



MOTOROLA

MOBILE DEVICES BUSINESS

**PRODUCT SAFETY AND COMPLIANCE
EMC LABORATORY**

EMC TEST REPORT - Addendum

Test Report Number – 16964-1BT

Report Date – September-29-2005

Revision 2

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 cursive script that reads "Mark Sidlow".

Signature:

Name: Mark Sidlow

Title: Senior Electrical Engineer

Date : 2005-29-09

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Test Report Details

Tests Performed By: Motorola Personal Communications Sector
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.
Personal Communications Sector
600 North US Hwy 45
Libertyville, IL 60048

Product Type: Cellular Phone

Signaling Capability: GSM 1900, Bluetooth

Model Number: E1070

Serial Numbers: 35685300025447, 35685300025470
& 35685300025462

Testing Complete Date: September 27, 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 MHz
2	Number of Hopping	79
3	Time of Occupancy (Dwell Time)	2.92 ms
4	20 dB Bandwidth	866 kHz
5	Spurious RF Conducted Emissions	See plots
6	Field Strength of Spurious Emissions	See plots
7	Max Power	0.528 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	8593EM	3536A00118	10/2/2005
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	10/14/2005
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 Antennas 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 E1070 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 to operate with other Bluetooth devices as defined by industrial standard. In this application, the device is battery-operated.

The maximum Bluetooth antenna gain is -0.2 dB.

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 E1070 had its hopping function enabled. The following spectrum analyzer settings were used:

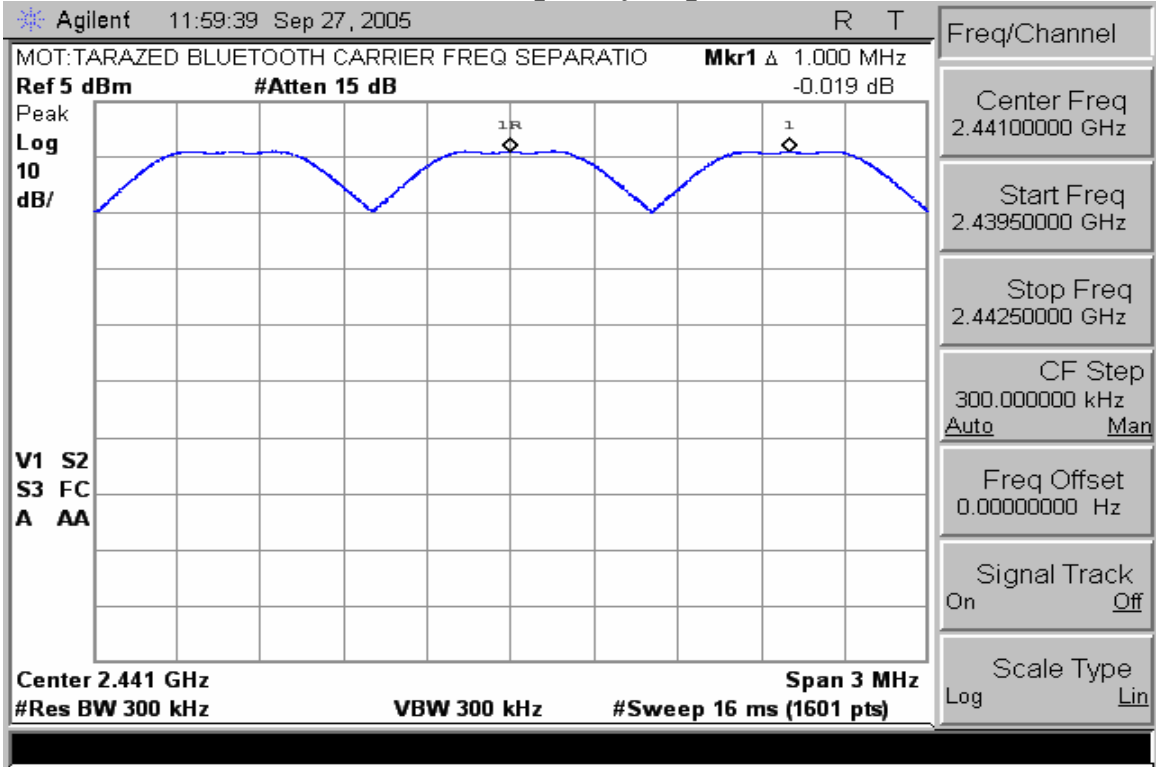
1. Span = wide enough to capture the peaks of two adjacent channels
2. Resolution (or IF) Bandwidth (RBW) \geq 1% of the span
3. Video (or Average) Bandwidth (VBW) \geq RBW
4. Sweep = auto
5. Detector function = peak
6. Trace = max hold

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.

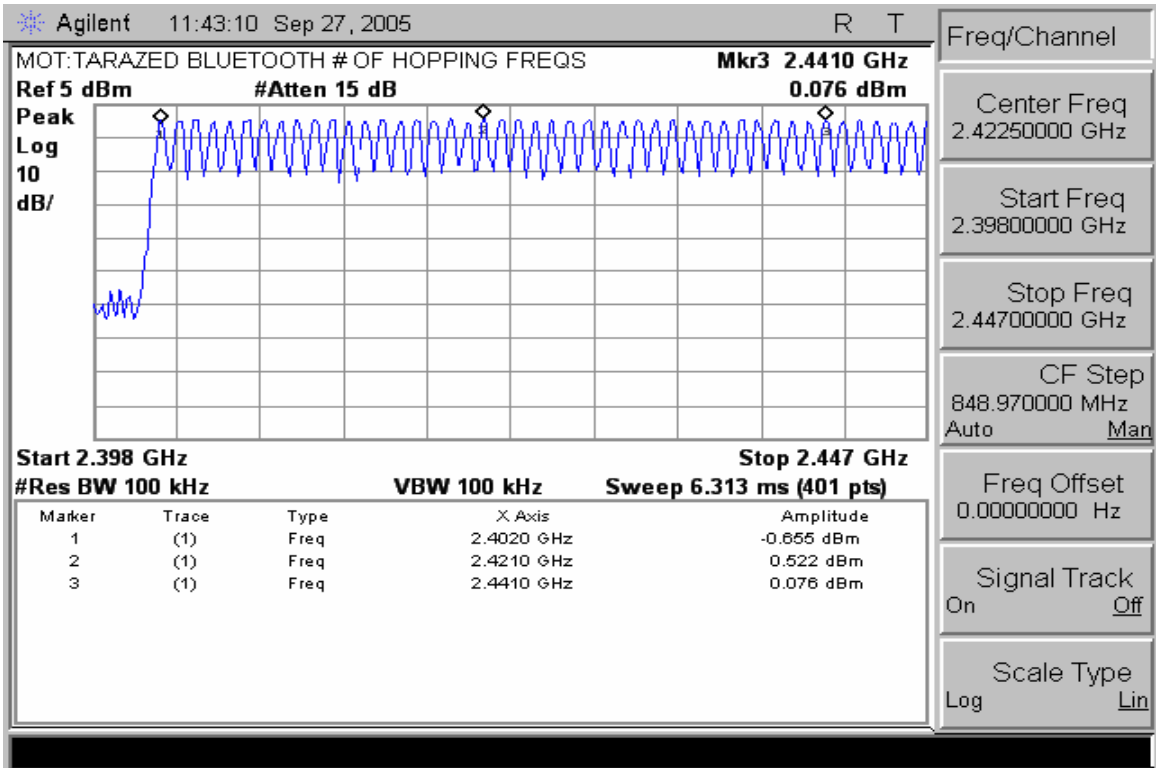
The Bluetooth frequency hopping function of the EUT was enabled. The spectrum analyzer used the following settings:

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

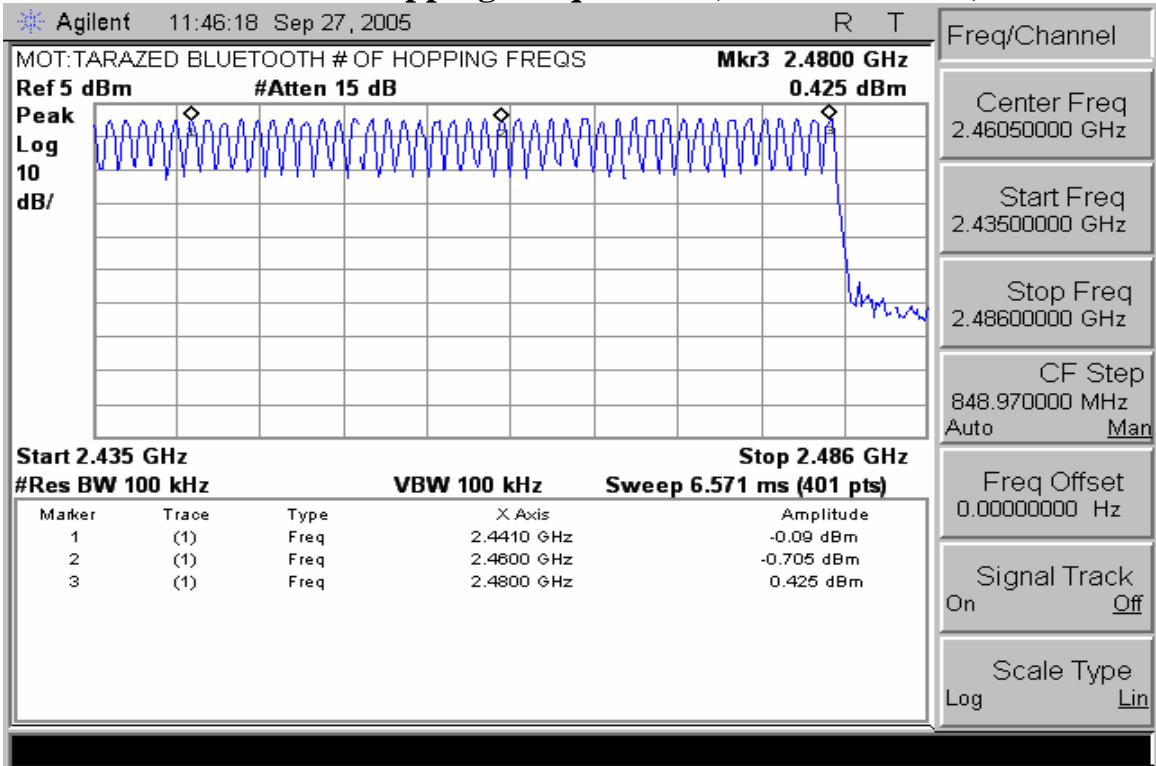
The trace was allowed to stabilize.

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.

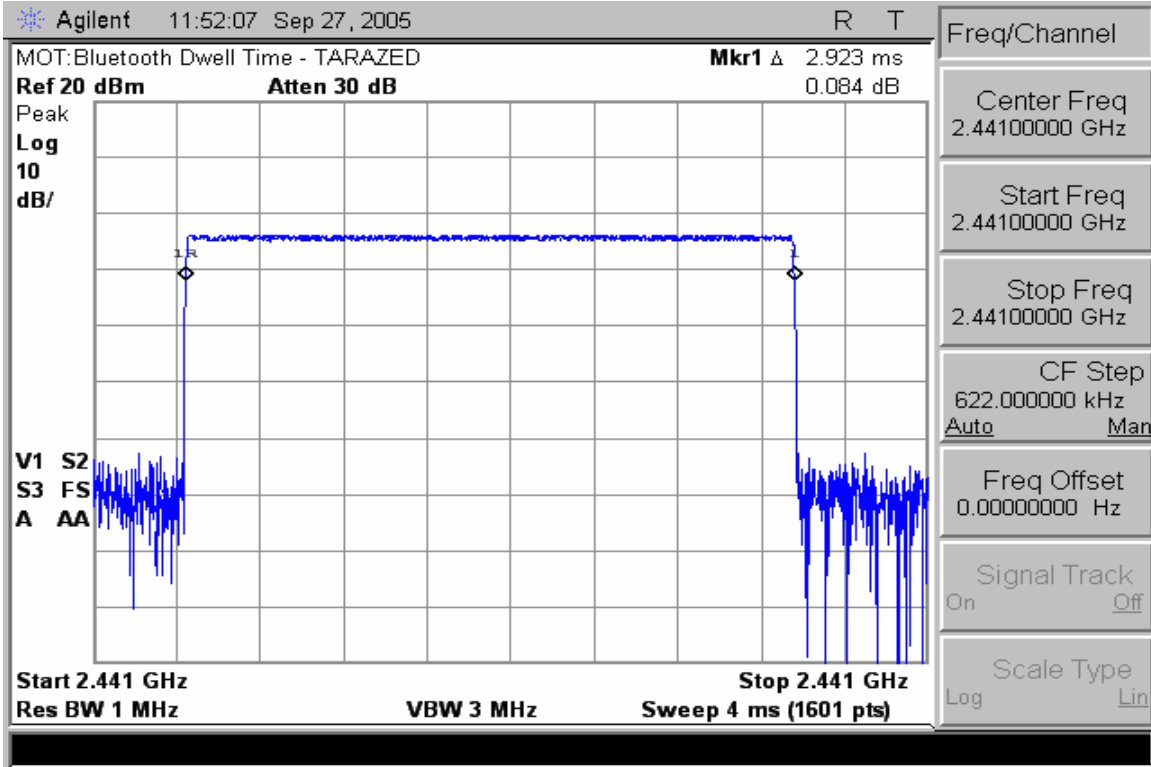
The Bluetooth hopping function of the EUT was enabled. The following spectrum analyzer settings were used:

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.

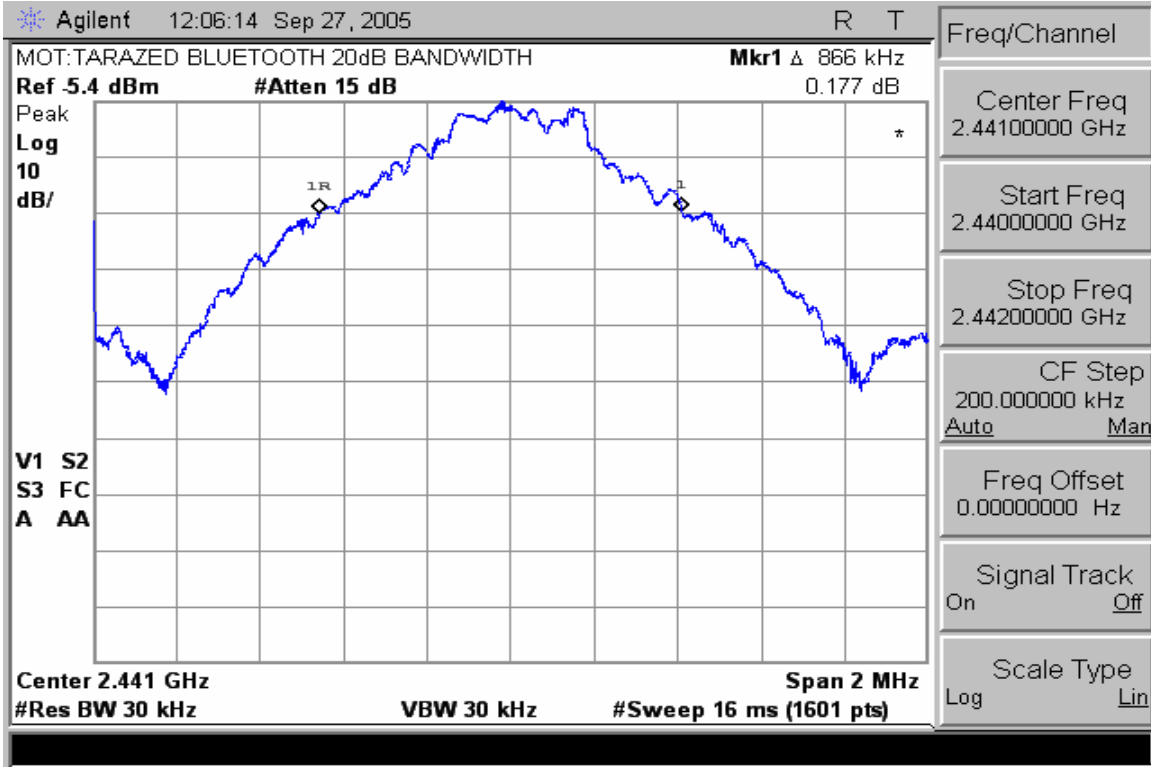
The Bluetooth frequency hopping function of the EUT was enabled. The spectrum analyzer used the following settings:

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

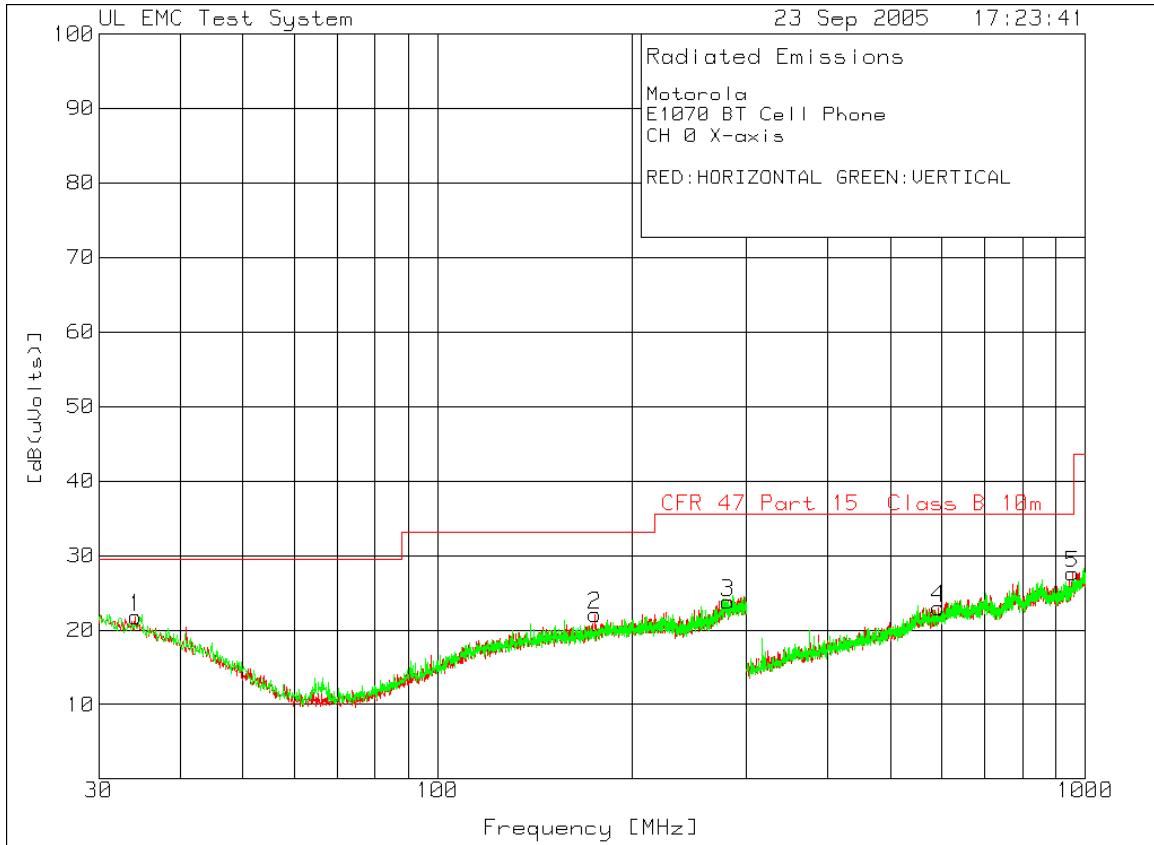
The Equipment-Under-Test is placed inside the semi-anechoic chamber on a wooden table at the turntable center. For each spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters and the turntable is rotated 360 degrees to obtain a maximum reading on the spectrum analyzer. This is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

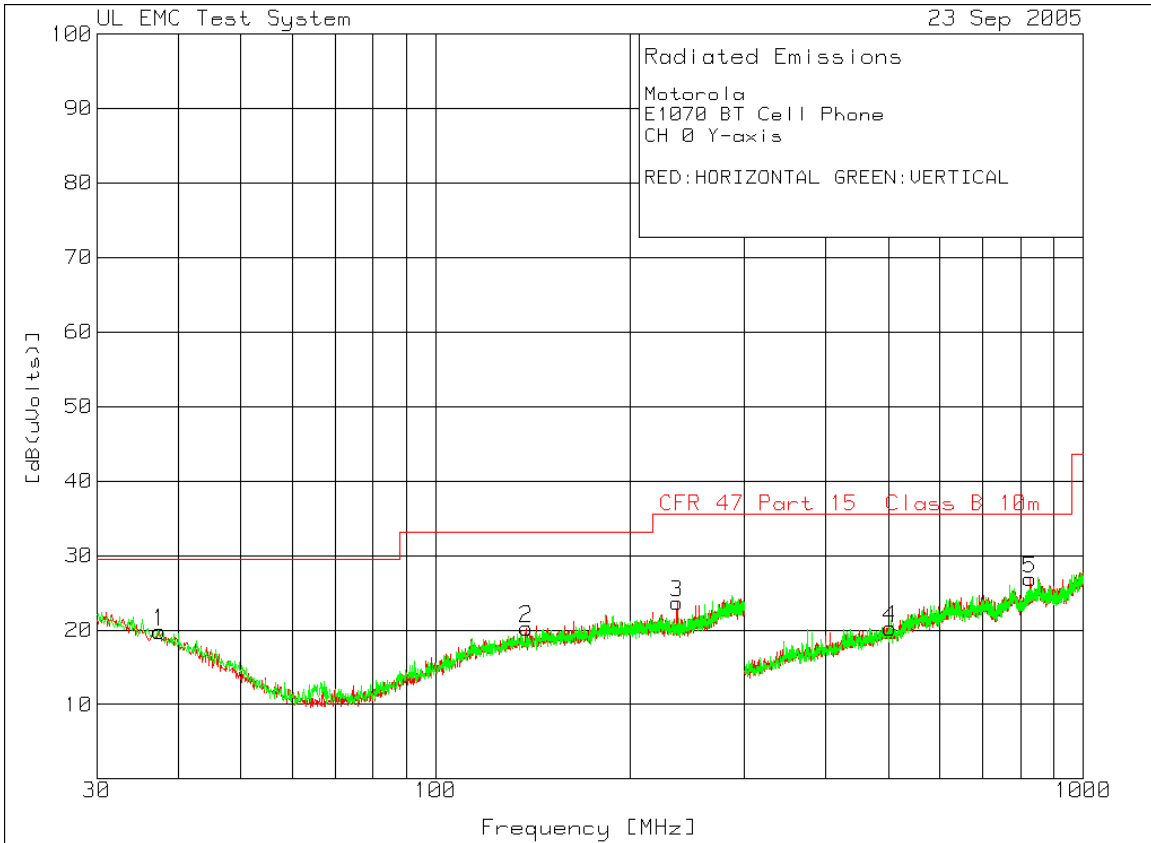


30-1000MHz Low Channel Dual Polarization X

Motorola
E1070 BT Cell Phone
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]	Azimuth [degs]	Height [cm]	Polarity
Range 1 30 - 300MHz											
1	34.1829	35.7	pk	-30.4	16.5	21.8	29.6	-7.8	176	100	Horz
2	175.1874	36.6	pk	-29.9	15.4	22.1	33.1	-11	278	200	Horz
3	280.4347	35.2	pk	-29.3	17.9	23.8	35.6	-11.8	108	100	Horz
Range 3 300 - 1000MHz											
4	593.8531	35.1	pk	-31.3	19.2	23	35.6	-12.6	357	198	Horz
5	955.5722	35.4	pk	-31.2	23.4	27.6	35.6	-8	187	198	Horz

LIMIT 1: CFR 47 Part 15 Class B 10m

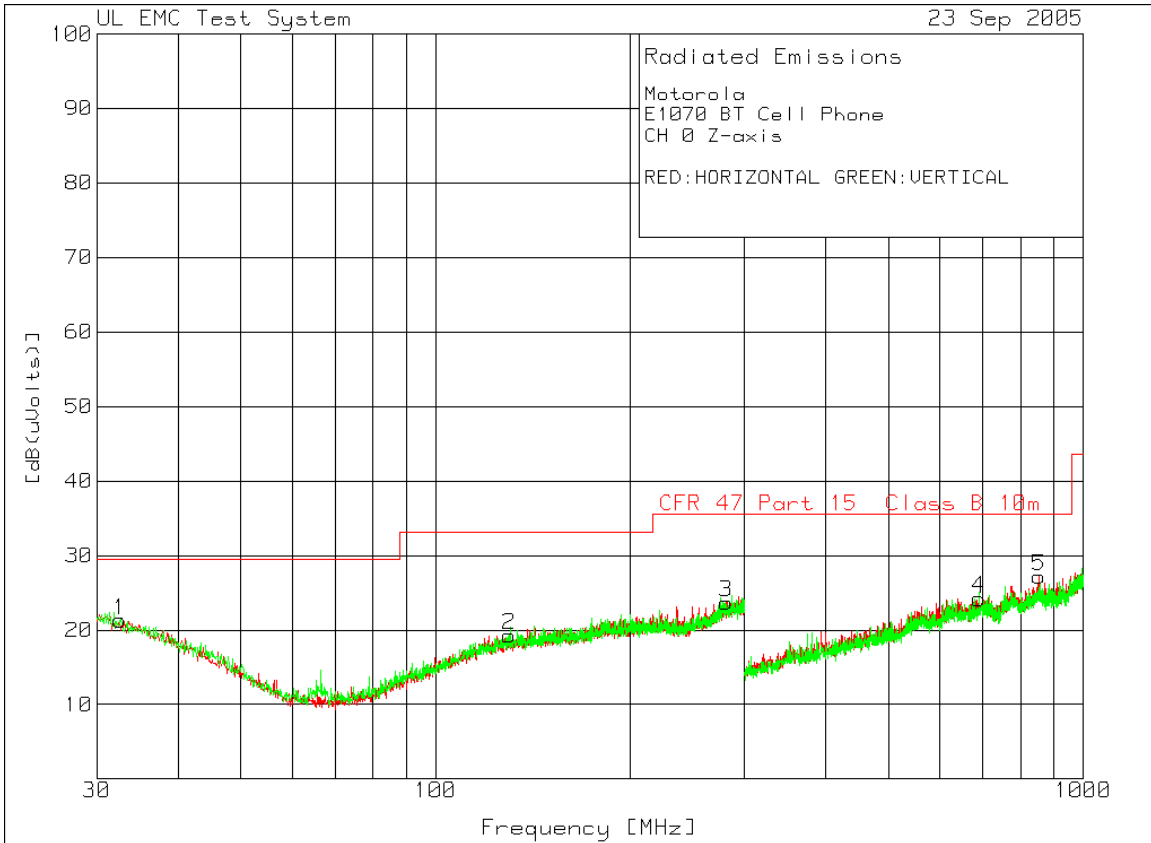


30-1000MHz Low Channel Dual Polarization Y

Motorola
E1070 BT Cell Phone
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	Azimuth [degs]	Height [cm]	Polarity
Range 1 30 - 300MHz												
1	37.4213	34.9	pk	-30.4	15.3	19.8	29.6	-9.8		358	200	Horz
2	138.2159	36.1	pk	-30.1	14.3	20.3	33.1	-12.8		290	200	Horz
3	235.907	37.9	pk	-29.7	15.5	23.7	35.6	-11.9		132	200	Horz
Range 3 300 - 1000MHz												
4	503.2484	34.6	pk	-31.7	17.4	20.3	35.6	-15.3		19	100	Horz
5	828.9356	36.3	pk	-31.6	22.2	26.9	35.6	-8.7		19	100	Horz

LIMIT 1: CFR 47 Part 15 Class B 10m

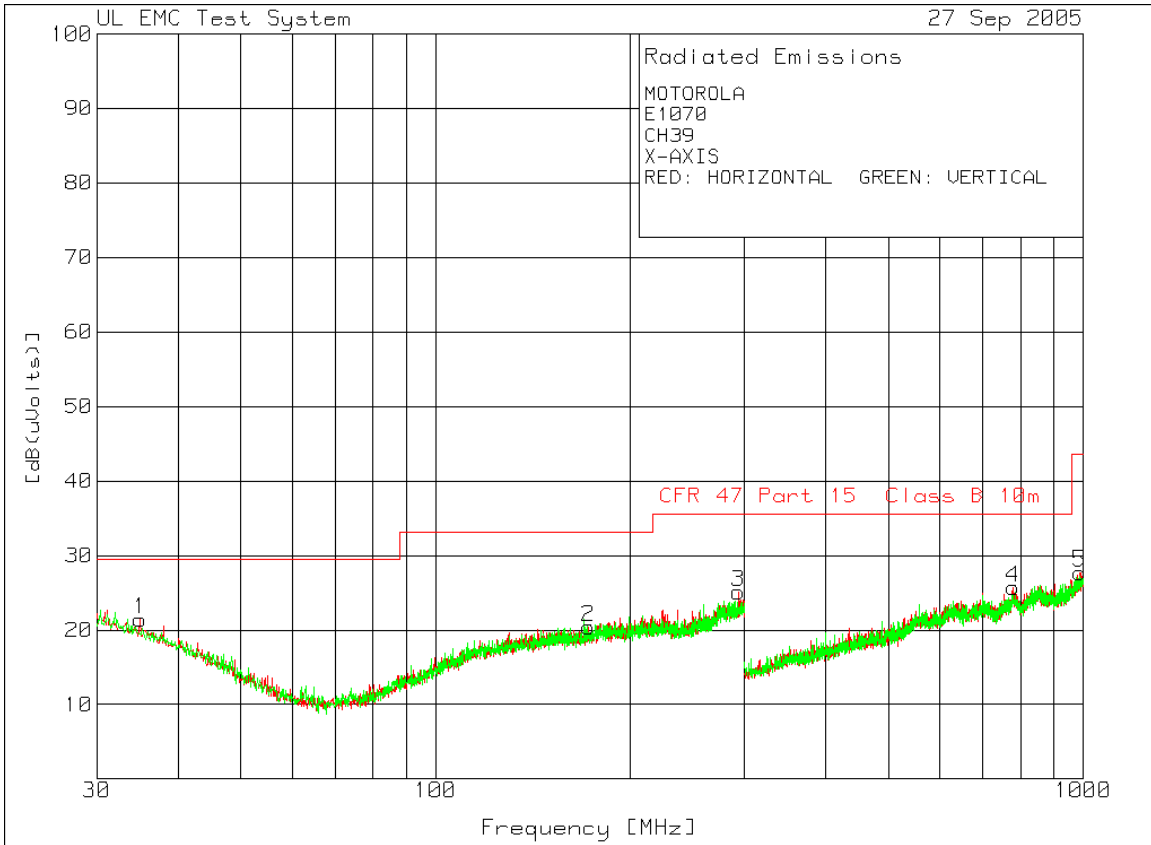


30-1000MHz Low Channel Dual Polarization Z

Motorola
E1070 BT Cell Phone
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]	Azimuth [degs]	Height [cm]	Polarity
Range 1 30 - 300MHz											
1	32.5637	34.7	pk	-30.4	17	21.3	29.6	-8.3	245	100	Horz
2	129.8501	35.5	pk	-30.1	13.9	19.3	33.1	-13.8	143	100	Horz
3	280.4347	35.1	pk	-29.3	17.9	23.7	35.6	-11.9	245	200	Horz
Range 3 300 - 1000MHz											
4	689.7052	34.7	pk	-30.7	20.2	24.2	35.6	-11.4	177	100	Horz
5	854.4728	35.7	pk	-31.5	23	27.2	35.6	-8.4	165	198	Horz

LIMIT 1: CFR 47 Part 15 Class B 10m

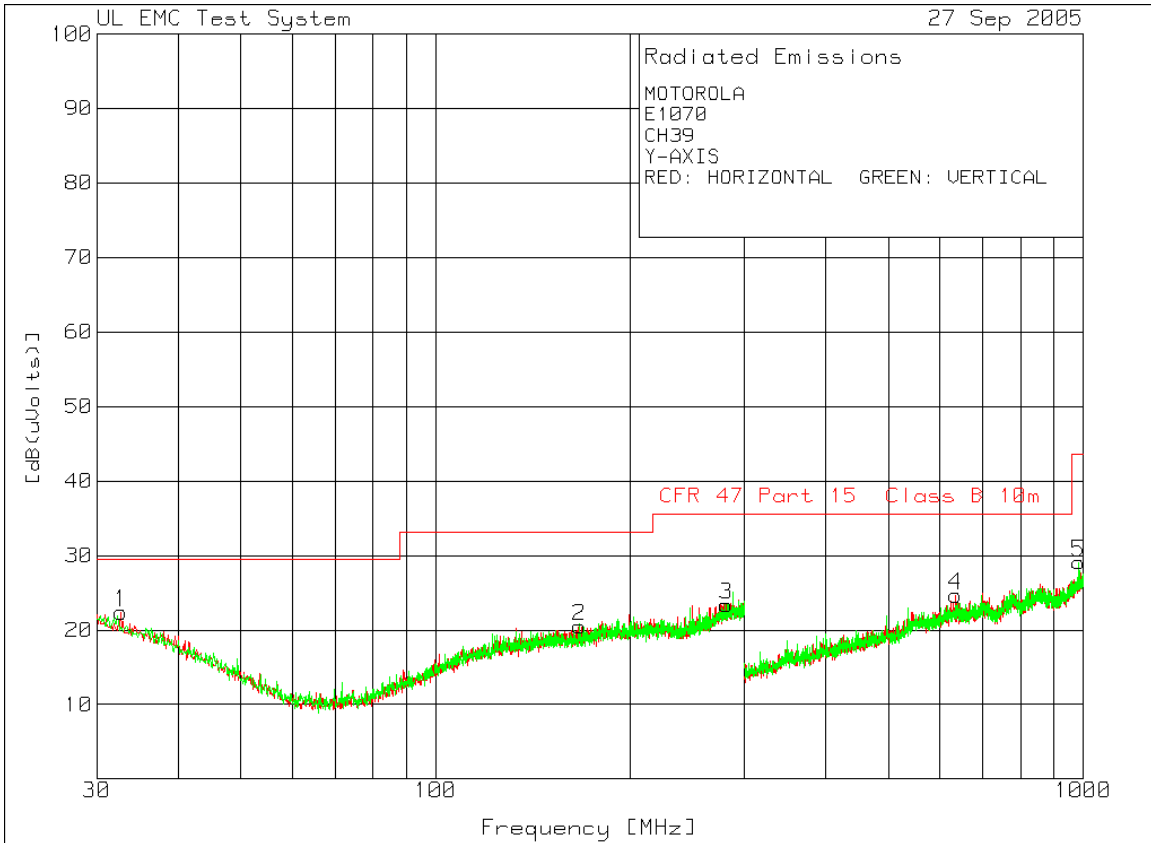


30-1000MHz Mid Channel Dual Polarization X

MOTOROLA
E1070
CH39
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	Azimuth [degs]	Height [cm]	Polarity
Range 1 30 - 300MHz												
1	34.9925	35.5	pk	-30.4	16.3	21.4	29.6	-8.2		353	100	Horz
2	172.2189	35.1	pk	-30	15.3	20.4	33.1	-12.7		212	100	Horz
3	293.5232	36.2	pk	-29.2	18.1	25.1	35.6	-10.5		297	100	Horz
Range 3 300 - 1000MHz												
4	779.6102	35.1	pk	-31.4	22	25.7	35.6	-9.9		297	98	Horz
5	987.4063	34.8	pk	-30.8	23.7	27.7	43.5	-15.8		285	98	Horz

LIMIT 1: CFR 47 Part 15 Class B 10m

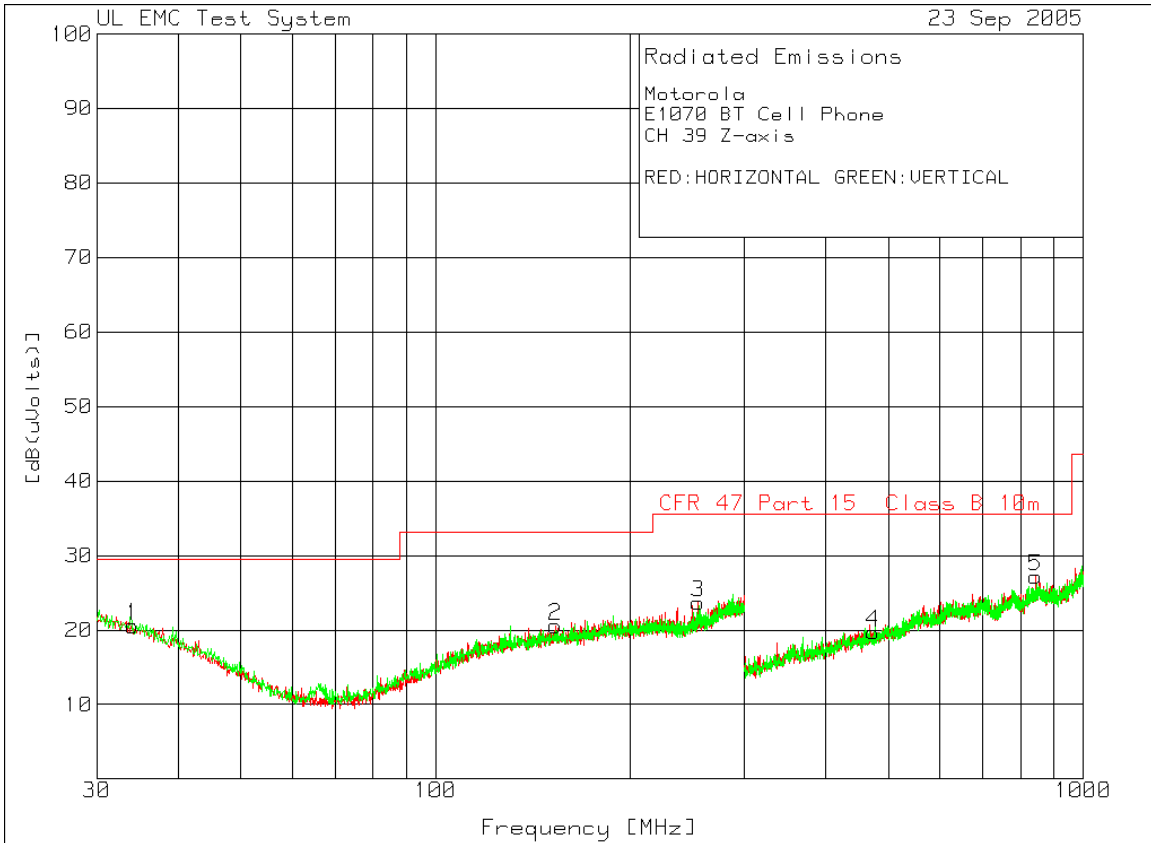


30 -1000MHz Mid Channel Dual Polarization Y

MOTOROLA
E1070
CH39
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]	Azimuth [degs]	Height [cm]	Polarity
Range 1 30 - 300MHz											
1	32.6987	35.8	pk	-30.4	17	22.4	29.6	-7.2	77	100	Horz
2	166.6866	35.5	pk	-30	15	20.5	33.1	-12.6	297	100	Horz
3	280.9745	34.9	pk	-29.4	17.9	23.4	35.6	-12.2	248	100	Horz
Range 3 300 - 1000MHz											
4	635.8321	35.4	pk	-30.8	20.1	24.7	35.6	-10.9	126	102	Horz
Range 4 300 - 1000MHz											
5	984.9575	36.2	pk	-30.8	23.7	29.1	43.5	-14.4	64	102	Vert

LIMIT 1: CFR 47 Part 15 Class B 10m

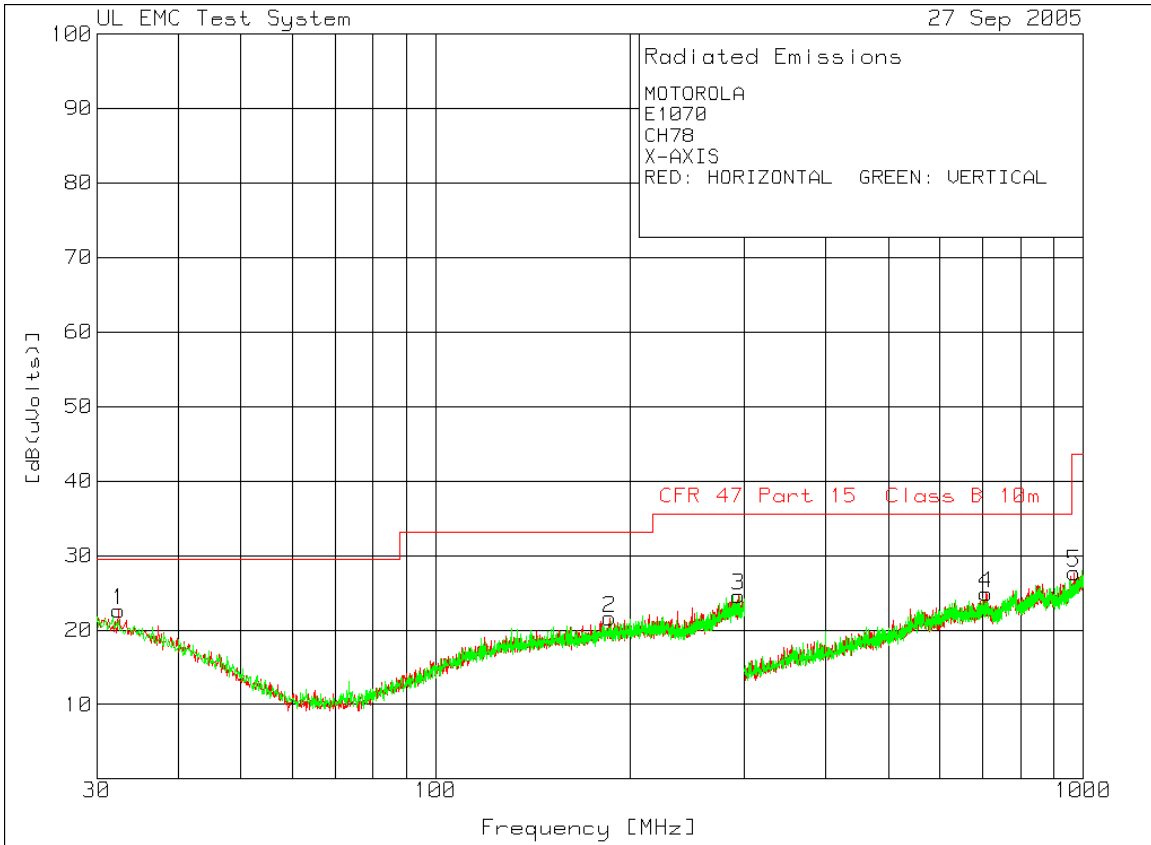


30 -1000MHz Mid Channel Dual Polarization Z

Motorola
E1070 BT Cell Phone
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]	Azimuth [degs]	Height [cm]	Polarity
Range 1 30 - 300MHz											
1	34.048	34.5	pk	-30.4	16.5	20.6	29.6	-9	255	100	Horz
2	153.0584	35.7	pk	-30	14.9	20.6	33.1	-12.5	233	200	Horz
3	254.2578	36.8	pk	-29.5	16.4	23.7	35.6	-11.9	357	100	Horz
Range 3 300 - 1000MHz											
4	474.2129	34.7	pk	-31.9	16.9	19.7	35.6	-15.9	244	100	Horz
5	842.9286	36.2	pk	-31.5	22.5	27.2	35.6	-8.4	221	100	Horz

LIMIT 1: CFR 47 Part 15 Class B 10m

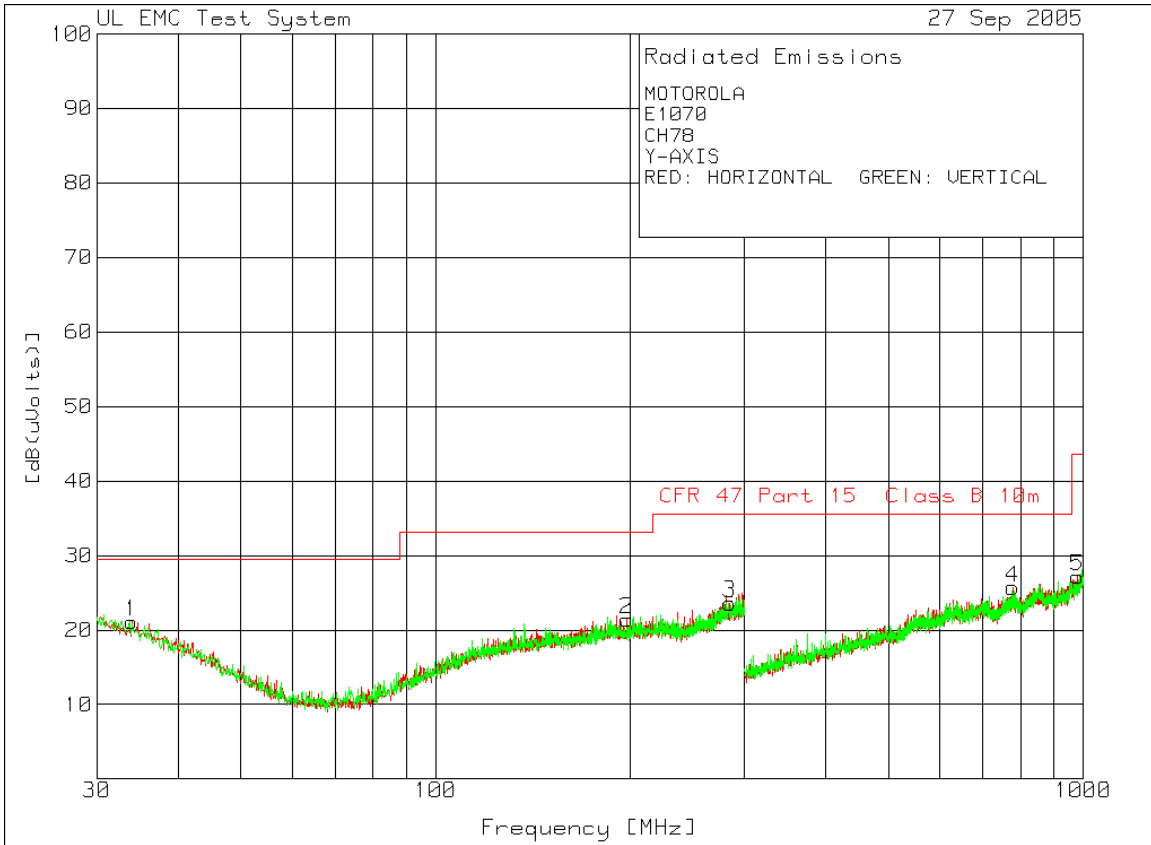


30 -1000MHz High Channel Dual Polarization X

MOTOROLA
E1070
CH78
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]	Azimuth [degs]	Height [cm]	Polarity
Range 1 30 - 300MHz											
1	32.4288	35.9	pk	-30.4	17.1	22.6	29.6	-7	346	100	Horz
2	185.4422	35.7	pk	-29.9	15.8	21.6	33.1	-11.5	101	100	Horz
3	293.3882	35.7	pk	-29.2	18.1	24.6	35.6	-11	223	100	Horz
Range 3 300 - 1000MHz											
4	707.5462	35.2	pk	-30.8	20.5	24.9	35.6	-10.7	27	102	Horz
5	967.8161	35.4	pk	-31.1	23.4	27.7	43.5	-15.8	345	102	Horz

LIMIT 1: CFR 47 Part 15 Class B 10m

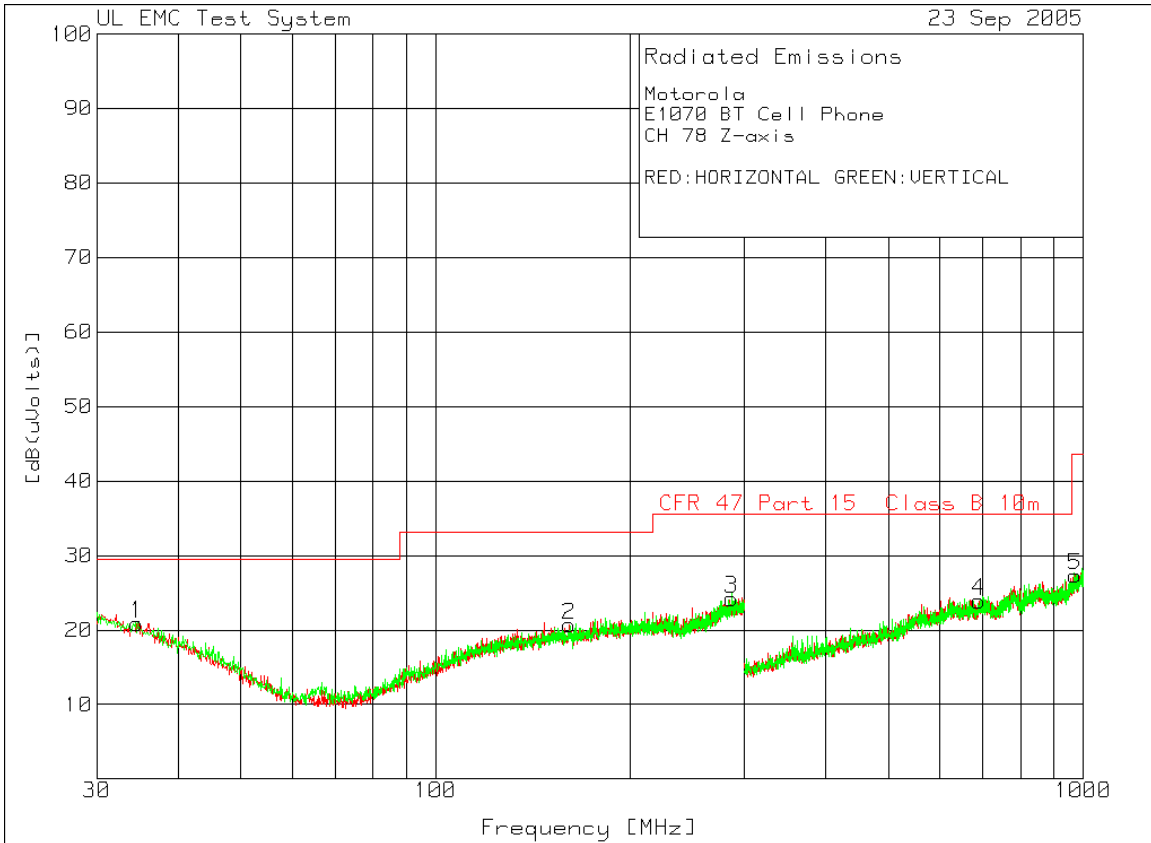


30 -1000MHz High Channel Dual Polarization Y

MOTOROLA
E1070
CH78
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]	Azimuth [degs]	Height [cm]	Polarity
Range 1 30 - 300MHz											
1	33.913	34.9	pk	-30.4	16.6	21.1	29.6	-8.5	138	100	Horz
2	197.3163	35.5	pk	-29.9	15.8	21.4	33.1	-11.7	308	100	Horz
3	284.3478	34.8	pk	-29.2	18	23.6	35.6	-12	350	100	Horz
Range 3 300 - 1000MHz											
4	778.9106	35.1	pk	-31.3	21.9	25.7	35.6	-9.9	346	102	Horz
5	979.7102	34.6	pk	-31	23.6	27.2	43.5	-16.3	77	102	Horz

LIMIT 1: CFR 47 Part 15 Class B 10m

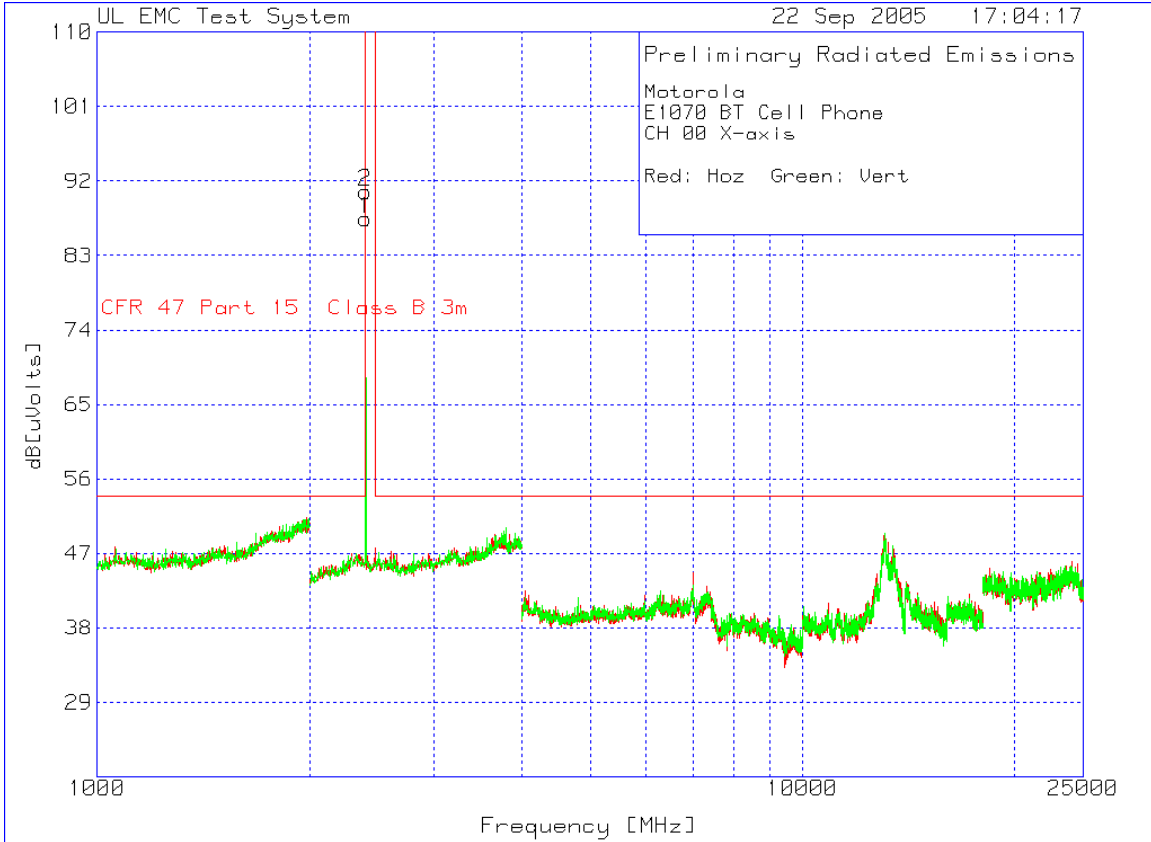


30 -1000MHz High Channel Dual Polarization Z

Motorola
E1070 BT Cell Phone
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]	Azimuth [degs]	Height [cm]	Polarity
Range 1 30 - 300MHz											
1	34.5877	34.9	pk	-30.4	16.4	20.9	29.6	-8.7	155	100	Horz
2	160.7496	35.8	pk	-30	14.9	20.7	33.1	-12.4	200	100	Horz
3	286.1019	35.5	pk	-29.4	18.1	24.2	35.6	-11.4	335	100	Horz
Range 3 300 - 1000MHz											
4	690.4048	34.4	pk	-30.7	20.2	23.9	35.6	-11.7	346	100	Horz
5	970.6147	34.9	pk	-31	23.4	27.3	43.5	-16.2	120	198	Horz

LIMIT 1: CFR 47 Part 15 Class B 10m

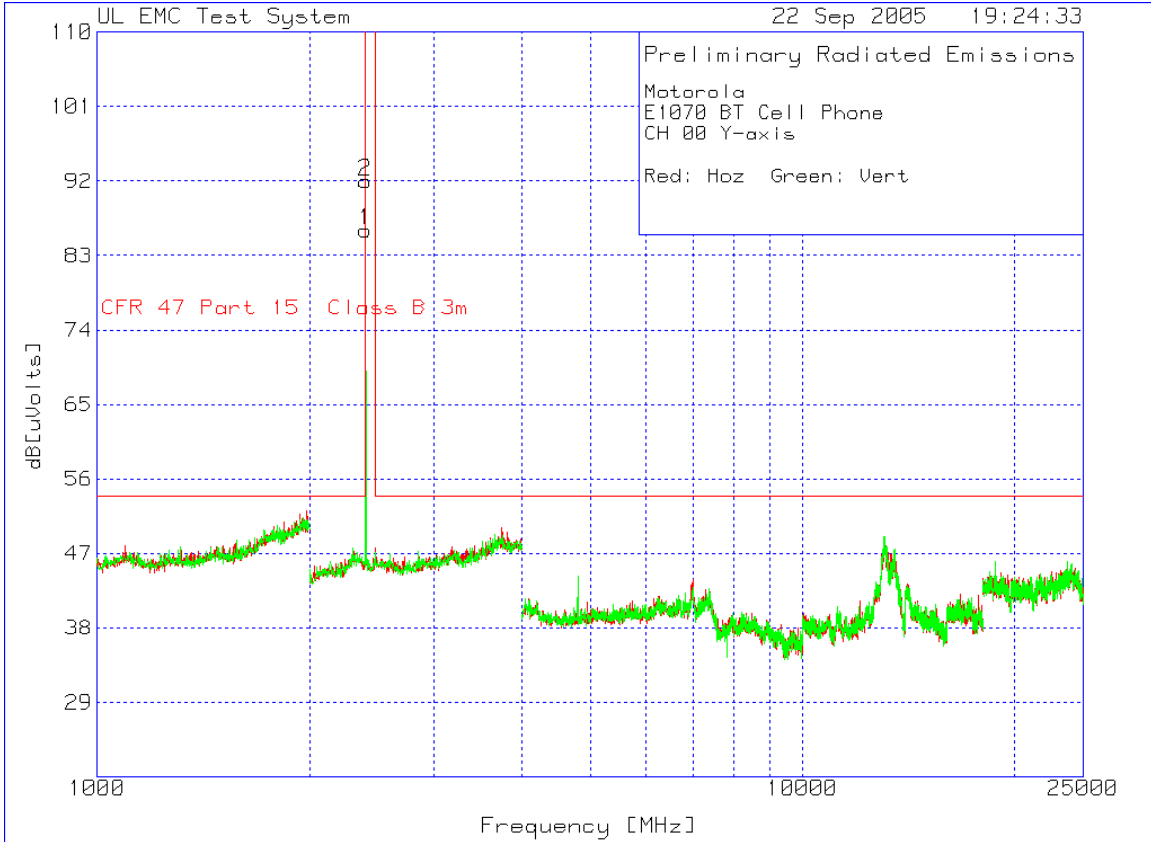


1-25 GHz Low Channel Dual Polarization X

Motorola
 E1070 BT Cell Phone
 CH 00 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]	Height [cm]	Polarity
2 - 4GHz 2000 - 4000MHz 1	2400.802	61.23	pk	4.4	21.8	87.43	999	-911.57	100	Horz
2 - 4GHz 2000 - 4000MHz 2	2400.802	64.55	pk	4.4	21.8	90.75	999	-908.25	100	Vert

LIMIT 1: CFR 47 Part 15 Class B 3m

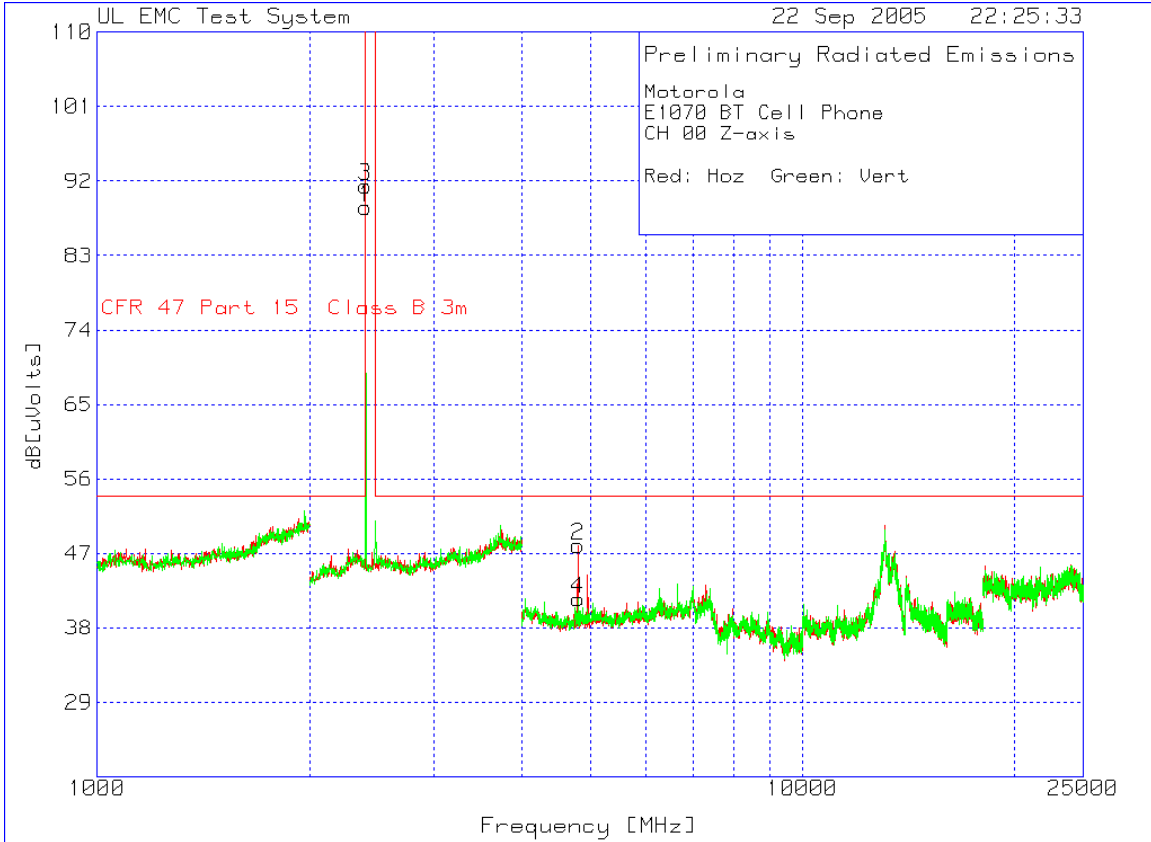


1-25 GHz Low Channel Dual Polarization Y

Motorola
 E1070 BT Cell Phone
 CH 00 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]	Height [cm]	Polarity
2 - 4GHz 2000 - 4000MHz 1	2400.802	59.86	pk	4.4	21.8	86.06	999	-912.94	149	Horz
2 - 4GHz 2000 - 4000MHz 2	2400.802	65.78	pk	4.4	21.8	91.98	999	-907.02	149	Vert

LIMIT 1: CFR 47 Part 15 Class B 3m

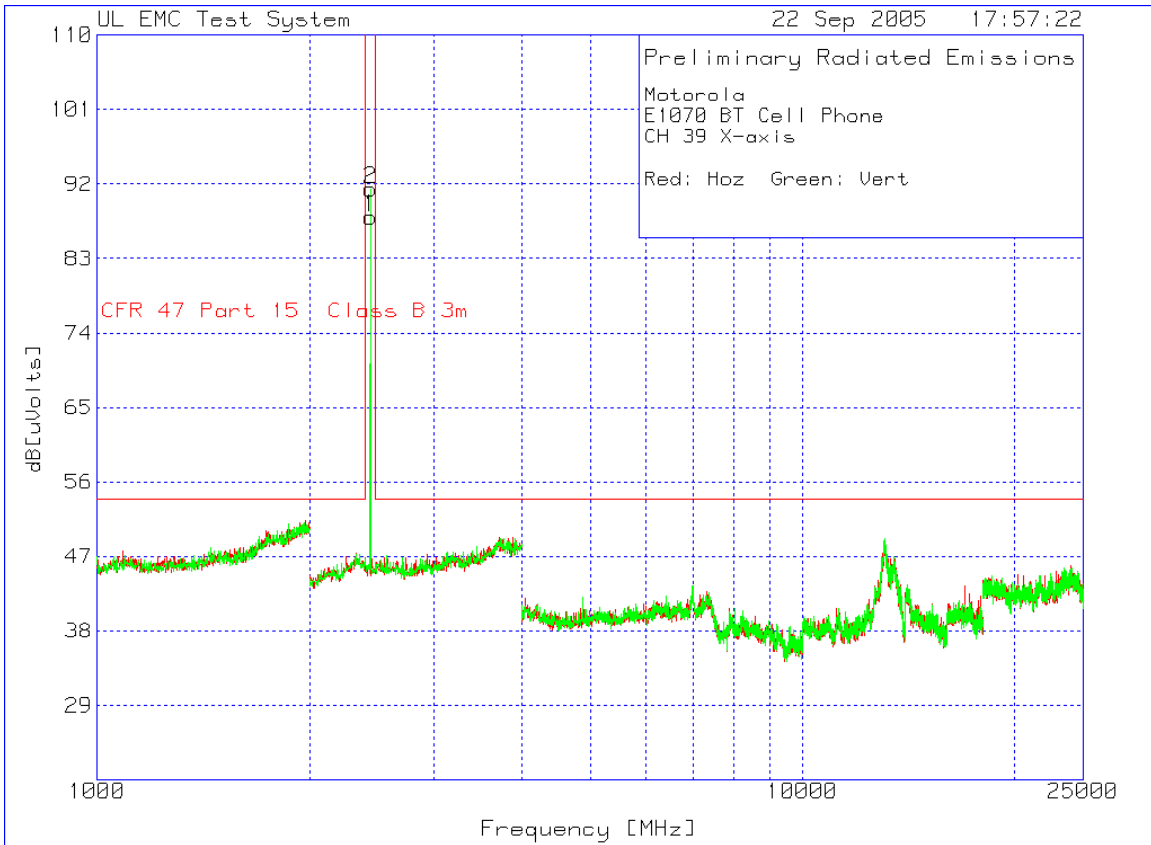


1-25 GHz Low Channel Dual Polarization Z

Motorola
 E1070 BT Cell Phone
 CH 00 Z-axis
 Red: Hoz Green: Vert
 Marker
 Number

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	62.63	pk	4.4	21.8	88.83	999	-910.17	100	Horz
4 - 8GHz 4000 - 8000MHz 2	4804.805	70.88	pk	-50.6	27.7	47.98	54	-6.02	100	Horz
2 - 4GHz 2000 - 4000MHz 3	2400.802	65.2	pk	4.4	21.8	91.4	999	-907.6	149	Vert
4 - 8GHz 4000 - 8000MHz 4	4804.805	64.41	pk	-50.6	27.7	41.51	54	-12.49	100	Vert

LIMIT 1: CFR 47 Part 15 Class B 3m

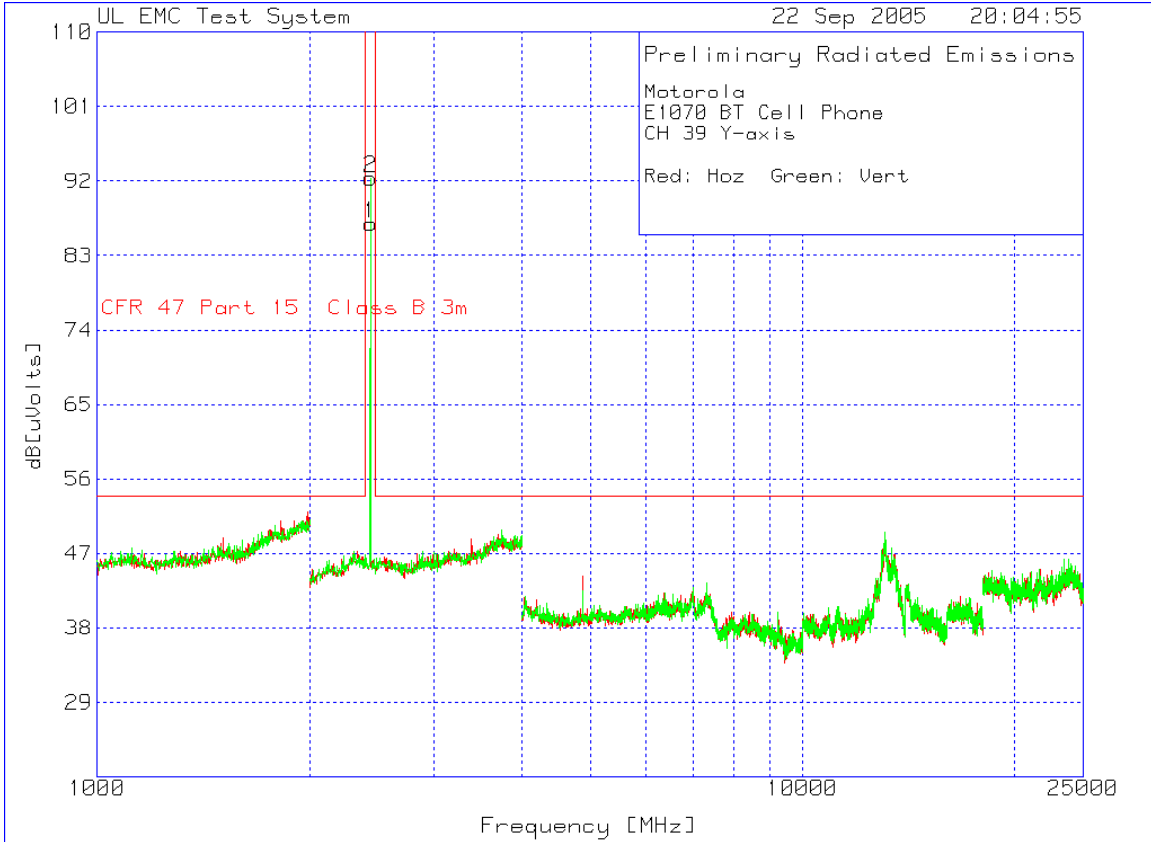


1-25 GHz Mid Channel Dual Polarization X

Motorola
 E1070 BT Cell Phone
 CH 39 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]	Height [cm]	Polarity
2 - 4GHz 2000 - 4000MHz 1	2440.882	61.92	pk	4.2	21.9	88.02	999	-910.98	100	Horz
2 - 4GHz 2000 - 4000MHz 2	2440.882	65.32	pk	4.2	21.9	91.42	999	-907.58	150	Vert

LIMIT 1: CFR 47 Part 15 Class B 3m

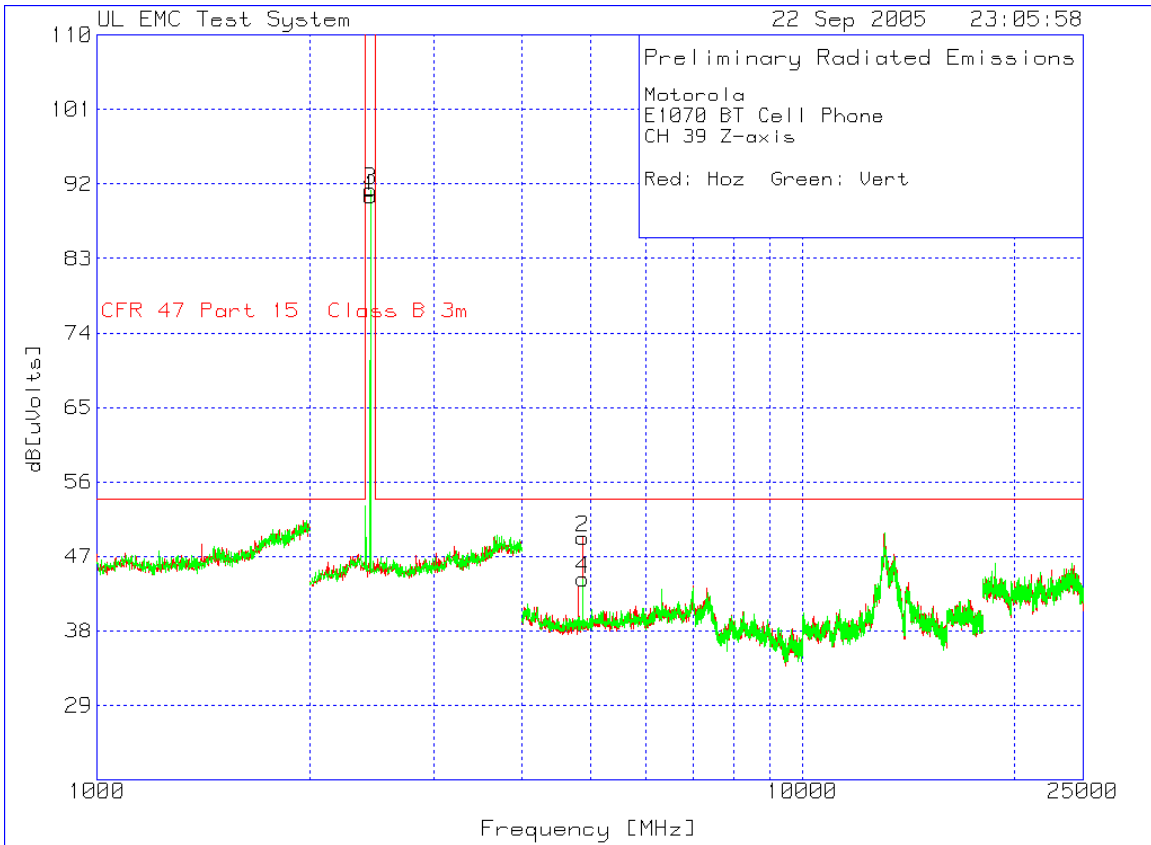


1-25 GHz Mid Channel Dual Polarization Y

Motorola
 E1070 BT Cell Phone
 CH 39 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]	Height [cm]	Polarity
2 - 4GHz 2000 - 4000MHz 1	2440.882	60.76	pk	4.2	21.9	86.86	999	-912.14	149	Horz
2 - 4GHz 2000 - 4000MHz 2	2440.882	66.25	pk	4.2	21.9	92.35	999	-906.65	149	Vert

LIMIT 1: CFR 47 Part 15 Class B 3m

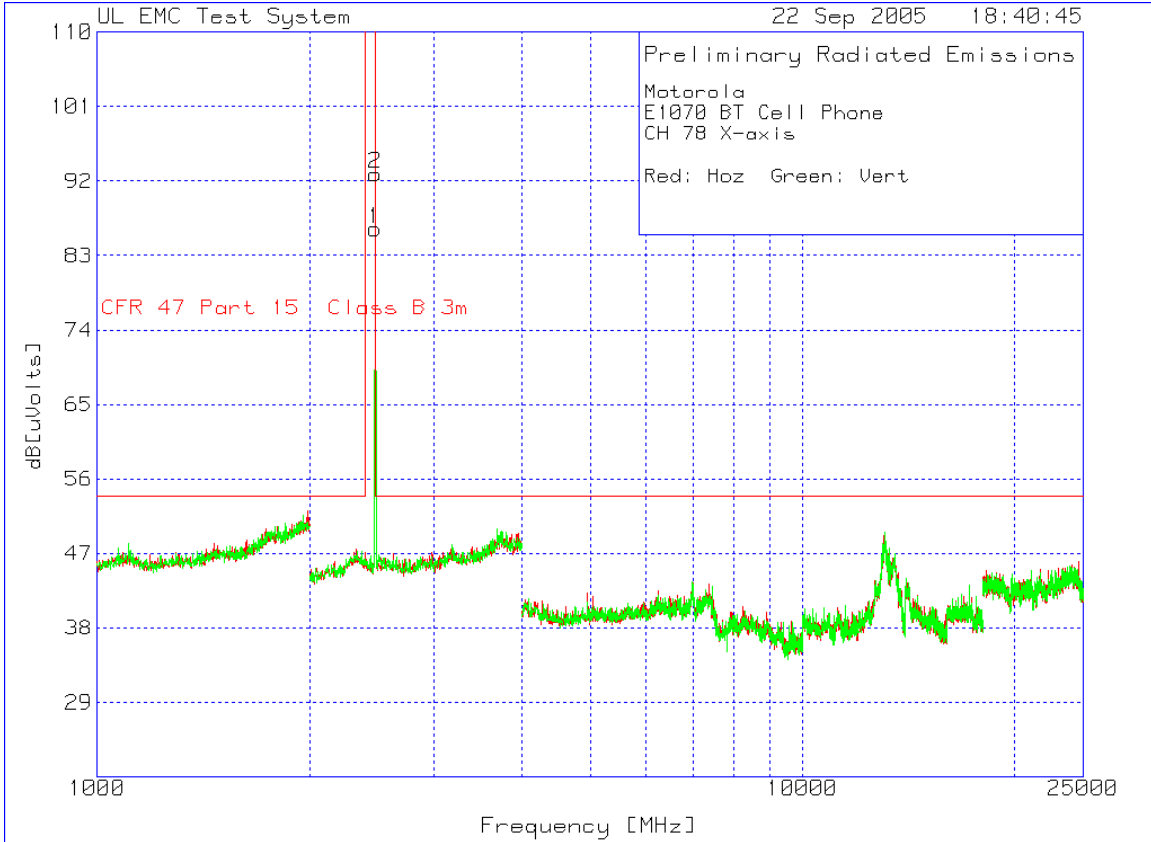


1-25 GHz Mid Channel Dual Polarization Z

Motorola
 E1070 BT Cell Phone
 CH 39 Z-axis
 Red: Hoz Green: Vert
 Marker
 Number

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	64.42	pk	4.2	21.9	90.52	999	-908.48	100	Horz
4 - 8GHz 4000 - 8000MHz 2	4880.881	72.08	pk	-50.5	27.7	49.28	54	-4.72	100	Horz
2 - 4GHz 2000 - 4000MHz 3	2440.882	65.2	pk	4.2	21.9	91.3	999	-907.7	149	Vert
4 - 8GHz 4000 - 8000MHz 4	4880.881	67.1	pk	-50.5	27.7	44.3	54	-9.7	100	Vert

LIMIT 1: CFR 47 Part 15 Class B 3m

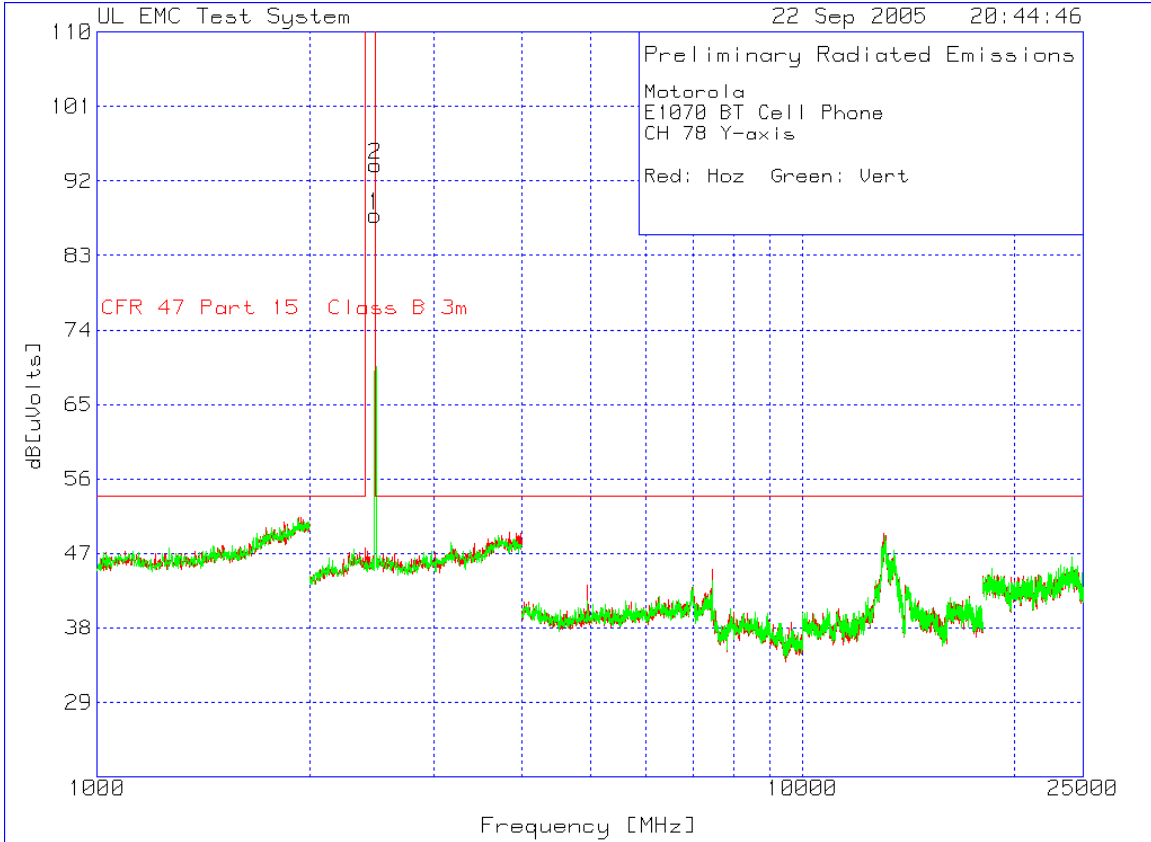


1-25 GHz High Channel Dual Polarization X

Motorola
E1070 BT Cell Phone
CH 78 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]	Height [cm]	Polarity
1	2476.954	60.1	pk	4.1	22	86.2	999	-912.8	100	Horz
2	2476.954	66.75	pk	4.1	22	92.85	999	-906.15	100	Vert

LIMIT 1: CFR 47 Part 15 Class B 3m

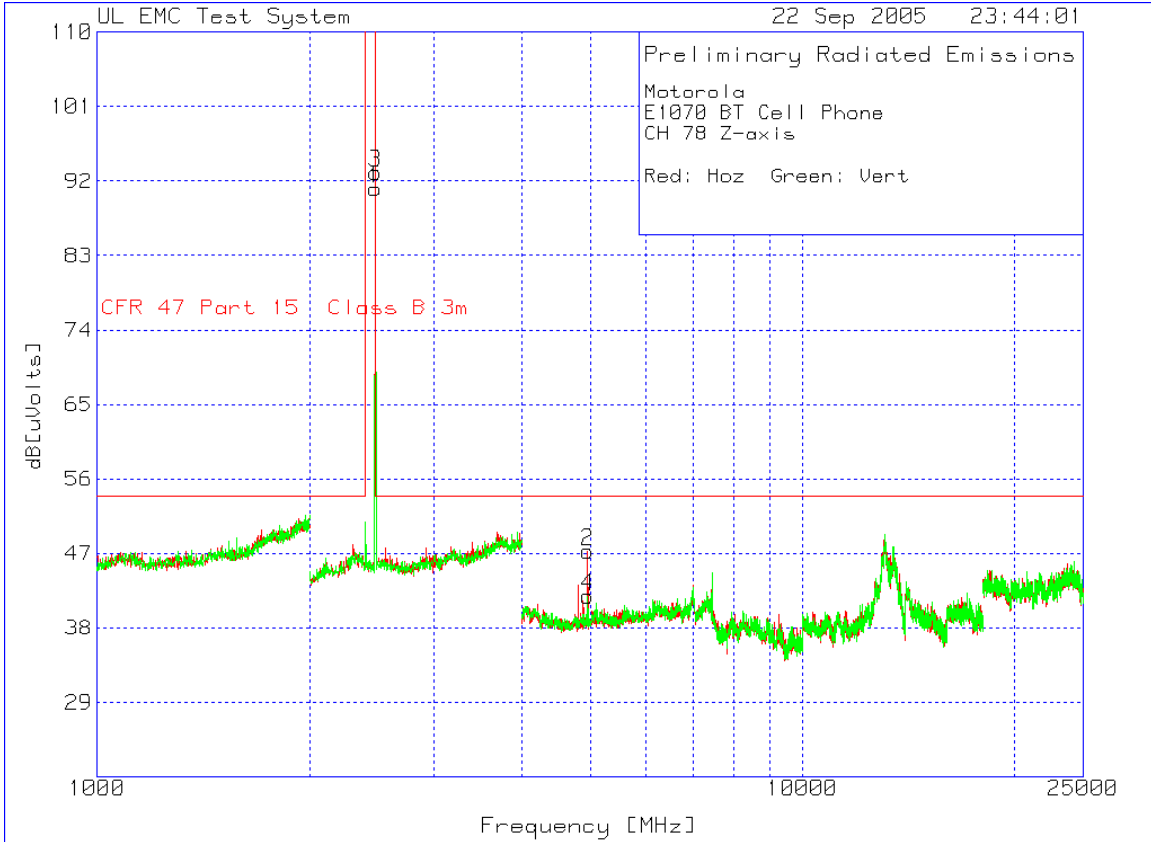


1-25 GHz High Channel Dual Polarization Y

Motorola
 E1070 BT Cell Phone
 CH 78 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]	Height [cm]	Polarity
2 - 4GHz 2000 - 4000MHz 1	2476.954	61.74	pk	4.1	22	87.84	999	-911.16	149	Horz
2 - 4GHz 2000 - 4000MHz 2	2480.962	67.85	pk	4.1	22	93.95	999	-905.05	100	Vert

LIMIT 1: CFR 47 Part 15 Class B 3m

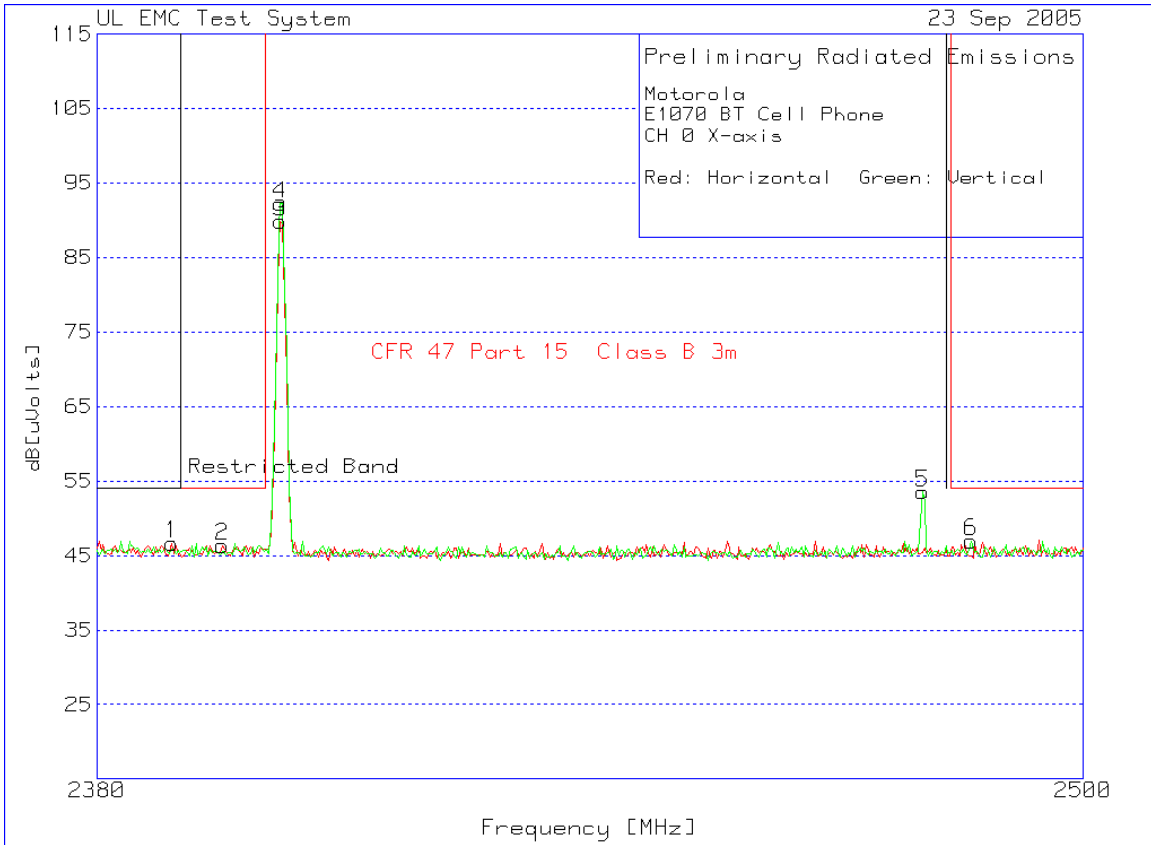


1-25 GHz High Channel Dual Polarization Z

Motorola
E1070 BT Cell Phone
CH 78 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]	Height [cm]	Polarity
2 - 4GHz 2000 - 4000MHz 1	2476.954	64.95	pk	4.1	22	91.05	999	-907.95	100	Horz
4 - 8GHz 4000 - 8000MHz 2	4960.961	70.31	pk	-50.8	27.8	47.31	54	-6.69	100	Horz
2 - 4GHz 2000 - 4000MHz 3	2480.962	66.95	pk	4.1	22	93.05	999	-905.95	149	Vert
4 - 8GHz 4000 - 8000MHz 4	4960.961	64.86	pk	-50.8	27.8	41.86	54	-12.14	100	Vert

LIMIT 1: CFR 47 Part 15 Class B 3m

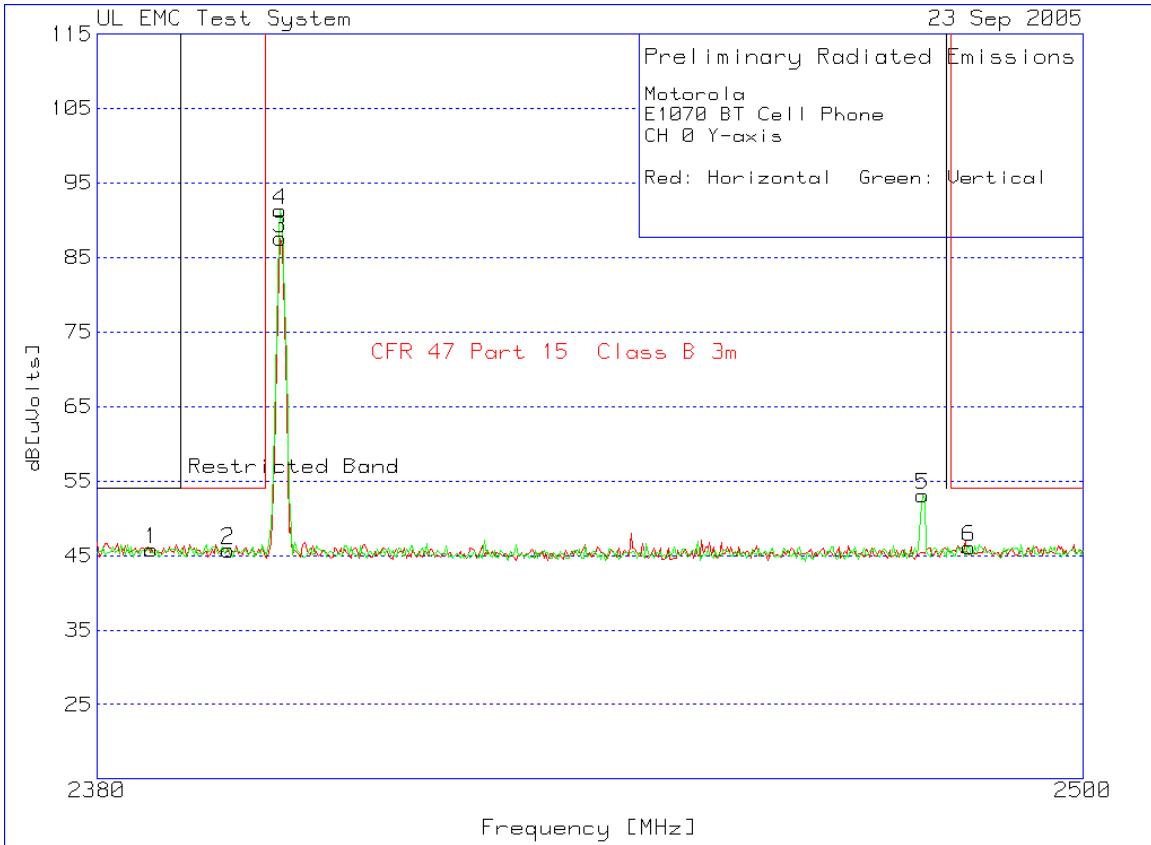


Authorized Band Emissions Low Channel Dual Polarization X

Motorola
E1070 BT Cell Phone
CH 0 X-axis
Red: Horizontal Green: Vertical
Marker
Number

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	2388.898	20.44	pk	4.4	21.8	46.64	54	-7.36	54	-7.36	100	Horz
2	2394.91	20.17	pk	4.4	21.8	46.37	54	-7.63	999	-952.63	150	Horz
3	2401.884	63.64	pk	4.4	21.8	89.84	999	-909.16	999	-909.16	100	Horz
2 - 4GHz 2380 - 2500MHz												
4	2401.884	66.04	pk	4.4	21.8	92.24	999	-906.76	999	-906.76	150	Vert
5	2480.04	27.41	pk	4.1	22	53.51	999	-945.49	999	-945.49	100	Vert
6	2486.052	20.75	pk	4.1	22.1	46.95	54	-7.05	0	46.95	100	Vert

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

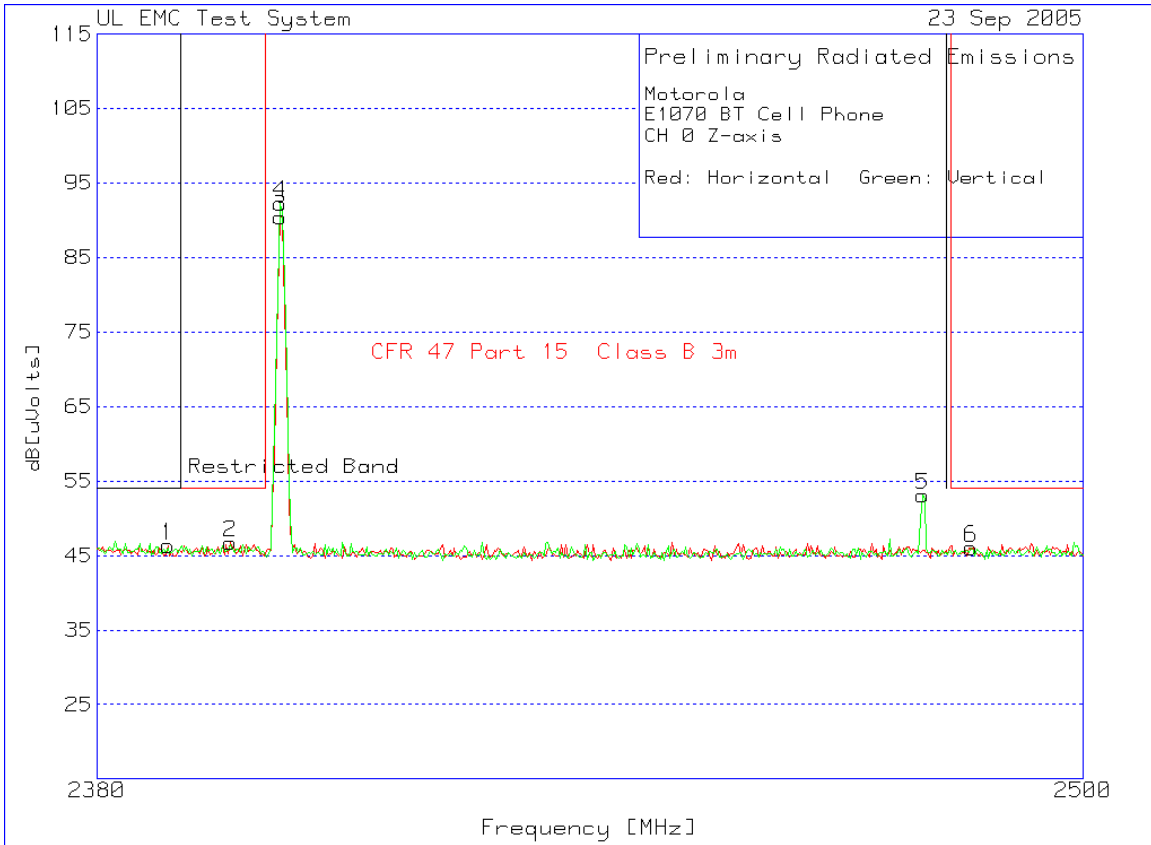


Authorized Band Emissions Low Channel Dual Polarization Y

Motorola
E1070 BT Cell Phone
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	2386.493	19.61	pk	4.4	21.8	45.81	54	-8.19	54	-8.19	100	Horz
2	2395.631	19.54	pk	4.4	21.8	45.74	54	-8.26	999	-953.26	150	Horz
3	2401.884	61.4	pk	4.4	21.8	87.6	999	-911.4	999	-911.4	100	Horz
2 - 4GHz 2380 - 2500MHz												
4	2401.884	65.12	pk	4.4	21.8	91.32	999	-907.68	999	-907.68	149	Vert
5	2480.04	26.98	pk	4.1	22	53.08	999	-945.92	999	-945.92	100	Vert
6	2485.812	19.93	pk	4.1	22.1	46.13	54	-7.87	0	46.13	100	Vert

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

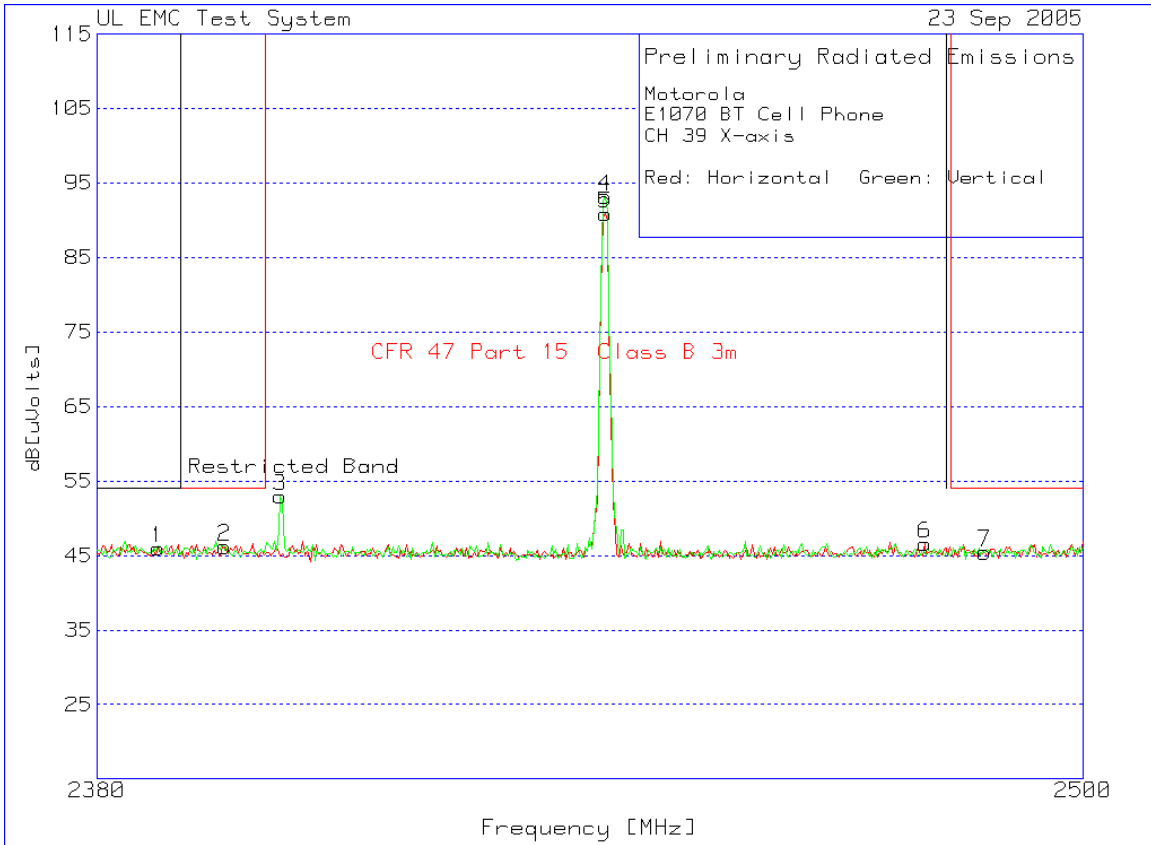


Authorized Band Emissions Low Channel Dual Polarization Z

Motorola
 E1070 BT Cell Phone
 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	20.17	pk	4.4	21.8	46.37	54	-7.63	54	-7.63	100	Horz
2	2395.872	20.56	pk	4.4	21.8	46.76	54	-7.24	999	-952.24	100	Horz
3	2401.884	64.22	pk	4.4	21.8	90.42	999	-908.58	999	-908.58	100	Horz
2 - 4GHz 2380 - 2500MHz												
4	2401.884	66.1	pk	4.4	21.8	92.3	999	-906.7	999	-906.7	100	Vert
5	2480.04	27	pk	4.1	22	53.1	999	-945.9	999	-945.9	100	Vert
6	2486.052	19.86	pk	4.1	22.1	46.06	54	-7.94	0	46.06	149	Vert

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

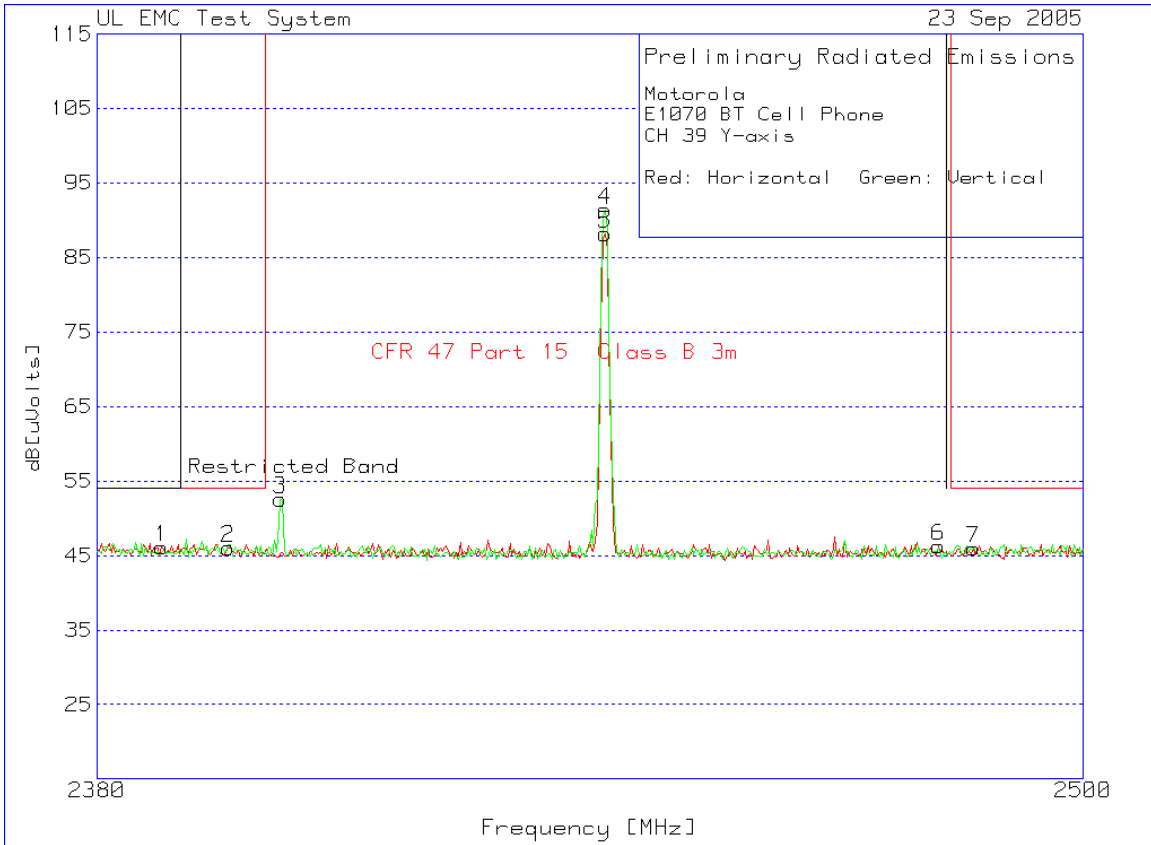


Authorized Band Emissions Mid Channel Dual Polarization X

Motorola
 E1070 BT Cell Phone
 CH 39 X-axis
 Red: Horizontal Green: Vertical
 Marker
 Number

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	19.77	pk	4.4	21.8	45.97	54	-8.03	54	-8.03	100	Horz
2	2395.15	20	pk	4.4	21.8	46.2	54	-7.8	999	-952.8	100	Horz
5	2441.082	64.75	pk	4.2	21.9	90.85	999	-908.15	999	-908.15	100	Horz
6	2480.281	20.47	pk	4.1	22	46.57	999	-952.43	999	-952.43	149	Horz
7	2487.735	19.26	pk	4.1	22.1	45.46	54	-8.54	0	45.46	149	Horz
2 - 4GHz 2380 - 2500MHz												
3	2401.884	26.72	pk	4.4	21.8	52.92	999	-946.08	999	-946.08	100	Vert
4	2441.082	67.09	pk	4.2	21.9	93.19	999	-905.81	999	-905.81	149	Vert

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



Authorized Band Emissions Mid Channel Dual Polarization Y

Motorola
E1070 BT Cell Phone
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	2387.695	19.93	pk	4.4	21.8	46.13	54	-7.87	54	-7.87	100	Horz
2	2395.631	19.87	pk	4.4	21.8	46.07	54	-7.93	999	-952.93	100	Horz
5	2441.082	62.1	pk	4.2	21.9	88.2	999	-910.8	999	-910.8	100	Horz
6	2481.964	20.19	pk	4.1	22	46.29	999	-952.71	999	-952.71	100	Horz
7	2486.293	19.77	pk	4.1	22.1	45.97	54	-8.03	0	45.97	100	Horz
2 - 4GHz 2380 - 2500MHz												
3	2401.884	26.39	pk	4.4	21.8	52.59	999	-946.41	999	-946.41	100	Vert
4	2441.082	65.31	pk	4.2	21.9	91.41	999	-907.59	999	-907.59	150	Vert

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

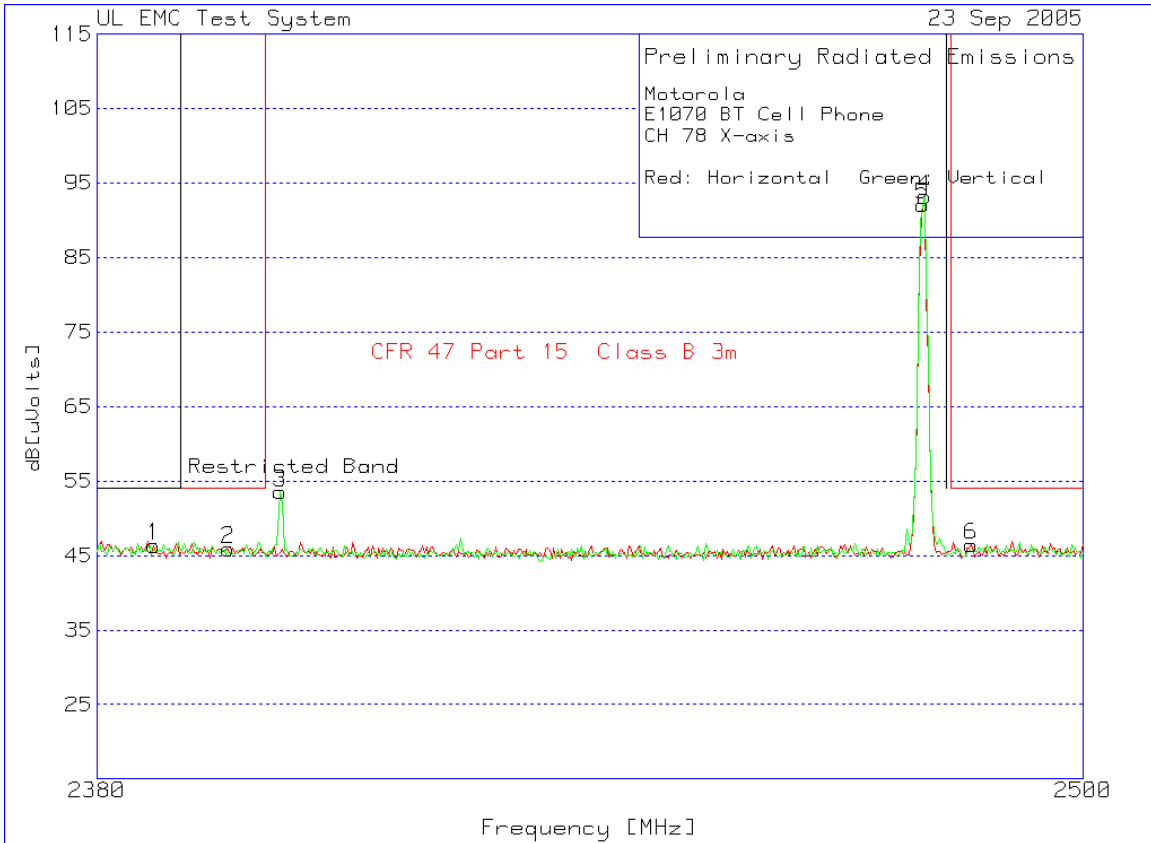


Authorized Band Emissions Mid Channel Dual Polarization Z

Motorola
E1070 BT Cell Phone
CH 39 Z-axis
Red: Horizontal Green: Vertical
Marker
Number

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	19.49	pk	4.4	21.8	45.69	54	-8.31	54	-8.31	100	Horz
2	2395.631	20.03	pk	4.4	21.8	46.23	54	-7.77	999	-952.77	150	Horz
5	2441.082	64.12	pk	4.2	21.9	90.22	999	-908.78	999	-908.78	100	Horz
6	2485.571	19.61	pk	4.1	22.1	45.81	54	-8.19	0	45.81	150	Horz
2 - 4GHz 2380 - 2500MHz												
3	2401.884	27.27	pk	4.4	21.8	53.47	999	-945.53	999	-945.53	100	Vert
4	2441.082	67.26	pk	4.2	21.9	93.36	999	-905.64	999	-905.64	100	Vert

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

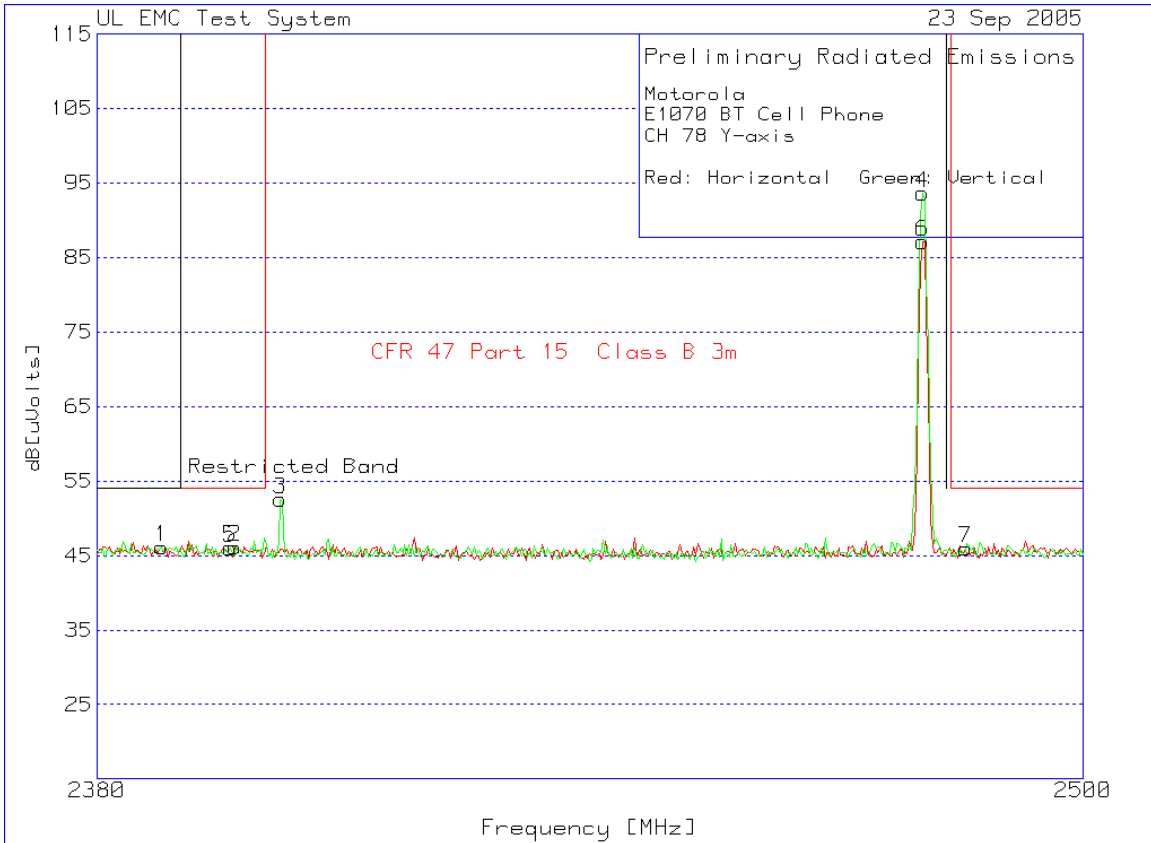


Authorized Band Emissions High Channel Dual Polarization X

Motorola
 E1070 BT Cell Phone
 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	2386.733	20.16	pk	4.4	21.8	46.36	54	-7.64	54	-7.64	150	Horz
2	2395.631	19.69	pk	4.4	21.8	45.89	54	-8.11	999	-953.11	100	Horz
5	2480.04	66	pk	4.1	22	92.1	999	-906.9	999	-906.9	100	Horz
6	2486.052	20.19	pk	4.1	22.1	46.39	54	-7.61	0	46.39	100	Horz
2 - 4GHz 2380 - 2500MHz												
3	2401.884	27.31	pk	4.4	21.8	53.51	999	-945.49	999	-945.49	100	Vert
4	2480.281	67.09	pk	4.1	22	93.19	999	-905.81	999	-905.81	149	Vert

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

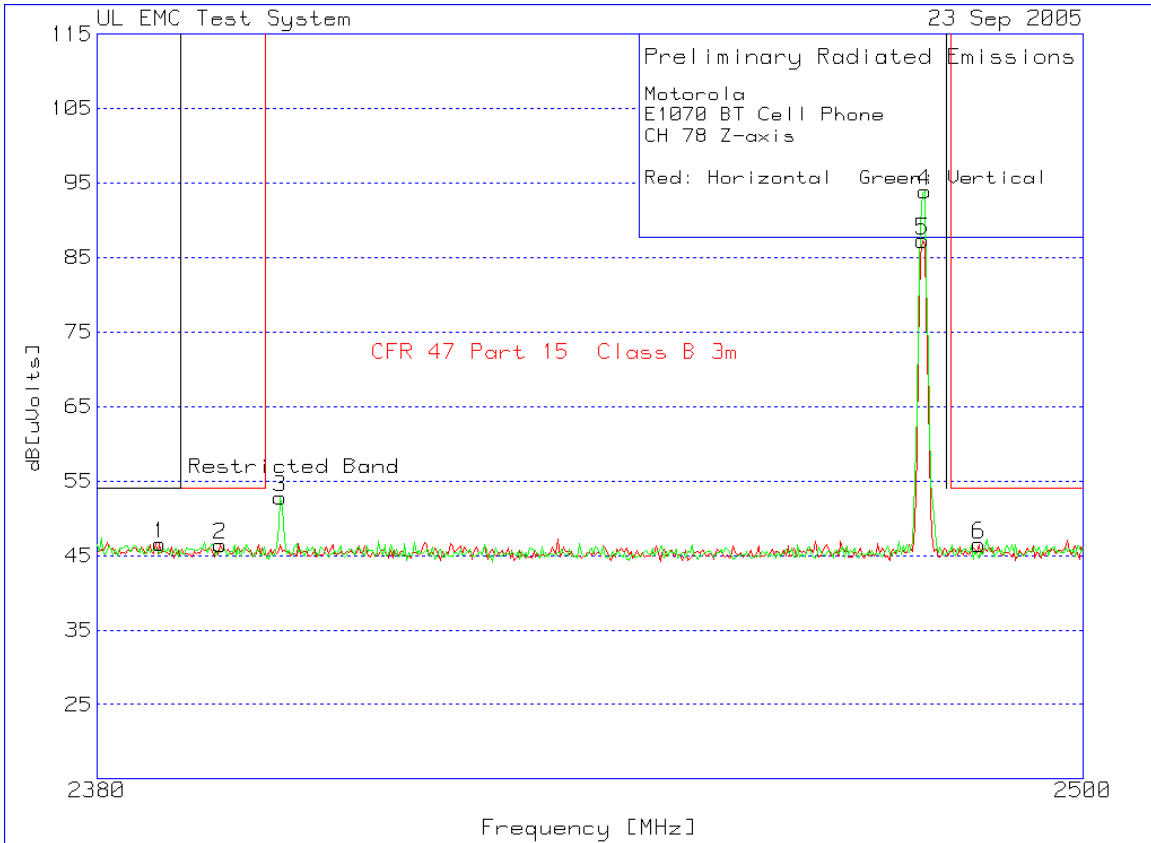


Authorized Band Emissions High Channel Dual Polarization Y

Motorola
 E1070 BT Cell Phone
 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	2387.695	19.89	pk	4.4	21.8	46.09	54	-7.91	54	-7.91	100	Horz
2	2396.353	19.91	pk	4.4	21.8	46.11	54	-7.89	999	-952.89	100	Horz
6	2480.04	61.02	pk	4.1	22	87.12	999	-911.88	999	-911.88	149	Horz
7	2485.331	19.78	pk	4.1	22.1	45.98	54	-8.02	0	45.98	149	Horz
2 - 4GHz 2380 - 2500MHz												
3	2401.884	26.34	pk	4.4	21.8	52.54	999	-946.46	999	-946.46	100	Vert
4	2480.04	67.54	pk	4.1	22	93.64	999	-905.36	999	-905.36	100	Vert
5	2395.872	19.86	pk	4.4	21.8	46.06	54	-7.94	999	-952.94	149	Vert

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



Authorized Band Emissions High Channel Dual Polarization Z

Motorola
 E1070 BT Cell Phone
 CH 78 Z-axis
 Red: Horizontal Green: Vertical
 Marker
 Number

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	2387.455	20.39	pk	4.4	21.8	46.59	54	-7.41	54	-7.41	150	Horz
2	2394.669	20.2	pk	4.4	21.8	46.4	54	-7.6	999	-952.6	150	Horz
5	2480.04	61.2	pk	4.1	22	87.3	999	-911.7	999	-911.7	100	Horz
6	2487.014	20.28	pk	4.1	22.1	46.48	54	-7.52	0	46.48	150	Horz
2 - 4GHz 2380 - 2500MHz												
3	2401.884	26.6	pk	4.4	21.8	52.8	999	-946.2	999	-946.2	100	Vert
4	2480.281	67.8	pk	4.1	22	93.9	999	-905.1	999	-905.1	100	Vert

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

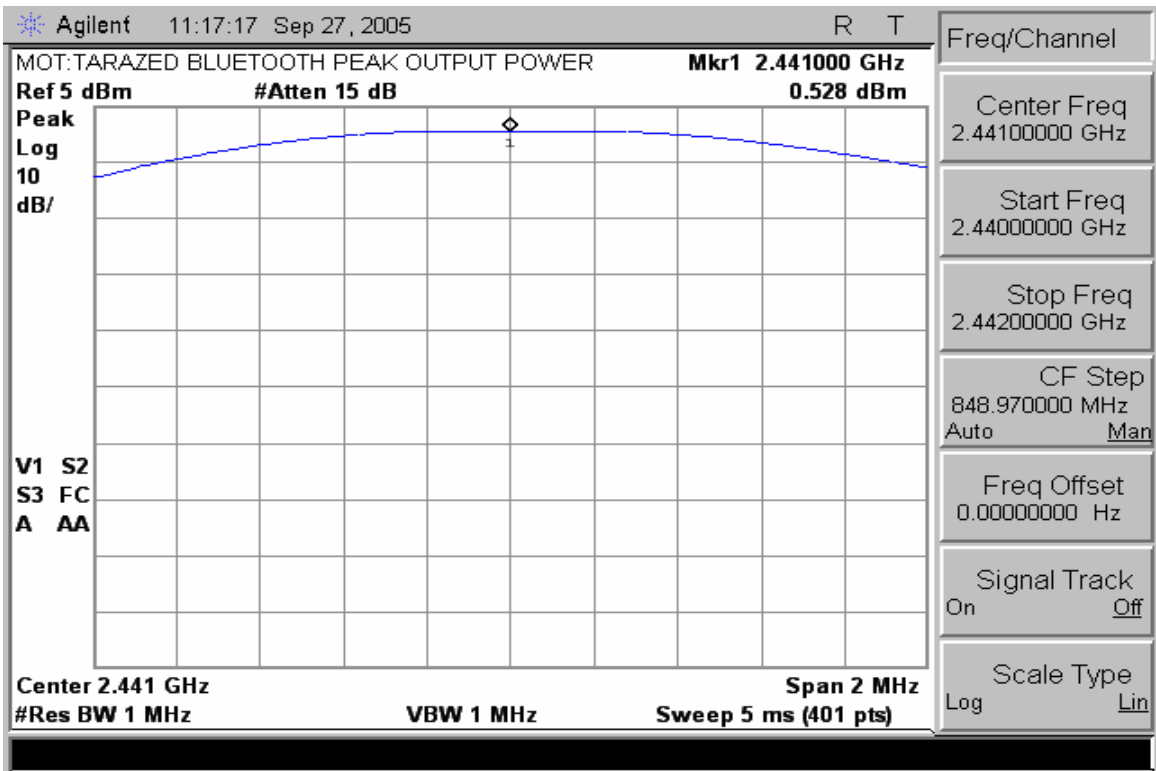
PEAK OUTPUT POWER

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

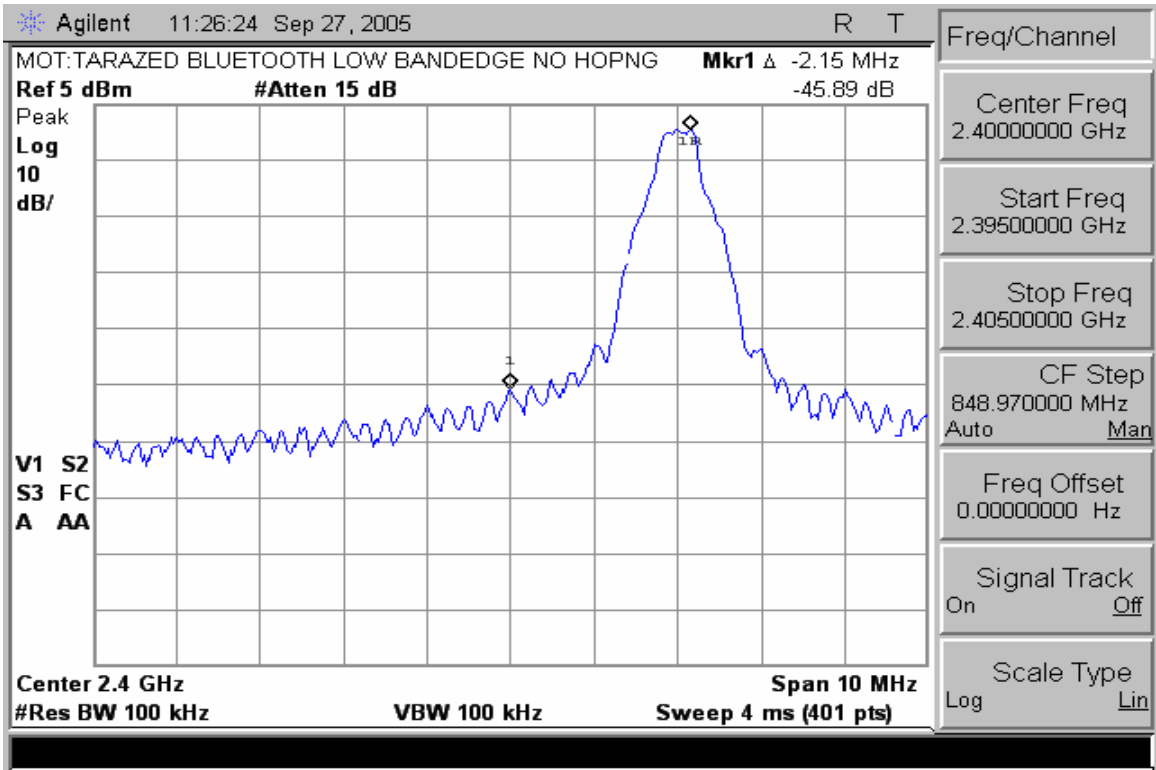
CFR 47 Part 15.247

Measurement Procedure

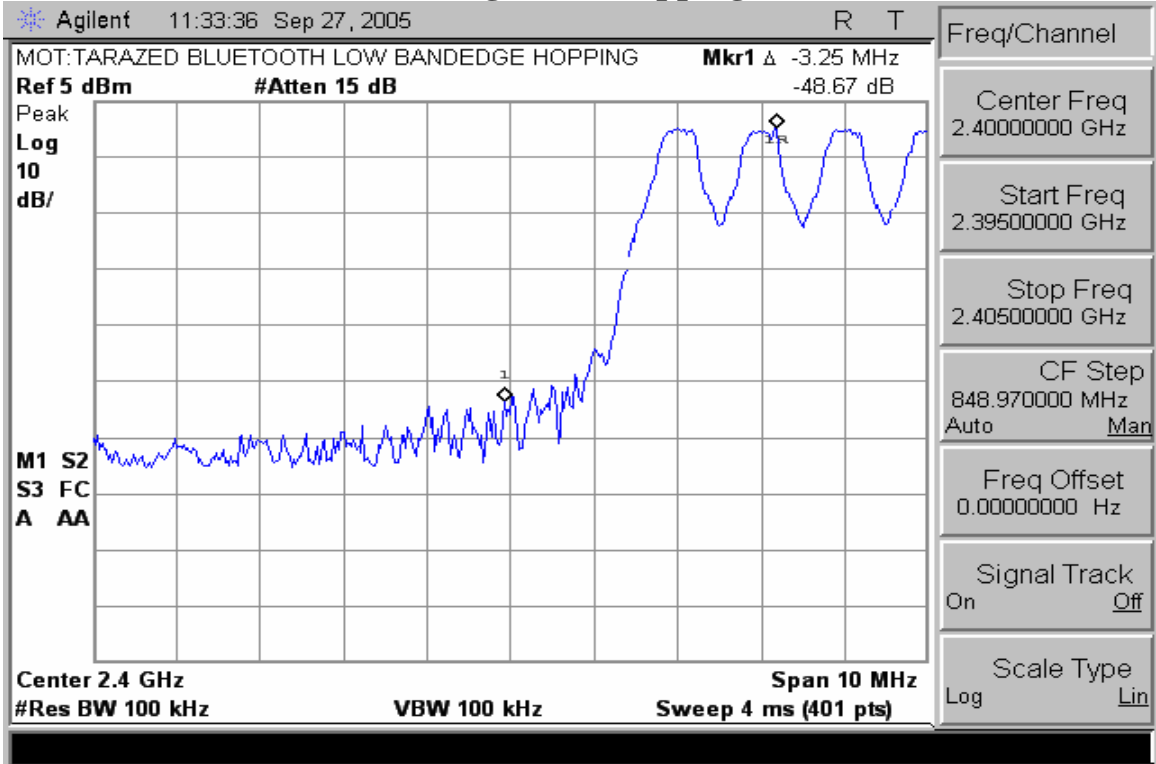
The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

Measurement Results

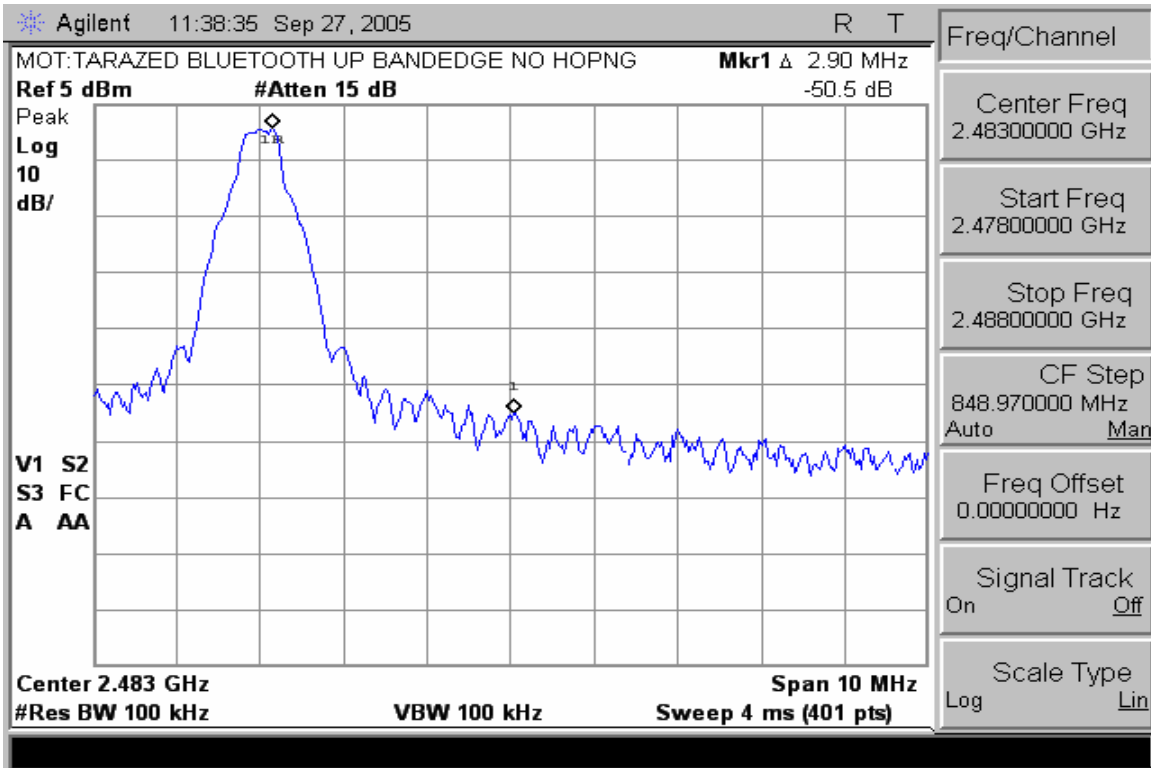
See Attached:



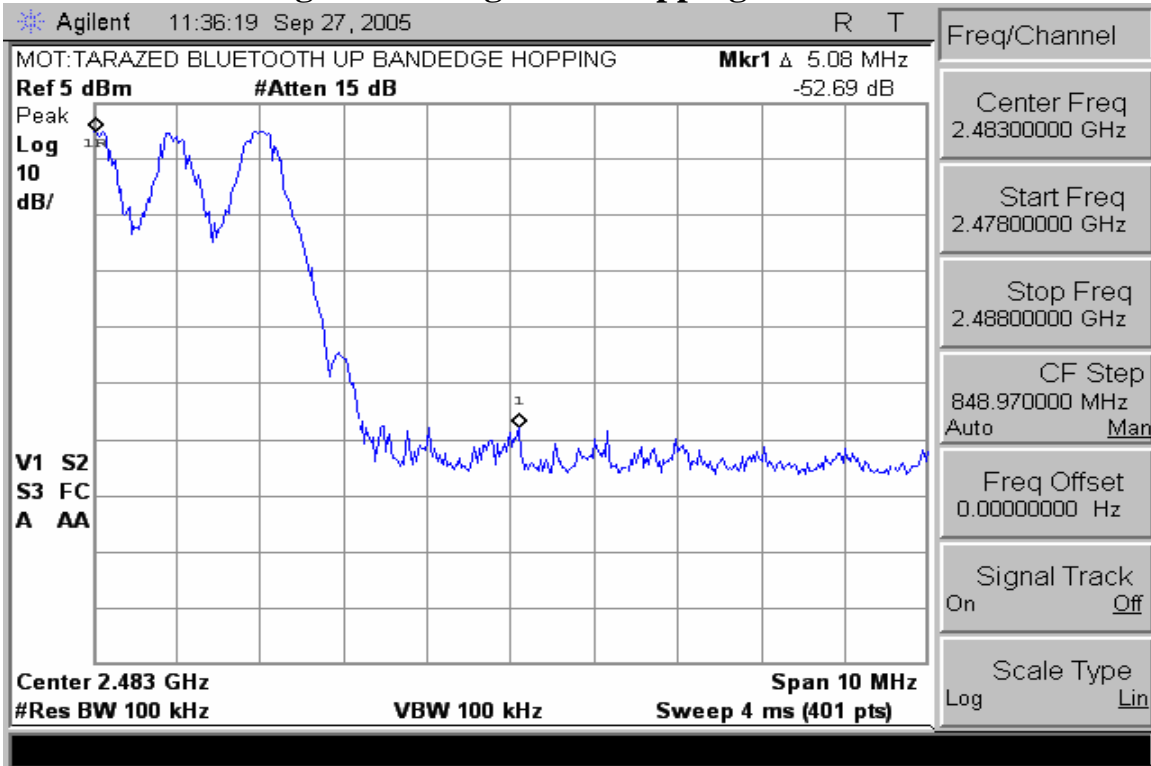
Low Band Edge with Hopping Disabled



Low Band Edge with Hopping Enabled



High Band Edge with Hopping Disabled



High Band Edge with Hopping Enabled

SPURIOUS RF CONDUCTED EMISSIONS

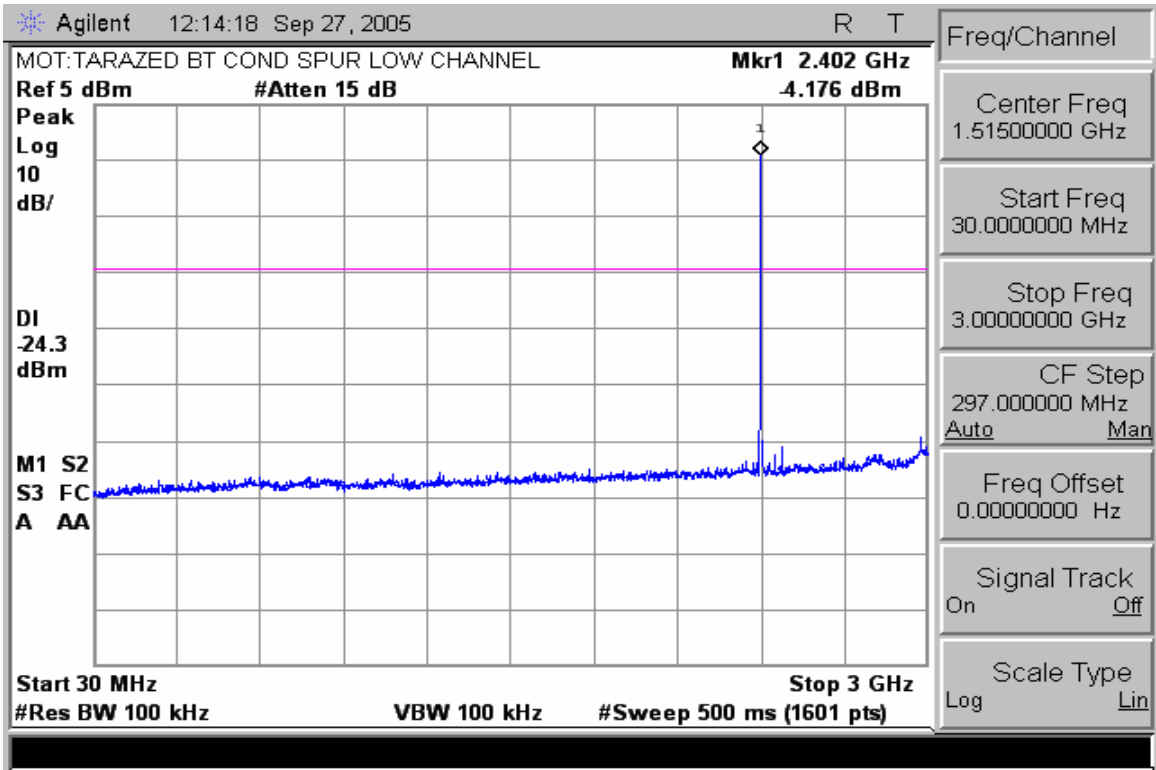
CFR 47 Part 15.247

Measurement Procedure

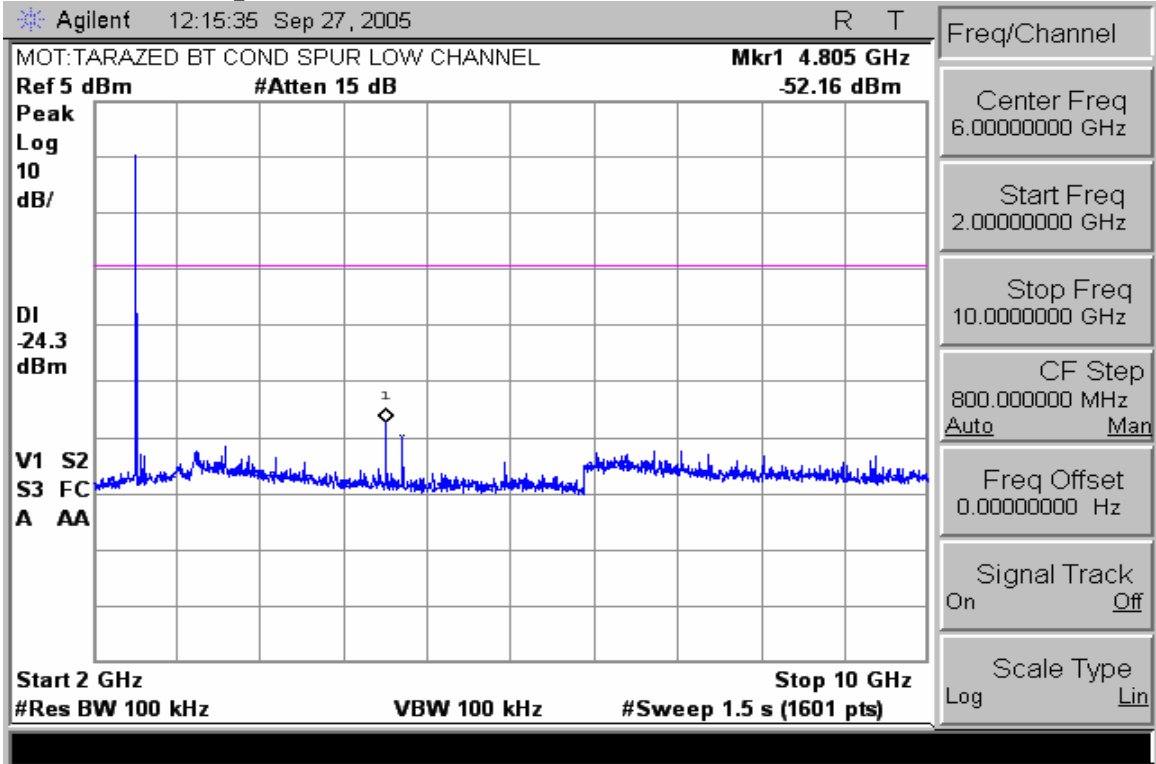
The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

Measurement Results

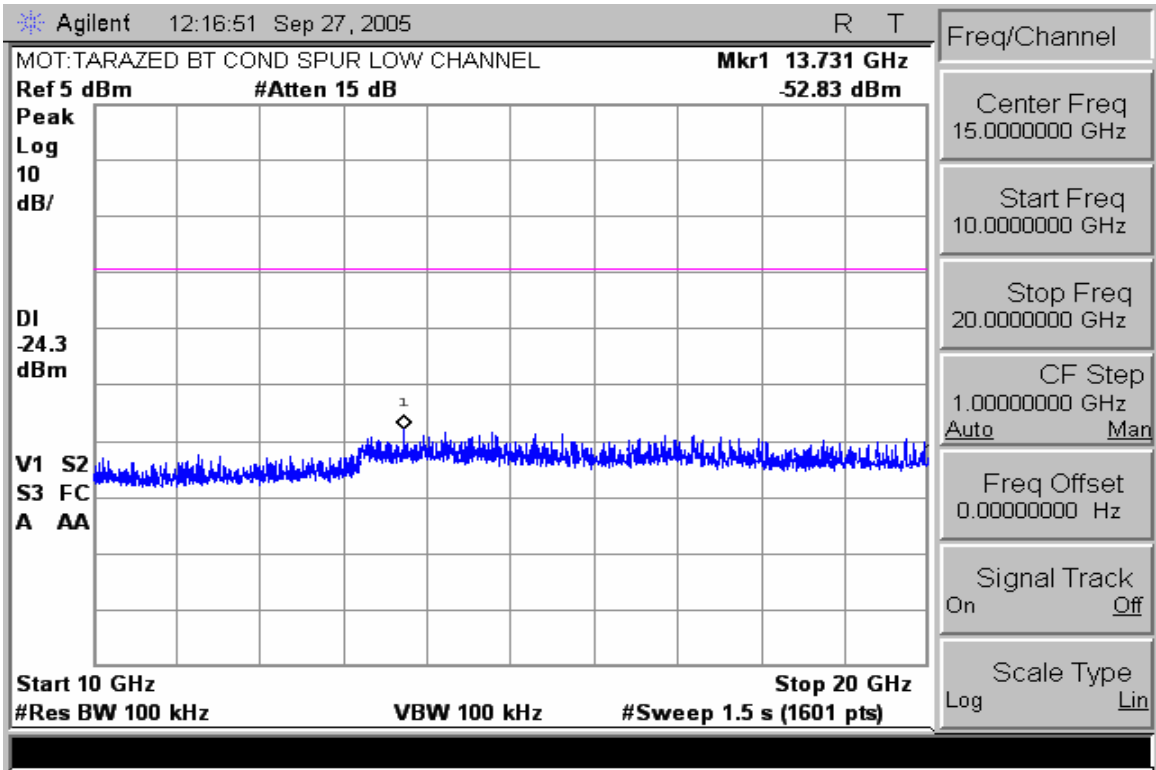
See attached:



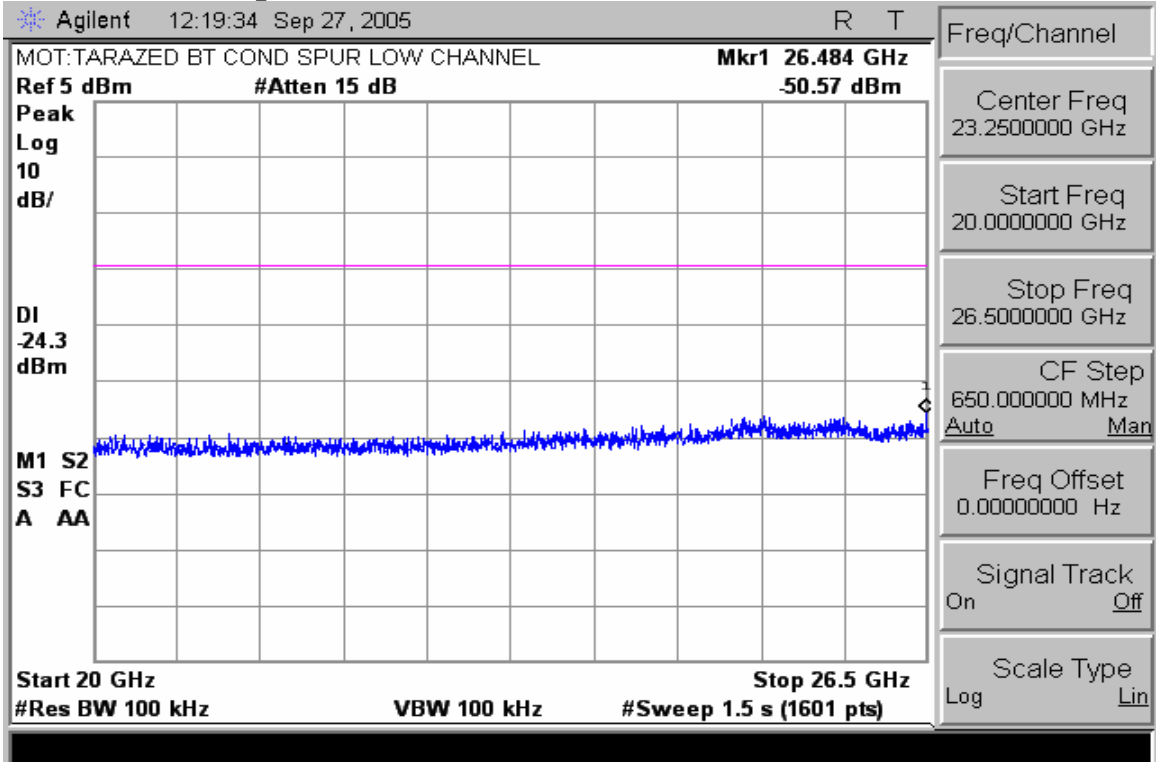
Conducted Spurious Emissions 30-3000MHz (Low Channel Enabled)



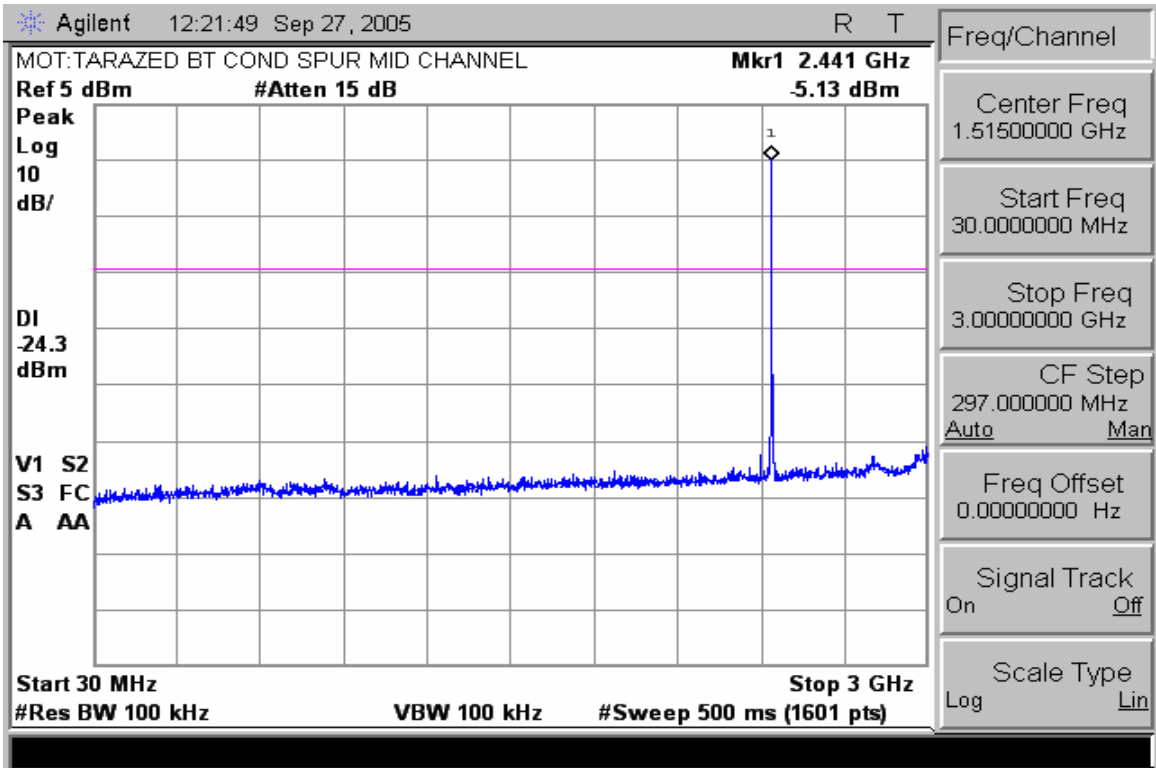
Conducted Spurious Emissions 2-10GHz (Low Channel Enabled)



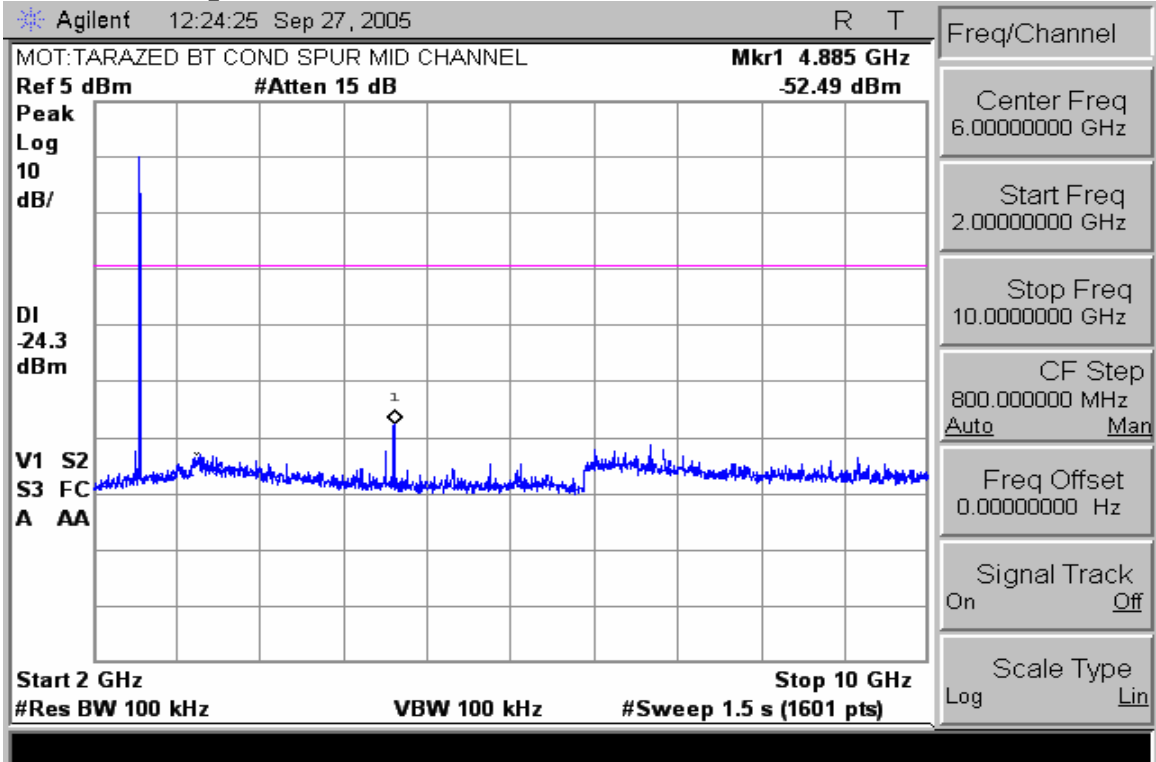
Conducted Spurious Emissions 10-20GHz (Low Channel Enabled)



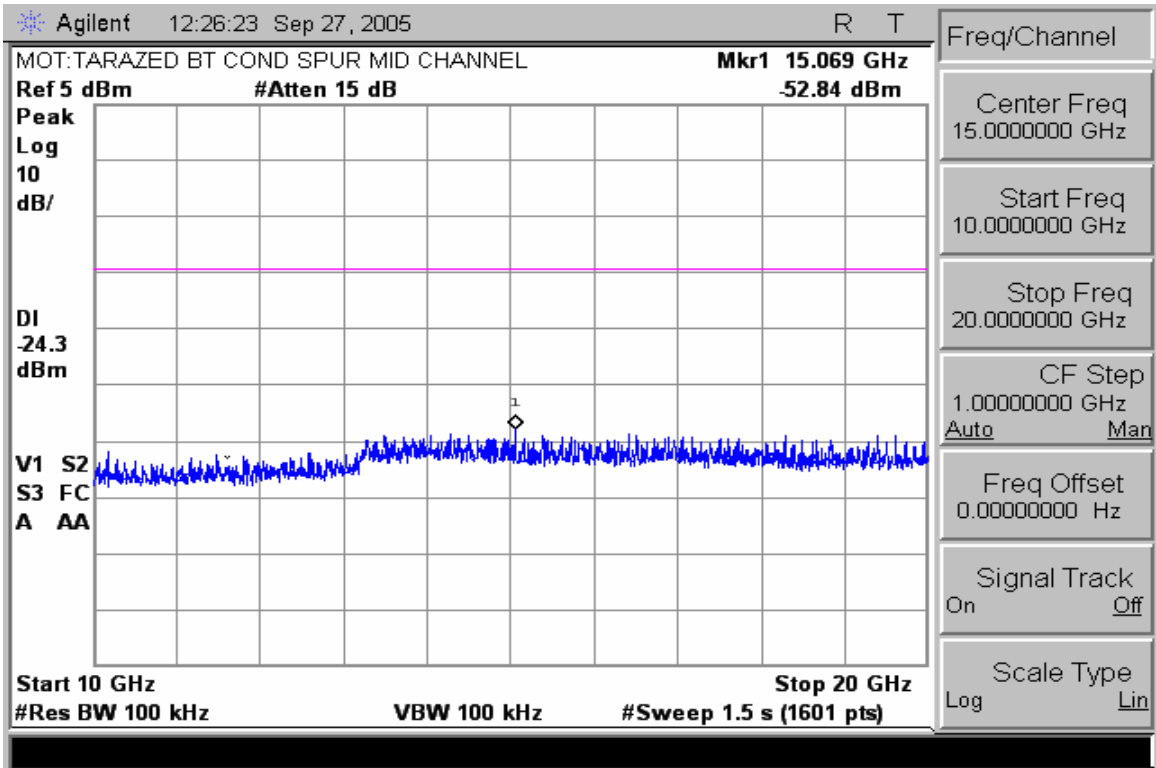
Conducted Spurious Emissions 20-26.5GHz (Low Channel Enabled)



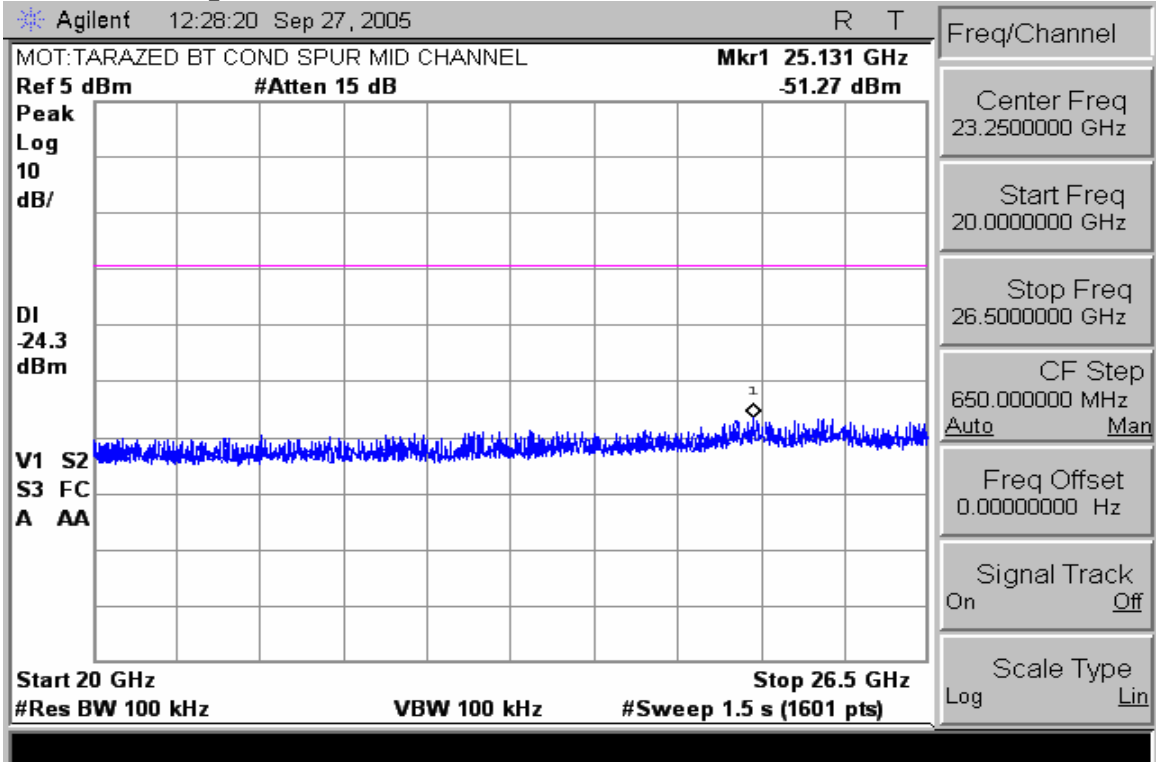
Conducted Spurious Emissions 30-3000MHz (Mid Channel Enabled)



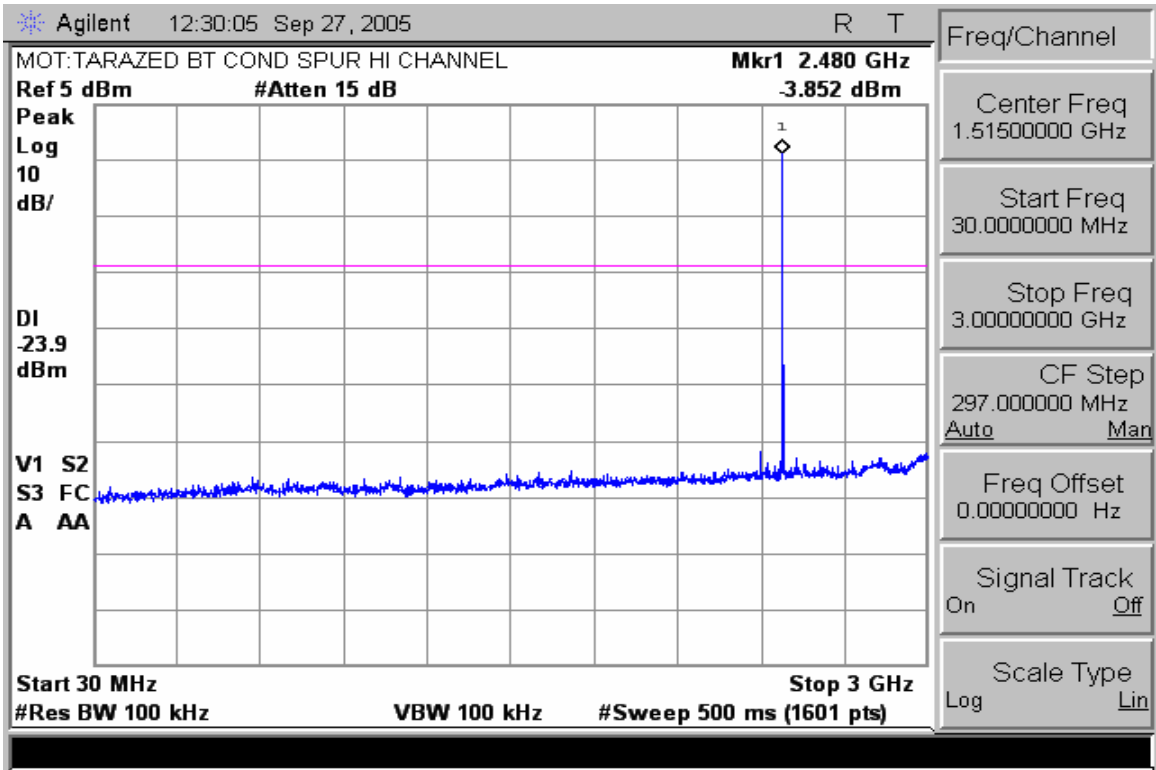
Conducted Spurious Emissions 2-10GHz (Mid Channel Enabled)



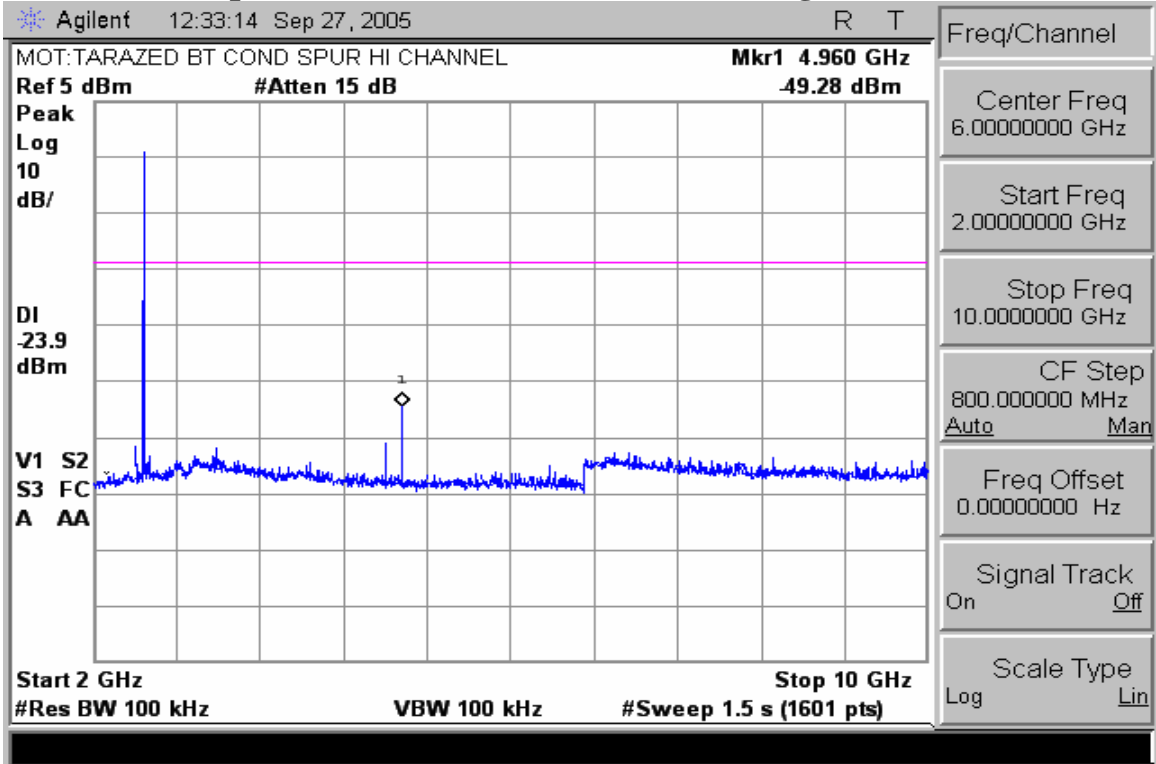
Conducted Spurious Emissions 10-20GHz (Mid Channel Enabled)



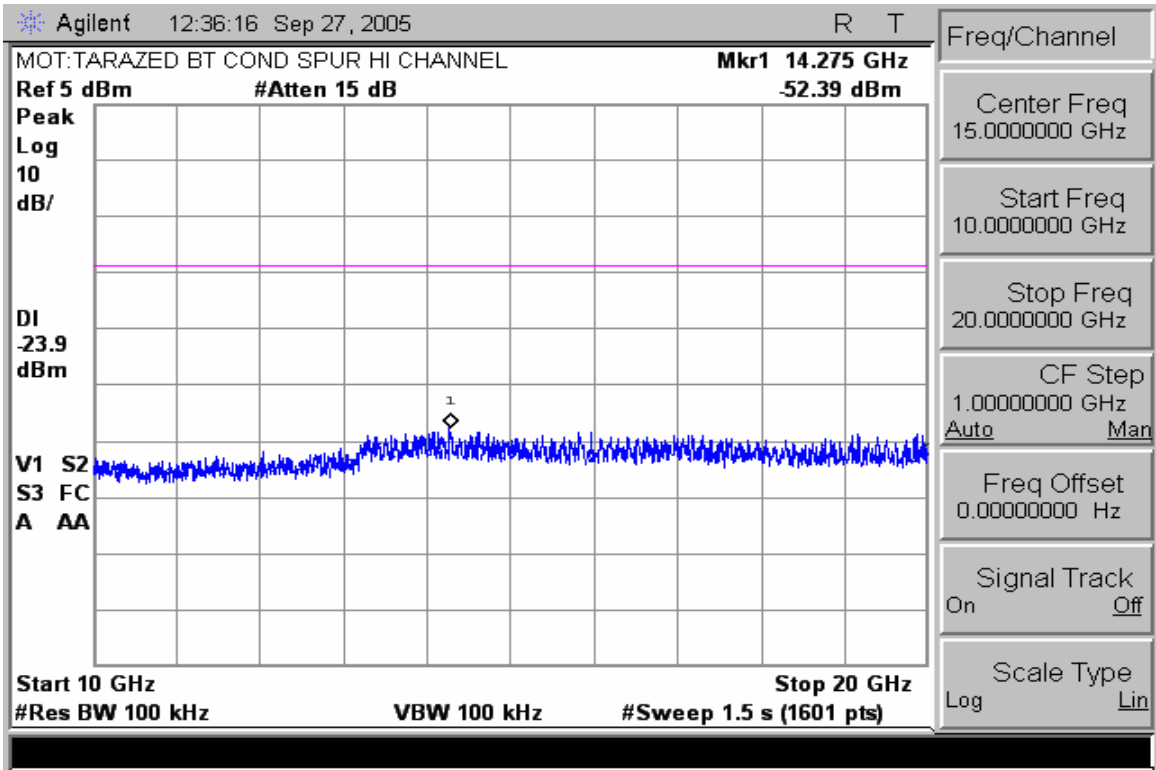
Conducted Spurious Emissions 20-26.5GHz (Mid Chan Enabled)



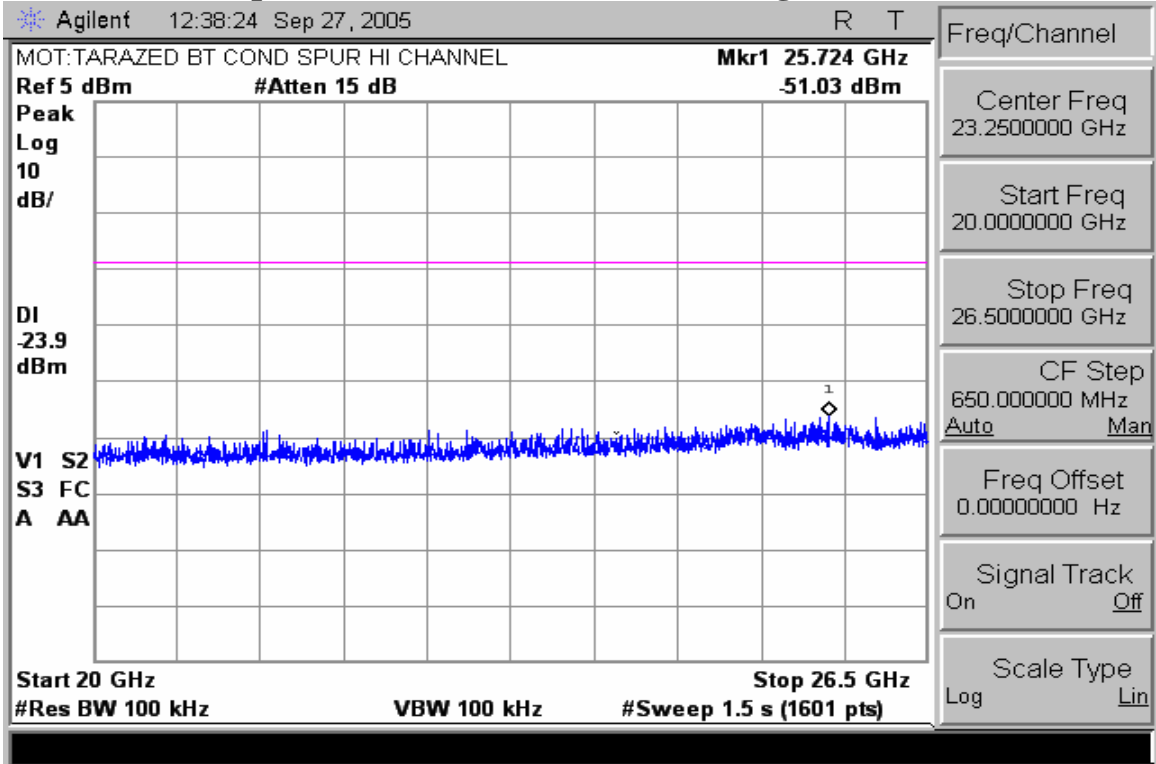
Conducted Spurious Emissions 30-3000MHz (High Channel Enabled)



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

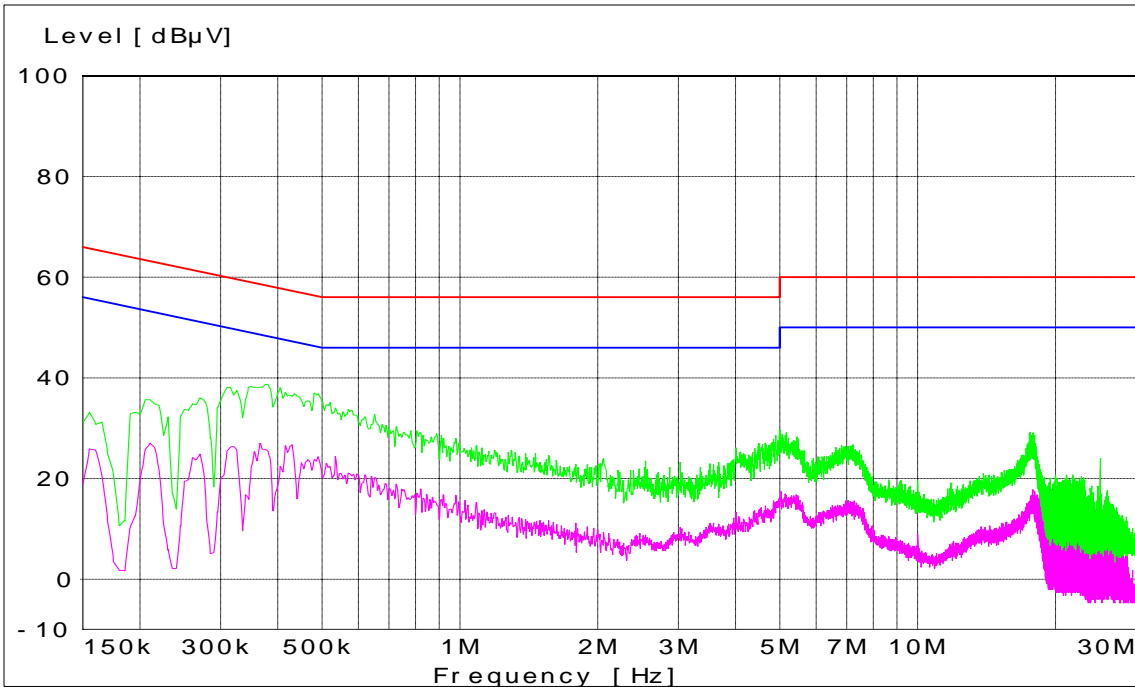
Measurement Procedure

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.

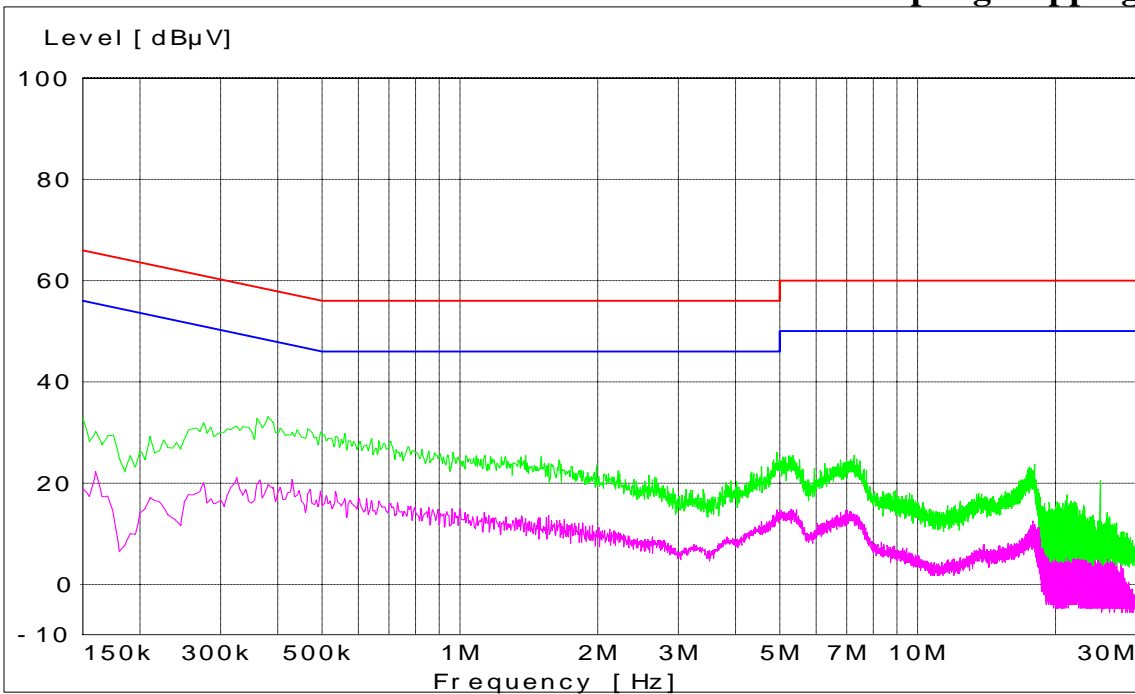
All radio-noise voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord or calibrated extension cord by the use of mating plugs and receptacles on the EUT and LISN. Equipment shall be tested with power cords that are normally supplied using 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

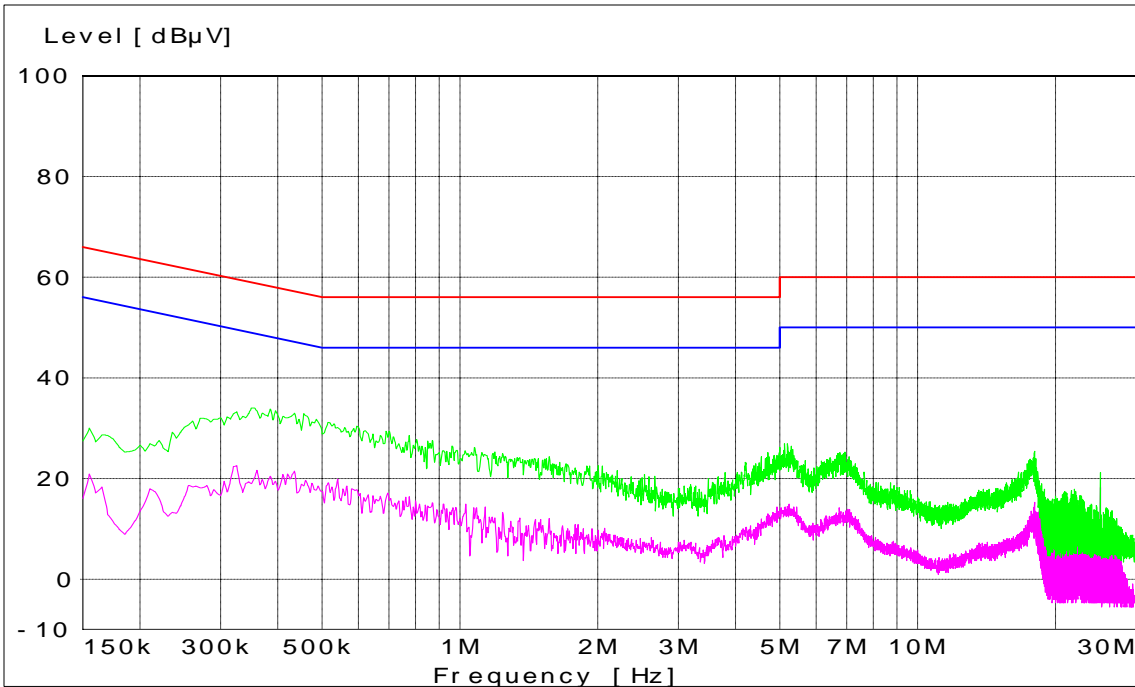
See attached:



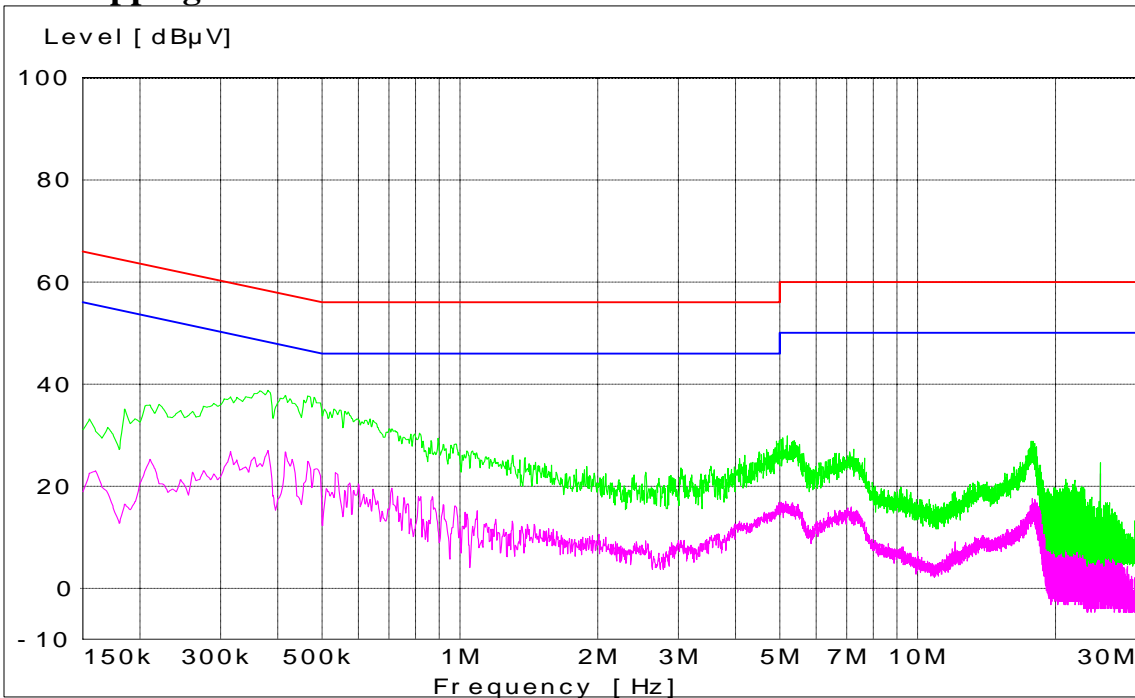
Bluetooth Channel 0 2402MHz - Tx Mode - Neutral Coupling Hopping



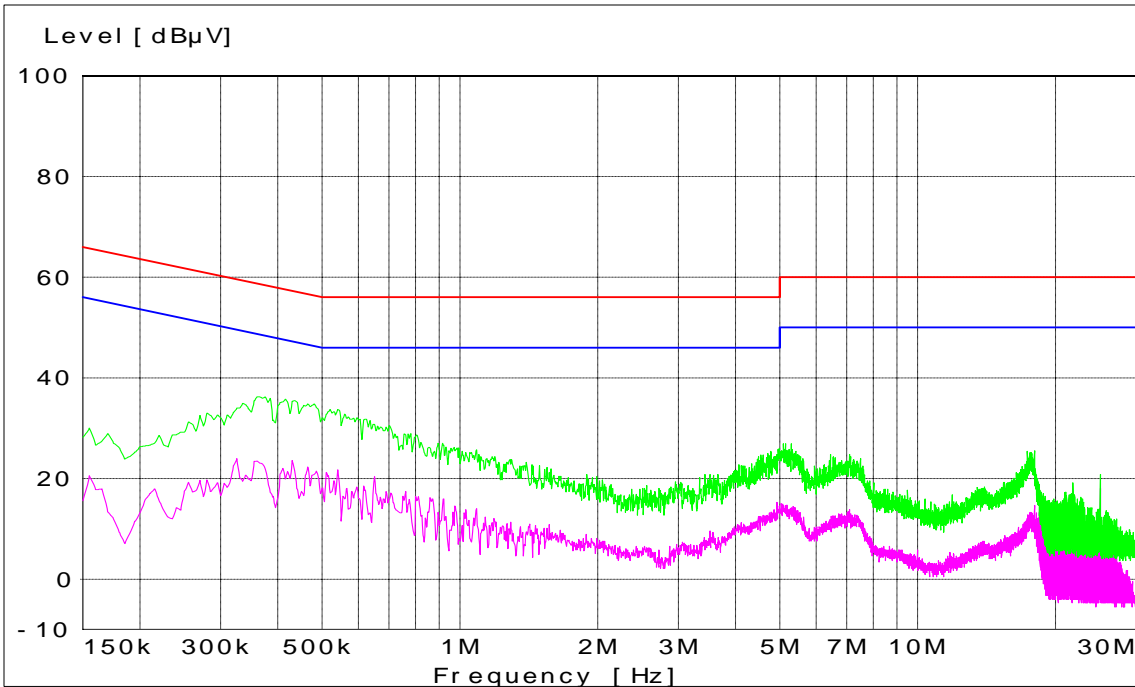
Bluetooth Channel 0 2402MHz - Tx Mode - Line Coupling Nonhopping



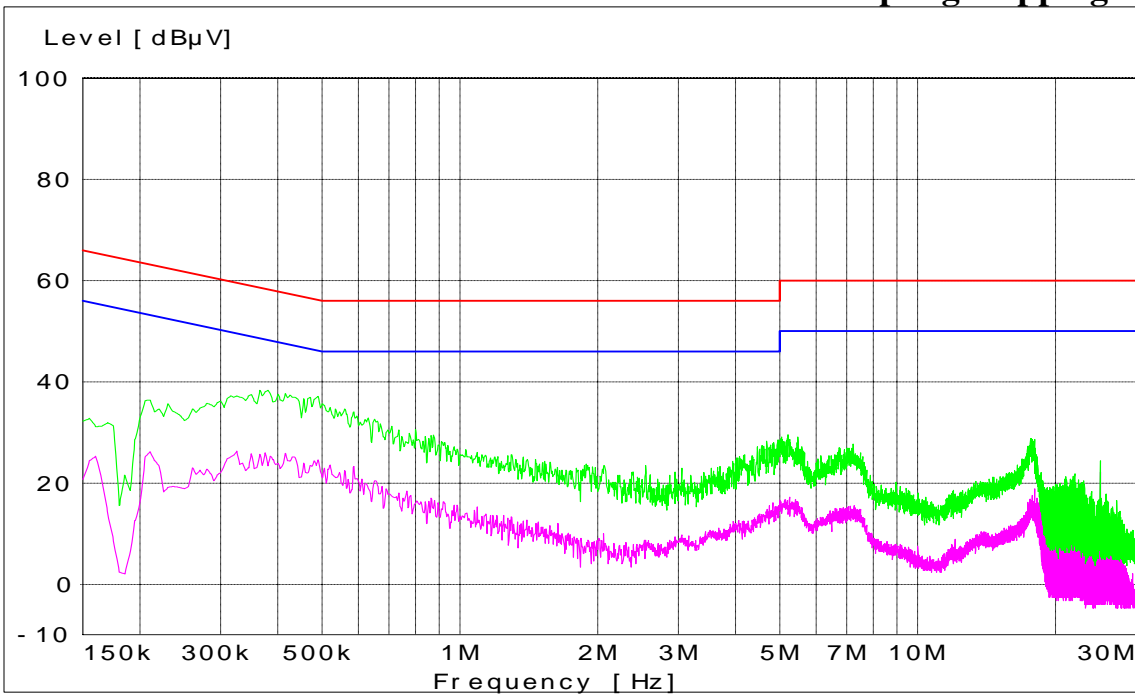
**Bluetooth Channel 39 2441MHz - Tx Mode - Line Coupling
Nonhopping**



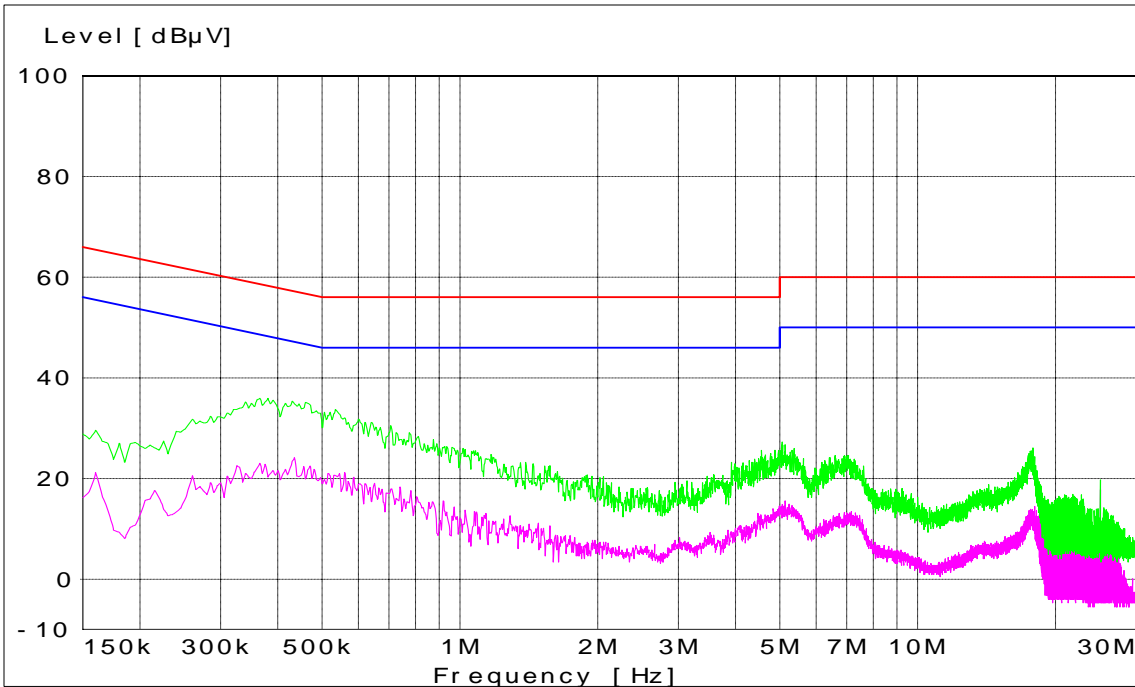
**Bluetooth Channel 39 2441MHz - Tx Mode - Neutral Coupling
Hopping**



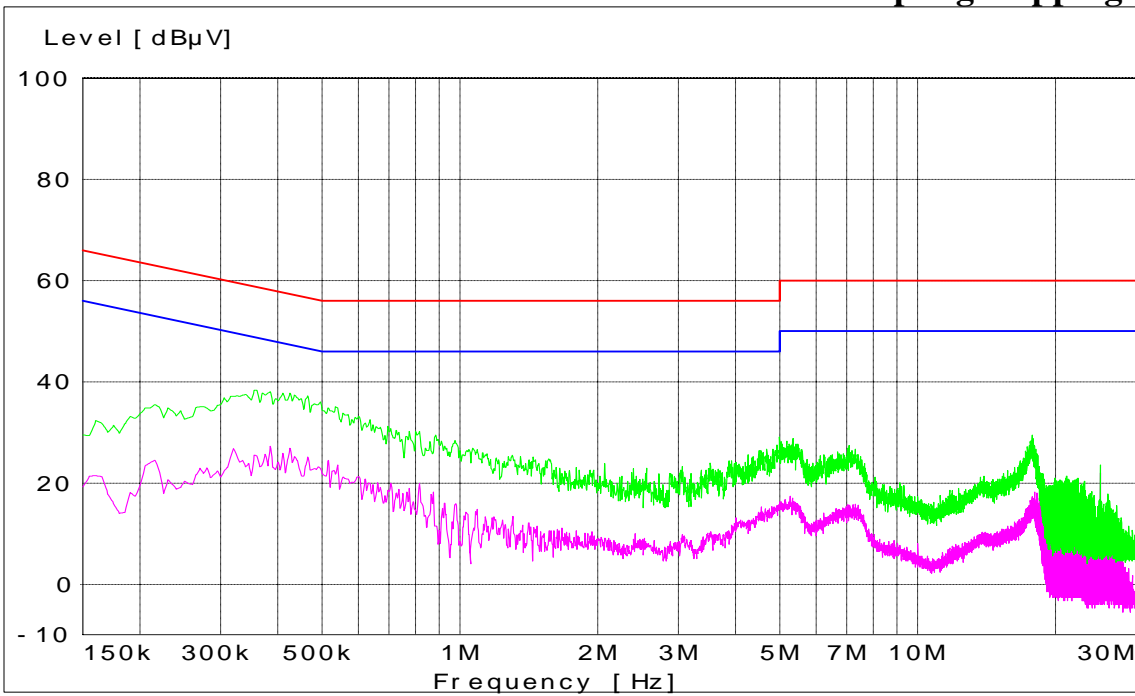
Bluetooth Channel 78 2480MHz - Tx Mode - Line Coupling Hopping



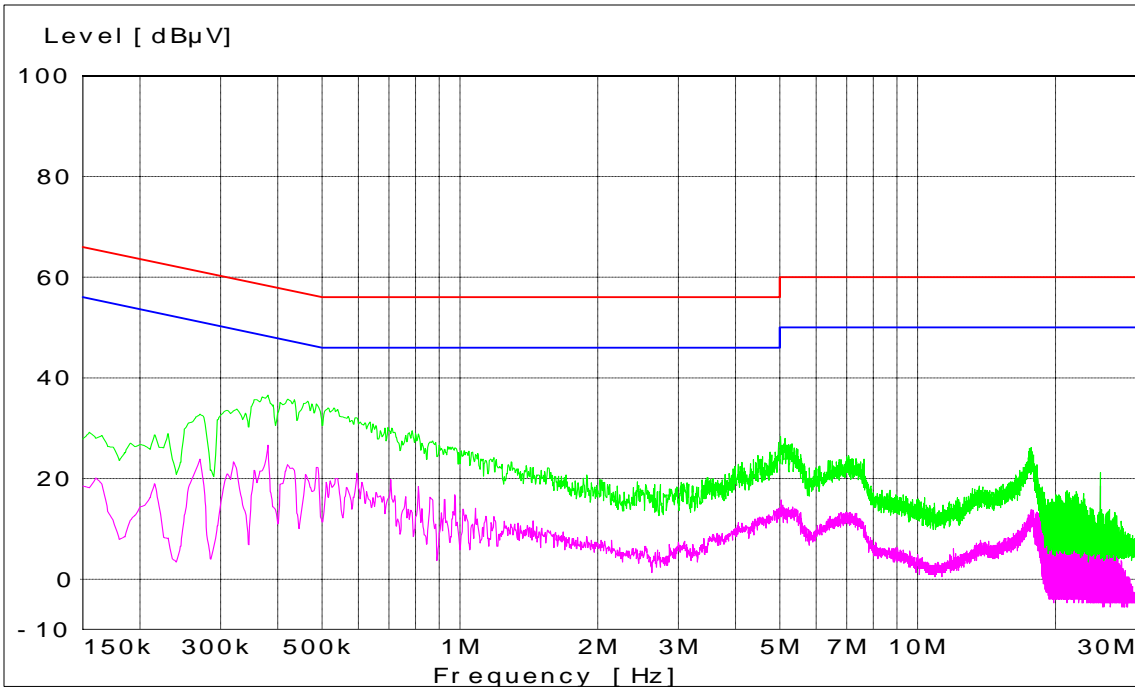
Bluetooth Channel 78 2480MHz - Tx Mode - Neutral Coupling Hopping



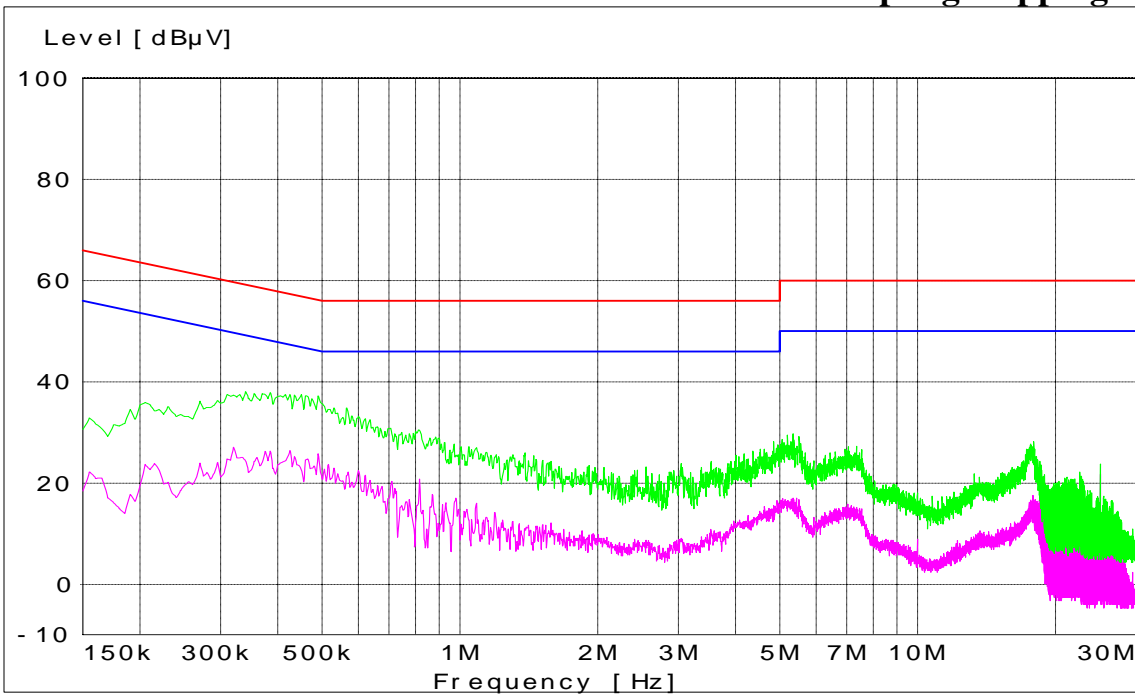
Bluetooth Channel 0 2402MHz - Tx Mode - Line Coupling Hopping



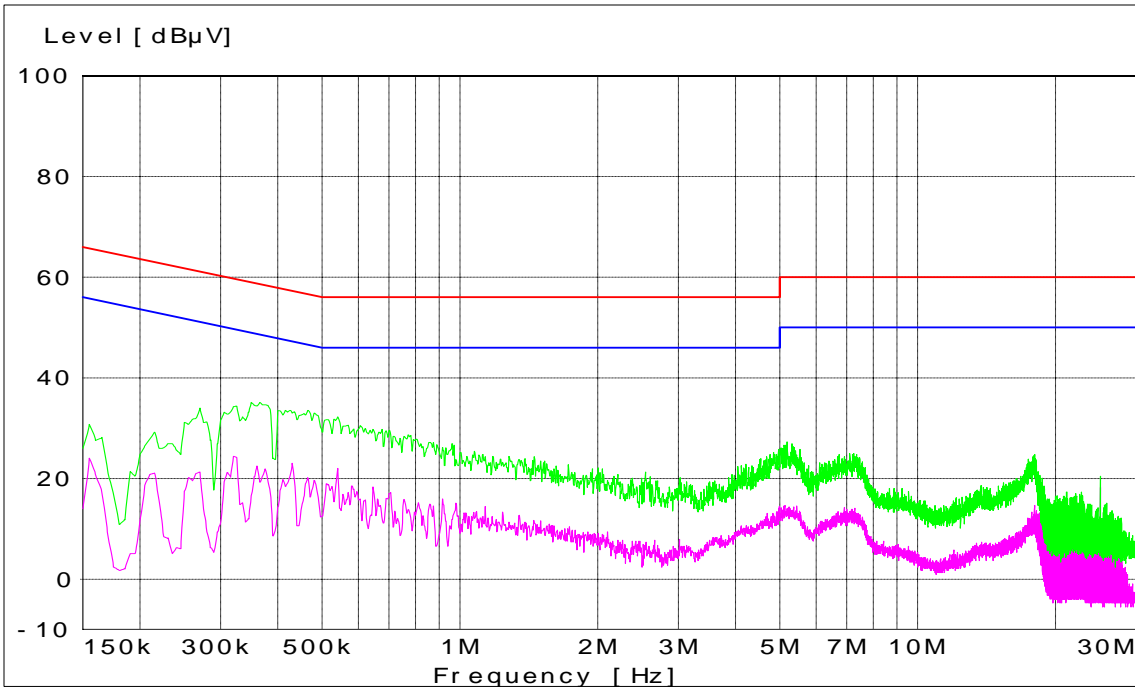
Bluetooth Channel 0 2402MHz - Tx Mode - Neutral Coupling Nonhopping



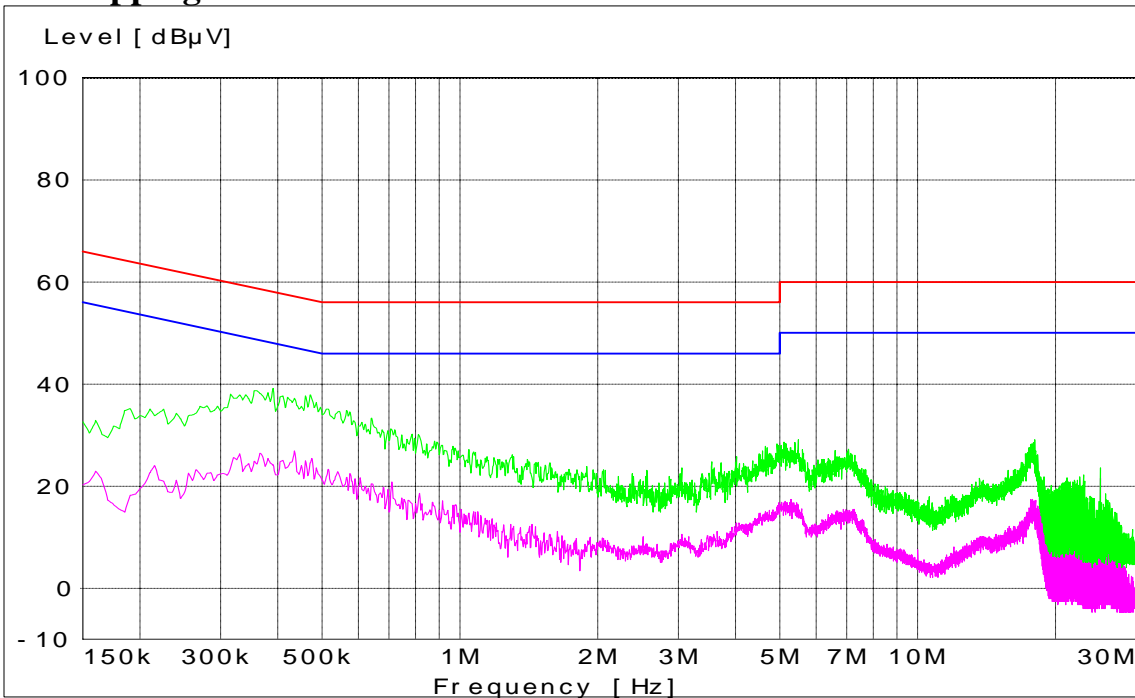
Bluetooth Channel 39 2441MHz - Tx Mode - Line Coupling Hopping



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