

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C REQUIREMENT**

OF

Product Name: Smart Display

Marketing Name: N/A

Brand Name: BenQ

Model No.: CT2200

Model Difference: N/A

FCC ID: JVPCT2200

Report No.: EF/2013/40002

Issue Date: Apr. 30, 2013

Rule Part: §15.247, Cat: DSS

Prepared for: BenQ Corporation
16 Jihu Road, Neihu, Taipei 114, Taiwan

Prepared by: SGS Taiwan Ltd.
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CERTIFICATION OF COMPLIANCE

Applicant: BenQ Corporation
 16 Jihu Road, Neihu, Taipei 114, Taiwan

Product Name: Smart Display

Marketing Name: N/A

Brand Name: BenQ

FCC ID: JVPCT2200

Model No.: CT2200

Model Difference: N/A

File Number: EF/2013/40002

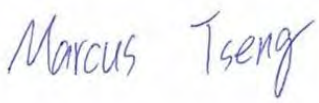
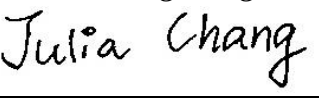

Date of test: Apr. 09, 2013 ~Apr. 30, 2013

Date of EUT Received: Apr. 09, 2013

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2009) 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 Rules Part 15C:2007, §15.247.

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

| | | | |
|---------------------|---|--------------|---------------|
| Test By: |  | Date: | Apr. 30, 2013 |
| | _____ <i>Marcus Tseng / Engineer</i> | | _____ |
| Prepared By: |  | Date: | Apr. 30, 2013 |
| | _____ <i>Julia Chang / Clerk</i> | | _____ |
| Approved By: |  | Date: | Apr. 30, 2013 |
| | _____ <i>Jim Chang / Supervisor</i> | | _____ |

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Version

| Version No. | Date | Description |
|-------------|---------------|------------------------------|
| 00 | Apr. 30, 2013 | Initial creation of document |
| | | |
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1. GENERAL INFORMATION

1.1. Product Description

General:

| | | |
|-------------------|---------------------------------|--|
| Product Name: | Smart Display | |
| Marketing Name: | N/A | |
| Brand Name: | BenQ | |
| Model No.: | CT2200 | |
| Model Difference: | N/A | |
| Hardware Version: | N/A | |
| Software Version: | N/A | |
| Data Cable: | Model No.: N/A, Supplier: N/A | |
| HDMI Cable: | Model No.: N/A, Supplier: N/A | |
| Power Supply: | 100-240V by AC/DC power adapter | |
| | Adapter: | 1. Model: ADP-40PH BB, Supplier: Delta 2. Model: CPA09-002A, Supplier:Chicony |

Bluetooth:

| | |
|----------------------|---|
| Bluetooth Version: | <input type="checkbox"/> V1.1 (GFSK) <input type="checkbox"/> V1.2 (GFSK) <input type="checkbox"/> V2.0 (GFSK) <input type="checkbox"/> V2.0 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK) <input checked="" type="checkbox"/> V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK) |
| Frequency Range: | 2402 – 2480MHz |
| Channel number: | 79 channels max. |
| Rated Power: | 4.31 dBm (Peak) |
| Modulation type: | Frequency Hopping Spread Spectrum |
| Antenna Designation: | (1) PIFA Antenna, Model No.: UI2A, Gain: 2.88 dBi (2) PIFA Antenna, Model No.: UI2, Gain: 2.73 dBi |

The EUT is compliance with Bluetooth V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK) standard.

This test report applies for Bluetooth function.

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

This submittal(s) (test report) is intended for **FCC ID: JVPCT2200** filing to comply with Section 15.247 of the FCC Part 15C, Subpart C Rules. The composite system (digital device) is compliance with Subpart B is authorized under a Doc procedure.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2009). Radiated testing was performed at an antenna to EUT distance 3 meters.

Tested in accordance with FCC Public Notice DA 00-705

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. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2009. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-4.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

1.5. Special Accessories

Not available for this EUT intended for grant.

1.6. Equipment Modifications

Not available for this EUT intended for grant.

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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 tested with a test program to fix the Tx/RX frequency that was for the purpose of the measurements. For more information please see test data and APPENDIX 1 for set-up photographs.

2.3. Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7, 13 of ANSI C63.4-2009. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

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 and DA 00-705.

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2.4. Configuration of Tested System

Fig. 2-1 Configuration of Tested System

Radiated Emission

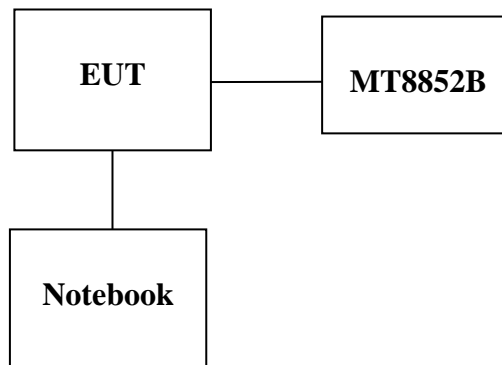


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/ Type No. | Series No. |
|------|--------------------|-----------|--------------------|------------|
| 1. | Bluetooth Test Set | Anritsu | MT8852B | 6k00006107 |
| 2. | Notebook | Lenovo | L412 | LR-957X7 |

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3. SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|---------------------|---|-----------|
| §15.207(a) | AC Power line Conducted Emission | Compliant |
| §15.247(b)(1) | Peak Output Power | Compliant |
| §15.247(d) | 100 KHz Bandwidth Of Frequency Band Edges | Compliant |
| §15.247(c) | TX/RX Spurious Emission | Compliant |
| §15.247(a)(1) | Frequency Separation | Compliant |
| §15.247(a)(1)(iii) | Number of hopping frequency | Compliant |
| §15.247(a)(1)(ii) | Time of Occupancy | Compliant |
| §15.247 | Peak Power Density | Compliant |
| §15.247(a)(1) | 20dB Bandwidth | Compliant |
| §15.203, §15.247(c) | Antenna Requirement | Compliant |

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel low (2402MHz) 、mid (2441MHz) and high (2480MHz) with worst case EDR mode is chosen for full testing.

Pre-scanned was done on antenna: UI2A and antenna UI2, and antenna UI2A results higher emission. Therefore, the completed set of measurement was done on antenna: UI2A, and presented on this test report.

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5. MEASUREMENT UNCERTAINTY FOR FIELD STRENGTH OF SPURIOUS RADIATION

| | |
|--|------------------------|
| Measurement uncertainty (Polarization : Vertical) | 30MHz - 180MHz: 3.37dB |
| | 180MHz -417MHz: 3.19dB |
| | 0.417GHz-1GHz: 3.19dB |
| | 1GHz - 18GHz: 4.04dB |
| | 18GHz - 40GHz: 4.04dB |

| | |
|--|------------------------|
| Measurement uncertainty (Polarization : Horizontal) | 30MHz - 167MHz: 4.22dB |
| | 167MHz -500MHz: 3.44dB |
| | 0.5GHz-1GHz: 3.39dB |
| | 1GHz - 18GHz: 4.08dB |
| | 18GHz - 40GHz: 4.08dB |

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6. AC POWER LINE CONDUCTED EMISSION TEST

6.1. Standard Applicable:

According to §15.207, frequency range within 150KHz to 30MHz shall not exceed the Limit table as below.

| Frequency range MHz | Limits dB(uV) | |
|------------------------|------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2. Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|------------|-------------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCI7 | 100759 | 05/20/2011 | 05/19/2013 |
| EMI Receiver | R&S | ESCS 30 | 828985/004 | 09/23/2012 | 09/22/2013 |
| LISN | Rolf-Heine | NNB-2/16Z | 99012 | 03/23/2013 | 03/22/2014 |
| LISN | FCC | FCC-LISN-50/250-25-2-01 | 04034 | 03/23/2013 | 03/22/2014 |
| Coaxial Cables | N/A | WK CE Cable | N/A | 01/05/2013 | 01/04/2014 |

6.3. EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2009.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4. Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

6.5. Measurement Result:

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Note: Refer to next page for measurement data and plots.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | |
|-----------------|----------------|------------|--------------|
| Operation Mode: | Bluetooth Mode | Test Date: | Apr.09, 2013 |
| Temperature: | 26 °C | Humidity: | 60 % |
| | | Test By: | Marucs |

| | | |
|--|---|-------------------------------------|
| Site: ConductionRoom Limit: FCC Class B Conduction(QP) EUT: 桌上型平板電腦 (SmartDisplay) M/N: CT2200 Note: Operationmode Adapter: ADP-40PH BB | Phase: N Power: AC 120V/60Hz Distance: Mode: | Temperature: 26 °C Humidity: 60% |
|--|---|-------------------------------------|

Conducted Emission



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measurement dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|-----------------------|----------------------|---------------------|---------------|------------|----------|---------|
| 1 | | 0.1695 | 47.02 | 0.34 | 47.36 | 64.98 | -17.62 | QP | |
| 2 | | 0.1695 | 22.84 | 0.34 | 23.18 | 54.98 | -31.80 | AVG | |
| 3 | * | 0.1930 | 51.56 | 0.32 | 51.88 | 63.91 | -12.03 | QP | |
| 4 | | 0.1930 | 33.15 | 0.32 | 33.47 | 53.91 | -20.44 | AVG | |
| 5 | | 0.2594 | 45.60 | 0.34 | 45.94 | 61.45 | -15.51 | QP | |
| 6 | | 0.3258 | 42.52 | 0.34 | 42.86 | 59.56 | -16.70 | QP | |
| 7 | | 3.6367 | 32.90 | 0.36 | 33.26 | 56.00 | -22.74 | QP | |
| 8 | | 14.9961 | 39.25 | 0.61 | 39.86 | 60.00 | -20.14 | QP | |

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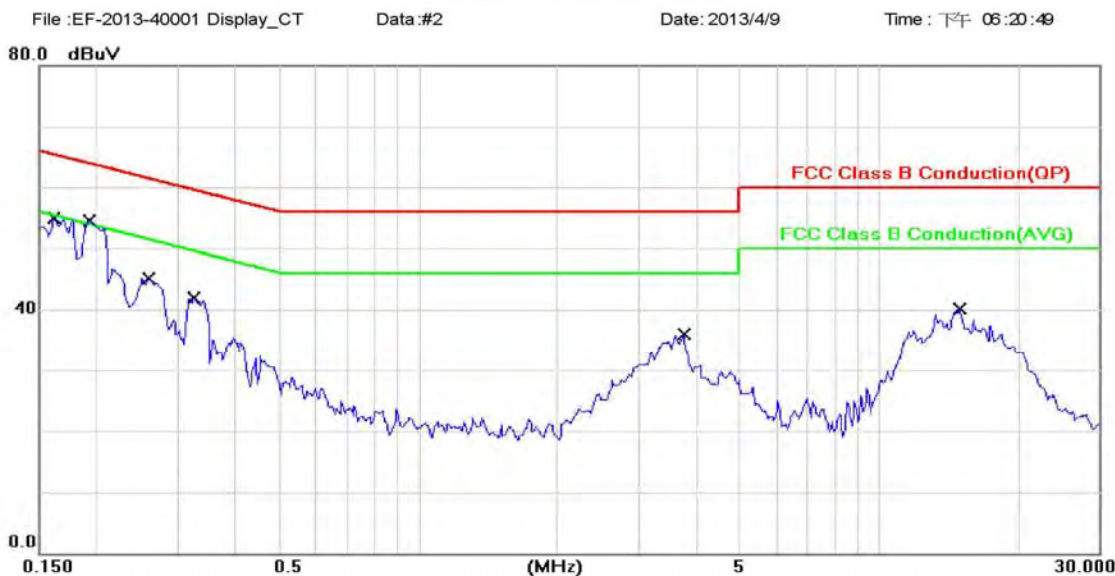
| | | | | | |
|-----------------|----------------|-----------|------|------------|--------------|
| Operation Mode: | Bluetooth Mode | | | Test Date: | Apr.09, 2013 |
| Temperature: | 26 °C | Humidity: | 60 % | Test By: | Marucs |

Site: ConductionRoom
 Limit: FCC Class B Conduction(QP)
 EUT: 桌上型平板電腦 (SmartDisplay)
 M/N: CT2200
 Note: Operation mode
 Adapter : ADP-40PH BB

Phase: L1
 Power: AC 120V/60Hz
 Distance:
 Mode:

Temperature: 26 °C
 Humidity: 60%

Conducted Emission



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.1617 | 45.87 | 0.24 | 46.11 | 65.38 | -19.27 | QP | |
| 2 | | 0.1617 | 21.81 | 0.24 | 22.05 | 55.38 | -33.33 | AVG | |
| 3 | * | 0.1930 | 51.19 | 0.22 | 51.41 | 63.91 | -12.50 | QP | |
| 4 | | 0.1930 | 31.73 | 0.22 | 31.95 | 53.91 | -21.96 | AVG | |
| 5 | | 0.2594 | 44.87 | 0.23 | 45.10 | 61.45 | -16.35 | QP | |
| 6 | | 0.3258 | 41.63 | 0.23 | 41.86 | 59.56 | -17.70 | QP | |
| 7 | | 3.7617 | 35.60 | 0.31 | 35.91 | 56.00 | -20.09 | QP | |
| 8 | | 14.9180 | 39.47 | 0.65 | 40.12 | 60.00 | -19.88 | QP | |

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| | | | | |
|-----------------|----------------|-----------|------------|--------------------|
| Operation Mode: | Bluetooth Mode | | Test Date: | Apr.09, 2013 |
| Temperature: | 26 °C | Humidity: | 60 % | Temperature: 26 °C |

Site: ConductionRoom
 Limit: FCC Class B Conduction(QP)
 EUT: 桌上型平板電腦 (SmartDisplay)
 M/N: CT2200
 Note: Operationmode
 Adapter: CPA09-002A

Phase: L1
 Power: AC 120V/60Hz
 Distance:
 Mode:

Temperature: 26 °C
 Humidity: 60%

Conducted Emission



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measurement dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|-----------------------|----------------------|---------------------|---------------|------------|----------|---------|
| 1 | | 0.1773 | 49.97 | 0.23 | 50.20 | 64.61 | -14.41 | QP | |
| 2 | | 0.1773 | 29.09 | 0.23 | 29.32 | 54.61 | -25.29 | AVG | |
| 3 | | 0.2398 | 46.34 | 0.22 | 46.56 | 62.10 | -15.54 | QP | |
| 4 | * | 0.4547 | 42.52 | 0.22 | 42.74 | 56.79 | -14.05 | QP | |
| 5 | | 0.6641 | 40.89 | 0.23 | 41.12 | 56.00 | -14.88 | QP | |
| 6 | | 4.9531 | 40.10 | 0.34 | 40.44 | 56.00 | -15.56 | QP | |
| 7 | | 11.8750 | 39.34 | 0.52 | 39.86 | 60.00 | -20.14 | QP | |

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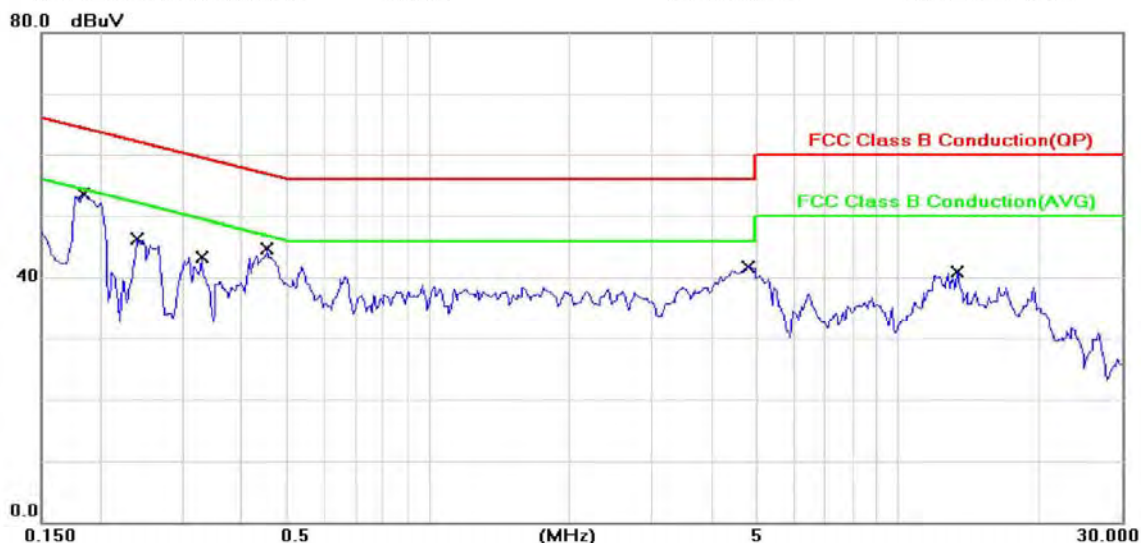
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| | | | | | |
|-----------------|----------------|-----------|------------|--------------|--------|
| Operation Mode: | Bluetooth Mode | | Test Date: | Apr.09, 2013 | |
| Temperature: | 26 °C | Humidity: | 60 % | Test By: | Marucs |

| | | |
|-----------------------------------|---------------------|--------------------|
| Site: ConductionRoom | Phase: N | Temperature: 26 °C |
| Limit: FCC Class B Conduction(QP) | Power: AC 120V/60Hz | Humidity: 60% |
| EUT: 桌上型平板電腦 (SmartDisplay) | Distance: | |
| M/N: CT2200 | Mode: | |
| Note: Operationmode | | |
| Adapter: CPA09-002A | | |

Conducted Emission

File :EF-2013-40001 Display_CT Data.#4 Date: 2013/4/9 Time : 下午 06:33:58



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measurement dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|-----------------------|----------------------|---------------------|---------------|------------|----------|---------|
| 1 | * | 0.1852 | 49.72 | 0.33 | 50.05 | 64.25 | -14.20 | QP | |
| 2 | | 0.1852 | 34.45 | 0.33 | 34.78 | 54.25 | -19.47 | AVG | |
| 3 | | 0.2398 | 46.04 | 0.32 | 46.36 | 62.10 | -15.74 | QP | |
| 4 | | 0.3297 | 42.96 | 0.34 | 43.30 | 59.46 | -16.16 | QP | |
| 5 | | 0.4547 | 40.15 | 0.34 | 40.49 | 56.79 | -16.30 | QP | |
| 6 | | 0.4547 | 26.11 | 0.34 | 26.45 | 46.79 | -20.34 | AVG | |
| 7 | | 4.7891 | 41.29 | 0.38 | 41.67 | 56.00 | -14.33 | QP | |
| 8 | | 13.3984 | 40.26 | 0.57 | 40.83 | 60.00 | -19.17 | QP | |

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7. PEAK OUTPUT POWER MEASUREMENT

7.1. Standard Applicable:

According to §15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, and all frequency hopping systems in the 5725-5850MHz band: 1Watt. For all other frequency hopping systems in the 2400 – 2483.5MHz band: 0.125 Watts.

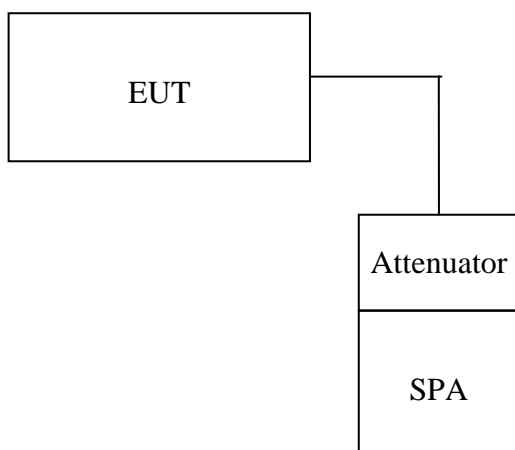
7.2. Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|---------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Sensor | Anritsu | ML2495A | 1005007 | 02/08/2012 | 02/07/2014 |
| Power Meter | Anritsu | MA2411B | 917032 | 02/08/2012 | 02/07/2014 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 04/15/2013 | 04/14/2014 |
| Spectrum Analyzer | Agilent | E4440A | MY45304525 | 03/15/2013 | 03/14/2014 |
| DC Block | Mini-Circuits | BLK-18-S+ | 1 | 02/28/2013 | 02/27/2014 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | 01/05/2013 | 01/04/2014 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 002 | 02/28/2013 | 02/27/2014 |
| Splitter | Agilent | 11636B | N/A | 02/28/2013 | 02/27/2014 |

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7.3. Test Set-up:



7.4. Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max peak function, RBW> 20dB bandwidth, VBW>RBW)
3. Record the max. reading.
4. Repeat above procedures until all frequency measured were complete.

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7.5. Measurement Result:

BDR mode (GFSK):

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 2402.00 | 3.45 | 3.45 | 0.00221 | 1 |
| 2441.00 | 3.01 | 3.01 | 0.00200 | 1 |
| 2480.00 | 2.98 | 2.98 | 0.00199 | 1 |

EDR mode ($\pi/4$ DQPSK):

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 2402.00 | 3.77 | 3.77 | 0.00238 | 0.125 |
| 2441.00 | 3.43 | 3.43 | 0.00220 | 0.125 |
| 2480.00 | 3.53 | 3.53 | 0.00225 | 0.125 |

EDR mode (8DPSK):

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 2402.00 | 4.31 | 4.31 | 0.00270 | 0.125 |
| 2441.00 | 4.02 | 4.02 | 0.00252 | 0.125 |
| 2480.00 | 4.16 | 4.16 | 0.00261 | 0.125 |

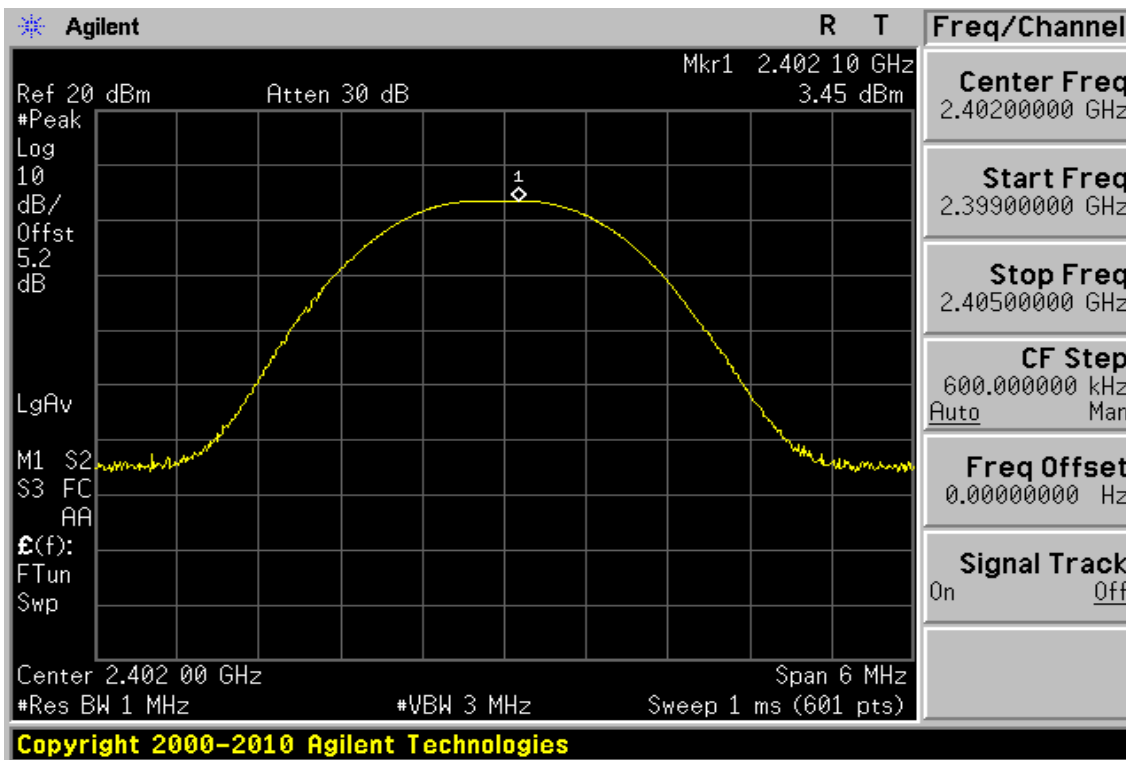
Offset: 5.2dB

Note: Refer to next page for plots.

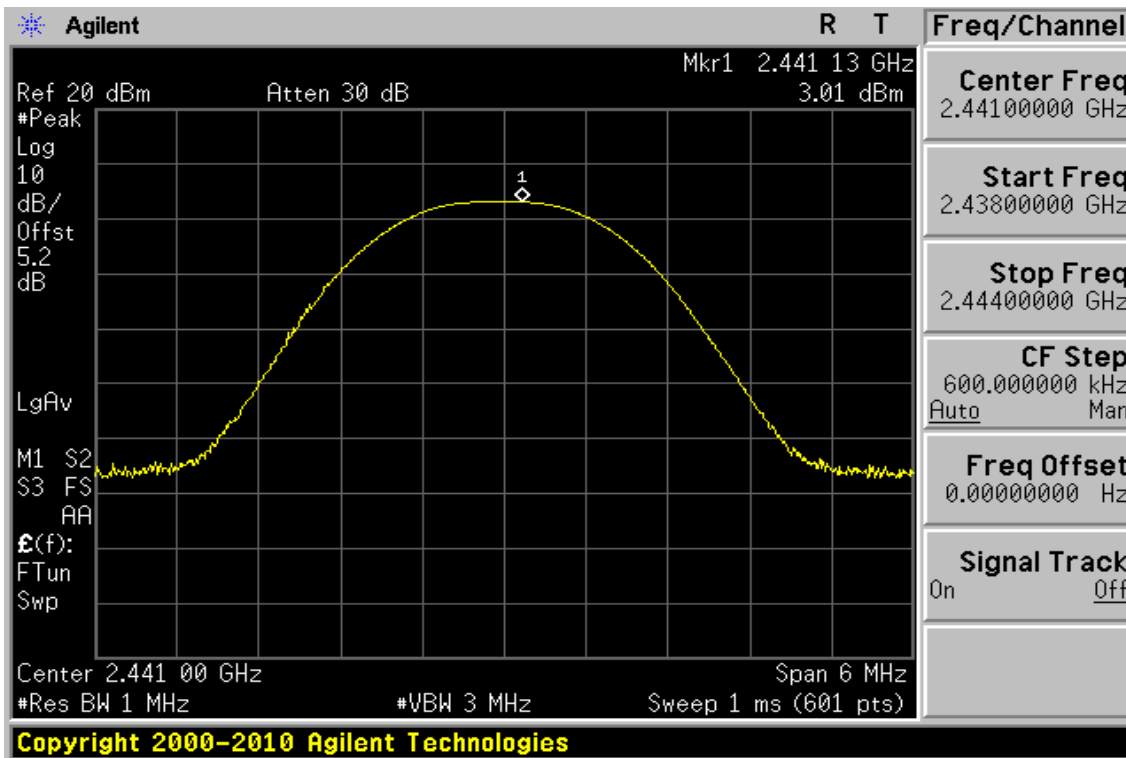
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Peak Power Output Data Plot (CH Low) (BDR mode GFSK)



Peak Power Output Data Plot (CH Mid) (BDR mode GFSK)



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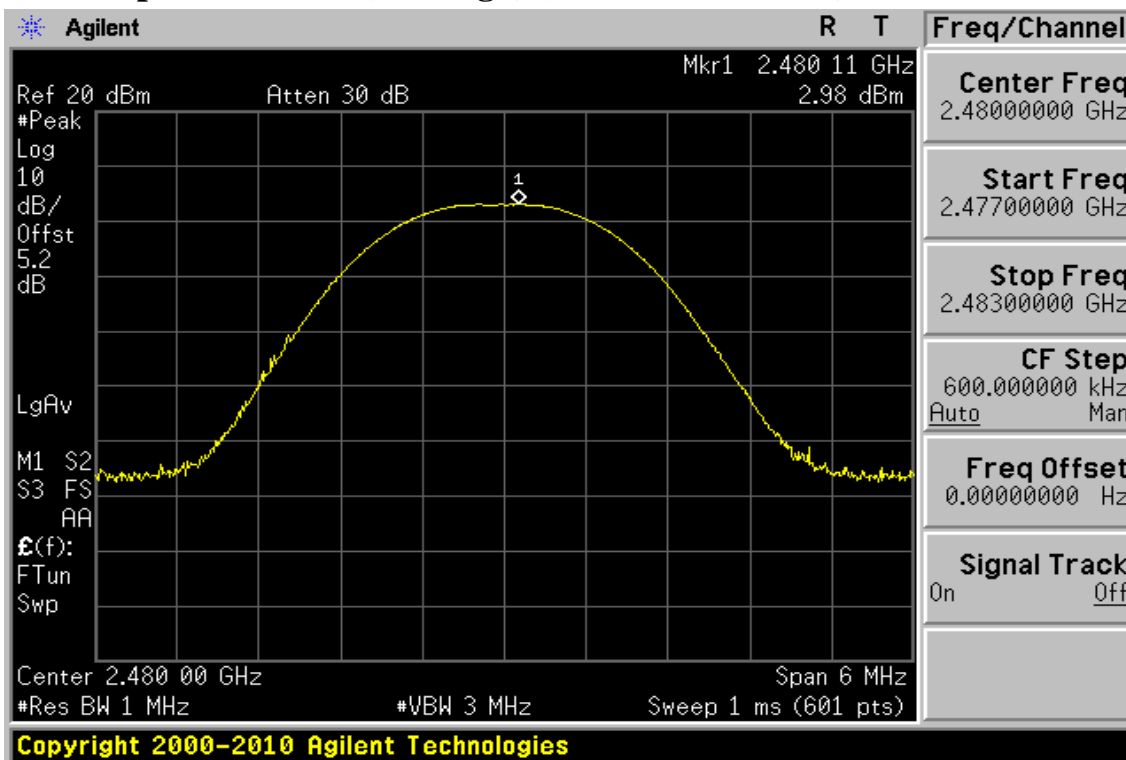
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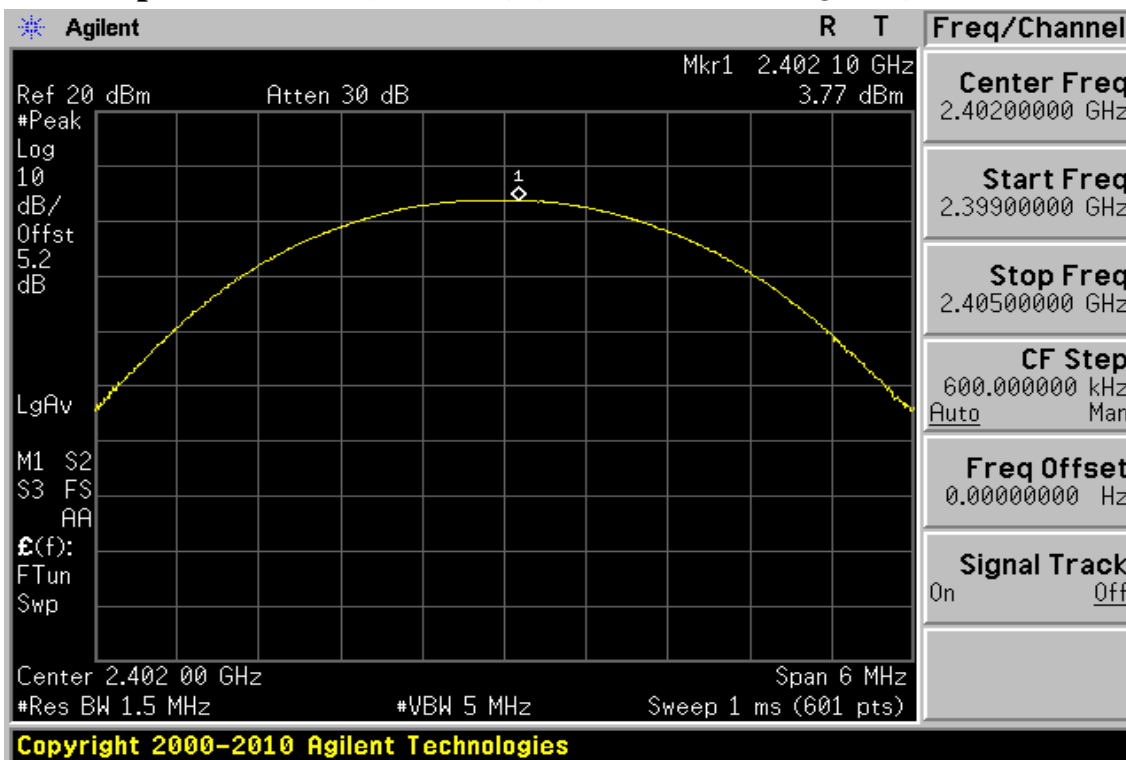
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Peak Power Output Data Plot (CH High) (BDR mode GFSK)



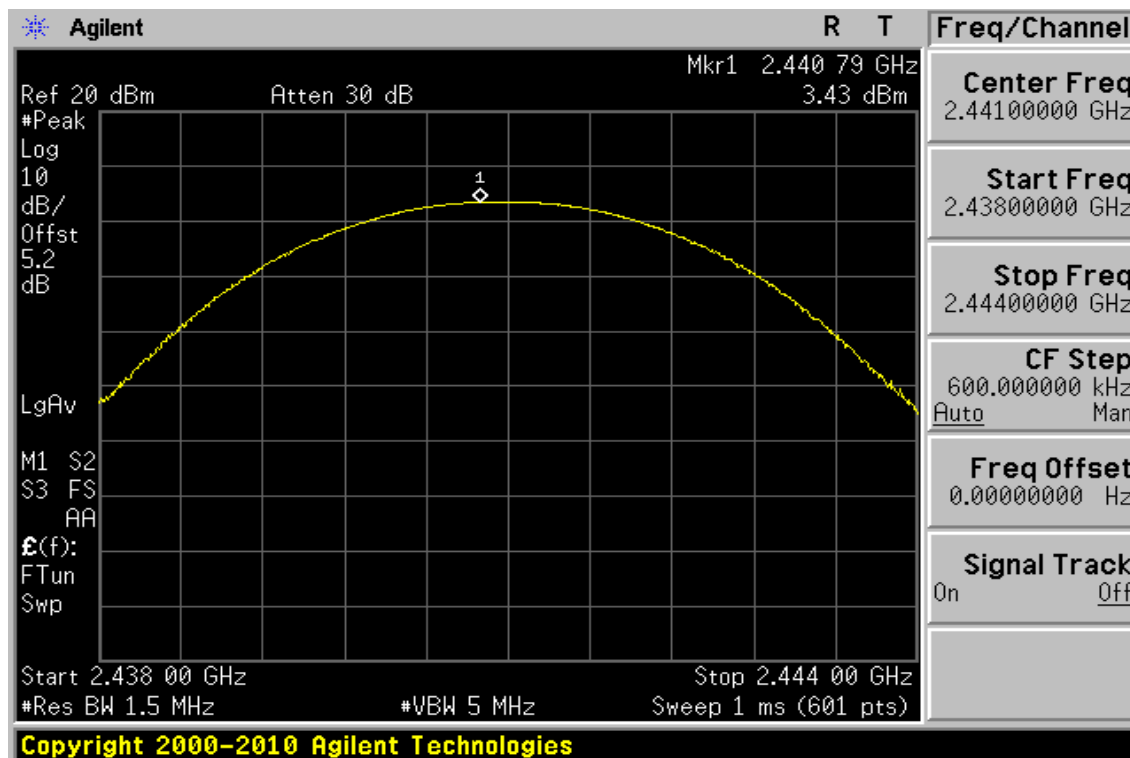
Peak Power Output Data Plot (CH Low) (EDR mode $\pi/4$ DQPSK)



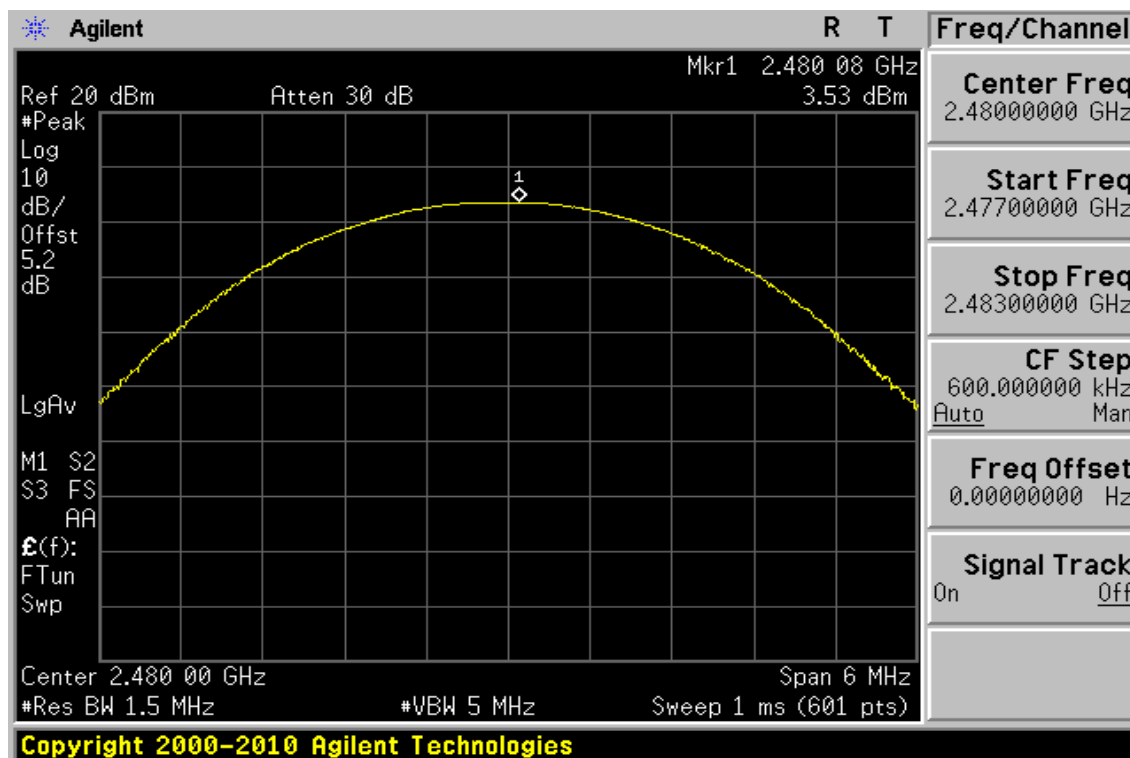
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Peak Power Output Data Plot (CH Mid) (EDR mode $\pi/4$ DQPSK)



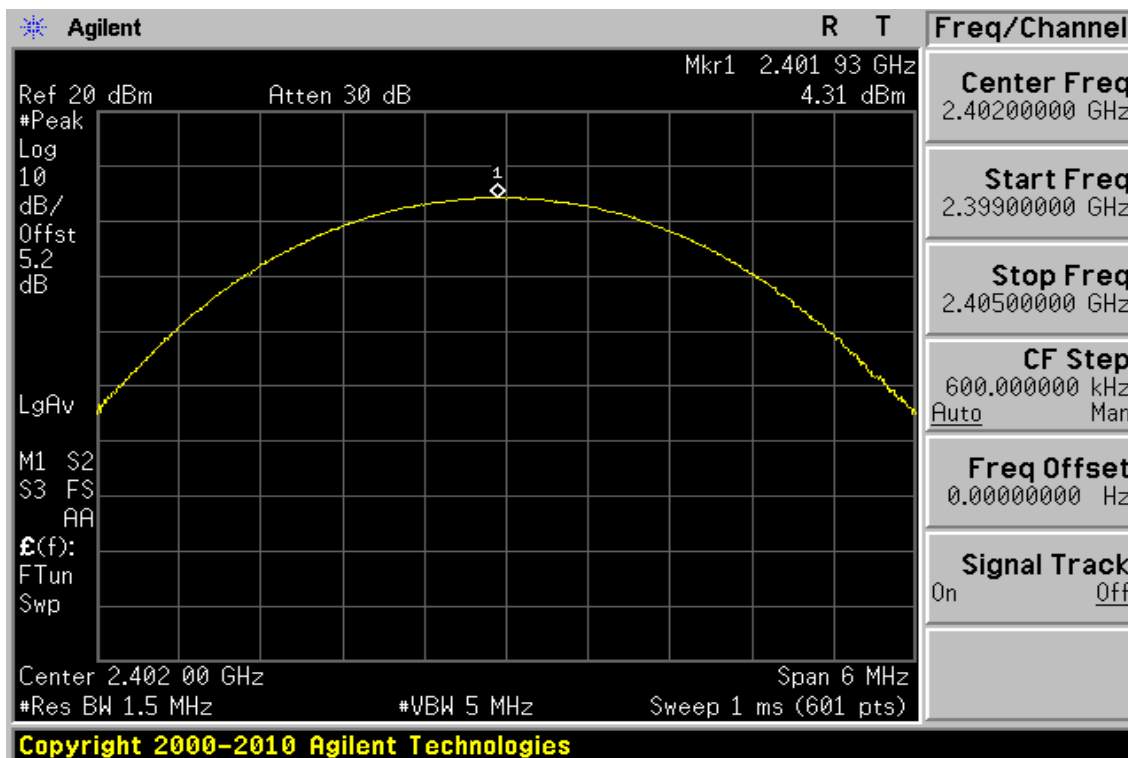
Peak Power Output Data Plot (CH High) (EDR mode $\pi/4$ DQPSK)



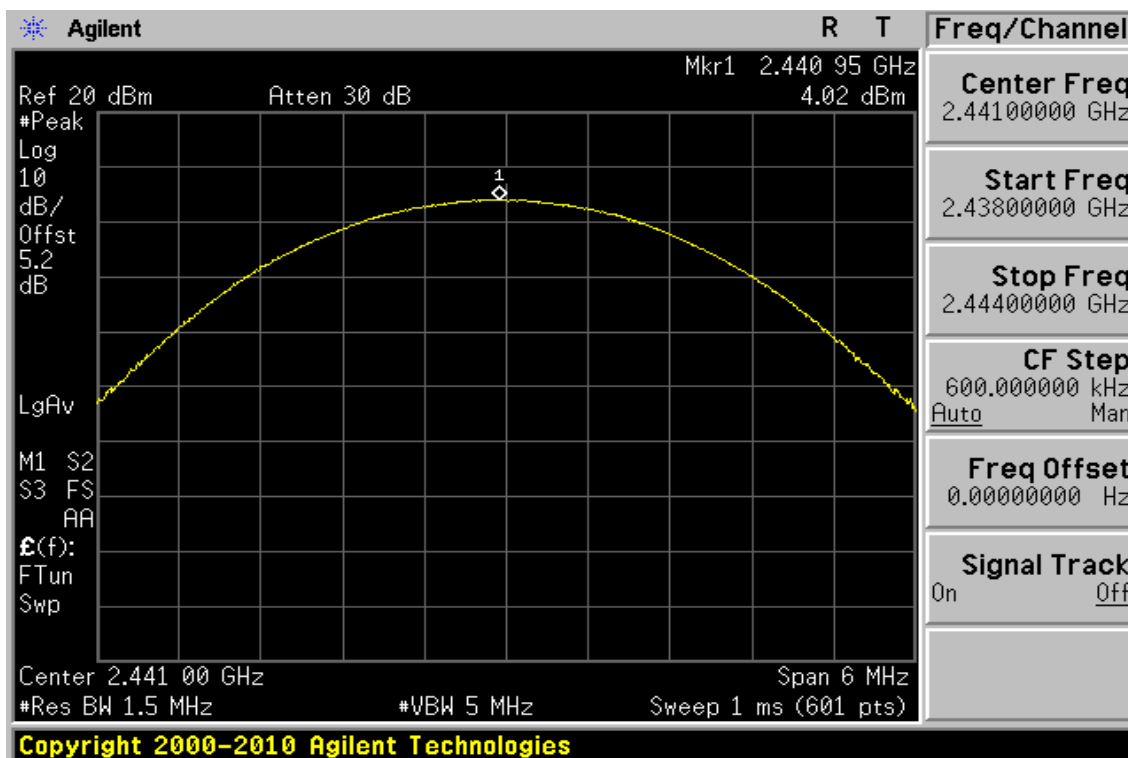
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Peak Power Output Data Plot (CH Low) (EDR mode 8DPSK)



Peak Power Output Data Plot (CH Mid) (EDR mode 8DPSK)



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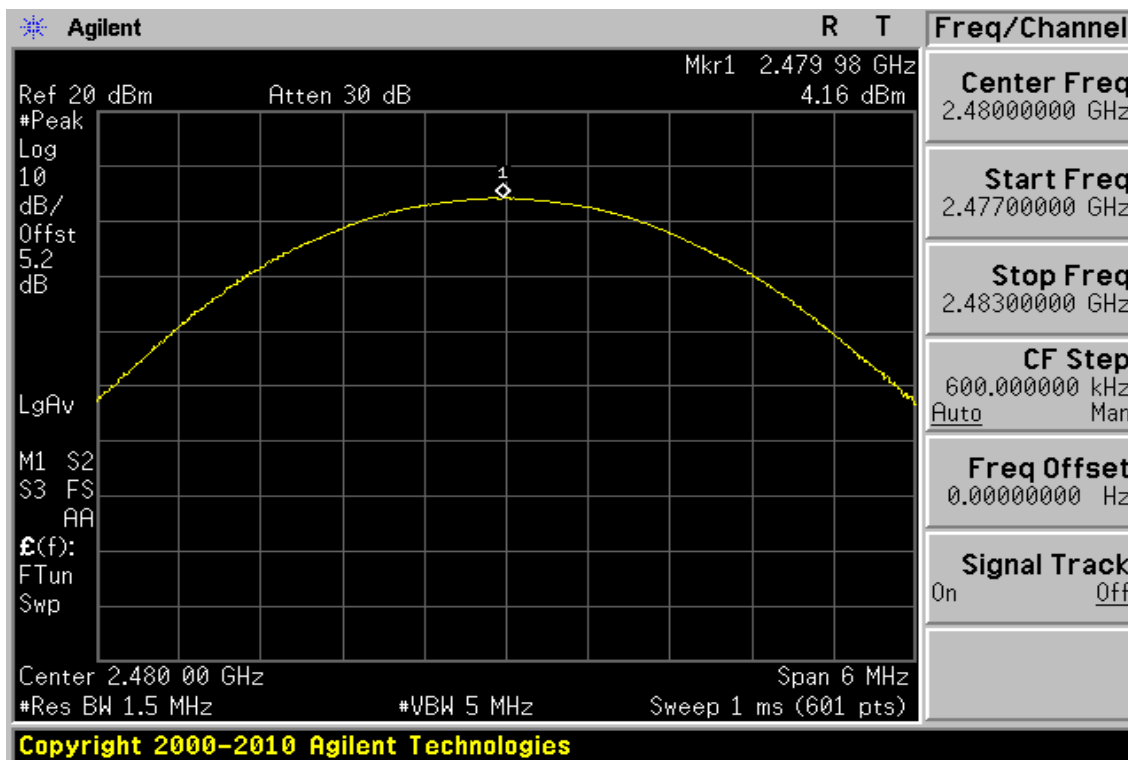
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Peak Power Output Data Plot (CH High) (EDR mode 8DPSK)



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8. 100KHz BANDWIDTH OF BAND EDGES MEASUREMENT

8.1. Standard Applicable:

According to §15.247(d), in any 100 KHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100KHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

8.2. Measurement Equipment Used:

8.2.1. Conducted Emission at antenna port:

Refer to section 7.2 for details.

8.2.2. Radiated emission:

| 966 Chamber | | | | | |
|------------------------|-----------------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESC17 | 100759 | 05/20/2011 | 05/19/2013 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 04/15/2013 | 04/14/2014 |
| EXA Spectrum Analyzer | Agilent | N9010A | MY50420195 | 02/06/2013 | 02/07/2014 |
| Spectrum Analyzer | R&S | FSV-30 | 101398 | 10/18/2011 | 10/17/2013 |
| Bilog Antenna | SCHWAZBECK | VULB9168 | 378 | 01/10/2012 | 01/09/2014 |
| Horn antenna | ETS.LINDGREN | 3117 | 123995 | 05/19/2011 | 05/18/2013 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 185 | 07/11/2011 | 07/10/2013 |
| Pre-Amplifier | Agilent | 8447D | 2944A07676 | 01/04/2013 | 01/03/2014 |
| Pre-Amplifier | EMC Instruments Corp. | EMC0126530 | 980038 | 01/04/2013 | 01/03/2014 |
| Filter 2400-2483.5 MHz | EWT | EWT-14-0166 | M2 | 02/28/2013 | 02/28/2014 |
| Attenuator | Mini-Circuit | BW-S10W2+ | 004 | 02/28/2013 | 02/27/2014 |
| 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_Rx | 9 | 01/04/2013 | 01/03/2014 |
| 3m Site NSA | SGS | 966 chamber | N/A | 07/15/2012 | 07/14/2013 |

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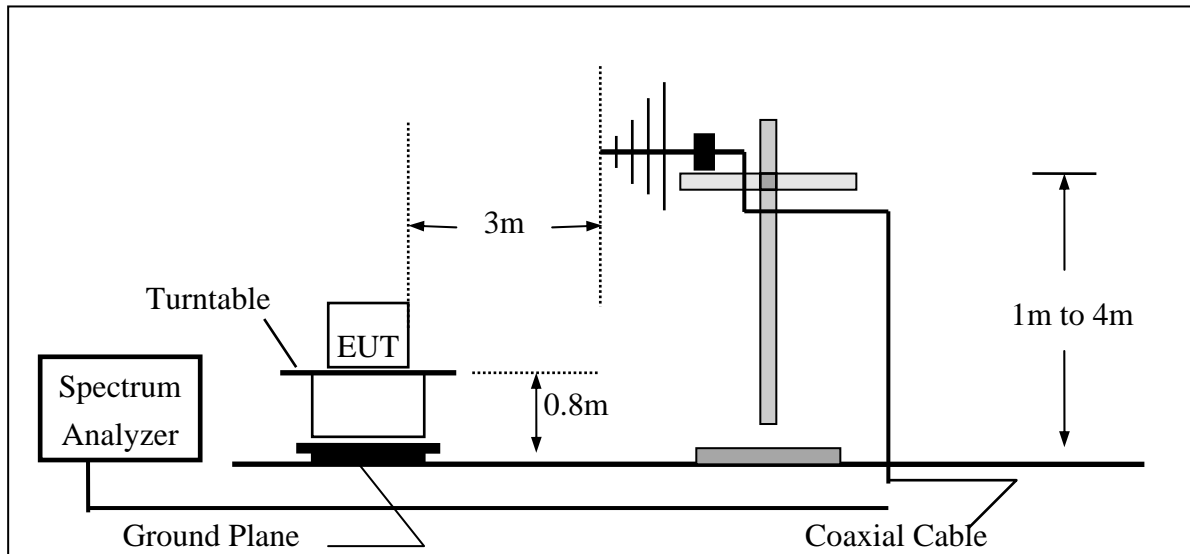
8.3. Test SET-UP:

8.3.1. Conducted Emission at antenna port:

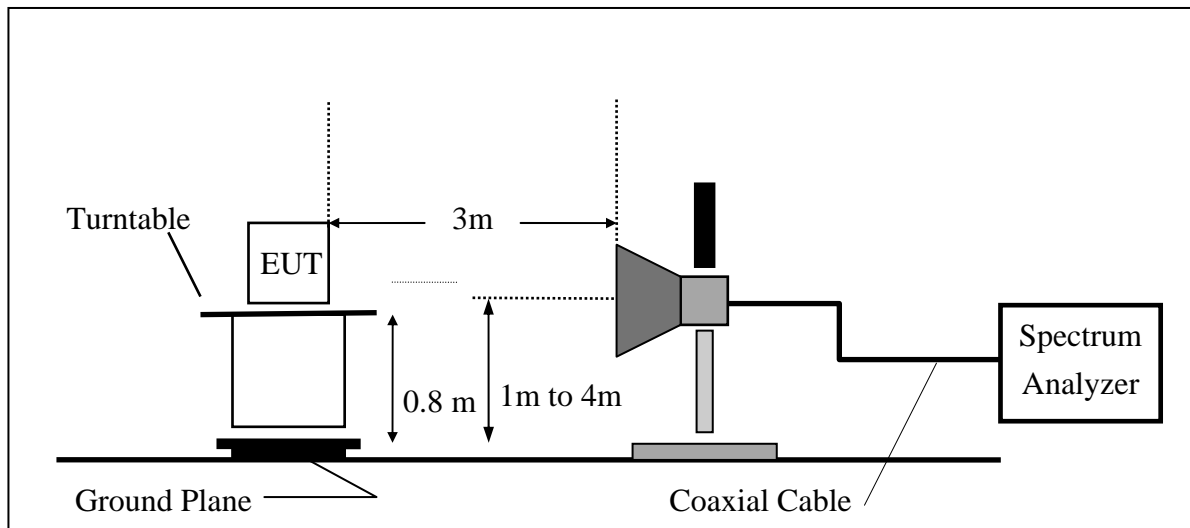
Refer to section 7.3 for details.

8.3.2. Radiated emission:

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



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



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8.4. Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW, VBW=100KHz, Span=25MHz, Sweep = auto
5. Mark Peak, 2.390GHz and 2.4835GHz and record the max. level.
6. Repeat above procedures until all frequency measured were complete.

8.5. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

| | | |
|-------|------------------------|--|
| Where | FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| | RA = Reading Amplitude | AG = Amplifier Gain |
| | AF = Antenna Factor | |

8.6. Measurement Result:

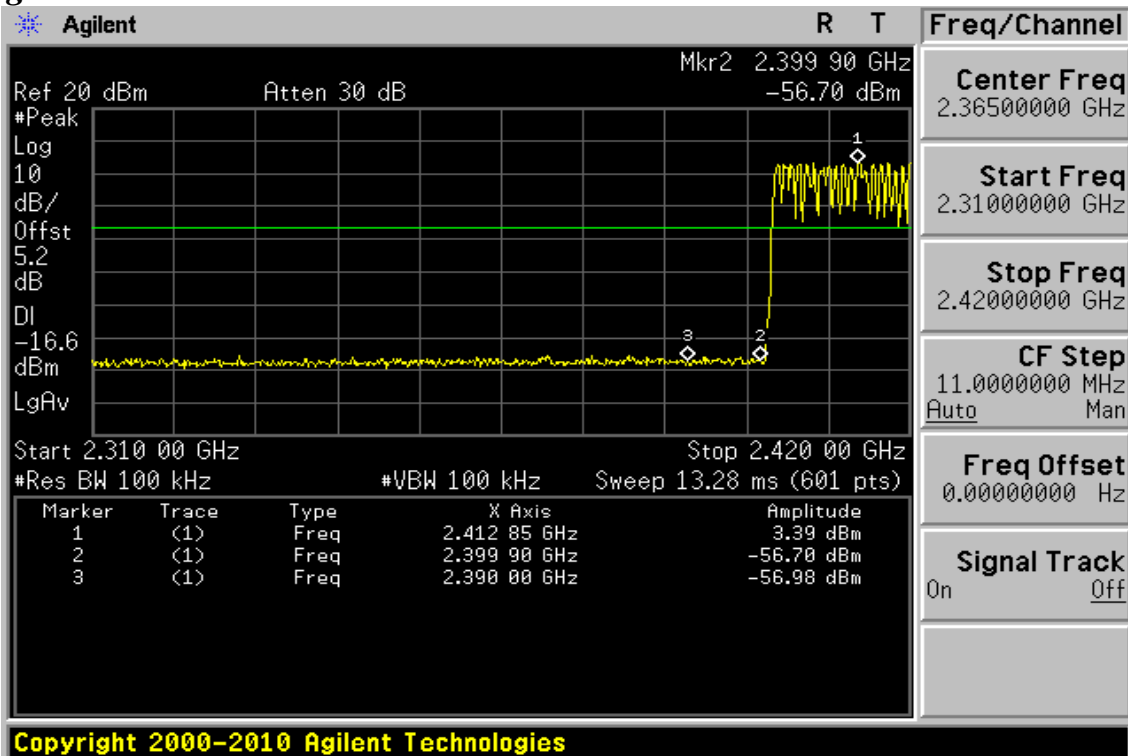
Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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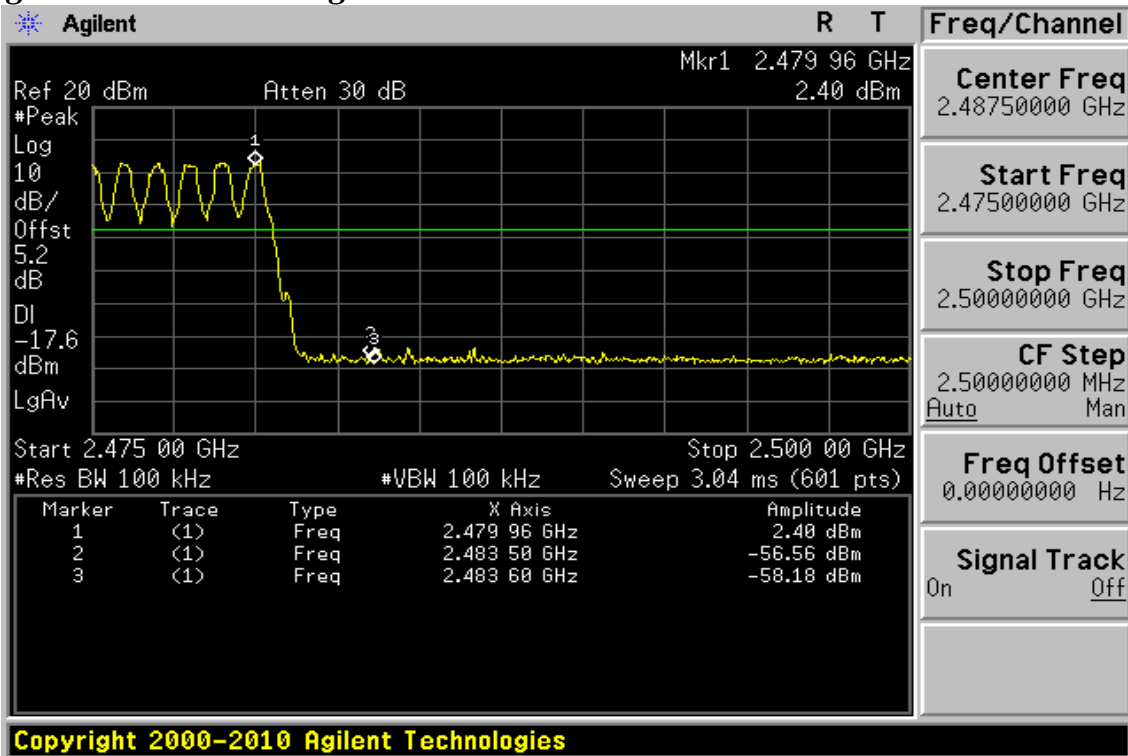
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BDR Mode

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission: (BDR mode)

| | | | |
|-----------------------|---------------|--------------------------|-------------------|
| Operation Band | :BDR | Test Date | :2013-04-10 |
| Fundamental Frequency | :2402 MHz | Temp./Humi. | :27 deg_C / 66 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Nick |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :VERTICAL |

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2390.00 | E | Average | 30.52 | 2.12 | 32.64 | 54.00 | -21.36 |
| 2390.00 | E | Peak | 43.28 | 2.12 | 45.40 | 74.00 | -28.60 |

| | | | |
|-----------------------|---------------|--------------------------|-------------------|
| Operation Band | :BDR | Test Date | :2013-04-10 |
| Fundamental Frequency | :2402 MHz | Temp./Humi. | :27 deg_C / 66 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Nick |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2390.00 | E | Average | 29.85 | 2.74 | 32.59 | 54.00 | -21.41 |
| 2390.00 | E | Peak | 45.15 | 2.74 | 47.89 | 74.00 | -26.11 |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

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| | | | |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band | :BDR | Test Date | :2013-04-10 |
| Fundamental Frequency | :2480 MHz | Temp./Humi. | :27 deg_C / 66 RH |
| Operation Mode | :Bandedge HIGH | Engineer | :Nick |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :VERTICAL |

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.50 | E | Average | 29.63 | 2.53 | 32.16 | 54.00 | -21.84 |
| 2483.50 | E | Peak | 45.44 | 2.53 | 47.97 | 74.00 | -26.03 |

| | | | |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band | :BDR | Test Date | :2013-04-10 |
| Fundamental Frequency | :2480 MHz | Temp./Humi. | :27 deg_C / 66 RH |
| Operation Mode | :Bandedge HIGH | Engineer | :Nick |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.50 | E | Average | 29.44 | 3.56 | 33.00 | 54.00 | -21.00 |
| 2483.50 | E | Peak | 44.93 | 3.56 | 48.49 | 74.00 | -25.51 |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

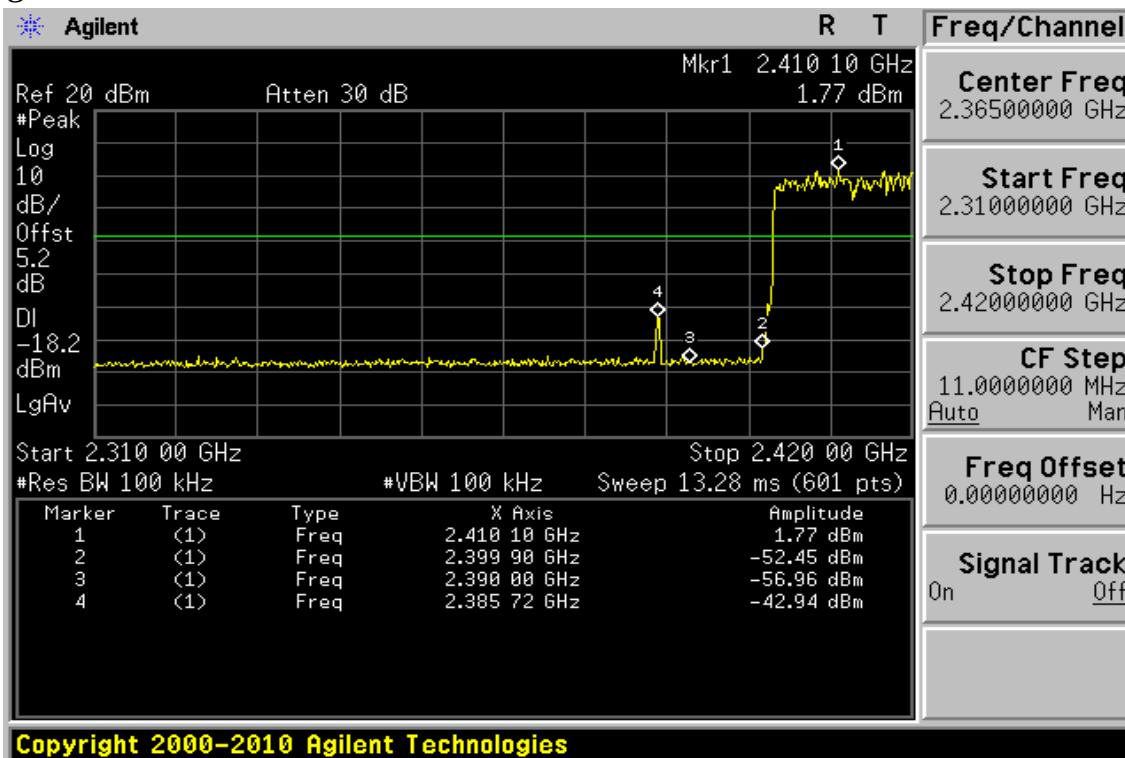
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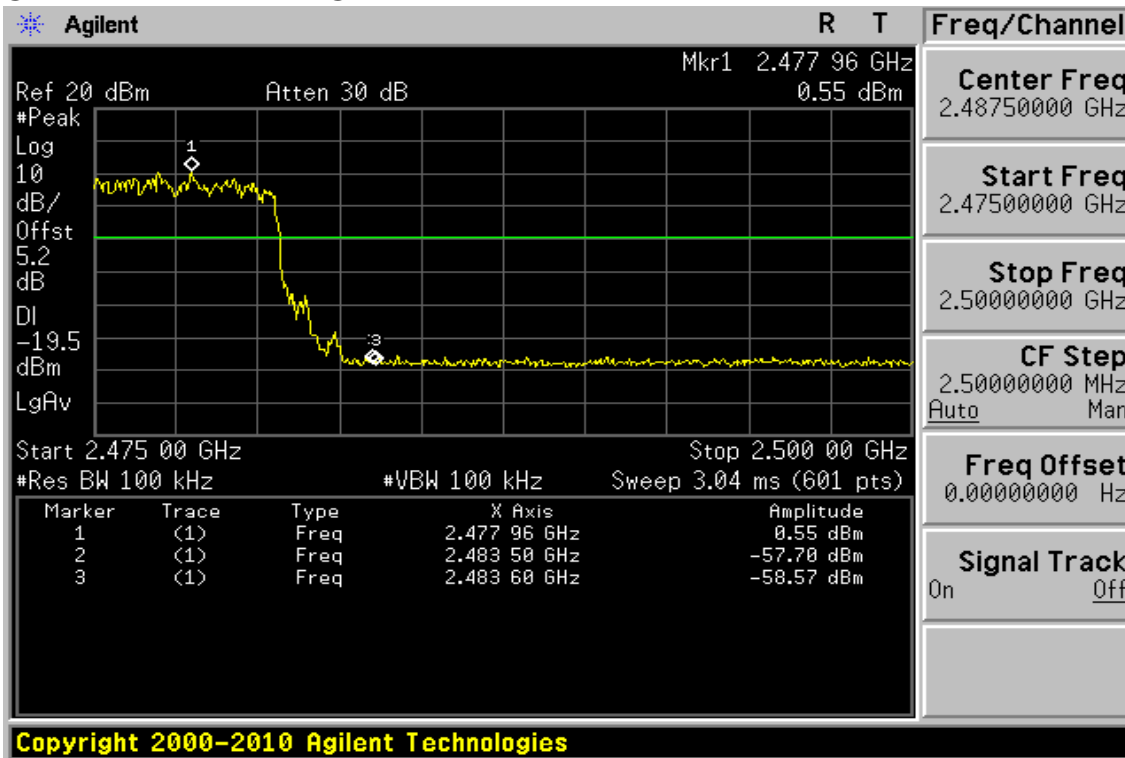
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EDR Mode

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission: (EDR mode)

| | | | |
|-----------------------|---------------|--------------------------|-------------------|
| Operation Band | :EDR | Test Date | :2013-04-10 |
| Fundamental Frequency | :2402 MHz | Temp./Humi. | :27 deg_C / 66 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Nick |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :VERTICAL |

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2390.00 | E | Average | 29.99 | 2.12 | 32.11 | 54.00 | -21.89 |
| 2390.00 | E | Peak | 44.51 | 2.12 | 46.63 | 74.00 | -27.37 |

| | | | |
|-----------------------|---------------|--------------------------|-------------------|
| Operation Band | :EDR | Test Date | :2013-04-10 |
| Fundamental Frequency | :2402 MHz | Temp./Humi. | :27 deg_C / 66 RH |
| Operation Mode | :Bandedge LOW | Engineer | :Nick |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2390.00 | E | Average | 32.32 | 2.74 | 35.06 | 54.00 | -18.94 |
| 2390.00 | E | Peak | 48.27 | 2.74 | 51.01 | 74.00 | -22.99 |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

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| | | | |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band | :EDR | Test Date | :2013-04-10 |
| Fundamental Frequency | :2480 MHz | Temp./Humi. | :27 deg_C / 66 RH |
| Operation Mode | :Bandedge HIGH | Engineer | :Nick |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :VERTICAL |

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.50 | E | Average | 29.77 | 2.53 | 32.30 | 54.00 | -21.70 |
| 2483.50 | E | Peak | 51.19 | 2.53 | 53.72 | 74.00 | -20.28 |

| | | | |
|-----------------------|----------------|--------------------------|-------------------|
| Operation Band | :EDR | Test Date | :2013-04-10 |
| Fundamental Frequency | :2480 MHz | Temp./Humi. | :27 deg_C / 66 RH |
| Operation Mode | :Bandedge HIGH | Engineer | :Nick |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.50 | E | Average | 29.71 | 3.56 | 33.27 | 54.00 | -20.73 |
| 2483.50 | E | Peak | 51.50 | 3.56 | 55.06 | 74.00 | -18.94 |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

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9. SPURIOUS EMISSION TEST

9.1. Standard Applicable:

According to §15.247(c), all other emissions outside these bands shall not exceed the general radiated emission limits specified in §15.209(a). And according to §15.33(a)(1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

9.2. Measurement Equipment Used:

9.2.1. Conducted Emission at antenna port:

Refer to section 7.2 for details.

9.2.2. Radiated emission:

Refer to section 8.2.2 for details.

9.3. Test SET-UP:

9.3.1. Conducted Emission at antenna port:

Refer to section 7.3 for details.

9.3.2. Radiated emission:

Refer to section 8.3.2 for details.

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9.4. Measurement Procedure:

Radiated Emission:

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. When 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.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. Repeat above procedures until all frequency measured were complete.

Conducted Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 100K & VBW = 300K on Spectrum.
3. Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 3G, 3G to 8G, 8G to 13G, 13G to 18G and 18G to 26.5GHz
4. Via Software, combine 5 spans of frequency range into one plot

9.5. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

| | | |
|-------|------------------------|--|
| Where | FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| | RA = Reading Amplitude | AG = Amplifier Gain |
| | AF = Antenna Factor | |

9.6. Measurement Result:

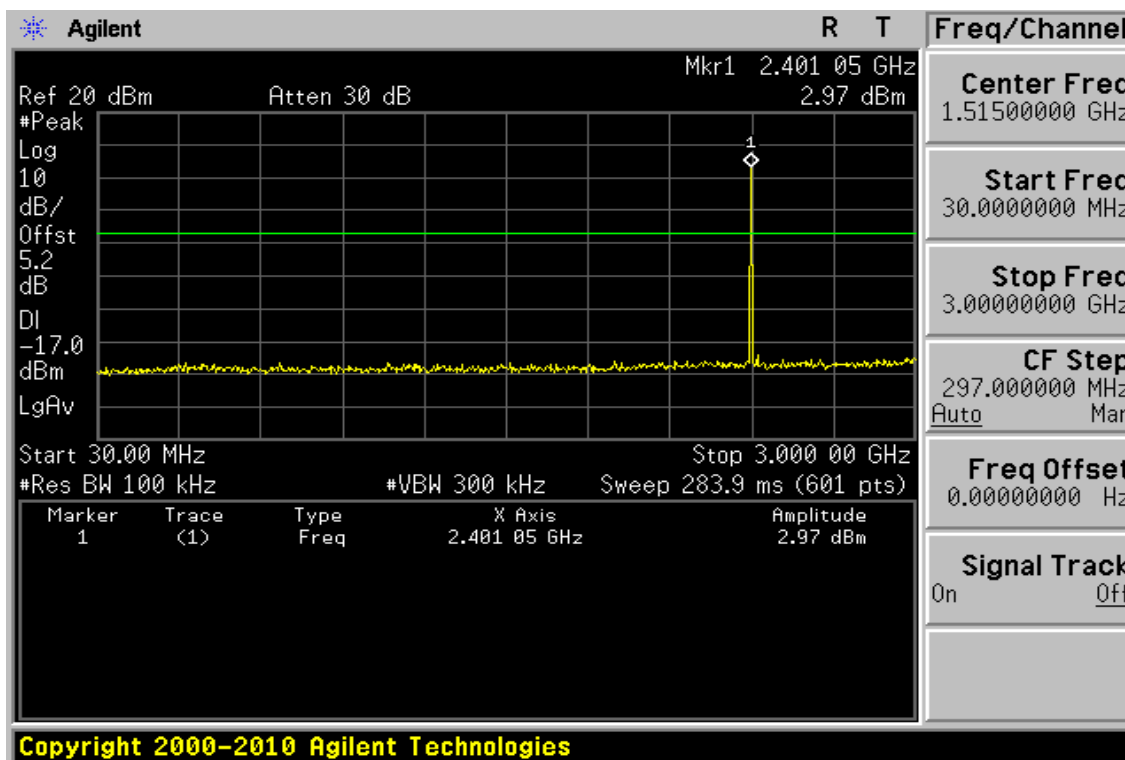
Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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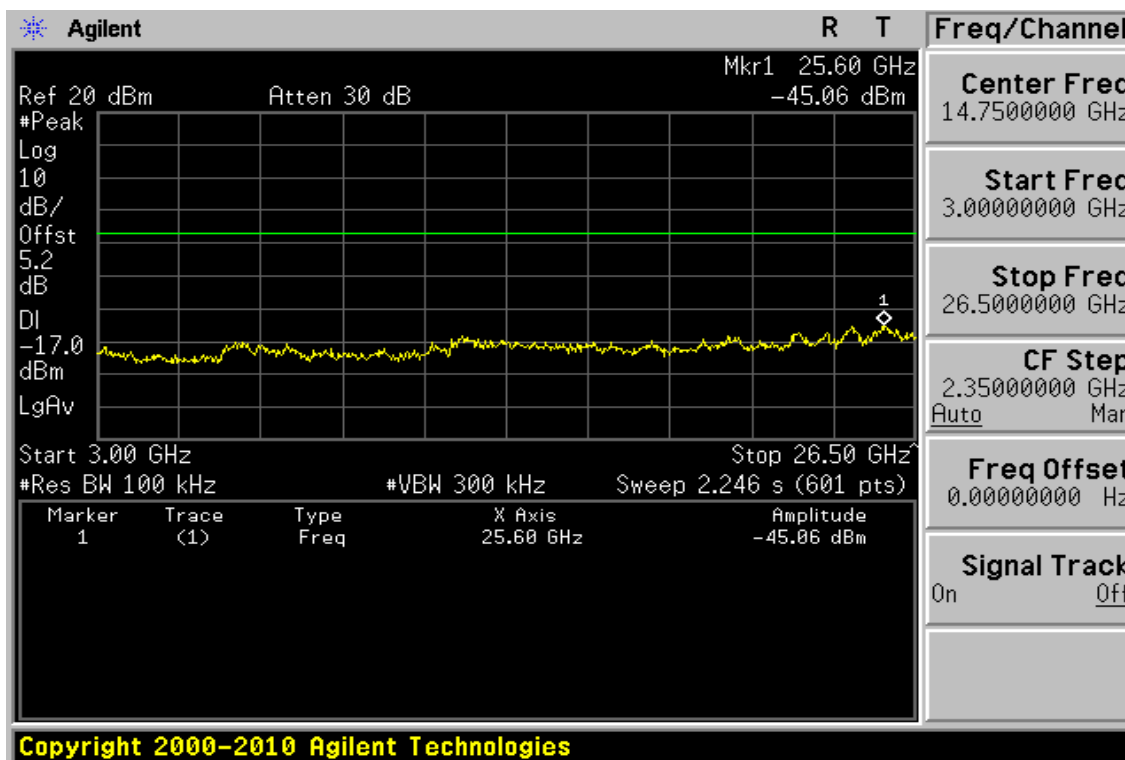
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Conducted Spurious Emission Measurement Result (BDR mode)

Ch Low 30MHz – 3GHz



Ch Low 3GHz – 26.5GHz

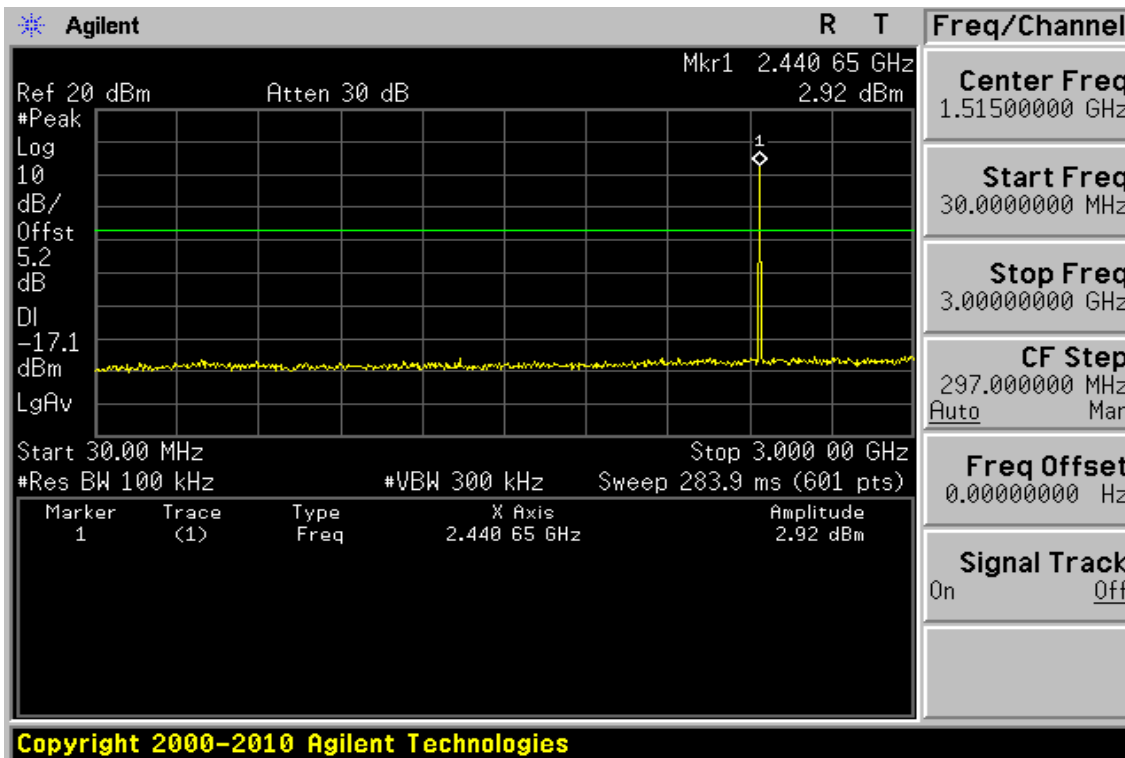


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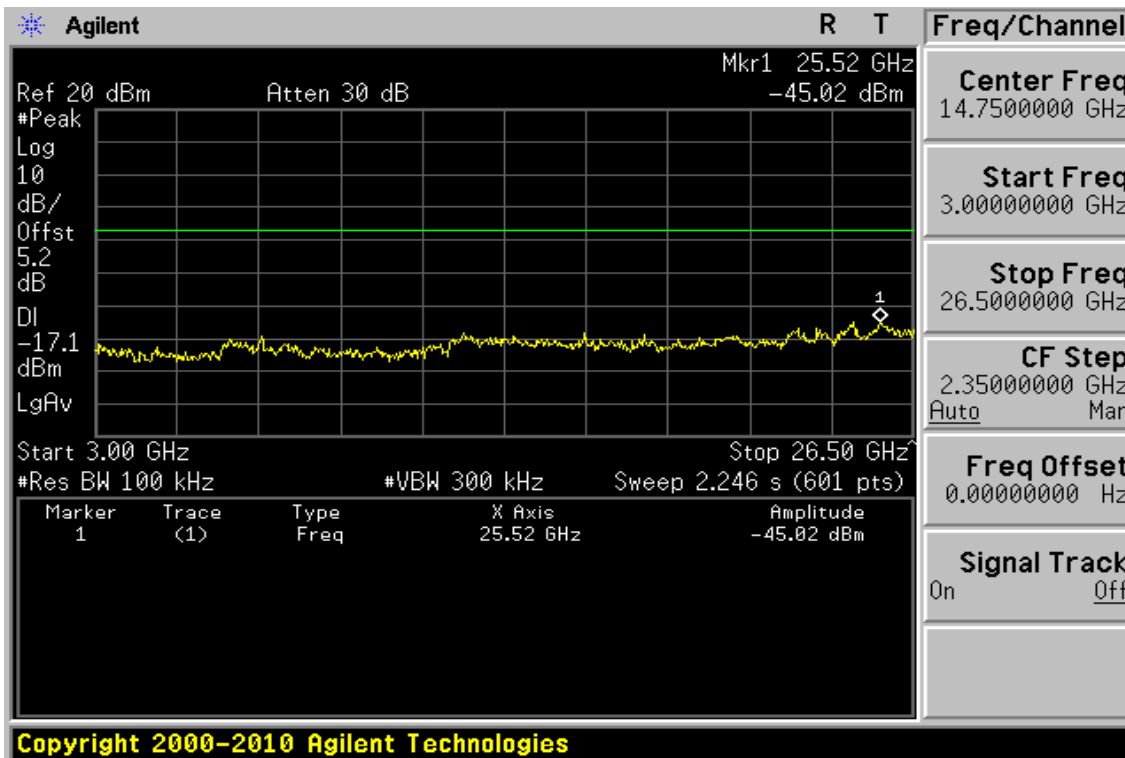
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Ch Mid 30MHz – 3GHz



Ch Mid 3GHz – 26.5GHz



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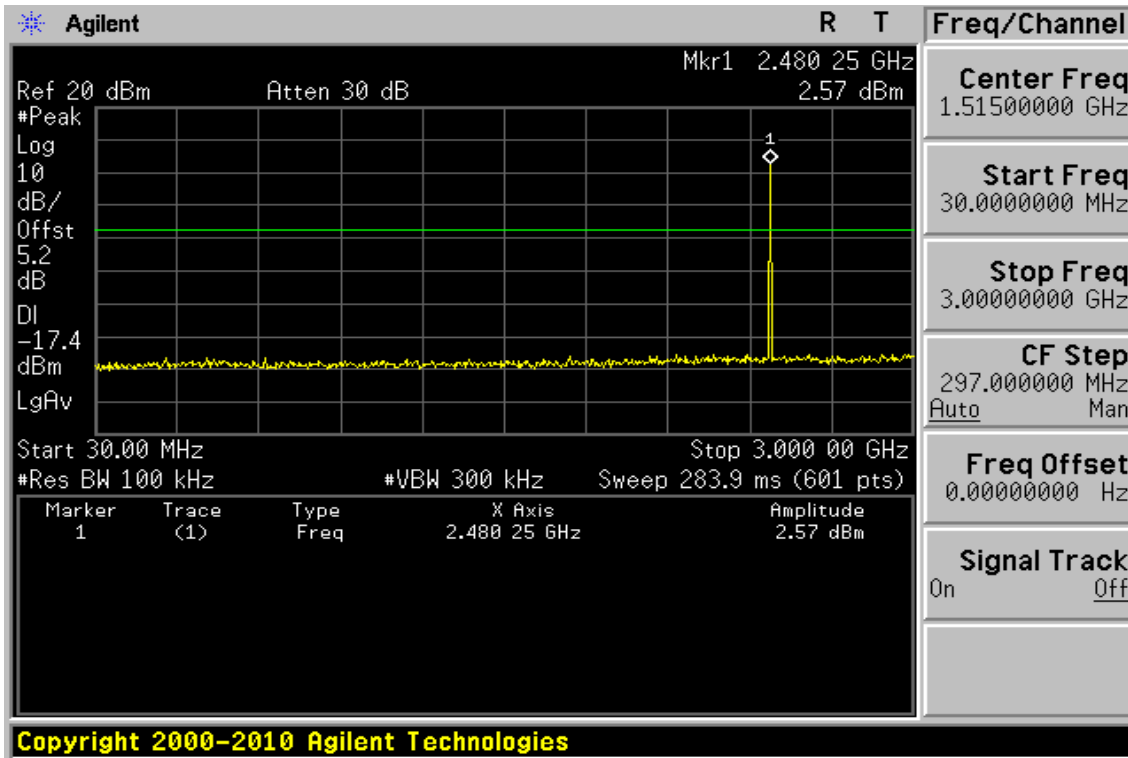
t (886-2) 2299-3279

f (886-2) 2298-0488

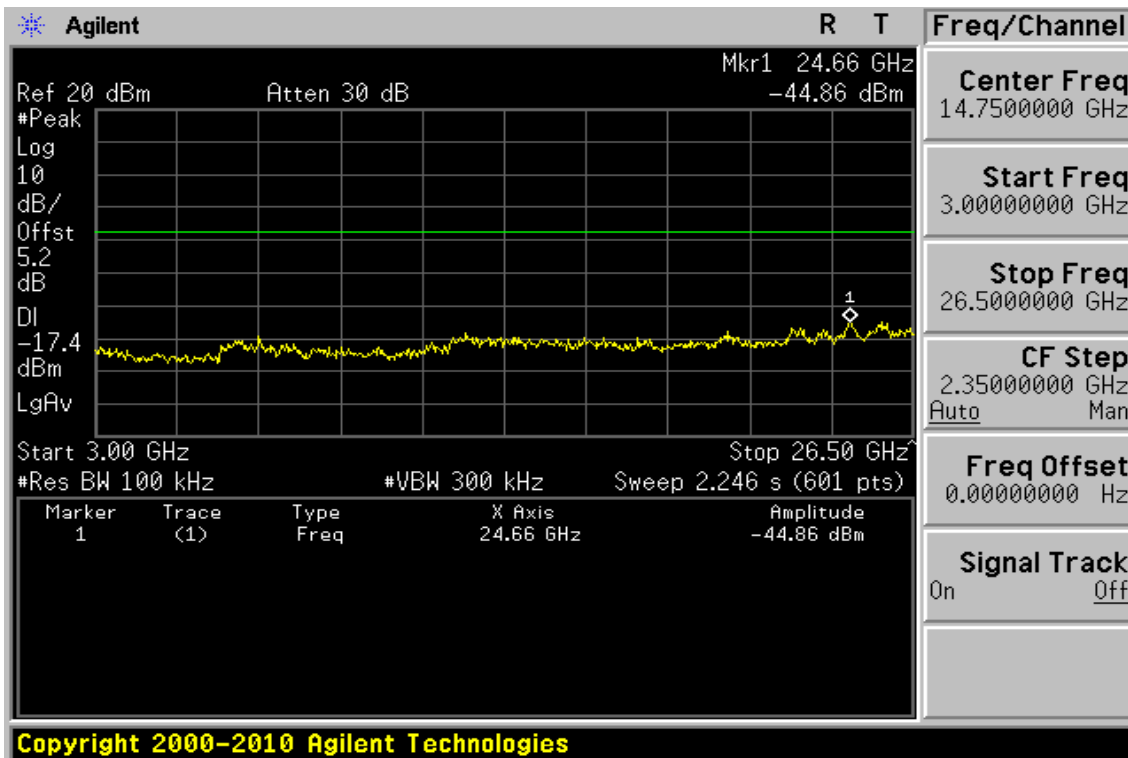
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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz

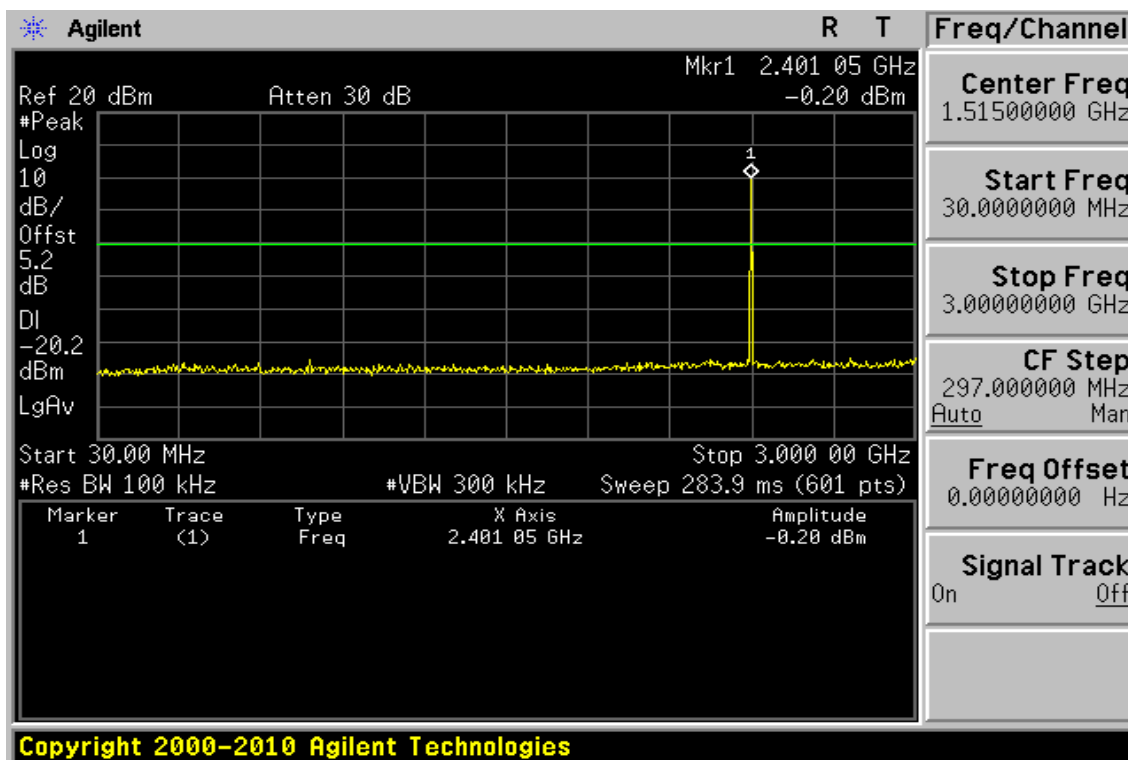


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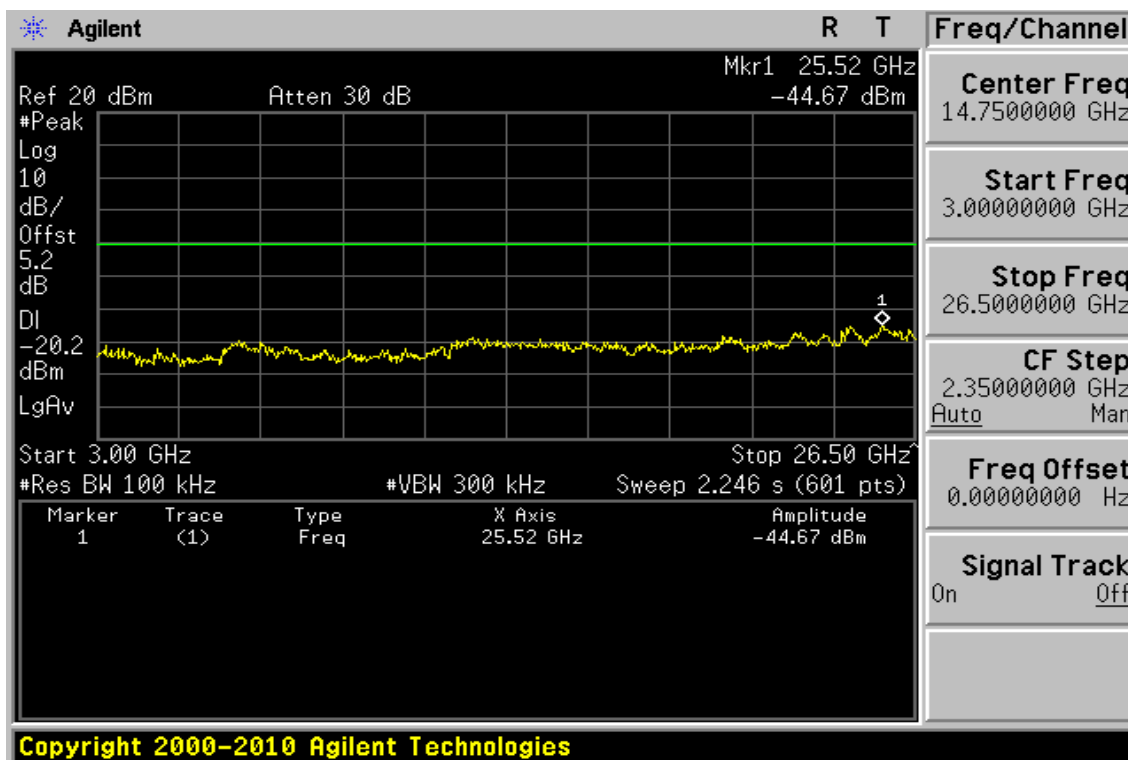
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Conducted Spurious Emission Measurement Result (EDR mode)
Ch Low 30MHz – 3GHz



Ch Low 3GHz – 26.5GHz

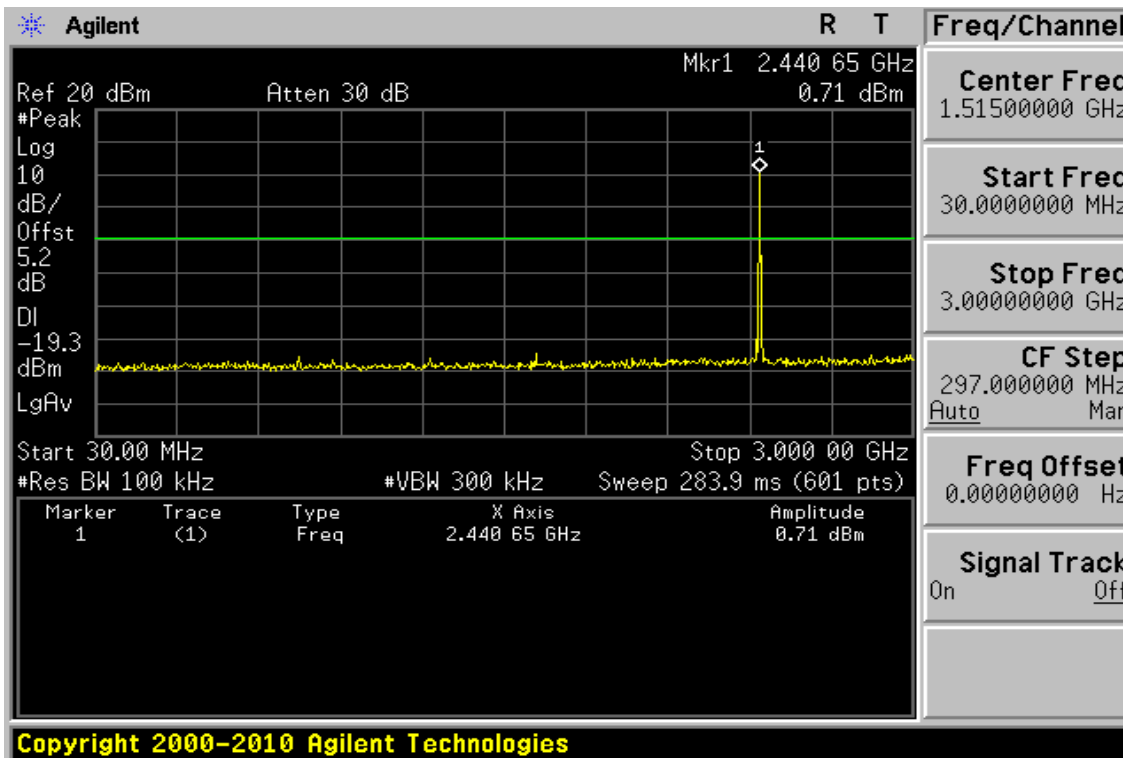


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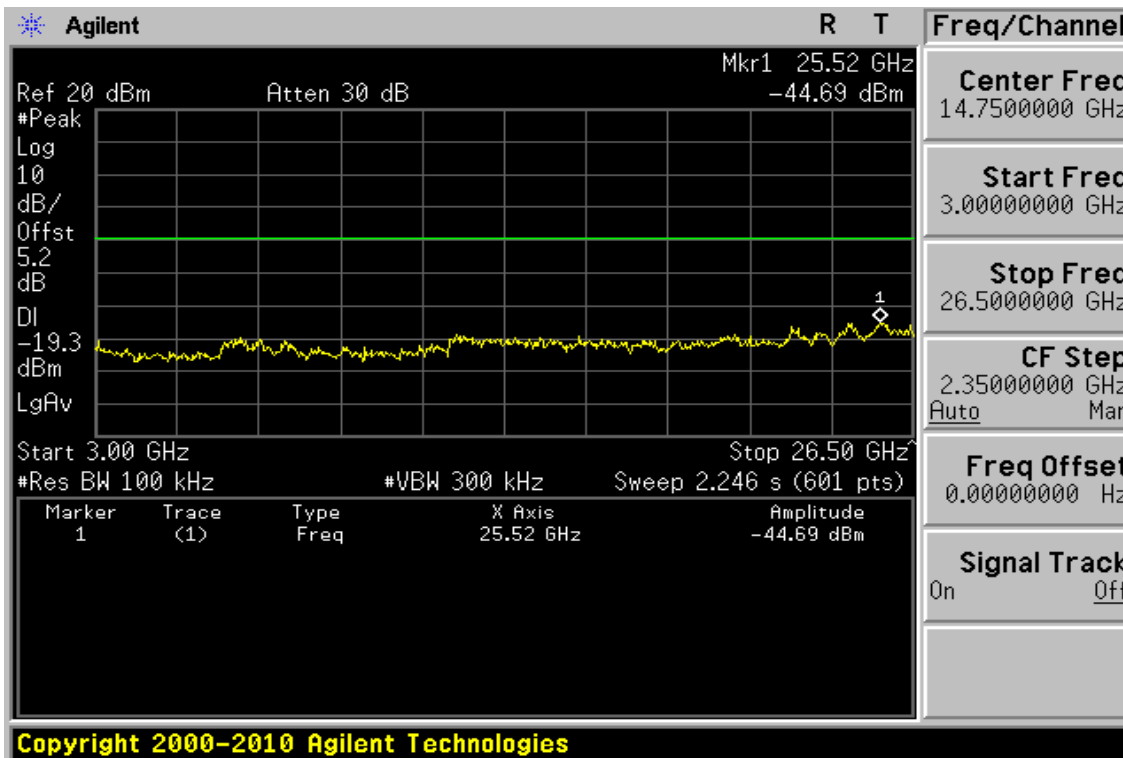
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Ch Mid 30MHz – 3GHz



Ch Mid 3GHz – 26.5GHz

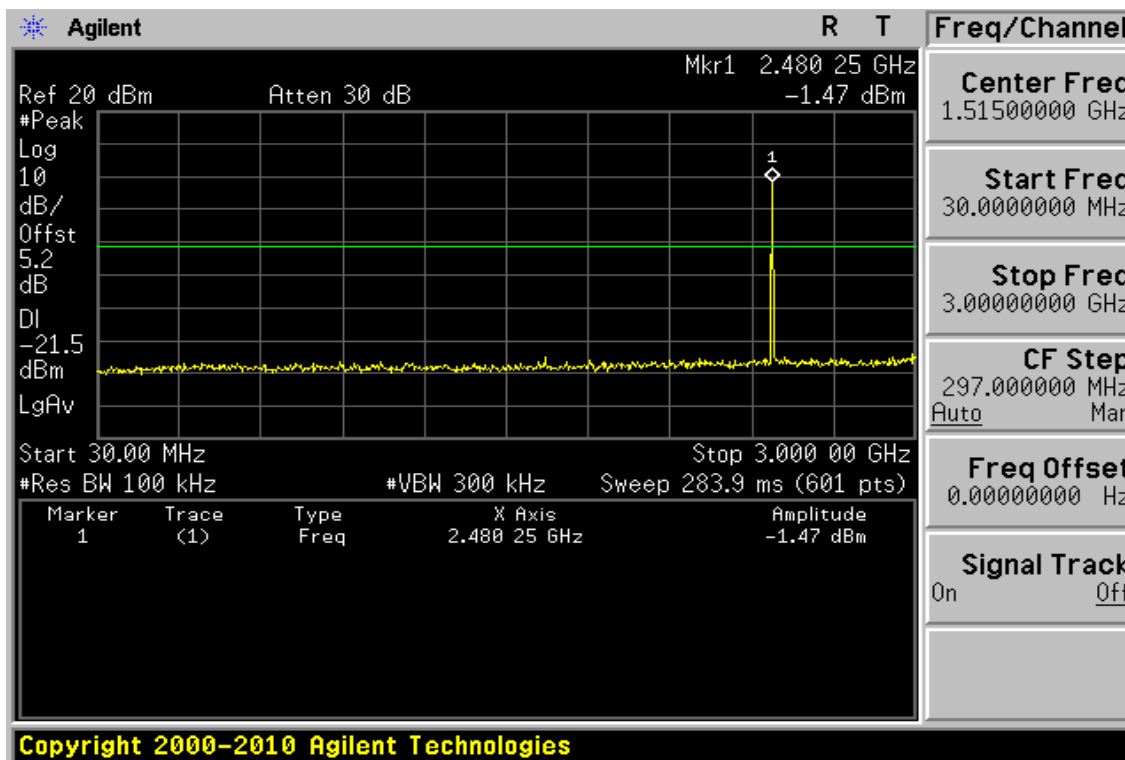


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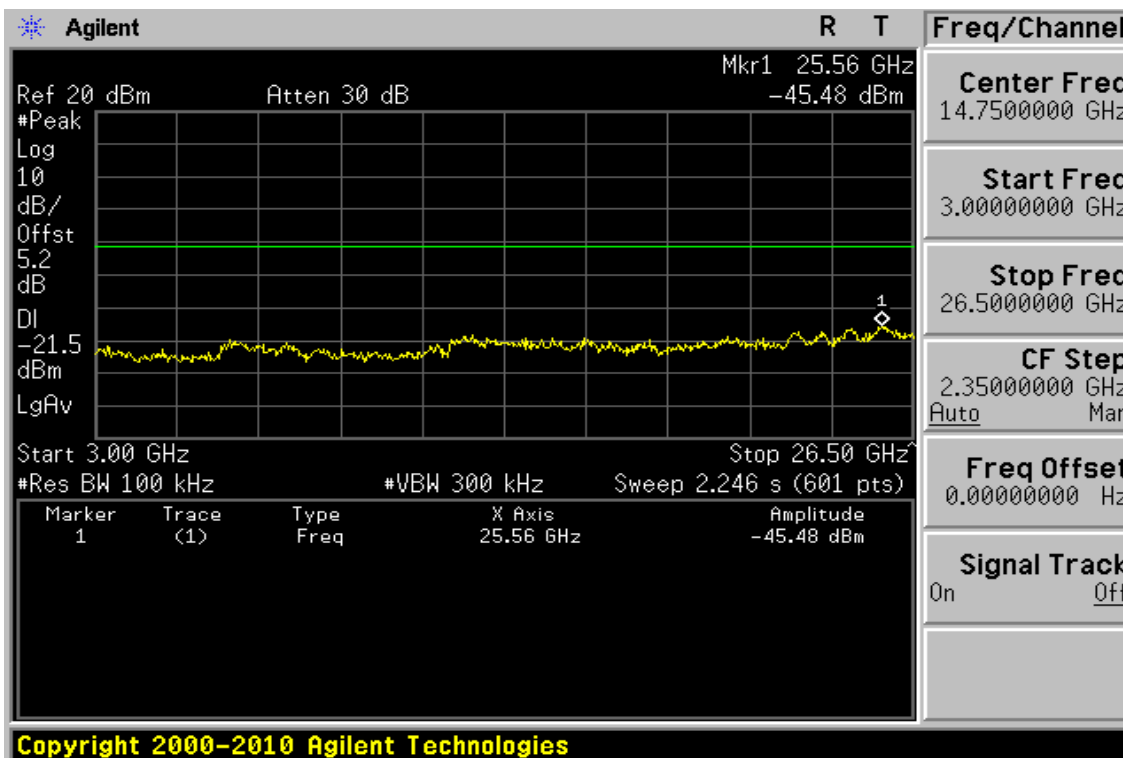
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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz



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Radiated Spurious Emission Measurement Result (Worst case EDR mode)

| | | | |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band | :EDR | Test Date | :2013-04-10 |
| Fundamental Frequency | :2402 MHz | Temp./Humi. | :27 deg_C / 66 RH |
| Operation Mode | :TX LOW | Engineer | :Nick |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 110.51 | S | Peak | 47.66 | -15.69 | 31.97 | 43.50 | -11.53 |
| 232.73 | S | Peak | 48.67 | -14.42 | 34.25 | 46.00 | -11.75 |
| 419.94 | S | Peak | 38.17 | -10.65 | 27.52 | 46.00 | -18.48 |
| 630.43 | S | Peak | 36.51 | -6.92 | 29.59 | 46.00 | -16.41 |
| 716.76 | S | Peak | 36.57 | -5.48 | 31.09 | 46.00 | -14.91 |
| 800.18 | S | Peak | 37.04 | -4.19 | 32.85 | 46.00 | -13.15 |
| 4804.00 | H | Average | 28.96 | 6.99 | 35.95 | 54.00 | -18.05 |
| 4804.00 | H | Peak | 38.03 | 6.99 | 45.02 | 74.00 | -28.98 |
| 7206.00 | H | --- | | | | | |
| 9608.00 | H | --- | | | | | |
| 12010.00 | H | --- | | | | | |
| 14412.00 | H | --- | | | | | |
| 16814.00 | H | --- | | | | | |
| 19216.00 | H | --- | | | | | |
| 21618.00 | H | --- | | | | | |
| 24020.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band | :EDR | Test Date | :2013-04-10 |
| Fundamental Frequency | :2402 MHz | Temp./Humi. | :27 deg_C / 66 RH |
| Operation Mode | :TX LOW | Engineer | :Nick |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 163.86 | S | Peak | 48.31 | -12.61 | 35.70 | 43.50 | -7.80 |
| 243.40 | S | Peak | 53.74 | -14.13 | 39.61 | 46.00 | -6.39 |
| 360.77 | S | Peak | 38.12 | -11.53 | 26.59 | 46.00 | -19.41 |
| 530.52 | S | Peak | 32.66 | -8.98 | 23.68 | 46.00 | -22.32 |
| 713.85 | S | Peak | 36.15 | -5.53 | 30.62 | 46.00 | -15.38 |
| 800.18 | S | Peak | 36.24 | -4.19 | 32.05 | 46.00 | -13.95 |
| 4804.00 | H | Average | 29.36 | 7.03 | 36.39 | 54.00 | -17.61 |
| 4804.00 | H | Peak | 40.41 | 7.03 | 47.44 | 74.00 | -26.56 |
| 7206.00 | H | --- | | | | | |
| 9608.00 | H | --- | | | | | |
| 12010.00 | H | --- | | | | | |
| 14412.00 | H | --- | | | | | |
| 16814.00 | H | --- | | | | | |
| 19216.00 | H | --- | | | | | |
| 21618.00 | H | --- | | | | | |
| 24020.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band | :EDR | Test Date | :2013-04-10 |
| Fundamental Frequency | :2441 MHz | Temp./Humi. | :27 deg_C / 66 RH |
| Operation Mode | :TX MID | Engineer | :Nick |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 107.60 | S | Peak | 48.05 | -16.01 | 32.04 | 43.50 | -11.46 |
| 233.70 | S | Peak | 48.78 | -14.40 | 34.38 | 46.00 | -11.62 |
| 419.94 | S | Peak | 37.61 | -10.65 | 26.96 | 46.00 | -19.04 |
| 533.43 | S | Peak | 37.84 | -8.92 | 28.92 | 46.00 | -17.08 |
| 630.43 | S | Peak | 37.07 | -6.92 | 30.15 | 46.00 | -15.85 |
| 800.18 | S | Peak | 36.66 | -4.19 | 32.47 | 46.00 | -13.53 |
| 4882.00 | H | Average | 28.31 | 7.16 | 35.47 | 54.00 | -18.53 |
| 4882.00 | H | Peak | 37.83 | 7.16 | 44.99 | 74.00 | -29.01 |
| 7323.00 | H | --- | | | | | |
| 9764.00 | H | --- | | | | | |
| 12205.00 | H | --- | | | | | |
| 14646.00 | H | --- | | | | | |
| 17087.00 | H | --- | | | | | |
| 19528.00 | H | --- | | | | | |
| 21969.00 | H | --- | | | | | |
| 24410.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band | :EDR | Test Date | :2013-04-10 |
| Fundamental Frequency | :2441 MHz | Temp./Humi. | :27 deg_C / 66 RH |
| Operation Mode | :TX MID | Engineer | :Nick |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|----------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 164.83 | S | Peak | 48.32 | -12.69 | 35.63 | 43.50 | -7.87 |
| 243.40 | S | Peak | 53.41 | -14.13 | 39.28 | 46.00 | -6.72 |
| 359.80 | S | Peak | 39.53 | -11.54 | 27.99 | 46.00 | -18.01 |
| 533.43 | S | Peak | 35.33 | -8.92 | 26.41 | 46.00 | -19.59 |
| 715.79 | S | Peak | 36.91 | -5.50 | 31.41 | 46.00 | -14.59 |
| 800.18 | S | Peak | 36.86 | -4.19 | 32.67 | 46.00 | -13.33 |
| 4882.00 | H | Average | 29.62 | 7.10 | 36.72 | 54.00 | -17.28 |
| 4882.00 | H | Peak | 41.24 | 7.10 | 48.34 | 74.00 | -25.66 |
| 7323.00 | H | --- | | | | | |
| 9764.00 | H | --- | | | | | |
| 12205.00 | H | --- | | | | | |
| 14646.00 | H | --- | | | | | |
| 17087.00 | H | --- | | | | | |
| 19528.00 | H | --- | | | | | |
| 21969.00 | H | --- | | | | | |
| 24410.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band | :EDR | Test Date | :2013-04-10 |
| Fundamental Frequency | :2480 MHz | Temp./Humi. | :27 deg_C / 66 RH |
| Operation Mode | :TX HIGH | Engineer | :Nick |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :VERTICAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 243.40 | S | Peak | 48.62 | -14.13 | 34.49 | 46.00 | -11.51 |
| 419.94 | S | Peak | 37.58 | -10.65 | 26.93 | 46.00 | -19.07 |
| 530.52 | S | Peak | 37.12 | -8.98 | 28.14 | 46.00 | -17.86 |
| 630.43 | S | Peak | 36.42 | -6.92 | 29.50 | 46.00 | -16.50 |
| 715.79 | S | Peak | 37.44 | -5.50 | 31.94 | 46.00 | -14.06 |
| 800.18 | S | Peak | 34.87 | -4.19 | 30.68 | 46.00 | -15.32 |
| 4960.00 | S | Average | 35.62 | 7.17 | 42.79 | 54.00 | -11.21 |
| 4960.00 | S | Peak | 45.64 | 7.17 | 52.81 | 74.00 | -21.19 |
| 7440.00 | H | --- | | | | | |
| 9920.00 | H | --- | | | | | |
| 12400.00 | H | --- | | | | | |
| 14880.00 | H | --- | | | | | |
| 17360.00 | H | --- | | | | | |
| 19840.00 | H | --- | | | | | |
| 22320.00 | H | --- | | | | | |
| 24800.00 | H | --- | | | | | |

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| | | | |
|-----------------------|-----------|--------------------------|-------------------|
| Operation Band | :EDR | Test Date | :2013-04-10 |
| Fundamental Frequency | :2480 MHz | Temp./Humi. | :27 deg_C / 66 RH |
| Operation Mode | :TX HIGH | Engineer | :Nick |
| EUT Pol. | :H PLAN | Measurement Antenna Pol. | :HORIZONTAL |

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 165.80 | S | Peak | 48.22 | -12.77 | 35.45 | 43.50 | -8.05 |
| 243.40 | S | Peak | 53.39 | -14.13 | 39.26 | 46.00 | -6.74 |
| 362.71 | S | Peak | 38.80 | -11.51 | 27.29 | 46.00 | -18.71 |
| 530.52 | S | Peak | 32.87 | -8.98 | 23.89 | 46.00 | -22.11 |
| 717.73 | S | Peak | 36.89 | -5.46 | 31.43 | 46.00 | -14.57 |
| 800.18 | S | Peak | 35.53 | -4.19 | 31.34 | 46.00 | -14.66 |
| 4960.00 | S | Average | 32.26 | 7.02 | 39.28 | 54.00 | -14.72 |
| 4960.00 | S | Peak | 45.19 | 7.02 | 52.21 | 74.00 | -21.79 |
| 7440.00 | H | --- | | | | | |
| 9920.00 | H | --- | | | | | |
| 12400.00 | H | --- | | | | | |
| 14880.00 | H | --- | | | | | |
| 17360.00 | H | --- | | | | | |
| 19840.00 | H | --- | | | | | |
| 22320.00 | H | --- | | | | | |
| 24800.00 | H | --- | | | | | |

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10. FREQUENCY SEPARATION

10.1. Standard Applicable:

According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25KHz or the 20dB bandwidth of the hopping channel, whichever is greater.

10.2. Measurement Equipment Used:

Refer to section 7.2 for details.

10.3. Test Set-up:

Refer to section 7.3 for details.

10.4. Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = middle of hopping channel.
4. Set the spectrum analyzer as RBW,VBW=100KHz, Adjust Span to 3.0 MHz, Sweep = auto.
5. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

10.5. Measurement Result:

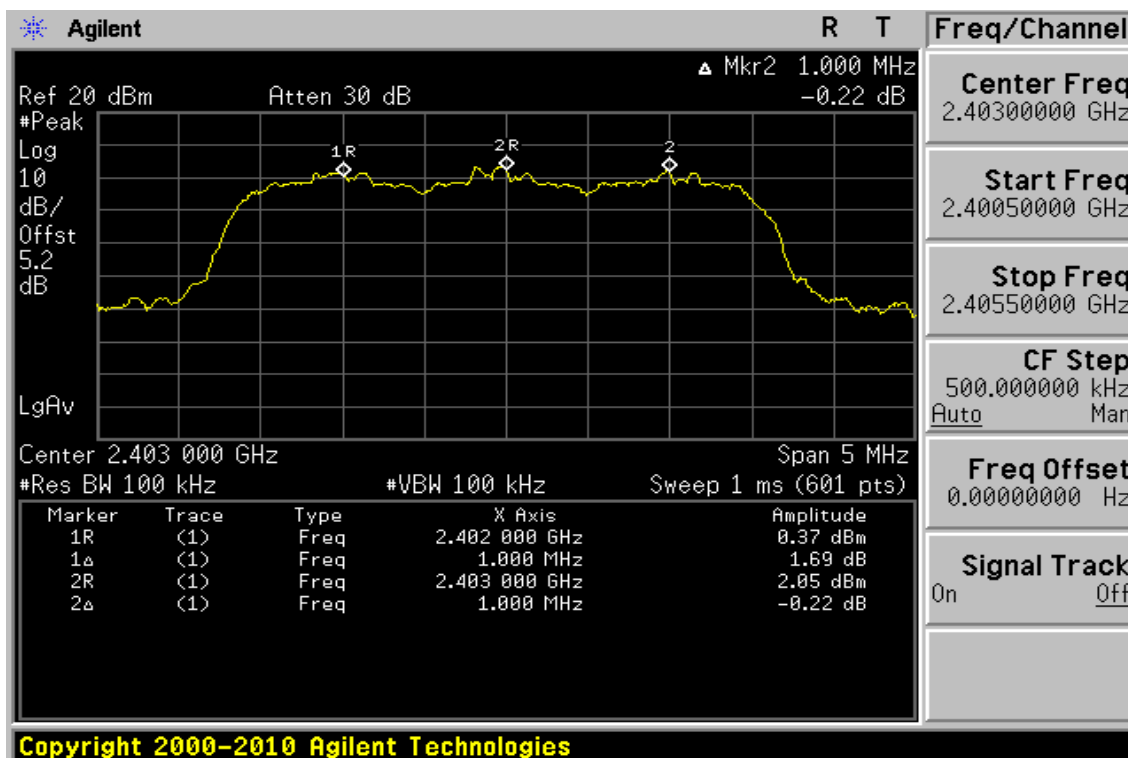
| Channel separation (MHz) | Limit | Result |
|-----------------------------|--|--------|
| 1 | $\geq 25\text{KHz}$ or 2/3 times 20dB bandwidth | PASS |

Note: Refer to next page for plots.

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Frequency Separation Test Data



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11. NUMBER OF HOPPING FREQUENCY

11.1. Standard Applicable:

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

11.2. Measurement Equipment Used:

Refer to section 7.2 for details.

11.3. Test Set-up:

Refer to section 7.3 for details.

11.4. Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set spectrum analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
4. Set the spectrum analyzer as RBW=430KHz, VBW=1.5MHz,
5. Max hold, view and count how many channel in the band.

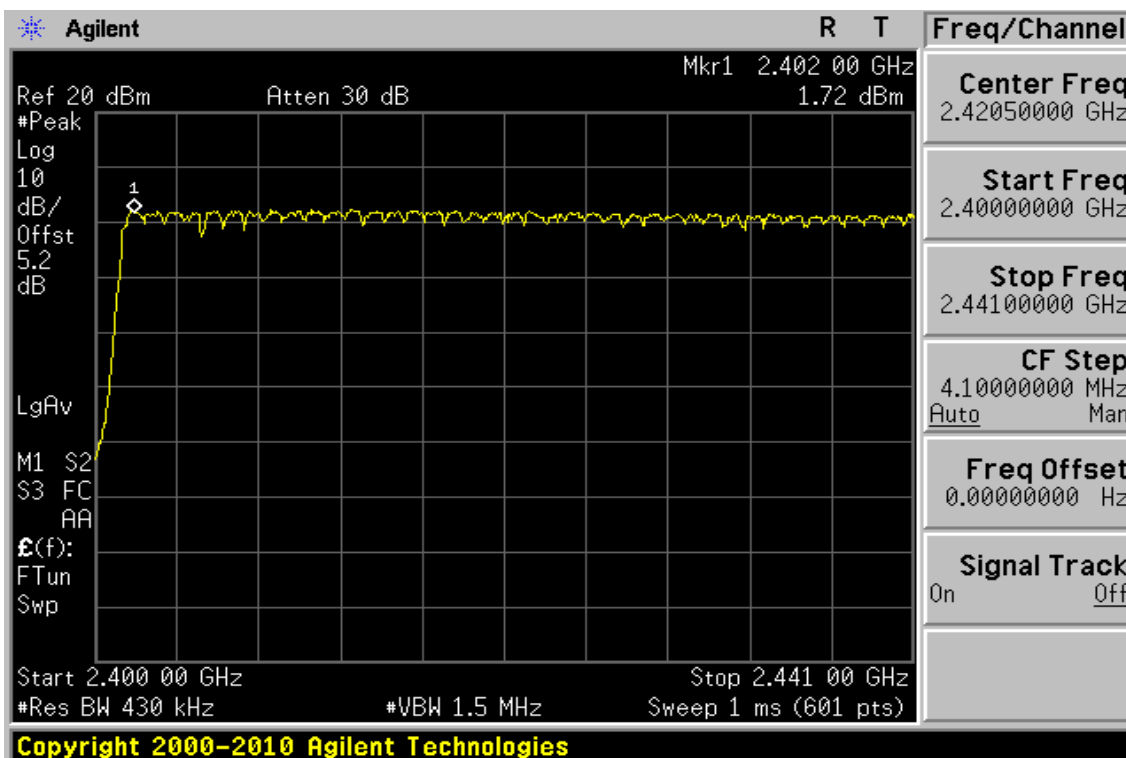
11.5. Measurement Result:

Note: Refer to next page for plots.

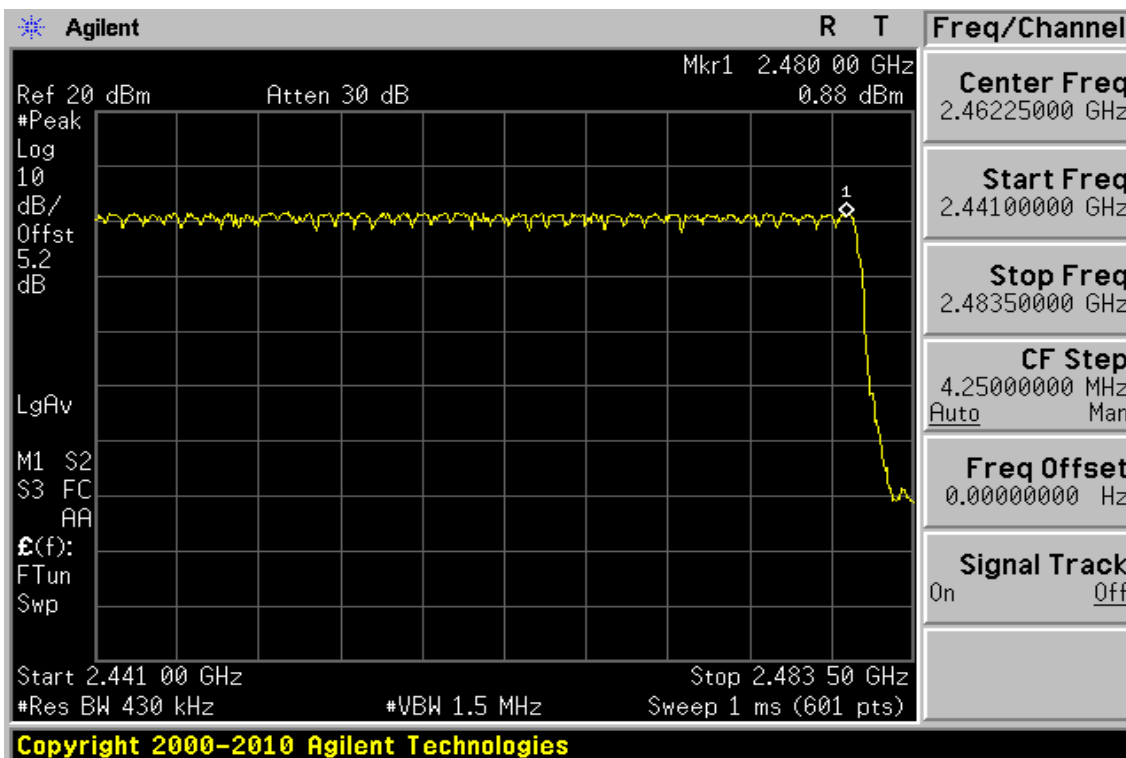
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Channel Number
2.4 GHz – 2.441GHz



2.441 GHz – 2.4835GHz



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12. TIME OF OCCUPANCY (DWELL TIME)

12.1. Standard Applicable:

According to §15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

12.2. Measurement Equipment Used:

Refer to section 7.2 for details.

12.3. Test Set-up:

Refer to section 7.3 for details.

12.4. Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW=1MHz, VBW=3MHz, Span = 0Hz , Adjust Sweep = 15ms.
5. Repeat above procedures until all frequency measured were complete.

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12.5. Measurement Result:

A period time = 0.4 (ms) * 79 = 31.6 (s)

CH Low: 3DH1 time slot = 0.397 (ms) * (1600/(2*79)) * 31.6 = 127.04 (ms)

3DH3 time slot = 1.633 (ms) * (1600/(4*79)) * 31.6 = 261.28 (ms)

3DH5 time slot = 2.883 (ms) * (1600/(6*79)) * 31.6 = 307.52 (ms)

CH Mid: 3DH1 time slot = 0.397 (ms) * (1600/(2*79)) * 31.6 = 127.04 (ms)

3DH3 time slot = 1.633 (ms) * (1600/(4*79)) * 31.6 = 261.28 (ms)

3DH5 time slot = 2.883 (ms) * (1600/(6*79)) * 31.6 = 307.52 (ms)

CH High: 3DH1 time slot = 0.397 (ms) * (1600/(2*79)) * 31.6 = 127.04 (ms)

3DH3 time slot = 1.633 (ms) * (1600/(4*79)) * 31.6 = 261.28 (ms)

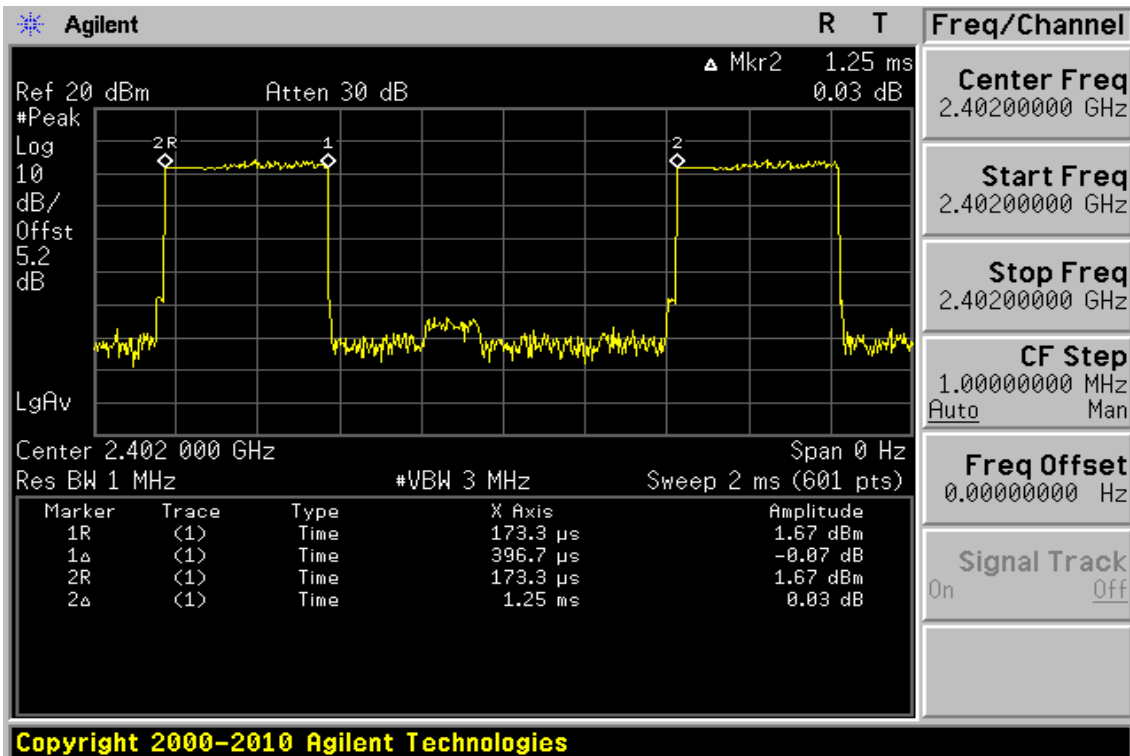
3DH5 time slot = 2.883 (ms) * (1600/(6*79)) * 31.6 = 307.52 (ms)

Note: Refer to next page for plots.

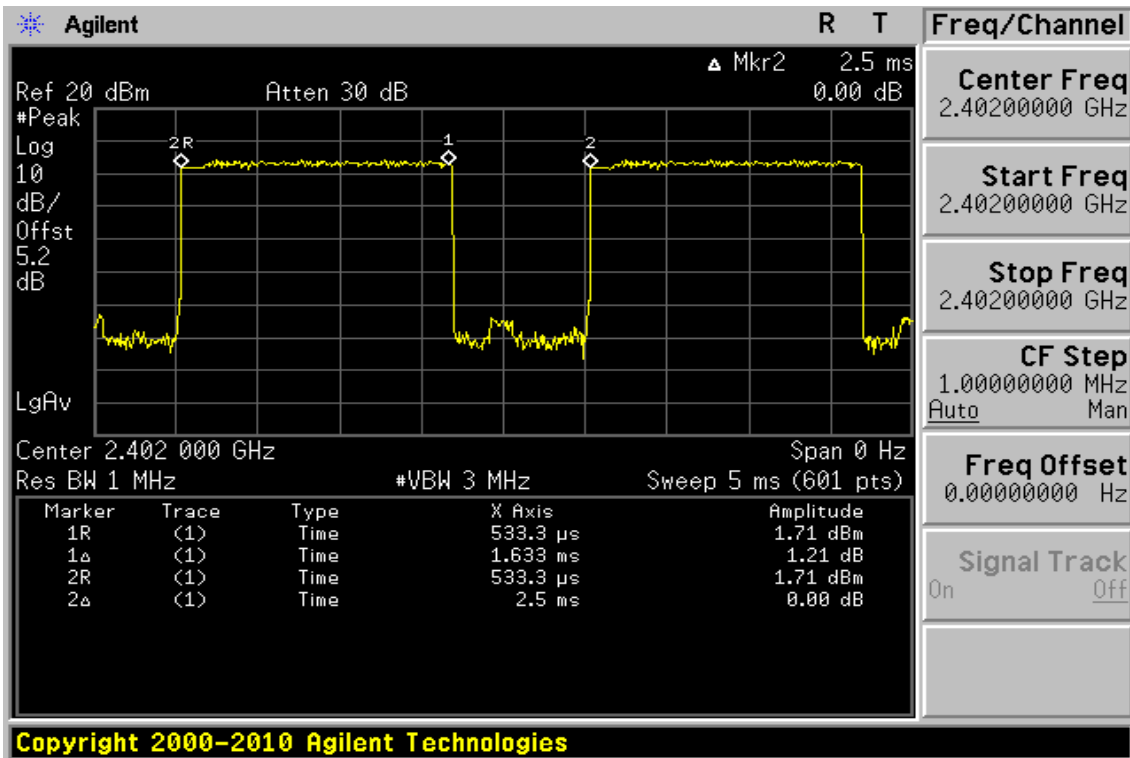
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CH-Low
3DH1



3DH3

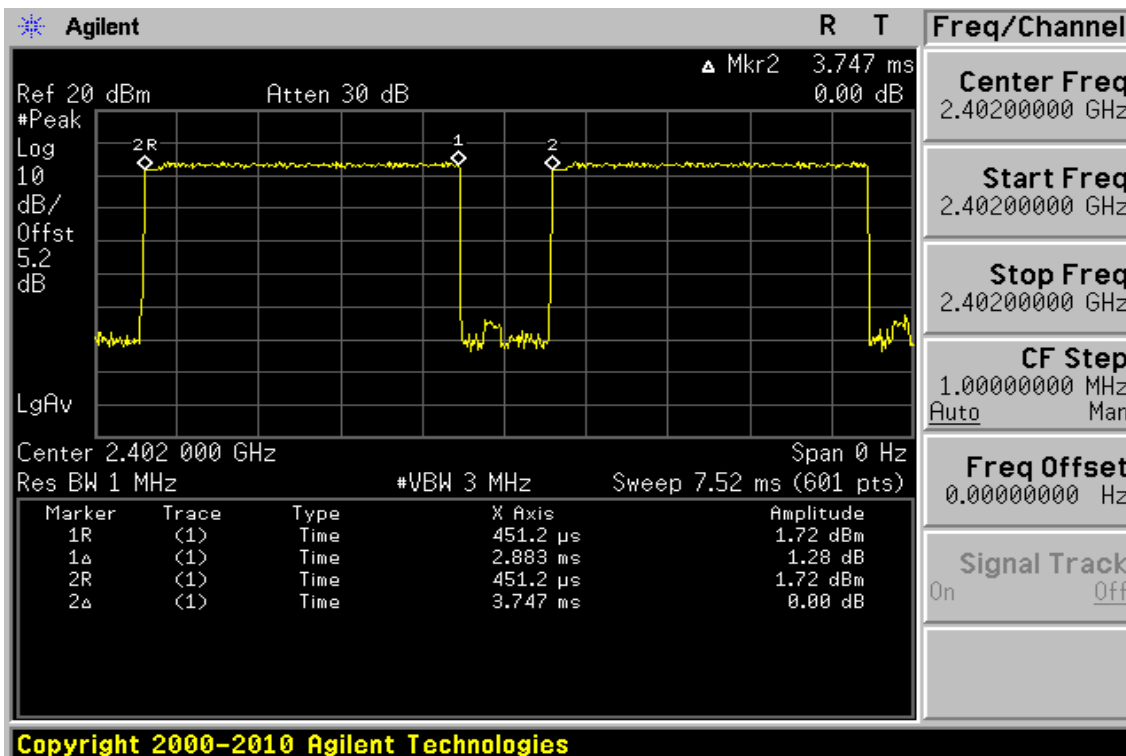


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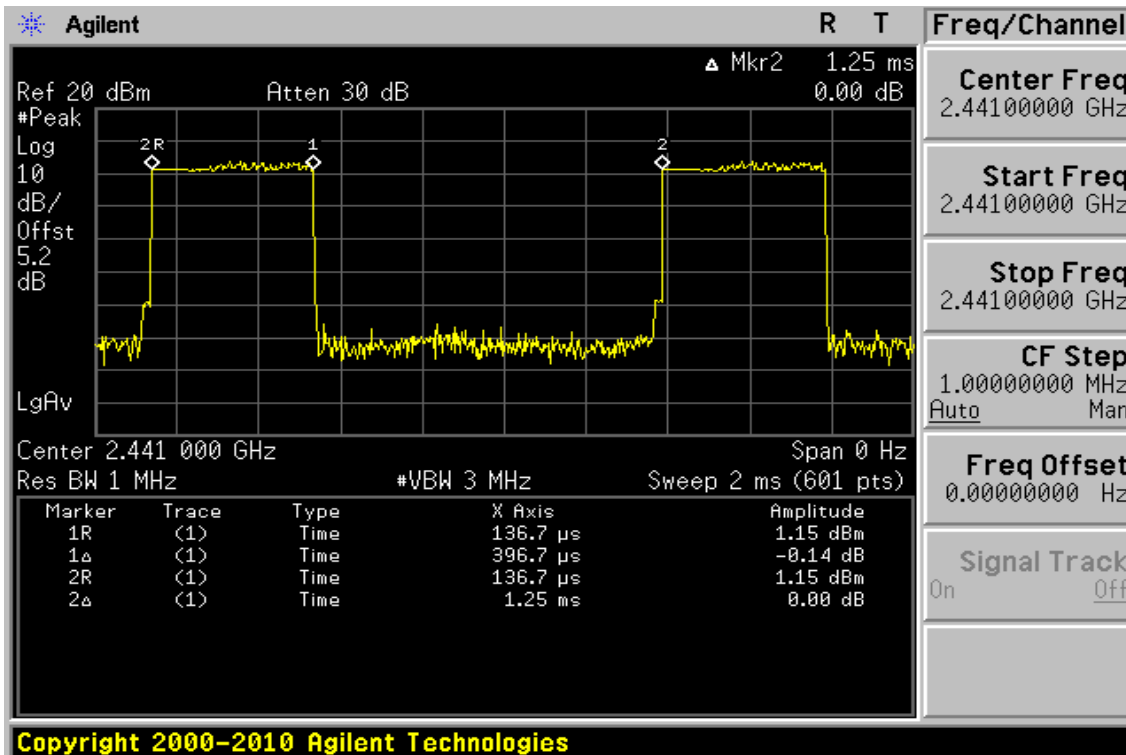
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3DH5



CH-Mid

3DH1



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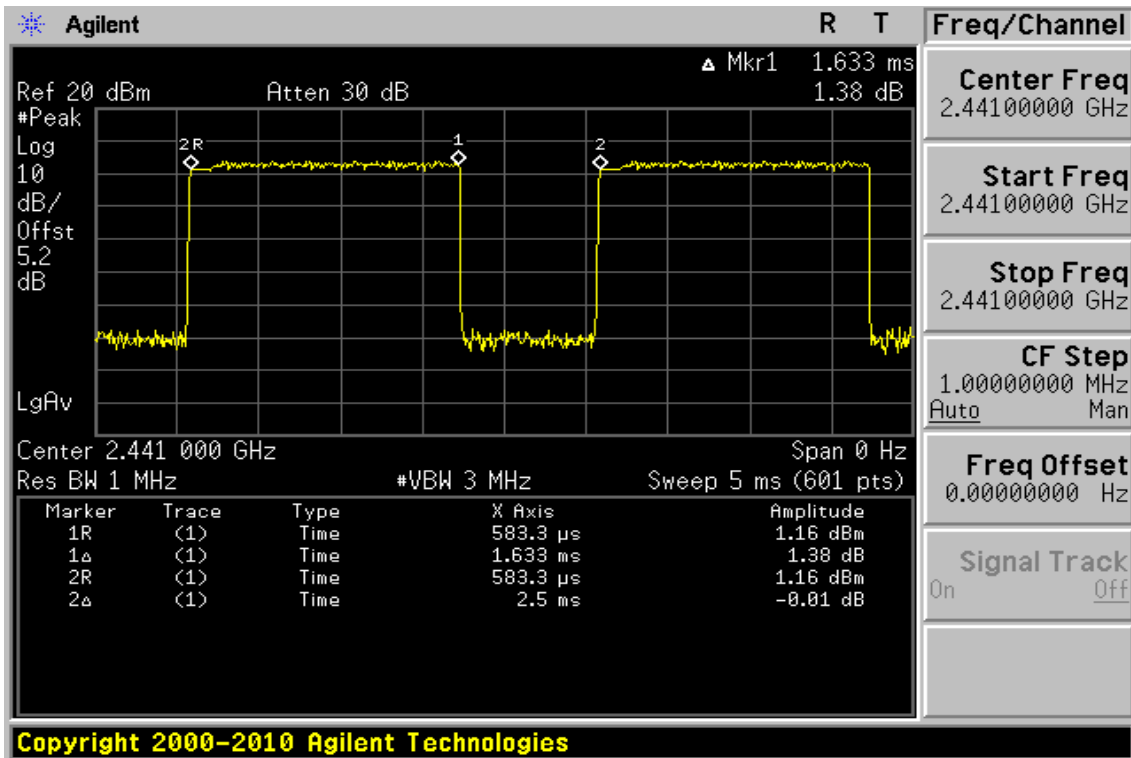
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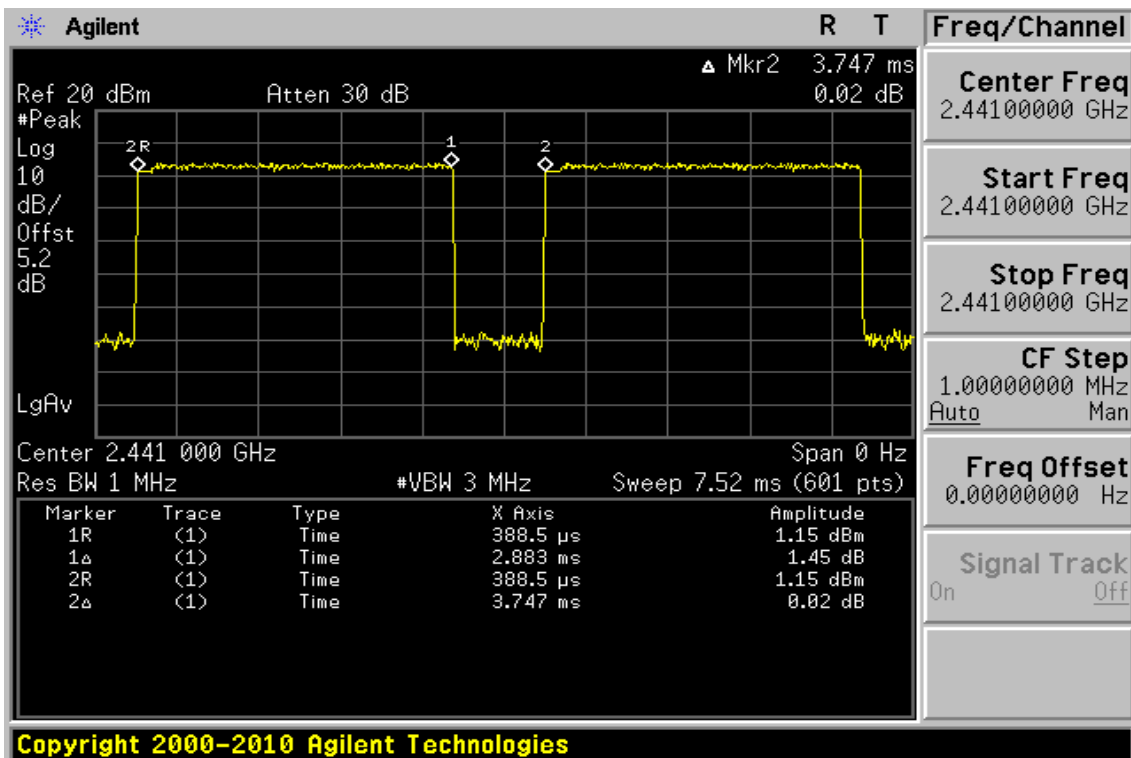
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3DH3



3DH5



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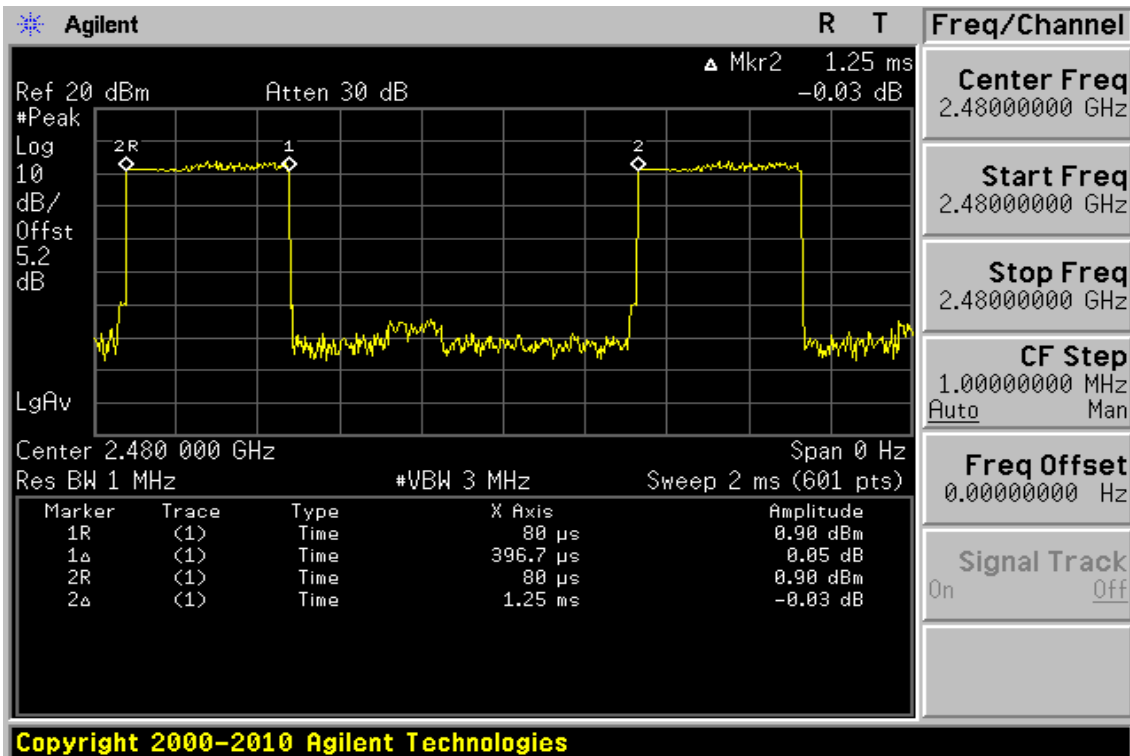
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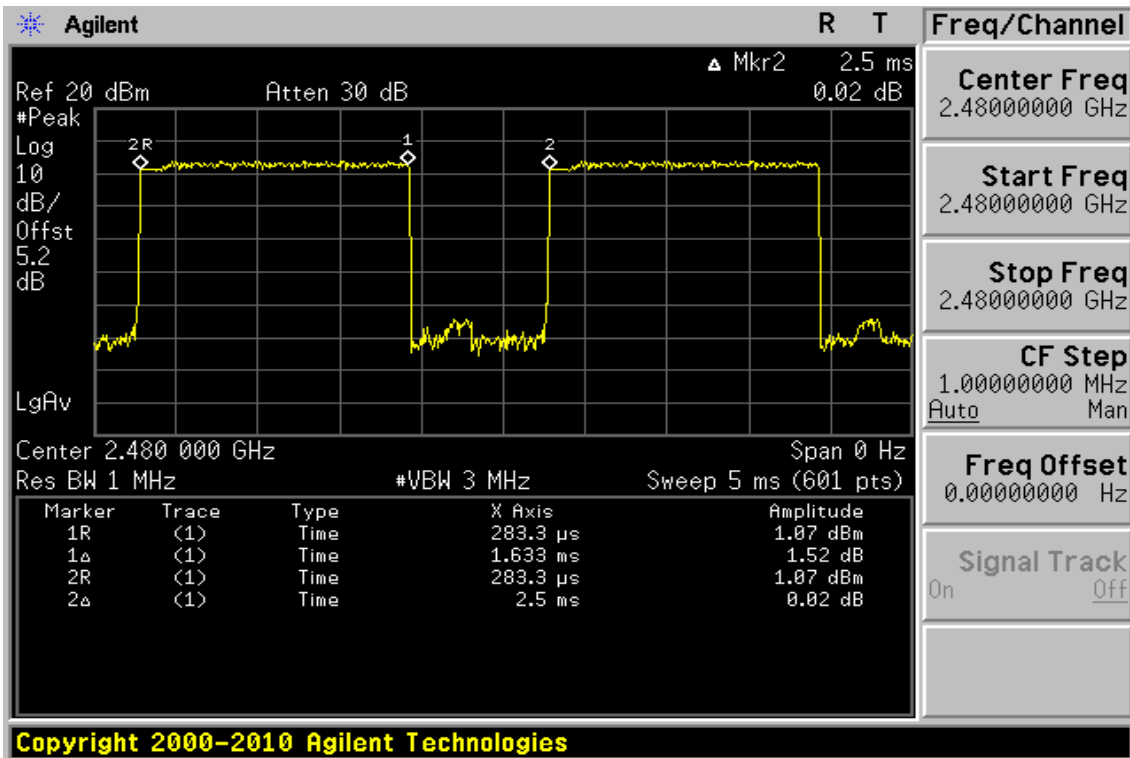
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CH-High
3DH1



3DH3

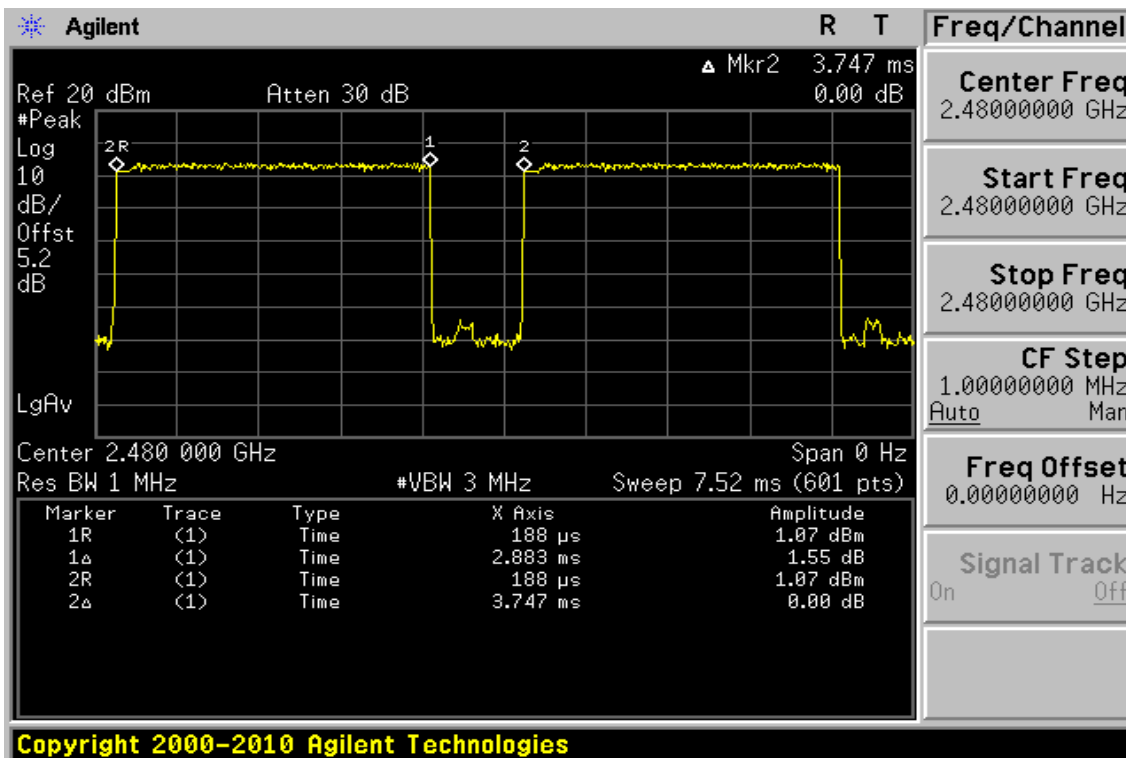


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13. 20dB Bandwidth

13.1. Standard Applicable:

According to §15.247(a)(1), for frequency hopping systems operating in the 2400MHz-2483.5 MHz no limit for 20dB bandwidth.

13.2. Measurement Equipment Used:

Refer to section 7.2 for details.

13.3. Test Set-up:

Refer to section 7.3 for details.

13.4. Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as $RBW \geq 1\%$ of Bandwidth. $VBW \geq RBW$, Span= 3MHz, Sweep=auto
4. Mark the peak frequency and -20dB (upper and lower) frequency.
5. Repeat above procedures until all frequency measured were complete.

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13.5. Measurement Result:

20dB Bandwidth:

BDR mode (GFSK):

| CH | Bandwidth (kHz) |
|--------|--------------------|
| Lower | 886.722 |
| Mid | 919.604 |
| Higher | 886.745 |

EDR mode ($\pi/4$ DQPSK):

| CH | Bandwidth (MHz) | 2/3 Bandwidth (MHz) |
|--------|--------------------|------------------------|
| Lower | 1.327 | 0.885 |
| Mid | 1.325 | 0.883 |
| Higher | 1.239 | 0.826 |

EDR mode (8DPSK):

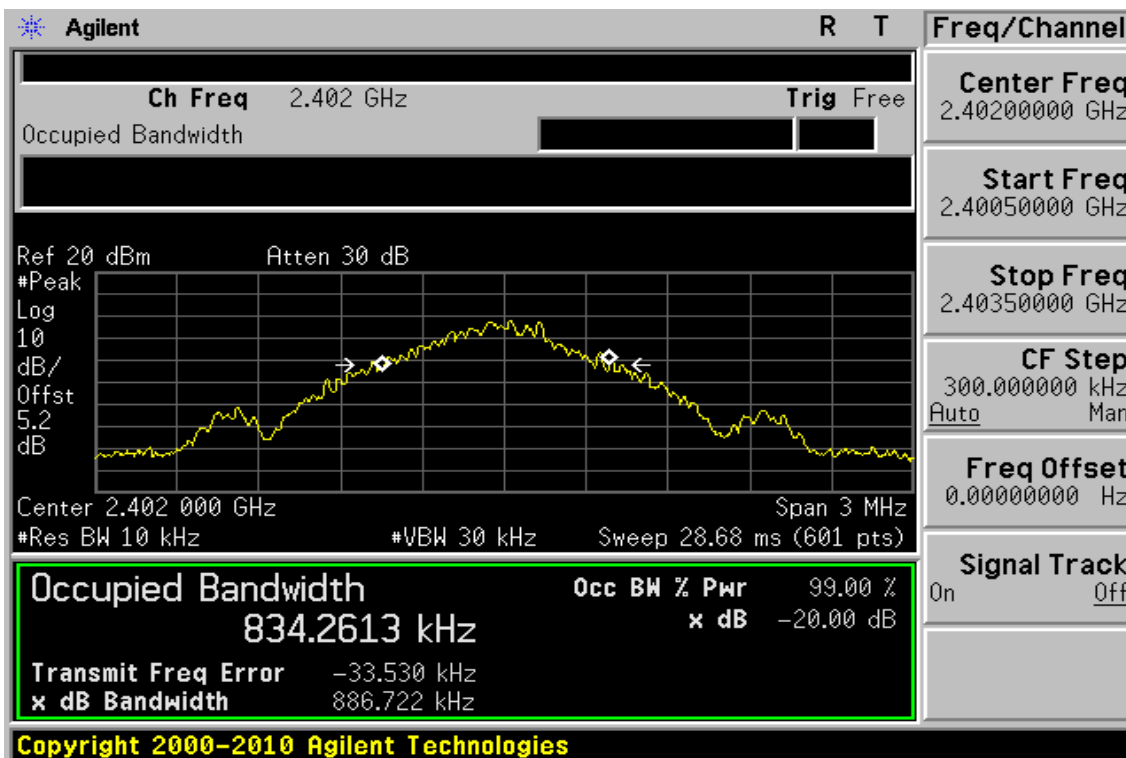
| CH | Bandwidth (MHz) | 2/3 Bandwidth (MHz) |
|--------|--------------------|------------------------|
| Lower | 1.311 | 0.874 |
| Mid | 1.309 | 0.873 |
| Higher | 1.323 | 0.882 |

Note: Refer to next page for plots.

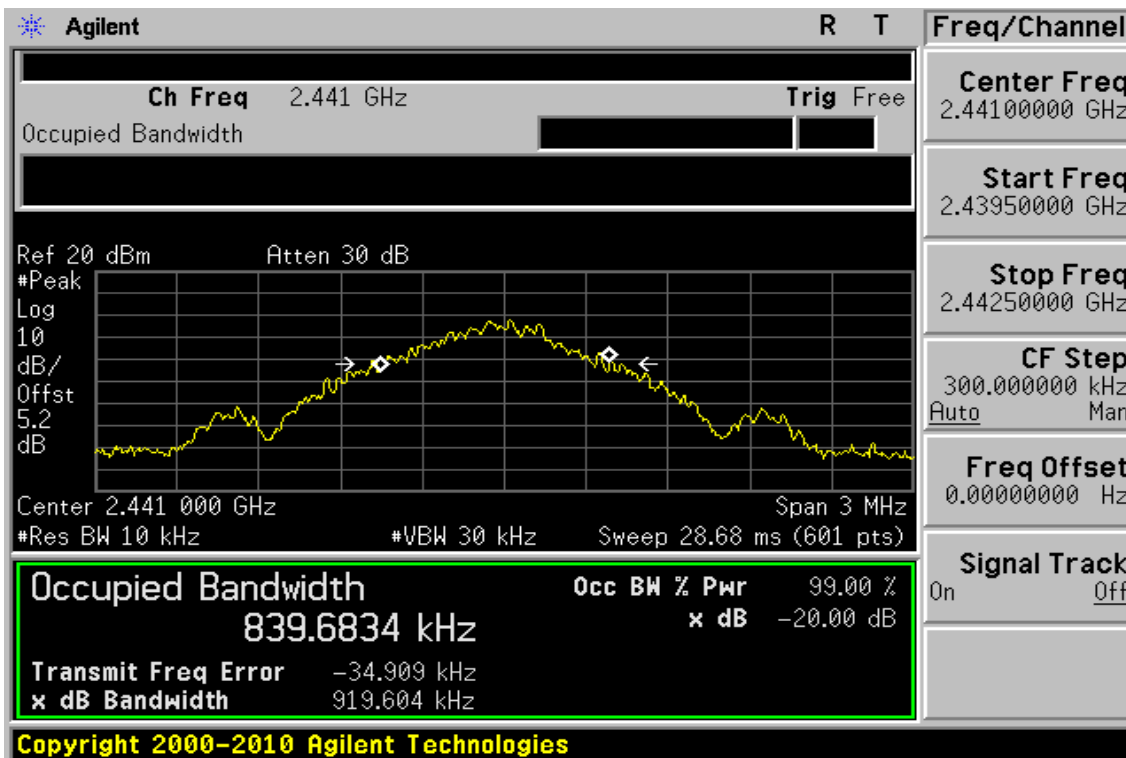
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BDR Mode (GFSK)
20dB Bandwidth Test Data CH-Low



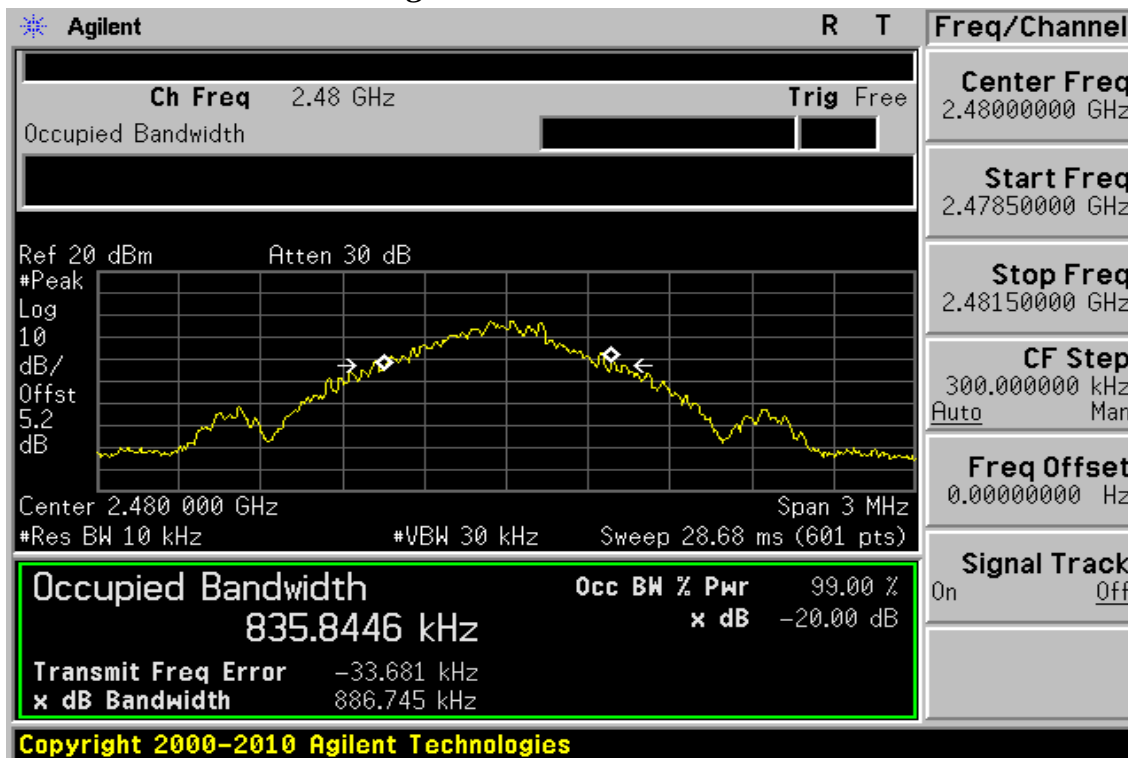
20dB Bandwidth Test Data CH-Mid



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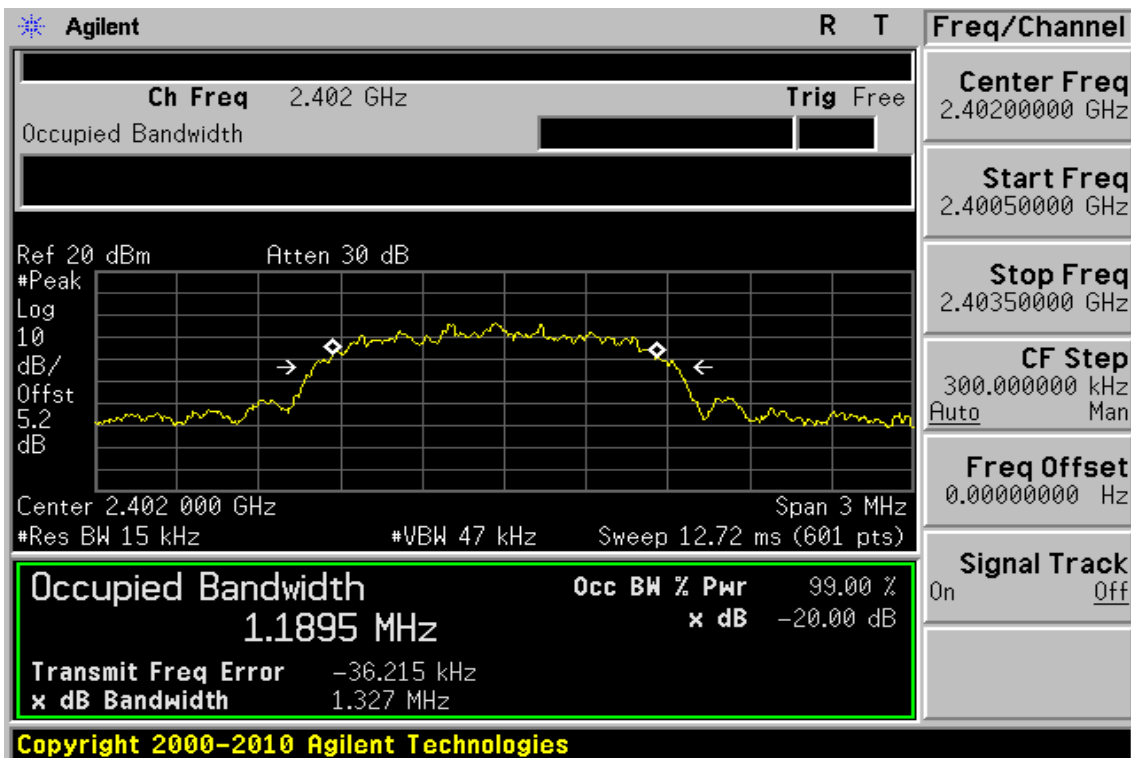
20dB Bandwidth Test Data CH-High



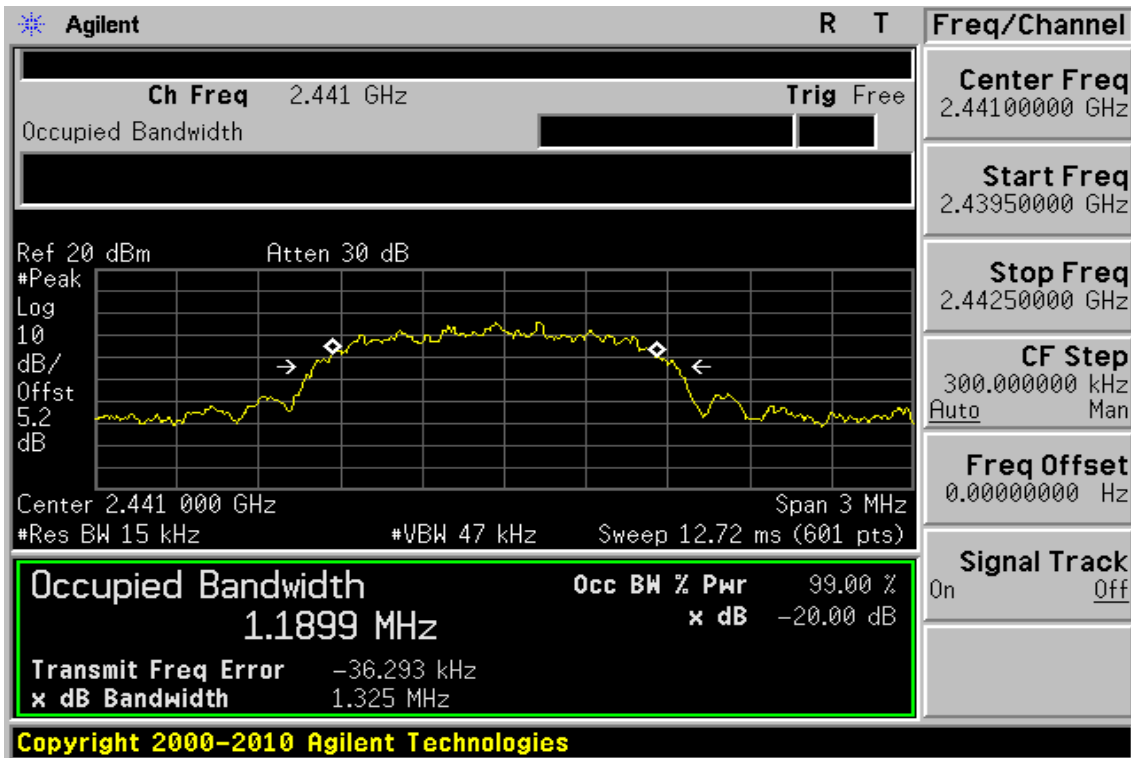
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EDR Mode ($\pi/4$ DQPSK)
20dB Bandwidth Test Data CH-Low



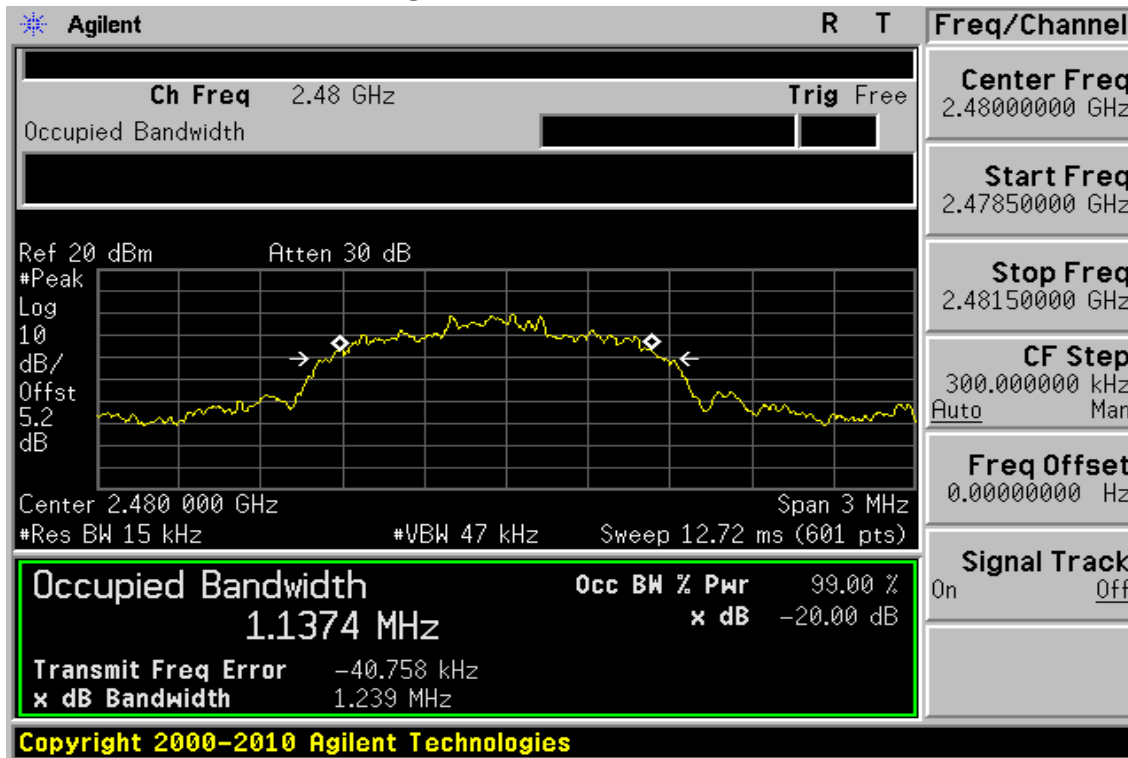
20dB Bandwidth Test Data CH-Mid



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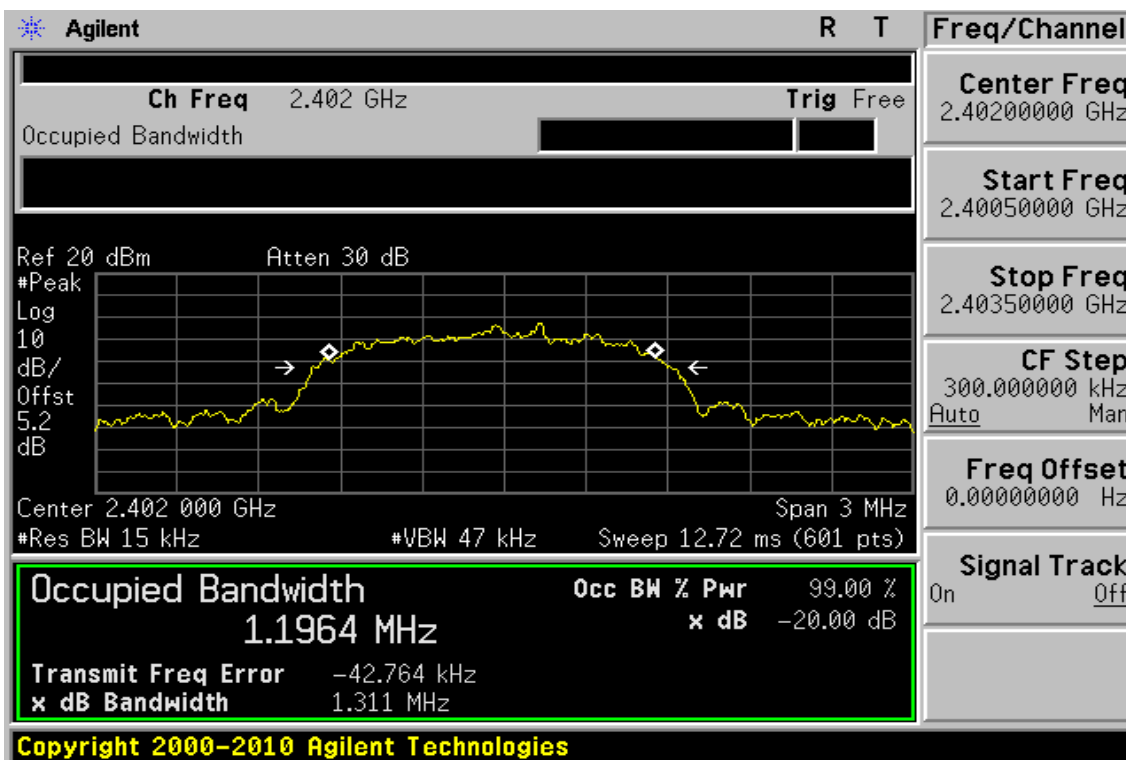
20dB Bandwidth Test Data CH-High



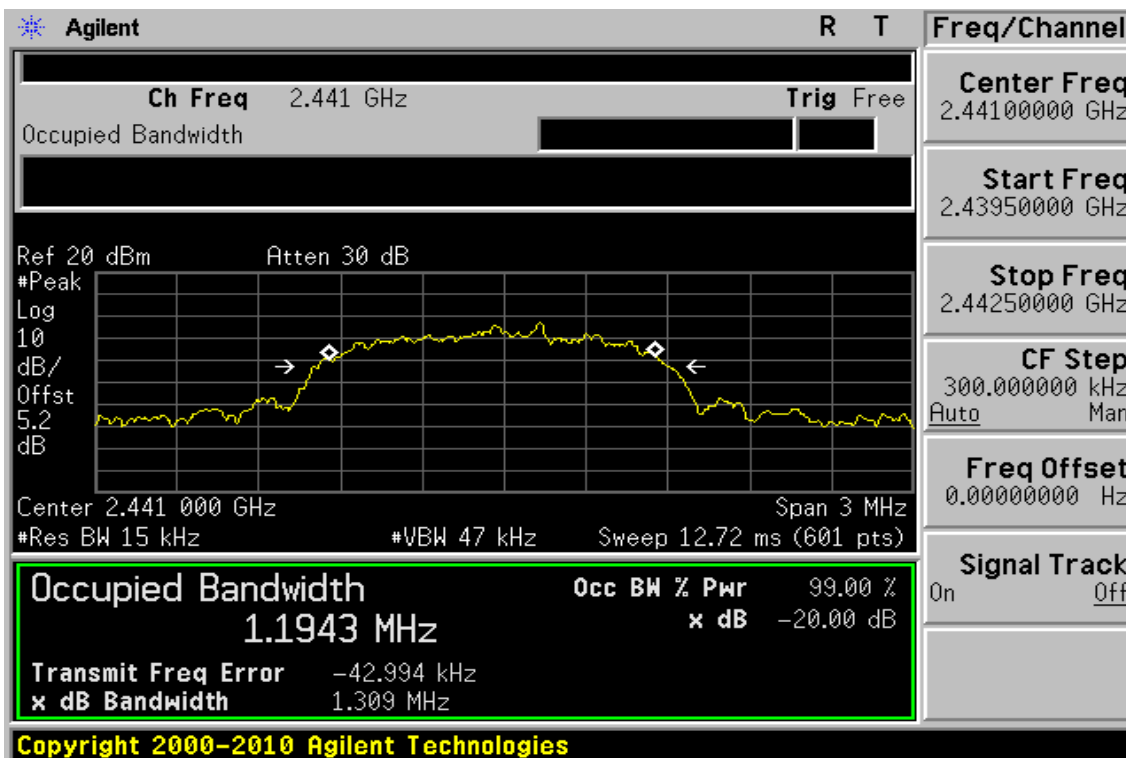
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EDR Mode (8DPSK)
20dB Bandwidth Test Data CH-Low



20dB Bandwidth Test Data CH-Mid

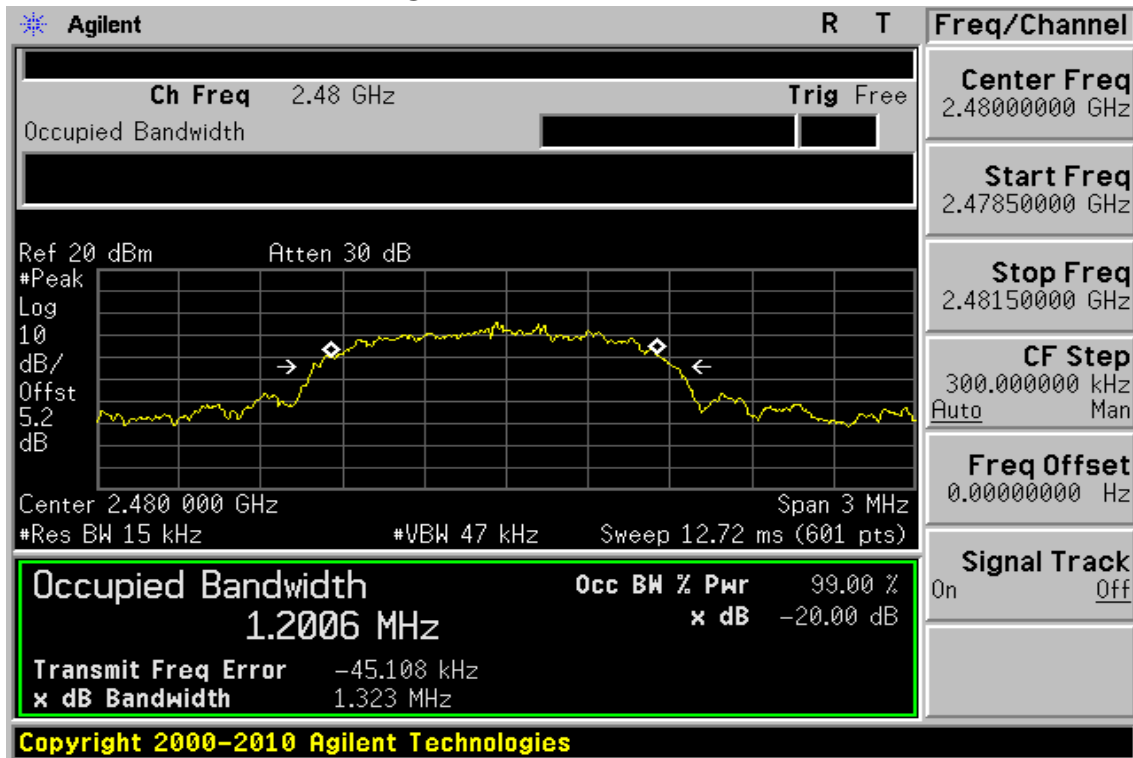


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20dB Bandwidth Test Data CH-High



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14. ANTENNA REQUIREMENT

14.1. Standard Applicable:

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

And according to §15.247(4)(1), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

14.2. Antenna Connected Construction:

The directional gains of antenna used for transmitting is 2.88dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

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15. Maximum Permissible Exposure (MPE)

15.1. Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission’s guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1093 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Averaging Time (minute) |
|---|-------------------------------|-------------------------------|-------------------------------------|-------------------------|
| Limits for General Population/Uncontrolled Exposure | | | | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34-30 | 824/f | 2.19/f | *(180/f ²) | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | / | / | F/1500 | 30 |
| 1500-15000 | / | / | 1.0 | 30 |

F = frequency in MHz

* = Plane-wave equipment power density

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15.2. Maximum Permissible Exposure (MPE) Evaluation:

BDR mode (GFSK):

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 2402.00 | 3.45 | 3.45 | 0.00221 | 1 |
| 2441.00 | 3.01 | 3.01 | 0.00200 | 1 |
| 2480.00 | 2.98 | 2.98 | 0.00199 | 1 |

EDR mode ($\pi/4$ DQPSK):

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 2402.00 | 3.77 | 3.77 | 0.00238 | 0.125 |
| 2441.00 | 3.43 | 3.43 | 0.00220 | 0.125 |
| 2480.00 | 3.53 | 3.53 | 0.00225 | 0.125 |

EDR mode (8DPSK):

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 2402.00 | 4.31 | 4.31 | 0.00270 | 0.125 |
| 2441.00 | 4.02 | 4.02 | 0.00252 | 0.125 |
| 2480.00 | 4.16 | 4.16 | 0.00261 | 0.125 |

Offset: 5.2dB

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15.3. MPE Prediction (EDR Mode)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

| | | |
|--|-------------|-----------------------|
| Maximum peak output power at antenna input terminal: | 4.31 | (dBm) |
| Maximum peak output power at antenna input terminal: | 2.697739432 | (mW) |
| Duty cycle: | 77 | (%) |
| Maximum Pav : | 2.077259363 | (mW) |
| Antenna gain (typical): | 2.88 | (dBi) |
| Maximum antenna gain: | 1.940885878 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 2402 | (MHz) |
| MPE limit for uncontrolled exposure at prediction | 1 | (mW/cm ²) |
| Power density at predication frequency at 20 (cm) | 0.0008025 | (mW/cm ²) |

Measurement Result

The predicted power density level at 20 cm is 0.0008025 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2402MHz.

Note: In comparison with BDR, and EDR, EDR results highest emission of power, and further produces higher value of Maximum Permissible Exposure at 20cm. Hence, only the derivation of MPR on the basis of EDR mode is present in this given test report.

- End of Report -

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