



MOTOROLA

MOBILE DEVICES BUSINESS

**PRODUCT SAFETY AND COMPLIANCE
EMC LABORATORY**

EMC TEST REPORT - Addendum

Test Report Number – 16837-1BT

Report Date – November 9, 2005

The test results contained herein relate only to the model(s) identified. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics.

As the responsible EMC Engineer, I hereby declare that the equipment tested as specified in this report conforms to the requirements indicated.

A handwritten signature in blue ink that reads "Michael E. Hill".

Signature:

Name: Michael E. Hill

Title: Senior Staff Electrical Engineer

Date: 11/09/2005

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A2LA Certificate Number: 1651.01



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 AC LINE CONDUCTED **Error! Bookmark not defined.**7

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 Bluetooth Channel 0 2402MHz TX Mode Neutral Coupling Hopping..... 58

 Bluetooth Channel 0 2441MHz TX Mode Line Coupling Nonhopping 58

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Bookmark not defined.9

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Test Report Details

Tests Performed By: Motorola Mobile Devices business
Product Safety and Compliance Group
600 North US Hwy 45
Libertyville, IL 60048
PH (847) 523-6167 Fax (847) 523-4538
Motorola PCS FRN: 0004321311
FCC Registration Number: 316588
Industry Canada Number: IC3908

Radiated Emissions
Performed By: Underwriters Laboratories
International EMC Services
333 Pfingsten RD
Northbrook, IL 60062
Contact: Lubomir Madjarov
(Tel) 847/664-3957
(Fax) 847/313-3957

Tests Requested By: Motorola Inc.
Mobile Devices business
600 North US Hwy 45
Libertyville, IL 60048

Product Type: A1200

Signaling Capability: GSM850,1900, Bluetooth

Model Number: CHWF1397

Serial Numbers: NA

Testing Complete Date: November 2, 2005

Applicable Standards

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

- Part 15 Subpart C – Intentional Radiators
- Part 22 Subpart H - Public Mobile Services
- Part 24 - Personal Communications Services
- Part 90 - Private Land Mobile Radio Service

Applicable Standards: TIA EIA 137-A, TIA EIA 98-C, ANSI 63.4 2001, RSS-118 (AMPS), RSS-128 (TDMA), RSS-129 (CDMA), RSS-133 (PCS)

DA 00-705, "Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems" published by the Federal Communications Commission was also used in the testing of this product.

Summary of Testing

| Test | Test Name | Pass/Fail |
|------|--------------------------------------|-----------|
| 1 | Carrier Frequency Separation | Result |
| 2 | Number of Hopping Frequencies | Result |
| 3 | Time of Occupancy (Dwell Time) | Result |
| 4 | 20 dB Bandwidth | Result |
| 5 | Spurious RF Conducted Emissions | Result |
| 6 | Field Strength of Spurious Emissions | Result |
| 7 | Max Power | N/A |
| 8 | Band Edges | See plots |
| 9 | Conducted Spurious Emissions | Result |

| Test | Test Name | Results |
|------|--------------------------------------|-----------|
| 1 | Carrier Frequency Separation | 1.0 MHz |
| 2 | Number of Hopping Frequencies | 79 |
| 3 | Time of Occupancy (Dwell Time) | 2.862 ms |
| 4 | 20 dB Bandwidth | 1.0 MHz |
| 5 | Spurious RF Conducted Emissions | See plots |
| 6 | Field Strength of Spurious Emissions | See plots |
| 7 | Peak Output Power | 1.028 dBm |
| 8 | Band Edges | See plots |
| 9 | Conducted Spurious Emissions | See plots |

The margin with respect to the limit is the minimum margin for all modes and bands. () indicates the margin at which the product exceeds the limit.

General and Special Conditions

The EUT was tested using a fully charged battery when applicable. Where a battery could not be used due to the need for a controlled variation of input voltage, an external power supply was utilized.

All testing was done in an indoor controlled environment with an average temperature of 22° C and relative humidity of 50%.

Equipment and Cable Configurations

The EUT was tested in a stand-alone configuration that is representative of typical use.

Measuring Equipment and Calibration Information

| Manufacturer | Equipment Type | Model No. | Serial Number | Cal. Due Date |
|---------------------|-----------------------|------------------|----------------------|----------------------|
| Rohde & Schwarz | Receiver | ESI26 | 838786/010 | 2/7/2006 |
| Hewlett-Packard | EMC Analyzer | 7405 | US39440191 | 11/13/2005 |
| ETS | DRG Horn Antenna | 265 | 2455 | 5/25/2006 |
| ETS | DRG Horn Antenna | 3115 | 6222 | 2/9/2006 |
| ETS | Log-Periodic Antenna | 3148 | 1188 | 6/14/2006 |
| ETS | Biconical Antenna | 3110B | 3370 | 2/16/2006 |
| Attenuator | Weinschel | AS-6 | 6675 | 12/27/2005 |
| Attenuator | Weinschel | AS-6 | 6677 | 11/4/2005 |
| Rohde & Schwarz | Mobile Test Set | CMD 80 | DE29008 | N/A |
| Hewlett-Packard | Signal Generator | 83623B | 3844A01195 | 5/23/2006 |
| Thermotron | Environmental Chamber | S-4 | 31580 | 1/18/2006 |
| Giga-Tronics | Power Meter | 8651A | 8650508 | 12/27/2005 |

U.L. Equipment

| | | | | |
|-----------------|--------------------------|----------|------------|-----------|
| Hewlett Packard | QP Adapter | 85650A | 2811A01069 | 1/6/2006 |
| Hewlett Packard | S/A Display | 8566B | 2542A12974 | 1/6/2006 |
| Hewlett Packard | S/A | 8566B | 2637A03376 | 1/6/2006 |
| Hewlett Packard | RF Preselector | 85685A | 2810A00692 | 1/6/2006 |
| Rohde & Schwarz | S/A | FSEK20 | DE2525315 | 3/15/2006 |
| EMCO | Horn Antenna 1-18GHz | 3115 | 2638 | 7/29/2006 |
| EMCO | Horn Antenna 18-26.5GHz | 3160-09 | 9904-1165 | N/A* |
| Chase | Bi-Con Antenna 30-300MHz | VBA6106A | 1246 | 7/22/2006 |
| Chase | Log-Periodic Antenna | UPA6108 | 1120 | 8/2/2006 |

All equipment is on a one-year calibration cycle.

Description of Bluetooth Transmitter

The A1200 cell phone offers Bluetooth as a feature. The Bluetooth spread-spectrum, frequency hopping transceiver is designed to operate between 2400 and 2483 MHz. The Bluetooth antenna is mounted on the PCB inside of the EUT. The antenna installation is permanent. For a more thorough description of the functionality please refer to Exhibit 12 of this package.

As a Bluetooth transmitter, it is designed operate with other Bluetooth devices as defined by industrial standard. In this application, the device is battery-operated.

The maximum Bluetooth antenna gain is -4 dBi.

Measurement Procedures and Data

CARRIER FREQUENCY SEPARATION

CFR 47 Part 15.247

Measurement Procedure

The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

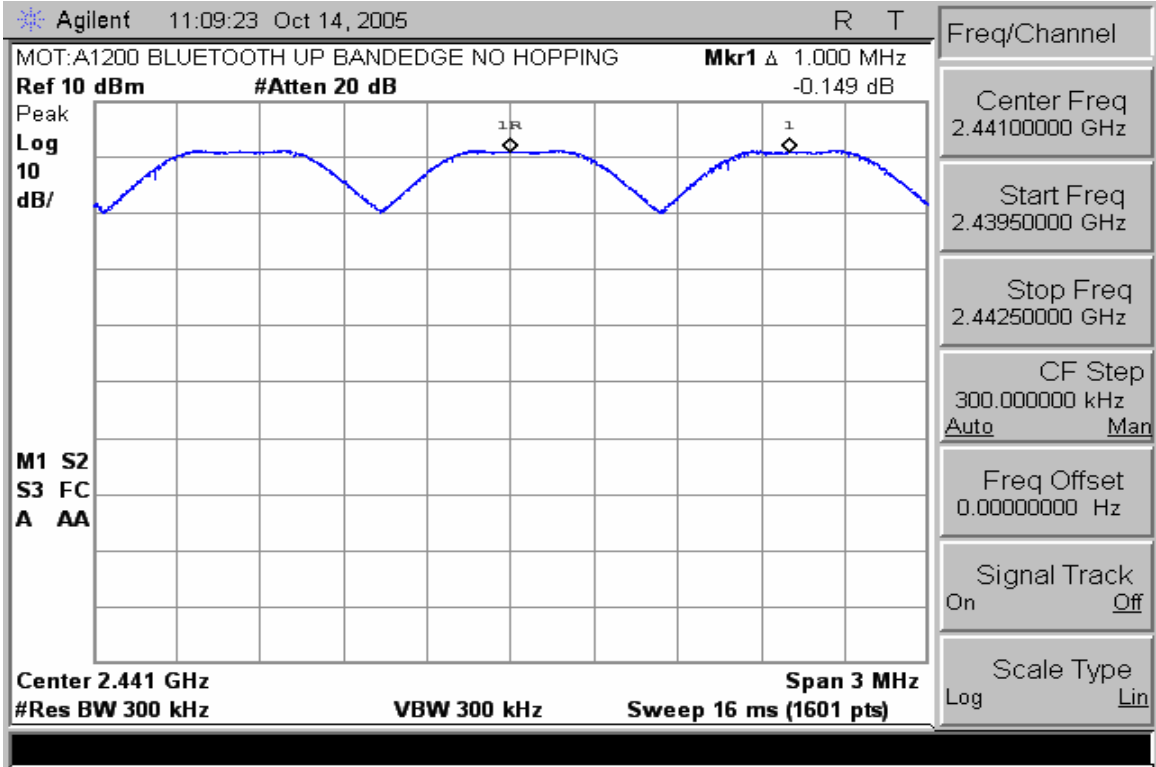
The Bluetooth transmitter of the A1200 had its hopping function enabled. The following spectrum analyzer settings were used:

1. Span = wide enough to capture the peaks of two adjacent channels
2. Resolution (or IF) Bandwidth (RBW) \geq 1% of the span
3. Video (or Average) Bandwidth (VBW) \geq RBW
4. Sweep = auto
5. Detector function = peak
6. Trace = max hold

The trace was allowed to stabilize. The marker-delta function was used to determine the separation between the peaks of the adjacent channels.

Measurement Results

See attached.



Carrier Frequency Separation

NUMBER OF HOPPING FREQUENCIES

CFR 47 Part 15.247

Measurement Procedure

The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

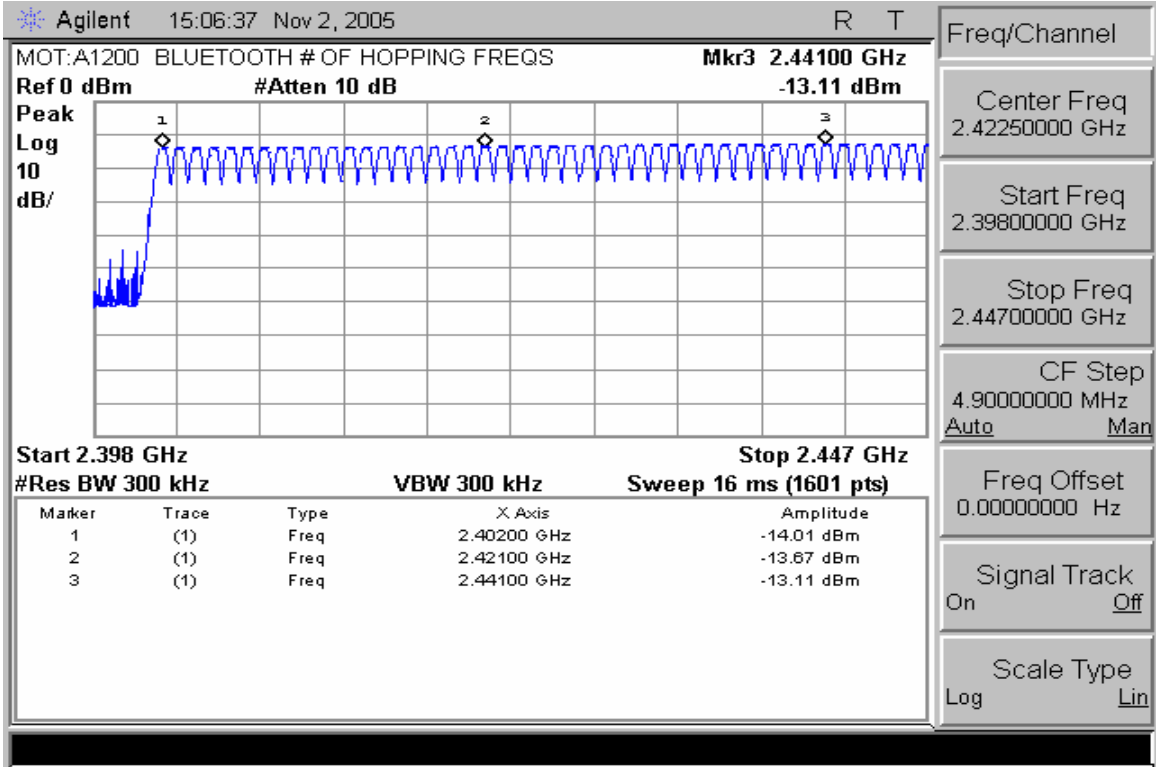
The Bluetooth frequency hopping function of the EUT was enabled. The spectrum analyzer used the following settings:

1. Span = the frequency band of operation
2. RBW \geq 1% of the span
3. VBW \geq RBW
4. Sweep = auto
5. Detector function = peak
6. Trace = max hold

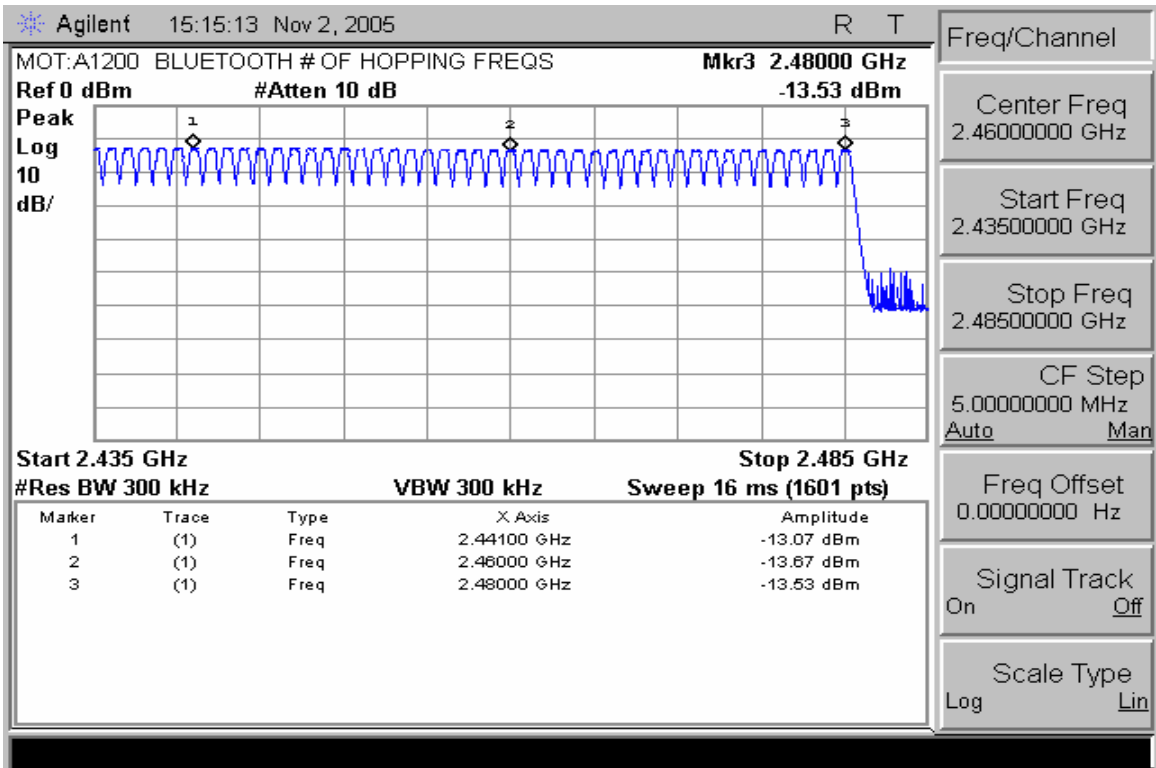
The trace was allowed to stabilize.

Measurement Results

See attached.



Number of Hopping Frequencies (Channels 0 – 39)



Number of Hopping Frequencies (Channels 39 – 78)

TIME OF OCCUPANCY (DWELL TIME)

CFR47 Part 15.247

Measurement Procedure

The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

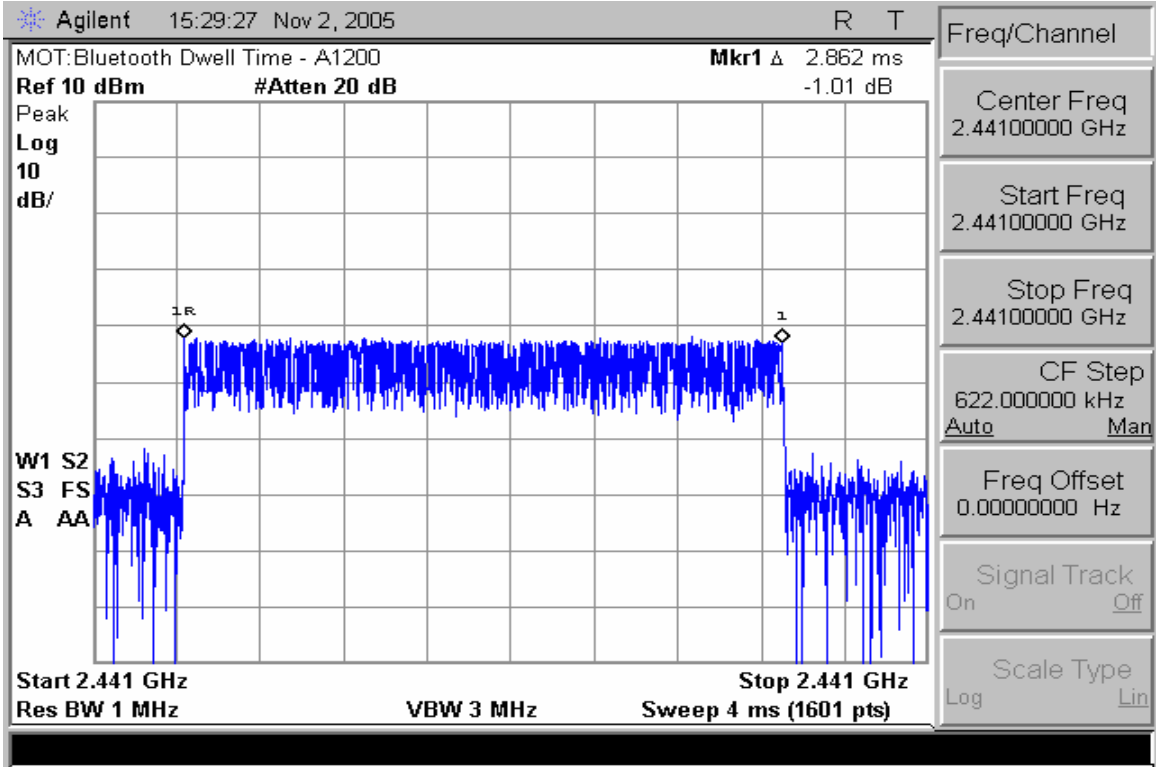
The Bluetooth hopping function of the EUT was enabled. The following spectrum analyzer settings were used:

1. Span = zero span, centered on a hopping channel
2. RBW = 1 MHz
3. VBW \geq RBW
4. Sweep = as necessary to capture the entire dwell time per hopping channel
5. Detector function = peak
6. Trace = max hold

The marker-delta function was used to determine the dwell time.

Measurement Results

Attached



Dwell Time

20dB Bandwidth

CFR 47 Part 15.247

Measurement Procedure

The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

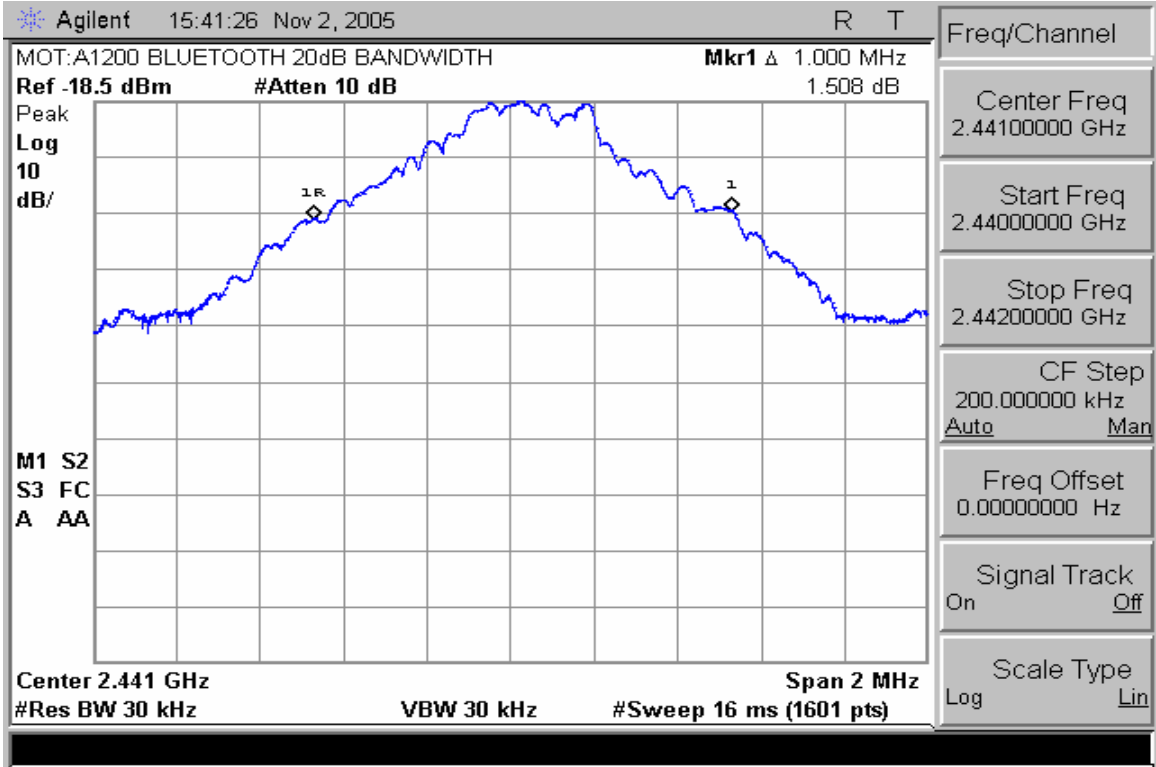
The Bluetooth frequency hopping function of the EUT was enabled. The spectrum analyzer used the following settings:

1. Span = approx. 2 to 3 times the 20dB bandwidth, centered on a hopping frequency
2. RBW \geq 1% of the 20dB span
3. VBW \geq RBW
4. Sweep = auto
5. Detector function = peak
6. Trace = max hold

The trace was allowed to stabilize. The EUT was transmitting at its maximum data rate. The marker-to-peak function was used to set the marker to the peak of the emission. The marker-delta function was used to measure 20dB down one side of the emission. The marker-delta function and marker was moved to the other side of the emission until it was even with the reference marker. The marker-delta reading at this point was the 20dB bandwidth of the emission.

Measurement Results

Attached



20dB Bandwidth

FIELD STRENGTH OF SPURIOUS EMISSIONS

CFR Part 2.1053, 15.247

Measurement Procedure

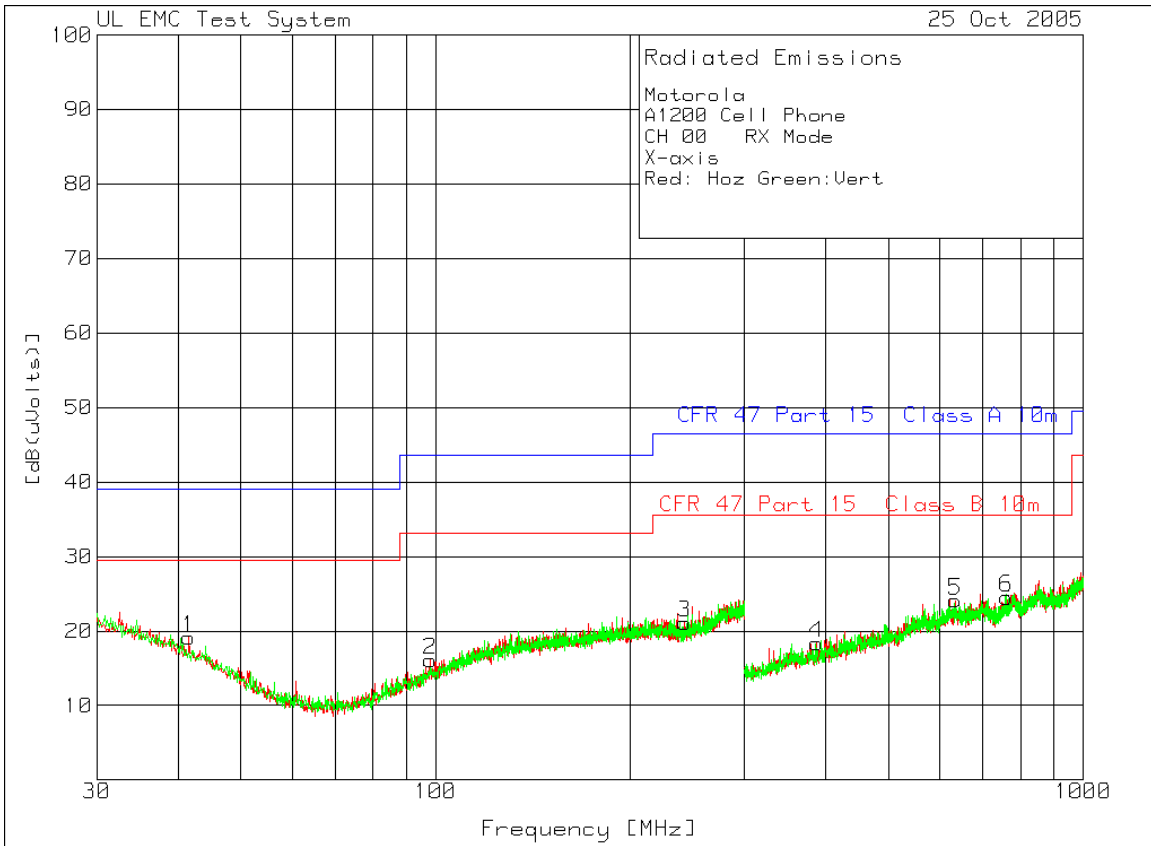
The Equipment-Under-Test is placed inside the semi-anechoic chamber on a wooden table at the turntable center. For each spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters and the turntable is rotated 360 degrees to obtain a maximum reading on the spectrum analyzer. This is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

Field Strength (dBuV/m) = EMI Receiver Level (dBuV) + Cable Loss (dB) -
Amplifier Gain (dB) + Antenna Correction Factor (1/m)

A fully charged battery was used for the supply voltage.

Measurement Results

Attached

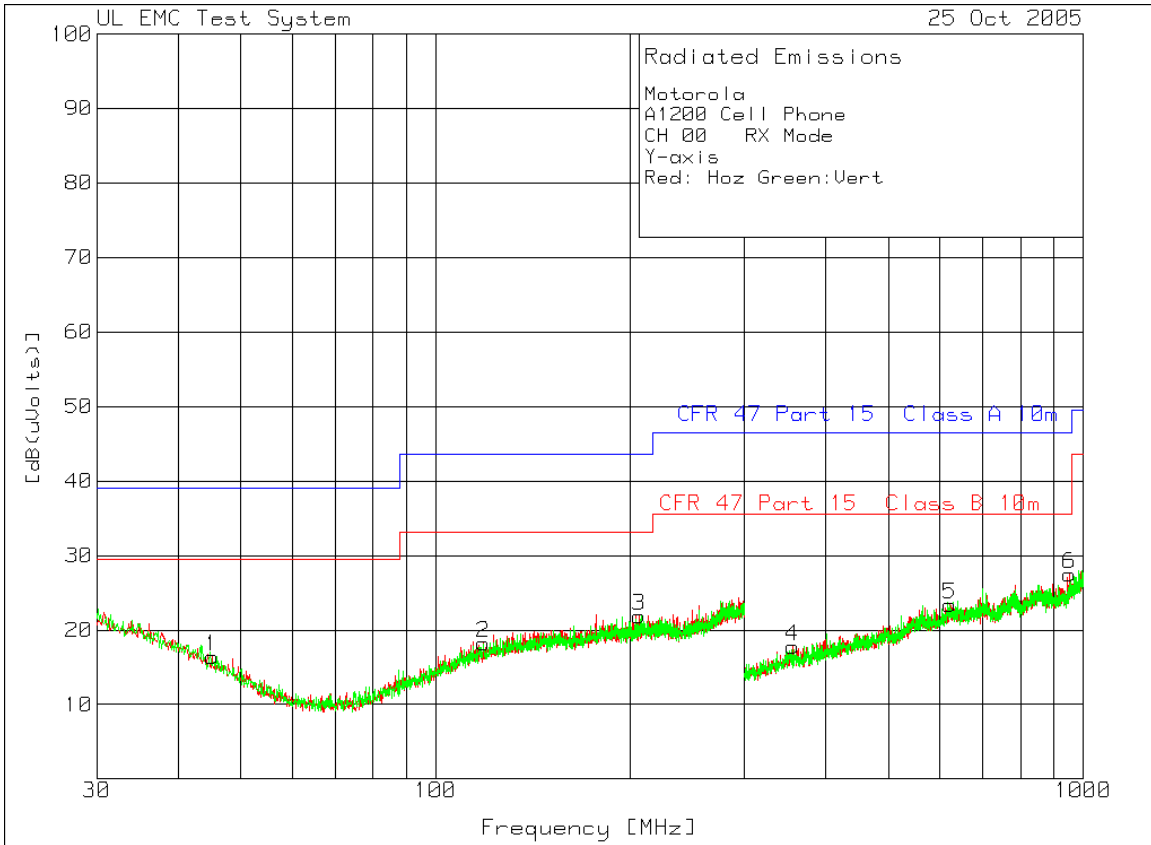


30-1000MHz Low Channel Dual Polarization X

Motorola
A1200 Cell Phone
CH 00 RX Mode
X-axis
Red: Hoz Green:Vert

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB(uVolts)] | Limit 1 | Margin 1[dB] | Limit 2 | Margin 2[dB] | Azimuth [degs] | Height [cm] | Polarity |
|------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|--------------------|---------|--------------|---------|--------------|----------------|-------------|----------|
| Range 1 30 - 300MHz | | | | | | | | | | | | | |
| 1 | 41.6042 | | | 35.7 pk | -30.3 | 13.7 | 19.1 | 29.6 | -10.5 | 39.1 | 295 | 100 | Horz |
| 2 | 98.2758 | | | 35.8 pk | -30.1 | 10.4 | 16.1 | 33.1 | -17 | 43.5 | 161 | 100 | Horz |
| 3 | 242.2488 | 35.2 pk | | | -29.6 | 15.5 | 21.1 | 35.6 | -14.5 | 46.4 | 52 | 100 | Horz |
| Range 3 300 - 1000MHz | | | | | | | | | | | | | |
| 4 | 387.4563 | 35.3 pk | | | -32.1 | 15.2 | 18.4 | 35.6 | -17.2 | 46.4 | 28 | 101 | Horz |
| 5 | 633.7331 | 35 pk | | | -31 | 20.1 | 24.1 | 35.6 | -11.5 | 46.4 | 237 | 101 | Horz |
| 6 | 761.0695 | 34.5 pk | | | -31.1 | 21.1 | 24.5 | 35.6 | -11.1 | 46.4 | 310 | 101 | Horz |

LIMIT 1: CFR 47 Part 15 Class B 10m
LIMIT 2: CFR 47 Part 15 Class A 10m

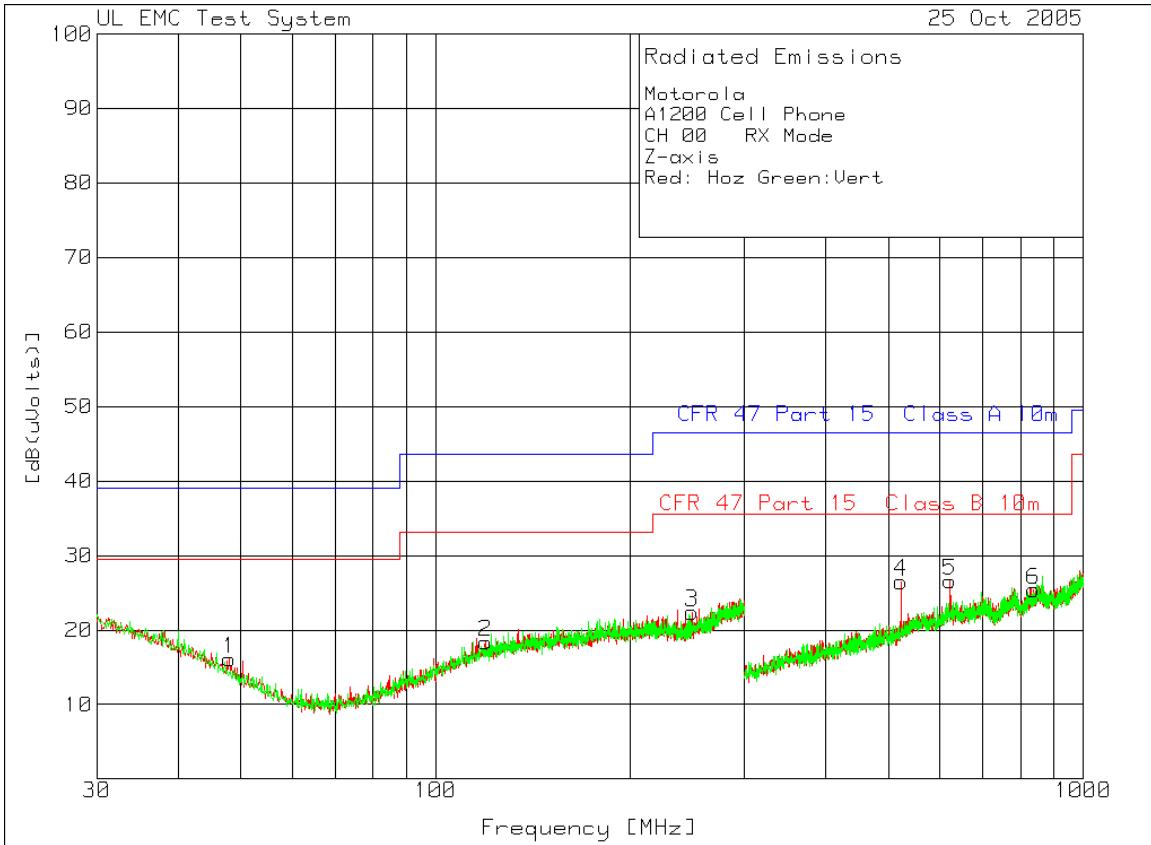


30-1000MHz Low Channel Dual Polarization Y

Motorola
 A1200 Cell Phone
 CH 00 RX Mode
 Y-axis
 Red: Hoz Green:Vert

| Marker | Test | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB(uVolts)] | Limit 1 | Margin 1[dB] | Limit 2 | Margin 2[dB] | Azimuth [degs] | Height [cm] | Polarity |
|------------------------------|----------|------------------------|---------------|-----------------------|------------------------|--------------------|---------|--------------|---------|--------------|----------------|-------------|----------|
| Range 1 30 - 300MHz | | | | | | | | | | | | | |
| 1 | 45.1124 | | 34.5 pk | | -30.3 | 12.2 | 16.4 | 29.6 | -13.2 | 39.1 | 156 | 100 | Horz |
| 2 | 118.6507 | 35.1 pk | | -30 | 13.1 | 18.2 | 33.1 | -14.9 | 43.5 | -25.3 | 122 | 100 | Horz |
| 3 | 205.817 | | 35.9 pk | | -29.9 | 15.9 | 21.9 | 33.1 | -11.2 | 43.5 | 171 | 100 | Horz |
| Range 3 300 - 1000MHz | | | | | | | | | | | | | |
| 4 | 355.6222 | 35.2 pk | | -32.4 | 15 | 17.8 | 35.6 | -17.8 | 46.4 | -28.6 | 335 | 101 | Horz |
| 5 | 621.1394 | 34.3 pk | | -31.1 | 20.2 | 23.4 | 35.6 | -12.2 | 46.4 | -23 | 6 | 101 | Horz |
| 6 | 950.6747 | 35.7 pk | | -31.3 | 23.1 | 27.5 | 35.6 | -8.1 | 46.4 | -18.9 | 244 | 101 | Horz |

LIMIT 1: CFR 47 Part 15 Class B 10m
 LIMIT 2: CFR 47 Part 15 Class A 10m

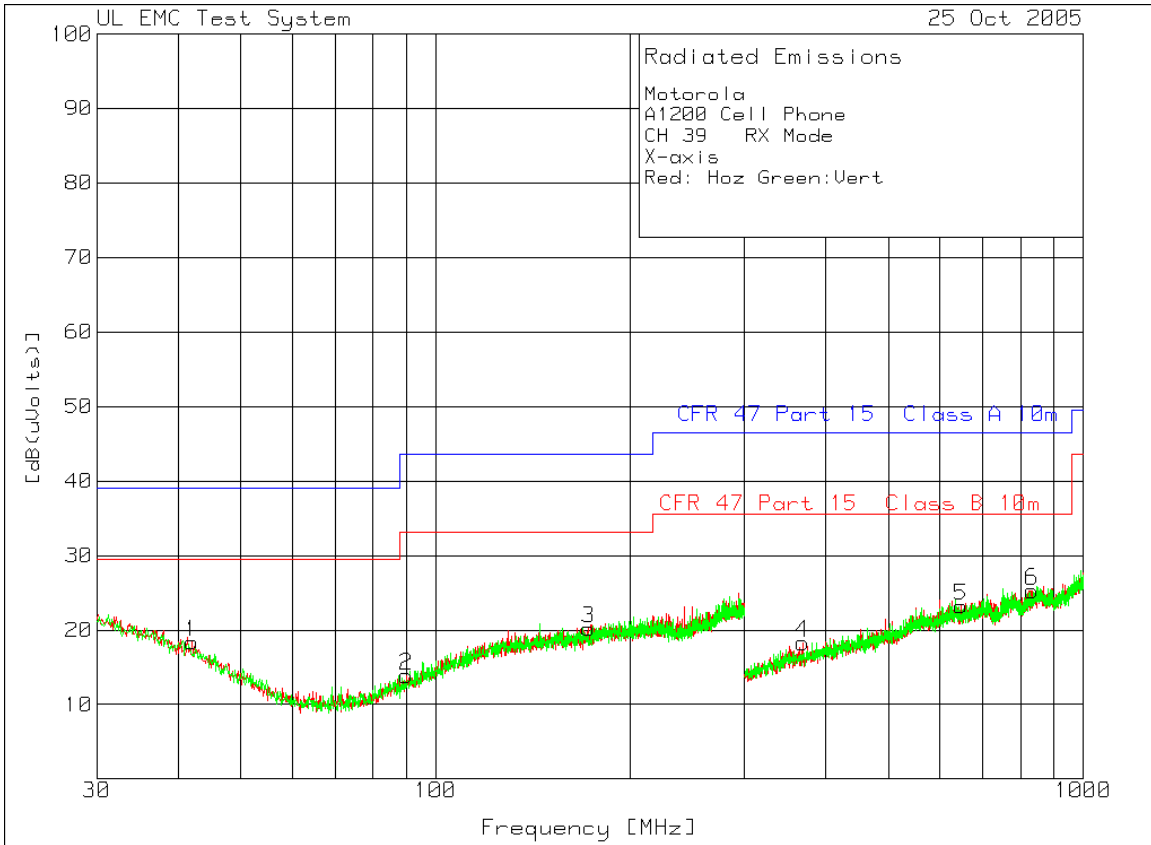


30-1000MHz Low Channel Dual Polarization Z

Motorola
 A1200 Cell Phone
 CH 00 RX Mode
 Z-axis
 Red: Hoz Green:Vert

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB(uVolts)] | Limit 1 [dB] | Margin 1[dB] | Limit 2 [dB] | Margin 2[dB] | Azimuth [degs] | Height [cm] | Polarity |
|-----------------------|----------------------|------------------------|---------------|-----------------------|------------------------|--------------------|--------------|--------------|--------------|--------------|----------------|-------------|----------|
| Range 1 30 - 300MHz | | | | | | | | | | | | | |
| 1 | 48.081 | 35.4 pk | | -30.3 | 11 | 16.1 | 29.6 | -13.5 | 39.1 | -23 | 218 | 100 | Horz |
| 2 | 119.3253 | 35.2 pk | | -30 | 13.2 | 18.4 | 33.1 | -14.7 | 43.5 | -25.1 | 218 | 100 | Horz |
| 3 | 248.5907 | 36.1 pk | | -29.6 | 15.9 | 22.4 | 35.6 | -13.2 | 46.4 | -24 | 154 | 100 | Horz |
| Range 3 300 - 1000MHz | | | | | | | | | | | | | |
| 4 | 523.1884 | 40.4 pk | | -31.6 | 17.7 | 26.5 | 35.6 | -9.1 | 46.4 | -19.9 | 348 | 101 | Horz |
| 5 | 623.2384 | 37.6 pk | | -31.1 | 20.1 | 26.6 | 35.6 | -9 | 46.4 | -19.8 | 74 | 101 | Horz |
| 6 | 838.7307 | 34.6 pk | | -31.5 | 22.3 | 25.4 | 35.6 | -10.2 | 46.4 | -21 | 17 | 101 | Horz |

LIMIT 1: CFR 47 Part 15 Class B 10m
 LIMIT 2: CFR 47 Part 15 Class A 10m



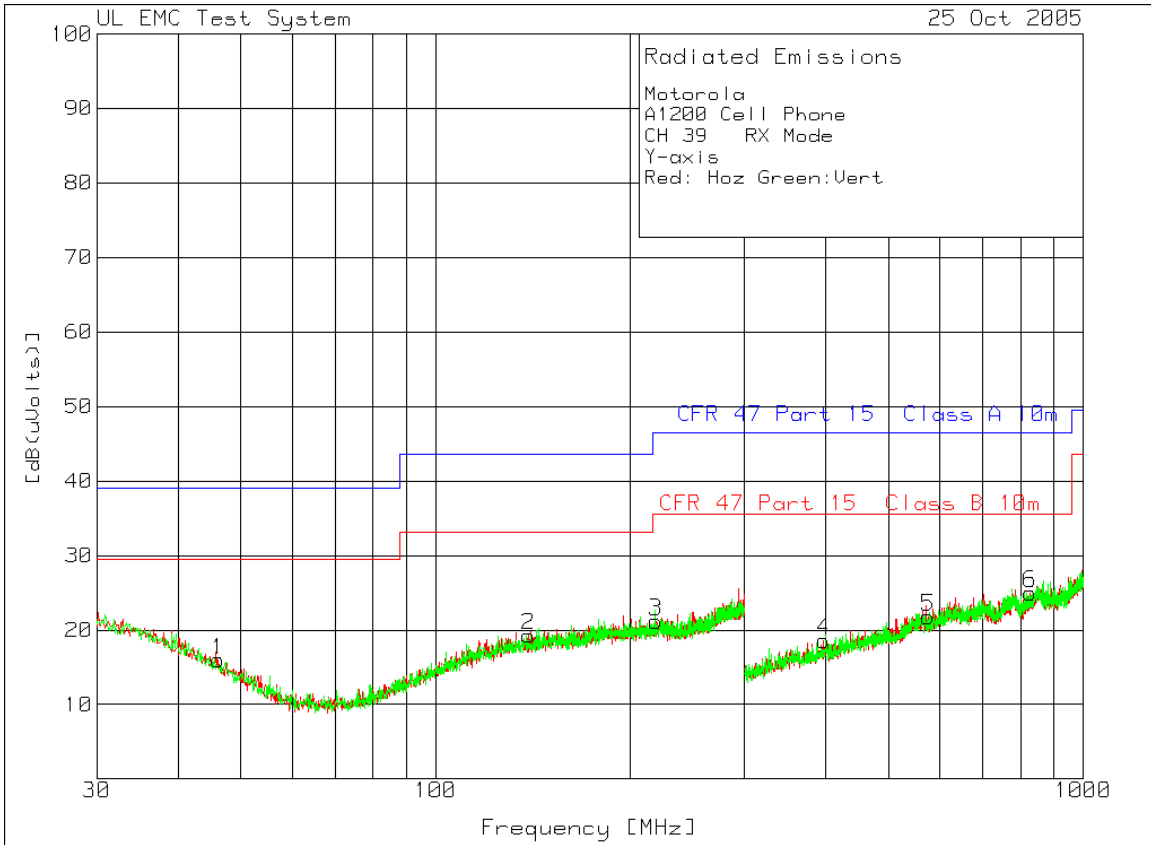
30-1000MHz Mid Channel Dual Polarization X

Motorola
 A1200 Cell Phone
 CH 39 RX Mode
 X-axis

Red: Hoz Green:Vert

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB(uVolts)] | Limit 1 | Margin 1[dB] | Limit 2 | Margin 2[dB] | Azimuth [degs] | Height [cm] | Polarity |
|------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|--------------------|---------|--------------|---------|--------------|----------------|-------------|----------|
| Range 1 30 - 300MHz | | | | | | | | | | | | | |
| 1 | 42.009 | 35.2 pk | | -30.3 | 13.5 | 18.4 | 29.6 | -11.2 | 39.1 | -20.7 | 40 | 100 | Horz |
| 2 | 90.1124 | 35 pk | | -30.2 | 9.1 | 13.9 | 33.1 | -19.2 | 43.5 | -29.6 | 233 | 100 | Horz |
| 3 | 172.2189 | 34.9 pk | | -30 | 15.3 | 20.2 | 33.1 | -12.9 | 43.5 | -23.3 | 131 | 100 | Horz |
| Range 3 300 - 1000MHz | | | | | | | | | | | | | |
| 4 | 368.5657 | 35.8 pk | | -32.3 | 14.8 | 18.3 | 35.6 | -17.3 | 46.4 | -28.1 | 256 | 101 | Horz |
| 5 | 647.3763 | 34.3 pk | | -30.9 | 19.8 | 23.2 | 35.6 | -12.4 | 46.4 | -23.2 | 142 | 101 | Horz |
| 6 | 833.1335 | 34.6 pk | | -31.5 | 22.2 | 25.3 | 35.6 | -10.3 | 46.4 | -21.1 | 29 | 101 | Horz |

LIMIT 1: CFR 47 Part 15 Class B 10m
 LIMIT 2: CFR 47 Part 15 Class A 10m

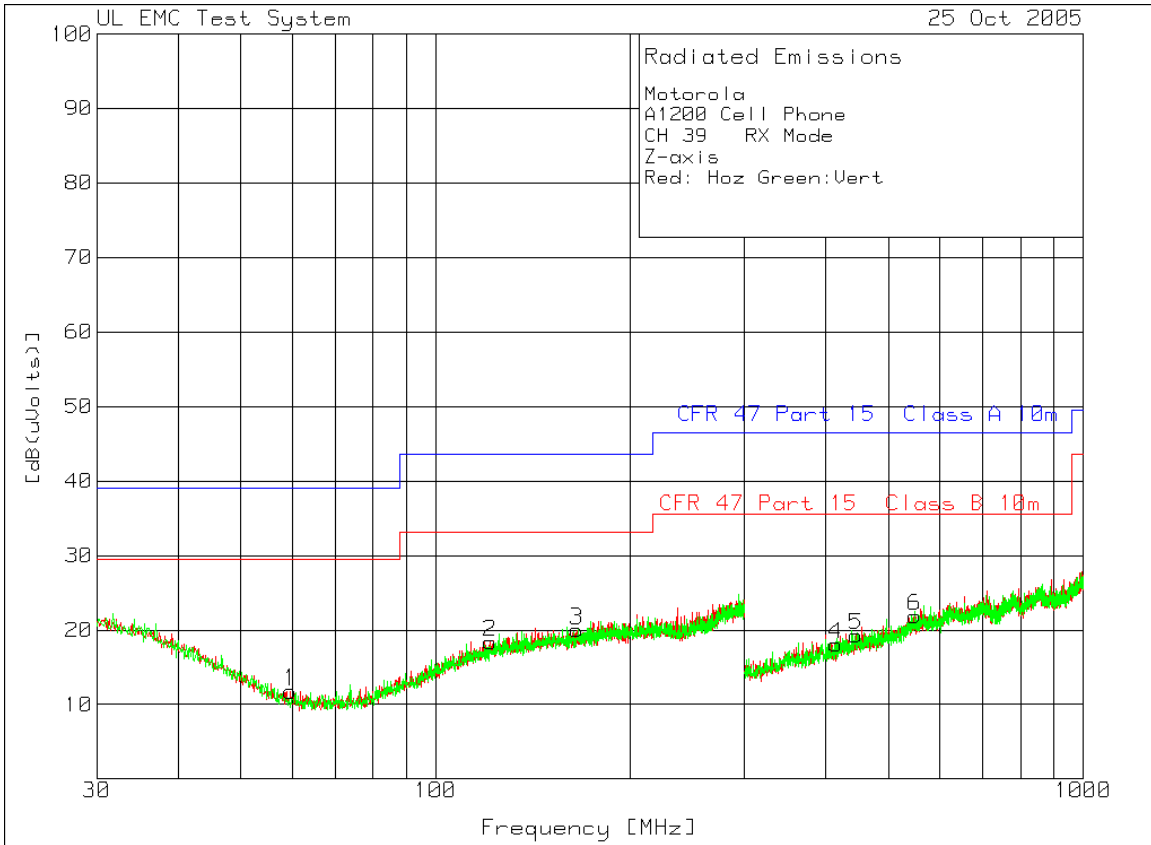


30 -1000MHz Mid Channel Dual Polarization Y

Motorola
 A1200 Cell Phone
 CH 39 RX Mode
 Y-axis
 Red: Hoz Green:Vert

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB(uVolts)] | Limit 1 | Margin 1[dB] | Limit 2 | Margin 2[dB] | Azimuth [degs] | Height [cm] | Polarity |
|------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|--------------------|---------|--------------|---------|--------------|----------------|-------------|----------|
| Range 1 30 - 300MHz | | | | | | | | | | | | | |
| 1 | 46.1919 | 34.5 pk | | -30.3 | 11.8 | 16 | 29.6 | -13.6 | 39.1 | -23.1 | 114 | 100 | Horz |
| 2 | 139.2953 | 35.1 pk | | -30.1 | 14.3 | 19.3 | 33.1 | -13.8 | 43.5 | -24.2 | 76 | 100 | Horz |
| 3 | 218.7706 | 35 pk | | -29.7 | 15.9 | 21.2 | 35.6 | -14.4 | 46.4 | -25.2 | 65 | 100 | Horz |
| Range 3 300 - 1000MHz | | | | | | | | | | | | | |
| 4 | 397.6012 | 35.3 pk | | -32.3 | 15.6 | 18.6 | 35.6 | -17 | 46.4 | -27.8 | 227 | 101 | Horz |
| 5 | 575.6622 | 34.2 pk | | -31.4 | 19 | 21.8 | 35.6 | -13.8 | 46.4 | -24.6 | 6 | 101 | Horz |
| 6 | 828.9356 | 34.4 pk | | -31.6 | 22.2 | 25 | 35.6 | -10.6 | 46.4 | -21.4 | 272 | 101 | Horz |

LIMIT 1: CFR 47 Part 15 Class B 10m
 LIMIT 2: CFR 47 Part 15 Class A 10m

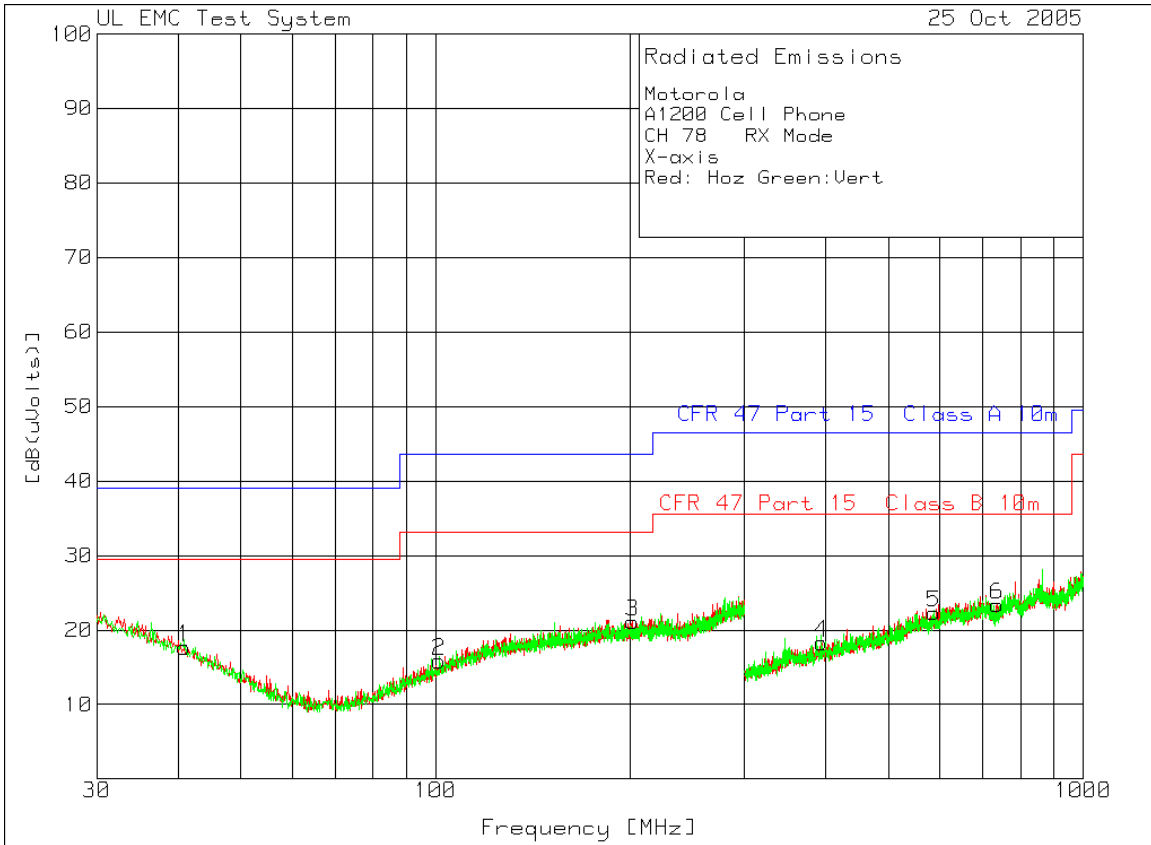


30 -1000MHz Mid Channel Dual Polarization Z

Motorola
 A1200 Cell Phone
 CH 39 RX Mode
 Z-axis
 Red: Hoz Green:Vert

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB(uVolts)] | Limit 1 | Margin 1[dB] | Limit 2 | Margin 2[dB] | Azimuth [degs] | Height [cm] | Polarity |
|------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|--------------------|---------|--------------|---------|--------------|----------------|-------------|----------|
| Range 1 30 - 300MHz | | | | | | | | | | | | | |
| 1 | 59.6852 | 35.2 pk | | -30.3 | 6.9 | 11.8 | 29.6 | -17.8 | 39.1 | -27.3 | 7 | 100 | Horz |
| 2 | 121.4842 | 35.1 pk | | -30.1 | 13.4 | 18.4 | 33.1 | -14.7 | 43.5 | -25.1 | 7 | 100 | Horz |
| 3 | 165.2024 | 35 pk | | -30 | 15 | 20 | 33.1 | -13.1 | 43.5 | -23.5 | 291 | 100 | Horz |
| Range 3 300 - 1000MHz | | | | | | | | | | | | | |
| 4 | 415.4423 | 34.4 pk | | -32.1 | 15.8 | 18.1 | 35.6 | -17.5 | 46.4 | -28.3 | 224 | 101 | Horz |
| 5 | 445.5272 | 34.8 pk | | -32 | 16.5 | 19.3 | 35.6 | -16.3 | 46.4 | -27.1 | 47 | 101 | Horz |
| 6 | 548.7256 | 34.4 pk | | -31.5 | 19 | 21.9 | 35.6 | -13.7 | 46.4 | -24.5 | 171 | 101 | Horz |

LIMIT 1: CFR 47 Part 15 Class B 10m
 LIMIT 2: CFR 47 Part 15 Class A 10m

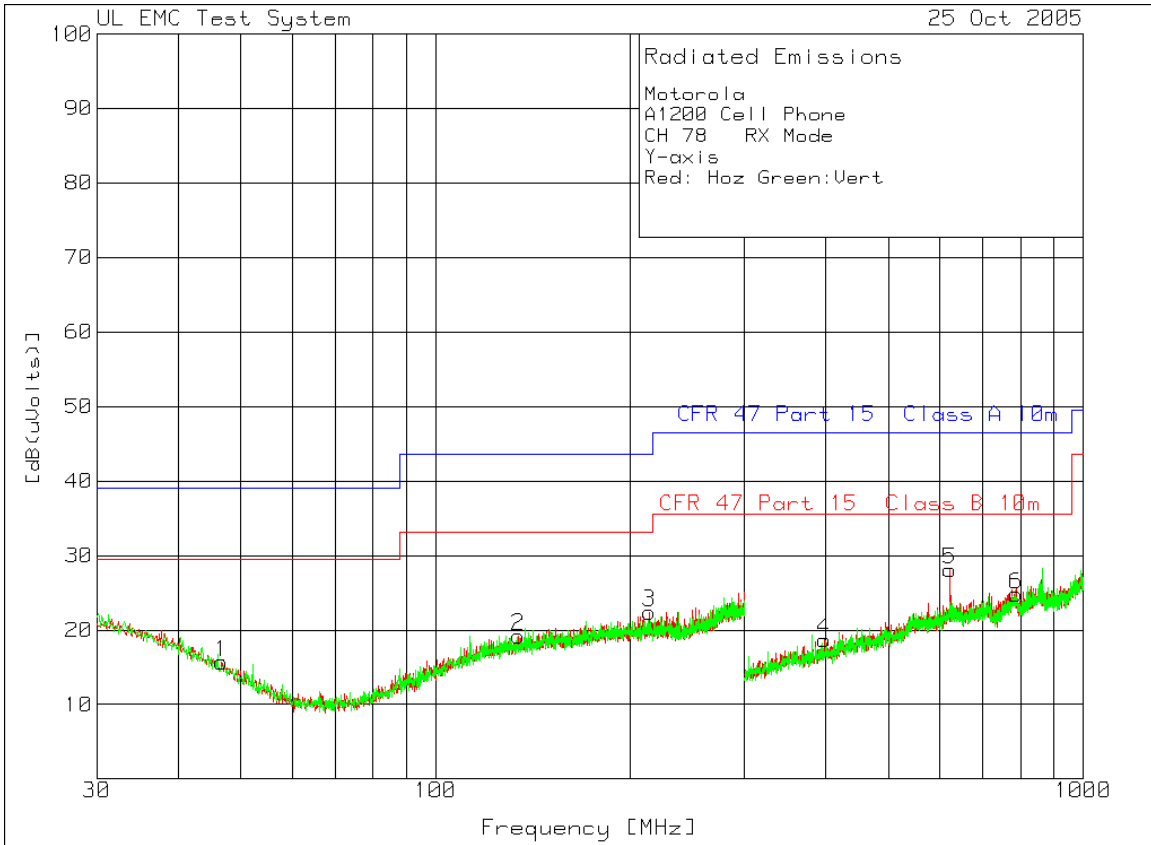


30 -1000MHz High Channel Dual Polarization X

Motorola
 A1200 Cell Phone
 CH 78 RX Mode
 X-axis
 Red: Hoz Green:Vert

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB(uVolts)] | Limit 1 | Margin 1[dB] | Limit 2 | Margin 2[dB] | Azimuth [degs] | Height [cm] | Polarity |
|------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|--------------------|---------|--------------|---------|--------------|----------------|-------------|----------|
| Range 1 30 - 300MHz | | | | | | | | | | | | | |
| 1 | 40.9295 | 34.1 | pk | -30.3 | 13.9 | 17.7 | 29.6 | -11.9 | 39.1 | -21.4 | 87 | 100 | Horz |
| 2 | 101.1094 | 35.1 | pk | -30 | 10.8 | 15.9 | 33.1 | -17.2 | 43.5 | -27.6 | 359 | 100 | Horz |
| 3 | 201.4992 | 35.2 | pk | -29.9 | 15.8 | 21.1 | 33.1 | -12 | 43.5 | -22.4 | 254 | 100 | Horz |
| Range 3 300 - 1000MHz | | | | | | | | | | | | | |
| 4 | 394.4528 | 34.8 | pk | -32 | 15.5 | 18.3 | 35.6 | -17.3 | 46.4 | -28.1 | 29 | 101 | Horz |
| 5 | 587.9061 | 34.3 | pk | -31.2 | 19.2 | 22.3 | 35.6 | -13.3 | 46.4 | -24.1 | 161 | 101 | Horz |
| 6 | 736.2319 | 34.7 | pk | -31.2 | 19.9 | 23.4 | 35.6 | -12.2 | 46.4 | -23 | 306 | 101 | Horz |

LIMIT 1: CFR 47 Part 15 Class B 10m
 LIMIT 2: CFR 47 Part 15 Class A 10m

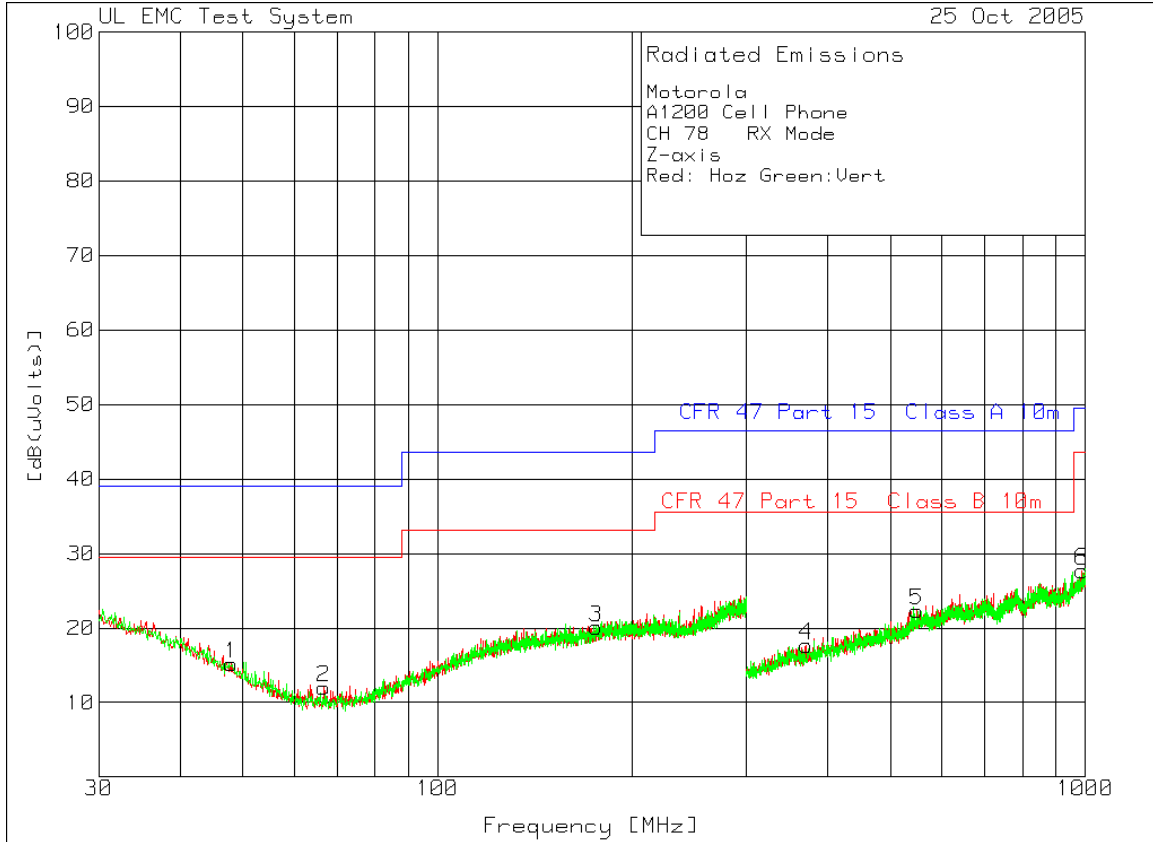


30 -1000MHz High Channel Dual Polarization Y

Motorola
A1200 Cell Phone
CH 78 RX Mode
Y-axis
Red: Hoz Green:Vert

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB(uVolts)] | Limit 1 | Margin 1 [dB] | Limit 2 | Margin 2 [dB] | Azimuth [degs] | Height [cm] | Polarity |
|------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|--------------------|---------|---------------|---------|---------------|----------------|-------------|----------|
| Range 1 30 - 300MHz | | | | | | | | | | | | | |
| 1 | 46.7316 | 34.5 | pk | -30.3 | 11.5 | 15.7 | 29.6 | -13.9 | 39.1 | -23.4 | 246 | 100 | Horz |
| 2 | 134.1679 | 35 | pk | -30 | 14.2 | 19.2 | 33.1 | -13.9 | 43.5 | -24.3 | 327 | 100 | Horz |
| 3 | 213.7781 | 36.2 | pk | -29.7 | 15.9 | 22.4 | 33.1 | -10.7 | 43.5 | -21.1 | 18 | 100 | Horz |
| Range 3 300 - 1000MHz | | | | | | | | | | | | | |
| 4 | 398.3009 | 35.4 | pk | -32.3 | 15.6 | 18.7 | 35.6 | -16.9 | 46.4 | -27.7 | 359 | 101 | Horz |
| 5 | 623.2384 | 39.1 | pk | -31.1 | 20.1 | 28.1 | 35.6 | -7.5 | 46.4 | -18.3 | 120 | 101 | Horz |
| 6 | 787.6562 | 34.3 | pk | -31.2 | 21.7 | 24.8 | 35.6 | -10.8 | 46.4 | -21.6 | 53 | 101 | Horz |

LIMIT 1: CFR 47 Part 15 Class B 10m
LIMIT 2: CFR 47 Part 15 Class A 10m

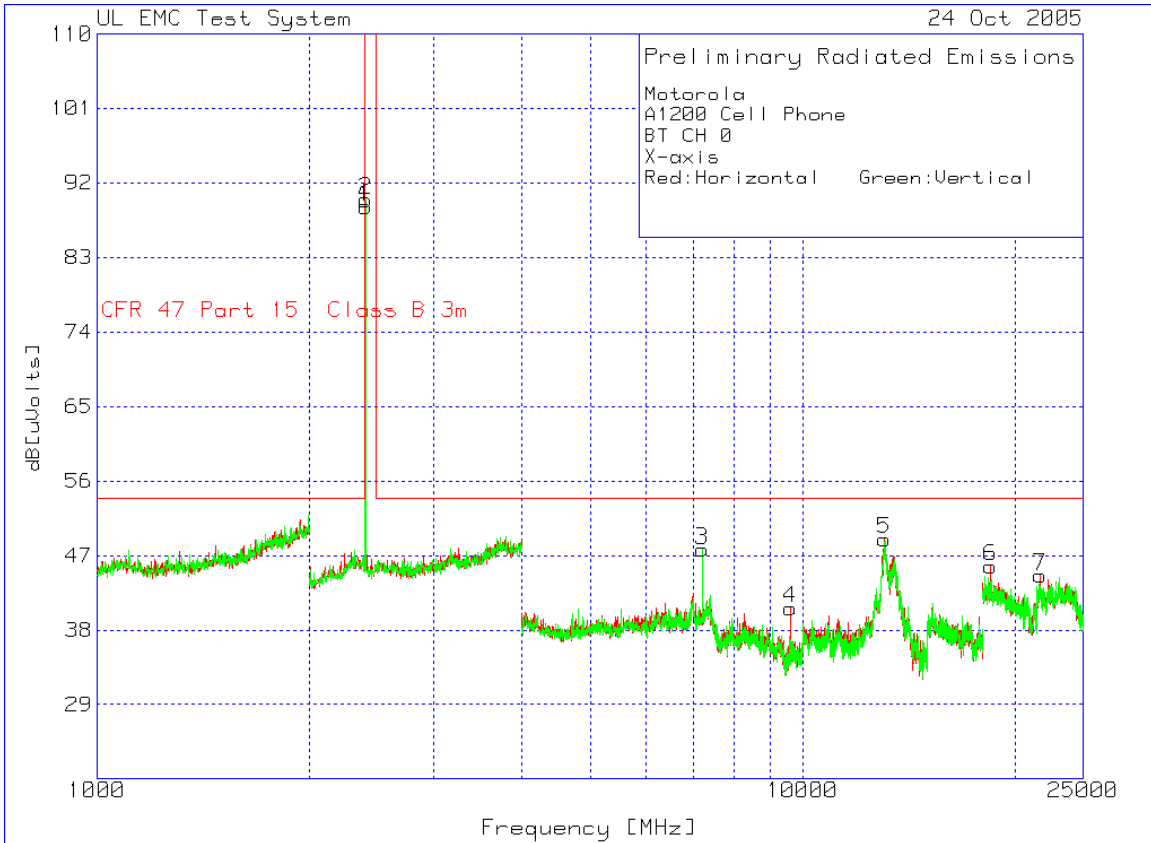


30 -1000MHz High Channel Dual Polarization Z

Motorola
 A1200 Cell Phone
 CH 78 RX Mode
 Z-axis
 Red: Hoz Green:Vert

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB(uVolts)] | Limit 1 | Margin 1[dB] | Limit 2 | Margin 2[dB] | Azimuth [degs] | Height [cm] | Polarity |
|------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|--------------------|---------|--------------|---------|--------------|----------------|-------------|----------|
| Range 1 30 - 300MHz | | | | | | | | | | | | | |
| 1 | 48.081 | 34.5 pk | | -30.3 | 11 | 15.2 | 29.6 | -14.4 | 39.1 | -23.9 | 326 | 100 | Horz |
| 2 | 66.7016 | 35.9 pk | | -30.2 | 6.3 | 12 | 29.6 | -17.6 | 39.1 | -27.1 | 348 | 100 | Horz |
| 3 | 175.862 | 34.5 pk | | -29.9 | 15.5 | 20.1 | 33.1 | -13 | 43.5 | -23.4 | 24 | 100 | Horz |
| Range 3 300 - 1000MHz | | | | | | | | | | | | | |
| 4 | 370.6647 | 35.4 pk | | -32.5 | 14.8 | 17.7 | 35.6 | -17.9 | 46.4 | -28.7 | 305 | 101 | Horz |
| 5 | 549.4253 | 34.7 pk | | -31.5 | 19.1 | 22.3 | 35.6 | -13.3 | 46.4 | -24.1 | 148 | 101 | Horz |
| 6 | 989.1554 | 34.5 pk | | -30.6 | 23.8 | 27.7 | 43.5 | -15.8 | 49.5 | -21.8 | 46 | 101 | Horz |

LIMIT 1: CFR 47 Part 15 Class B 10m
 LIMIT 2: CFR 47 Part 15 Class A 10m



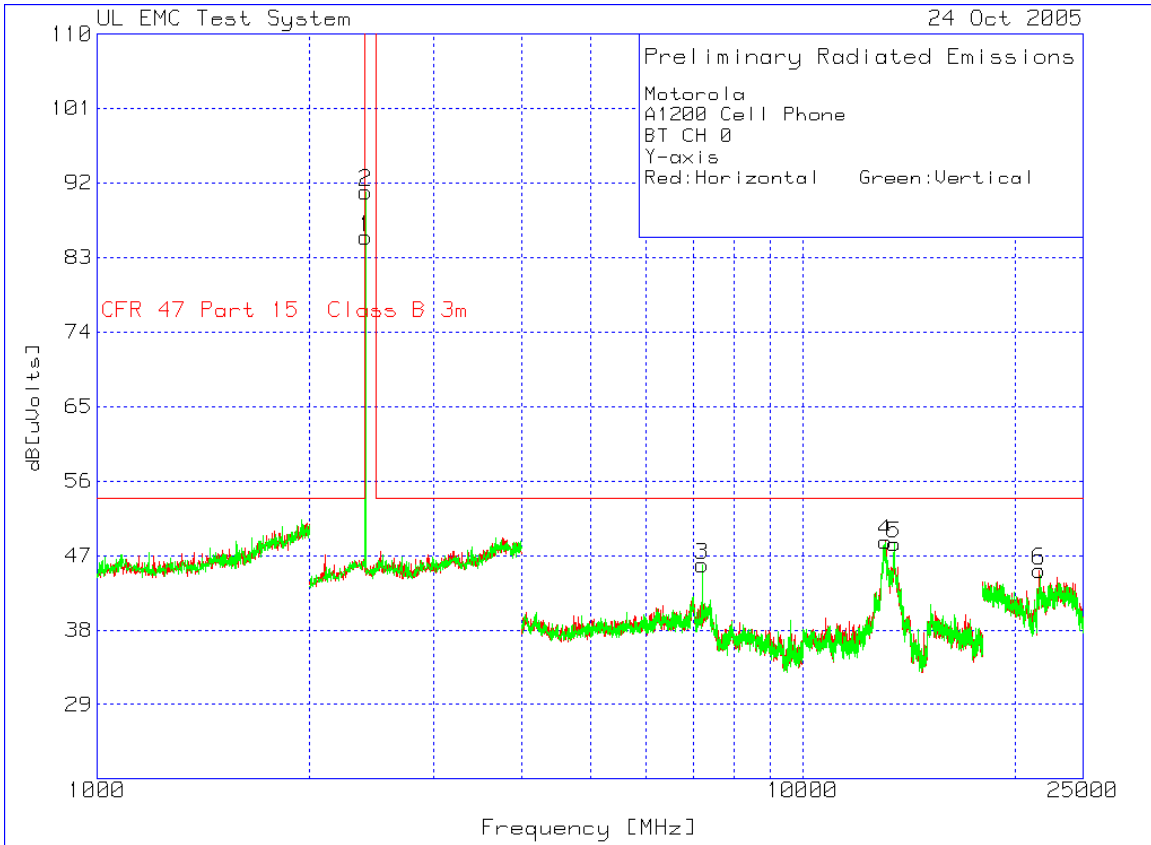
1-25 GHz Low Channel Dual Polarization X

Motorola
A1200 Cell Phone
BT CH 0
X-axis

Red:Horizontal Green:Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts] | Limit 1 | Margin 1[dB] | Height [cm] | Polarity |
|------------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------|---------|--------------|-------------|----------|
| 2 - 4GHz 2000 - 4000MHz | | | | | | | | | | |
| 1 | 2400.802 | 62.95 pk | | 4.4 | 21.8 | 89.15 | 999 | -909.85 | 100 | Horz |
| 8 - 12GHz 8000 - 12000MHz | | | | | | | | | | |
| 4 | 9609.61 | 53.23 pk | | -49 | 36.4 | 40.63 | 54 | -13.37 | 100 | Horz |
| 12 - 18GHz 12000 - 18000MHz | | | | | | | | | | |
| 5 | 13069.069 | 43.16 pk | | -34 | 39.8 | 48.96 | 54 | -5.04 | 100 | Horz |
| 18-26.5GHz 18000 - 25000MHz | | | | | | | | | | |
| 6 | 18490.49 | 72.96 pk | | -67.4 | 40.1 | 45.66 | 54 | -8.34 | 100 | Horz |
| 7 | 21720.721 | 65.36 pk | | -61.2 | 40.4 | 44.56 | 54 | -9.44 | 100 | Horz |
| 2 - 4GHz 2000 - 4000MHz | | | | | | | | | | |
| 2 | 2400.802 | 63.79 pk | | 4.4 | 21.8 | 89.99 | 999 | -909.01 | 149 | Vert |
| 4 - 8GHz 4000 - 8000MHz | | | | | | | | | | |
| 3 | 7207.207 | 64.8 pk | | -46.9 | 29.8 | 47.7 | 54 | -6.3 | 100 | Vert |

LIMIT 1: CFR 47 Part 15 Class B 3m



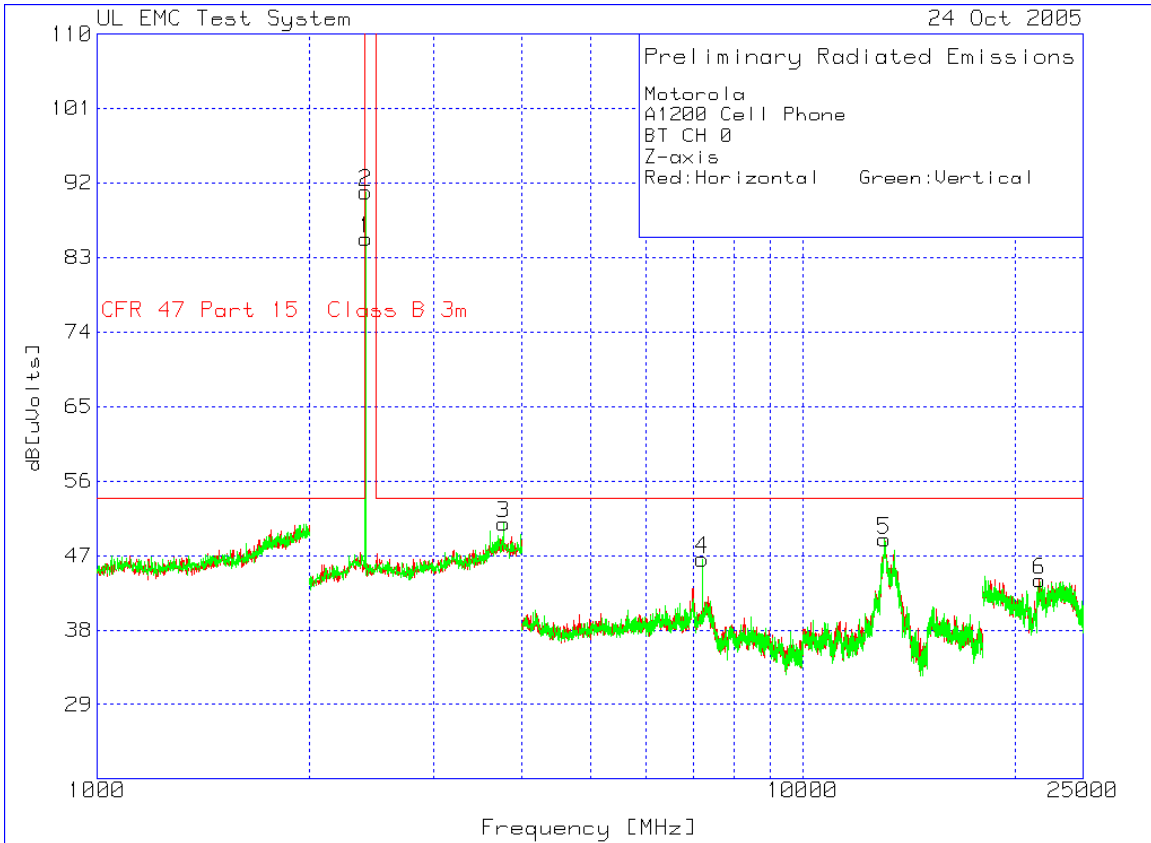
1-25 GHz Low Channel Dual Polarization Y

Motorola
A1200 Cell Phone
BT CH 0
Y-axis

Red:Horizontal Green:Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts] | Limit 1 | Margin 1[dB] | Height [cm] | Polarity |
|------------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------|---------|--------------|-------------|----------|
| 2 - 4GHz 2000 - 4000MHz | | | | | | | | | | |
| 1 | 2400.802 | 59.25 pk | | 4.4 | 21.8 | 85.45 | 999 | -913.55 | 149 | Horz |
| 12 - 18GHz 12000 - 18000MHz | | | | | | | | | | |
| 4 | 13093.093 | 42.58 pk | | -33.7 | 39.8 | 48.68 | 54 | -5.32 | 100 | Horz |
| 18-26.5GHz 18000 - 25000MHz | | | | | | | | | | |
| 6 | 21657.658 | 66.12 pk | | -61.3 | 40.4 | 45.22 | 54 | -8.78 | 100 | Horz |
| 2 - 4GHz 2000 - 4000MHz | | | | | | | | | | |
| 2 | 2400.802 | 64.73 pk | | 4.4 | 21.8 | 90.93 | 999 | -908.07 | 100 | Vert |
| 4 - 8GHz 4000 - 8000MHz | | | | | | | | | | |
| 3 | 7207.207 | 62.97 pk | | -46.9 | 29.8 | 45.87 | 54 | -8.13 | 100 | Vert |
| 12 - 18GHz 12000 - 18000MHz | | | | | | | | | | |
| 5 | 13477.477 | 44.12 pk | | -35.5 | 39.8 | 48.42 | 54 | -5.58 | 100 | Vert |

LIMIT 1: CFR 47 Part 15 Class B 3m



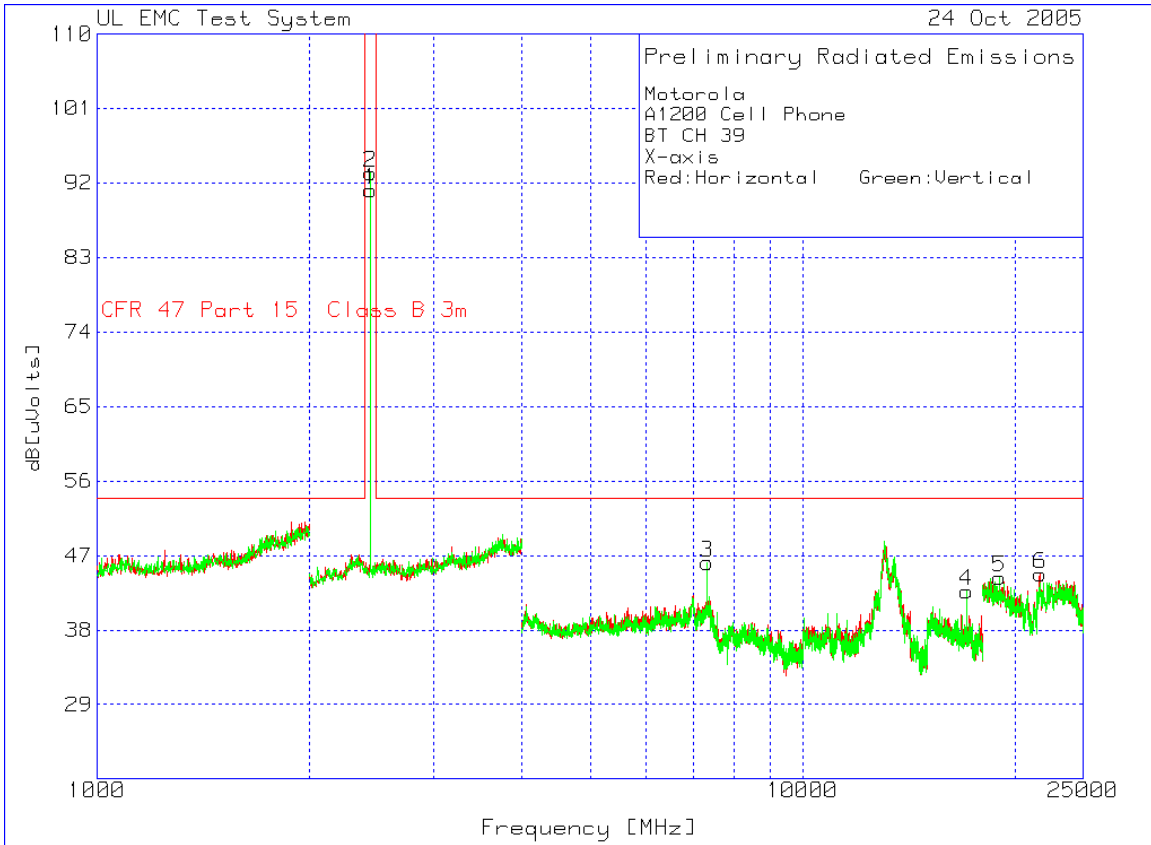
1-25 GHz Low Channel Dual Polarization Z

Motorola
 A1200 Cell Phone
 BT CH 0
 Z-axis

Red:Horizontal Green:Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts] | Limit 1 | Margin 1[dB] | Height [cm] | Polarity |
|------------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------|---------|--------------|-------------|----------|
| 2 - 4GHz 2000 - 4000MHz | | | | | | | | | | |
| 1 | 2400.802 | 59.08 pk | | 4.4 | 21.8 | 85.28 | 999 | -913.72 | 149 | Horz |
| 18-26.5GHz 18000 - 25000MHz | | | | | | | | | | |
| 6 | 21678.679 | 64.92 pk | | -61.3 | 40.4 | 44.02 | 54 | -9.98 | 100 | Horz |
| 2 - 4GHz 2000 - 4000MHz | | | | | | | | | | |
| 2 | 2400.802 | 64.73 pk | | 4.4 | 21.8 | 90.93 | 999 | -908.07 | 100 | Vert |
| 3 | 3767.535 | 21.5 pk | | 5.5 | 23.9 | 50.9 | 54 | -3.1 | 100 | Vert |
| 4 - 8GHz 4000 - 8000MHz | | | | | | | | | | |
| 4 | 7207.207 | 63.67 pk | | -46.9 | 29.8 | 46.57 | 54 | -7.43 | 100 | Vert |
| 12 - 18GHz 12000 - 18000MHz | | | | | | | | | | |
| 5 | 13069.069 | 43.13 pk | | -34 | 39.8 | 48.93 | 54 | -5.07 | 100 | Vert |

LIMIT 1: CFR 47 Part 15 Class B 3m



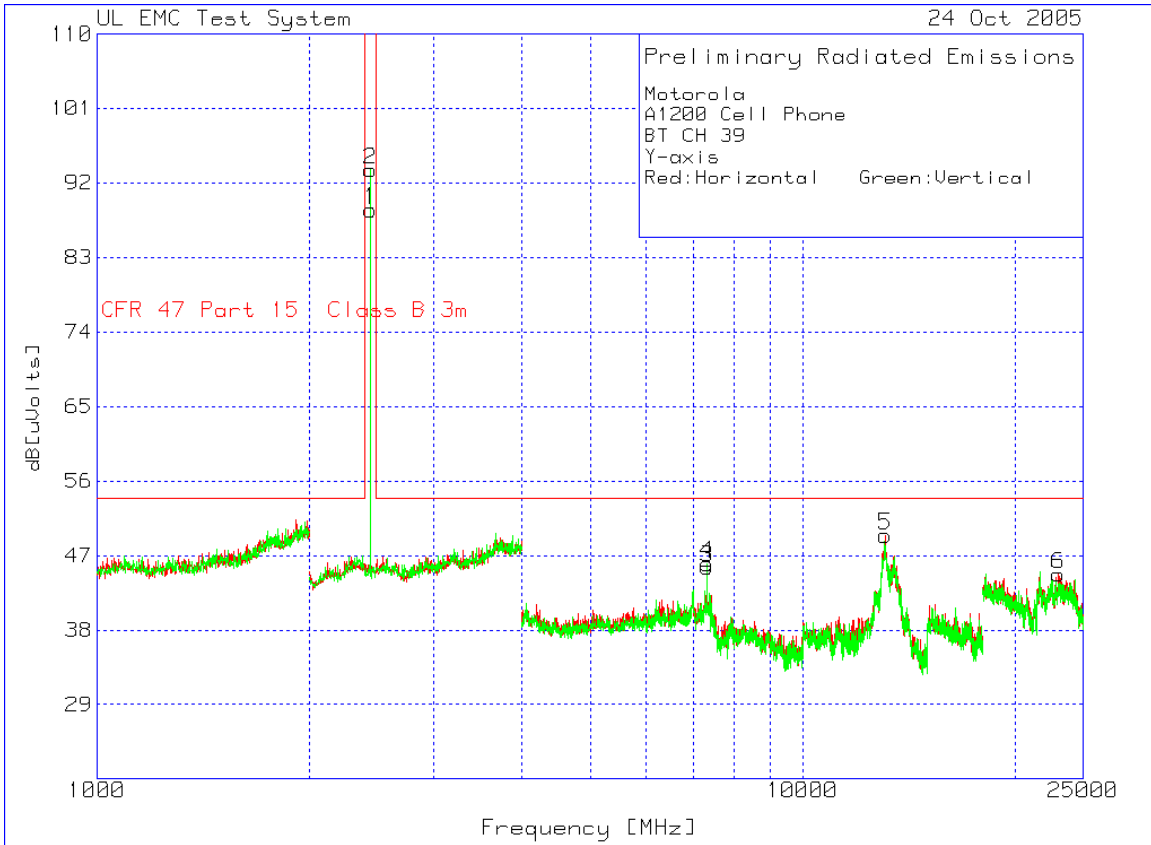
1-25 GHz Mid Channel Dual Polarization X

Motorola
A1200 Cell Phone
BT CH 39
X-axis

Red:Horizontal Green:Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts] | Limit 1 | Margin 1[dB] | Height [cm] | Polarity |
|------------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------|---------|--------------|-------------|----------|
| 2 - 4GHz 2000 - 4000MHz | | | | | | | | | | |
| 1 | 2440.882 | 65.03 | pk | 4.2 | 21.9 | 91.13 | 999 | -907.87 | 100 | Horz |
| 18-26.5GHz 18000 - 25000MHz | | | | | | | | | | |
| 6 | 21734.735 | 65.56 | pk | -61.2 | 40.4 | 44.76 | 54 | -9.24 | 100 | Horz |
| 2 - 4GHz 2000 - 4000MHz | | | | | | | | | | |
| 2 | 2440.882 | 67.12 | pk | 4.2 | 21.9 | 93.22 | 999 | -905.78 | 149 | Vert |
| 4 - 8GHz 4000 - 8000MHz | | | | | | | | | | |
| 3 | 7323.323 | 61.83 | pk | -46.3 | 30.6 | 46.13 | 54 | -7.87 | 100 | Vert |
| 12 - 18GHz 12000 - 18000MHz | | | | | | | | | | |
| 4 | 17087.087 | 43.47 | pk | -41.1 | 40.3 | 42.67 | 54 | -11.33 | 100 | Vert |
| 18-26.5GHz 18000 - 25000MHz | | | | | | | | | | |
| 5 | 19009.009 | 72.64 | pk | -68.5 | 40.2 | 44.34 | 54 | -9.66 | 100 | Vert |

LIMIT 1: CFR 47 Part 15 Class B 3m

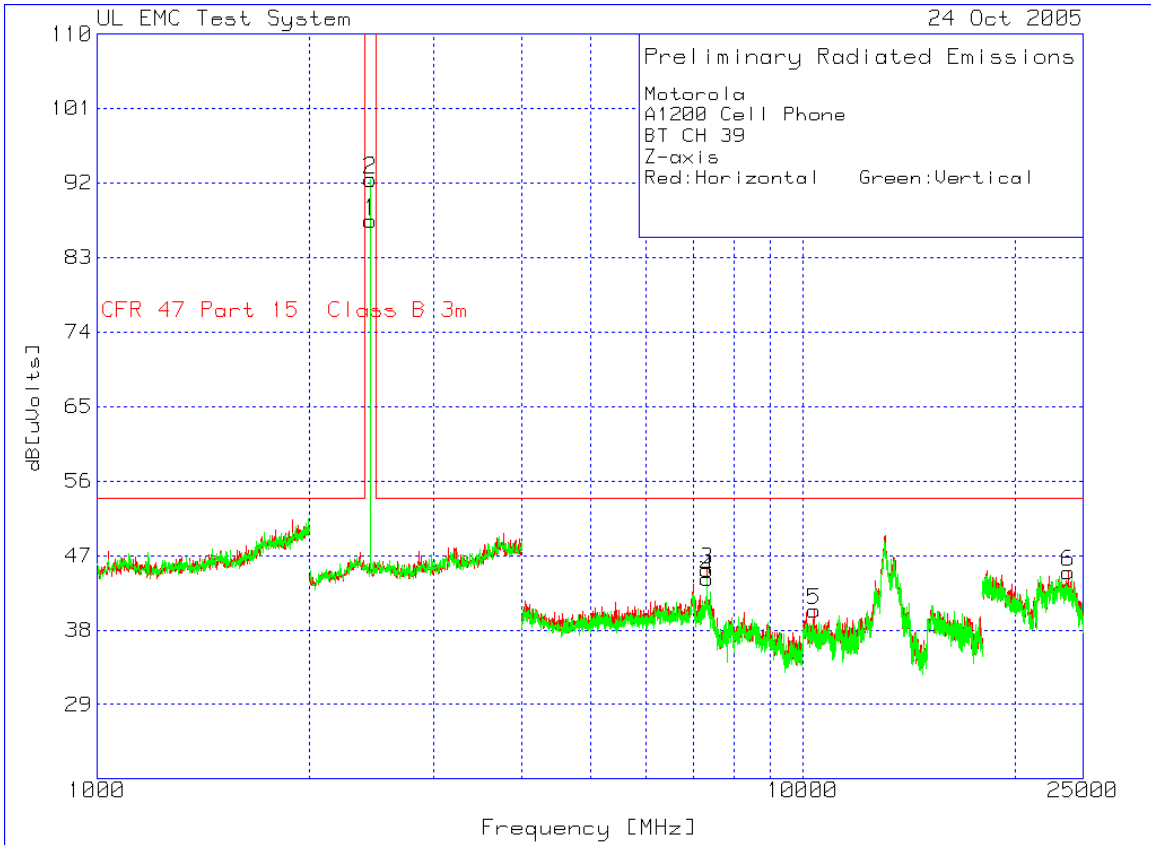


1-25 GHz Mid Channel Dual Polarization Y

Motorola
A1200 Cell Phone
BT CH 39
Y-axis
Red:Horizontal Green:Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts] | Limit 1 | Margin 1[dB] | Height [cm] | Polarity |
|------------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------|---------|--------------|-------------|----------|
| 2 - 4GHz 2000 - 4000MHz | | | | | | | | | | |
| 1 | 2440.882 | 62.66 pk | | 4.2 | 21.9 | 88.76 | 999 | -910.24 | 100 | Horz |
| 4 - 8GHz 4000 - 8000MHz | | | | | | | | | | |
| 3 | 7323.323 | 61.28 pk | | -46.3 | 30.6 | 45.58 | 54 | -8.42 | 100 | Horz |
| 12 - 18GHz 12000 - 18000MHz | | | | | | | | | | |
| 5 | 13105.105 | 43.43 pk | | -33.8 | 39.8 | 49.43 | 54 | -4.57 | 100 | Horz |
| 18-26.5GHz 18000 - 25000MHz | | | | | | | | | | |
| 6 | 23066.066 | 60.95 pk | | -56.5 | 40.3 | 44.75 | 54 | -9.25 | 100 | Horz |
| 2 - 4GHz 2000 - 4000MHz | | | | | | | | | | |
| 2 | 2440.882 | 67.47 pk | | 4.2 | 21.9 | 93.57 | 999 | -905.43 | 100 | Vert |
| 4 - 8GHz 4000 - 8000MHz | | | | | | | | | | |
| 4 | 7323.323 | 61.72 pk | | -46.3 | 30.6 | 46.02 | 54 | -7.98 | 100 | Vert |

LIMIT 1: CFR 47 Part 15 Class B 3m



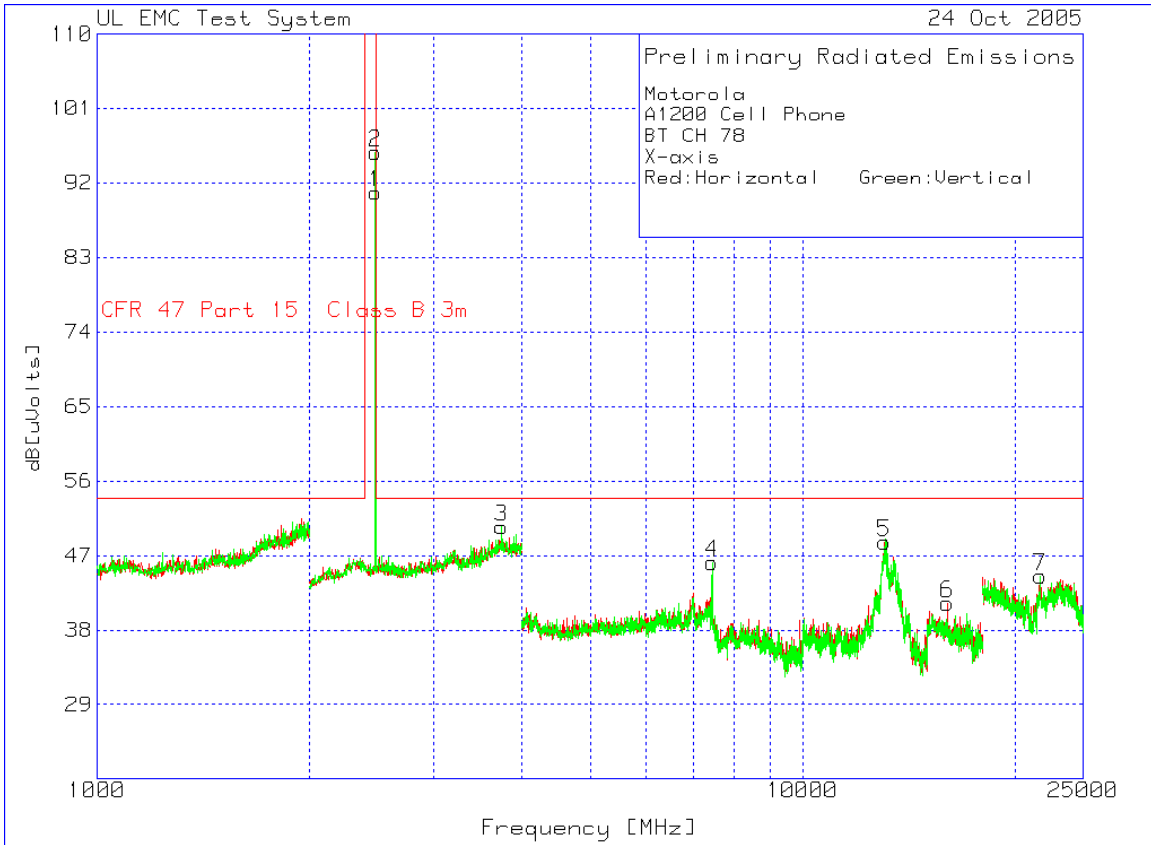
1-25 GHz Mid Channel Dual Polarization Z

Motorola
 A1200 Cell Phone
 BT CH 39
 Z-axis

Red:Horizontal Green:Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts] | Limit 1 | Margin 1[dB] | Height [cm] | Polarity |
|------------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------|---------|--------------|-------------|----------|
| 2 - 4GHz 2000 - 4000MHz | | | | | | | | | | |
| 1 | 2440.882 | 61.32 | pk | 4.2 | 21.9 | 87.42 | 999 | -911.58 | 100 | Horz |
| 4 - 8GHz 4000 - 8000MHz | | | | | | | | | | |
| 3 | 7323.323 | 60.97 | pk | -46.3 | 30.6 | 45.27 | 54 | -8.73 | 100 | Horz |
| 8 - 12GHz 8000 - 12000MHz | | | | | | | | | | |
| 5 | 10386.386 | 52.17 | pk | -48.1 | 36.3 | 40.37 | 54 | -13.63 | 100 | Horz |
| 18-26.5GHz 18000 - 25000MHz | | | | | | | | | | |
| 6 | 23801.802 | 61.78 | pk | -57.1 | 40.3 | 44.98 | 54 | -9.02 | 100 | Horz |
| 2 - 4GHz 2000 - 4000MHz | | | | | | | | | | |
| 2 | 2440.882 | 66.36 | pk | 4.2 | 21.9 | 92.46 | 999 | -906.54 | 100 | Vert |
| 4 - 8GHz 4000 - 8000MHz | | | | | | | | | | |
| 4 | 7323.323 | 59.85 | pk | -46.3 | 30.6 | 44.15 | 54 | -9.85 | 100 | Vert |

LIMIT 1: CFR 47 Part 15 Class B 3m

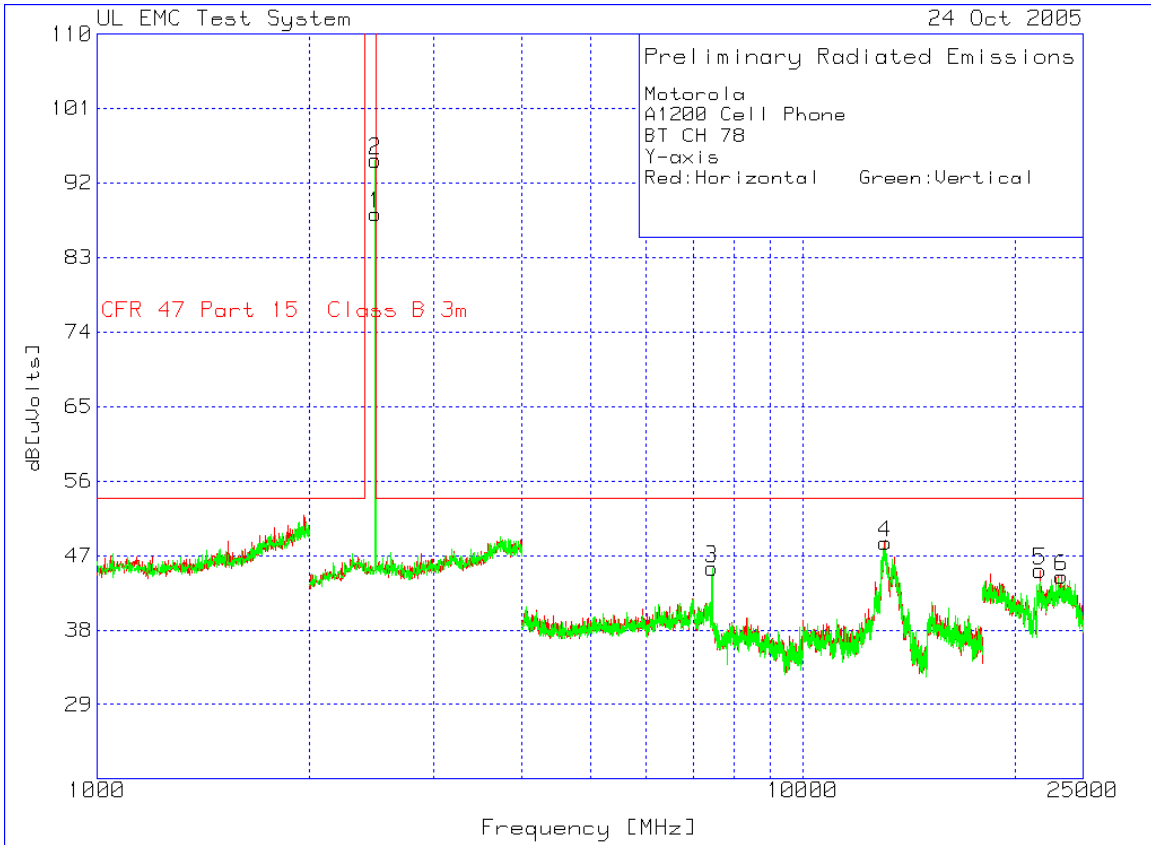


1-25 GHz High Channel Dual Polarization X

Motorola
A1200 Cell Phone
BT CH 78
X-axis

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts] | Limit 1 | Margin 1[dB] | Height [cm] | Polarity |
|------------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------|---------|--------------|-------------|----------|
| 2 - 4GHz 2000 - 4000MHz | | | | | | | | | | |
| 1 | 2480.962 | 64.75 pk | | 4.1 | 22 | 90.85 | 999 | -908.15 | 100 | Horz |
| 12 - 18GHz 12000 - 18000MHz | | | | | | | | | | |
| 5 | 13069.069 | 42.84 pk | | -34 | 39.8 | 48.64 | 54 | -5.36 | 100 | Horz |
| 6 | 16048.048 | 42.36 pk | | -41 | 39.9 | 41.26 | 54 | -12.74 | 100 | Horz |
| 2 - 4GHz 2000 - 4000MHz | | | | | | | | | | |
| 2 | 2480.962 | 69.63 pk | | 4.1 | 22 | 95.73 | 999 | -903.27 | 149 | Vert |
| 3 | 3747.495 | 20.97 pk | | 5.7 | 23.8 | 50.47 | 54 | -3.53 | 100 | Vert |
| 4 - 8GHz 4000 - 8000MHz | | | | | | | | | | |
| 4 | 7443.443 | 62.57 pk | | -46.9 | 30.5 | 46.17 | 54 | -7.83 | 100 | Vert |
| 18-26.5GHz 18000 - 25000MHz | | | | | | | | | | |
| 7 | 21734.735 | 65.31 pk | | -61.2 | 40.4 | 44.51 | 54 | -9.49 | 100 | Vert |

LIMIT 1: CFR 47 Part 15 Class B 3m



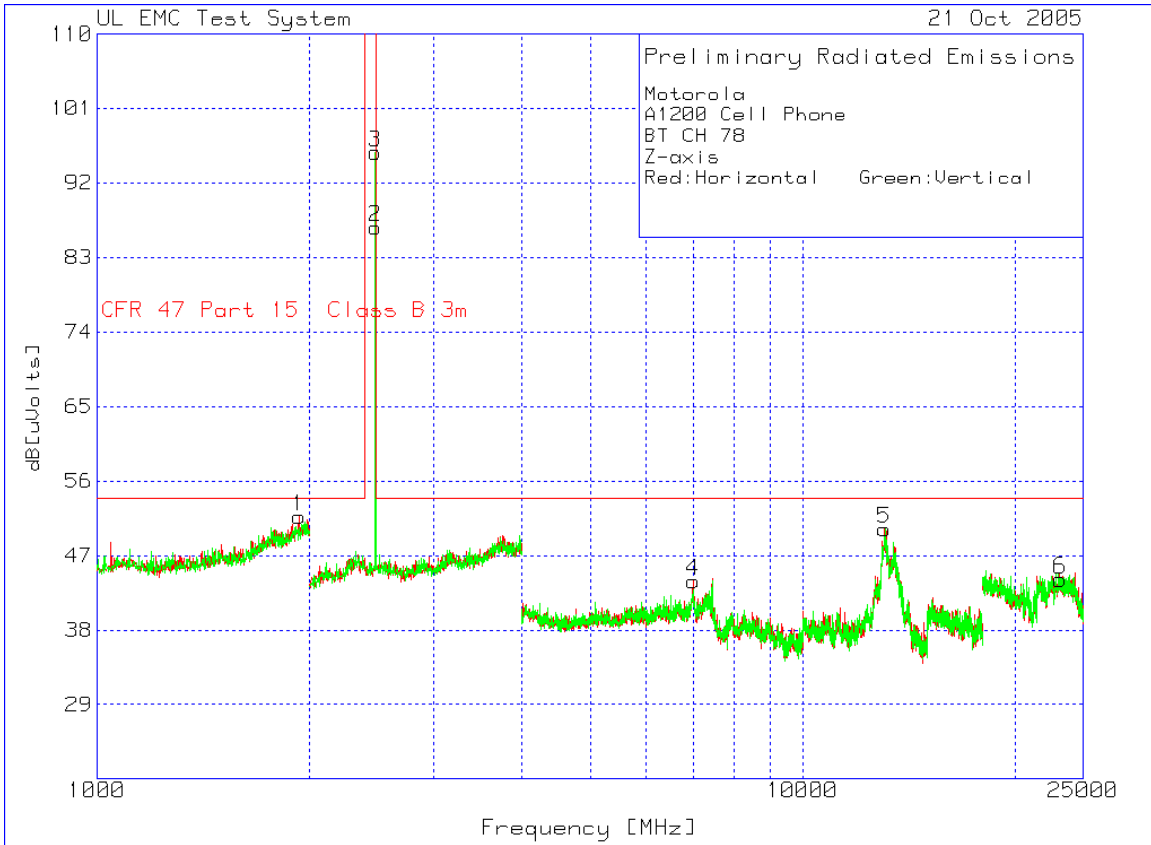
1-25 GHz High Channel Dual Polarization Y

Motorola
 A1200 Cell Phone
 BT CH 78
 Y-axis

Red:Horizontal Green:Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts] | Limit 1 | Margin 1[dB] | Height [cm] | Polarity |
|------------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------|---------|--------------|-------------|----------|
| 2 - 4GHz 2000 - 4000MHz | | | | | | | | | | |
| 1 | 2480.962 | 62.19 pk | | 4.1 | 22 | 88.29 | 999 | -910.71 | 100 | Horz |
| 18-26.5GHz 18000 - 25000MHz | | | | | | | | | | |
| 5 | 21699.7 | 66 pk | | -61.2 | 40.4 | 45.2 | 54 | -8.8 | 100 | Horz |
| 6 | 23262.262 | 60.49 pk | | -56.3 | 40.3 | 44.49 | 54 | -9.51 | 100 | Horz |
| 2 - 4GHz 2000 - 4000MHz | | | | | | | | | | |
| 2 | 2480.962 | 68.65 pk | | 4.1 | 22 | 94.75 | 999 | -904.25 | 100 | Vert |
| 4 - 8GHz 4000 - 8000MHz | | | | | | | | | | |
| 3 | 7443.443 | 61.89 pk | | -46.9 | 30.5 | 45.49 | 54 | -8.51 | 100 | Vert |
| 12 - 18GHz 12000 - 18000MHz | | | | | | | | | | |
| 4 | 13093.093 | 42.47 pk | | -33.7 | 39.8 | 48.57 | 54 | -5.43 | 100 | Vert |

LIMIT 1: CFR 47 Part 15 Class B 3m



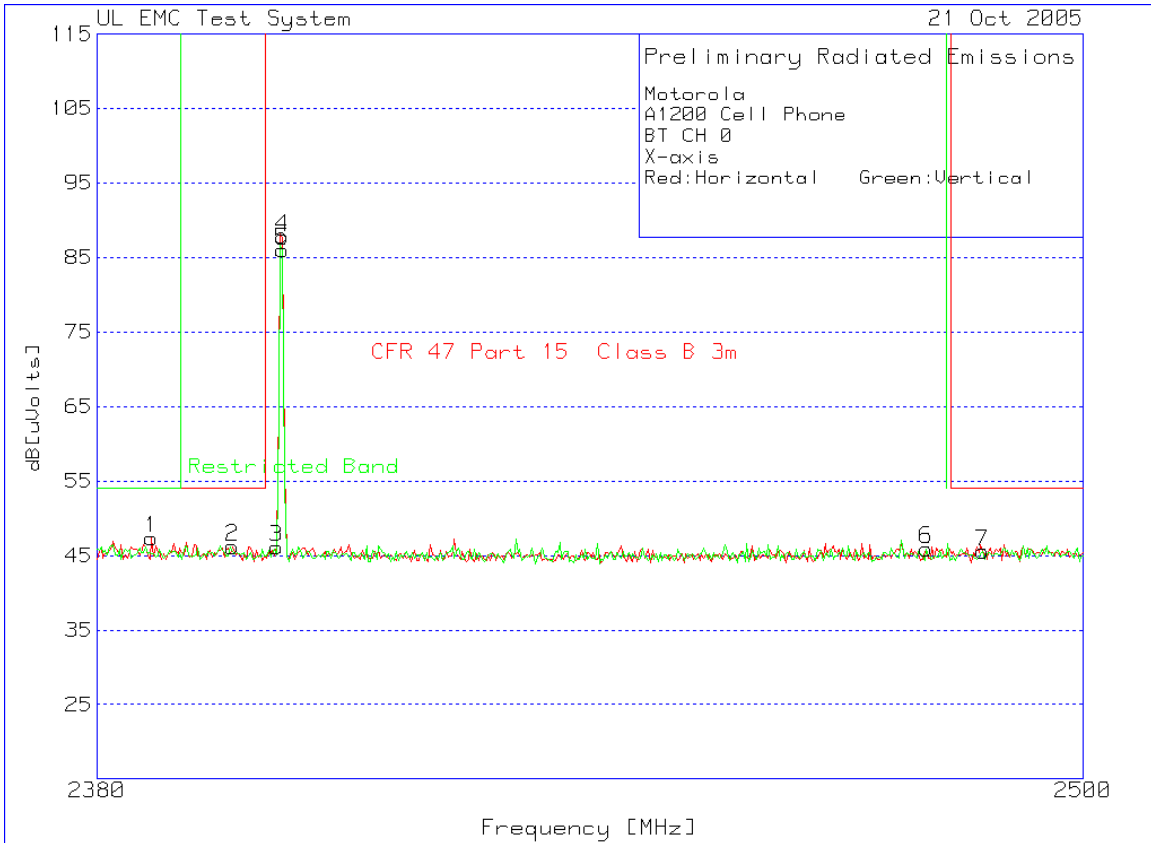
1-25 GHz High Channel Dual Polarization Z

Motorola
 A1200 Cell Phone
 BT CH 78
 Z-axis

Red:Horizontal Green:Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts] | Limit 1 | Margin 1[dB] | Height [cm] | Polarity |
|------------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------|---------|--------------|-------------|----------|
| 1 - 2GHz 1000 - 2000MHz | | | | | | | | | | |
| 1 | 1931.864 | 20.59 pk | | 3.6 | 27.5 | 51.69 | 54 | -2.31 | 104 | Horz |
| 2 - 4GHz 2000 - 4000MHz | | | | | | | | | | |
| 2 | 2480.962 | 60.54 pk | | 4.1 | 22 | 86.64 | 999 | -912.36 | 104 | Horz |
| 4 - 8GHz 4000 - 8000MHz | | | | | | | | | | |
| 4 | 6994.995 | 58.9 pk | | -44.3 | 29.3 | 43.9 | 54 | -10.1 | 104 | Horz |
| 12 - 18GHz 12000 - 18000MHz | | | | | | | | | | |
| 5 | 13069.069 | 44.38 pk | | -34 | 39.8 | 50.18 | 54 | -3.82 | 104 | Horz |
| 2 - 4GHz 2000 - 4000MHz | | | | | | | | | | |
| 3 | 2480.962 | 69.59 pk | | 4.1 | 22 | 95.69 | 999 | -903.31 | 100 | Vert |
| 18-26.5GHz 18000 - 25000MHz | | | | | | | | | | |
| 6 | 23199.199 | 60.01 pk | | -56.2 | 40.3 | 44.11 | 54 | -9.89 | 100 | Vert |

LIMIT 1: CFR 47 Part 15 Class B 3m



Authorized Band Emissions Low Channel Dual Polarization X

Motorola
A1200 Cell Phone
BT CH 0
X-axis

Red:Horizontal Green:Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain Factor [dB] | Loss Factor [dB] | Transducer Level [dB(uVolts)] | Limit 1 | Margin 1[dB] | Limit 2 | Margin 2[dB] | Height [cm] | Polarity |
|--------------------------------|----------------------|------------------------|---------------|------------------|------------------|-------------------------------|---------|--------------|---------|--------------|-------------|----------|
| 2 - 4GHz 2380 - 2500MHz | | | | | | | | | | | | |
| 1 | 2386.493 | 21.1 pk | | 4.4 | 21.8 | 47.3 | 54 | -6.7 | 54 | -6.7 | 104 | Horz |
| 2 | 2396.112 | 20 pk | | 4.4 | 21.8 | 46.2 | 54 | -7.8 | 999 | -952.8 | 104 | Horz |
| 3 | 2401.403 | 19.89 pk | | 4.4 | 21.8 | 46.09 | 999 | -952.91 | 999 | -952.91 | 104 | Horz |
| 4 | 2402.124 | 61.57 pk | | 4.4 | 21.8 | 87.77 | 999 | -911.23 | 999 | -911.23 | 104 | Horz |
| 2 - 4GHz 2380 - 2500MHz | | | | | | | | | | | | |
| 5 | 2402.124 | 59.83 pk | | 4.4 | 21.8 | 86.03 | 999 | -912.97 | 999 | -912.97 | 104 | Vert |
| 6 | 2480.521 | 19.81 pk | | 4.1 | 22 | 45.91 | 999 | -953.09 | 999 | -953.09 | 104 | Vert |
| 7 | 2487.495 | 19.36 pk | | 4.1 | 22.1 | 45.56 | 54 | -8.44 | 0 | 45.56 | 104 | Vert |

LIMIT 1: CFR 47 Part 15 Class B 3m
LIMIT 2: Restricted Band



Authorized Band Emissions Low Channel Dual Polarization Y

Motorola
 A1200 Cell Phone
 BT CH 0
 Y-axis

Red:Horizontal Green:Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts] | Limit 1 | Margin 1[dB] | Limit 2 | Margin 2[dB] | Height [cm] | Polarity |
|--------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------|---------|--------------|---------|--------------|-------------|----------|
| 2 - 4GHz 2380 - 2500MHz | | | | | | | | | | | | |
| 1 | 2386.974 | 20.78 | pk | 4.4 | 21.8 | 46.98 | 54 | -7.02 | 54 | -7.02 | 100 | Horz |
| 2 | 2395.391 | 19.88 | pk | 4.4 | 21.8 | 46.08 | 54 | -7.92 | 999 | -952.92 | 100 | Horz |
| 3 | 2401.162 | 19.21 | pk | 4.4 | 21.8 | 45.41 | 999 | -953.59 | 999 | -953.59 | 150 | Horz |
| 4 | 2402.124 | 66.81 | pk | 4.4 | 21.8 | 93.01 | 999 | -905.99 | 999 | -905.99 | 100 | Horz |
| 2 - 4GHz 2380 - 2500MHz | | | | | | | | | | | | |
| 5 | 2402.124 | 67.46 | pk | 4.4 | 21.8 | 93.66 | 999 | -905.34 | 999 | -905.34 | 100 | Vert |
| 6 | 2481.243 | 19.73 | pk | 4.1 | 22 | 45.83 | 999 | -953.17 | 999 | -953.17 | 100 | Vert |
| 7 | 2487.014 | 19.85 | pk | 4.1 | 22.1 | 46.05 | 54 | -7.95 | 0 | 46.05 | 100 | Vert |

LIMIT 1: CFR 47 Part 15 Class B 3m
 LIMIT 2: Restricted Band



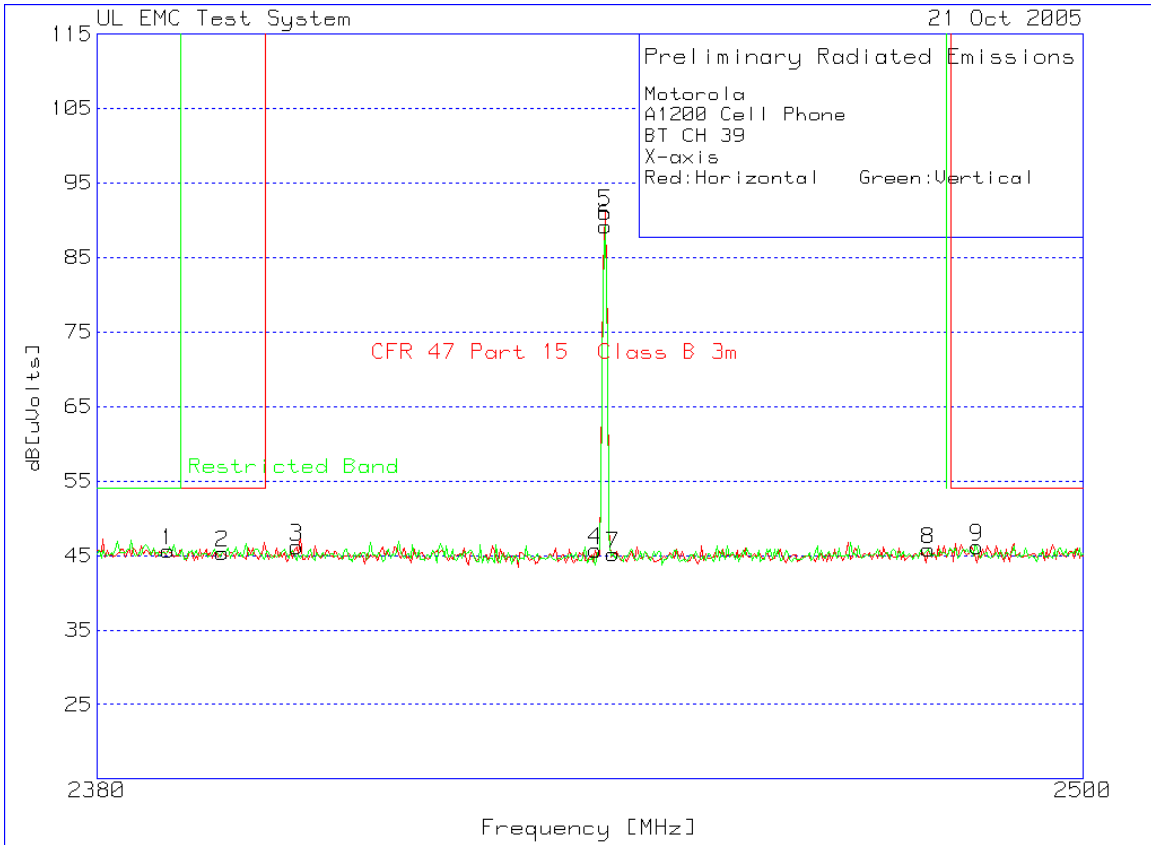
Authorized Band Emissions Low Channel Dual Polarization Z

Motorola
 A1200 Cell Phone
 BT CH 0
 Z-axis

Red:Horizontal Green:Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts] | Limit 1 | Margin 1[dB] | Limit 2 | Margin 2[dB] | Height [cm] | Polarity |
|--------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------|---------|--------------|---------|--------------|-------------|----------|
| 2 - 4GHz 2380 - 2500MHz | | | | | | | | | | | | |
| 1 | 2388.417 | 20.12 pk | | 4.4 | 21.8 | 46.32 | 54 | -7.68 | 54 | -7.68 | 104 | Horz |
| 2 | 2396.353 | 19.14 pk | | 4.4 | 21.8 | 45.34 | 54 | -8.66 | 999 | -953.66 | 104 | Horz |
| 3 | 2400.922 | 18.91 pk | | 4.4 | 21.8 | 45.11 | 999 | -953.89 | 999 | -953.89 | 104 | Horz |
| 4 | 2402.124 | 53.94 pk | | 4.4 | 21.8 | 80.14 | 999 | -918.86 | 999 | -918.86 | 104 | Horz |
| 6 | 2481.002 | 19.63 pk | | 4.1 | 22 | 45.73 | 999 | -953.27 | 999 | -953.27 | 104 | Horz |
| 7 | 2487.495 | 19.67 pk | | 4.1 | 22.1 | 45.87 | 54 | -8.13 | 0 | 45.87 | 104 | Horz |
| 2 - 4GHz 2380 - 2500MHz | | | | | | | | | | | | |
| 5 | 2402.124 | 64.86 pk | | 4.4 | 21.8 | 91.06 | 999 | -907.94 | 999 | -907.94 | 104 | Vert |

LIMIT 1: CFR 47 Part 15 Class B 3m
 LIMIT 2: Restricted Band



Authorized Band Emissions Mid Channel Dual Polarization X

Motorola
 A1200 Cell Phone
 BT CH 39

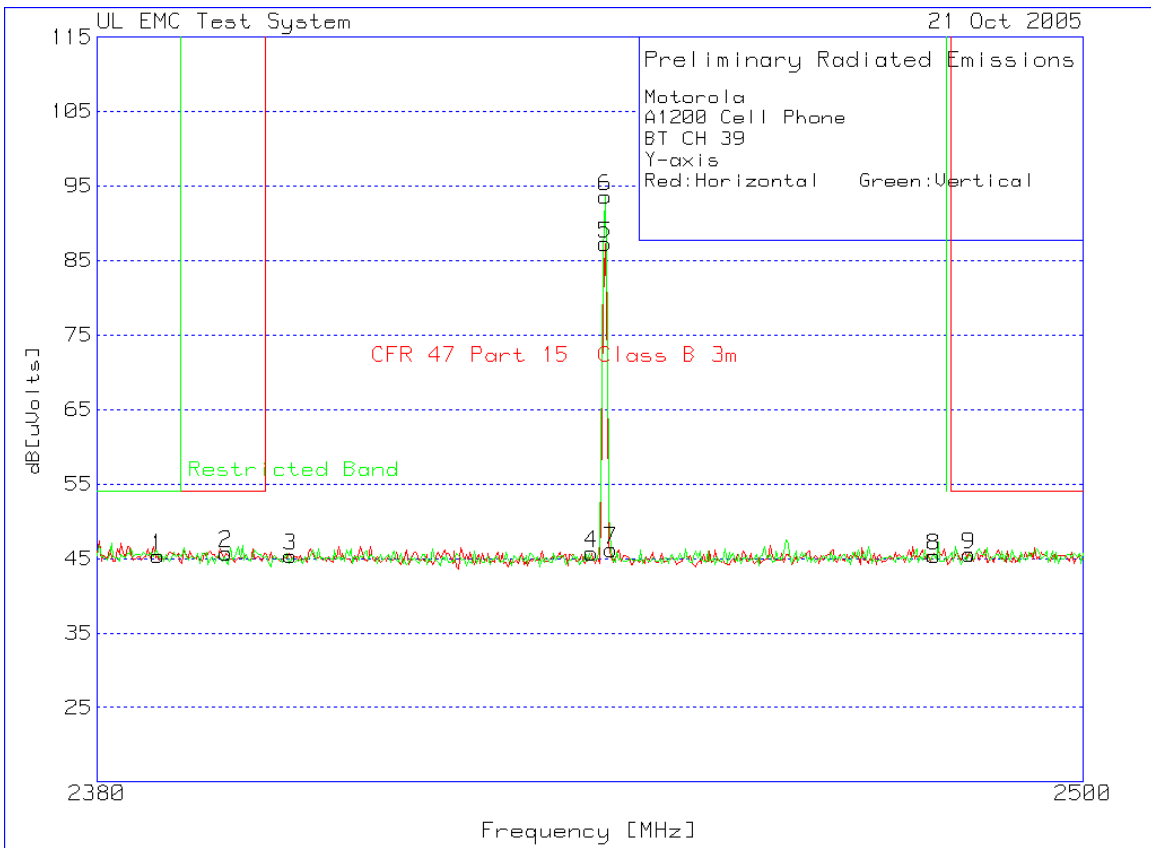
X-axis

Red:Horizontal Green:Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB[uVolts]] | Limit 1 | Margin 1[dB] | Limit 2 | Margin 2[dB] | Height [cm] | Polarity |
|--------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|--------------------|---------|--------------|---------|--------------|-------------|----------|
| 2 - 4GHz 2380 - 2500MHz | | | | | | | | | | | | |
| 1 | 2388.417 | 19.49 pk | | 4.4 | 21.8 | 45.69 | 54 | -8.31 | 54 | -8.31 | 104 | Horz |
| 2 | 2394.91 | 19.14 pk | | 4.4 | 21.8 | 45.34 | 54 | -8.66 | 999 | -953.66 | 104 | Horz |
| 3 | 2403.808 | 20.01 pk | | 4.4 | 21.8 | 46.21 | 999 | -952.79 | 999 | -952.79 | 104 | Horz |
| 4 | 2439.88 | 19.66 pk | | 4.2 | 21.9 | 45.76 | 999 | -953.24 | 999 | -953.24 | 104 | Horz |
| 5 | 2441.082 | 64.97 pk | | 4.2 | 21.9 | 91.07 | 999 | -907.93 | 999 | -907.93 | 104 | Horz |
| 2 - 4GHz 2380 - 2500MHz | | | | | | | | | | | | |
| 6 | 2441.082 | 63.06 pk | | 4.2 | 21.9 | 89.16 | 999 | -909.84 | 999 | -909.84 | 104 | Vert |
| 7 | 2442.044 | 19.14 pk | | 4.2 | 21.9 | 45.24 | 999 | -953.76 | 999 | -953.76 | 104 | Vert |
| 8 | 2480.762 | 19.73 pk | | 4.1 | 22 | 45.83 | 999 | -953.17 | 999 | -953.17 | 104 | Vert |
| 9 | 2486.774 | 20 pk | | 4.1 | 22.1 | 46.2 | 54 | -7.8 | 0 | 46.2 | 104 | Vert |

LIMIT 1: CFR 47 Part 15 Class B 3m

LIMIT 2: Restricted Band



Authorized Band Emissions Mid Channel Dual Polarization Y

Motorola
 A1200 Cell Phone
 BT CH 39

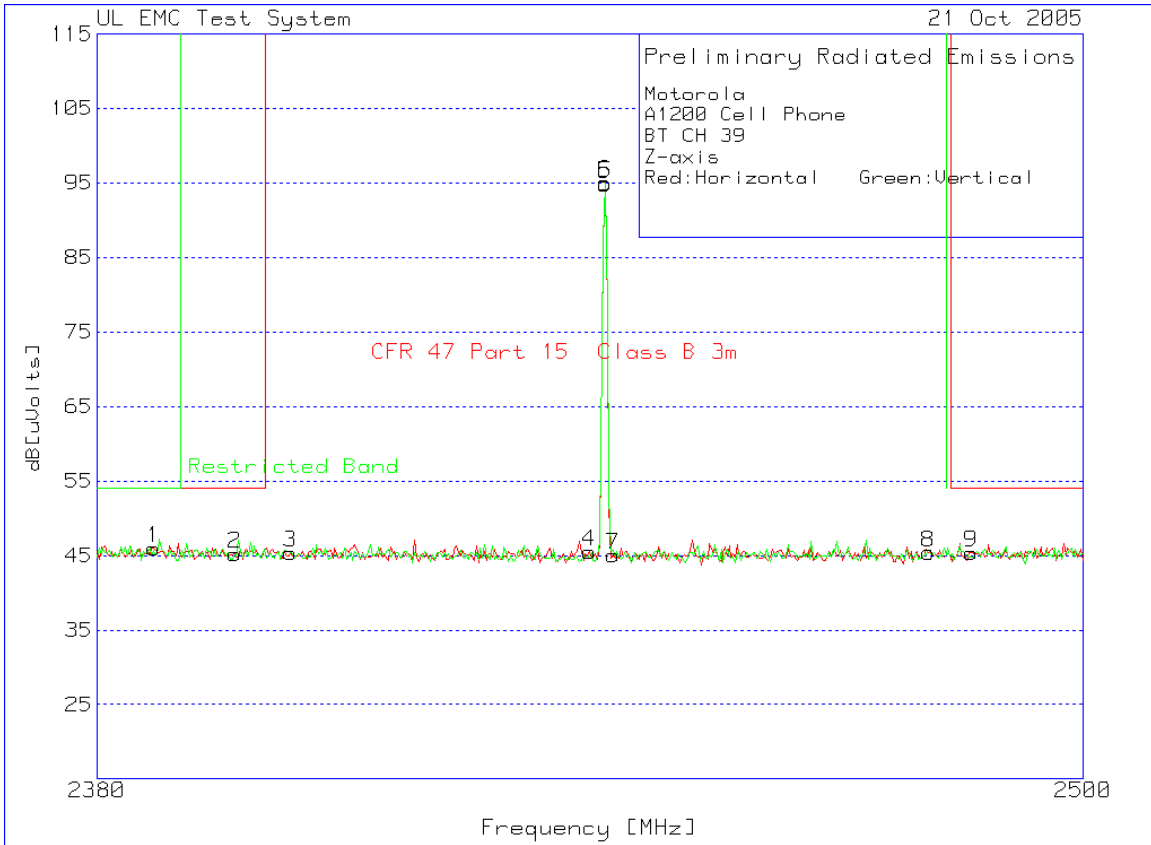
Y-axis

Red:Horizontal Green:Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts] | Limit 1 | Margin 1[dB] | Limit 2 | Margin 2[dB] | Height [cm] | Polarity |
|--------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------|---------|--------------|---------|--------------|-------------|----------|
| 2 - 4GHz 2380 - 2500MHz | | | | | | | | | | | | |
| 1 | 2387.214 | 19.18 pk | | 4.4 | 21.8 | 45.38 | 54 | -8.62 | 54 | -8.62 | 104 | Horz |
| 2 | 2395.391 | 19.53 pk | | 4.4 | 21.8 | 45.73 | 54 | -8.27 | 999 | -953.27 | 104 | Horz |
| 3 | 2403.086 | 19.18 pk | | 4.4 | 21.8 | 45.38 | 999 | -953.62 | 999 | -953.62 | 104 | Horz |
| 4 | 2439.399 | 19.65 pk | | 4.2 | 21.9 | 45.75 | 999 | -953.25 | 999 | -953.25 | 104 | Horz |
| 5 | 2441.082 | 61.17 pk | | 4.2 | 21.9 | 87.27 | 999 | -911.73 | 999 | -911.73 | 104 | Horz |
| 2 - 4GHz 2380 - 2500MHz | | | | | | | | | | | | |
| 6 | 2441.082 | 67.5 pk | | 4.2 | 21.9 | 93.6 | 999 | -905.4 | 999 | -905.4 | 104 | Vert |
| 7 | 2441.804 | 20.09 pk | | 4.2 | 21.9 | 46.19 | 999 | -952.81 | 999 | -952.81 | 104 | Vert |
| 8 | 2481.483 | 19.26 pk | | 4.1 | 22 | 45.36 | 999 | -953.64 | 999 | -953.64 | 104 | Vert |
| 9 | 2485.812 | 19.36 pk | | 4.1 | 22.1 | 45.56 | 54 | -8.44 | 0 | 45.56 | 104 | Vert |

LIMIT 1: CFR 47 Part 15 Class B 3m

LIMIT 2: Restricted Band



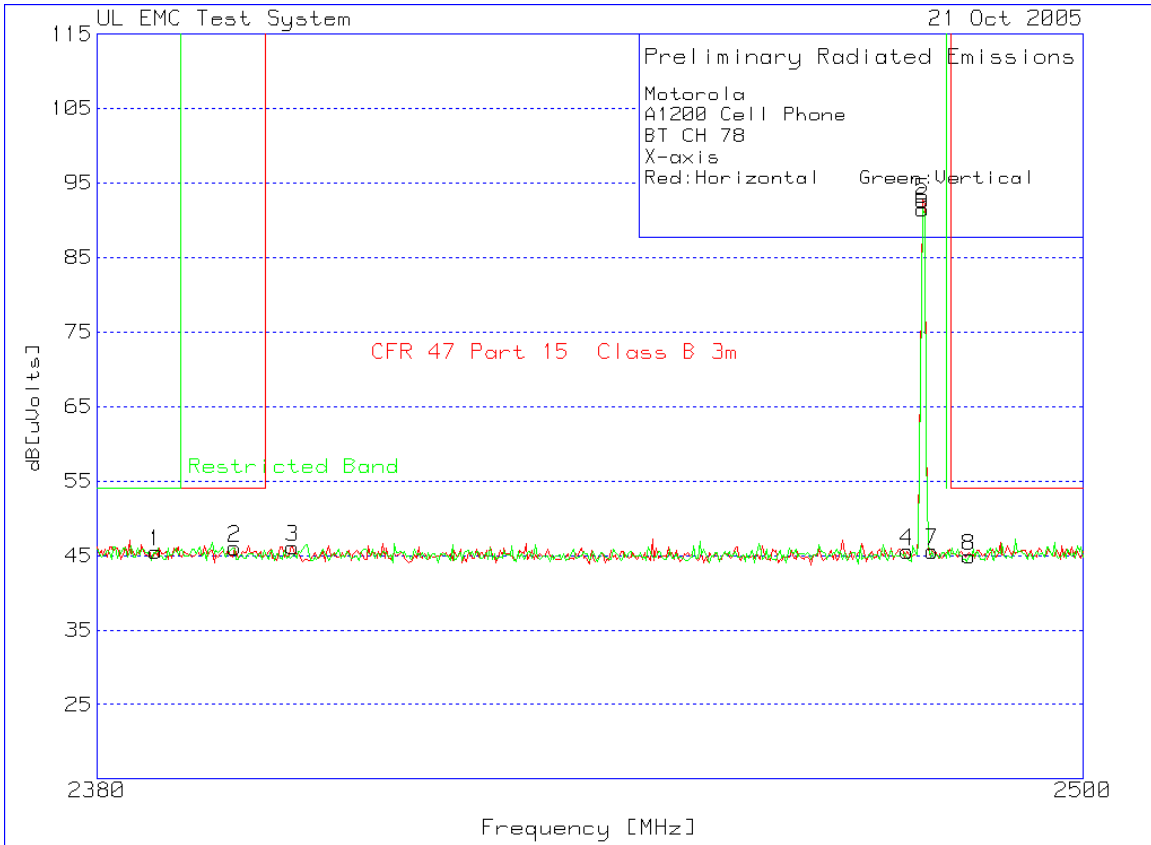
Authorized Band Emissions Mid Channel Dual Polarization Z

Motorola
 A1200 Cell Phone
 BT CH 39
 Z-axis

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts] | Limit 1 | Margin 1[dB] | Limit 2 | Margin 2[dB] | Height [cm] | Polarity |
|--------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------|---------|--------------|---------|--------------|-------------|----------|
| 2 - 4GHz 2380 - 2500MHz | | | | | | | | | | | | |
| 1 | 2386.733 | 19.75 pk | | 4.4 | 21.8 | 45.95 | 54 | -8.05 | 54 | -8.05 | 104 | Horz |
| 2 | 2396.353 | 18.99 pk | | 4.4 | 21.8 | 45.19 | 54 | -8.81 | 999 | -953.81 | 104 | Horz |
| 3 | 2403.086 | 19.14 pk | | 4.4 | 21.8 | 45.34 | 999 | -953.66 | 999 | -953.66 | 104 | Horz |
| 4 | 2439.158 | 19.4 pk | | 4.2 | 21.9 | 45.5 | 999 | -953.5 | 999 | -953.5 | 104 | Horz |
| 5 | 2441.082 | 68.76 pk | | 4.2 | 21.9 | 94.86 | 999 | -904.14 | 999 | -904.14 | 104 | Horz |
| 7 | 2442.044 | 18.93 pk | | 4.2 | 21.9 | 45.03 | 999 | -953.97 | 999 | -953.97 | 104 | Horz |
| 8 | 2480.762 | 19.3 pk | | 4.1 | 22 | 45.4 | 999 | -953.6 | 999 | -953.6 | 104 | Horz |
| 9 | 2486.052 | 19.16 pk | | 4.1 | 22.1 | 45.36 | 54 | -8.64 | 0 | 45.36 | 104 | Horz |

2 - 4GHz 2380 - 2500MHz
 6 2441.082 68.96 pk

LIMIT 1: CFR 47 Part 15 Class B 3m
 LIMIT 2: Restricted Band



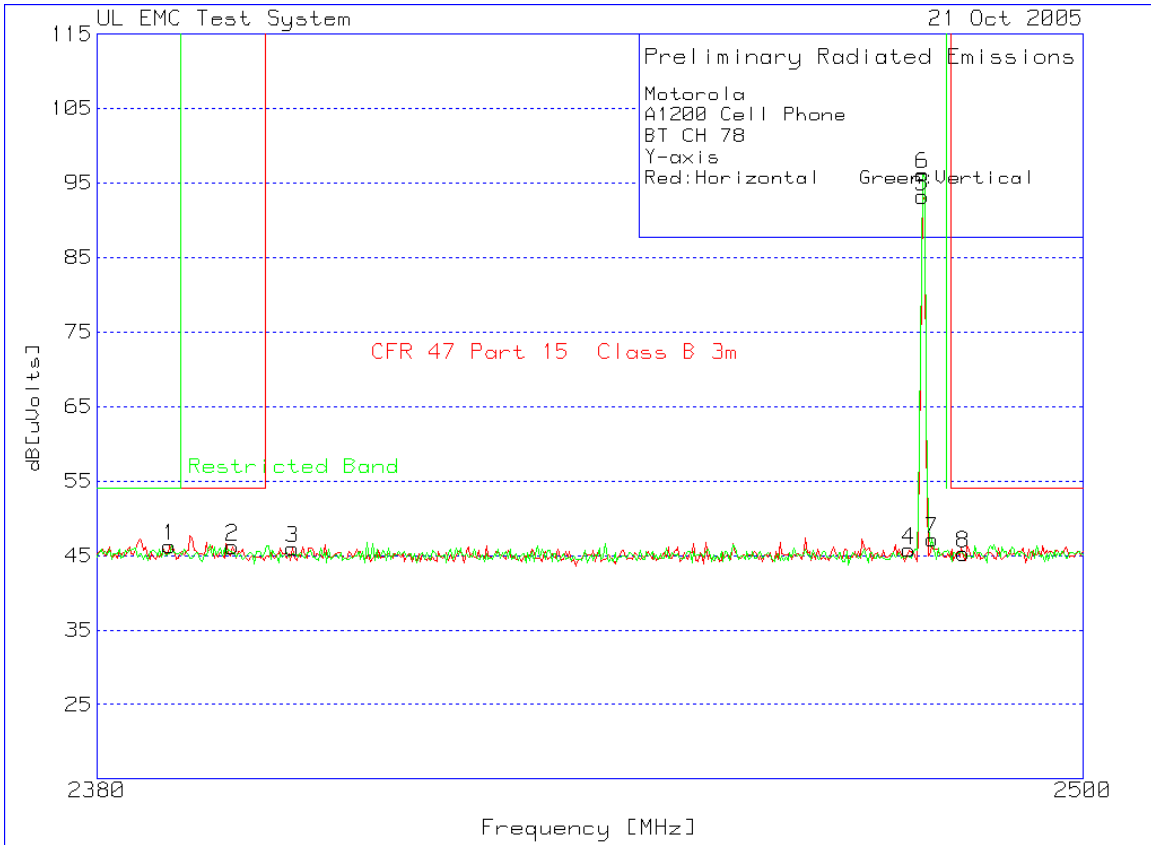
Authorized Band Emissions High Channel Dual Polarization X

Motorola
 A1200 Cell Phone
 BT CH 78
 X-axis

Red:Horizontal Green:Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts] | Limit 1 | Margin 1[dB] | Limit 2 | Margin 2[dB] | Height [cm] | Polarity |
|--------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------|---------|--------------|---------|--------------|-------------|----------|
| 2 - 4GHz 2380 - 2500MHz | | | | | | | | | | | | |
| 1 | 2386.974 | 19.28 pk | | 4.4 | 21.8 | 45.48 | 54 | -8.52 | 54 | -8.52 | 104 | Horz |
| 2 | 2396.353 | 19.87 pk | | 4.4 | 21.8 | 46.07 | 54 | -7.93 | 999 | -952.93 | 104 | Horz |
| 3 | 2403.327 | 19.91 pk | | 4.4 | 21.8 | 46.11 | 999 | -952.89 | 999 | -952.89 | 104 | Horz |
| 4 | 2478.116 | 19.49 pk | | 4.1 | 22 | 45.59 | 999 | -953.41 | 999 | -953.41 | 104 | Horz |
| 5 | 2480.04 | 66.58 pk | | 4.1 | 22 | 92.68 | 999 | -906.32 | 999 | -906.32 | 104 | Horz |
| 2 - 4GHz 2380 - 2500MHz | | | | | | | | | | | | |
| 6 | 2480.04 | 65.36 pk | | 4.1 | 22 | 91.46 | 999 | -907.54 | 999 | -907.54 | 104 | Vert |
| 7 | 2481.243 | 19.48 pk | | 4.1 | 22 | 45.58 | 999 | -953.42 | 999 | -953.42 | 104 | Vert |
| 8 | 2485.812 | 18.72 pk | | 4.1 | 22.1 | 44.92 | 54 | -9.08 | 0 | 44.92 | 104 | Vert |

LIMIT 1: CFR 47 Part 15 Class B 3m
 LIMIT 2: Restricted Band



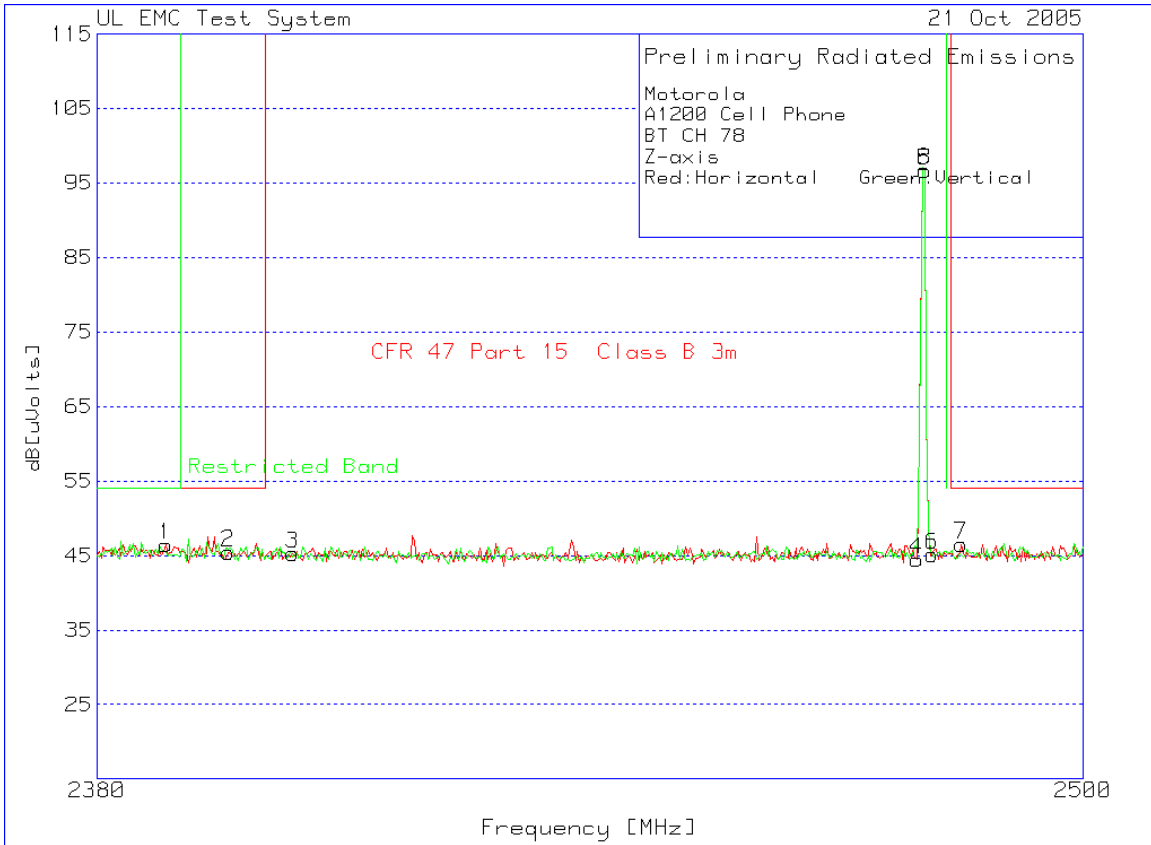
Authorized Band Emissions High Channel Dual Polarization Y

Motorola
 A1200 Cell Phone
 BT CH 78
 Y-axis

Red:Horizontal Green:Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level dB[uVolts] | Limit 1 | Margin 1[dB] | Limit 2 | Margin 2[dB] | Height [cm] | Polarity |
|--------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|------------------|---------|--------------|---------|--------------|-------------|----------|
| 2 - 4GHz 2380 - 2500MHz | | | | | | | | | | | | |
| 1 | 2388.657 | 20.06 | pk | 4.4 | 21.8 | 46.26 | 54 | -7.74 | 54 | -7.74 | 104 | Horz |
| 2 | 2396.112 | 20.01 | pk | 4.4 | 21.8 | 46.21 | 54 | -7.79 | 999 | -952.79 | 104 | Horz |
| 3 | 2403.327 | 19.79 | pk | 4.4 | 21.8 | 45.99 | 999 | -953.01 | 999 | -953.01 | 104 | Horz |
| 4 | 2478.357 | 19.67 | pk | 4.1 | 22 | 45.77 | 999 | -953.23 | 999 | -953.23 | 104 | Horz |
| 5 | 2480.04 | 67.14 | pk | 4.1 | 22 | 93.24 | 999 | -905.76 | 999 | -905.76 | 104 | Horz |
| 2 - 4GHz 2380 - 2500MHz | | | | | | | | | | | | |
| 6 | 2480.04 | 70.05 | pk | 4.1 | 22 | 96.15 | 999 | -902.85 | 999 | -902.85 | 104 | Vert |
| 7 | 2481.243 | 21.09 | pk | 4.1 | 22 | 47.19 | 999 | -951.81 | 999 | -951.81 | 104 | Vert |
| 8 | 2485.09 | 19.08 | pk | 4.1 | 22.1 | 45.28 | 54 | -8.72 | 0 | 45.28 | 104 | Vert |

LIMIT 1: CFR 47 Part 15 Class B 3m
 LIMIT 2: Restricted Band



Authorized Band Emissions High Channel Dual Polarization Z

Motorola
 A1200 Cell Phone
 BT CH 78
 Z-axis

Red:Horizontal Green:Vertical

| Marker Number | Test Frequency [MHz] | Meter Reading [dB(uV)] | Detector Type | Gain/Loss Factor [dB] | Transducer Factor [dB] | Level [dB[uVolts]] | Limit 1 | Margin 1 [dB] | Limit 2 | Margin 2 [dB] | Height [cm] | Polarity |
|--------------------------------|----------------------|------------------------|---------------|-----------------------|------------------------|--------------------|---------|---------------|---------|---------------|-------------|----------|
| 2 - 4GHz 2380 - 2500MHz | | | | | | | | | | | | |
| 1 | 2388.176 | 20.19 pk | | 4.4 | 21.8 | 46.39 | 54 | -7.61 | 54 | -7.61 | 104 | Horz |
| 2 | 2395.631 | 19.23 pk | | 4.4 | 21.8 | 45.43 | 54 | -8.57 | 999 | -953.57 | 104 | Horz |
| 3 | 2403.327 | 19.06 pk | | 4.4 | 21.8 | 45.26 | 999 | -953.74 | 999 | -953.74 | 104 | Horz |
| 4 | 2479.319 | 18.36 pk | | 4.1 | 22 | 44.46 | 999 | -954.54 | 999 | -954.54 | 104 | Horz |
| 5 | 2480.281 | 70.51 pk | | 4.1 | 22 | 96.61 | 999 | -902.39 | 999 | -902.39 | 104 | Horz |
| 6 | 2481.243 | 19.01 pk | | 4.1 | 22 | 45.11 | 999 | -953.89 | 999 | -953.89 | 104 | Horz |
| 7 | 2484.85 | 20.28 pk | | 4.1 | 22.1 | 46.48 | 54 | -7.52 | 0 | 46.48 | 104 | Horz |

2 - 4GHz 2380 - 2500MHz

| | | | | | | | | | | | | |
|---|----------|----------|--|-----|----|-------|-----|---------|-----|---------|-----|------|
| 8 | 2480.281 | 70.58 pk | | 4.1 | 22 | 96.68 | 999 | -902.32 | 999 | -902.32 | 104 | Vert |
|---|----------|----------|--|-----|----|-------|-----|---------|-----|---------|-----|------|

LIMIT 1: CFR 47 Part 15 Class B 3m
 LIMIT 2: Restricted Band

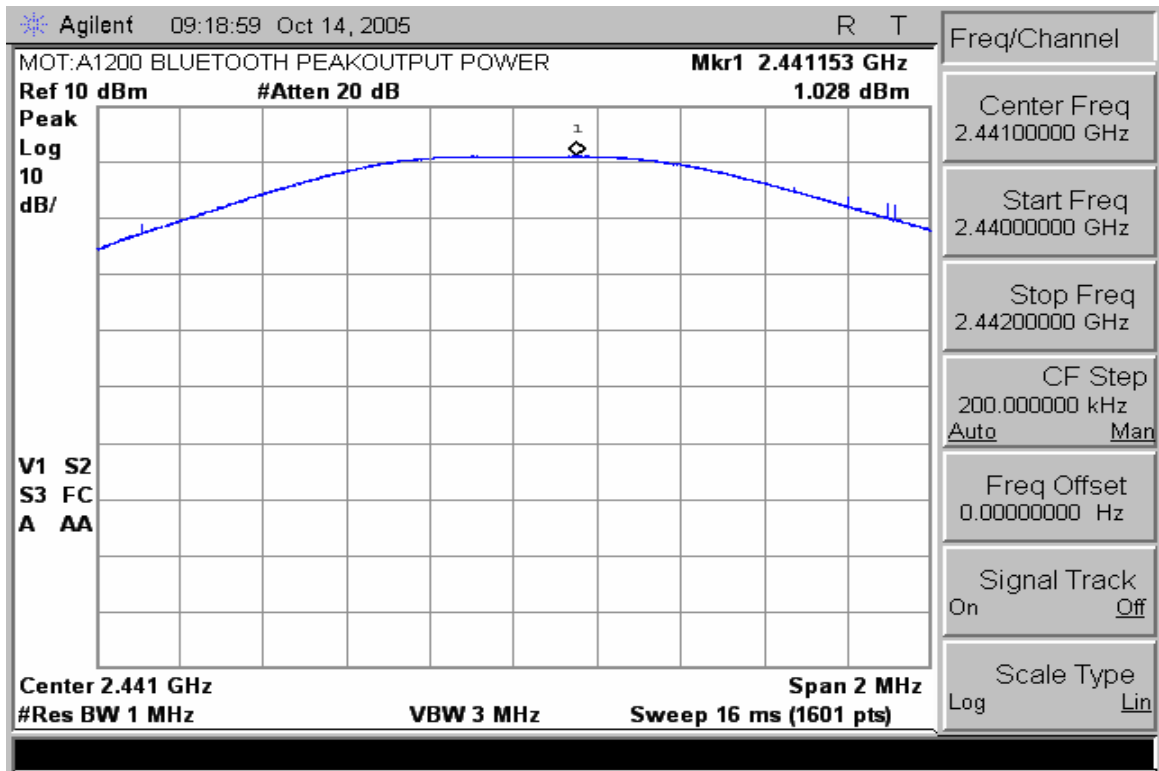
PEAK OUTPUT POWER

CFR 47 Part 15.247

Measurement Procedure

The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

Measurement Results



Peak Output Power

BAND-EDGE COMPLIANCE OF RF CONDUCTED EMISSIONS

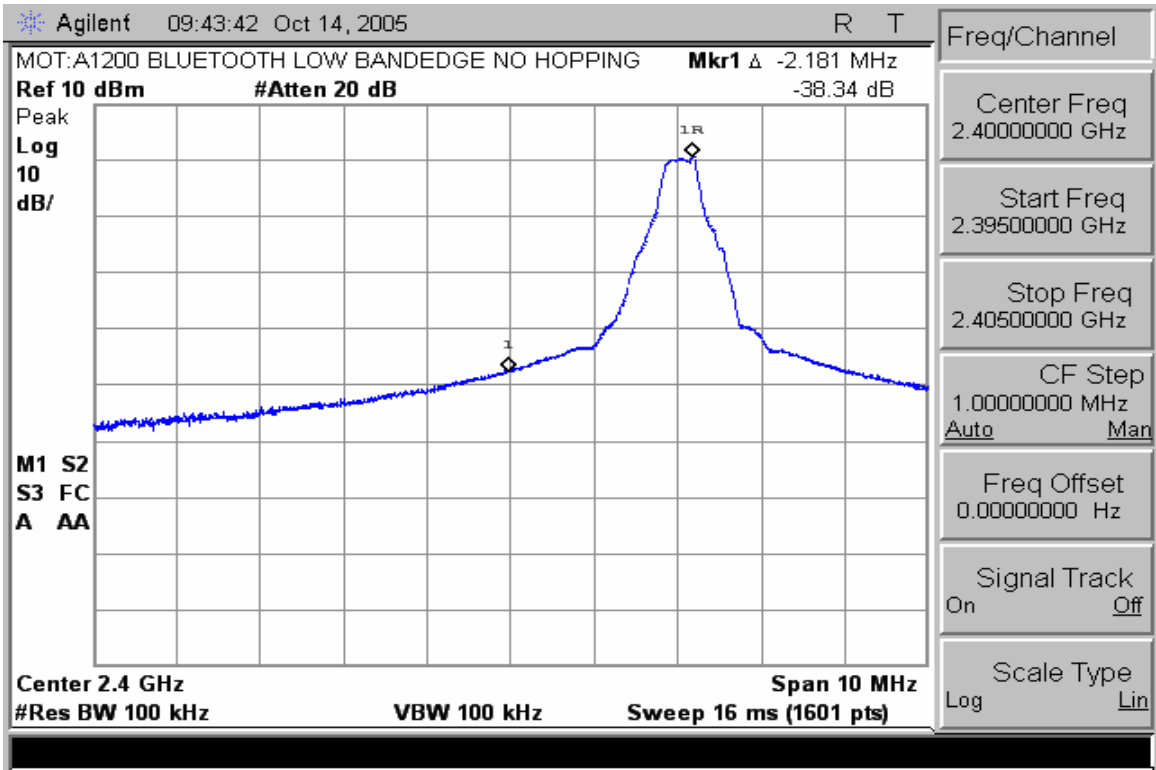
CFR 47 Part 15.247

Measurement Procedure

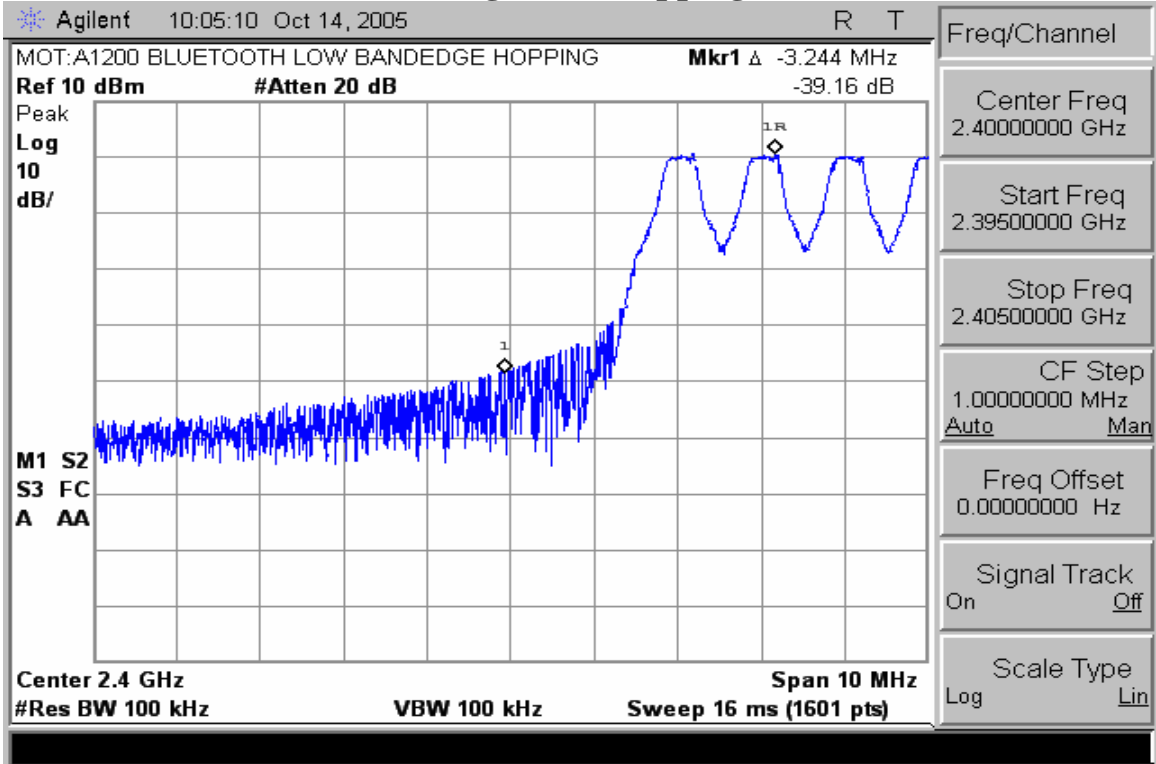
The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

Measurement Results

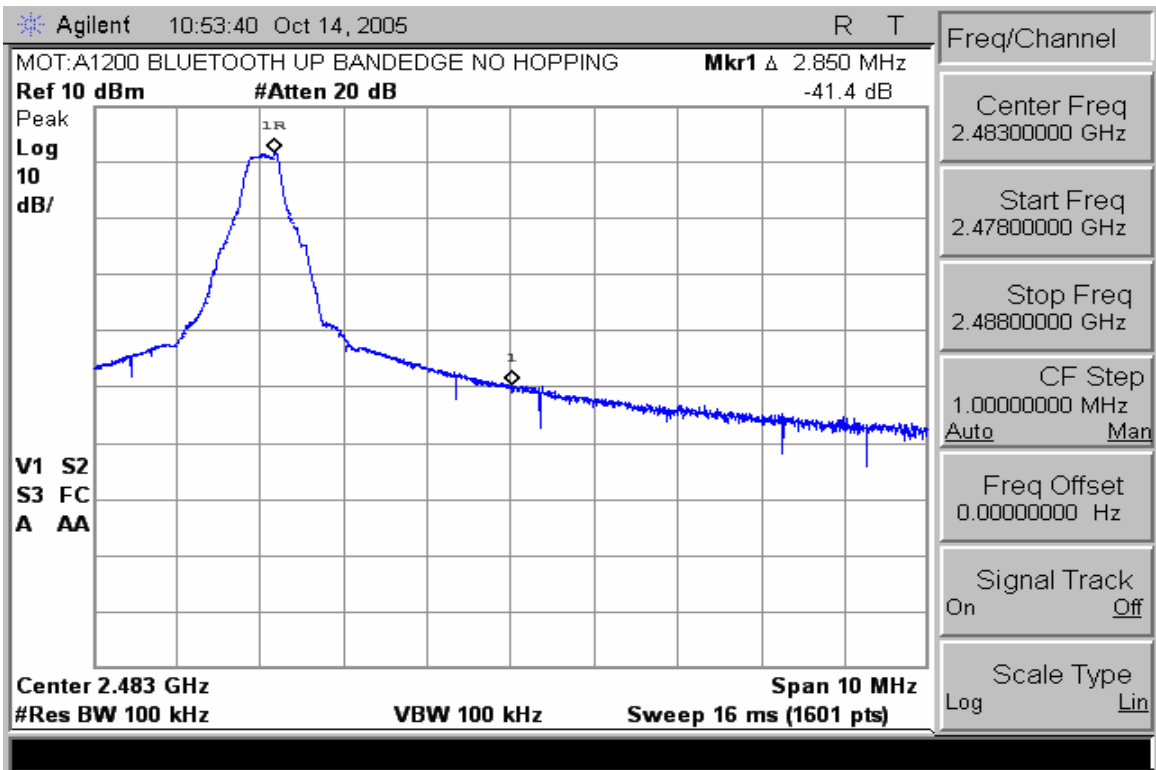
See Attached:



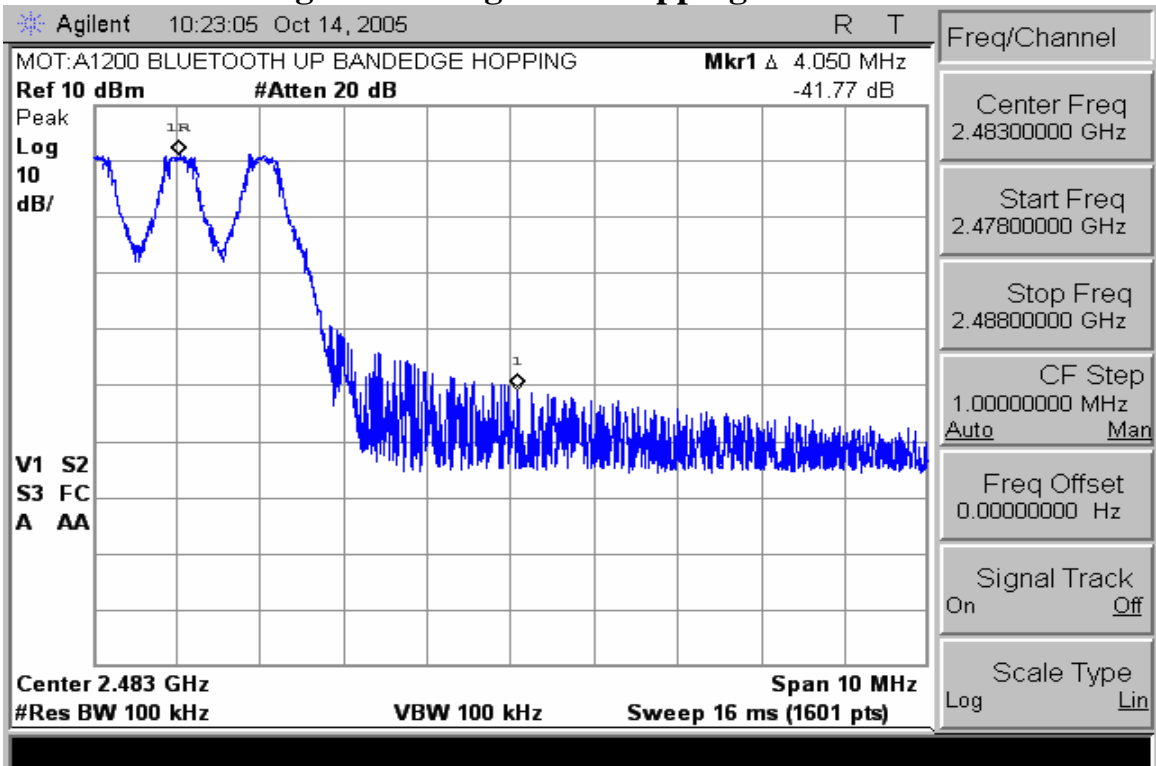
Low Band Edge with Hopping Disabled



Low Band Edge with Hopping Enabled



High Band Edge with Hopping Disabled



High Band Edge with Hopping Enabled

SPURIOUS RF CONDUCTED EMISSIONS

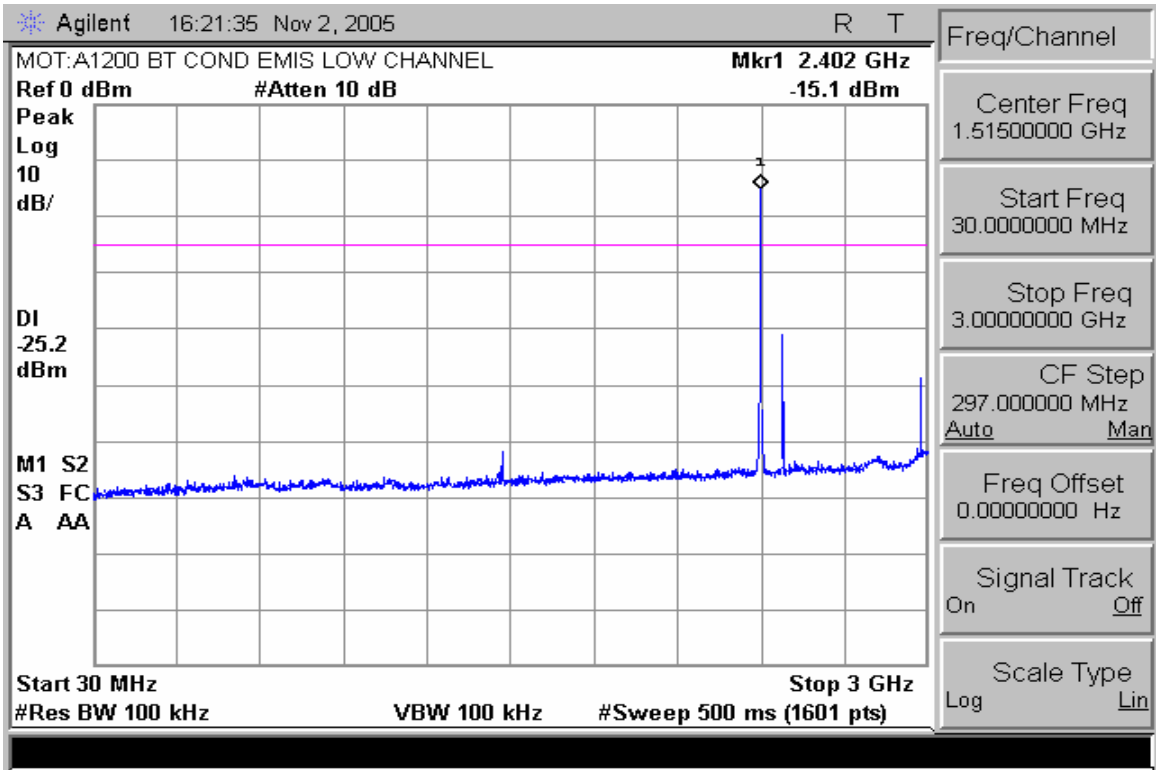
CFR 47 Part 15.247

Measurement Procedure

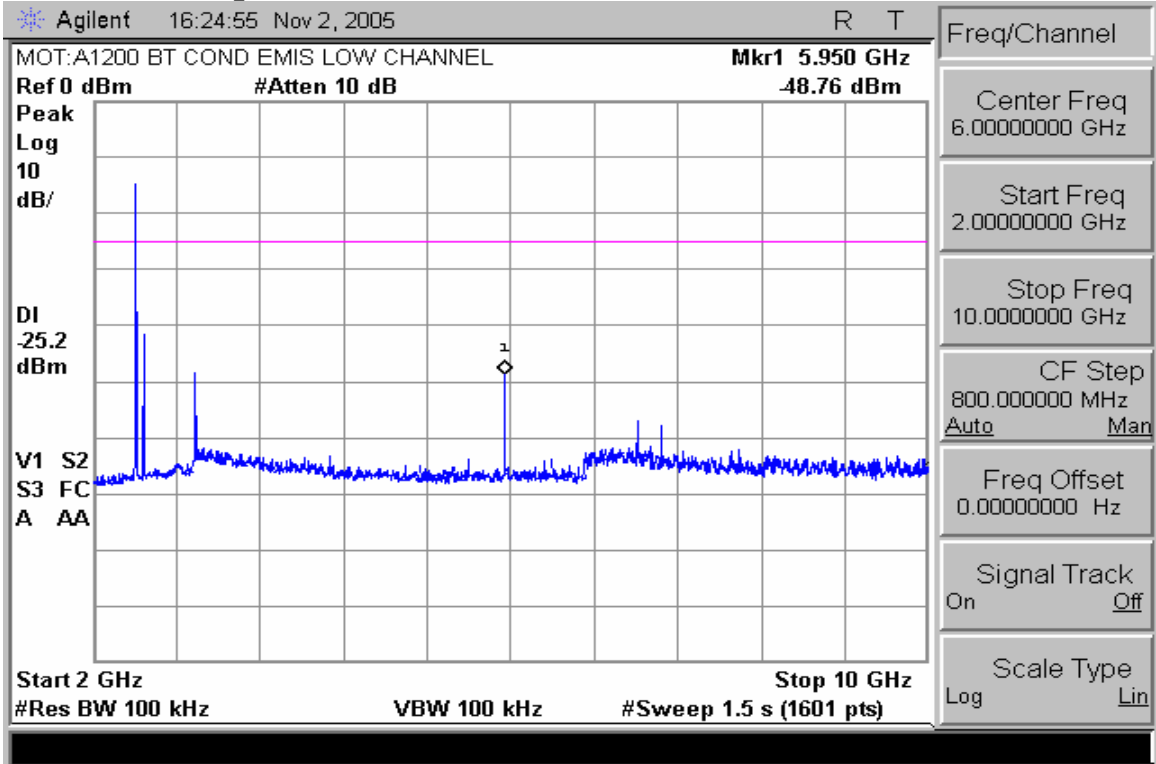
The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

Measurement Results

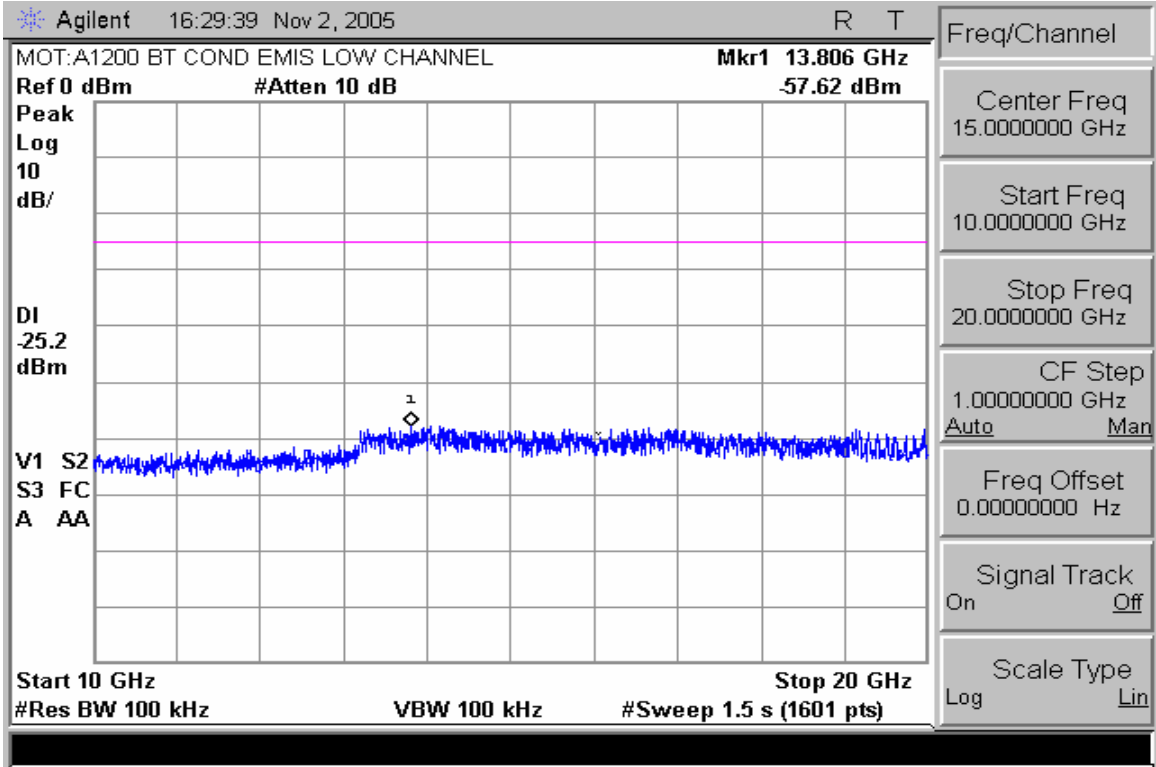
See attached:



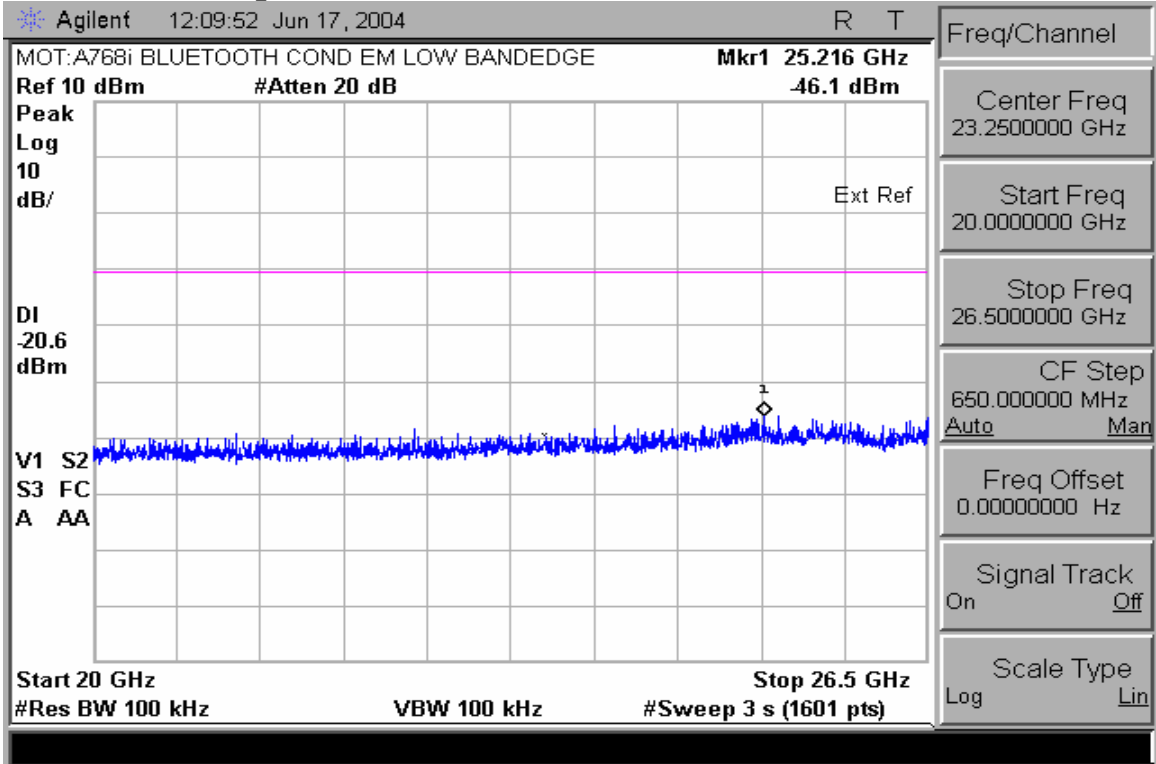
Conducted Spurious Emissions 30-3000MHz (Low Channel Enabled)



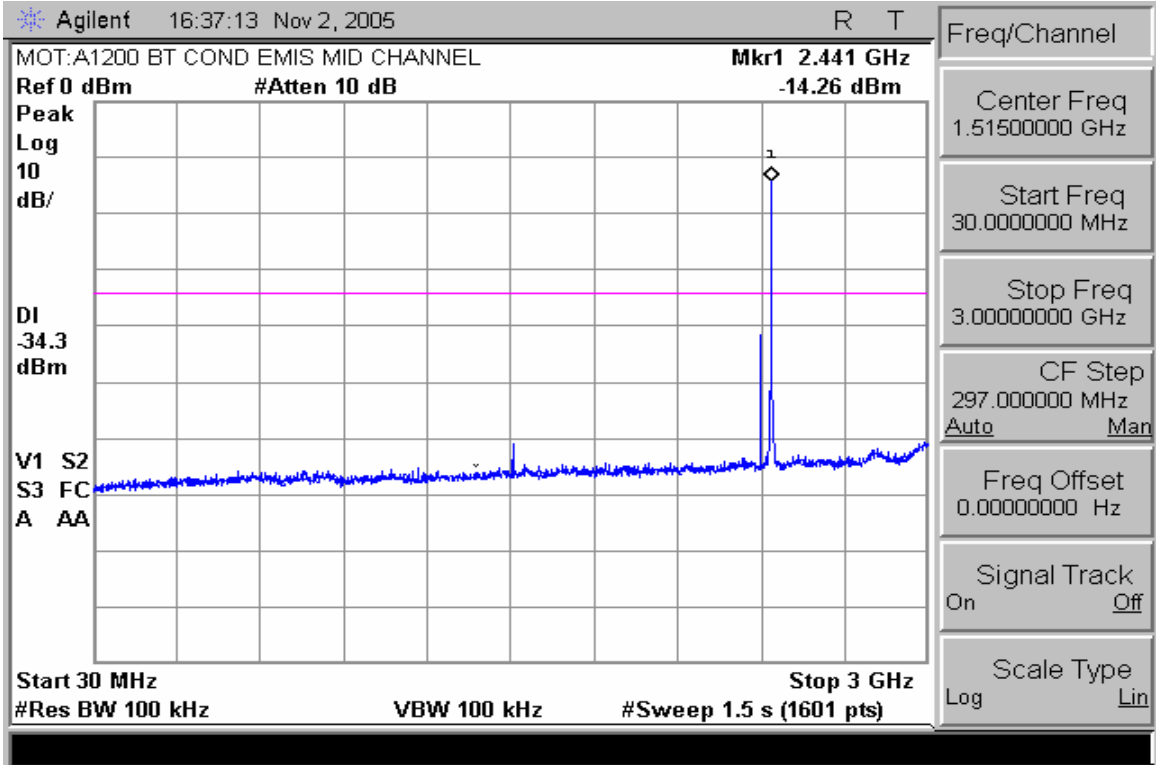
Conducted Spurious Emissions 2-10GHz (Low Channel Enabled)



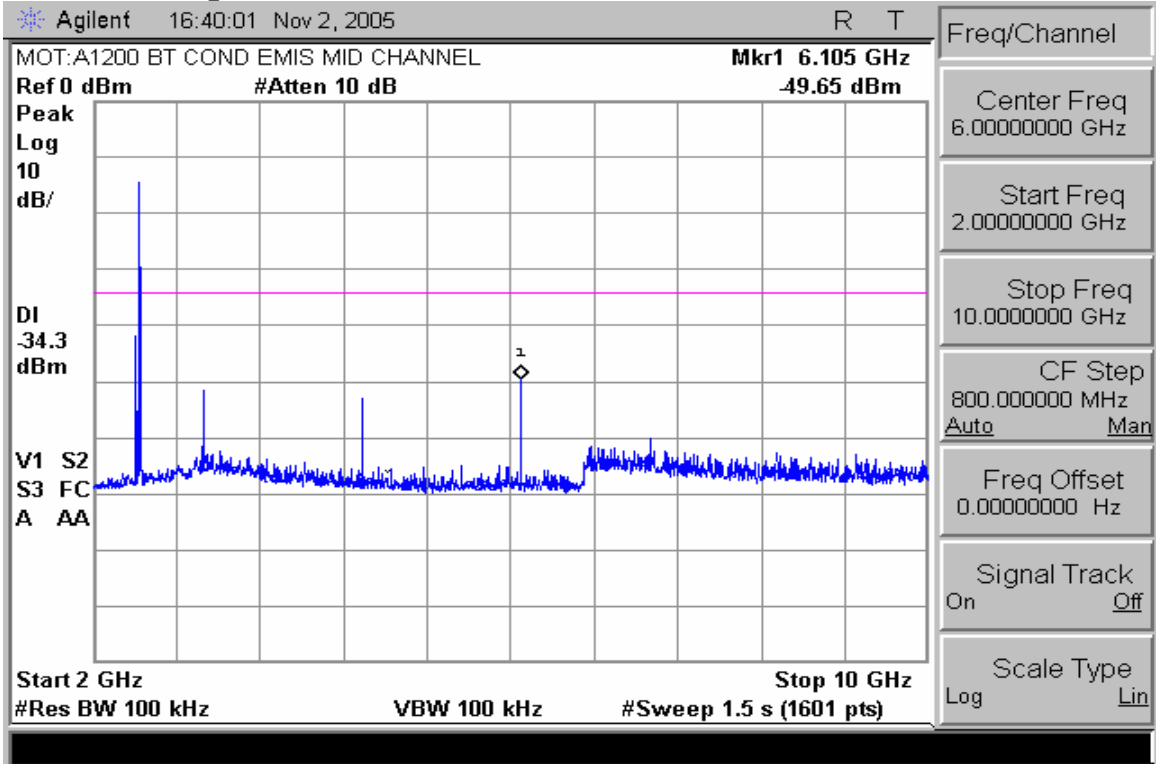
Conducted Spurious Emissions 10-20GHz (Low Channel Enabled)



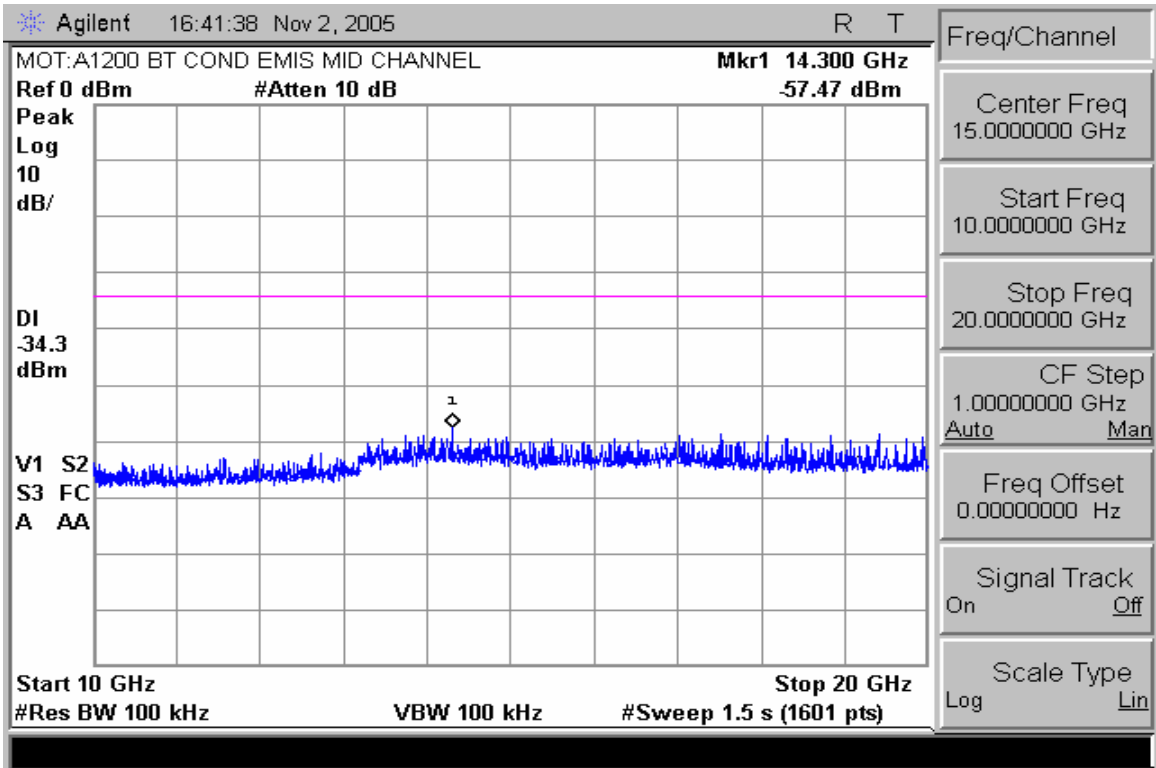
Conducted Spurious Emissions 20-26.5GHz (Low Channel Enabled)



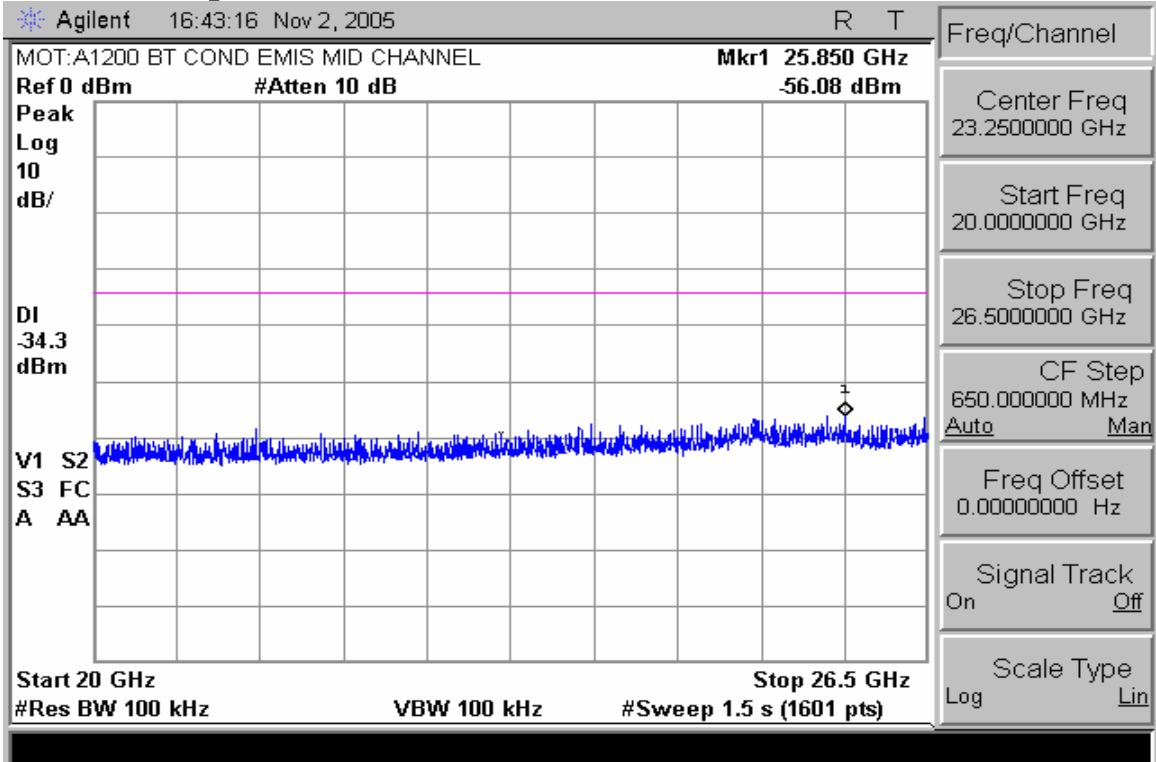
Conducted Spurious Emissions 30-3000MHz (Mid Channel Enabled)



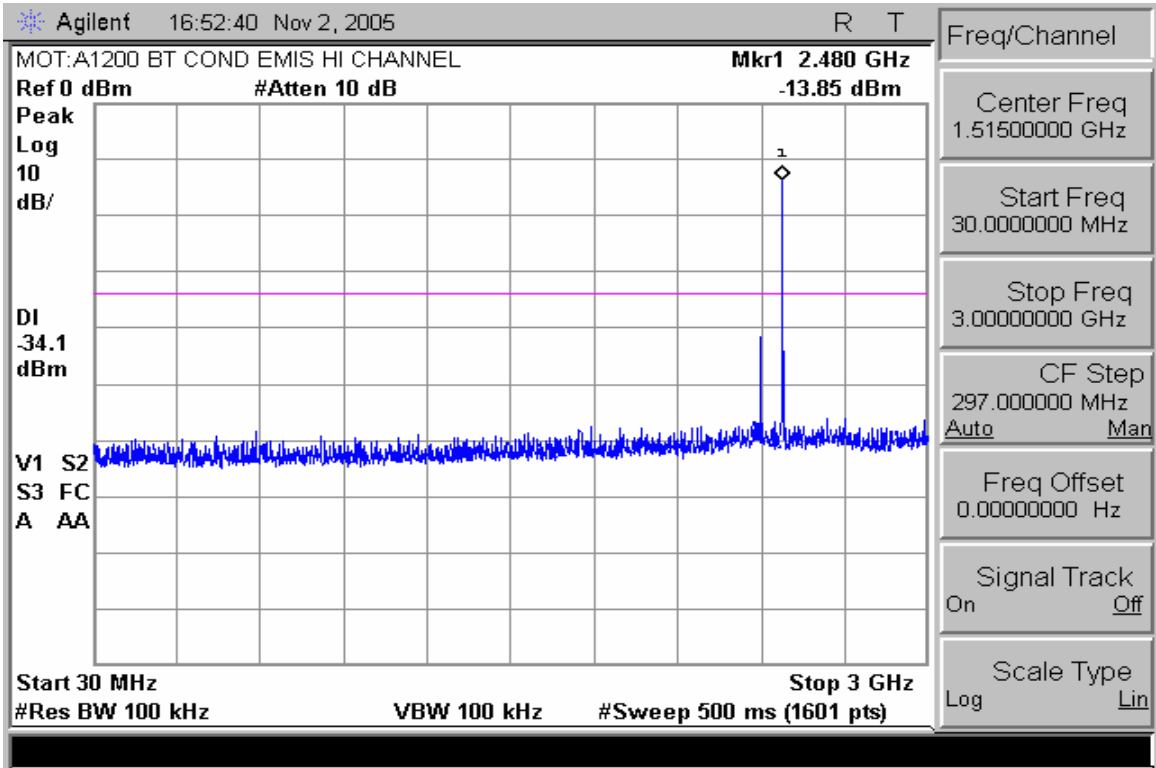
Conducted Spurious Emissions 2-10GHz (Mid Channel Enabled)



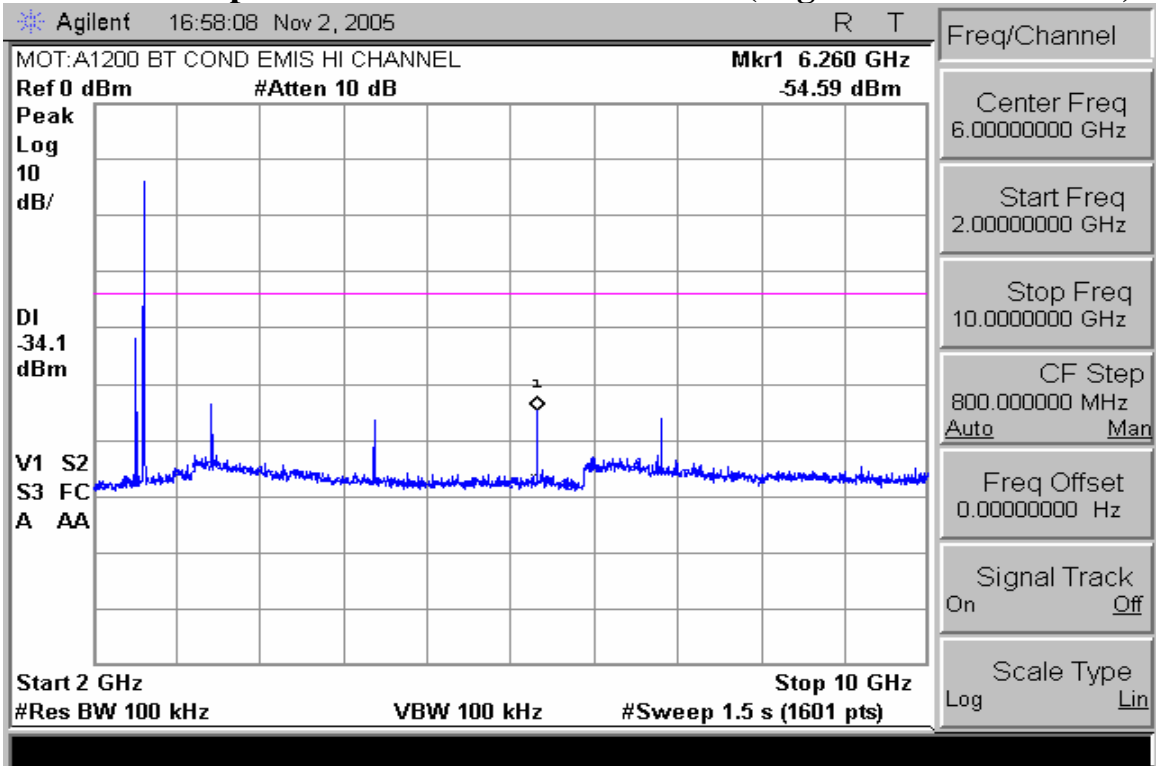
Conducted Spurious Emissions 10-20GHz (Mid Channel Enabled)



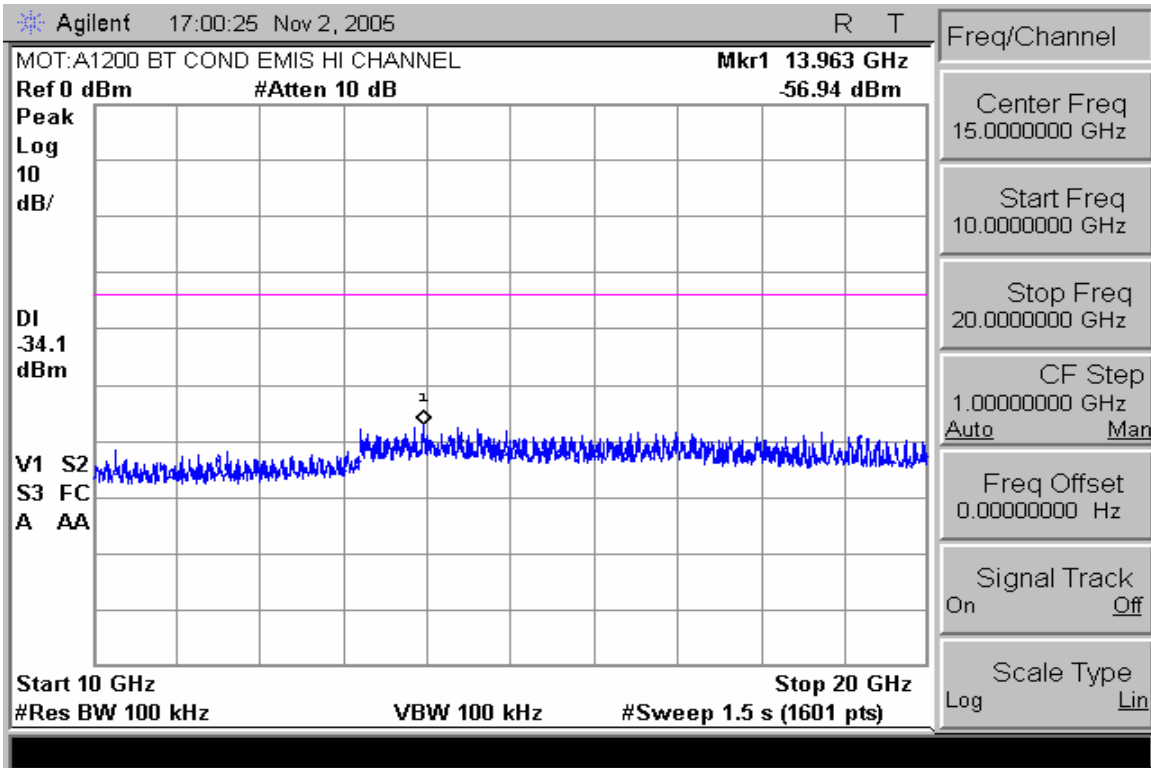
Conducted Spurious Emissions 20-26.5GHz (Mid Chan Enabled)



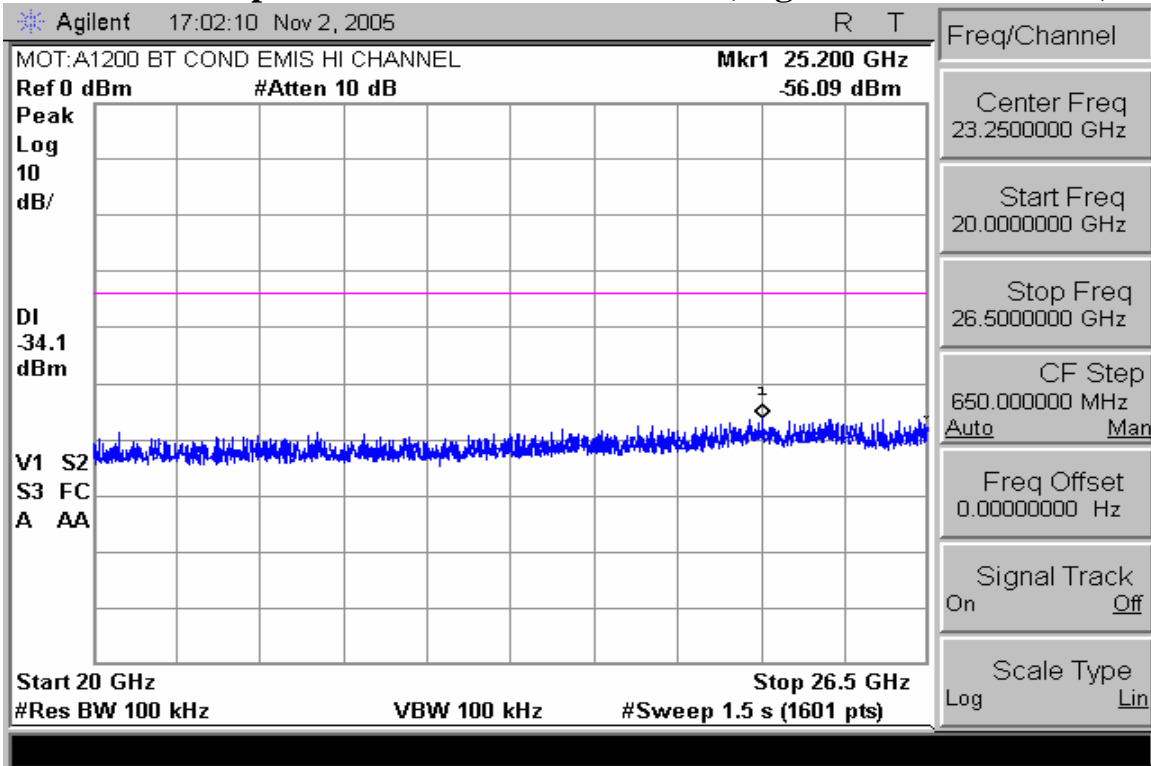
Conducted Spurious Emissions 30-3000MHz (High Channel Enabled)



Conducted Spurious Emissions 2-10GHz (High Channel Enabled)



Conducted Spurious Emissions 10-20GHz (High Channel Enabled)



Conducted Spurious Emissions 20-26.5GHz (High Chan Enabled)

AC LINE CONDUCTED

CFR 47 Part 15.207

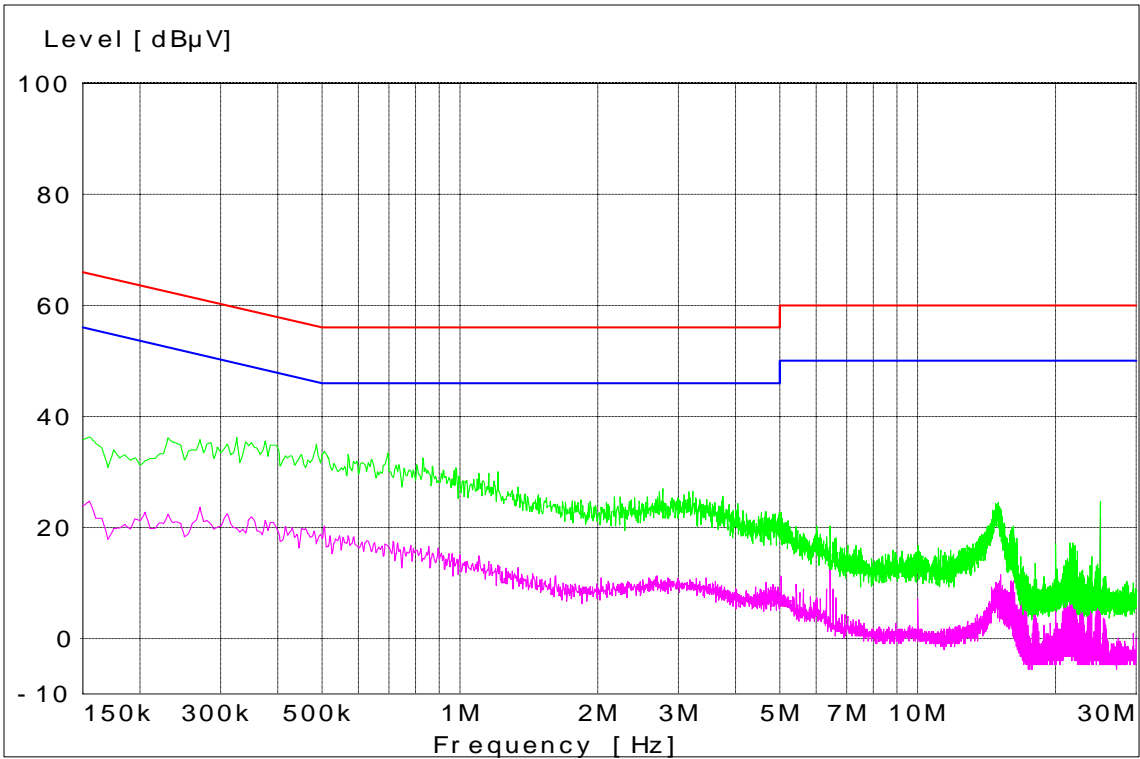
Measurement Procedure

Measured levels of AC powerline conducted emission shall be the radio-noise voltage from the line probe or across the 50 Ω LISN port, where permitted, terminated into a 50 Ω noise meter, or where permitted or required, the radio-noise current on the powerline sensed by a current probe.

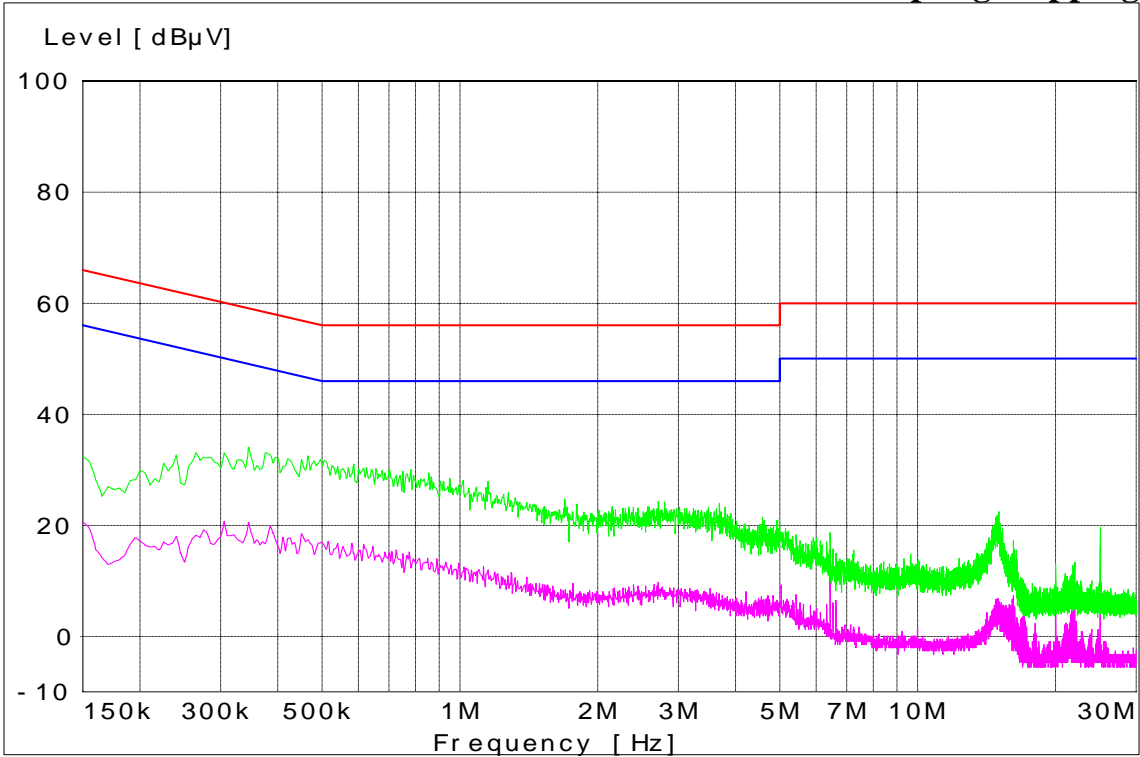
All radio-noise voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord or calibrated extension cord by the use of mating plugs and receptacles on the EUT and LISN. Equipment shall be tested with power cords that are normally supplied using an LISN, the 50 Ω measuring port is terminated by a 50 Ω radio-noise meter or a 50 Ω resistive load. All other ports are terminated in 50 Ω .

Measurement Results

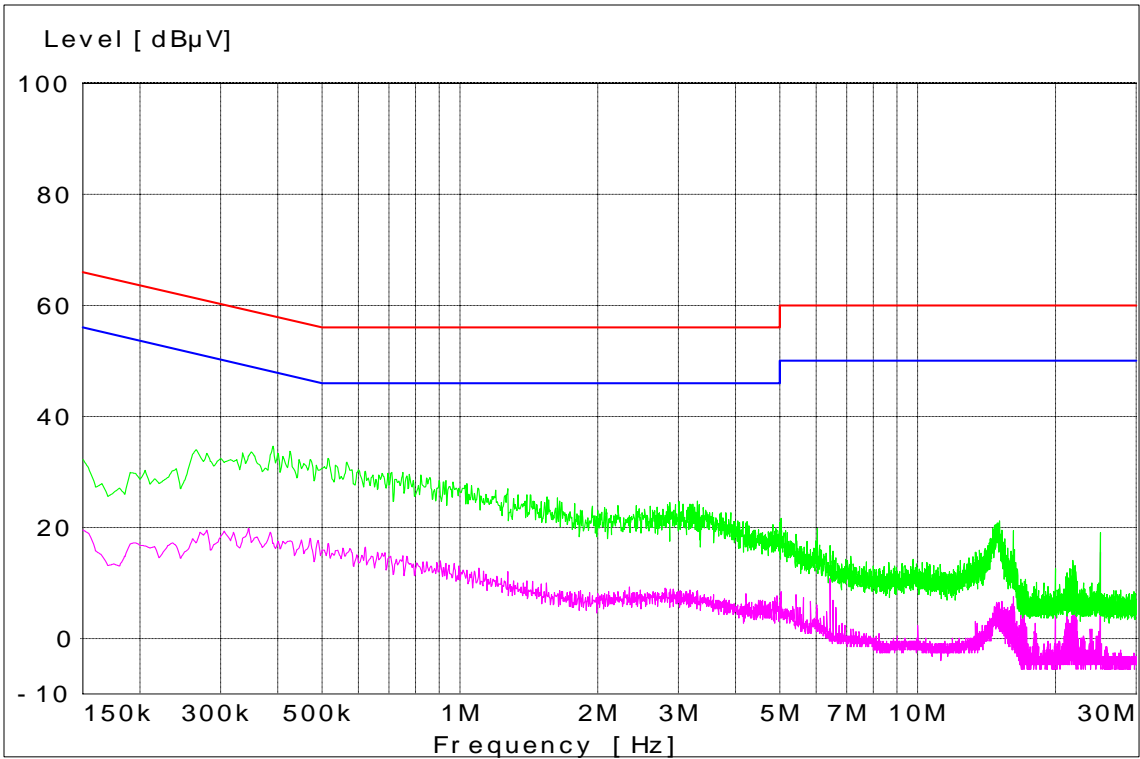
See attached:



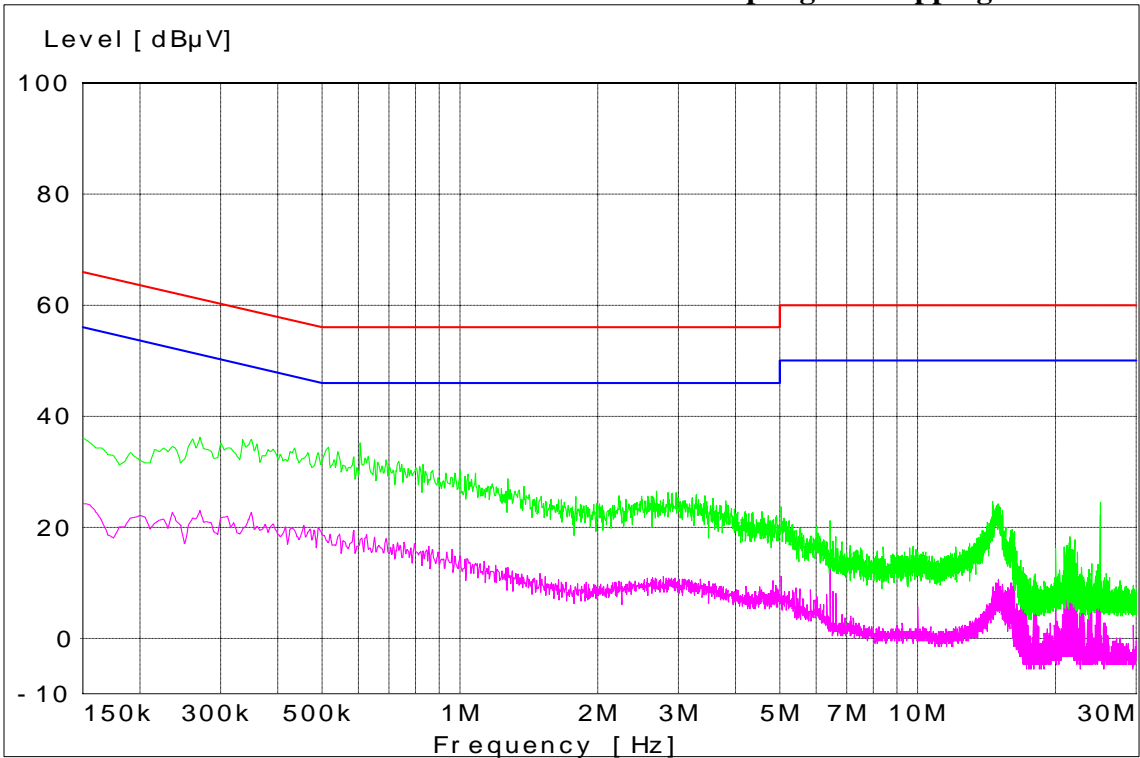
Bluetooth Channel 0 2402MHz - Tx Mode - Neutral Coupling Hopping



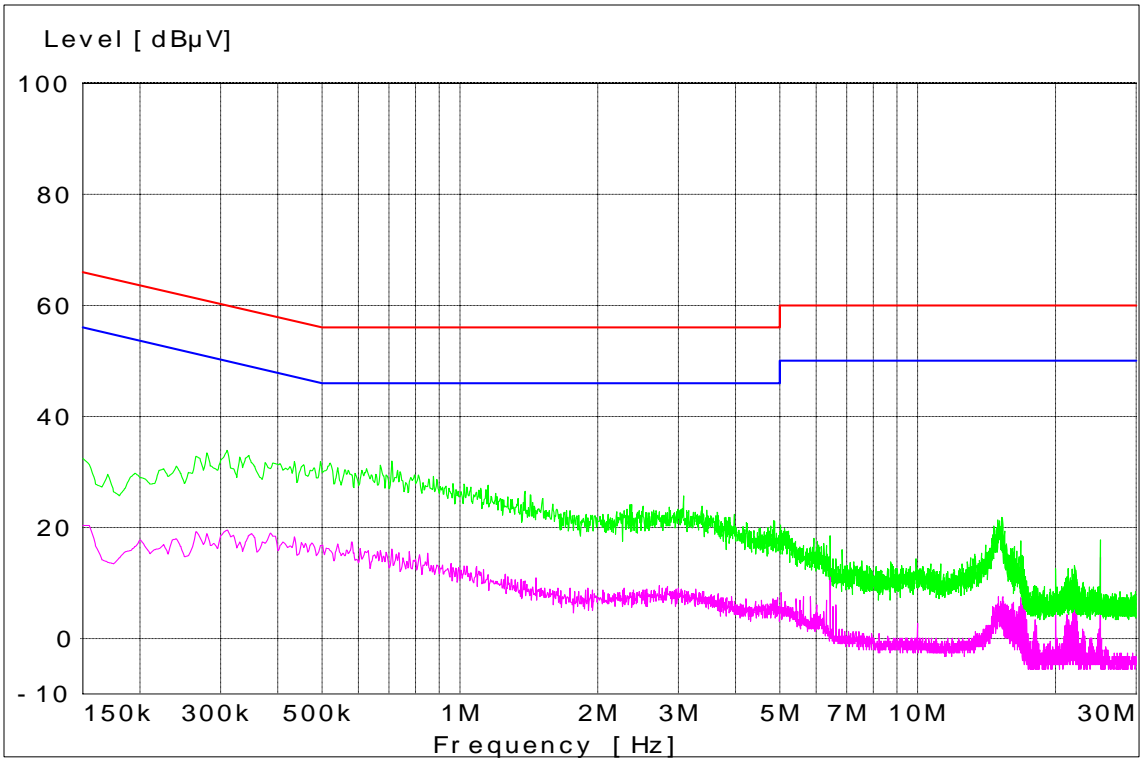
Bluetooth Channel 0 2402MHz - Tx Mode - Line Coupling Nonhopping



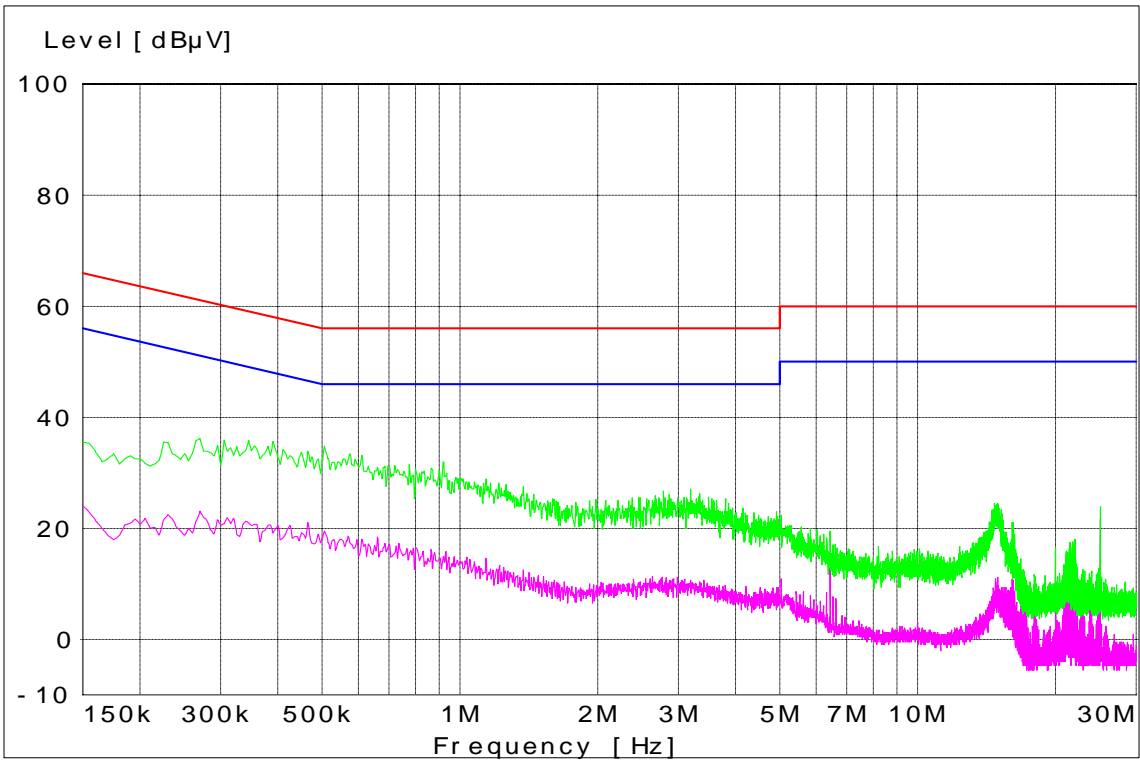
Bluetooth Channel 39 2441MHz - Tx Mode - Line Coupling Nonhopping



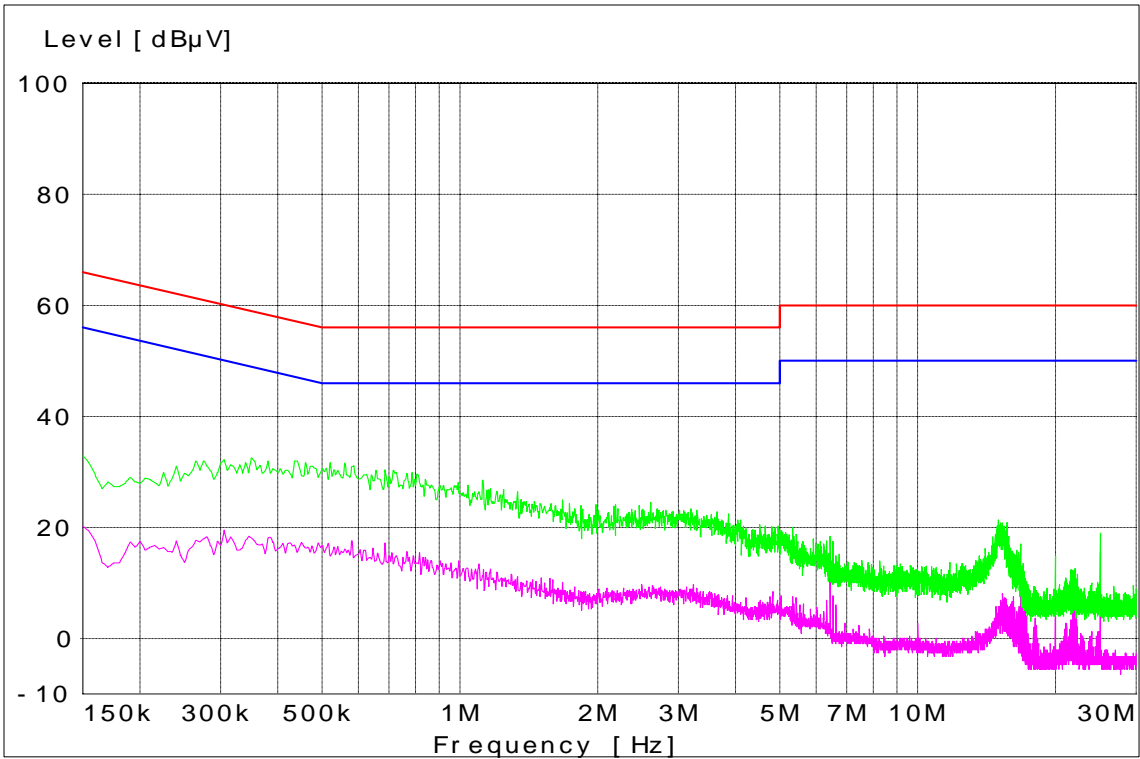
Bluetooth Channel 39 2441MHz - Tx Mode - Neutral Coupling Hopping



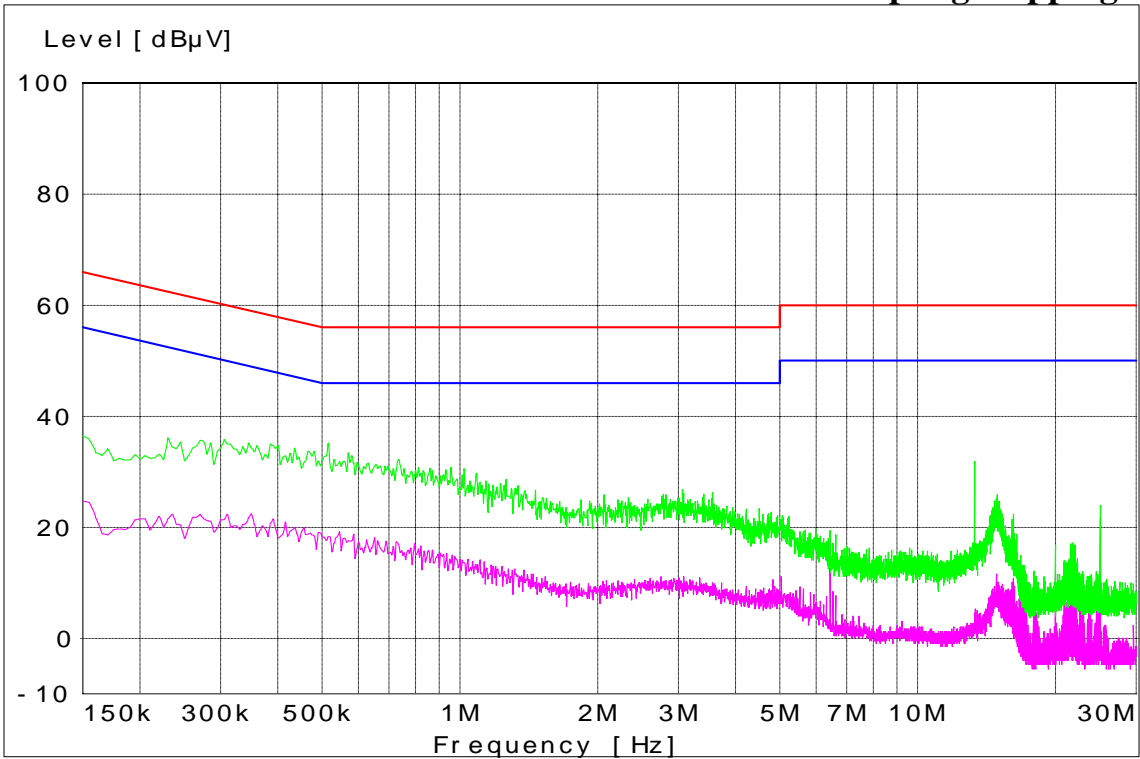
Bluetooth Channel 78 2480MHz - Tx Mode - Line Coupling Hopping



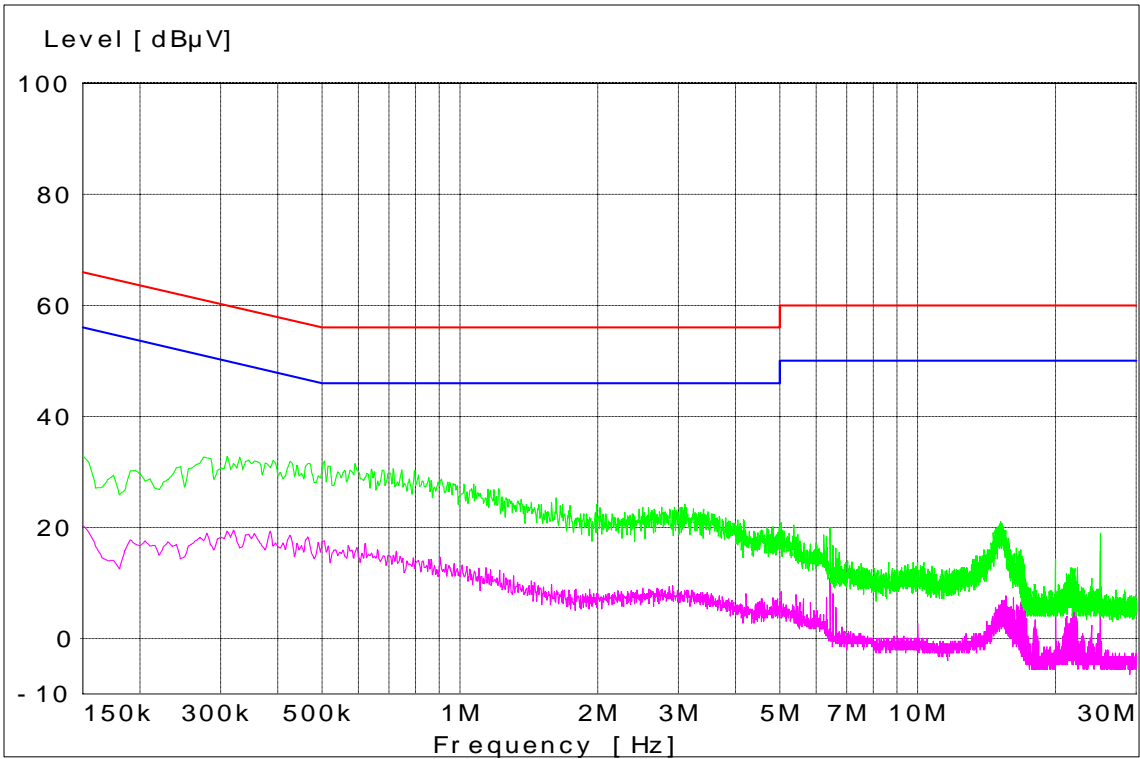
Bluetooth Channel 78 2480MHz - Tx Mode - Neutral Coupling Hopping



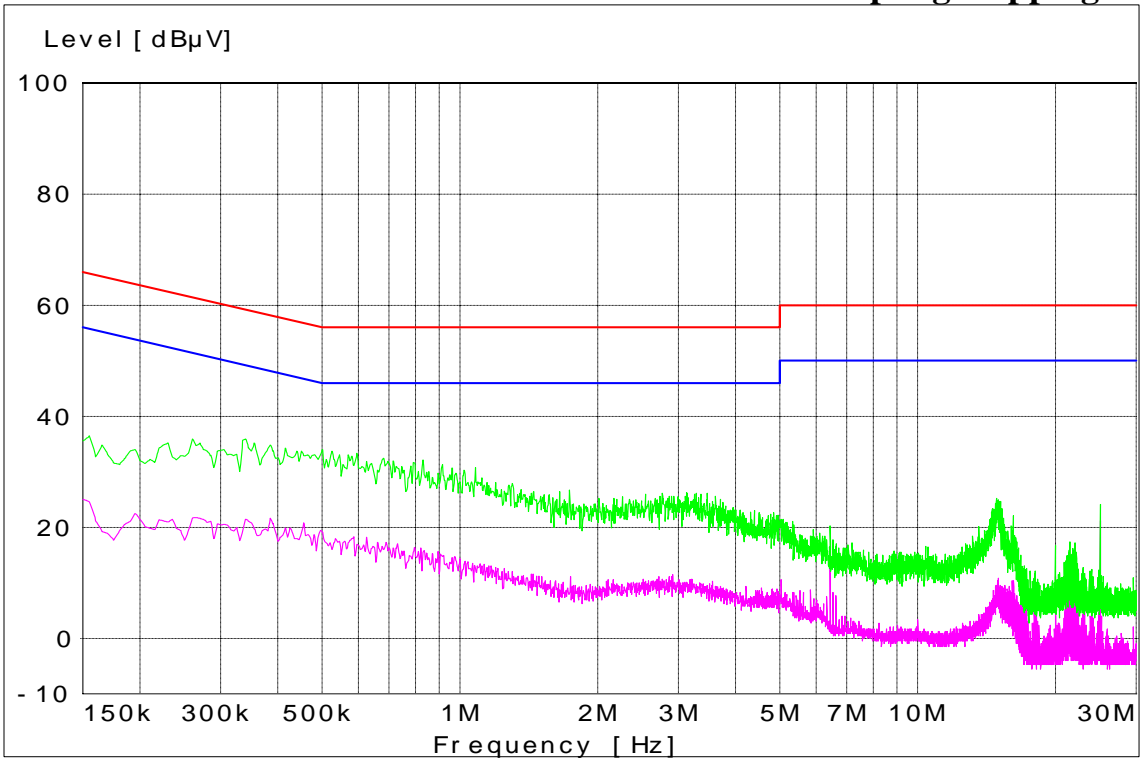
Bluetooth Channel 0 2402MHz - Tx Mode - Line Coupling Hopping



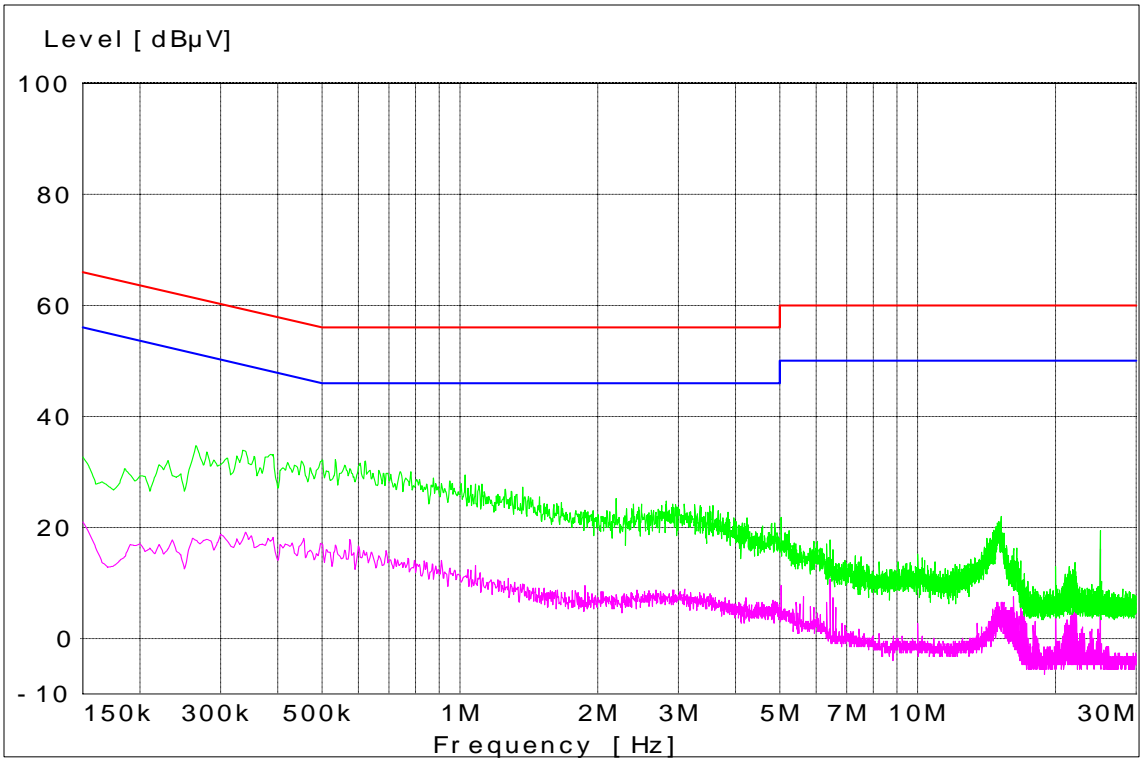
Bluetooth Channel 0 2402MHz - Tx Mode - Neutral Coupling Nonhopping



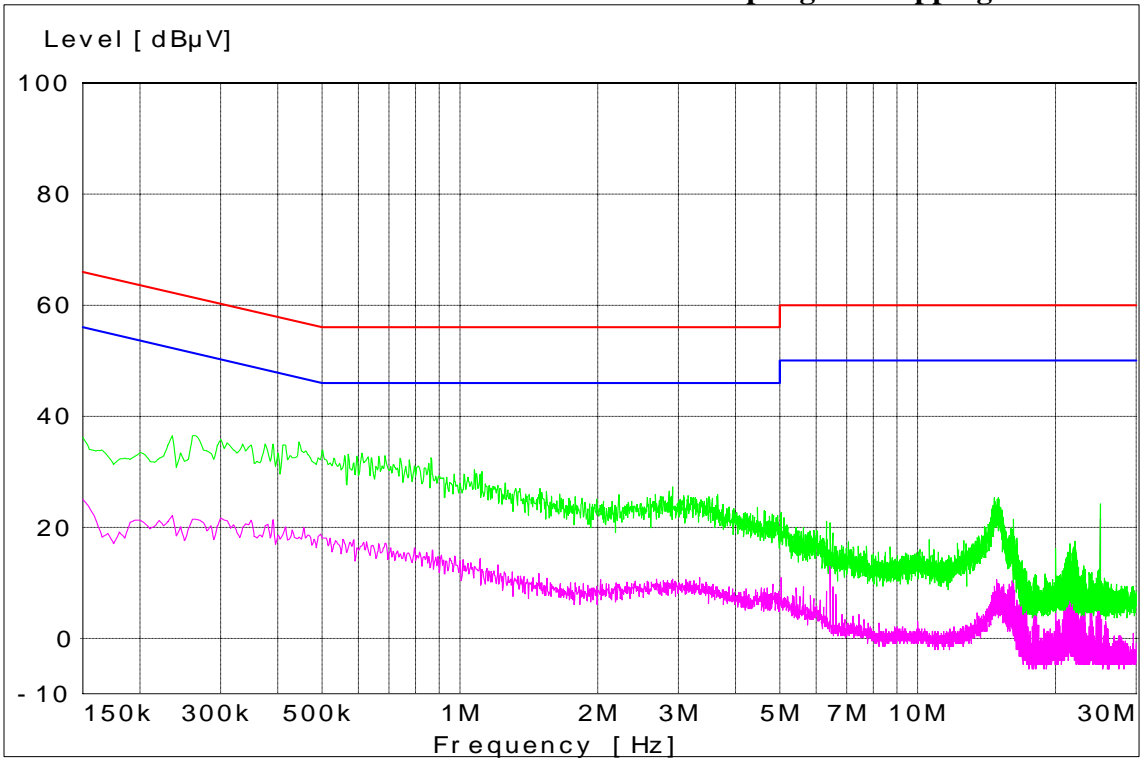
Bluetooth Channel 39 2441MHz - Tx Mode - Line Coupling Hopping



Bluetooth Channel 39 2441MHz - Tx Mode - Neutral Coupling Nonhopping



Bluetooth Channel 78 2480MHz - Tx Mode - Line Coupling Nonhopping



Bluetooth Channel 78 2480MHz - Tx Mode - Neutral Coupling Nonhopping

End of Test Report