

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: PDA Scanner
Brand Name: unitech
Model No.: PA550
Model Difference: N/A
FCC ID: HLEPA550BTGGR
Report No.: EF/2011/70012
Issue Date: July 26, 2011
FCC Rule Part: §15.247, Cat: DSS
Prepared for: unitech electronics co., ltd.
5F, No. 136, Lane 235, Pao-Chiao Rd.,
Hsin-Tien Dist., New Taipei City, Taiwan
Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No. 134, Wu Kung Rd., Wuku Industrial Zone,
Taipei County, Taiwan



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VERIFICATION OF COMPLIANCE

Applicant: unitech electronics co., ltd.
5F, No. 136, Lane 235, Pao-Chiao Rd., Hsin-Tien Dist.,
New Taipei City, Taiwan

Product Description: PDA Scanner

Brand Name: unitech

Model No.: PA550

Model Difference: N/A

FCC ID: HLEPA550BTGGR

File Number: EF/2011/70012

Date of test: July 04, 2011 ~ July 25, 2011

Date of EUT Received: July 04, 2011

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 C63.4:2003 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 15.247.

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

Test By:

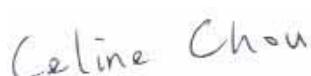


Date:

July 26, 2011

Eric Su / Engineer

Prepared By:

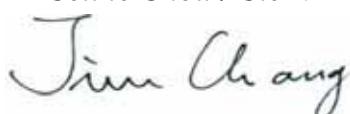


Date:

July 26, 2011

Celine Chou / Clerk

Approved By:



Date:

July 26, 2011

Jim Chang / Supervisor

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Version

| Version No. | Date | Description |
|-------------|---------------|------------------------------|
| 00 | July 26, 2011 | Initial creation of document |
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1. GENERAL INFORMATION

General:

| | | |
|-------------------|---|--|
| Product Name: | PDA Scanner | |
| Brand Name: | unitech | |
| Model No.: | PA550 | |
| Model Difference: | N/A | |
| Data Cable | Model No.: 1550-900036G, Supplier: SINBON | |
| Power Supply | 3.7Vdc Lithium Ion battery or 5Vdc by AC/DC power adapter | |
| | Battery: | Model No.: 1400-900008G, Supplier: SANYO Electric Co., Ltd. |
| | Adapter: | Model No.: 3A-182WP05, Supplier: ENG Electric Co., Ltd. |

Bluetooth:

| | |
|----------------------|---|
| Frequency Range: | 2402 – 2480MHz |
| Bluetooth Version: | V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK) |
| Channel number: | 79 channels |
| Modulation type: | Frequency Hopping Spread Spectrum |
| Transmit Power: | 2.44 dBm (Peak) |
| Dwell Time: | <= 0.4s |
| Operating Mode: | Point-to-Point |
| Antenna Designation: | PIFA Antenna / Gain: 2.41dBi |

This test report applies for Bluetooth function.

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

This submittal(s) (test report) is intended for **FCC ID: HLEPA550BTGGR** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules. The composite system (digital device) is compliance with Subpart B is authorized under a Doc procedure.

1.2. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4: 2003. Radiated testing was performed at an antenna to EUT distance 3 meters.

Tested in accordance with FCC Public Notice DA 00-705

1.3. 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 Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. 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. Electronics & Communication Laboratory 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.

1.4. Special Accessories

Not available for this EUT intended for grant.

1.5. 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 operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4: 2003. 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 placed on a 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 and Subclause 8.3.1.2 of ANSI C63.4: 2003.

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2.4. Configuration of Tested System

Fig. 2-1 Configuration of Tested System

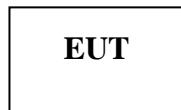


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------|-----------|----------------|------------|------------|------------|
| 1. | Bluetooth Test Set | Anritsu | MT8852B | 6k00006107 | N/A | N/A |

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3. SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|------------------------------|---|-----------|
| §15.207(a) | Conducted Emission | Compliant |
| §15.247(b)(1) | Peak Output Power | Compliant |
| §15.247(a) | 20dB Bandwidth | No Limit |
| §15.247I | 100 KHz Bandwidth Of Frequency Band Edges | Compliant |
| §15.209(a) (f) | Spurious Emission | Compliant |
| §15.247(a)(1) | Frequency Separation | Compliant |
| §15.247(a)(1)(iii) | Number of hopping frequency | Compliant |
| §15.247(a)(1)(iii) | Time of Occupancy | Compliant |
| §15.203, §15.247(b)(4)(i) | 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 and DH5 highest data rate are chosen for full testing.

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High the worst case E2 position was reported.

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5. CONDUCTED EMISSION TEST

5.1. Standard Applicable

According to §15.207. frequency 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.

5.2. EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4: 2003.
2. The EUT was plug-in the AC/DC Power adapter. The host system was placed on the center of the back edge on the test table. The peripherals was placed on the side of the host PC system. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The spacing between the peripherals was 10 centimeters.
4. External I/O cables were draped along the edge of the test table and bundle when necessary.
5. The host system was connected with 120Vac/60Hz power source.

5.3. 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.

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5.4. Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|------------|-------------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCS30 | 828985/004 | 09/23/2010 | 09/22/2011 |
| LISN | Rolf-Heine | NNB-2/16Z | 99012 | 03/31/2011 | 03/30/2012 |
| LISN | FCC | FCC-LISN-50/250-25-2-01 | 04034 | 03/31/2011 | 03/30/2012 |
| Coaxial Cables | N/A | WK CE Cable | N/A | 11/28/2010 | 11/27/2011 |

5.5. 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.

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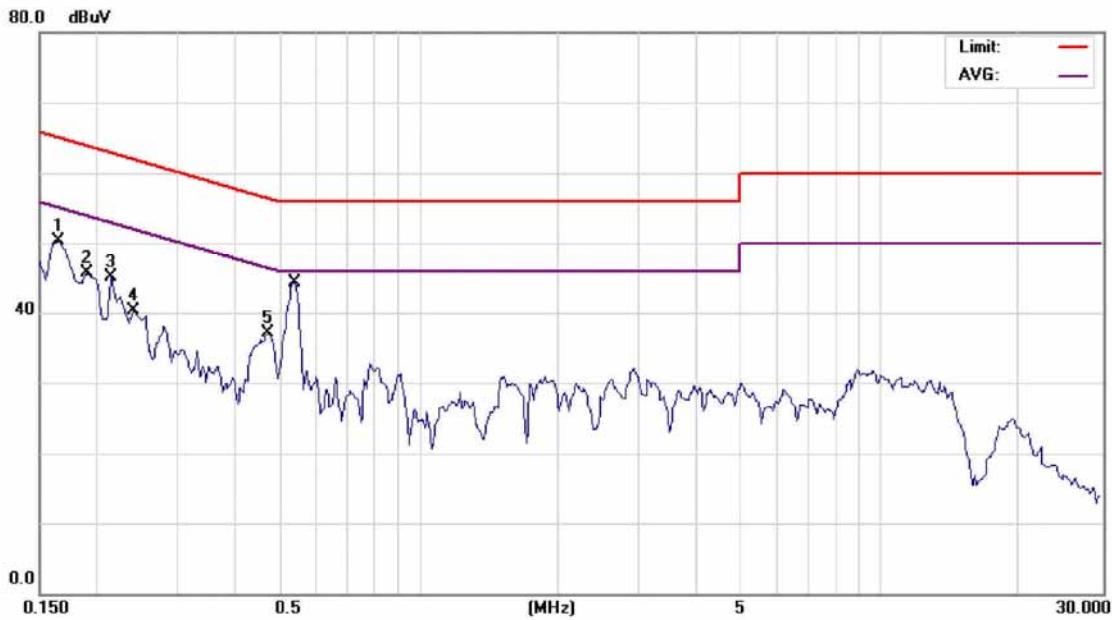
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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | | |
|-----------------|----------------|-----------|------------|---------------|
| Operation Mode: | Bluetooth Mode | | Test Date: | July 25, 2011 |
| Temperature: | 23 | Humidity: | 58 % | Test By: Eric |



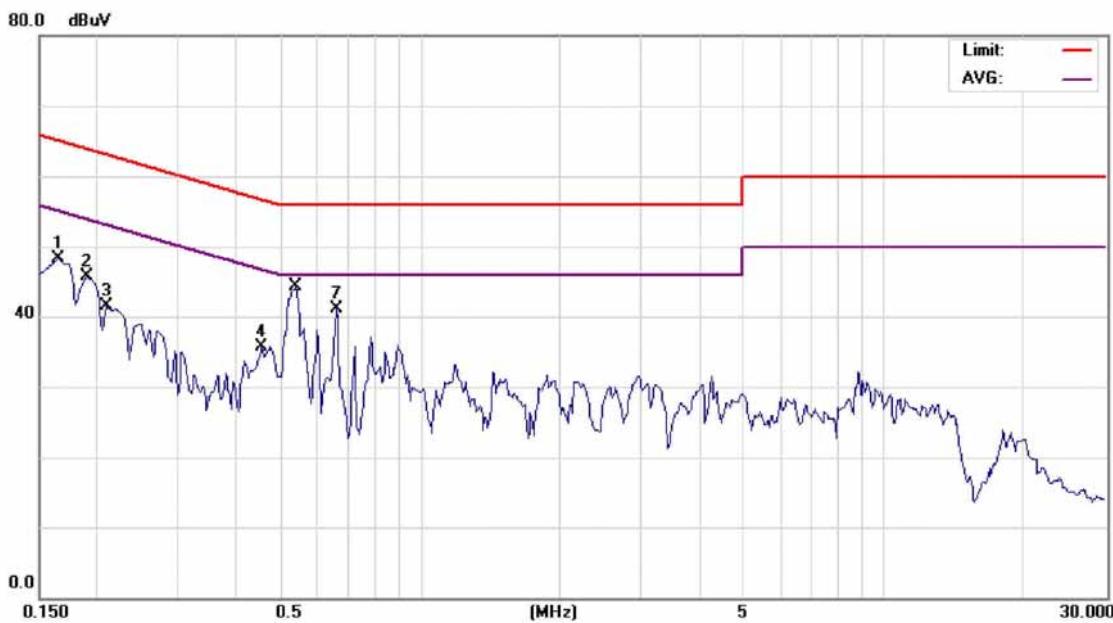
| | | |
|-----------------------------------|---------------------|--------------------|
| Site: SGS CONDUCTED #1 | Phase: L1 | Temperature: 23 °C |
| Limit: FCC Class B Conduction(QP) | Power: AC 120V/60Hz | Humidity: 58% |
| EUT: PDA Scanner | Distance: | Air Pressure: hpa |
| M/N: PA550 | | |
| Note: BT mode | | |

| No. | Mk. | Freq. | Reading Level | Factor | Measure- ment | Limit | Over | |
|-----|--------|-------|---------------|--------|------------------|--------|------|----------|
| | | | | | | | dB | Detector |
| MHz | | dBuV | | dB | | dBuV | | |
| 1 | 0.1650 | 50.19 | 0.13 | 50.32 | 65.21 | -14.89 | peak | |
| 2 | 0.1900 | 45.50 | 0.13 | 45.63 | 64.04 | -18.41 | peak | |
| 3 | 0.2150 | 44.98 | 0.12 | 45.10 | 63.01 | -17.91 | peak | |
| 4 | 0.2400 | 40.23 | 0.12 | 40.35 | 62.10 | -21.75 | peak | |
| 5 | 0.4700 | 36.93 | 0.12 | 37.05 | 56.51 | -19.46 | peak | |
| 6 | 0.5372 | 42.46 | 0.12 | 42.58 | 56.00 | -13.42 | QP | |
| 7 * | 0.5372 | 35.70 | 0.12 | 35.82 | 46.00 | -10.18 | AVG | |

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| | | |
|-----------------------------------|---------------------|--------------------|
| Site: SGS CONDUCTED #1 | Phase: N | Temperature: 23 °C |
| Limit: FCC Class B Conduction(QP) | Power: AC 120V/60Hz | Humidity: 58% |
| EUT: PDA Scanner | Distance: | Air Pressure: hpa |
| M/N: PA550 | | |
| Note: BT mode | | |

| No. | Mk. | Freq. MHz | Reading Level dBuV | Factor dB | Measure- ment dBuV | Limit dB | Over | |
|-----|--------|--------------|--------------------------|--------------|--------------------------|-------------|----------|---------|
| | | | | | | | Detector | Comment |
| 1 | 0.1650 | 48.09 | 0.17 | 48.26 | 65.21 | -16.95 | peak | |
| 2 | 0.1900 | 45.50 | 0.17 | 45.67 | 64.04 | -18.37 | peak | |
| 3 | 0.2100 | 41.30 | 0.16 | 41.46 | 63.21 | -21.75 | peak | |
| 4 | 0.4550 | 35.59 | 0.16 | 35.75 | 56.78 | -21.03 | peak | |
| 5 | 0.5366 | 42.30 | 0.16 | 42.46 | 56.00 | -13.54 | QP | |
| 6 * | 0.5366 | 35.60 | 0.16 | 35.76 | 46.00 | -10.24 | AVG | |
| 7 | 0.6600 | 41.04 | 0.16 | 41.20 | 56.00 | -14.80 | peak | |

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6. PEAK OUTPUT POWER MEASUREMENT

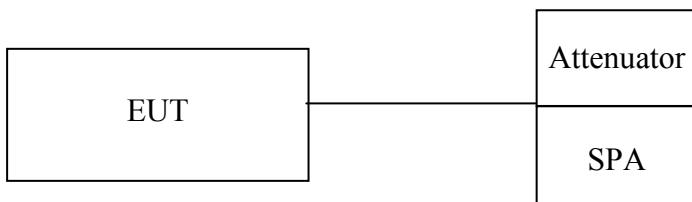
6.1. Standard Applicable

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.

6.2. Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Sensor | Anritsu | MA2411B | 917032 | 01/21/2010 | 01/20/2012 |
| Power Meter | Anritsu | ML2495A | 1005007 | 02/17/2010 | 02/16/2012 |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/19/2010 | 04/18/2012 |
| Spectrum Analyzer | Agilent | E4440A | MY45304525 | 01/25/2011 | 01/24/2012 |
| DC Block | Agilent | BLK-18 | 155452 | 07/05/2011 | 07/04/2012 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | 01/05/2011 | 01/04/2012 |
| Attenuator | Mini-Circuit | BW-S6W5 | 001 | 07/05/2011 | 07/04/2012 |
| Attenuator | Mini-Circuit | BW-S10W5 | 001 | 07/05/2011 | 07/04/2012 |
| Attenuator | Mini-Circuit | BW-S20W5 | 001 | 07/05/2011 | 07/04/2012 |
| Splitter | Agilent | 11636B | N/A | 07/05/2011 | 07/04/2012 |

6.3. Test Set-up:



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6.4. 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, >20dB bandwidth, >=RBW)
3. Record the max. reading.
4. Repeat above procedures until all frequency measured were complete.

6.5. Measurement Result

BDR mode:

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 2402.00 | 2.25 | 2.25 | 0.00168 | 1 |
| 2441.00 | 2.41 | 2.41 | 0.00174 | 1 |
| 2480.00 | 2.16 | 2.16 | 0.00164 | 1 |

EDR mode:

| Frequency (MHz) | Reading Power (dBm) | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|--------------------|------------------|-----------|
| 2402.00 | 2.26 | 2.26 | 0.00168 | 1 |
| 2441.00 | 2.44 | 2.44 | 0.00175 | 1 |
| 2480.00 | 2.08 | 2.08 | 0.00161 | 1 |

*Note: offset 0.5dB

Note: Refer to next page for plots.

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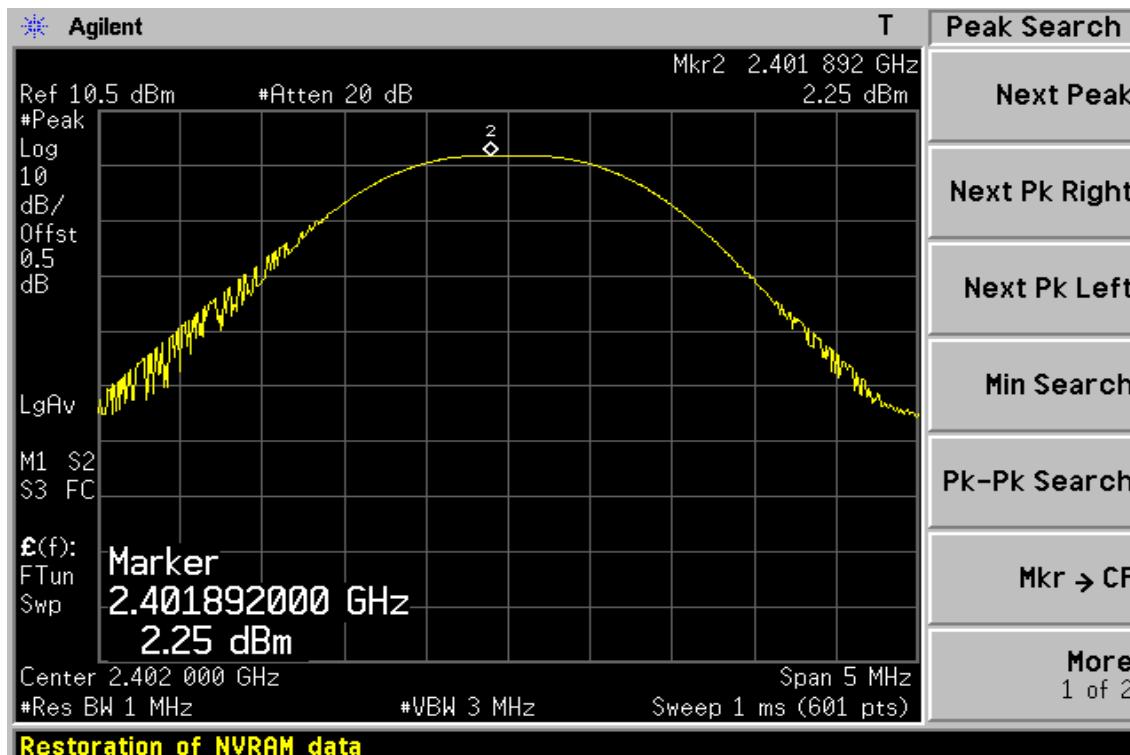
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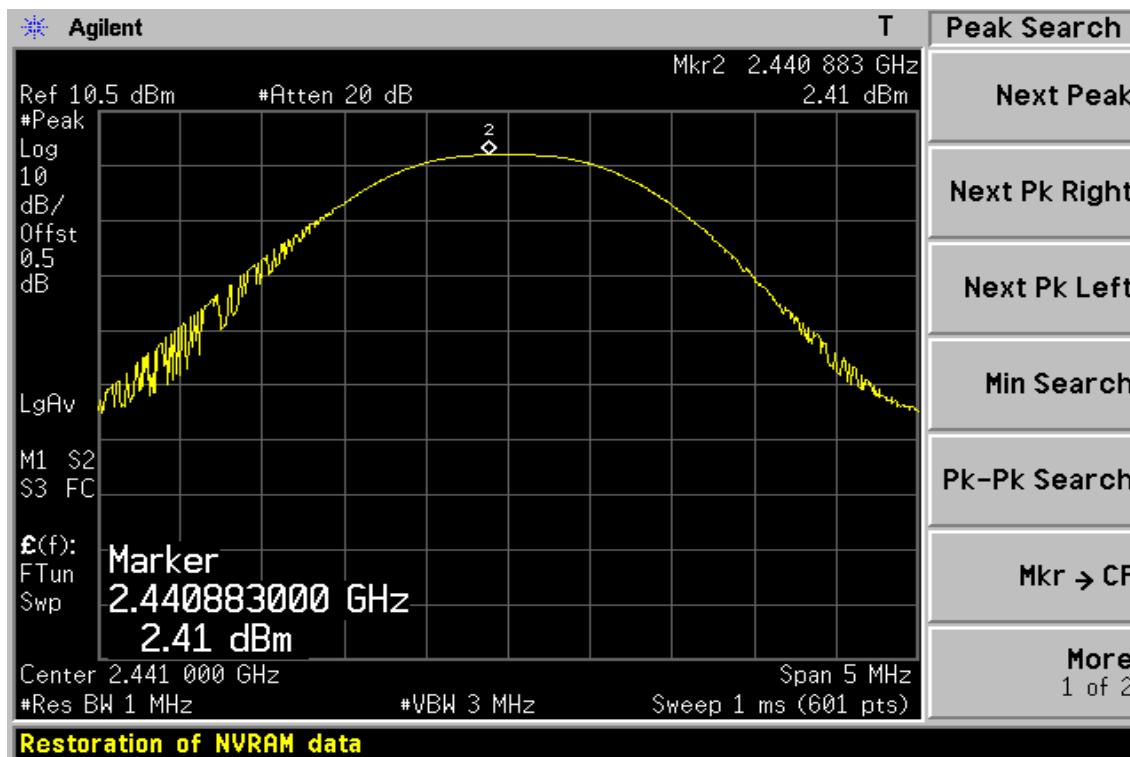
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Peak Power Output Data Plot (CH Low) (BDR mode)



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

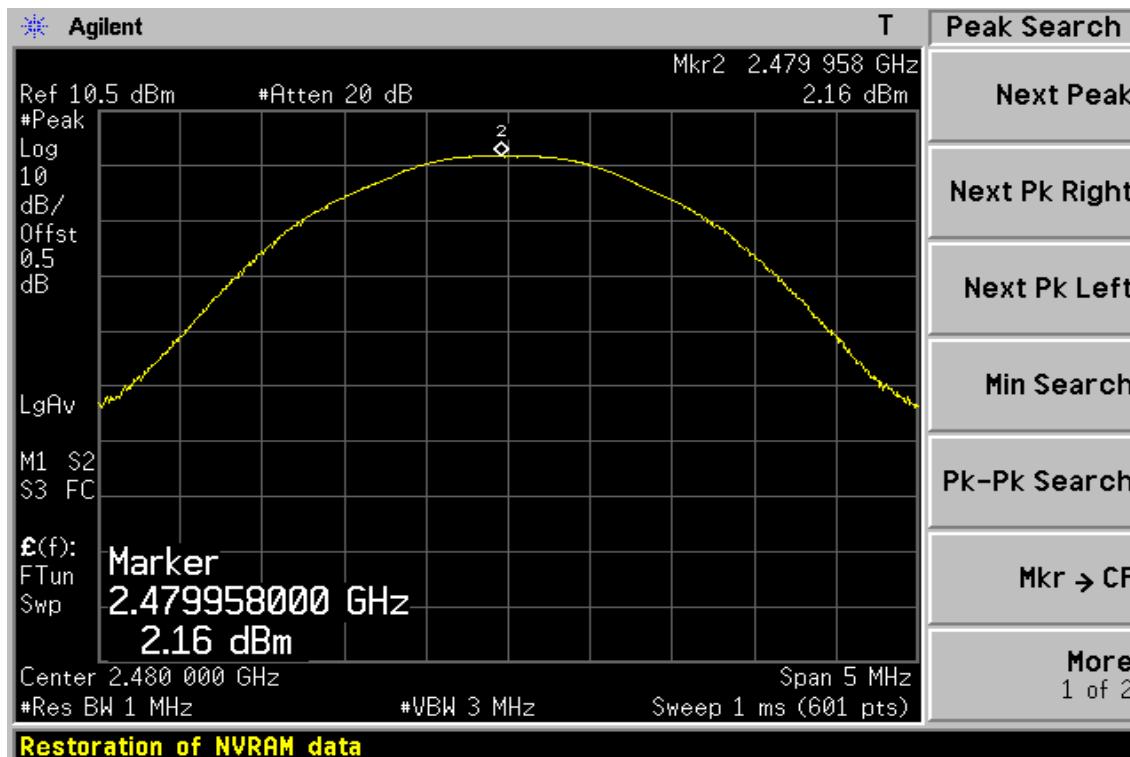


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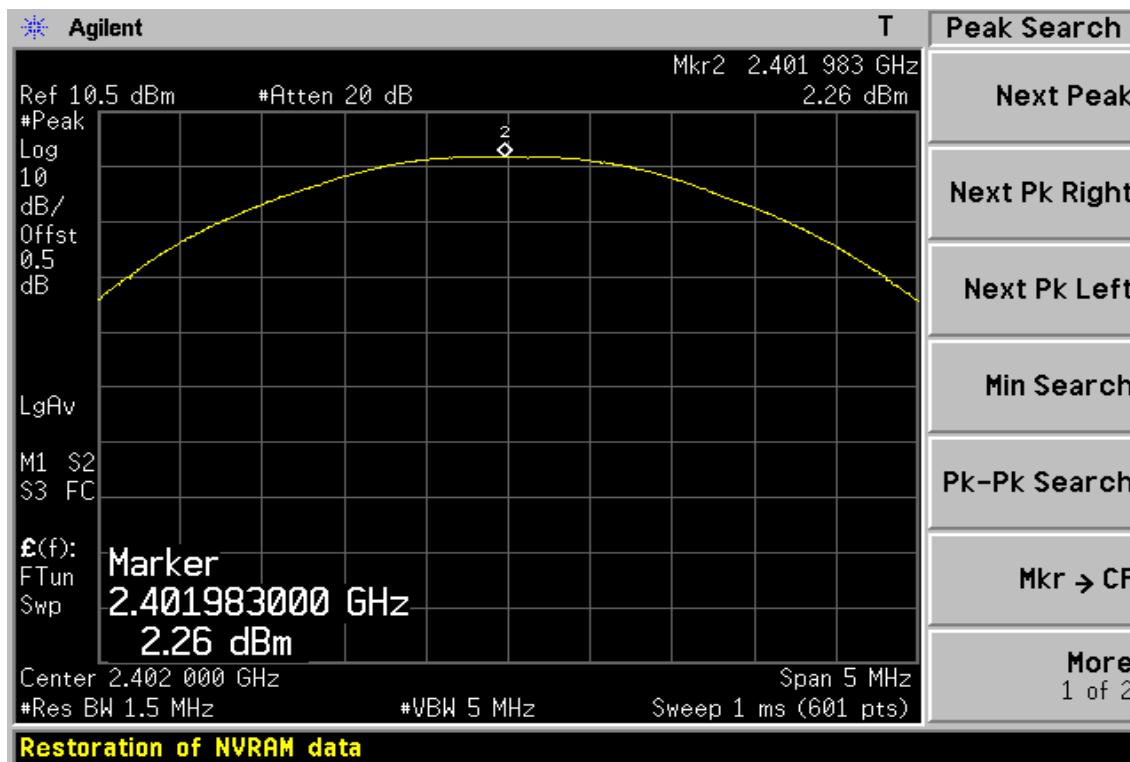
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Peak Power Output Data Plot (CH High) (BDR mode)



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

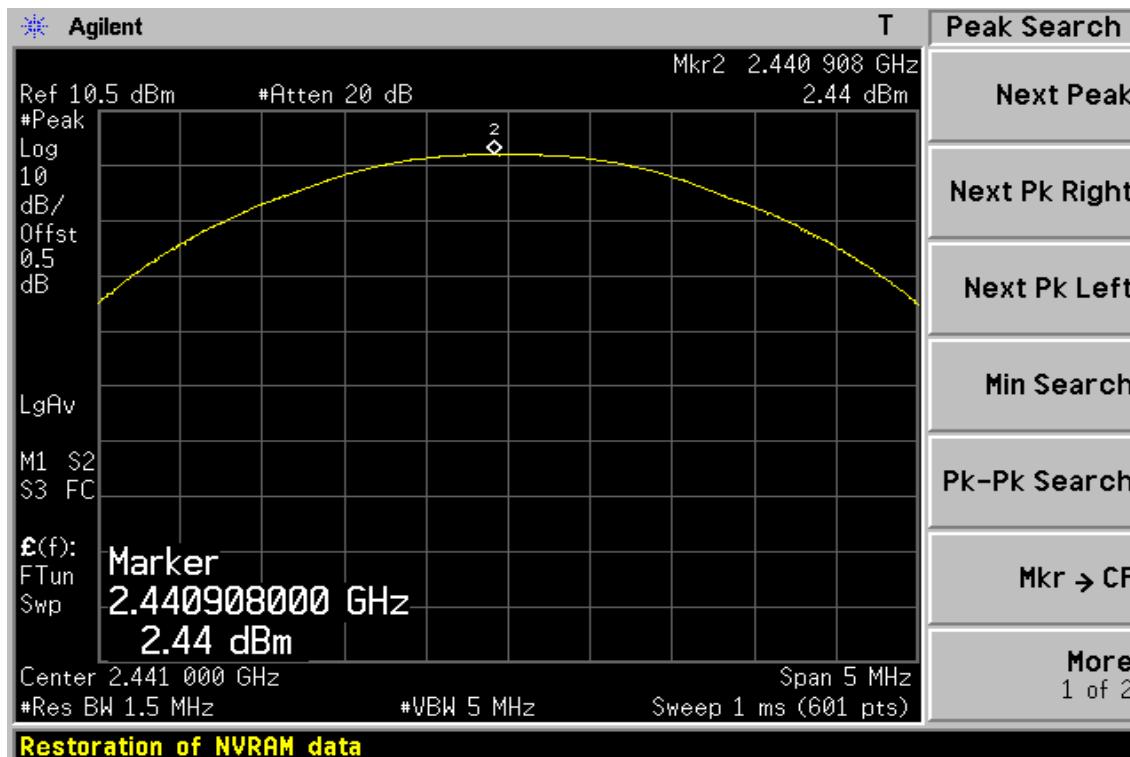


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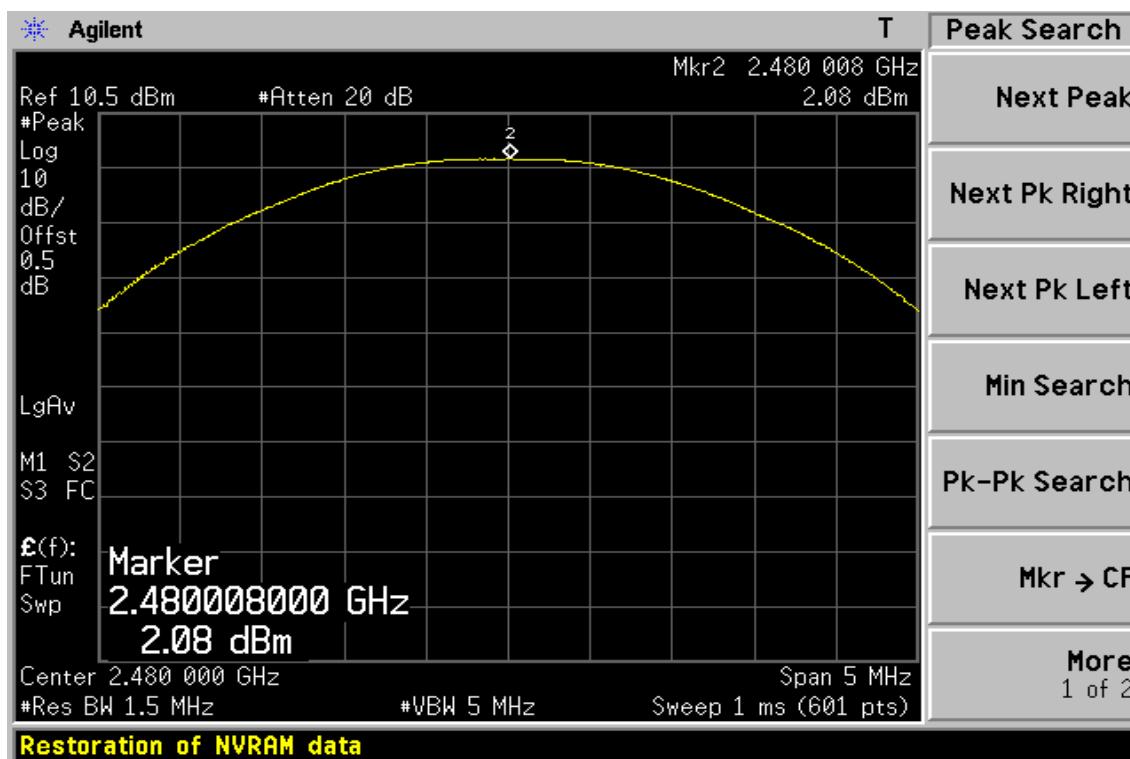
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Peak Power Output Data Plot (CH Mid) (EDR mode)



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



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7. 20dB BAND WIDTH

7.1. Standard Applicable

For frequency hopping systems operating in the 2400MHz-2483.5 MHz no limit for 20dB bandwidth.

7.2. Measurement Equipment Used

Refer to section 6.2 for details.

7.3. Test Set-up

Refer to section 6.3 for details.

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 spectrum analyzer.
3. Set the spectrum analyzer as RBW=10KHz (1 % of Bandwidth.), VBW = 3*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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7.5. Measurement Result:

BDR mode

| CH | Bandwidth (kHz) |
|--------|--------------------|
| Lower | 927.672 |
| Mid | 925.233 |
| Higher | 926.455 |

EDR mode

| CH | Bandwidth (MHz) | 2/3 Bandwidth (MHz) |
|--------|--------------------|------------------------|
| Lower | 1.234 | 0.823 |
| Mid | 1.235 | 0.823 |
| Higher | 1.243 | 0.829 |

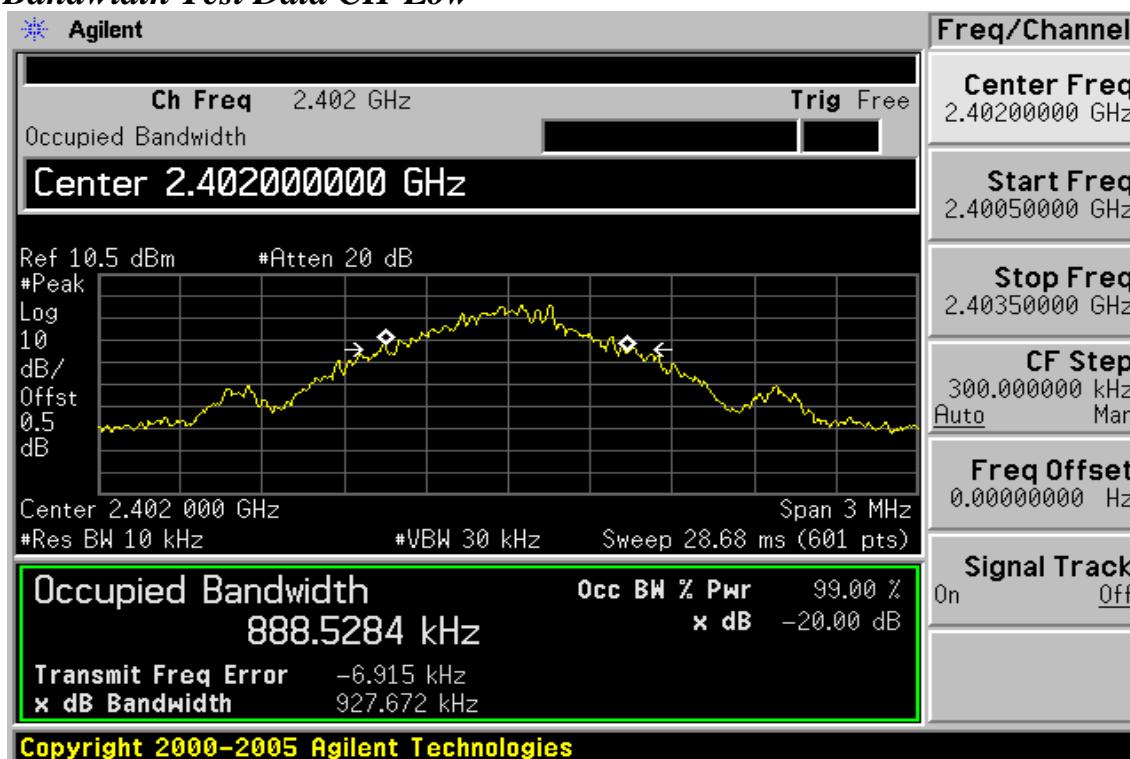
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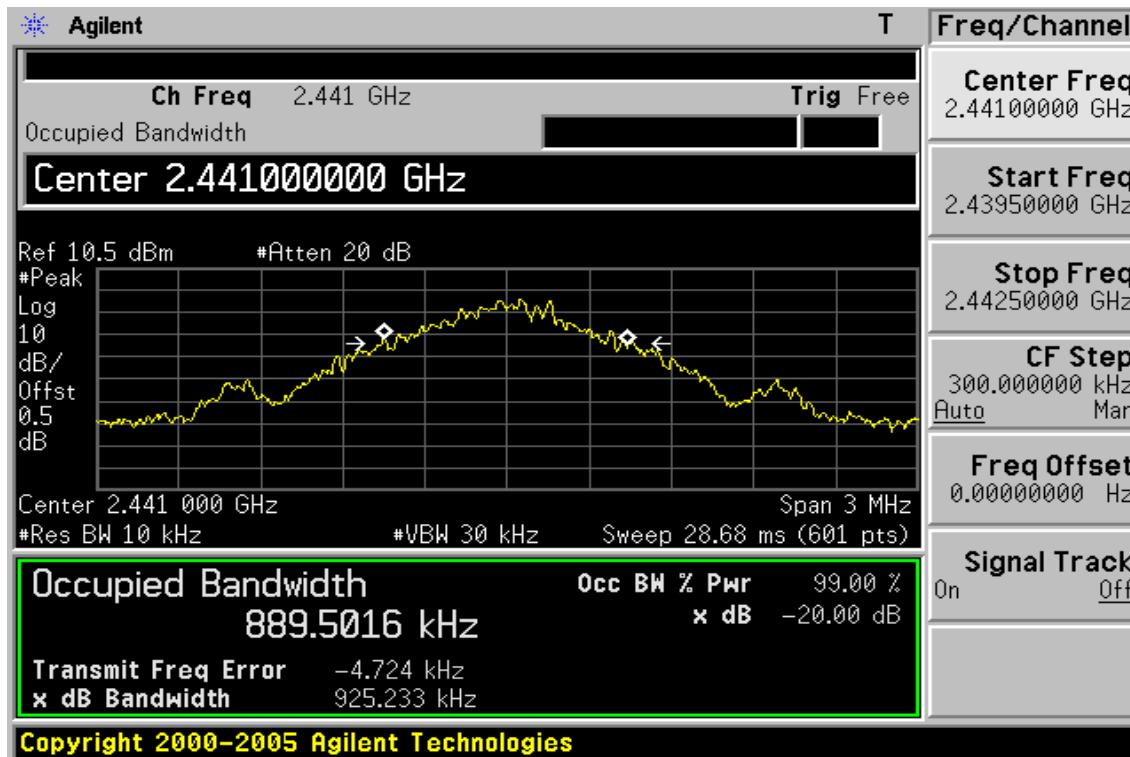
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BDR Mode

20dB Bandwidth Test Data CH-Low



20dB Bandwidth Test Data CH-Mid



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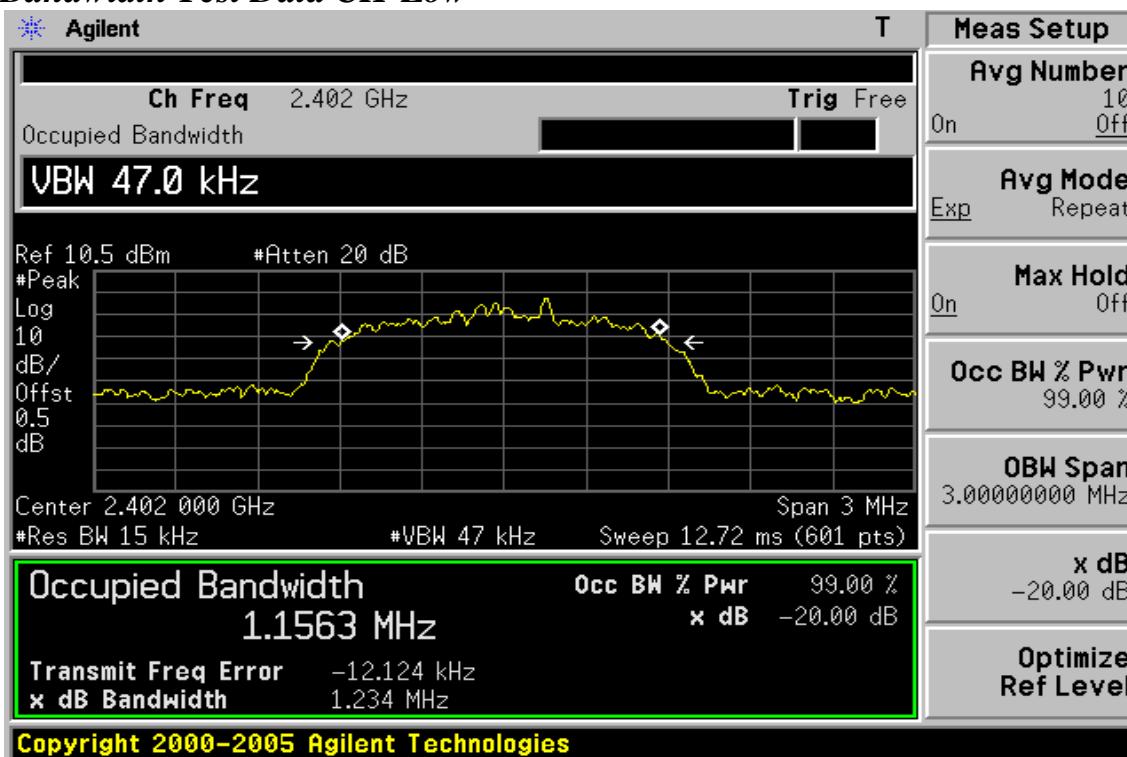
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20dB Bandwidth Test Data CH-High



EDR Mode

20dB Bandwidth Test Data CH-Low

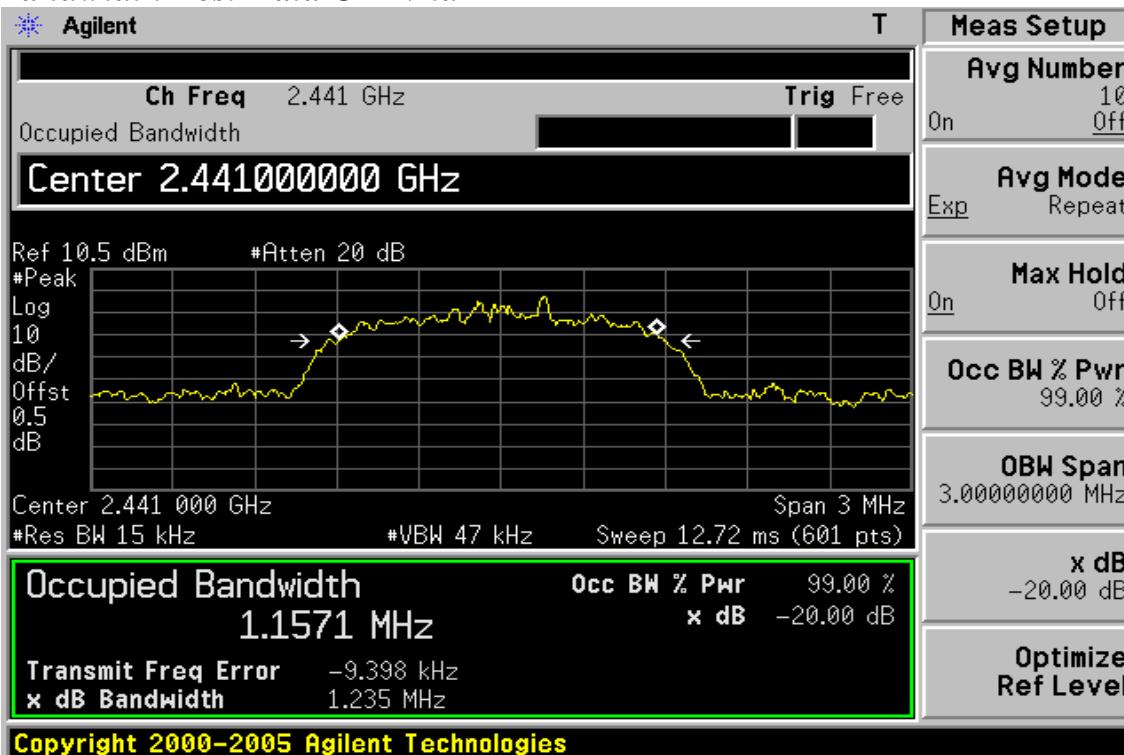


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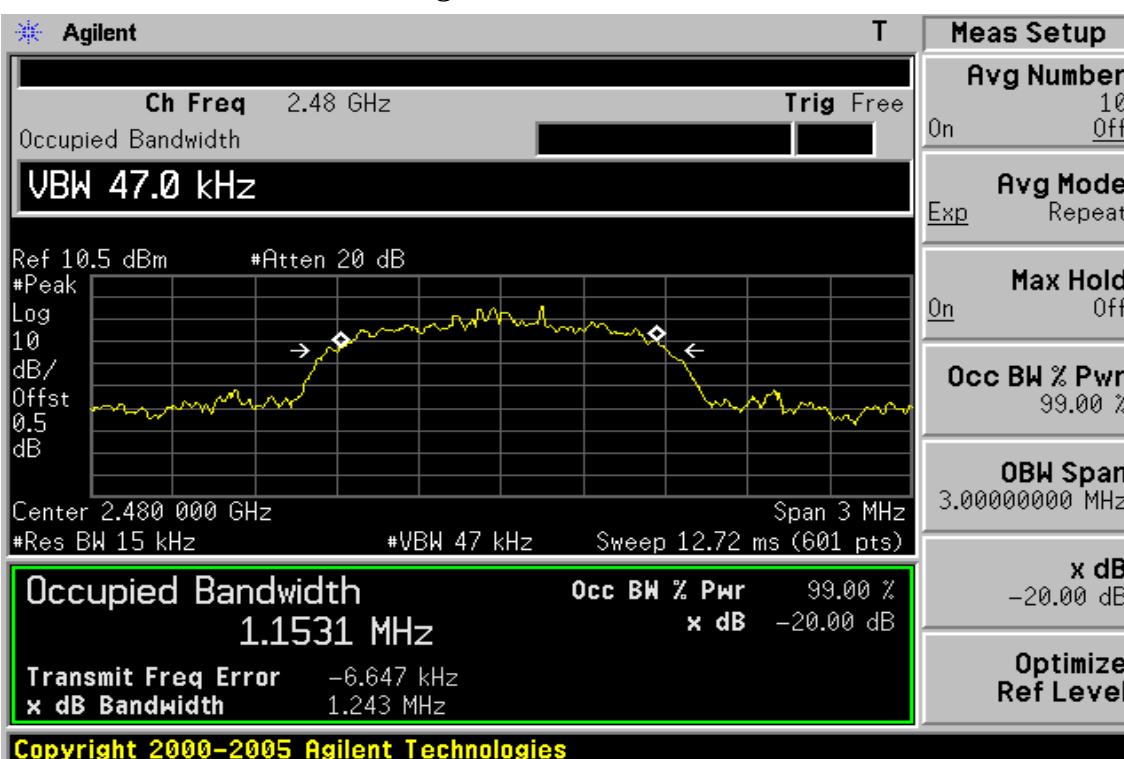
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20dB Bandwidth Test Data CH-Mid



20dB Bandwidth Test Data CH-High



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8. 100KHz BANDWIDTH OF BAND EDGES MEASUREMENT

8.1. Standard Applicable

According to §15.247(c), 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 6.2 for details.

8.2.2. Radiated emission:

| 966 Chamber | | | | | |
|-------------------|--------------|---------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | R&S | FSP 40 | 100034 | 02/12/2011 | 02/11/2012 |
| Loop antenna | MESSTECH | FLA30 | 03/10086 | 07/08/2010 | 07/07/2012 |
| Bilog Antenna | SCHWAZBECK | VULB9160 | 9160-3136 | 11/19/2010 | 11/18/2011 |
| Horn antenna | SCHWAZBECK | BBHA 9120D | 9120D-673 | 05/09/2010 | 05/08/2012 |
| Pre-Amplifier | Agilent | 8447D | 1937A02834 | 11/28/2010 | 11/27/2011 |
| Pre-Amplifier | Agilent | 8449B | 3008A01973 | 01/05/2012 | 01/04/2012 |
| 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 | SUCOFLEX 104PEA-10M | 10m | 01/05/2011 | 01/04/2012 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-3M | 3m | 01/05/2011 | 01/04/2012 |
| 3m Site | SGS | 966 chamber | N/A | 11/08/2010 | 11/09/2011 |

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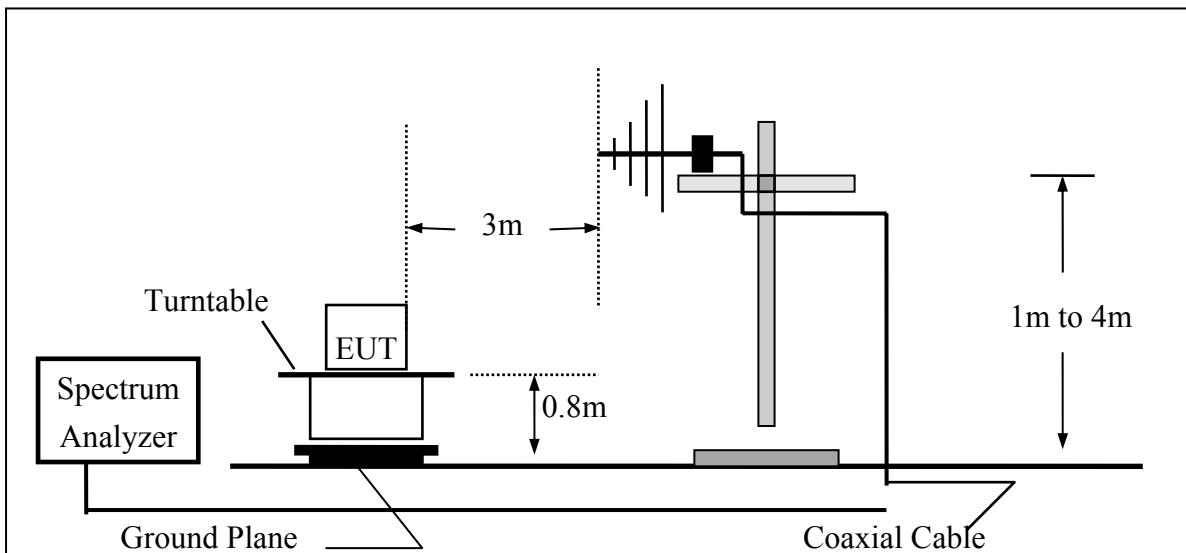
8.3. Test SET-UP:

8.3.1. Conducted Emission at antenna port:

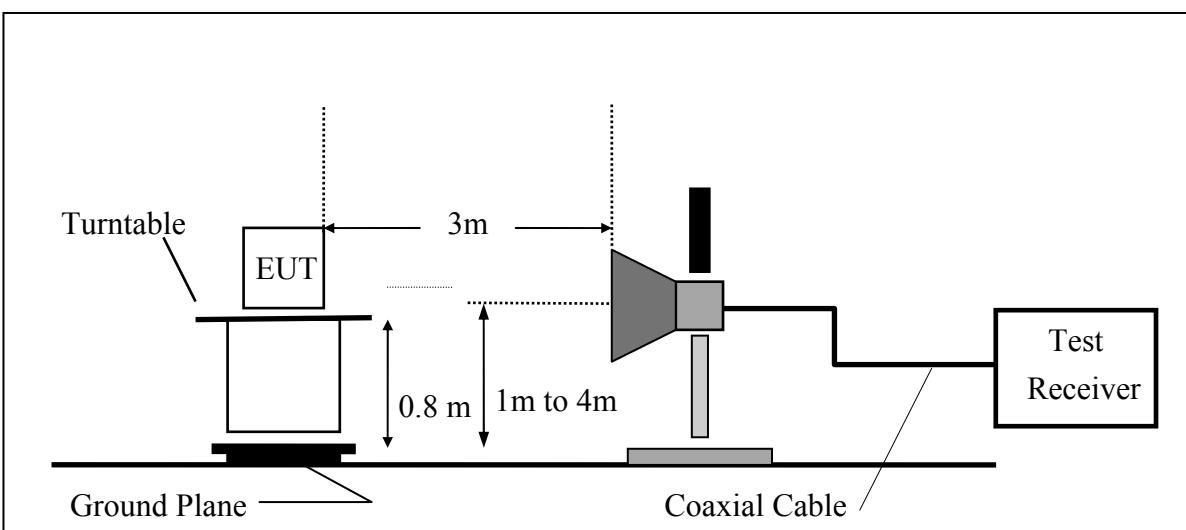
Refer to section 6.3 for details.

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=10MHz, Sweep = auto
5. Mark Peak, 2.310GHz – 2.390GHz and 2.4835GHz – 2.500GHz and record the max. level.
6. Repeat above procedures until all frequency measured were complete.
7. Radiated Emission refer to section 9.

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:

$$\mathbf{FS = RA + AF - AG}$$

| | | |
|-------|------------------------|--|
| 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.

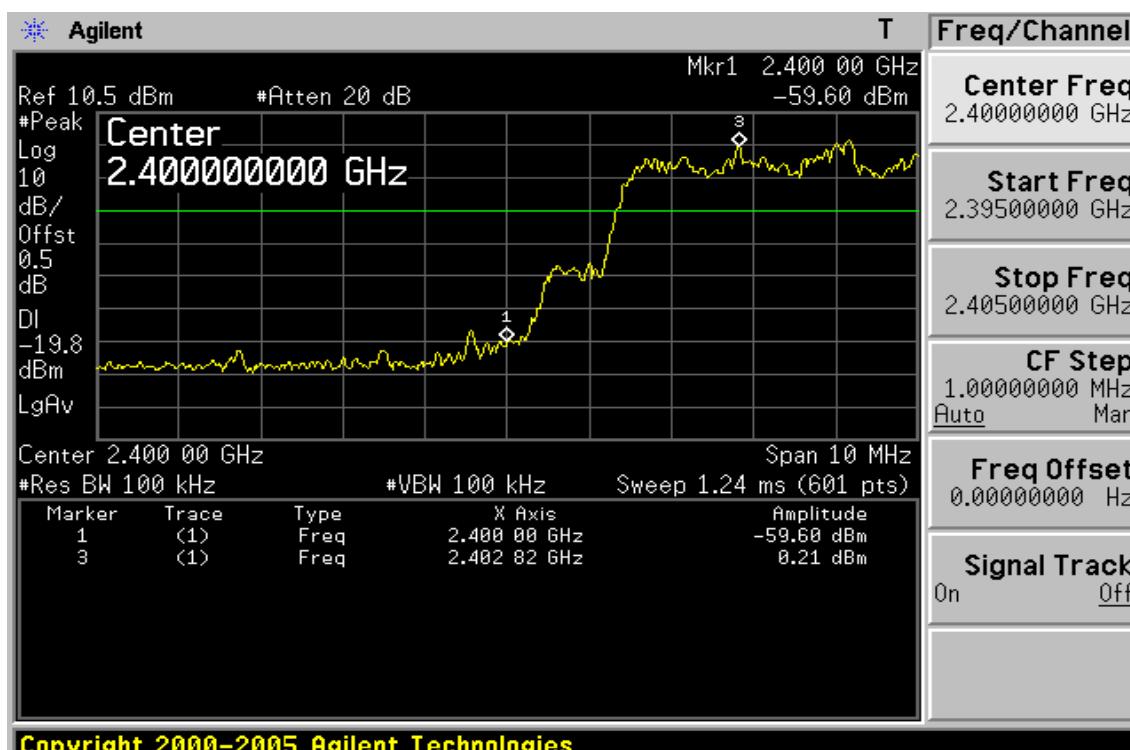
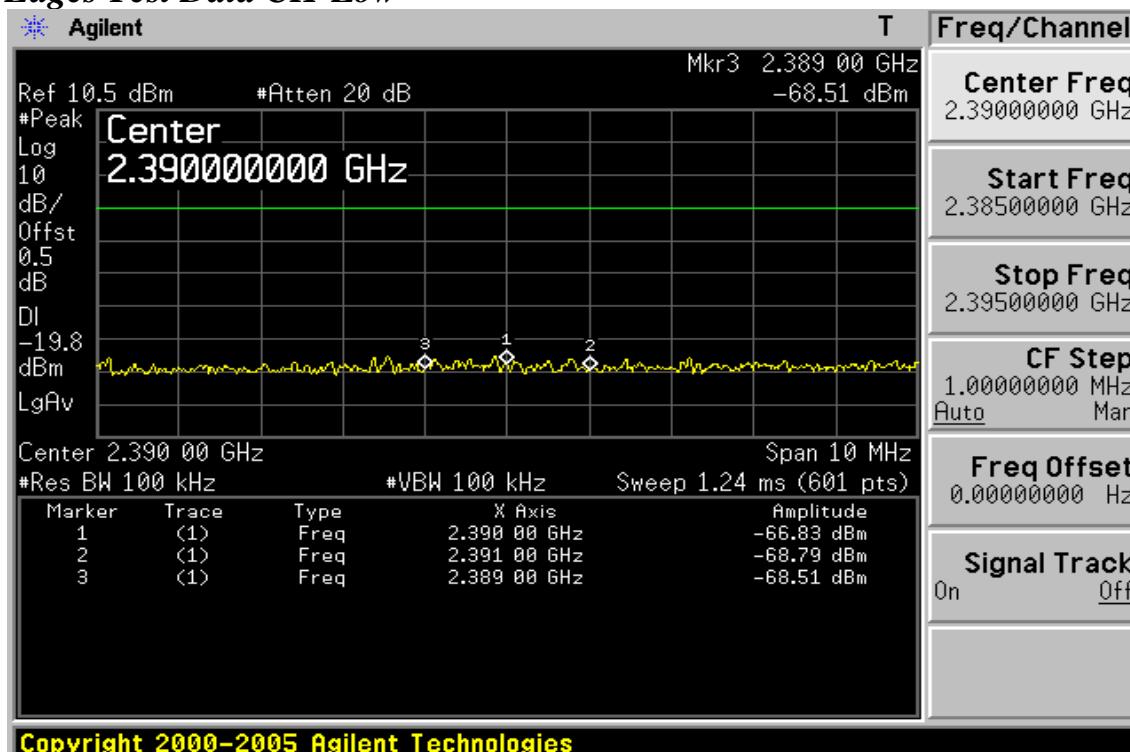
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BDR Mode

Band Edges Test Data CH-Low

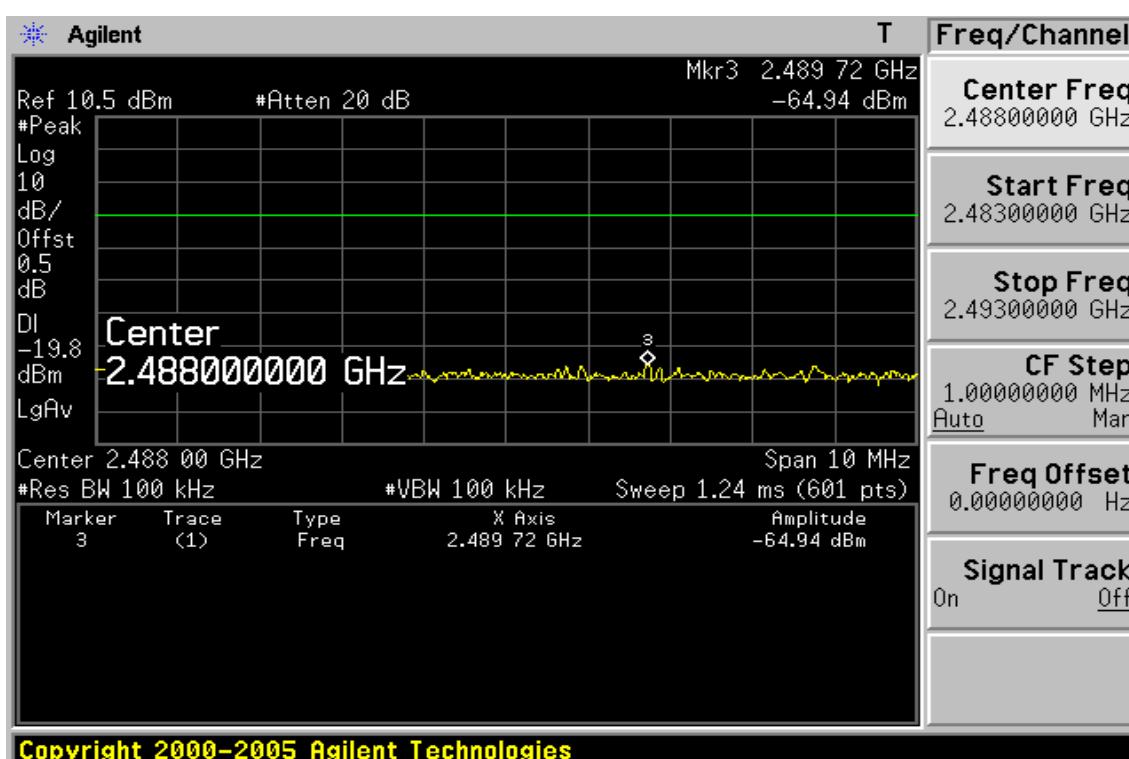
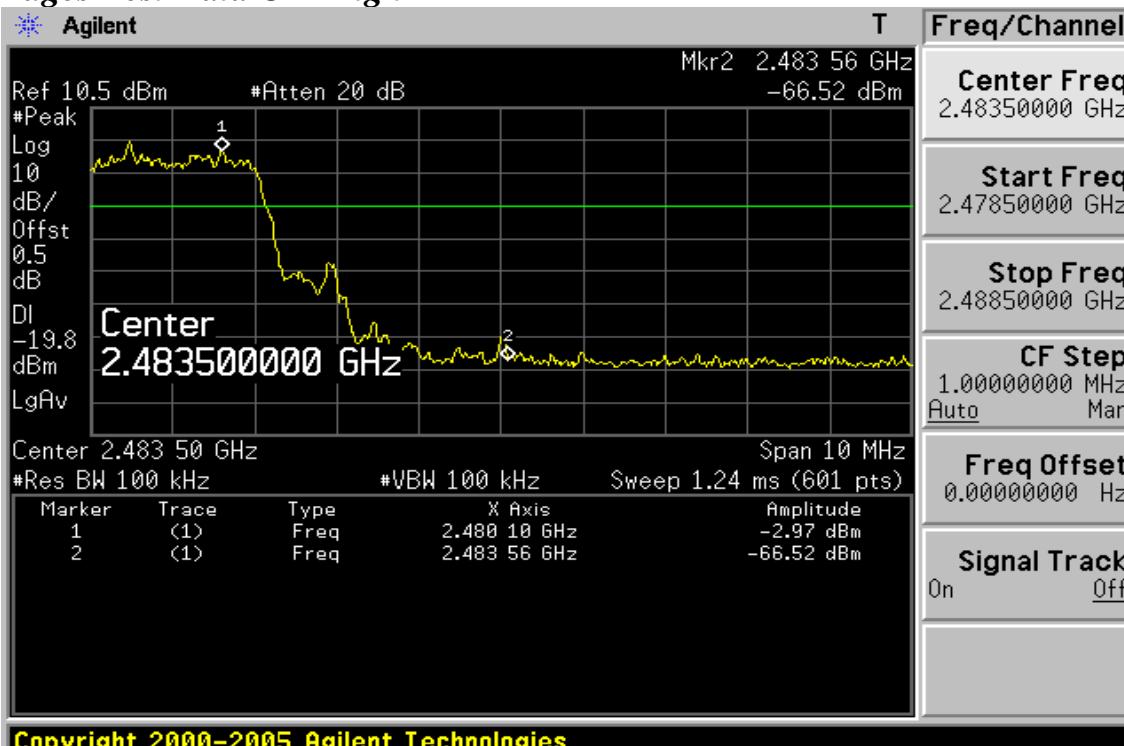


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Band Edges Test Data CH-High



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Radiated Emission: (BDR mode)

Operation Mode TX CH Low
Fundamental Frequency 2402 MHz
Temperature 25 °C
Humidity 65 %

Test Date July 25, 2011
Test By Eric
Pol Ver.

| Freq. (MHz) | Peak | AV | Actual FS | | Peak | AV | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|----------------|------------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | | |
| 2390.00 | 46.06 | --- | -1.06 | 45.00 | --- | 74.00 | 54.00 | -9.00 Peak |

Operation Mode TX CH Low
Fundamental Frequency 2402 MHz
Temperature 25
Humidity 65 %

Test Date July 25, 2011
Test By Eric
Pol Hor.

| Freq. (MHz) | Peak | AV | Actual FS | | Peak | AV | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|----------------|------------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | | |
| 2390.00 | 46.17 | --- | -1.06 | 45.11 | --- | 74.00 | 54.00 | -8.89 Peak |

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode TX CH High
Fundamental Frequency 2480 MHz
Temperature 25
Humidity 65 %

Test Date July 25, 2011
Test By Eric
Pol Ver.

| Freq. (MHz) | Peak | AV | Actual FS | | Peak | AV | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------|----------------|------------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | | | |
| 2483.50 | 47.44 | --- | -0.59 | 46.85 | --- | 74.00 | 54.00 | -7.15 Peak |

Operation Mode TX CH High
Fundamental Frequency 2480 MHz
Temperature 25
Humidity 65 %

Test Date July 25, 2011
Test By Eric
Pol Hor.

| Freq. (MHz) | Peak | AV | Actual FS | | Peak | AV | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------|----------------|------------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | | | |
| 2483.50 | 44.68 | --- | -0.59 | 44.09 | --- | 74.00 | 54.00 | -9.91 Peak |

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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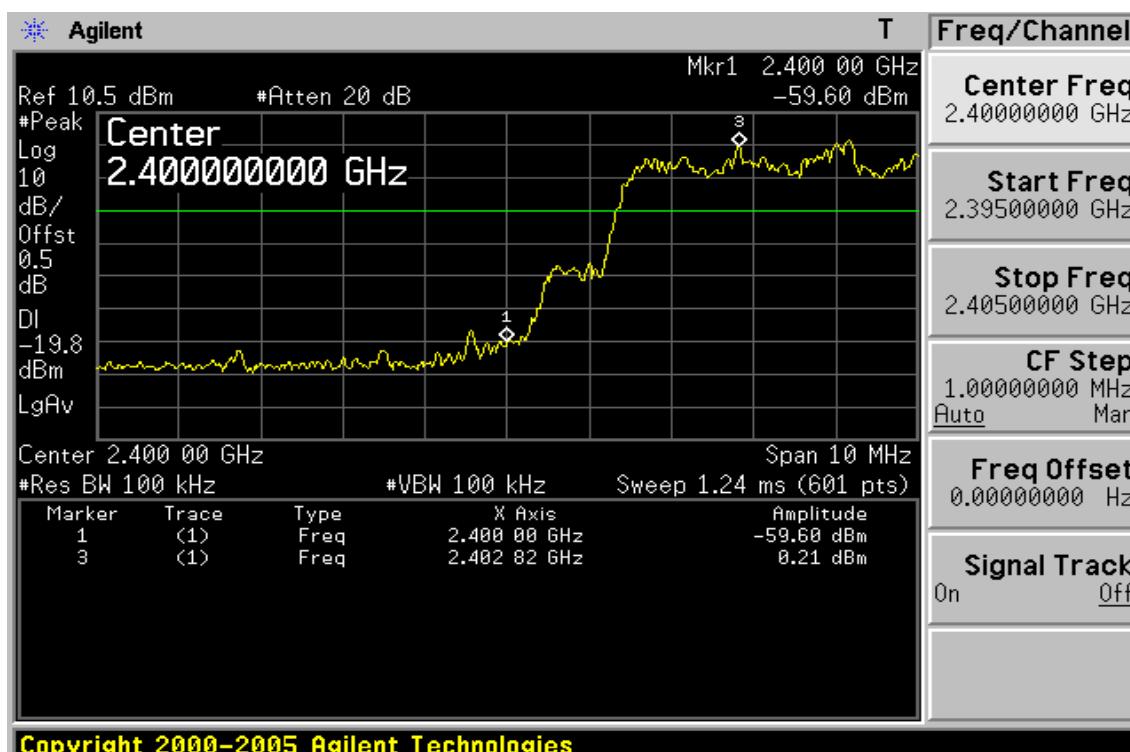
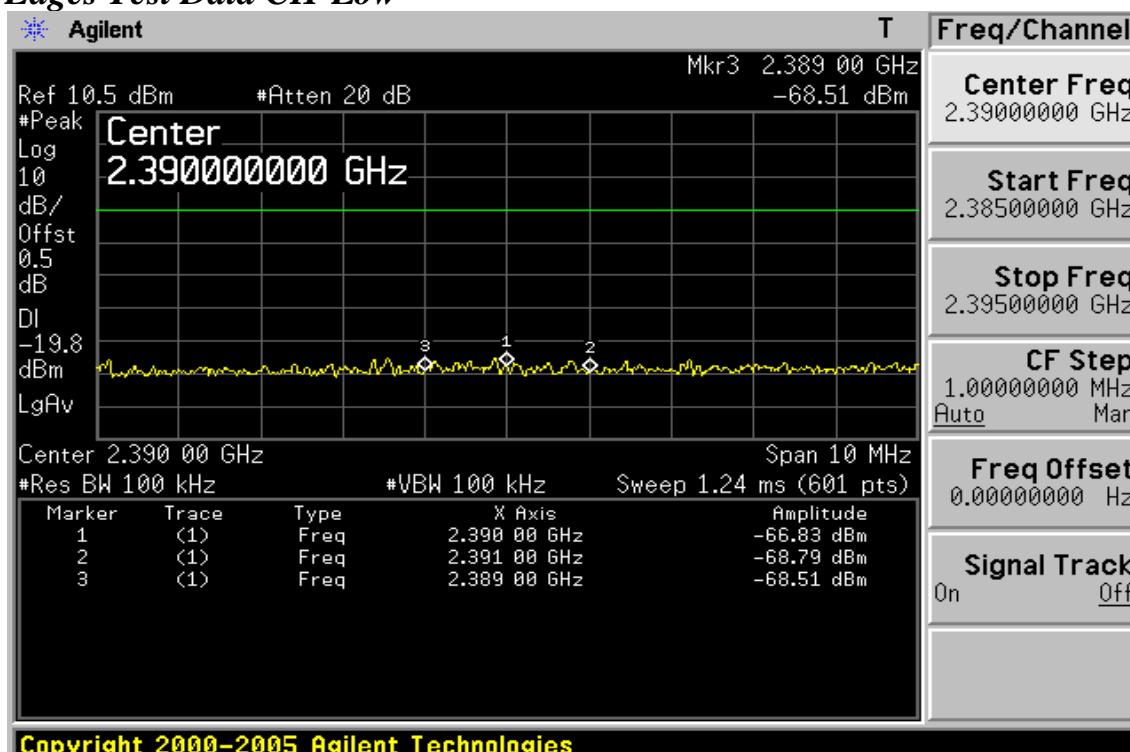
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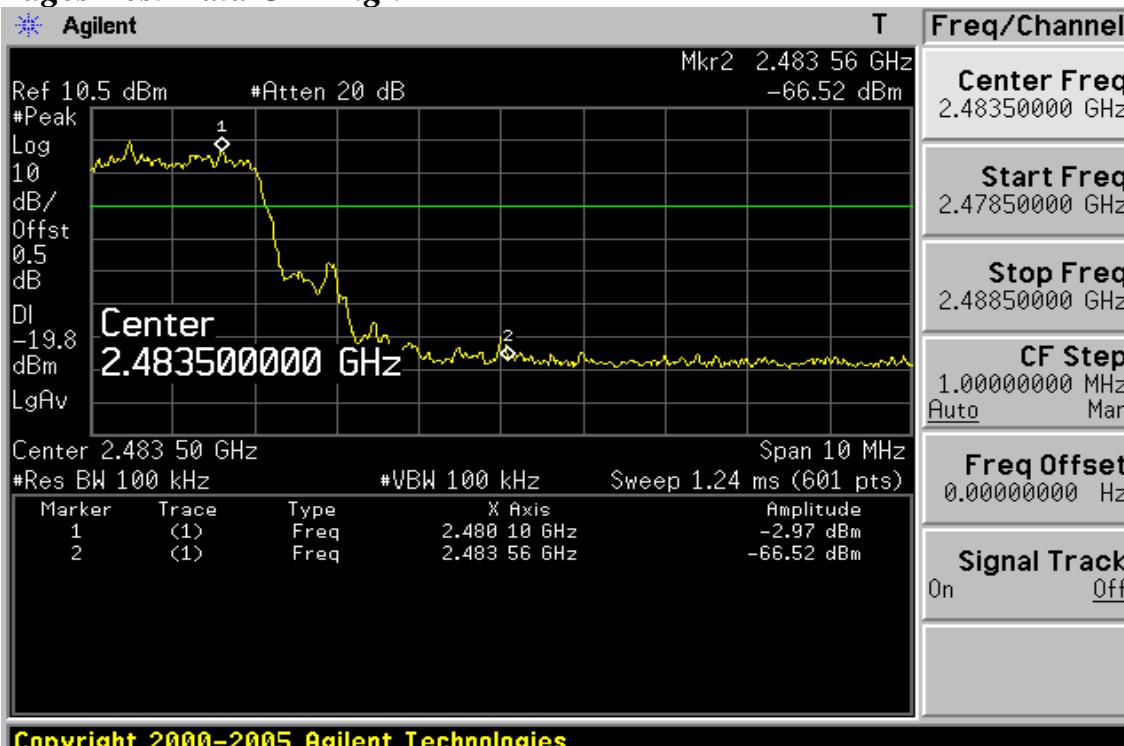
EDR Mode
Band Edges Test Data CH-Low


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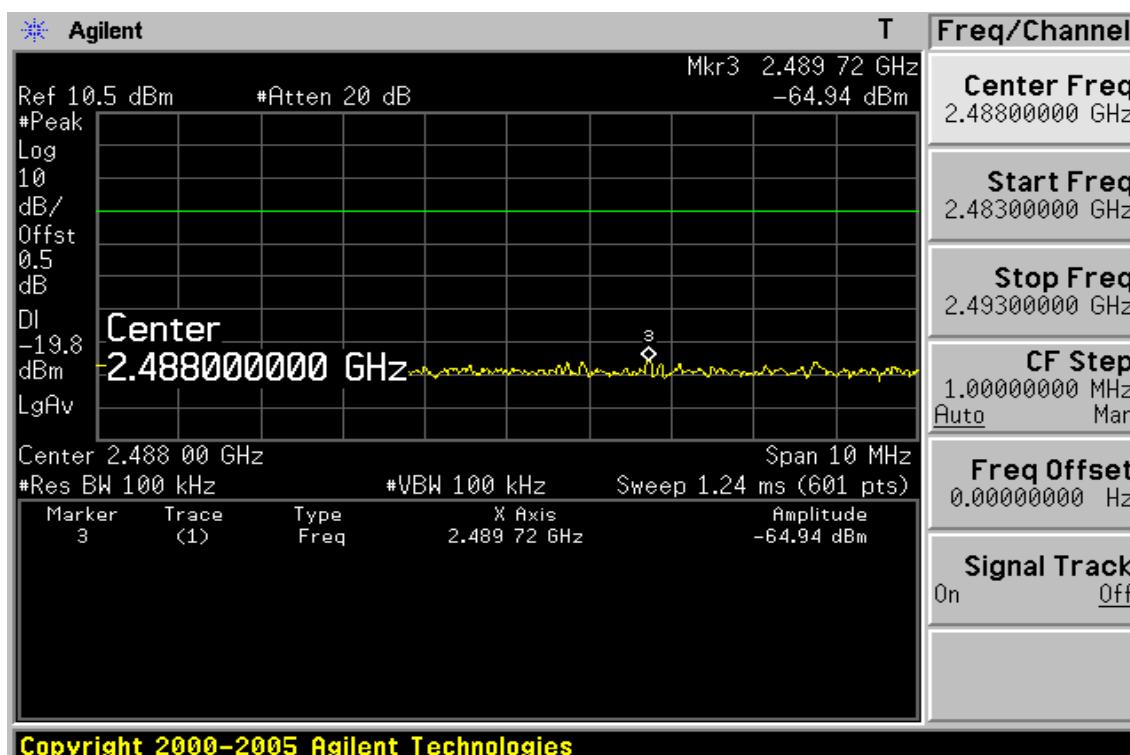
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Band Edges Test Data CH-High



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Radiated Emission: (EDR mode)

Operation Mode TX CH Low
Fundamental Frequency 2402 MHz
Temperature 25 °C
Humidity 65 %

Test Date July 25, 2011
Test By Eric
Pol Ver.

| Freq. (MHz) | Peak | AV | Actual FS | | Peak | AV | Limit | Limit | Margin | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|----------|----------|----------|--------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 2390.00 | 44.95 | --- | -1.06 | 43.89 | --- | 74.00 | 54.00 | 54.00 | -10.11 | Peak |

Operation Mode TX CH Low
Fundamental Frequency 2402 MHz
Temperature 25
Humidity 65 %

Test Date July 25, 2011
Test By Eric
Pol Hor.

| Freq. (MHz) | Peak | AV | Actual FS | | Peak | AV | Limit | Limit | Margin | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|----------|----------|----------|--------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 2390.00 | 45.10 | --- | -1.06 | 44.04 | --- | 74.00 | 54.00 | 54.00 | -9.96 | Peak |

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode TX CH High
 Fundamental Frequency 2480 MHz
 Temperature 25
 Humidity 65 %

Test Date July 25, 2011
 Test By Eric
 Pol Ver.

| Freq. (MHz) | Peak | AV | Actual FS | | Peak | AV | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|----------------|------------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | | |
| 2483.50 | 45.04 | --- | -0.59 | 44.45 | --- | 74.00 | 54.00 | -9.55 Peak |

Operation Mode TX CH High
 Fundamental Frequency 2480 MHz
 Temperature 25
 Humidity 65 %

Test Date July 25, 2011
 Test By Eric
 Pol Hor.

| Freq. (MHz) | Peak | AV | Actual FS | | Peak | AV | Margin (dB) | Remark |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|----------------|------------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | | |
| 2483.50 | 46.12 | --- | -0.59 | 45.53 | --- | 74.00 | 54.00 | -8.47 Peak |

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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9. SPURIOUS RADIATED 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 6.2 for details.

9.2.2. Radiated emission:

Refer to section 7.2 for details.

9.3. Test SET-UP:

9.3.1. Conducted Emission at antenna port:

Refer to section 6.3 for details.

9.3.2. Radiated emission:

Refer to section 7.3 for details.

9.4. Measurement Procedure:

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.

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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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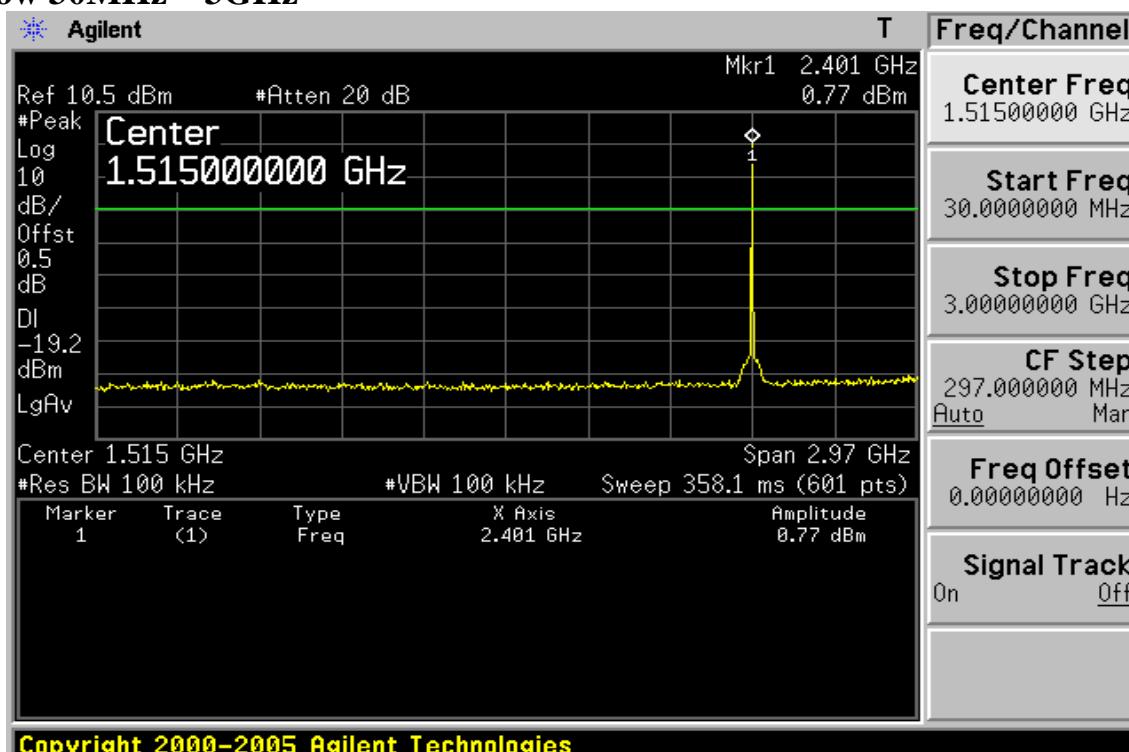
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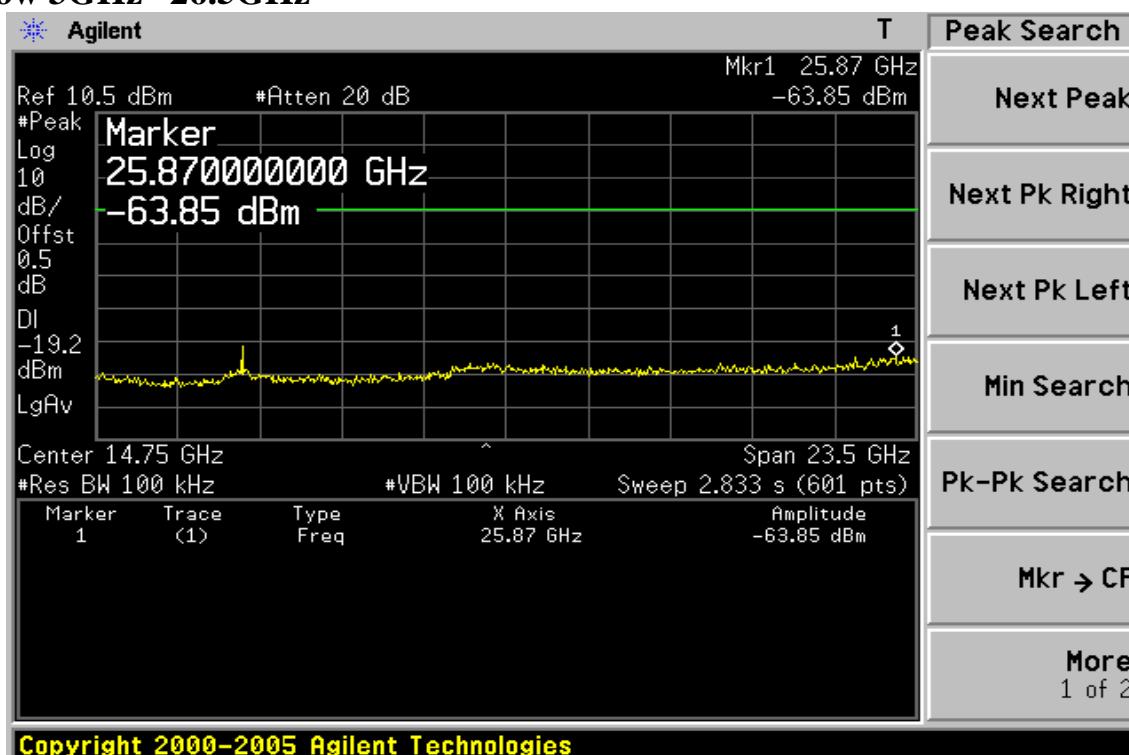
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EDR Mode Conducted Spurious Emission Measurement Result

Ch Low 30MHz – 3GHz



Ch Low 3GHz –26.5GHz



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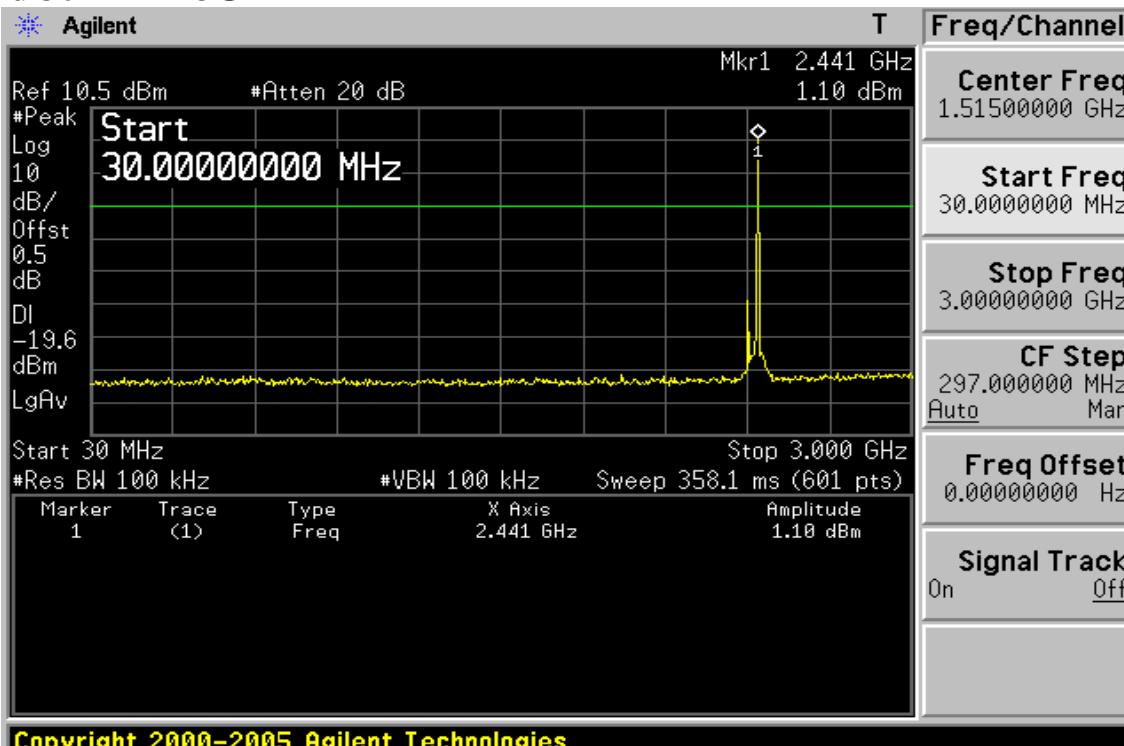
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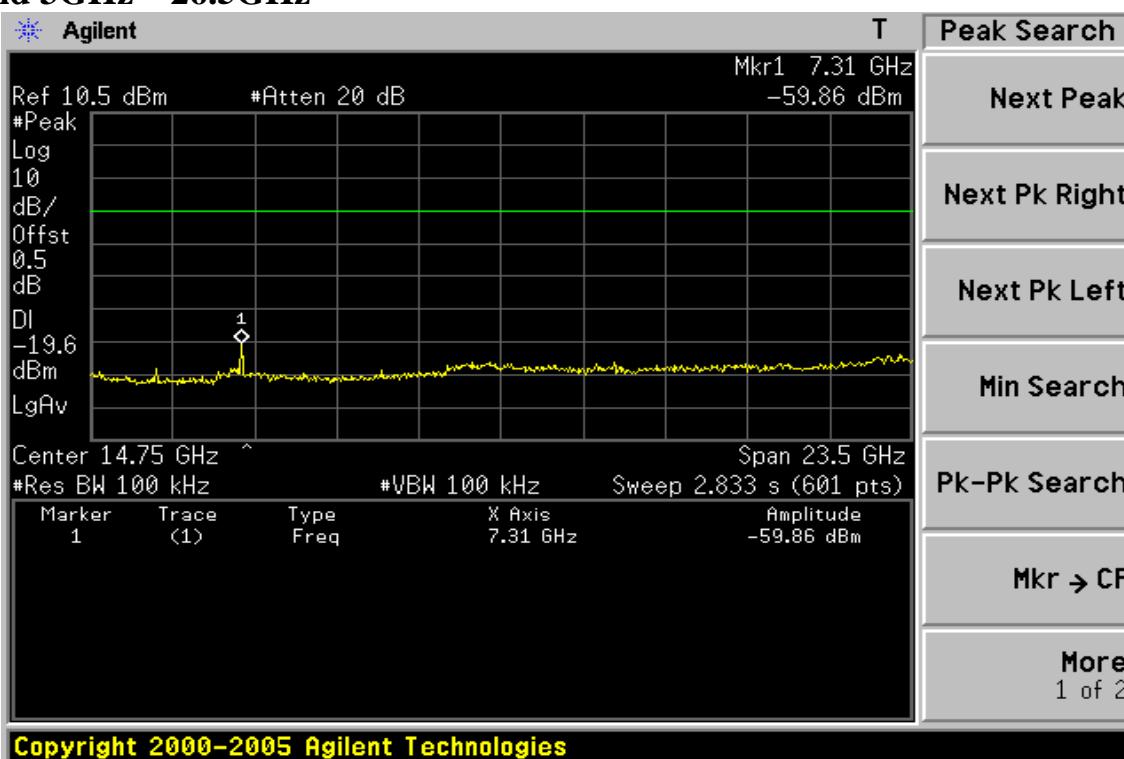
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Ch Mid 30MHz – 3GHz



Ch Mid 3GHz – 26.5GHz

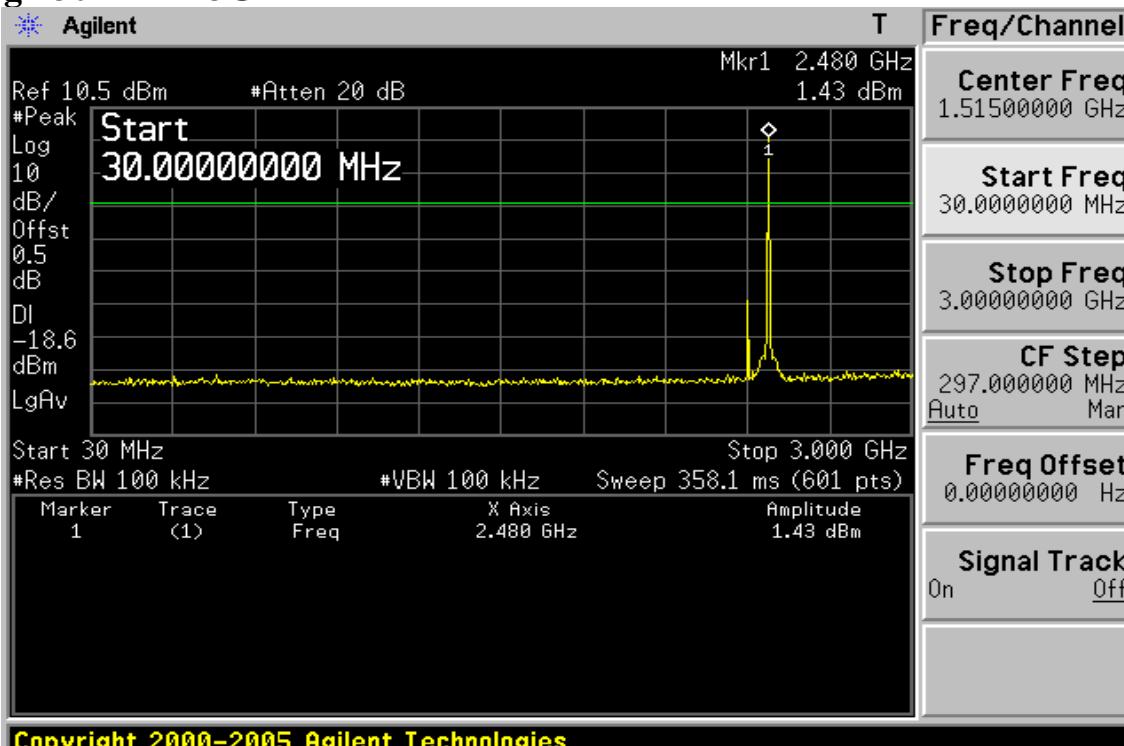


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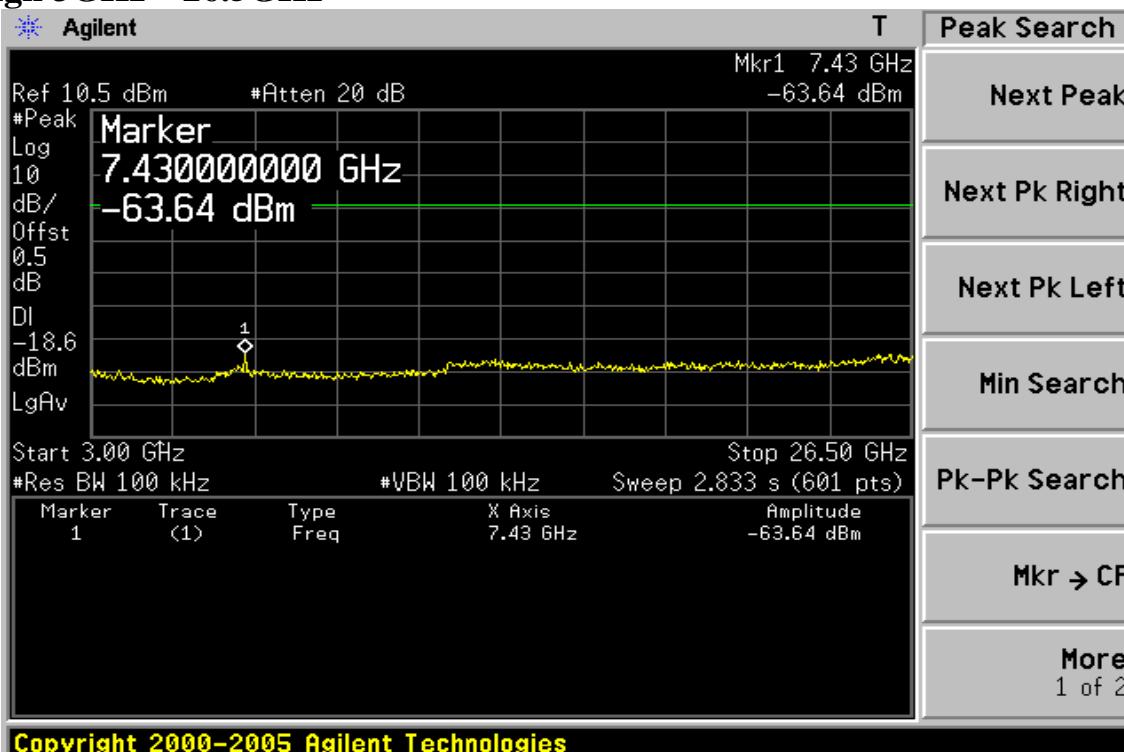
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Ch High 30MHz – 3GHz



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Ch High 3GHz – 26.5GHz



Copyright 2000-2005 Agilent Technologies

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Radiated Spurious Emission Measurement Result (below 1GHz) (Worst EDR mode)

| | | | |
|-----------------------|-----------|-----------|---------------|
| Operation Mode | TX CH Low | Test Date | July 25, 2011 |
| Fundamental Frequency | 2402MHz | Test By | Eric |
| Temperature | 25 | Pol | Ver./Hor. |
| Humidity | 65 % | | |

| Freq. (MHz) | Ant.Pol. H/V | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limit3m (dBuV/m) | Safe Margin (dB) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|---------------------|---------------------|
| 30.00 | V | Peak | 46.60 | -14.97 | 31.63 | 40.00 | -8.37 |
| 90.14 | V | Peak | 44.71 | -17.62 | 27.09 | 43.50 | -16.41 |
| 277.35 | V | Peak | 42.08 | -13.35 | 28.73 | 46.00 | -17.27 |
| 481.05 | V | Peak | 37.72 | -8.56 | 29.16 | 46.00 | -16.84 |
| 648.86 | V | Peak | 32.90 | -4.97 | 27.93 | 46.00 | -18.07 |
| 837.04 | V | Peak | 32.41 | -2.22 | 30.19 | 46.00 | -15.81 |
| 37.76 | H | Peak | 44.26 | -14.24 | 30.02 | 40.00 | -9.98 |
| 90.14 | H | Peak | 44.29 | -17.62 | 26.67 | 43.50 | -16.83 |
| 277.35 | H | Peak | 40.07 | -13.35 | 26.72 | 46.00 | -19.28 |
| 464.56 | H | Peak | 33.55 | -8.54 | 25.01 | 46.00 | -20.99 |
| 650.80 | H | Peak | 33.87 | -4.96 | 28.91 | 46.00 | -17.09 |
| 864.20 | H | Peak | 32.49 | -1.69 | 30.80 | 46.00 | -15.20 |

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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 Mode TX CH Mid
 Fundamental Frequency 2441MHz
 Temperature 25
 Humidity 65 %

Test Date July 25, 2011
 Test By Eric
 Pol Ver./Hor.

| Freq. (MHz) | Ant.Pol. H/V | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limit3m (dBuV/m) | Safe Margin (dB) |
|------------------------|-------------------------|--------------------------------------|---------------------------|------------------------|-------------------------------|-----------------------------|-----------------------------|
| 105.66 | V | Peak | 43.46 | -16.56 | 26.90 | 43.50 | -16.60 |
| 277.35 | V | Peak | 41.53 | -13.35 | 28.18 | 46.00 | -17.82 |
| 471.35 | V | Peak | 35.42 | -8.55 | 26.87 | 46.00 | -19.13 |
| 536.34 | V | Peak | 37.86 | -7.92 | 29.94 | 46.00 | -16.06 |
| 742.95 | V | Peak | 32.72 | -4.39 | 28.33 | 46.00 | -17.67 |
| 844.80 | V | Peak | 32.98 | -2.08 | 30.90 | 46.00 | -15.10 |
| 37.76 | H | Peak | 43.72 | -14.24 | 29.48 | 40.00 | -10.52 |
| 93.05 | H | Peak | 43.49 | -17.35 | 26.14 | 43.50 | -17.36 |
| 277.35 | H | Peak | 39.44 | -13.35 | 26.09 | 46.00 | -19.91 |
| 427.70 | H | Peak | 34.50 | -9.19 | 25.31 | 46.00 | -20.69 |
| 561.56 | H | Peak | 34.95 | -7.28 | 27.67 | 46.00 | -18.33 |
| 749.74 | H | Peak | 36.41 | -4.30 | 32.11 | 46.00 | -13.89 |

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Operation Mode TX CH High
 Fundamental Frequency 2480MHz
 Temperature 25
 Humidity 65 %

Test Date July 25, 2011
 Test By Eric
 Pol Ver./Hor.

| Freq. (MHz) | Ant.Pol. H/V | Detector Mode (PK/QP) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limit3m (dBuV/m) | Safe Margin (dB) |
|------------------------|-------------------------|--------------------------------------|---------------------------|------------------------|-------------------------------|-----------------------------|-----------------------------|
| 95.96 | V | Peak | 44.74 | -17.21 | 27.53 | 43.50 | -15.97 |
| 277.35 | V | Peak | 41.61 | -13.35 | 28.26 | 46.00 | -17.74 |
| 435.46 | V | Peak | 34.82 | -8.90 | 25.92 | 46.00 | -20.08 |
| 497.54 | V | Peak | 36.75 | -8.51 | 28.24 | 46.00 | -17.76 |
| 697.36 | V | Peak | 33.91 | -5.05 | 28.86 | 46.00 | -17.14 |
| 895.24 | V | Peak | 32.30 | -1.13 | 31.17 | 46.00 | -14.83 |
| 30.00 | H | Peak | 44.96 | -14.97 | 29.99 | 40.00 | -10.01 |
| 102.75 | H | Peak | 43.48 | -16.78 | 26.70 | 43.50 | -16.80 |
| 287.05 | H | Peak | 39.61 | -13.25 | 26.36 | 46.00 | -19.64 |
| 495.60 | H | Peak | 34.78 | -8.51 | 26.27 | 46.00 | -19.73 |
| 571.26 | H | Peak | 34.87 | -6.95 | 27.92 | 46.00 | -18.08 |
| 728.40 | H | Peak | 35.04 | -4.56 | 30.48 | 46.00 | -15.52 |

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz.
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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Radiated Spurious Emission Measurement Result (above 1GHz) (Worst EDR mode)

| | | | |
|-----------------------|-----------|-----------|---------------|
| Operation Mode | TX CH Low | Test Date | July 25, 2011 |
| Fundamental Frequency | 2402 MHz | Test By | Eric |
| Temperature | 25 | Pol | Ver. |
| Humidity | 65 % | | |

| Freq. (MHz) | Peak | AV | Actual FS | | Peak | AV | Margin (dB) | |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | |
| 4804.0 | 34.25 | --- | 6.02 | 40.27 | --- | 74.00 | 54.00 | -13.73 |
| 7206.0 | ---- | | | | | 74.00 | 54.00 | |
| 9608.0 | ---- | | | | | 74.00 | 54.00 | |
| 12010.0 | ---- | | | | | 74.00 | 54.00 | |
| 14412.0 | ---- | | | | | 74.00 | 54.00 | |
| 16814.0 | ---- | | | | | 74.00 | 54.00 | |
| 19216.0 | ---- | | | | | 74.00 | 54.00 | |
| 21618.0 | ---- | | | | | 74.00 | 54.00 | |
| 24020.0 | ---- | | | | | 74.00 | 54.00 | |

Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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f (886-2) 2298-0488

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Member of SGS Group

Operation Mode TX CH Low
Fundamental Frequency 2402 MHz
Temperature 25
Humidity 65 %

Test Date July 25, 2011
Test By Eric
Pol Hor.

| Freq. (MHz) | Peak | AV | Actual FS | | Peak | AV | Margin (dB) | |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | |
| 4804.0 | 33.14 | --- | 6.02 | 39.16 | --- | 74.00 | 54.00 | -14.84 |
| 7206.0 | ---- | | | | | 74.00 | 54.00 | |
| 9608.0 | ---- | | | | | 74.00 | 54.00 | |
| 12010.0 | ---- | | | | | 74.00 | 54.00 | |
| 14412.0 | ---- | | | | | 74.00 | 54.00 | |
| 16814.0 | ---- | | | | | 74.00 | 54.00 | |
| 19216.0 | ---- | | | | | 74.00 | 54.00 | |
| 21618.0 | ---- | | | | | 74.00 | 54.00 | |
| 24020.0 | ---- | | | | | 74.00 | 54.00 | |

Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode TX CH Mid
Fundamental Frequency 2441 MHz
Temperature 25
Humidity 65 %

Test Date July 25, 2011
Test By Eric
Pol Ver.

| Freq. (MHz) | Peak | AV | Actual FS | | | Peak | AV | Margin (dB) |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|----------------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | |
| 4882.0 | 34.01 | --- | 6.17 | 40.18 | --- | 74.00 | 54.00 | -13.82 |
| 7323.0 | ---- | | | | | 74.00 | 54.00 | |
| 9764.0 | ---- | | | | | 74.00 | 54.00 | |
| 12205.0 | ---- | | | | | 74.00 | 54.00 | |
| 14646.0 | ---- | | | | | 74.00 | 54.00 | |
| 17087.0 | ---- | | | | | 74.00 | 54.00 | |
| 19528.0 | ---- | | | | | 74.00 | 54.00 | |
| 21969.0 | ---- | | | | | 74.00 | 54.00 | |
| 24410.0 | ---- | | | | | 74.00 | 54.00 | |

Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode TX CH Mid
Fundamental Frequency 2441 MHz
Temperature 25
Humidity 65 %

Test Date July 25, 2011
Test By Eric
Pol Hor.

| Freq. (MHz) | Peak | AV | Actual FS | | | Peak | AV | Margin (dB) |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|----------------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | |
| 4882.0 | 33.34 | --- | 6.17 | 39.51 | --- | 74.00 | 54.00 | -14.49 |
| 7323.0 | ---- | | | | | 74.00 | 54.00 | |
| 9764.0 | ---- | | | | | 74.00 | 54.00 | |
| 12205.0 | ---- | | | | | 74.00 | 54.00 | |
| 14646.0 | ---- | | | | | 74.00 | 54.00 | |
| 17087.0 | ---- | | | | | 74.00 | 54.00 | |
| 19528.0 | ---- | | | | | 74.00 | 54.00 | |
| 21969.0 | ---- | | | | | 74.00 | 54.00 | |
| 24410.0 | ---- | | | | | 74.00 | 54.00 | |

Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Operation Mode TX CH High
Fundamental Frequency 2480 MHz
Temperature 25
Humidity 65 %

Test Date July 25, 2011
Test By Eric
Pol Ver.

| Freq. (MHz) | Peak | AV | Actual FS | | Peak | AV | Margin (dB) | |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | |
| 4960.0 | 33.36 | --- | 6.36 | 39.72 | --- | 74.00 | 54.00 | -14.28 |
| 7440.0 | ---- | | | | | 74.00 | 54.00 | |
| 9920.0 | ---- | | | | | 74.00 | 54.00 | |
| 12400.0 | ---- | | | | | 74.00 | 54.00 | |
| 14880.0 | ---- | | | | | 74.00 | 54.00 | |
| 17360.0 | ---- | | | | | 74.00 | 54.00 | |
| 19840.0 | ---- | | | | | 74.00 | 54.00 | |
| 22320.0 | ---- | | | | | 74.00 | 54.00 | |
| 24800.0 | ---- | | | | | 74.00 | 54.00 | |

Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Member of SGS Group

Operation Mode TX CH High
Fundamental Frequency 2480 MHz
Temperature 25
Humidity 65 %

Test Date July 25, 2011
Test By Eric
Pol Hor.

| Freq. (MHz) | Peak | AV | Actual FS | | Peak | AV | Margin (dB) | |
|----------------|-------------------|-------------------|-------------------|------------------|----------------|-------------------|-------------------|--------|
| | Reading (dBuV) | Reading (dBuV) | Ant./CL CF(dB) | Peak (dBuV/m) | AV (dBuV/m) | Limit (dBuV/m) | Limit (dBuV/m) | |
| 4960.0 | 33.12 | --- | 6.36 | 39.48 | --- | 74.00 | 54.00 | -14.52 |
| 7440.0 | ---- | | | | | 74.00 | 54.00 | |
| 9920.0 | ---- | | | | | 74.00 | 54.00 | |
| 12400.0 | ---- | | | | | 74.00 | 54.00 | |
| 14880.0 | ---- | | | | | 74.00 | 54.00 | |
| 17360.0 | ---- | | | | | 74.00 | 54.00 | |
| 19840.0 | ---- | | | | | 74.00 | 54.00 | |
| 22320.0 | ---- | | | | | 74.00 | 54.00 | |
| 24800.0 | ---- | | | | | 74.00 | 54.00 | |

Remark:

- (1) Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (4) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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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 $2/3 * 20$ dB bandwidth of the hopping channel, whichever is greater.

10.2. Measurement Equipment Used:

Refer to section 6.2 for details.

10.3. Test Set-up:

Refer to section 6.3 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 5 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 | ≥ 25 KHz or $2/3$ times 20dB bandwidth | PASS |

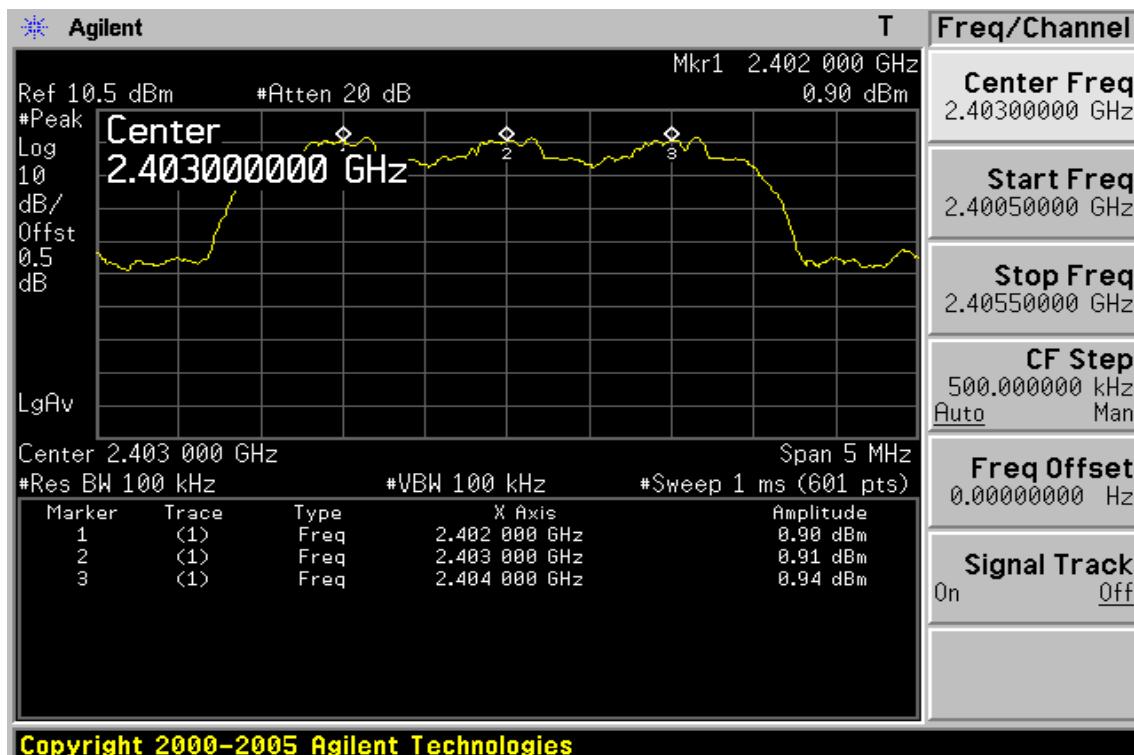
Note: Refer to next page for plots.

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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 6.2 for details.

11.3. Test Set-up:

Refer to section 6.3 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=1.3MHz.
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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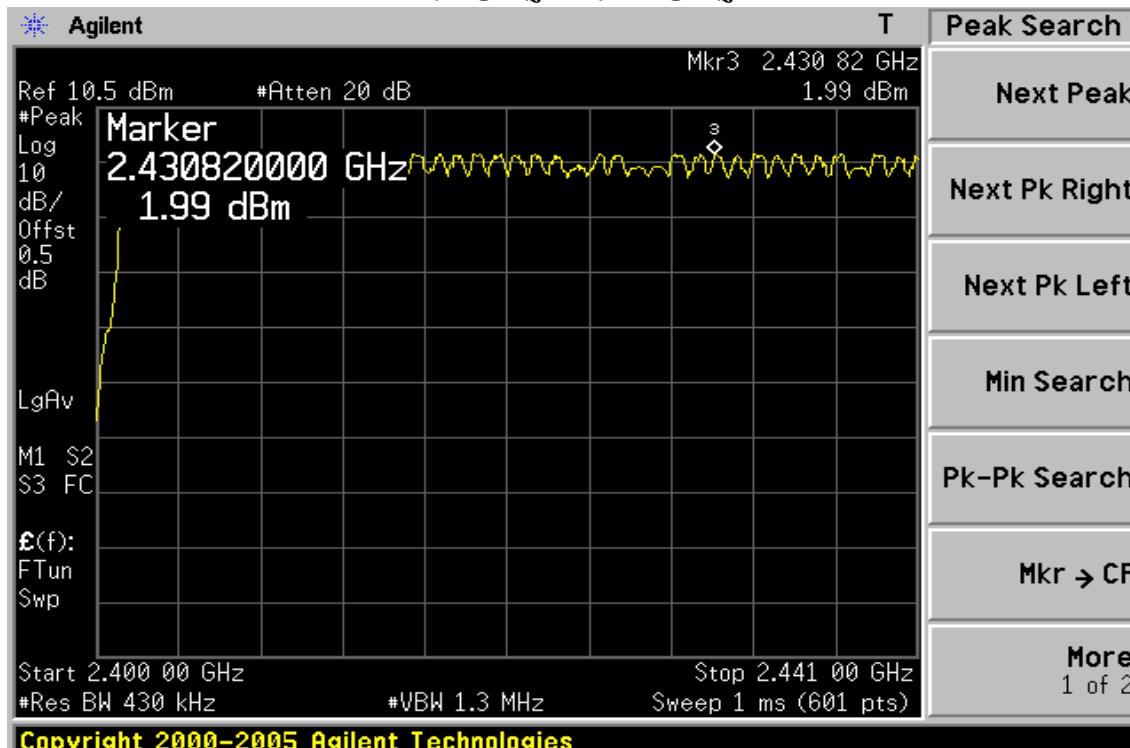
f (886-2) 2298-0488

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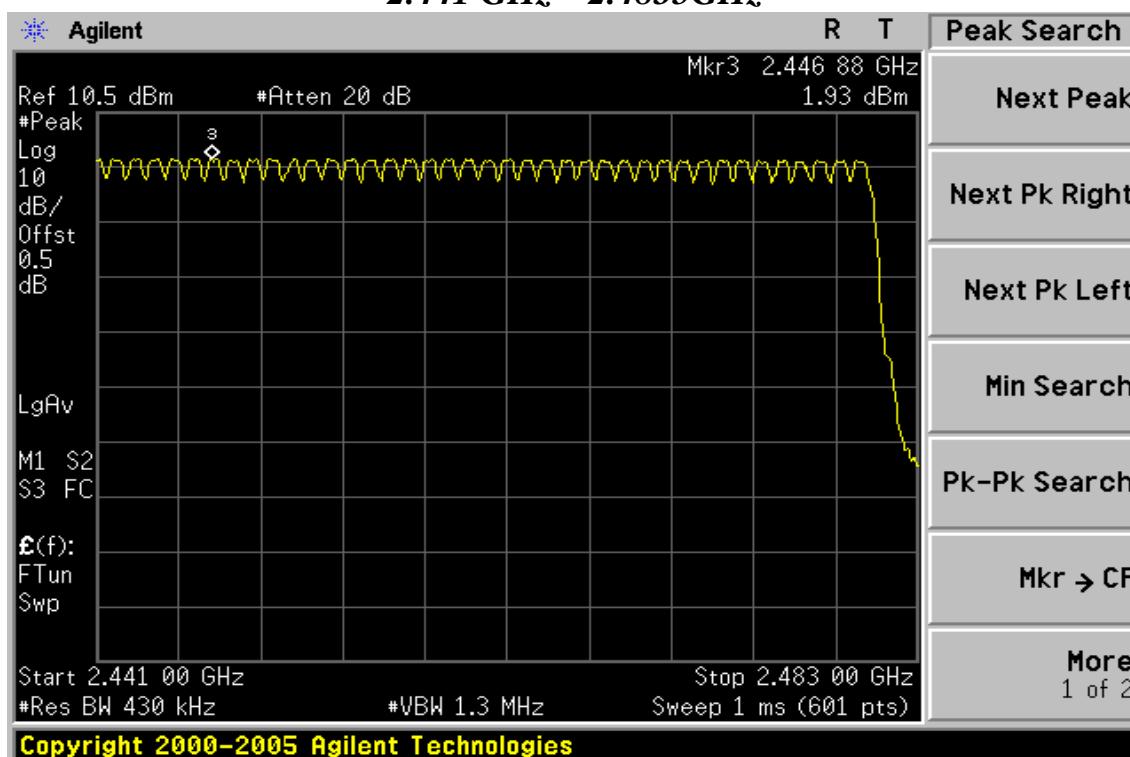
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Channel Number

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 6.2 for details.

12.3. Test Set-up:

Refer to section 6.3 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 = 2~7ms.
5. Repeat above procedures until all frequency measured were complete.

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12.5. Measurement Result

A period time = $0.4 \text{ (ms)} * 79 = 31.6 \text{ (s)}$

CH Low: DH1 time slot = $0.1963 \text{ (ms)} * (1600/(2*79)) * 31.6 = 62.82 \text{ (ms)}$

DH3 time slot = $1.592 \text{ (ms)} * (1600/(4*79)) * 31.6 = 254.72 \text{ (ms)}$

DH5 time slot = $2.795 \text{ (ms)} * (1600/(6*79)) * 31.6 = 298.13 \text{ (ms)}$

CH Mid: DH1 time slot = $0.1963 \text{ (ms)} * (1600/(2*79)) * 31.6 = 62.82 \text{ (ms)}$

DH3 time slot = $1.592 \text{ (ms)} * (1600/(4*79)) * 31.6 = 254.72 \text{ (ms)}$

DH5 time slot = $2.795 \text{ (ms)} * (1600/(6*79)) * 31.6 = 298.13 \text{ (ms)}$

CH High: DH1 time slot = $0.1963 \text{ (ms)} * (1600/(2*79)) * 31.6 = 62.82 \text{ (ms)}$

DH3 time slot = $1.592 \text{ (ms)} * (1600/(4*79)) * 31.6 = 254.72 \text{ (ms)}$

DH5 time slot = $2.795 \text{ (ms)} * (1600/(6*79)) * 31.6 = 298.13 \text{ (ms)}$

Note: Refer to next page for plots.

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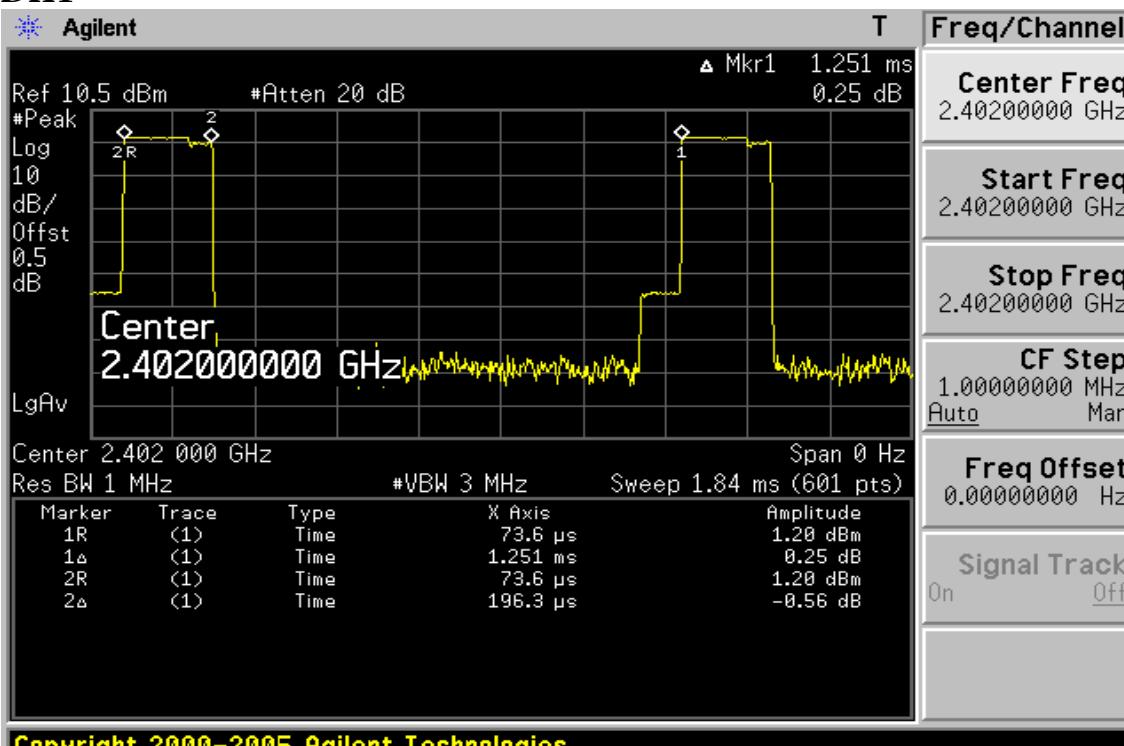
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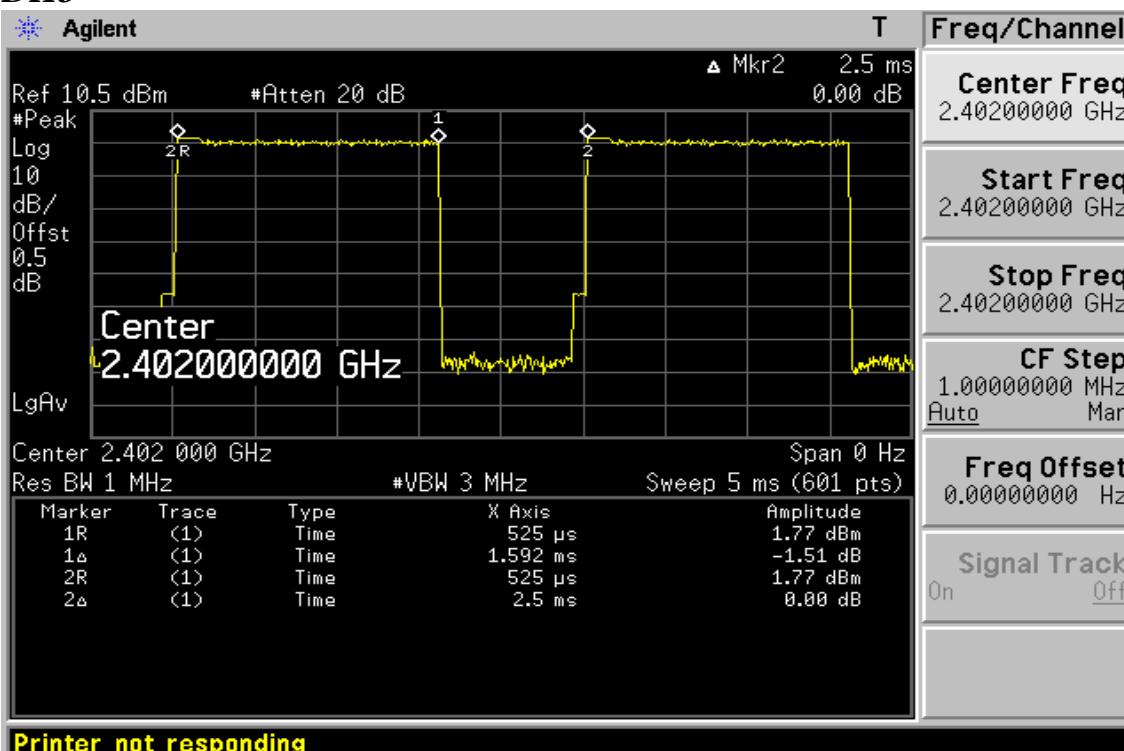
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CH-Low
DH1


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DH3


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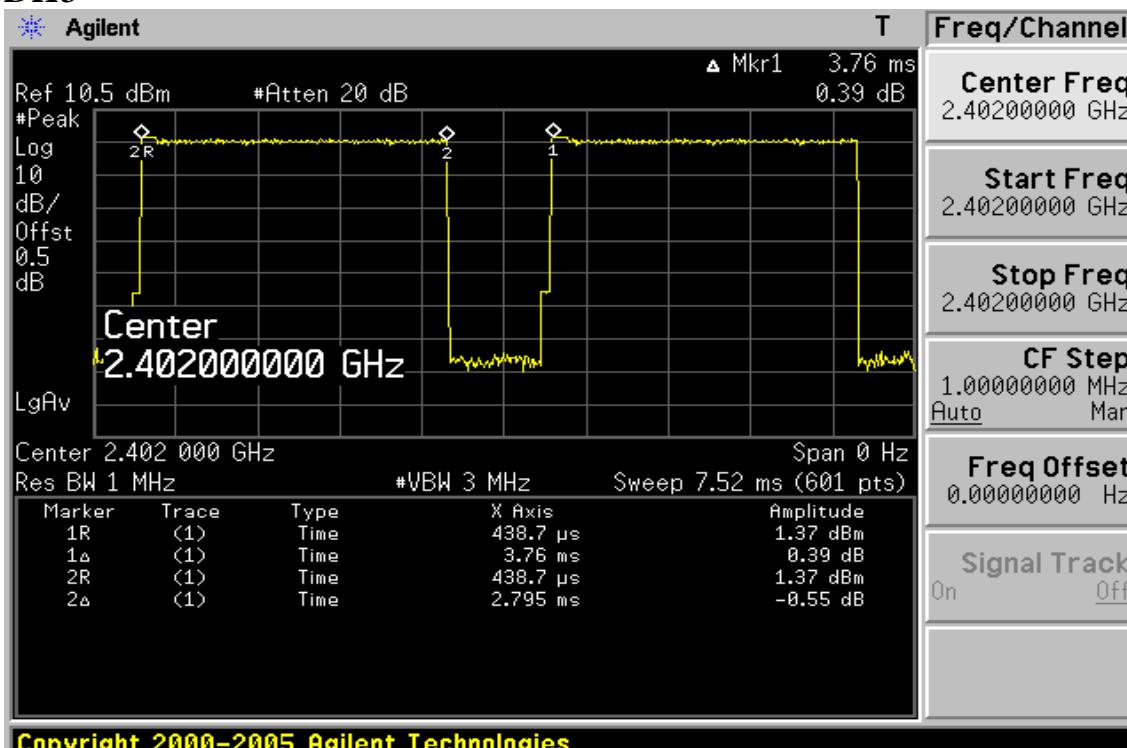
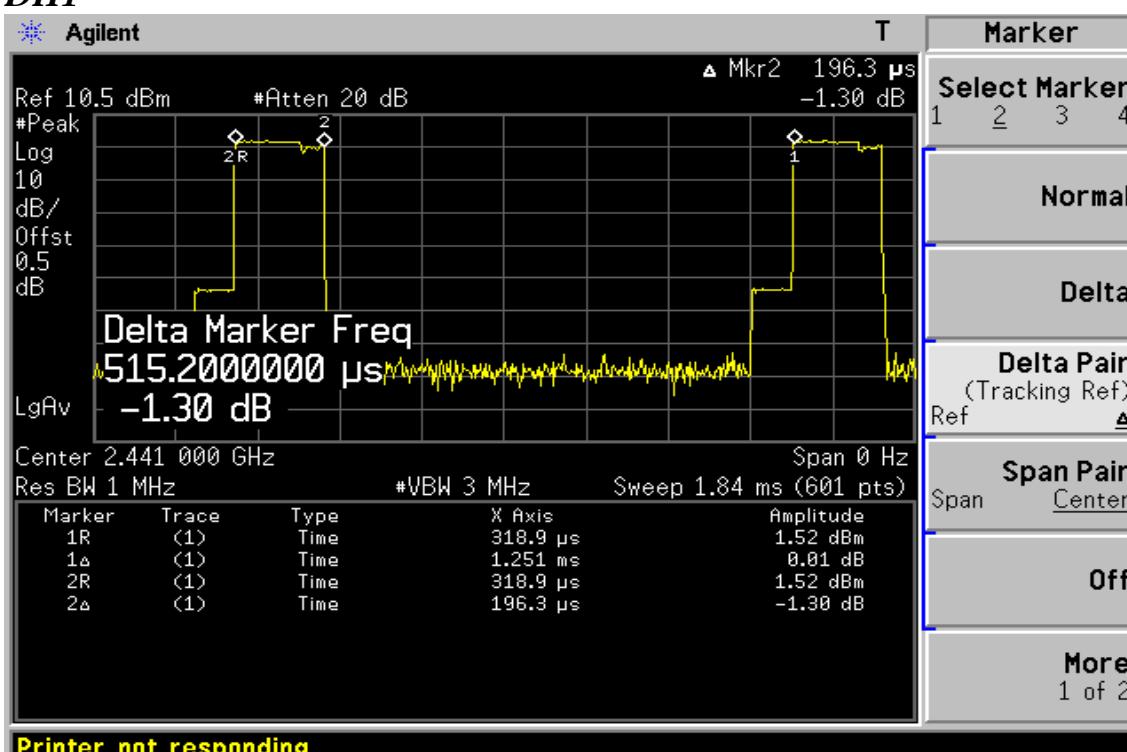
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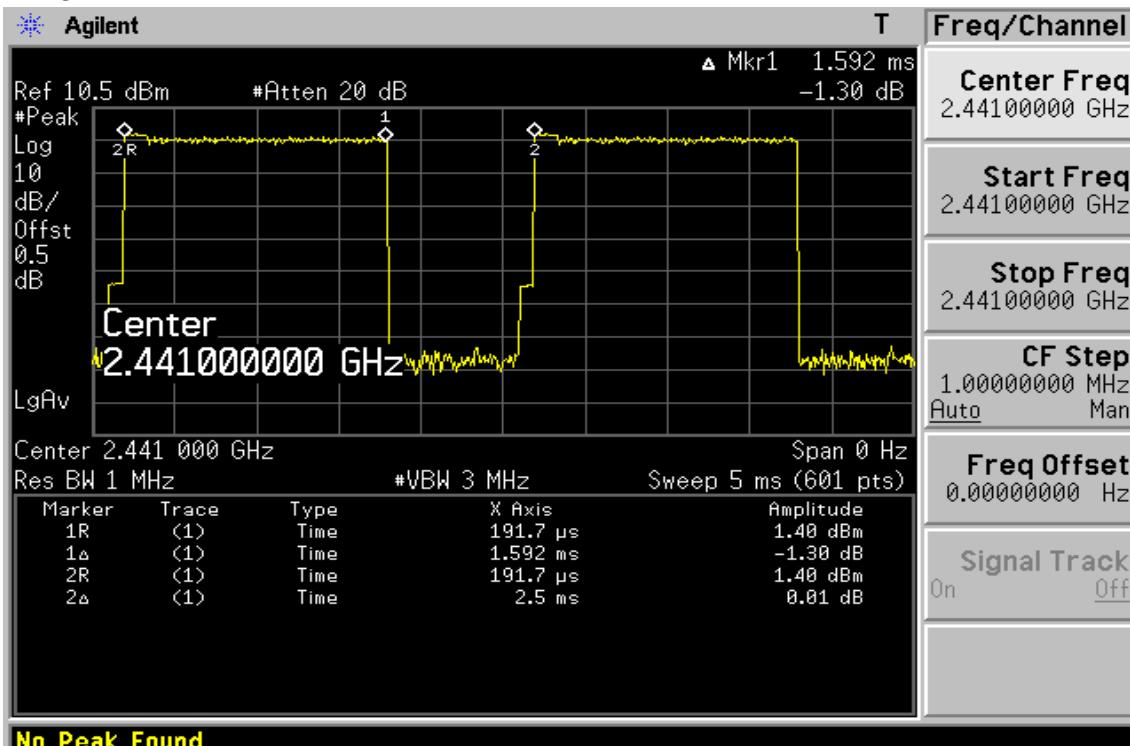
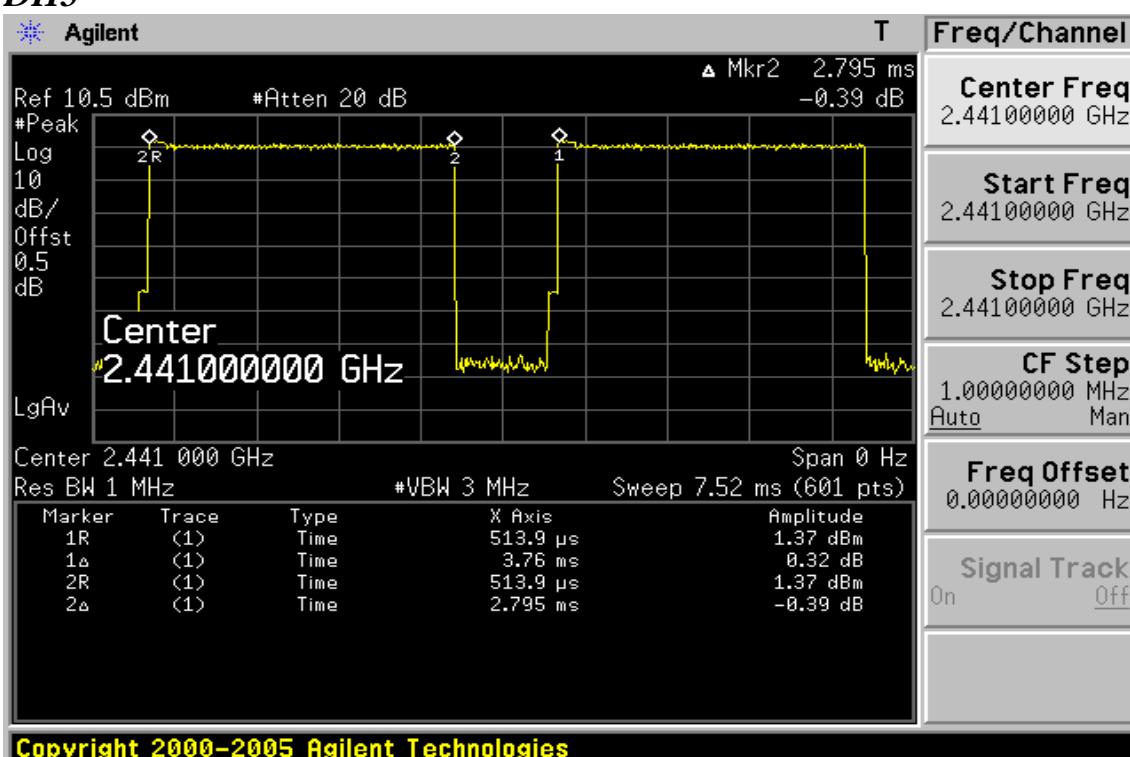
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DH5

CH-Mid
DH1


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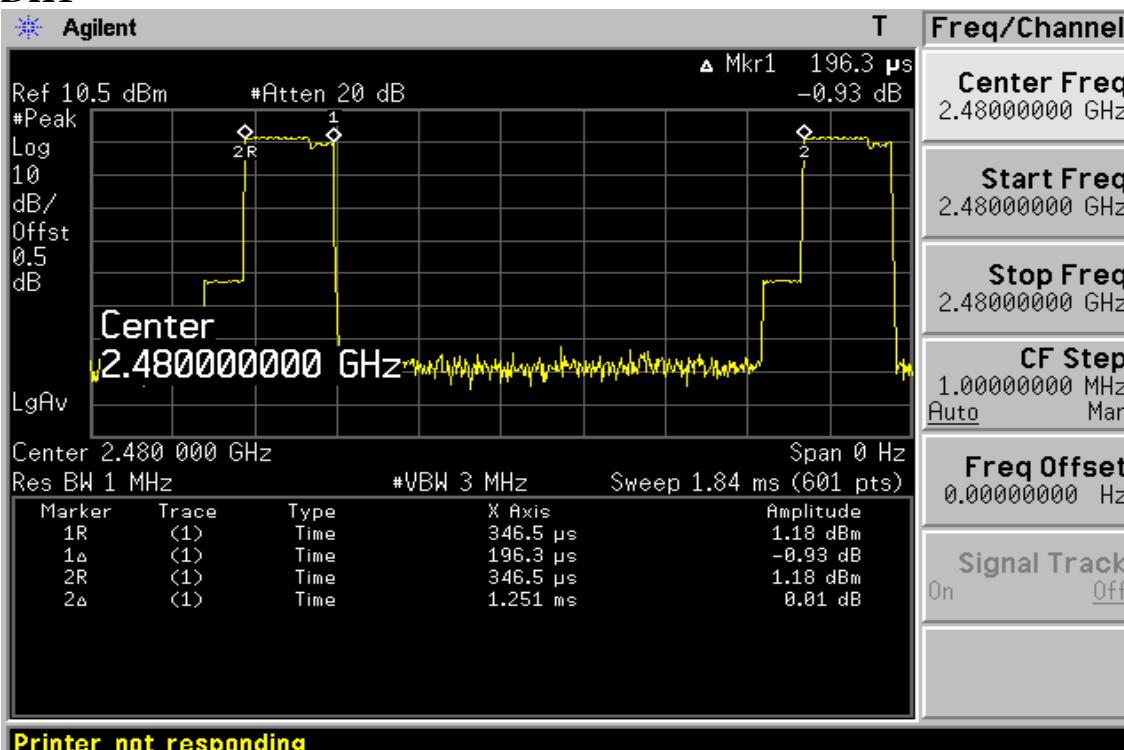
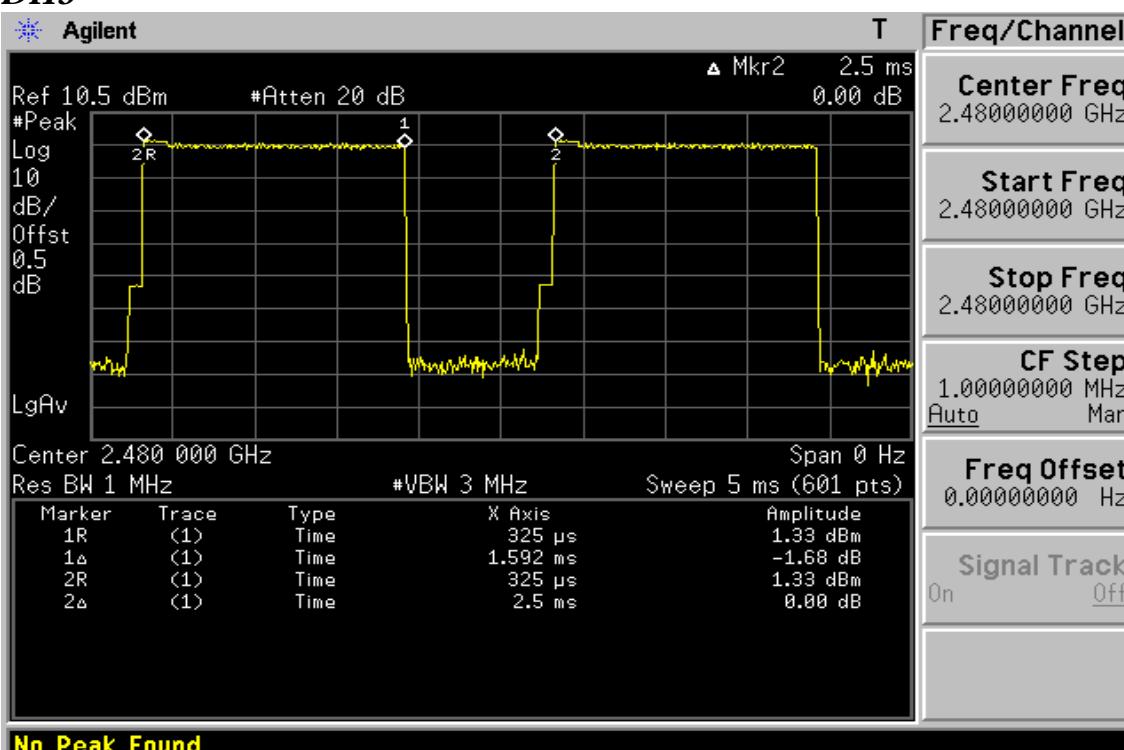
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DH3

DH5


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CH-High
DH1

DH3


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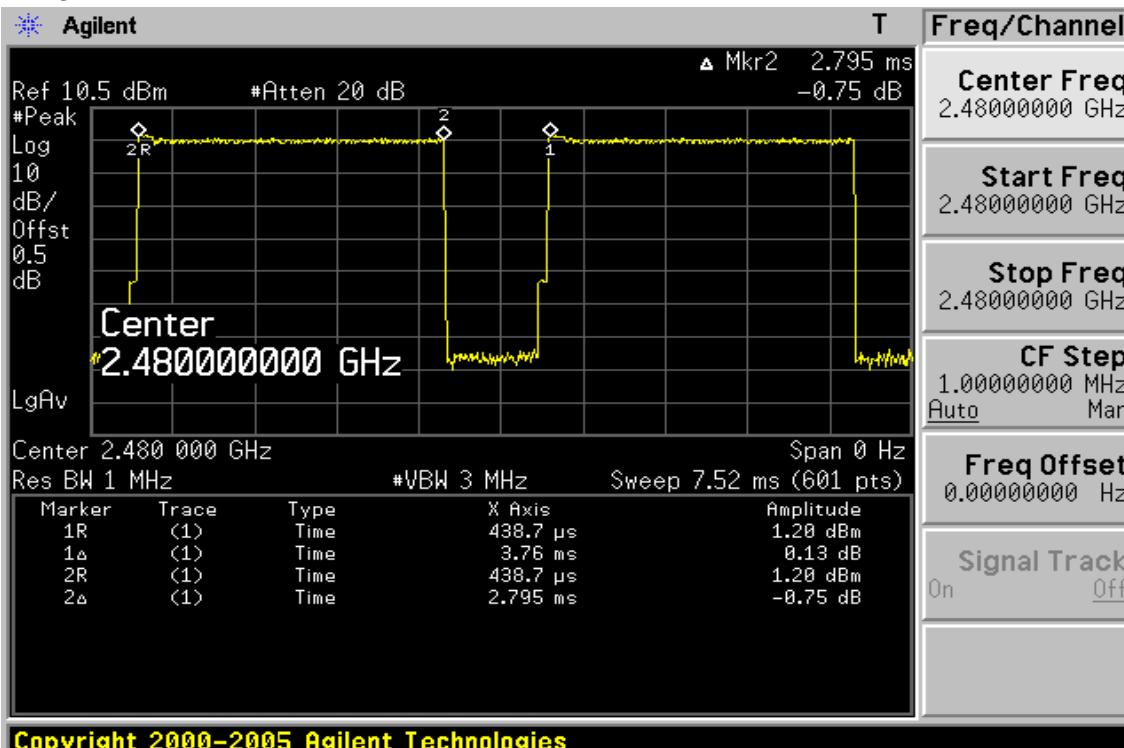
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DH5

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13. ANTENNA REQUIREMENT

13.1. 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.

13.2. Antenna Connected Construction

The directional gains of antenna used for transmitting is 2.41 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

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