

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: CDMA TSX01
Brand Name: N/A
Marketing Name: Dots Obsession, Full Happiness With Dots
Model: Dot
Model Difference: N/A
FCC ID: WVS-CN10-J01
Report No.: EH/2009/40022
Issue Date: May 11, 2009
Rule Part: FCC Part 15C:2007, §15.247
Prepared for: Toshiba Corporation, Mobile Communications
Co., Quality Management Division
1-1, Asahigaoka 3-Chome, Hino-Shi, Tokyo,
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Prepared by: SGS Taiwan Ltd.
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CERTIFICATION OF COMPLIANCE

Applicant / Manufacturer: Toshiba Corporation, Mobile Communications Co., Quality Management Division

1-1, Asahigaoka 3-Chome, Hino-Shi, Tokyo, 191-8555, Japan

Product Name: CDMA TSX01

FCC ID: WVS-CN10-J01

Brand Name: N/A

Marketing Name: Dots Obsession, Full Happiness With Dots

Model: Dot

Model Difference: N/A

File Number: EH/2009/40021

Date of test: Dec. 12, 2008 ~ Dec. 16, 2008

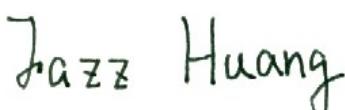
Date of EUT Received: Dec. 12, 2008

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:

May 11, 2009

Jazz Huang/Engineer

Prepared By:



Date:

May 11, 2009

Eva Kao / Asst. Supervisor

Approved By:



Date:

May 11, 2009

Vincent Su / Manager

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Version

| Version No. | Date | Description |
|-------------|---------------|------------------------------|
| 00 | Dec. 25, 2008 | Initial creation of document |
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1. GENERAL INFORMATION

1.1. Product Description

| | | |
|-------------------------|--|----------------------|
| Type Name: | CDMA TSX01 | |
| Brand Name: | N/A | |
| Marketing Name: | Dots Obsession, Full Happiness With Dots | |
| Model: | Dot | |
| Model Difference: | N/A | |
| Data Cable (USB) | N/A | |
| Simple Hands-free (SHF) | N/A | |
| Power Supply: | 3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter | |
| | Battery Model: | 61TSUAA, Brand: KDDI |

CDMA 2000:

| DUT Standards and Power: | CDMA2000 BC0 | Frequency Range | | Maximum Output Power | | |
|---|-----------------|--------------------|-------------------|----------------------|-----------------|--|
| | | TX: | 824.70-848.31 MHz | 24.09 dBm | | |
| | | RX: | 869.70-893.37 MHz | | | |
| Final Amplifier Voltage and Current Information | | | | DC voltage (V) | DC current (mA) | |
| | | CDMA 2000 Cellular | | 3.7Vdc | 920 | |
| Type of Emission | 1M25F9W | | | | | |
| MEID | A1000006E707D5 | | | | | |
| Software Version | N/A | | | | | |
| Hardware Version | CS sample | | | | | |
| Antenna Type | PIFA | | | | | |

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Bluetooth:

| | |
|---------------------|---|
| Bluetooth Version | <input type="checkbox"/> V1.1 (GFSK) <input type="checkbox"/> V1.2 (GFSK) <input type="checkbox"/> V2.0 (GFSK) <input checked="" type="checkbox"/> V2.0 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK) <input type="checkbox"/> V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK) |
| Frequency Range | 2402 – 2480MHz |
| Channel number | 79 channels max., 1MHz step |
| Rated Power | 0.41 dBm (Peak) |
| Modulation type | Frequency Hopping Spread Spectrum |
| Antenna Designation | Metal Antenna / 2.1dBi. |
| Type of Emission | 1M28FXD |

The EUT is compliance with Bluetooth 2.0 with EDR.

This test report applies for BT.

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

This submittal(s) (test report) is intended for **FCC ID: WVS-CN10-J01** filing to comply with Section 15.247 of the FCC Part 15C, Subpart C Rules.

1.3. 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.

1.4. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung 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-1

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.

1.5. 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 Phone 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 placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7, 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 (Fixed channel)

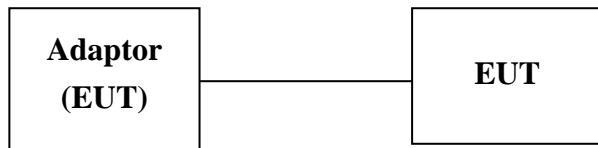


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/ Type No. | Series No. |
|------|-----------|-----------|--------------------|------------|
| 1. | N/A | | | |

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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 |
| §15.203, §15.247(c) | Antenna Requirement | Compliant |
| §15.247(a)(1) | 20dB Bandwidth | No Limit |

4. DESCRIPTION OF TEST MODES

The EUT has been tested under engineering test condition. Test program was used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel low (2402MHz)、mid (2441MHz) and high (2480MHz) modes are chosen for full testing.

The field strength of spurious radiation emission was measured as EUT stand-up position (E1 mode) and lie down position (E1, E2 mode) and three enclosures (Pink, White, and Black). The worst-case of H position with Pink enclosure were reported.

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5. AC POWER LINE CONDUCTED EMISSION TEST

5.1. 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.

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 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 110Vac/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 | 09/16/2008 | 09/15/2009 |
| LISN | Rolf-Heine | NNB-2/16Z | 99012 | 02/18/2008 | 02/17/2009 |
| LISN | FCC | FCC-LISN-50/250-25-2-01 | 04034 | 02/18/2008 | 02/17/2009 |
| Coaxial Cables | N/A | WK CE Cable | N/A | 10/30/2008 | 10/29/2009 |

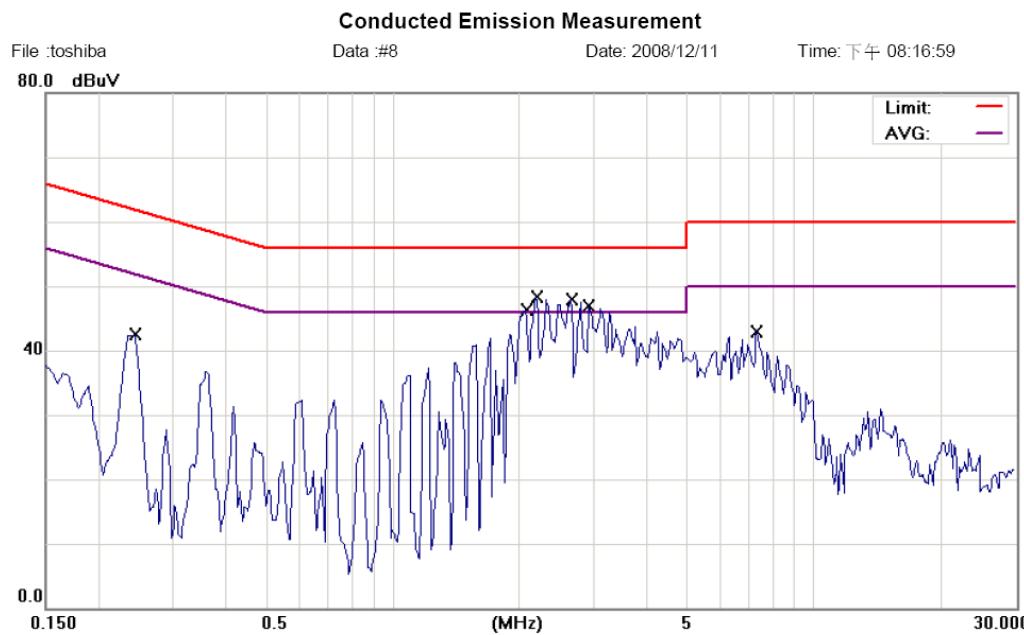
5.5. Measurement Result

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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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | | |
|-----------------|---------|-----------|------------|---------------|
| Operation Mode: | BT Link | | Test Date: | Dec. 11, 2008 |
| Temperature: | 26 °C | Humidity: | 61% | Test By: Jazz |



Site SGS CONDUCTED #1 Phase: L1 Temperature: 26 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 61 %
 EUT: CDMA TS001 Distance: Air Pressure: hpa
 M/N: T001
 Note: BT link mode

| No. Mk. | Freq. MHz | Reading Level dBuV | Factor | Measure- ment dBuV | Limit dBuV | Over | | Comment |
|---------|--------------|--------------------------|--------|--------------------------|---------------|----------|-----|---------|
| | | | | | | Detector | | |
| 1 | 0.2450 | 40.90 | 0.14 | 41.04 | 61.92 | -20.88 | QP | |
| 2 | 0.2450 | 27.90 | 0.14 | 28.04 | 51.92 | -23.88 | AVG | |
| 3 | 2.0500 | 41.50 | 0.04 | 41.54 | 56.00 | -14.46 | QP | |
| 4 | 2.0500 | 21.40 | 0.04 | 21.44 | 46.00 | -24.56 | AVG | |
| 5 * | 2.2000 | 46.80 | 0.04 | 46.84 | 56.00 | -9.16 | QP | |
| 6 | 2.2000 | 25.30 | 0.04 | 25.34 | 46.00 | -20.66 | AVG | |
| 7 | 2.6600 | 42.10 | 0.04 | 42.14 | 56.00 | -13.86 | QP | |
| 8 | 2.6600 | 20.30 | 0.04 | 20.34 | 46.00 | -25.66 | AVG | |
| 9 | 2.9300 | 44.00 | 0.04 | 44.04 | 56.00 | -11.96 | QP | |
| 10 | 2.9300 | 24.00 | 0.04 | 24.04 | 46.00 | -21.96 | AVG | |
| 11 | 7.3200 | 38.90 | 0.11 | 39.01 | 60.00 | -20.99 | QP | |
| 12 | 7.3200 | 20.70 | 0.11 | 20.81 | 50.00 | -29.19 | AVG | |

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Conducted Emission Measurement

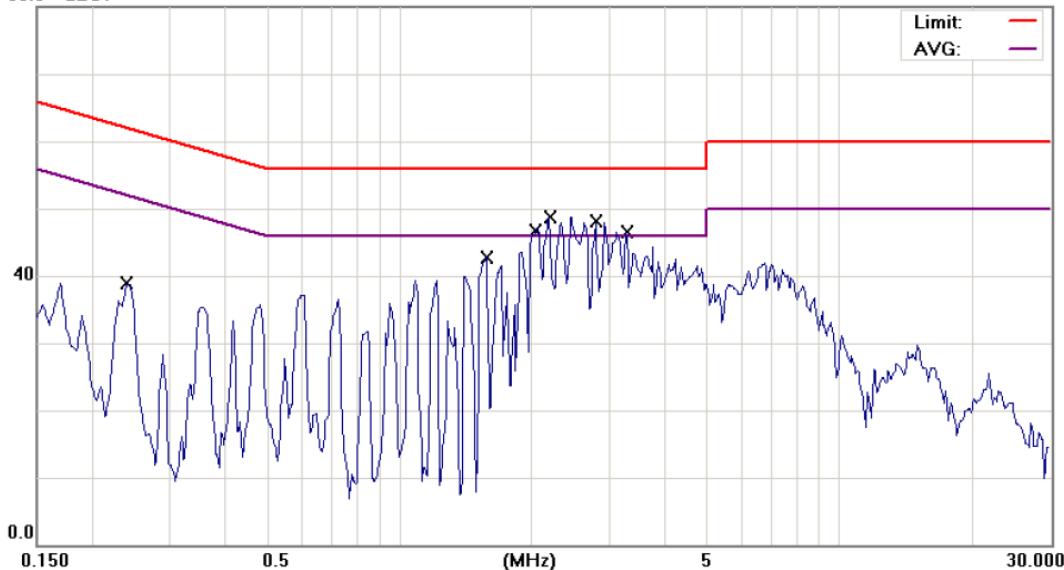
File :toshiba

Data #:7

Date: 2008/12/11

Time: 下午 08:12:19

80.0 dBuV



Site SGS CONDUCTED #1

Phase: **N**

Temperature: 26 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 61 %

EUT: CDMA TS001

Distance:

Air Pressure: hpa

M/N: T001

Note: BT link mode

| No. | Mk. | Freq. | Reading | Factor | Measure- | Limit | Over | Detector | Comment |
|-----|-----|--------|---------|--------|----------|-------|--------|----------|---------|
| | | | Level | | Level | | | | |
| | | MHz | dBuV | | dB | dBuV | dB | | |
| 1 | | 0.2400 | 36.70 | 0.13 | 36.83 | 62.10 | -25.27 | QP | |
| 2 | | 0.2400 | 22.30 | 0.13 | 22.43 | 52.10 | -29.67 | AVG | |
| 3 | | 1.5800 | 41.10 | 0.03 | 41.13 | 56.00 | -14.87 | QP | |
| 4 | | 1.5800 | 20.60 | 0.03 | 20.63 | 46.00 | -25.37 | AVG | |
| 5 | | 2.0200 | 42.70 | 0.03 | 42.73 | 56.00 | -13.27 | QP | |
| 6 | | 2.0200 | 25.80 | 0.03 | 25.83 | 46.00 | -20.17 | AVG | |
| 7 * | | 2.1900 | 47.10 | 0.03 | 47.13 | 56.00 | -8.87 | QP | |
| 8 | | 2.1900 | 24.10 | 0.03 | 24.13 | 46.00 | -21.87 | AVG | |
| 9 | | 2.8000 | 45.80 | 0.03 | 45.83 | 56.00 | -10.17 | QP | |
| 10 | | 2.8000 | 24.10 | 0.03 | 24.13 | 46.00 | -21.87 | AVG | |
| 11 | | 3.2900 | 44.00 | 0.04 | 44.04 | 56.00 | -11.96 | QP | |
| 12 | | 3.2900 | 27.00 | 0.04 | 27.04 | 46.00 | -18.96 | AVG | |

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6. PEAK OUTPUT POWER MEASUREMENT

6.1. 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.

6.2. 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. (Channel power function, RBW, VBW = 1MHz for BDR model, RBW = 1.5MHz, VBW =5MHz for EDR model)
3. Record the max. reading.
4. Repeat above procedures until all frequency measured were complete.

6.3. Measurement Result:

BDR mode:

| Frequency (MHz) | Reading Power (dBm) | Cable Loss | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|------------|--------------------|------------------|-----------|
| 2402.00 | 0.31 | 0.10 | 0.41 | 0.00110 | 1 |
| 2441.00 | 0.14 | 0.10 | 0.24 | 0.00106 | 1 |
| 2480.00 | -0.63 | 0.10 | -0.53 | 0.00088 | 1 |

EDR mode:

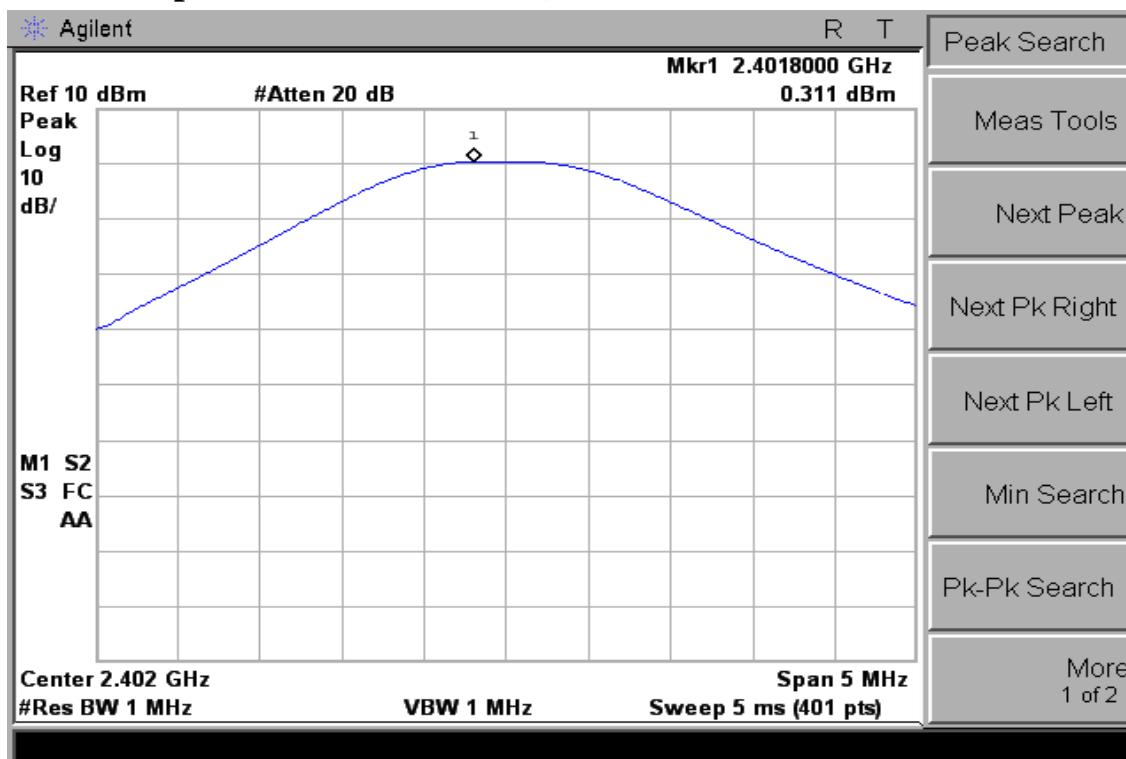
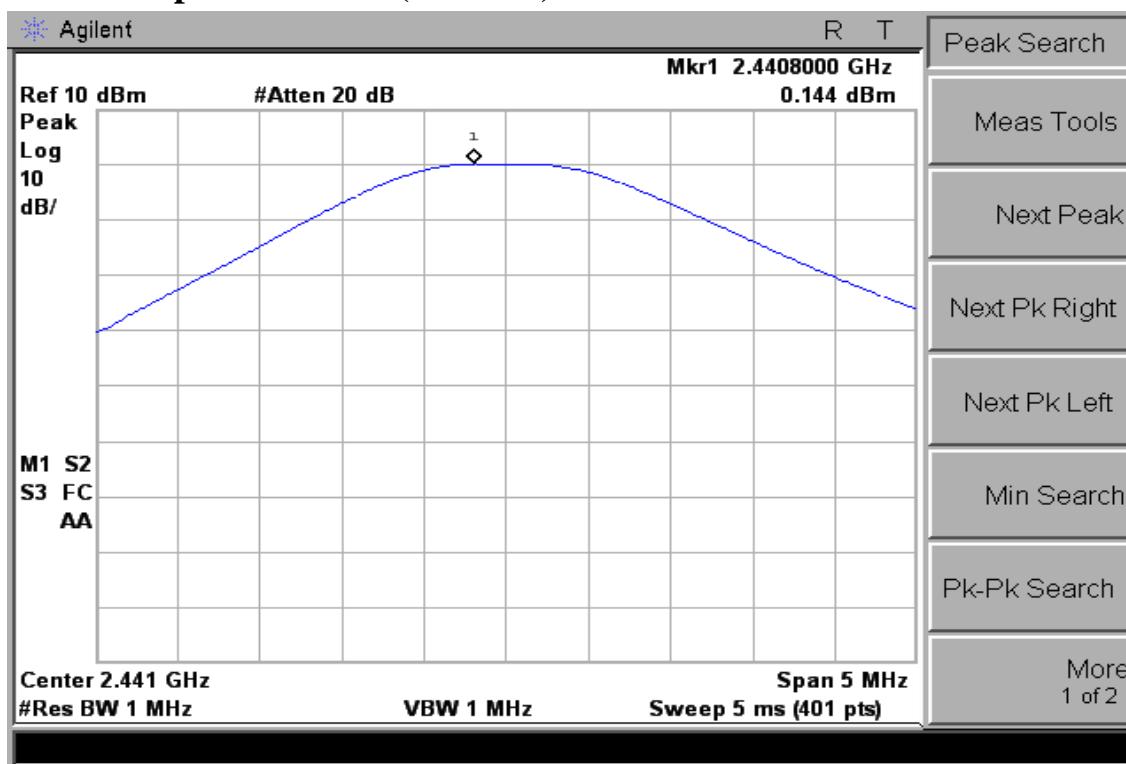
| Frequency (MHz) | Reading Power (dBm) | Cable Loss | Output Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|------------|--------------------|------------------|-----------|
| 2402.00 | -0.01 | 0.10 | 0.09 | 0.00102 | 1 |
| 2441.00 | -0.04 | 0.10 | 0.06 | 0.00101 | 1 |
| 2480.00 | -1.13 | 0.10 | -1.03 | 0.00079 | 1 |

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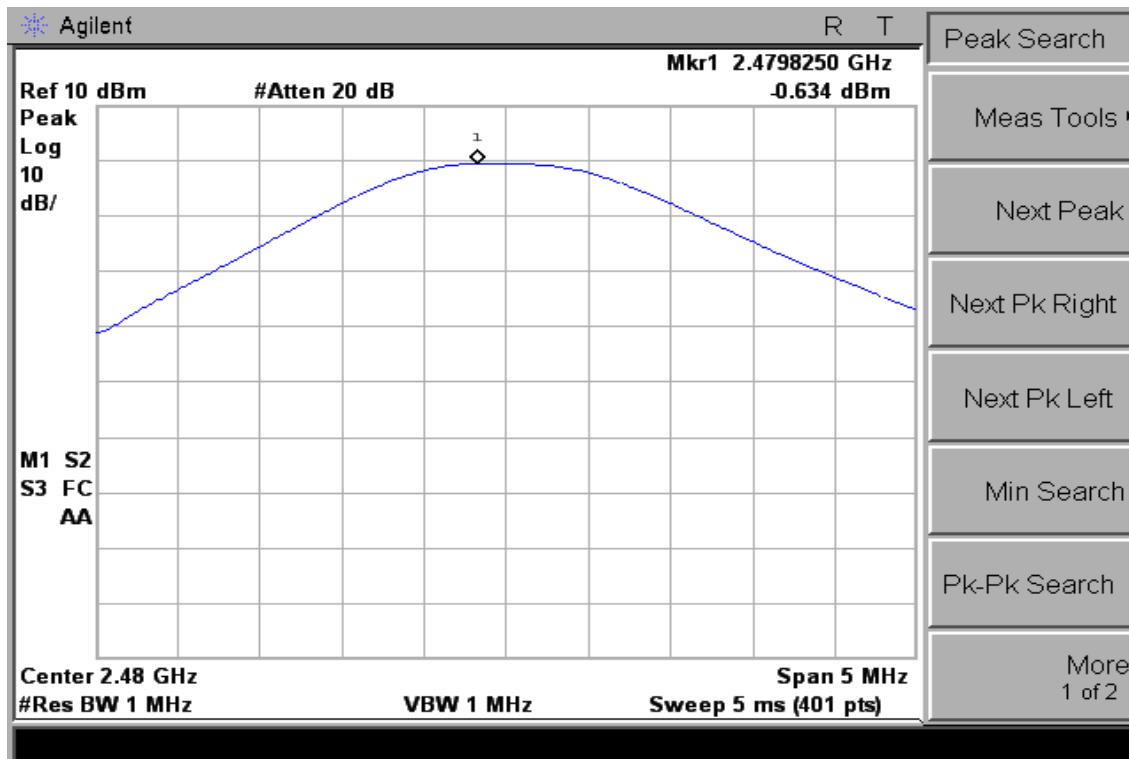
6.4. Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/19/2008 | 04/18/2010 |
| Spectrum Analyzer | Agilent | E4440A | MY45304525 | 01/23/2008 | 01/22/2010 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | 02/13/2008 | 02/12/2009 |
| DC Block | Agilent | BLK-18 | 155452 | 07/05/2008 | 07/04/2009 |
| Attenuator | Mini-Circuit | BW-S6W5 | 001 | 07/05/2008 | 07/04/2009 |
| Attenuator | Mini-Circuit | BW-S10W5 | 001 | 07/05/2008 | 07/04/2009 |
| Attenuator | Mini-Circuit | BW-S20W5 | 001 | 07/05/2008 | 07/04/2009 |
| Splitter | Agilent | 11636B | N/A | 07/05/2008 | 07/04/2009 |

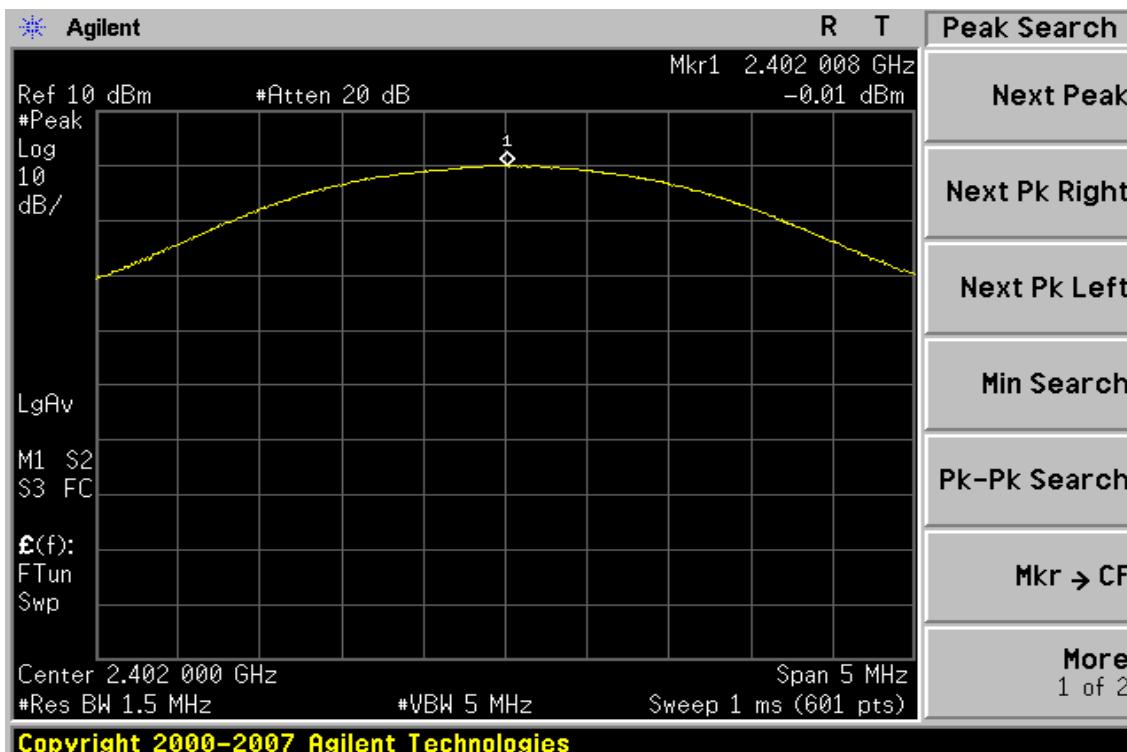
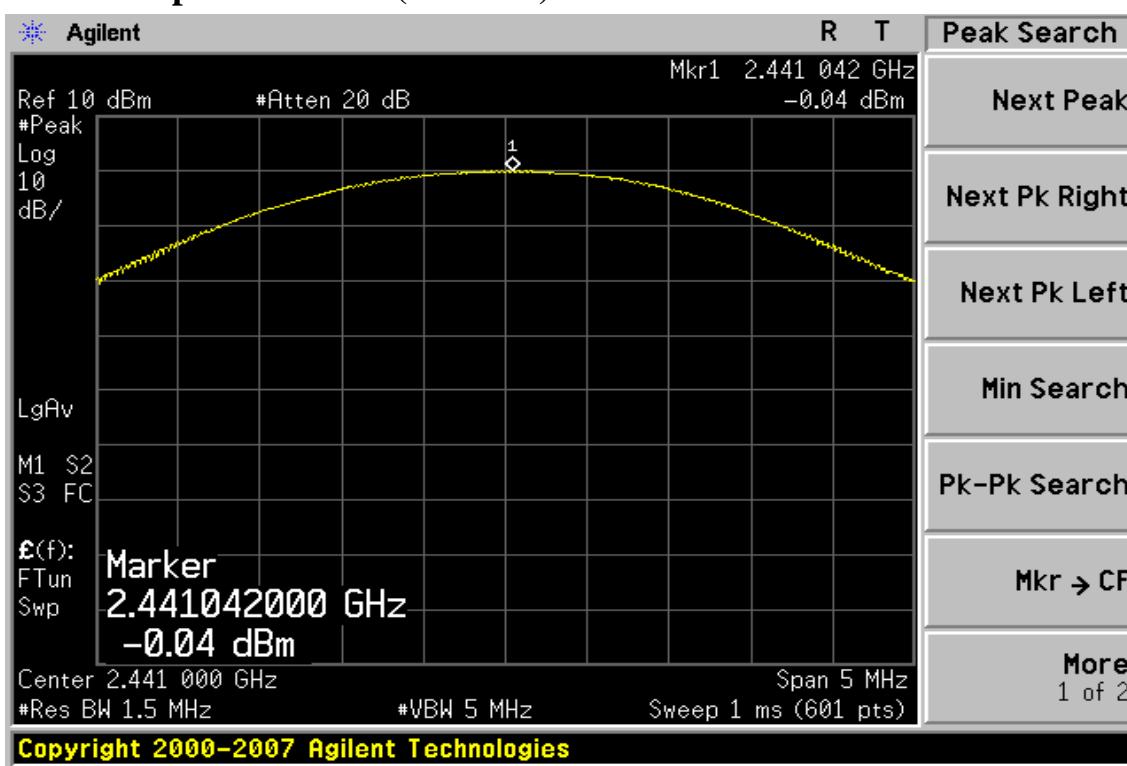
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BDR Mode**Peak Power Output Data Plot (CH Low)****Peak Power Output Data Plot (CH Mid)**

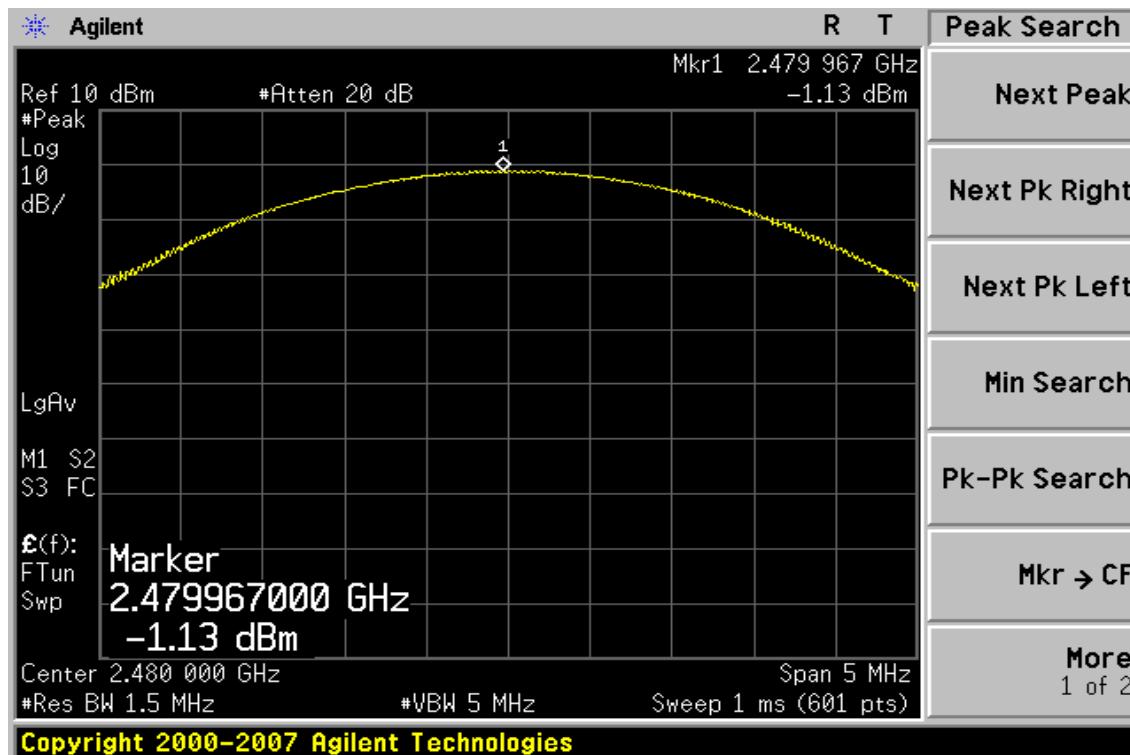
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Peak Power Output Data Plot (CH High)

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EDR Mode**Peak Power Output Data Plot (CH Low)****Peak Power Output Data Plot (CH Mid)**

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Peak Power Output Data Plot (CH High)

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7. 20dB Bandwidth

7.1. Standard Applicable

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

7.2. 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.) for BDR mode, RBW=15kHz (1 % of Bandwidth.) for EDR mode , 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.

7.3. Measurement Result

BDR mode:

| CH | Bandwidth (kHz) |
|--------|-----------------|
| Lower | 934.046 |
| Mid | 933.530 |
| Higher | 922.942 |

EDR mode:

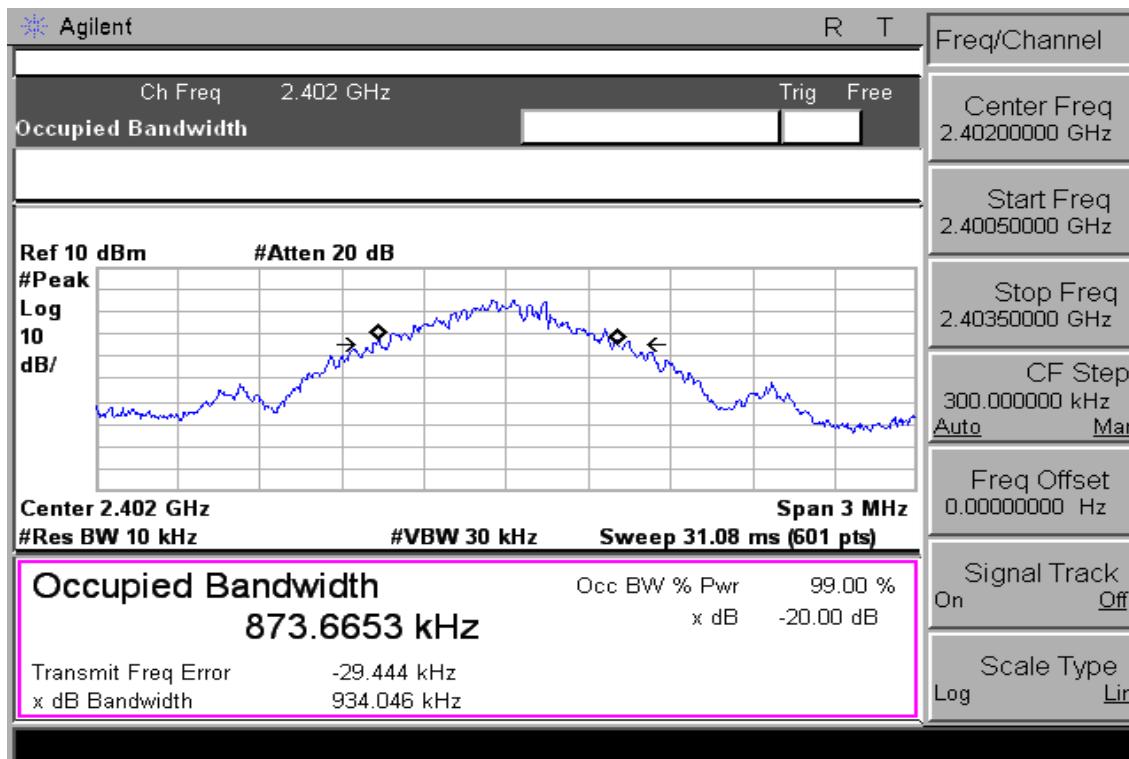
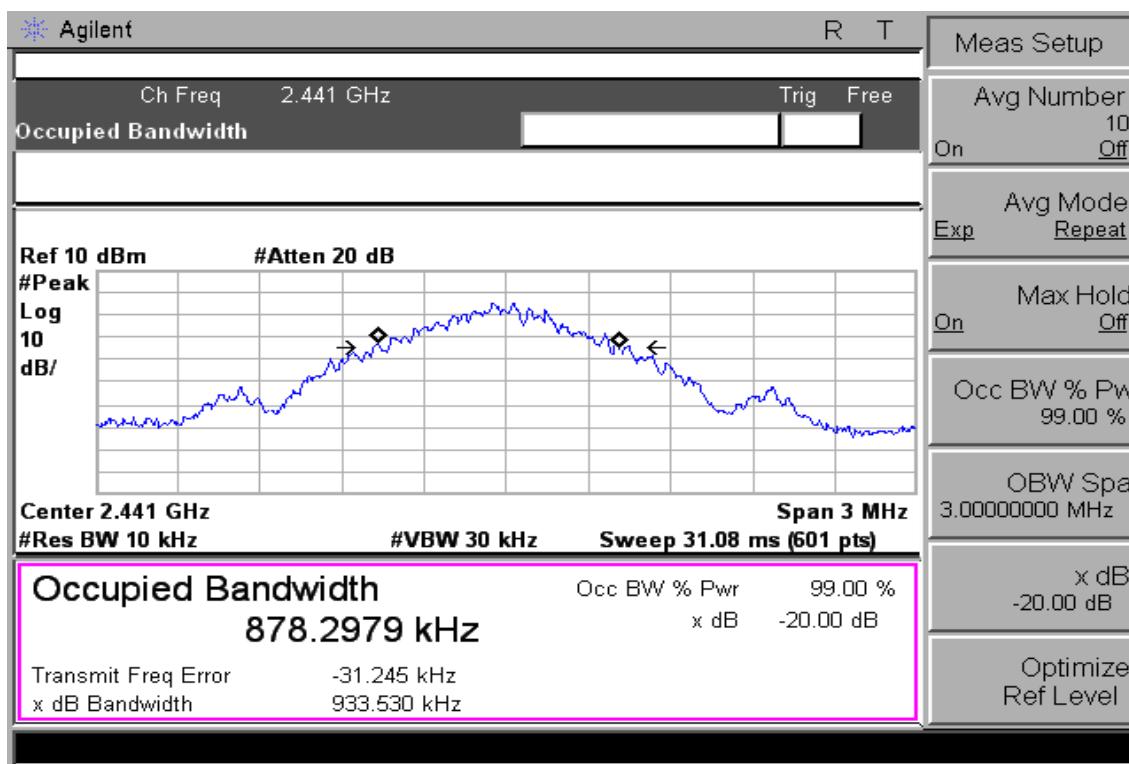
| CH | Bandwidth (MHz) | 2/3 Bandwidth (MHz) |
|--------|-----------------|---------------------|
| Lower | 1.389 | 0.926 |
| Mid | 1.384 | 0.923 |
| Higher | 1.390 | 0.927 |

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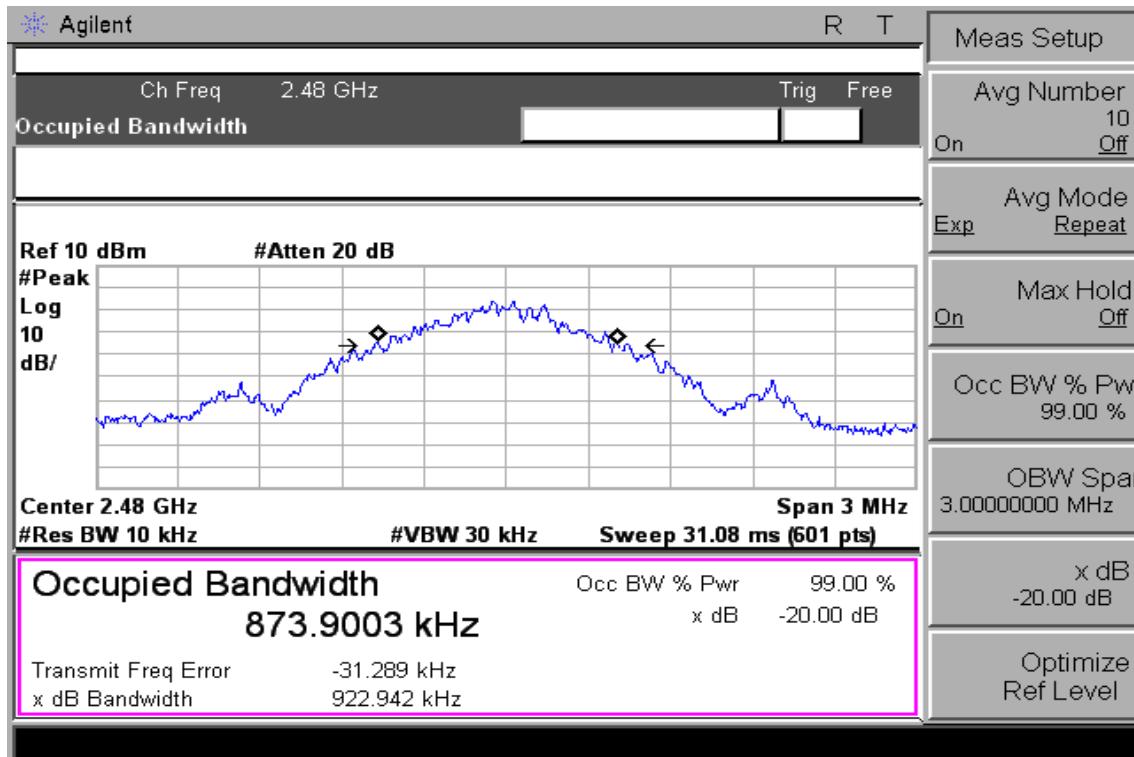
7.4. Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/19/2008 | 04/18/2010 |
| Spectrum Analyzer | Agilent | E4440A | MY45304525 | 01/23/2008 | 01/22/2010 |
| DC Block | Agilent | BLK-18 | 155452 | 07/05/2008 | 07/04/2009 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | 02/13/2008 | 02/12/2009 |
| Attenuator | Mini-Circuit | BW-S6W5 | 001 | 07/05/2008 | 07/04/2009 |
| Attenuator | Mini-Circuit | BW-S10W5 | 001 | 07/05/2008 | 07/04/2009 |
| Attenuator | Mini-Circuit | BW-S20W5 | 001 | 07/05/2008 | 07/04/2009 |
| Splitter | Agilent | 11636B | N/A | 07/05/2008 | 07/04/2009 |

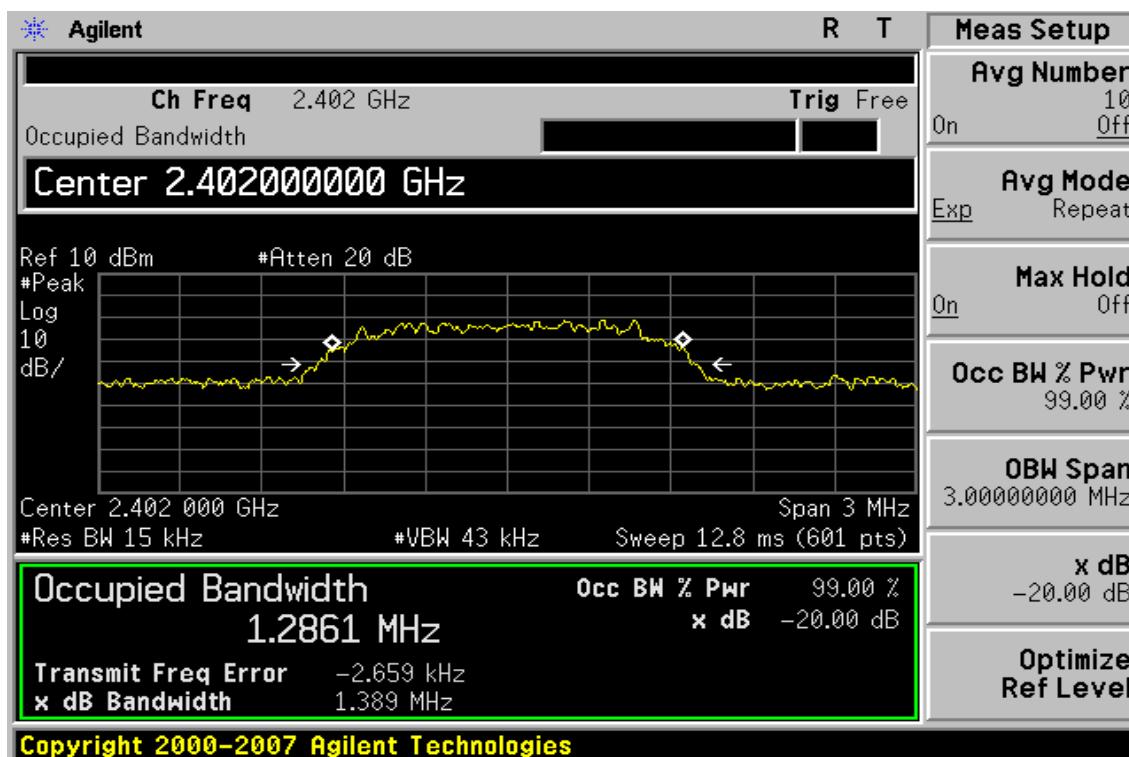
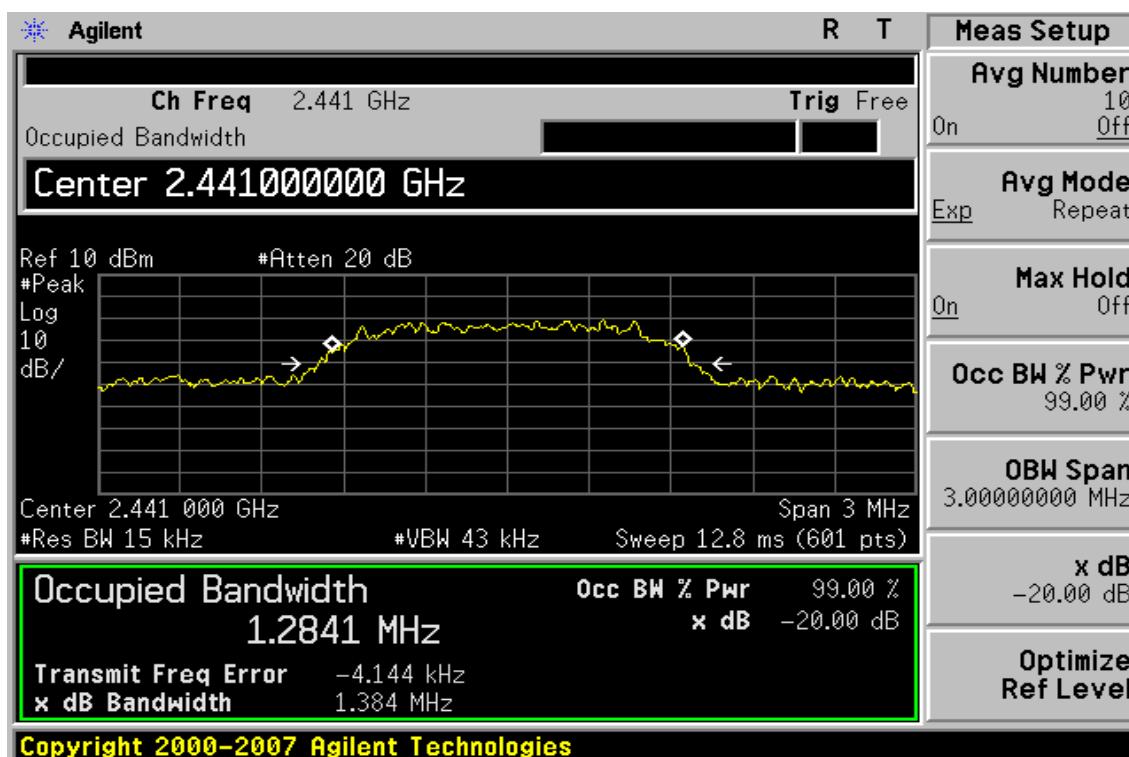
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BDR Mode**20dB Bandwidth Test Data CH-Low****20dB Bandwidth Test Data CH-Mid**

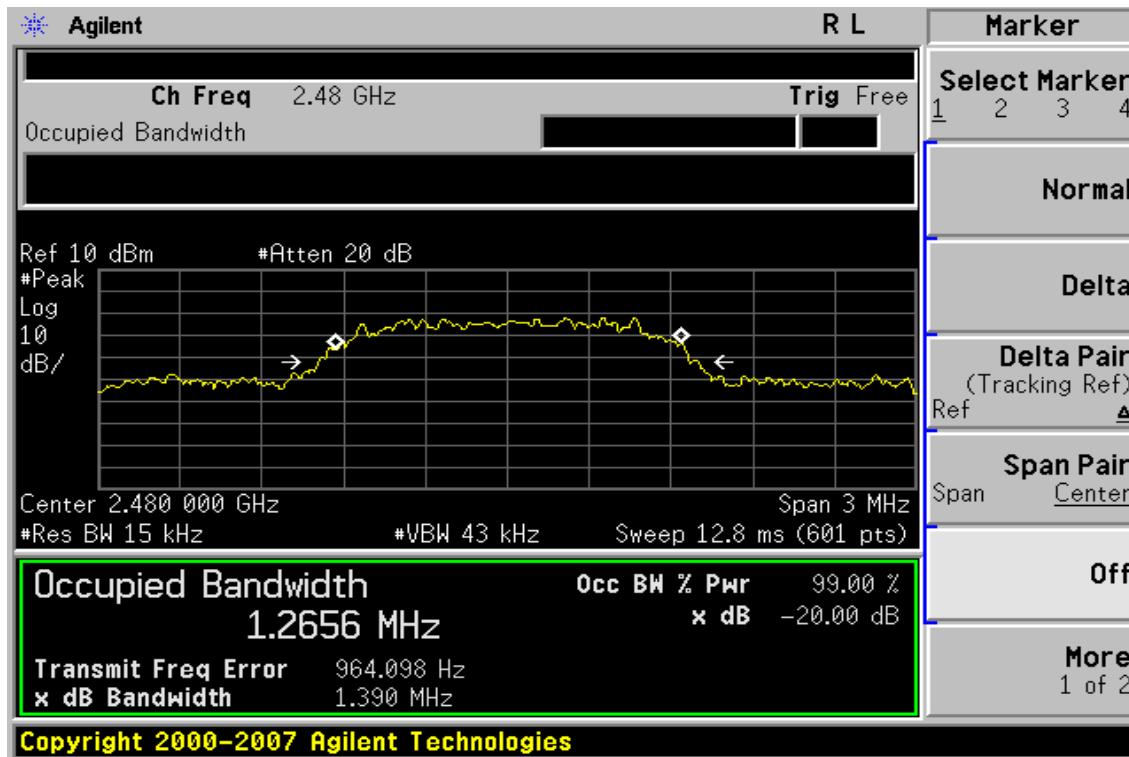
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20dB Bandwidth Test Data CH-High

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EDR Mode**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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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 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.

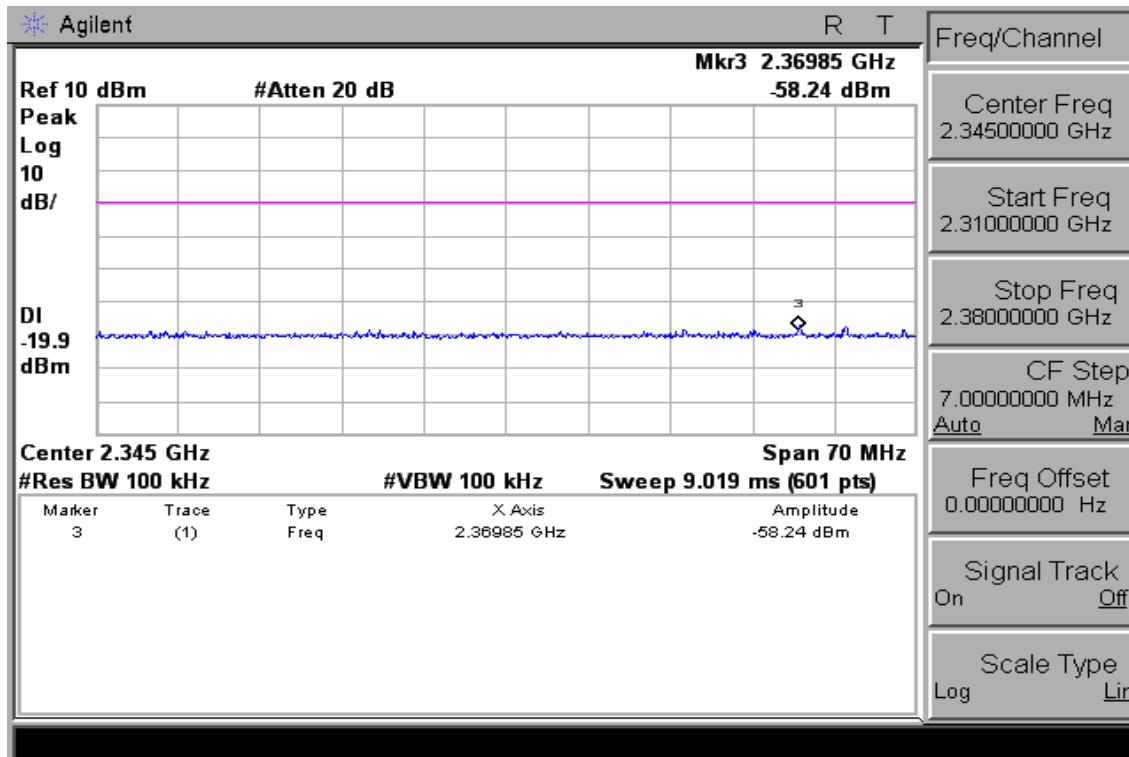
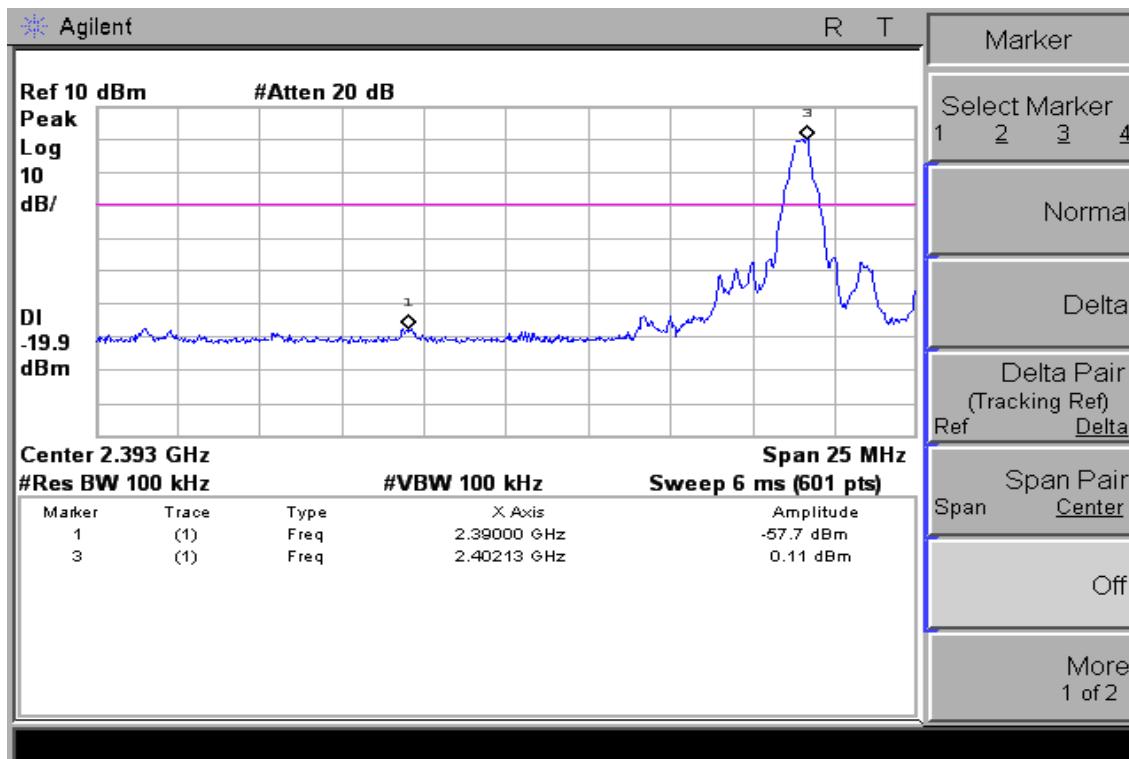
8.3. Measurement Result

Refer to attach spectrum analyzer data chart.

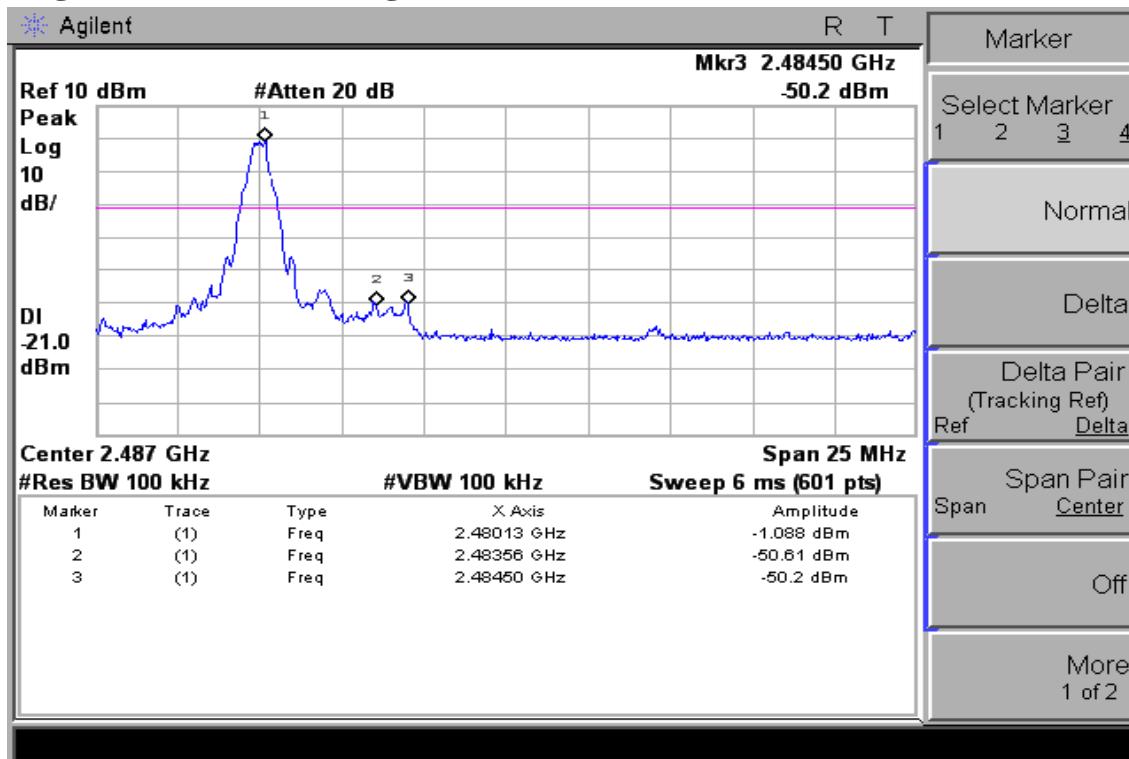
8.4. Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/19/2008 | 04/18/2010 |
| Spectrum Analyzer | Agilent | E4440A | MY45304525 | 01/23/2008 | 01/22/2010 |
| DC Block | Agilent | BLK-18 | 155452 | 07/05/2008 | 07/04/2009 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | 02/13/2008 | 02/12/2009 |
| Attenuator | Mini-Circuit | BW-S6W5 | 001 | 07/05/2008 | 07/04/2009 |
| Attenuator | Mini-Circuit | BW-S10W5 | 001 | 07/05/2008 | 07/04/2009 |
| Attenuator | Mini-Circuit | BW-S20W5 | 001 | 07/05/2008 | 07/04/2009 |
| Splitter | Agilent | 11636B | N/A | 07/05/2008 | 07/04/2009 |

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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:

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

Test Date Dec. 13, 2008
Test By Jazz
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) | | | |
| 2390.00 | 35.60 | --- | -1.39 | 34.21 | --- | 74.00 | 54.00 | -19.79 Peak |

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

Test Date Dec. 13, 2008
Test By Jazz
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) | | | |
| 2390.00 | 34.72 | --- | -1.39 | 33.33 | --- | 74.00 | 54.00 | -20.67 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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Radiated Emission:

| | | | |
|-----------------------|------------|-----------|---------------|
| Operation Mode | TX CH High | Test Date | Dec. 13, 2008 |
| Fundamental Frequency | 2480 MHz | Test By | Jazz |
| Temperature | 25 °C | Pol | Ver. |
| Humidity | 65 % | | |

| 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) | | | |
| 2483.56 | 39.74 | --- | -0.92 | 38.82 | --- | 74.00 | 54.00 | -15.18 Peak |
| 2484.50 | 40.69 | --- | -0.92 | 39.77 | --- | 74.00 | 54.00 | -14.23 Peak |

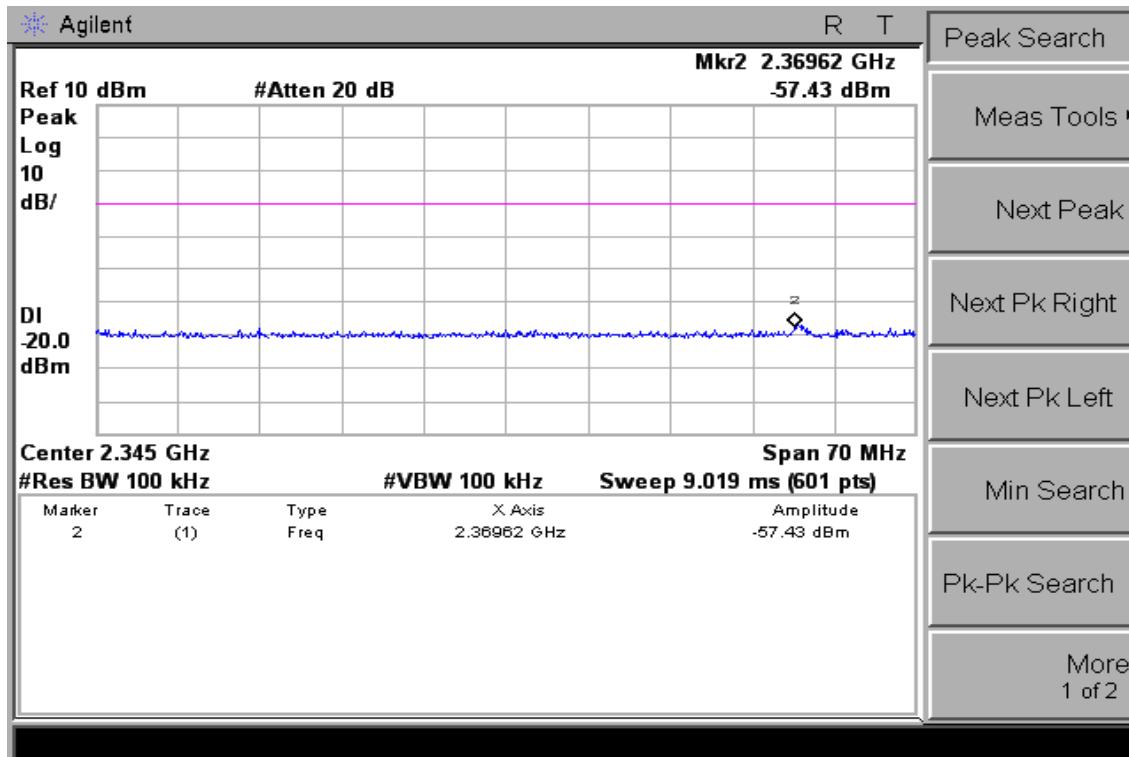
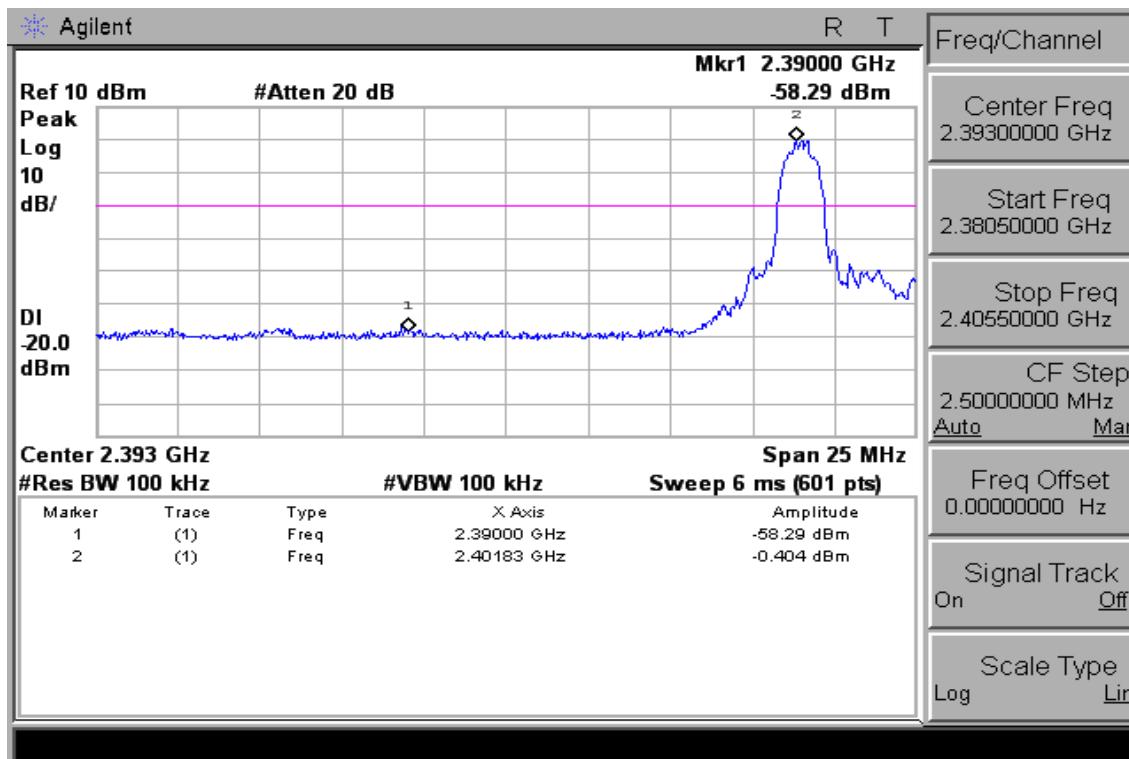
| | | | |
|-----------------------|------------|-----------|---------------|
| Operation Mode | TX CH High | Test Date | Dec. 13, 2008 |
| Fundamental Frequency | 2480 MHz | Test By | Jazz |
| Temperature | 25 °C | Pol | Hor. |
| Humidity | 65 % | | |

| 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) | | | |
| 2483.56 | 38.61 | --- | -0.92 | 37.69 | --- | 74.00 | 54.00 | -16.31 Peak |
| 2484.50 | 39.47 | --- | -0.92 | 38.55 | --- | 74.00 | 54.00 | -15.45 Peak |

Remark :

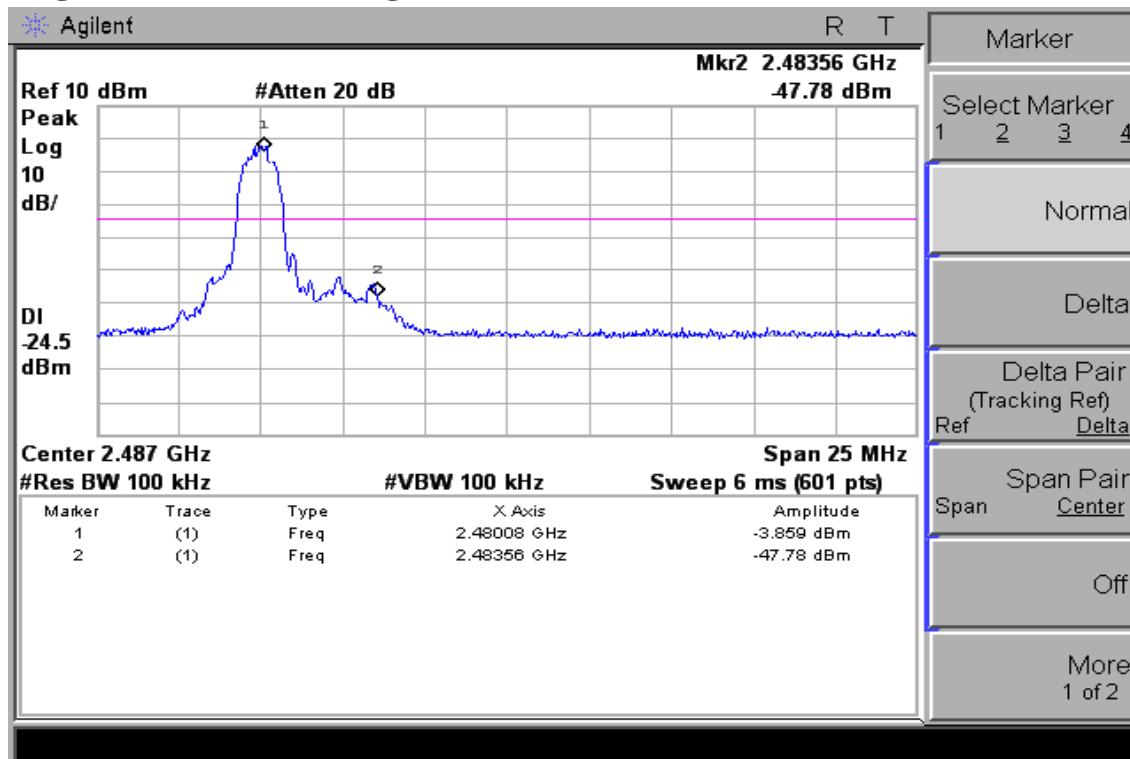
- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with 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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EDR Mode
Band Edges Test Data CH-Low


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Band Edges Test Data CH-High



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Radiated Emission:

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

Test Date Dec. 13, 2008
Test By Jazz
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) | | | |
| 2390.00 | 35.54 | --- | -1.39 | 34.15 | --- | 74.00 | 54.00 | -19.85 Peak |

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

Test Date Dec. 13, 2008
Test By Jazz
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) | | | |
| 2390.00 | 34.58 | --- | -1.39 | 33.19 | --- | 74.00 | 54.00 | -20.81 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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Radiated Emission:

| | | | |
|-----------------------|------------|-----------|---------------|
| Operation Mode | TX CH High | Test Date | Dec. 13, 2008 |
| Fundamental Frequency | 2480 MHz | Test By | Jazz |
| Temperature | 25 °C | Pol | Ver. |
| Humidity | 65 % | | |

| 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) | | |
| 2483.56 | 40.47 | --- | -0.92 | 39.55 | --- | 74.00 | 54.00 | -14.45 Peak |

| | | | |
|-----------------------|------------|-----------|---------------|
| Operation Mode | TX CH High | Test Date | Dec. 13, 2008 |
| Fundamental Frequency | 2480 MHz | Test By | Jazz |
| Temperature | 25 °C | Pol | Hor. |
| Humidity | 65 % | | |

| 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) | | |
| 2483.56 | 38.76 | --- | -0.92 | 37.84 | --- | 74.00 | 54.00 | -16.16 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. EUT Setup

1. The radiated emission tests were performed in the 3 meter open-test site, using the setup in accordance with the ANSI C63.4-2003.
2. The EUT was put on test table. The EUT was placed flushed with the rear of the table.

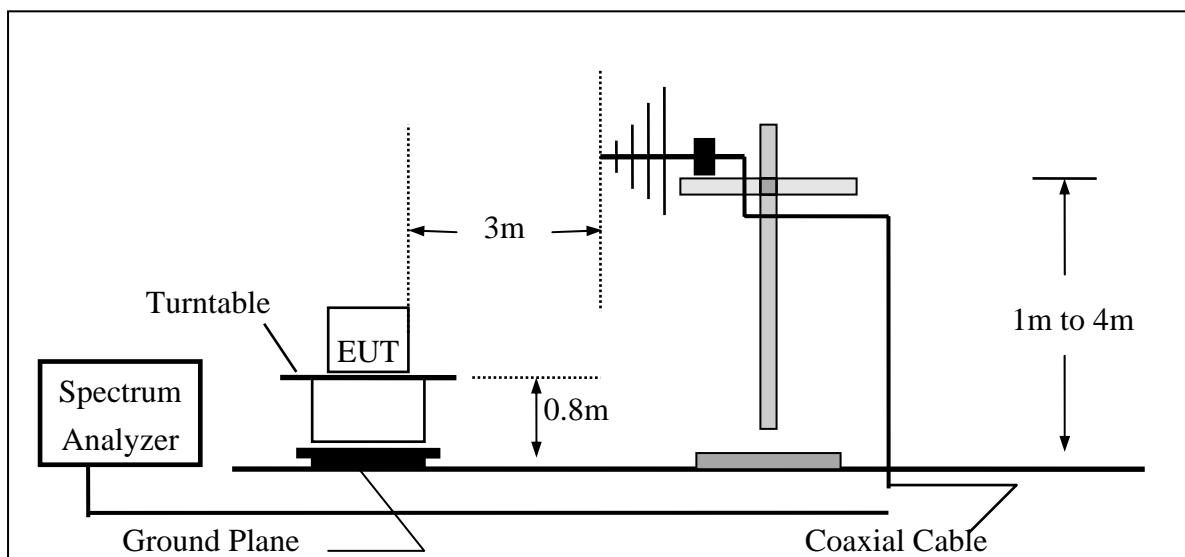
9.3. Measurement Procedure

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.

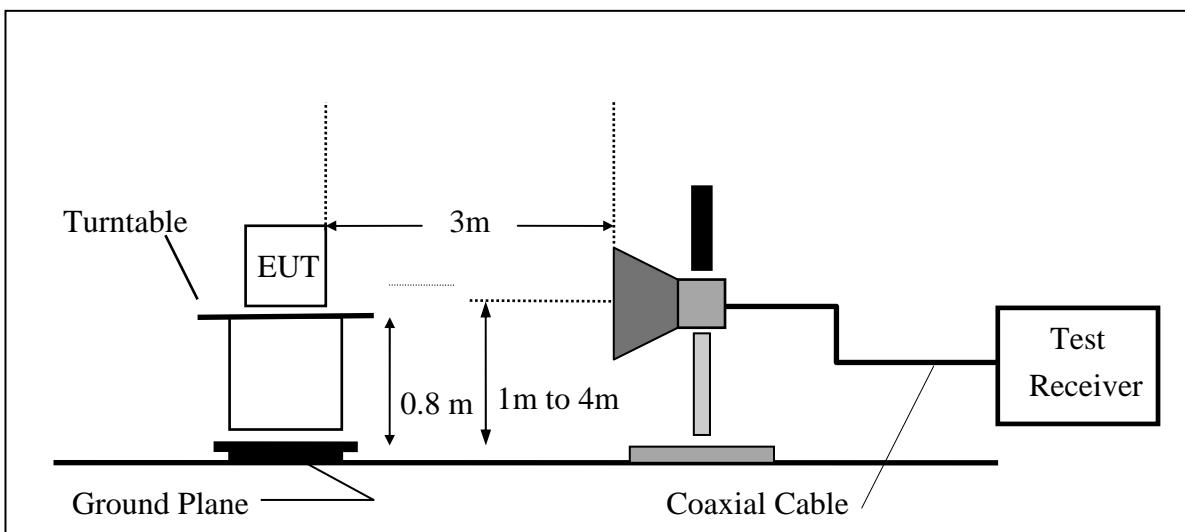
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9.4. Test SET-UP (Block Diagram of Configuration)

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



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



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9.5. Measurement Equipment Used:

| 966 Chamber | | | | | |
|-------------------|--------------|---------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/19/2008 | 04/18/2010 |
| Bilog Antenna | SCHWAZBECK | VULB9160 | 9160-3136 | 11/15/2008 | 11/14/2009 |
| Horn antenna | SCHWAZBECK | BBHA 9120D | 9120D-320 | 03/14/2008 | 03/13/2009 |
| Pre-Amplifier | Agilent | 8447D | 1937A02834 | 11/30/2008 | 11/29/2009 |
| Pre-Amplifier | Agilent | 8449B | 3008A01973 | 01/05/2008 | 01/04/2009 |
| 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 | 01/05/2008 | 01/04/2009 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA-3M | 3m | 01/05/2008 | 01/04/2009 |

9.6. 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 | |

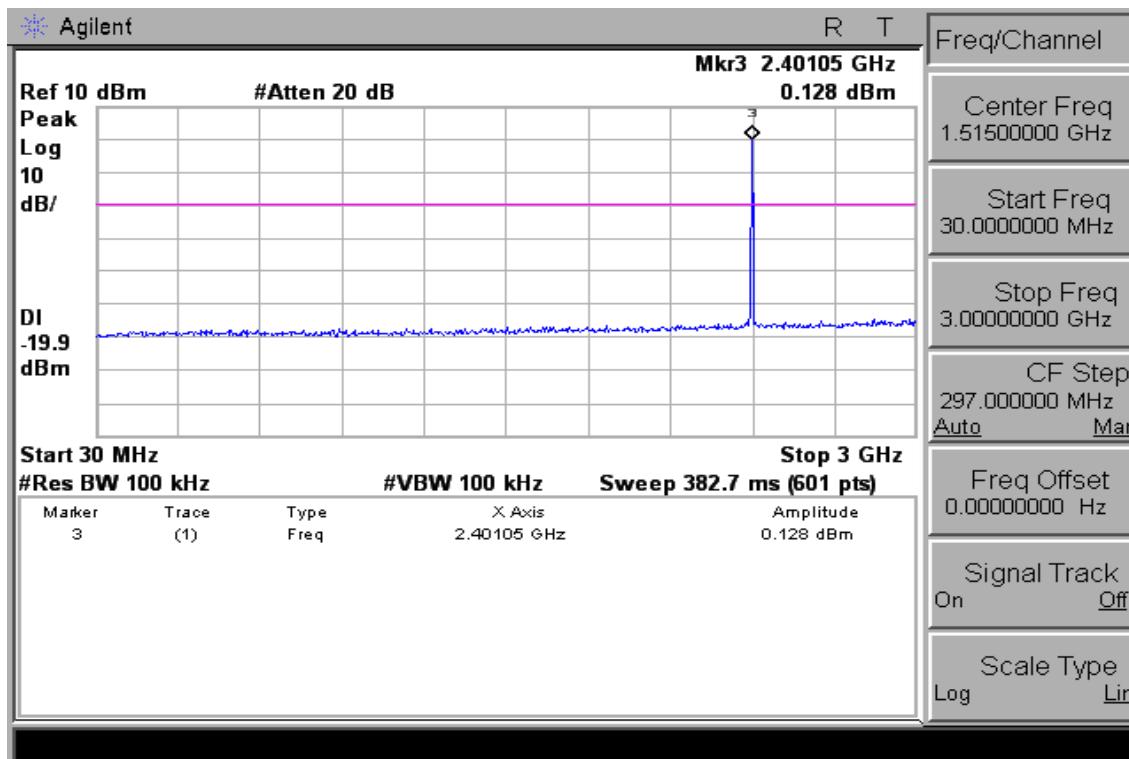
9.7. Measurement Result

Refer to attach tabular data sheets.

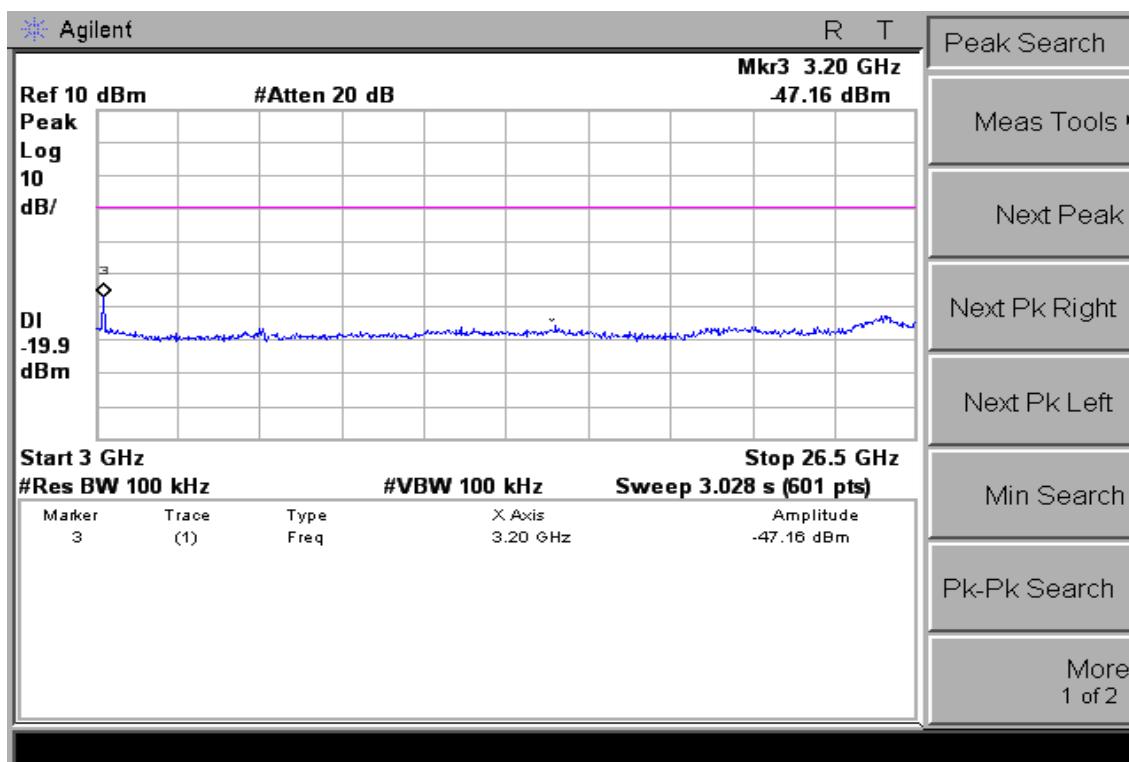
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BDR Mode Conducted Spurious Emission Measurement Result

Ch Low 30MHz – 3GHz

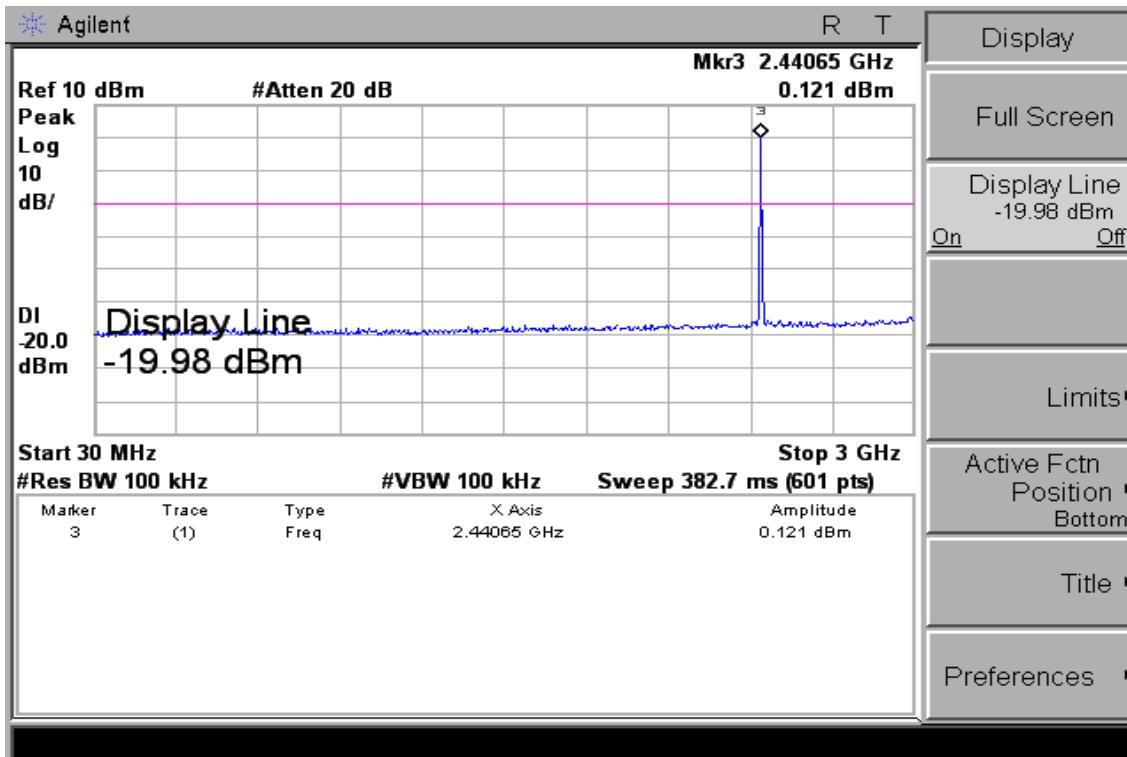


Ch Low 3GHz – 26.5GHz

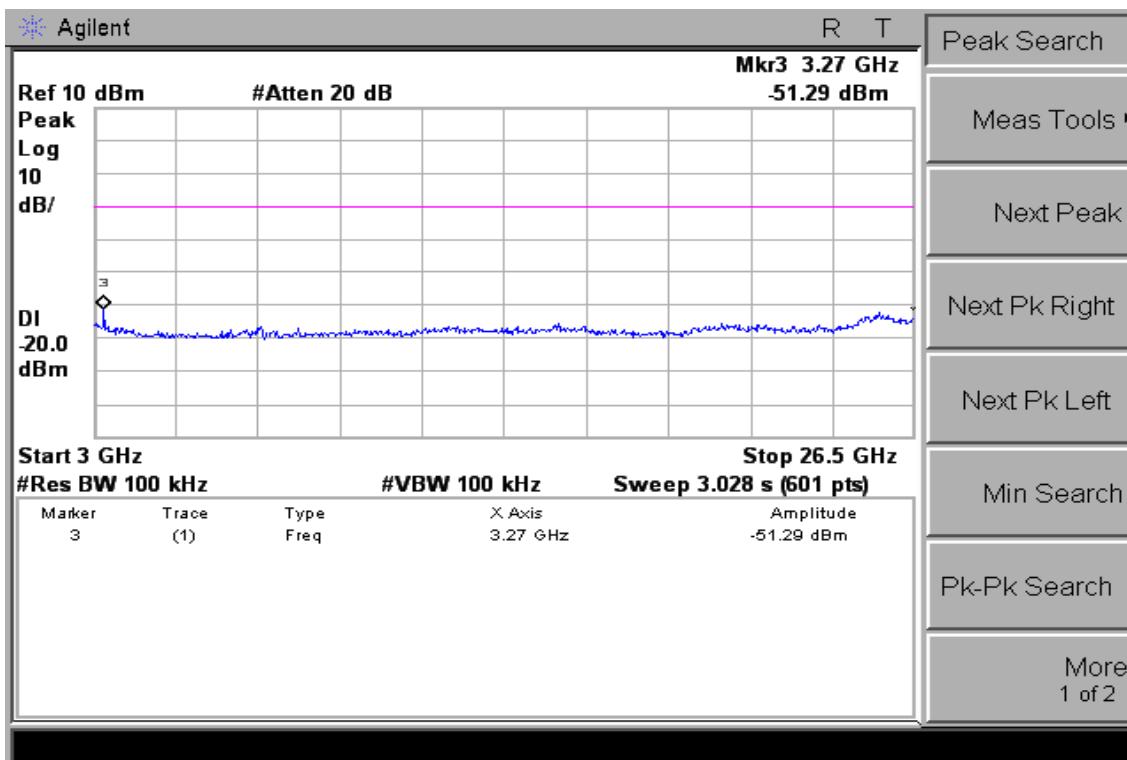


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Ch Mid 30MHz – 3GHz

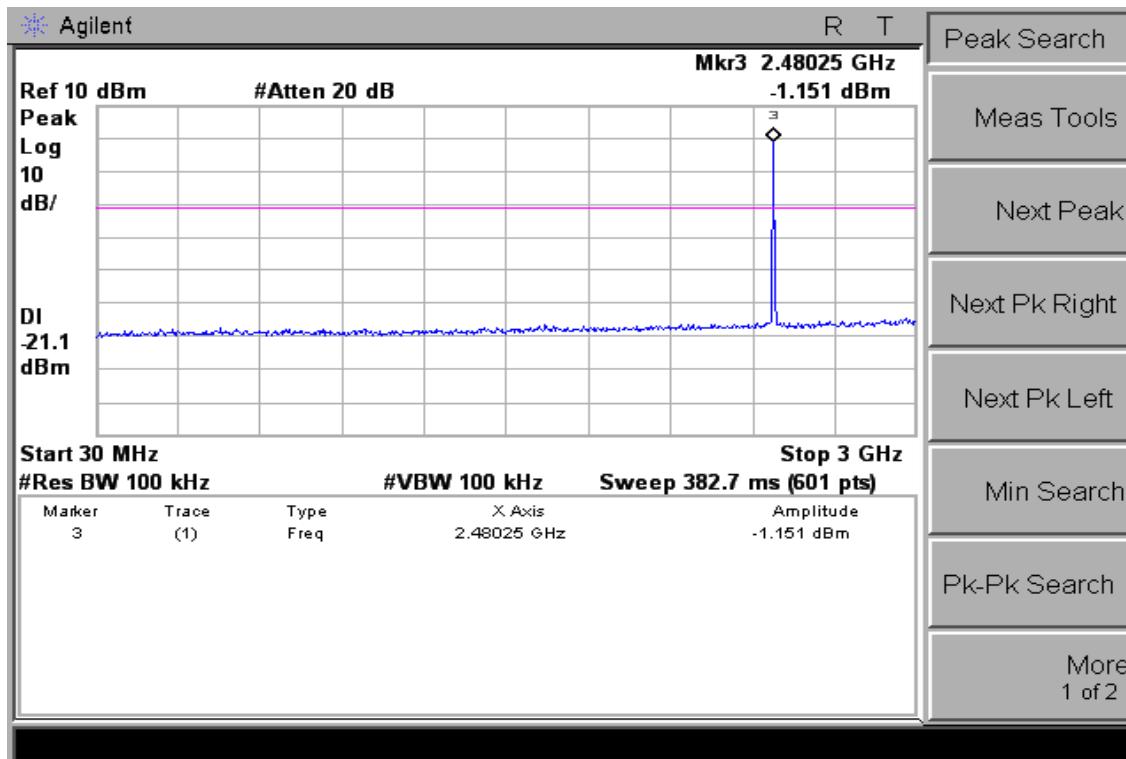


Ch Mid 3GHz – 26.5GHz

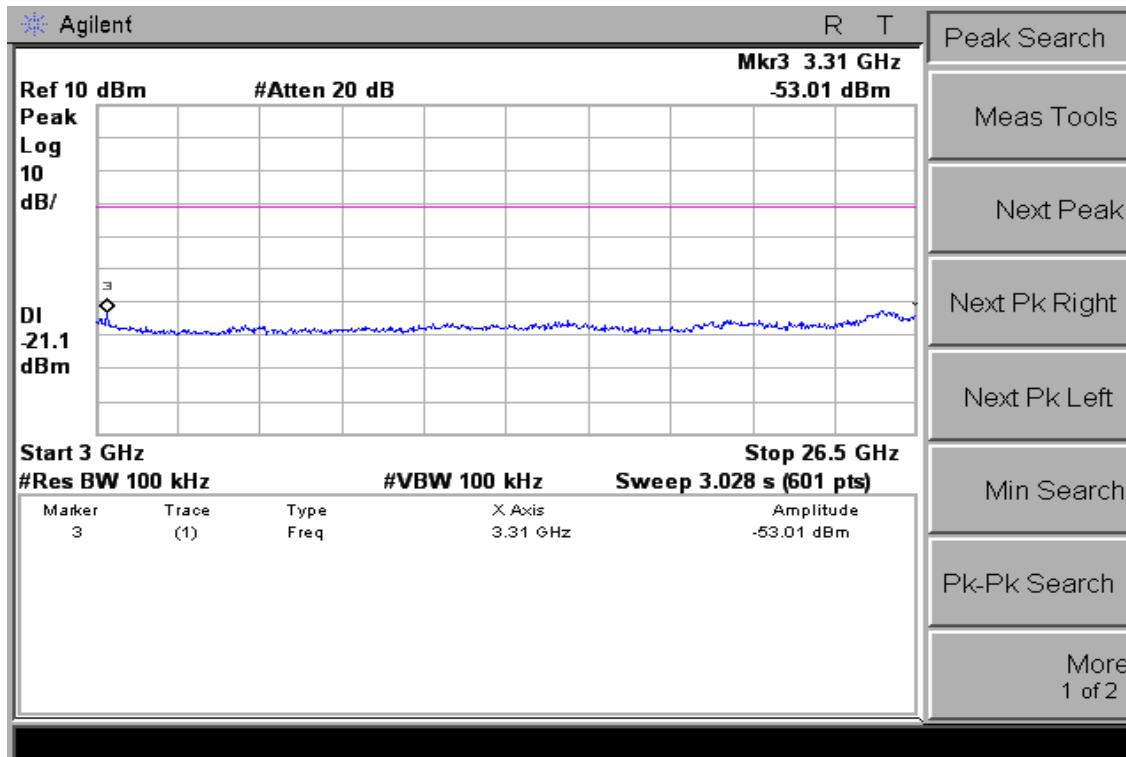


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Ch High 30MHz – 3GHz



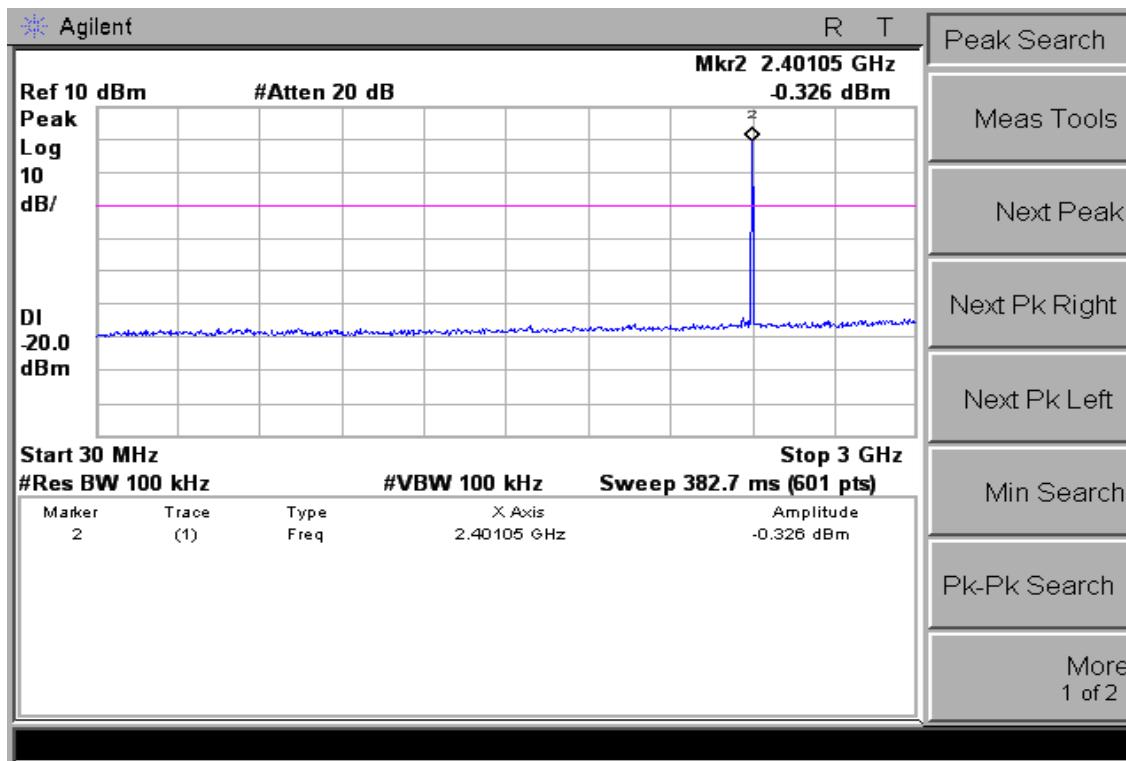
Ch High 3GHz – 26.5GHz



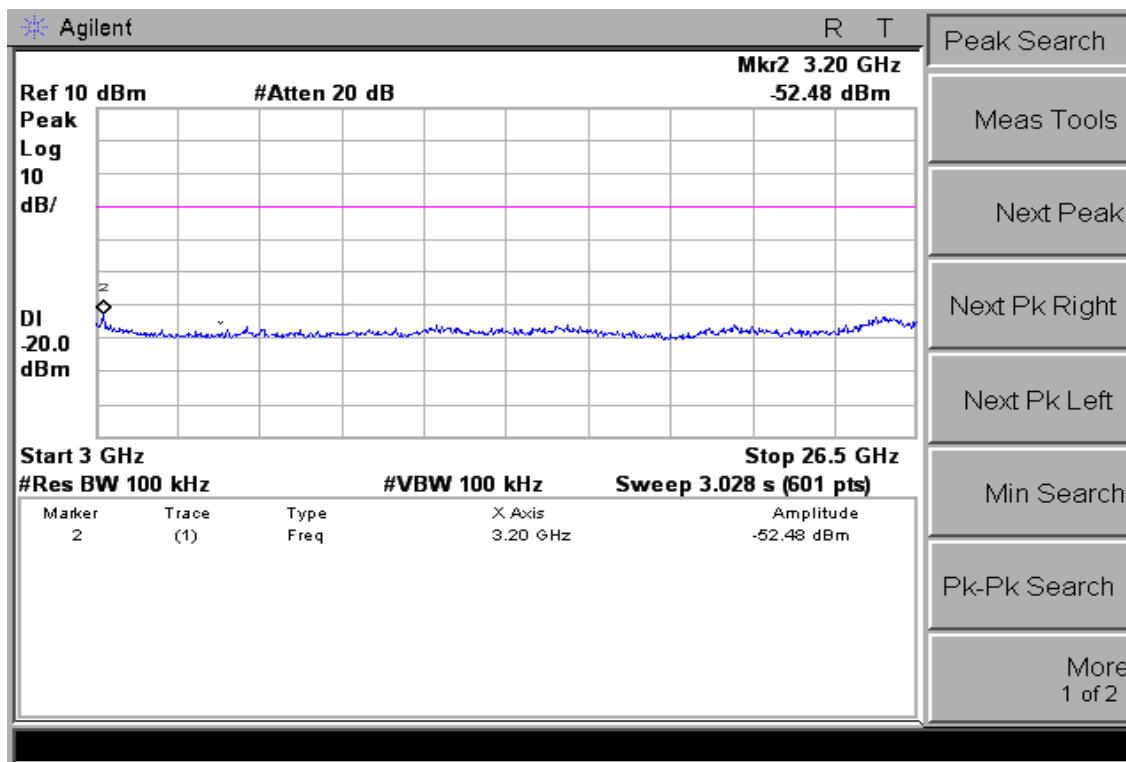
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EDR Mode Conducted Spurious Emission Measurement Result

Ch Low 30MHz – 3GHz

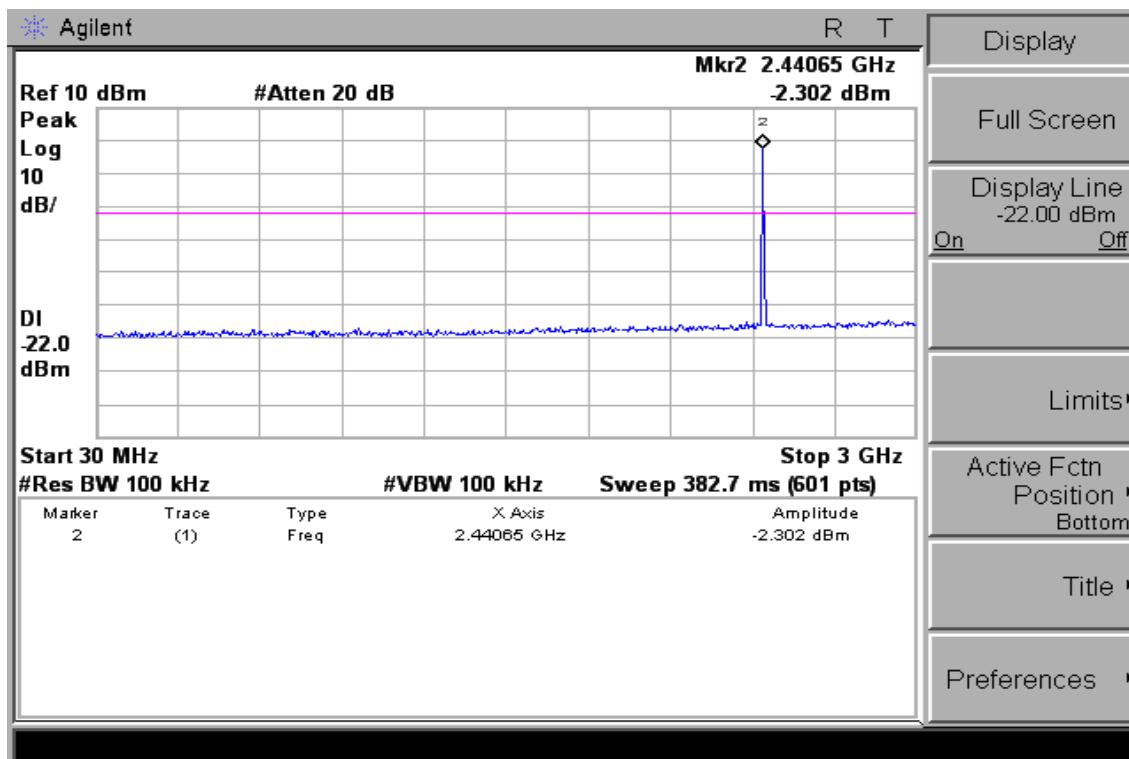


Ch Low 3GHz – 26.5GHz

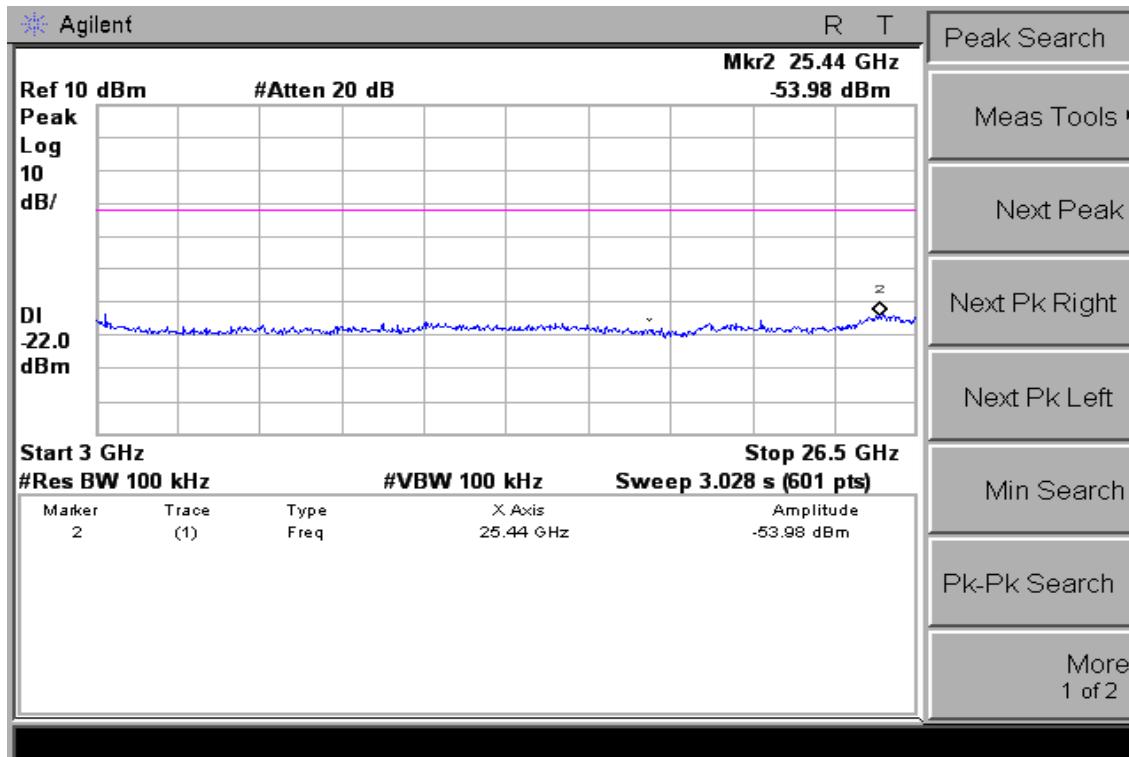


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Ch Mid 30MHz – 3GHz

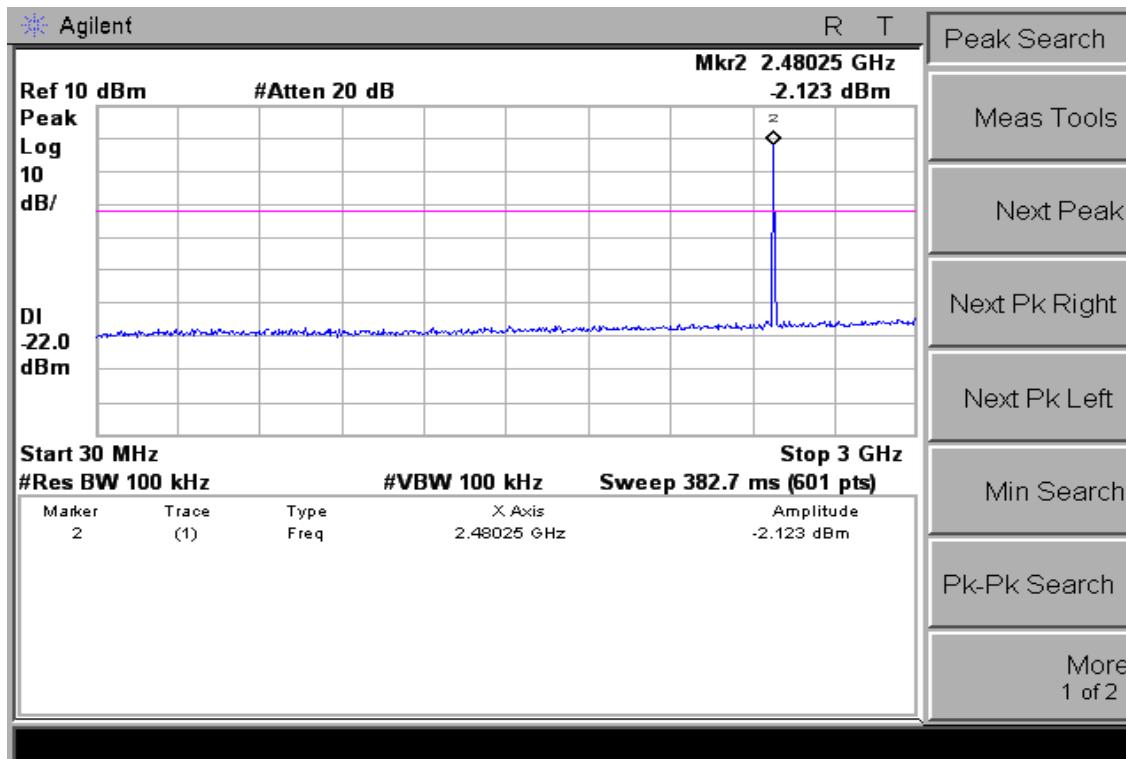


Ch Mid 3GHz – 26.5GHz

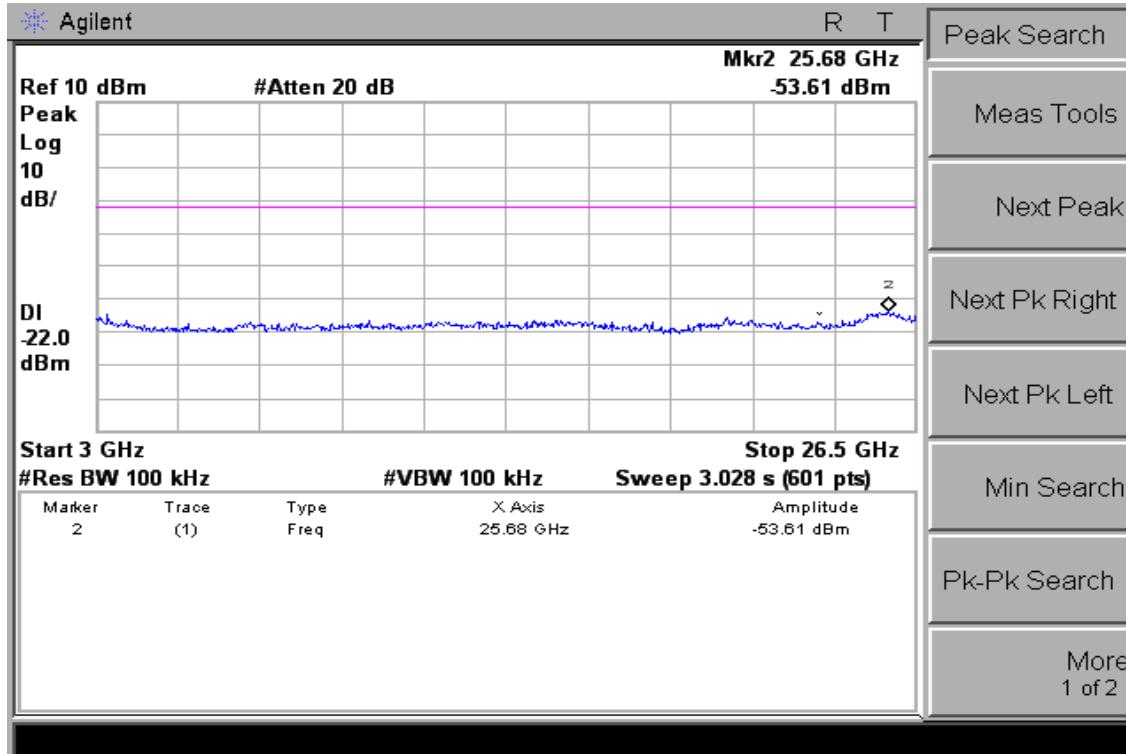


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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz



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BDR Mode**Radiated Spurious Emission Measurement Result (below 1GHz)**

| | | | |
|-----------------------|-----------|-----------|---------------|
| Operation Mode | TX CH Low | Test Date | Dec. 13, 2008 |
| Fundamental Frequency | 2402MHz | Test By | Jazz |
| Temperature | 25 °C | 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) |
|----------------|-----------------|-----------------------------|-------------------|----------------|-----------------------|---------------------|---------------------|
| 70.74 | V | Peak | 48.36 | -16.27 | 32.09 | 40.00 | -7.91 |
| 104.69 | V | Peak | 50.04 | -16.63 | 33.41 | 43.50 | -10.09 |
| 282.20 | V | Peak | 31.01 | -13.30 | 17.71 | 46.00 | -28.29 |
| 450.98 | V | Peak | 30.97 | -8.61 | 22.36 | 46.00 | -23.64 |
| 678.93 | V | Peak | 31.30 | -4.98 | 26.32 | 46.00 | -19.68 |
| 909.79 | V | Peak | 31.32 | -1.07 | 30.25 | 46.00 | -15.75 |
| 71.71 | H | Peak | 47.75 | -16.45 | 31.30 | 40.00 | -8.70 |
| 104.69 | H | Peak | 43.25 | -16.63 | 26.62 | 43.50 | -16.88 |
| 155.13 | H | Peak | 30.74 | -13.12 | 17.62 | 43.50 | -25.88 |
| 450.98 | H | Peak | 31.28 | -8.61 | 22.67 | 46.00 | -23.33 |
| 649.83 | H | Peak | 31.60 | -4.95 | 26.65 | 46.00 | -19.35 |
| 866.14 | H | Peak | 31.91 | -1.65 | 30.26 | 46.00 | -15.74 |

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 (below 1GHz)

| | | | |
|-----------------------|-----------|-----------|---------------|
| Operation Mode | TX CH Mid | Test Date | Dec. 13, 2008 |
| Fundamental Frequency | 2441MHz | Test By | Jazz |
| Temperature | 25 °C | 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) |
|------------------------|-------------------------|--------------------------------------|---------------------------|------------------------|-------------------------------|-----------------------------|-----------------------------|
| 70.74 | V | Peak | 46.59 | -16.27 | 30.32 | 40.00 | -9.68 |
| 104.69 | V | Peak | 48.68 | -16.63 | 32.05 | 43.50 | -11.45 |
| 463.59 | V | Peak | 31.28 | -8.55 | 22.73 | 46.00 | -23.27 |
| 615.88 | V | Peak | 31.77 | -5.70 | 26.07 | 46.00 | -19.93 |
| 846.74 | V | Peak | 32.01 | -2.04 | 29.97 | 46.00 | -16.03 |
| 945.68 | V | Peak | 30.81 | -1.01 | 29.80 | 46.00 | -16.20 |
| 70.74 | H | Peak | 49.64 | -16.27 | 33.37 | 40.00 | -6.63 |
| 104.69 | H | Peak | 43.25 | -16.63 | 26.62 | 43.50 | -16.88 |
| 421.88 | H | Peak | 32.18 | -9.34 | 22.84 | 46.00 | -23.16 |
| 609.09 | H | Peak | 32.00 | -5.83 | 26.17 | 46.00 | -19.83 |
| 824.43 | H | Peak | 32.09 | -2.52 | 29.57 | 46.00 | -16.43 |
| 897.18 | H | Peak | 31.26 | -1.11 | 30.15 | 46.00 | -15.85 |

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 (below 1GHz)

| | | | |
|-----------------------|------------|-----------|---------------|
| Operation Mode | TX CH High | Test Date | Dec. 13, 2008 |
| Fundamental Frequency | 2480MHz | Test By | Jazz |
| Temperature | 25 °C | 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) |
|------------------------|-------------------------|--------------------------------------|---------------------------|------------------------|-------------------------------|-----------------------------|-----------------------------|
| 70.74 | V | Peak | 47.02 | -16.27 | 30.75 | 40.00 | -9.25 |
| 104.69 | V | Peak | 48.59 | -16.63 | 31.96 | 43.50 | -11.54 |
| 153.19 | V | Peak | 31.34 | -13.00 | 18.34 | 43.50 | -25.16 |
| 407.33 | V | Peak | 32.02 | -9.82 | 22.20 | 46.00 | -23.80 |
| 604.24 | V | Peak | 31.65 | -5.92 | 25.73 | 46.00 | -20.27 |
| 882.63 | V | Peak | 30.93 | -1.42 | 29.51 | 46.00 | -16.49 |
| 70.74 | H | Peak | 49.83 | -16.27 | 33.56 | 40.00 | -6.44 |
| 104.69 | H | Peak | 44.68 | -16.63 | 28.05 | 43.50 | -15.45 |
| 153.19 | H | Peak | 30.24 | -13.00 | 17.24 | 43.50 | -26.26 |
| 455.83 | H | Peak | 30.98 | -8.61 | 22.37 | 46.00 | -23.63 |
| 657.59 | H | Peak | 31.79 | -4.98 | 26.81 | 46.00 | -19.19 |
| 853.53 | H | Peak | 32.07 | -1.93 | 30.14 | 46.00 | -15.86 |

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)

| | | | |
|-----------------------|-----------|-----------|---------------|
| Operation Mode | TX CH Low | Test Date | Dec. 13, 2008 |
| Fundamental Frequency | 2402 MHz | Test By | Jazz |
| Temperature | 25 °C | 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 | 33.33 | --- | 6.04 | 39.37 | --- | 74.00 | 54.00 | -14.63 Peak |
| 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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Radiated Spurious Emission Measurement Result (above 1GHz)

| | | | |
|-----------------------|-----------|-----------|---------------|
| Operation Mode | TX CH Low | Test Date | Dec. 13, 2008 |
| Fundamental Frequency | 2402 MHz | Test By | Jazz |
| Temperature | 25 °C | Pol | Hor. |
| 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 | 33.21 | --- | 6.04 | 39.25 | --- | 74.00 | 54.00 | -14.75 Peak |
| 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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Radiated Spurious Emission Measurement Result (above 1GHz)

| | | | |
|-----------------------|-----------|-----------|---------------|
| Operation Mode | TX CH Mid | Test Date | Dec. 13, 2008 |
| Fundamental Frequency | 2441 MHz | Test By | Jazz |
| Temperature | 25 °C | 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) | | |
| 4882.0 | 32.53 | --- | 6.17 | 38.70 | --- | 74.00 | 54.00 | -15.30 Peak |
| 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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Radiated Spurious Emission Measurement Result (above 1GHz)

| | | | |
|-----------------------|-----------|-----------|---------------|
| Operation Mode | TX CH Mid | Test Date | Dec. 13, 2008 |
| Fundamental Frequency | 2441 MHz | Test By | Jazz |
| Temperature | 25 °C | Pol | Hor. |
| 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) | | |
| 4882.0 | 33.41 | --- | 6.17 | 39.58 | --- | 74.00 | 54.00 | -14.42 Peak |
| 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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Radiated Spurious Emission Measurement Result (above 1GHz)

| | | | |
|-----------------------|------------|-----------|---------------|
| Operation Mode | TX CH High | Test Date | Dec. 13, 2008 |
| Fundamental Frequency | 2480 MHz | Test By | Jazz |
| Temperature | 25 °C | 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) | | |
| 4960.0 | 33.08 | --- | 6.36 | 39.44 | --- | 74.00 | 54.00 | -14.56 Peak |
| 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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Radiated Spurious Emission Measurement Result (above 1GHz)

| | | | |
|-----------------------|------------|-----------|---------------|
| Operation Mode | TX CH High | Test Date | Dec. 13, 2008 |
| Fundamental Frequency | 2480 MHz | Test By | Jazz |
| Temperature | 25 °C | Pol | Hor. |
| 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) | |
| 4960.0 | 33.38 | --- | 6.36 | 39.74 | --- | 74.00 | 54.00 | -14.26 Peak |
| 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 20dB bandwidth of the hopping channel, whichever is greater.

10.2. 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=3KHz, Adjust Span to 3.0 MHz, Sweep = auto.
5. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

10.3. Measurement Result

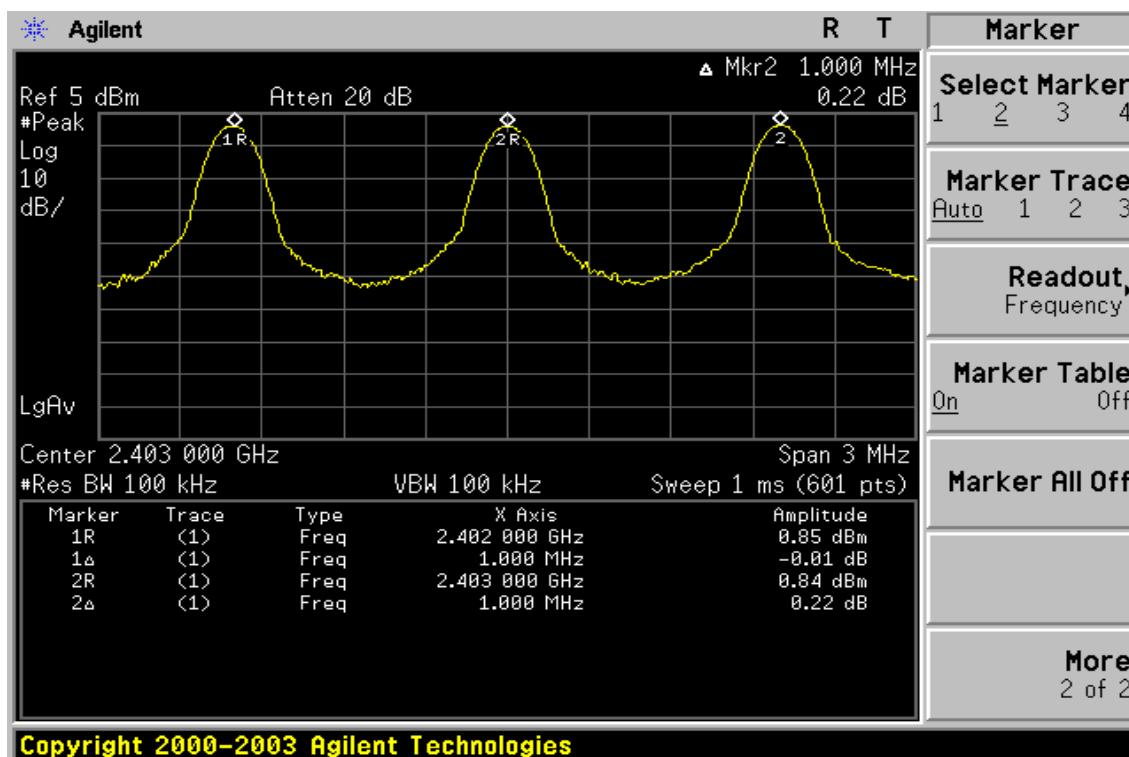
| Channel separation (MHz) | Limit | Result |
|-----------------------------|--|--------|
| 1 | >=25KHz or 2/3 times 20dB bandwidth | PASS |

10.4. Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|--------------------|------------------|--------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/19/2008 | 04/18/2010 |
| Spectrum Analyzer | Agilent | E4440A | MY45304525 | 01/23/2008 | 01/22/2010 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | 02/13/2008 | 02/12/2009 |
| Attenuator | Mini-Circuit | BW-S6W5 | 001 | 07/05/2008 | 07/04/2009 |
| Attenuator | Mini-Circuit | BW-S10W5 | 001 | 07/05/2008 | 07/04/2009 |
| Attenuator | Mini-Circuit | BW-S20W5 | 001 | 07/05/2008 | 07/04/2009 |

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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 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, VBW=100KHz,
5. Max hold, view and count how many channel in the band.

11.3. Measurement Result

Refer to next page for the plots.

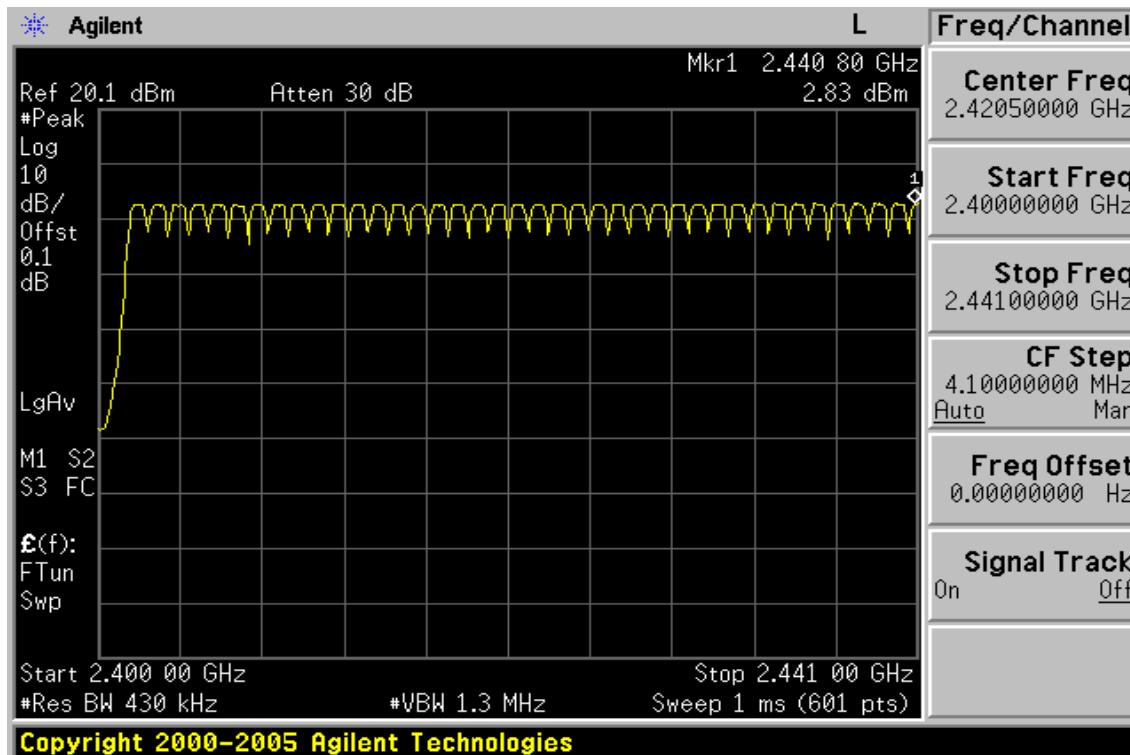
11.4. Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/19/2008 | 04/18/2010 |
| Spectrum Analyzer | Agilent | E4440A | MY45304525 | 01/23/2008 | 01/22/2010 |
| DC Block | Agilent | BLK-18 | 155452 | 07/05/2008 | 07/04/2009 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | 02/13/2008 | 02/12/2009 |
| Attenuator | Mini-Circuit | BW-S6W5 | 001 | 07/05/2008 | 07/04/2009 |
| Attenuator | Mini-Circuit | BW-S10W5 | 001 | 07/05/2008 | 07/04/2009 |
| Attenuator | Mini-Circuit | BW-S20W5 | 001 | 07/05/2008 | 07/04/2009 |

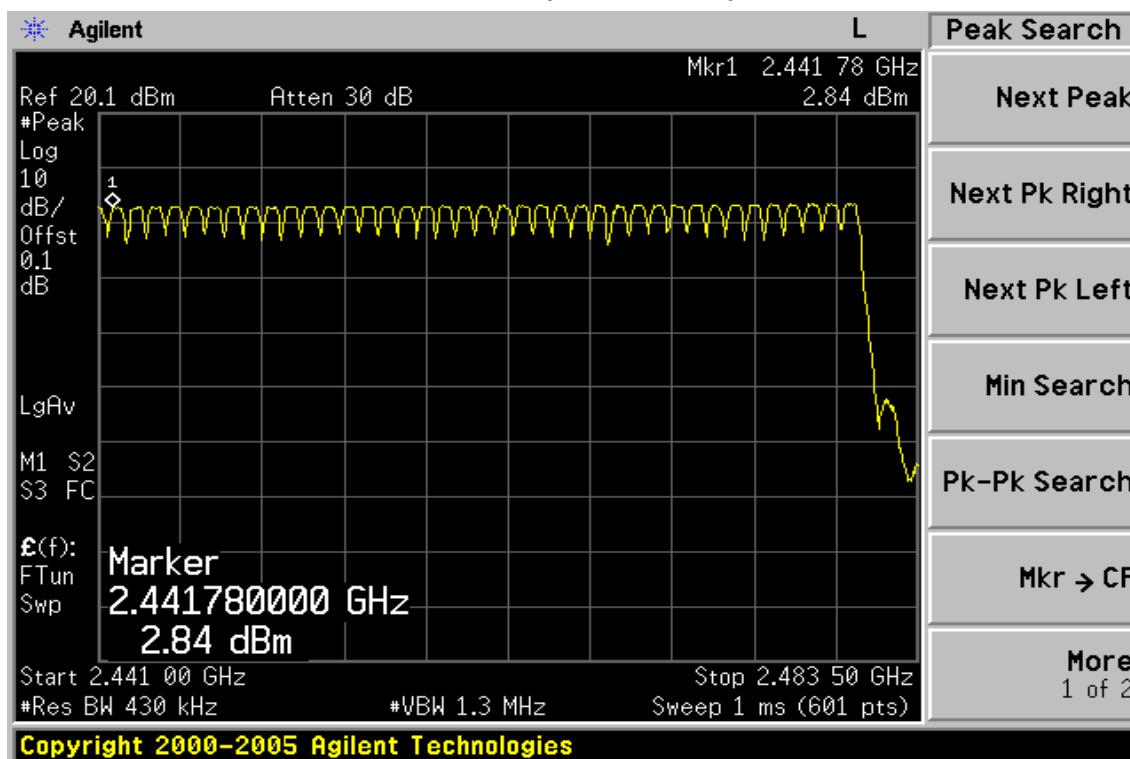
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Channel Number

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 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 = 0Hz , Adjust Sweep = 30s.
5. Repeat above procedures until all frequency measured were complete.

12.3. Measurement Result

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

CH Low: DH1 time slot = $0.417 \text{ (ms)} * (1600/(2*79)) * 31.6 = 133.44 \text{ (ms)}$

 DH3 time slot = $1.667 \text{ (ms)} * (1600/(4*79)) * 31.6 = 266.72 \text{ (ms)}$

 DH5 time slot = $2.925 \text{ (ms)} * (1600/(6*79)) * 31.6 = 312.00 \text{ (ms)}$

CH Mid: DH1 time slot = $0.417 \text{ (ms)} * (1600/(2*79)) * 31.6 = 133.44 \text{ (ms)}$

 DH3 time slot = $1.667 \text{ (ms)} * (1600/(4*79)) * 31.6 = 266.72 \text{ (ms)}$

 DH5 time slot = $2.925 \text{ (ms)} * (1600/(6*79)) * 31.6 = 312.00 \text{ (ms)}$

CH High: DH1 time slot = $0.417 \text{ (ms)} * (1600/(2*79)) * 31.6 = 133.44 \text{ (ms)}$

 DH3 time slot = $1.667 \text{ (ms)} * (1600/(4*79)) * 31.6 = 266.72 \text{ (ms)}$

 DH5 time slot = $2.925 \text{ (ms)} * (1600/(6*79)) * 31.6 = 312.00 \text{ (ms)}$

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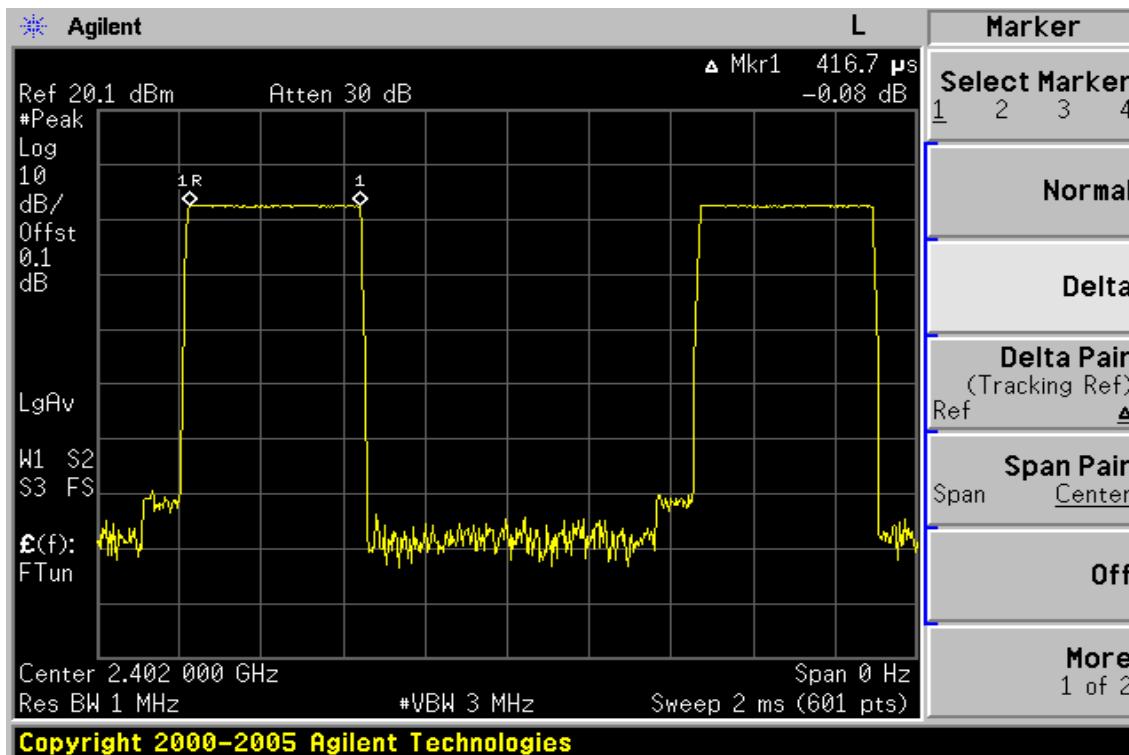
12.4. Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/19/2008 | 04/18/2010 |
| Spectrum Analyzer | Agilent | E4440A | MY45304525 | 01/23/2008 | 01/22/2010 |
| DC Block | Agilent | BLK-18 | 155452 | 07/05/2008 | 07/04/2009 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | 02/13/2008 | 02/12/2009 |
| Attenuator | Mini-Circuit | BW-S6W5 | 001 | 07/05/2008 | 07/04/2009 |
| Attenuator | Mini-Circuit | BW-S10W5 | 001 | 07/05/2008 | 07/04/2009 |
| Attenuator | Mini-Circuit | BW-S20W5 | 001 | 07/05/2008 | 07/04/2009 |

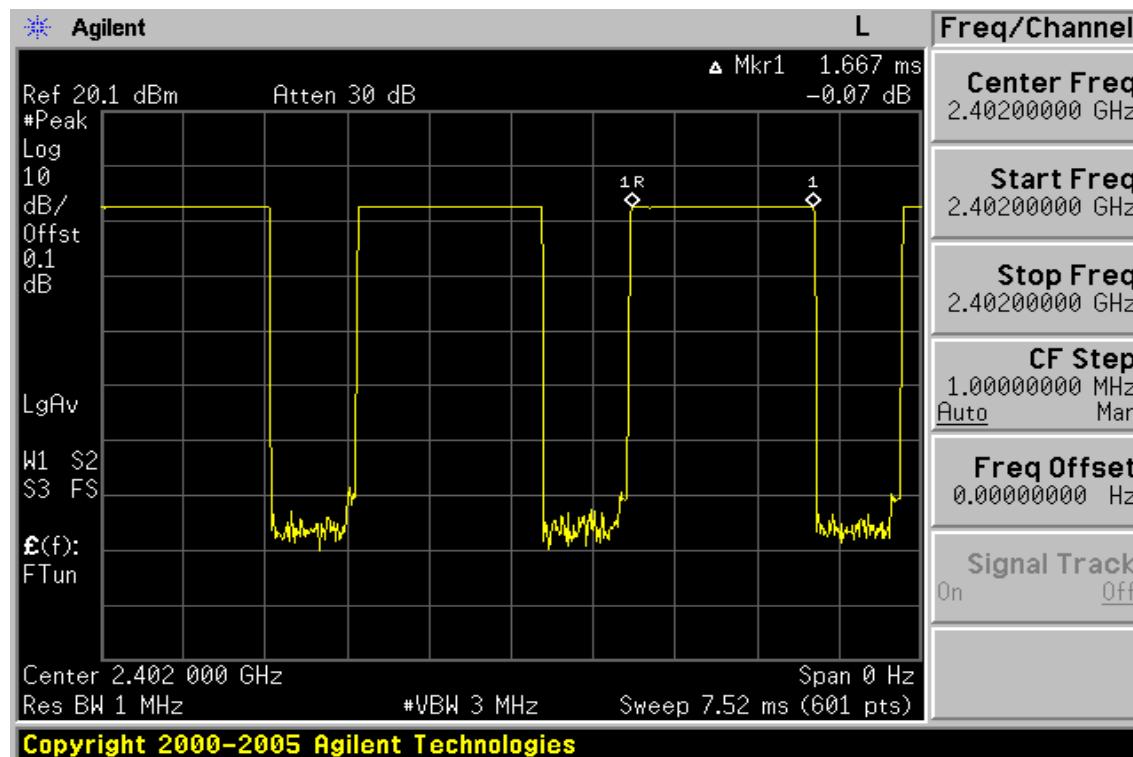
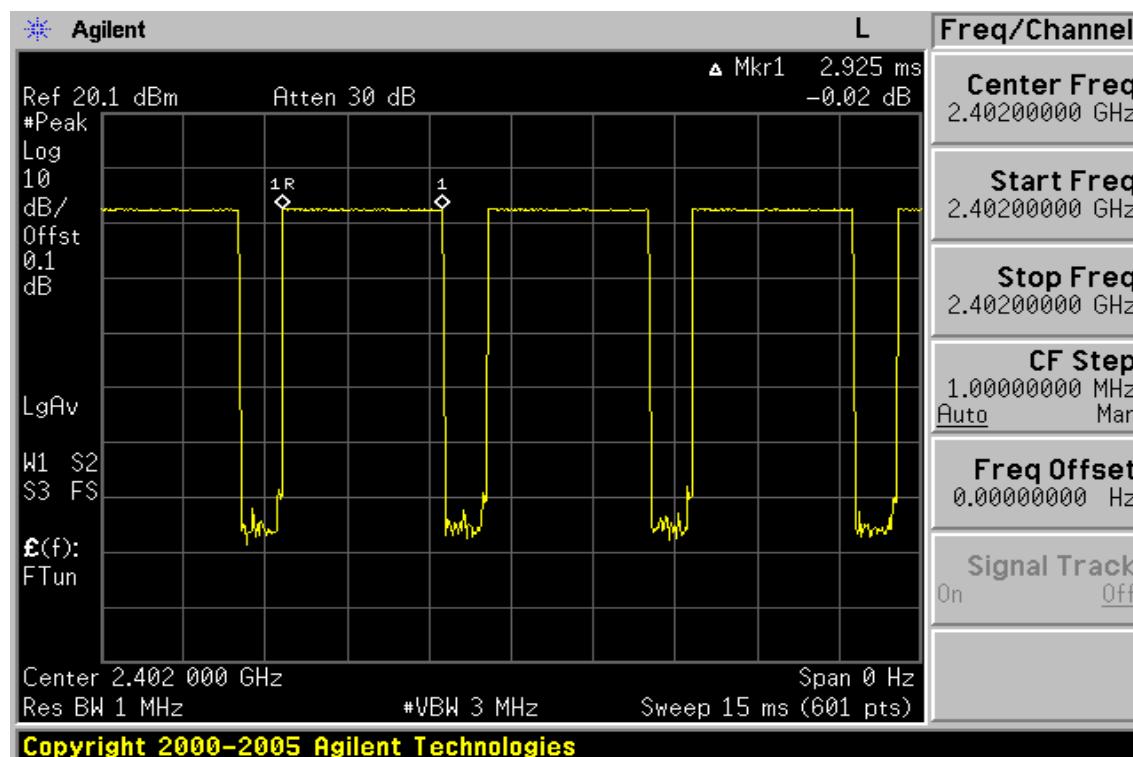
Dwell Time Test Data

CH-Low

DH1



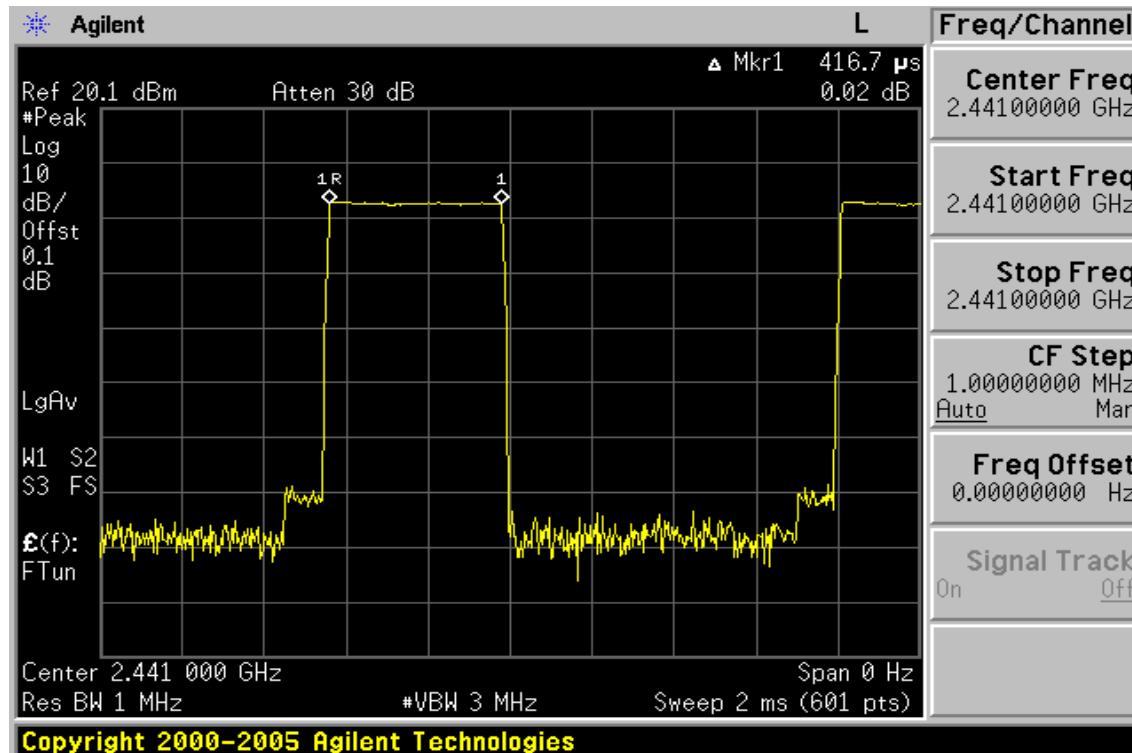
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DH3**DH5**

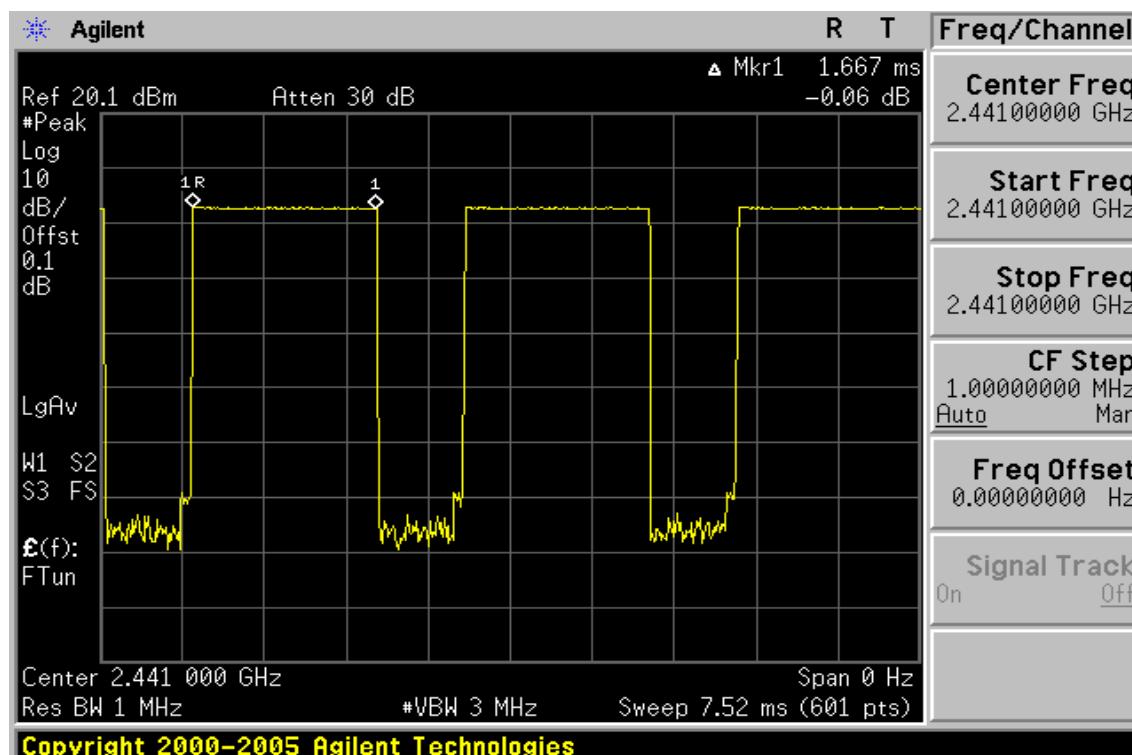
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CH-Mid

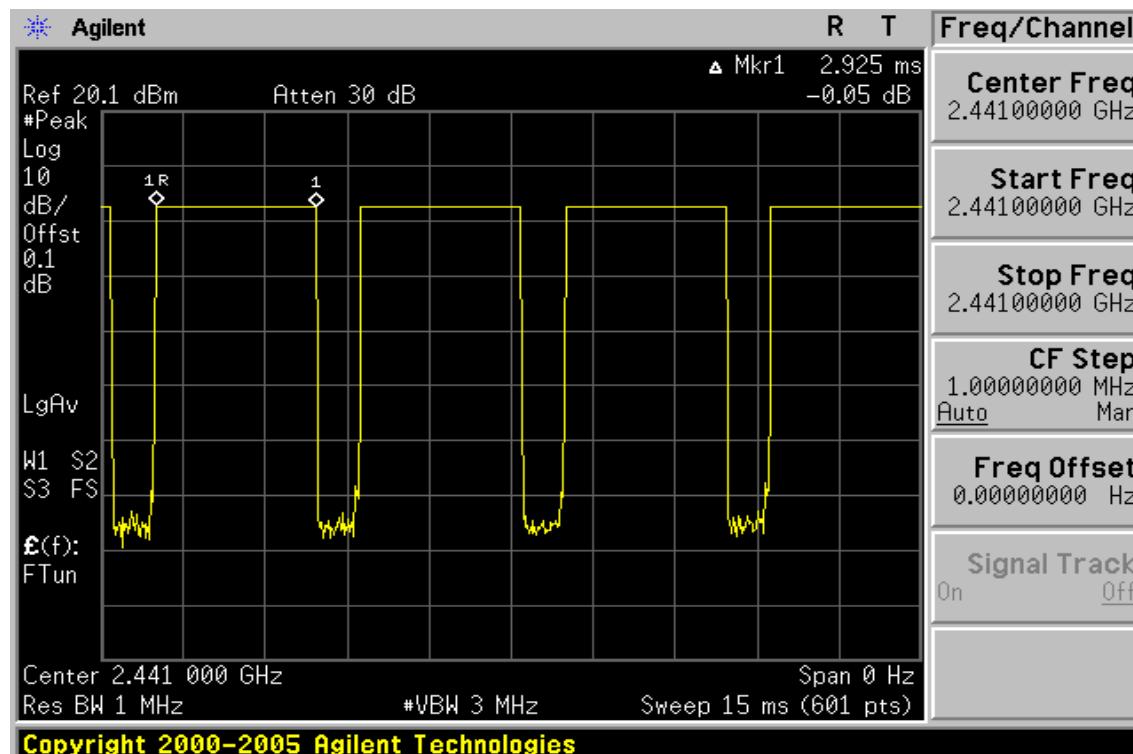
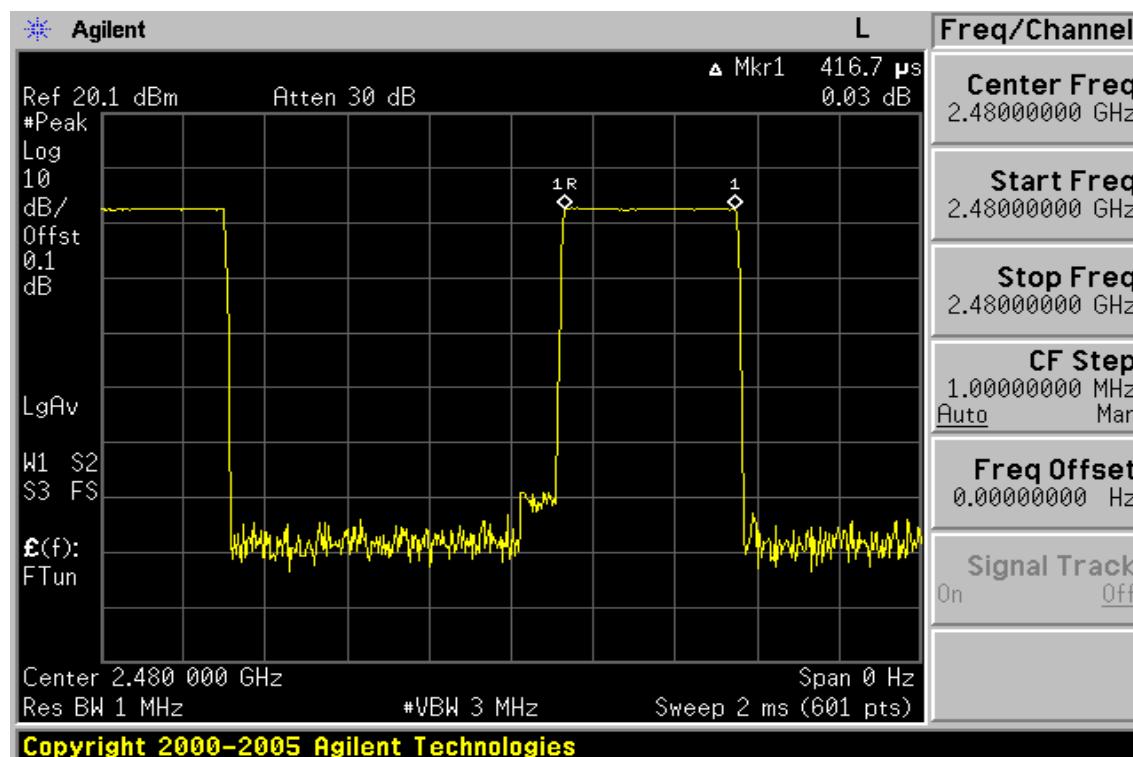
DH1



DH3

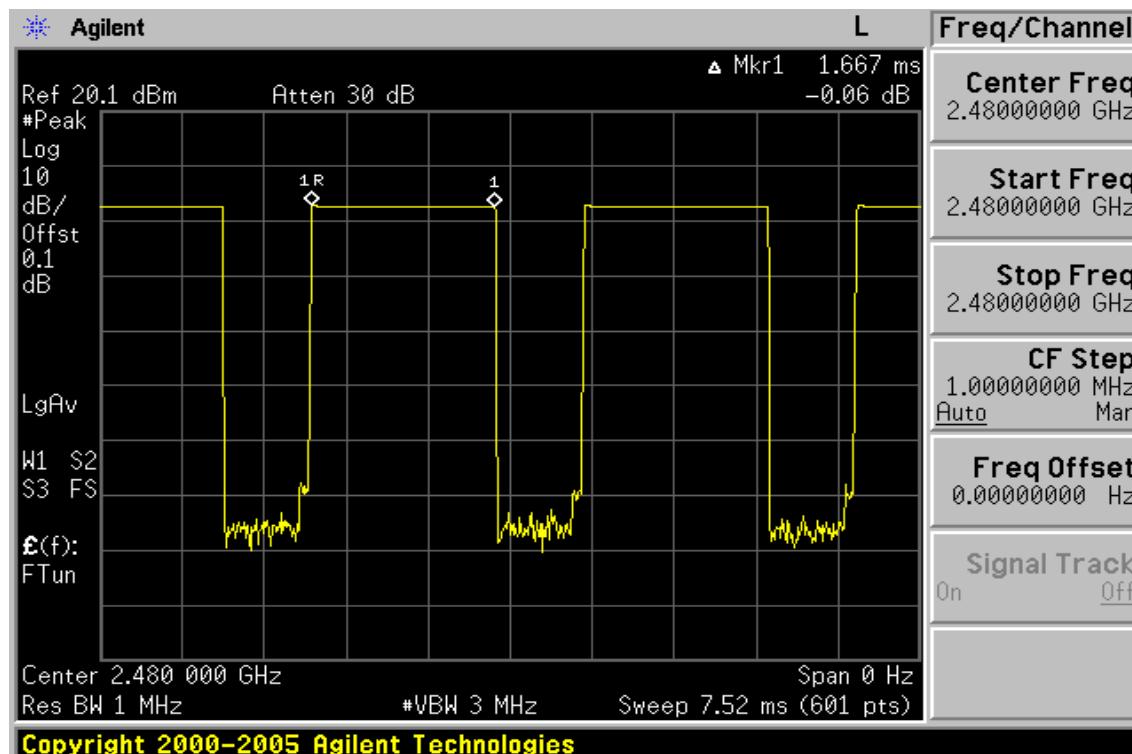


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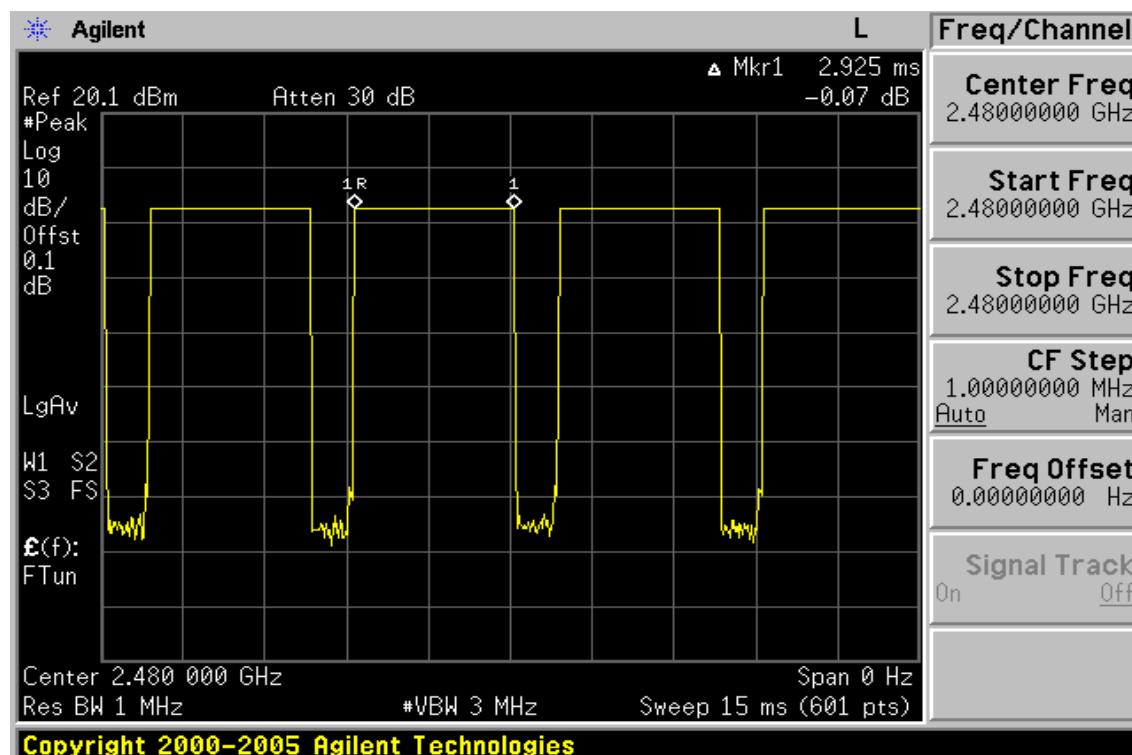
DH5

CH-High
DH1


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DH3



DH5



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13. Peak Power Spectral Density

13.1. Standard Applicable

According to §15.247(d), for direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3kHz band during any time interval of continuous transmission.

13.2. 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 = 3KHz, VBW = 10KHz, Span = 1.5MHz, Sweep=100s
4. Record the max. reading.
5. Repeat above procedures until all frequency measured were complete.

13.3. Measurement Result

BDR Mode

| CH | RF Power Density Reading (dBm) | Cable loss (dB) | RF Power Density Level (dBm) | Maximum Limit (dBm) |
|------|--------------------------------|-----------------|------------------------------|---------------------|
| Low | -10.47 | 0.10 | -10.37 | 8 |
| Mid | -10.51 | 0.10 | -10.41 | 8 |
| High | -11.25 | 0.10 | -11.15 | 8 |

EDR Mode

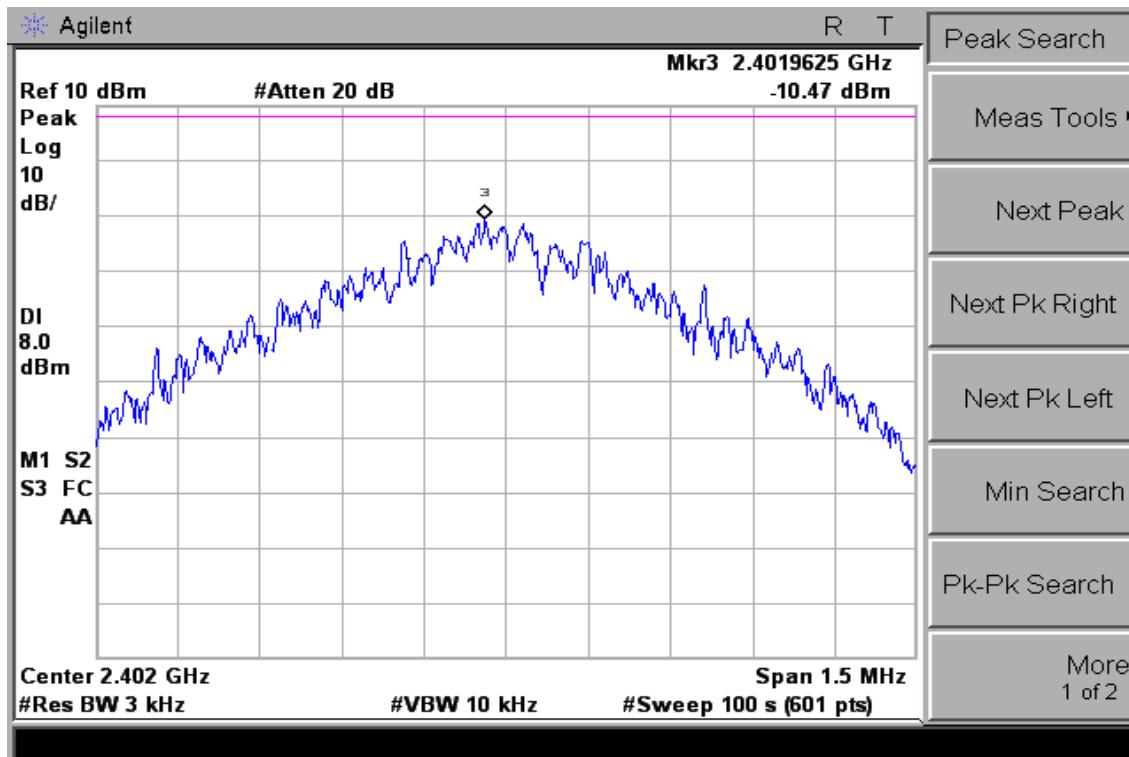
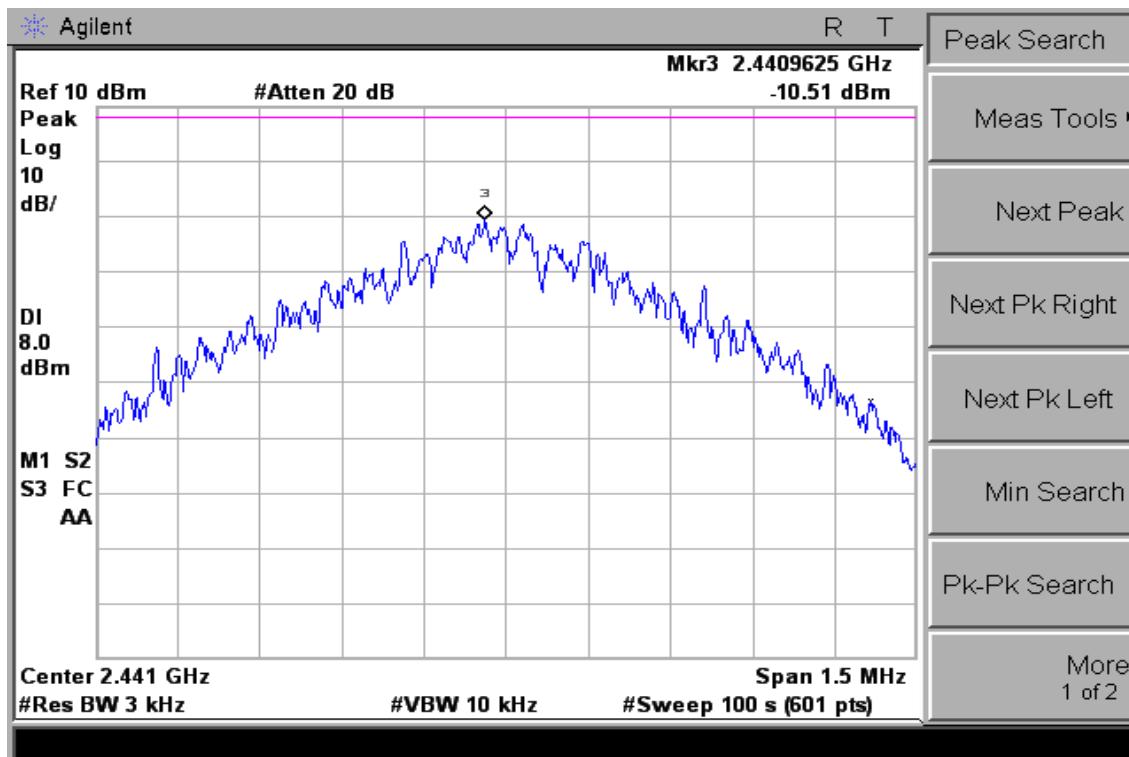
| CH | RF Power Density Reading (dBm) | Cable loss (dB) | RF Power Density Level (dBm) | Maximum Limit (dBm) |
|------|--------------------------------|-----------------|------------------------------|---------------------|
| Low | -13.91 | 0.10 | -13.81 | 8 |
| Mid | -14.34 | 0.10 | -14.24 | 8 |
| High | -16.03 | 0.10 | -15.93 | 8 |

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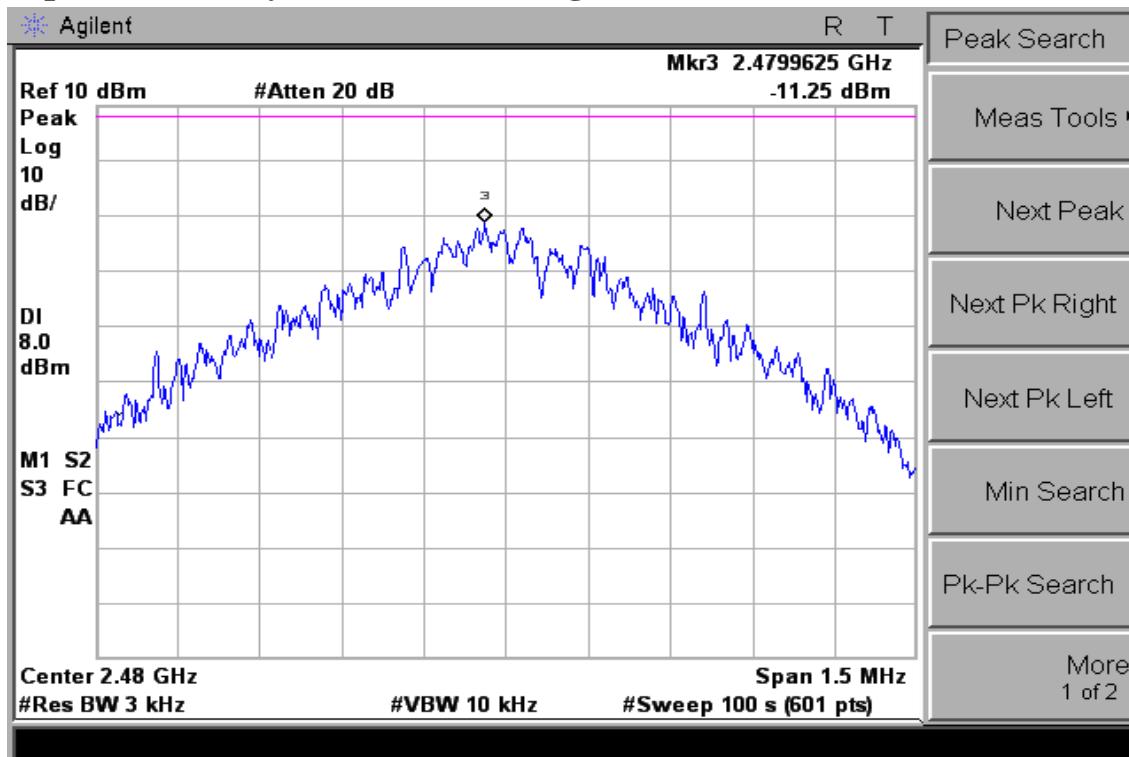
13.4. Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | E4446A | MY43360126 | 04/19/2008 | 04/18/2010 |
| Spectrum Analyzer | Agilent | E4440A | MY45304525 | 01/23/2008 | 01/22/2010 |
| DC Block | Agilent | BLK-18 | 155452 | 07/05/2008 | 07/04/2009 |
| Low Loss Cable | HUBER+SUHNER | SUCOFLEX 104PEA | N/A | 02/13/2008 | 02/12/2009 |
| Attenuator | Mini-Circuit | BW-S6W5 | 001 | 07/05/2008 | 07/04/2009 |
| Attenuator | Mini-Circuit | BW-S10W5 | 001 | 07/05/2008 | 07/04/2009 |
| Attenuator | Mini-Circuit | BW-S20W5 | 001 | 07/05/2008 | 07/04/2009 |

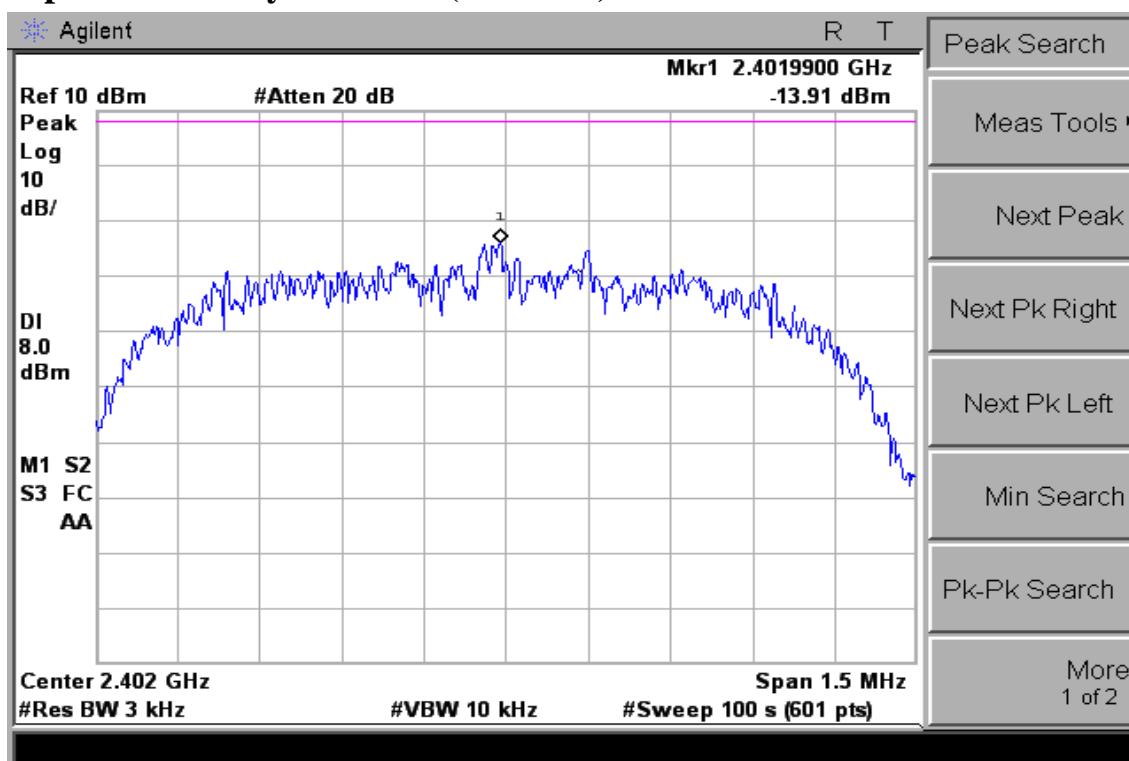
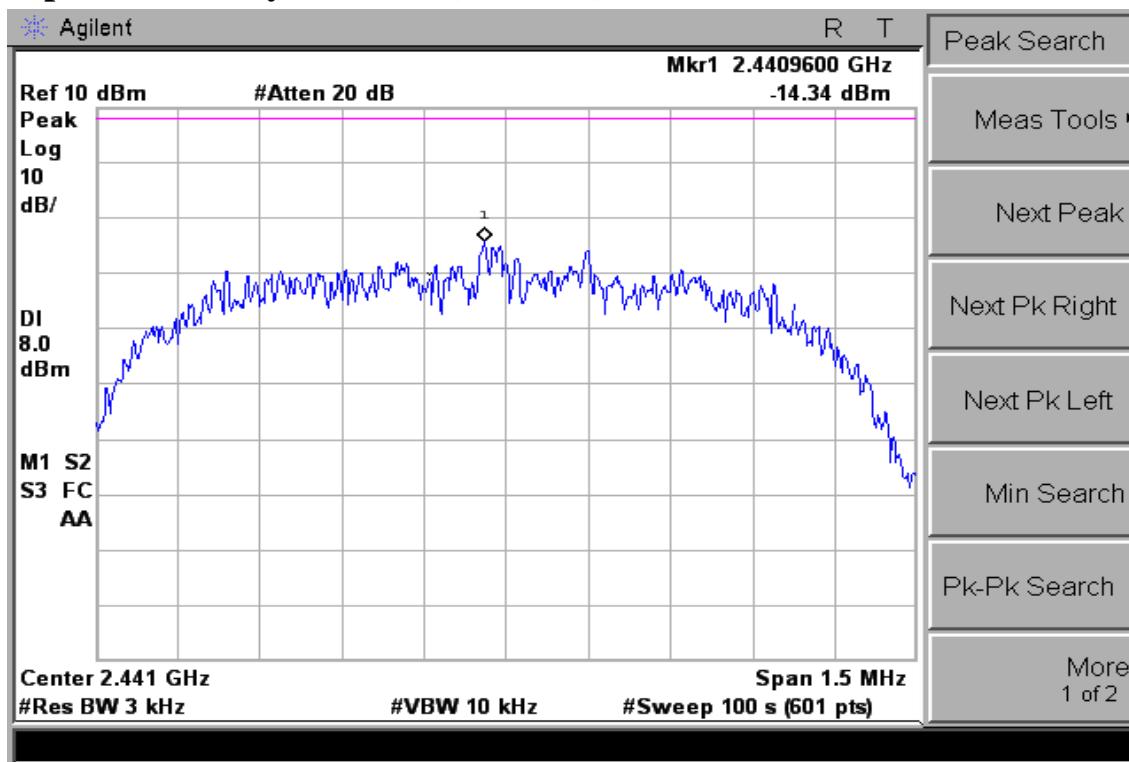
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BDR Mode**Power Spectral Density Test Plot (CH-Low)****Power Spectral Density Test Plot (CH-Mid)**

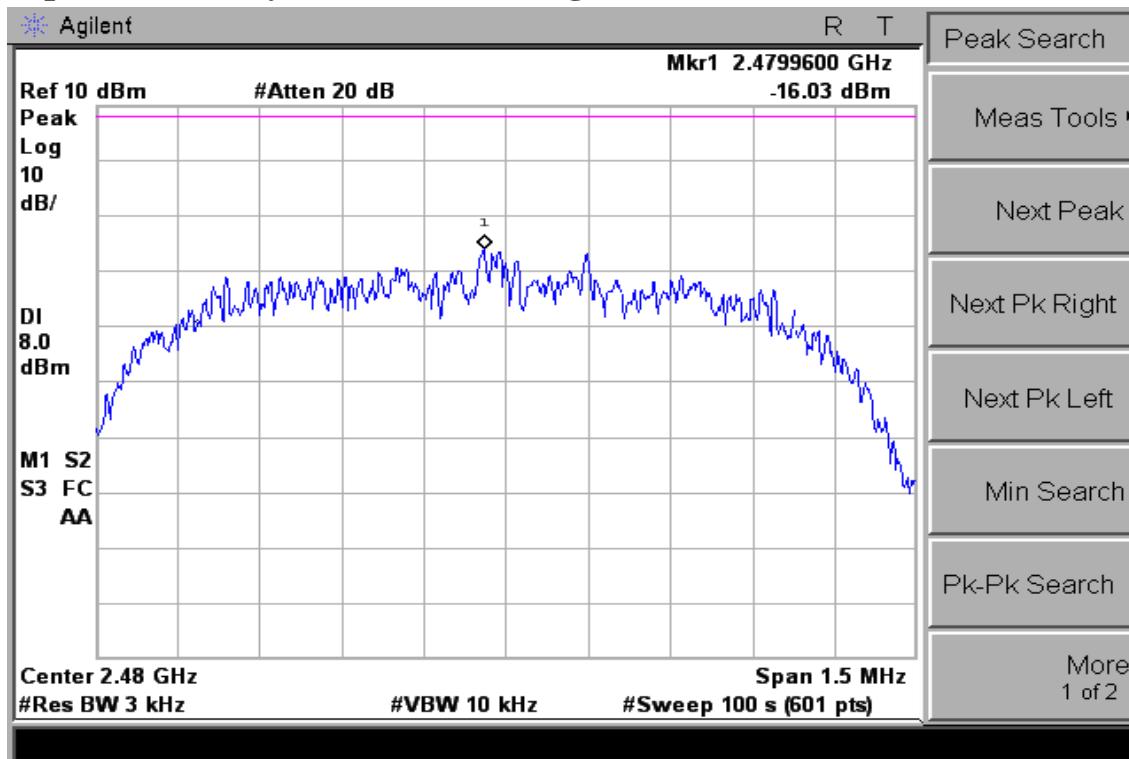
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Power Spectral Density Test Plot (CH-High)

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EDR Mode**Power Spectral Density Test Plot (CH-Low)****Power Spectral Density Test Plot (CH-Mid)**

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Power Spectral Density Test Plot (CH-High)

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14. ANTENNA REQUIREMENT

14.1. Standard Applicable

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 §15.246(1), if transmitting antennas of directional gain greater than 6dBi are used the power shall be reduced by the amount in 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 2.1dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

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