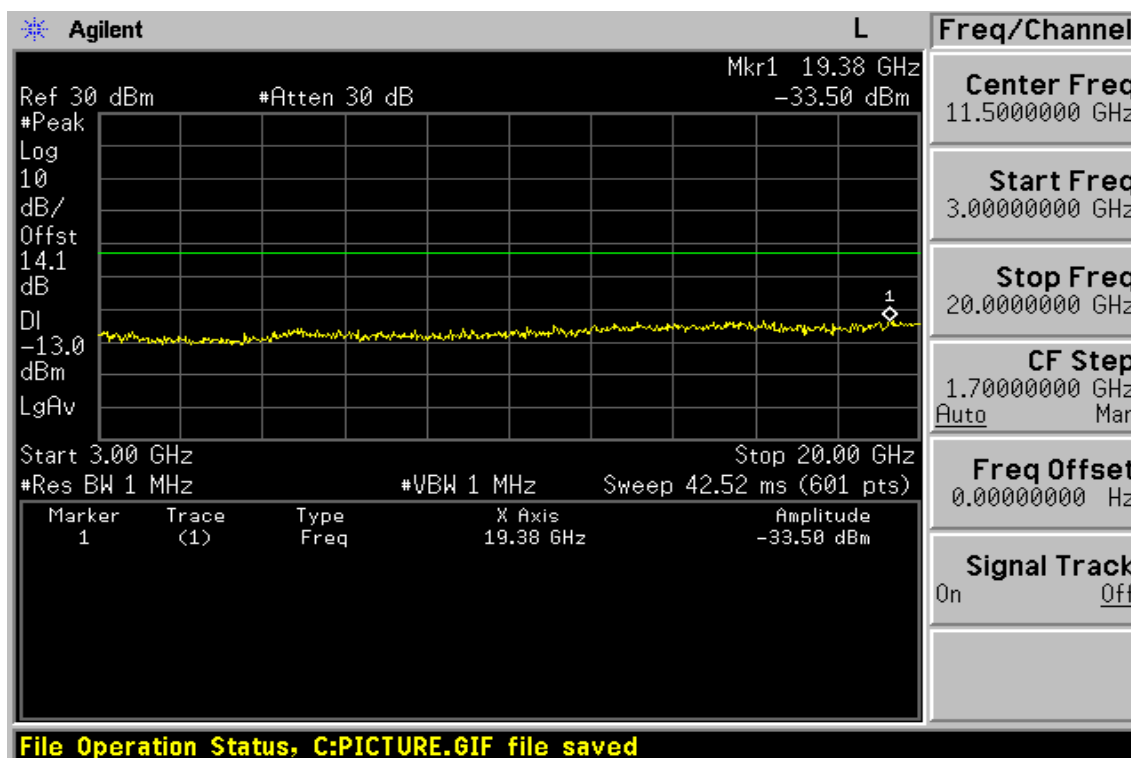
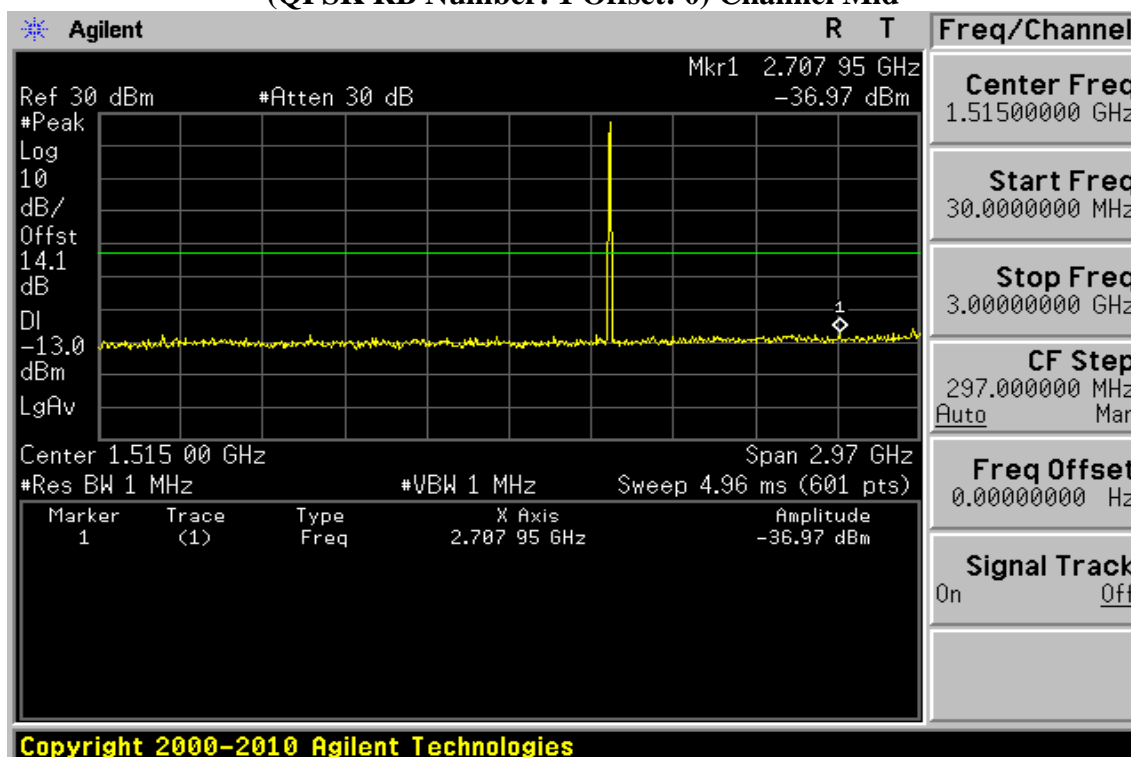


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**Figure 9-61: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



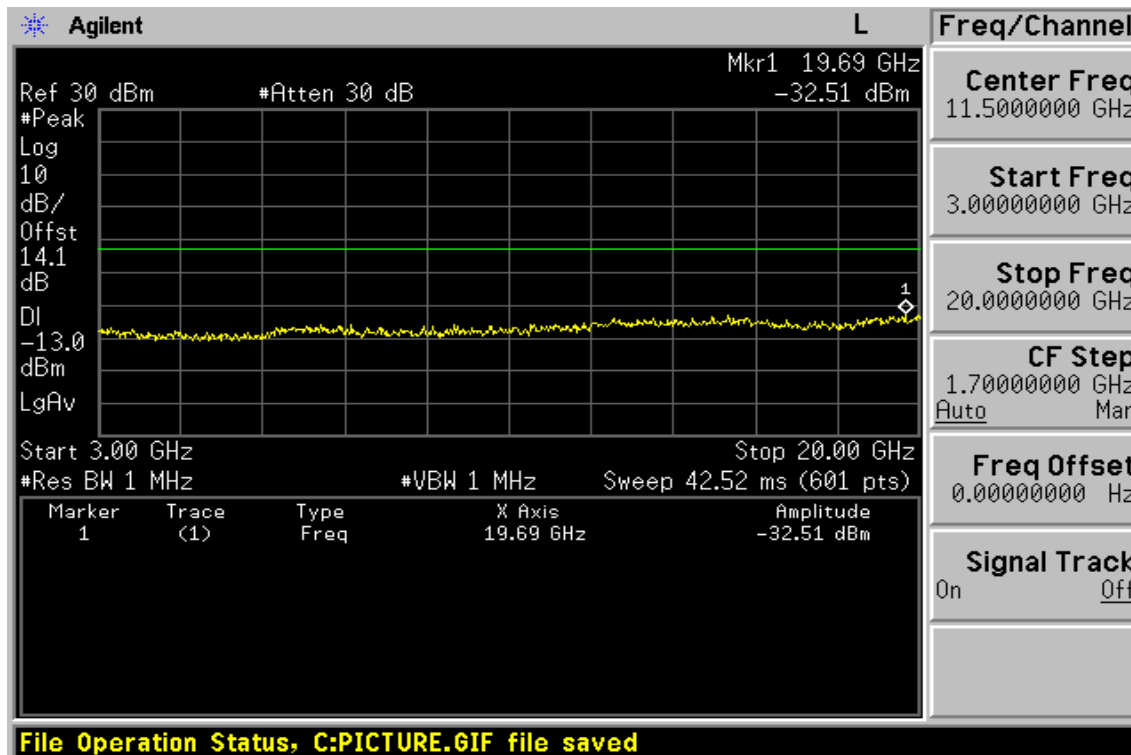
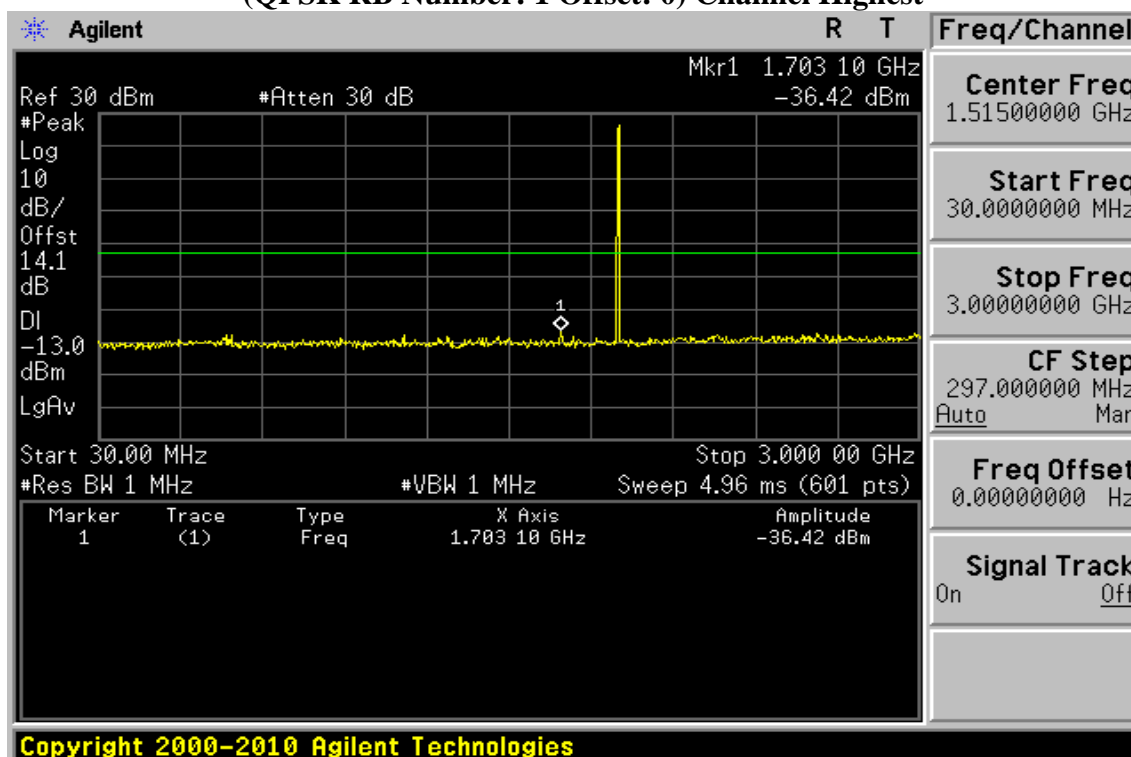
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**Figure 9-62: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 2****(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :1850.7 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3701.40        | H               | ---            | -13.00       | ---                  |
| 5552.10        | H               | ---            | -13.00       | ---                  |
| 7402.80        | H               | ---            | -13.00       | ---                  |
| 9253.50        | H               | ---            | -13.00       | ---                  |
| 11104.20       | H               | ---            | -13.00       | ---                  |
| 12954.90       | H               | ---            | -13.00       | ---                  |
| 14450.00       | S               | -32.82         | -13.00       | 19.82                |
| 14805.60       | H               | ---            | -13.00       | ---                  |
| 16656.30       | H               | ---            | -13.00       | ---                  |
| 18507.00       | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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f (886-2) 2298-0488

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Fundamental Frequency :1880.0 MHz Engineer :Nick  
Operation Mode :TX Mid

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3760.00        | H               | ---            | -13.00       | ---                  |
| 5640.00        | H               | ---            | -13.00       | ---                  |
| 7520.00        | H               | ---            | -13.00       | ---                  |
| 9400.00        | H               | ---            | -13.00       | ---                  |
| 11280.00       | H               | ---            | -13.00       | ---                  |
| 13160.00       | H               | ---            | -13.00       | ---                  |
| 15040.00       | H               | ---            | -13.00       | ---                  |
| 16920.00       | H               | ---            | -13.00       | ---                  |
| 18800.00       | H               | ---            | -13.00       | ---                  |
| 19380.00       | S               | -33.5          | -13.00       | 20.50                |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1909.3 MHz Engineer :Nick  
Operation Mode :TX High

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3818.60        | H               | ---            | -13.00       | ---                  |
| 5727.90        | H               | ---            | -13.00       | ---                  |
| 7637.20        | H               | ---            | -13.00       | ---                  |
| 9546.50        | H               | ---            | -13.00       | ---                  |
| 11455.80       | H               | ---            | -13.00       | ---                  |
| 13365.10       | H               | ---            | -13.00       | ---                  |
| 15274.40       | H               | ---            | -13.00       | ---                  |
| 17183.70       | H               | ---            | -13.00       | ---                  |
| 19093.00       | H               | ---            | -13.00       | ---                  |
| 19690.00       | S               | -32.51         | -13.00       | 19.51                |

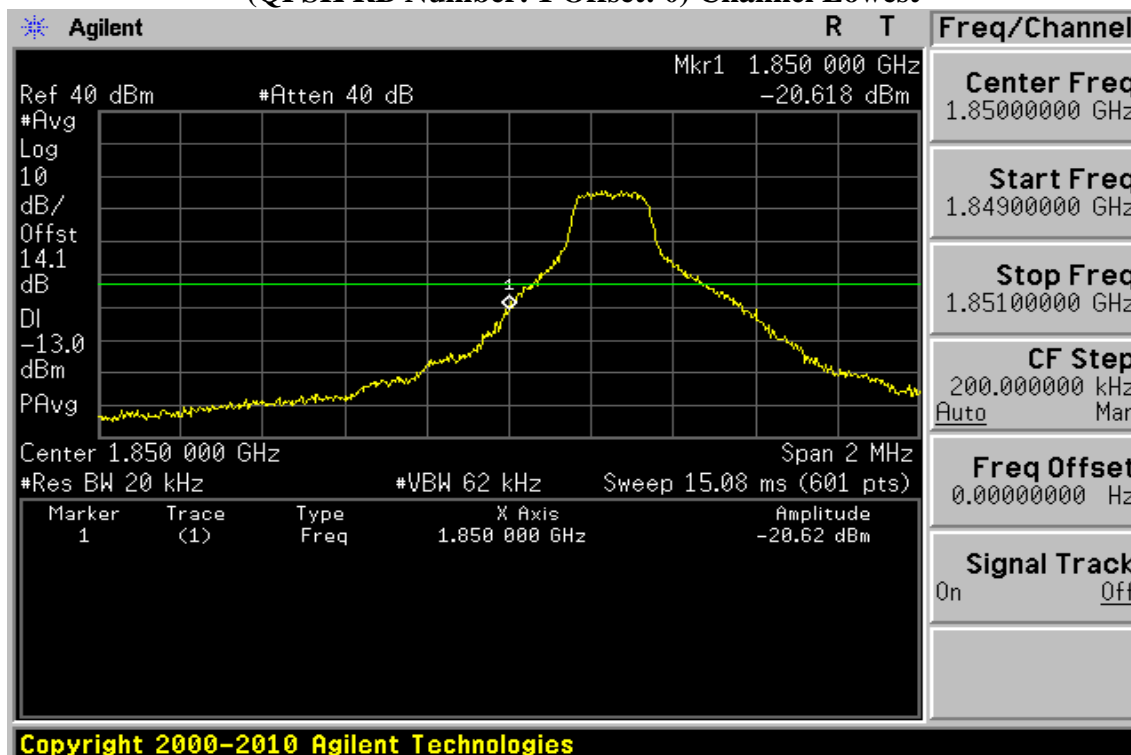
Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“” : denotes Spurious Freque

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

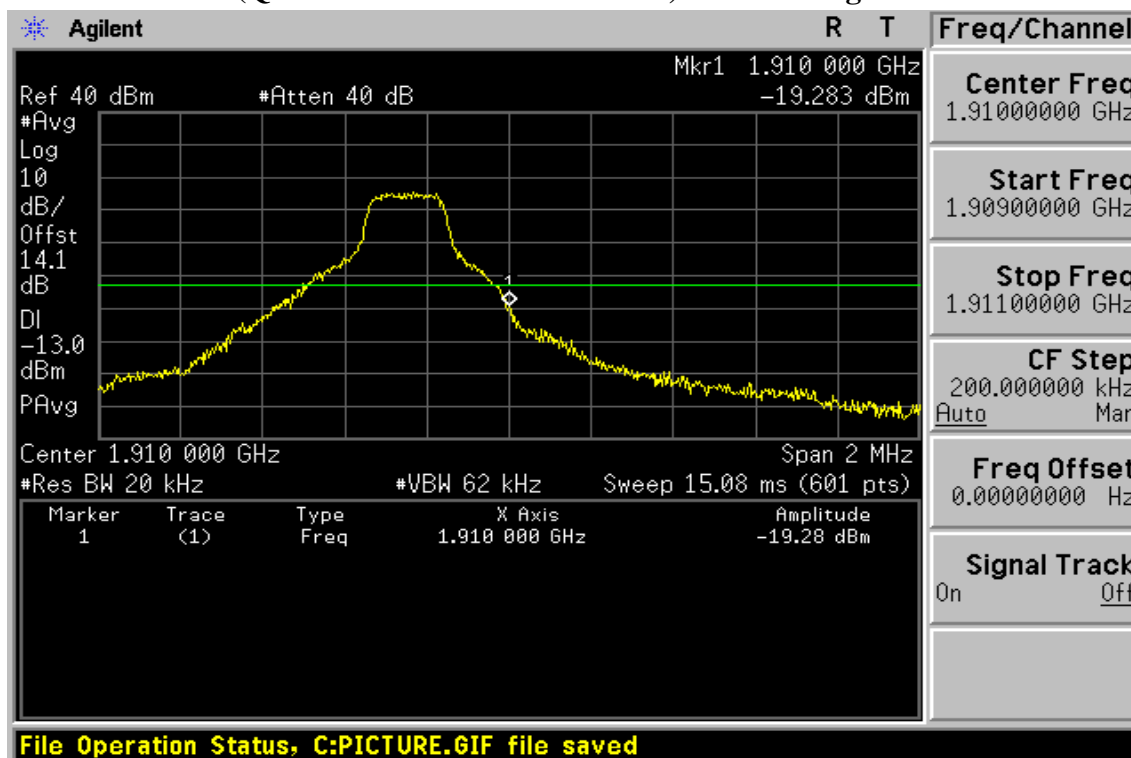
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**Figure 9-63: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-64: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 5) Channel Highest**



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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2****(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 5)**

Test Mode

1.4MHz BW LTE-Band 2 Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 1850.000     | -20.62         | -13.00       | 7.62                 |
| 1910.000     | -19.28         | -13.00       | 6.28                 |

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Figure 9-65: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2  
(QPSK RB Number: 6 Offset: 0) Channel Lowest

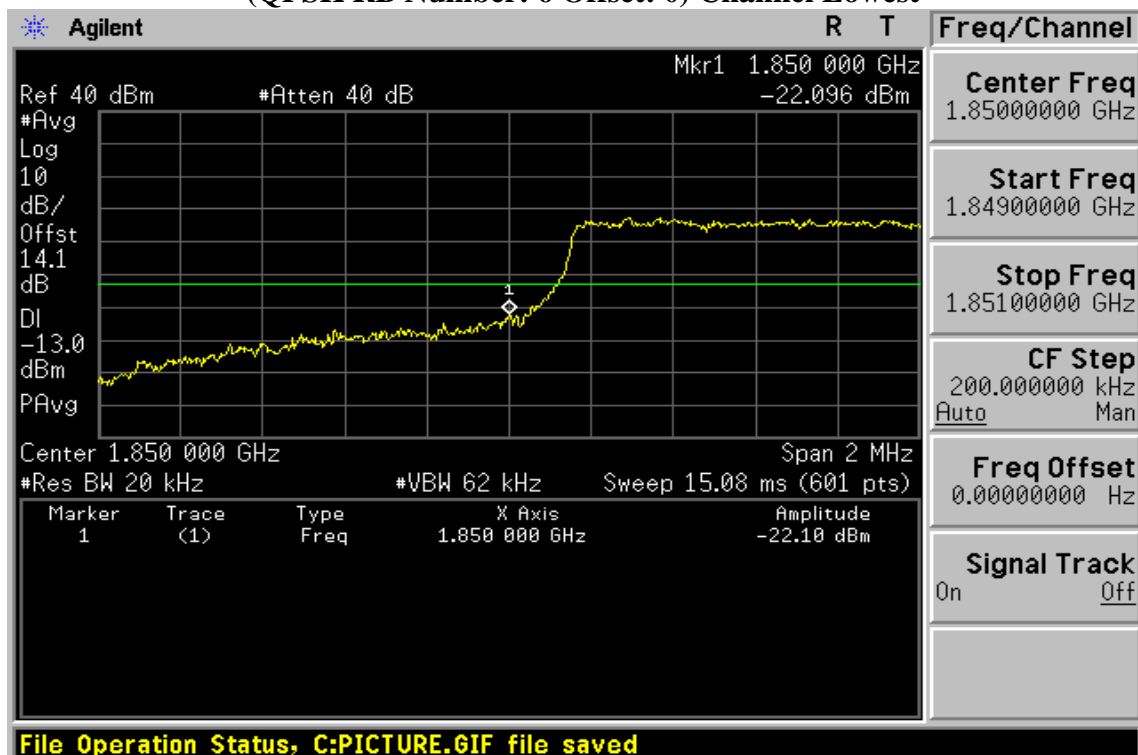
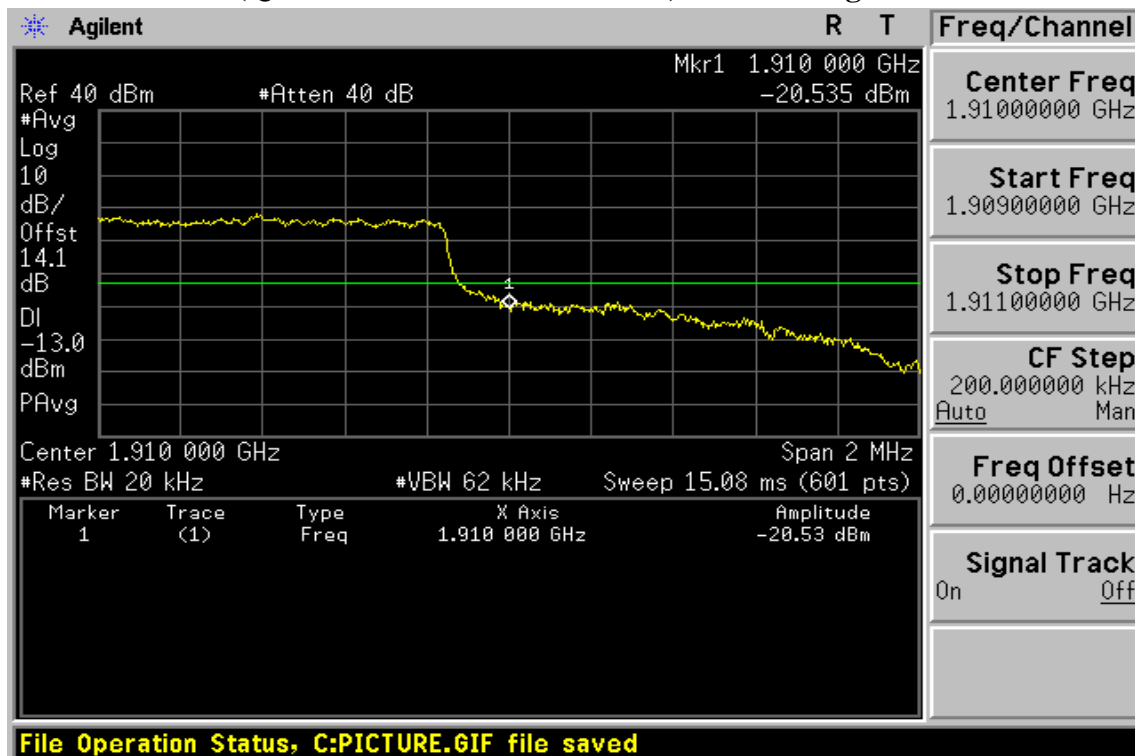


Figure 9-66: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2  
(QPSK RB Number: 6 Offset: 0) Channel Highest



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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2****(QPSK RB Number: 6 Offset: 0)**

Test Mode 1.4MHz BW LTE-Band 2 Engineer :Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 1850.000     | -22.1          | -13.00       | 9.10                 |
| 1910.000     | -20.53         | -13.00       | 7.53                 |

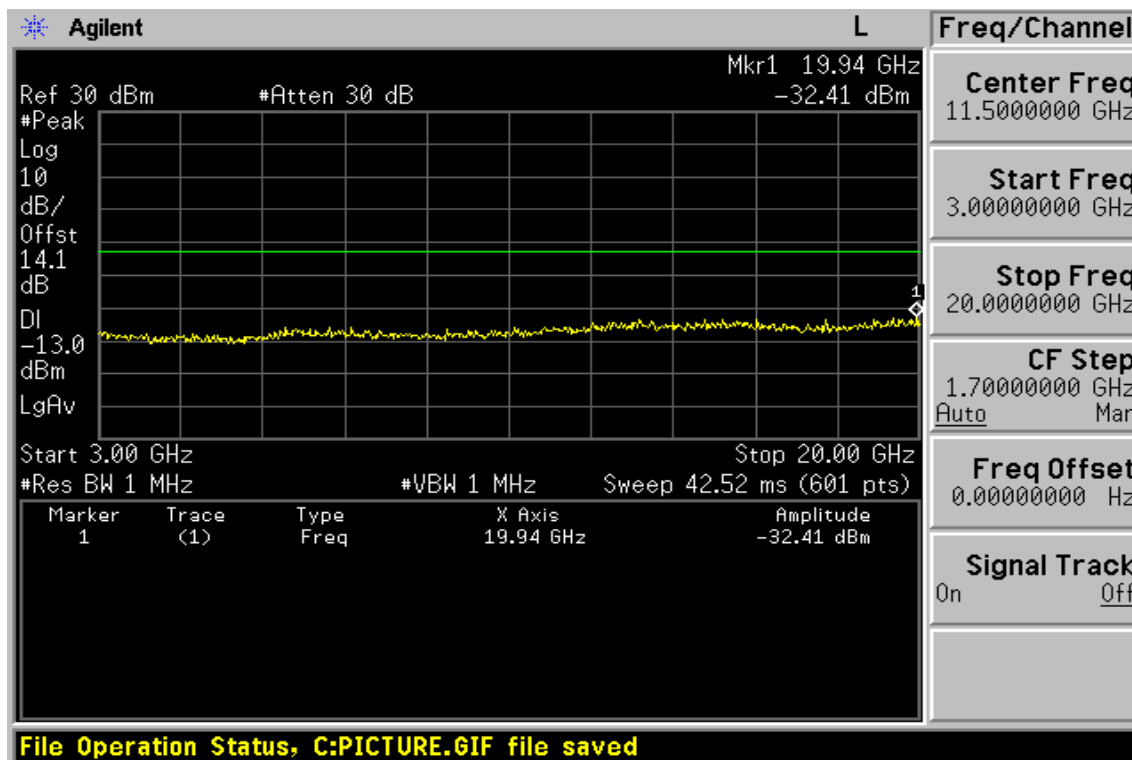
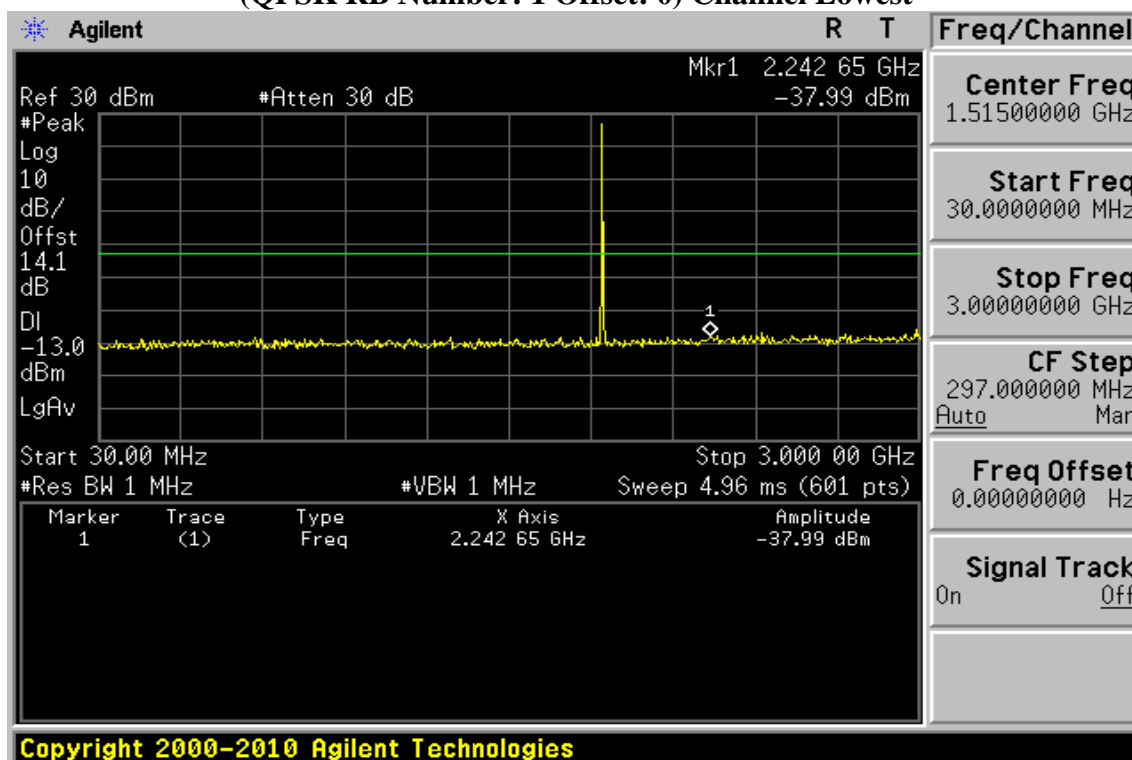
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**Figure 9-67: Out of Band emission at antenna terminals–3MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

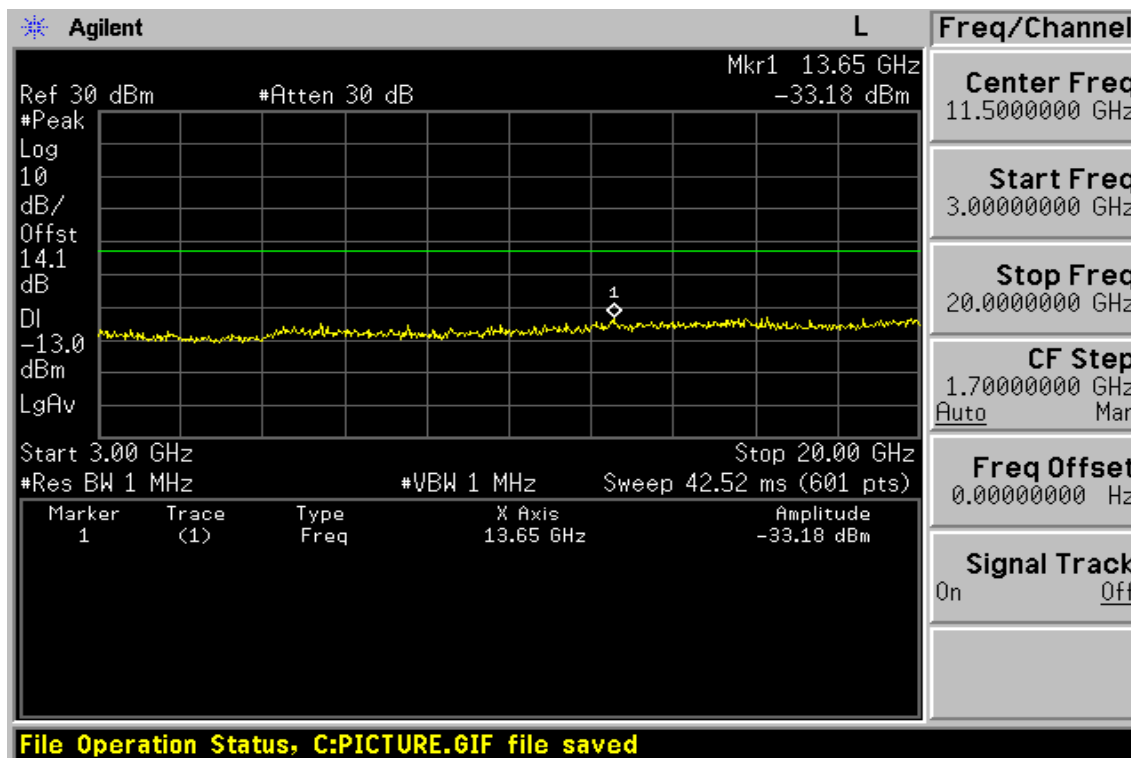
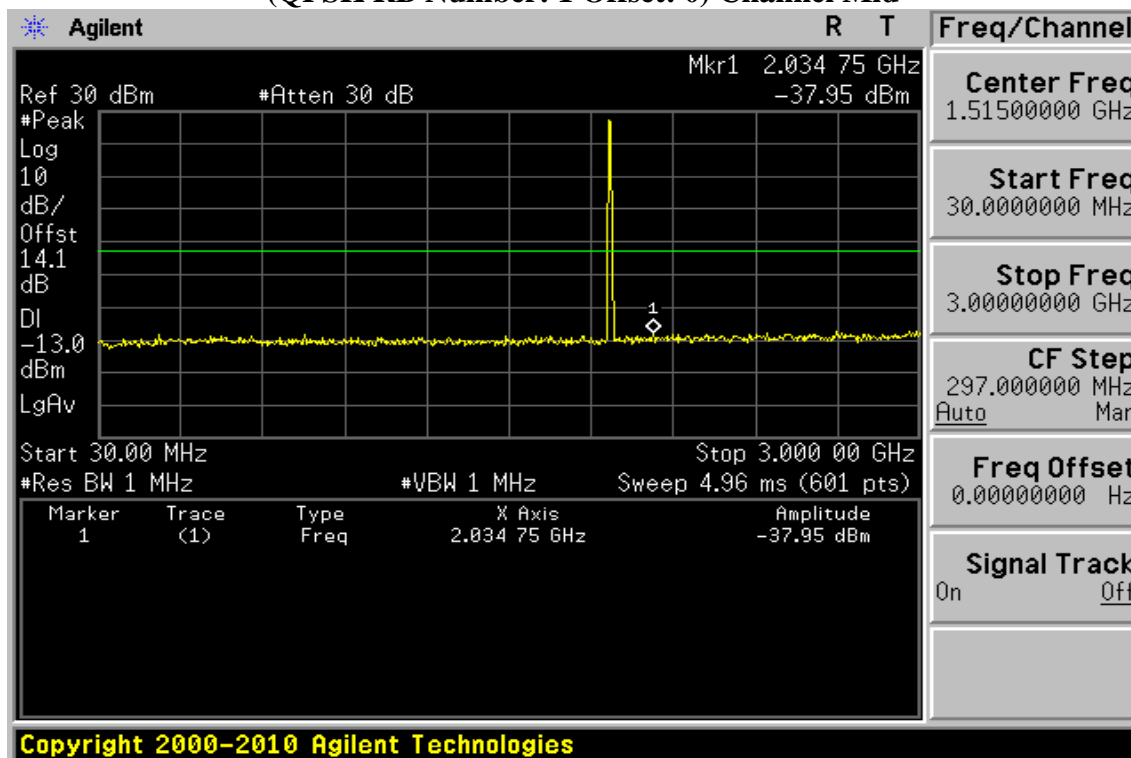


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**Figure 9-68: Out of Band emission at antenna terminals –3MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Mid**

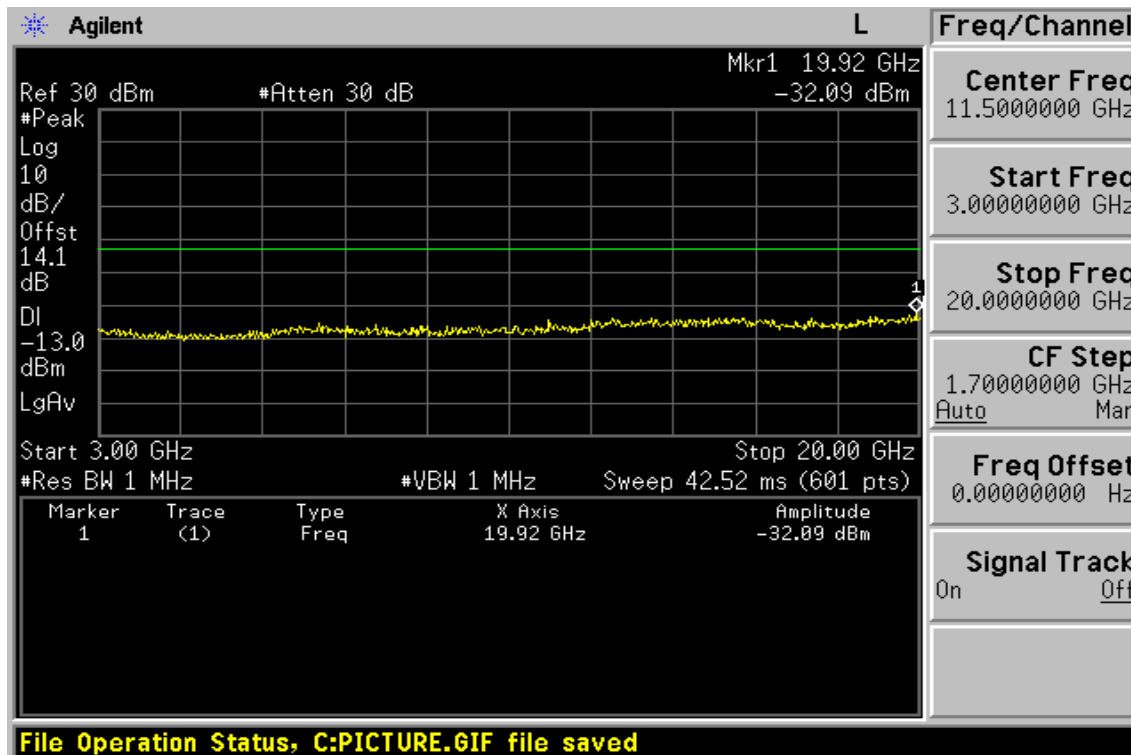
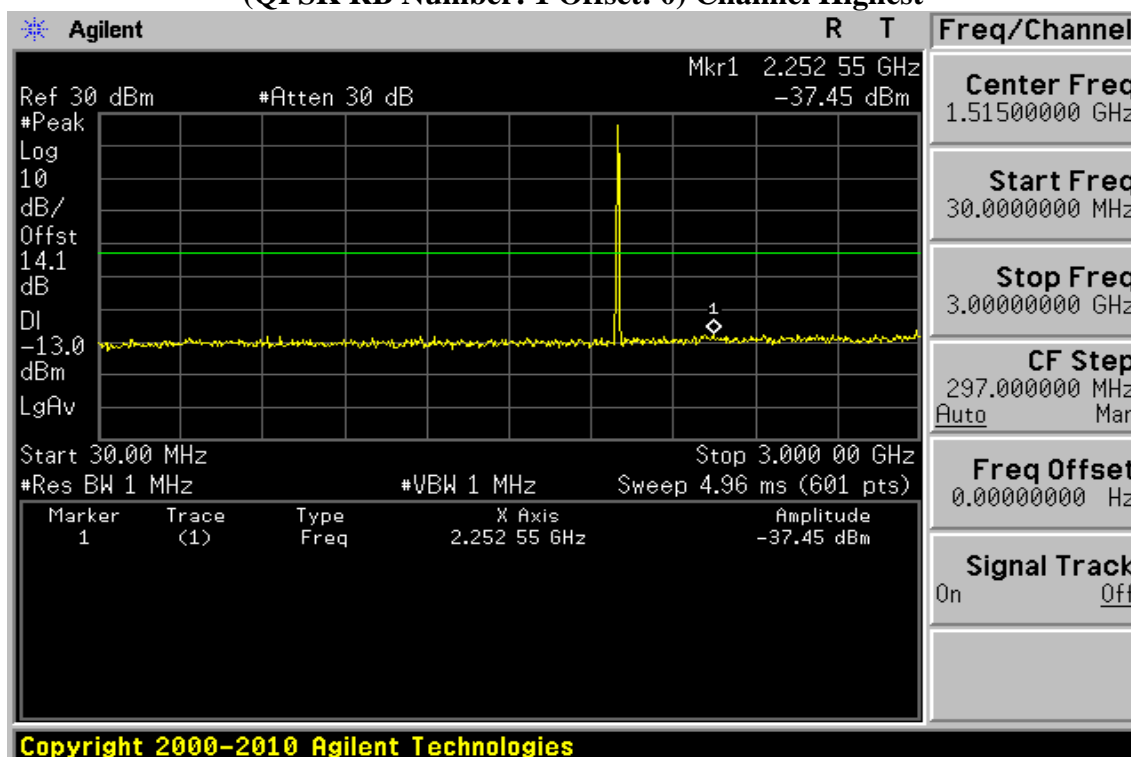


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**Figure 9-69: Out of Band emission at antenna terminals–3MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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## Out of Band emission at antenna terminals –3MHz BW LTE-Band 2

(QPSK RB Number: 1 Offset: 0)

Fundamental Frequency :1851.5 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3703.00        | H               | ---            | -13.00       | ---                  |
| 5554.50        | H               | ---            | -13.00       | ---                  |
| 7406.00        | H               | ---            | -13.00       | ---                  |
| 9257.50        | H               | ---            | -13.00       | ---                  |
| 11109.00       | H               | ---            | -13.00       | ---                  |
| 12960.50       | H               | ---            | -13.00       | ---                  |
| 14812.00       | H               | ---            | -13.00       | ---                  |
| 16663.50       | H               | ---            | -13.00       | ---                  |
| 18515.00       | H               | ---            | -13.00       | ---                  |
| 19940.00       | S               | -32.41         | -13.00       | 19.41                |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Fundamental Frequency :1880.0 MHz Engineer :Nick  
Operation Mode :TX Mid

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3760.00        | H               | ---            | -13.00       | ---                  |
| 5640.00        | H               | ---            | -13.00       | ---                  |
| 7520.00        | H               | ---            | -13.00       | ---                  |
| 9400.00        | H               | ---            | -13.00       | ---                  |
| 11280.00       | H               | ---            | -13.00       | ---                  |
| 13160.00       | H               | ---            | -13.00       | ---                  |
| 13650.00       | S               | -33.18         | -13.00       | 20.18                |
| 15040.00       | H               | ---            | -13.00       | ---                  |
| 16920.00       | H               | ---            | -13.00       | ---                  |
| 18800.00       | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1908.5 MHz  
Operation Mode :TX High

Engineer :Nick

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3817.00        | H               | ---            | -13.00       | ---                  |
| 5725.50        | H               | ---            | -13.00       | ---                  |
| 7634.00        | H               | ---            | -13.00       | ---                  |
| 9542.50        | H               | ---            | -13.00       | ---                  |
| 11451.00       | H               | ---            | -13.00       | ---                  |
| 13359.50       | H               | ---            | -13.00       | ---                  |
| 15268.00       | H               | ---            | -13.00       | ---                  |
| 17176.50       | H               | ---            | -13.00       | ---                  |
| 19085.00       | H               | ---            | -13.00       | ---                  |
| 19920.00       | S               | -32.09         | -13.00       | 19.09                |

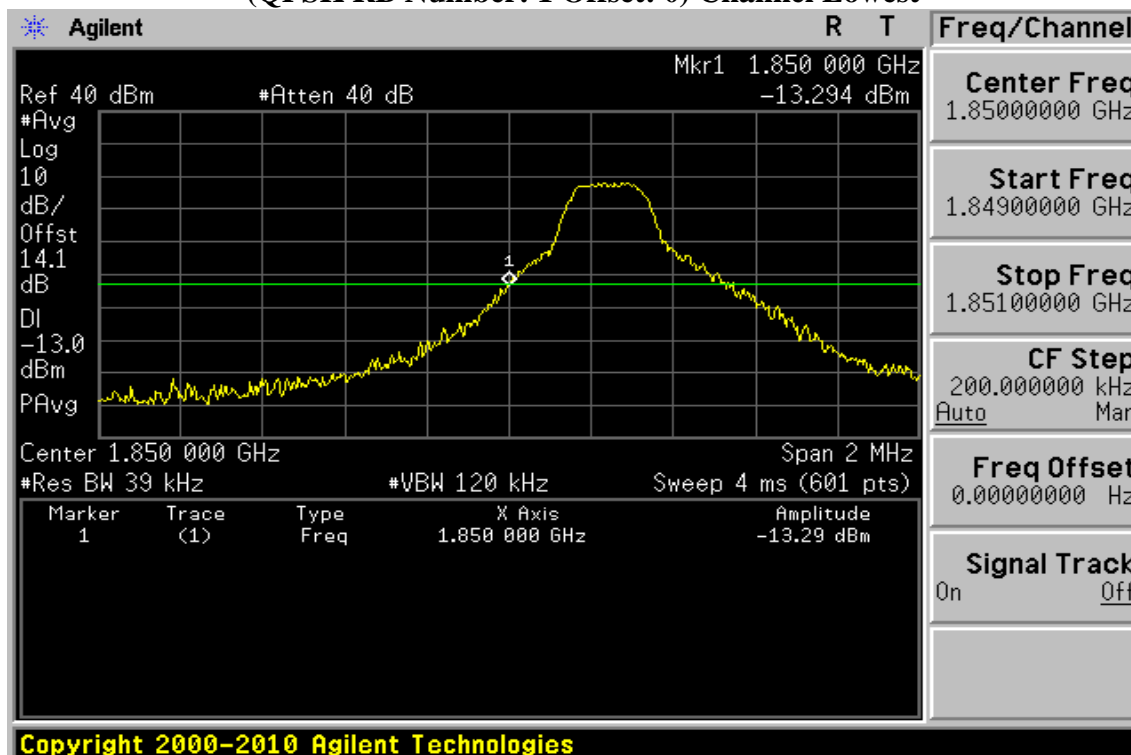
Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“” : denotes Spurious Freque

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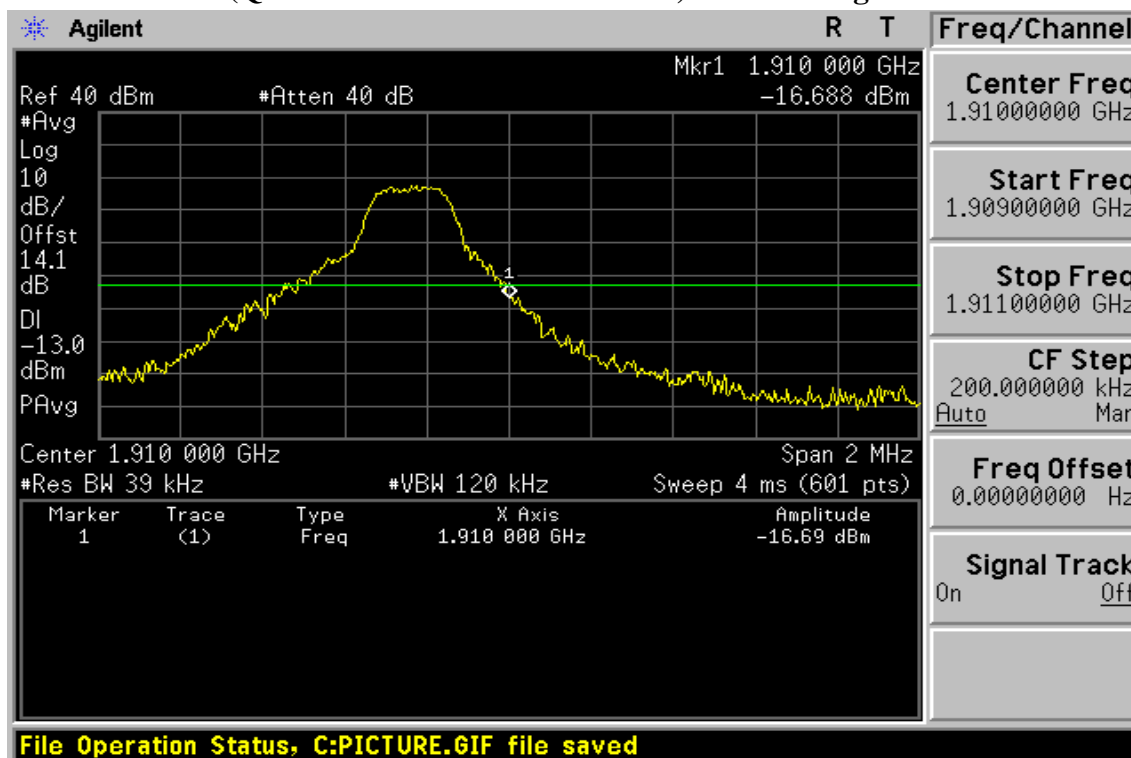
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**Figure 9-70: Band edge emission at antenna terminals –3MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-71: Band edge emission at antenna terminals –3MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 14) Channel Highest**



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**Band edge emission at antenna terminals –3MHz BW LTE-Band 2****(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 14)**

Test Mode

3MHz BW LTE-Band 2

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 1850.000     | -13.29         | -13.00       | 0.29                 |
| 1910.000     | -16.69         | -13.00       | 3.69                 |

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Figure 9-72: Band edge emission at antenna terminals –3MHz BW LTE-Band 2  
(QPSK RB Number: 15 Offset: 0) Channel Lowest

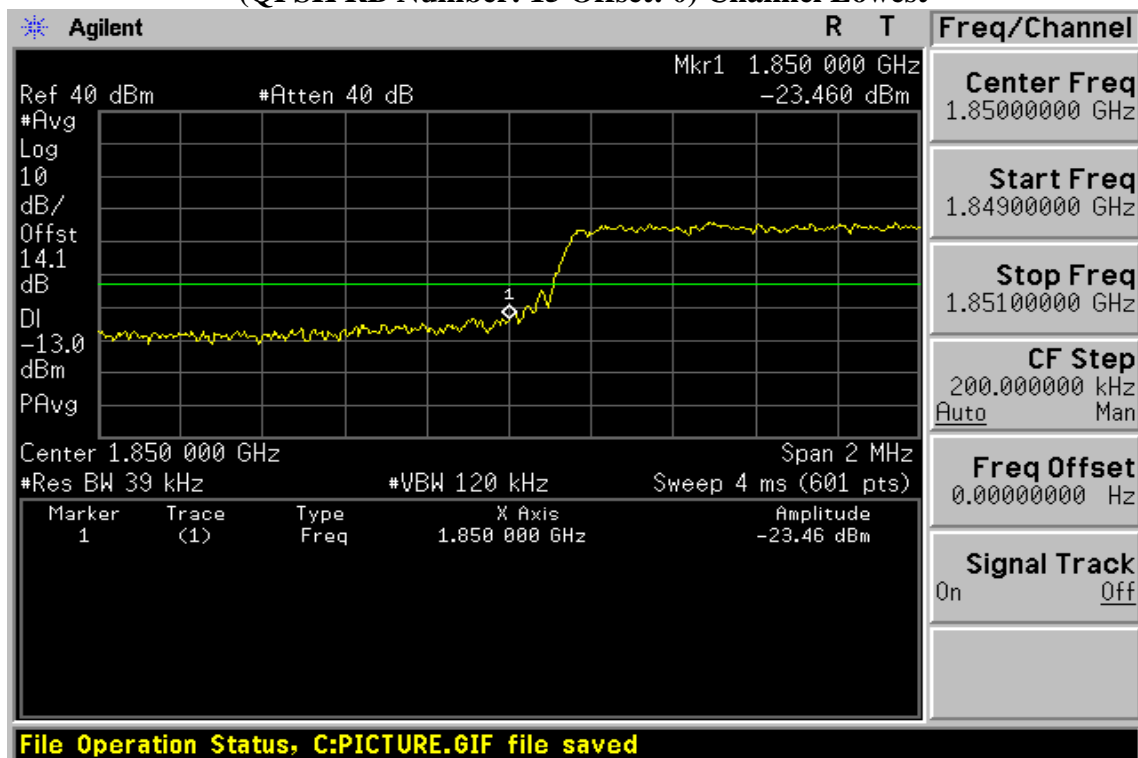
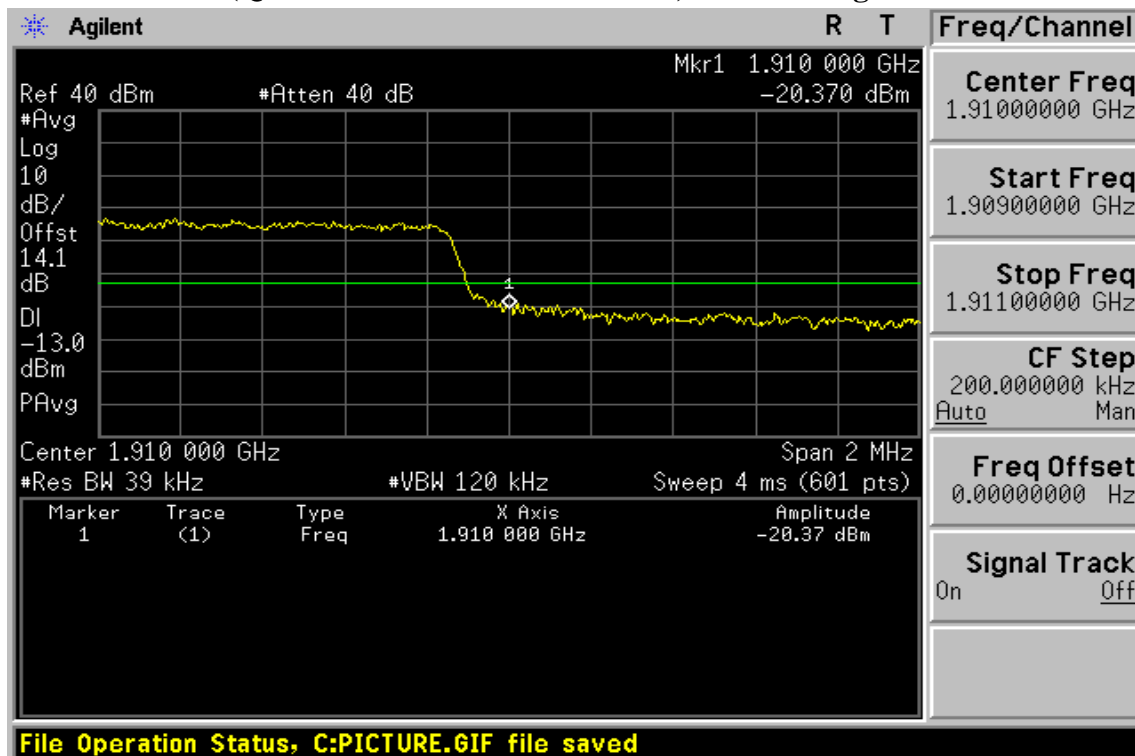


Figure 9-73: Band edge emission at antenna terminals –3MHz BW LTE-Band 2  
(QPSK RB Number: 15 Offset: 0) Channel Highest



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**Band edge emission at antenna terminals –3MHz BW LTE-Band 2****(QPSK RB Number: 15 Offset: 0)**

Test Mode 3MHz BW LTE-Band 2 Engineer :Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 1850.000     | -23.46         | -13.00       | 10.46                |
| 1910.000     | -20.37         | -13.00       | 7.37                 |

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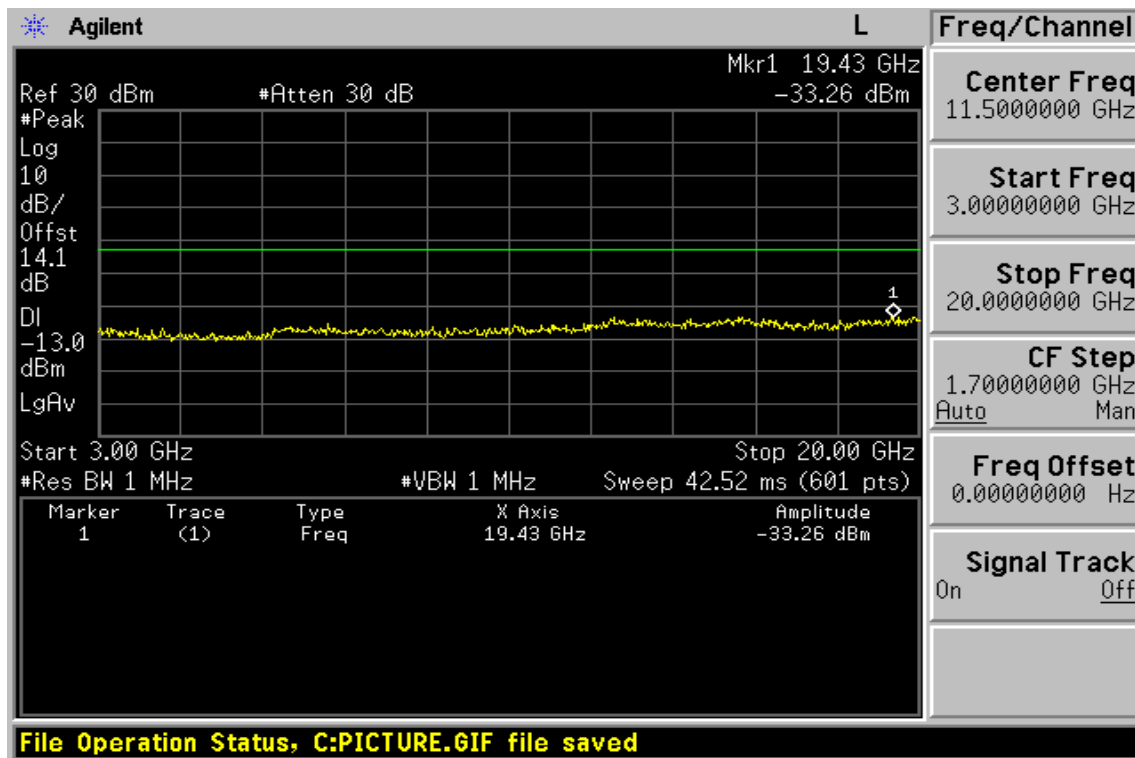
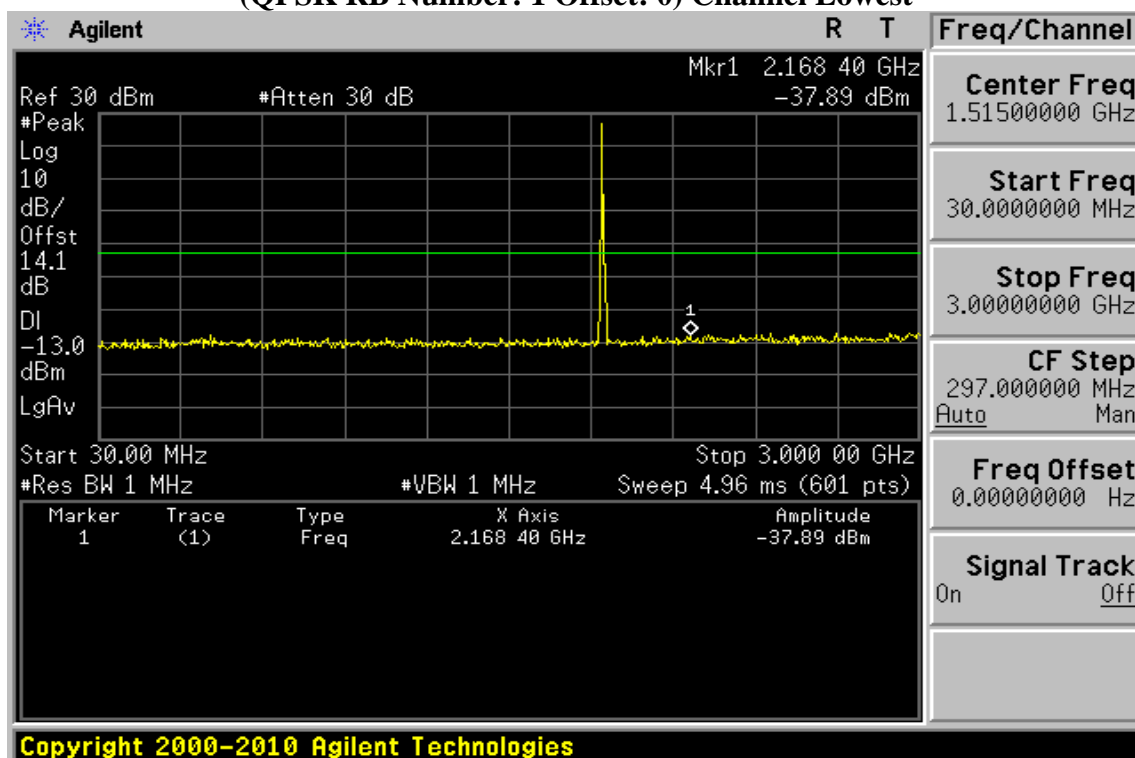
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**Figure 9-74: Out of Band emission at antenna terminals–5MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

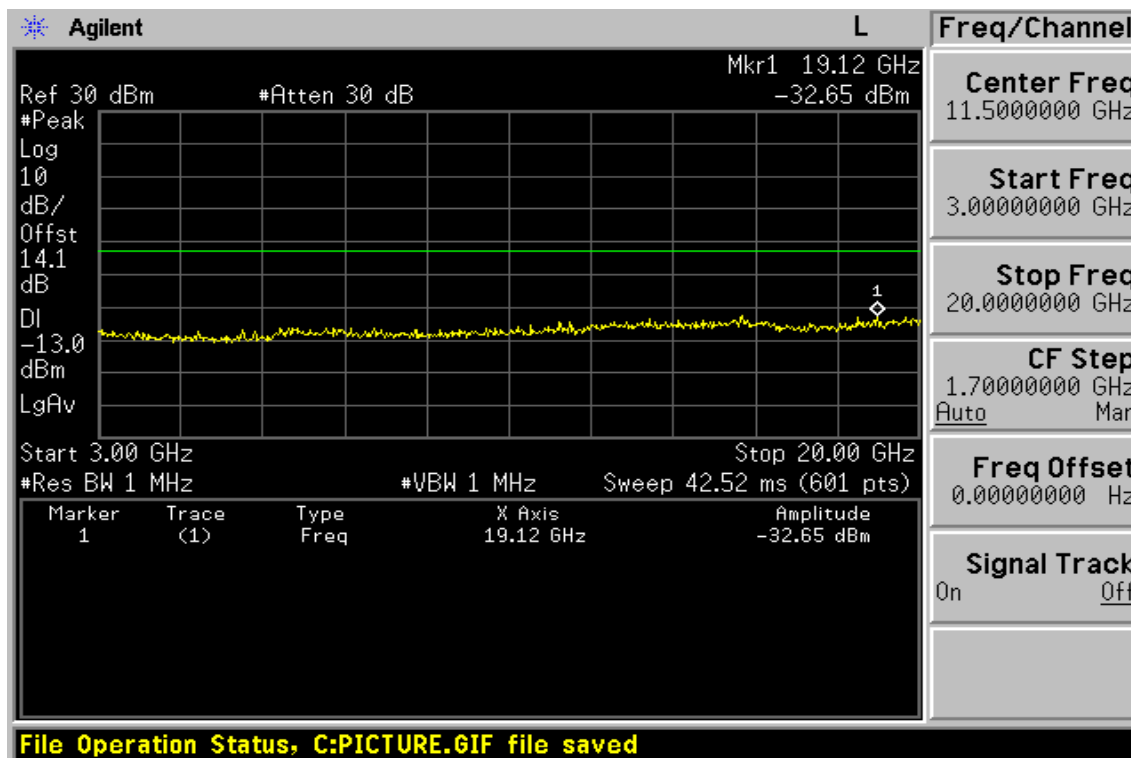
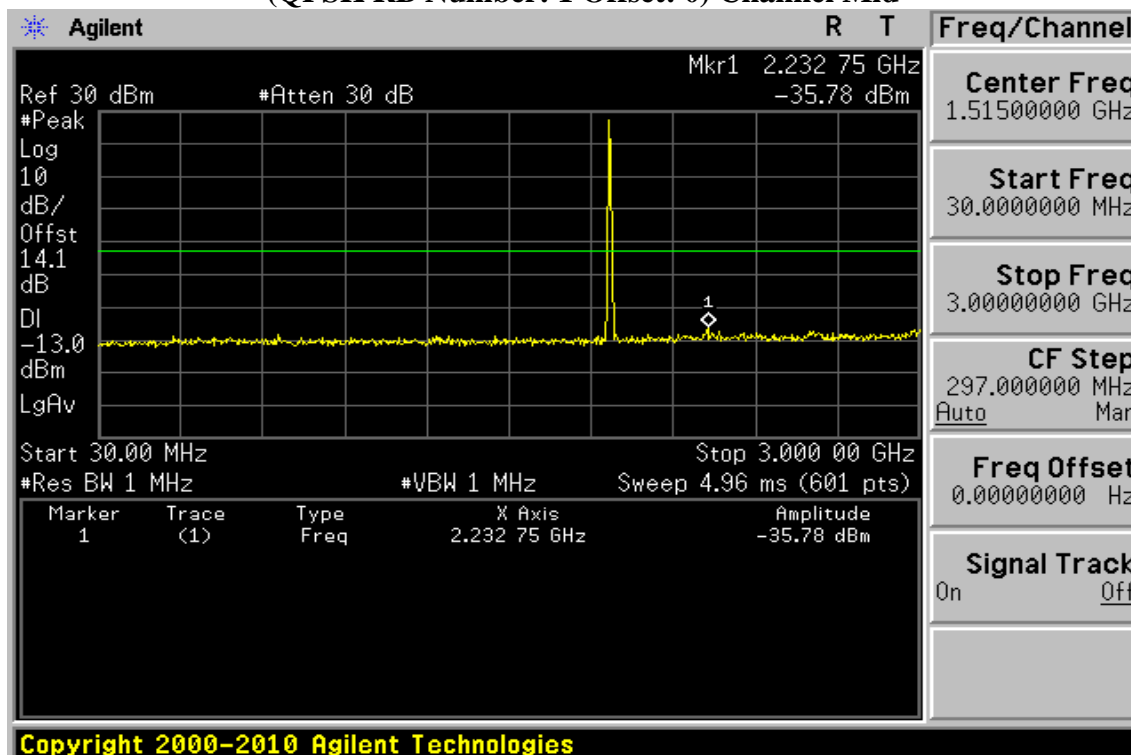


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**Figure 9-75: Out of Band emission at antenna terminals –5MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Mid**

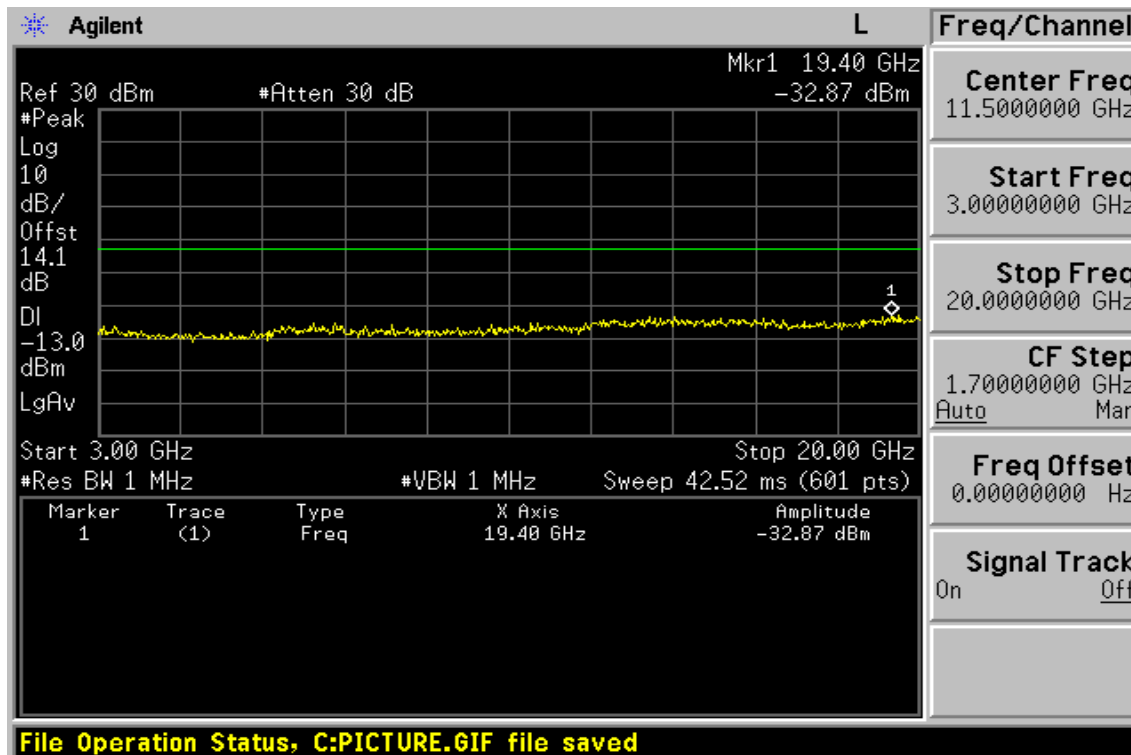
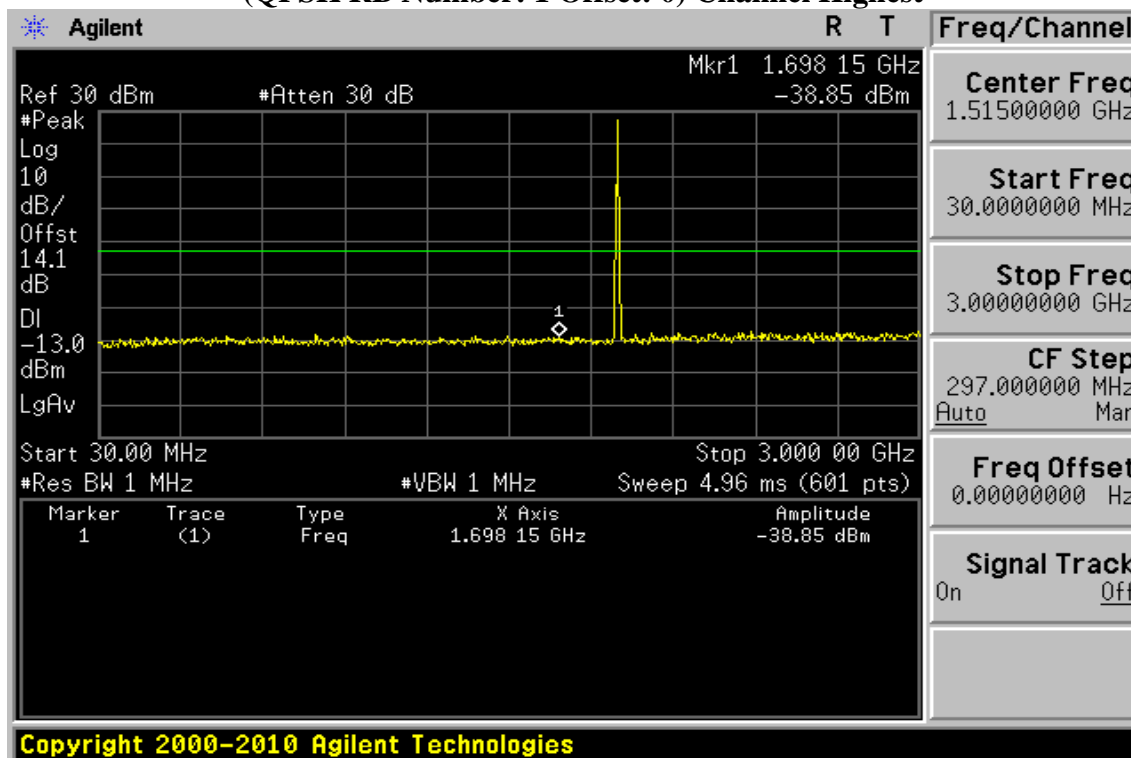


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**Figure 9-76: Out of Band emission at antenna terminals–5MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 2****(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :1852.5 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3705.00        | H               | ---            | -13.00       | ---                  |
| 5557.50        | H               | ---            | -13.00       | ---                  |
| 7410.00        | H               | ---            | -13.00       | ---                  |
| 9262.50        | H               | ---            | -13.00       | ---                  |
| 11115.00       | H               | ---            | -13.00       | ---                  |
| 12967.50       | H               | ---            | -13.00       | ---                  |
| 14820.00       | H               | ---            | -13.00       | ---                  |
| 16672.50       | H               | ---            | -13.00       | ---                  |
| 18525.00       | H               | ---            | -13.00       | ---                  |
| 19430.00       | S               | -33.26         | -13.00       | 20.26                |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick  
Operation Mode :TX Mid

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3760.00        | H               | ---            | -13.00       | ---                  |
| 5640.00        | H               | ---            | -13.00       | ---                  |
| 7520.00        | H               | ---            | -13.00       | ---                  |
| 9400.00        | H               | ---            | -13.00       | ---                  |
| 11280.00       | H               | ---            | -13.00       | ---                  |
| 13160.00       | H               | ---            | -13.00       | ---                  |
| 15040.00       | H               | ---            | -13.00       | ---                  |
| 16920.00       | H               | ---            | -13.00       | ---                  |
| 18800.00       | H               | ---            | -13.00       | ---                  |
| 19120.00       | S               | -32.65         | -13.00       | 19.65                |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1907.5 MHz Engineer :Nick  
Operation Mode :TX High

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3815.00        | H               | ---            | -13.00       | ---                  |
| 5722.50        | H               | ---            | -13.00       | ---                  |
| 7630.00        | H               | ---            | -13.00       | ---                  |
| 9537.50        | H               | ---            | -13.00       | ---                  |
| 11445.00       | H               | ---            | -13.00       | ---                  |
| 13352.50       | H               | ---            | -13.00       | ---                  |
| 15260.00       | H               | ---            | -13.00       | ---                  |
| 17167.50       | H               | ---            | -13.00       | ---                  |
| 19075.00       | H               | ---            | -13.00       | ---                  |
| 19400.00       | S               | -32.87         | -13.00       | 19.87                |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“ ” : denotes Spurious Frequency

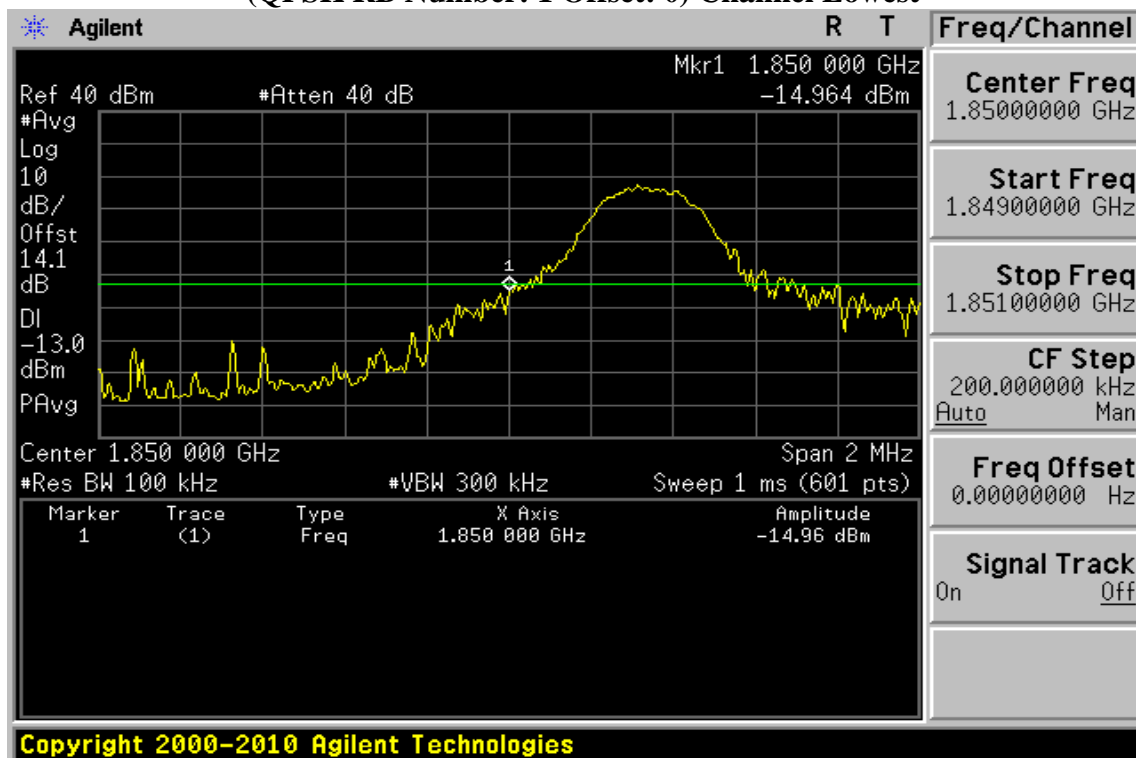
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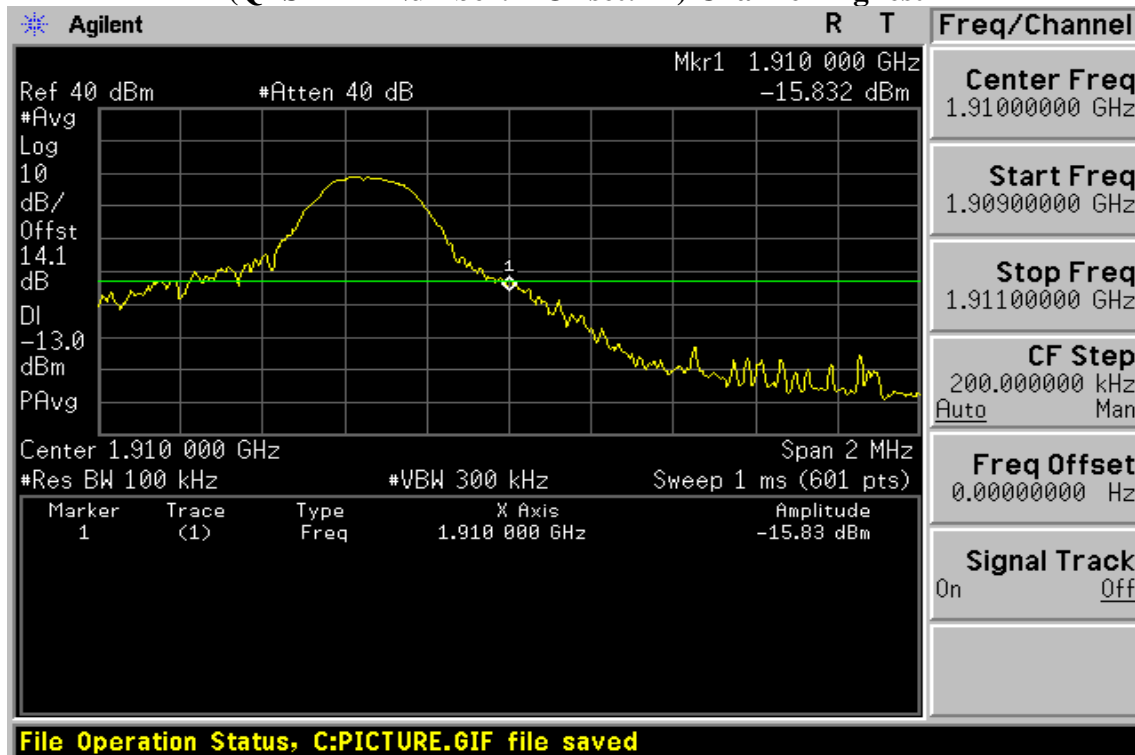
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**Figure 9-77: Band edge emission at antenna terminals –5MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-78: Band edge emission at antenna terminals –5MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 24) Channel Highest**



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**Band edge emission at antenna terminals –5MHz BW LTE-Band 2****(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 24)**

Test Mode

5MHz BW LTE-Band 2

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 1850.000     | -14.96         | -13.00       | 1.96                 |
| 1910.000     | -15.83         | -13.00       | 2.83                 |

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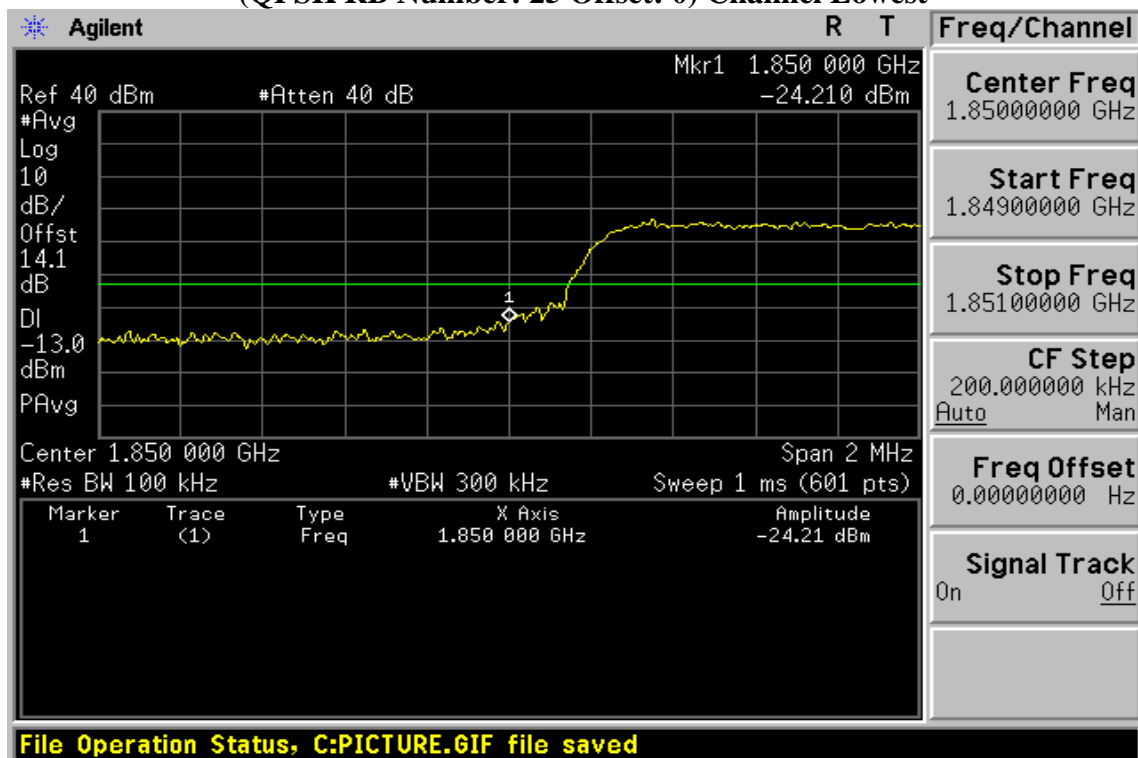
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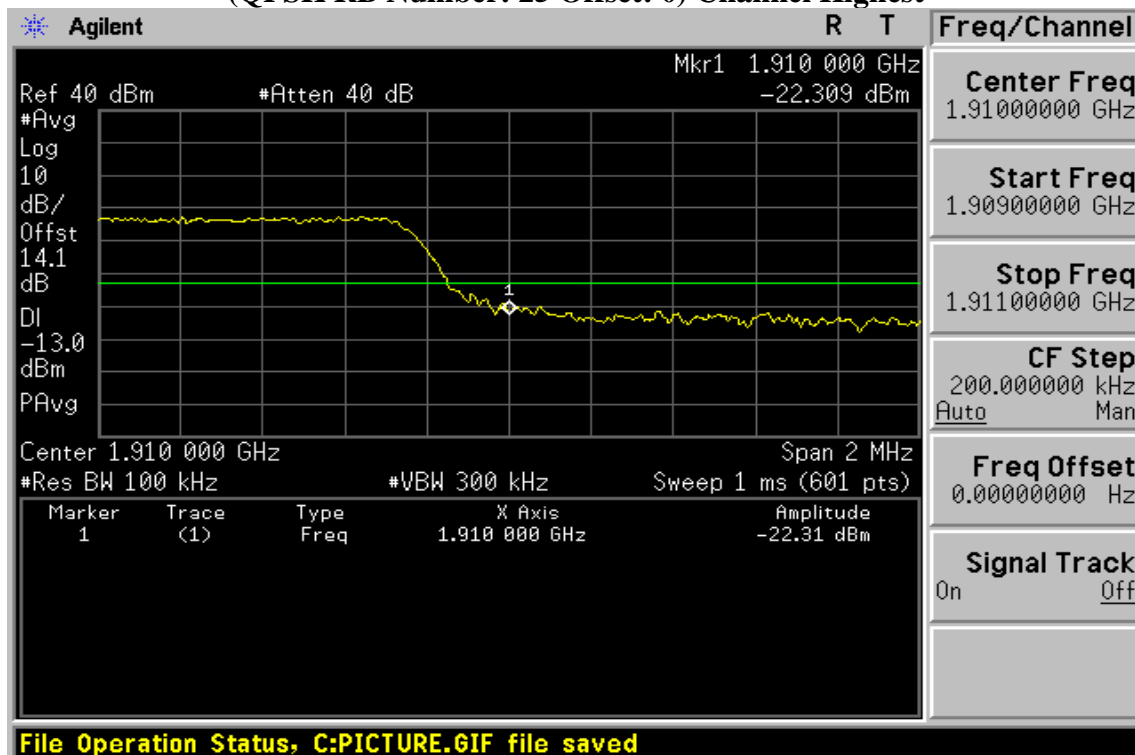
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**Figure 9-79: Band edge emission at antenna terminals –5MHz BW LTE-Band 2  
(QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Figure 9-80: Band edge emission at antenna terminals –5MHz BW LTE-Band 2  
(QPSK RB Number: 25 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –5MHz BW LTE-Band 2****(QPSK RB Number: 25 Offset: 0)**

Test Mode 5MHz BW LTE-Band 2 Engineer :Nick

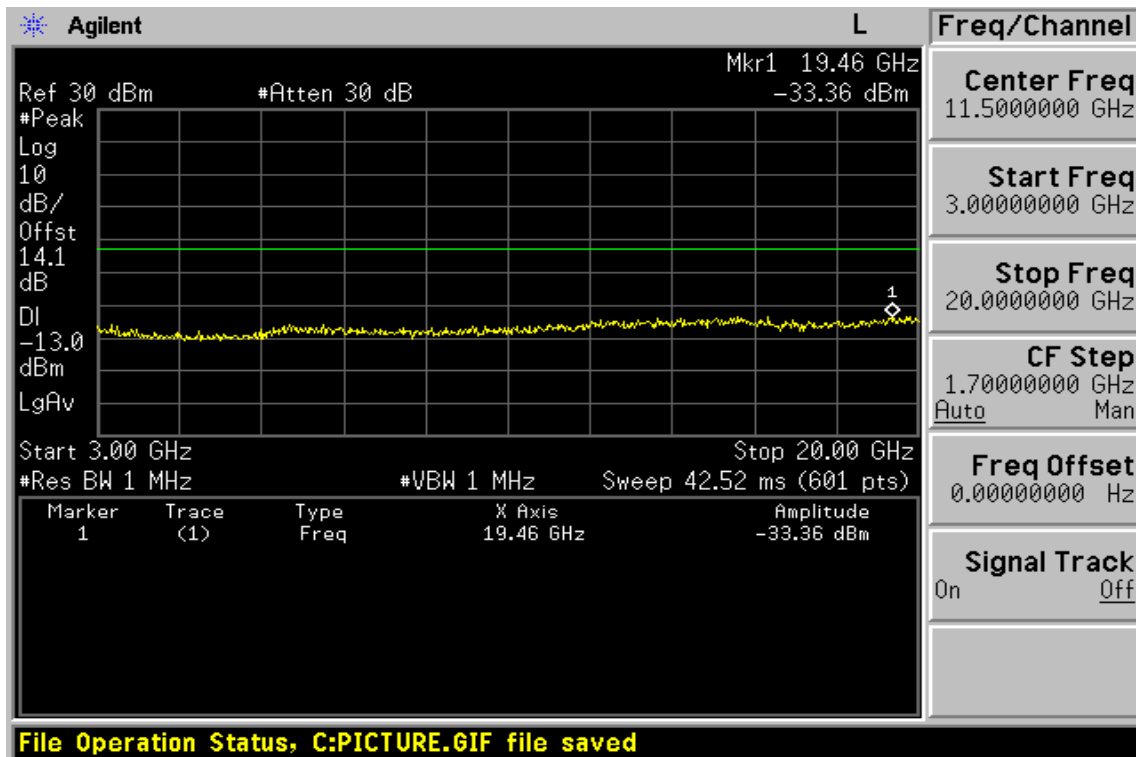
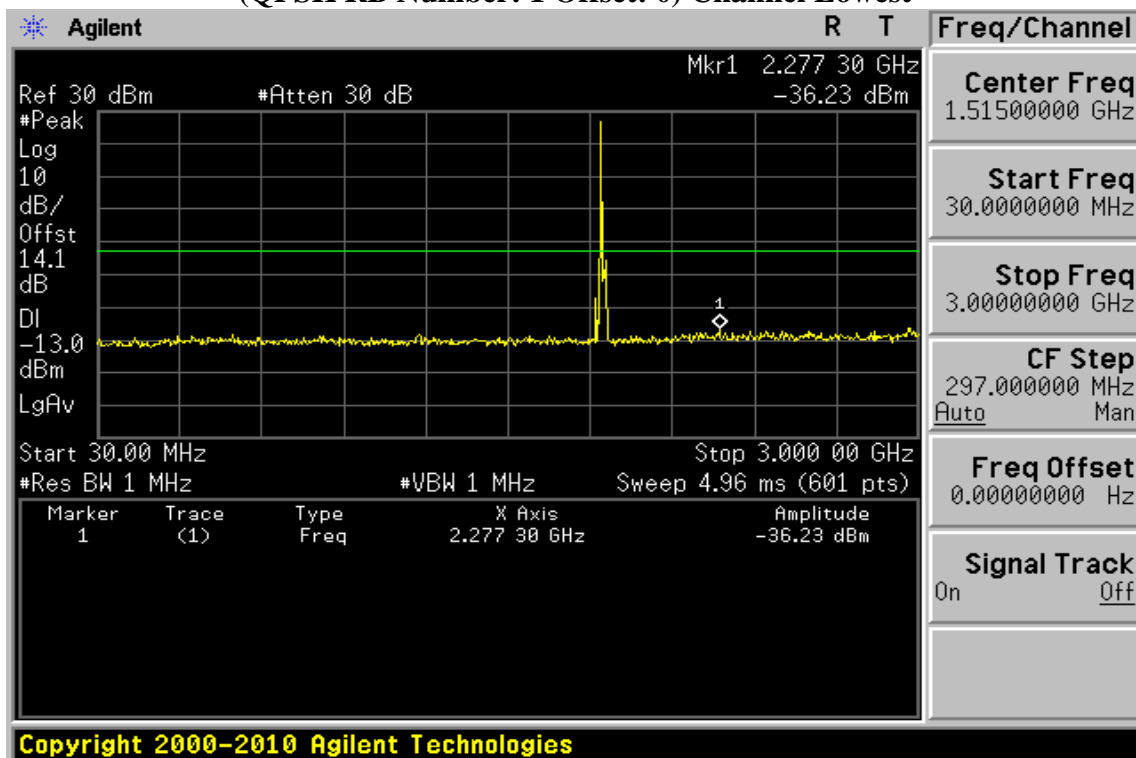
| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 1850.000     | -24.21         | -13.00       | 11.21                |
| 1910.000     | -22.31         | -13.00       | 9.31                 |

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**Figure 9-81: Out of Band emission at antenna terminals–10MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

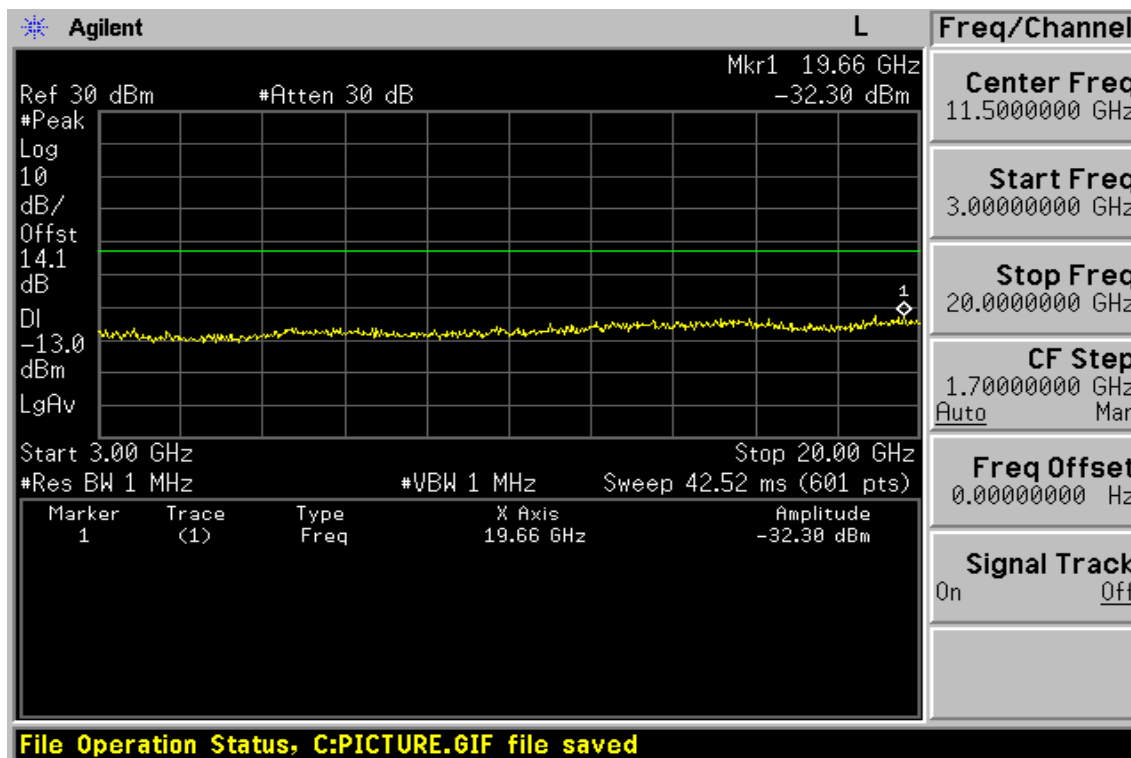
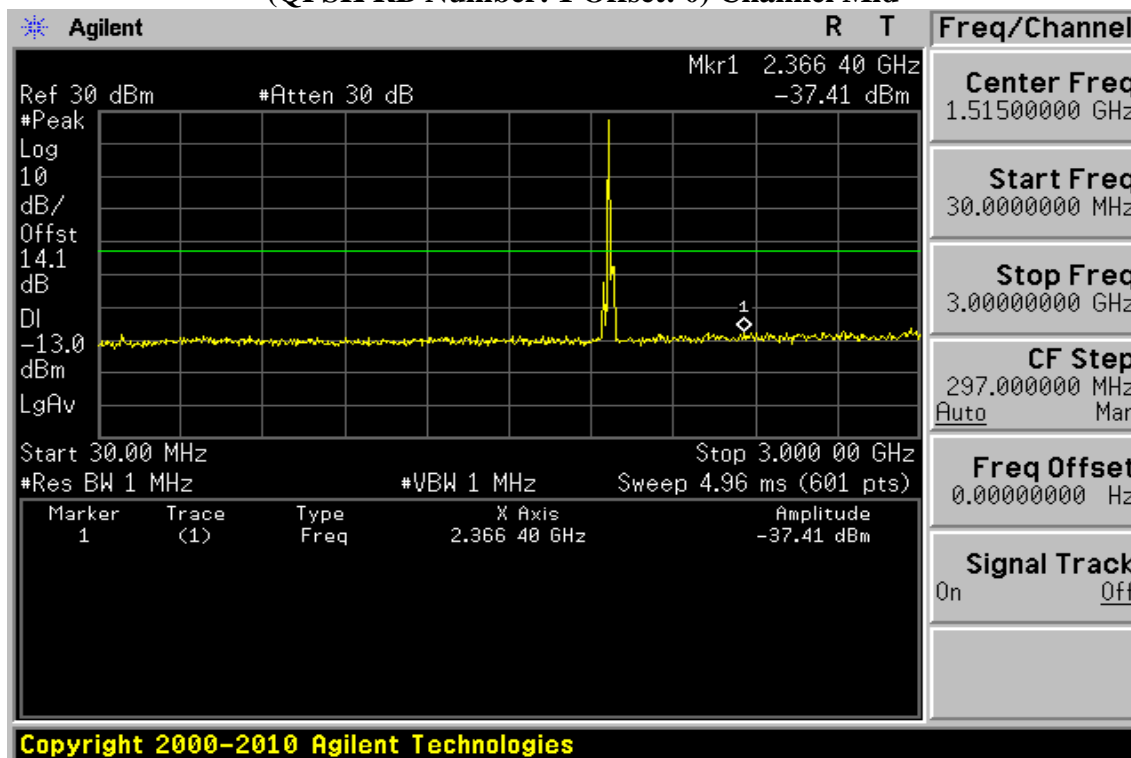


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**Figure 9-82: Out of Band emission at antenna terminals –10MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Mid**

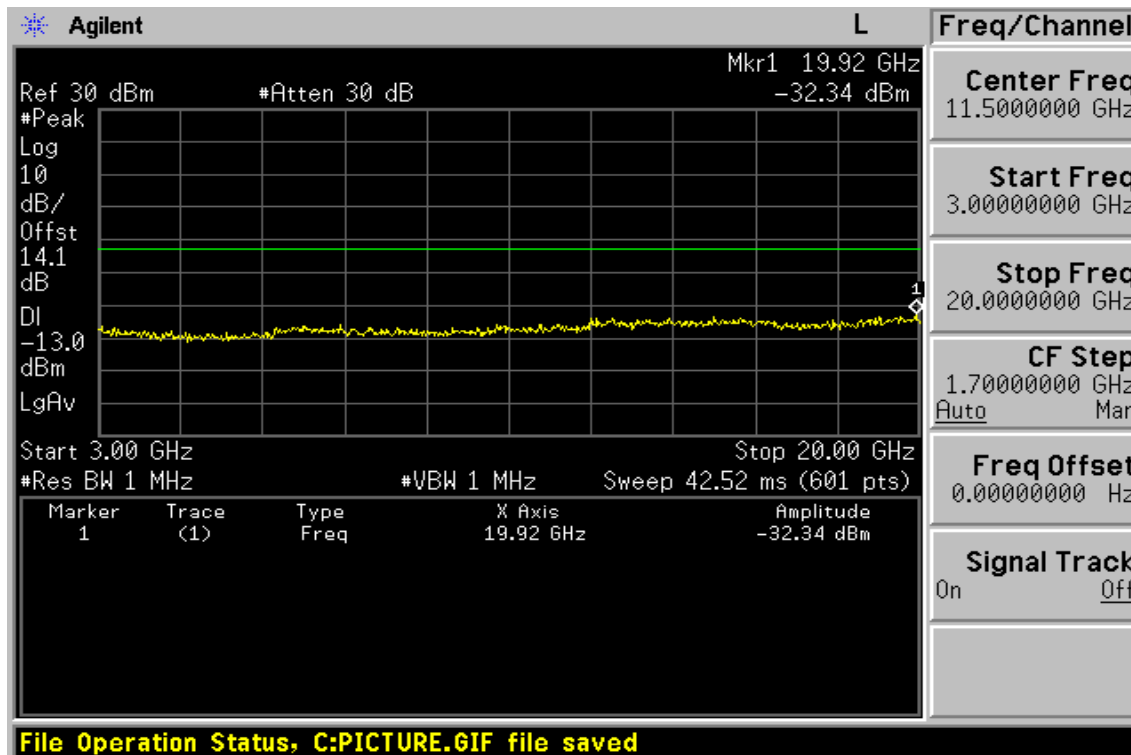
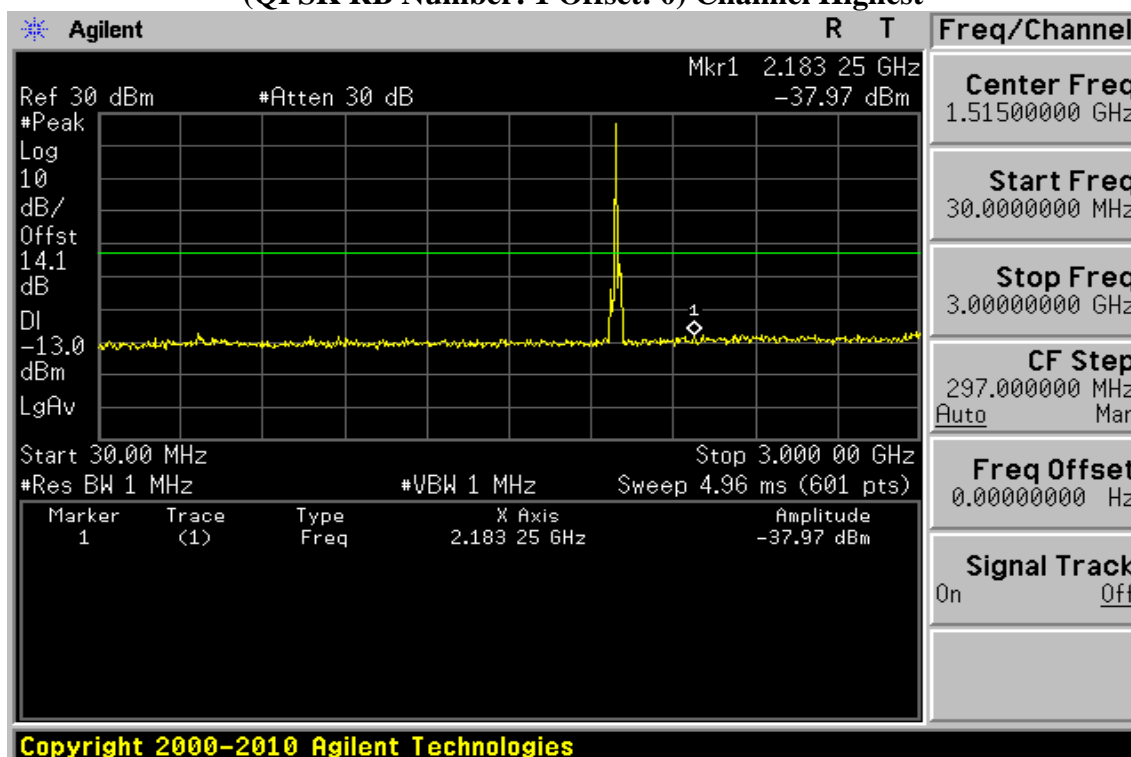


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**Figure 9-83: Out of Band emission at antenna terminals–10MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –10MHz BW LTE-Band 2****(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :1855.0 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3710.00        | H               | ---            | -13.00       | ---                  |
| 5565.00        | H               | ---            | -13.00       | ---                  |
| 7420.00        | H               | ---            | -13.00       | ---                  |
| 9275.00        | H               | ---            | -13.00       | ---                  |
| 11130.00       | H               | ---            | -13.00       | ---                  |
| 12985.00       | H               | ---            | -13.00       | ---                  |
| 14840.00       | H               | ---            | -13.00       | ---                  |
| 16695.00       | H               | ---            | -13.00       | ---                  |
| 18550.00       | H               | ---            | -13.00       | ---                  |
| 19460.00       | S               | -33.36         | -13.00       | 20.36                |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick  
Operation Mode :TX Mid

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3760.00        | H               | ---            | -13.00       | ---                  |
| 5640.00        | H               | ---            | -13.00       | ---                  |
| 7520.00        | H               | ---            | -13.00       | ---                  |
| 9400.00        | H               | ---            | -13.00       | ---                  |
| 11280.00       | H               | ---            | -13.00       | ---                  |
| 13160.00       | H               | ---            | -13.00       | ---                  |
| 15040.00       | H               | ---            | -13.00       | ---                  |
| 16920.00       | H               | ---            | -13.00       | ---                  |
| 18800.00       | H               | ---            | -13.00       | ---                  |
| 19660.00       | S               | -32.3          | -13.00       | 19.30                |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1905.0 MHz Engineer :Nick  
Operation Mode :TX High

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3810.00        | H               | ---            | -13.00       | ---                  |
| 5715.00        | H               | ---            | -13.00       | ---                  |
| 7620.00        | H               | ---            | -13.00       | ---                  |
| 9525.00        | H               | ---            | -13.00       | ---                  |
| 11430.00       | H               | ---            | -13.00       | ---                  |
| 13335.00       | H               | ---            | -13.00       | ---                  |
| 15240.00       | H               | ---            | -13.00       | ---                  |
| 17145.00       | H               | ---            | -13.00       | ---                  |
| 19050.00       | H               | ---            | -13.00       | ---                  |
| 19920.00       | S               | -32.34         | -13.00       | 19.34                |

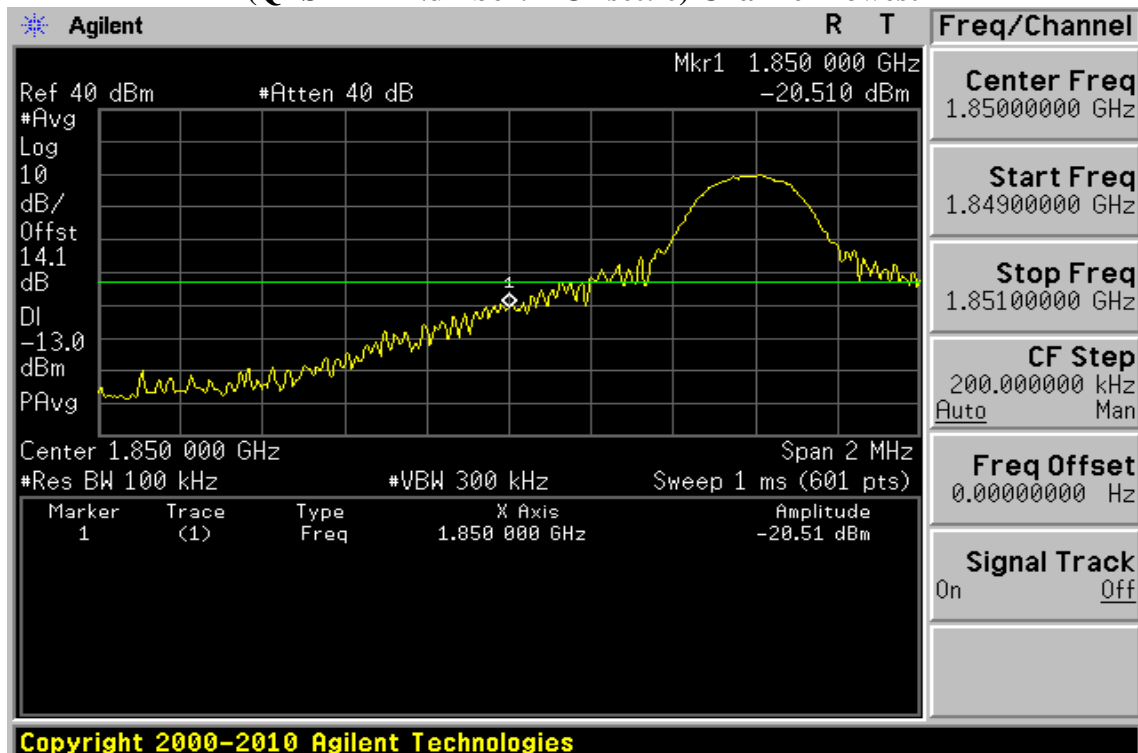
Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“ ” : denotes Spurious Frequency

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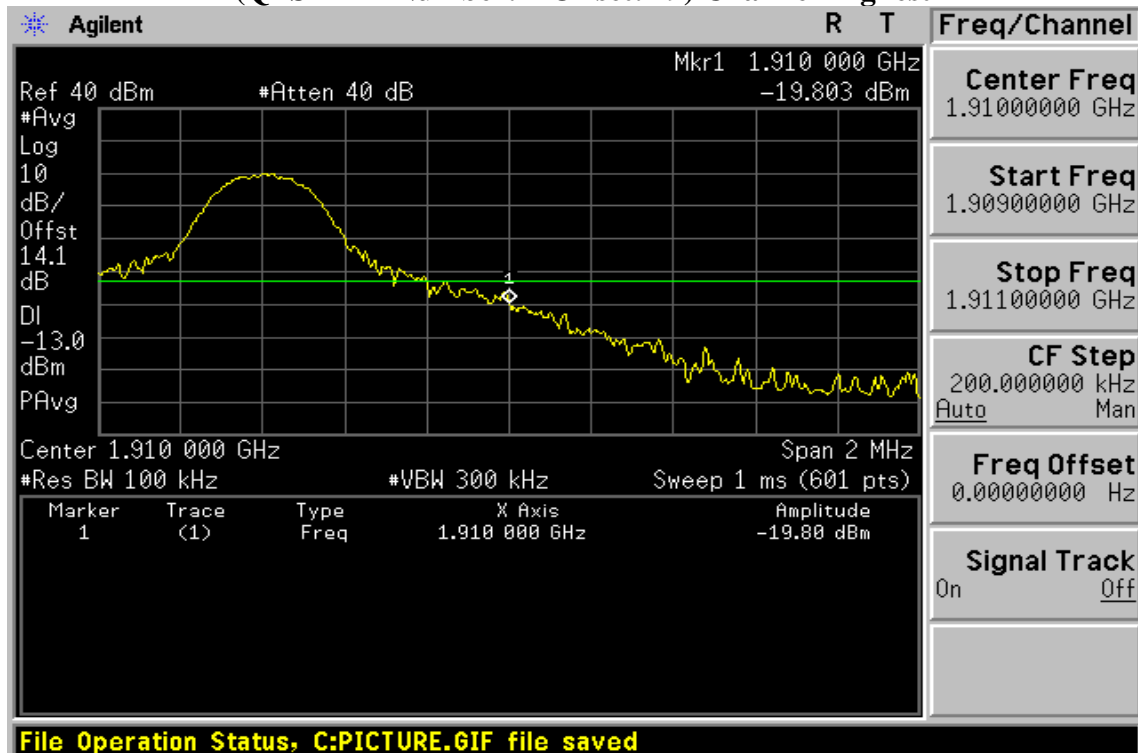
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**Figure 9-84: Band edge emission at antenna terminals –10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-85: Band edge emission at antenna terminals –10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 49) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 2****(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 49)**

Test Mode

10MHz BW LTE-Band 2

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 1850.000     | -25.51         | -13.00       | 12.51                |
| 1910.000     | -19.8          | -13.00       | 6.80                 |

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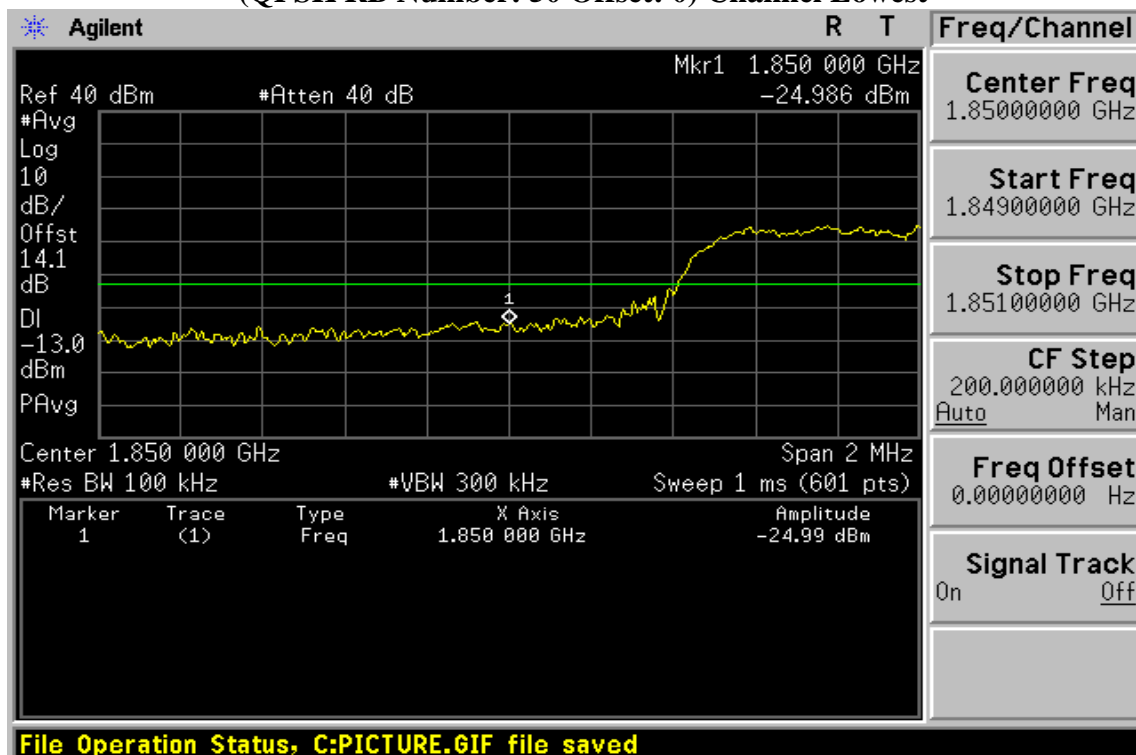
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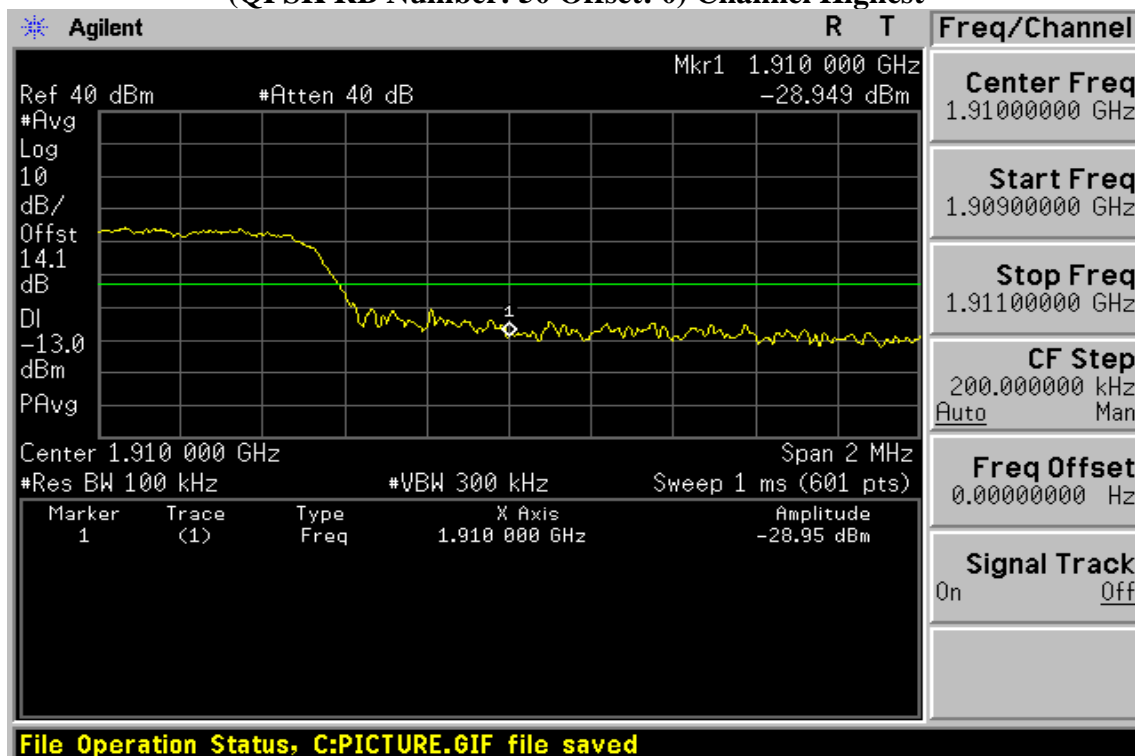
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**Figure 9-86 Band edge emission at antenna terminals –10MHz BW LTE-Band 2  
(QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Figure 9-87: Band edge emission at antenna terminals –10MHz BW LTE-Band 2  
(QPSK RB Number: 50 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 2****(QPSK RB Number: 50 Offset: 0)**

Test Mode 10MHz BW LTE-Band 2 Engineer :Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 1850.000     | -24.99         | -13.00       | 11.99                |
| 1910.000     | -28.95         | -13.00       | 15.95                |

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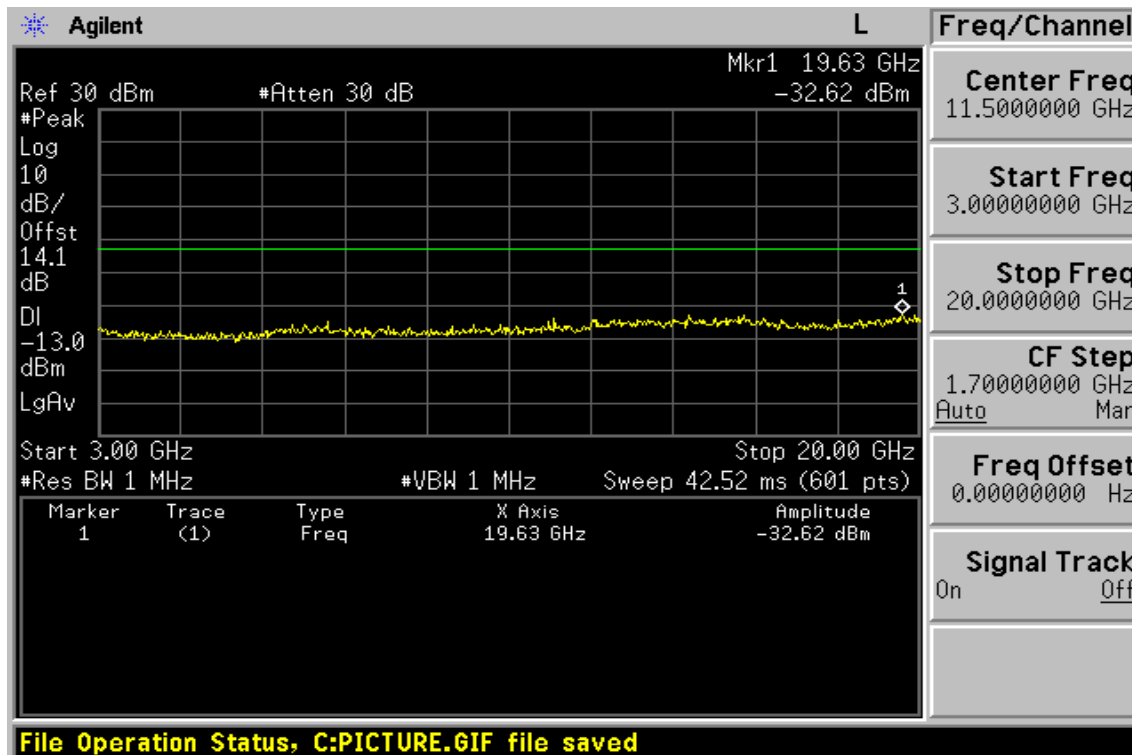
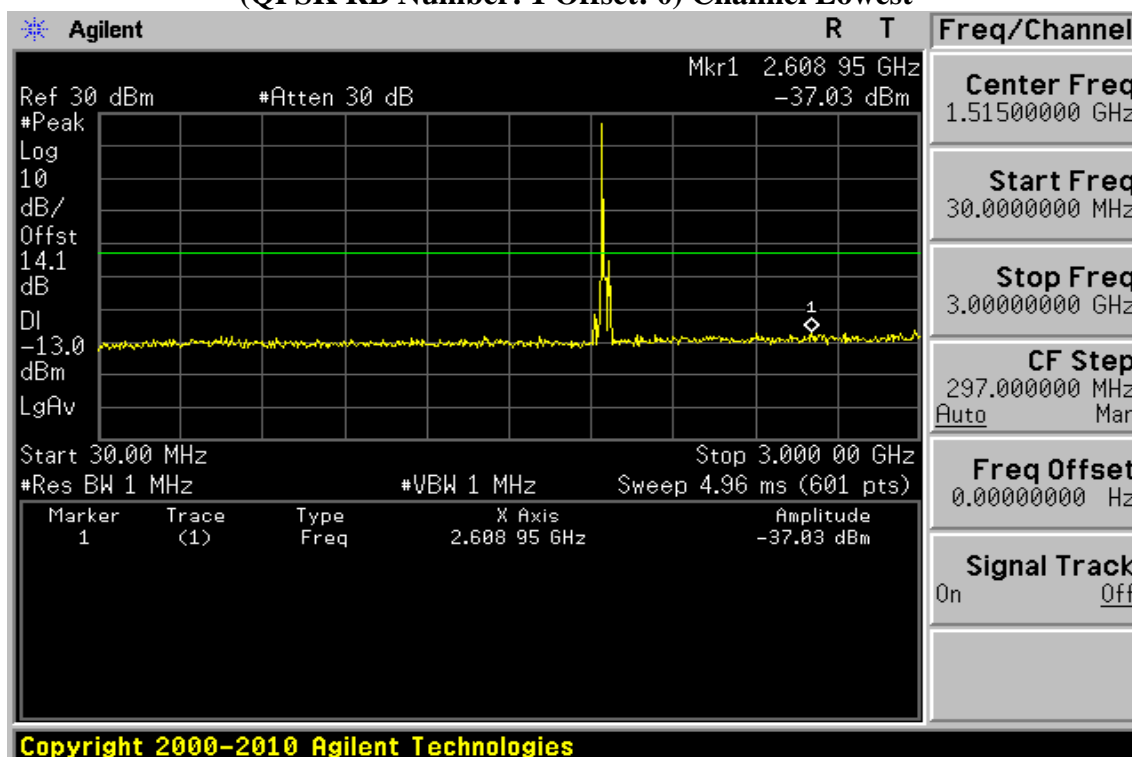
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**Figure 9-88: Out of Band emission at antenna terminals–15MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

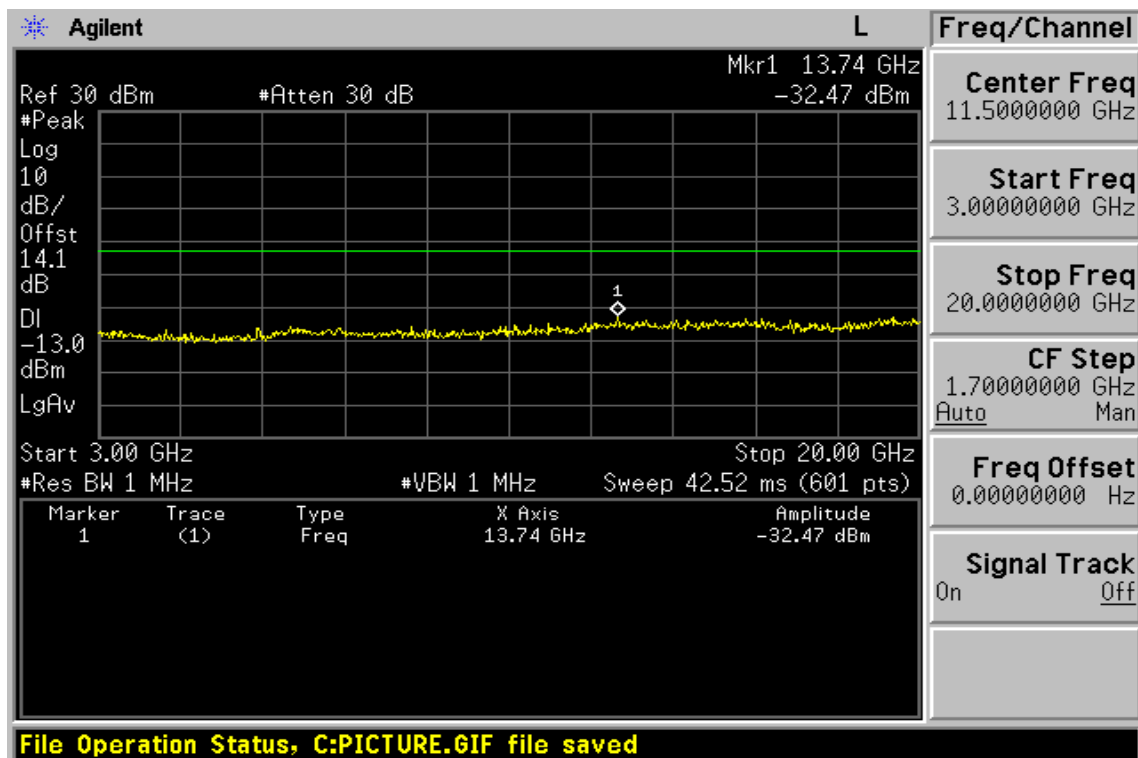
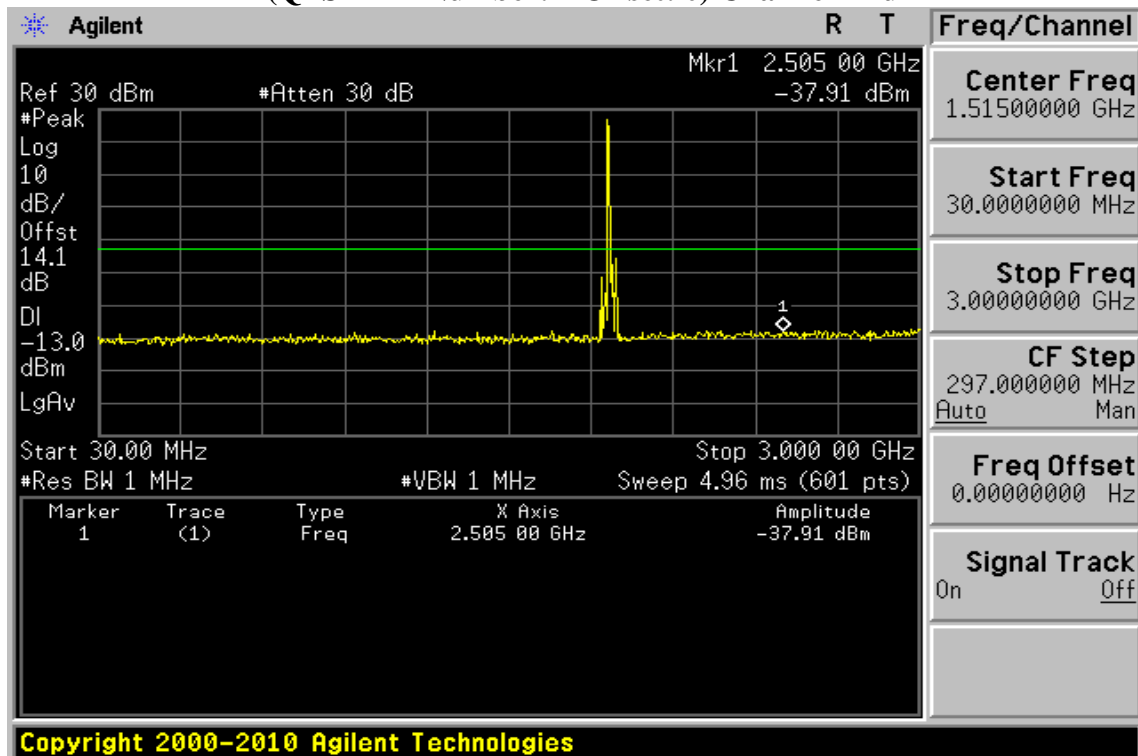


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**Figure 9-89: Out of Band emission at antenna terminals –15MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



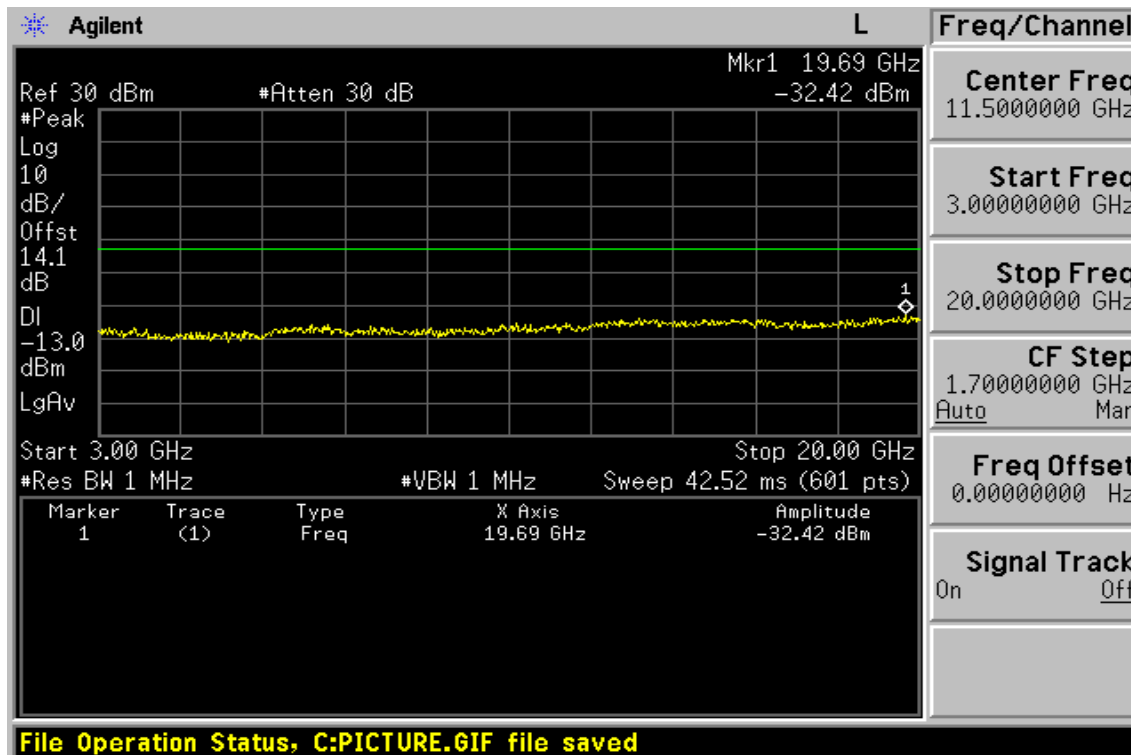
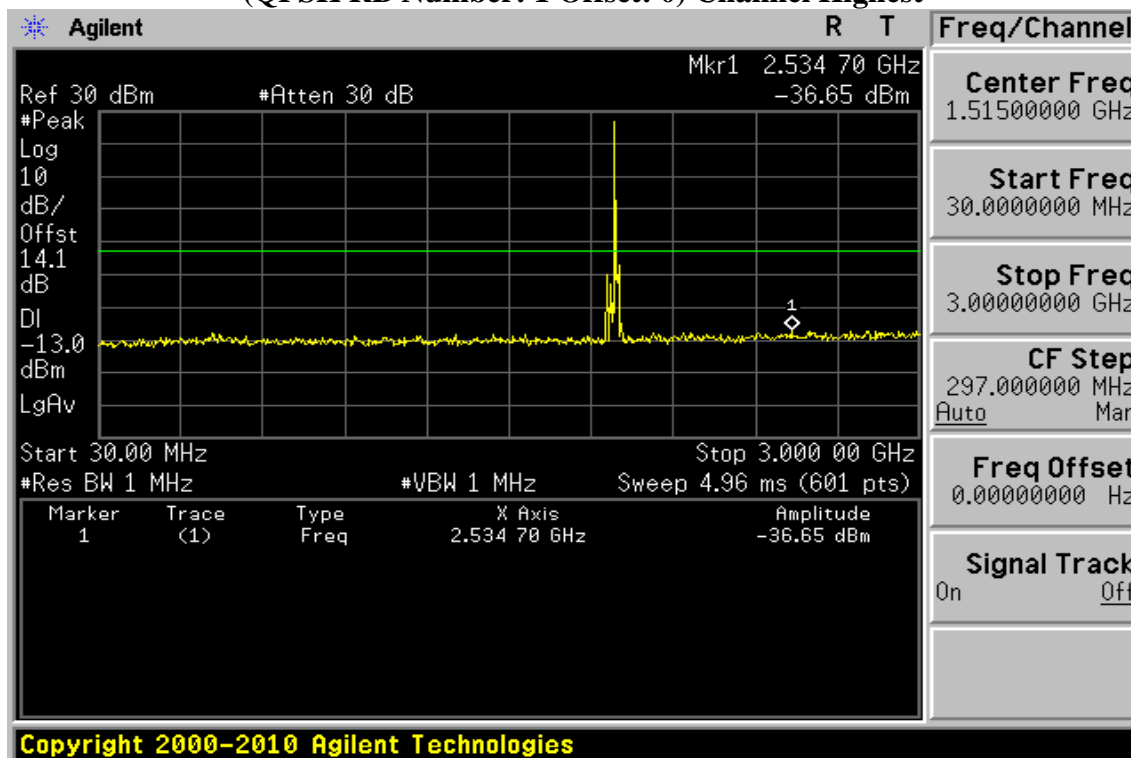
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**Figure 9-90: Out of Band emission at antenna terminals–15MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –15MHz BW LTE-Band 2****(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :1857.5 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3714.00        | H               | ---            | -13.00       | ---                  |
| 5571.00        | H               | ---            | -13.00       | ---                  |
| 7428.00        | H               | ---            | -13.00       | ---                  |
| 9285.00        | H               | ---            | -13.00       | ---                  |
| 11142.00       | H               | ---            | -13.00       | ---                  |
| 12999.00       | H               | ---            | -13.00       | ---                  |
| 14856.00       | H               | ---            | -13.00       | ---                  |
| 16713.00       | H               | ---            | -13.00       | ---                  |
| 18570.00       | H               | ---            | -13.00       | ---                  |
| 19630.00       | S               | -32.62         | -13.00       | 19.62                |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick  
Operation Mode :TX Mid

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3760.00        | H               | ---            | -13.00       | ---                  |
| 5640.00        | H               | ---            | -13.00       | ---                  |
| 7520.00        | H               | ---            | -13.00       | ---                  |
| 9400.00        | H               | ---            | -13.00       | ---                  |
| 11280.00       | H               | ---            | -13.00       | ---                  |
| 13160.00       | H               | ---            | -13.00       | ---                  |
| 13740.00       | S               | -32.47         | -13.00       | 19.47                |
| 15040.00       | H               | ---            | -13.00       | ---                  |
| 16920.00       | H               | ---            | -13.00       | ---                  |
| 18800.00       | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1902.5 MHz Engineer :Nick  
Operation Mode :TX High

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3805.00        | H               | ---            | -13.00       | ---                  |
| 5707.50        | H               | ---            | -13.00       | ---                  |
| 7610.00        | H               | ---            | -13.00       | ---                  |
| 9512.50        | H               | ---            | -13.00       | ---                  |
| 11415.00       | H               | ---            | -13.00       | ---                  |
| 13317.50       | H               | ---            | -13.00       | ---                  |
| 15220.00       | H               | ---            | -13.00       | ---                  |
| 17122.50       | H               | ---            | -13.00       | ---                  |
| 19025.00       | H               | ---            | -13.00       | ---                  |
| 19690.00       | S               | -32.42         | -13.00       | 19.42                |

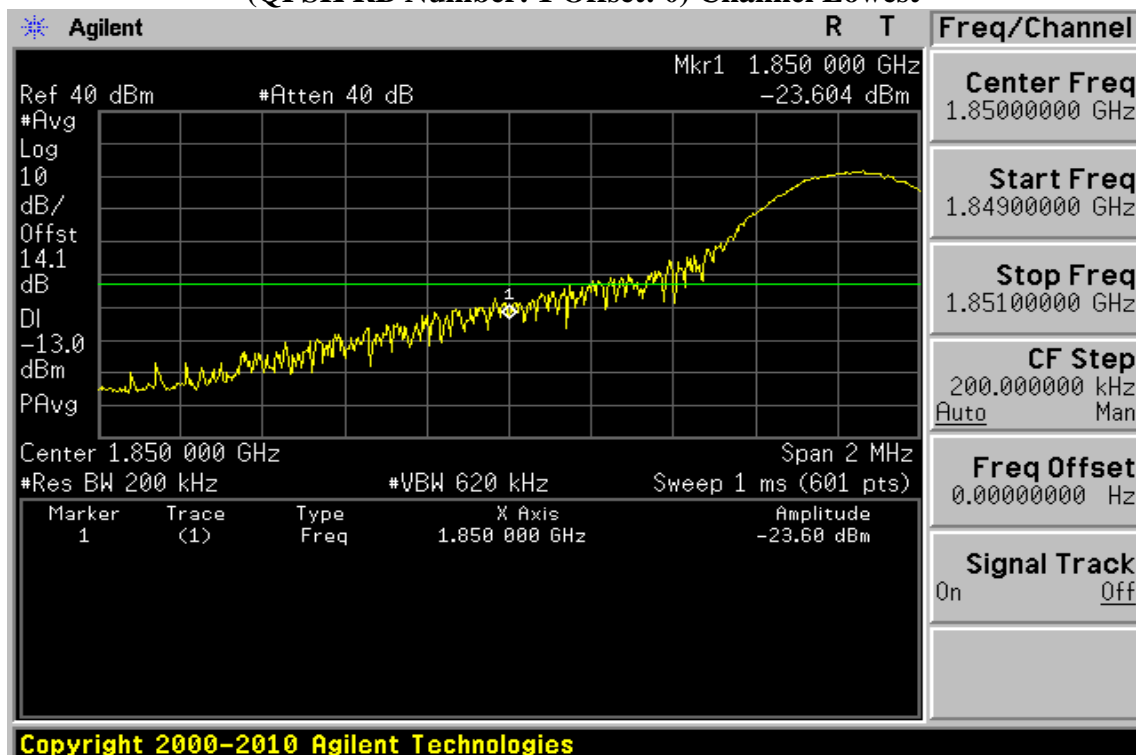
Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“” : denotes Spurious Freque

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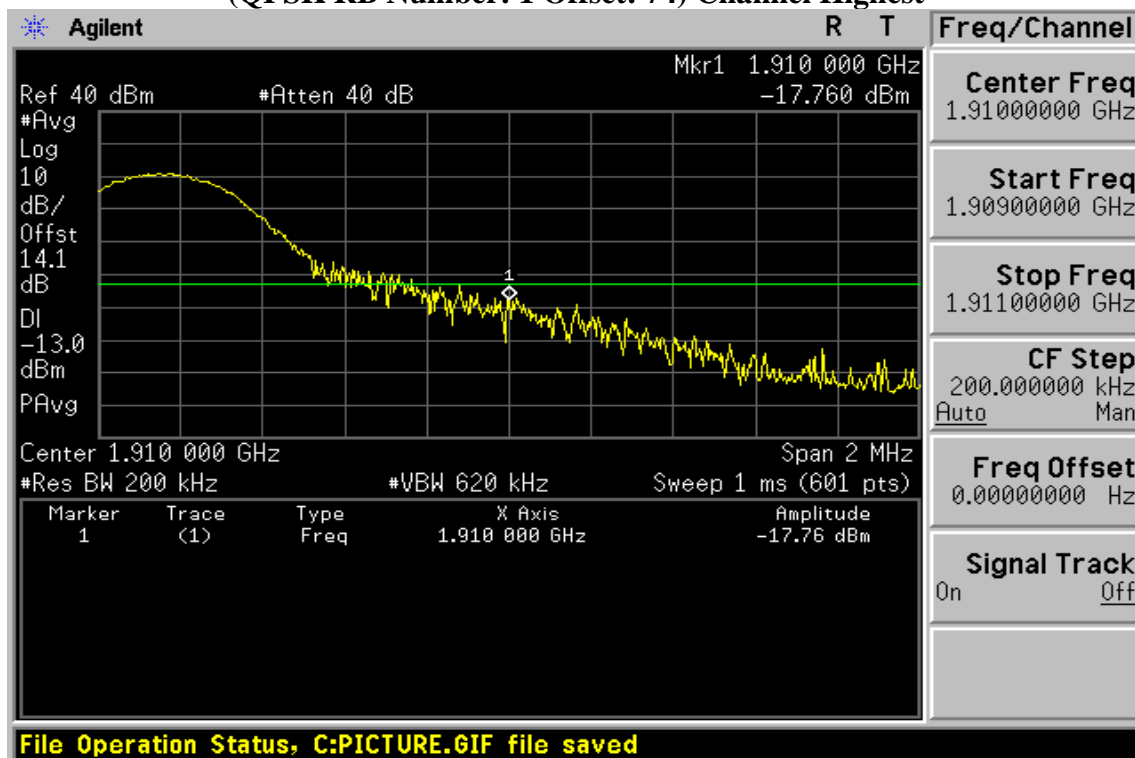
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**Figure 9-91: Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-92: Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 74) Channel Highest**



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**Band edge emission at antenna terminals –15MHz BW LTE-Band 2****(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 74)**

Test Mode

15MHz BW LTE-Band 2

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 1850.000     | -23.60         | -13.00       | 10.60                |
| 1910.000     | -17.76         | -13.00       | 4.76                 |

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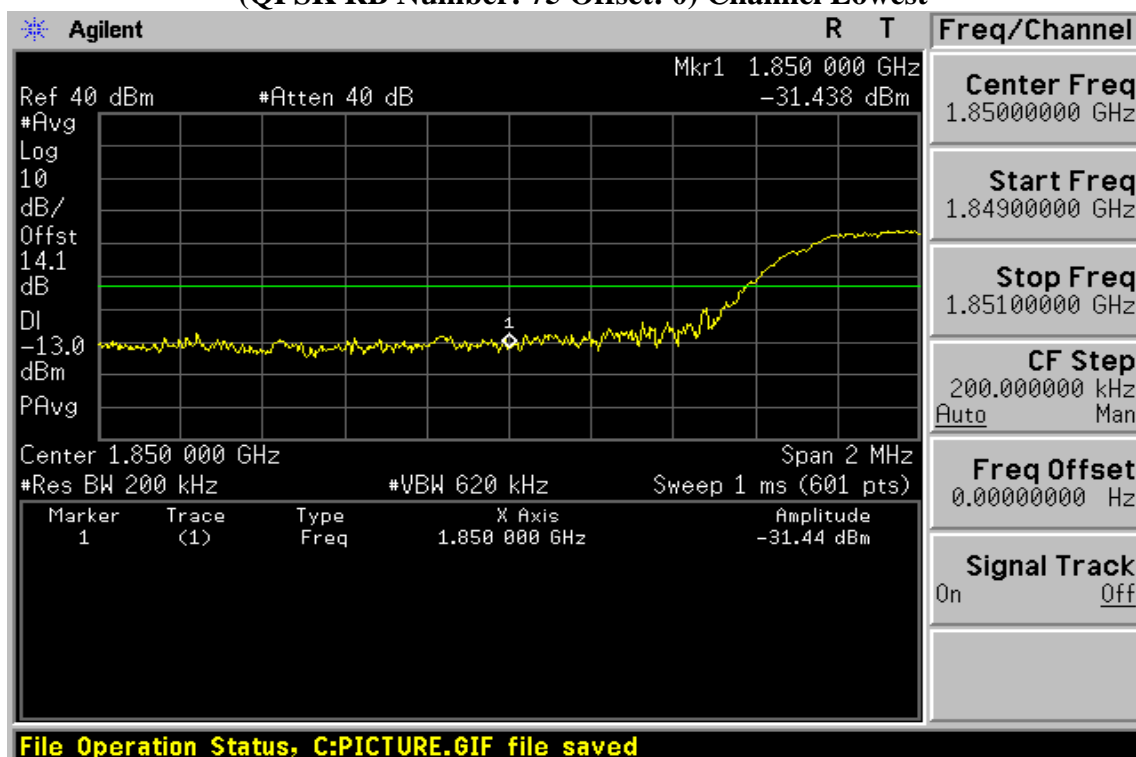
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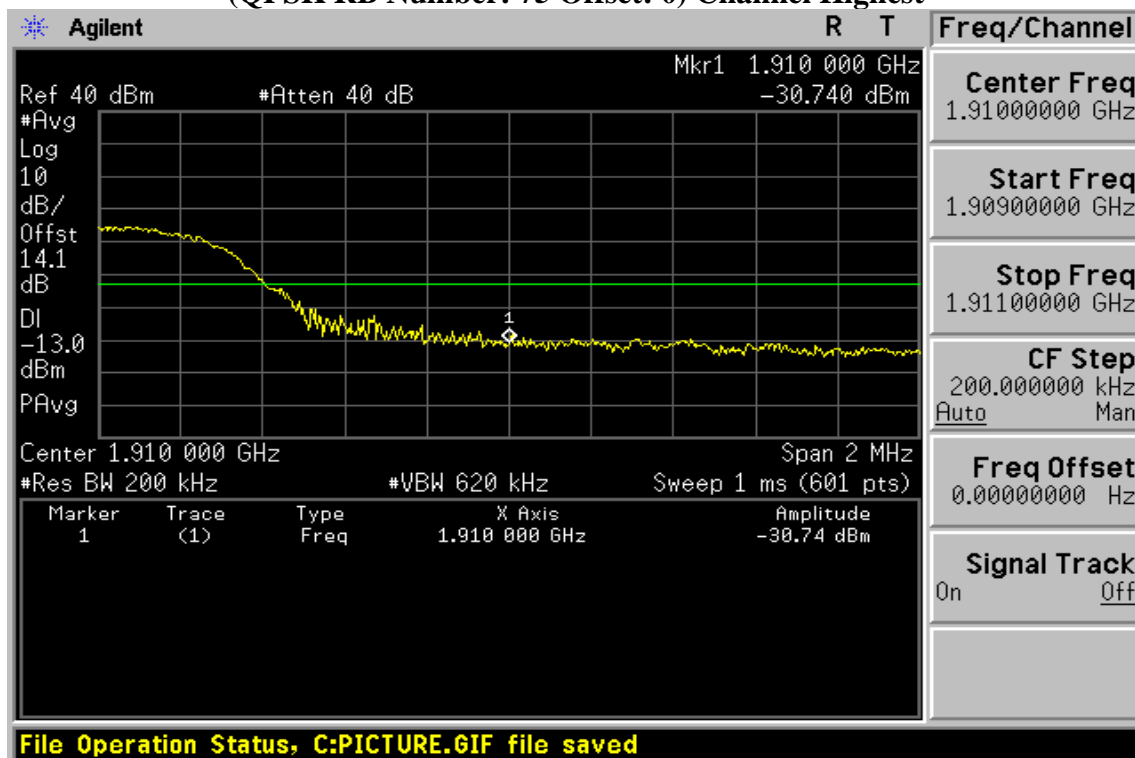
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**Figure 9-93: Band edge emission at antenna terminals –15MHz BW LTE-Band 2  
(QPSK RB Number: 75 Offset: 0) Channel Lowest**



**Figure 9-94: Band edge emission at antenna terminals –15MHz BW LTE-Band 2  
(QPSK RB Number: 75 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –15MHz BW LTE-Band 2****(QPSK RB Number: 75 Offset: 0)**

Test Mode 15MHz BW LTE-Band 2 Engineer :Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 1850.000     | -31.44         | -13.00       | 18.44                |
| 1910.000     | -30.74         | -13.00       | 17.74                |

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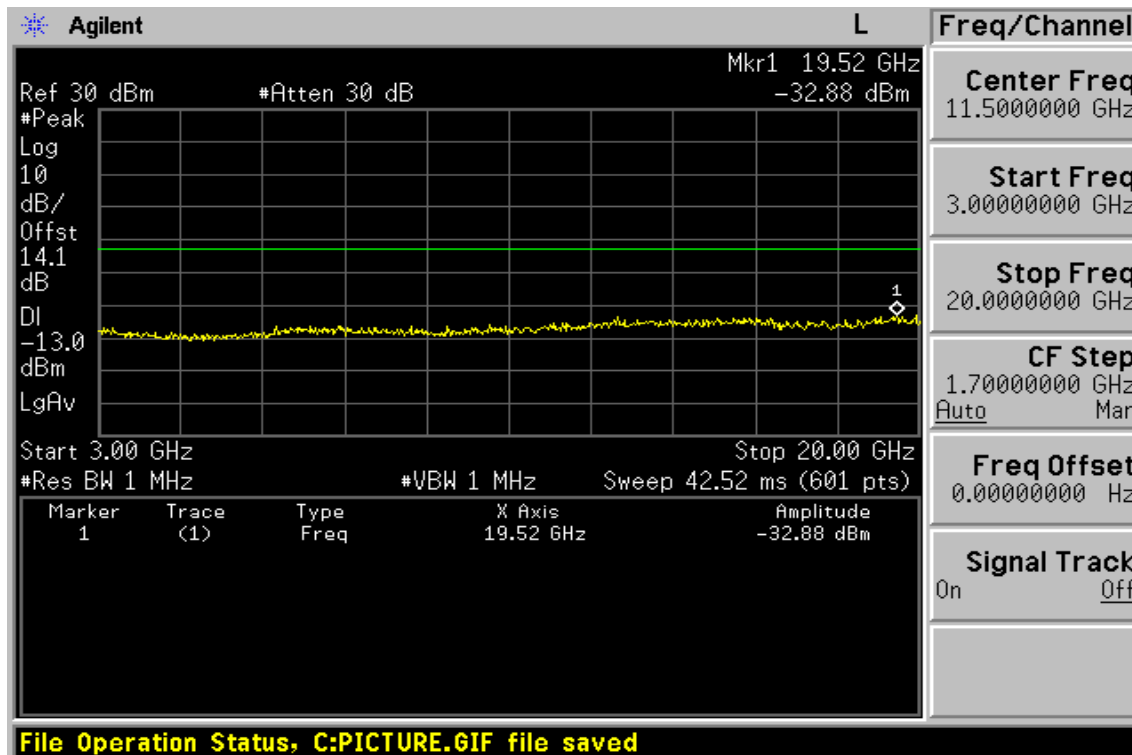
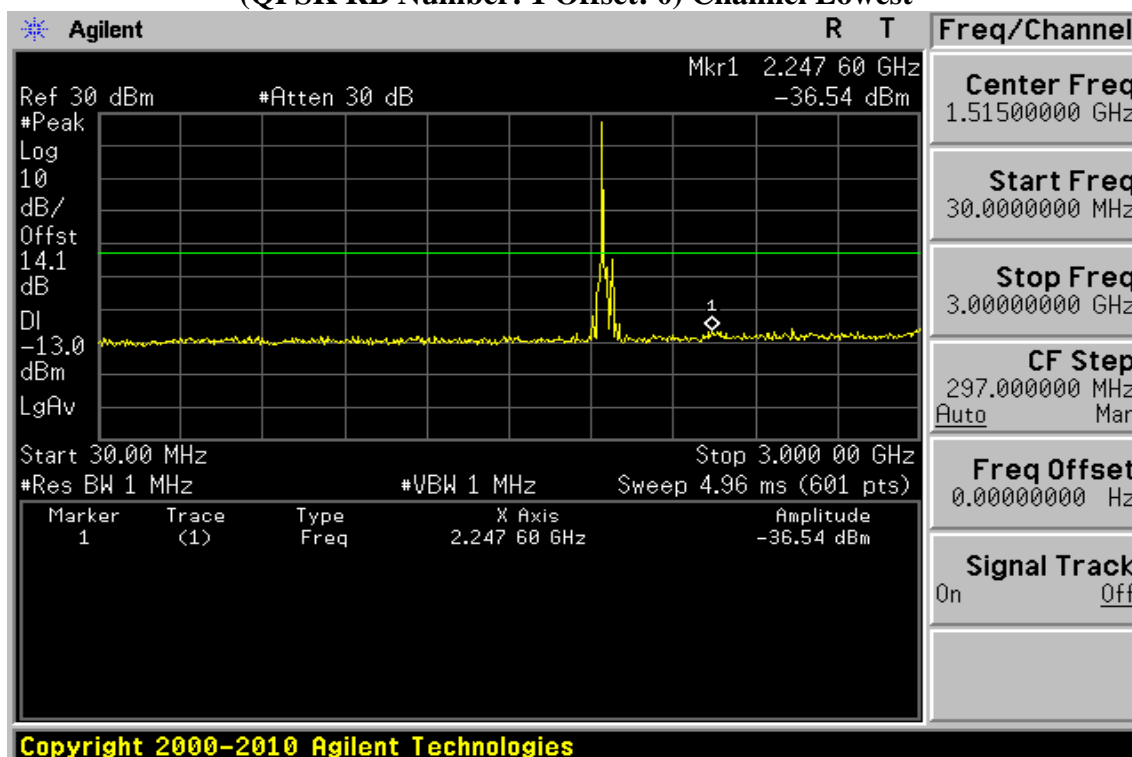
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**Figure 9-95: Out of Band emission at antenna terminals–20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest**

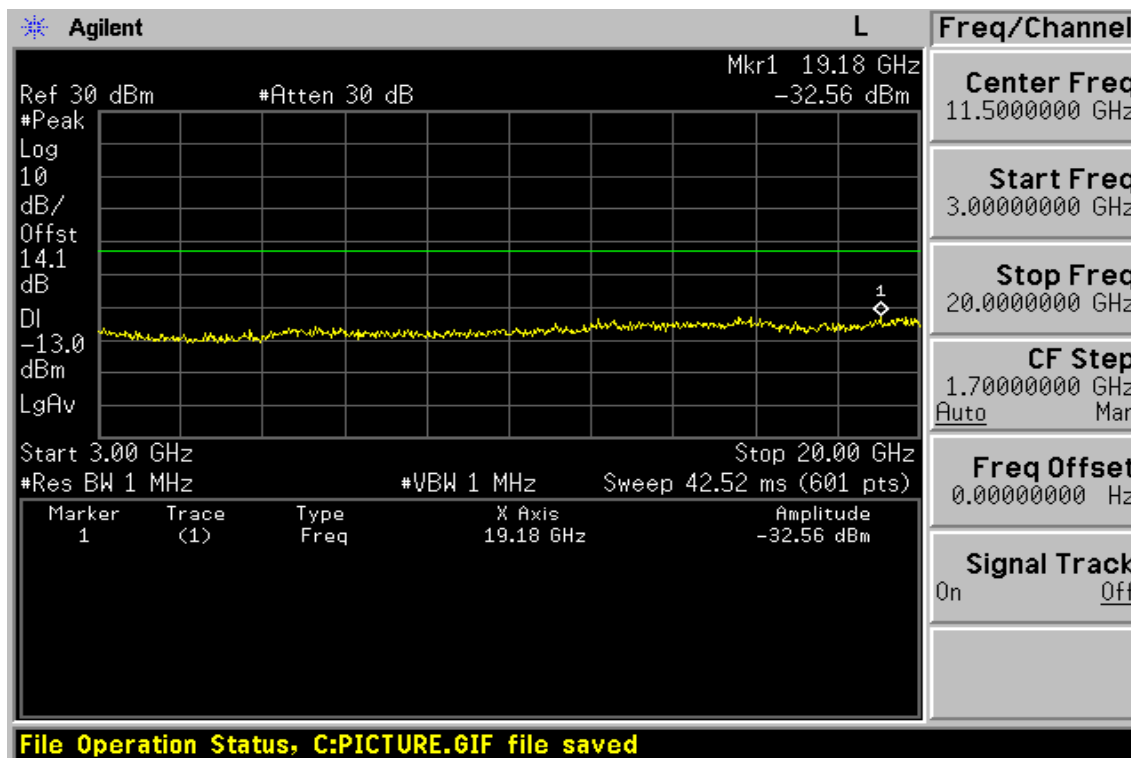
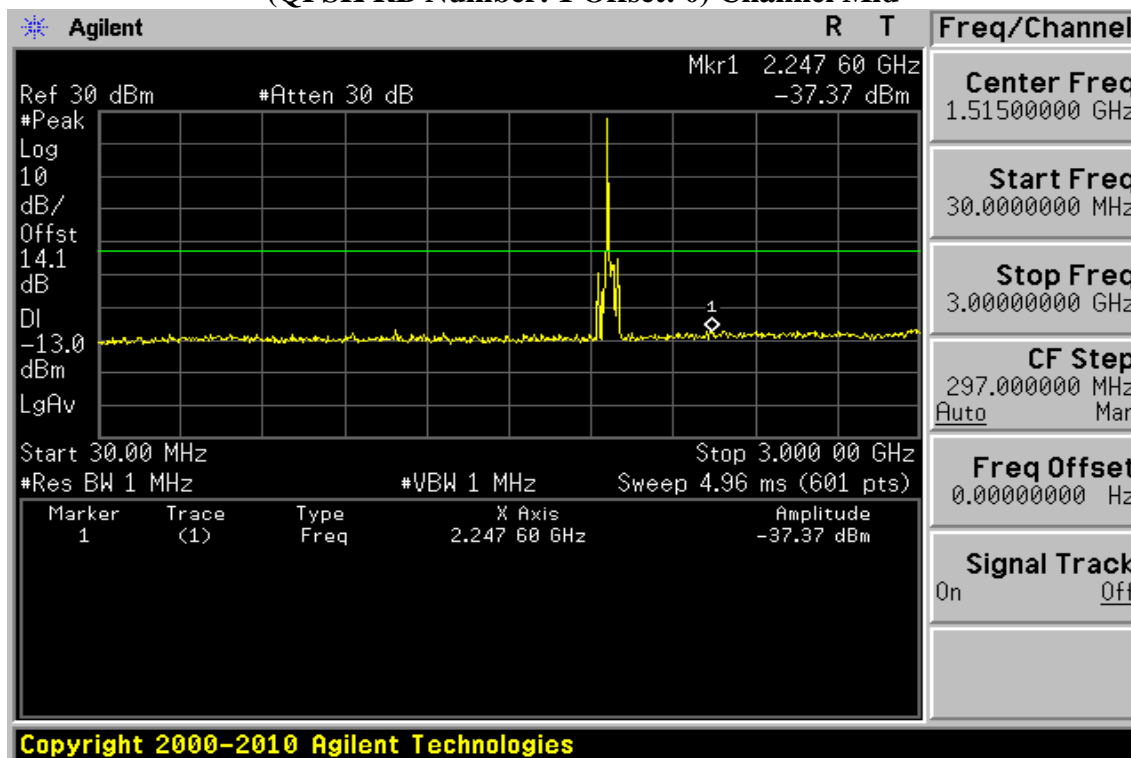


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**Figure 9-96: Out of Band emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid**

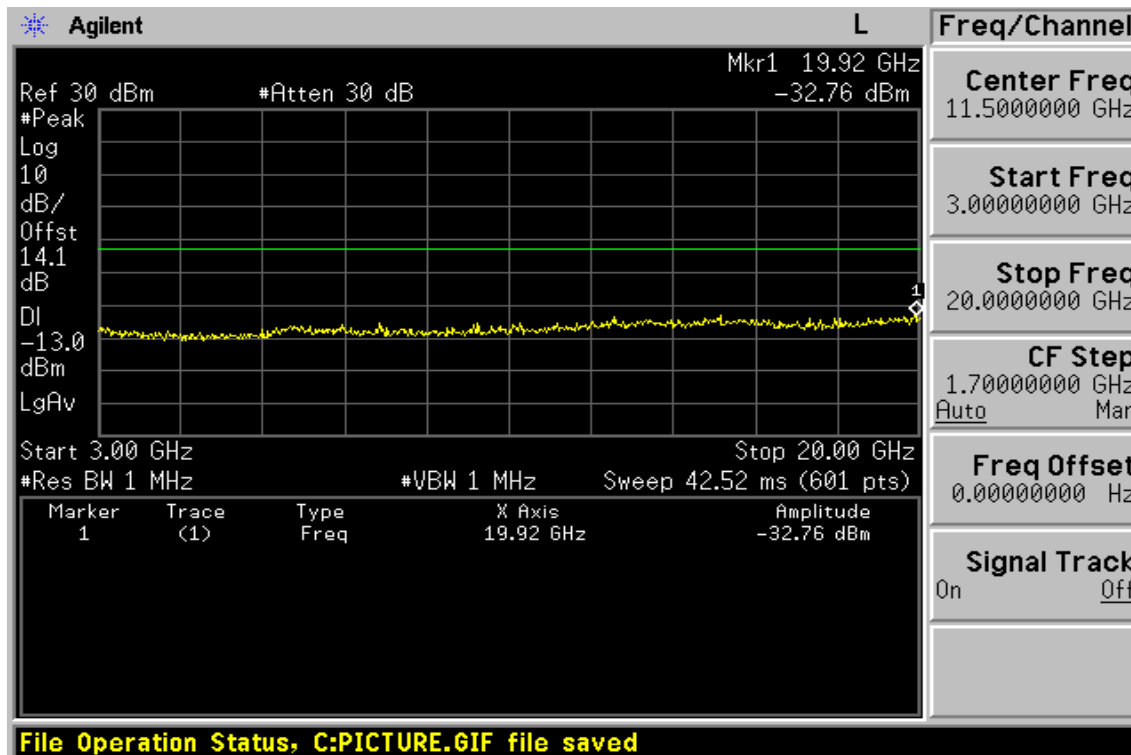
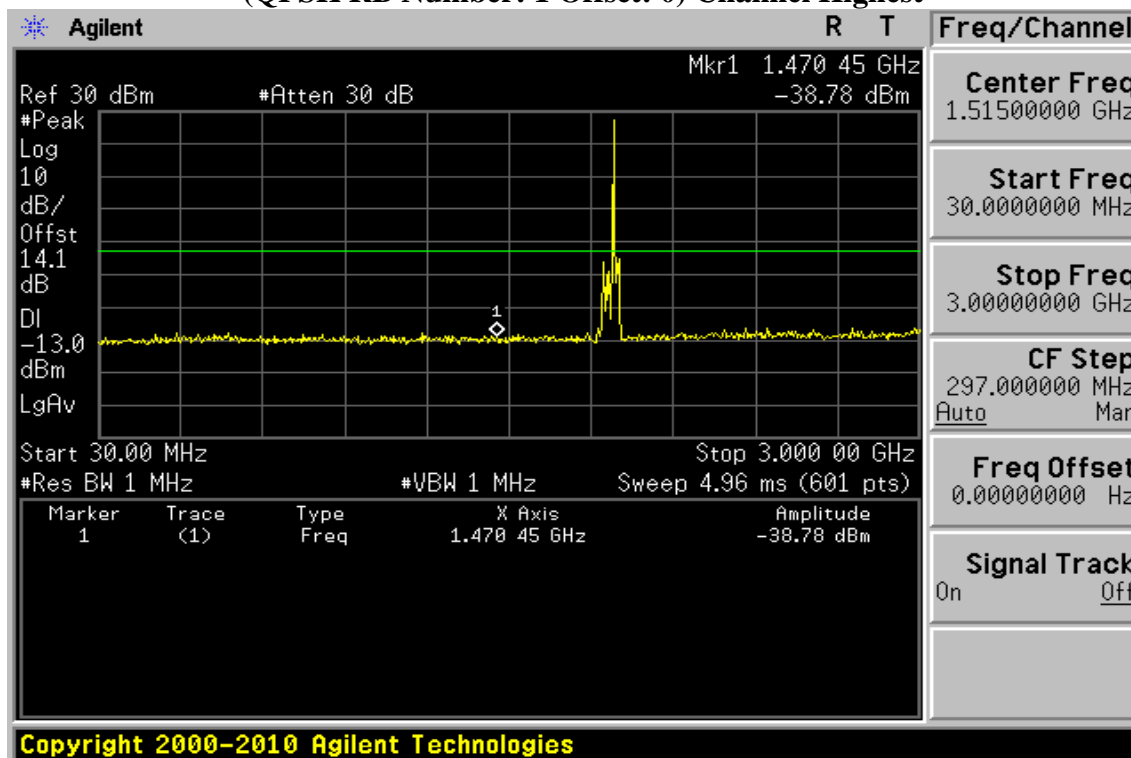


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**Figure 9-97: Out of Band emission at antenna terminals–20MHz BW LTE-Band 2  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –20MHz BW LTE-Band 2****(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :1860.0 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3720.00        | H               | ---            | -13.00       | ---                  |
| 5580.00        | H               | ---            | -13.00       | ---                  |
| 7440.00        | H               | ---            | -13.00       | ---                  |
| 9300.00        | H               | ---            | -13.00       | ---                  |
| 11160.00       | H               | ---            | -13.00       | ---                  |
| 13020.00       | H               | ---            | -13.00       | ---                  |
| 14880.00       | H               | ---            | -13.00       | ---                  |
| 16740.00       | H               | ---            | -13.00       | ---                  |
| 18600.00       | H               | ---            | -13.00       | ---                  |
| 19520.00       | S               | -32.88         | -13.00       | 19.88                |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1880.0 MHz Engineer :Nick  
Operation Mode :TX Mid

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3760.00        | H               | ---            | -13.00       | ---                  |
| 5640.00        | H               | ---            | -13.00       | ---                  |
| 7520.00        | H               | ---            | -13.00       | ---                  |
| 9400.00        | H               | ---            | -13.00       | ---                  |
| 11280.00       | H               | ---            | -13.00       | ---                  |
| 13160.00       | H               | ---            | -13.00       | ---                  |
| 15040.00       | H               | ---            | -13.00       | ---                  |
| 16920.00       | H               | ---            | -13.00       | ---                  |
| 18800.00       | H               | ---            | -13.00       | ---                  |
| 19180.00       | S               | -32.56         | -13.00       | 19.56                |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :1900MHz  
Operation Mode :TX High

Engineer :Nick

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 3800.00        | H               | ---            | -13.00       | ---                  |
| 5700.00        | H               | ---            | -13.00       | ---                  |
| 7600.00        | H               | ---            | -13.00       | ---                  |
| 9500.00        | H               | ---            | -13.00       | ---                  |
| 11400.00       | H               | ---            | -13.00       | ---                  |
| 13300.00       | H               | ---            | -13.00       | ---                  |
| 15200.00       | H               | ---            | -13.00       | ---                  |
| 17100.00       | H               | ---            | -13.00       | ---                  |
| 19000.00       | H               | ---            | -13.00       | ---                  |
| 19920.00       | S               | -32.76         | -13.00       | 19.76                |

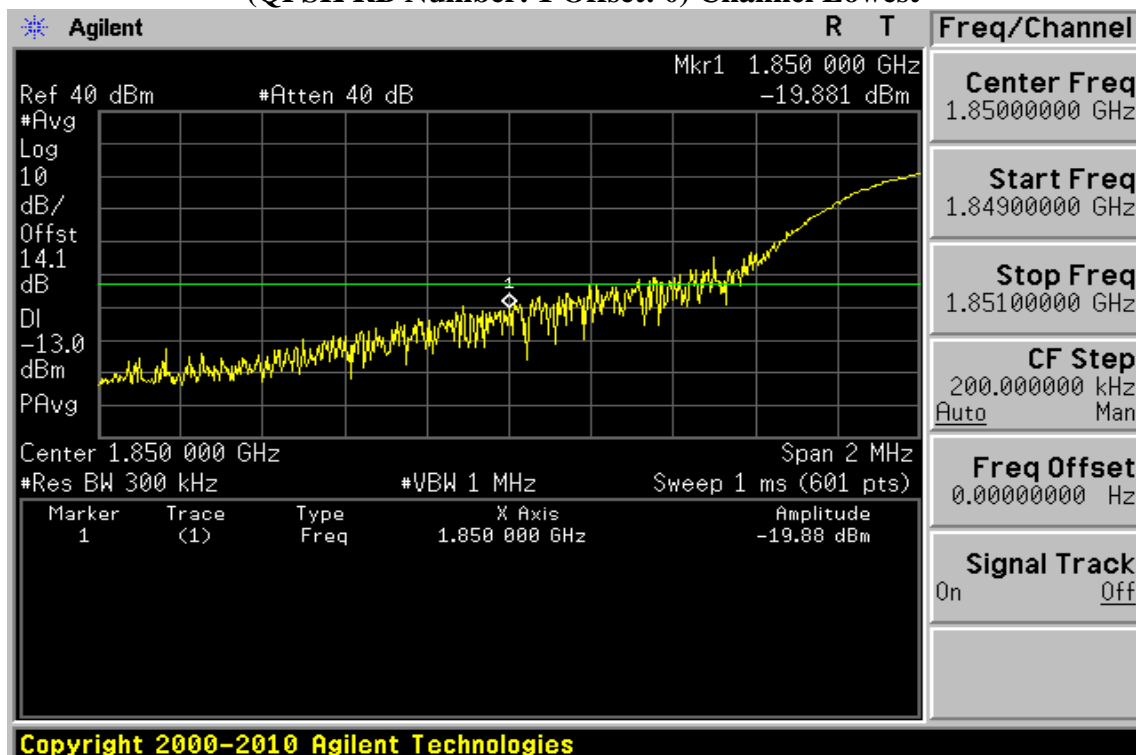
Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"---" : denotes Spurious Frequency

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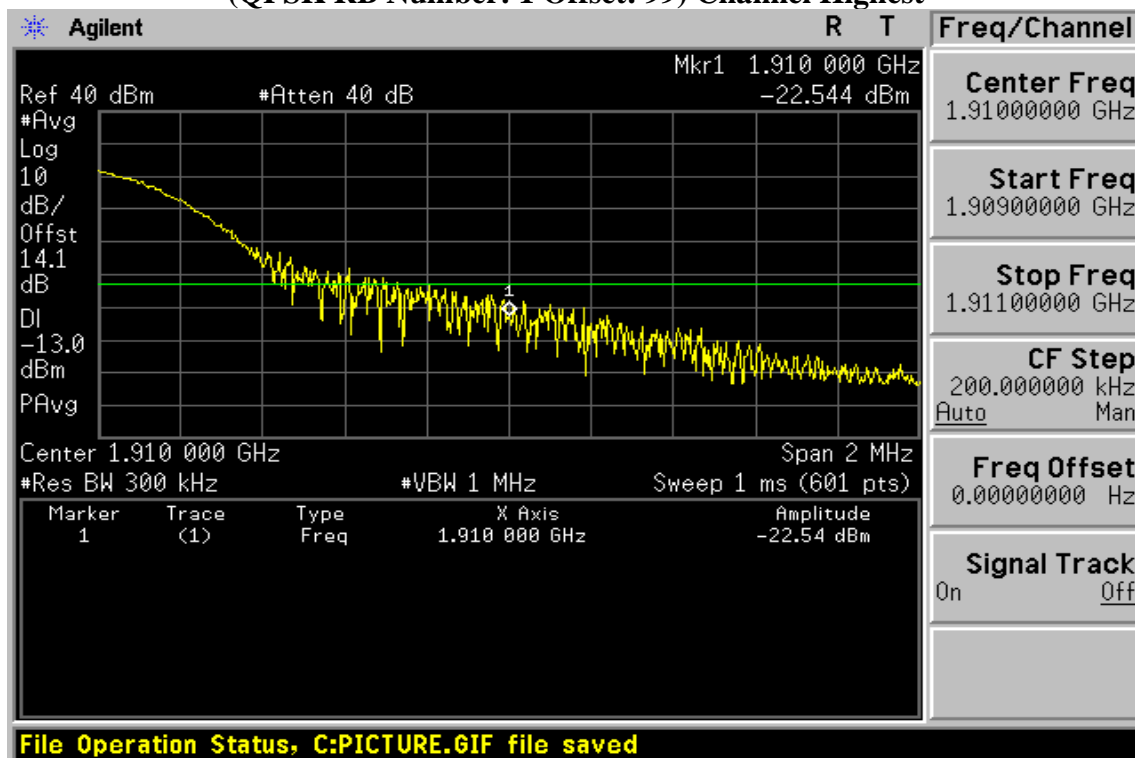
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**Figure 9-98: Band edge emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-99: Band edge emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 99) Channel Highest**



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**Band edge emission at antenna terminals –20MHz BW LTE-Band 2****(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 99)**

Test Mode

20MHz BW LTE-Band 2

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 1850.000     | -19.88         | -13.00       | 6.88                 |
| 1910.000     | -22.54         | -13.00       | 9.54                 |

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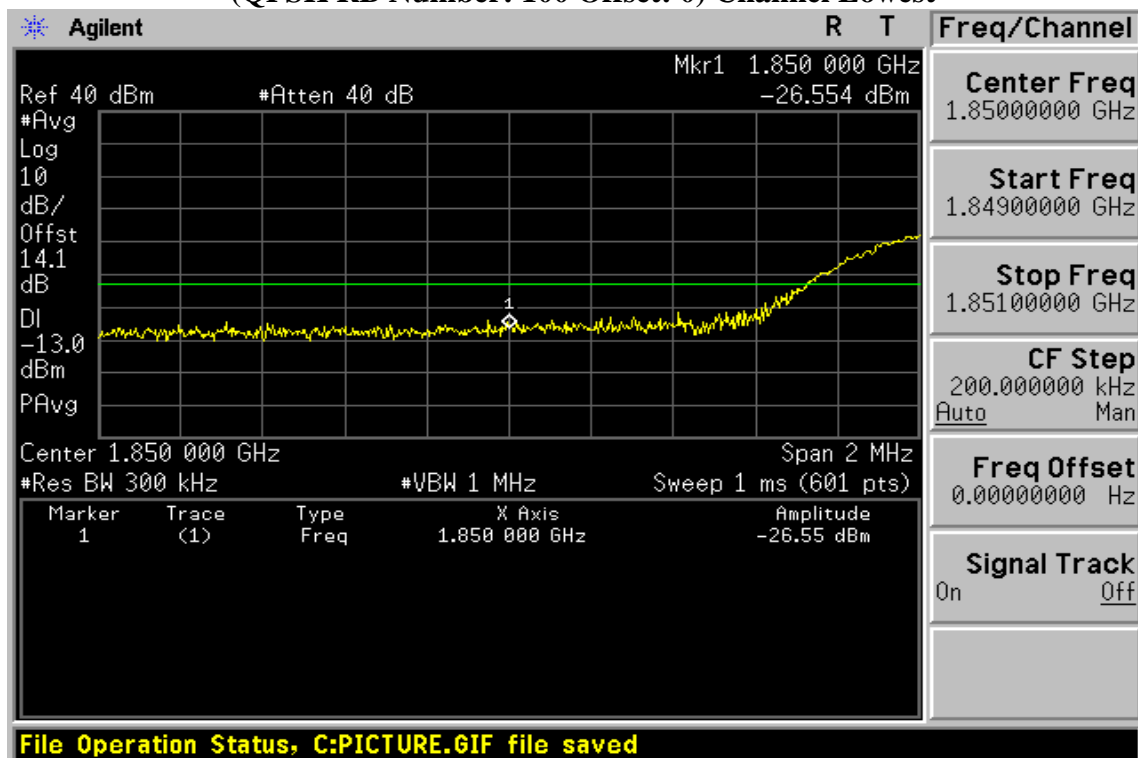
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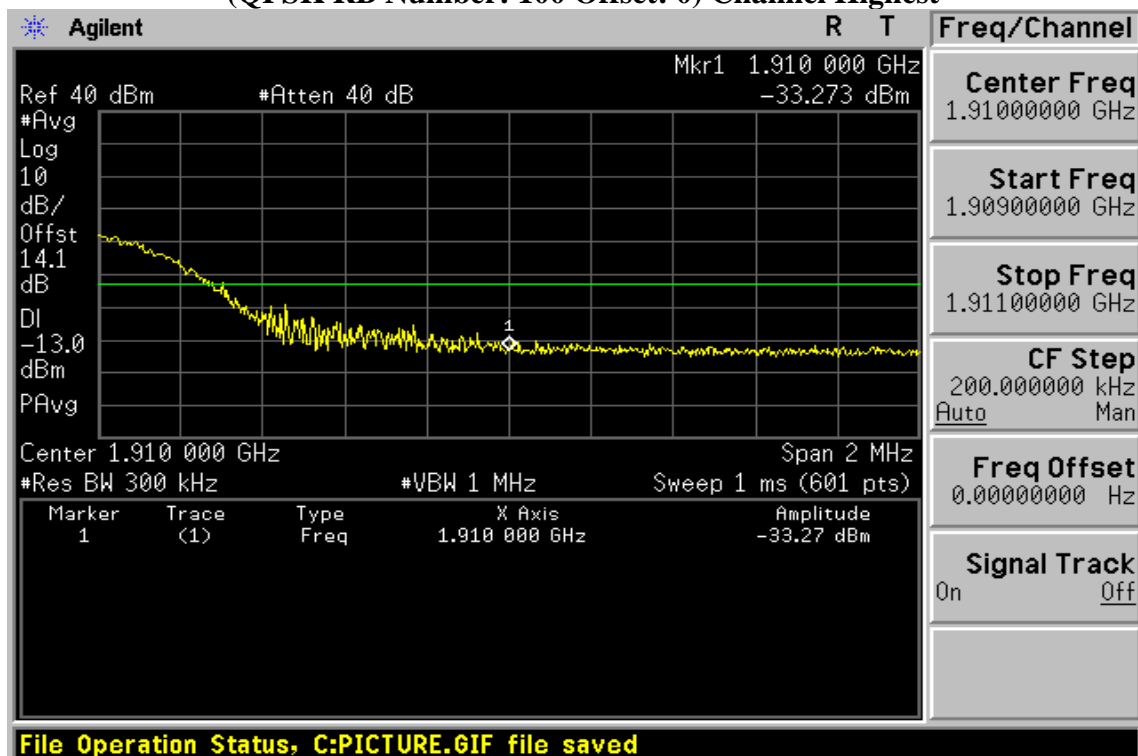
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**Figure 9-100: Band edge emission at antenna terminals –20MHz BW LTE-Band 2  
(QPSK RB Number: 100 Offset: 0) Channel Lowest**



**Figure 9-101: Band edge emission at antenna terminals –20MHz BW LTE-Band 2  
(QPSK RB Number: 100 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –20MHz BW LTE-Band 2****(QPSK RB Number: 100 Offset: 0)**

Test Mode 20MHz BW LTE-Band 2 Engineer :Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 1850.000     | -26.55         | -13.00       | 13.55                |
| 1910.000     | -33.27         | -13.00       | 20.27                |

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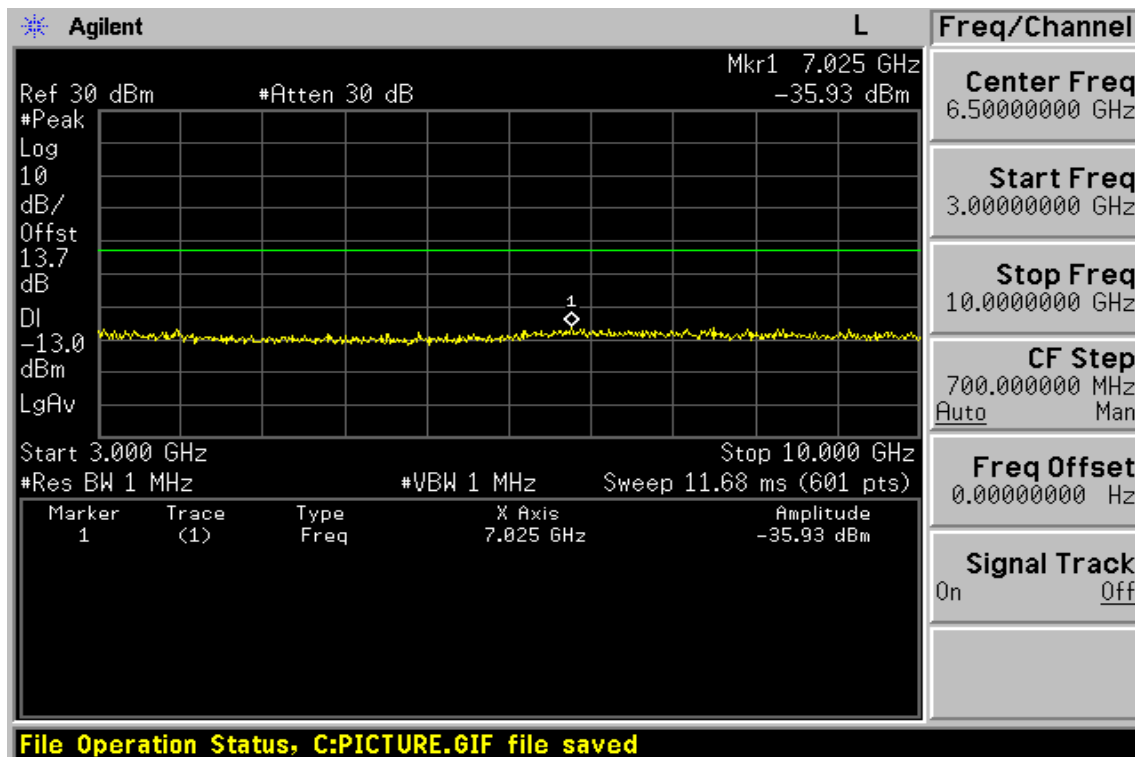
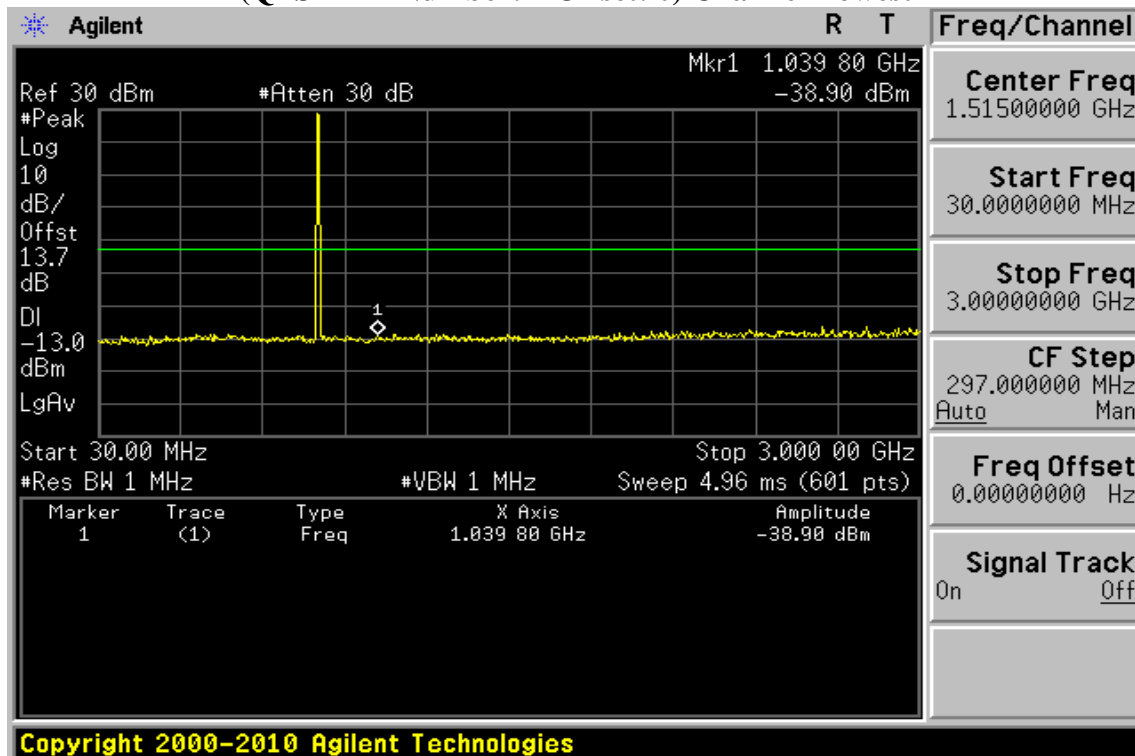
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**Figure 9-102: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest**

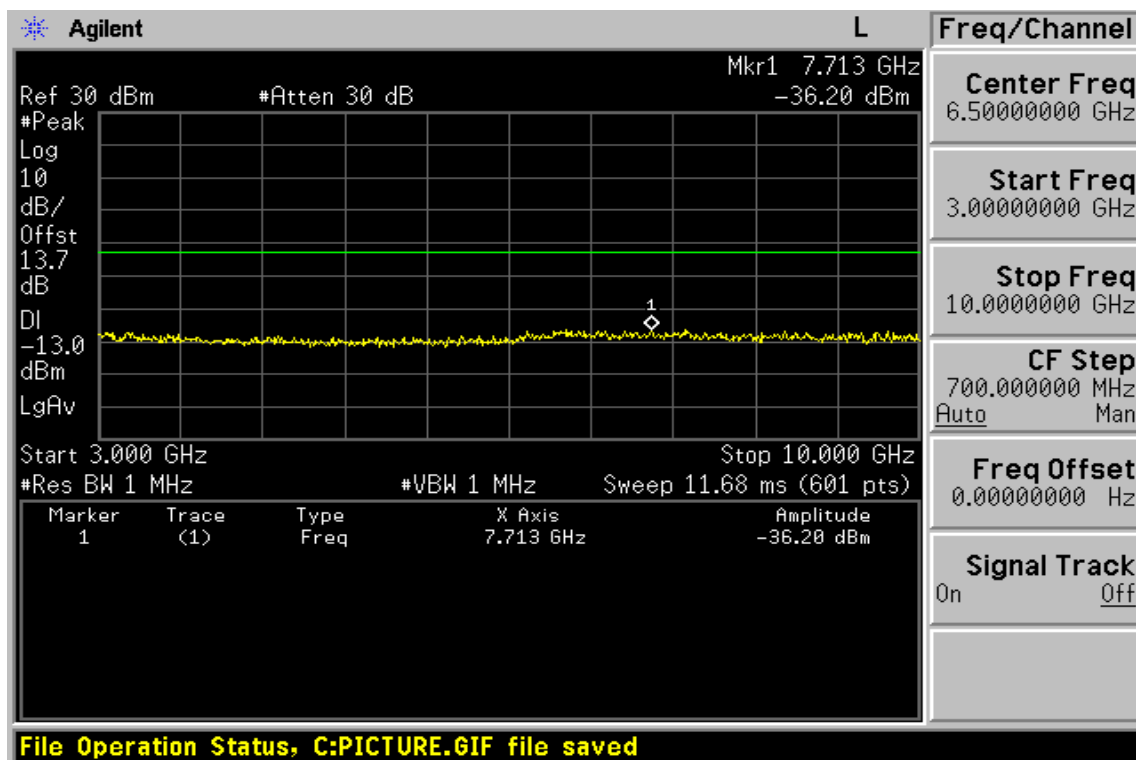
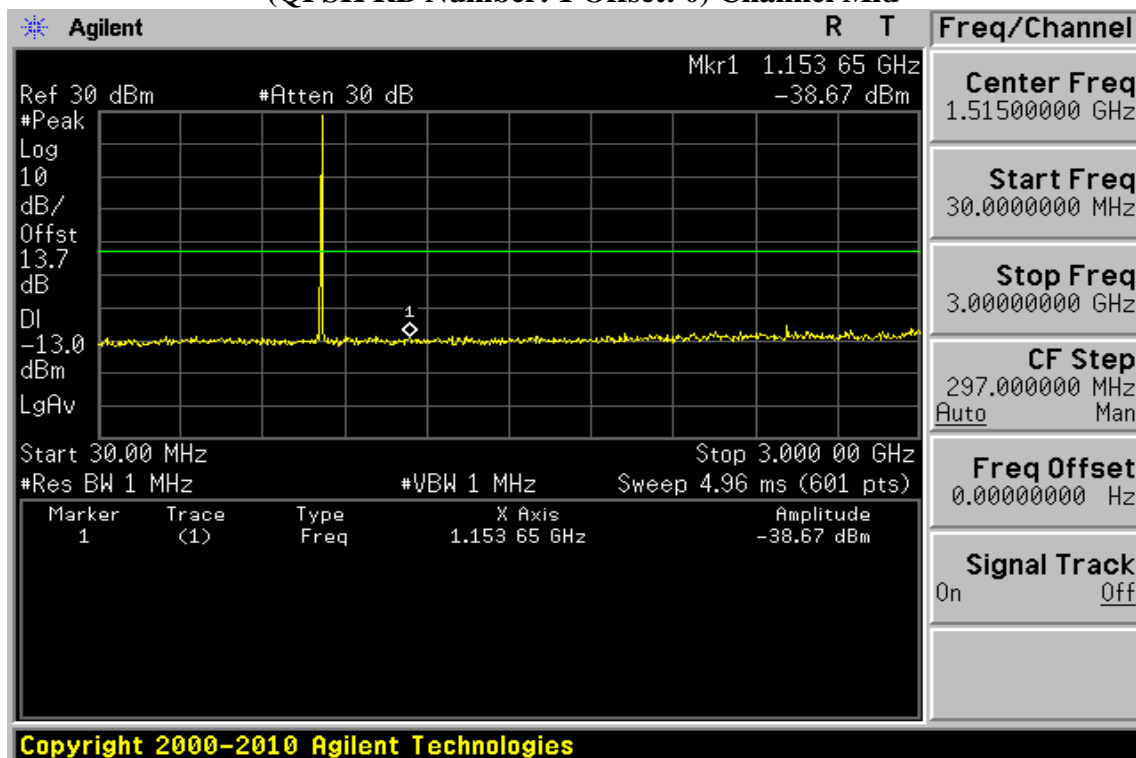


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**Figure 9-103: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Mid**

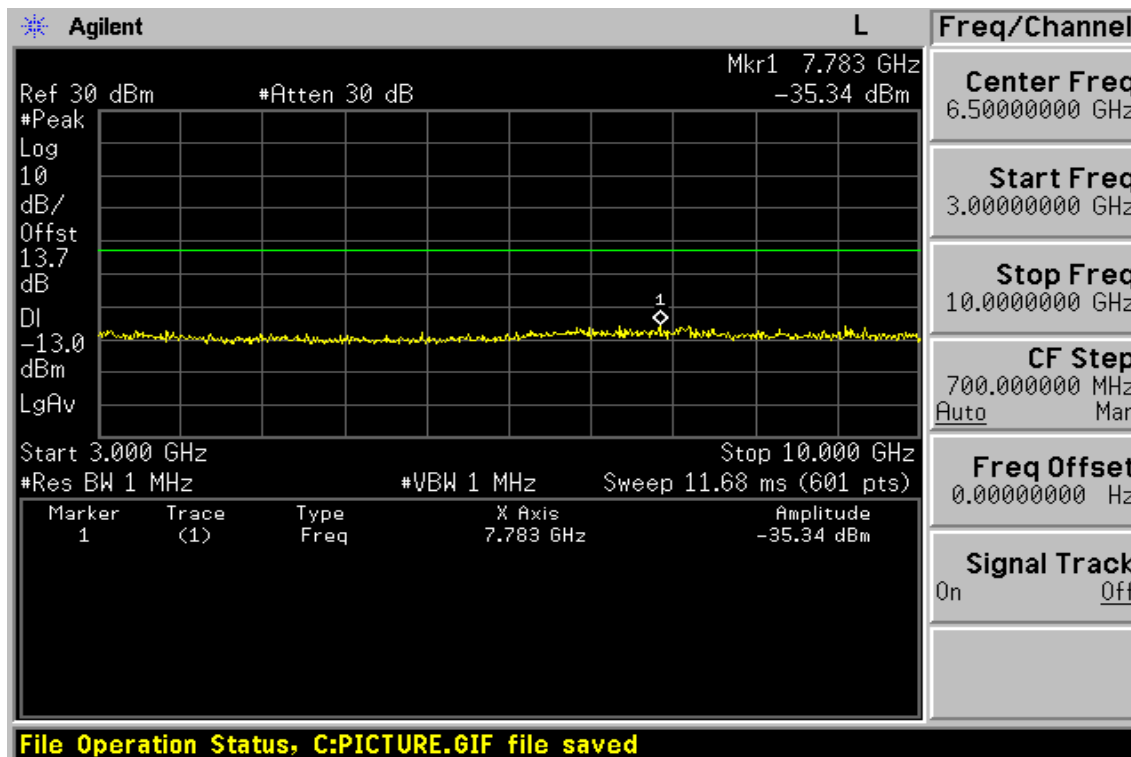
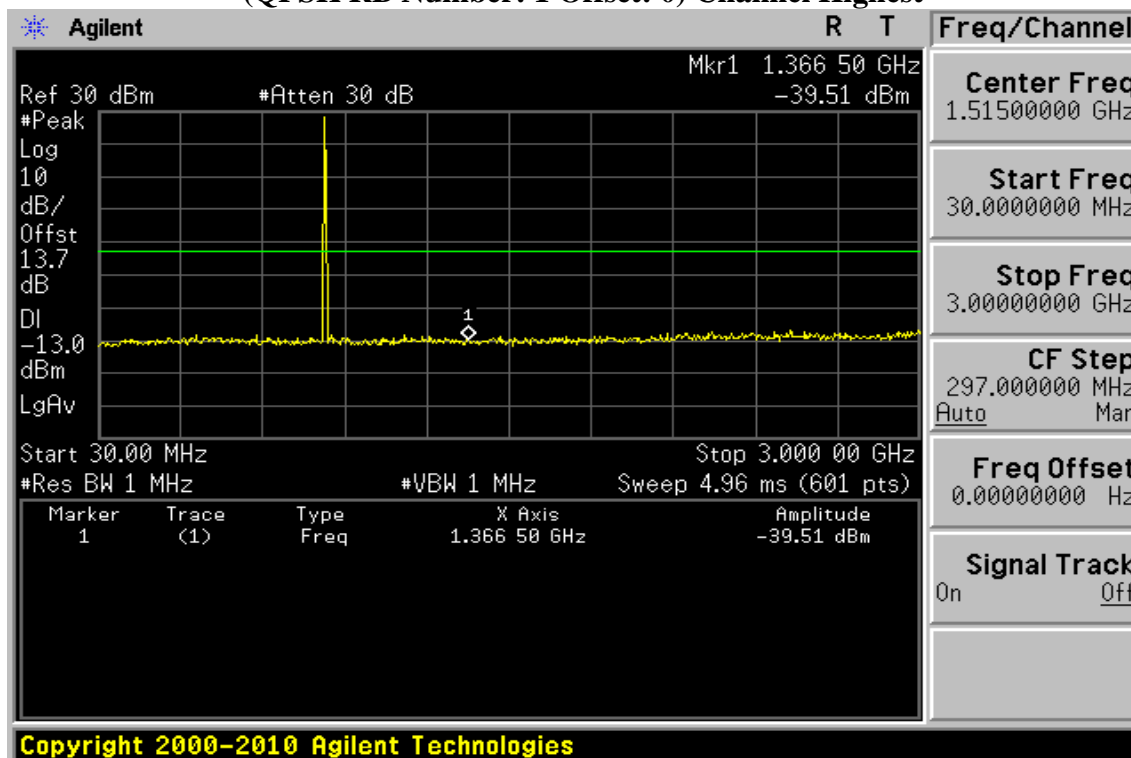


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**Figure 9-104: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 5****(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :824.7 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1649.40        | H               | ---            | -13.00       | ---                  |
| 2474.10        | H               | ---            | -13.00       | ---                  |
| 3298.80        | H               | ---            | -13.00       | ---                  |
| 4123.50        | H               | ---            | -13.00       | ---                  |
| 4948.20        | H               | ---            | -13.00       | ---                  |
| 5772.90        | H               | ---            | -13.00       | ---                  |
| 6597.60        | H               | ---            | -13.00       | ---                  |
| 7025.00        | S               | -35.93         | -13.00       | 22.93                |
| 7422.30        | H               | ---            | -13.00       | ---                  |
| 8247.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :836.5 MHz  
Operation Mode :TX Mid

Engineer :Nick

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1673.00        | H               | ---            | -13.00       | ---                  |
| 2509.50        | H               | ---            | -13.00       | ---                  |
| 3346.00        | H               | ---            | -13.00       | ---                  |
| 4182.50        | H               | ---            | -13.00       | ---                  |
| 5019.00        | H               | ---            | -13.00       | ---                  |
| 5855.50        | H               | ---            | -13.00       | ---                  |
| 6692.00        | H               | ---            | -13.00       | ---                  |
| 7528.50        | H               | ---            | -13.00       | ---                  |
| 7713.00        | S               | -36.2          | -13.00       | 23.20                |
| 8365.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :848.3 MHz Engineer :Nick  
Operation Mode :TX High

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1696.60        | H               | ---            | -13.00       | ---                  |
| 2544.90        | H               | ---            | -13.00       | ---                  |
| 3393.20        | H               | ---            | -13.00       | ---                  |
| 4241.50        | H               | ---            | -13.00       | ---                  |
| 5089.80        | H               | ---            | -13.00       | ---                  |
| 5938.10        | H               | ---            | -13.00       | ---                  |
| 6786.40        | H               | ---            | -13.00       | ---                  |
| 7634.70        | H               | ---            | -13.00       | ---                  |
| 7783.00        | S               | -35.34         | -13.00       | 22.34                |
| 8483.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“” : denotes Spurious Freque

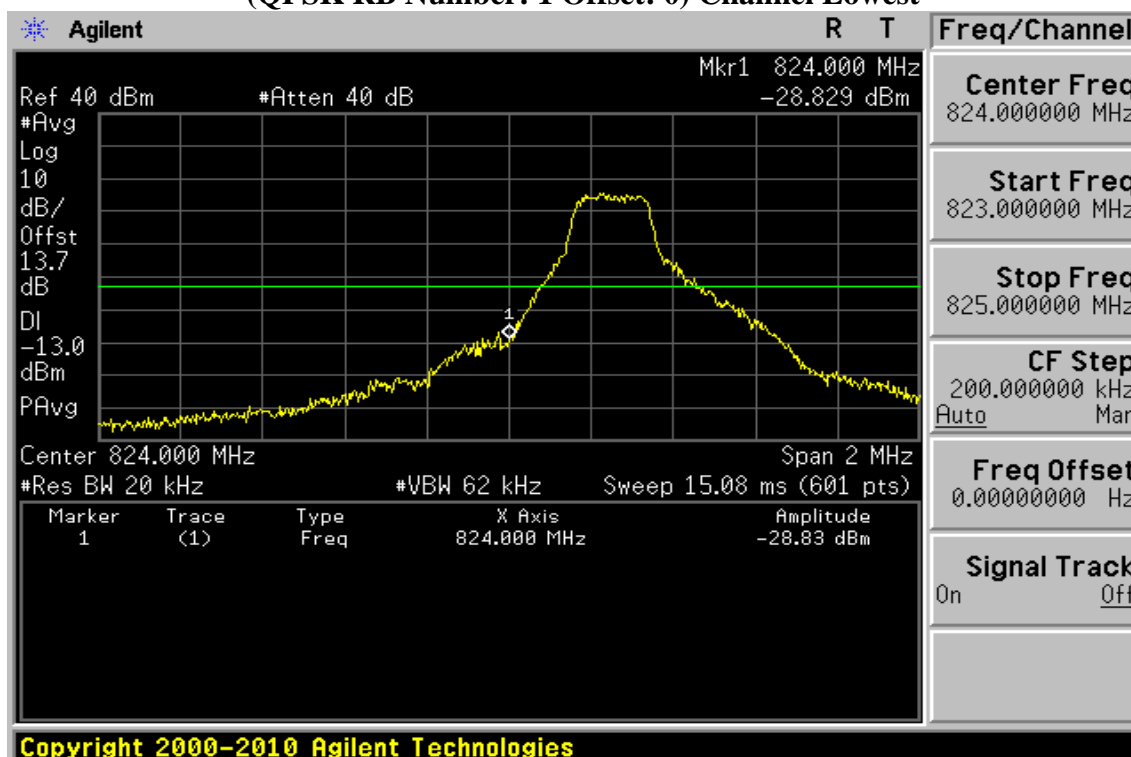
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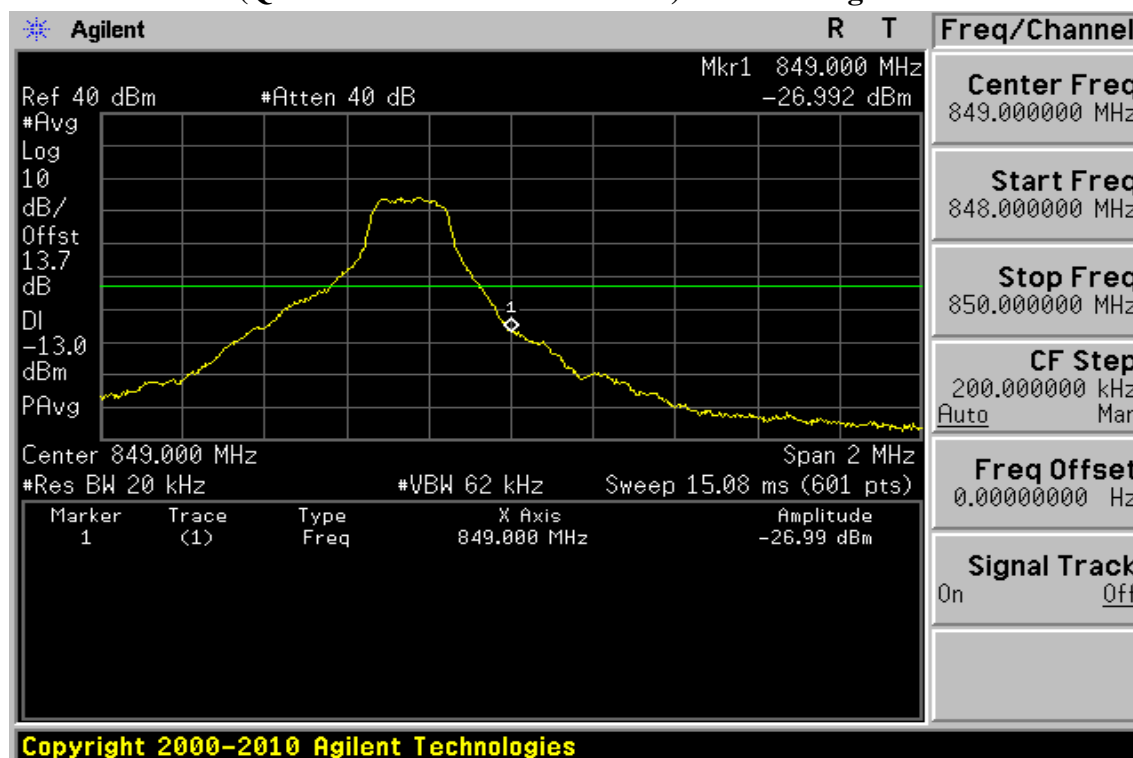
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**Figure 9-105: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-106: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 5) Channel Highest**



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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5****(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 5)**

Test Mode

1.4MHz BW LTE-Band 5 Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 824.000      | -28.83         | -13.00       | 15.83                |
| 849.000      | -26.99         | -13.00       | 13.99                |

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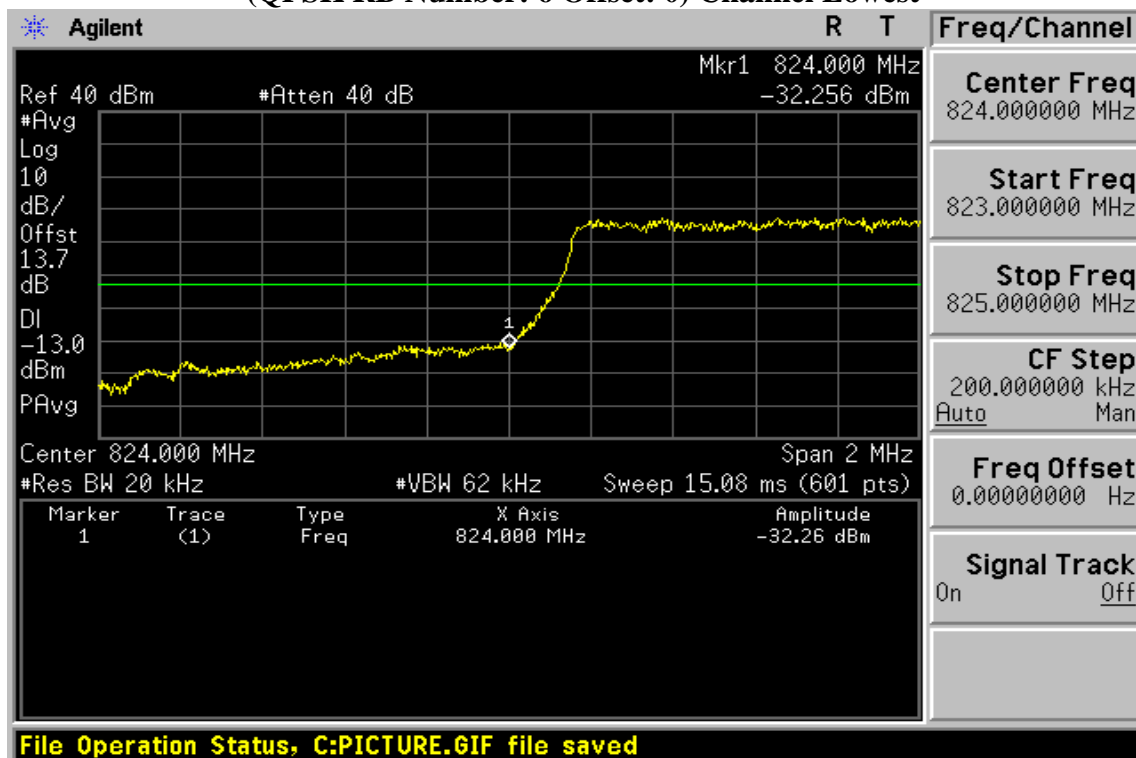
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f (886-2) 2298-0488

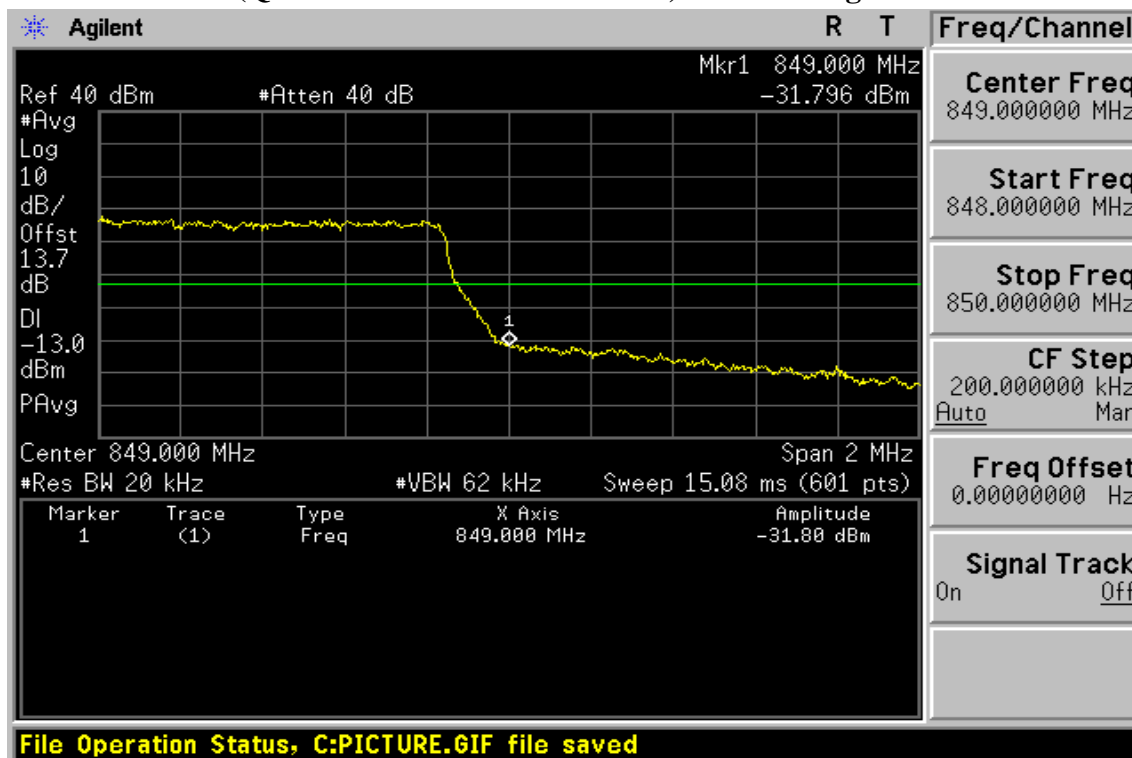
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**Figure 9-107: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 6 Offset: 0) Channel Lowest**



**Figure 9-108: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 6 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5****(QPSK RB Number: 6 Offset: 0)**

Test Mode 1.4MHz BW LTE-Band 5 Engineer :Nick

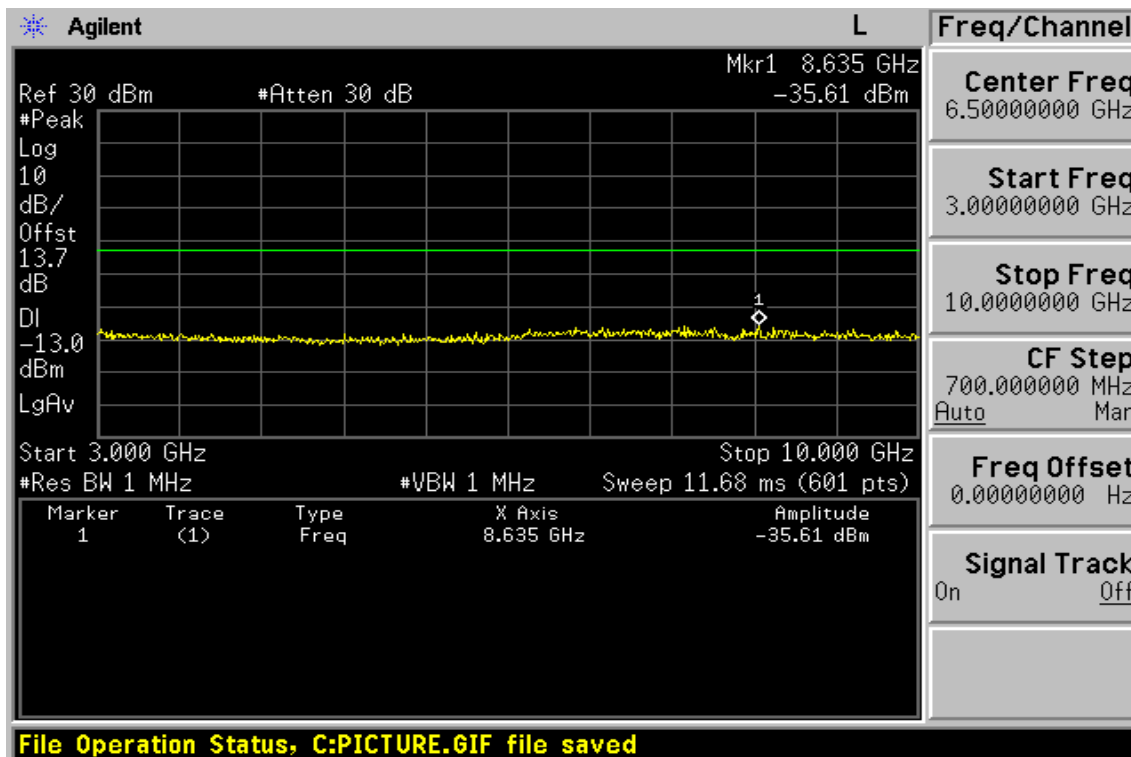
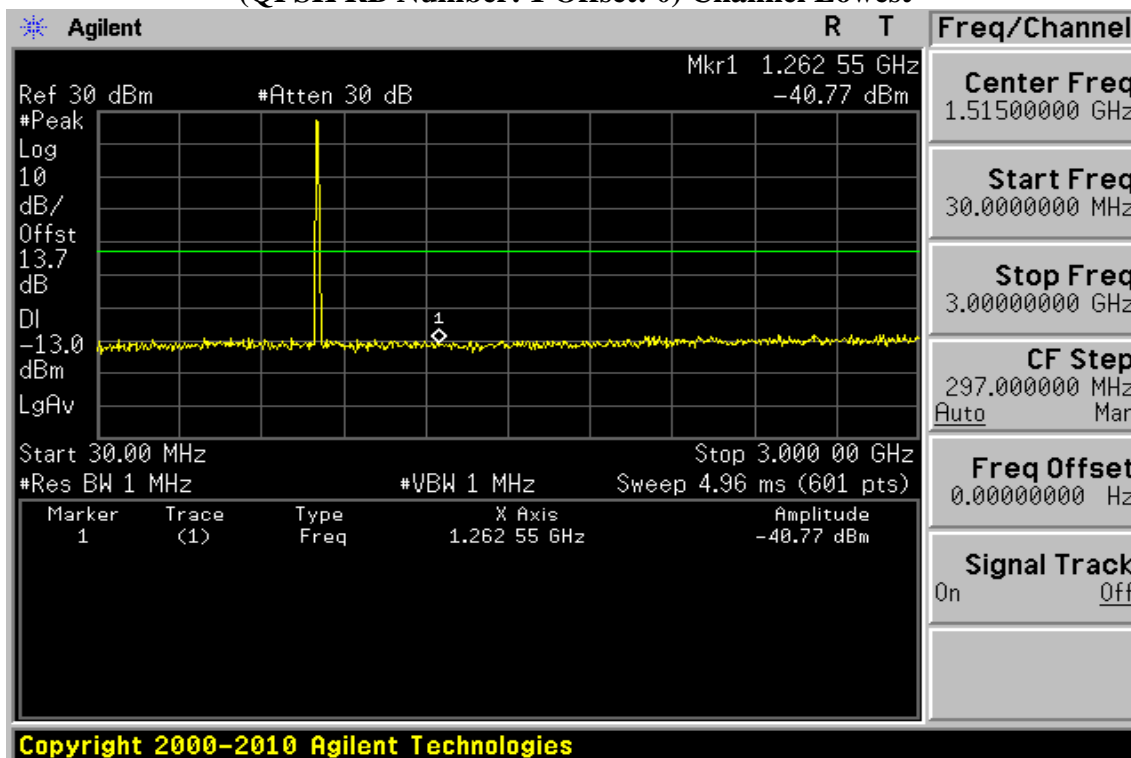
| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 824.000      | -32.26         | -13.00       | 19.26                |
| 849.000      | -31.8          | -13.00       | 18.80                |

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**Figure 9-109: Out of Band emission at antenna terminals–3MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

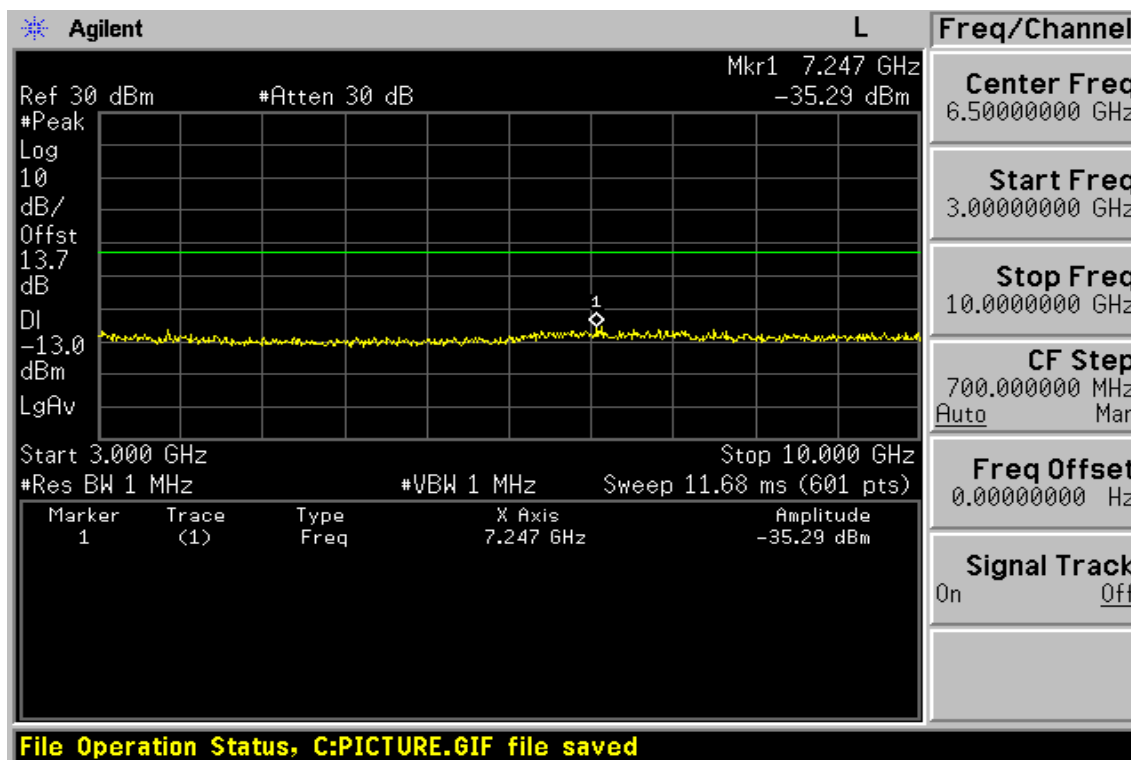
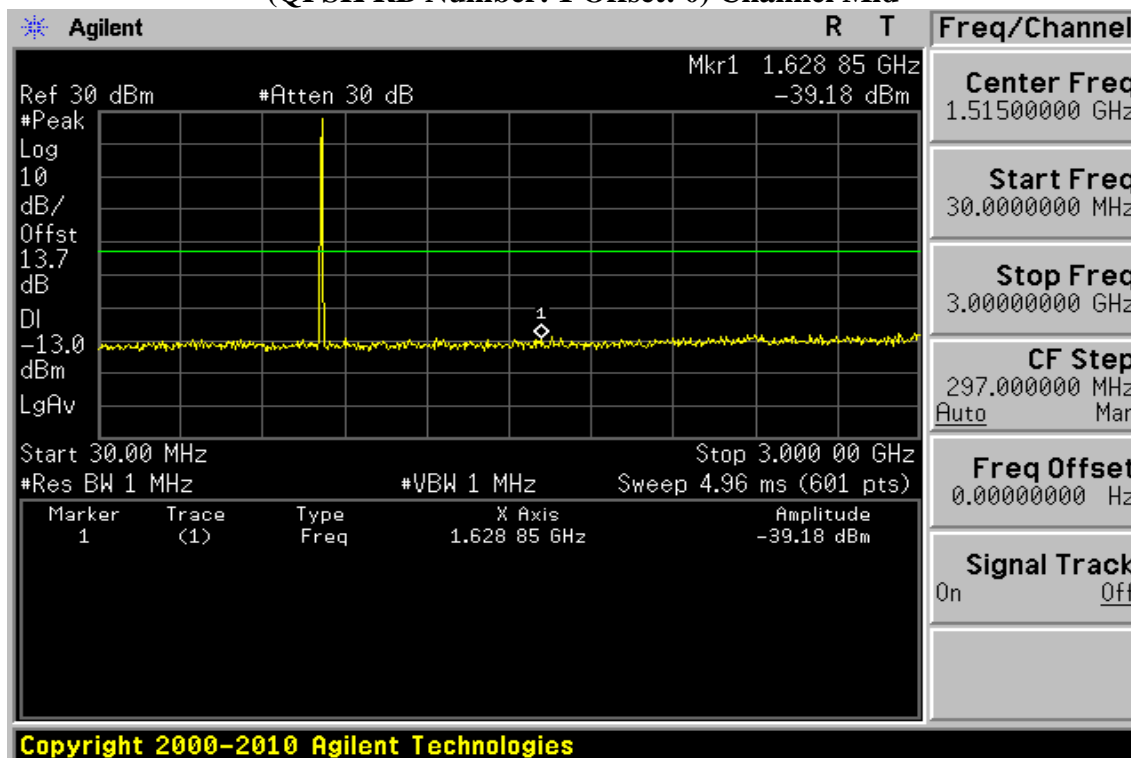


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**Figure 9-110: Out of Band emission at antenna terminals –3MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Mid**

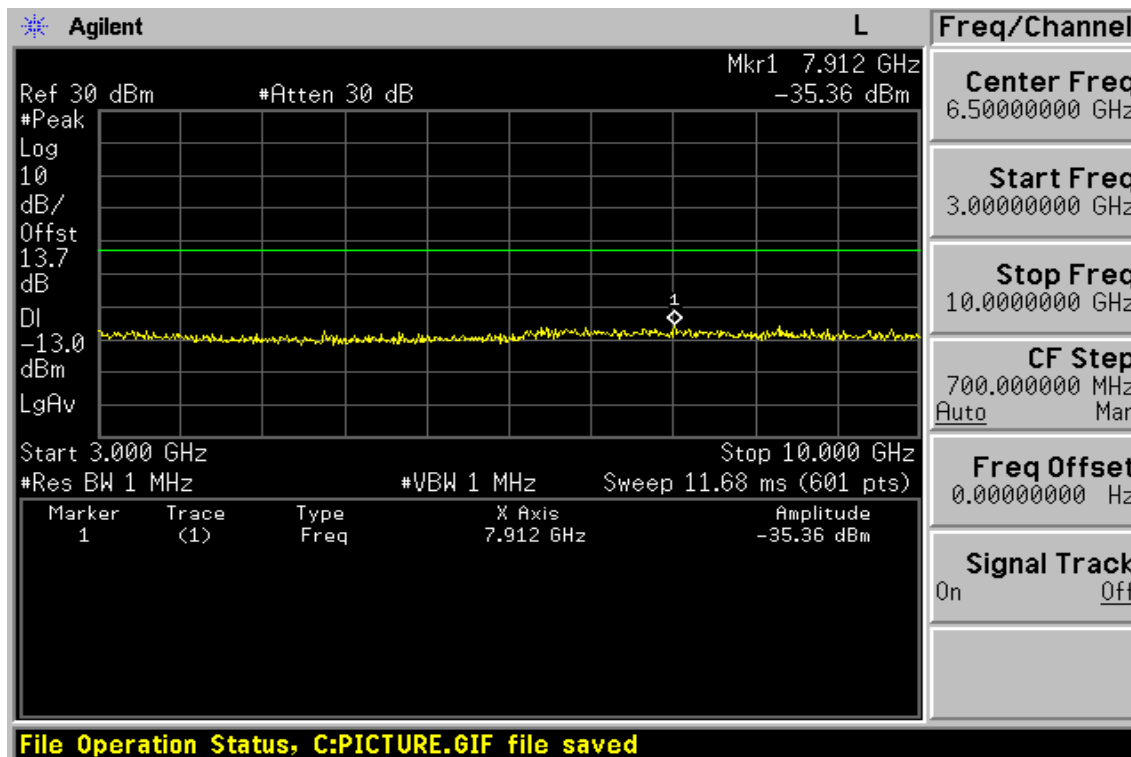
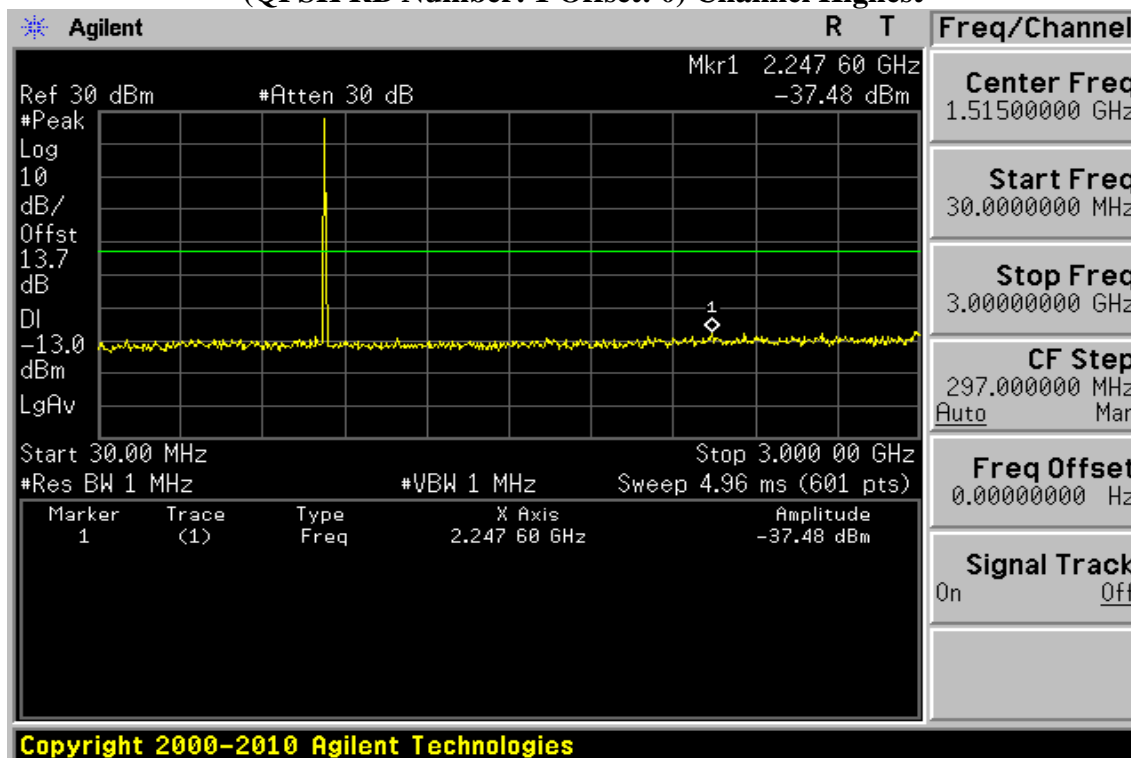


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**Figure 9-111: Out of Band emission at antenna terminals–3MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –3MHz BW LTE-Band 5****(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :825.5 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1651.00        | H               | ---            | -13.00       | ---                  |
| 2476.50        | H               | ---            | -13.00       | ---                  |
| 3302.00        | H               | ---            | -13.00       | ---                  |
| 4127.50        | H               | ---            | -13.00       | ---                  |
| 4953.00        | H               | ---            | -13.00       | ---                  |
| 5778.50        | H               | ---            | -13.00       | ---                  |
| 6604.00        | H               | ---            | -13.00       | ---                  |
| 7429.50        | H               | ---            | -13.00       | ---                  |
| 8255.00        | H               | ---            | -13.00       | ---                  |
| 8635.00        | S               | -35.61         | -13.00       | 22.61                |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :836.5 MHz  
Operation Mode :TX Mid

Engineer :Nick

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1673.00        | H               | ---            | -13.00       | ---                  |
| 2509.50        | H               | ---            | -13.00       | ---                  |
| 3346.00        | H               | ---            | -13.00       | ---                  |
| 4182.50        | H               | ---            | -13.00       | ---                  |
| 5019.00        | H               | ---            | -13.00       | ---                  |
| 5855.50        | H               | ---            | -13.00       | ---                  |
| 6692.00        | H               | ---            | -13.00       | ---                  |
| 7247.00        | S               | -35.29         | -13.00       | 22.29                |
| 7528.50        | H               | ---            | -13.00       | ---                  |
| 8365.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :825.3 MHz  
Operation Mode :TX High

Engineer :Nick

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1650.60        | H               | ---            | -13.00       | ---                  |
| 2475.90        | H               | ---            | -13.00       | ---                  |
| 3301.20        | H               | ---            | -13.00       | ---                  |
| 4126.50        | H               | ---            | -13.00       | ---                  |
| 4951.80        | H               | ---            | -13.00       | ---                  |
| 5777.10        | H               | ---            | -13.00       | ---                  |
| 6602.40        | H               | ---            | -13.00       | ---                  |
| 7427.70        | H               | ---            | -13.00       | ---                  |
| 7912.00        | S               | -35.36         | -13.00       | 22.36                |
| 8253.00        | H               | ---            | -13.00       | ---                  |

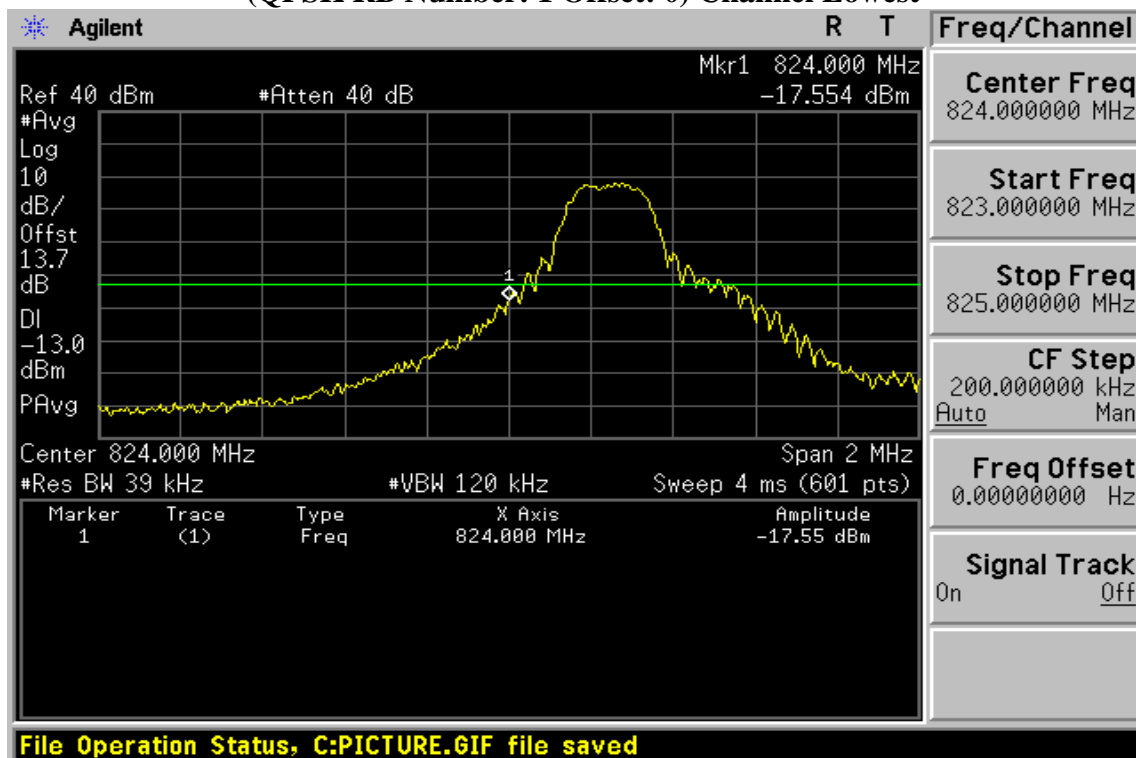
Note : "H" : denotes Harmonic Frequency. "S" : denotes Spurious Frequency.  
"": denotes Spurious Freque

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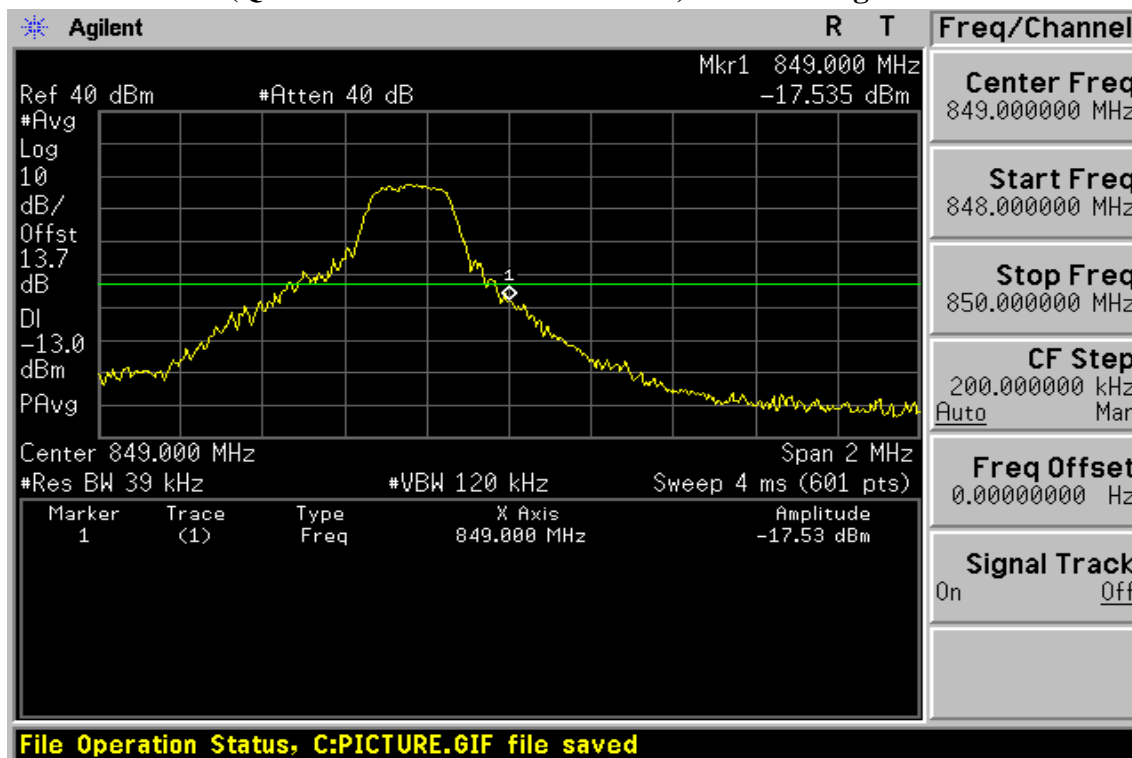
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**Figure 9-112: Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-113: Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 14) Channel Highest**



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**Band edge emission at antenna terminals –3MHz BW LTE-Band 5****(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 14)**

Test Mode

3MHz BW LTE-Band 5

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 824.000      | -17.55         | -13.00       | 4.55                 |
| 849.000      | -17.53         | -13.00       | 4.53                 |

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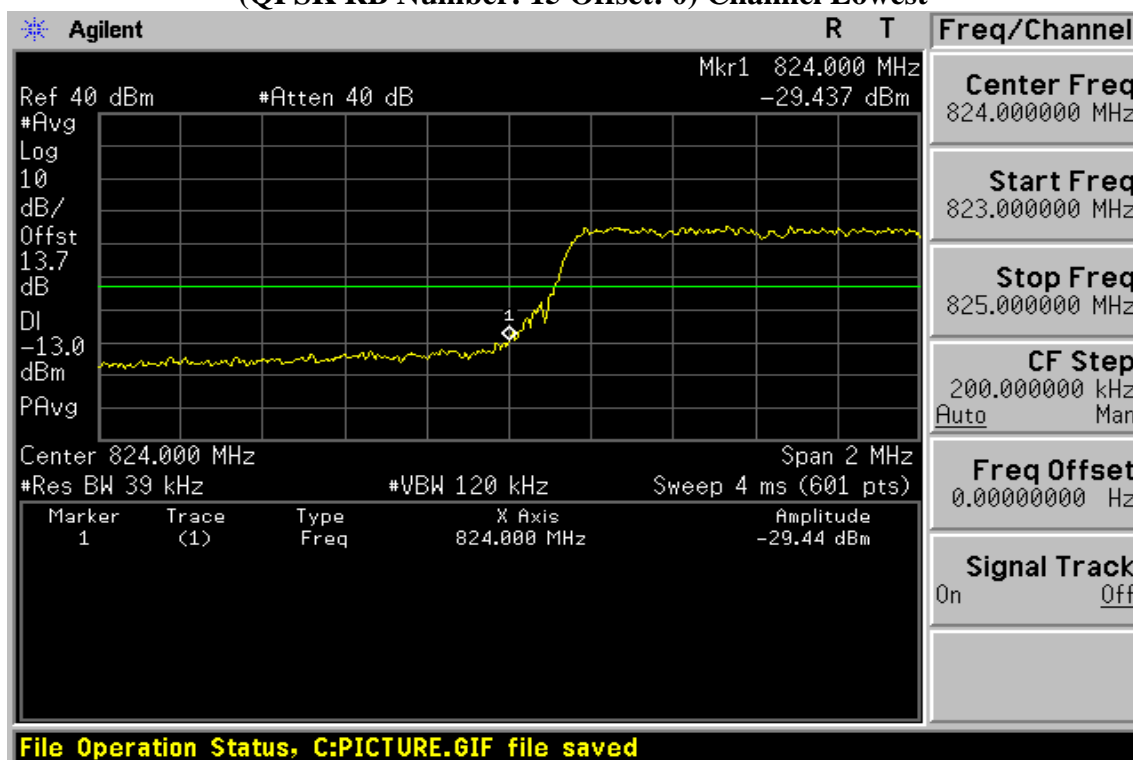
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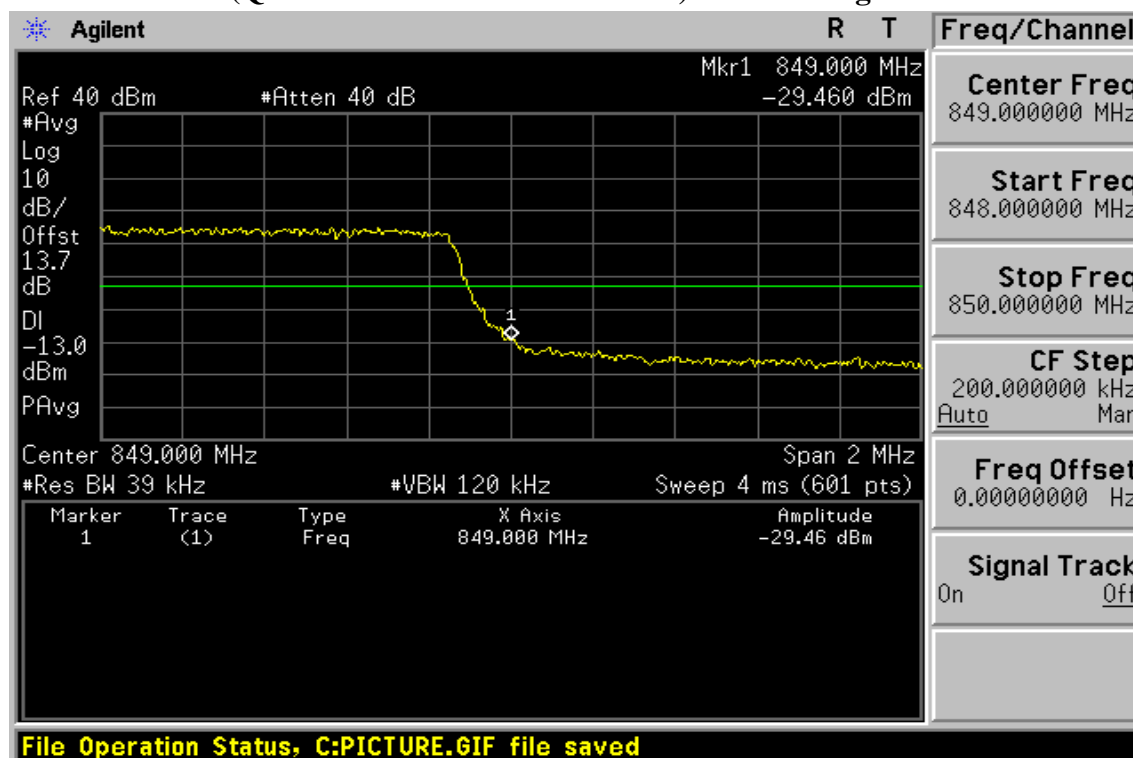
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**Figure 9-114: Band edge emission at antenna terminals –3MHz BW LTE-Band 5  
(QPSK RB Number: 15 Offset: 0) Channel Lowest**



**Figure 9-115: Band edge emission at antenna terminals –3MHz BW LTE-Band 5  
(QPSK RB Number: 15 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –3MHz BW LTE-Band 5****(QPSK RB Number: 15 Offset: 0)**

Test Mode 3MHz BW LTE-Band 5 Engineer :Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 824.000      | -29.44         | -13.00       | 16.44                |
| 849.000      | -29.46         | -13.00       | 16.46                |

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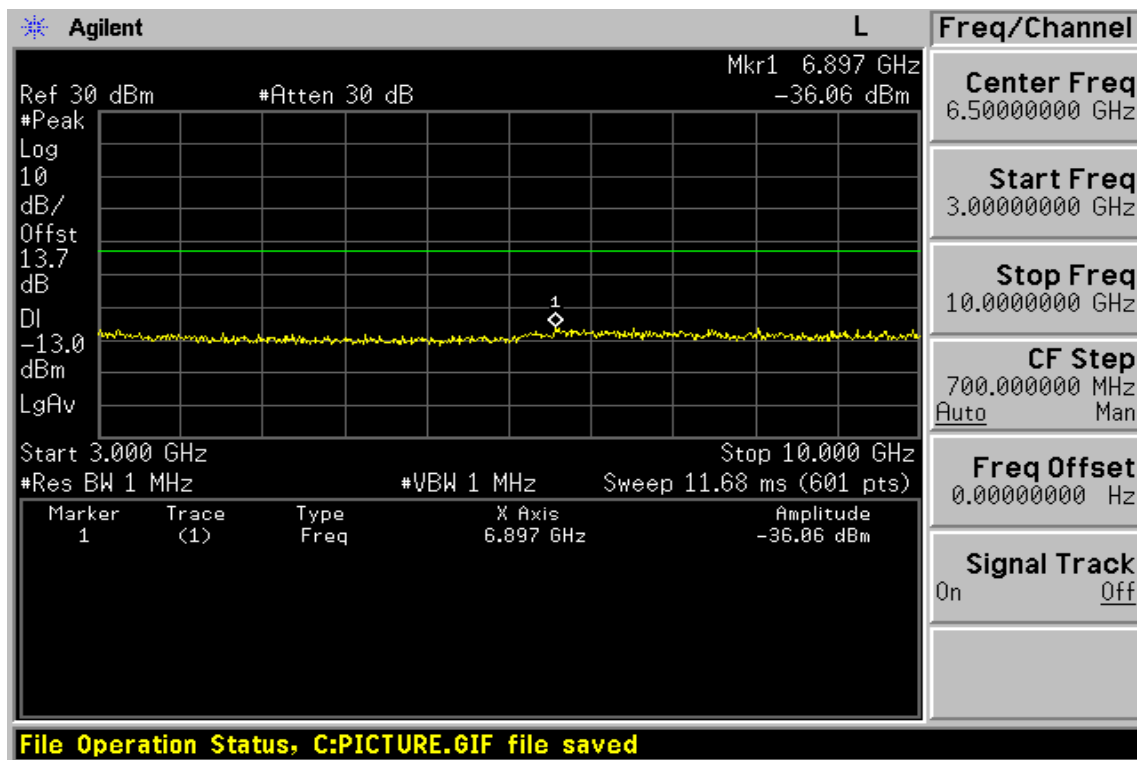
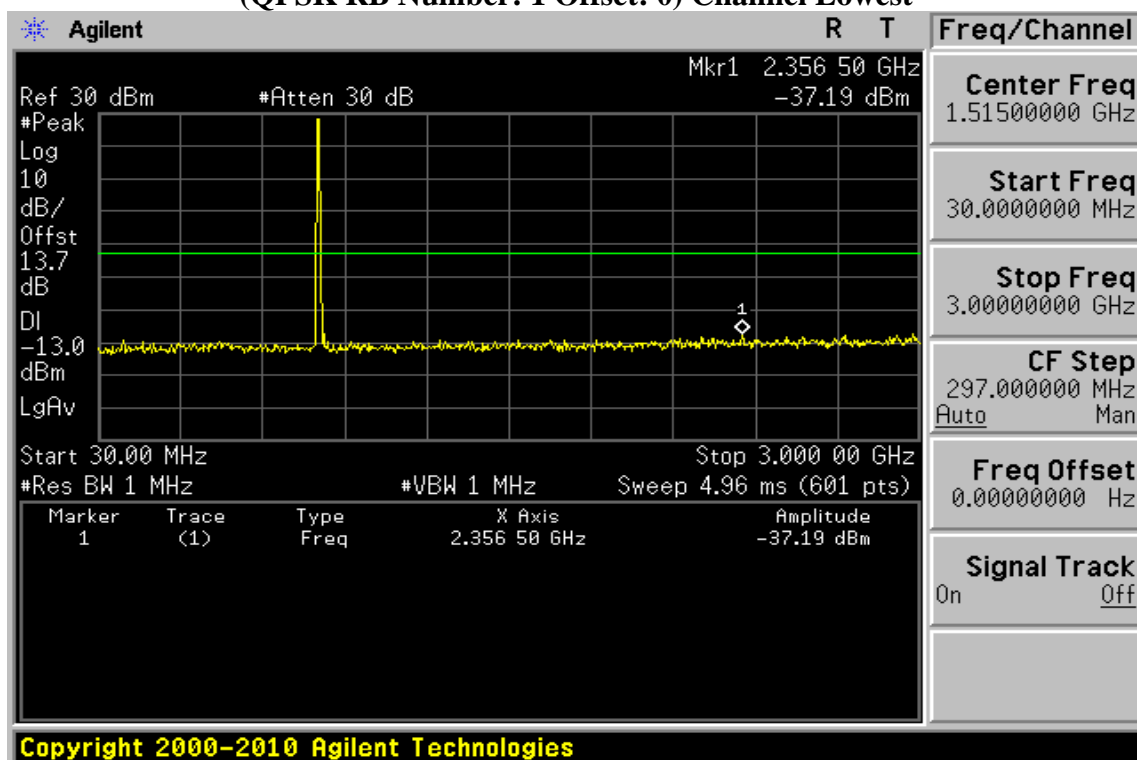
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**Figure 9-116: Out of Band emission at antenna terminals–5MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**

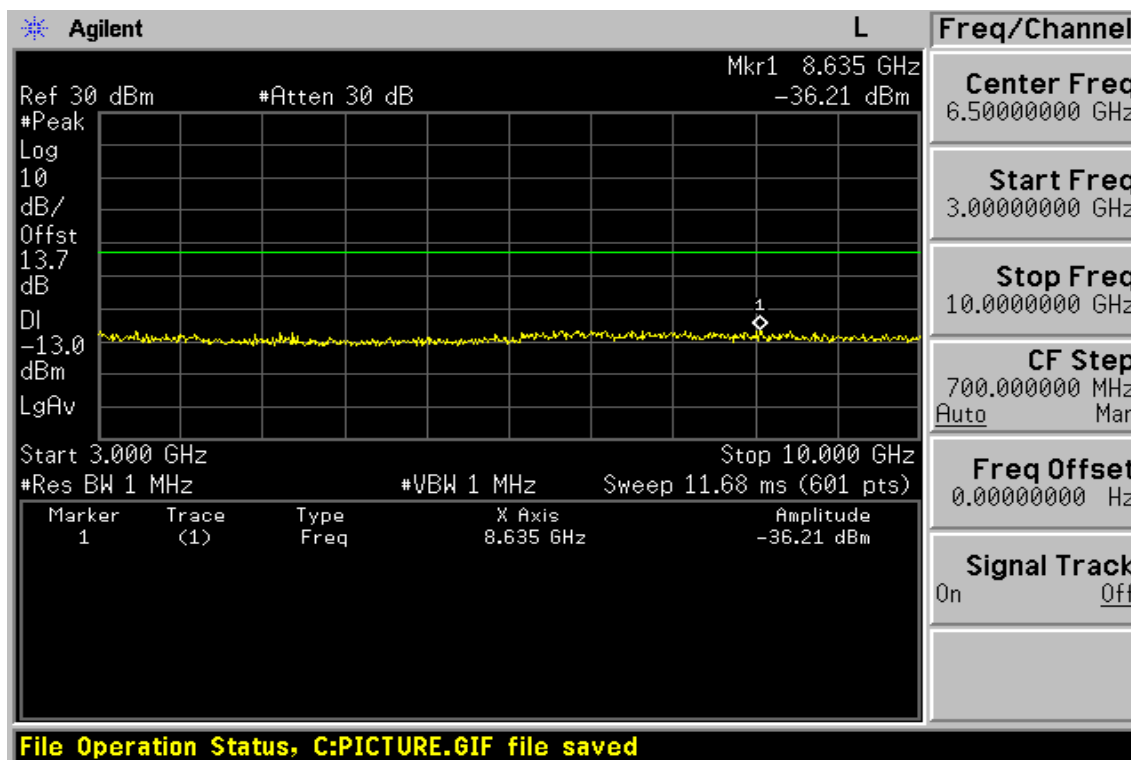
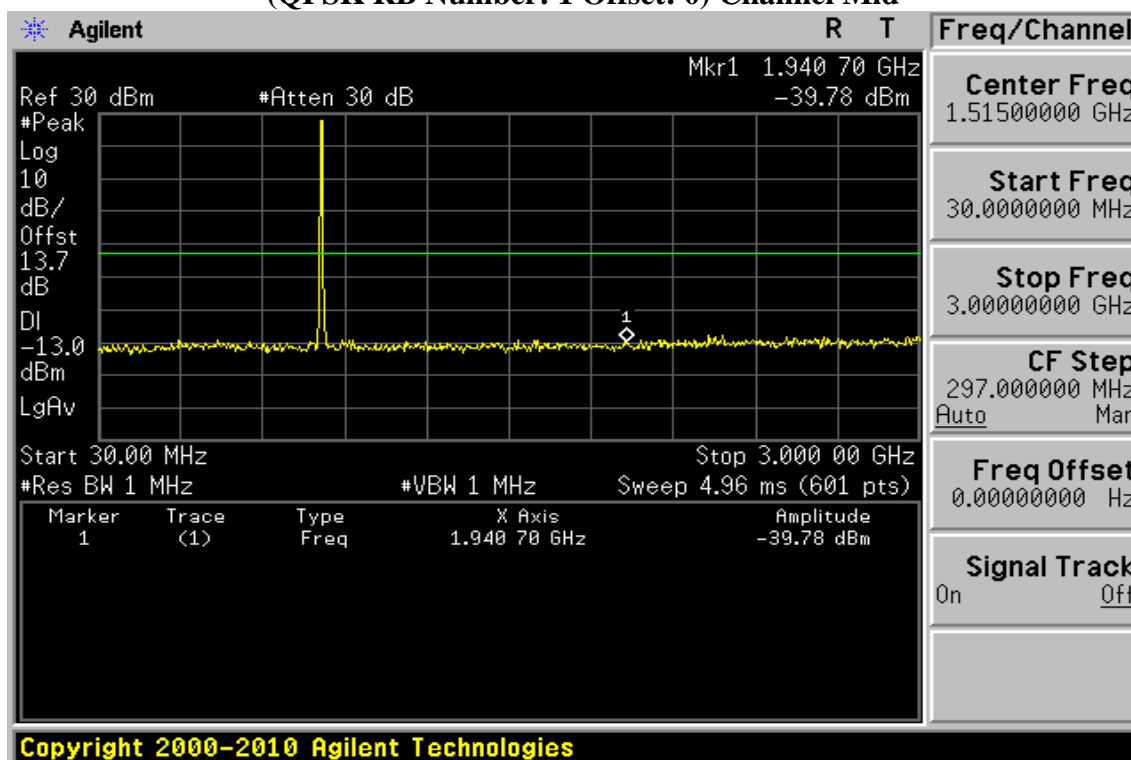


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**Figure 9-117: Out of Band emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid**



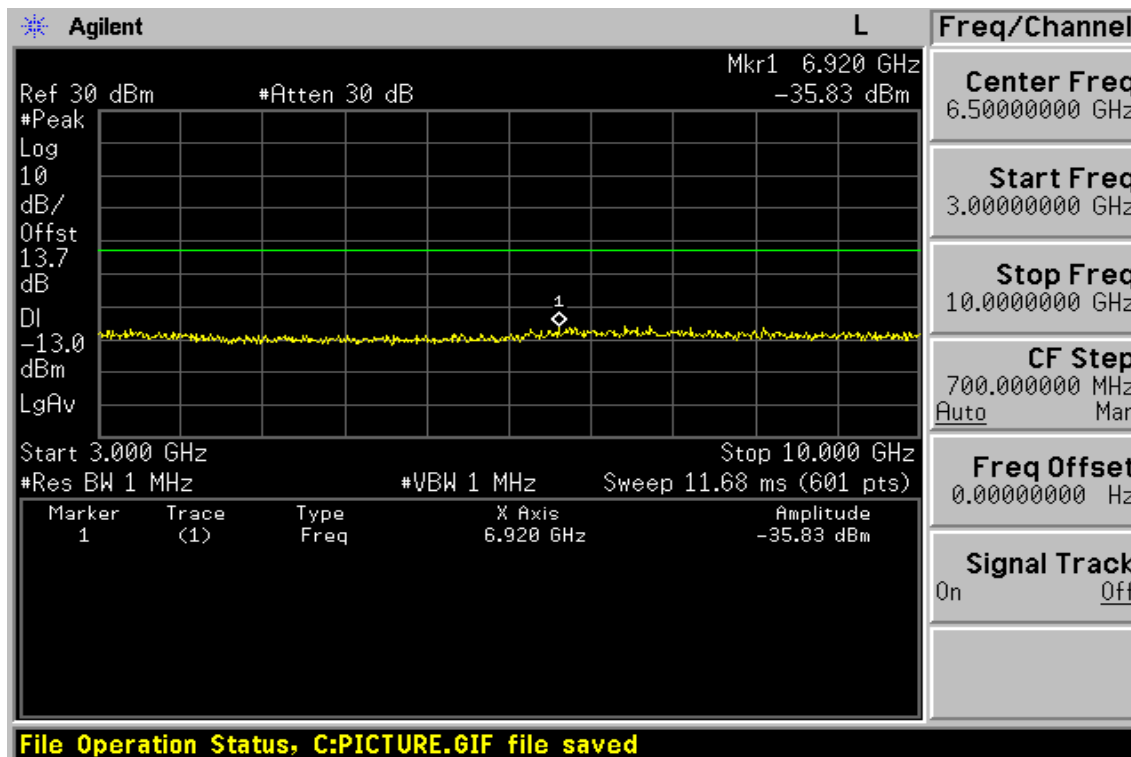
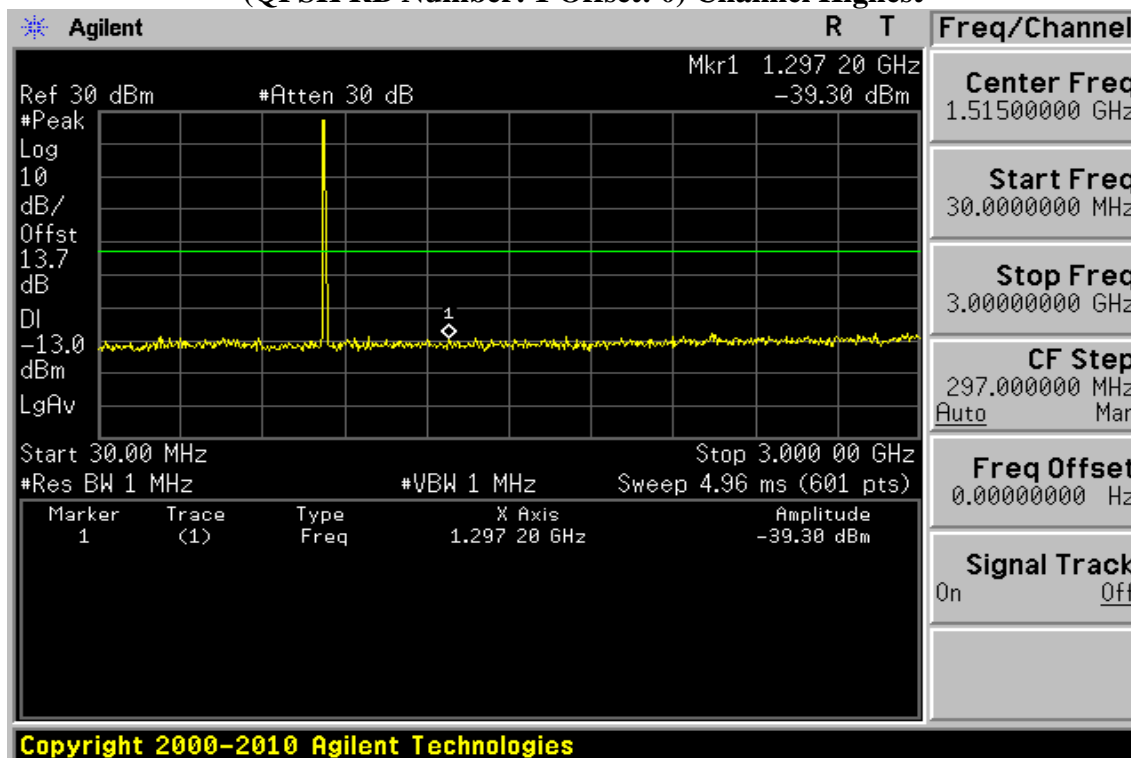
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**Figure 9-118: Out of Band emission at antenna terminals–5MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 5****(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :826.5 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1653.00        | H               | ---            | -13.00       | ---                  |
| 2479.50        | H               | ---            | -13.00       | ---                  |
| 3306.00        | H               | ---            | -13.00       | ---                  |
| 4132.50        | H               | ---            | -13.00       | ---                  |
| 4959.00        | H               | ---            | -13.00       | ---                  |
| 5785.50        | H               | ---            | -13.00       | ---                  |
| 6612.00        | H               | ---            | -13.00       | ---                  |
| 6897.00        | S               | -36.06         | -13.00       | 23.06                |
| 7438.50        | H               | ---            | -13.00       | ---                  |
| 8265.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :836.5 MHz  
Operation Mode :TX Mid

Engineer :Nick

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1673.00        | H               | ---            | -13.00       | ---                  |
| 2509.50        | H               | ---            | -13.00       | ---                  |
| 3346.00        | H               | ---            | -13.00       | ---                  |
| 4182.50        | H               | ---            | -13.00       | ---                  |
| 5019.00        | H               | ---            | -13.00       | ---                  |
| 5855.50        | H               | ---            | -13.00       | ---                  |
| 6692.00        | H               | ---            | -13.00       | ---                  |
| 7528.50        | H               | ---            | -13.00       | ---                  |
| 8365.00        | H               | ---            | -13.00       | ---                  |
| 8635.00        | S               | -36.21         | -13.00       | 23.21                |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :846.5 MHz Engineer :Nick  
Operation Mode :TX High

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1693.00        | H               | ---            | -13.00       | ---                  |
| 2539.50        | H               | ---            | -13.00       | ---                  |
| 3386.00        | H               | ---            | -13.00       | ---                  |
| 4232.50        | H               | ---            | -13.00       | ---                  |
| 5079.00        | H               | ---            | -13.00       | ---                  |
| 5925.50        | H               | ---            | -13.00       | ---                  |
| 6772.00        | H               | ---            | -13.00       | ---                  |
| 6920.00        | S               | -35.83         | -13.00       | 22.83                |
| 7618.50        | H               | ---            | -13.00       | ---                  |
| 8465.00        | H               | ---            | -13.00       | ---                  |

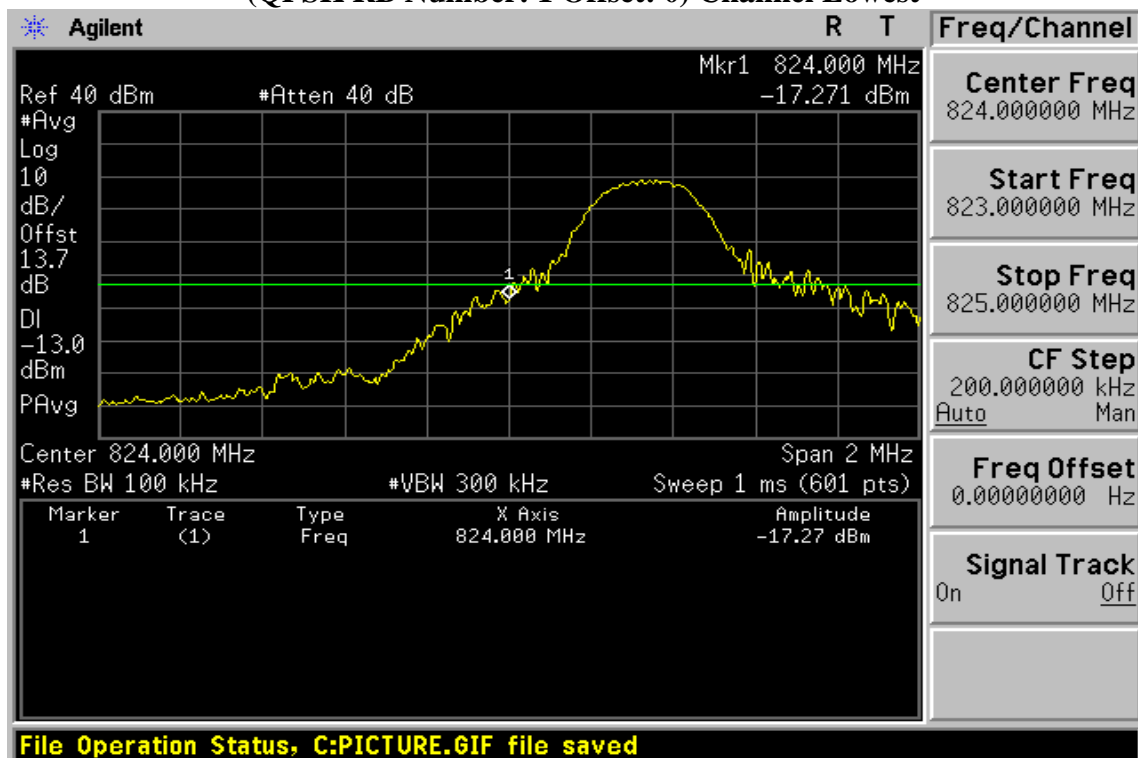
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“ ” : denotes Spurious Freque

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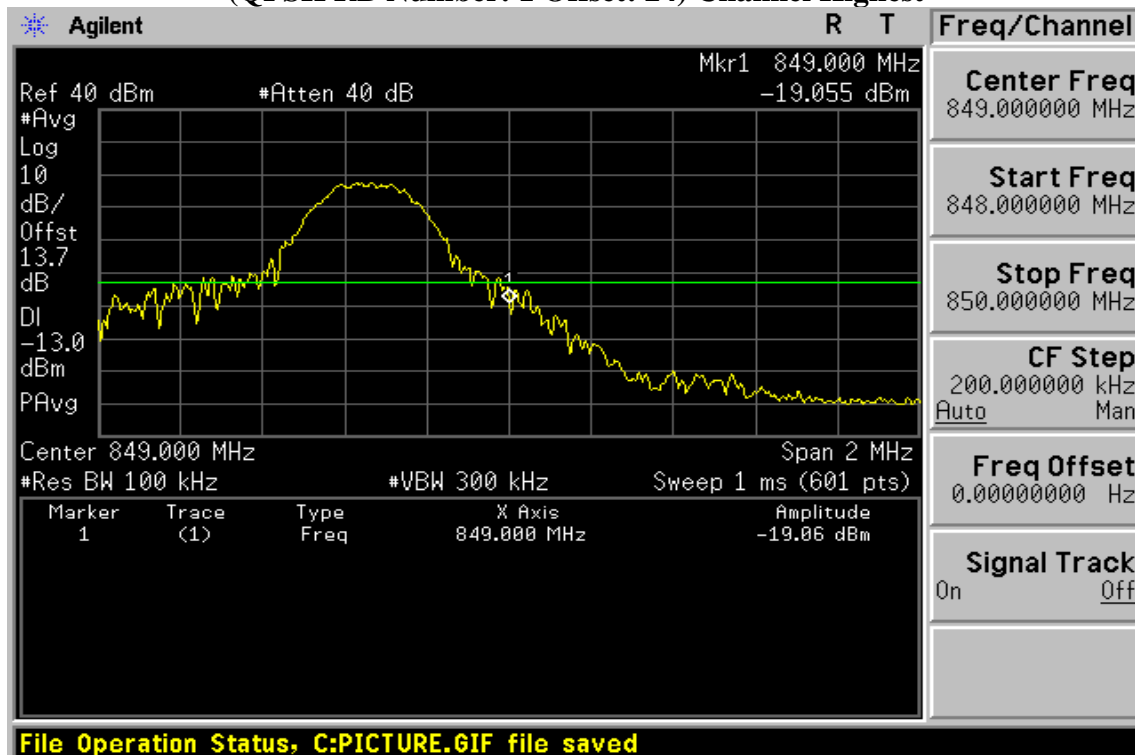
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**Figure 9-119: Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-120: Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 24) Channel Highest**



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**Band edge emission at antenna terminals –5MHz BW LTE-Band 5****(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 24)**

Test Mode

5MHz BW LTE-Band 5

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 824.000      | -17.27         | -13.00       | 4.27                 |
| 849.000      | -19.06         | -13.00       | 6.06                 |

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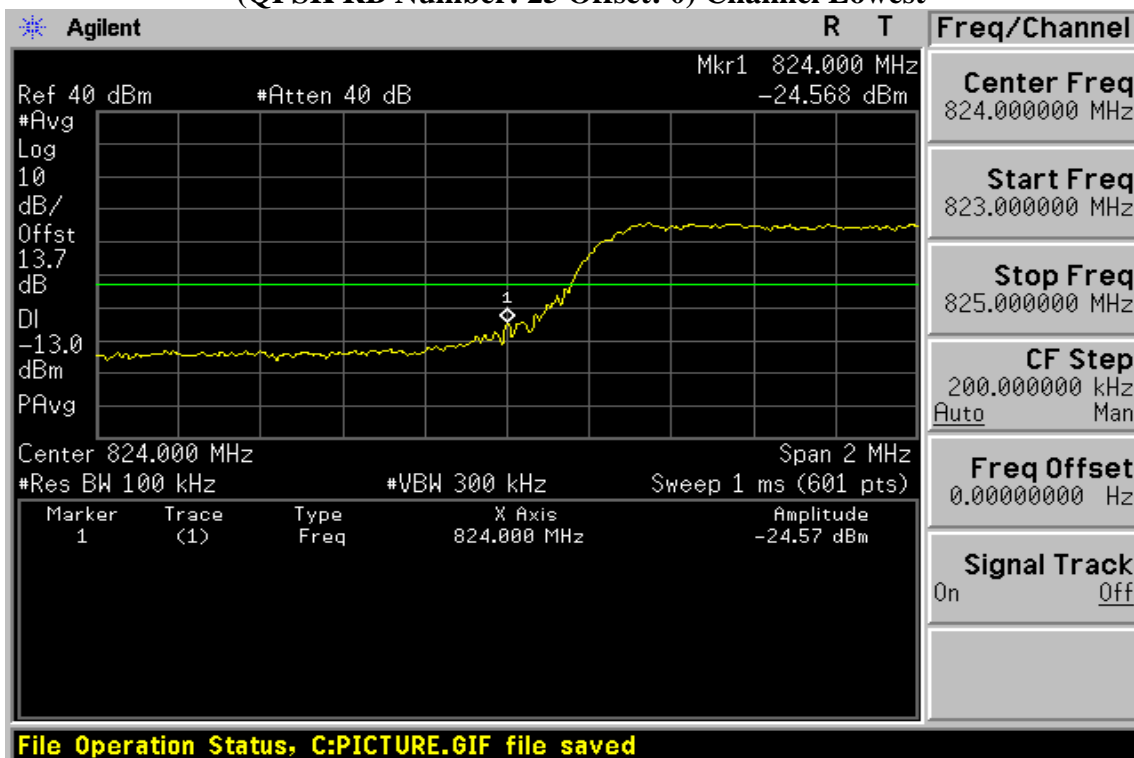
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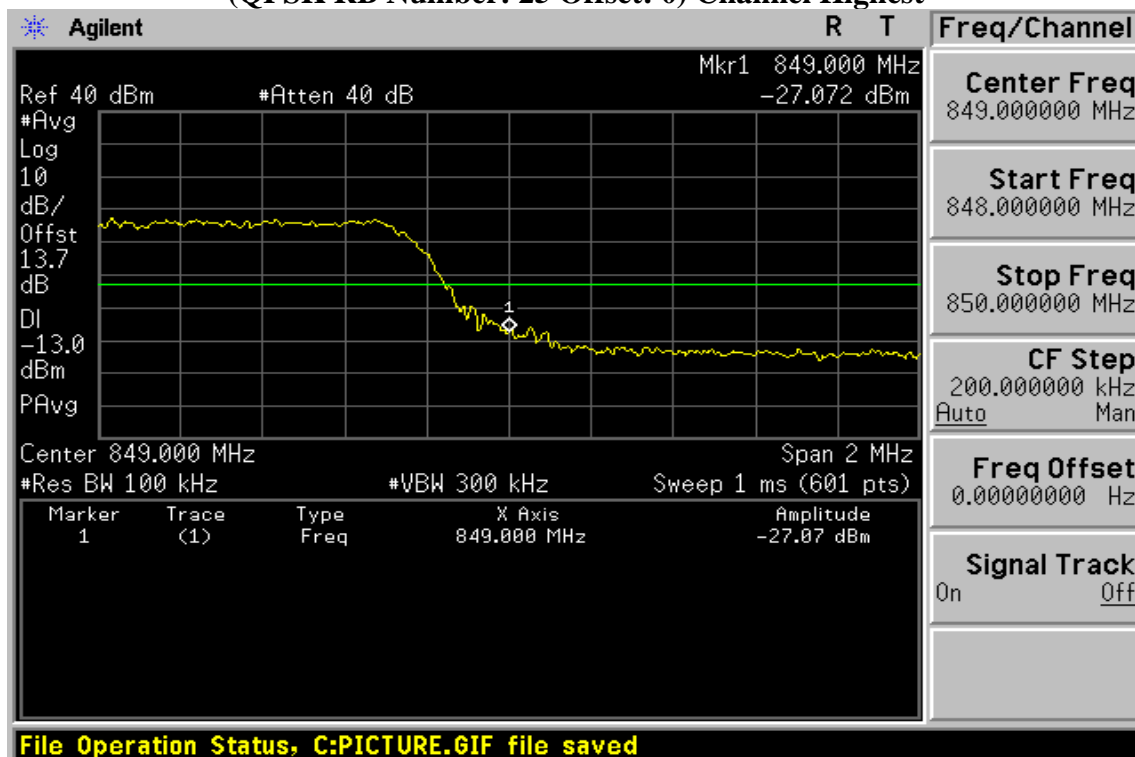
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**Figure 9-121: Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Figure 9-122: Band edge emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 25 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –5MHz BW LTE-Band 5****(QPSK RB Number: 25 Offset: 0)**

Test Mode 5MHz BW LTE-Band 5 Engineer :Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 824.000      | -24.57         | -13.00       | 11.57                |
| 849.000      | -27.07         | -13.00       | 14.07                |

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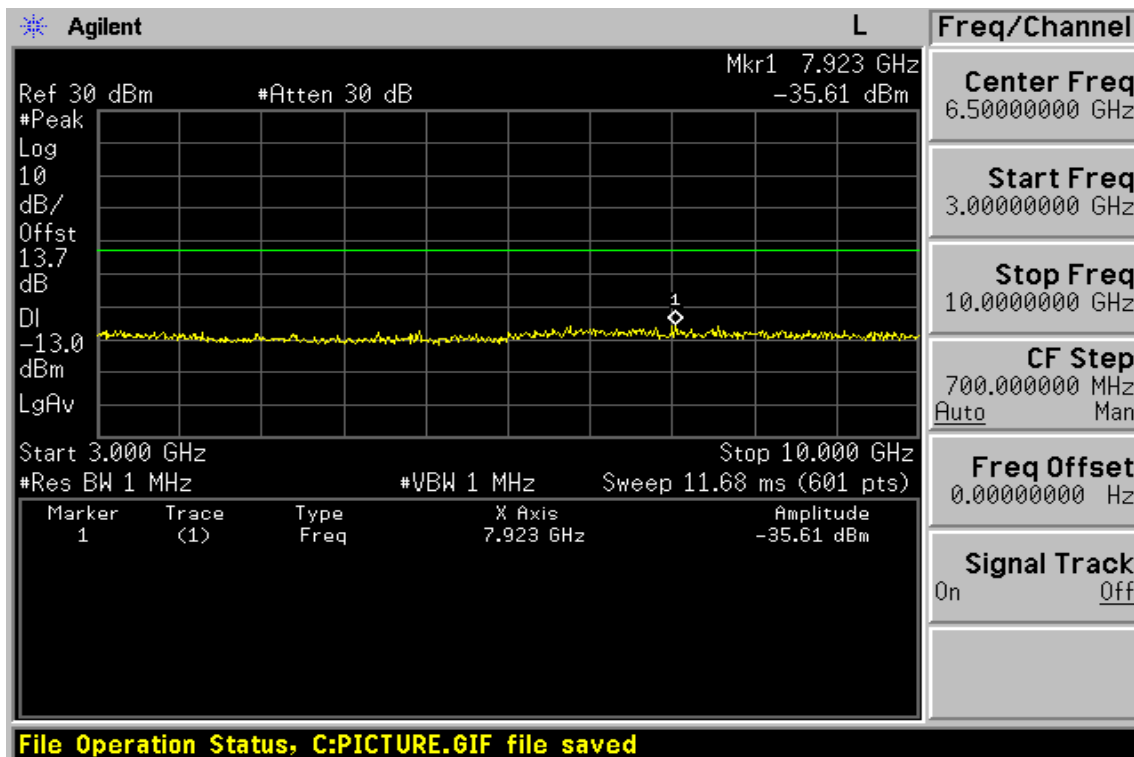
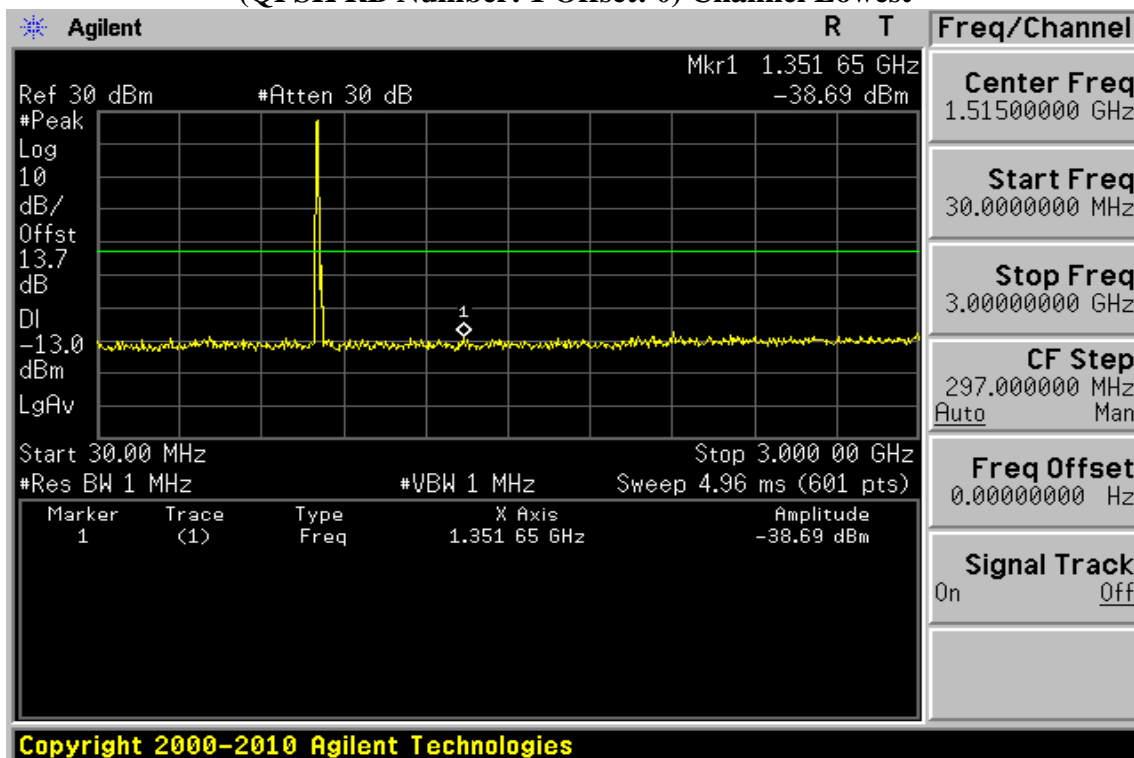
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**Figure 9-123: Out of Band emission at antenna terminals–10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest**

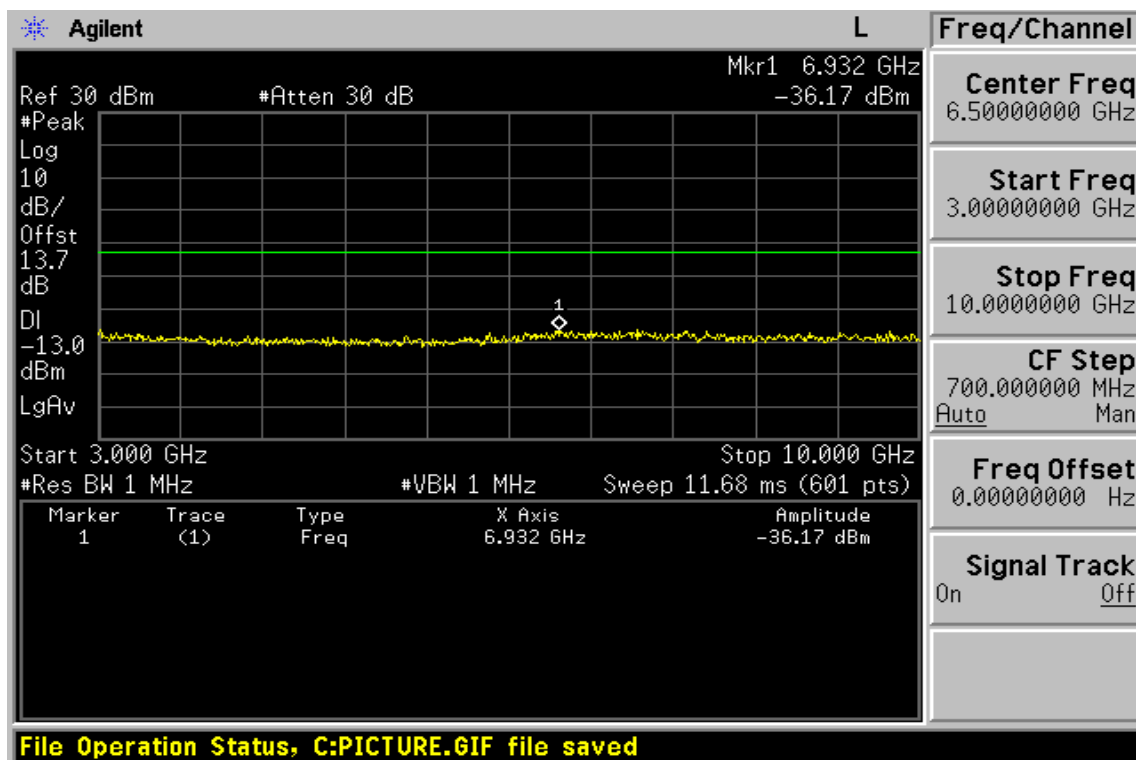
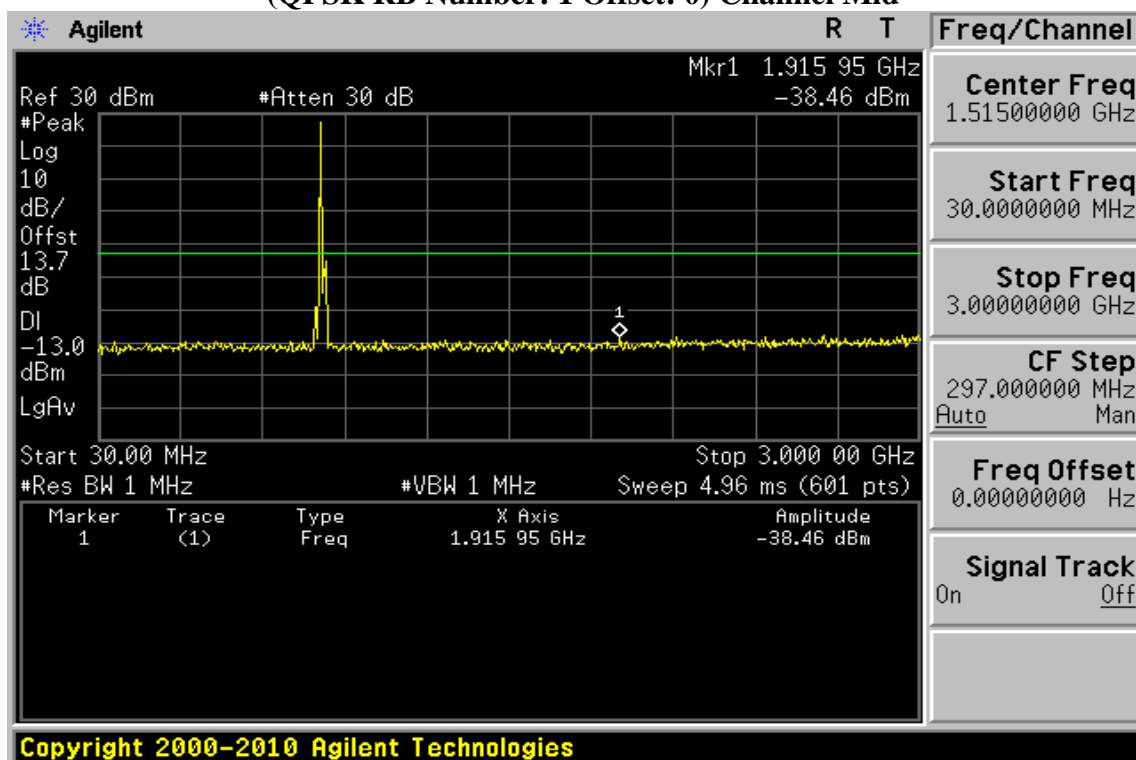


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**Figure 9-124: Out of Band emission at antenna terminals –10MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Mid**

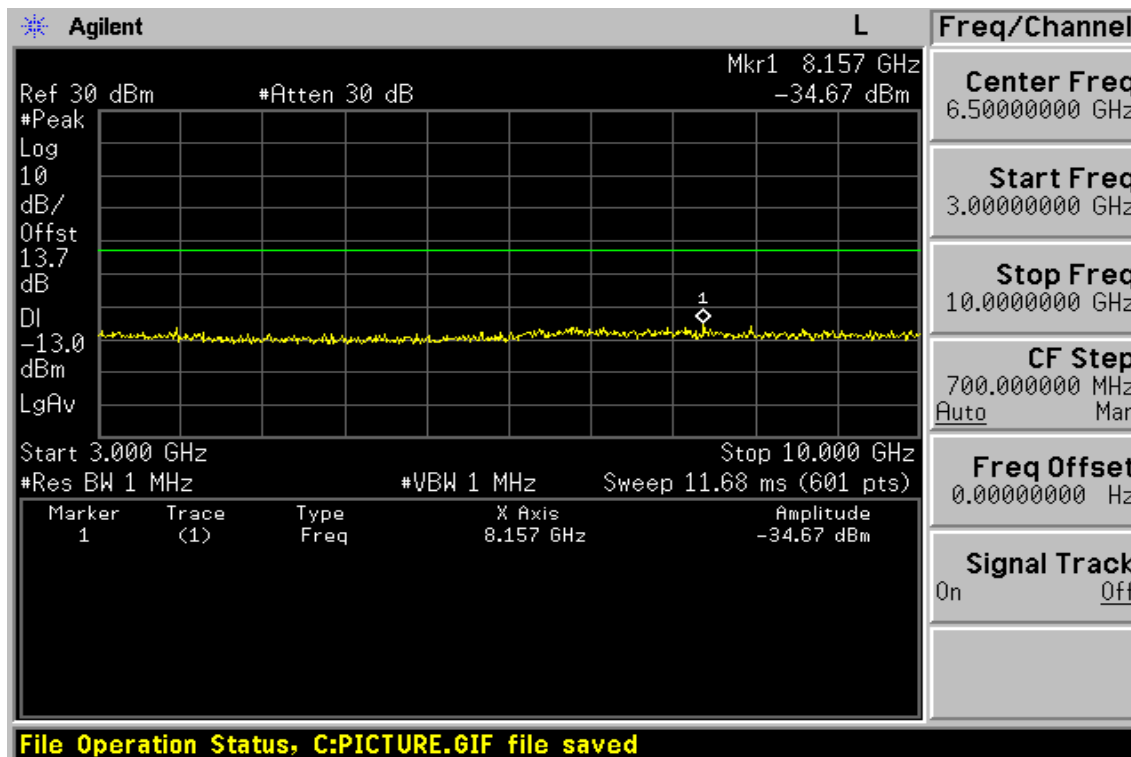
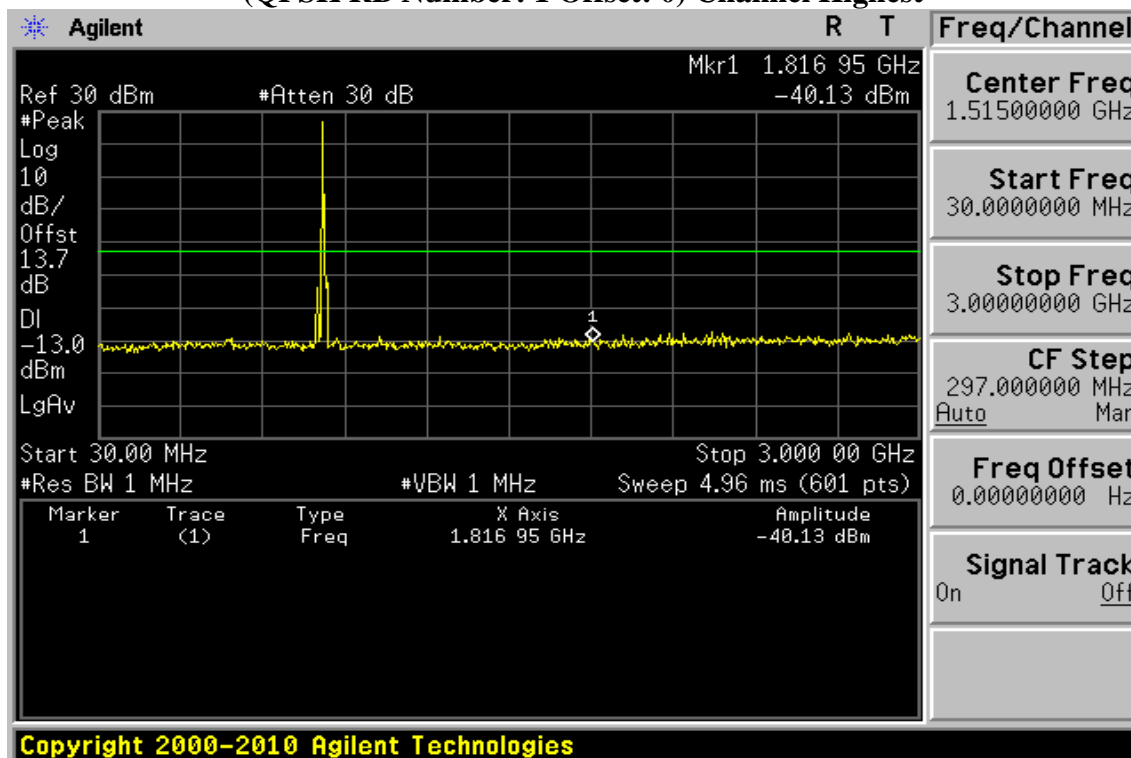


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**Figure 9-125: Out of Band emission at antenna terminals–10MHz BW LTE-Band 5  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Out of Band emission at antenna terminals –10MHz BW LTE-Band 5****(QPSK RB Number: 1 Offset: 0)**

Fundamental Frequency :829.0 MHz

Engineer

:Nick

Operation Mode :TX Low

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1658.00        | H               | ---            | -13.00       | ---                  |
| 2487.00        | H               | ---            | -13.00       | ---                  |
| 3316.00        | H               | ---            | -13.00       | ---                  |
| 4145.00        | H               | ---            | -13.00       | ---                  |
| 4974.00        | H               | ---            | -13.00       | ---                  |
| 5803.00        | H               | ---            | -13.00       | ---                  |
| 6632.00        | H               | ---            | -13.00       | ---                  |
| 7461.00        | H               | ---            | -13.00       | ---                  |
| 7923.00        | S               | -35.61         | -13.00       | 22.61                |
| 8290.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :836.5 MHz  
Operation Mode :TX Mid

Engineer :Nick

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1673.00        | H               | ---            | -13.00       | ---                  |
| 2509.50        | H               | ---            | -13.00       | ---                  |
| 3346.00        | H               | ---            | -13.00       | ---                  |
| 4182.50        | H               | ---            | -13.00       | ---                  |
| 5019.00        | H               | ---            | -13.00       | ---                  |
| 5855.50        | H               | ---            | -13.00       | ---                  |
| 6692.00        | H               | ---            | -13.00       | ---                  |
| 6932.00        | S               | -36.17         | -13.00       | 23.17                |
| 7528.50        | H               | ---            | -13.00       | ---                  |
| 8365.00        | H               | ---            | -13.00       | ---                  |

Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Fundamental Frequency :844.0 MHz Engineer :Nick  
Operation Mode :TX High

| Freq.<br>(MHz) | Note<br>F/H/E/S | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|----------------|-----------------|----------------|--------------|----------------------|
| <30            | S               | ---            | -13.00       | ---                  |
| 30-1000        | S               | ---            | -13.00       | ---                  |
| 1688.00        | H               | ---            | -13.00       | ---                  |
| 2532.00        | H               | ---            | -13.00       | ---                  |
| 3376.00        | H               | ---            | -13.00       | ---                  |
| 4220.00        | H               | ---            | -13.00       | ---                  |
| 5064.00        | H               | ---            | -13.00       | ---                  |
| 5908.00        | H               | ---            | -13.00       | ---                  |
| 6752.00        | H               | ---            | -13.00       | ---                  |
| 7596.00        | H               | ---            | -13.00       | ---                  |
| 8157.00        | S               | -34.67         | -13.00       | 21.67                |
| 8440.00        | H               | ---            | -13.00       | ---                  |

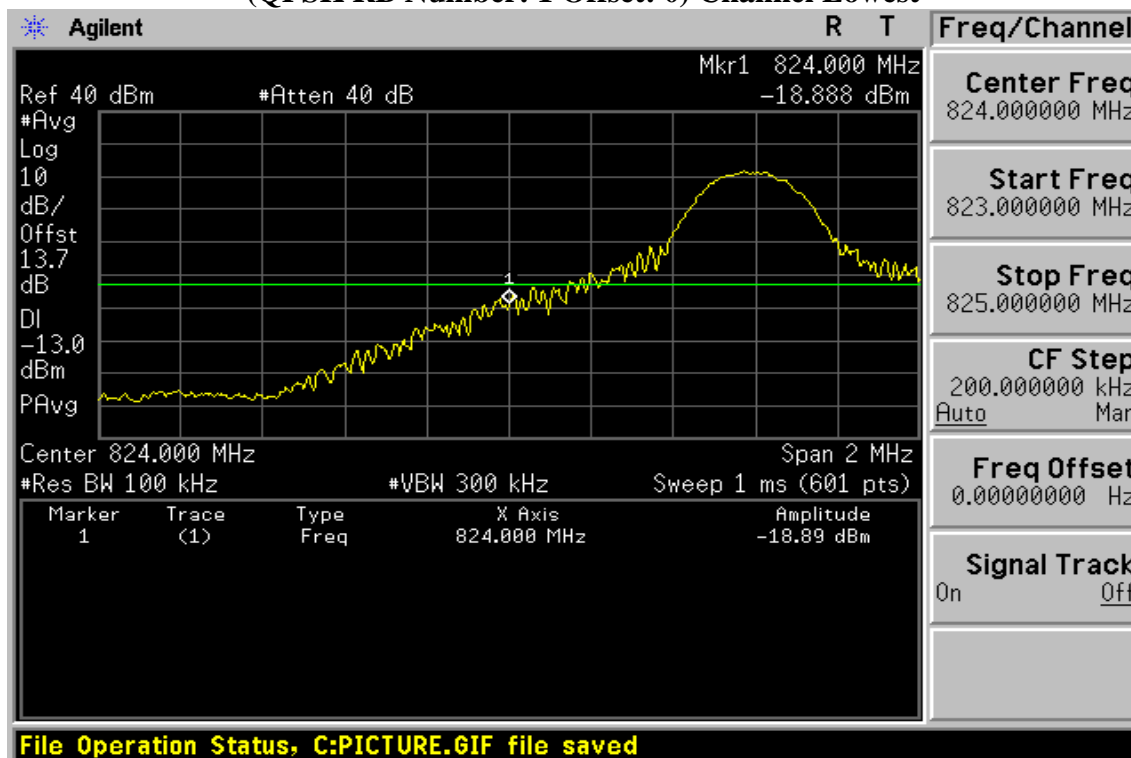
Note : “H” : denotes Harmonic Frequency. “S” : denotes Spurious Frequency.  
“” : denotes Spurious Frequency

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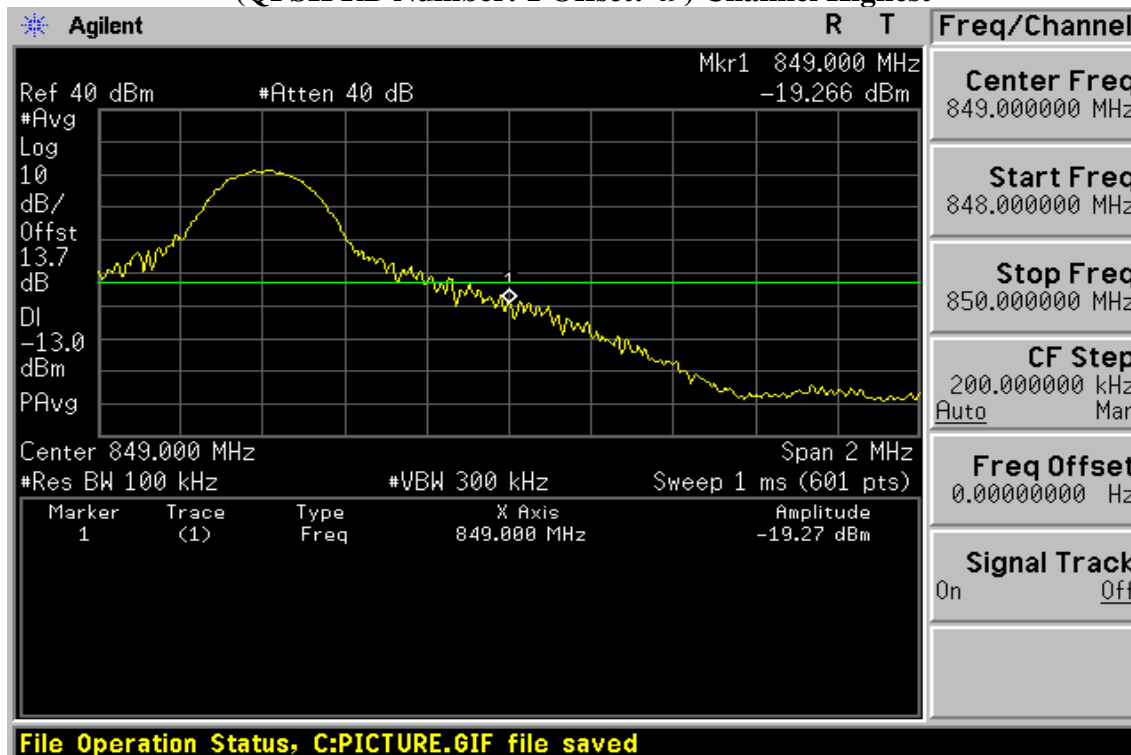
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**Figure 9-126: Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-127: Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 49) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 5****(QPSK RB Number: 1 Offset: 0) (QPSK RB Number: 1 Offset: 49)**

Test Mode

10MHz BW LTE-Band 5

Engineer

:Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 824.000      | -18.89         | -13.00       | 5.89                 |
| 849.000      | -19.27         | -13.00       | 6.27                 |

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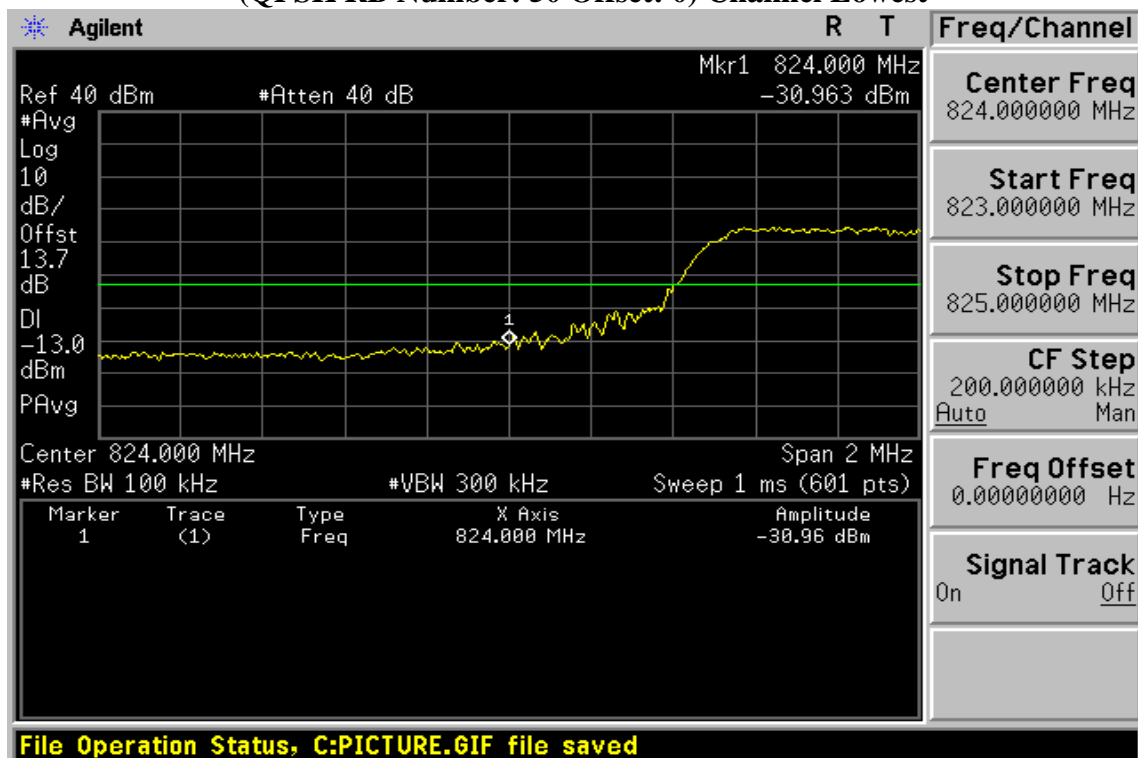
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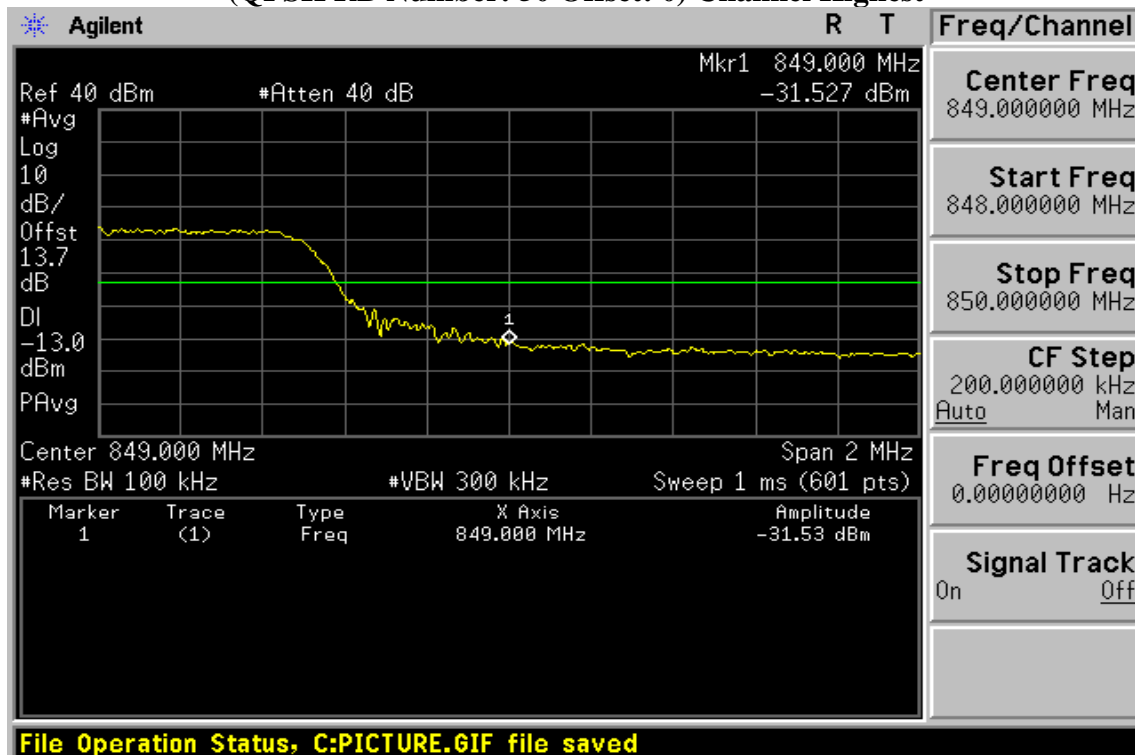
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**Figure 9-128 Band edge emission at antenna terminals –10MHz BW LTE-Band 5  
(QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Figure 9-129: Band edge emission at antenna terminals –10MHz BW LTE-Band 5  
(QPSK RB Number: 50 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 5****(QPSK RB Number: 50 Offset: 0)**

Test Mode 10MHz BW LTE-Band 5 Engineer :Nick

| Freq.<br>MHz | Reading<br>dBm | Limit<br>dBm | Safe<br>Margin<br>dB |
|--------------|----------------|--------------|----------------------|
| 824.000      | -30.96         | -13.00       | 17.96                |
| 849.000      | -31.53         | -13.00       | 18.53                |

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## 10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

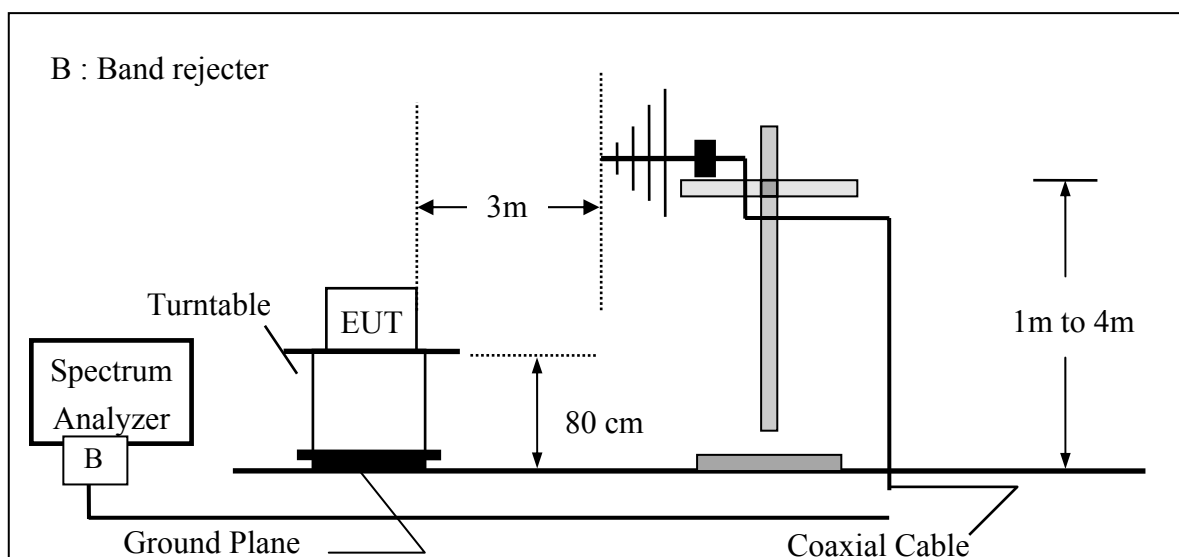
### 10.1. Standard Applicable:

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/or alignment procedure, shall not be less than  $43 + 10 \log$  (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

### 10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz

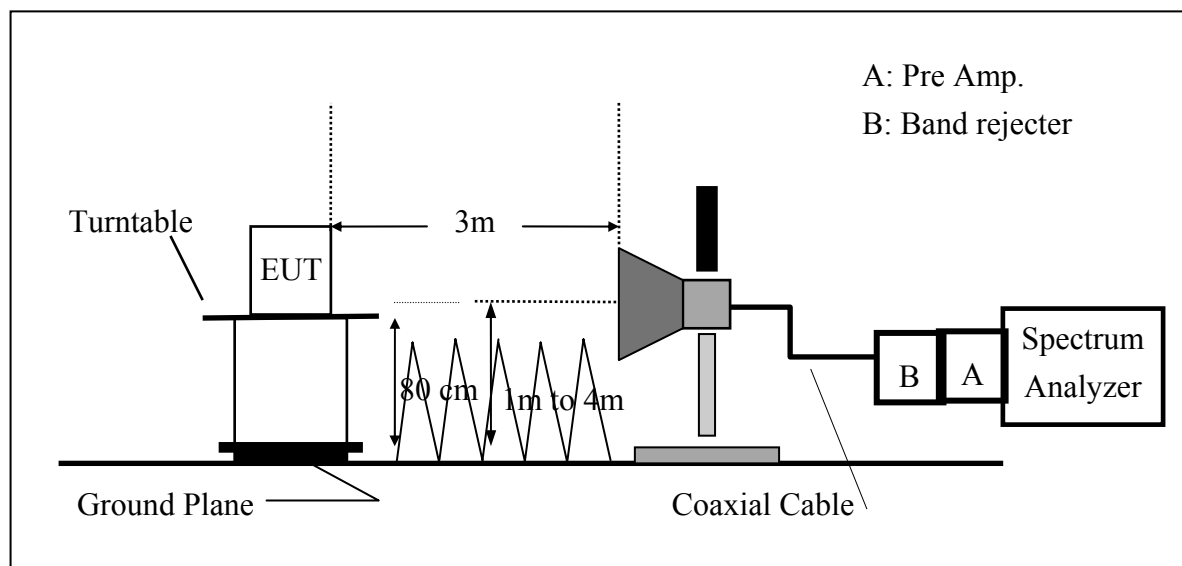


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## Radiated Emission Test Set-UP Frequency Over 1 GHz

**10.3. Measurement Procedure:**

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

**10.4. Measurement Equipment Used:**

Refer to section 2.4 in this report

**10.5. Measurement Result:**

Refer to attach tabular data sheets.

For radiated plot of test data, please refer to Appendix 1, page 436

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**Radiated Spurious Emission Measurement Result: GSM 850 Mode**

|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :GSM 850   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 128    | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :824.2 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX LOW    |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | ERP    | SG                  | Antenna     | Cable      | Limit  | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz     | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBd | Loss<br>dB | dBm    | dB     |
| 41.64   | S       | -65.70 | -52.86              | -12.00      | -0.84      | -13.00 | -52.70 |
| 89.17   | S       | -71.63 | -70.02              | -0.43       | -1.18      | -13.00 | -58.63 |
| 338.46  | S       | -71.77 | -73.80              | 3.99        | -1.95      | -13.00 | -58.77 |
| 655.65  | S       | -66.74 | -67.98              | 3.93        | -2.69      | -13.00 | -53.74 |
| 769.14  | S       | -45.01 | -45.82              | 3.70        | -2.89      | -13.00 | -32.01 |
| 938.89  | S       | -59.62 | -59.68              | 3.38        | -3.32      | -13.00 | -46.62 |
| 1648.40 | H       | -62.08 | -61.22              | 3.56        | -4.42      | -13.00 | -49.08 |
| 2472.60 | H       | -56.63 | -55.36              | 4.18        | -5.45      | -13.00 | -43.63 |
| 3296.80 | H       | ---    |                     |             |            |        |        |
| 4121.00 | H       | ---    |                     |             |            |        |        |
| 4945.20 | H       | ---    |                     |             |            |        |        |
| 5769.40 | H       | ---    |                     |             |            |        |        |
| 6593.60 | H       | ---    |                     |             |            |        |        |
| 7417.80 | H       | ---    |                     |             |            |        |        |
| 8242.00 | H       | ---    |                     |             |            |        |        |

$$\text{ERP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor..

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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :GSM 850   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 128    | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :824.2 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX LOW    |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | ERP    | SG                  | Antenna     | Cable      | Limit  | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz     | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBd | Loss<br>dB | dBm    | dB     |
| 41.64   | S       | -64.92 | -52.08              | -12.00      | -0.84      | -13.00 | -51.92 |
| 203.63  | S       | -76.45 | -78.74              | 3.81        | -1.53      | -13.00 | -63.45 |
| 447.10  | S       | -69.17 | -70.82              | 3.85        | -2.21      | -13.00 | -56.17 |
| 636.25  | S       | -70.28 | -71.47              | 3.86        | -2.67      | -13.00 | -57.28 |
| 769.14  | S       | -49.75 | -50.56              | 3.70        | -2.89      | -13.00 | -36.75 |
| 939.86  | S       | -59.36 | -59.42              | 3.38        | -3.32      | -13.00 | -46.36 |
| 1648.40 | H       | -62.08 | -61.22              | 3.56        | -4.42      | -13.00 | -49.08 |
| 2472.60 | H       | -52.14 | -50.87              | 4.18        | -5.45      | -13.00 | -39.14 |
| 3296.80 | H       | ---    |                     |             |            |        |        |
| 4121.00 | H       | ---    |                     |             |            |        |        |
| 4945.20 | H       | ---    |                     |             |            |        |        |
| 5769.40 | H       | ---    |                     |             |            |        |        |
| 6593.60 | H       | ---    |                     |             |            |        |        |
| 7417.80 | H       | ---    |                     |             |            |        |        |
| 8242.00 | H       | ---    |                     |             |            |        |        |

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :GSM 850   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 190    | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :836.6 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX MID    |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | ERP    | SG                  | Antenna     | Cable      | Limit  | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz     | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBd | Loss<br>dB | dBm    | dB     |
| 44.55   | S       | -68.02 | -55.25              | -11.87      | -0.90      | -13.00 | -55.02 |
| 318.09  | S       | -71.58 | -73.52              | 3.85        | -1.91      | -13.00 | -58.58 |
| 530.52  | S       | -70.46 | -71.94              | 3.91        | -2.44      | -13.00 | -57.46 |
| 648.86  | S       | -65.19 | -66.44              | 3.93        | -2.68      | -13.00 | -52.19 |
| 770.11  | S       | -45.89 | -46.71              | 3.71        | -2.89      | -13.00 | -32.89 |
| 948.59  | S       | -62.49 | -62.50              | 3.34        | -3.33      | -13.00 | -49.49 |
| 1673.20 | H       | -62.77 | -61.81              | 3.49        | -4.45      | -13.00 | -49.77 |
| 2509.80 | H       | -59.32 | -58.10              | 4.28        | -5.49      | -13.00 | -46.32 |
| 3346.40 | H       | ---    |                     |             |            |        |        |
| 4183.00 | H       | ---    |                     |             |            |        |        |
| 5019.60 | H       | ---    |                     |             |            |        |        |
| 5856.20 | H       | ---    |                     |             |            |        |        |
| 6692.80 | H       | ---    |                     |             |            |        |        |
| 7529.40 | H       | ---    |                     |             |            |        |        |
| 8366.00 | H       | ---    |                     |             |            |        |        |

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :GSM 850   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 190    | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :836.6 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX MID    |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | ERP    | SG                  | Antenna     | Cable      | Limit  | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz     | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBd | Loss<br>dB | dBm    | dB     |
| 44.55   | S       | -65.88 | -53.11              | -11.87      | -0.90      | -13.00 | -52.88 |
| 242.43  | S       | -76.85 | -78.47              | 3.30        | -1.68      | -13.00 | -63.85 |
| 430.61  | S       | -70.99 | -72.73              | 3.91        | -2.16      | -13.00 | -57.99 |
| 595.51  | S       | -69.91 | -70.97              | 3.66        | -2.61      | -13.00 | -56.91 |
| 771.08  | S       | -48.34 | -49.15              | 3.71        | -2.89      | -13.00 | -35.34 |
| 938.89  | S       | -60.85 | -60.91              | 3.38        | -3.32      | -13.00 | -47.85 |
| 1673.20 | H       | -63.92 | -62.97              | 3.49        | -4.45      | -13.00 | -50.92 |
| 2509.80 | H       | -54.45 | -53.24              | 4.28        | -5.49      | -13.00 | -41.45 |
| 3346.40 | H       | ---    |                     |             |            |        |        |
| 4183.00 | H       | ---    |                     |             |            |        |        |
| 5019.60 | H       | ---    |                     |             |            |        |        |
| 5856.20 | H       | ---    |                     |             |            |        |        |
| 6692.80 | H       | ---    |                     |             |            |        |        |
| 7529.40 | H       | ---    |                     |             |            |        |        |
| 8366.00 | H       | ---    |                     |             |            |        |        |

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :GSM 850   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 251    | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :848.8 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX HIGH   |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | ERP    | SG                  | Antenna     | Cable      | Limit  | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz     | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBd | Loss<br>dB | dBm    | dB     |
| 42.61   | S       | -67.82 | -55.01              | -11.96      | -0.86      | -13.00 | -54.82 |
| 307.42  | S       | -71.84 | -73.73              | 3.78        | -1.89      | -13.00 | -58.84 |
| 596.48  | S       | -68.37 | -69.42              | 3.66        | -2.61      | -13.00 | -55.37 |
| 776.90  | S       | -47.30 | -48.11              | 3.71        | -2.90      | -13.00 | -34.30 |
| 871.96  | S       | -60.64 | -61.14              | 3.68        | -3.18      | -13.00 | -47.64 |
| 938.89  | S       | -63.06 | -63.12              | 3.38        | -3.32      | -13.00 | -50.06 |
| 1697.60 | H       | -62.25 | -61.21              | 3.43        | -4.48      | -13.00 | -49.25 |
| 2546.40 | H       | -58.09 | -56.92              | 4.37        | -5.54      | -13.00 | -45.09 |
| 3395.20 | H       | ---    |                     |             |            |        |        |
| 4244.00 | H       | ---    |                     |             |            |        |        |
| 5092.80 | H       | ---    |                     |             |            |        |        |
| 5941.60 | H       | ---    |                     |             |            |        |        |
| 6790.40 | H       | ---    |                     |             |            |        |        |
| 7639.20 | H       | ---    |                     |             |            |        |        |
| 8488.00 | H       | ---    |                     |             |            |        |        |

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :GSM 850   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 251    | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :848.8 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX HIGH   |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | ERP    | SG                  | Antenna     | Cable      | Limit  | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz     | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBd | Loss<br>dB | dBm    | dB     |
| 41.64   | S       | -66.93 | -54.09              | -12.00      | -0.84      | -13.00 | -53.93 |
| 207.51  | S       | -70.92 | -73.19              | 3.82        | -1.54      | -13.00 | -57.92 |
| 449.04  | S       | -70.25 | -71.88              | 3.85        | -2.22      | -13.00 | -57.25 |
| 509.18  | S       | -70.94 | -72.51              | 3.95        | -2.38      | -13.00 | -57.94 |
| 770.11  | S       | -48.18 | -48.99              | 3.71        | -2.89      | -13.00 | -35.18 |
| 939.86  | S       | -60.32 | -60.38              | 3.38        | -3.32      | -13.00 | -47.32 |
| 1697.60 | H       | -64.23 | -63.19              | 3.43        | -4.48      | -13.00 | -51.23 |
| 2546.40 | H       | -57.94 | -56.77              | 4.37        | -5.54      | -13.00 | -44.94 |
| 3395.20 | H       | ---    |                     |             |            |        |        |
| 4244.00 | H       | ---    |                     |             |            |        |        |
| 5092.80 | H       | ---    |                     |             |            |        |        |
| 5941.60 | H       | ---    |                     |             |            |        |        |
| 6790.40 | H       | ---    |                     |             |            |        |        |
| 7639.20 | H       | ---    |                     |             |            |        |        |
| 8488.00 | H       | ---    |                     |             |            |        |        |

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: GPRS 1900 Mode**

|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :GSM 1900   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 512     | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1850.2 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX LOW     |                          |                   |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :VERTICAL         |

| Freq.    | Note    | EIRP   | SG                  | Antenna     | Cable      | Limit  | Margin |
|----------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz      | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBi | Loss<br>dB | dBm    | dB     |
| 43.58    | S       | -65.47 | -54.83              | -9.77       | -0.88      | -13.00 | -52.47 |
| 257.95   | S       | -70.87 | -74.50              | 5.36        | -1.74      | -13.00 | -57.87 |
| 335.55   | S       | -69.62 | -73.79              | 6.12        | -1.95      | -13.00 | -56.62 |
| 435.46   | S       | -69.77 | -73.64              | 6.04        | -2.18      | -13.00 | -56.77 |
| 646.92   | S       | -64.88 | -68.27              | 6.07        | -2.68      | -13.00 | -51.88 |
| 773.02   | S       | -52.05 | -55.01              | 5.86        | -2.90      | -13.00 | -39.05 |
| 3700.40  | H       | -48.19 | -50.51              | 9.13        | -6.80      | -13.00 | -35.19 |
| 5550.60  | H       | -40.29 | -42.39              | 10.50       | -8.40      | -13.00 | -27.29 |
| 7400.80  | H       | -44.51 | -46.52              | 11.80       | -9.78      | -13.00 | -31.51 |
| 9251.00  | H       | ---    |                     |             |            |        |        |
| 11101.20 | H       | ---    |                     |             |            |        |        |
| 12951.40 | H       | ---    |                     |             |            |        |        |
| 14801.60 | H       | ---    |                     |             |            |        |        |
| 16651.80 | H       | ---    |                     |             |            |        |        |
| 18502.00 | H       | ---    |                     |             |            |        |        |

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :GSM 1900   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 512     | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1850.2 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX LOW     |                          |                   |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.    | Note    | EIRP   | SG           | Antenna | Cable | Limit  | Margin |
|----------|---------|--------|--------------|---------|-------|--------|--------|
|          |         |        | Output Level | Gain    | Loss  |        |        |
| MHz      | F/H/E/S | dBm    | dBm          | dBi     | dB    | dBm    | dB     |
| 94.99    | S       | -73.41 | -73.73       | 1.51    | -1.20 | -13.00 | -60.41 |
| 239.52   | S       | -68.01 | -71.80       | 5.46    | -1.67 | -13.00 | -55.01 |
| 444.19   | S       | -68.31 | -72.12       | 6.01    | -2.20 | -13.00 | -55.31 |
| 594.54   | S       | -66.98 | -70.19       | 5.82    | -2.61 | -13.00 | -53.98 |
| 774.96   | S       | -54.38 | -57.34       | 5.86    | -2.90 | -13.00 | -41.38 |
| 941.80   | S       | -64.20 | -66.40       | 5.52    | -3.32 | -13.00 | -51.20 |
| 3700.40  | H       | -50.17 | -52.50       | 9.13    | -6.80 | -13.00 | -37.17 |
| 5550.60  | H       | -47.60 | -49.70       | 10.50   | -8.40 | -13.00 | -34.60 |
| 7400.80  | H       | -46.95 | -48.97       | 11.80   | -9.78 | -13.00 | -33.95 |
| 9251.00  | H       | ---    |              |         |       |        |        |
| 11101.20 | H       | ---    |              |         |       |        |        |
| 12951.40 | H       | ---    |              |         |       |        |        |
| 14801.60 | H       | ---    |              |         |       |        |        |
| 16651.80 | H       | ---    |              |         |       |        |        |
| 18502.00 | H       | ---    |              |         |       |        |        |

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :GSM 1900 | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 661   | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1880 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX MID   |                          |                   |
| EUT Pol.              | :H Plane  | Measurement Antenna Pol. | :VERTICAL         |

| Freq.    | Note    | EIRP   | SG                  | Antenna     | Cable      | Limit  | Margin |
|----------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz      | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBi | Loss<br>dB | dBm    | dB     |
| 46.49    | S       | -64.96 | -54.64              | -9.39       | -0.93      | -13.00 | -51.96 |
| 240.49   | S       | -71.99 | -75.75              | 5.44        | -1.67      | -13.00 | -58.99 |
| 447.10   | S       | -70.86 | -74.66              | 6.00        | -2.21      | -13.00 | -57.86 |
| 646.92   | S       | -64.71 | -68.10              | 6.07        | -2.68      | -13.00 | -51.71 |
| 769.14   | S       | -54.09 | -57.06              | 5.85        | -2.89      | -13.00 | -41.09 |
| 942.77   | S       | -63.70 | -65.89              | 5.52        | -3.33      | -13.00 | -50.70 |
| 3760.00  | H       | -46.77 | -49.08              | 9.16        | -6.85      | -13.00 | -33.77 |
| 5640.00  | H       | -44.13 | -46.16              | 10.50       | -8.47      | -13.00 | -31.13 |
| 7520.00  | H       | -45.13 | -47.18              | 11.92       | -9.87      | -13.00 | -32.13 |
| 9400.00  | H       | ---    |                     |             |            |        |        |
| 11280.00 | H       | ---    |                     |             |            |        |        |
| 13160.00 | H       | ---    |                     |             |            |        |        |
| 15040.00 | H       | ---    |                     |             |            |        |        |
| 16920.00 | H       | ---    |                     |             |            |        |        |
| 18800.00 | H       | ---    |                     |             |            |        |        |

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :GSM 1900 | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 661   | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1880 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX MID   |                          |                   |
| EUT Pol.              | :H Plane  | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.    | Note    | EIRP   | SG                  | Antenna     | Cable      | Limit  | Margin |
|----------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz      | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBi | Loss<br>dB | dBm    | dB     |
| 87.23    | S       | -73.59 | -73.71              | 1.27        | -1.15      | -13.00 | -60.59 |
| 243.40   | S       | -67.46 | -71.23              | 5.45        | -1.68      | -13.00 | -54.46 |
| 440.31   | S       | -68.68 | -72.52              | 6.03        | -2.19      | -13.00 | -55.68 |
| 641.10   | S       | -63.44 | -66.81              | 6.04        | -2.67      | -13.00 | -50.44 |
| 773.02   | S       | -55.00 | -57.96              | 5.86        | -2.90      | -13.00 | -42.00 |
| 946.65   | S       | -64.06 | -66.23              | 5.50        | -3.33      | -13.00 | -51.06 |
| 3760.00  | H       | -54.43 | -56.74              | 9.16        | -6.85      | -13.00 | -41.43 |
| 5640.00  | H       | -48.03 | -50.05              | 10.50       | -8.47      | -13.00 | -35.03 |
| 7520.00  | H       | -50.33 | -52.38              | 11.92       | -9.87      | -13.00 | -37.33 |
| 9400.00  | H       | ---    |                     |             |            |        |        |
| 11280.00 | H       | ---    |                     |             |            |        |        |
| 13160.00 | H       | ---    |                     |             |            |        |        |
| 15040.00 | H       | ---    |                     |             |            |        |        |
| 16920.00 | H       | ---    |                     |             |            |        |        |
| 18800.00 | H       | ---    |                     |             |            |        |        |

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :GSM 1900   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 810     | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1909.8 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX HIGH    |                          |                   |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :VERTICAL         |

| Freq.    | Note    | EIRP   | SG                  | Antenna     | Cable      | Limit  | Margin |
|----------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz      | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBi | Loss<br>dB | dBm    | dB     |
| 46.49    | S       | -65.14 | -54.81              | -9.39       | -0.93      | -13.00 | -52.14 |
| 244.37   | S       | -71.57 | -75.34              | 5.46        | -1.69      | -13.00 | -58.57 |
| 378.23   | S       | -70.91 | -75.07              | 6.19        | -2.03      | -13.00 | -57.91 |
| 575.14   | S       | -69.23 | -72.59              | 5.91        | -2.56      | -13.00 | -56.23 |
| 772.05   | S       | -54.51 | -57.47              | 5.86        | -2.89      | -13.00 | -41.51 |
| 939.86   | S       | -63.71 | -65.92              | 5.53        | -3.32      | -13.00 | -50.71 |
| 3819.60  | H       | -46.55 | -48.85              | 9.20        | -6.90      | -13.00 | -33.55 |
| 5729.40  | H       | -43.88 | -45.83              | 10.50       | -8.54      | -13.00 | -30.88 |
| 7639.20  | H       | -45.47 | -47.54              | 12.01       | -9.94      | -13.00 | -32.47 |
| 9549.00  | H       | ---    |                     |             |            |        |        |
| 11458.80 | H       | ---    |                     |             |            |        |        |
| 13368.60 | H       | ---    |                     |             |            |        |        |
| 15278.40 | H       | ---    |                     |             |            |        |        |
| 17188.20 | H       | ---    |                     |             |            |        |        |
| 19098.00 | H       | ---    |                     |             |            |        |        |

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :GSM 1900   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 810     | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1909.8 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX HIGH    |                          |                   |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.    | Note    | EIRP   | SG           | Antenna | Cable | Limit  | Margin |
|----------|---------|--------|--------------|---------|-------|--------|--------|
|          |         |        | Output Level | Gain    | Loss  |        |        |
| MHz      | F/H/E/S | dBm    | dBm          | dBi     | dB    | dBm    | dB     |
| 94.99    | S       | -71.89 | -72.20       | 1.51    | -1.20 | -13.00 | -58.89 |
| 242.43   | S       | -67.31 | -71.08       | 5.45    | -1.68 | -13.00 | -54.31 |
| 426.73   | S       | -68.69 | -72.62       | 6.07    | -2.15 | -13.00 | -55.69 |
| 641.10   | S       | -64.77 | -68.13       | 6.04    | -2.67 | -13.00 | -51.77 |
| 773.02   | S       | -53.77 | -56.73       | 5.86    | -2.90 | -13.00 | -40.77 |
| 946.65   | S       | -64.71 | -66.88       | 5.50    | -3.33 | -13.00 | -51.71 |
| 3819.60  | H       | -52.82 | -55.12       | 9.20    | -6.90 | -13.00 | -39.82 |
| 5729.40  | H       | -45.84 | -47.80       | 10.50   | -8.54 | -13.00 | -32.84 |
| 7639.20  | H       | -49.15 | -51.22       | 12.01   | -9.94 | -13.00 | -36.15 |
| 9549.00  | H       | ---    |              |         |       |        |        |
| 11458.80 | H       | ---    |              |         |       |        |        |
| 13368.60 | H       | ---    |              |         |       |        |        |
| 15278.40 | H       | ---    |              |         |       |        |        |
| 17188.20 | H       | ---    |              |         |       |        |        |
| 19098.00 | H       | ---    |              |         |       |        |        |

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: HSDPA II Mode**

|                       |              |                          |                    |
|-----------------------|--------------|--------------------------|--------------------|
| Operation Band        | : WCDMA B2   | Test Date                | : 2014-11-26       |
| ARFCN                 | : CH 9262    | Temp./Humi.              | : 23 deg_C / 56 RH |
| Fundamental Frequency | : 1852.4 MHz | Engineer                 | : Curry            |
| Operation Mode        | : TX LOW     |                          |                    |
| EUT Pol.              | : H Plane    | Measurement Antenna Pol. | : VERTICAL         |

| Freq.    | Note    | EIRP   | SG                  | Antenna     | Cable      | Limit  | Margin |
|----------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz      | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBi | Loss<br>dB | dBm    | dB     |
| 31.94    | S       | -53.59 | -41.07              | -11.72      | -0.80      | -13.00 | -40.59 |
| 282.20   | S       | -70.71 | -74.52              | 5.63        | -1.82      | -13.00 | -57.71 |
| 431.58   | S       | -70.09 | -73.98              | 6.06        | -2.17      | -13.00 | -57.09 |
| 648.86   | S       | -64.89 | -68.29              | 6.08        | -2.68      | -13.00 | -51.89 |
| 773.99   | S       | -53.14 | -56.10              | 5.86        | -2.90      | -13.00 | -40.14 |
| 953.44   | S       | -64.28 | -66.22              | 5.28        | -3.34      | -13.00 | -51.28 |
| 3704.80  | H       | -55.15 | -57.47              | 9.13        | -6.80      | -13.00 | -42.15 |
| 5557.20  | H       | -52.52 | -54.62              | 10.50       | -8.41      | -13.00 | -39.52 |
| 7409.60  | H       | -45.42 | -47.44              | 11.81       | -9.79      | -13.00 | -32.42 |
| 9262.00  | H       | ---    |                     |             |            |        |        |
| 11114.40 | H       | ---    |                     |             |            |        |        |
| 12966.80 | H       | ---    |                     |             |            |        |        |
| 14819.20 | H       | ---    |                     |             |            |        |        |
| 16671.60 | H       | ---    |                     |             |            |        |        |
| 18524.00 | H       | ---    |                     |             |            |        |        |

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B2   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 9262    | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1852.4 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX LOW     |                          |                   |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.    | Note    | EIRP   | SG                  | Antenna     | Cable      | Limit  | Margin |
|----------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz      | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBi | Loss<br>dB | dBm    | dB     |
| 88.20    | S       | -69.84 | -70.17              | 1.50        | -1.17      | -13.00 | -56.84 |
| 247.28   | S       | -69.84 | -73.62              | 5.47        | -1.70      | -13.00 | -56.84 |
| 435.46   | S       | -70.00 | -73.86              | 6.04        | -2.18      | -13.00 | -57.00 |
| 516.94   | S       | -68.33 | -72.02              | 6.08        | -2.40      | -13.00 | -55.33 |
| 659.53   | S       | -64.93 | -68.31              | 6.08        | -2.69      | -13.00 | -51.93 |
| 771.08   | S       | -53.55 | -56.52              | 5.86        | -2.89      | -13.00 | -40.55 |
| 3704.80  | H       | -56.61 | -58.94              | 9.13        | -6.80      | -13.00 | -43.61 |
| 5557.20  | H       | -52.73 | -54.82              | 10.50       | -8.41      | -13.00 | -39.73 |
| 7409.60  | H       | -49.23 | -51.25              | 11.81       | -9.79      | -13.00 | -36.23 |
| 9262.00  | H       | ---    |                     |             |            |        |        |
| 11114.40 | H       | ---    |                     |             |            |        |        |
| 12966.80 | H       | ---    |                     |             |            |        |        |
| 14819.20 | H       | ---    |                     |             |            |        |        |
| 16671.60 | H       | ---    |                     |             |            |        |        |
| 18524.00 | H       | ---    |                     |             |            |        |        |

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :WCDMA B2 | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 9400  | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1880 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX MID   |                          |                   |
| EUT Pol.              | :H Plane  | Measurement Antenna Pol. | :VERTICAL         |

| Freq.    | Note    | EIRP   | SG                  | Antenna     | Cable      | Limit  | Margin |
|----------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz      | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBi | Loss<br>dB | dBm    | dB     |
| 32.91    | S       | -54.47 | -42.19              | -11.48      | -0.80      | -13.00 | -41.47 |
| 155.13   | S       | -73.19 | -72.45              | 0.66        | -1.40      | -13.00 | -60.19 |
| 313.24   | S       | -71.00 | -75.06              | 5.97        | -1.90      | -13.00 | -58.00 |
| 539.25   | S       | -69.94 | -73.53              | 6.05        | -2.46      | -13.00 | -56.94 |
| 772.05   | S       | -50.60 | -53.56              | 5.86        | -2.89      | -13.00 | -37.60 |
| 924.34   | S       | -64.54 | -66.84              | 5.60        | -3.30      | -13.00 | -51.54 |
| 3760.00  | H       | -55.13 | -57.44              | 9.16        | -6.85      | -13.00 | -42.13 |
| 5640.00  | H       | ---    |                     |             |            |        |        |
| 7520.00  | H       | -46.47 | -48.51              | 11.92       | -9.87      | -13.00 | -33.47 |
| 9400.00  | H       | ---    |                     |             |            |        |        |
| 11280.00 | H       | ---    |                     |             |            |        |        |
| 13160.00 | H       | ---    |                     |             |            |        |        |
| 15040.00 | H       | ---    |                     |             |            |        |        |
| 16920.00 | H       | ---    |                     |             |            |        |        |
| 18800.00 | H       | ---    |                     |             |            |        |        |

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :WCDMA B2 | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 9400  | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1880 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX MID   |                          |                   |
| EUT Pol.              | :H Plane  | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.    | Note    | EIRP   | SG                  | Antenna     | Cable      | Limit  | Margin |
|----------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz      | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBi | Loss<br>dB | dBm    | dB     |
| 94.99    | S       | -69.70 | -70.02              | 1.51        | -1.20      | -13.00 | -56.70 |
| 278.32   | S       | -70.58 | -74.42              | 5.64        | -1.80      | -13.00 | -57.58 |
| 515.97   | S       | -70.22 | -73.91              | 6.09        | -2.40      | -13.00 | -57.22 |
| 651.77   | S       | -63.46 | -66.86              | 6.09        | -2.68      | -13.00 | -50.46 |
| 771.08   | S       | -51.70 | -54.66              | 5.86        | -2.89      | -13.00 | -38.70 |
| 941.80   | S       | -62.30 | -64.49              | 5.52        | -3.32      | -13.00 | -49.30 |
| 3760.00  | H       | -57.69 | -60.00              | 9.16        | -6.85      | -13.00 | -44.69 |
| 5640.00  | H       | ---    |                     |             |            |        |        |
| 7520.00  | H       | -49.05 | -51.09              | 11.92       | -9.87      | -13.00 | -36.05 |
| 9400.00  | H       | ---    |                     |             |            |        |        |
| 11280.00 | H       | ---    |                     |             |            |        |        |
| 13160.00 | H       | ---    |                     |             |            |        |        |
| 15040.00 | H       | ---    |                     |             |            |        |        |
| 16920.00 | H       | ---    |                     |             |            |        |        |
| 18800.00 | H       | ---    |                     |             |            |        |        |

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B2   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 9538    | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1907.6 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX HIGH    |                          |                   |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :VERTICAL         |

| Freq.    | Note    | EIRP   | SG                  | Antenna     | Cable      | Limit  | Margin |
|----------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz      | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBi | Loss<br>dB | dBm    | dB     |
| 31.94    | S       | -53.94 | -41.42              | -11.72      | -0.80      | -13.00 | -40.94 |
| 170.65   | S       | -74.14 | -74.45              | 1.75        | -1.44      | -13.00 | -61.14 |
| 313.24   | S       | -69.94 | -74.01              | 5.97        | -1.90      | -13.00 | -56.94 |
| 635.28   | S       | -65.23 | -68.57              | 6.00        | -2.66      | -13.00 | -52.23 |
| 773.02   | S       | -52.88 | -55.84              | 5.86        | -2.90      | -13.00 | -39.88 |
| 948.59   | S       | -64.46 | -66.62              | 5.49        | -3.33      | -13.00 | -51.46 |
| 3815.20  | H       | -55.32 | -57.61              | 9.19        | -6.90      | -13.00 | -42.32 |
| 5722.80  | H       | ---    |                     |             |            |        |        |
| 7630.40  | H       | -44.76 | -46.83              | 12.01       | -9.94      | -13.00 | -31.76 |
| 9538.00  | H       | ---    |                     |             |            |        |        |
| 11445.60 | H       | ---    |                     |             |            |        |        |
| 13353.20 | H       | ---    |                     |             |            |        |        |
| 15260.80 | H       | ---    |                     |             |            |        |        |
| 17168.40 | H       | ---    |                     |             |            |        |        |
| 19076.00 | H       | ---    |                     |             |            |        |        |

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B2   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 9538    | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1907.6 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX HIGH    |                          |                   |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.    | Note    | EIRP   | SG                  | Antenna     | Cable      | Limit  | Margin |
|----------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz      | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBi | Loss<br>dB | dBm    | dB     |
| 88.20    | S       | -70.36 | -70.70              | 1.50        | -1.17      | -13.00 | -57.36 |
| 286.08   | S       | -69.92 | -73.65              | 5.55        | -1.83      | -13.00 | -56.92 |
| 527.61   | S       | -69.86 | -73.50              | 6.07        | -2.43      | -13.00 | -56.86 |
| 646.92   | S       | -64.67 | -68.06              | 6.07        | -2.68      | -13.00 | -51.67 |
| 773.99   | S       | -51.73 | -54.69              | 5.86        | -2.90      | -13.00 | -38.73 |
| 937.92   | S       | -64.78 | -67.00              | 5.54        | -3.32      | -13.00 | -51.78 |
| 3815.20  | H       | -56.43 | -58.73              | 9.19        | -6.90      | -13.00 | -43.43 |
| 5722.80  | H       | ---    |                     |             |            |        |        |
| 7630.40  | H       | -48.23 | -50.30              | 12.01       | -9.94      | -13.00 | -35.23 |
| 9538.00  | H       | ---    |                     |             |            |        |        |
| 11445.60 | H       | ---    |                     |             |            |        |        |
| 13353.20 | H       | ---    |                     |             |            |        |        |
| 15260.80 | H       | ---    |                     |             |            |        |        |
| 17168.40 | H       | ---    |                     |             |            |        |        |
| 19076.00 | H       | ---    |                     |             |            |        |        |

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: HSDPA V Mode**

|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B5  | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 4132   | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :826.4 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX LOW    |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | ERP    | SG                  | Antenna     | Cable      | Limit  | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz     | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBd | Loss<br>dB | dBm    | dB     |
| 32.91   | S       | -55.86 | -41.43              | -13.63      | -0.80      | -13.00 | -42.86 |
| 89.17   | S       | -71.88 | -70.27              | -0.43       | -1.18      | -13.00 | -58.88 |
| 283.17  | S       | -72.33 | -73.98              | 3.46        | -1.82      | -13.00 | -59.33 |
| 383.08  | S       | -72.16 | -74.16              | 4.03        | -2.04      | -13.00 | -59.16 |
| 639.16  | S       | -66.68 | -67.89              | 3.88        | -2.67      | -13.00 | -53.68 |
| 772.05  | S       | -54.86 | -55.67              | 3.71        | -2.89      | -13.00 | -41.86 |
| 1652.80 | H       | -63.34 | -62.47              | 3.55        | -4.42      | -13.00 | -50.34 |
| 2479.20 | H       | ---    |                     |             |            |        |        |
| 3305.60 | H       | ---    |                     |             |            |        |        |
| 4132.00 | H       | ---    |                     |             |            |        |        |
| 4958.40 | H       | ---    |                     |             |            |        |        |
| 5784.80 | H       | ---    |                     |             |            |        |        |
| 6611.20 | H       | ---    |                     |             |            |        |        |
| 7437.60 | H       | ---    |                     |             |            |        |        |
| 8264.00 | H       | ---    |                     |             |            |        |        |

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B5  | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 4132   | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :826.4 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX LOW    |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | ERP    | SG                  | Antenna     | Cable      | Limit  | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz     | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBd | Loss<br>dB | dBm    | dB     |
| 88.20   | S       | -70.16 | -68.34              | -0.65       | -1.17      | -13.00 | -57.16 |
| 240.49  | S       | -68.80 | -70.41              | 3.29        | -1.67      | -13.00 | -55.80 |
| 390.84  | S       | -72.62 | -74.59              | 4.03        | -2.05      | -13.00 | -59.62 |
| 641.10  | S       | -67.29 | -68.50              | 3.89        | -2.67      | -13.00 | -54.29 |
| 770.11  | S       | -54.85 | -55.66              | 3.71        | -2.89      | -13.00 | -41.85 |
| 948.59  | S       | -65.34 | -65.34              | 3.34        | -3.33      | -13.00 | -52.34 |
| 1652.80 | H       | -65.53 | -64.65              | 3.55        | -4.42      | -13.00 | -52.53 |
| 2479.20 | H       | ---    |                     |             |            |        |        |
| 3305.60 | H       | ---    |                     |             |            |        |        |
| 4132.00 | H       | ---    |                     |             |            |        |        |
| 4958.40 | H       | ---    |                     |             |            |        |        |
| 5784.80 | H       | ---    |                     |             |            |        |        |
| 6611.20 | H       | ---    |                     |             |            |        |        |
| 7437.60 | H       | ---    |                     |             |            |        |        |
| 8264.00 | H       | ---    |                     |             |            |        |        |

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B5  | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 4183   | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :836.6 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX MID    |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | ERP    | SG           | Antenna | Cable | Limit  | Margin |
|---------|---------|--------|--------------|---------|-------|--------|--------|
|         |         |        | Output Level | Gain    | Loss  |        |        |
| MHz     | F/H/E/S | dBm    | dBm          | dBd     | dB    | dBm    | dB     |
| 31.94   | S       | -58.18 | -43.50       | -13.87  | -0.80 | -13.00 | -45.18 |
| 336.52  | S       | -71.59 | -73.62       | 3.98    | -1.95 | -13.00 | -58.59 |
| 523.73  | S       | -71.80 | -73.31       | 3.92    | -2.42 | -13.00 | -58.80 |
| 640.13  | S       | -67.26 | -68.47       | 3.88    | -2.67 | -13.00 | -54.26 |
| 773.02  | S       | -54.81 | -55.63       | 3.71    | -2.90 | -13.00 | -41.81 |
| 935.98  | S       | -66.13 | -66.21       | 3.40    | -3.32 | -13.00 | -53.13 |
| 1673.20 | H       | -63.57 | -62.61       | 3.49    | -4.45 | -13.00 | -50.57 |
| 2509.80 | H       | ---    |              |         |       |        |        |
| 3346.40 | H       | ---    |              |         |       |        |        |
| 4183.00 | H       | ---    |              |         |       |        |        |
| 5019.60 | H       | ---    |              |         |       |        |        |
| 5856.20 | H       | ---    |              |         |       |        |        |
| 6692.80 | H       | ---    |              |         |       |        |        |
| 7529.40 | H       | ---    |              |         |       |        |        |
| 8366.00 | H       | ---    |              |         |       |        |        |

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B5  | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 4183   | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :836.6 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX MID    |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | ERP    | SG                  | Antenna     | Cable      | Limit  | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz     | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBd | Loss<br>dB | dBm    | dB     |
| 91.11   | S       | -70.18 | -68.65              | -0.33       | -1.20      | -13.00 | -57.18 |
| 239.52  | S       | -67.99 | -69.63              | 3.31        | -1.67      | -13.00 | -54.99 |
| 322.94  | S       | -71.84 | -73.81              | 3.88        | -1.92      | -13.00 | -58.84 |
| 594.54  | S       | -68.56 | -69.62              | 3.67        | -2.61      | -13.00 | -55.56 |
| 773.02  | S       | -53.69 | -54.50              | 3.71        | -2.90      | -13.00 | -40.69 |
| 951.50  | S       | -65.80 | -65.71              | 3.25        | -3.34      | -13.00 | -52.80 |
| 1673.20 | H       | -65.05 | -64.09              | 3.49        | -4.45      | -13.00 | -52.05 |
| 2509.80 | H       | ---    |                     |             |            |        |        |
| 3346.40 | H       | ---    |                     |             |            |        |        |
| 4183.00 | H       | ---    |                     |             |            |        |        |
| 5019.60 | H       | ---    |                     |             |            |        |        |
| 5856.20 | H       | ---    |                     |             |            |        |        |
| 6692.80 | H       | ---    |                     |             |            |        |        |
| 7529.40 | H       | ---    |                     |             |            |        |        |
| 8366.00 | H       | ---    |                     |             |            |        |        |

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B5  | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 4233   | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :846.6 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX HIGH   |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | ERP    | SG                  | Antenna     | Cable      | Limit  | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz     | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBd | Loss<br>dB | dBm    | dB     |
| 32.91   | S       | -55.02 | -40.59              | -13.63      | -0.80      | -13.00 | -42.02 |
| 325.85  | S       | -71.34 | -73.32              | 3.90        | -1.93      | -13.00 | -58.34 |
| 467.47  | S       | -71.63 | -73.25              | 3.89        | -2.27      | -13.00 | -58.63 |
| 646.92  | S       | -66.49 | -67.74              | 3.92        | -2.68      | -13.00 | -53.49 |
| 772.05  | S       | -55.82 | -56.64              | 3.71        | -2.89      | -13.00 | -42.82 |
| 949.56  | S       | -67.33 | -67.33              | 3.34        | -3.34      | -13.00 | -54.33 |
| 1693.20 | H       | -62.29 | -61.26              | 3.44        | -4.48      | -13.00 | -49.29 |
| 2539.80 | H       | ---    |                     |             |            |        |        |
| 3386.40 | H       | ---    |                     |             |            |        |        |
| 4233.00 | H       | ---    |                     |             |            |        |        |
| 5079.60 | H       | ---    |                     |             |            |        |        |
| 5926.20 | H       | ---    |                     |             |            |        |        |
| 6772.80 | H       | ---    |                     |             |            |        |        |
| 7619.40 | H       | ---    |                     |             |            |        |        |
| 8466.00 | H       | ---    |                     |             |            |        |        |

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B5  | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 4233   | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :846.6 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX HIGH   |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | ERP    | SG                  | Antenna     | Cable      | Limit  | Margin |
|---------|---------|--------|---------------------|-------------|------------|--------|--------|
| MHz     | F/H/E/S | dBm    | Output Level<br>dBm | Gain<br>dBd | Loss<br>dB | dBm    | dB     |
| 89.17   | S       | -70.55 | -68.94              | -0.43       | -1.18      | -13.00 | -57.55 |
| 242.43  | S       | -68.93 | -70.55              | 3.30        | -1.68      | -13.00 | -55.93 |
| 451.95  | S       | -73.00 | -74.62              | 3.85        | -2.22      | -13.00 | -60.00 |
| 642.07  | S       | -67.21 | -68.43              | 3.89        | -2.67      | -13.00 | -54.21 |
| 771.08  | S       | -55.52 | -56.34              | 3.71        | -2.89      | -13.00 | -42.52 |
| 948.59  | S       | -65.76 | -65.77              | 3.34        | -3.33      | -13.00 | -52.76 |
| 1693.20 | H       | -64.50 | -63.47              | 3.44        | -4.48      | -13.00 | -51.50 |
| 2539.80 | H       | ---    |                     |             |            |        |        |
| 3386.40 | H       | ---    |                     |             |            |        |        |
| 4233.00 | H       | ---    |                     |             |            |        |        |
| 5079.60 | H       | ---    |                     |             |            |        |        |
| 5926.20 | H       | ---    |                     |             |            |        |        |
| 6772.80 | H       | ---    |                     |             |            |        |        |
| 7619.40 | H       | ---    |                     |             |            |        |        |
| 8466.00 | H       | ---    |                     |             |            |        |        |

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: 20 MHz BW LTE-Band 2(The Worst Case)**

|                       |                                 |                          |                   |
|-----------------------|---------------------------------|--------------------------|-------------------|
| Operation Band        | :LTE B4                         | Test Date                | :2014-02-28       |
| ARFCN                 | :CH 18700 16QAM BW<br>20 RB 1 0 | Test Date                | :2014-11-20       |
| Operation Band        | :LTE B2                         | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :1860 MHz                       | Engineer                 | :Tin              |
| Operation Mode        | :TX LOW                         |                          |                   |
| EUT Pol.              | :E2 Plane                       | Measurement Antenna Pol. | :VERTICAL         |

| Freq.    | Note    | EIRP   | SG<br>Output Level | Antenna<br>Gain | Cable<br>Loss | Limit  | Safe<br>Margin |
|----------|---------|--------|--------------------|-----------------|---------------|--------|----------------|
| MHz      | F/H/E/S | dBm    | dBm                | dBi             | dB            | dBm    | dB             |
| 31.94    | S       | -55.45 | -40.77             | -13.87          | -0.80         | -13.00 | -42.45         |
| 250.19   | S       | -73.02 | -74.65             | 3.34            | -1.71         | -13.00 | -60.02         |
| 448.07   | S       | -72.44 | -74.07             | 3.85            | -2.21         | -13.00 | -59.44         |
| 522.76   | S       | -71.45 | -72.96             | 3.93            | -2.42         | -13.00 | -58.45         |
| 772.05   | S       | -54.39 | -55.20             | 3.71            | -2.89         | -13.00 | -41.39         |
| 937.92   | S       | -65.87 | -65.94             | 3.39            | -3.32         | -13.00 | -52.87         |
| 3720.00  | H       | -52.11 | -54.43             | 9.14            | -6.82         | -13.00 | -39.11         |
| 5580.00  | H       | ---    |                    |                 |               |        |                |
| 7440.00  | H       | ---    |                    |                 |               |        |                |
| 9300.00  | H       | ---    |                    |                 |               |        |                |
| 11160.00 | H       | ---    |                    |                 |               |        |                |
| 13020.00 | H       | ---    |                    |                 |               |        |                |
| 14880.00 | H       | ---    |                    |                 |               |        |                |
| 16740.00 | H       | ---    |                    |                 |               |        |                |
| 18600.00 | H       | ---    |                    |                 |               |        |                |

$$\text{EIRP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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|                       |                    |                          |                   |
|-----------------------|--------------------|--------------------------|-------------------|
| ARFCN                 | :CH 18700 16QAM BW | Test Date                | :2014-11-20       |
|                       | 20 RB 1 0          |                          |                   |
| Operation Band        | :LTE B2            | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :1860 MHz          | Engineer                 | :Tin              |
| Operation Mode        | :TX LOW            |                          |                   |
| EUT Pol.              | :E2 Plane          | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.    | Note    | EIRP   | SG           | Antenna | Cable | Limit  | Margin |
|----------|---------|--------|--------------|---------|-------|--------|--------|
|          |         |        | Output Level | Gain    | Loss  |        |        |
| MHz      | F/H/E/S | dBm    | dBm          | dBi     | dB    | dBm    | dB     |
| 90.14    | S       | -70.77 | -69.33       | -0.25   | -1.20 | -13.00 | -57.77 |
| 247.28   | S       | -71.95 | -73.58       | 3.32    | -1.70 | -13.00 | -58.95 |
| 392.78   | S       | -73.35 | -75.32       | 4.03    | -2.06 | -13.00 | -60.35 |
| 596.48   | S       | -68.74 | -69.79       | 3.66    | -2.61 | -13.00 | -55.74 |
| 772.05   | S       | -54.39 | -55.20       | 3.71    | -2.89 | -13.00 | -41.39 |
| 940.83   | S       | -66.56 | -66.61       | 3.38    | -3.32 | -13.00 | -53.56 |
| 3720.00  | H       | -58.22 | -60.54       | 9.14    | -6.82 | -13.00 | -45.22 |
| 5580.00  | H       | ---    |              |         |       |        |        |
| 7440.00  | H       | ---    |              |         |       |        |        |
| 9300.00  | H       | ---    |              |         |       |        |        |
| 11160.00 | H       | ---    |              |         |       |        |        |
| 13020.00 | H       | ---    |              |         |       |        |        |
| 14880.00 | H       | ---    |              |         |       |        |        |
| 16740.00 | H       | ---    |              |         |       |        |        |
| 18600.00 | H       | ---    |              |         |       |        |        |

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |                    |                          |                   |
|-----------------------|--------------------|--------------------------|-------------------|
| ARFCN                 | :CH 18900 16QAM BW | Test Date                | :2014-11-20       |
|                       | 20 RB 1 0          |                          |                   |
| Operation Band        | :LTE B2            | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :1880 MHz          | Engineer                 | :Tin              |
| Operation Mode        | :TX MID            |                          |                   |
| EUT Pol.              | :E2 Plane          | Measurement Antenna Pol. | :VERTICAL         |

| Freq.    | Note    | EIRP   | SG           | Antenna | Cable | Limit  | Margin |
|----------|---------|--------|--------------|---------|-------|--------|--------|
|          |         |        | Output Level | Gain    | Loss  |        |        |
| MHz      | F/H/E/S | dBm    | dBm          | dBi     | dB    | dBm    | dB     |
| 31.94    | S       | -55.48 | -40.80       | -13.87  | -0.80 | -13.00 | -42.48 |
| 265.71   | S       | -73.06 | -74.55       | 3.25    | -1.76 | -13.00 | -60.06 |
| 385.99   | S       | -73.18 | -75.16       | 4.03    | -2.05 | -13.00 | -60.18 |
| 536.34   | S       | -71.26 | -72.71       | 3.91    | -2.45 | -13.00 | -58.26 |
| 689.60   | S       | -67.21 | -68.38       | 3.89    | -2.73 | -13.00 | -54.21 |
| 773.02   | S       | -54.74 | -55.56       | 3.71    | -2.90 | -13.00 | -41.74 |
| 3760.00  | H       | -52.62 | -54.93       | 9.16    | -6.85 | -13.00 | -39.62 |
| 5640.00  | H       | ---    |              |         |       |        |        |
| 7520.00  | H       | ---    |              |         |       |        |        |
| 9400.00  | H       | ---    |              |         |       |        |        |
| 11280.00 | H       | ---    |              |         |       |        |        |
| 13160.00 | H       | ---    |              |         |       |        |        |
| 15040.00 | H       | ---    |              |         |       |        |        |
| 16920.00 | H       | ---    |              |         |       |        |        |
| 18800.00 | H       | ---    |              |         |       |        |        |

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |                    |                          |                   |
|-----------------------|--------------------|--------------------------|-------------------|
| ARFCN                 | :CH 18900 16QAM BW | Test Date                | :2014-11-20       |
|                       | 20 RB 1 0          |                          |                   |
| Operation Band        | :LTE B2            | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :1880 MHz          | Engineer                 | :Tin              |
| Operation Mode        | :TX MID            |                          |                   |
| EUT Pol.              | :E2 Plane          | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.    | Note    | EIRP   | SG           | Antenna | Cable | Limit  | Margin |
|----------|---------|--------|--------------|---------|-------|--------|--------|
|          |         |        | Output Level | Gain    | Loss  |        |        |
| MHz      | F/H/E/S | dBm    | dBm          | dBi     | dB    | dBm    | dB     |
| 90.14    | S       | -71.46 | -70.02       | -0.25   | -1.20 | -13.00 | -58.46 |
| 287.05   | S       | -71.53 | -73.08       | 3.38    | -1.83 | -13.00 | -58.53 |
| 473.29   | S       | -72.88 | -74.50       | 3.90    | -2.28 | -13.00 | -59.88 |
| 641.10   | S       | -66.88 | -68.10       | 3.89    | -2.67 | -13.00 | -53.88 |
| 770.11   | S       | -55.57 | -56.39       | 3.71    | -2.89 | -13.00 | -42.57 |
| 961.20   | S       | -67.08 | -66.40       | 2.68    | -3.35 | -13.00 | -54.08 |
| 3760.00  | H       | -57.10 | -59.41       | 9.16    | -6.85 | -13.00 | -44.10 |
| 5640.00  | H       | ---    |              |         |       |        |        |
| 7520.00  | H       | ---    |              |         |       |        |        |
| 9400.00  | H       | ---    |              |         |       |        |        |
| 11280.00 | H       | ---    |              |         |       |        |        |
| 13160.00 | H       | ---    |              |         |       |        |        |
| 15040.00 | H       | ---    |              |         |       |        |        |
| 16920.00 | H       | ---    |              |         |       |        |        |
| 18800.00 | H       | ---    |              |         |       |        |        |

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |                    |                          |                   |
|-----------------------|--------------------|--------------------------|-------------------|
| ARFCN                 | :CH 19100 16QAM BW | Test Date                | :2014-11-20       |
|                       | 20 RB 1 0          |                          |                   |
| Operation Band        | :LTE B2            | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :1900 MHz          | Engineer                 | :Tin              |
| Operation Mode        | :TX HIGH           |                          |                   |
| EUT Pol.              | :E2 Plane          | Measurement Antenna Pol. | :VERTICAL         |

| Freq.    | Note    | EIRP   | SG           | Antenna | Cable | Limit  | Margin |
|----------|---------|--------|--------------|---------|-------|--------|--------|
|          |         |        | Output Level | Gain    | Loss  |        |        |
| MHz      | F/H/E/S | dBm    | dBm          | dB      | dB    | dBm    | dB     |
| 32.91    | S       | -56.90 | -42.46       | -13.63  | -0.80 | -13.00 | -43.90 |
| 278.32   | S       | -72.83 | -74.52       | 3.49    | -1.80 | -13.00 | -59.83 |
| 337.49   | S       | -71.55 | -73.58       | 3.98    | -1.95 | -13.00 | -58.55 |
| 509.18   | S       | -71.20 | -72.77       | 3.95    | -2.38 | -13.00 | -58.20 |
| 769.14   | S       | -56.08 | -56.89       | 3.70    | -2.89 | -13.00 | -43.08 |
| 938.89   | S       | -66.19 | -66.25       | 3.38    | -3.32 | -13.00 | -53.19 |
| 3800.00  | H       | -53.87 | -56.17       | 9.18    | -6.88 | -13.00 | -40.87 |
| 5700.00  | H       | ---    |              |         |       |        |        |
| 7600.00  | H       | ---    |              |         |       |        |        |
| 9500.00  | H       | ---    |              |         |       |        |        |
| 11400.00 | H       | ---    |              |         |       |        |        |
| 13300.00 | H       | ---    |              |         |       |        |        |
| 15200.00 | H       | ---    |              |         |       |        |        |
| 17100.00 | H       | ---    |              |         |       |        |        |
| 19000.00 | H       | ---    |              |         |       |        |        |

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |                    |                          |                   |
|-----------------------|--------------------|--------------------------|-------------------|
| ARFCN                 | :CH 19100 16QAM BW | Test Date                | :2014-11-20       |
|                       | 20 RB 1 0          |                          |                   |
| Operation Band        | :LTE B2            | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :1900 MHz          | Engineer                 | :Tin              |
| Operation Mode        | :TX HIGH           |                          |                   |
| EUT Pol.              | :E2 Plane          | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.    | Note    | EIRP   | SG           | Antenna | Cable | Limit  | Margin |
|----------|---------|--------|--------------|---------|-------|--------|--------|
|          |         |        | Output Level | Gain    | Loss  |        |        |
| MHz      | F/H/E/S | dBm    | dBm          | dBi     | dB    | dBm    | dB     |
| 91.11    | S       | -71.62 | -70.10       | -0.33   | -1.20 | -13.00 | -58.62 |
| 287.05   | S       | -72.12 | -73.67       | 3.38    | -1.83 | -13.00 | -59.12 |
| 435.46   | S       | -73.34 | -75.06       | 3.89    | -2.18 | -13.00 | -60.34 |
| 606.18   | S       | -69.92 | -70.97       | 3.68    | -2.63 | -13.00 | -56.92 |
| 772.05   | S       | -54.66 | -55.47       | 3.71    | -2.89 | -13.00 | -41.66 |
| 946.65   | S       | -65.99 | -66.01       | 3.35    | -3.33 | -13.00 | -52.99 |
| 3800.00  | H       | -56.26 | -58.56       | 9.18    | -6.88 | -13.00 | -43.26 |
| 5700.00  | H       | ---    |              |         |       |        |        |
| 7600.00  | H       | ---    |              |         |       |        |        |
| 9500.00  | H       | ---    |              |         |       |        |        |
| 11400.00 | H       | ---    |              |         |       |        |        |
| 13300.00 | H       | ---    |              |         |       |        |        |
| 15200.00 | H       | ---    |              |         |       |        |        |
| 17100.00 | H       | ---    |              |         |       |        |        |
| 19000.00 | H       | ---    |              |         |       |        |        |

EIRP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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**Radiated Spurious Emission Measurement Result: 10 MHz BW LTE-Band 5(The Worst Case)**

|                       |                    |                          |                   |
|-----------------------|--------------------|--------------------------|-------------------|
| ARFCN                 | :CH 20450 16QAM BW | Test Date                | :2014-11-26       |
|                       | 10 RB 1 0          |                          |                   |
| Operation Band        | :LTE B5            | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :829 MHz           | Engineer                 | :Curry            |
| Operation Mode        | :TX LOW            |                          |                   |
| EUT Pol.              | :H Plane           | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | ERP    | SG           | Antenna | Cable | Limit  | Margin |
|---------|---------|--------|--------------|---------|-------|--------|--------|
|         |         |        | Output Level | Gain    | Loss  |        |        |
| MHz     | F/H/E/S | dBm    | dBm          | dBd     | dB    | dBm    | dB     |
| 31.94   | S       | -54.88 | -40.20       | -13.87  | -0.80 | -13.00 | -41.88 |
| 88.20   | S       | -72.79 | -70.98       | -0.65   | -1.17 | -13.00 | -59.79 |
| 320.03  | S       | -71.36 | -73.31       | 3.86    | -1.91 | -13.00 | -58.36 |
| 650.80  | S       | -66.77 | -68.03       | 3.94    | -2.68 | -13.00 | -53.77 |
| 771.08  | S       | -54.62 | -55.43       | 3.71    | -2.89 | -13.00 | -41.62 |
| 935.01  | S       | -66.46 | -66.55       | 3.40    | -3.31 | -13.00 | -53.46 |
| 1658.00 | H       | -59.35 | -58.45       | 3.53    | -4.43 | -13.00 | -46.35 |
| 2487.00 | H       | ---    |              |         |       |        |        |
| 3316.00 | H       | ---    |              |         |       |        |        |
| 4145.00 | H       | ---    |              |         |       |        |        |
| 4974.00 | H       | ---    |              |         |       |        |        |
| 5803.00 | H       | ---    |              |         |       |        |        |
| 6632.00 | H       | ---    |              |         |       |        |        |
| 7461.00 | H       | ---    |              |         |       |        |        |
| 8290.00 | H       | ---    |              |         |       |        |        |

$$\text{ERP(dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |                                 |                          |                   |
|-----------------------|---------------------------------|--------------------------|-------------------|
| ARFCN                 | :CH 20450 16QAM BW<br>10 RB 1 0 | Test Date                | :2014-11-26       |
| Operation Band        | :LTE B5                         | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :829 MHz                        | Engineer                 | :Curry            |
| Operation Mode        | :TX LOW                         |                          |                   |
| EUT Pol.              | :H Plane                        | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | ERP    | SG           | Antenna | Cable | Limit  | Margin |
|---------|---------|--------|--------------|---------|-------|--------|--------|
|         |         |        | Output Level | Gain    | Loss  |        |        |
| MHz     | F/H/E/S | dBm    | dBm          | dBd     | dB    | dBm    | dB     |
| 88.20   | S       | -69.27 | -67.46       | -0.65   | -1.17 | -13.00 | -56.27 |
| 252.13  | S       | -71.34 | -72.93       | 3.30    | -1.72 | -13.00 | -58.34 |
| 480.08  | S       | -73.08 | -74.69       | 3.91    | -2.30 | -13.00 | -60.08 |
| 642.07  | S       | -67.10 | -68.32       | 3.89    | -2.67 | -13.00 | -54.10 |
| 769.14  | S       | -55.45 | -56.27       | 3.70    | -2.89 | -13.00 | -42.45 |
| 954.41  | S       | -66.01 | -65.74       | 3.07    | -3.34 | -13.00 | -53.01 |
| 1658.00 | H       | -64.99 | -64.10       | 3.53    | -4.43 | -13.00 | -51.99 |
| 2487.00 | H       | ---    |              |         |       |        |        |
| 3316.00 | H       | ---    |              |         |       |        |        |
| 4145.00 | H       | ---    |              |         |       |        |        |
| 4974.00 | H       | ---    |              |         |       |        |        |
| 5803.00 | H       | ---    |              |         |       |        |        |
| 6632.00 | H       | ---    |              |         |       |        |        |
| 7461.00 | H       | ---    |              |         |       |        |        |
| 8290.00 | H       | ---    |              |         |       |        |        |

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |                    |                          |                   |
|-----------------------|--------------------|--------------------------|-------------------|
| ARFCN                 | :CH 20525 16QAM BW | Test Date                | :2014-11-26       |
|                       | 10 RB 1 0          |                          |                   |
| Operation Band        | :LTE B5            | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :836.5 MHz         | Engineer                 | :Curry            |
| Operation Mode        | :TX MID            |                          |                   |
| EUT Pol.              | :H Plane           | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | ERP    | SG           | Antenna | Cable | Limit  | Margin |
|---------|---------|--------|--------------|---------|-------|--------|--------|
|         |         |        | Output Level | Gain    | Loss  |        |        |
| MHz     | F/H/E/S | dBm    | dBm          | dBd     | dB    | dBm    | dB     |
| 31.94   | S       | -54.61 | -39.94       | -13.87  | -0.80 | -13.00 | -41.61 |
| 92.08   | S       | -71.48 | -69.88       | -0.41   | -1.20 | -13.00 | -58.48 |
| 312.27  | S       | -71.79 | -73.71       | 3.81    | -1.90 | -13.00 | -58.79 |
| 648.86  | S       | -66.85 | -68.10       | 3.93    | -2.68 | -13.00 | -53.85 |
| 770.11  | S       | -57.30 | -58.12       | 3.71    | -2.89 | -13.00 | -44.30 |
| 927.25  | S       | -65.96 | -66.09       | 3.44    | -3.30 | -13.00 | -52.96 |
| 1673.00 | H       | -63.42 | -62.46       | 3.49    | -4.45 | -13.00 | -50.42 |
| 2509.50 | H       | ---    |              |         |       |        |        |
| 3346.00 | H       | ---    |              |         |       |        |        |
| 4182.50 | H       | ---    |              |         |       |        |        |
| 5019.00 | H       | ---    |              |         |       |        |        |
| 5855.50 | H       | ---    |              |         |       |        |        |
| 6692.00 | H       | ---    |              |         |       |        |        |
| 7528.50 | H       | ---    |              |         |       |        |        |
| 8365.00 | H       | ---    |              |         |       |        |        |

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |                    |                          |                   |
|-----------------------|--------------------|--------------------------|-------------------|
| ARFCN                 | :CH 20525 16QAM BW | Test Date                | :2014-11-26       |
|                       | 10 RB 1 0          |                          |                   |
| Operation Band        | :LTE B5            | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :836.5 MHz         | Engineer                 | :Curry            |
| Operation Mode        | :TX MID            |                          |                   |
| EUT Pol.              | :H Plane           | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | ERP    | SG           | Antenna | Cable | Limit  | Margin |
|---------|---------|--------|--------------|---------|-------|--------|--------|
|         |         |        | Output Level | Gain    | Loss  |        |        |
| MHz     | F/H/E/S | dBm    | dBm          | dBd     | dB    | dBm    | dB     |
| 87.23   | S       | -68.85 | -66.83       | -0.88   | -1.15 | -13.00 | -55.85 |
| 247.28  | S       | -71.14 | -72.76       | 3.32    | -1.70 | -13.00 | -58.14 |
| 491.72  | S       | -72.44 | -74.05       | 3.94    | -2.33 | -13.00 | -59.44 |
| 646.92  | S       | -66.53 | -67.77       | 3.92    | -2.68 | -13.00 | -53.53 |
| 770.11  | S       | -57.50 | -58.31       | 3.71    | -2.89 | -13.00 | -44.50 |
| 937.92  | S       | -66.77 | -66.84       | 3.39    | -3.32 | -13.00 | -53.77 |
| 1673.00 | H       | -64.63 | -63.67       | 3.49    | -4.45 | -13.00 | -51.63 |
| 2509.50 | H       | ---    |              |         |       |        |        |
| 3346.00 | H       | ---    |              |         |       |        |        |
| 4182.50 | H       | ---    |              |         |       |        |        |
| 5019.00 | H       | ---    |              |         |       |        |        |
| 5855.50 | H       | ---    |              |         |       |        |        |
| 6692.00 | H       | ---    |              |         |       |        |        |
| 7528.50 | H       | ---    |              |         |       |        |        |
| 8365.00 | H       | ---    |              |         |       |        |        |

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |                                 |                          |                   |
|-----------------------|---------------------------------|--------------------------|-------------------|
| ARFCN                 | :CH 20600 16QAM BW<br>10 RB 1 0 | Test Date                | :2014-11-26       |
| Operation Band        | :LTE B5                         | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :844 MHz                        | Engineer                 | :Curry            |
| Operation Mode        | :TX HIGH                        |                          |                   |
| EUT Pol.              | :H Plane                        | Measurement Antenna Pol. | :VERTICAL         |

| Freq.   | Note    | ERP    | SG           | Antenna | Cable | Limit  | Margin |
|---------|---------|--------|--------------|---------|-------|--------|--------|
|         |         |        | Output Level | Gain    | Loss  |        |        |
| MHz     | F/H/E/S | dBm    | dBm          | dBd     | dB    | dBm    | dB     |
| 31.94   | S       | -53.94 | -39.27       | -13.87  | -0.80 | -13.00 | -40.94 |
| 91.11   | S       | -72.74 | -71.21       | -0.33   | -1.20 | -13.00 | -59.74 |
| 340.40  | S       | -71.22 | -73.27       | 4.00    | -1.96 | -13.00 | -58.22 |
| 650.80  | S       | -66.60 | -67.86       | 3.94    | -2.68 | -13.00 | -53.60 |
| 772.05  | S       | -55.56 | -56.38       | 3.71    | -2.89 | -13.00 | -42.56 |
| 930.16  | S       | -66.75 | -66.87       | 3.42    | -3.31 | -13.00 | -53.75 |
| 1688.00 | H       | -62.83 | -61.82       | 3.46    | -4.47 | -13.00 | -49.83 |
| 2532.00 | H       | ---    |              |         |       |        |        |
| 3376.00 | H       | ---    |              |         |       |        |        |
| 4220.00 | H       | ---    |              |         |       |        |        |
| 5064.00 | H       | ---    |              |         |       |        |        |
| 5908.00 | H       | ---    |              |         |       |        |        |
| 6752.00 | H       | ---    |              |         |       |        |        |
| 7596.00 | H       | ---    |              |         |       |        |        |
| 8440.00 | H       | ---    |              |         |       |        |        |

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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|                       |                    |                          |                   |
|-----------------------|--------------------|--------------------------|-------------------|
| ARFCN                 | :CH 20600 16QAM BW | Test Date                | :2014-11-26       |
|                       | 10 RB 1 0          |                          |                   |
| Operation Band        | :LTE B5            | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :844 MHz           | Engineer                 | :Curry            |
| Operation Mode        | :TX HIGH           |                          |                   |
| EUT Pol.              | :H Plane           | Measurement Antenna Pol. | :HORIZONTAL       |

| Freq.   | Note    | ERP    | SG           | Antenna | Cable | Limit  | Margin |
|---------|---------|--------|--------------|---------|-------|--------|--------|
|         |         |        | Output Level | Gain    | Loss  |        |        |
| MHz     | F/H/E/S | dBm    | dBm          | dBd     | dB    | dBm    | dB     |
| 88.20   | S       | -70.04 | -68.22       | -0.65   | -1.17 | -13.00 | -57.04 |
| 260.86  | S       | -72.11 | -73.55       | 3.19    | -1.75 | -13.00 | -59.11 |
| 517.91  | S       | -71.70 | -73.23       | 3.93    | -2.40 | -13.00 | -58.70 |
| 650.80  | S       | -66.79 | -68.04       | 3.94    | -2.68 | -13.00 | -53.79 |
| 772.05  | S       | -52.45 | -53.27       | 3.71    | -2.89 | -13.00 | -39.45 |
| 940.83  | S       | -66.36 | -66.41       | 3.38    | -3.32 | -13.00 | -53.36 |
| 1688.00 | H       | -64.83 | -63.82       | 3.46    | -4.47 | -13.00 | -51.83 |
| 2532.00 | H       | ---    |              |         |       |        |        |
| 3376.00 | H       | ---    |              |         |       |        |        |
| 4220.00 | H       | ---    |              |         |       |        |        |
| 5064.00 | H       | ---    |              |         |       |        |        |
| 5908.00 | H       | ---    |              |         |       |        |        |
| 6752.00 | H       | ---    |              |         |       |        |        |
| 7596.00 | H       | ---    |              |         |       |        |        |
| 8440.00 | H       | ---    |              |         |       |        |        |

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

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## 11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

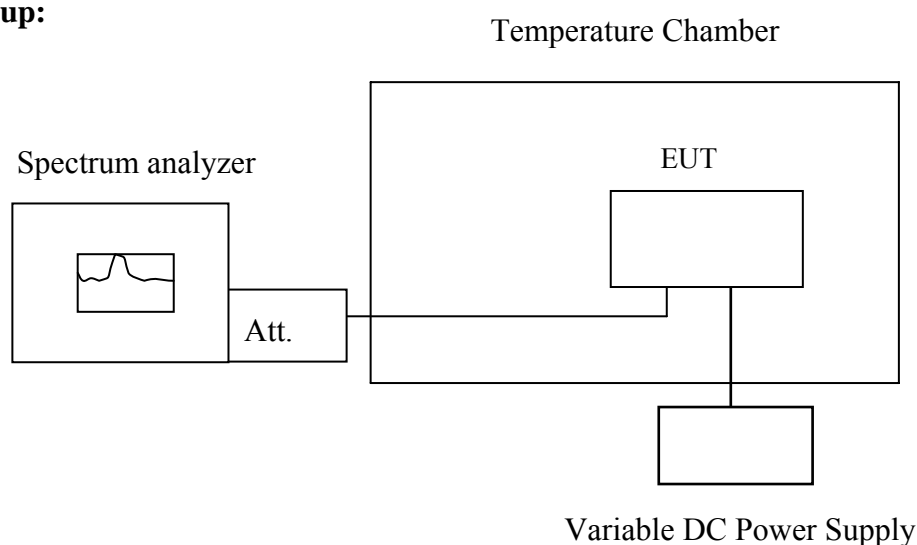
### 11.1. Standard Applicable:

According to FCC §2.1055(a) (1)

Frequency Tolerance:  $\pm 2.5$ ppm for 850MHz band

$\pm 2.5$ ppm for 1900MHz band

### 11.2. Test Set-up:



**Note:** Measurement setup for testing on Antenna connector

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### 11.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

### 11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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## 11.5. Measurement Result:

| Reference Frequency: GPRS 850 Mid Channel 836.6 MHz |                 |            |            |            |
|---|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz                             |                 |            |            |            |
| Power Supply  | Environment     | Frequency  | Delta (Hz) | Limit (Hz) |
| Vdc   | Temperature ( ) | (MHz)      |            |            |
| 3.8   | 50              | 836.599964 | -17        | 2091       |
| 3.8   | 40              | 836.599972 | -9         | 2091       |
| 3.8   | 30              | 836.599984 | 3          | 2091       |
| 3.8   | 20              | 836.599981 | 0          | 2091       |
| 3.8   | 10              | 836.599986 | 5          | 2091       |
| 3.8   | 0               | 836.599989 | 8          | 2091       |
| 3.8   | -10             | 836.599984 | 3          | 2091       |
| 3.8   | -20             | 836.599981 | 0          | 2091       |
| 3.8   | -30             | 836.599984 | 3          | 2091       |

| Reference Frequency: GPRS 1900 Mid Channel 1880 MHz |                 |             |            |            |
|---|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = 4700 Hz                        |                 |             |            |            |
| Power Supply  | Environment     | Frequency   | Delta (Hz) | Limit (Hz) |
| Vdc   | Temperature ( ) | (MHz)       |            |            |
| 3.8   | 50              | 1879.999969 | -15        | 4700       |
| 3.8   | 40              | 1879.999967 | -17        | 4700       |
| 3.8   | 30              | 1879.999972 | -12        | 4700       |
| 3.8   | 20              | 1879.999984 | 0          | 4700       |
| 3.8   | 10              | 1879.999975 | -9         | 4700       |
| 3.8   | 0               | 1879.999982 | -2         | 4700       |
| 3.8   | -10             | 1879.999987 | 3          | 4700       |
| 3.8   | -20             | 1879.999985 | 1          | 4700       |
| 3.8   | -30             | 1879.999978 | -6         | 4700       |

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| Reference Frequency: WCDMA V Mid Channel 836.6 MHz |                 |            |            |            |
|--|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz                            |                 |            |            |            |
| Power Supply                                       | Environment     | Frequency  | Delta (Hz) | Limit (Hz) |
| Vdc  | Temperature ( ) | (MHz)      |            |            |
| 3.8  | 50              | 836.599981 | -38        | 2091       |
| 3.8  | 40              | 836.599985 | -34        | 2091       |
| 3.8  | 30              | 836.599992 | -27        | 2091       |
| 3.8  | 20              | 836.600019 | 0          | 2091       |
| 3.8  | 10              | 836.599994 | -25        | 2091       |
| 3.8  | 0               | 836.599995 | -24        | 2091       |
| 3.8  | -10             | 836.600009 | -10        | 2091       |
| 3.8  | -20             | 836.600015 | -4         | 2091       |
| 3.8  | -30             | 836.600022 | 3          | 2091       |

| Reference Frequency: WCDMA II Mid Channel 1880 |                 |             |            |            |
|--|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz                        |                 |             |            |            |
| Power Supply                                   | Environment     | Frequency   | Delta (Hz) | Limit (Hz) |
| Vdc  | Temperature ( ) | (MHz)       |            |            |
| 3.8  | 50              | 1879.999981 | -11        | 4700       |
| 3.8  | 40              | 1879.999984 | -8         | 4700       |
| 3.8  | 30              | 1879.999985 | -7         | 4700       |
| 3.8  | 20              | 1879.999992 | 0          | 4700       |
| 3.8  | 10              | 1879.999985 | -7         | 4700       |
| 3.8  | 0               | 1879.999982 | -10        | 4700       |
| 3.8  | -10             | 1879.999979 | -13        | 4700       |
| 3.8  | -20             | 1879.999975 | -17        | 4700       |
| 3.8  | -30             | 1879.999972 | -20        | 4700       |

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| Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 1.4M QPSK CH 18900 |                 |             |            |            |
|---|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz   |                 |             |            |            |
| Power Supply  | Environment     | Frequency   | Delta (Hz) | Limit (Hz) |
| Vdc   | Temperature ( ) | (MHz)       |            |            |
| 3.8   | -30             | 1880.000011 | 9.00       | 4700       |
| 3.8   | -20             | 1880.000003 | 1.00       | 4700       |
| 3.8   | -10             | 1879.999998 | -4.00      | 4700       |
| 3.8   | 0               | 1879.999997 | -5.00      | 4700       |
| 3.8   | 10              | 1880.000002 | 0.00       | 4700       |
| 3.8   | 20              | 1880.000002 | 0.00       | 4700       |
| 3.8   | 30              | 1879.999997 | -5.00      | 4700       |
| 3.8   | 40              | 1879.999996 | -6.00      | 4700       |
| 3.8   | 50              | 1880.000002 | 0.00       | 4700       |

| Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 1.4M 16QAM CH 18900 |                 |             |            |            |
|--|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz  |                 |             |            |            |
| Power Supply   | Environment     | Frequency   | Delta (Hz) | Limit (Hz) |
| Vdc  | Temperature ( ) | (MHz)       |            |            |
| 3.8  | -30             | 1879.999998 | -4.00      | 4700       |
| 3.8  | -20             | 1880.000004 | 2.00       | 4700       |
| 3.8  | -10             | 1880.000004 | 2.00       | 4700       |
| 3.8  | 0               | 1879.999998 | -4.00      | 4700       |
| 3.8  | 10              | 1880.000004 | 2.00       | 4700       |
| 3.8  | 20              | 1880.000002 | 0.00       | 4700       |
| 3.8  | 30              | 1880.000005 | 3.00       | 4700       |
| 3.8  | 40              | 1879.999998 | -4.00      | 4700       |
| 3.8  | 50              | 1879.999995 | -7.00      | 4700       |

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| Reference Frequency:    LTE B2 Mid Channel    1880.0    MHz    3M QPSK CH 18900 |                 |             |            |            |
|---|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm =    Hz  |                 |             |            |            |
| Power Supply  | Environment     | Frequency   | Delta (Hz) | Limit (Hz) |
| Vdc   | Temperature ( ) | (MHz)       |            |            |
| 3.8   | -30             | 1879.999994 | -9.00      | 4700       |
| 3.8   | -20             | 1879.999998 | -5.00      | 4700       |
| 3.8   | -10             | 1880.000003 | 0.00       | 4700       |
| 3.8   | 0               | 1879.999996 | -7.00      | 4700       |
| 3.8   | 10              | 1880.000002 | -1.00      | 4700       |
| 3.8   | 20              | 1880.000003 | 0.00       | 4700       |
| 3.8   | 30              | 1879.999997 | -6.00      | 4700       |
| 3.8   | 40              | 1879.999993 | -10.00     | 4700       |
| 3.8   | 50              | 1880.000009 | 6.00       | 4700       |

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| Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 3M 16QAM CH 18900 |                 |             |            |            |
|--|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz  |                 |             |            |            |
| Power Supply   | Environment     | Frequency   | Delta (Hz) | Limit (Hz) |
| Vdc  | Temperature ( ) | (MHz)       |            |            |
| 3.8  | -30             | 1880.000005 | 3.00       | 4700       |
| 3.8  | -20             | 1880.000003 | 1.00       | 4700       |
| 3.8  | -10             | 1880.000007 | 5.00       | 4700       |
| 3.8  | 0               | 1879.999995 | -7.00      | 4700       |
| 3.8  | 10              | 1879.999996 | -6.00      | 4700       |
| 3.8  | 20              | 1880.000002 | 0.00       | 4700       |
| 3.8  | 30              | 1880.000005 | 3.00       | 4700       |
| 3.8  | 40              | 1879.999992 | -10.00     | 4700       |
| 3.8  | 50              | 1880.000003 | 1.00       | 4700       |

| Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 5M QPSK CH 18900 |                 |             |            |            |
|---|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz   |                 |             |            |            |
| Power Supply  | Environment     | Frequency   | Delta (Hz) | Limit (Hz) |
| Vdc   | Temperature ( ) | (MHz)       |            |            |
| 3.8   | -30             | 1880.000004 | 1.00       | 4700       |
| 3.8   | -20             | 1880.000009 | 6.00       | 4700       |
| 3.8   | -10             | 1880.000003 | 0.00       | 4700       |
| 3.8   | 0               | 1880.000006 | 3.00       | 4700       |
| 3.8   | 10              | 1879.999997 | -6.00      | 4700       |
| 3.8   | 20              | 1880.000003 | 0.00       | 4700       |
| 3.8   | 30              | 1880.000005 | 2.00       | 4700       |
| 3.8   | 40              | 1880.000007 | 4.00       | 4700       |
| 3.8   | 50              | 1880.000002 | -1.00      | 4700       |

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| Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 5M 16QAM CH 18900 |                 |             |            |            |
|--|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz  |                 |             |            |            |
| Power Supply   | Environment     | Frequency   | Delta (Hz) | Limit (Hz) |
| Vdc  | Temperature ( ) | (MHz)       |            |            |
| 3.8  | -30             | 1879.999997 | -8.00      | 4700       |
| 3.8  | -20             | 1879.999996 | -9.00      | 4700       |
| 3.8  | -10             | 1880.000001 | -4.00      | 4700       |
| 3.8  | 0               | 1880.000003 | -2.00      | 4700       |
| 3.8  | 10              | 1880.000003 | -2.00      | 4700       |
| 3.8  | 20              | 1880.000005 | 0.00       | 4700       |
| 3.8  | 30              | 1879.999997 | -8.00      | 4700       |
| 3.8  | 40              | 1879.999996 | -9.00      | 4700       |
| 3.8  | 50              | 1880.000000 | -5.00      | 4700       |

| Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 10M QPSK CH 18900 |                 |             |            |            |
|--|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz  |                 |             |            |            |
| Power Supply   | Environment     | Frequency   | Delta (Hz) | Limit (Hz) |
| Vdc  | Temperature ( ) | (MHz)       |            |            |
| 3.8  | -30             | 1880.000003 | 1.00       | 4700       |
| 3.8  | -20             | 1880.000002 | 0.00       | 4700       |
| 3.8  | -10             | 1880.000005 | 3.00       | 4700       |
| 3.8  | 0               | 1879.999998 | -4.00      | 4700       |
| 3.8  | 10              | 1879.999996 | -6.00      | 4700       |
| 3.8  | 20              | 1880.000002 | 0.00       | 4700       |
| 3.8  | 30              | 1880.000003 | 1.00       | 4700       |
| 3.8  | 40              | 1879.999996 | -6.00      | 4700       |
| 3.8  | 50              | 1879.999998 | -4.00      | 4700       |

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| Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 10M 16QAM CH 18900 |                 |             |            |            |
|---|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz   |                 |             |            |            |
| Power Supply  | Environment     | Frequency   | Delta (Hz) | Limit (Hz) |
| Vdc   | Temperature ( ) | (MHz)       |            |            |
| 3.8   | -30             | 1880.000010 | 7.00       | 4700       |
| 3.8   | -20             | 1879.999998 | -5.00      | 4700       |
| 3.8   | -10             | 1880.000003 | 0.00       | 4700       |
| 3.8   | 0               | 1880.000005 | 2.00       | 4700       |
| 3.8   | 10              | 1880.000004 | 1.00       | 4700       |
| 3.8   | 20              | 1880.000003 | 0.00       | 4700       |
| 3.8   | 30              | 1879.999997 | -6.00      | 4700       |
| 3.8   | 40              | 1879.999996 | -7.00      | 4700       |
| 3.8   | 50              | 1880.000002 | -1.00      | 4700       |

| Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 15M QPSK CH 18900 |                 |             |            |            |
|--|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz  |                 |             |            |            |
| Power Supply   | Environment     | Frequency   | Delta (Hz) | Limit (Hz) |
| Vdc  | Temperature ( ) | (MHz)       |            |            |
| 3.8  | -30             | 1880.000007 | 3.00       | 4700       |
| 3.8  | -20             | 1880.000005 | 1.00       | 4700       |
| 3.8  | -10             | 1879.999993 | -11.00     | 4700       |
| 3.8  | 0               | 1879.999997 | -7.00      | 4700       |
| 3.8  | 10              | 1880.000002 | -2.00      | 4700       |
| 3.8  | 20              | 1880.000004 | 0.00       | 4700       |
| 3.8  | 30              | 1880.000003 | -1.00      | 4700       |
| 3.8  | 40              | 1880.000004 | 0.00       | 4700       |
| 3.8  | 50              | 1879.999997 | -7.00      | 4700       |

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| Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 15M 16QAM CH 18900 |                 |             |            |            |
|---|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz   |                 |             |            |            |
| Power Supply  | Environment     | Frequency   | Delta (Hz) | Limit (Hz) |
| Vdc   | Temperature ( ) | (MHz)       |            |            |
| 3.8   | -30             | 1880.000007 | 3.00       | 4700       |
| 3.8   | -20             | 1880.000003 | -1.00      | 4700       |
| 3.8   | -10             | 1879.999995 | -9.00      | 4700       |
| 3.8   | 0               | 1879.999996 | -8.00      | 4700       |
| 3.8   | 10              | 1879.999994 | -10.00     | 4700       |
| 3.8   | 20              | 1880.000004 | 0.00       | 4700       |
| 3.8   | 30              | 1880.000003 | -1.00      | 4700       |
| 3.8   | 40              | 1880.000004 | 0.00       | 4700       |
| 3.8   | 50              | 1879.999998 | -6.00      | 4700       |

| Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 20M QPSK CH 18900 |                 |             |            |            |
|--|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz  |                 |             |            |            |
| Power Supply   | Environment     | Frequency   | Delta (Hz) | Limit (Hz) |
| Vdc  | Temperature ( ) | (MHz)       |            |            |
| 3.8  | -30             | 1880.000004 | 1.00       | 4700       |
| 3.8  | -20             | 1880.000003 | 0.00       | 4700       |
| 3.8  | -10             | 1880.000005 | 2.00       | 4700       |
| 3.8  | 0               | 1879.999996 | -7.00      | 4700       |
| 3.8  | 10              | 1880.000006 | 3.00       | 4700       |
| 3.8  | 20              | 1880.000003 | 0.00       | 4700       |
| 3.8  | 30              | 1880.000004 | 1.00       | 4700       |
| 3.8  | 40              | 1879.999996 | -7.00      | 4700       |
| 3.8  | 50              | 1879.999996 | -7.00      | 4700       |

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| Reference Frequency: LTE B2 Mid Channel 1880.0 MHz 20M 16QAM CH 18900 |                 |             |            |            |
|---|-----------------|-------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz   |                 |             |            |            |
| Power Supply  | Environment     | Frequency   | Delta (Hz) | Limit (Hz) |
| Vdc   | Temperature ( ) | (MHz)       |            |            |
| 3.8   | -30             | 1880.000010 | 7.00       | 4700       |
| 3.8   | -20             | 1880.000008 | 5.00       | 4700       |
| 3.8   | -10             | 1880.000003 | 0.00       | 4700       |
| 3.8   | 0               | 1879.999998 | -5.00      | 4700       |
| 3.8   | 10              | 1879.999997 | -6.00      | 4700       |
| 3.8   | 20              | 1880.000003 | 0.00       | 4700       |
| 3.8   | 30              | 1880.000004 | 1.00       | 4700       |
| 3.8   | 40              | 1880.000003 | 0.00       | 4700       |
| 3.8   | 50              | 1879.999998 | -5.00      | 4700       |

| Reference Frequency: LTE B5 Mid Channel 836.5 MHz 1.4M QPSK CH 20525 |                 |            |            |            |
|--|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz  |                 |            |            |            |
| Power Supply   | Environment     | Frequency  | Delta (Hz) | Limit (Hz) |
| Vdc  | Temperature ( ) | (MHz)      |            |            |
| 3.8  | -30             | 836.500012 | 9.00       | 2091       |
| 3.8  | -20             | 836.500006 | 3.00       | 2091       |
| 3.8  | -10             | 836.500008 | 5.00       | 2091       |
| 3.8  | 0               | 836.500009 | 6.00       | 2091       |
| 3.8  | 10              | 836.500005 | 2.00       | 2091       |
| 3.8  | 20              | 836.500003 | 0.00       | 2091       |
| 3.8  | 30              | 836.500002 | -1.00      | 2091       |
| 3.8  | 40              | 836.499995 | -8.00      | 2091       |
| 3.8  | 50              | 836.499993 | -10.00     | 2091       |

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| Reference Frequency:    |                 | LTE B5 Mid Channel | 836.5      | MHz        | 1.4M 16QAM CH 20525 |
|-------------------------|-----------------|--------------------|------------|------------|---------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                     |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                     |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                     |
| 3.8                     | -30             | 836.500009         | 4.00       | 2091       |                     |
| 3.8                     | -20             | 836.500006         | 1.00       | 2091       |                     |
| 3.8                     | -10             | 836.500004         | -1.00      | 2091       |                     |
| 3.8                     | 0               | 836.500009         | 4.00       | 2091       |                     |
| 3.8                     | 10              | 836.500003         | -2.00      | 2091       |                     |
| 3.8                     | 20              | 836.500005         | 0.00       | 2091       |                     |
| 3.8                     | 30              | 836.499997         | -8.00      | 2091       |                     |
| 3.8                     | 40              | 836.499998         | -7.00      | 2091       |                     |
| 3.8                     | 50              | 836.499993         | -12.00     | 2091       |                     |

| Reference Frequency:    |                 | LTE B5 Mid Channel | 836.5      | MHz        | 3M QPSK CH 20525 |
|-------------------------|-----------------|--------------------|------------|------------|------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                  |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                  |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                  |
| 3.8                     | -30             | 836.500011         | 14.00      | 2091       |                  |
| 3.8                     | -20             | 836.500006         | 9.00       | 2091       |                  |
| 3.8                     | -10             | 836.500003         | 6.00       | 2091       |                  |
| 3.8                     | 0               | 836.500005         | 8.00       | 2091       |                  |
| 3.8                     | 10              | 836.500009         | 12.00      | 2091       |                  |
| 3.8                     | 20              | 836.499997         | 0.00       | 2091       |                  |
| 3.8                     | 30              | 836.499995         | -2.00      | 2091       |                  |
| 3.8                     | 40              | 836.499996         | -1.00      | 2091       |                  |
| 3.8                     | 50              | 836.499992         | -5.00      | 2091       |                  |

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| Reference Frequency: LTE B5 Mid Channel 836.5 MHz 3M 16QAM CH 20525 |                 |            |            |            |
|---|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz   |                 |            |            |            |
| Power Supply  | Environment     | Frequency  | Delta (Hz) | Limit (Hz) |
| Vdc   | Temperature ( ) | (MHz)      |            |            |
| 3.8   | -30             | 836.500010 | 12.00      | 2091       |
| 3.8   | -20             | 836.500009 | 11.00      | 2091       |
| 3.8   | -10             | 836.500003 | 5.00       | 2091       |
| 3.8   | 0               | 836.500004 | 6.00       | 2091       |
| 3.8   | 10              | 836.500006 | 8.00       | 2091       |
| 3.8   | 20              | 836.499998 | 0.00       | 2091       |
| 3.8   | 30              | 836.499994 | -4.00      | 2091       |
| 3.8   | 40              | 836.499992 | -6.00      | 2091       |
| 3.8   | 50              | 836.499993 | -5.00      | 2091       |

| Reference Frequency: LTE B5 Mid Channel 836.5 MHz 5M QPSK CH 20525 |                 |            |            |            |
|--|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz  |                 |            |            |            |
| Power Supply   | Environment     | Frequency  | Delta (Hz) | Limit (Hz) |
| Vdc  | Temperature ( ) | (MHz)      |            |            |
| 3.8  | -30             | 836.500007 | 9.00       | 2091       |
| 3.8  | -20             | 836.500010 | 12.00      | 2091       |
| 3.8  | -10             | 836.500006 | 8.00       | 2091       |
| 3.8  | 0               | 836.500003 | 5.00       | 2091       |
| 3.8  | 10              | 836.500005 | 7.00       | 2091       |
| 3.8  | 20              | 836.499998 | 0.00       | 2091       |
| 3.8  | 30              | 836.499994 | -4.00      | 2091       |
| 3.8  | 40              | 836.499996 | -2.00      | 2091       |
| 3.8  | 50              | 836.499992 | -6.00      | 2091       |

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| Reference Frequency:    |                 | LTE B5 Mid Channel | 836.5      | MHz        | 5M 16QAM CH<br>20525 |
|-------------------------|-----------------|--------------------|------------|------------|----------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                      |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                      |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                      |
| 3.8                     | -30             | 836.500006         | 4.00       | 2091       |                      |
| 3.8                     | -20             | 836.500011         | 9.00       | 2091       |                      |
| 3.8                     | -10             | 836.500015         | 13.00      | 2091       |                      |
| 3.8                     | 0               | 836.500008         | 6.00       | 2091       |                      |
| 3.8                     | 10              | 836.500005         | 3.00       | 2091       |                      |
| 3.8                     | 20              | 836.500002         | 0.00       | 2091       |                      |
| 3.8                     | 30              | 836.499997         | -5.00      | 2091       |                      |
| 3.8                     | 40              | 836.499994         | -8.00      | 2091       |                      |
| 3.8                     | 50              | 836.499993         | -9.00      | 2091       |                      |

| Reference Frequency:    |                 | LTE B5 Mid Channel | 836.5      | MHz        | 10M QPSK CH<br>20525 |
|-------------------------|-----------------|--------------------|------------|------------|----------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                      |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                      |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                      |
| 3.8                     | -30             | 836.500008         | 2.00       | 2091       |                      |
| 3.8                     | -20             | 836.500013         | 7.00       | 2091       |                      |
| 3.8                     | -10             | 836.500010         | 4.00       | 2091       |                      |
| 3.8                     | 0               | 836.500009         | 3.00       | 2091       |                      |
| 3.8                     | 10              | 836.500006         | 0.00       | 2091       |                      |
| 3.8                     | 20              | 836.500006         | 0.00       | 2091       |                      |
| 3.8                     | 30              | 836.500004         | -2.00      | 2091       |                      |
| 3.8                     | 40              | 836.499994         | -12.00     | 2091       |                      |
| 3.8                     | 50              | 836.499995         | -11.00     | 2091       |                      |

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| Reference Frequency:    |                    | LTE B5 Mid Channel | 836.5      | MHz        | 10M 16QAM CH<br>20525 |
|-------------------------|--------------------|--------------------|------------|------------|-----------------------|
| Limit: +/- 2.5 ppm = Hz |                    |                    |            |            |                       |
| Power Supply            | Environment        | Frequency          | Delta (Hz) | Limit (Hz) |                       |
| Vdc                     | Temperature<br>( ) | (MHz)              |            |            |                       |
| 3.8                     | -30                | 836.500010         | 12.00      | 2091       |                       |
| 3.8                     | -20                | 836.500007         | 9.00       | 2091       |                       |
| 3.8                     | -10                | 836.500003         | 5.00       | 2091       |                       |
| 3.8                     | 0                  | 836.500002         | 4.00       | 2091       |                       |
| 3.8                     | 10                 | 836.499997         | -1.00      | 2091       |                       |
| 3.8                     | 20                 | 836.499998         | 0.00       | 2091       |                       |
| 3.8                     | 30                 | 836.499992         | -6.00      | 2091       |                       |
| 3.8                     | 40                 | 836.499996         | -2.00      | 2091       |                       |
| 3.8                     | 50                 | 836.499994         | -4.00      | 2091       |                       |

**Note: The battery is rated 3.8V dc.**

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## 12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

### 12.1. Standard Applicable:

According to FCC §2.1055(d) (2)

Frequency Tolerance:  $\pm 2.5$ ppm for 850MHz band

$\pm 2.5$ ppm for 1900MHz band

### 12.2. Test Set-up:

Refer to section 11.2 in this report

### 12.3. Measurement Procedure:

Set chamber temperature to 25 °C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ( $\pm 15\%$ ) and endpoint as declared by the manufacturer, record the maximum frequency change.

### 12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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## 12.5. Measurement Result:

### GPRS850

| Reference Frequency: GPRS 850 Mid Channel 836.6 MHz |                 |           |            |            |
|---|-----------------|-----------|------------|------------|
| Limit: +/- 2.5 ppm = Hz                             |                 |           |            |            |
| Power Supply  | Environment     | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc   | Temperature ( ) | (MHz)     |            |            |
| 4.35  | 25              | 836599984 | 3          | 2091       |
| 3.8   | 25              | 836599981 | 0          | 2091       |
| 3.4   | 25              | 836599968 | -13        | 2091       |
| 2.9<br>(End point)                                  | 25              | 836599929 | -52        | 2091       |

### GPRS1900

| Reference Frequency: GPRS 1900 Mid Channel 1880 MHz |                 |            |            |            |
|---|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz                             |                 |            |            |            |
| Power Supply  | Environment     | Frequency  | Delta (Hz) | Limit (Hz) |
| Vdc   | Temperature ( ) | (MHz)      |            |            |
| 4.35  | 25              | 1879999978 | -6         | 4700       |
| 3.8   | 25              | 1879999984 | 0          | 4700       |
| 3.4   | 25              | 1879999983 | -1         | 4700       |
| 2.9<br>(End point)                                  | 25              | 1879999941 | -43        | 4700       |

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## WCDMA II

| Reference Frequency: WCDMA II Mid Channel 1880 MHz |                 |            |            |            |
|--|-----------------|------------|------------|------------|
| Limit: +/- 2.5 ppm = Hz                            |                 |            |            |            |
| Power Supply                                       | Environment     | Frequency  | Delta (Hz) | Limit (Hz) |
| Vdc  | Temperature ( ) | (MHz)      |            |            |
| 4.35   | 25              | 1879999994 | 2          | 4700       |
| 3.8  | 25              | 1879999992 | 0          | 4700       |
| 3.4  | 25              | 1879999985 | -7         | 4700       |
| 2.9<br>(End point)                                 | 25              | 1879999950 | -42        | 4700       |

## WCDMA V

| Reference Frequency: WCDMA V Mid Channel 836.6 MHz |                 |           |            |            |
|--|-----------------|-----------|------------|------------|
| Limit: +/- 2.5 ppm = Hz                            |                 |           |            |            |
| Power Supply                                       | Environment     | Frequency | Delta (Hz) | Limit (Hz) |
| Vdc  | Temperature ( ) | (MHz)     |            |            |
| 4.4  | 25              | 836600025 | 6          | 2091       |
| 3.8  | 25              | 836600019 | 0          | 2091       |
| 3.4  | 25              | 836599995 | -24        | 2091       |
| 2.9<br>(End point)                                 | 25              | 836599957 | -62        | 2091       |

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| Reference Frequency:    |                 | LTE B2 Mid Channel | 1880.0     | MHz        | 1.4M QPSK CH<br>18900 |
|-------------------------|-----------------|--------------------|------------|------------|-----------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                       |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                       |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                       |
| 4.35                    | 25              | 1880.000004        | 2.00       | 4700       |                       |
| 3.8                     | 25              | 1880.000002        | 0.00       | 4700       |                       |
| 3.40                    | 25              | 1880.000001        | -1.00      | 4700       |                       |
| 2.9<br>(End Point)      | 25              | 1880.000042        | 40.00      | 4700       |                       |

| Reference Frequency:    |                 | LTE B2 Mid Channel | 1880.0     | MHz        | 1.4M 16 QAM CH<br>18900 |
|-------------------------|-----------------|--------------------|------------|------------|-------------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                         |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                         |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                         |
| 4.35                    | 25              | 1880.000004        | 2.00       | 4700       |                         |
| 3.8                     | 25              | 1880.000002        | 0.00       | 4700       |                         |
| 3.40                    | 25              | 1880.000002        | 0.00       | 4700       |                         |
| 2.9<br>(End Point)      | 25              | 1880.000034        | 32.00      | 4700       |                         |

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| Reference Frequency:    |                 | LTE B2 Mid Channel | 1880.0     | MHz        | 3M QPSK CH<br>18900 |
|-------------------------|-----------------|--------------------|------------|------------|---------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                     |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                     |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                     |
| 4.35                    | 25              | 1880.000005        | 2.00       | 4700       |                     |
| 3.8                     | 25              | 1880.000003        | 0.00       | 4700       |                     |
| 3.40                    | 25              | 1880.000004        | 1.00       | 4700       |                     |
| 2.9<br>(End Point)      | 25              | 1880.000044        | 41.00      | 4700       |                     |

| Reference Frequency:    |                 | LTE B2 Mid Channel | 1880.0     | MHz        | 3M 16 QAM CH<br>18900 |
|-------------------------|-----------------|--------------------|------------|------------|-----------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                       |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                       |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                       |
| 4.35                    | 25              | 1880.000005        | 2.00       | 4700       |                       |
| 3.8                     | 25              | 1880.000003        | 0.00       | 4700       |                       |
| 3.40                    | 25              | 1880.000004        | 1.00       | 4700       |                       |
| 2.9<br>(End Point)      | 25              | 1880.000028        | 25.00      | 4700       |                       |

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| Reference Frequency:    |                 | LTE B2 Mid Channel | 1880.0     | MHz        | 5M QPSK CH<br>18900 |
|-------------------------|-----------------|--------------------|------------|------------|---------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                     |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                     |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                     |
| 4.35                    | 25              | 1880.000004        | -3.00      | 4700       |                     |
| 3.8                     | 25              | 1880.000007        | 0.00       | 4700       |                     |
| 3.40                    | 25              | 1880.000004        | -3.00      | 4700       |                     |
| 2.9<br>(End Point)      | 25              | 1880.000028        | 21.00      | 4700       |                     |

| Reference Frequency:    |                 | LTE B2 Mid Channel | 1880.0     | MHz        | 5M 16 QAM CH<br>18900 |
|-------------------------|-----------------|--------------------|------------|------------|-----------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                       |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                       |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                       |
| 4.35                    | 25              | 1880.000006        | 3.00       | 4700       |                       |
| 3.8                     | 25              | 1880.000003        | 0.00       | 4700       |                       |
| 3.40                    | 25              | 1880.000005        | 2.00       | 4700       |                       |
| 2.9<br>(End Point)      | 25              | 1880.000044        | 41.00      | 4700       |                       |

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| Reference Frequency:    |                 | LTE B2 Mid Channel | 1880.0     | MHz        | 10M QPSK CH<br>18900 |
|-------------------------|-----------------|--------------------|------------|------------|----------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                      |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                      |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                      |
| 4.35                    | 25              | 1880.000001        | -2.00      | 4700       |                      |
| 3.8                     | 25              | 1880.000003        | 0.00       | 4700       |                      |
| 3.40                    | 25              | 1880.000005        | 2.00       | 4700       |                      |
| 2.9<br>(End Point)      | 25              | 1880.000041        | 38.00      | 4700       |                      |

| Reference Frequency:    |                 | LTE B2 Mid Channel | 1880.0     | MHz        | 10M 16 QAM CH<br>18900 |
|-------------------------|-----------------|--------------------|------------|------------|------------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                        |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                        |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                        |
| 4.35                    | 25              | 1880.000008        | 4.00       | 4700       |                        |
| 3.8                     | 25              | 1880.000004        | 0.00       | 4700       |                        |
| 3.40                    | 25              | 1880.000005        | 1.00       | 4700       |                        |
| 2.9<br>(End Point)      | 25              | 1880.000038        | 34.00      | 4700       |                        |

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| Reference Frequency:    |                 | LTE B2 Mid Channel | 1880.0     | MHz        | 15M QPSK CH<br>18900 |
|-------------------------|-----------------|--------------------|------------|------------|----------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                      |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                      |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                      |
| 4.35                    | 25              | 1880.000005        | 2.00       | 4700       |                      |
| 3.8                     | 25              | 1880.000003        | 0.00       | 4700       |                      |
| 3.40                    | 25              | 1880.000006        | 3.00       | 4700       |                      |
| 2.9<br>(End Point)      | 25              | 1880.000036        | 33.00      | 4700       |                      |

| Reference Frequency:    |                 | LTE B2 Mid Channel | 1880.0     | MHz        | 15M 16 QAM CH<br>18900 |
|-------------------------|-----------------|--------------------|------------|------------|------------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                        |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                        |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                        |
| 4.35                    | 25              | 1880.000006        | 2.00       | 4700       |                        |
| 3.8                     | 25              | 1880.000004        | 0.00       | 4700       |                        |
| 3.40                    | 25              | 1880.000003        | -1.00      | 4700       |                        |
| 2.9<br>(End Point)      | 25              | 1880.000051        | 47.00      | 4700       |                        |

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| Reference Frequency:    |                 | LTE B2 Mid Channel | 1880.0     | MHz        | 20M QPSK CH<br>18900 |
|-------------------------|-----------------|--------------------|------------|------------|----------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                      |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                      |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                      |
| 4.35                    | 25              | 1880.000004        | -1.00      | 4700       |                      |
| 3.8                     | 25              | 1880.000005        | 0.00       | 4700       |                      |
| 3.40                    | 25              | 1880.000004        | -1.00      | 4700       |                      |
| 2.9<br>(End Point)      | 25              | 1880.000041        | 36.00      | 4700       |                      |

| Reference Frequency:    |                 | LTE B2 Mid Channel | 1880.0     | MHz        | 20M 16 QAM CH<br>18900 |
|-------------------------|-----------------|--------------------|------------|------------|------------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                        |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                        |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                        |
| 4.35                    | 25              | 1880.000006        | 1.00       | 4700       |                        |
| 3.8                     | 25              | 1880.000005        | 0.00       | 4700       |                        |
| 3.40                    | 25              | 1880.000004        | -1.00      | 4700       |                        |
| 2.9<br>(End Point)      | 25              | 1880.000035        | 30.00      | 4700       |                        |

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| Reference Frequency:    |                 | LTE B5 Mid Channel | 836.5      | MHz        | 1.4M QPSK CH 20525 |
|-------------------------|-----------------|--------------------|------------|------------|--------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                    |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                    |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                    |
| 4.35                    | 25              | 836.500006         | -2.00      | 2091       |                    |
| 3.8                     | 25              | 836.500008         | 0.00       | 2091       |                    |
| 3.40                    | 25              | 836.500004         | -4.00      | 2091       |                    |
| 2.9<br>(End Point)      | 25              | 836.500044         | 36.00      | 2091       |                    |

| Reference Frequency:    |                 | LTE B5 Mid Channel | 836.5      | MHz        | 1.4M 16 QAM CH 20525 |
|-------------------------|-----------------|--------------------|------------|------------|----------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                      |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                      |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                      |
| 4.35                    | 25              | 836.500004         | -4.00      | 2091       |                      |
| 3.8                     | 25              | 836.500008         | 0.00       | 2091       |                      |
| 3.40                    | 25              | 836.500003         | -5.00      | 2091       |                      |
| 2.9<br>(End Point)      | 25              | 836.500038         | 30.00      | 2091       |                      |

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| Reference Frequency:    |                 | LTE B5 Mid Channel | 836.5      | MHz        | 3M QPSK CH 20525 |
|-------------------------|-----------------|--------------------|------------|------------|------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                  |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                  |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                  |
| 4.35                    | 25              | 836.500007         | 2.00       | 2091       |                  |
| 3.8                     | 25              | 836.500005         | 0.00       | 2091       |                  |
| 3.40                    | 25              | 836.500002         | -3.00      | 2091       |                  |
| 2.9<br>(End Point)      | 25              | 836.500029         | 24.00      | 2091       |                  |

| Reference Frequency:    |                 | LTE B5 Mid Channel | 836.5      | MHz        | 3M 16 QAM CH 20525 |
|-------------------------|-----------------|--------------------|------------|------------|--------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                    |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                    |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                    |
| 4.35                    | 25              | 836.500006         | 3.00       | 2091       |                    |
| 3.8                     | 25              | 836.500003         | 0.00       | 2091       |                    |
| 3.40                    | 25              | 836.500004         | 1.00       | 2091       |                    |
| 2.9<br>(End Point)      | 25              | 836.500026         | 23.00      | 2091       |                    |

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| Reference Frequency:    |                 | LTE B5 Mid Channel | 836.5      | MHz        | 5M QPSK CH<br>20525 |
|-------------------------|-----------------|--------------------|------------|------------|---------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                     |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                     |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                     |
| 4.35                    | 25              | 836.500006         | 3.00       | 2091       |                     |
| 3.8                     | 25              | 836.500003         | 0.00       | 2091       |                     |
| 3.40                    | 25              | 836.500001         | -2.00      | 2091       |                     |
| 2.9<br>(End Point)      | 25              | 836.500032         | 29.00      | 2091       |                     |

| Reference Frequency:    |                 | LTE B5 Mid Channel | 836.5      | MHz        | 5M 16 QAM CH<br>20525 |
|-------------------------|-----------------|--------------------|------------|------------|-----------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                       |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                       |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                       |
| 4.35                    | 25              | 836.500007         | 3.00       | 2091       |                       |
| 3.8                     | 25              | 836.500004         | 0.00       | 2091       |                       |
| 3.40                    | 25              | 836.500002         | -2.00      | 2091       |                       |
| 2.9<br>(End Point)      | 25              | 836.500036         | 32.00      | 2091       |                       |

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| Reference Frequency:    |                 | LTE B5 Mid Channel | 836.5      | MHz        | 10M QPSK CH 20525 |
|-------------------------|-----------------|--------------------|------------|------------|-------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                   |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                   |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                   |
| 4.35                    | 25              | 836.500005         | 1.00       | 2091       |                   |
| 3.8                     | 25              | 836.500004         | 0.00       | 2091       |                   |
| 3.40                    | 25              | 836.500006         | 2.00       | 2091       |                   |
| 2.9<br>(End Point)      | 25              | 836.500029         | 25.00      | 2091       |                   |

| Reference Frequency:    |                 | LTE B5 Mid Channel | 836.5      | MHz        | 10M 16 QAM CH 20525 |
|-------------------------|-----------------|--------------------|------------|------------|---------------------|
| Limit: +/- 2.5 ppm = Hz |                 |                    |            |            |                     |
| Power Supply            | Environment     | Frequency          | Delta (Hz) | Limit (Hz) |                     |
| Vdc                     | Temperature ( ) | (MHz)              |            |            |                     |
| 4.35                    | 25              | 836.500008         | 5.00       | 2091       |                     |
| 3.8                     | 25              | 836.500003         | 0.00       | 2091       |                     |
| 3.40                    | 25              | 836.500002         | -1.00      | 2091       |                     |
| 2.9<br>(End Point)      | 25              | 836.500033         | 30.00      | 2091       |                     |

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## 13. PEAK TO AVERAGE RATIO

### 13.1. Standard Applicable:

According FCC 24.232(d), The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

### 13.2. Test SET-UP (Block Diagram of Configuration):

Refer to section 2.4 in this report

### 13.3. Measurement Procedure:

KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:

Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth; & internal = 1ms

Set the number of counts to a value that stabilizes the measured CCDF curve.

### 13.4. Measurement Equipment Used:

Refer to section 2.4 in this report

### 13.5. Measurement Result:

Refer to next page for tabular, and plot results

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## 13.5.1 Tabular Results:

| TEST<br>CONDITIONS | Peak-to-Average Ratio |       |                |       |                |       |
|--------------------|-----------------------|-------|----------------|-------|----------------|-------|
|                    | Channel 128(L)        |       | Channel 190(M) |       | Channel 251(H) |       |
|                    | 824.2MHz              |       | 836.6MHz       |       | 848.8MHz       |       |
|                    | dB                    |       | dB             |       | dB             |       |
| Tnom / Vnom        | Measured              | Limit | Measured       | Limit | Measured       | Limit |
| GSM 850            | 10.83                 | 13    | 10.39          | 13    | 8.27           | 13    |
| GPRS 850           | 9.24                  | 13    | 9.63           | 13    | 10.27          | 13    |
| EDGE 850           | 11.81                 | 13    | 12.21          | 13    | 12.54          | 13    |

| TEST<br>CONDITIONS | Peak-to-Average Ratio |       |                |       |                |       |
|--------------------|-----------------------|-------|----------------|-------|----------------|-------|
|                    | Channel 512(L)        |       | Channel 661(M) |       | Channel 810(H) |       |
|                    | 1850.2MHz             |       | 1880.0MHz      |       | 1909.8MHz      |       |
|                    | dB                    |       | dB             |       | dB             |       |
| Tnom / Vnom        | Measured              | Limit | Measured       | Limit | Measured       | Limit |
| GSM 1900           | 10.60                 | 13    | 10.80          | 13    | 12.14          | 13    |
| GPRS 1900          | 9.90                  | 13    | 9.03           | 13    | 9.31           | 13    |
| EDGE 1900          | 12.41                 | 13    | 12.38          | 13    | 12.14          | 13    |

| TEST<br>CONDITIONS | Peak-to-Average Ratio |       |                 |       |                 |       |
|--------------------|-----------------------|-------|-----------------|-------|-----------------|-------|
|                    | Channel 9262(L)       |       | Channel 9400(M) |       | Channel 9538(H) |       |
|                    | 1852.4MHz             |       | 1880.0MHz       |       | 1907.6MHz       |       |
|                    | dB                    |       | dB              |       | dB              |       |
| Tnom / Vnom        | Measured              | Limit | Measured        | Limit | Measured        | Limit |
| WCDMA Band II      | 2.93                  | 13    | 2.80            | 13    | 2.53            | 13    |
| HSUPA Band II      | 3.55                  | 13    | 3.56            | 13    | 3.64            | 13    |
| HSDPA Band II      | 3.55                  | 13    | 3.70            | 13    | 3.47            | 13    |

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| TEST<br>CONDITIONS | Peak-to-Average Ratio |       |                 |       |                 |       |
|--------------------|-----------------------|-------|-----------------|-------|-----------------|-------|
|                    | Channel 4132(L)       |       | Channel 4183(M) |       | Channel 4233(H) |       |
|                    | 826.4MHz              |       | 836.6MHz        |       | 846.6MHz        |       |
|                    | dB                    |       | dB              |       | dB              |       |
| Tnom / Vnom        | Measured              | Limit | Measured        | Limit | Measured        | Limit |
| WCDMA Band V       | 3.19                  | 13    | 3.08            | 13    | 3.16            | 13    |
| HSUPA Band V       | 3.75                  | 13    | 3.86            | 13    | 3.35            | 13    |
| HSDPA Band V       | 3.95                  | 13    | 3.86            | 13    | 3.80            | 13    |

| TEST<br>CONDITIONS | Peak-to-Average Ratio |       |                  |       |                  |       |
|--------------------|-----------------------|-------|------------------|-------|------------------|-------|
|                    | Channel 18607(L)      |       | Channel 18900(M) |       | Channel 19193(H) |       |
|                    | 1850.7MHz             |       | 1880.0MHz        |       | 1909.3MHz        |       |
|                    | dB                    |       | dB               |       | dB               |       |
| Tnom / Vnom        | Measured              | Limit | Measured         | Limit | Measured         | Limit |
| BAND 2/BW:1.4M     | 5.55                  | 13    | 5.73             | 13    | 5.12             | 13    |

| TEST<br>CONDITIONS | Peak-to-Average Ratio |       |                  |       |                  |       |
|--------------------|-----------------------|-------|------------------|-------|------------------|-------|
|                    | Channel 18615(L)      |       | Channel 18900(M) |       | Channel 19185(H) |       |
|                    | 1851.5MHz             |       | 1880.0MHz        |       | 1908.5MHz        |       |
|                    | dB                    |       | dB               |       | dB               |       |
| Tnom / Vnom        | Measured              | Limit | Measured         | Limit | Measured         | Limit |
| BAND 2/BW:3M       | 5.58                  | 13    | 5.84             | 13    | 5.44             | 13    |

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| TEST<br>CONDITIONS | Peak-to-Average Ratio |       |                  |       |                  |       |
|--------------------|-----------------------|-------|------------------|-------|------------------|-------|
|                    | Channel 19975(L)      |       | Channel 20175(M) |       | Channel 20375(H) |       |
|                    | 1852.5MHz             |       | 1880.0MHz        |       | 1907.5 MHz       |       |
|                    | dB                    |       | dB               |       | dB               |       |
| Tnom / Vnom        | Measured              | Limit | Measured         | Limit | Measured         | Limit |
| BAND 2/BW:5M       | 5.91                  | 13    | 6.01             | 13    | 5.80             | 13    |

| TEST<br>CONDITIONS | Peak-to-Average Ratio |       |                  |       |                   |       |
|--------------------|-----------------------|-------|------------------|-------|-------------------|-------|
|                    | Channel 20000 (L)     |       | Channel 20175(M) |       | Channel 20350 (H) |       |
|                    | 1855.0 MHz            |       | 1880.0 MHz       |       | 1905.0 MHz        |       |
|                    | dB                    |       | dB               |       | dB                |       |
| Tnom / Vnom        | Measured              | Limit | Measured         | Limit | Measured          | Limit |
| BAND 2/BW:10M      | 6.12                  | 13    | 6.00             | 13    | 6.04              | 13    |

| TEST<br>CONDITIONS | Peak-to-Average Ratio |       |                  |       |                  |       |
|--------------------|-----------------------|-------|------------------|-------|------------------|-------|
|                    | Channel 20025(L)      |       | Channel 20175(M) |       | Channel 20325(H) |       |
|                    | 1857.5 MHz            |       | 1880.0 MHz       |       | 1902.5 MHz       |       |
|                    | dB                    |       | dB               |       | dB               |       |
| Tnom / Vnom        | Measured              | Limit | Measured         | Limit | Measured         | Limit |
| BAND 2/BW:15M      | 6.61                  | 13    | 6.58             | 13    | 6.68             | 13    |

| TEST<br>CONDITIONS | Peak-to-Average Ratio |       |                  |       |                  |       |
|--------------------|-----------------------|-------|------------------|-------|------------------|-------|
|                    | Channel 20050(L)      |       | Channel 20175(M) |       | Channel 20300(H) |       |
|                    | 1860.0 MHz            |       | 1880.0 MHz       |       | 1900.0 MHz       |       |
|                    | dB                    |       | dB               |       | dB               |       |
| Tnom / Vnom        | Measured              | Limit | Measured         | Limit | Measured         | Limit |
| BAND 2/BW:20M      | 6.99                  | 13    | 7.06             | 13    | 7.05             | 13    |

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| TEST<br>CONDITIONS | Peak-to-Average Ratio |       |                  |       |                  |       |
|--------------------|-----------------------|-------|------------------|-------|------------------|-------|
|                    | Channel 20407(L)      |       | Channel 20525(M) |       | Channel 20643(H) |       |
|                    | 824.7MHz              |       | 836.5MHz         |       | 848.3MHz         |       |
|                    | dB                    |       | dB               |       | dB               |       |
| Tnom / Vnom        | Measured              | Limit | Measured         | Limit | Measured         | Limit |
| BAND 5/BW:1.4M     | 6.71                  | 13    | 6.56             | 13    | 6.50             | 13    |

| TEST<br>CONDITIONS | Peak-to-Average Ratio |       |                   |       |                   |       |
|--------------------|-----------------------|-------|-------------------|-------|-------------------|-------|
|                    | Channel 20415 (L)     |       | Channel 20525 (M) |       | Channel 20643 (H) |       |
|                    | 825.5MHz              |       | 836.5MHz          |       | 847.5             |       |
|                    | dB                    |       | dB                |       | dB                |       |
| Tnom / Vnom        | Measured              | Limit | Measured          | Limit | Measured          | Limit |
| BAND 5/BW:3M       | 6.66                  | 13    | 6.56              | 13    | 6.55              | 13    |

| TEST<br>CONDITIONS | Peak-to-Average Ratio |       |                  |       |                  |       |
|--------------------|-----------------------|-------|------------------|-------|------------------|-------|
|                    | Channel 20425(L)      |       | Channel 20525(M) |       | Channel 20625(H) |       |
|                    | 826.5MHz              |       | 836.5MHz         |       | 846.5 MHz        |       |
|                    | dB                    |       | dB               |       | dB               |       |
| Tnom / Vnom        | Measured              | Limit | Measured         | Limit | Measured         | Limit |
| BAND 5/BW:5M       | 6.61                  | 13    | 6.71             | 13    | 6.67             | 13    |

| TEST<br>CONDITIONS | Peak-to-Average Ratio |       |                  |       |                   |       |
|--------------------|-----------------------|-------|------------------|-------|-------------------|-------|
|                    | Channel 20450 (L)     |       | Channel 20525(M) |       | Channel 20600 (H) |       |
|                    | 829.0 MHz             |       | 836.5 MHz        |       | 844.0 MHz         |       |
|                    | dB                    |       | dB               |       | dB                |       |
| Tnom / Vnom        | Measured              | Limit | Measured         | Limit | Measured          | Limit |
| BAND 5/BW:10M      | 6.47                  | 13    | 6.62             | 13    | 6.56              | 13    |

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### 13.5.2 Measurement Results:

Figure 13-1: GSM 850 Channel Low

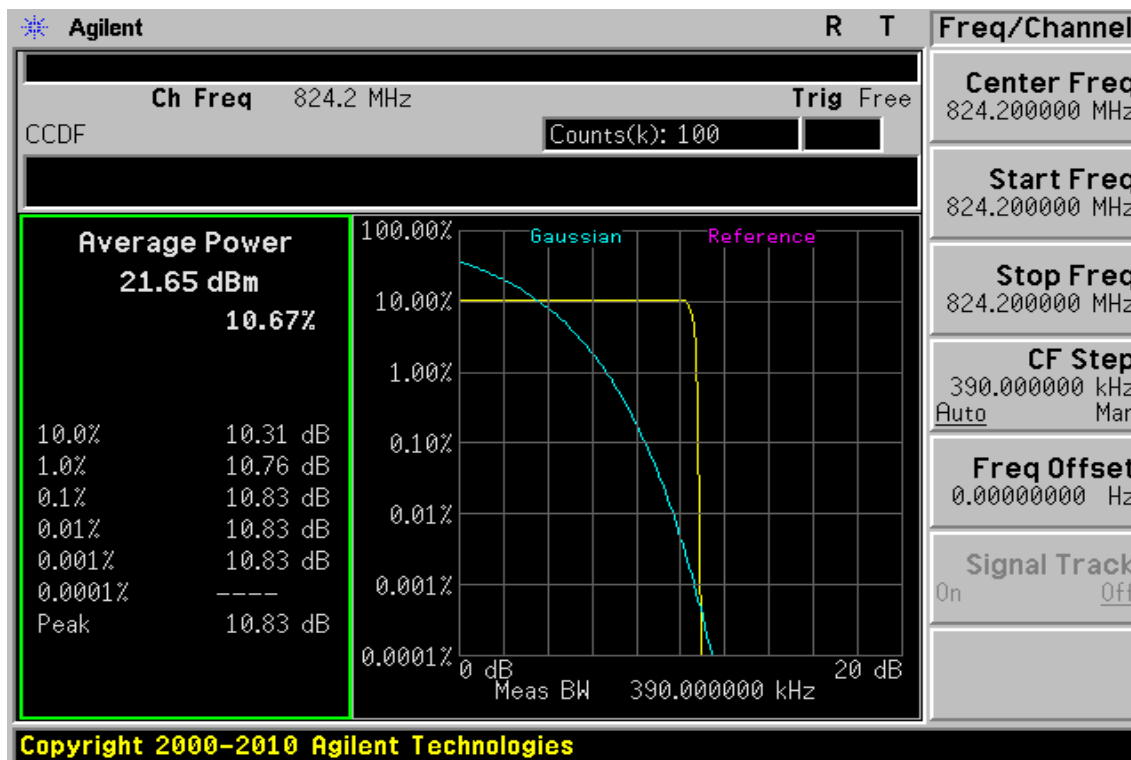
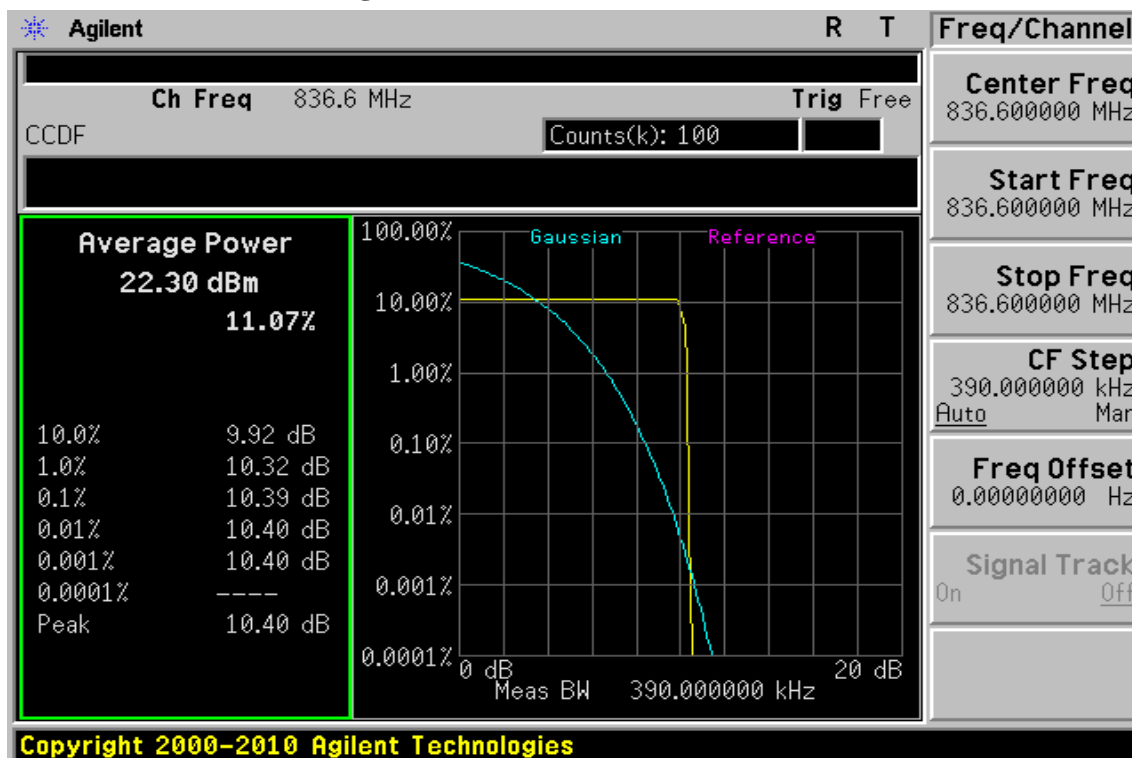


Figure 13-2: GSM 850 Channel Mid



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Figure 13-3: GSM 850 Channel High

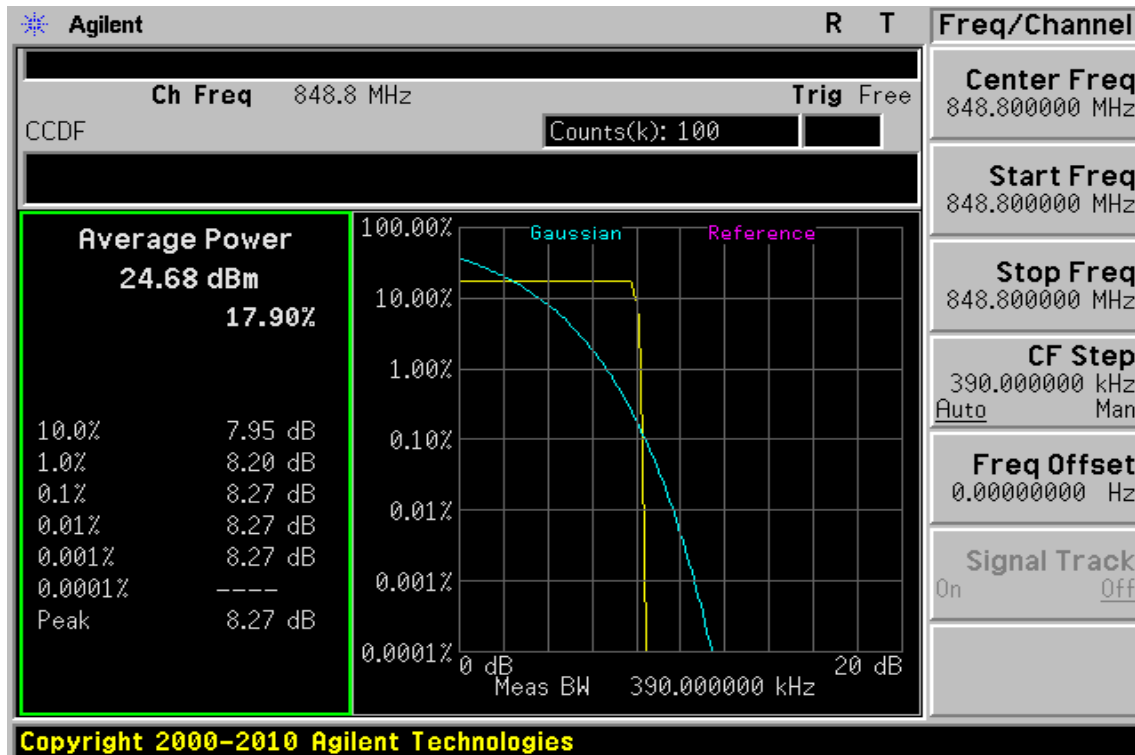
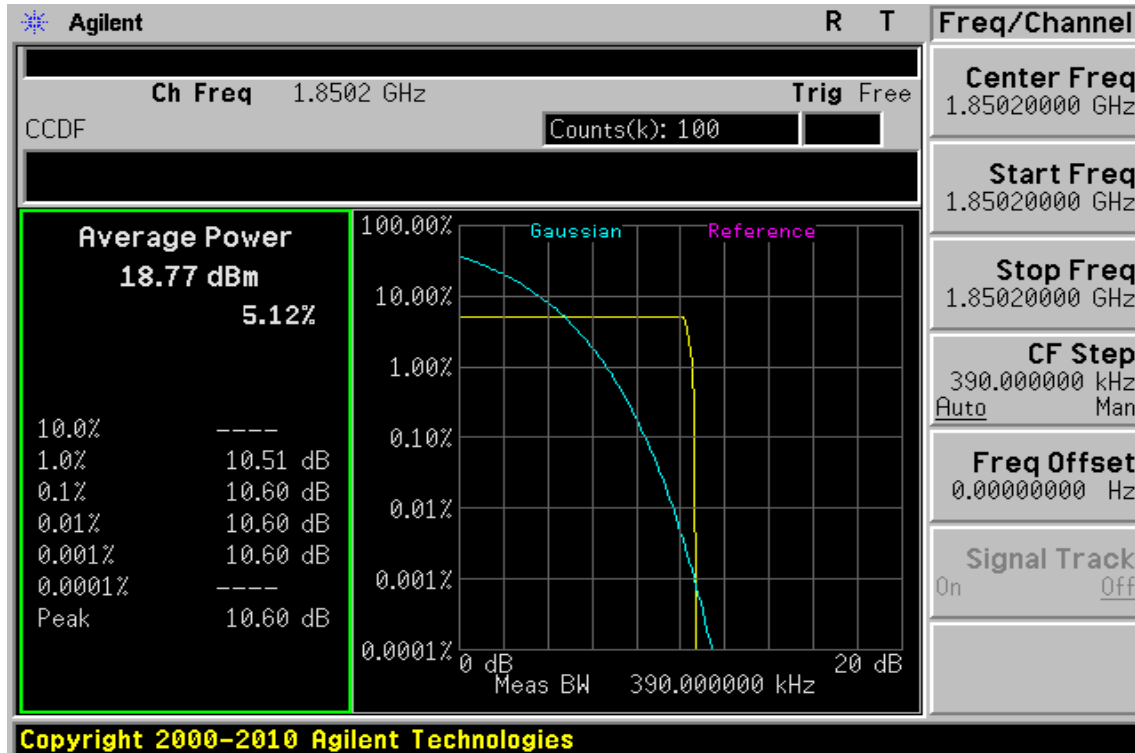


Figure 13-4: GSM 1900 Channel Low



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Figure 13-5: GSM 1900 Channel Mid

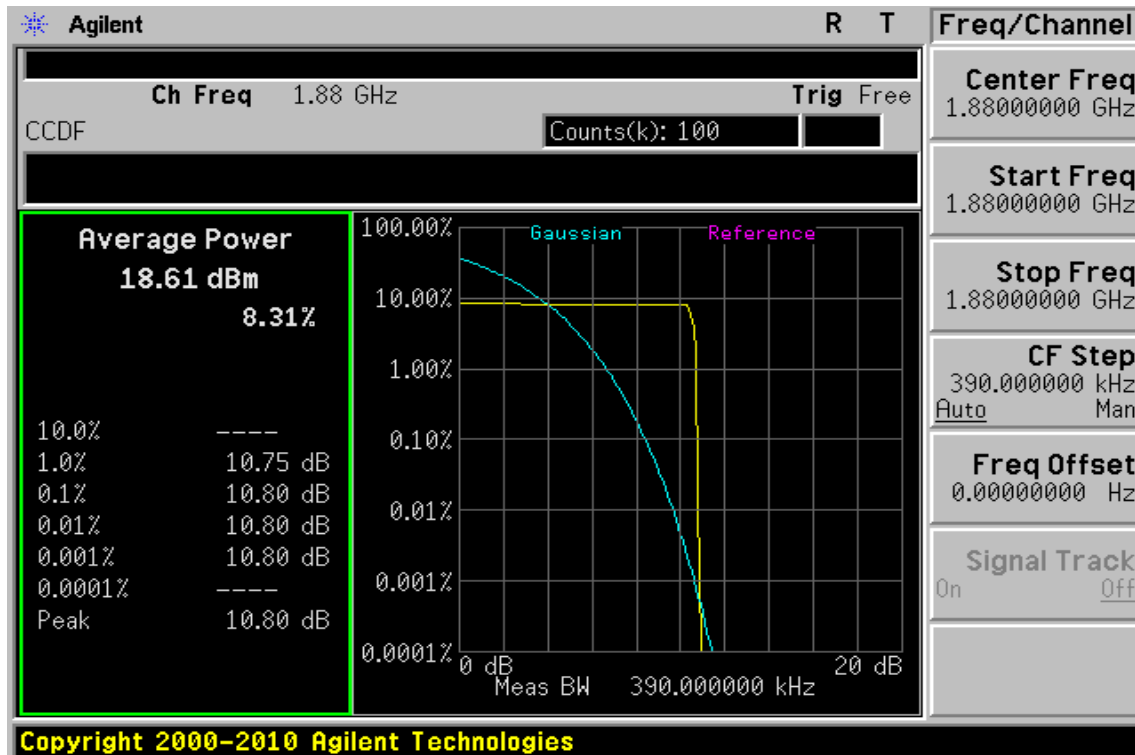


Figure 13-6: GSM 1900 Channel High



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Figure 13-7: GPRS 850 Channel Low

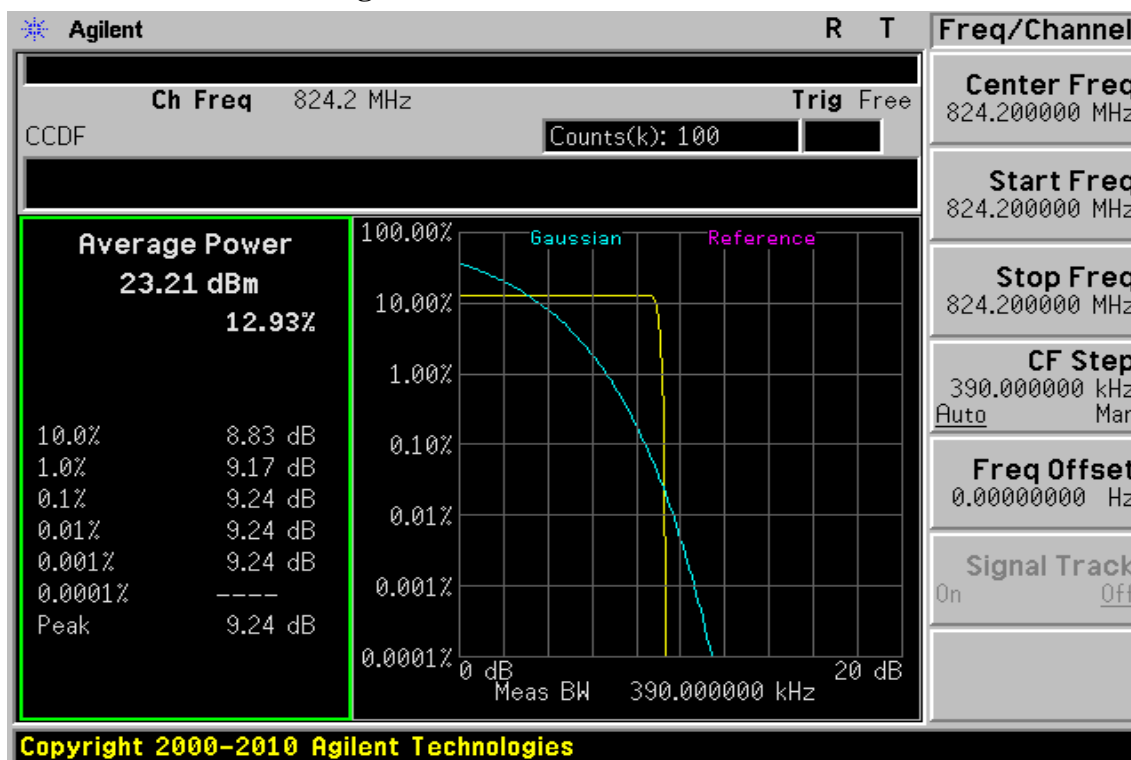
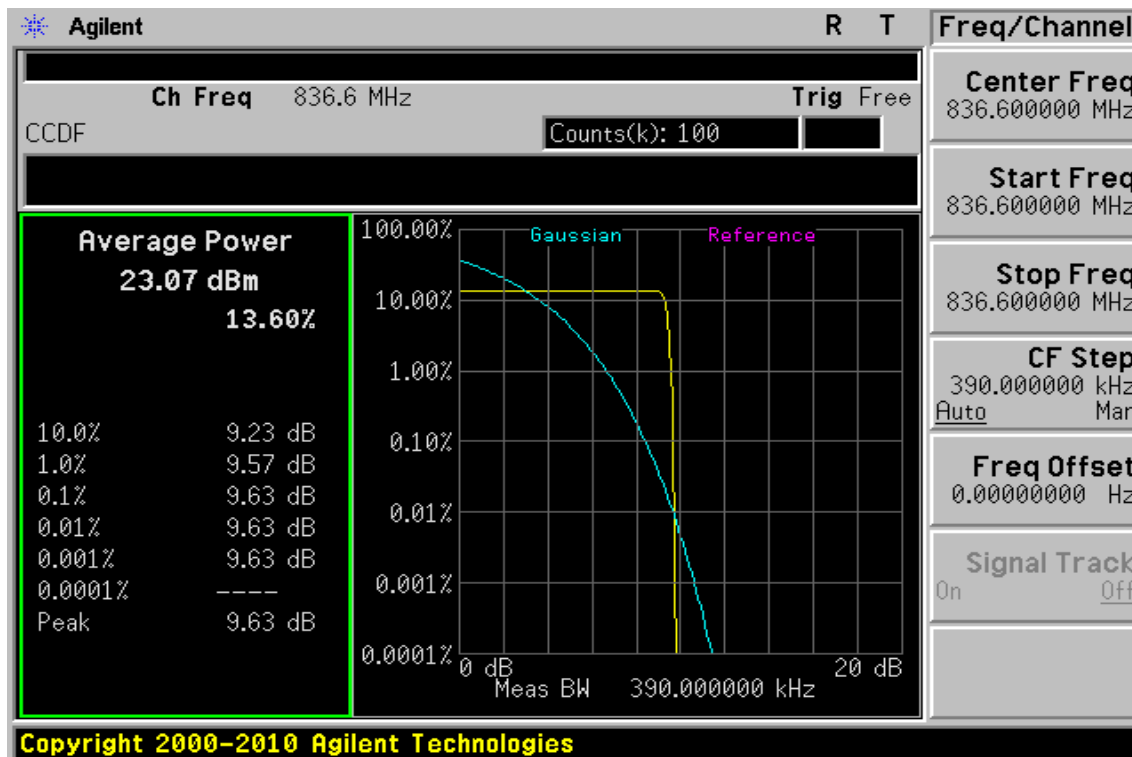


Figure 13-8: GPRS 850 Channel Mid



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Figure 13-9: GPRS 850 Channel High

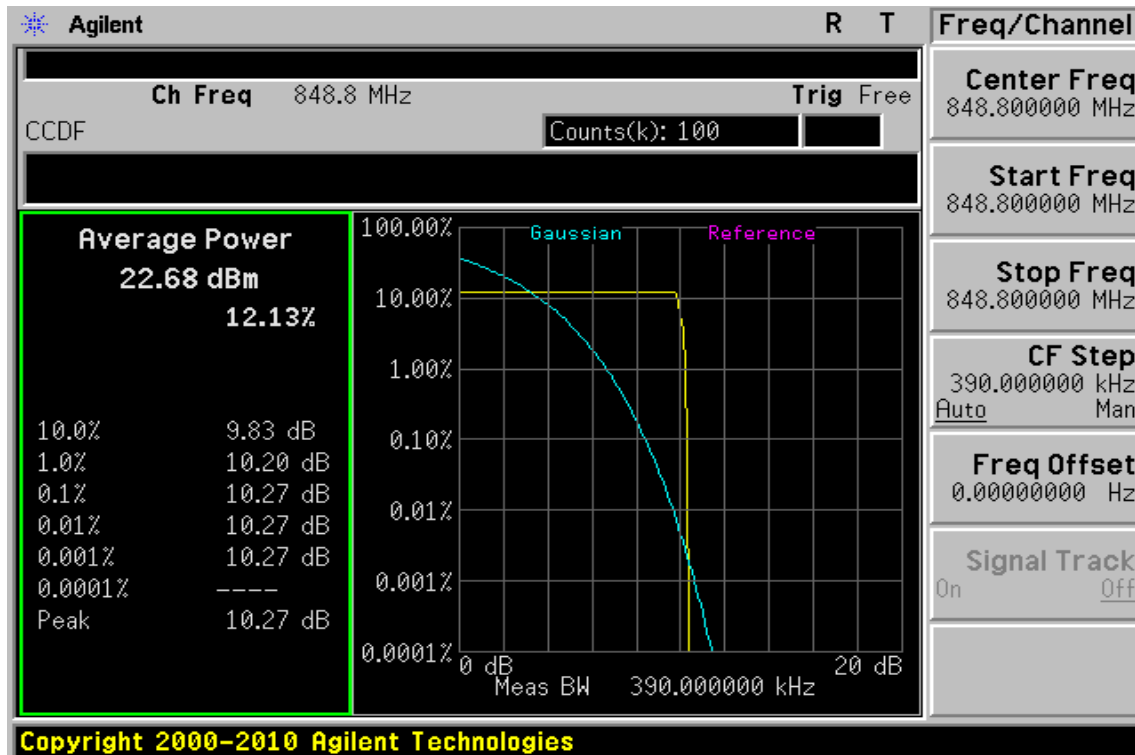
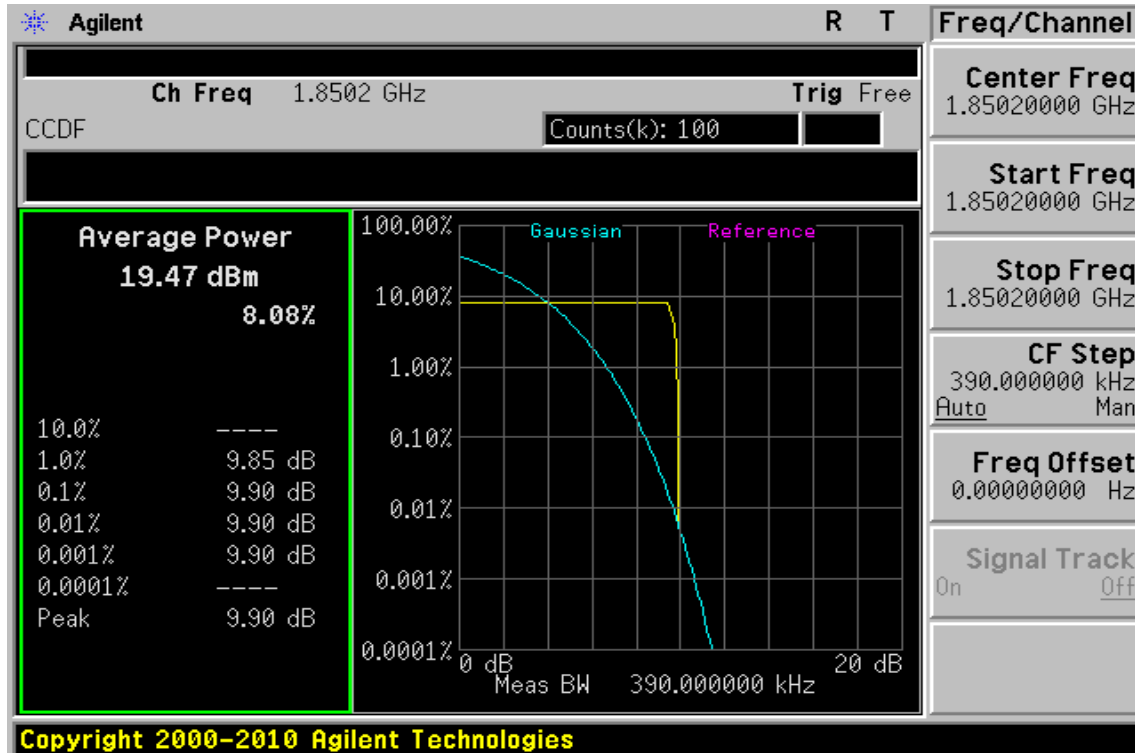


Figure 13-10: GPRS 1900 Channel Low



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Figure 13-11 GPRS 1900 Channel Mid

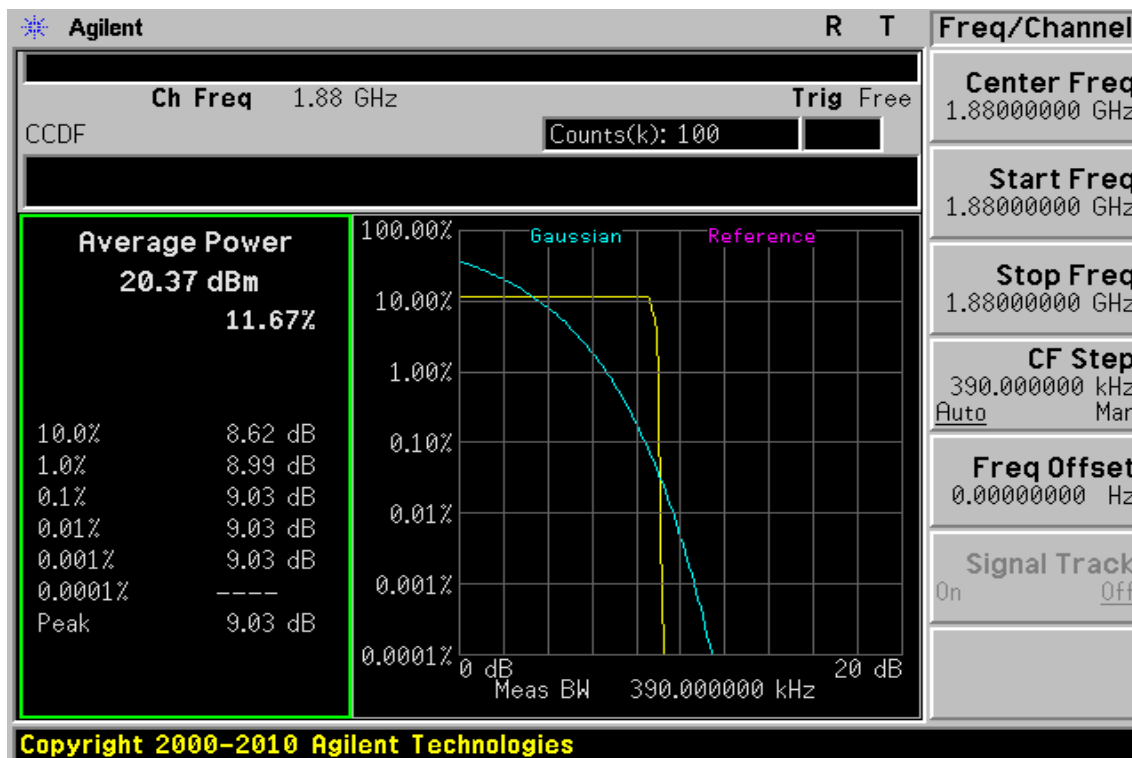
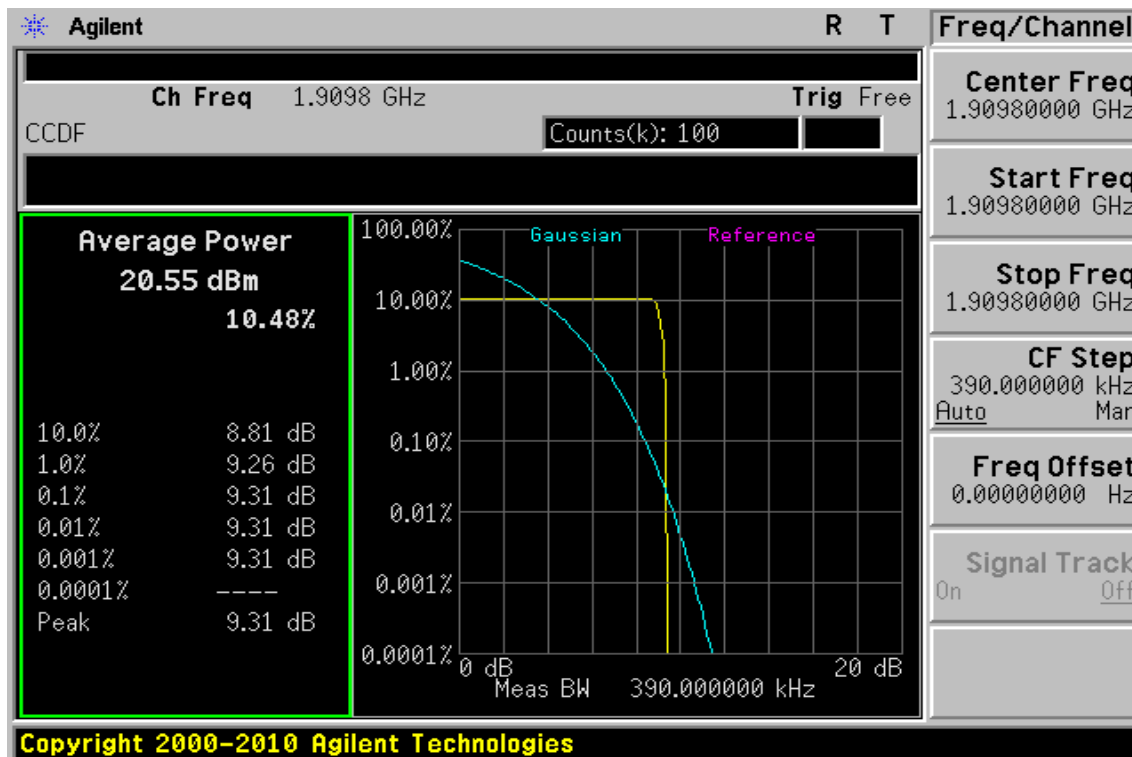


Figure 13-12: GPRS 1900 Channel High



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Figure 13-13: EDGE 850 Channel Low

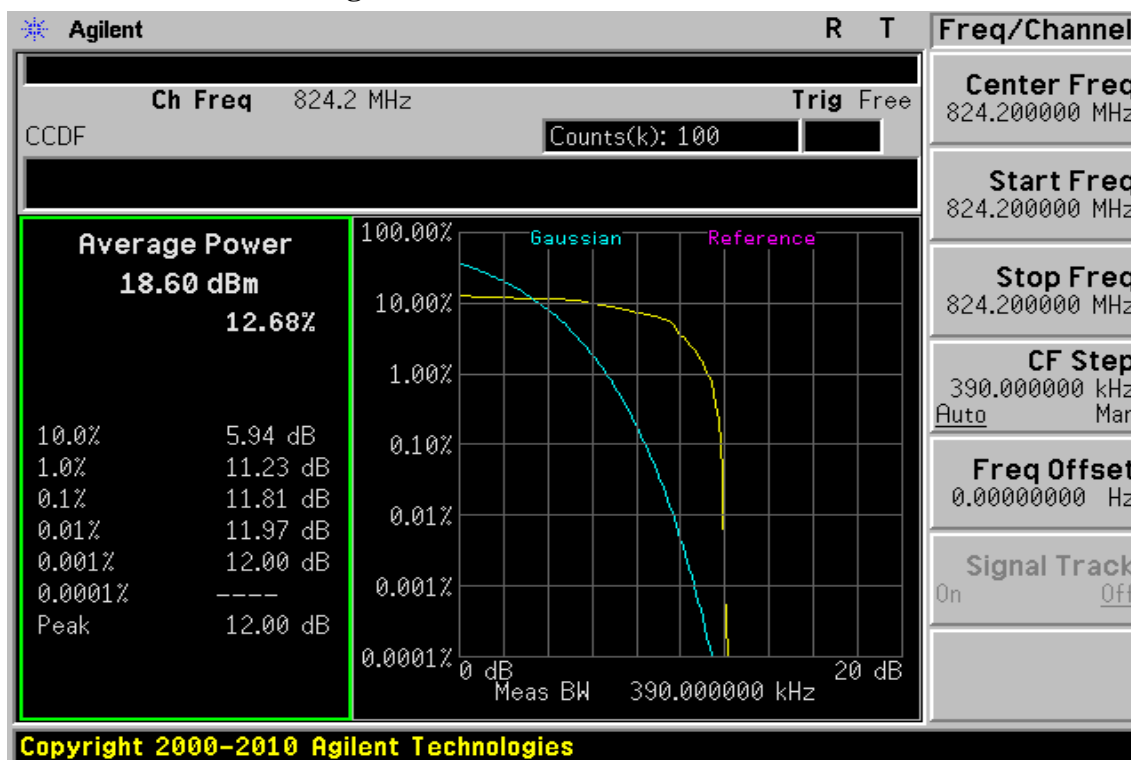
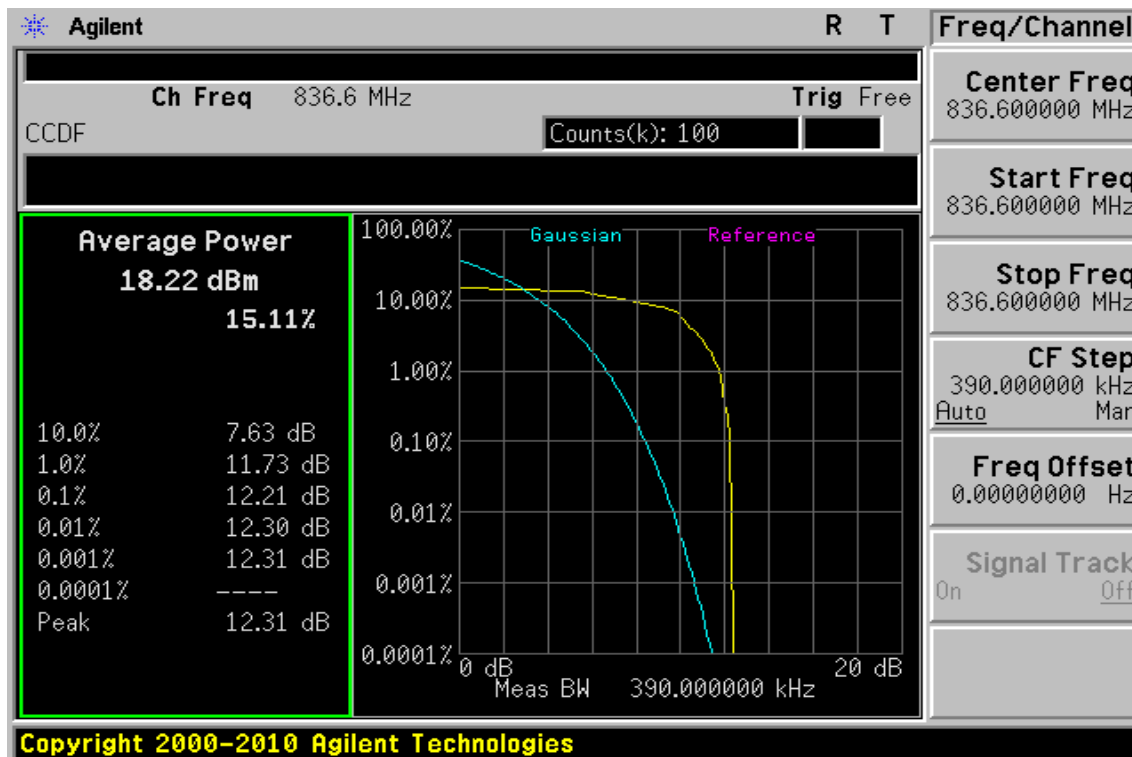


Figure 13-14 EDGE 850 Channel Mid



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Figure 13-15: EDGE 850 Channel High

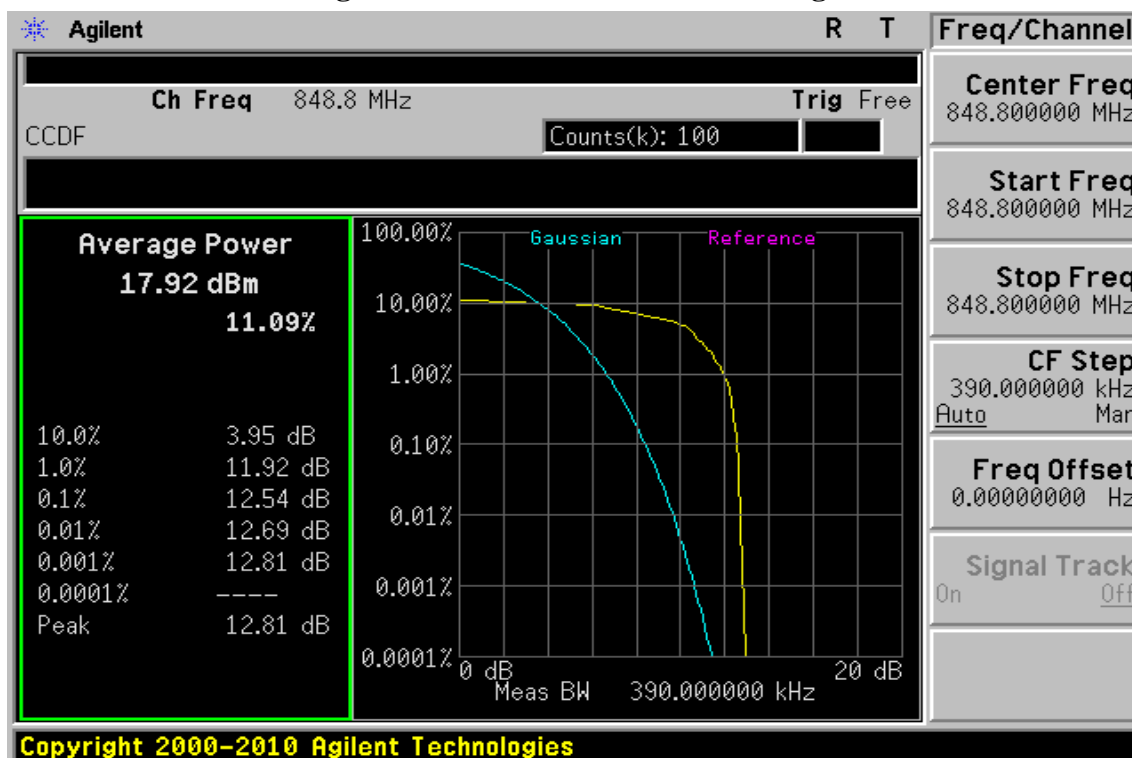
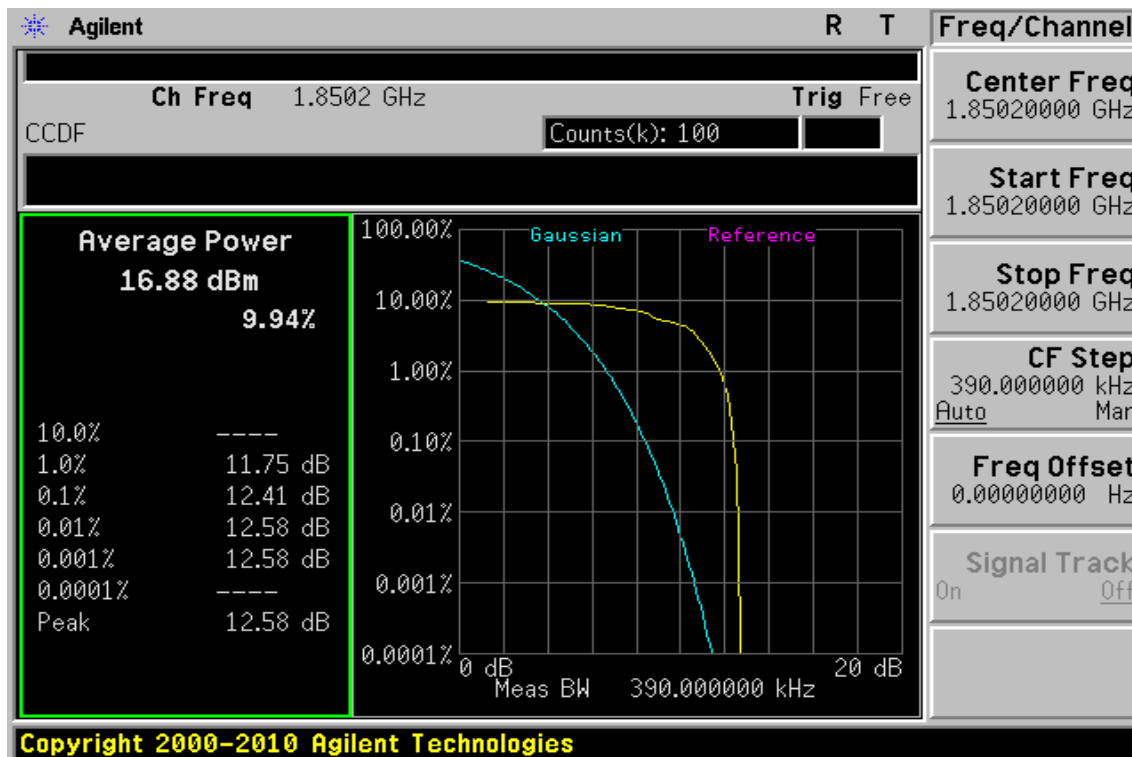


Figure 13-16: EDGE 1900 Channel Low



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Figure 13-17 EDGE 1900 Channel Mid

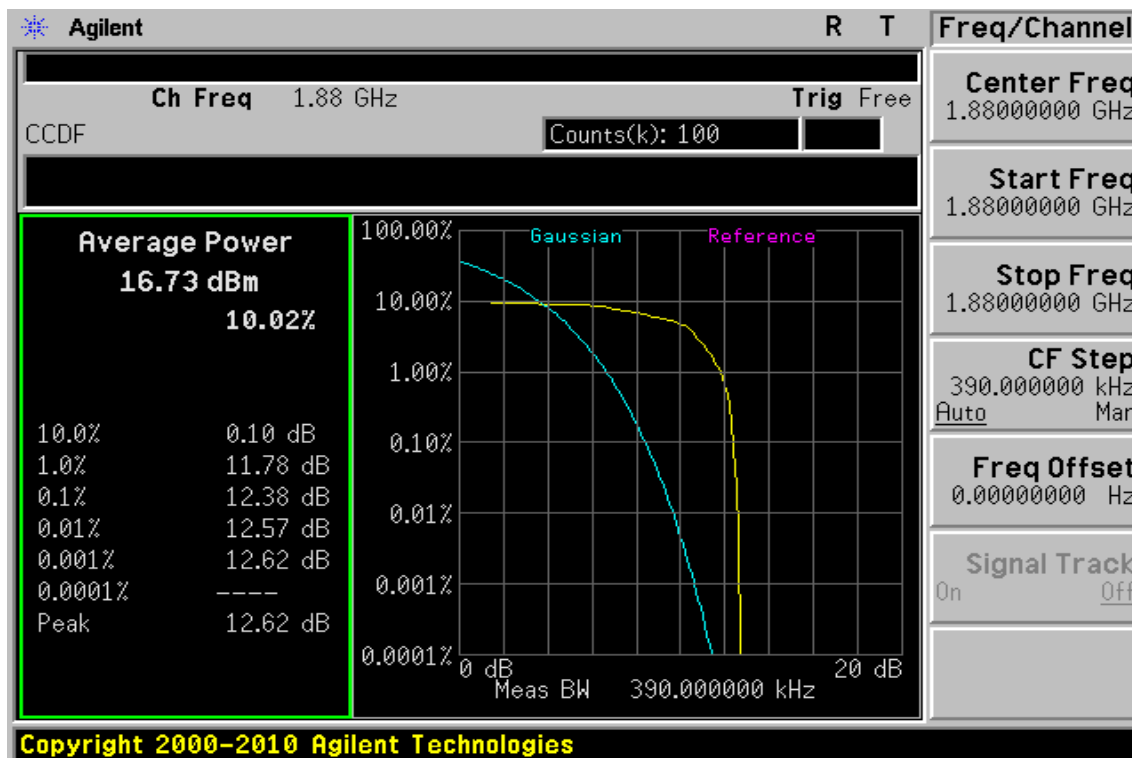
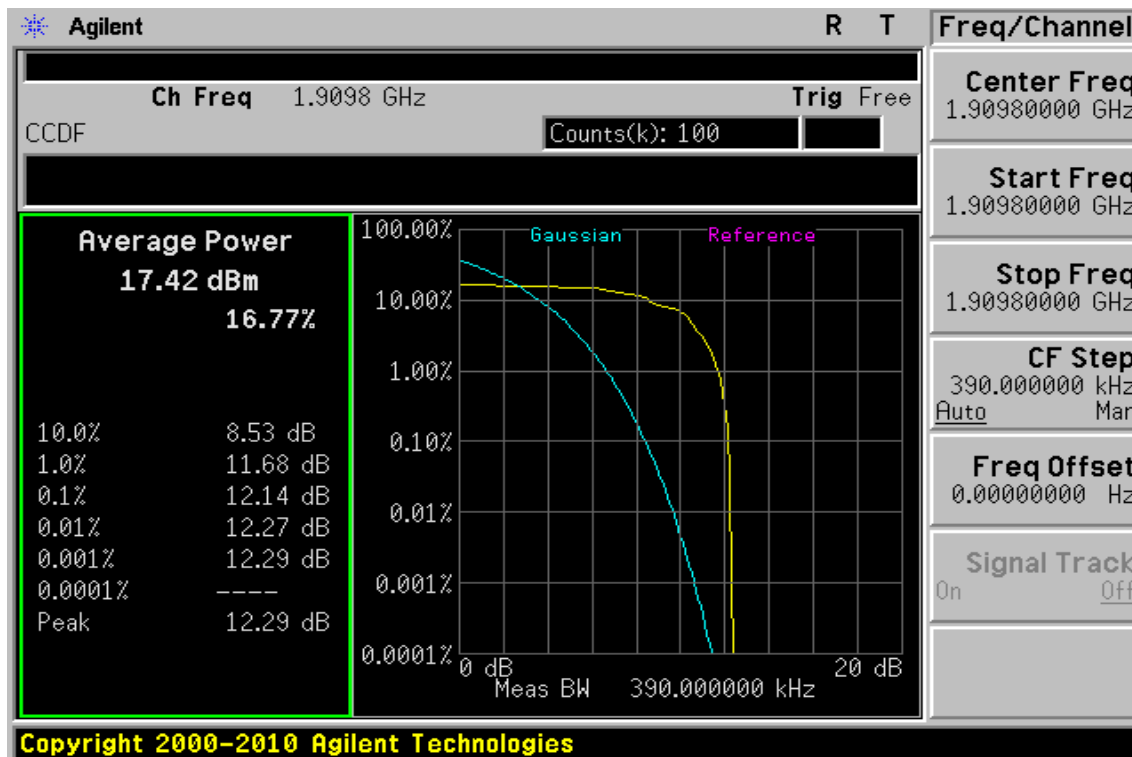


Figure 13-18: EDGE 1900 Channel High



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Figure 13-19: WCDMA Band II Channel Low

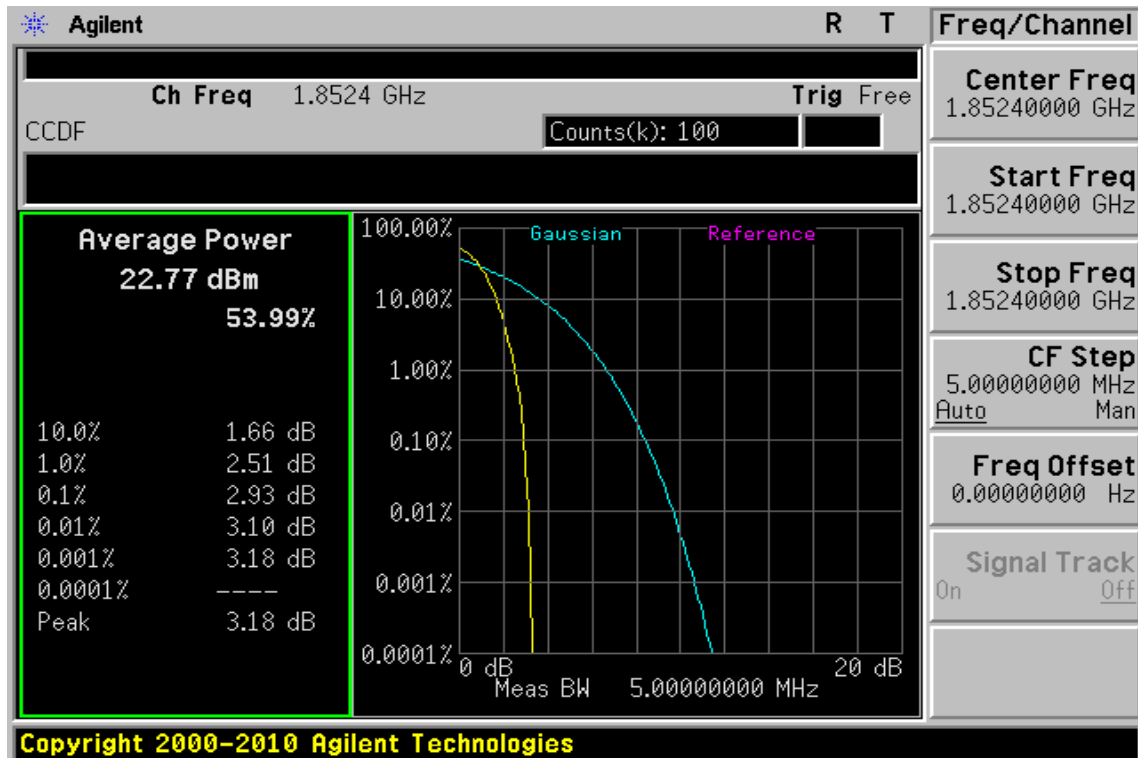
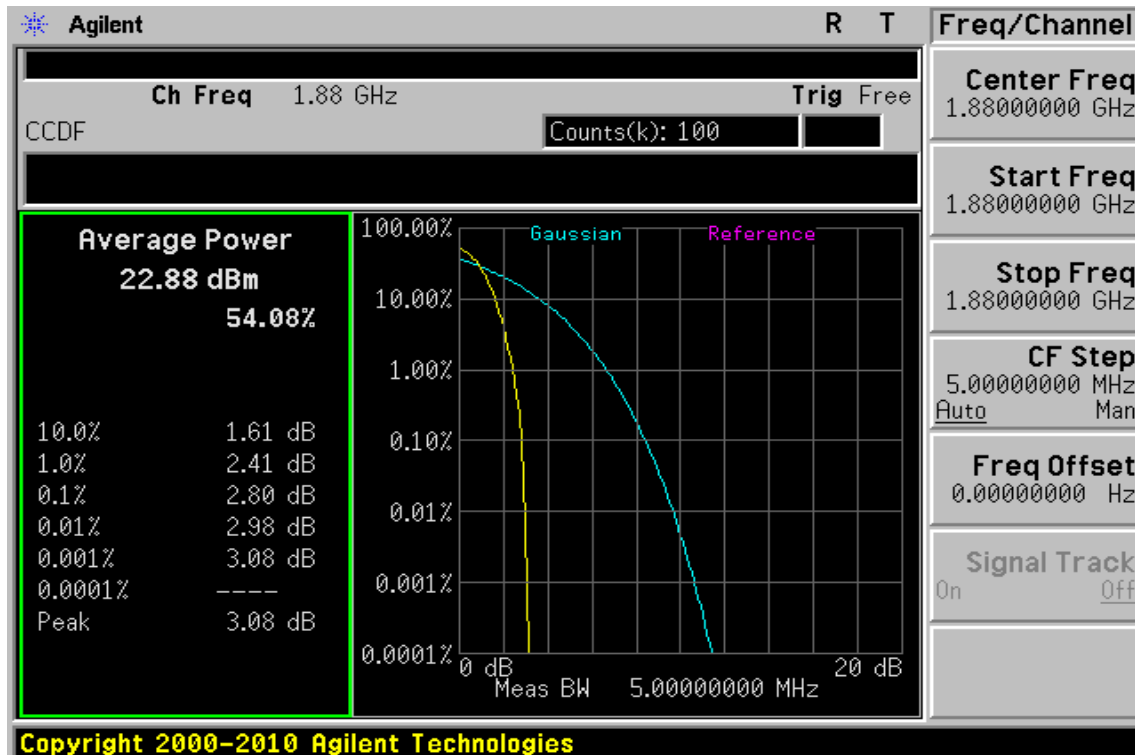


Figure 13-20: WCDMA Band II Channel Mid



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Figure 13-21: WCDMA Band II Channel High

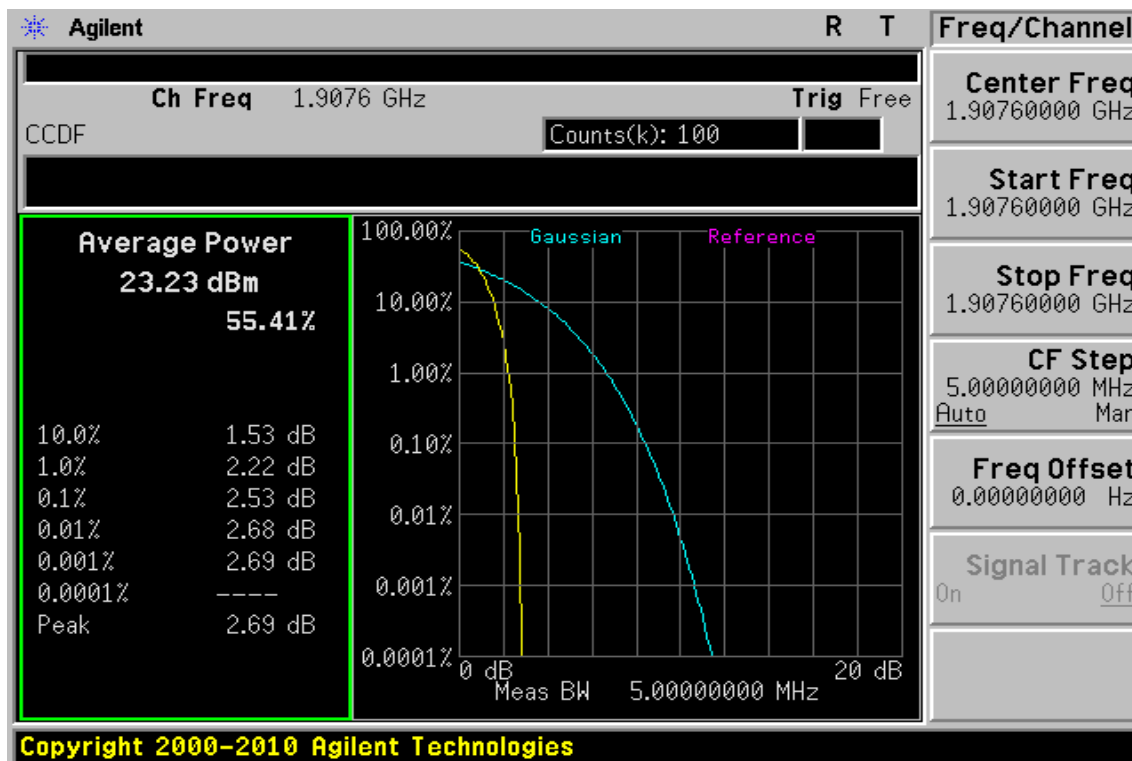
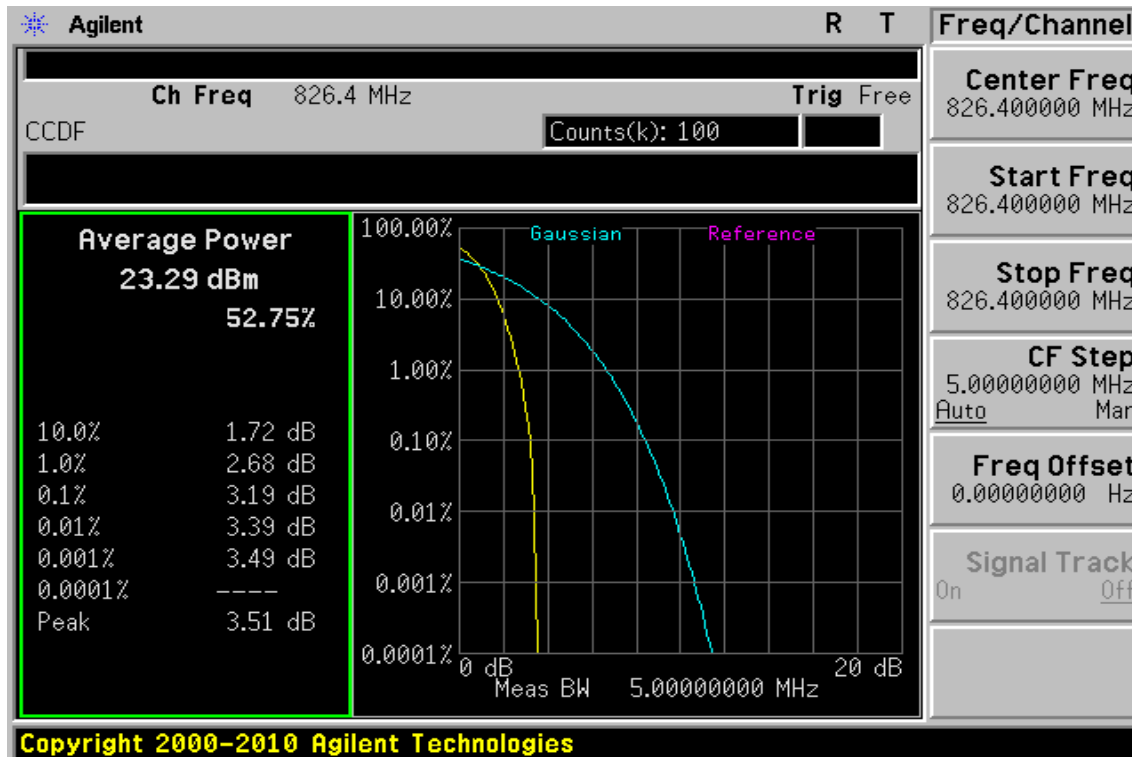


Figure 13-25: WCDMA Band V Channel Low



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Figure 13-26: WCDMA Band V Channel Mid

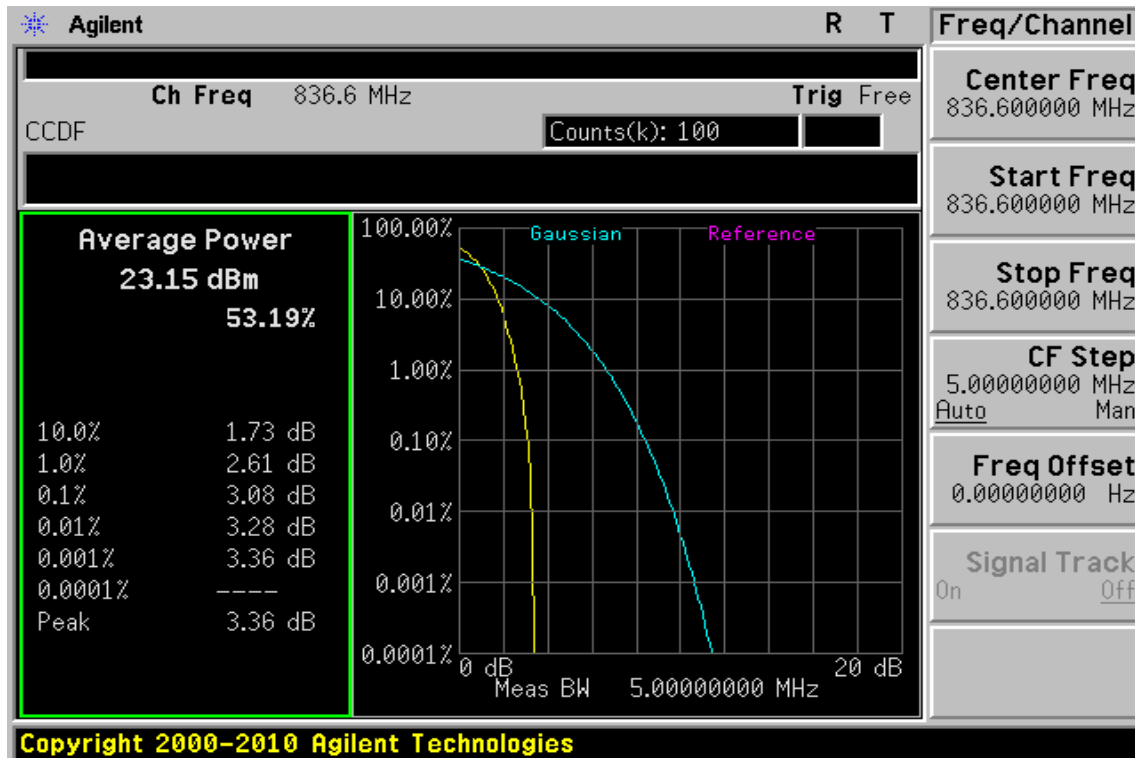
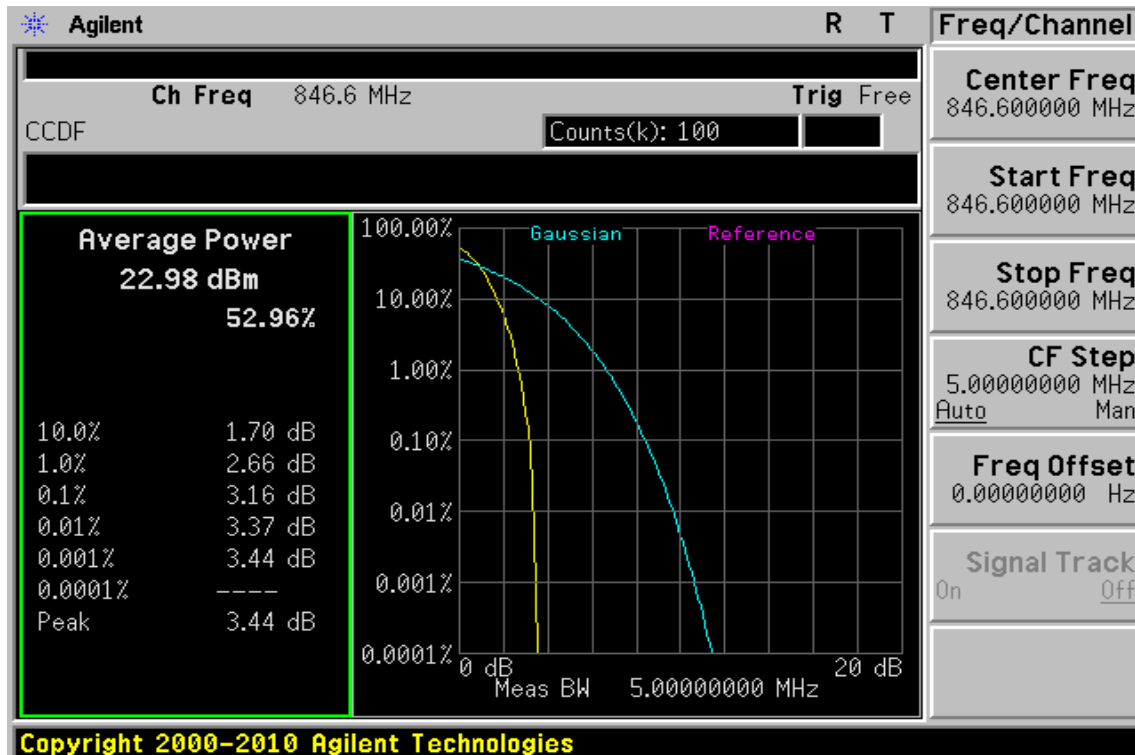


Figure 13-27: WCDMA Band V Channel High



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Figure 13-28: HSDPA Band II Channel Low

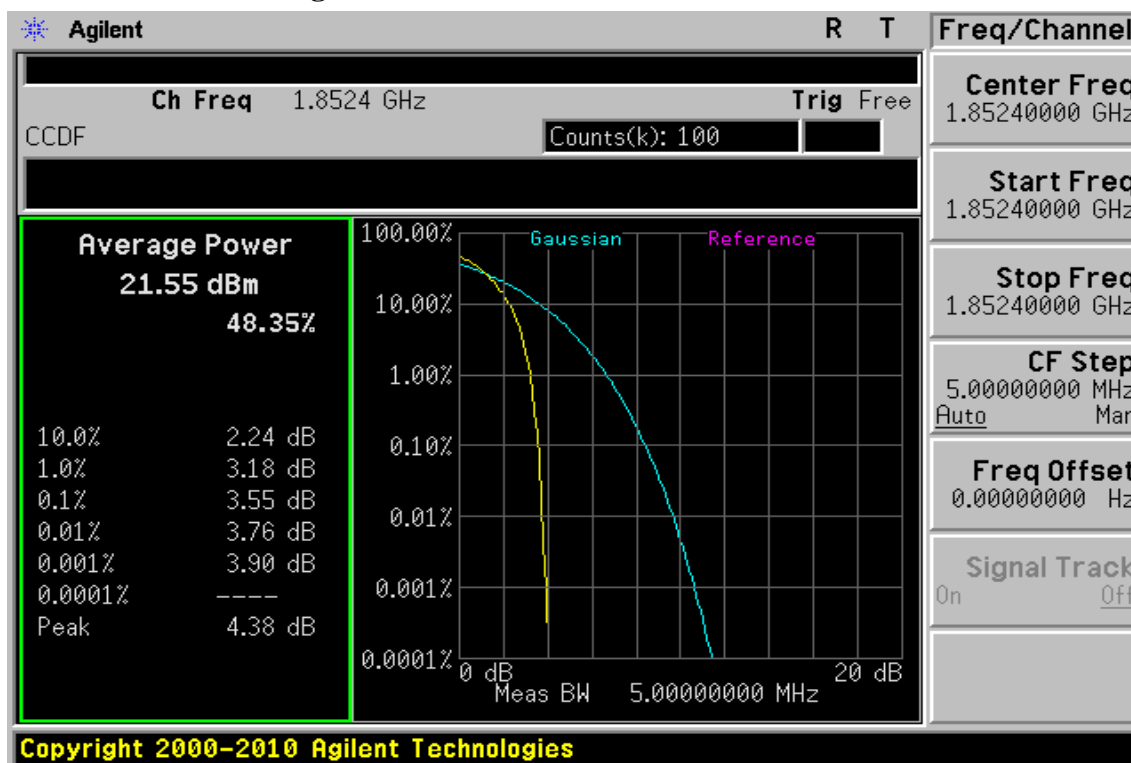
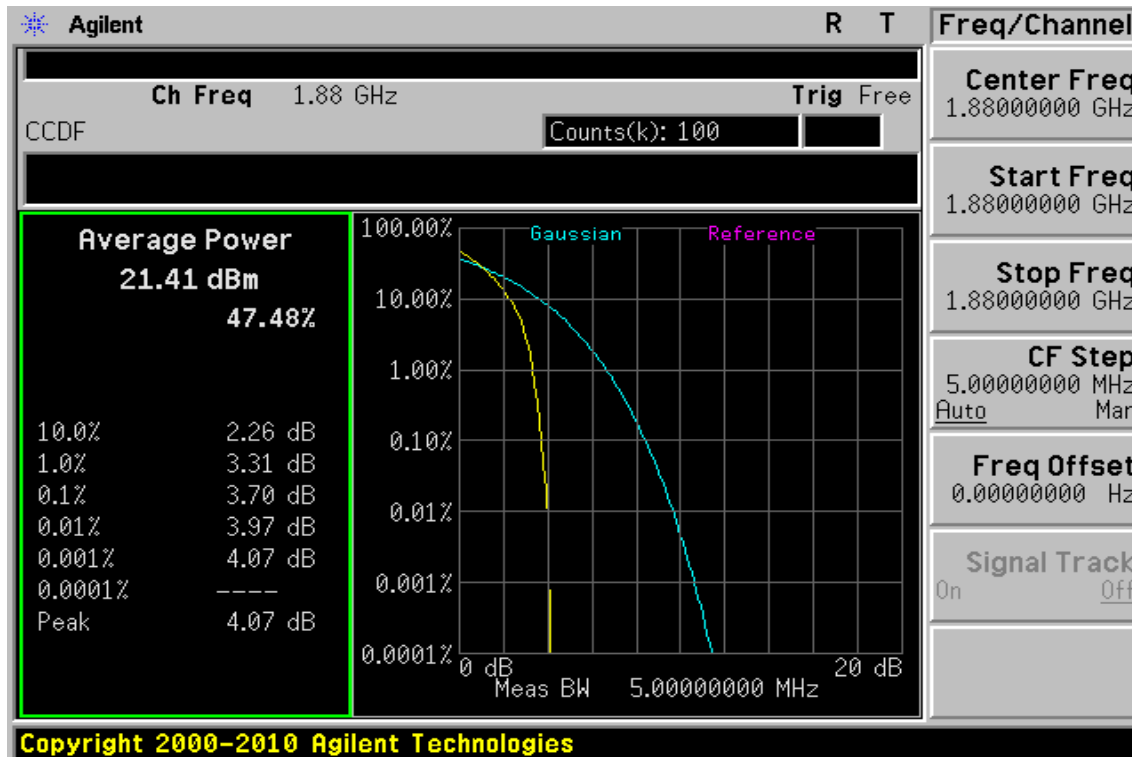


Figure 13-29: HSDPA Band II Channel Mid



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Figure 13-30: HSDPA Band II Channel High

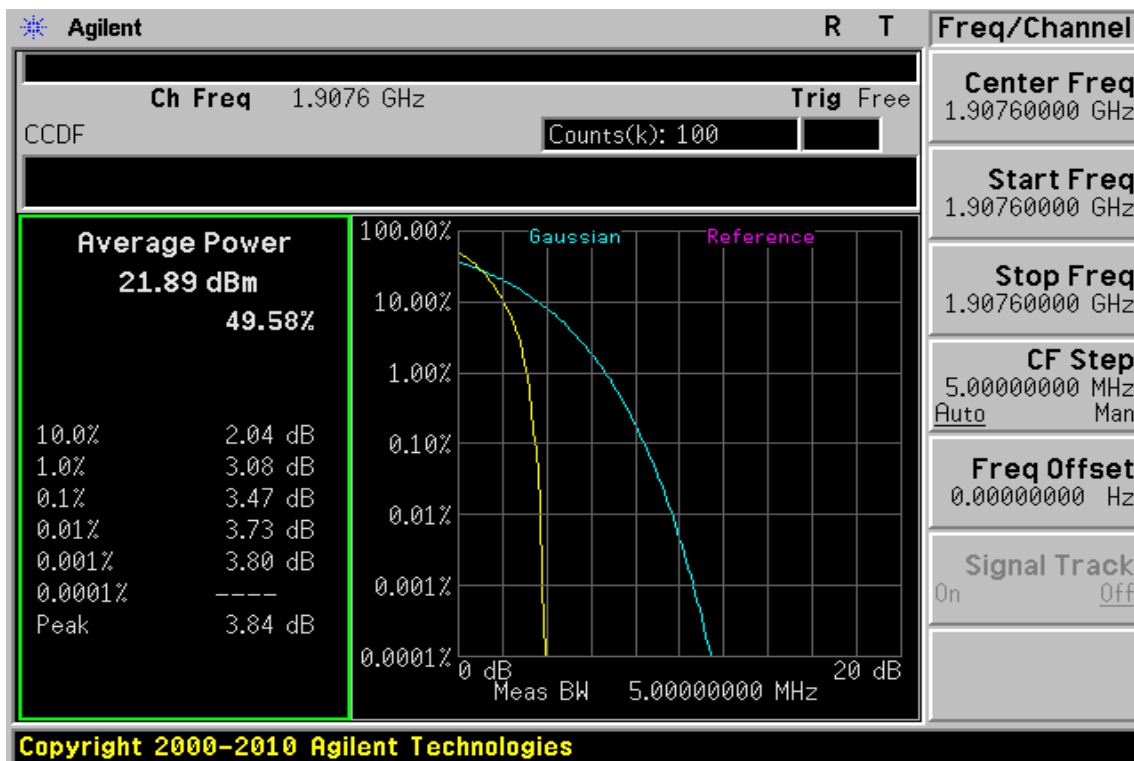
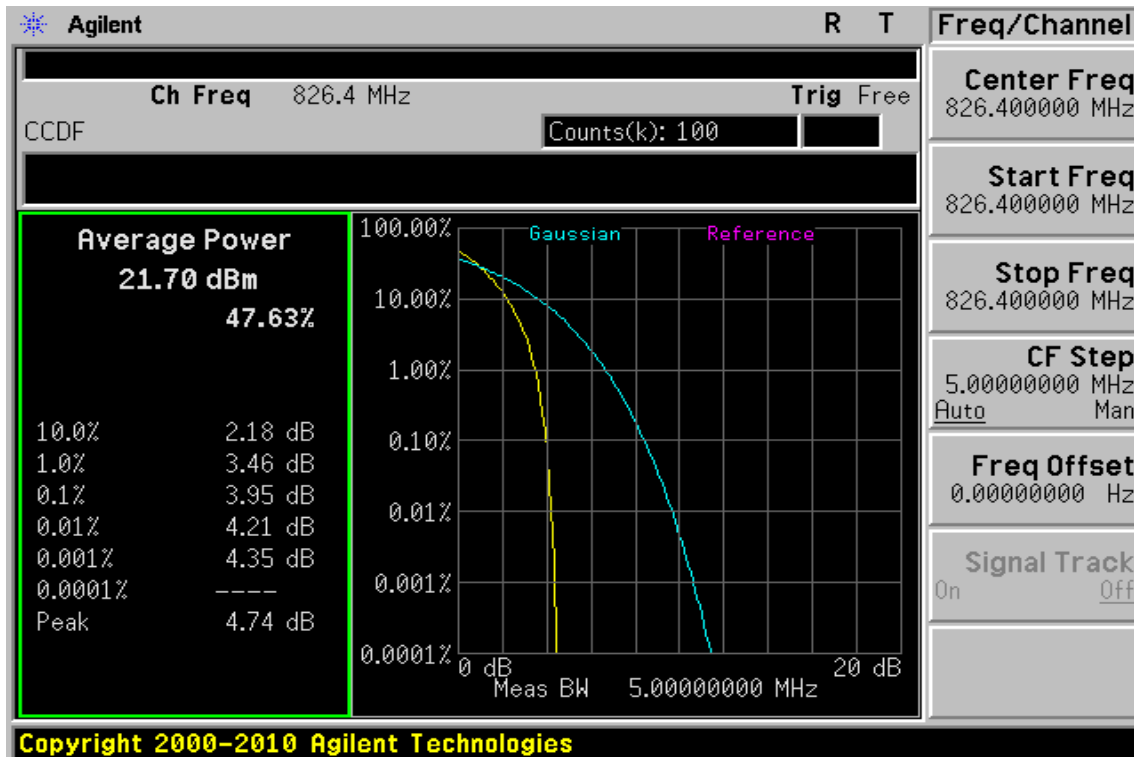


Figure 13-34: HSDPA Band V Channel Low



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Figure 13-35: HSDPA Band V Channel Mid

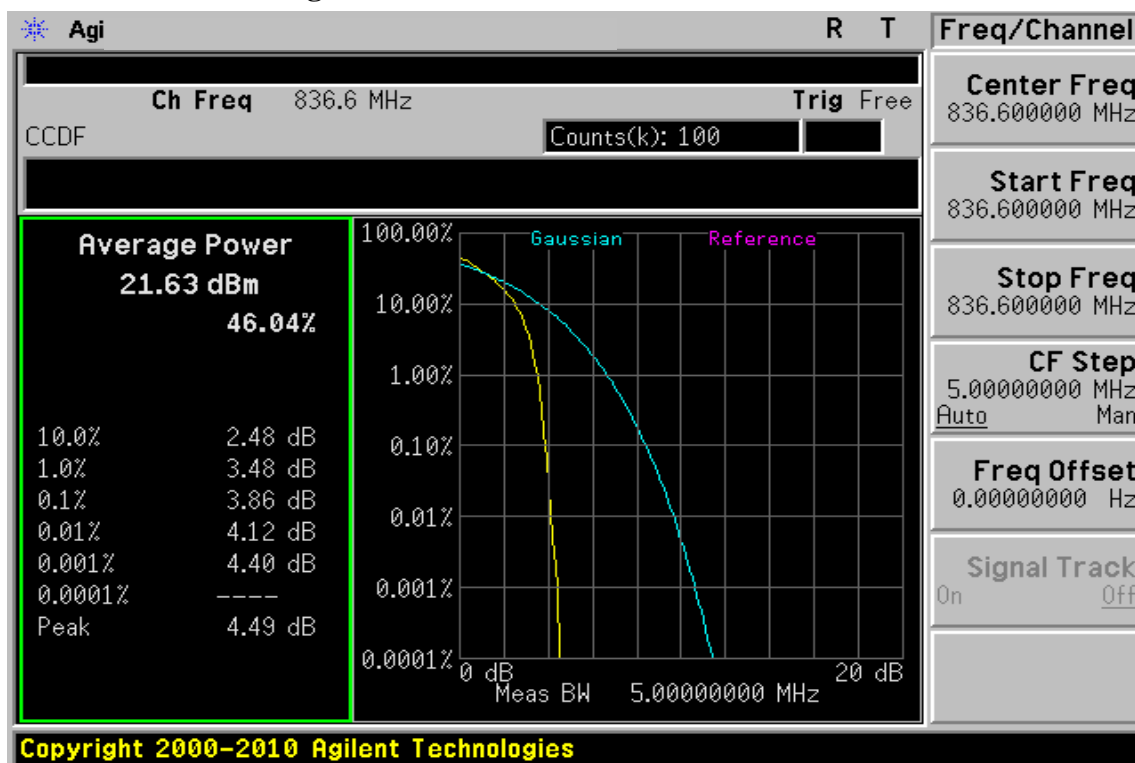
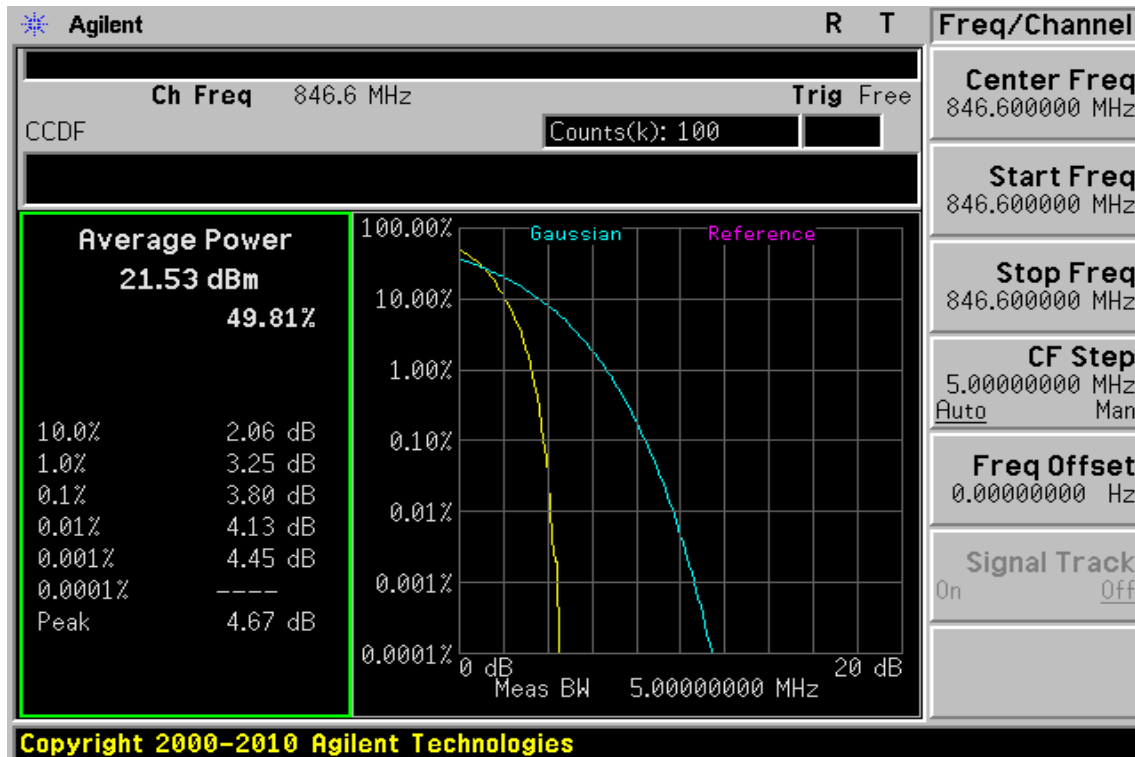


Figure 13-36: HSDPA Band V Channel High



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Figure 13-37: HSUPA Band II Channel Low

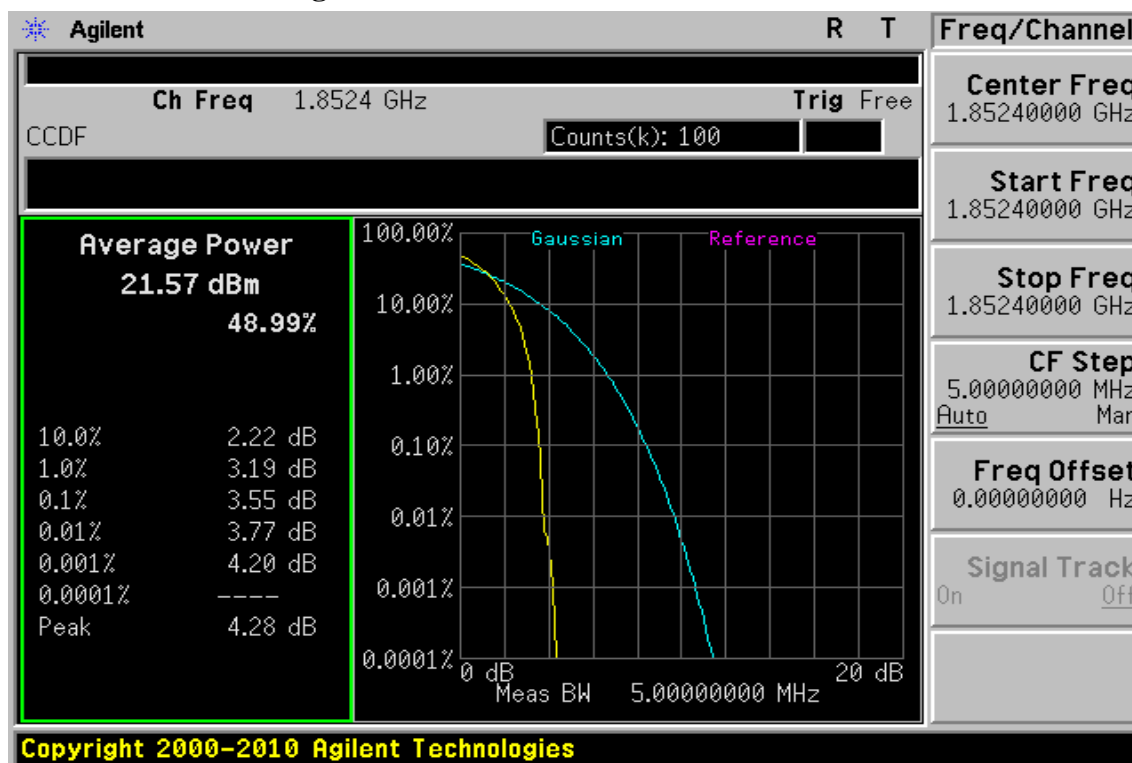
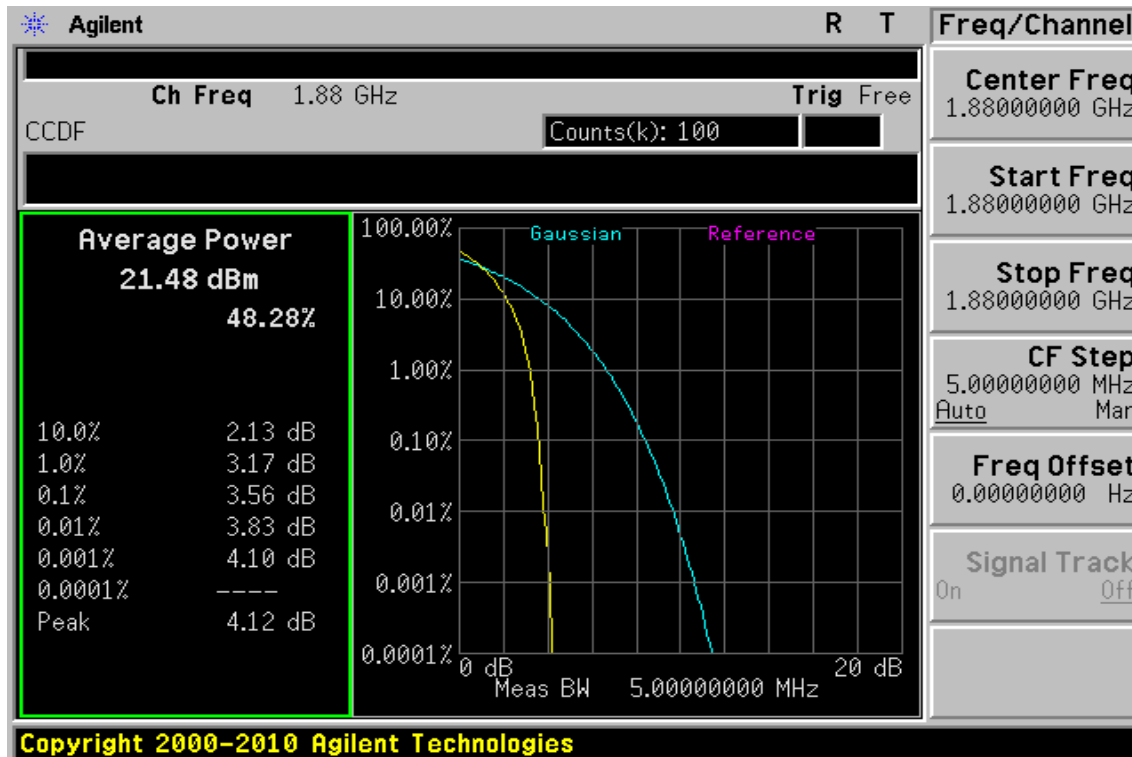


Figure 13-38: HSUPA Band II Channel Mid



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Figure 13-39: HSUPA Band II Channel High

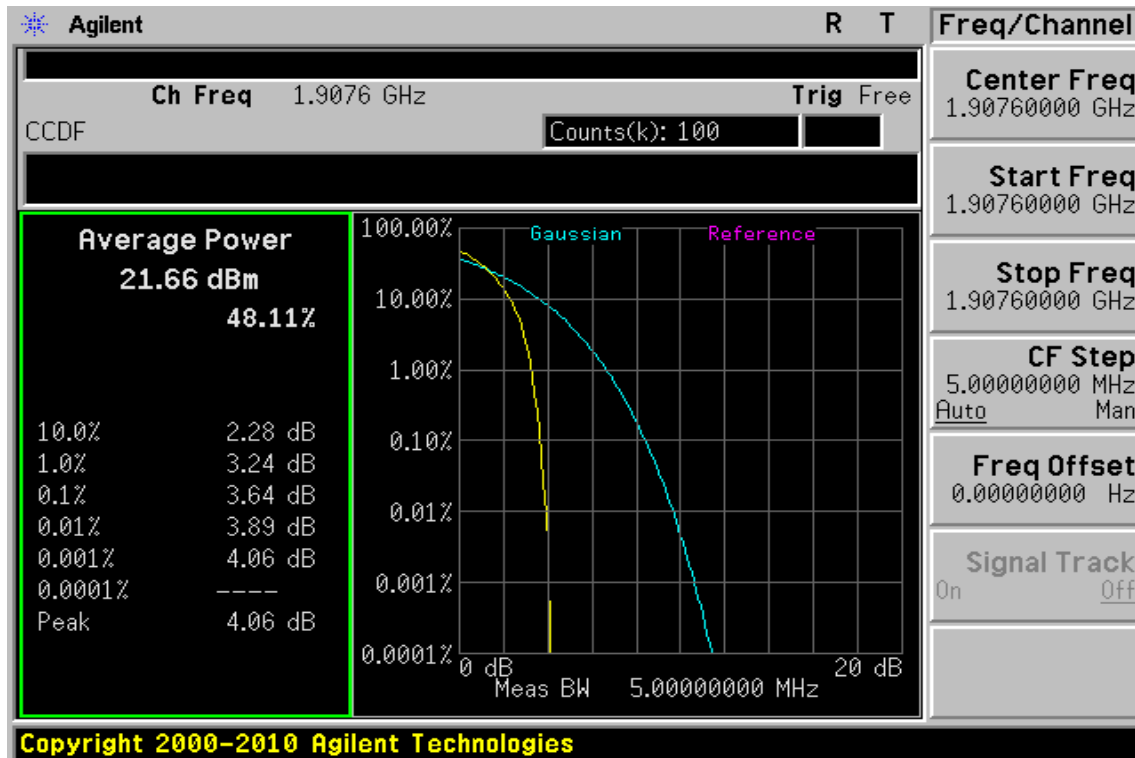
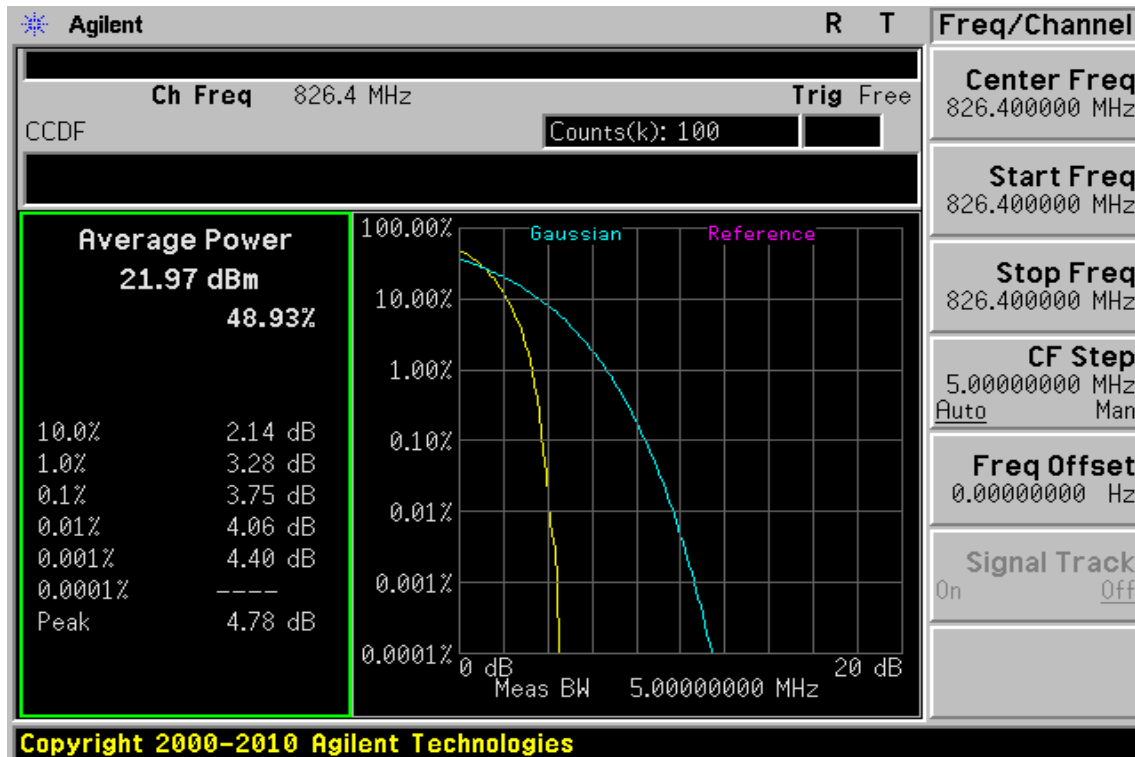


Figure 13-43: HSUPA Band V Channel Low



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Figure 13-44: HSUPA Band V Channel Mid

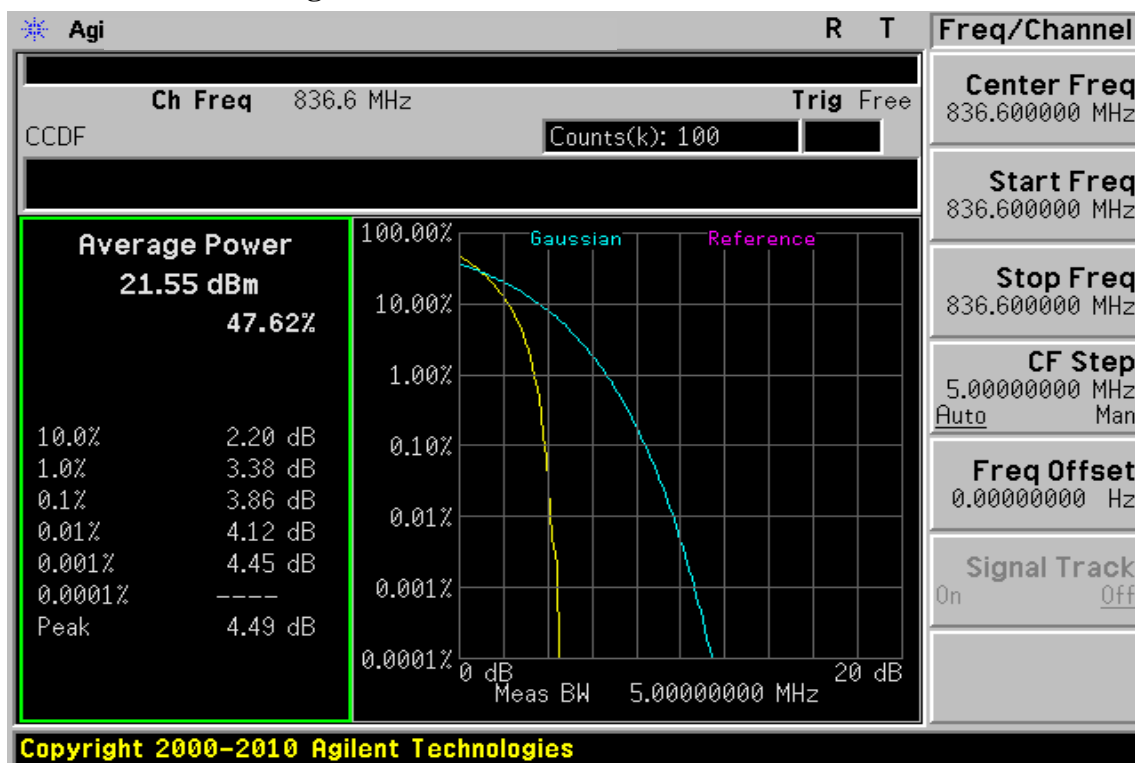
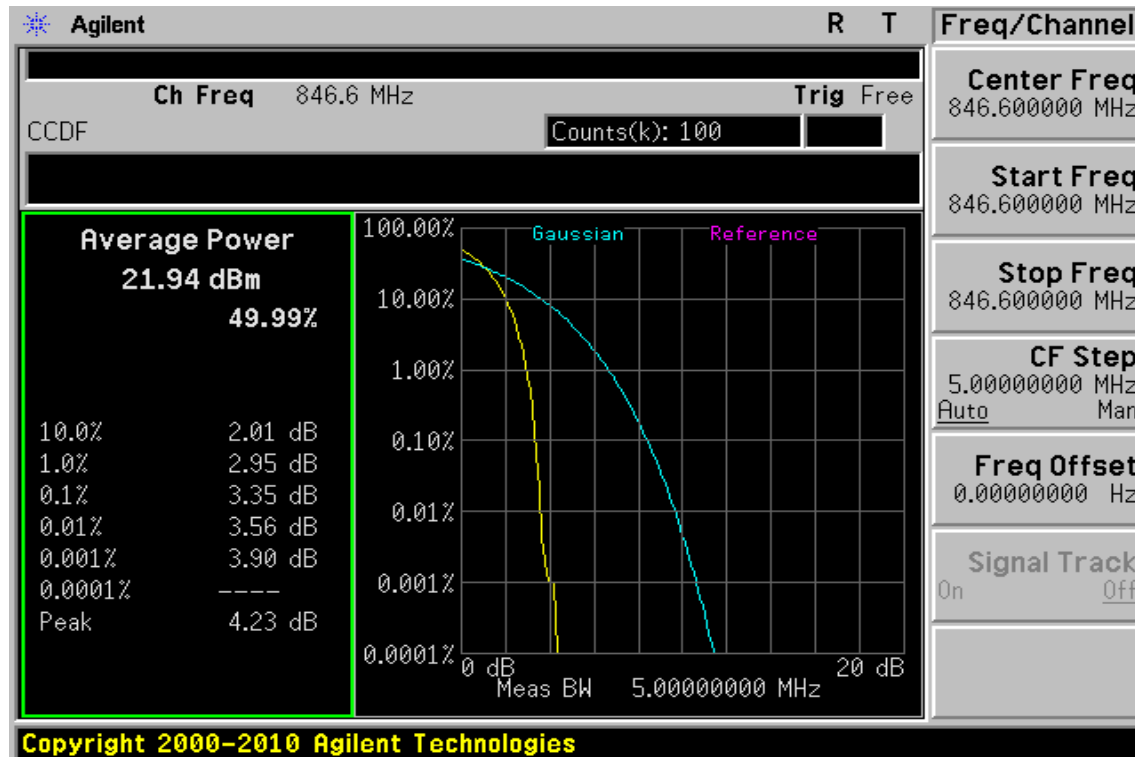


Figure 13-45: HSUPA Band V Channel High



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Figure 13-46: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Low

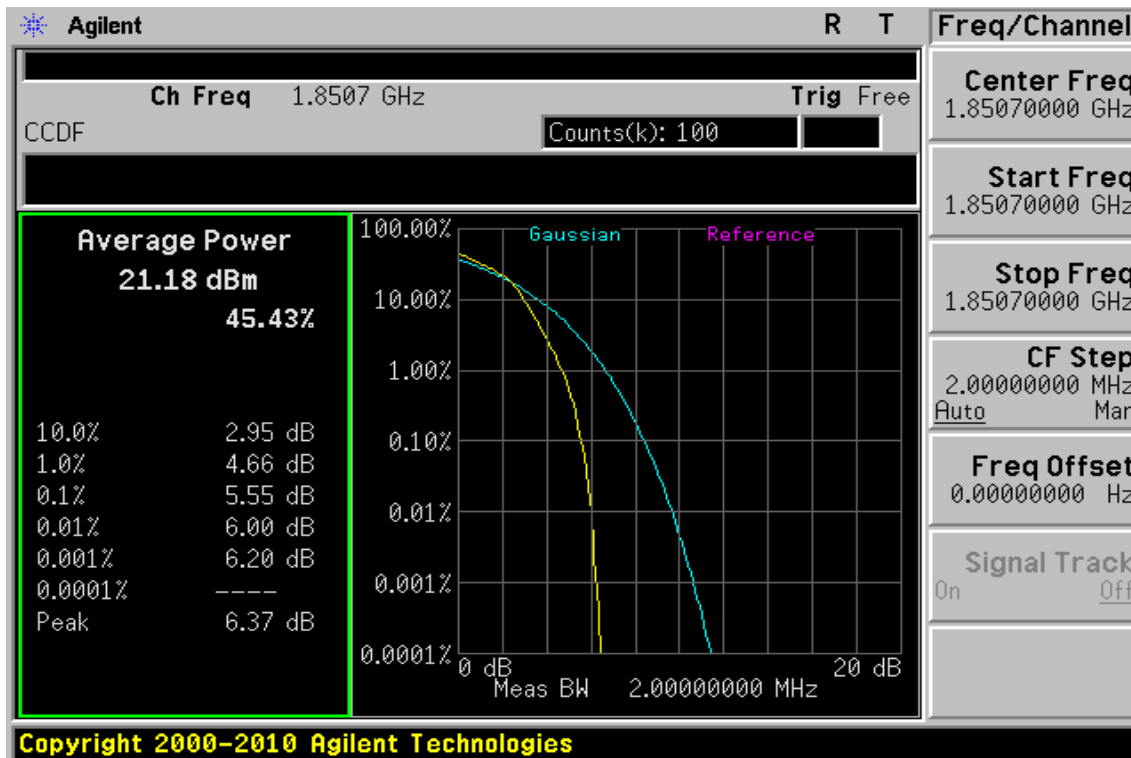
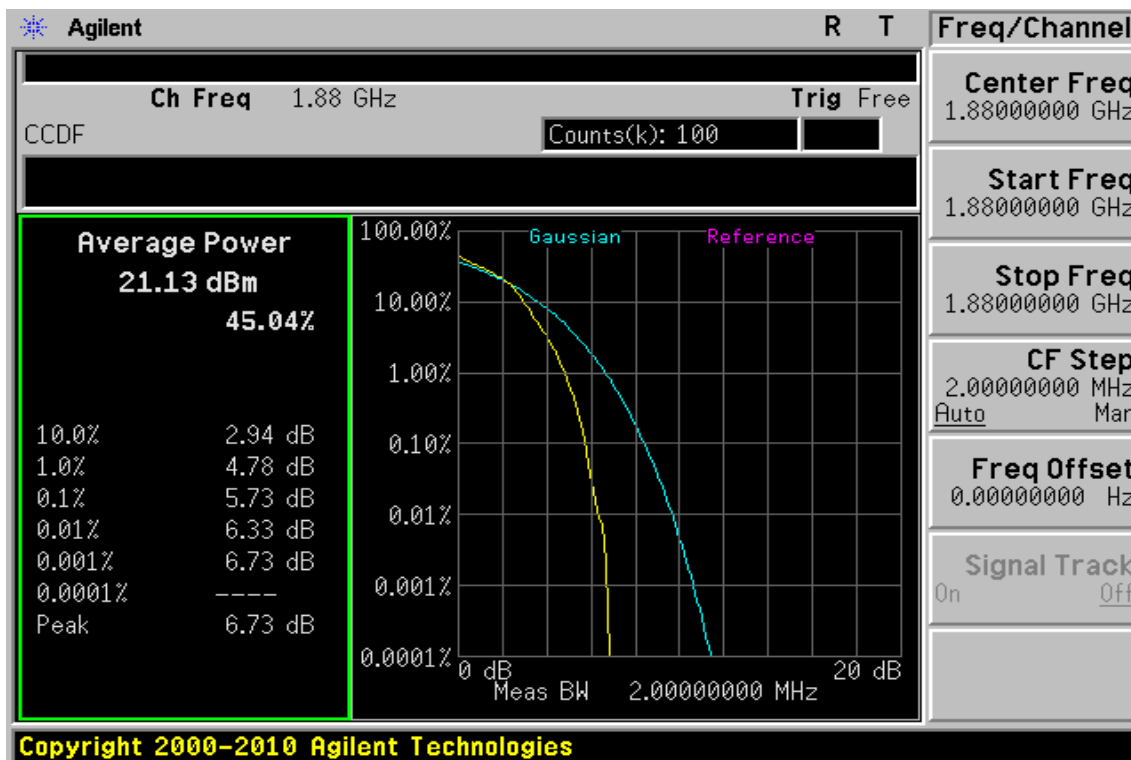


Figure 13-47: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel Mid



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Figure 13-48: 1.4MHz BW LTE-Band 2(16QAM Number: 6 Offset: 0) Channel High

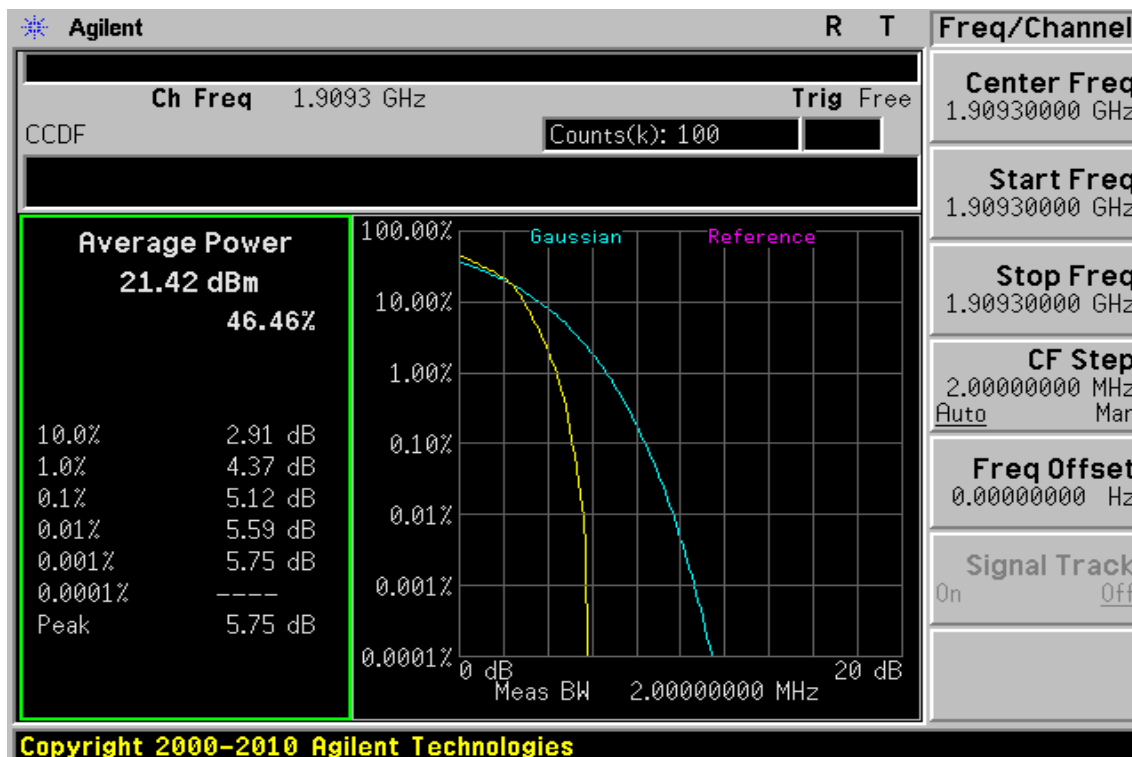
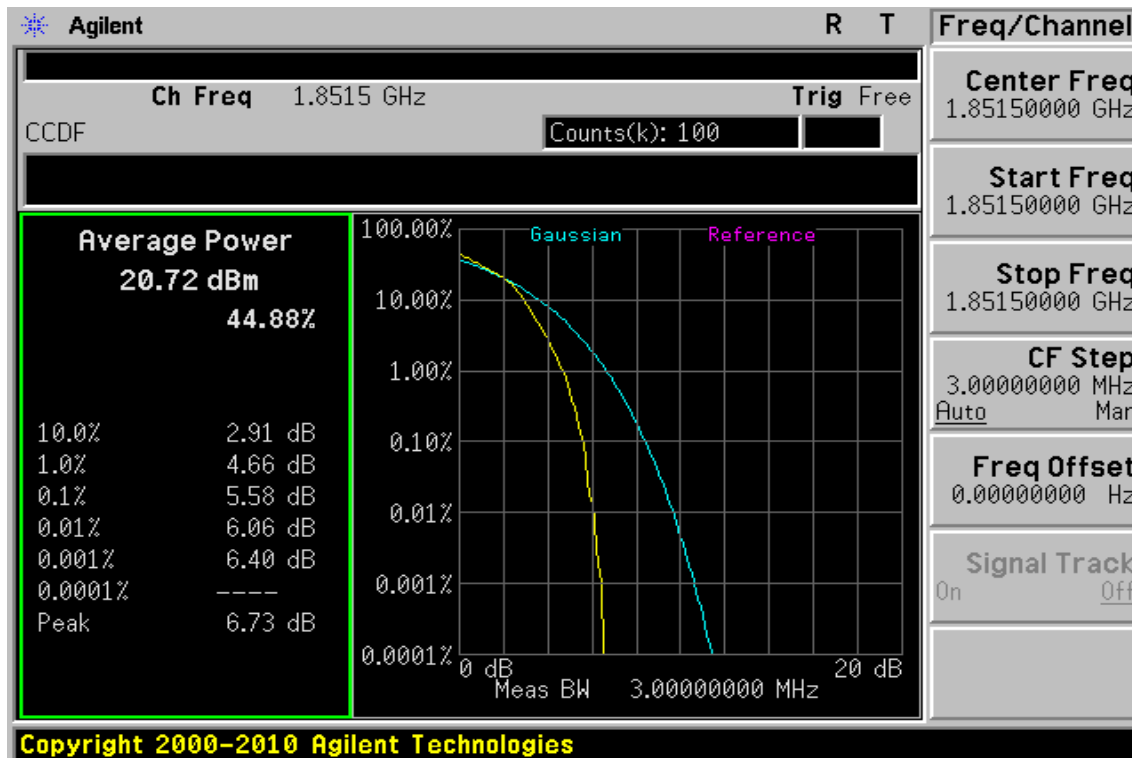


Figure 13-49: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Low



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Figure 13-50: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel Mid

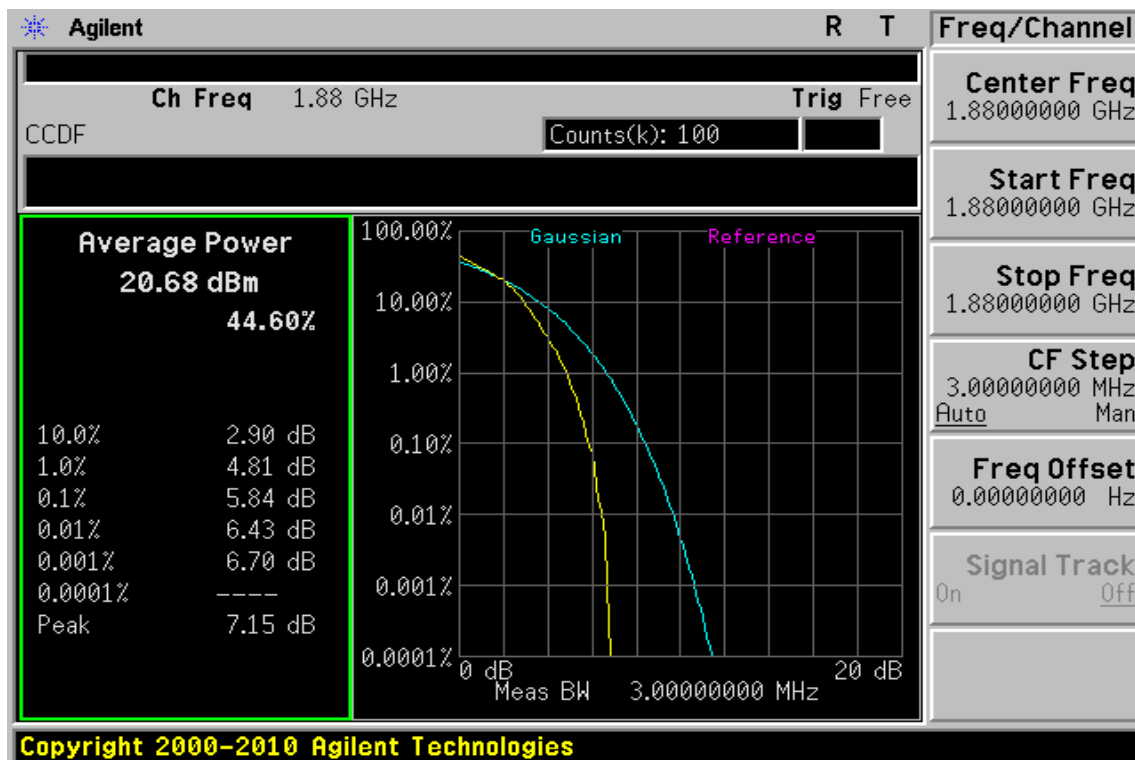
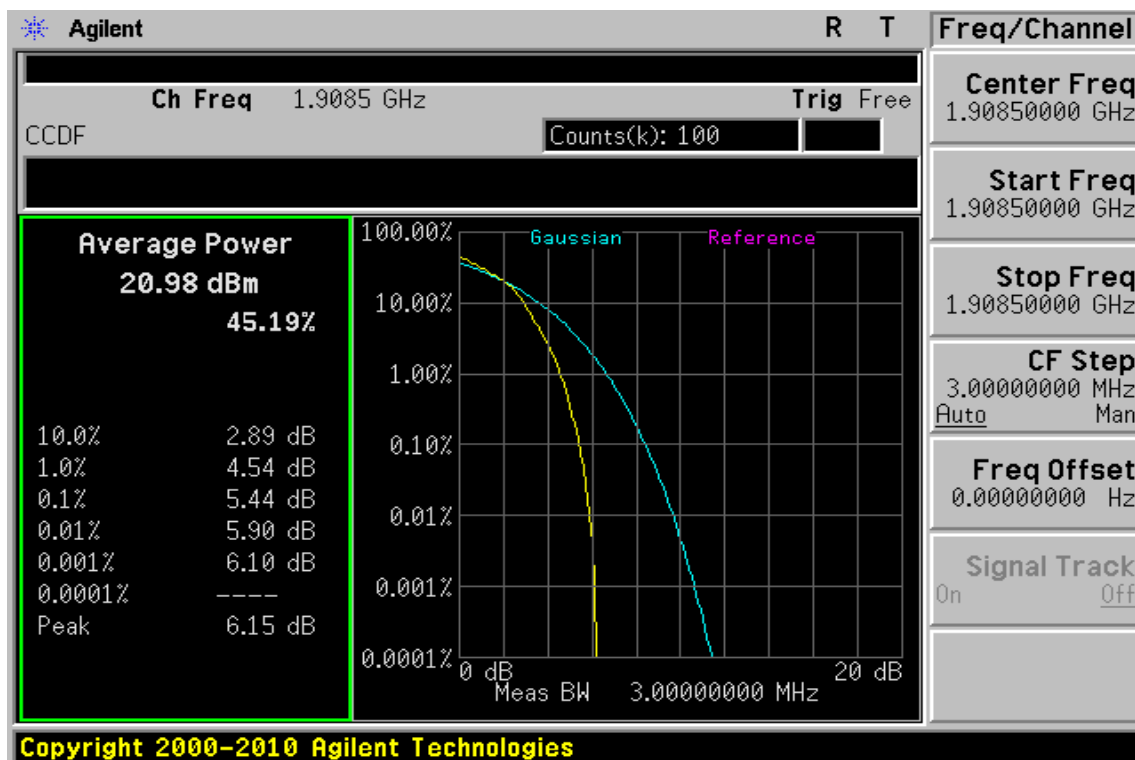


Figure 13-51: 3MHz BW LTE-Band 2(16QAM Number: 15 Offset: 0) Channel High



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Figure 13-52: 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Low

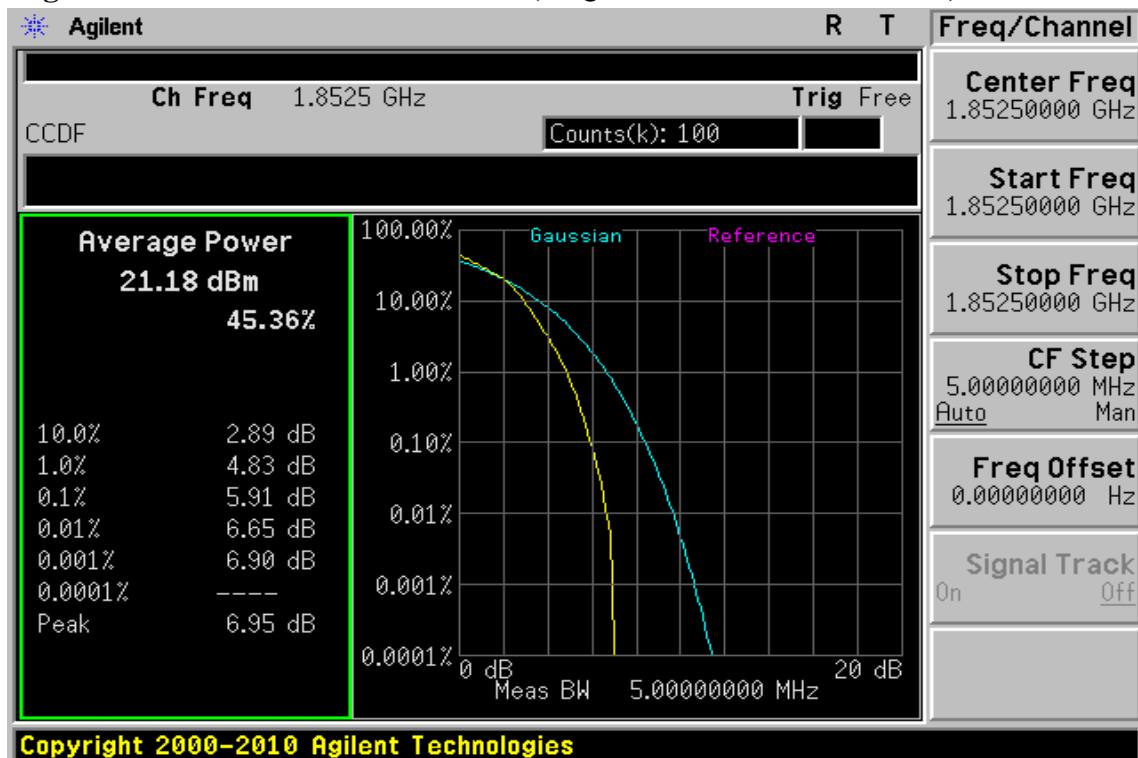
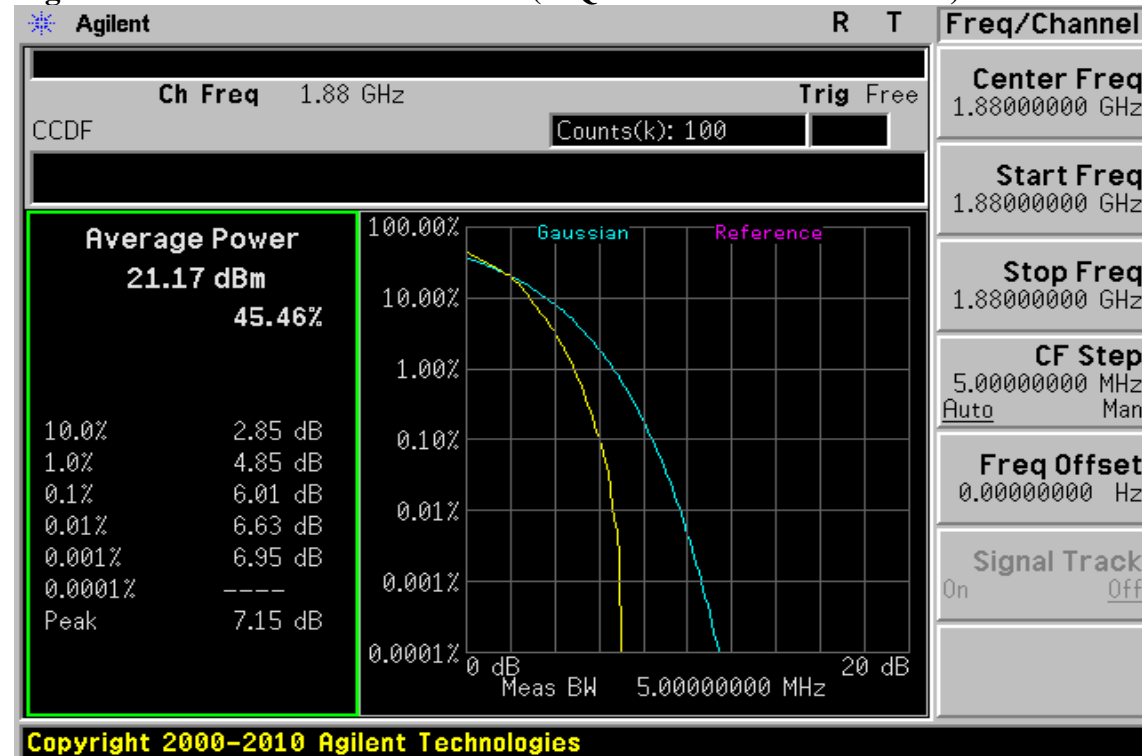


Figure 13-53: 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel Mid

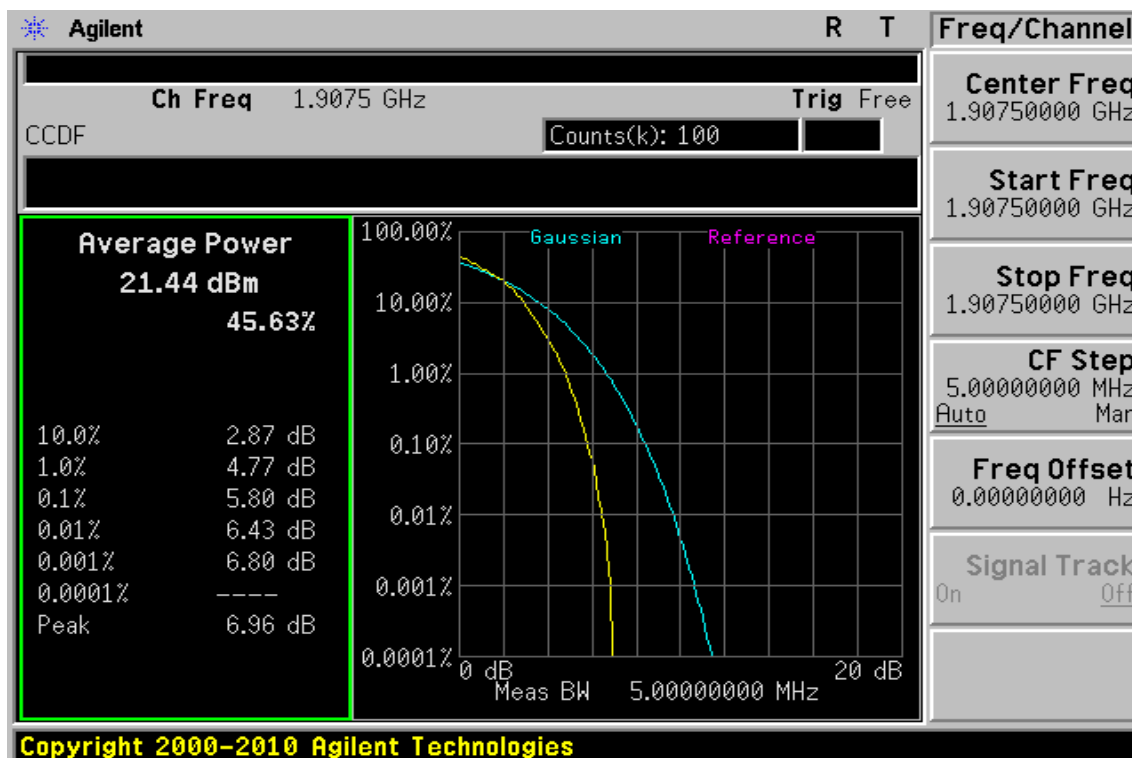
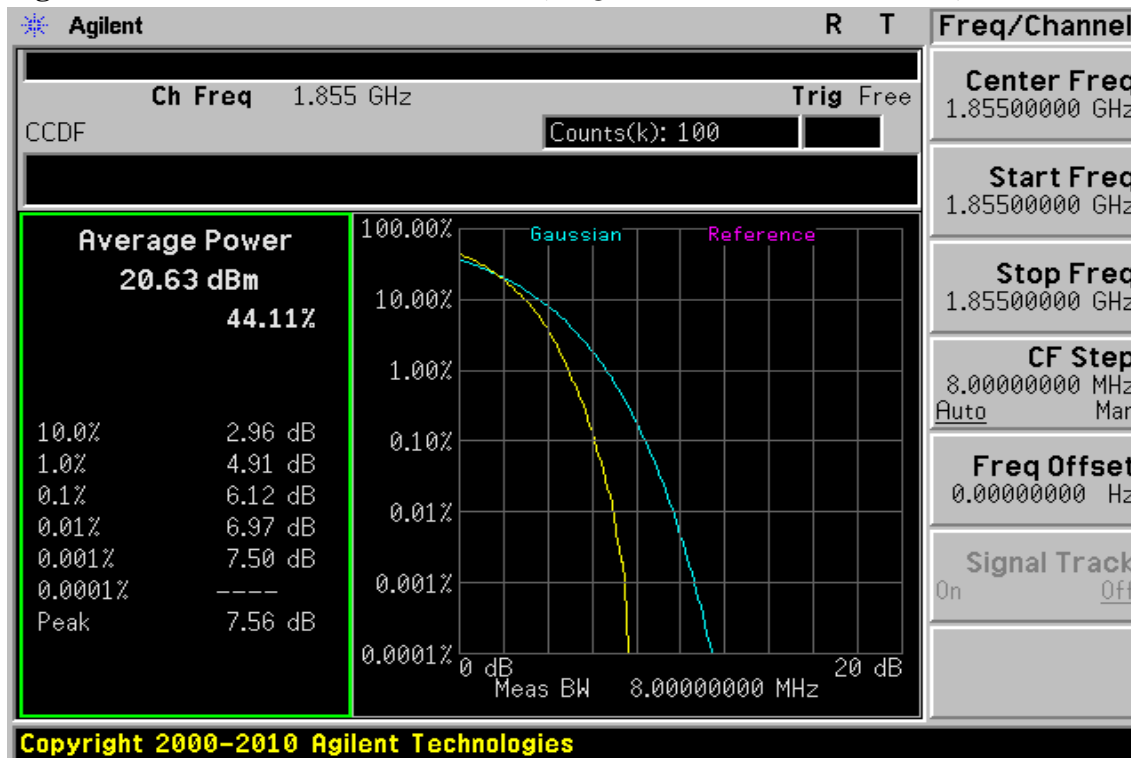


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**Figure 13-54: 5MHz BW LTE-Band 2(16QAM Number: 25 Offset: 0) Channel High**

**Figure 13-55: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Low**


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Figure 13-56: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel Mid

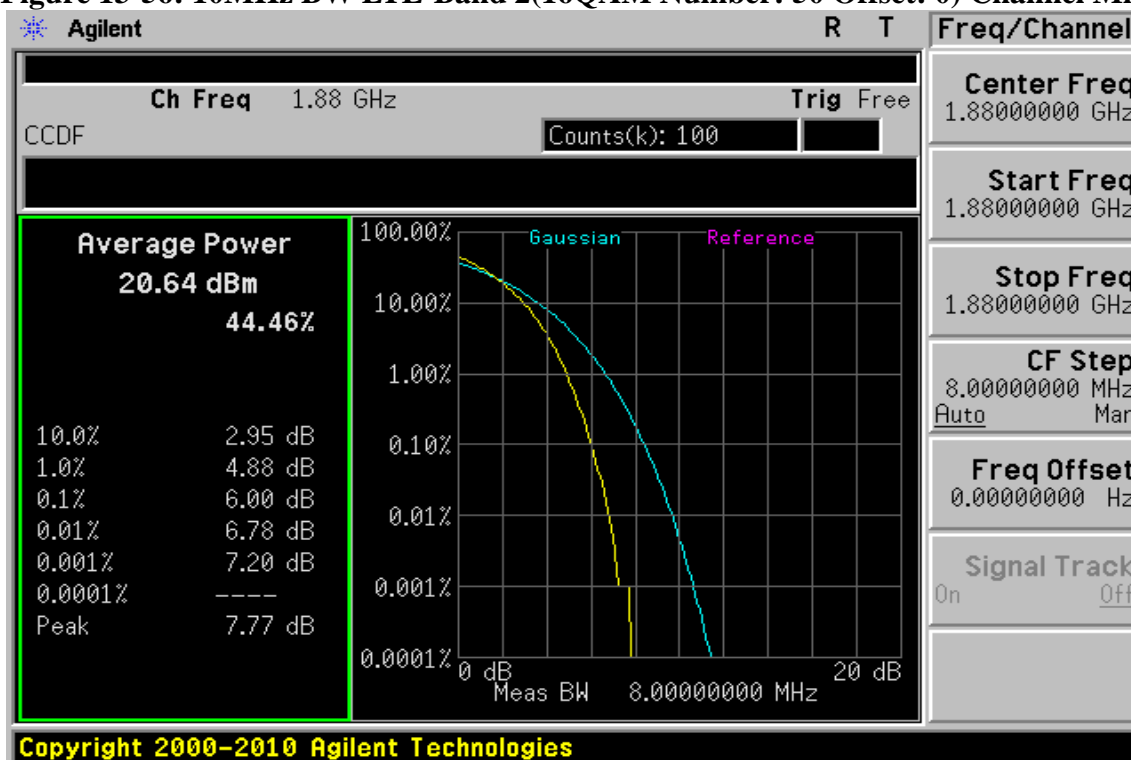
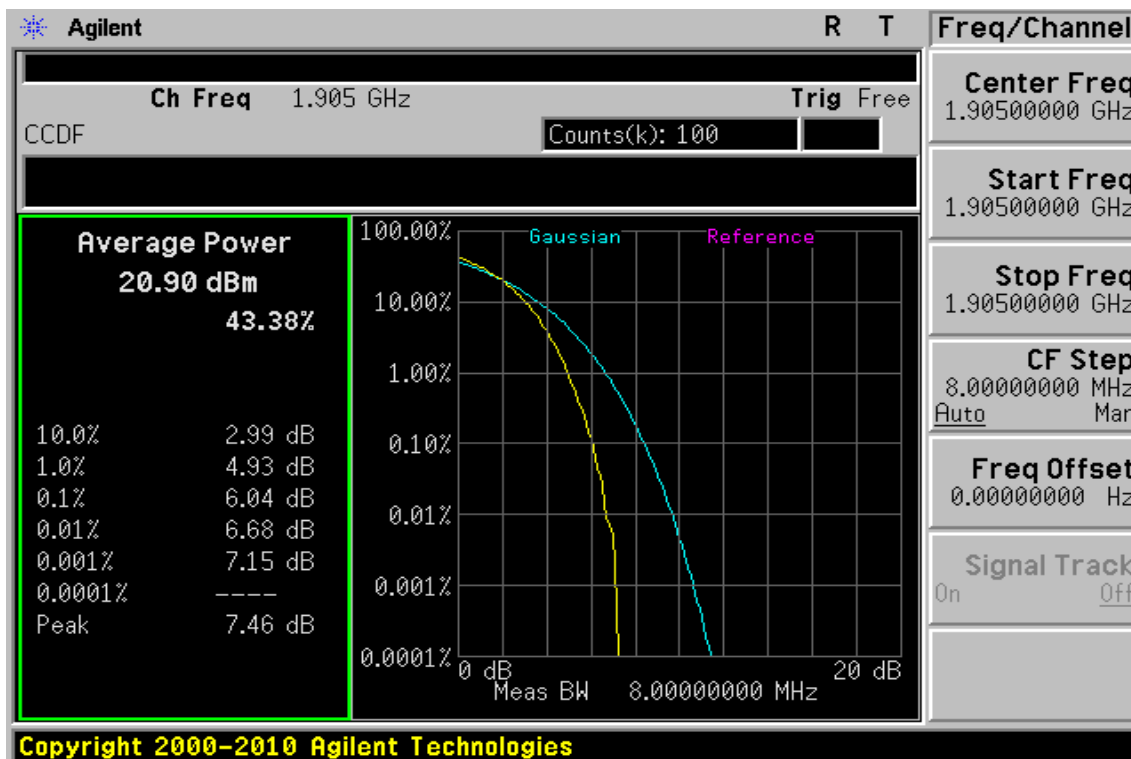


Figure 13-57: 10MHz BW LTE-Band 2(16QAM Number: 50 Offset: 0) Channel High



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Figure 13-58: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Low

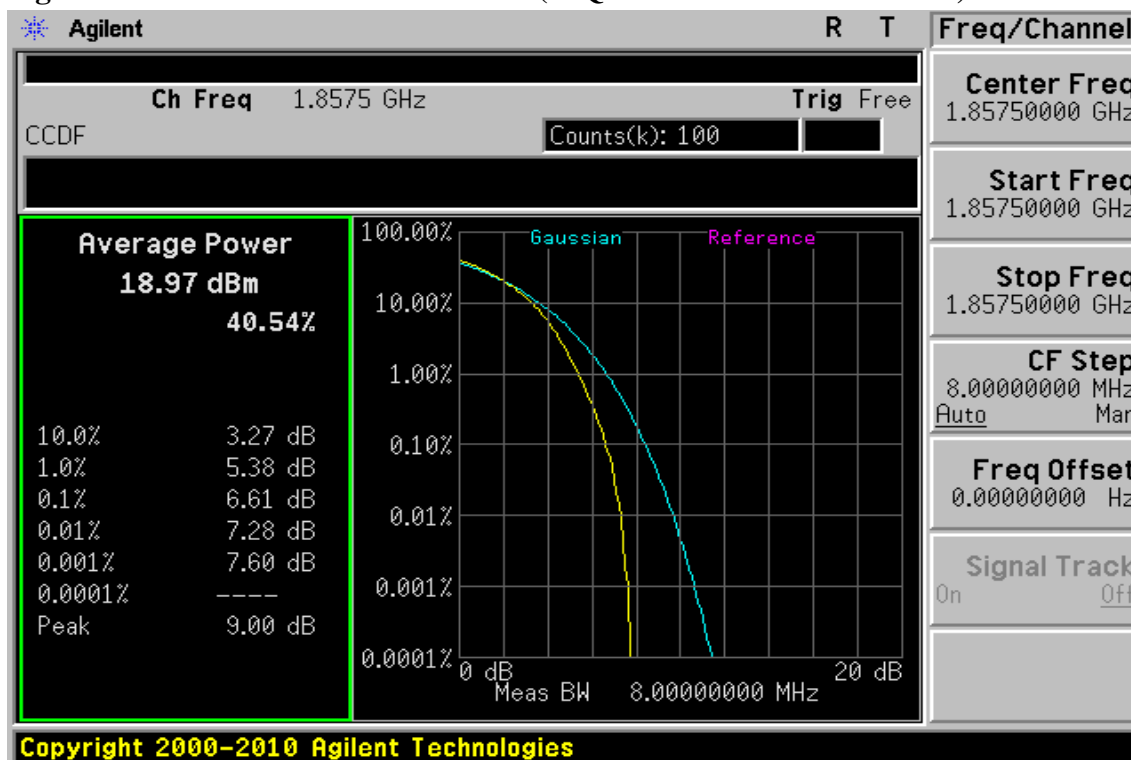
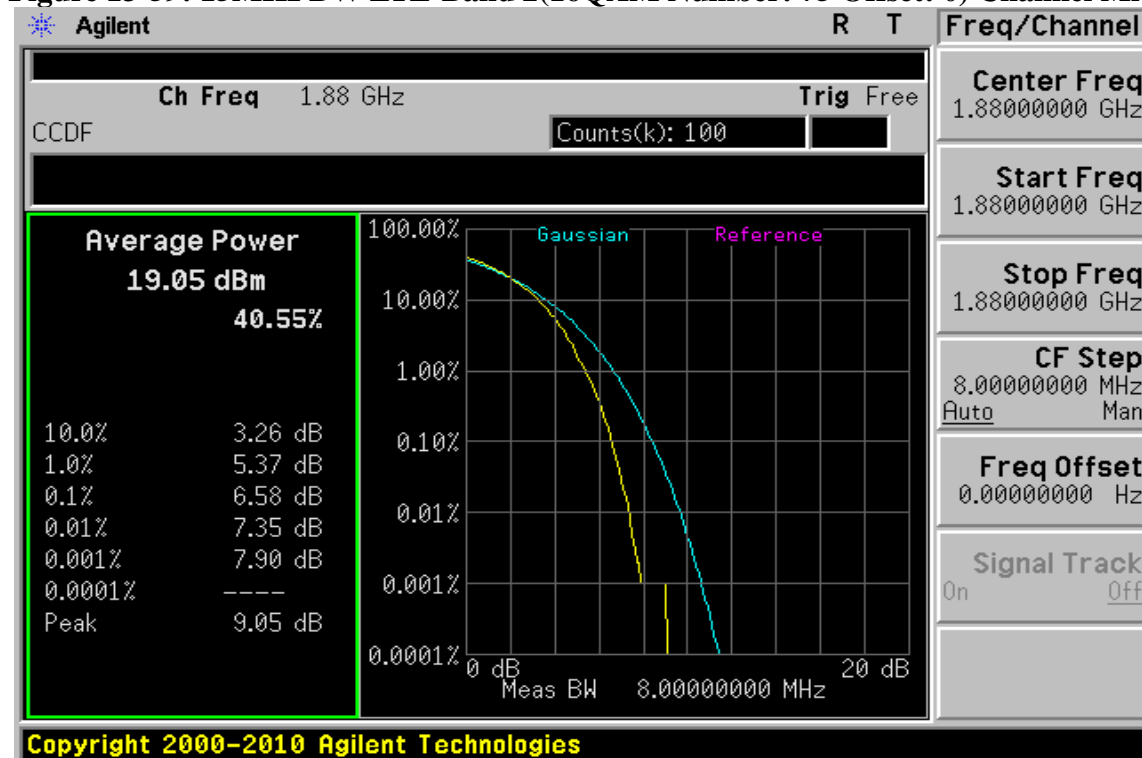


Figure 13-59: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel Mid



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Figure 13-60: 15MHz BW LTE-Band 2(16QAM Number: 75 Offset: 0) Channel High

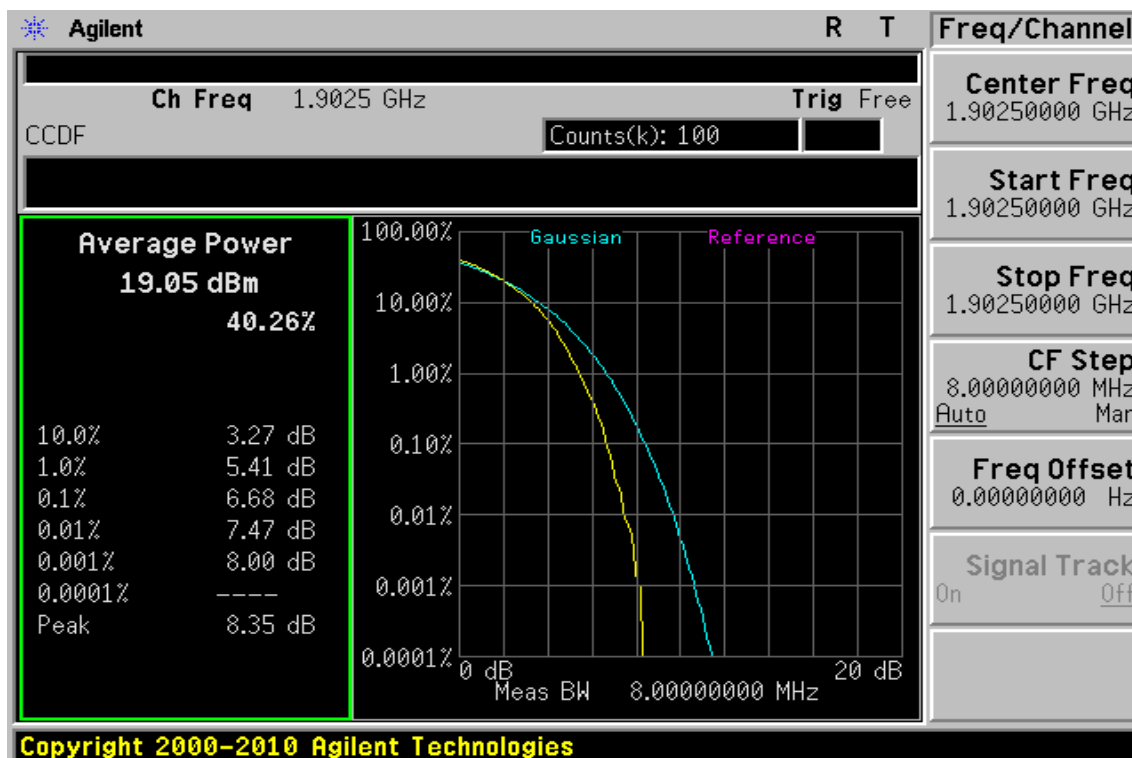
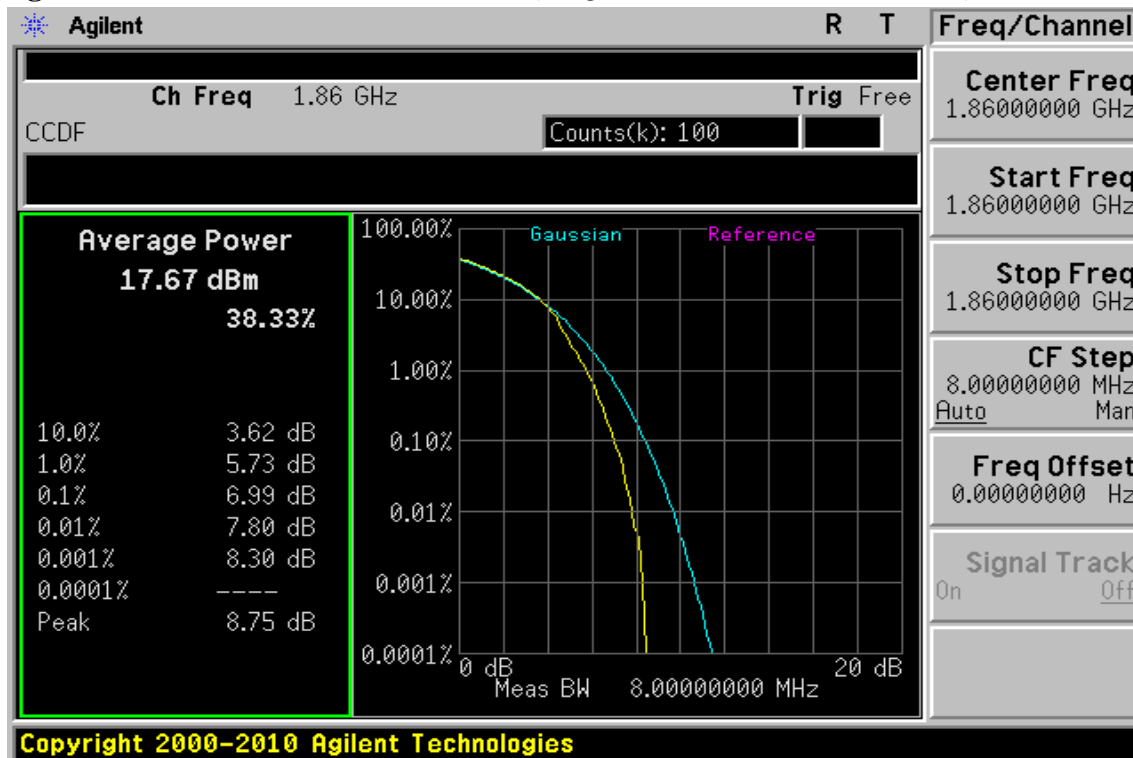


Figure 13-61: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Low



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Figure 13-62: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel Mid

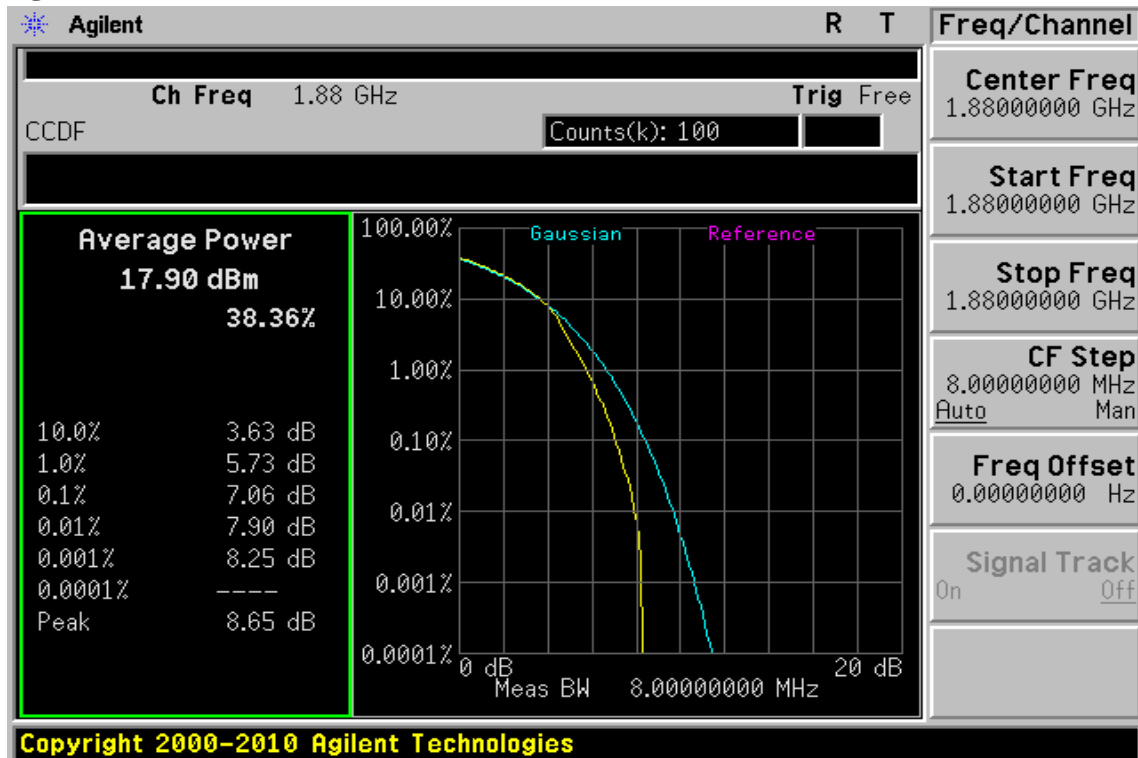
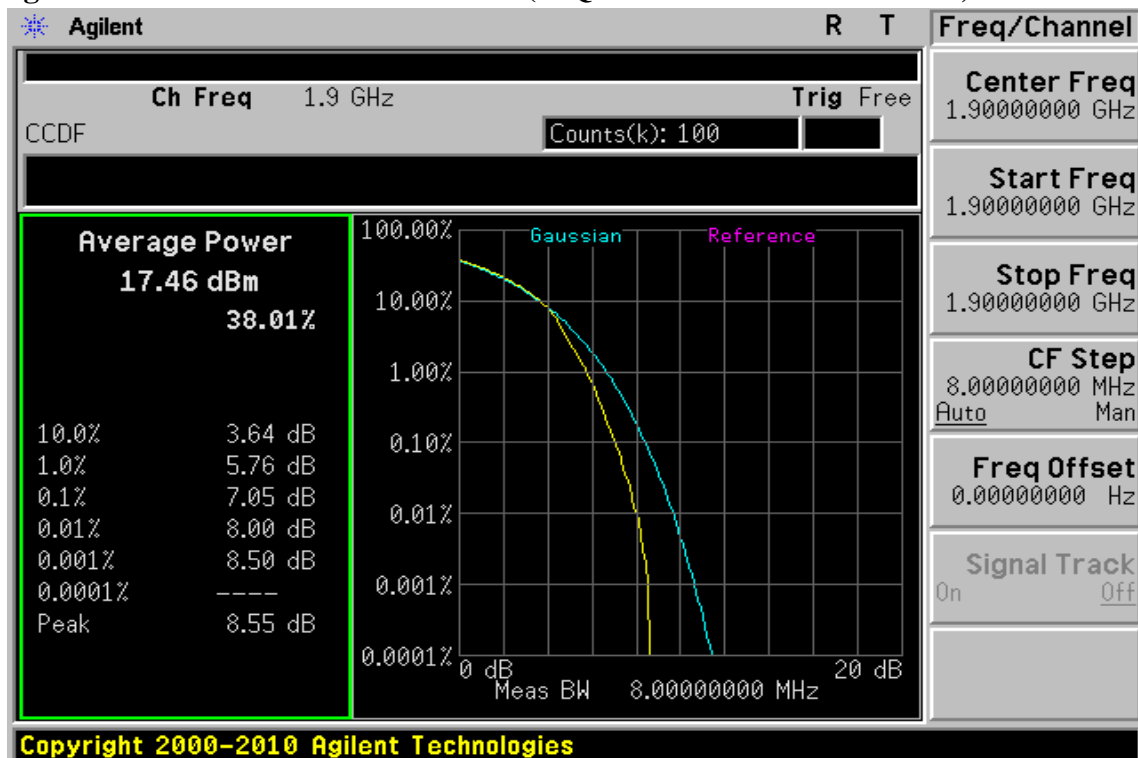


Figure 13-63: 20MHz BW LTE-Band 2(16QAM Number: 100 Offset: 0) Channel High



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Figure 13-64: 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Low

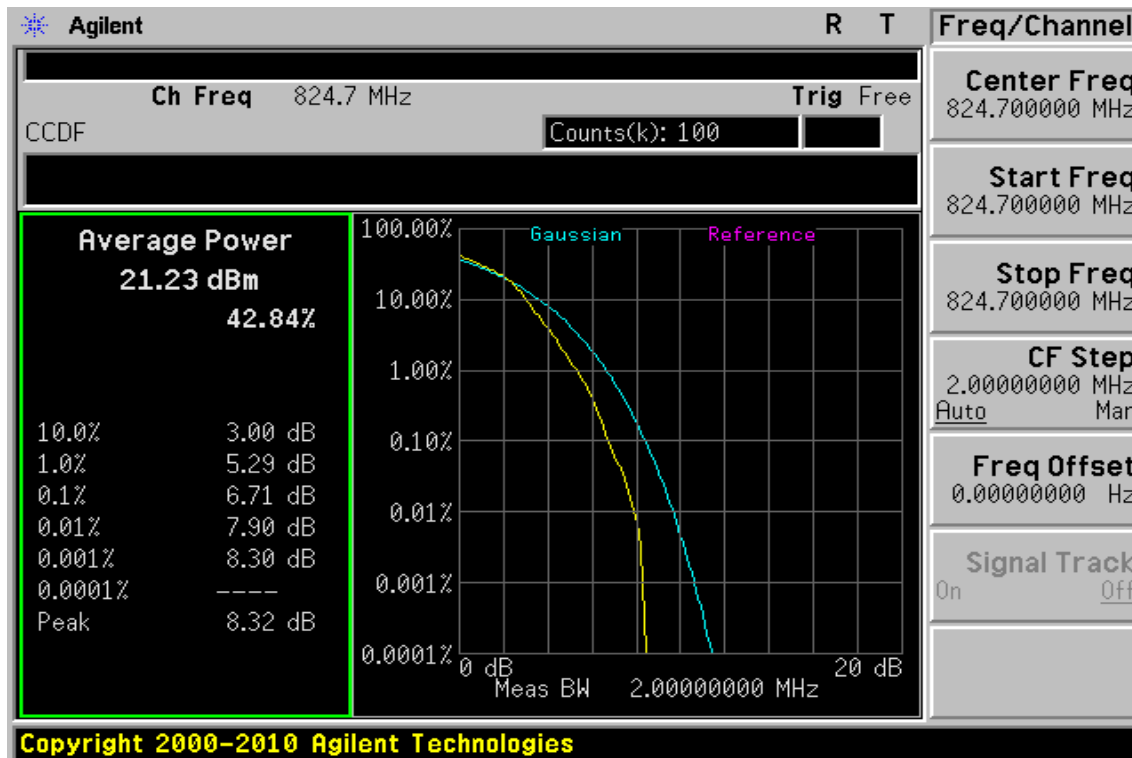
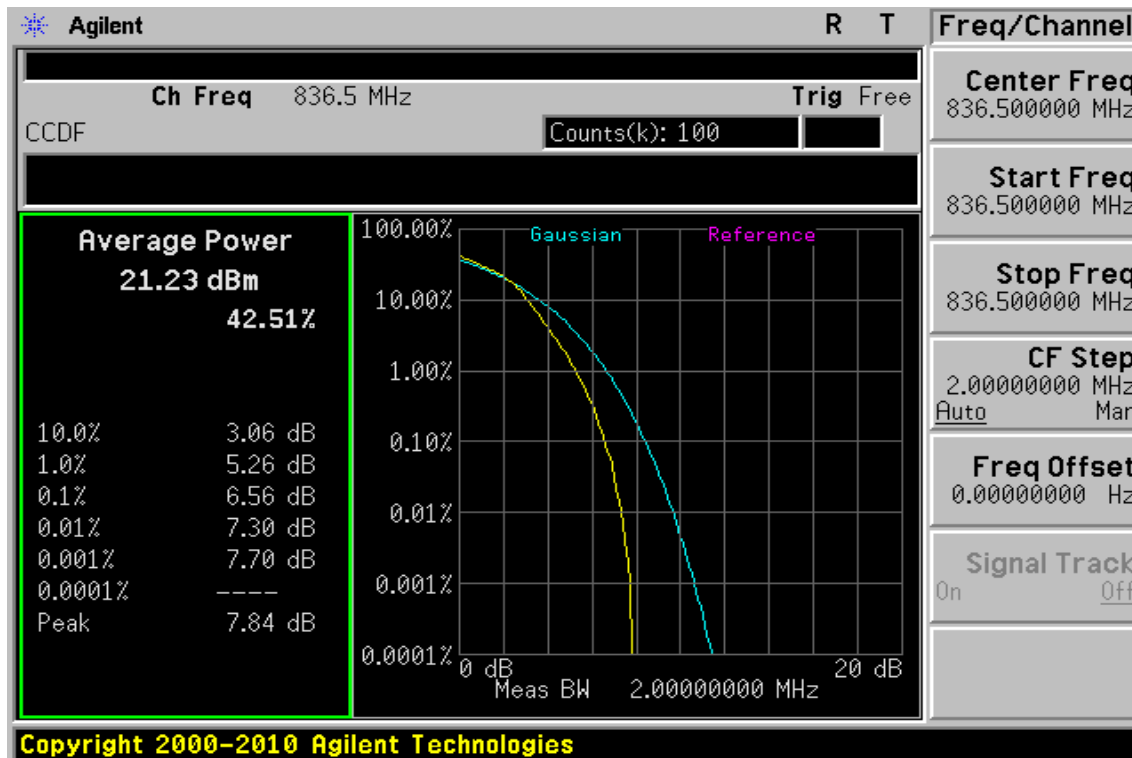


Figure 13-65: 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel Mid



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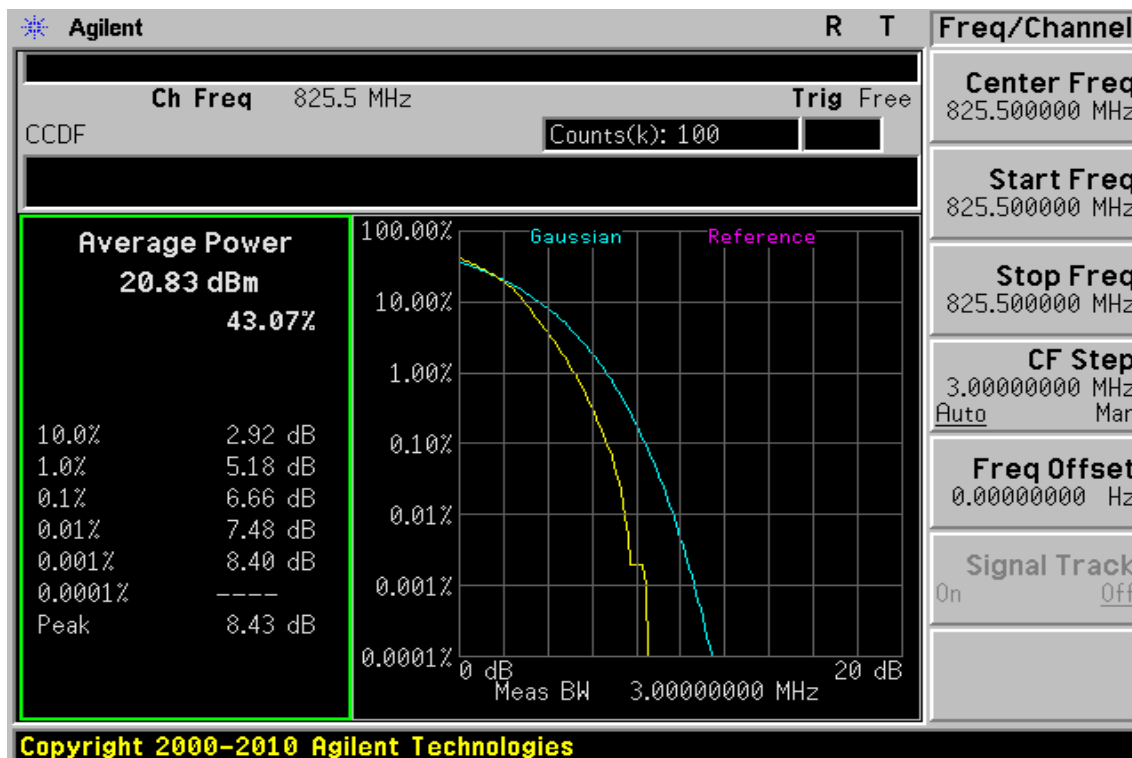
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Figure 13-66: 1.4MHz BW LTE-Band 5(16QAM Number: 6 Offset: 0) Channel High



Figure 13-67: 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Low



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Figure 13-68: 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel Mid

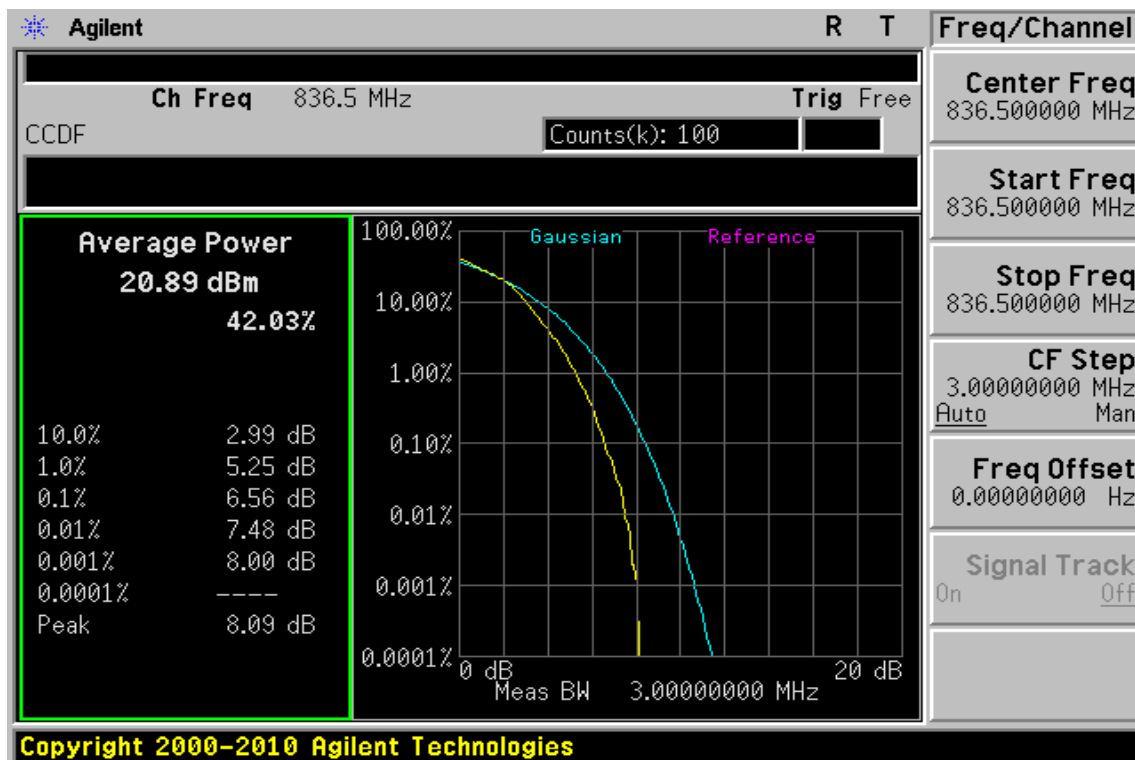


Figure 13-69: 3MHz BW LTE-Band 5(16QAM Number: 15 Offset: 0) Channel High



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Figure 13-70: 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Low

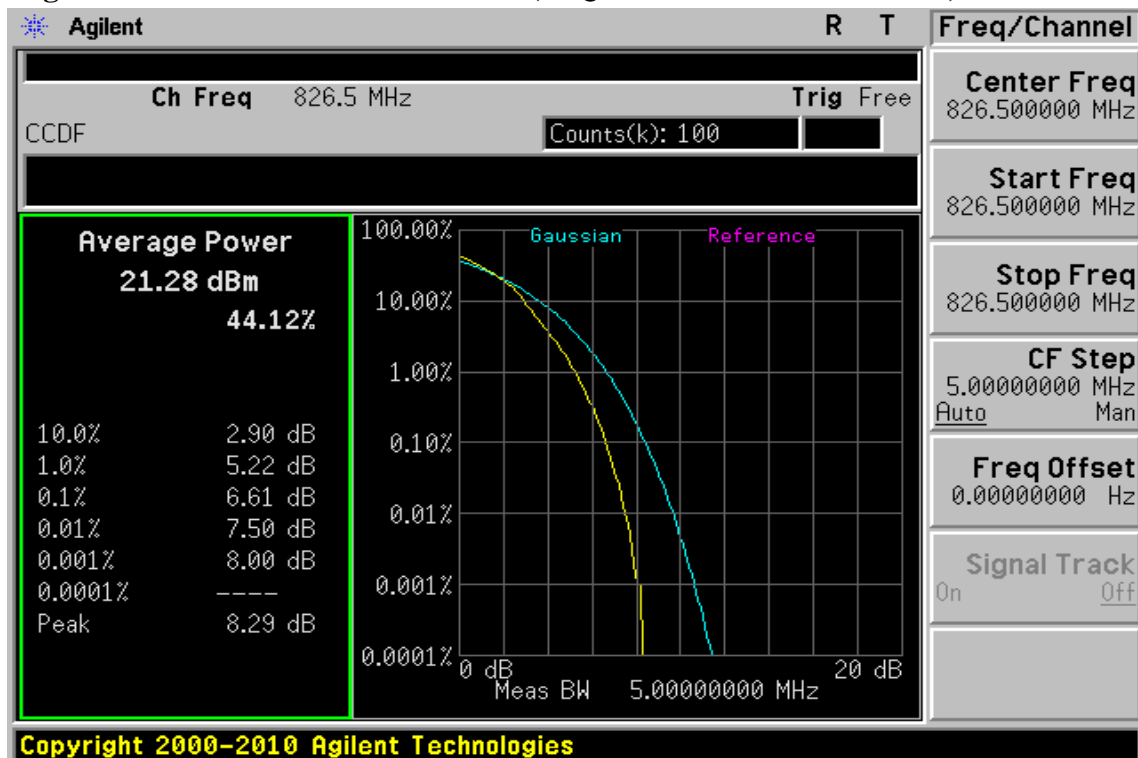
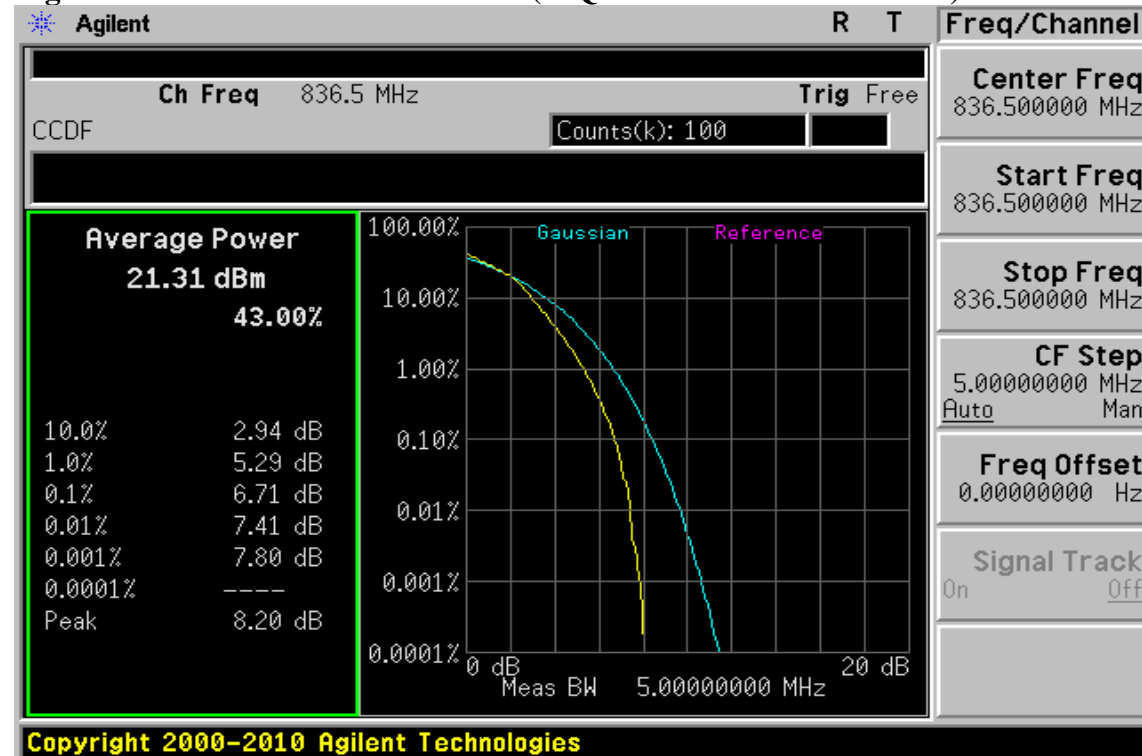


Figure 13-71: 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 13-72: 5MHz BW LTE-Band 5(16QAM Number: 25 Offset: 0) Channel High

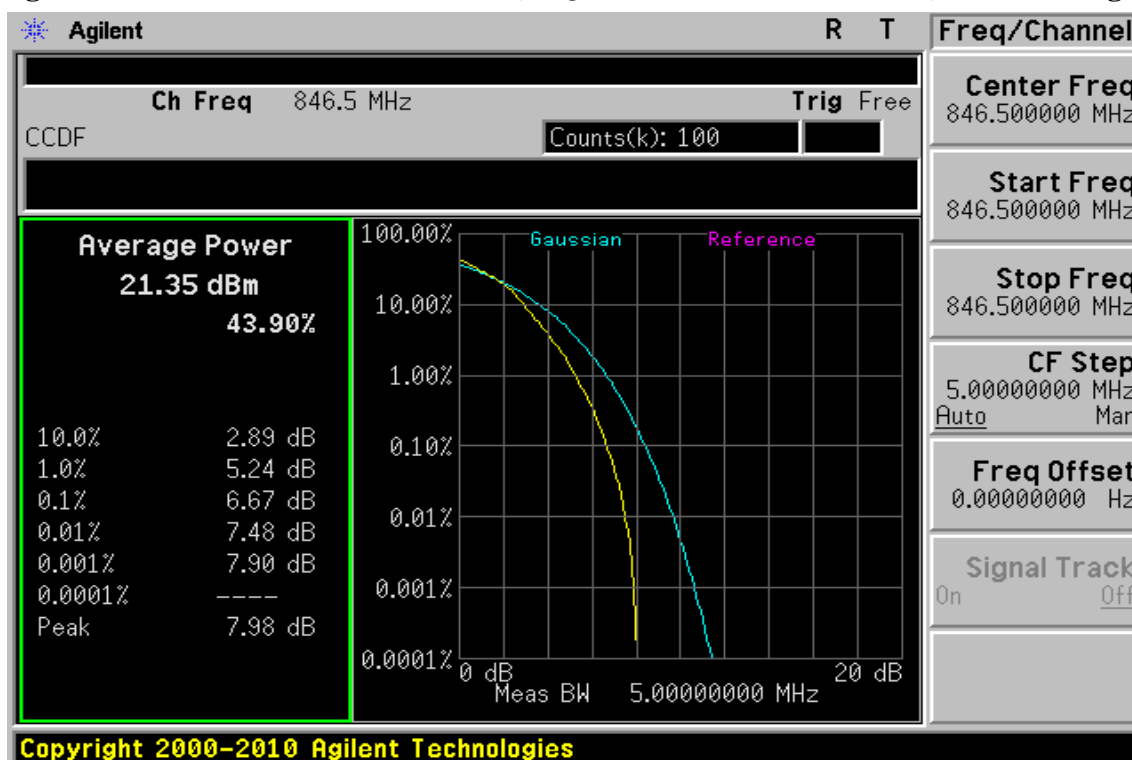
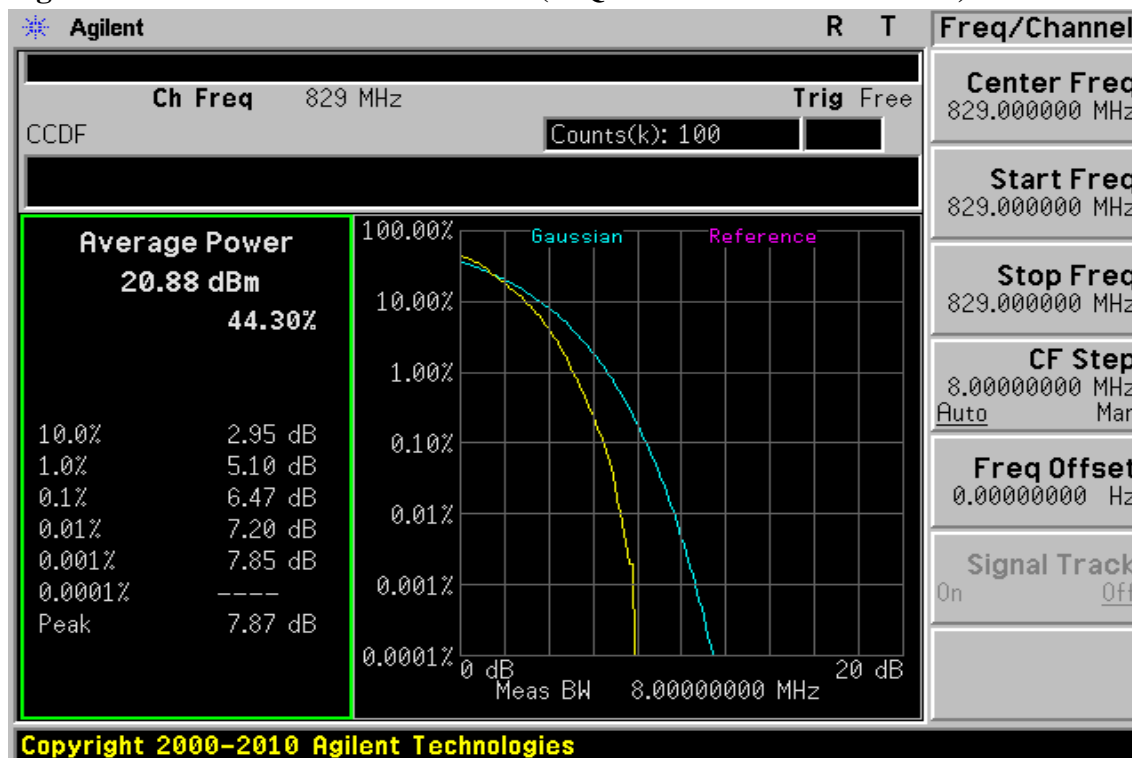


Figure 13-73: 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Low



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Figure 13-74: 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel Mid

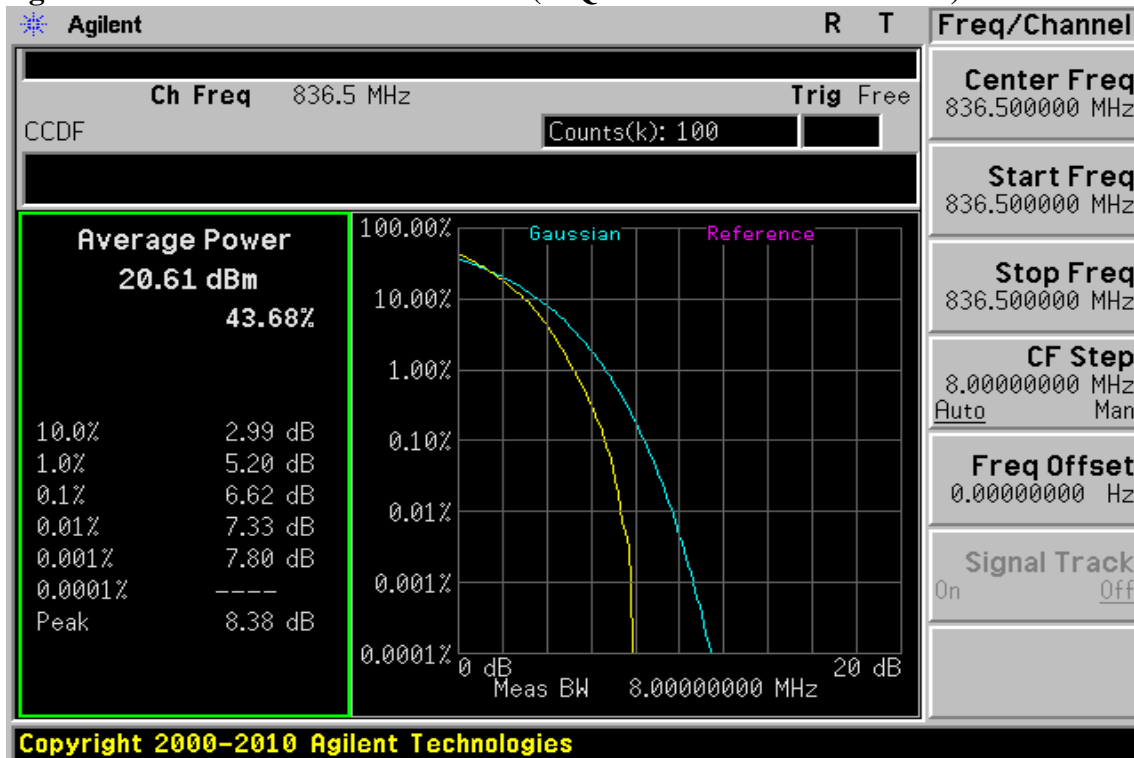
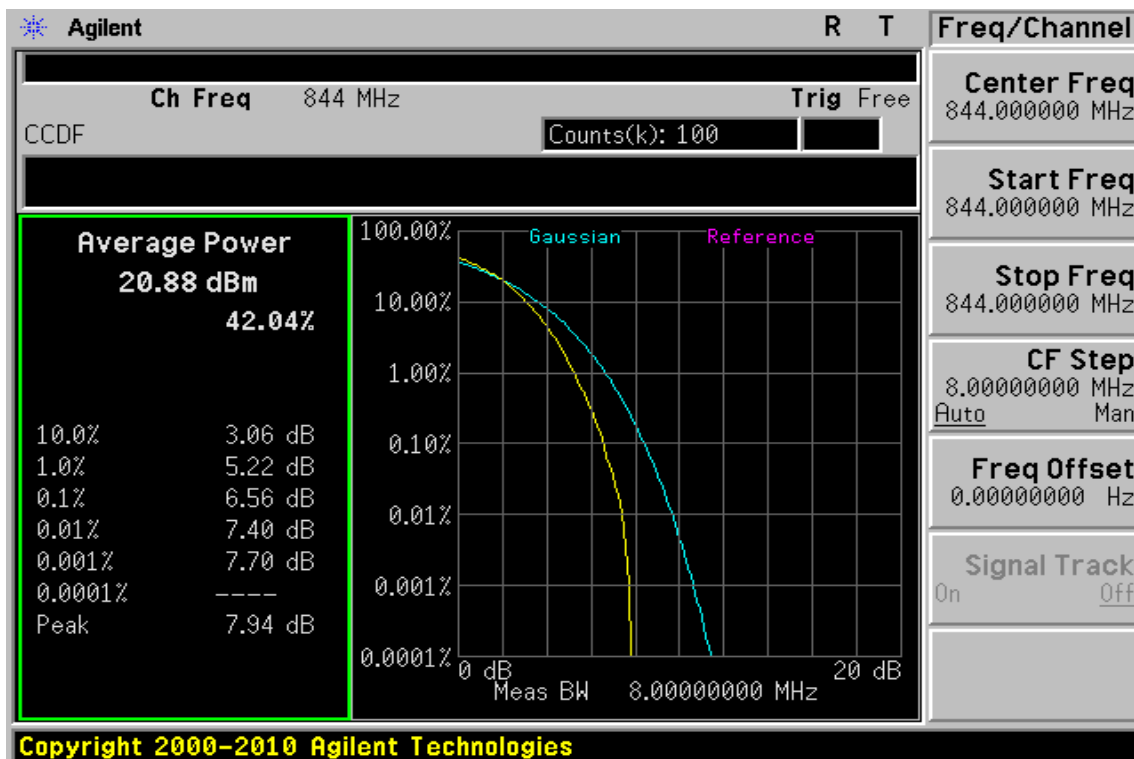


Figure 13-75: 10MHz BW LTE-Band 5(16QAM Number: 50 Offset: 0) Channel High



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# APPENDIX 1

## MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION

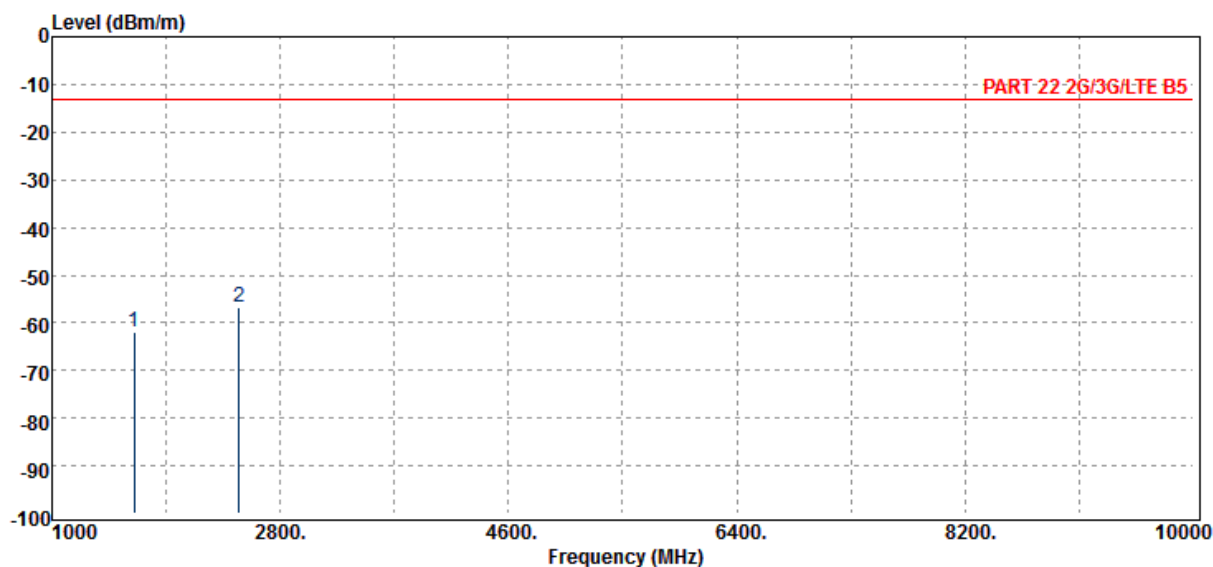
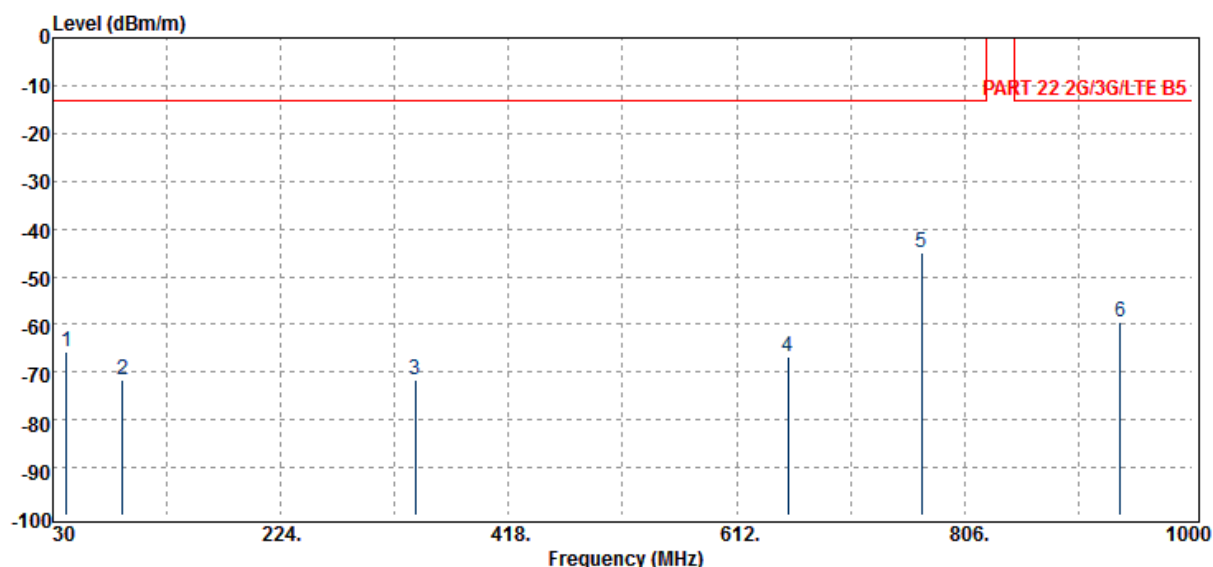
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# Radiated Spurious Emission Measurement Result: GSM 850 Mode

|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :GSM 850   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 128    | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :824.2 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX LOW    |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :VERTICAL         |



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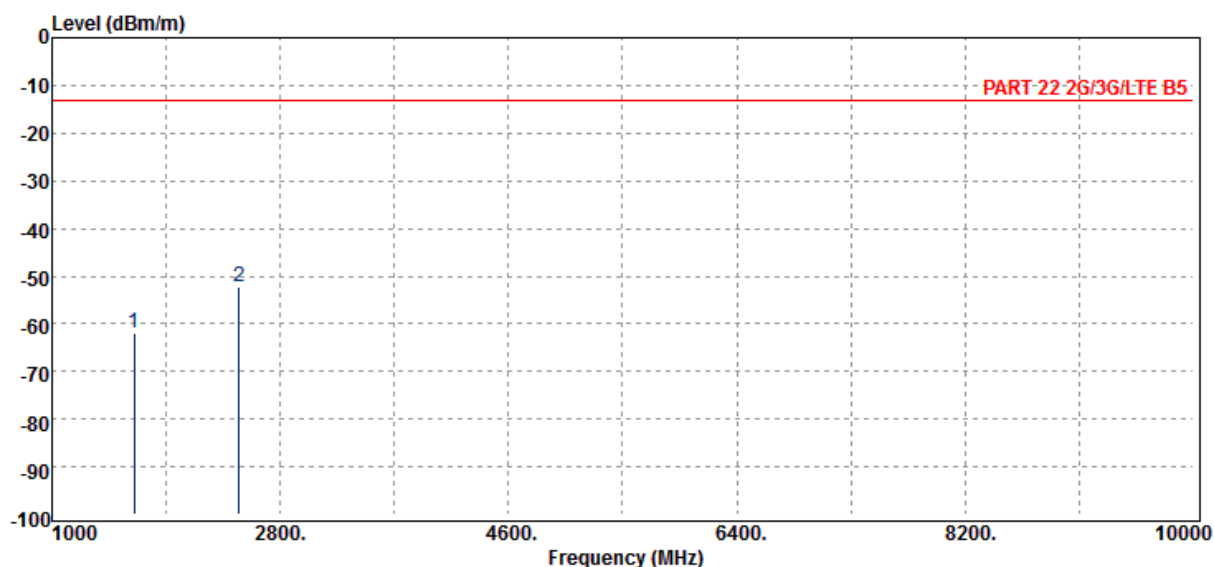
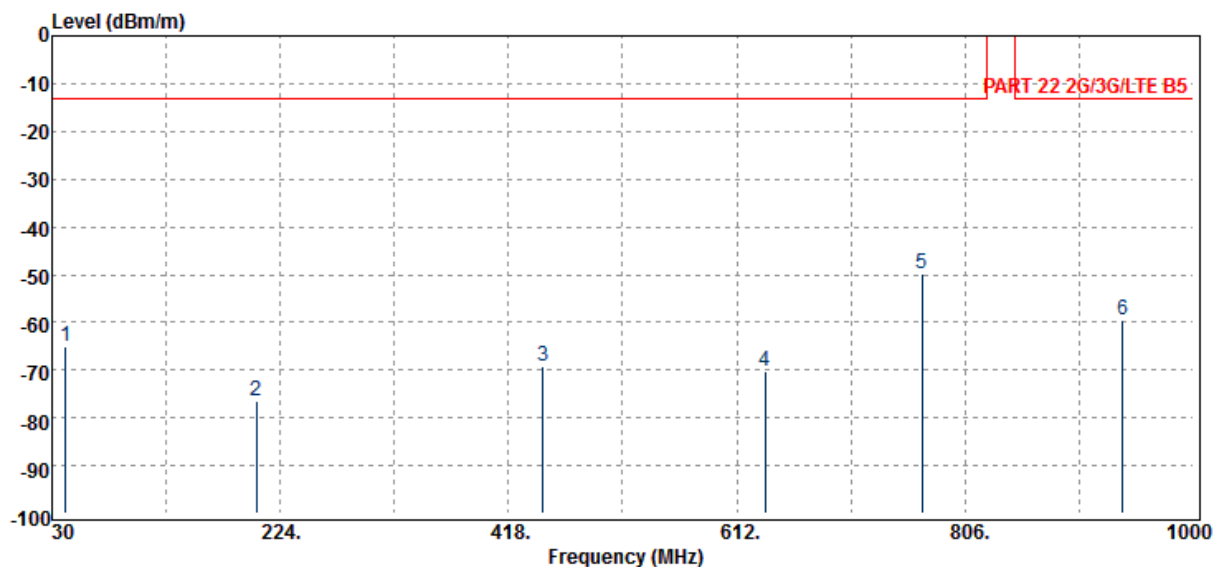
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Operation Band :GSM 850  
ARFCN :CH 128  
Fundamental Frequency :824.2 MHz  
Operation Mode :TX LOW  
EUT Pol. :H Plane

Test Date :2014-11-26  
Temp./Humi. :23 deg\_C / 56 RH  
Engineer :Curry

Measurement Antenna Pol. :HORIZONTAL



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

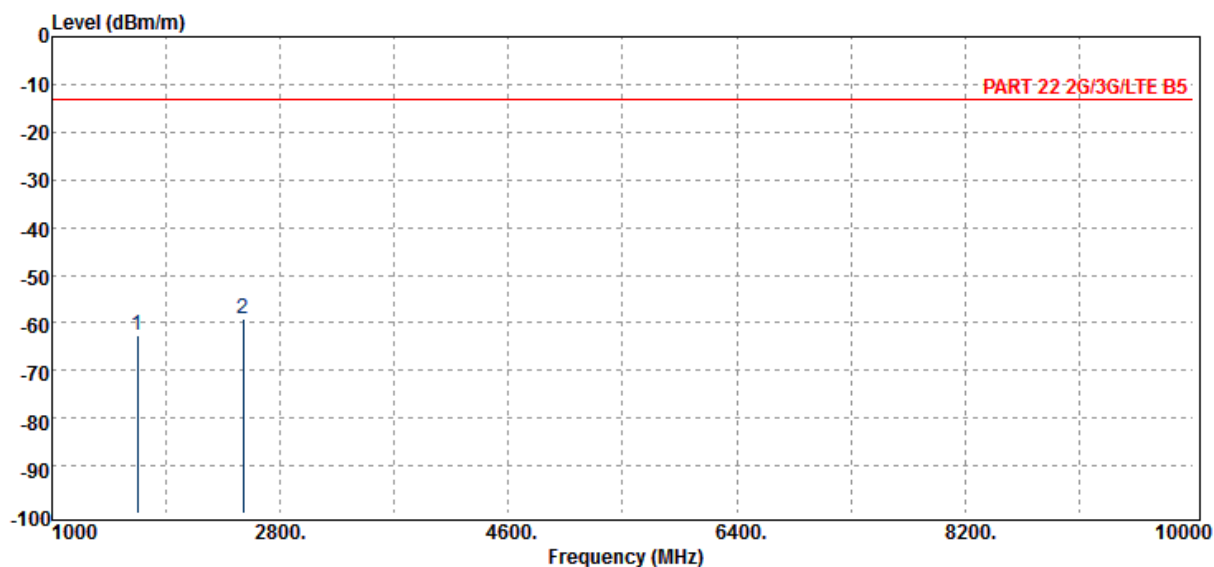
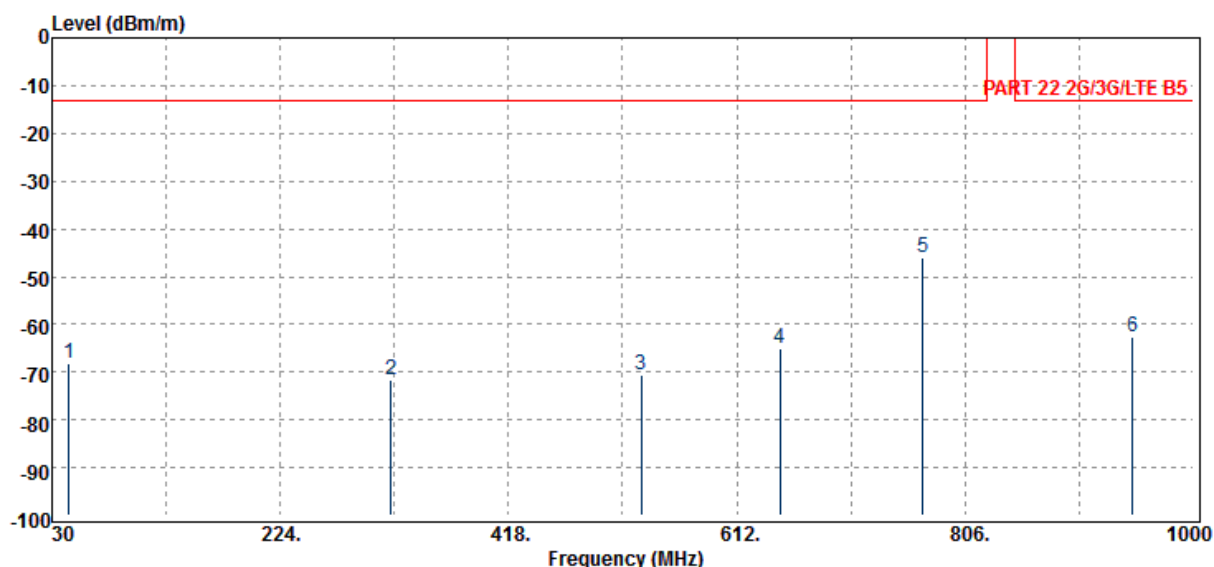
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Operation Band :GSM 850  
ARFCN :CH 190  
Fundamental Frequency :836.6 MHz  
Operation Mode :TX MID  
EUT Pol. :H Plane

Test Date :2014-11-26  
Temp./Humi. :23 deg\_C / 56 RH  
Engineer :Curry

Measurement Antenna Pol. :VERTICAL



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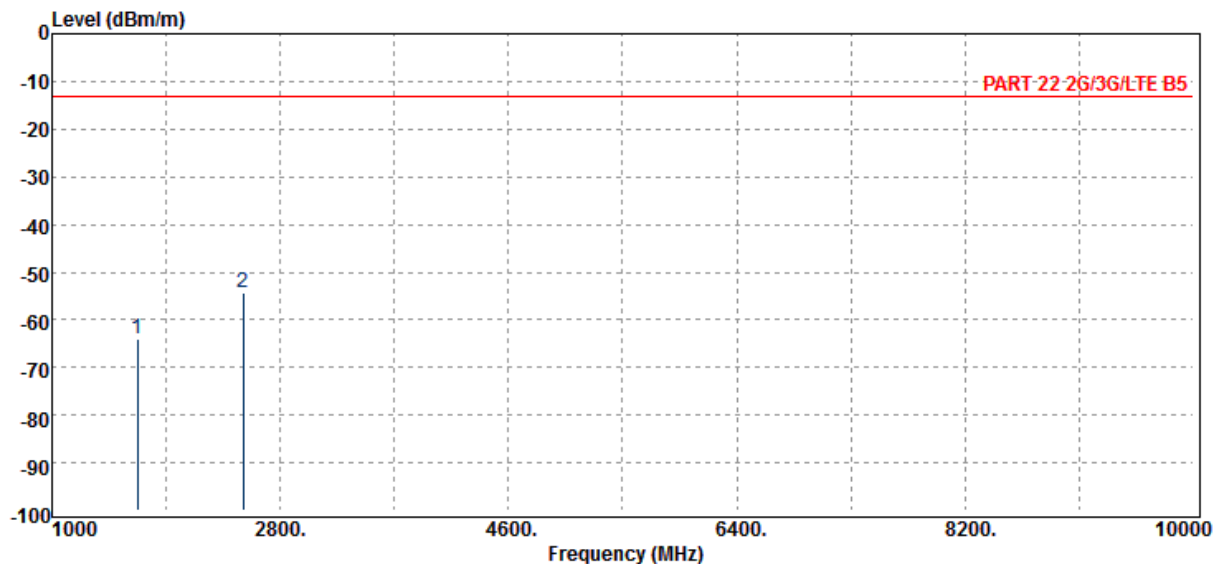
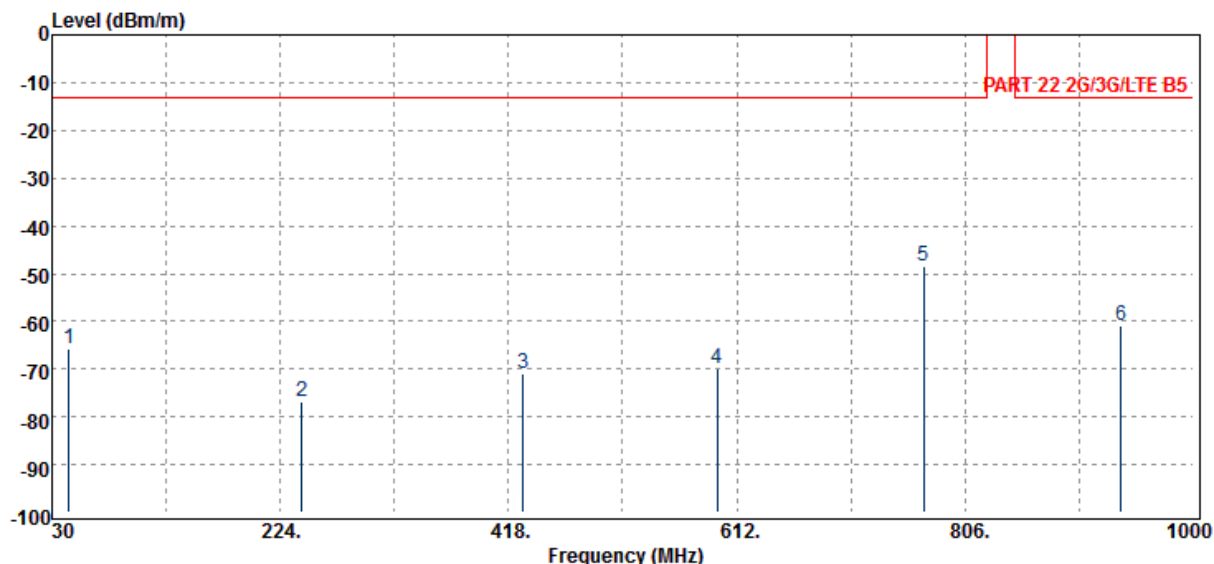
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Operation Band :GSM 850  
ARFCN :CH 190  
Fundamental Frequency :836.6 MHz  
Operation Mode :TX MID  
EUT Pol. :H Plane

Test Date :2014-11-26  
Temp./Humi. :23 deg\_C / 56 RH  
Engineer :Curry

Measurement Antenna Pol. :HORIZONTAL



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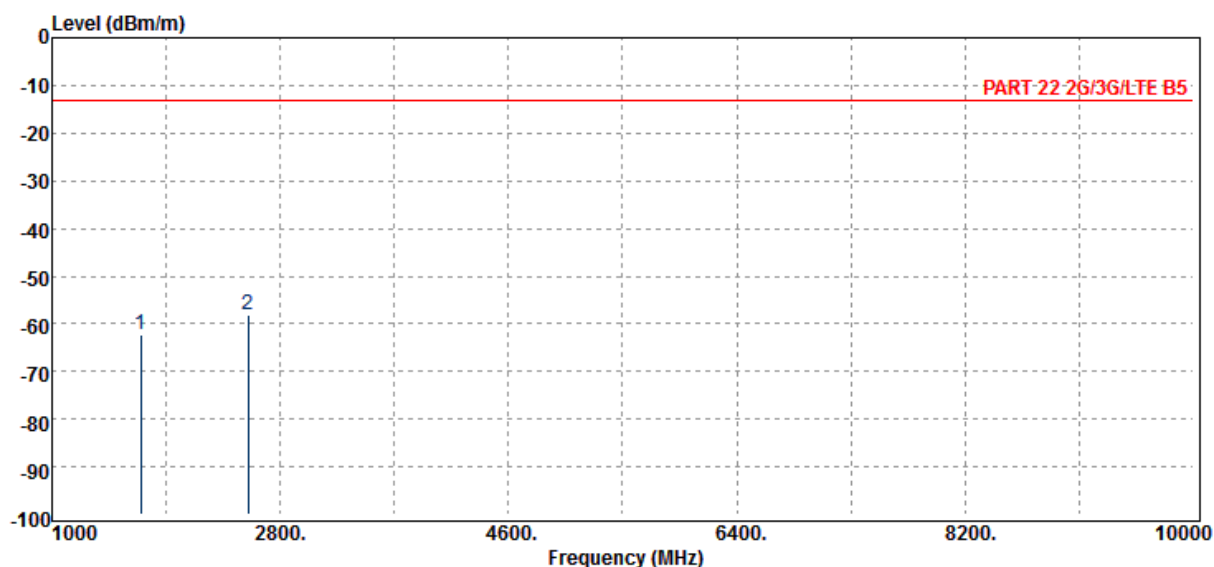
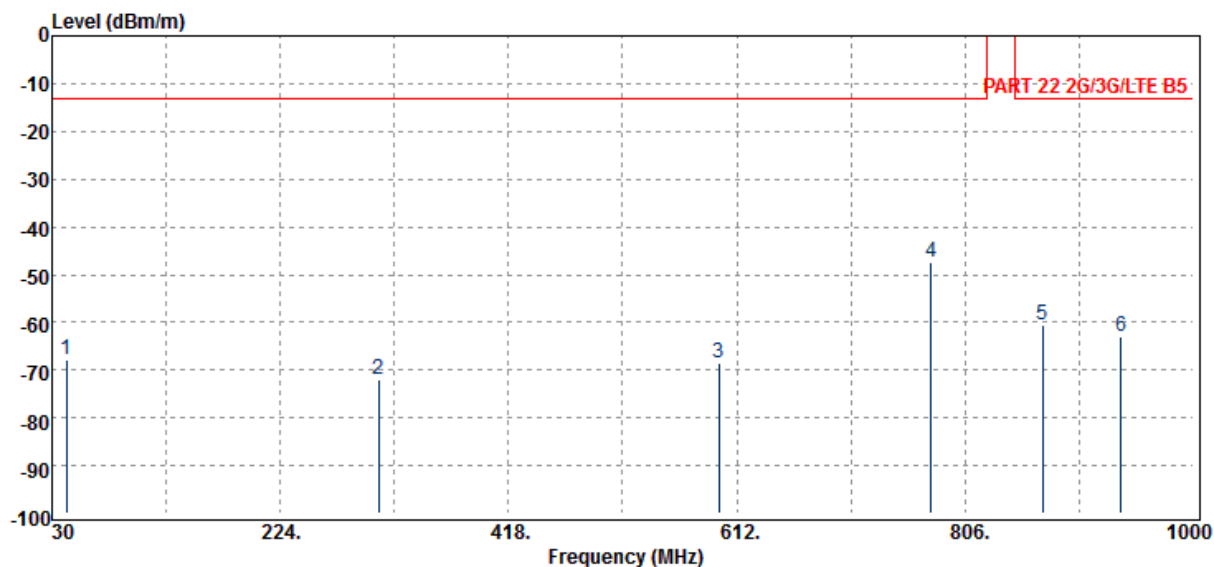
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Operation Band :GSM 850  
ARFCN :CH 251  
Fundamental Frequency :848.8 MHz  
Operation Mode :TX HIGH  
EUT Pol. :H Plane

Test Date :2014-11-26  
Temp./Humi. :23 deg\_C / 56 RH  
Engineer :Curry

Measurement Antenna Pol. :VERTICAL



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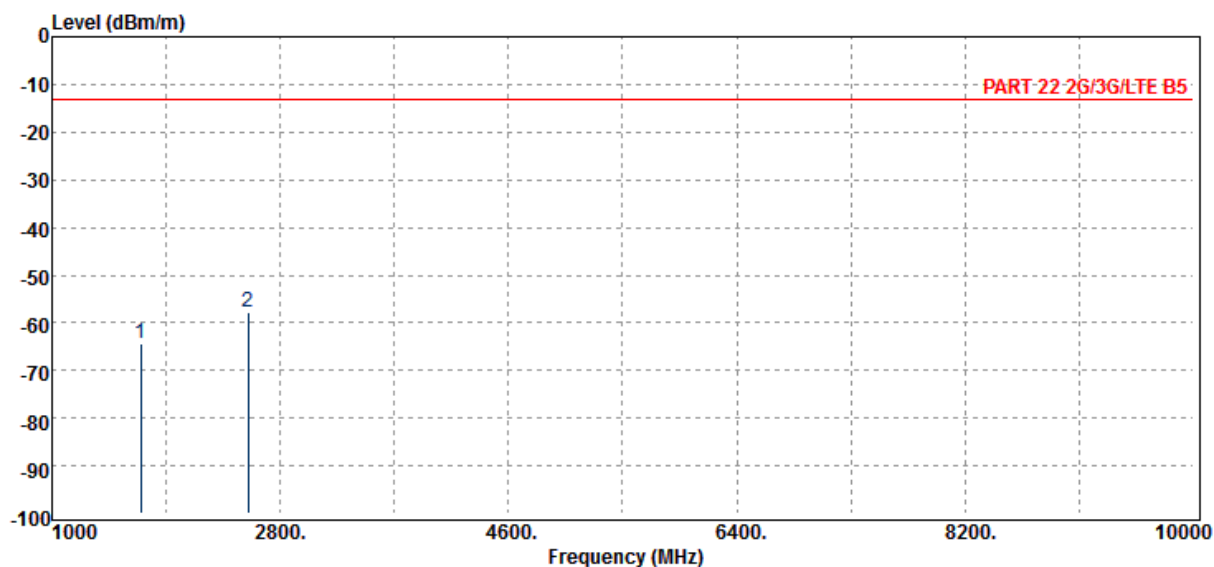
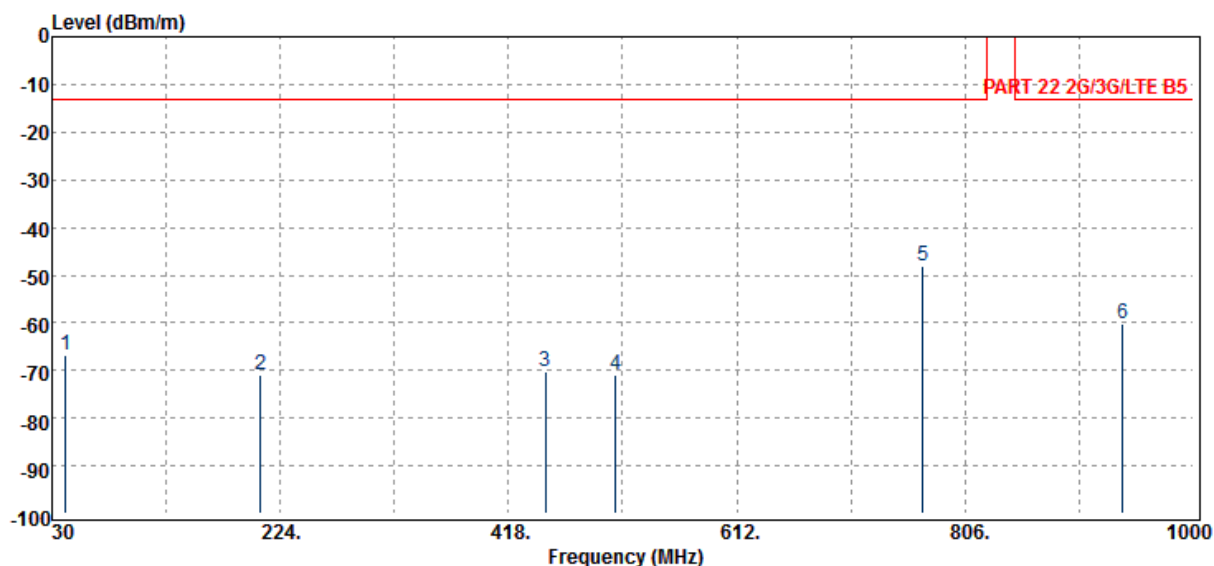
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Operation Band :GSM 850  
ARFCN :CH 251  
Fundamental Frequency :848.8 MHz  
Operation Mode :TX HIGH  
EUT Pol. :H Plane

Test Date :2014-11-26  
Temp./Humi. :23 deg\_C / 56 RH  
Engineer :Curry

Measurement Antenna Pol. :HORIZONTAL



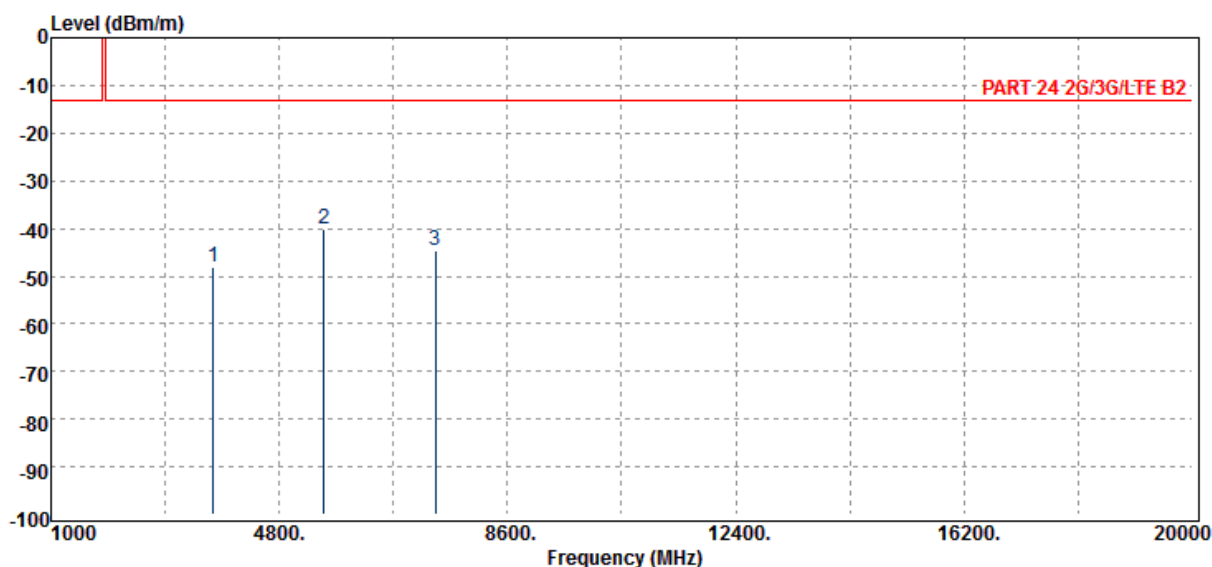
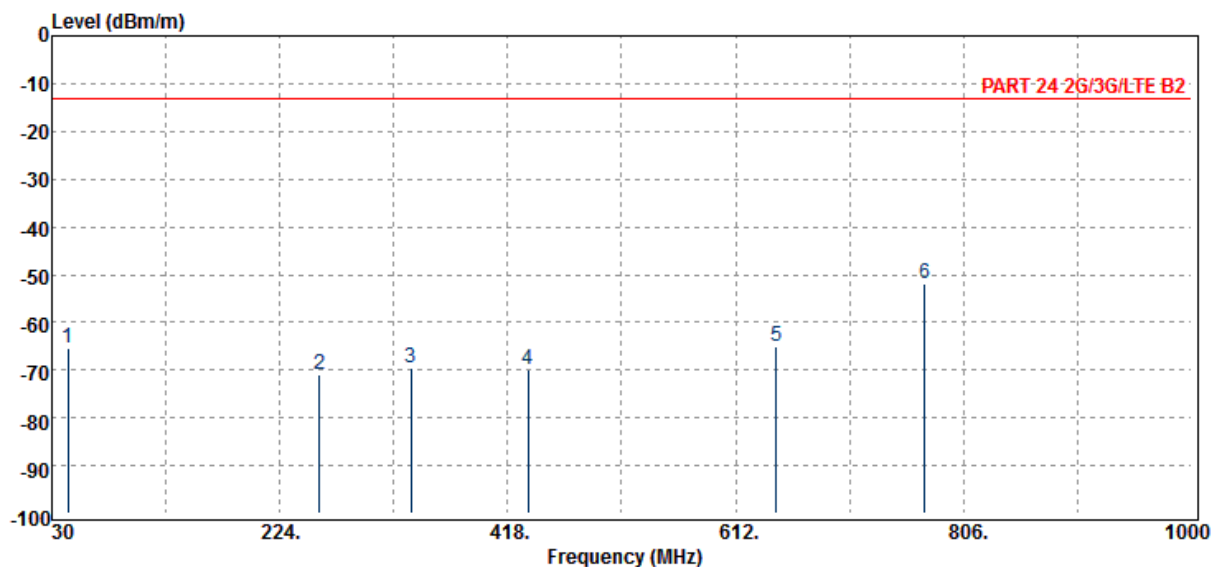
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# Radiated Spurious Emission Measurement Result: GSM 1900 Mode

|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :GSM 1900   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 512     | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1850.2 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX LOW     |                          |                   |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :VERTICAL         |

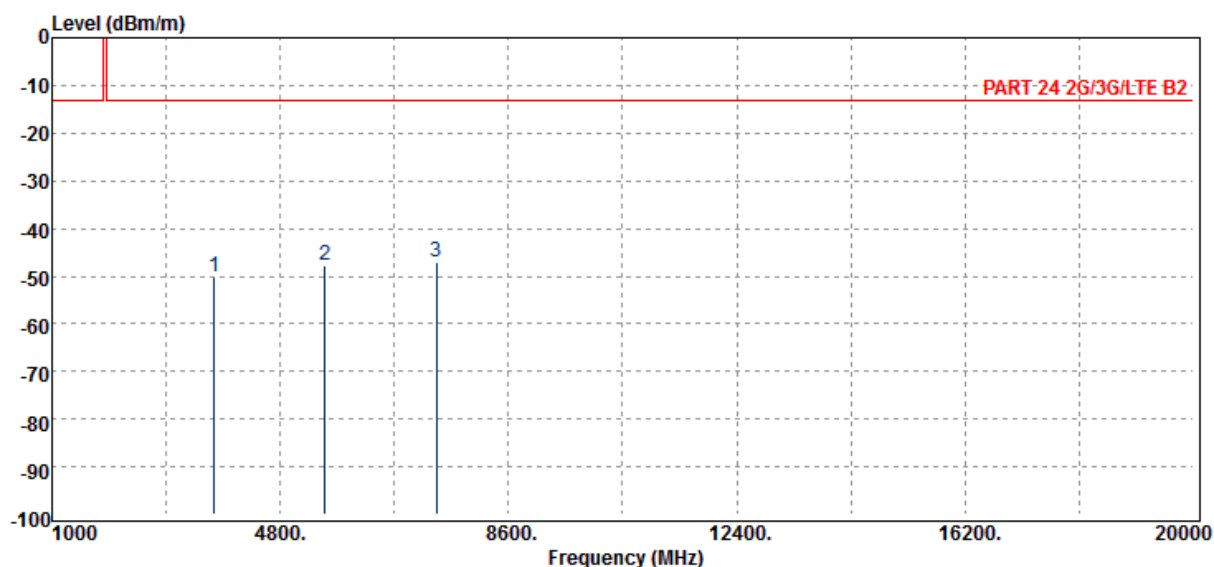
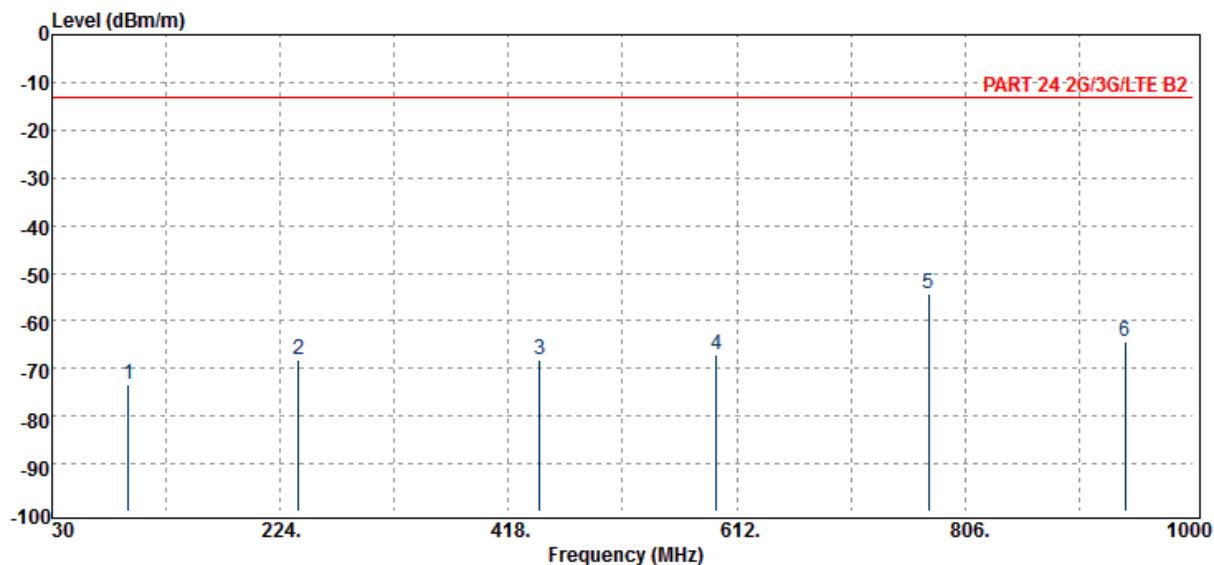


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|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :GSM 1900   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 512     | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1850.2 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX LOW     |                          |                   |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :HORIZONTAL       |



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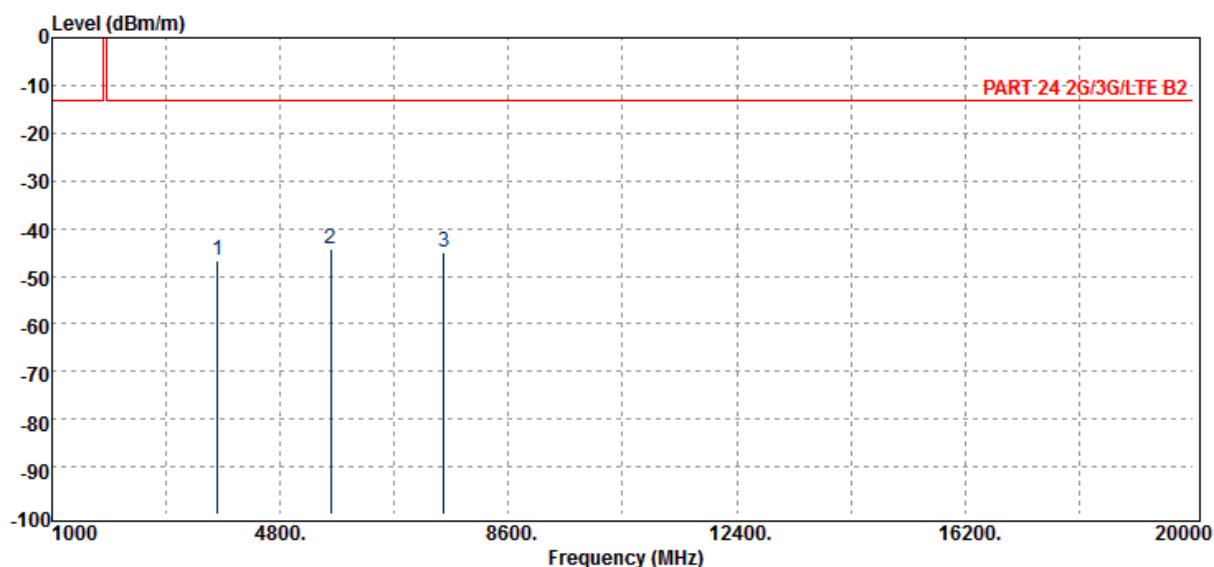
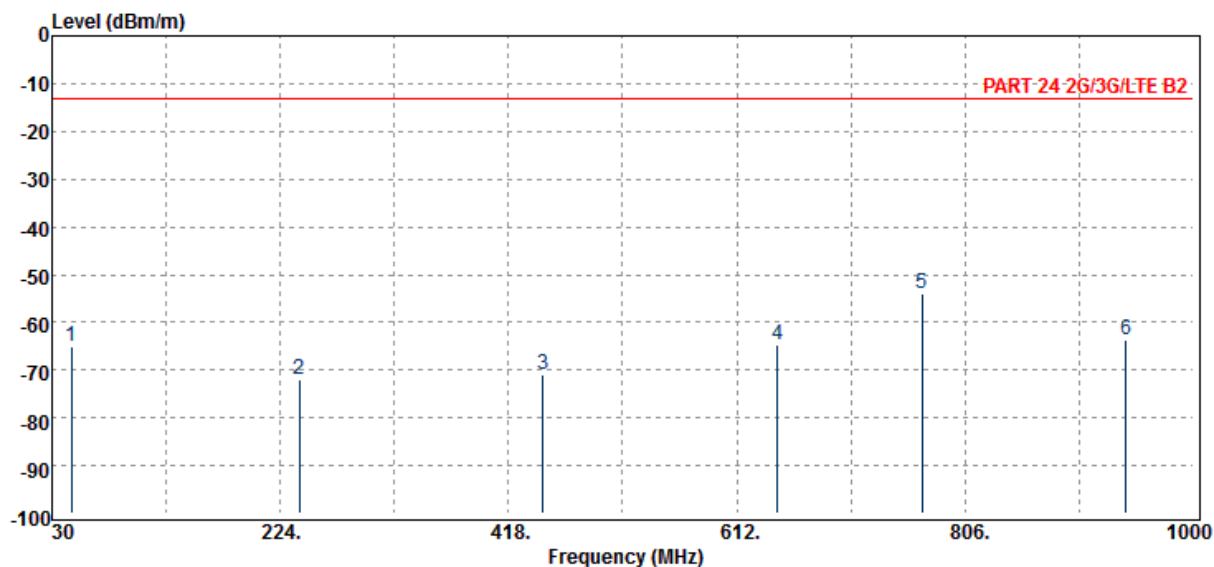
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Operation Band :GSM 1900  
ARFCN :CH 661  
Fundamental Frequency :1880 MHz  
Operation Mode :TX MID  
EUT Pol. :H Plane

Test Date :2014-11-26  
Temp./Humi. :23 deg\_C / 56 RH  
Engineer :Curry

Measurement Antenna Pol. :VERTICAL



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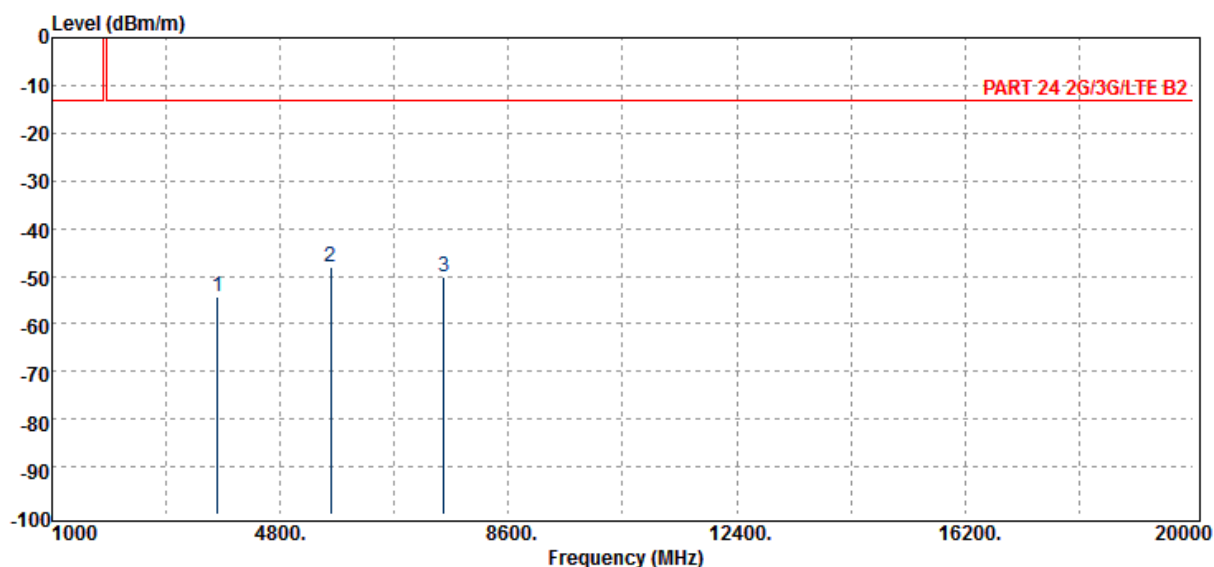
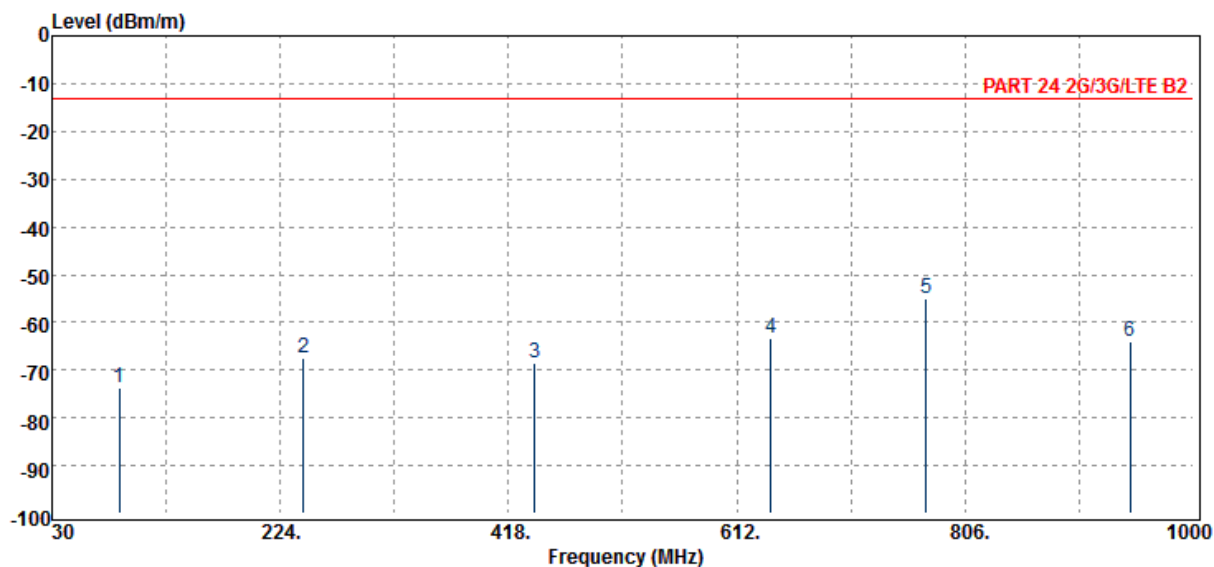
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Operation Band :GSM 1900  
ARFCN :CH 661  
Fundamental Frequency :1880 MHz  
Operation Mode :TX MID  
EUT Pol. :H Plane

Test Date :2014-11-26  
Temp./Humi. :23 deg\_C / 56 RH  
Engineer :Curry

Measurement Antenna Pol. :HORIZONTAL



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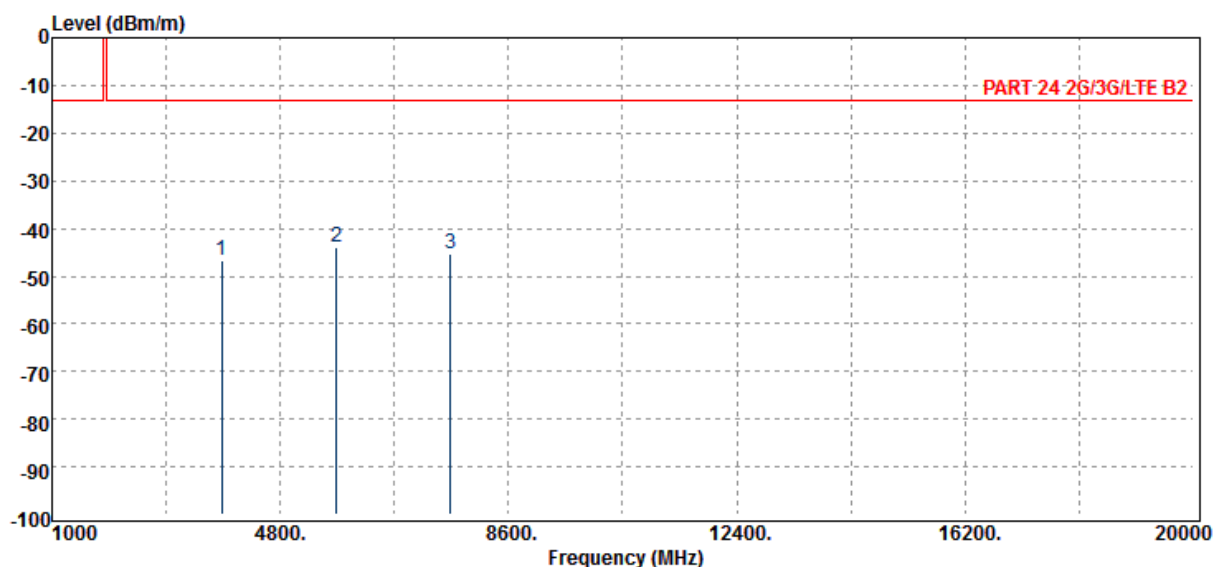
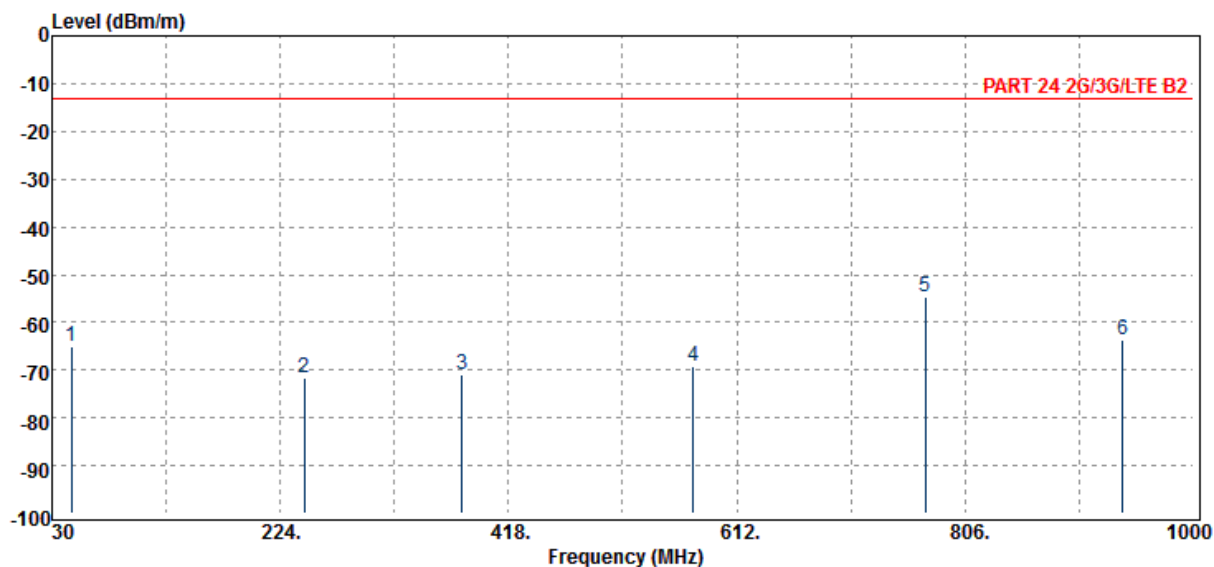
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Operation Band :GSM 1900  
ARFCN :CH 810  
Fundamental Frequency :1909.8 MHz  
Operation Mode :TX HIGH  
EUT Pol. :H Plane

Test Date :2014-11-26  
Temp./Humi. :23 deg\_C / 56 RH  
Engineer :Curry

Measurement Antenna Pol. :VERTICAL



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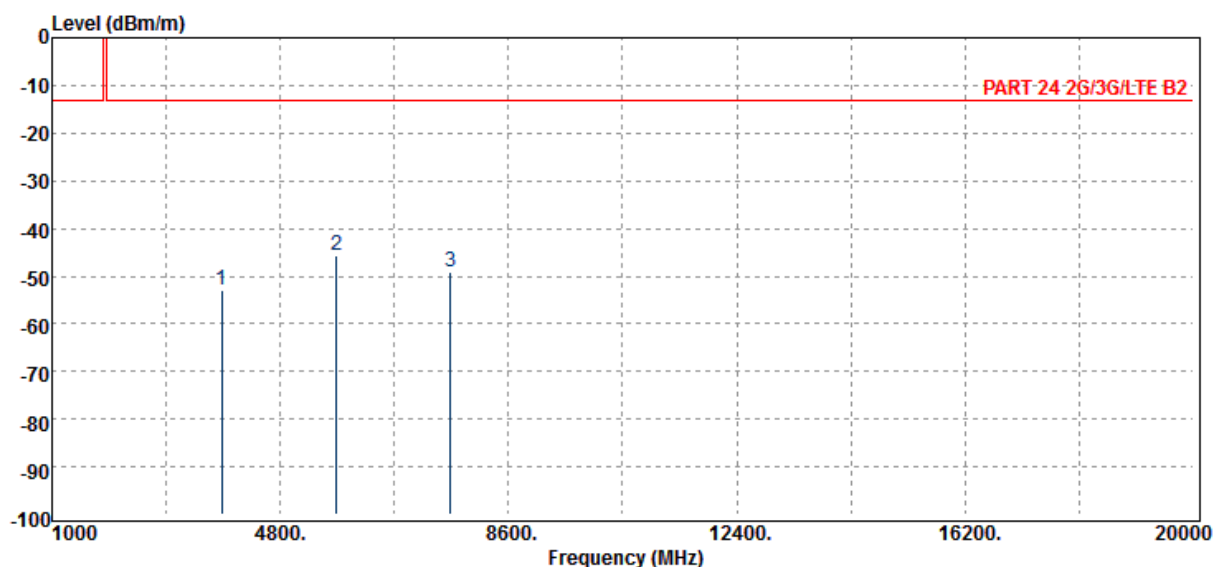
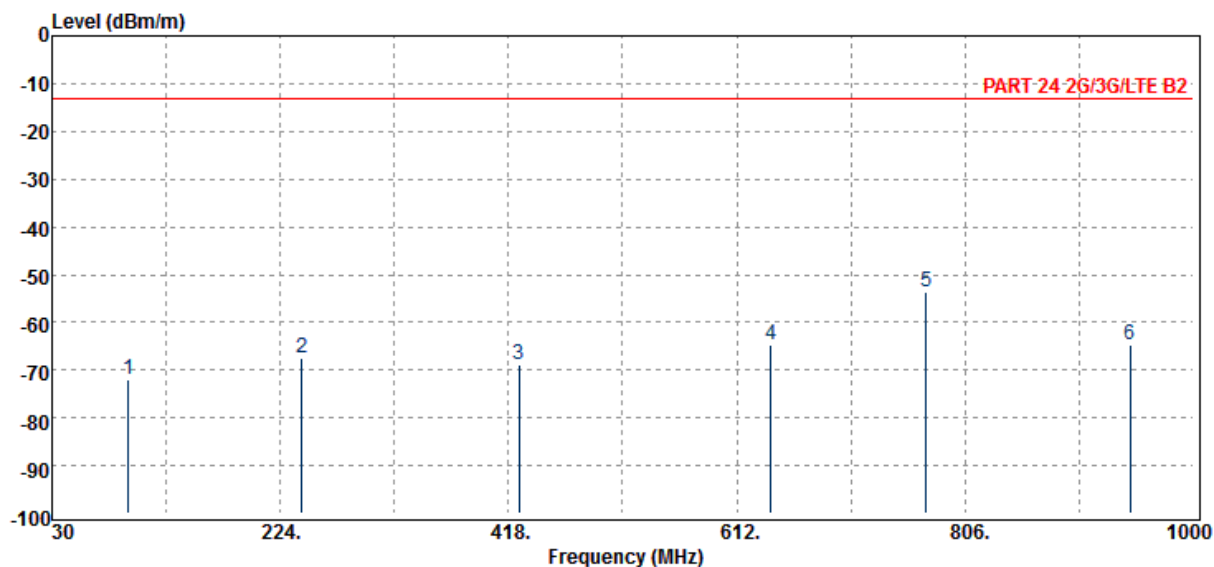
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Operation Band :GSM 1900  
ARFCN :CH 810  
Fundamental Frequency :1909.8 MHz  
Operation Mode :TX HIGH  
EUT Pol. :H Plane

Test Date :2014-11-26  
Temp./Humi. :23 deg\_C / 56 RH  
Engineer :Curry

Measurement Antenna Pol. :HORIZONTAL



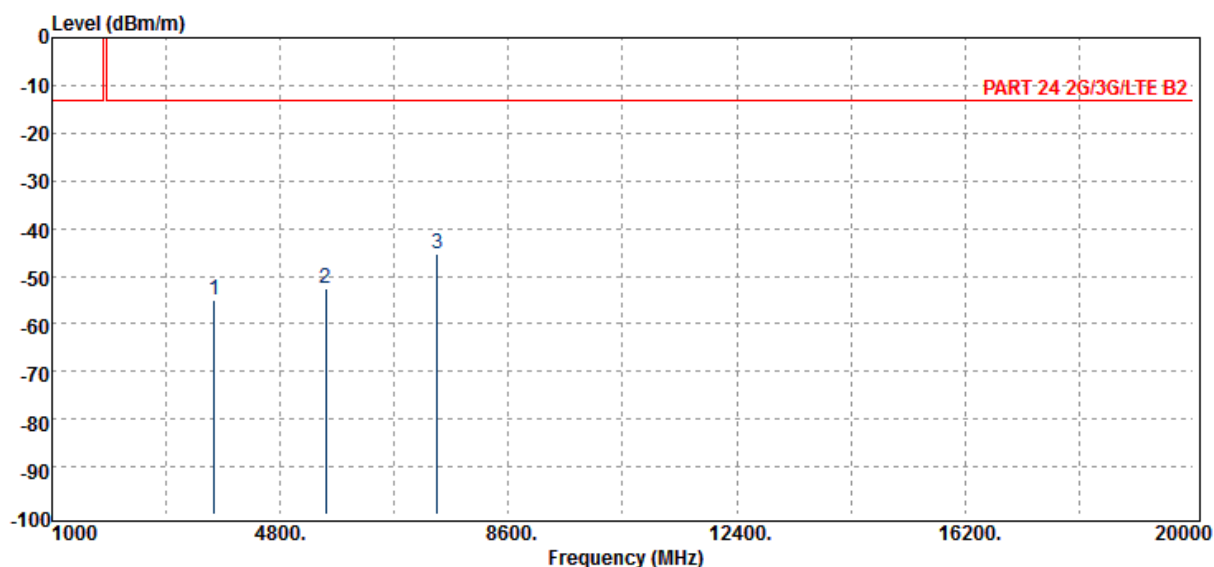
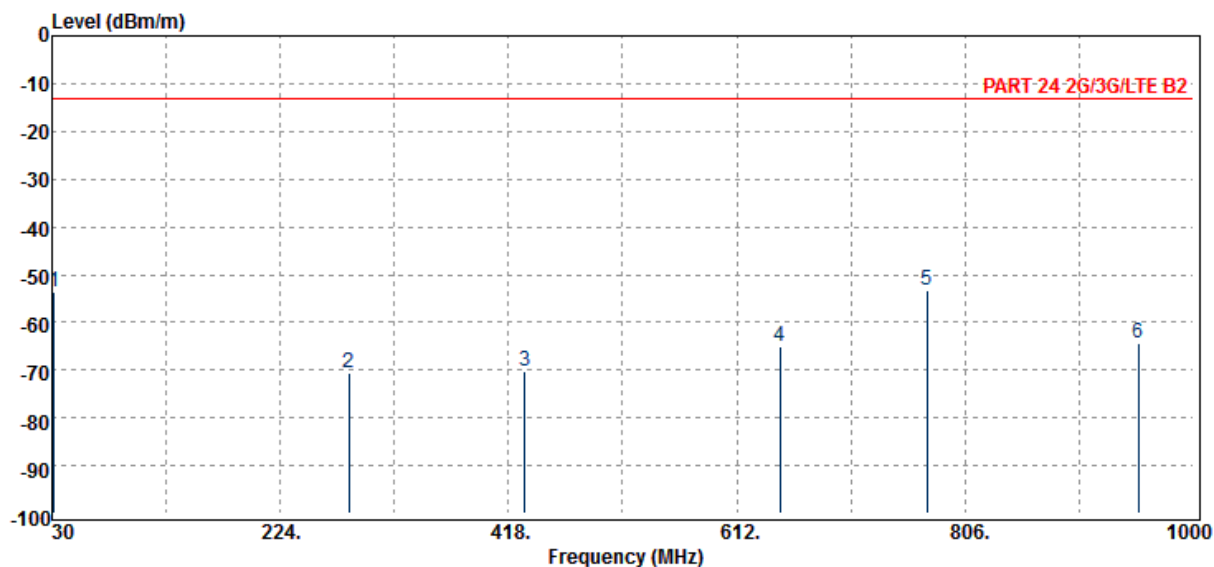
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# Radiated Spurious Emission Measurement Result: HSDPA II Mode

|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B2   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 9262    | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1852.4 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX LOW     |                          |                   |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :VERTICAL         |



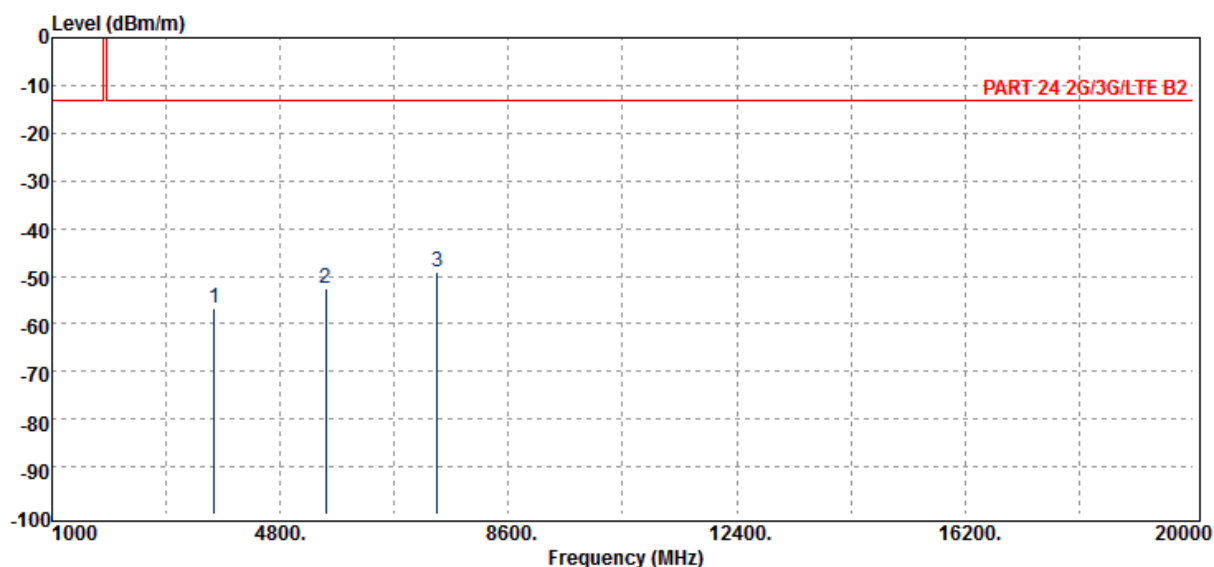
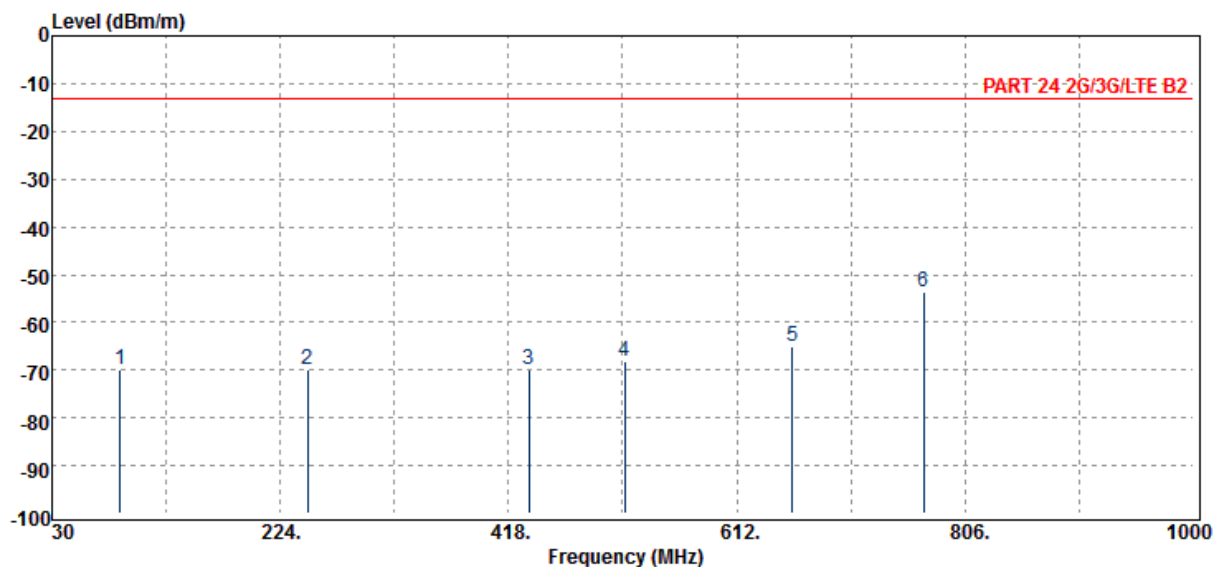
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|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B2   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 9262    | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1852.4 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX LOW     |                          |                   |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :HORIZONTAL       |

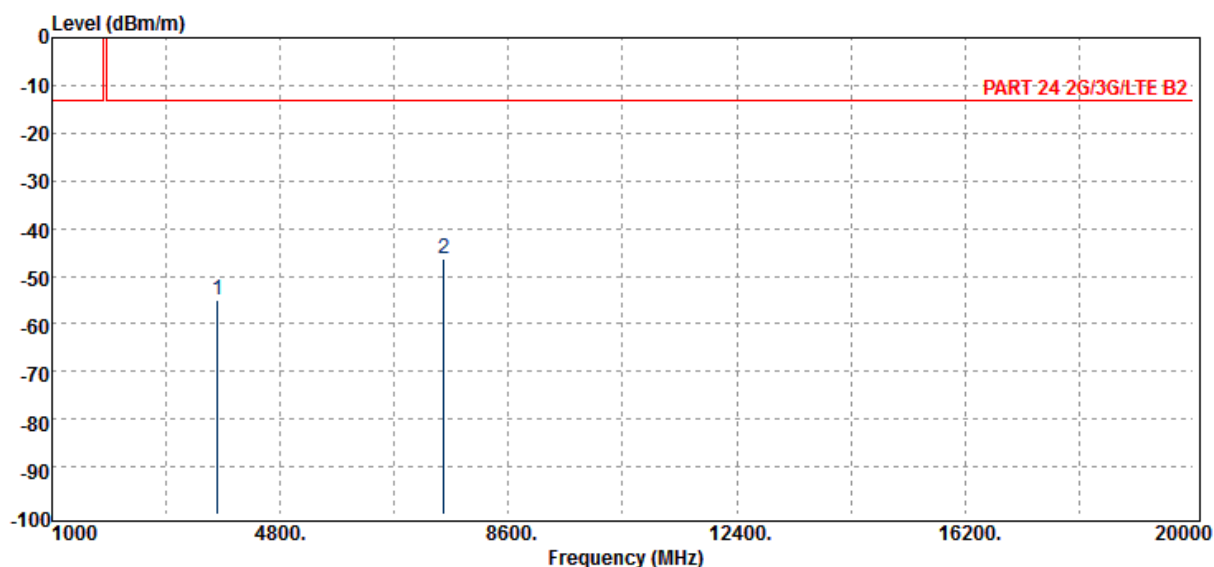
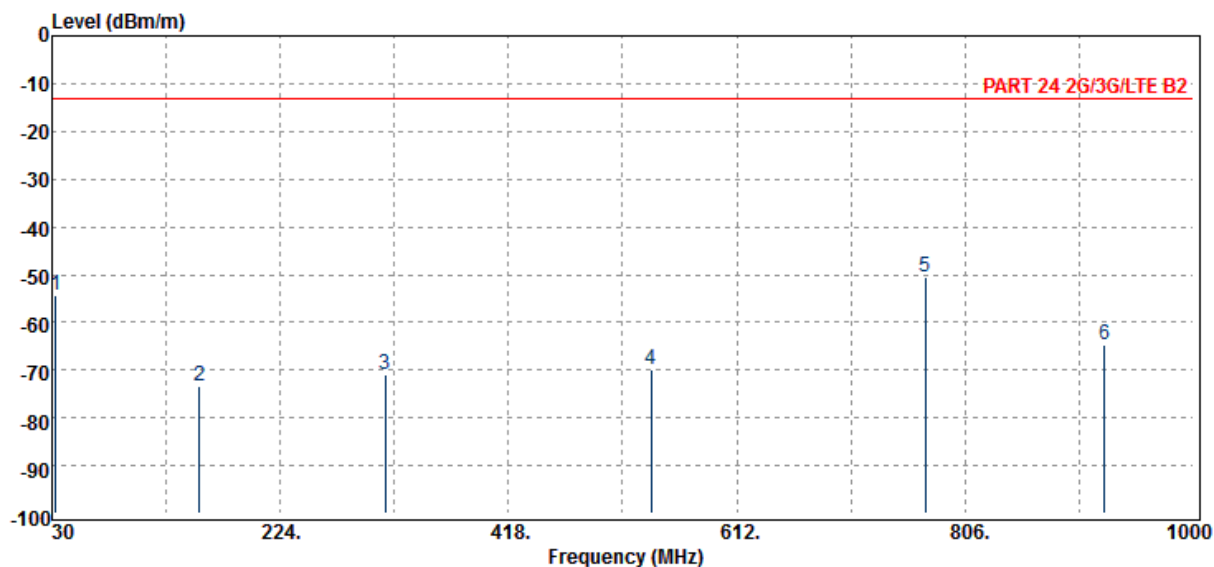


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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :WCDMA B2 | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 9400  | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1880 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX MID   |                          |                   |
| EUT Pol.              | :H Plane  | Measurement Antenna Pol. | :VERTICAL         |

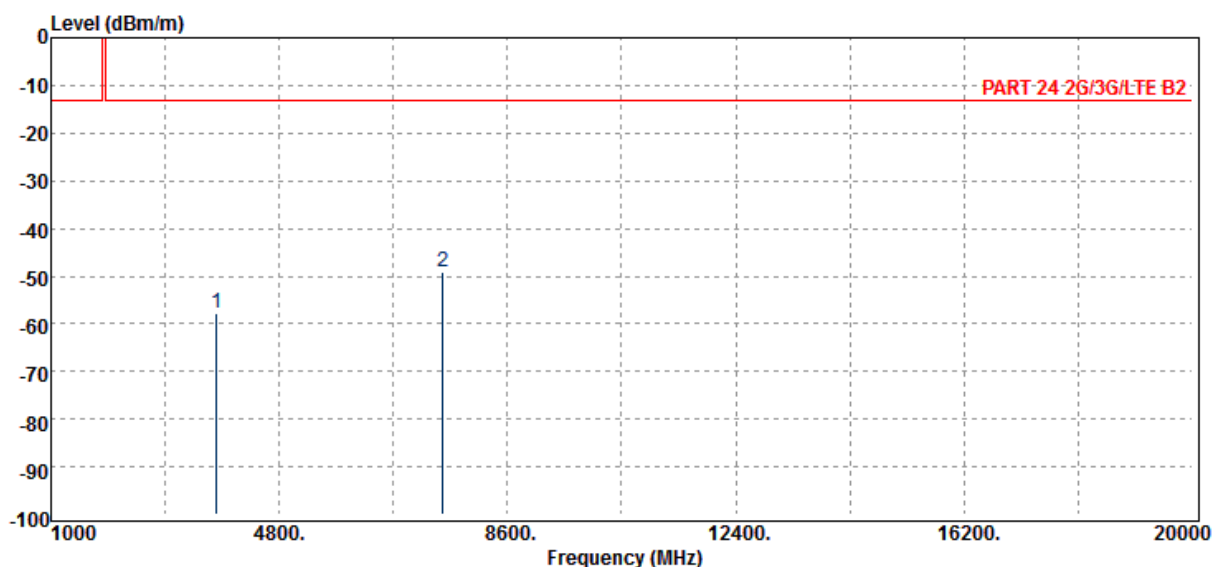
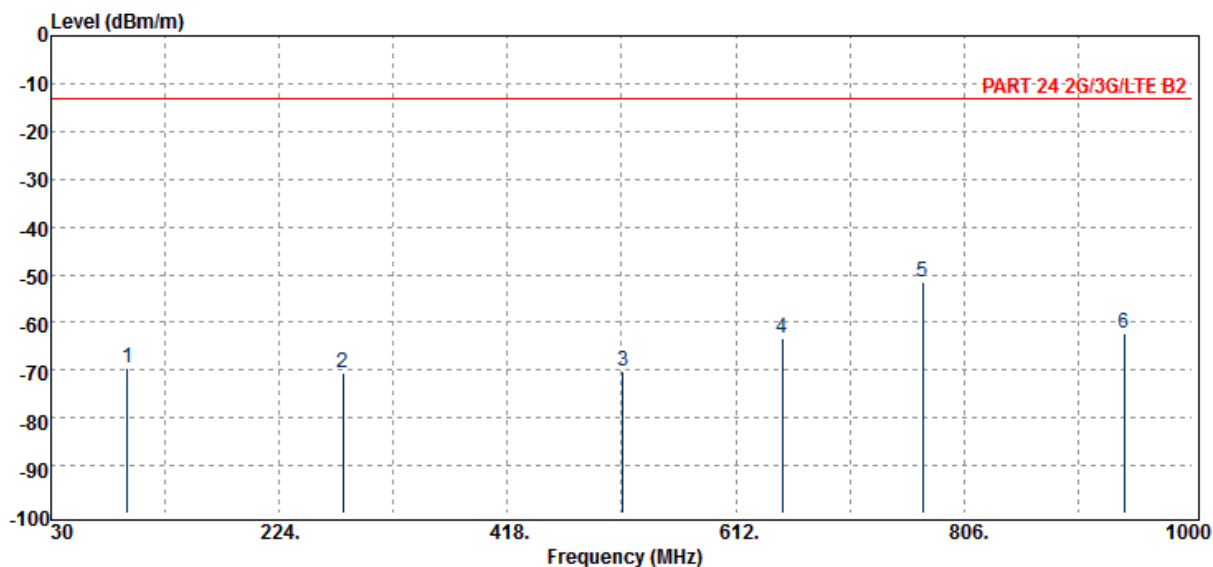


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|                       |           |                          |                   |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band        | :WCDMA B2 | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 9400  | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1880 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX MID   |                          |                   |
| EUT Pol.              | :H Plane  | Measurement Antenna Pol. | :HORIZONTAL       |

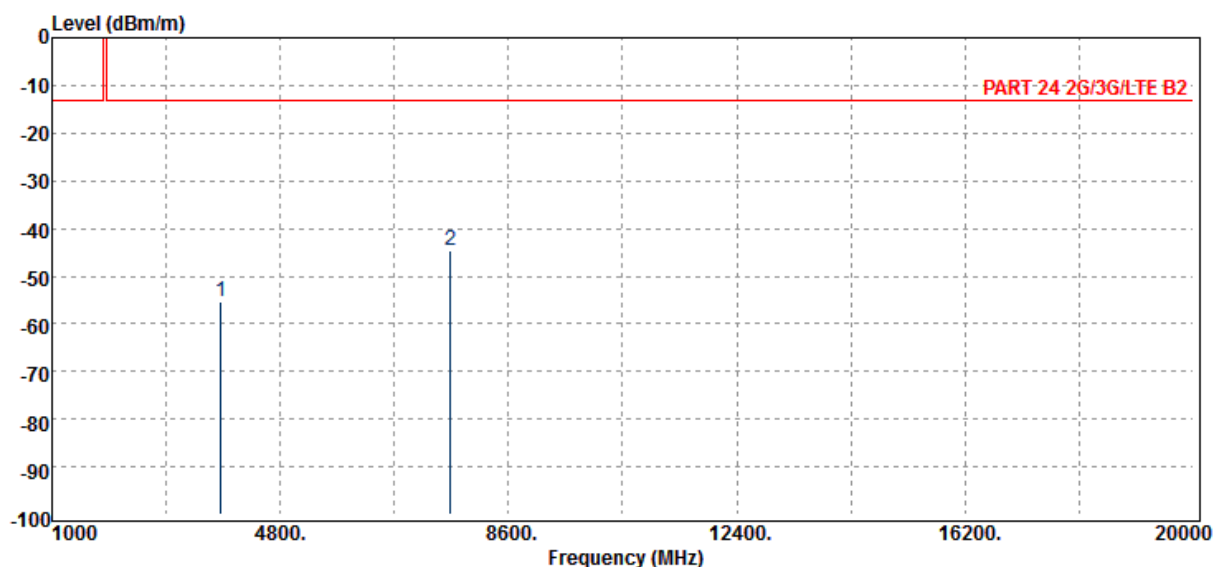
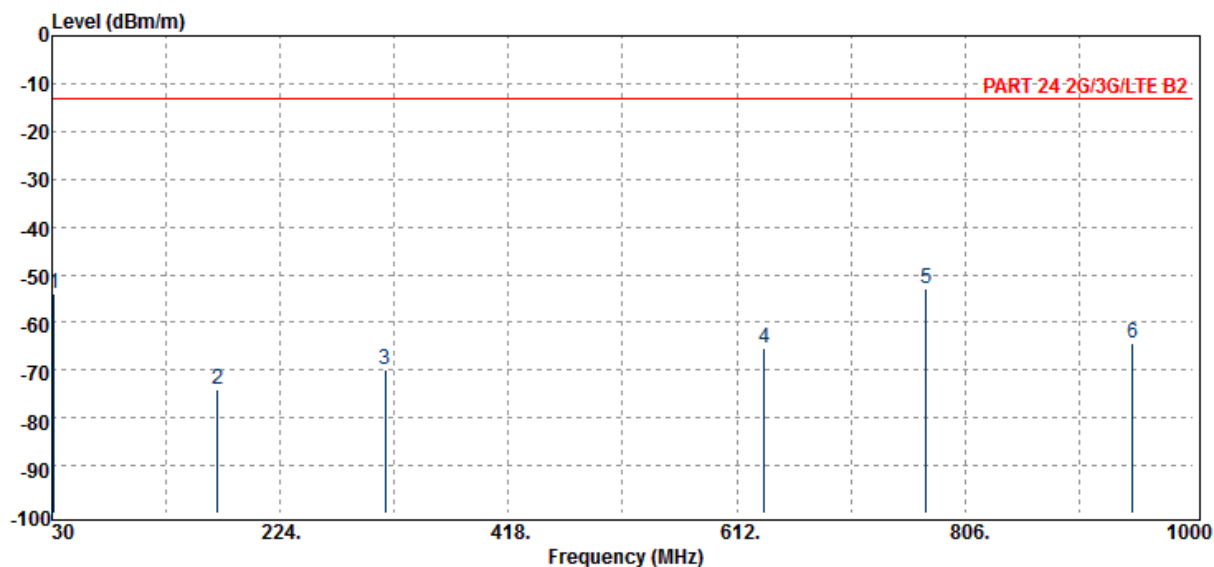


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|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B2   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 9538    | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1907.6 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX HIGH    |                          |                   |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :VERTICAL         |

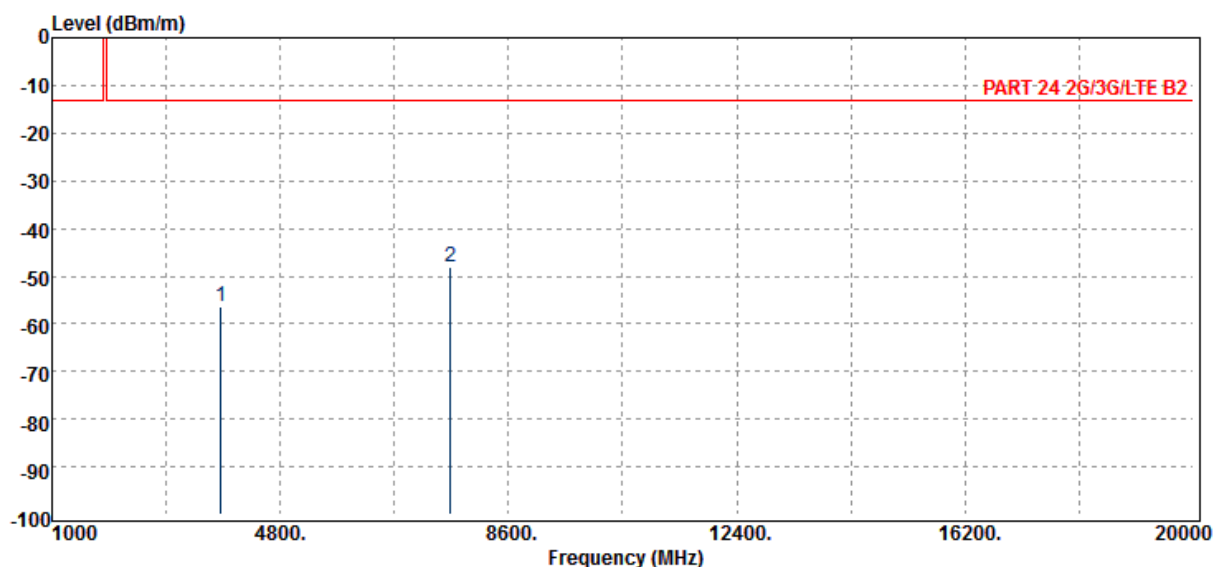
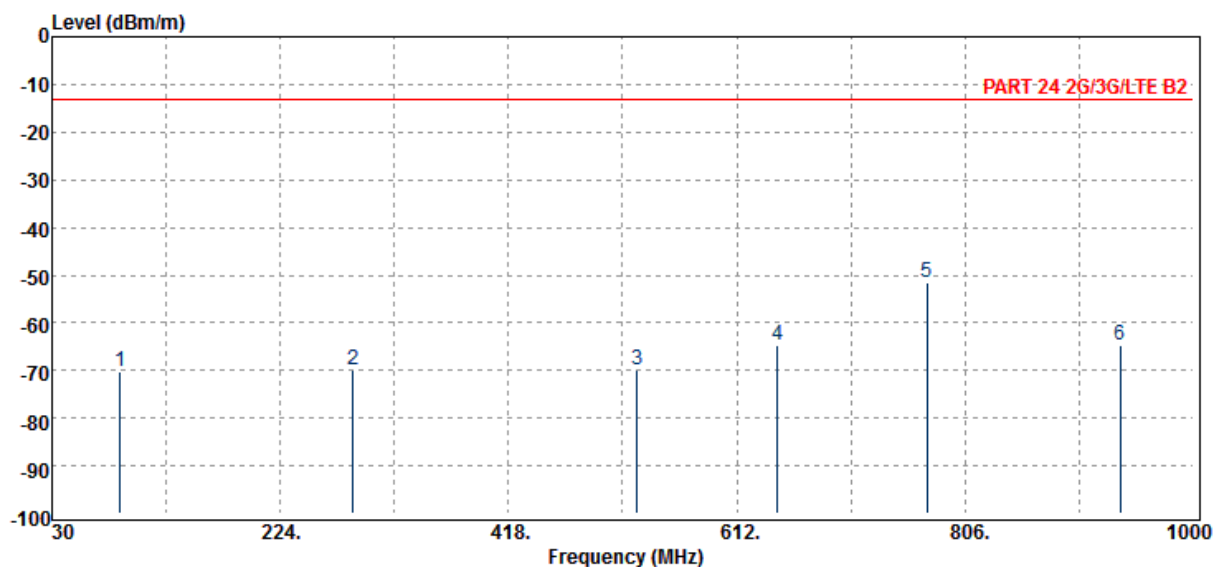


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|                       |             |                          |                   |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B2   | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 9538    | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :1907.6 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX HIGH    |                          |                   |
| EUT Pol.              | :H Plane    | Measurement Antenna Pol. | :HORIZONTAL       |



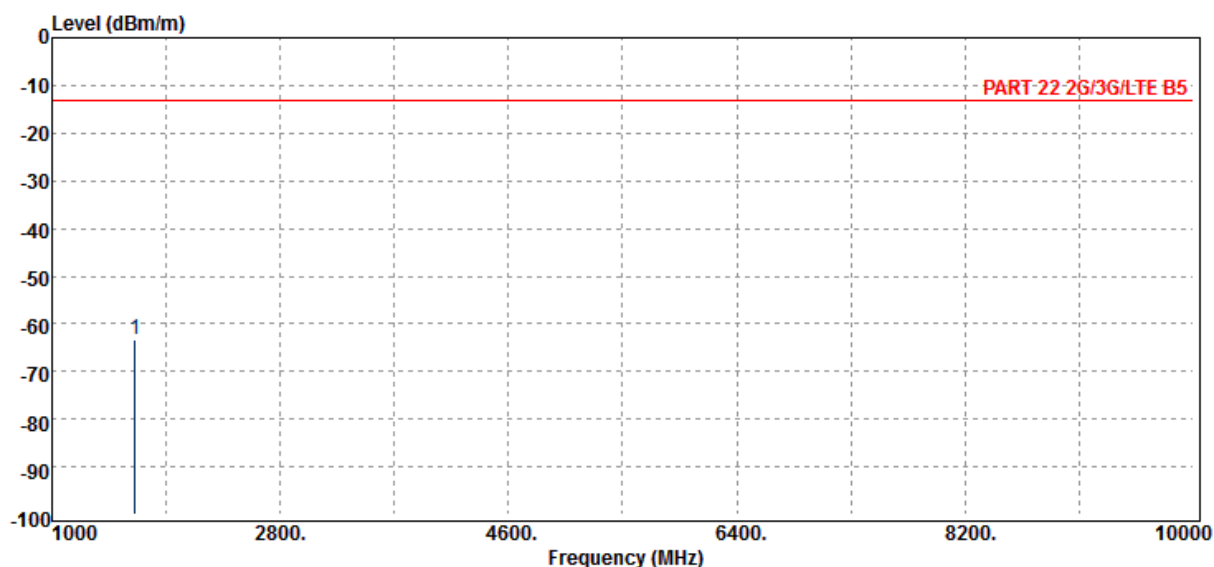
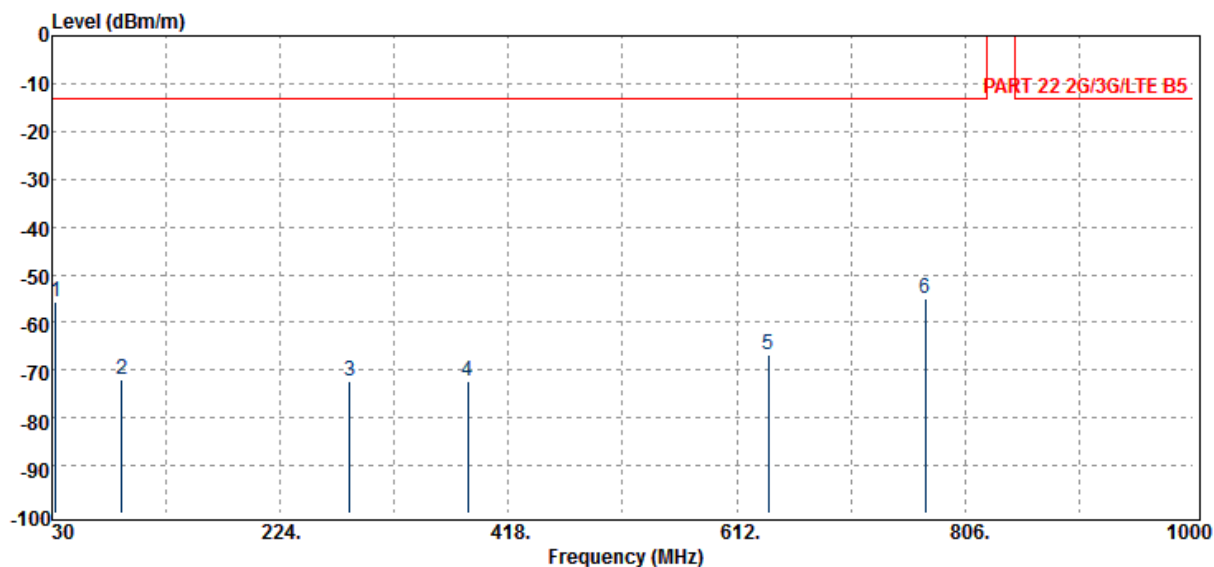
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# Radiated Spurious Emission Measurement Result: HSDPA V Mode

|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B5  | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 4132   | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :826.4 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX LOW    |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :VERTICAL         |

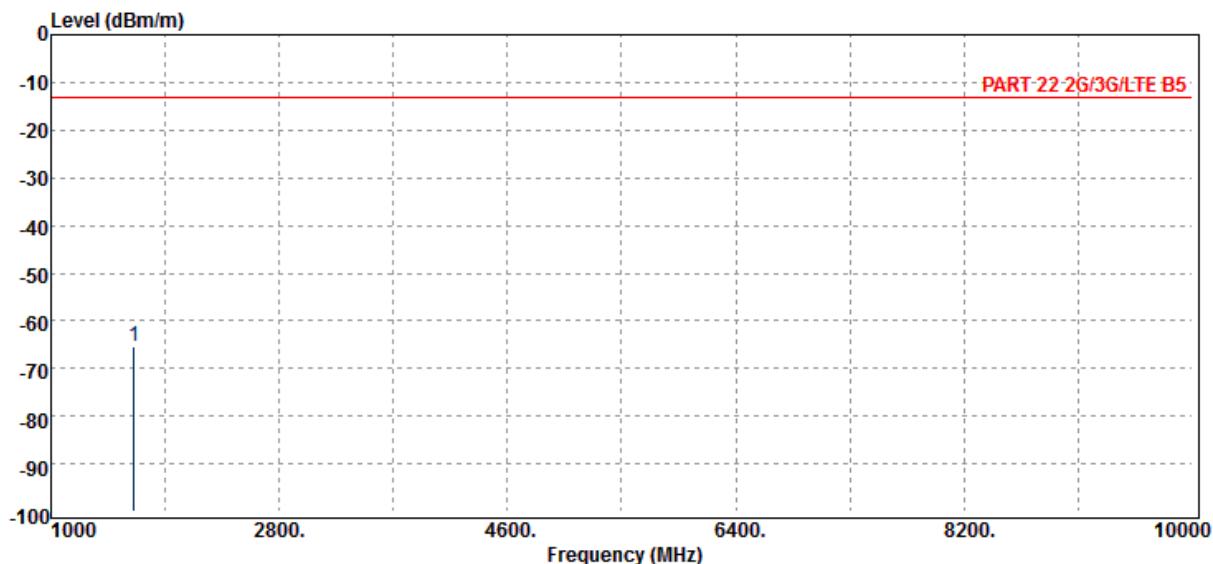
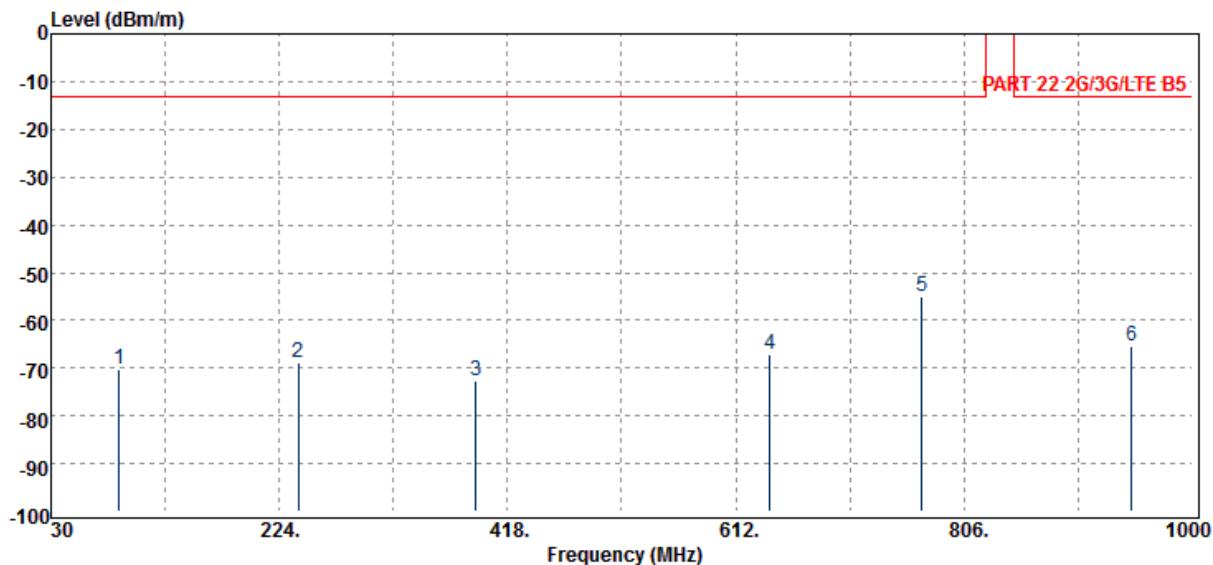


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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B5  | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 4132   | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :826.4 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX LOW    |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :HORIZONTAL       |

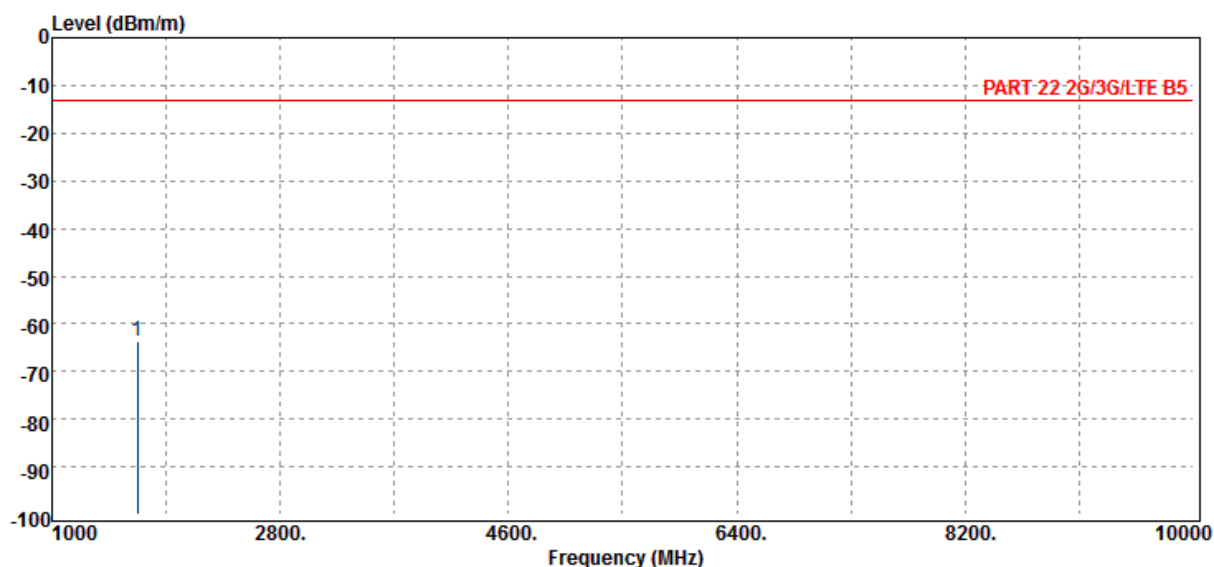
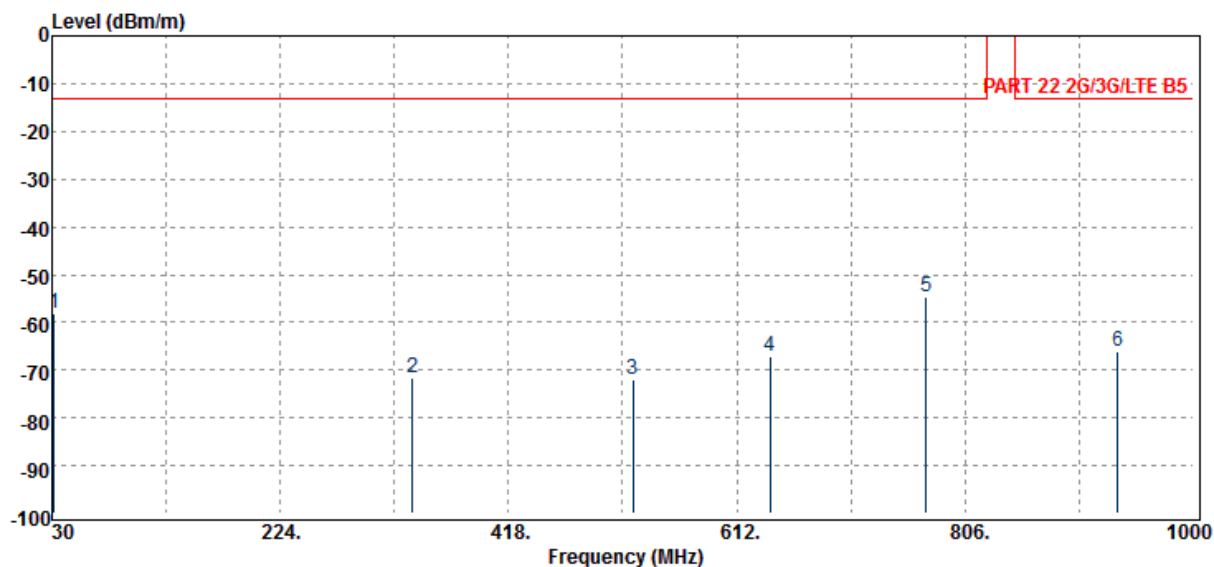


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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B5  | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 4183   | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :836.6 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX MID    |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :VERTICAL         |



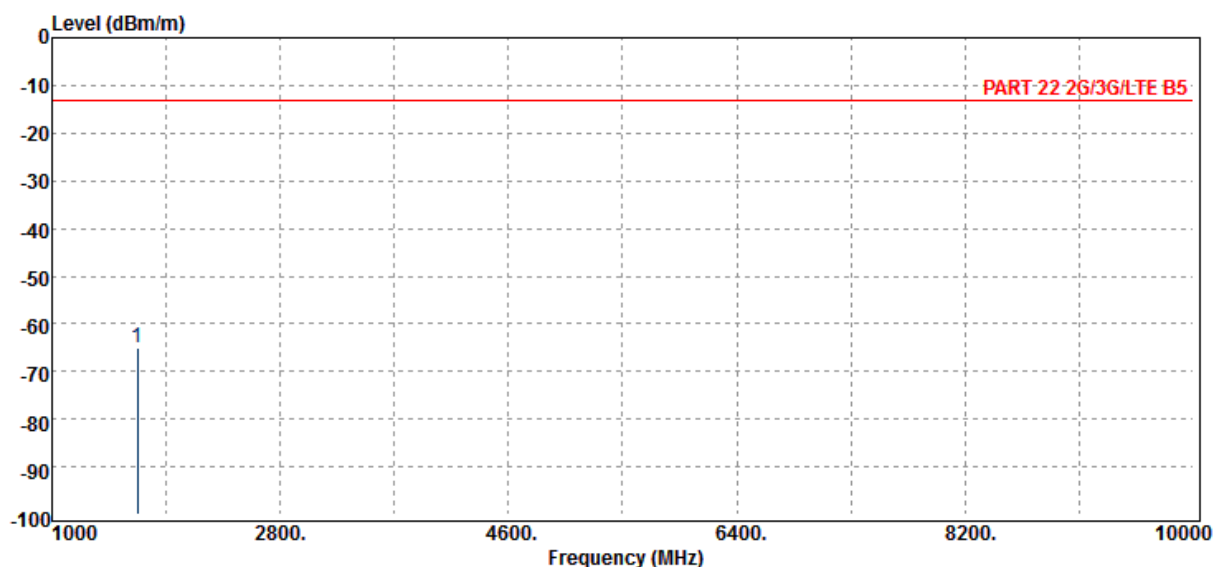
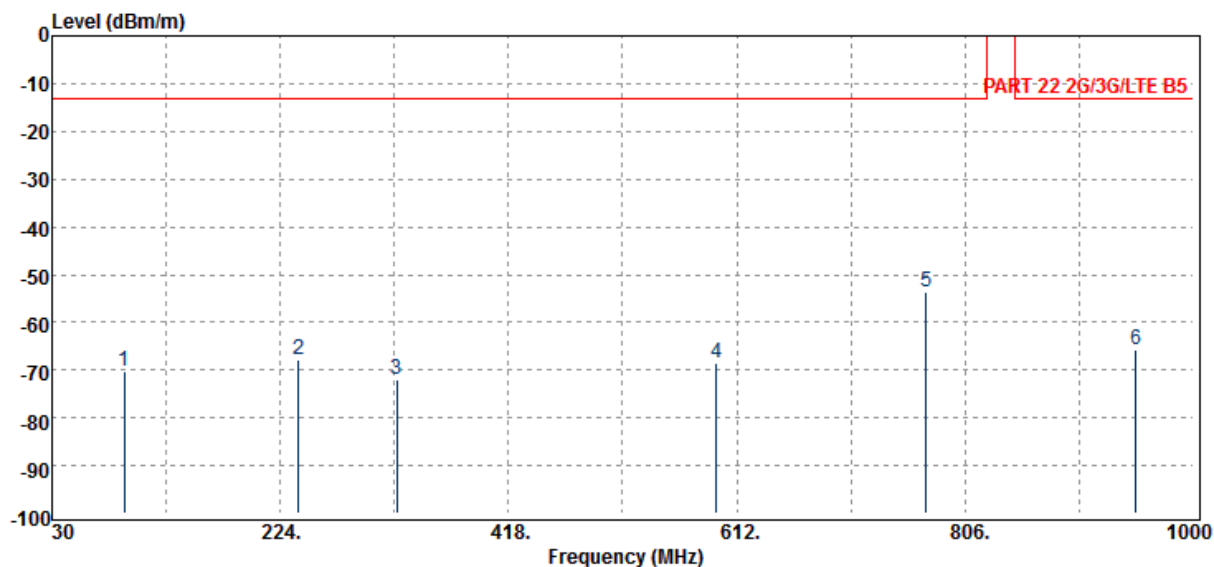
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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B5  | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 4183   | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :836.6 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX MID    |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :HORIZONTAL       |

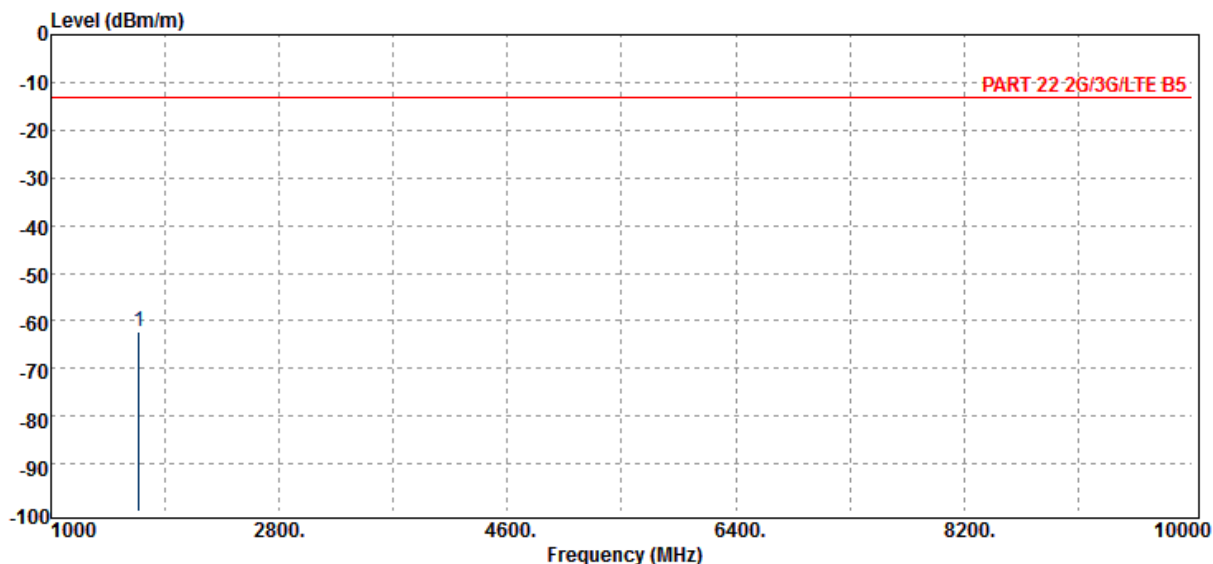
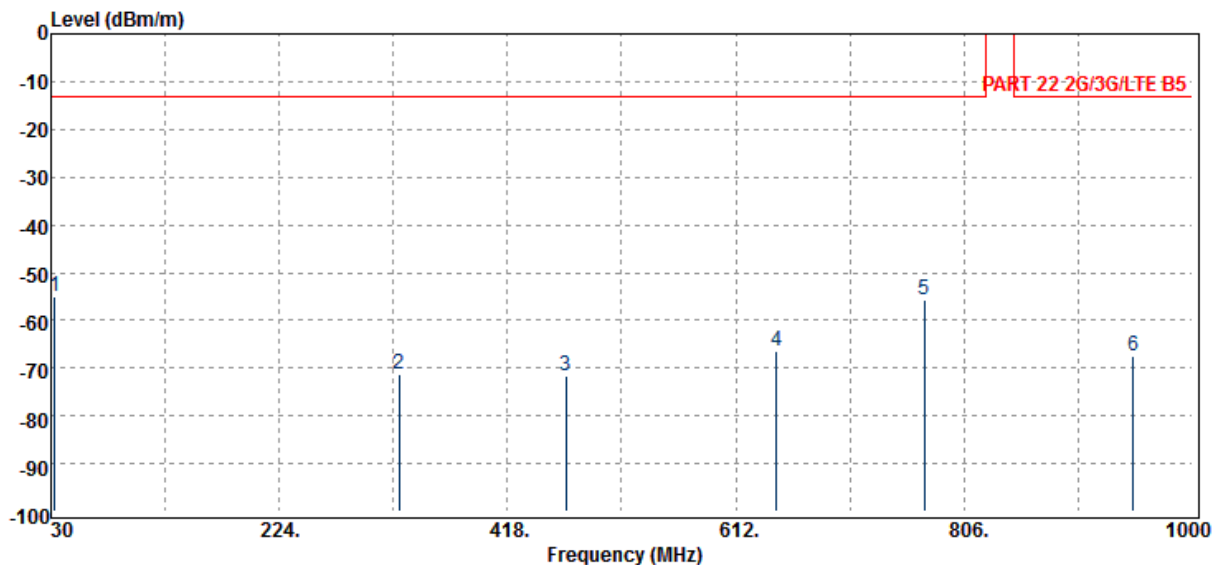


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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B5  | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 4233   | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :846.6 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX HIGH   |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :VERTICAL         |

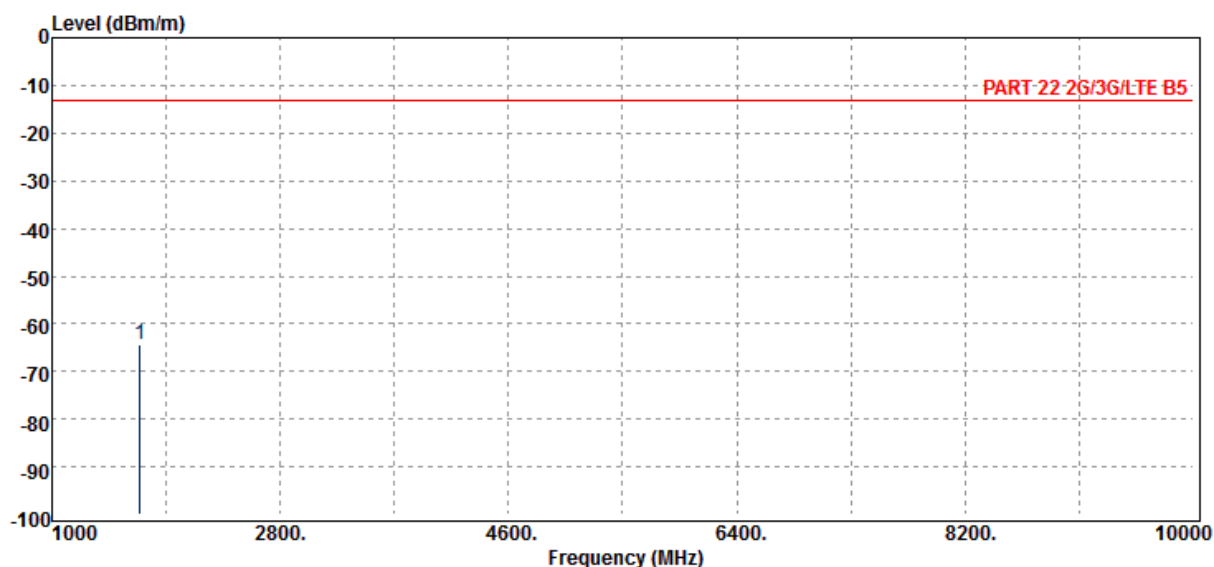
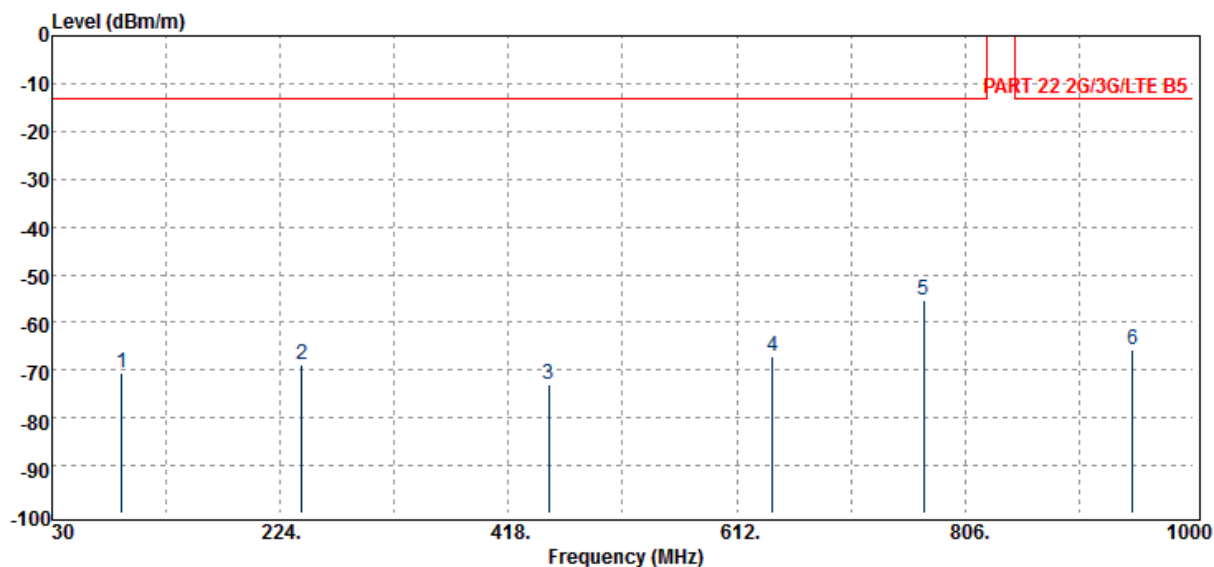


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|                       |            |                          |                   |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band        | :WCDMA B5  | Test Date                | :2014-11-26       |
| ARFCN                 | :CH 4233   | Temp./Humi.              | :23 deg_C / 56 RH |
| Fundamental Frequency | :846.6 MHz | Engineer                 | :Curry            |
| Operation Mode        | :TX HIGH   |                          |                   |
| EUT Pol.              | :H Plane   | Measurement Antenna Pol. | :HORIZONTAL       |



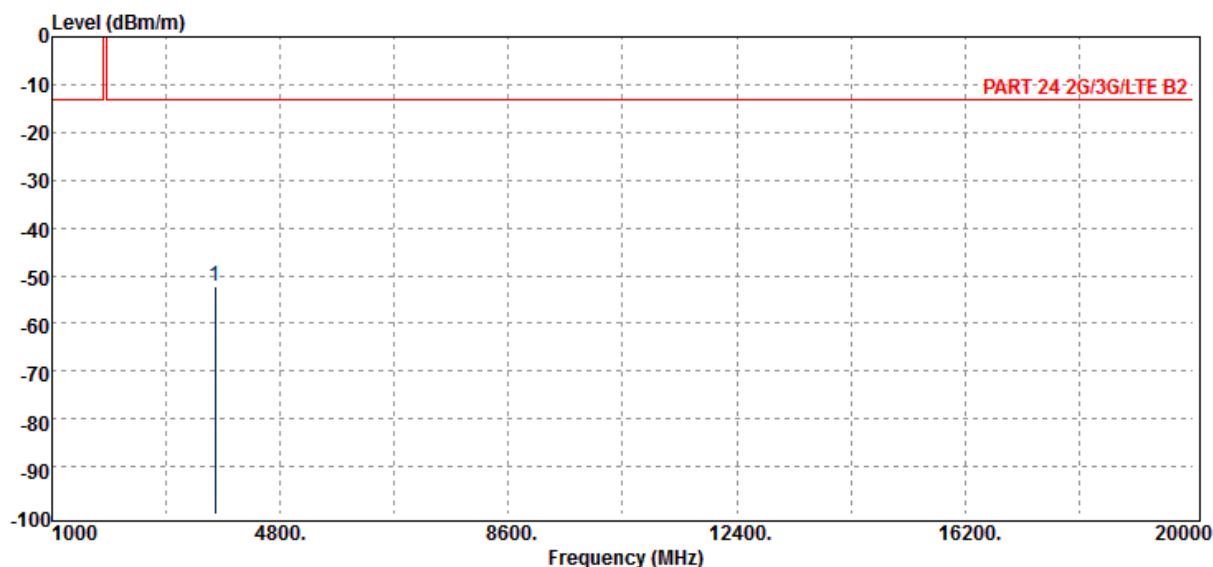
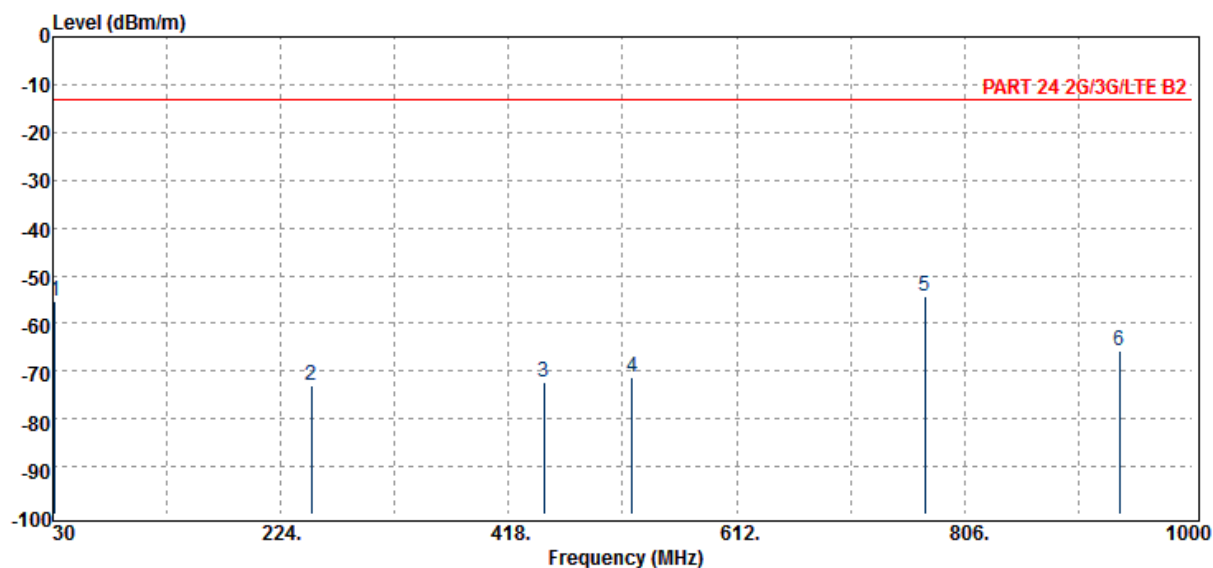
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# Radiated Spurious Emission Measurement Result: 20MHz BW LTE-Band 2(The Worst Case)

|                       |                              |                          |                   |
|-----------------------|------------------------------|--------------------------|-------------------|
| ARFCN                 | :CH 18700 16QAM BW 20 RB 1 0 | Test Date                | :2014-11-20       |
| Operation Band        | :LTE B2                      | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :1860 MHz                    | Engineer                 | :Tin              |
| Operation Mode        | :TX LOW                      |                          |                   |
| EUT Pol.              | :E2 Plane                    | Measurement Antenna Pol. | :VERTICAL         |

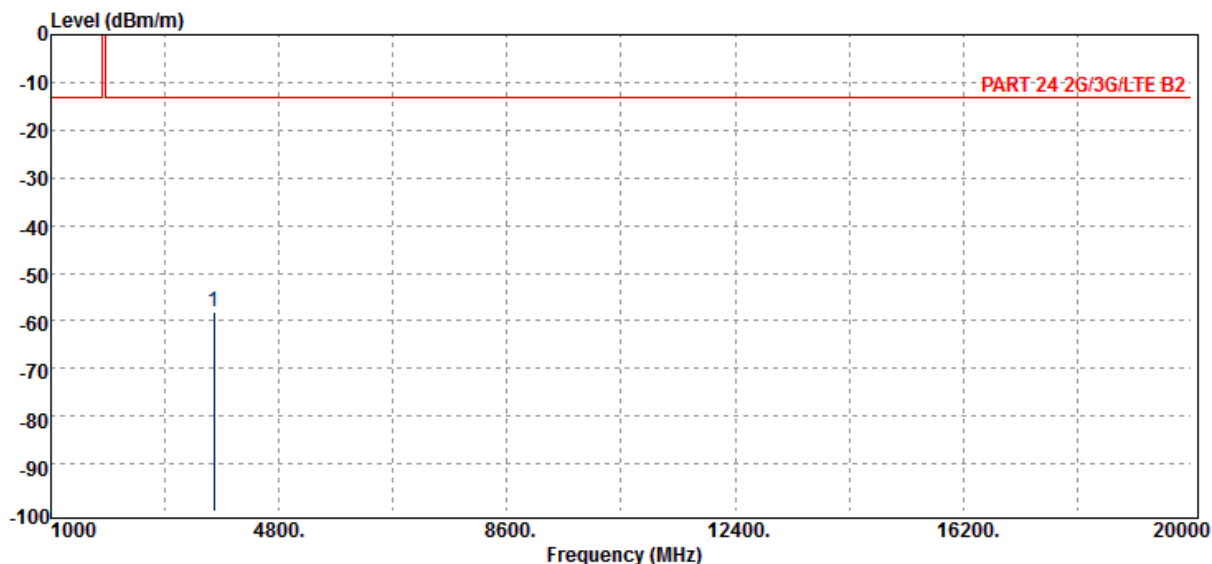
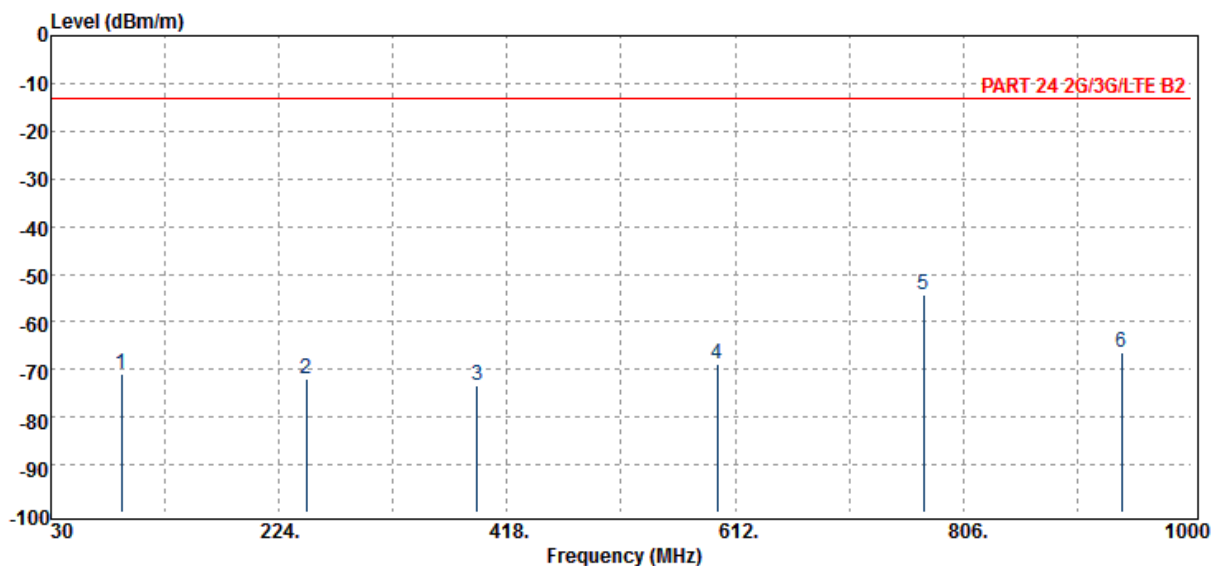


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|                       |                    |                          |                   |
|-----------------------|--------------------|--------------------------|-------------------|
| ARFCN                 | :CH 18700 16QAM BW | Test Date                | :2014-11-20       |
|                       | 20 RB 1 0          |                          |                   |
| Operation Band        | :LTE B2            | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :1860 MHz          | Engineer                 | :Tin              |
| Operation Mode        | :TX LOW            |                          |                   |
| EUT Pol.              | :E2 Plane          | Measurement Antenna Pol. | :HORIZONTAL       |

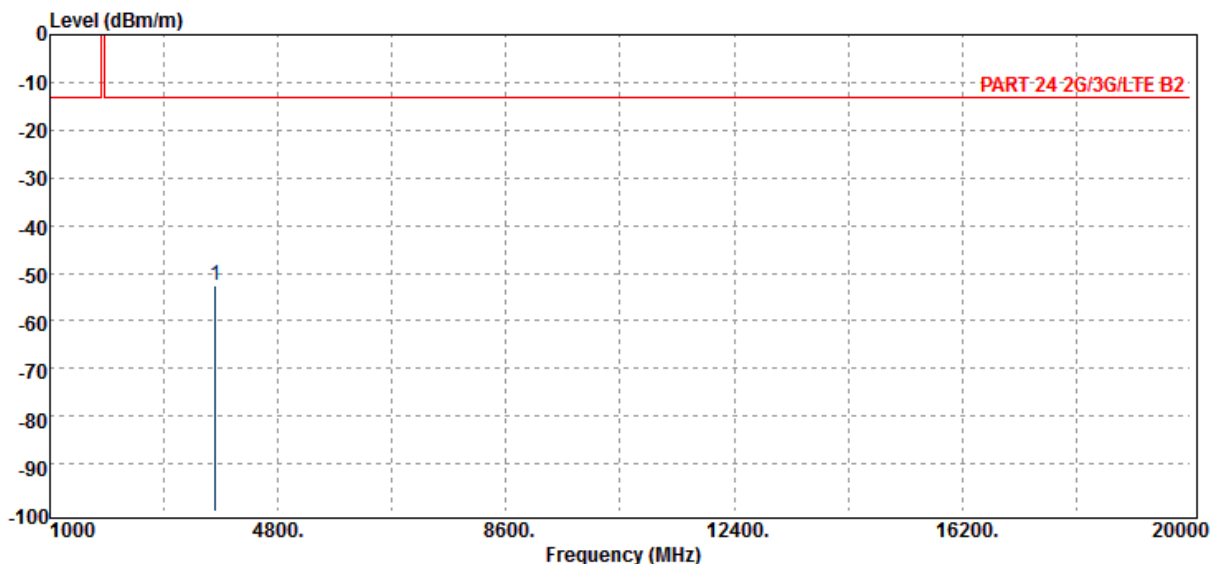
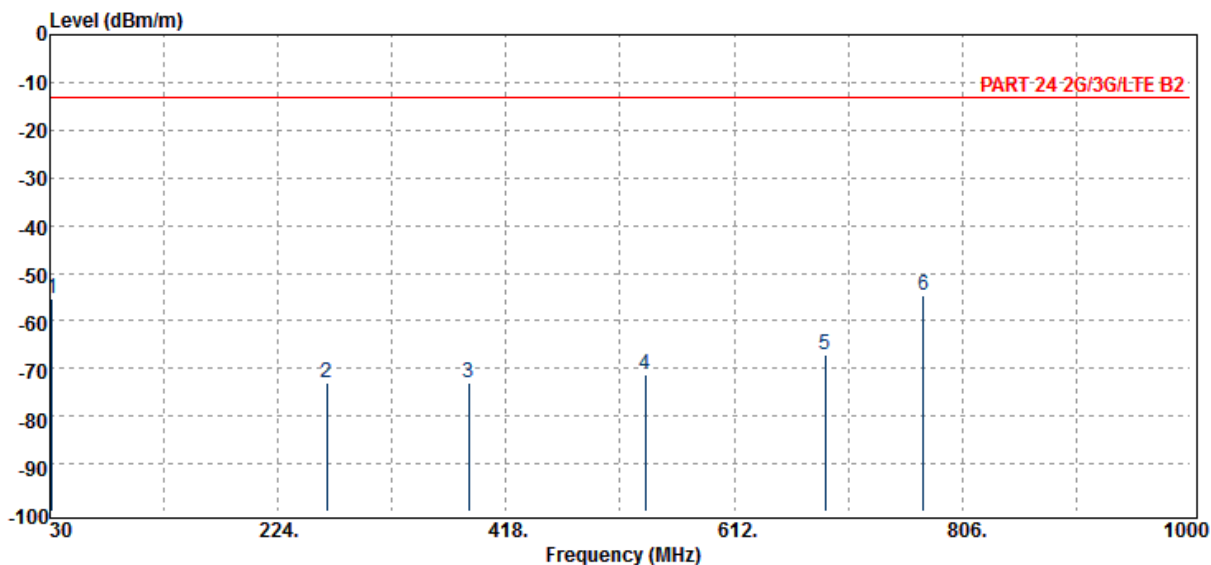


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|                       |                              |                          |                   |
|-----------------------|------------------------------|--------------------------|-------------------|
| ARFCN                 | :CH 18900 16QAM BW 20 RB 1 0 | Test Date                | :2014-11-20       |
| Operation Band        | :LTE B2                      | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :1880 MHz                    | Engineer                 | :Tin              |
| Operation Mode        | :TX MID                      |                          |                   |
| EUT Pol.              | :E2 Plane                    | Measurement Antenna Pol. | :VERTICAL         |

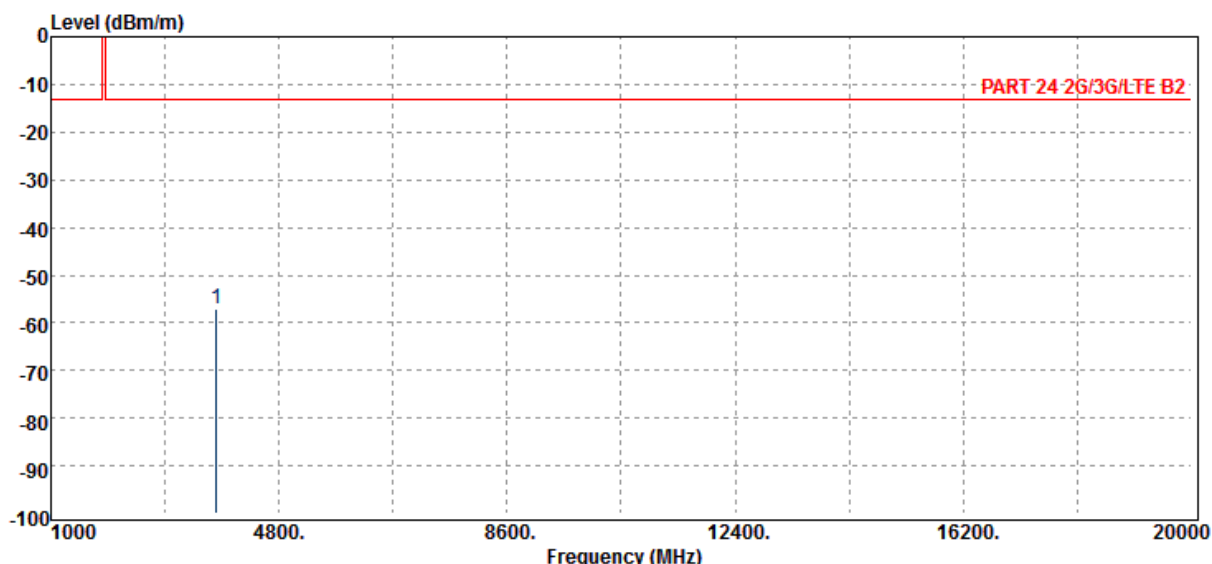
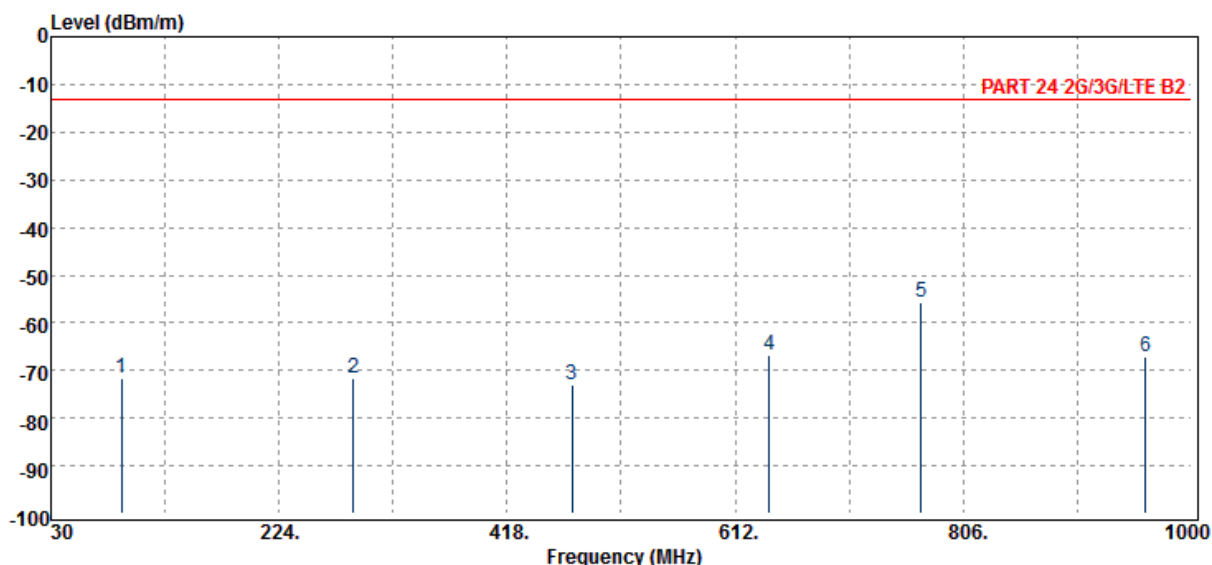


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|                       |                              |                          |                   |
|-----------------------|------------------------------|--------------------------|-------------------|
| ARFCN                 | :CH 18900 16QAM BW 20 RB 1 0 | Test Date                | :2014-11-20       |
| Operation Band        | :LTE B2                      | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :1880 MHz                    | Engineer                 | :Tin              |
| Operation Mode        | :TX MID                      |                          |                   |
| EUT Pol.              | :E2 Plane                    | Measurement Antenna Pol. | :HORIZONTAL       |

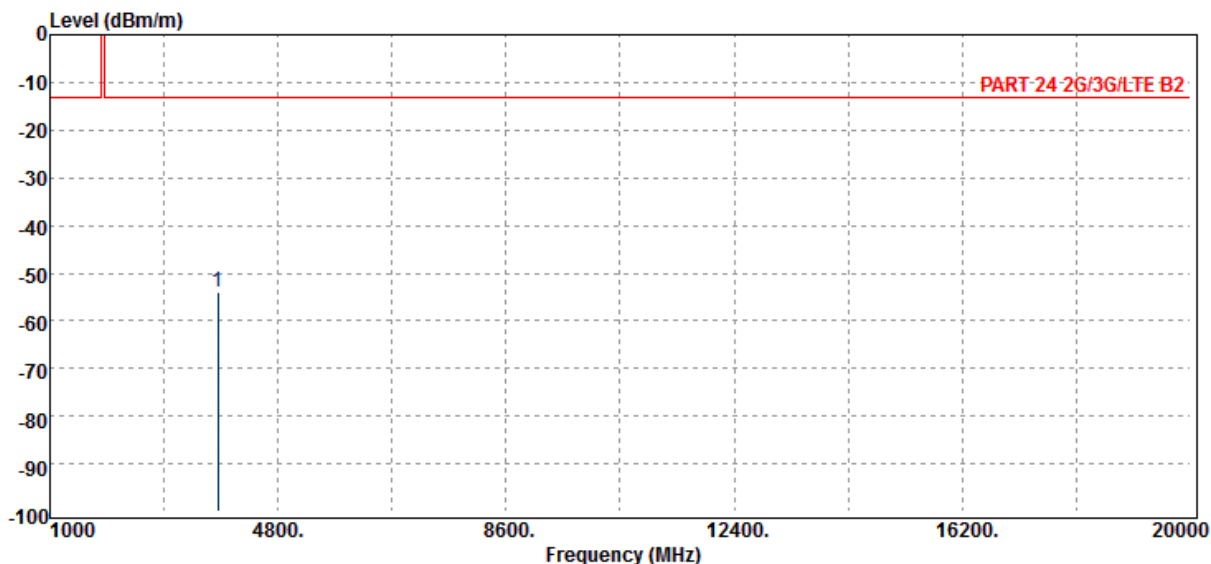
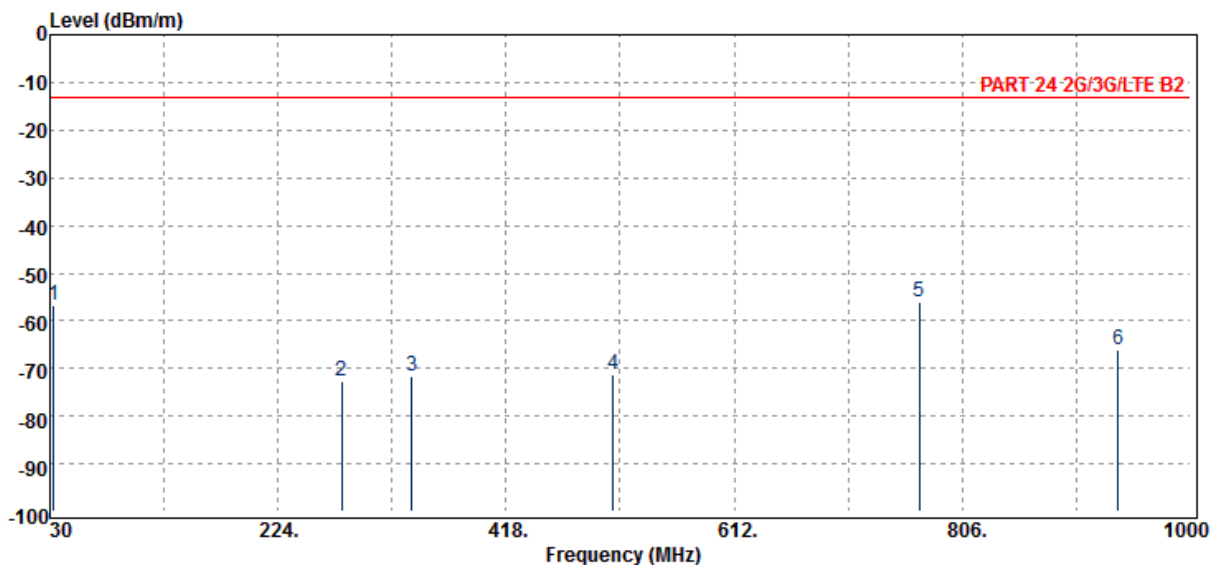


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|                       |                              |                          |                   |
|-----------------------|------------------------------|--------------------------|-------------------|
| ARFCN                 | :CH 19100 16QAM BW 20 RB 1 0 | Test Date                | :2014-11-20       |
| Operation Band        | :LTE B2                      | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :1900 MHz                    | Engineer                 | :Tin              |
| Operation Mode        | :TX HIGH                     |                          |                   |
| EUT Pol.              | :E2 Plane                    | Measurement Antenna Pol. | :VERTICAL         |



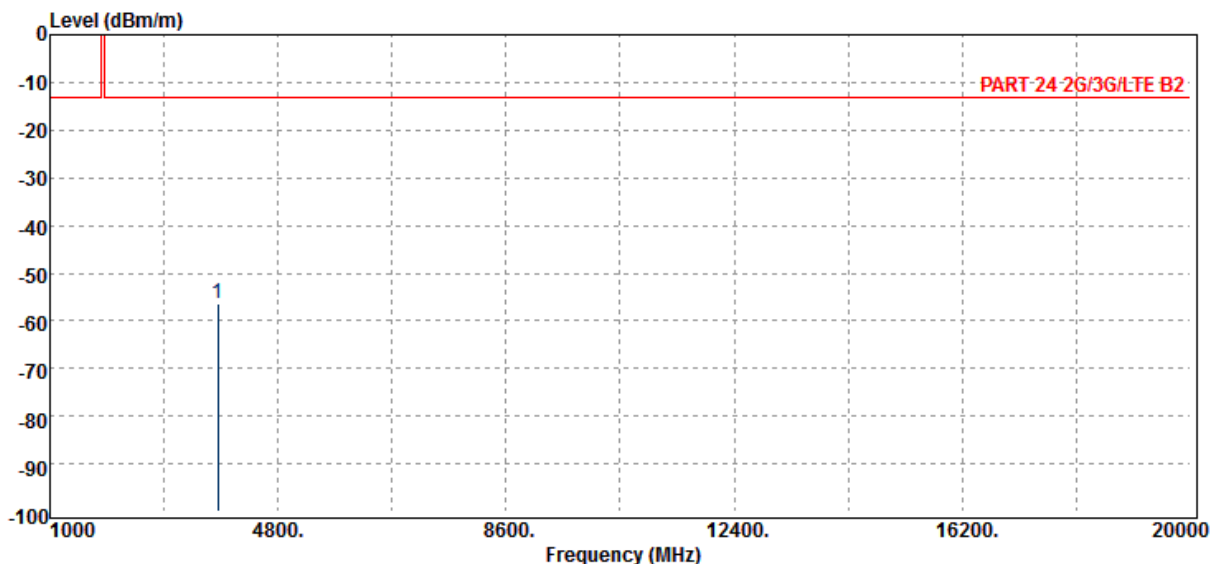
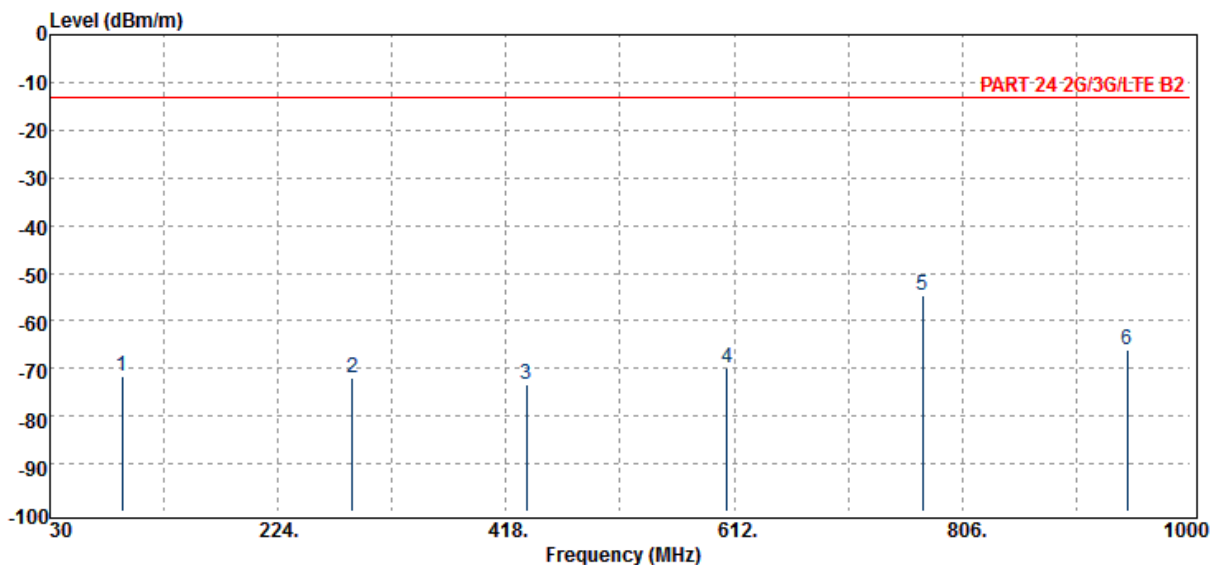
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|                       |                    |                          |                   |
|-----------------------|--------------------|--------------------------|-------------------|
| ARFCN                 | :CH 19100 16QAM BW | Test Date                | :2014-11-20       |
|                       | 20 RB 1 0          |                          |                   |
| Operation Band        | :LTE B2            | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :1900 MHz          | Engineer                 | :Tin              |
| Operation Mode        | :TX HIGH           |                          |                   |
| EUT Pol.              | :E2 Plane          | Measurement Antenna Pol. | :HORIZONTAL       |



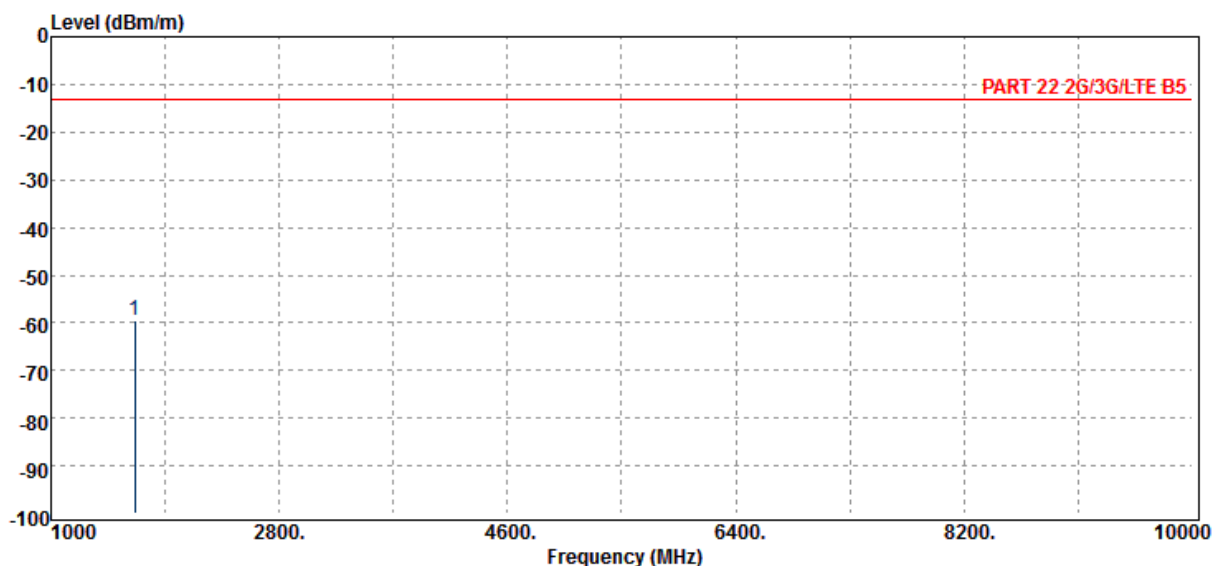
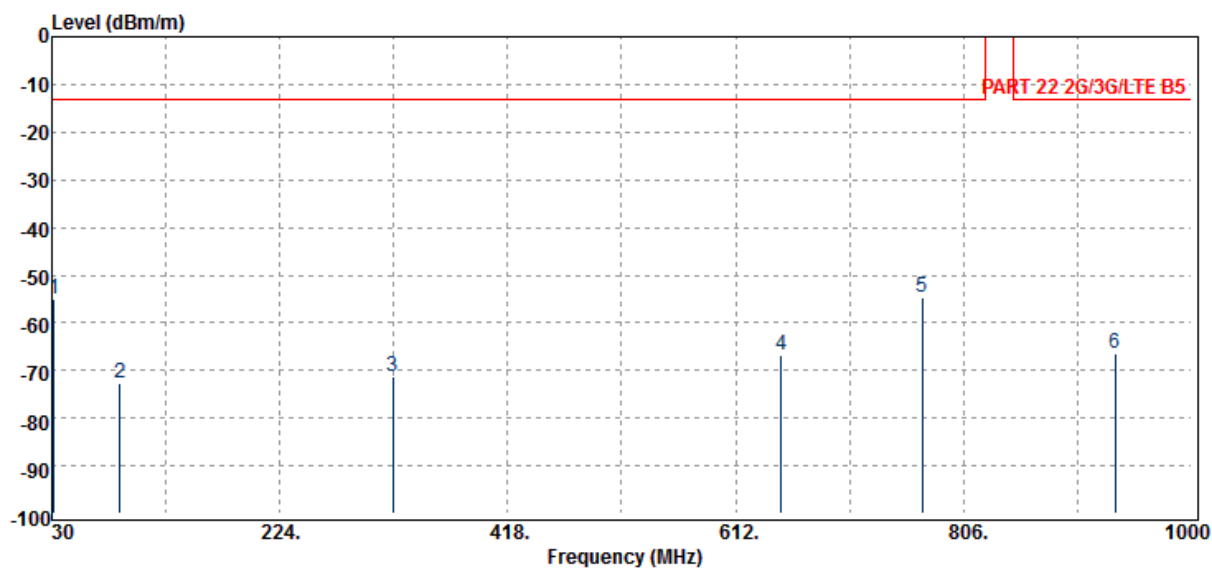
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## Radiated Spurious Emission Measurement Result: 10MHz BW LTE-Band5(The Worst Case)

|                       |                    |                          |                   |
|-----------------------|--------------------|--------------------------|-------------------|
| ARFCN                 | :CH 20450 16QAM BW | Test Date                | :2014-11-26       |
|                       | 10 RB 1 0          |                          |                   |
| Operation Band        | :LTE B5            | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :829 MHz           | Engineer                 | :Curry            |
| Operation Mode        | :TX LOW            |                          |                   |
| EUT Pol.              | :H Plane           | Measurement Antenna Pol. | :VERTICAL         |

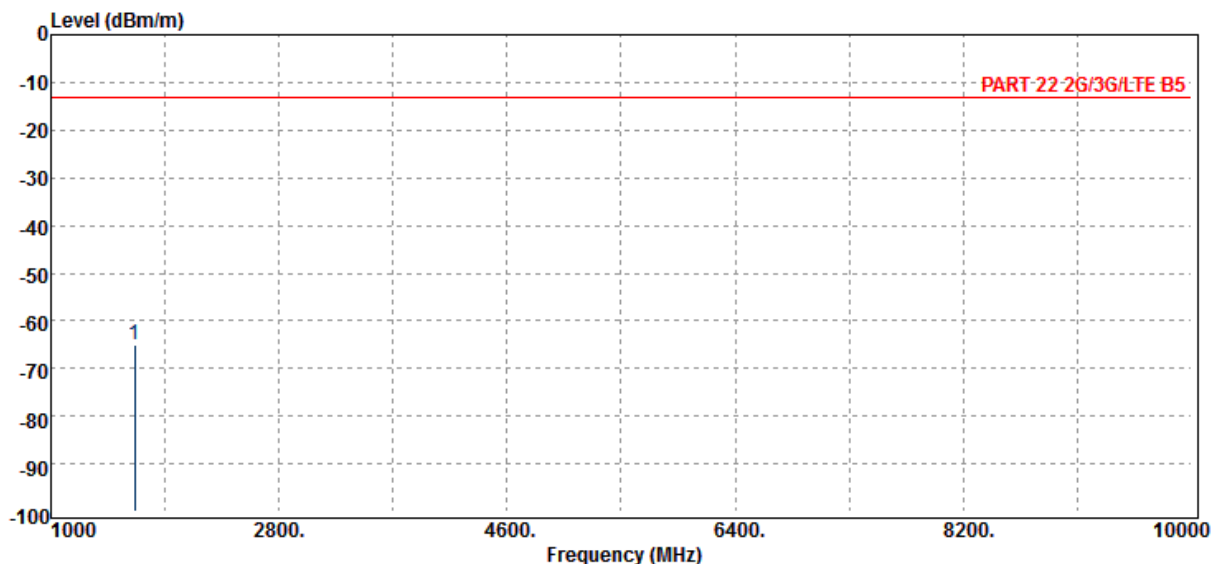
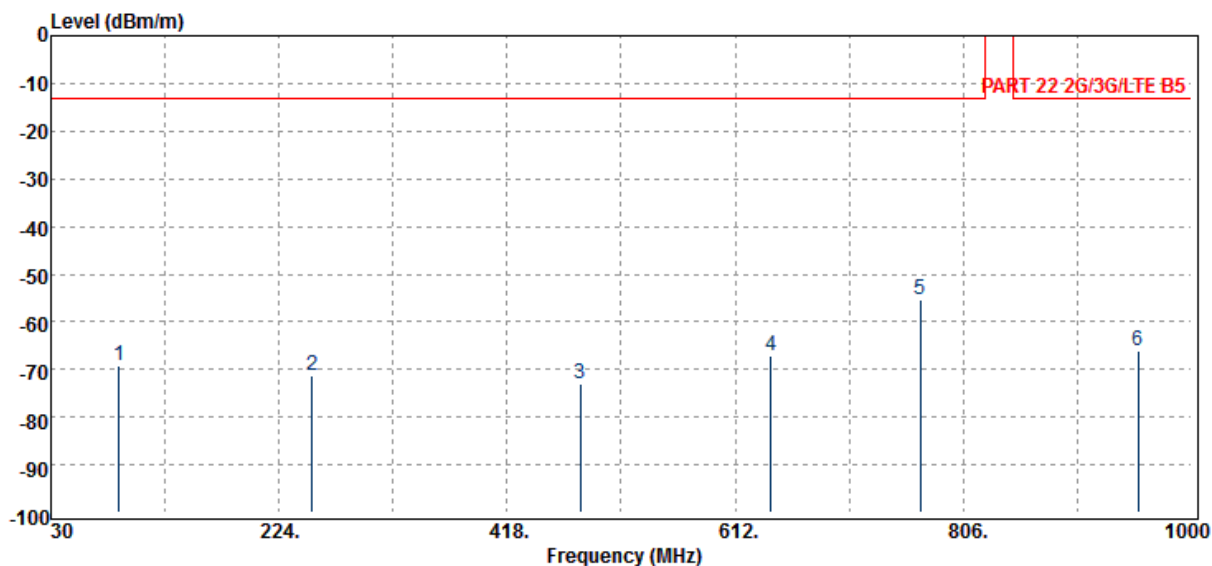


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|                       |                    |                          |                   |
|-----------------------|--------------------|--------------------------|-------------------|
| ARFCN                 | :CH 20450 16QAM BW | Test Date                | :2014-11-26       |
|                       | 10 RB 1 0          |                          |                   |
| Operation Band        | :LTE B5            | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :829 MHz           | Engineer                 | :Curry            |
| Operation Mode        | :TX LOW            |                          |                   |
| EUT Pol.              | :H Plane           | Measurement Antenna Pol. | :HORIZONTAL       |

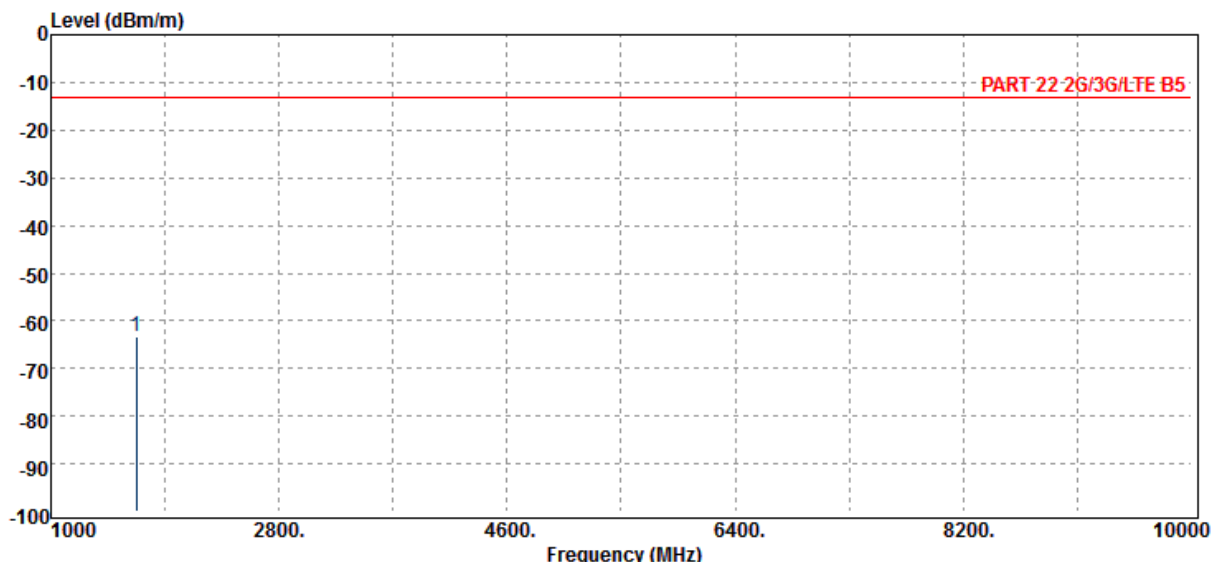
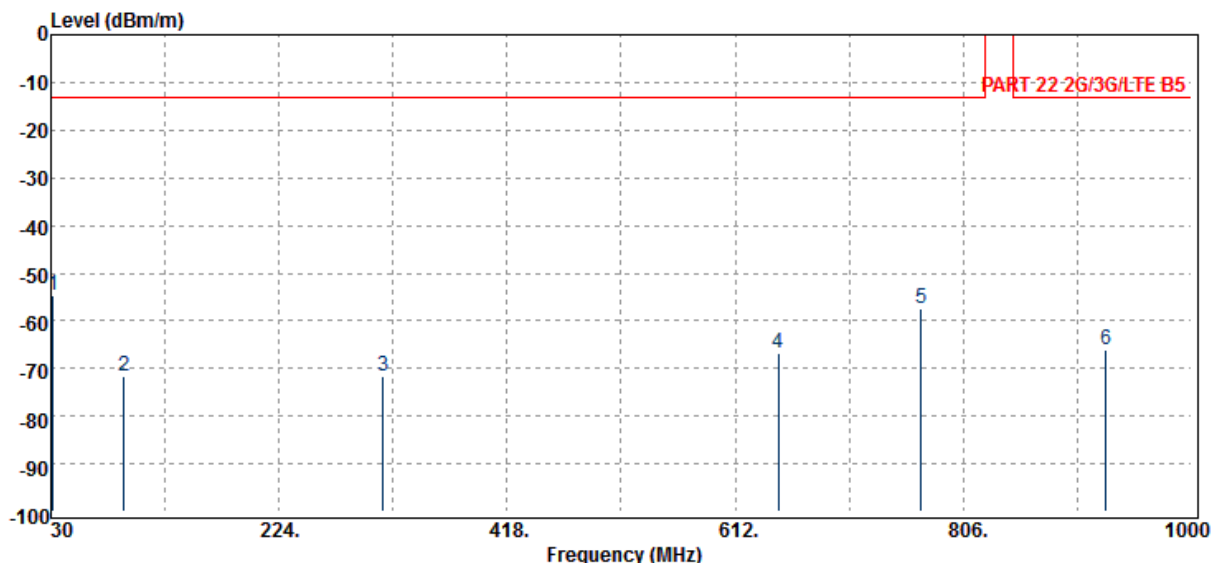


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|                       |                              |                          |                   |
|-----------------------|------------------------------|--------------------------|-------------------|
| ARFCN                 | :CH 20525 16QAM BW 10 RB 1 0 | Test Date                | :2014-11-26       |
| Operation Band        | :LTE B5                      | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :836.5 MHz                   | Engineer                 | :Curry            |
| Operation Mode        | :TX MID                      |                          |                   |
| EUT Pol.              | :H Plane                     | Measurement Antenna Pol. | :VERTICAL         |

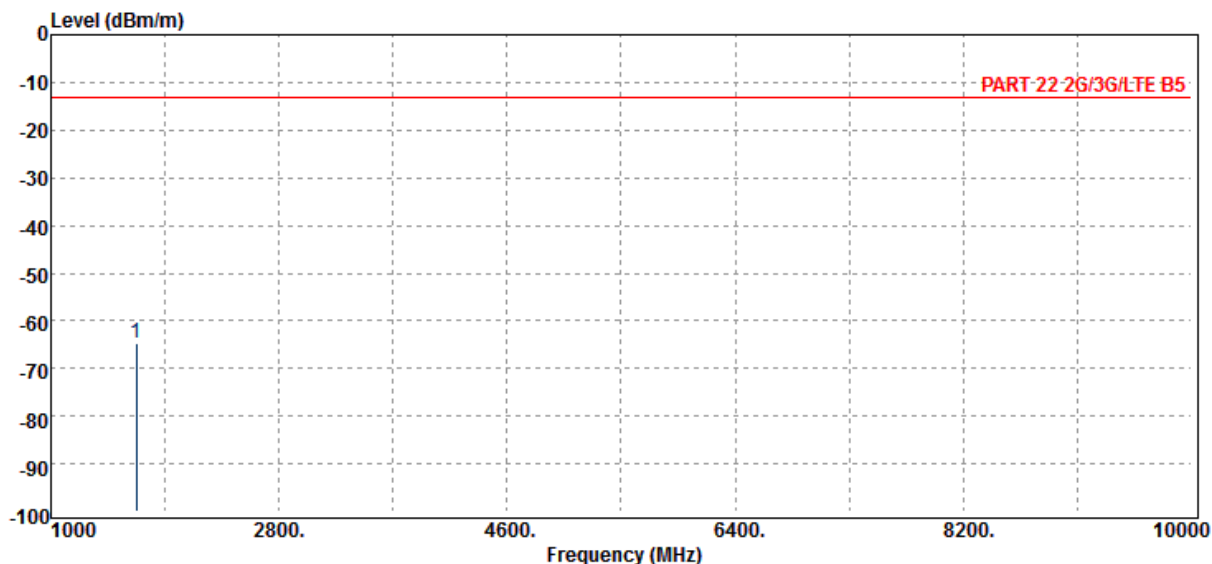
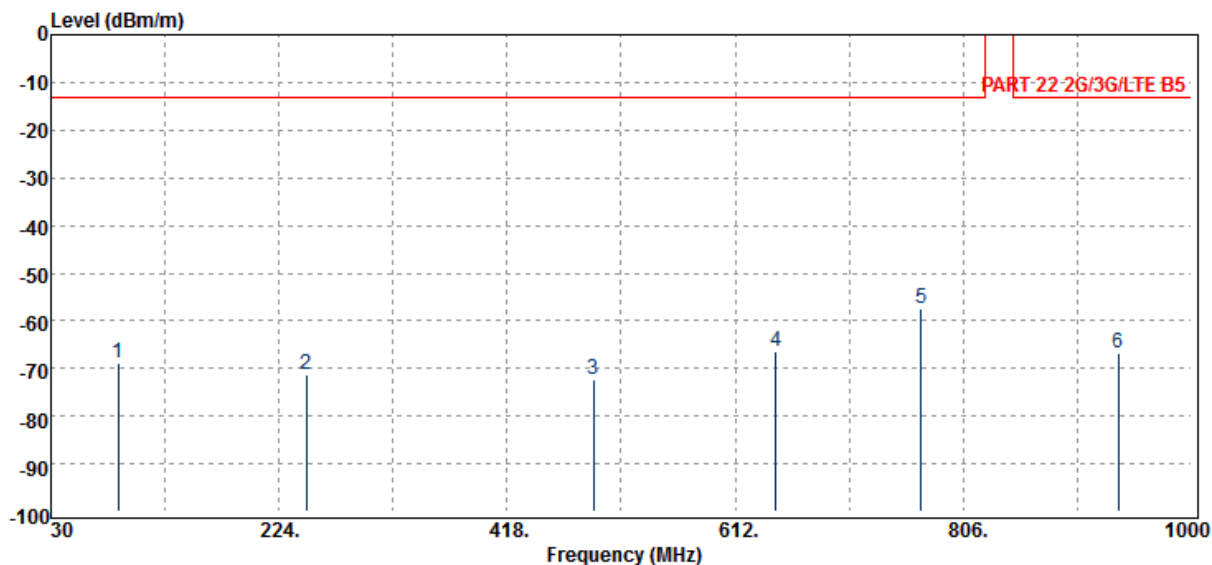


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|                       |                              |                          |                   |
|-----------------------|------------------------------|--------------------------|-------------------|
| ARFCN                 | :CH 20525 16QAM BW 10 RB 1 0 | Test Date                | :2014-11-26       |
| Operation Band        | :LTE B5                      | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :836.5 MHz                   | Engineer                 | :Curry            |
| Operation Mode        | :TX MID                      |                          |                   |
| EUT Pol.              | :H Plane                     | Measurement Antenna Pol. | :HORIZONTAL       |

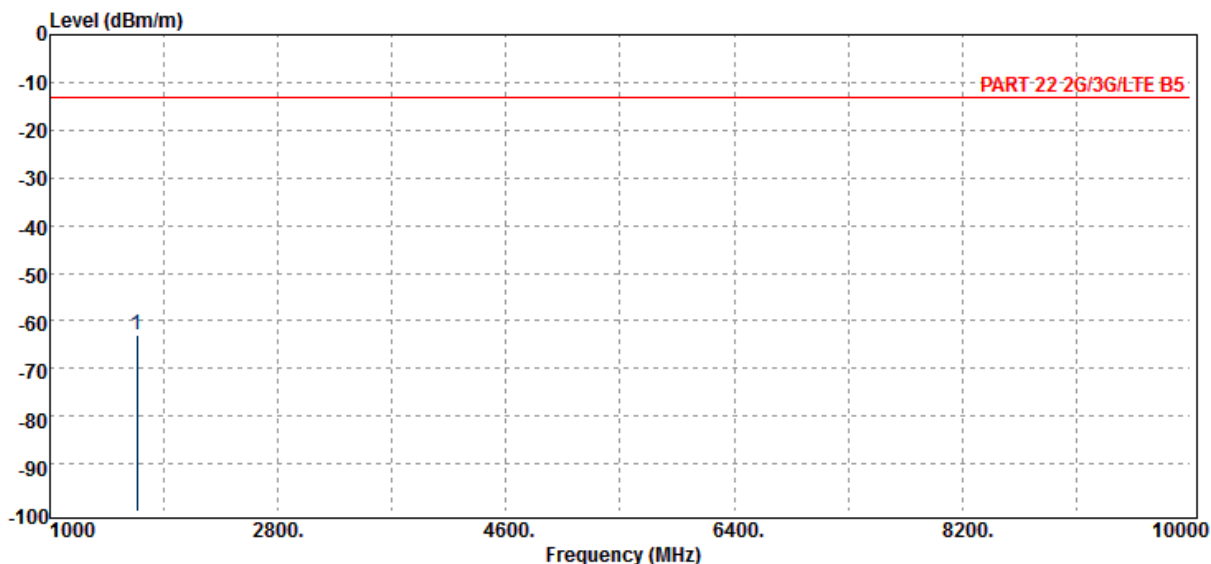
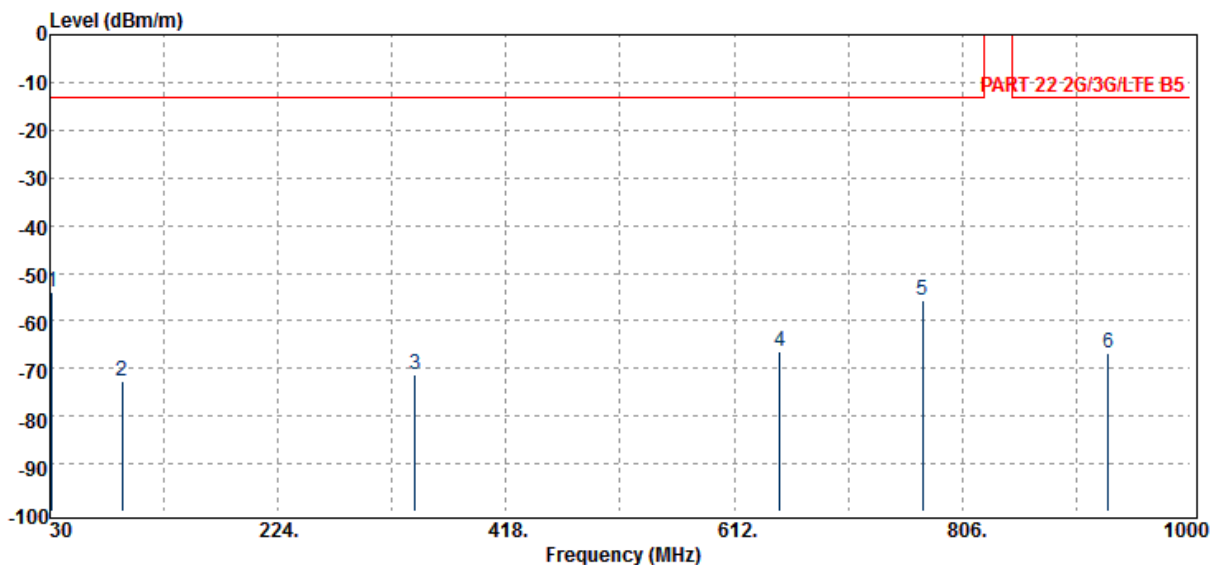


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|                       |                              |                          |                   |
|-----------------------|------------------------------|--------------------------|-------------------|
| ARFCN                 | :CH 20600 16QAM BW 10 RB 1 0 | Test Date                | :2014-11-26       |
| Operation Band        | :LTE B5                      | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :844 MHz                     | Engineer                 | :Curry            |
| Operation Mode        | :TX HIGH                     |                          |                   |
| EUT Pol.              | :H Plane                     | Measurement Antenna Pol. | :VERTICAL         |

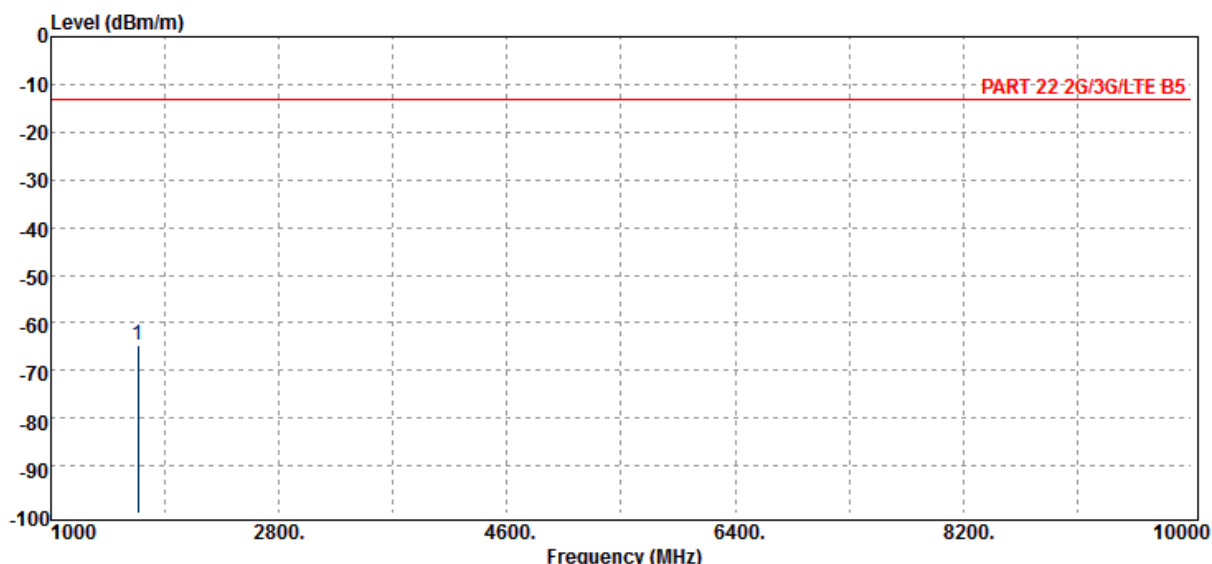
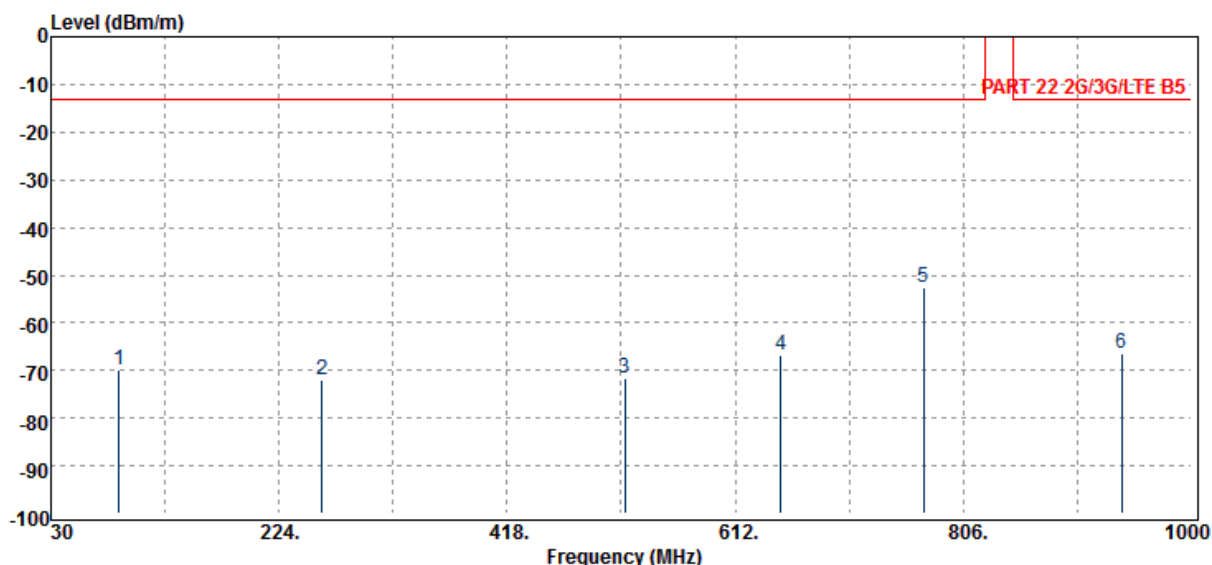


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|                       |                              |                          |                   |
|-----------------------|------------------------------|--------------------------|-------------------|
| ARFCN                 | :CH 20600 16QAM BW 10 RB 1 0 | Test Date                | :2014-11-26       |
| Operation Band        | :LTE B5                      | Temp./Humi.              | :23 deg_C / 58 RH |
| Fundamental Frequency | :844 MHz                     | Engineer                 | :Curry            |
| Operation Mode        | :TX HIGH                     |                          |                   |
| EUT Pol.              | :H Plane                     | Measurement Antenna Pol. | :HORIZONTAL       |



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