

FCC PART 15 SUBPART C

EMI MEASUREMENT AND TEST REPORT



For

Ambit Microsystems Corporation

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Tu Chen, Taipei Hsien 236, Taiwan, R.O.C.

FCC ID: MCLT60M665

2004-01-29

| | |
|---|---|
| This Report Concerns: <input checked="" type="checkbox"/> Permissive Change Report | Equipment Type: Bluetooth Wireless Card in Notebook PC |
| Test Engineer: Ling Zhang /  | |
| Report No.: R0401093 | |
| Test Date: 2004-01-15 | |
| Reviewed By: Ming Jing /  | |
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Note: This test report is specially limited to the above client company and product model only. It may not be duplicated without prior written consent of Bay Area Compliance Laboratory Corporation. This report **must not** be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *Ambit Microsystems Corporation's* Model: *T60M665* or the "EUT" as referred to in this report is a Wireless Card & Antenna installed in the ACER notebook PC. During the test the EUT was connected to the Hon Hai Precision Industry Co., Ltd. Antenna (model: WDAN-01DT3002). The wireless card measures approximately 2.4" L x 1.7" W x 0.1"H.

** The test data gathered are from production sample, serial number: B0032, provided by the manufacturer.*

Objective

This type approval report is prepared on behalf of *Ambit Microsystems Corporation* in accordance with Part 2, Subpart J, Part 15, Subparts A and C of the Federal Communication Commissions rules.

This is a PCII application. The original application was granted on 3/19/03. The difference between the original device and the current one is the EUT was connected with a new antenna manufactured by Hon Hai Precision Industry Co., Ltd. Please see the Antenna Specification for the detailed information.

The objective is to determine compliance with FCC rules Conducted and Spurious Radiated Emission.

Related Submittal(s)/Grant(s)

The PCII application was originally granted on 3/19/03. Please refer to BACL report R0301173 for the details of the original application.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2001, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz and FCC97114 for Direct Sequence SS.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory, Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Open Area Test site used by BACL to collect radiated and conducted emission measurement data is located in the back parking lot of the building at 230 Commercial Street, Sunnyvale, California, USA.

Test site at BACL has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports has been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2001.

The Federal Communications Commission and Voluntary Control Council for Interference has the reports on file and is listed under FCC file 31040/SIT 1300F2 and VCCI Registration No.: C-1298 and R-1234.

The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200167-0). The scope of the accreditation covers the FCC Method – 47 CFR Part – Digital Devices, CISPER 22: 1997: Electromagnetic Interference – Limits and Methods of Measurement of Information Technology Equipment test methods.

Local Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number | FCC ID |
|--------------|-------------|--------|------------------|--------------|
| ACER | Notebook PC | DT3 | QCHTU34500013 | DOC |
| HP | Printer | 2225C | N/A | DOC |
| EVEREX | Modem | EV-945 | 12006A8EX0-09A08 | E3E5UVEV-945 |

External I/O Cabling List and Details

| Cable Description | Length (M) | Port/From | To |
|------------------------|------------|---------------------------|---------|
| Shielded Printer Cable | 1.5 | Parallel Port/Notebook PC | Printer |
| Shielded Serial Cable | 1.5 | Serial Port/Notebook PC | Modem |

Power Supply Information

| Manufacturer | Description | Model | Serial Number | FCC ID |
|--------------|-------------|--------------|---------------|--------|
| LITEON | AC Adapter | PA-1181-08QA | 3X0000490A | DOC |

SYSTEM TEST CONFIGURATION

Justification

The host system was configured for testing according to ANSI C63.4-2001.

The EUT was tested in the normal (native) operating mode to represent *worst*-case results during the final qualification test.

EUT Exercise Software

The EUT exercising program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The test software, bluetest, provided by the customer, is started the Windows 98 terminal program under the Windows 98 operating system. Once started, select USB from “choose a protocol”, select TXDATA1 from “bluetest” then click execute. The process is continuous throughout all tests.

Special Accessories

As shown in following test set up block diagram, all interface cables used for compliance testing are shielded. The notebook and the peripherals featured shielded metal connectors.

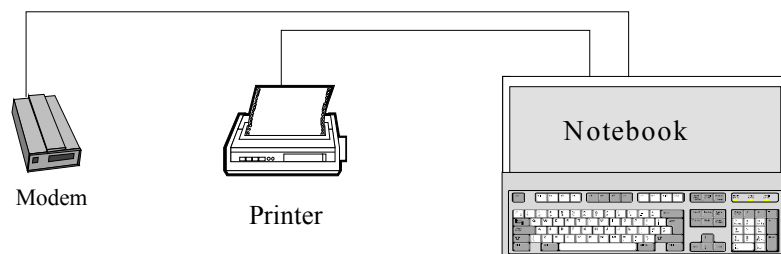
Schematics / Block Diagram

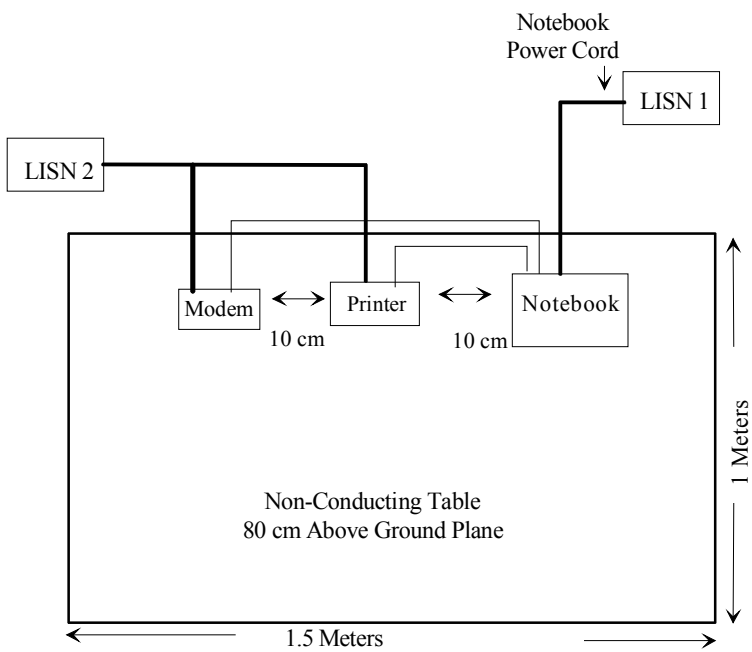
Please refer to Appendix A.

Equipment Modifications

No modifications were made to the EUT.

Configuration of Test System



Test Setup Block Diagram

SUMMARY OF TEST RESULTS

Results reported relate only to the product tested, serial number: B0032.

| FCC RULES | DESCRIPTION OF TEST | RESULT |
|----------------------|-------------------------------------|-----------|
| §15.203 | Antenna Requirement | Compliant |
| § 15.205, §15.209(a) | Restricted Bands, Radiated Emission | Compliant |
| § 15.207(a) | AC Line Conduction | Compliant |

§15.203 - ANTENNA REQUIREMENT

Standard Applicable

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

And according to § 15.247 (1), if transmitting antennas of directional gain greater than 6 dBi are used the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connected Construction

The directional gain of the antenna used for transmitting is 0.41 dBi. The antenna is installed by OET integrator.

§15.205, & §15.209(a) - SPURIOUS RADIATED EMISSION

Measurement Uncertainty

All measurements involve certain levels of uncertainties. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at BACL is ± 4.0 dB.

EUT Setup

The radiated emission tests were performed in the open area 3-meter test site, using the setup in accordance with the ANSI C63.4-2001. The specification used was the FCC 15 Subpart C limits.

The spacing between the peripherals was 10 centimeters.

External I/O cables were draped along the edge of the test table and bundle when necessary.

The notebook PC system was connected with 120Vac/60Hz power source.

Spectrum Analyzer Setup

According to FCC Rules, 47 CFR §15.33 (a) (1), the system was tested to 25GHz.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

| <i>Frequency Range</i> | <i>RBW</i> | <i>Video B/W</i> |
|-------------------------------|-------------------|-------------------------|
| Below 30MHz | 10kHz | 10kHz |
| 30 – 1000MHz | 100kHz | 100kHz |
| Above 1000MHz | 1MHz | 1MHz |

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Cal. Date |
|---------------------|----------------------|--------------|----------------------|------------------|
| HP | Spectrum Analyzer | 8568B | 2601A02165 | 2003-07-03 |
| HP | Amplifier | 8447E | 2944A10187 | 2003-09-23 |
| HP | Quasi-Peak Adapter | 85650A | 3019A05393 | 2003-06-13 |
| EMCO | Biconical Antenna | 3110B | 9309-1165 | 2003-10-11 |
| EMCO | Log Periodic Antenna | 3146 | 2101 | 2003-10-11 |
| A.H. Systems, Inc. | DRG Horn Antenna | SAS-200/571 | 261 | 2003-08-02 |

* **Statement of Traceability: BACL Corp.** certifies that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

For the radiated emissions test, the Host PC system power cord was connected to the AC floor outlet since the power supply used in the EUT did not provide an accessory power outlet.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB μ V of specification limits), and are distinguished with a "Qp" in the data table.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB μ V means the emission is 7dB μ V below the maximum limit for Subpart C. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Subpart C Limit}$$

Summary of Test Results

According to the data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.207 and 15.247, and had the worst margin of:

-13.43 dB at 7206.00 MHz in the **Vertical** polarization, Low Channel

-13.36 dB at 7323.00 MHz in the **Horizontal** polarization, Middle Channel

-13.56 dB at 7440.00 MHz in the **Vertical** polarization, High Channel

-12.53 dB at 59.75 MHz in the **Horizontal** polarization, Unintentional Emission

Environmental Conditions

| | |
|--------------------|-----------|
| Temperature: | 18° C |
| Relative Humidity: | 57% |
| ATM Pressure: | 1125 mbar |

| INDICATED | | | TABLE | ANTENNA | | CORRECTION FACTOR | | | CORRECTED AMPLITUDE | FCC 15 SUBPART C | |
|-------------------------|-----------------|-----------|-----------------|-----------------|--------------|-------------------|-------------|------------|------------------------|---------------------|--------------|
| Frequency MHz | Ampl. dBμV/m | Comments | Angle Degree | Height Meter | Polar H/V | Antenna dBμV/m | Cable DB | Amp. DB | Corr. Ampl. dBμV/m | Limit dBμV/m | Margin dB |
| Low Channel, 1 – 25 GHz | | | | | | | | | | | |
| 2402 | 97.50 | FUND/PEAK | 0 | 1.4 | V | 28.1 | 3.35 | 35.2 | 93.75 | | |
| 2402 | 89.67 | FUND/PEAK | 0 | 2.0 | H | 28.1 | 3.35 | 35.2 | 85.92 | | |
| 2402 | 96.80 | FUND/AVE | 0 | 1.4 | V | 28.1 | 3.35 | 35.2 | 93.05 | | |
| 2402 | 89.17 | FUND/AVE | 0 | 2.0 | H | 28.1 | 3.35 | 35.2 | 85.42 | | |
| 7206 | 33.33 | AVE | 100 | 1.2 | V | 35.1 | 5.65 | 33.5 | 40.58 | 54 | -13.43 |
| 7206 | 33.30 | AVE | 30 | 1.6 | H | 35.1 | 5.65 | 33.5 | 40.55 | 54 | -13.46 |
| 4804 | 32.00 | AVE | 90 | 1.2 | V | 32.5 | 4.91 | 33.0 | 36.41 | 54 | -17.59 |
| 4804 | 31.90 | AVE | 45 | 1.0 | H | 32.5 | 4.91 | 33.0 | 36.31 | 54 | -17.69 |
| 7206 | 45.83 | PEAK | 30 | 1.6 | H | 35.1 | 5.65 | 33.5 | 53.08 | 74 | -20.93 |
| 7206 | 45.67 | PEAK | 100 | 1.2 | V | 35.1 | 5.65 | 33.5 | 52.92 | 74 | -21.09 |
| 4804 | 44.50 | PEAK | 45 | 1.0 | H | 32.5 | 4.91 | 33.0 | 48.91 | 74 | -25.09 |
| 4804 | 44.33 | PEAK | 90 | 1.2 | V | 32.5 | 4.91 | 33.0 | 48.74 | 74 | -25.26 |
| Middle Channel | | | | | | | | | | | |
| 2441 | 98.50 | FUND/PEAK | 15 | 1.0 | V | 28.1 | 3.35 | 35.2 | 94.75 | | |
| 2441 | 91.50 | FUND/PEAK | 250 | 1.8 | H | 28.1 | 3.35 | 35.2 | 87.75 | | |
| 2441 | 98.00 | FUND/AVE | 15 | 1.0 | V | 28.1 | 3.35 | 35.2 | 94.25 | | |
| 2441 | 91.00 | FUND/AVE | 250 | 1.8 | H | 28.1 | 3.35 | 35.2 | 87.25 | | |
| 7323 | 33.40 | AVE | 270 | 1.8 | H | 35.1 | 5.65 | 33.5 | 40.65 | 54 | -13.36 |
| 7323 | 33.30 | AVE | 90 | 1.4 | V | 35.1 | 5.65 | 33.5 | 40.55 | 54 | -13.46 |
| 4882 | 32.10 | AVE | 30 | 1.2 | V | 32.5 | 4.91 | 33.0 | 36.51 | 54 | -17.49 |
| 4882 | 31.80 | AVE | 180 | 1.6 | H | 32.5 | 4.91 | 33.0 | 36.21 | 54 | -17.79 |
| 7323 | 46.10 | PEAK | 270 | 1.8 | H | 35.1 | 5.65 | 33.5 | 53.35 | 74 | -20.66 |
| 7323 | 45.50 | PEAK | 90 | 1.4 | V | 35.1 | 5.65 | 33.5 | 52.75 | 74 | -21.26 |
| 4882 | 44.80 | PEAK | 30 | 1.2 | V | 32.5 | 4.91 | 33.0 | 49.21 | 74 | -24.79 |
| 4882 | 44.30 | PEAK | 180 | 1.6 | H | 32.5 | 4.91 | 33.0 | 48.71 | 74 | -25.29 |
| High Channel | | | | | | | | | | | |
| 2480 | 98.67 | FUND/PEAK | 30 | 1.5 | V | 28.1 | 3.35 | 35.2 | 94.92 | | |
| 2480 | 90.83 | FUND/PEAK | 330 | 2.2 | H | 28.1 | 3.35 | 35.2 | 87.08 | | |
| 2480 | 98.00 | FUND/AVE | 30 | 1.5 | V | 28.1 | 3.35 | 35.2 | 94.25 | | |
| 2480 | 90.17 | FUND/AVE | 330 | 2.2 | H | 28.1 | 3.35 | 35.2 | 86.42 | | |
| 7440 | 33.20 | AVE | 60 | 1.5 | V | 35.1 | 5.65 | 33.5 | 40.45 | 54 | -13.56 |
| 7440 | 33.10 | AVE | 0 | 1.2 | H | 35.1 | 5.65 | 33.5 | 40.35 | 54 | -13.66 |
| 4960 | 32.30 | AVE | 0 | 1.5 | V | 32.5 | 4.91 | 33.0 | 36.71 | 54 | -17.29 |
| 4960 | 32.00 | AVE | 45 | 2.0 | H | 32.5 | 4.91 | 33.0 | 36.41 | 54 | -17.59 |
| 7440 | 46.20 | PEAK | 60 | 1.5 | V | 35.1 | 5.65 | 33.5 | 53.45 | 74 | -20.56 |
| 7440 | 45.70 | PEAK | 0 | 1.2 | H | 35.1 | 5.65 | 33.5 | 52.95 | 74 | -21.06 |
| 4960 | 45.10 | PEAK | 0 | 1.5 | V | 32.5 | 4.91 | 33.0 | 49.51 | 74 | -24.49 |
| 4960 | 44.60 | PEAK | 45 | 2.0 | H | 32.5 | 4.91 | 33.0 | 49.01 | 74 | -24.99 |

| Frequency MHz | Indicated | | Table Height Meter | Antenna | | Correction Factor | | | FCC 15 Subpart B | |
|------------------|-----------------------|---------------------|--------------------------|--------------|-------------------------|-------------------------------|------------|--------------------------------|-----------------------|--------------|
| | Ampl. dB μ V/m | Direction Degree | | Polar H/V | Antenna dB μ V/m | Cable Loss dB μ V/m | Amp. dB | Corr. Ampl. dB μ V/m | Limit dB μ V/m | Margin dB |
| 59.75 | 44.67 | 0 | 1.5 | H | 9.8 | 1.70 | 28.7 | 27.47 | 40.0 | -12.53 |
| 71.74 | 44.50 | 45 | 1.4 | H | 9.2 | 1.16 | 28.8 | 26.06 | 40.0 | -13.94 |
| 122.90 | 46.83 | 60 | 1.8 | V | 11.7 | 1.57 | 28.6 | 31.50 | 43.5 | -12.00 |
| 241.30 | 46.00 | 60 | 1.0 | H | 13.8 | 2.17 | 28.2 | 33.77 | 46.0 | -12.23 |
| 252.50 | 41.67 | 90 | 1.5 | V | 13.3 | 2.17 | 27.8 | 29.34 | 46.0 | -16.66 |
| 432.10 | 42.80 | 330 | 1.6 | H | 16.9 | 2.79 | 28.3 | 34.19 | 46.0 | -11.81 |
| 480.10 | 43.17 | 270 | 1.5 | V | 18.3 | 3.10 | 28.9 | 35.67 | 46.0 | -10.33 |

Note:

AVG = average

§15.207(a) - CONDUCTED EMISSIONS

Measurement Uncertainty

All measurements involve certain levels of uncertainties. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at BACL is ± 2.4 dB.

EUT Setup

The measurement was performed in the shielded room, using the same setup per ANSI C63.4-2001 measurement procedure. The specification used was FCC 15 Subpart C limits.

The spacing between the peripherals was 10 centimeters.

External I/O cables were draped along the edge of the test table and bundle when necessary.

The notebook PC system was connected with 120Vac/60Hz power source.

Spectrum Analyzer Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30Mhz.

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Cal. Date |
|-----------------|-------------------|---------|---------------|------------|
| Rohde & Schwarz | Artificial LISN | ESH2-Z5 | 871884/039 | 2003-03-28 |
| Rohde & Schwarz | EMI Test Receiver | ESCS30 | 100176 | 2003-05-06 |

* **Statement of Traceability:** BACL Corp. certifies that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

During the conducted emission test, the power cord of the host system was connected to the auxiliary outlet of the first LISN.

Maximizing procedure was performed on the six (6) highest emissions of each modes tested to ensure EUT is compliant with all installation combination.

All data was recorded in the peak detection mode. Quasi-peak readings were only performed when an emission was found to be marginal (within -4 dB μ V of specification limits). Quasi-peak readings are distinguished with a "Qp".

Summary of Test Results

According to the data in following table, the EUT complies with the FCC Conducted margin for a Class B device, with the *worst* margin reading of:

-17.4 dB μ V at 4.41 MHz in the Neutral mode

Conducted Emissions Test Data

Environmental Conditions

| | |
|--------------------|-----------|
| Temperature: | 18° C |
| Relative Humidity: | 57% |
| ATM Pressure: | 1125 mbar |

| LINE CONDUCTED EMISSIONS | | | | FCC PART 15 CLASS B | |
|--------------------------|-------------------------|-------------------------|-----------------------|---------------------|--------------|
| Frequency MHz | Amplitude dB μ V | Detector Qp/Ave/Peak | Phase Line/Neutral | Limit dB μ V | Margin dB |
| 4.41 | 38.60 | QP | Neutral | 56 | -17.40 |
| 0.15 | 37.80 | AVG | Line | 56 | -18.20 |
| 0.15 | 43.60 | QP | Line | 66 | -22.40 |
| 4.41 | 22.80 | AVG | Neutral | 46 | -23.20 |
| 4.08 | 32.20 | QP | Neutral | 56 | -23.80 |
| 0.4 | 23.70 | AVG | Line | 47.9 | -24.15 |
| 4.08 | 21.70 | AVG | Neutral | 46 | -24.30 |
| 0.15 | 41.40 | QP | Neutral | 66 | -24.60 |
| 21.8 | 25.00 | AVG | Line | 50 | -25.00 |
| 0.405 | 31.80 | QP | Line | 57.8 | -25.95 |
| 0.19 | 27.50 | AVG | Neutral | 54 | -26.54 |
| 21.6 | 29.80 | QP | Line | 60 | -30.20 |

Plot of Conducted Emissions Test Data

Plot(s) of Conducted Emissions Test Data is presented hereinafter as reference.

Bay Area Compliance Laboratory Corp Class B

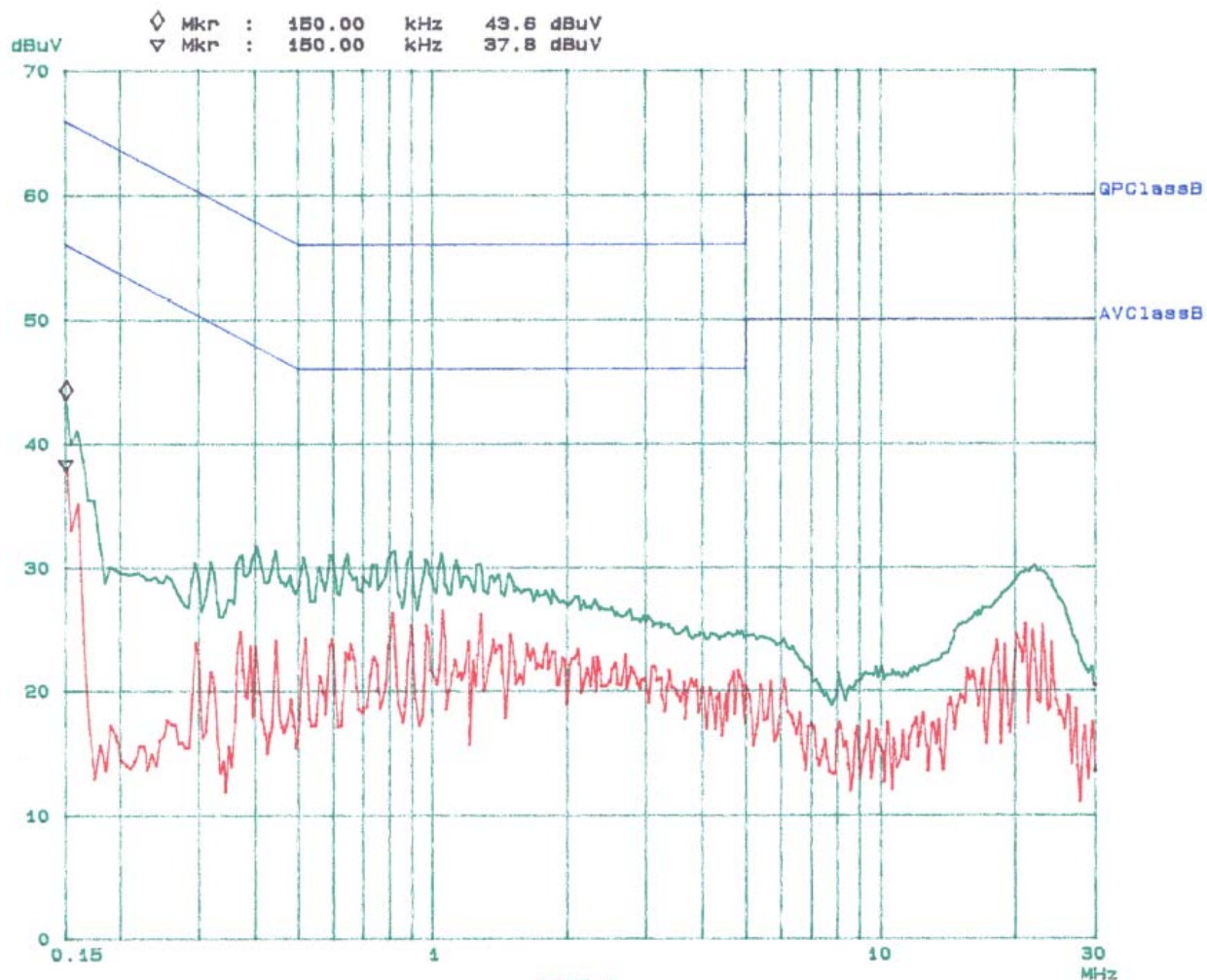
15. Jan 04 15:49

EUT: AMBIT
Manuf: T60M665
Op Cond: Normal
Operator: LING
Comment: L

Scan Settings (3 Ranges)

| Frequencies | | | Receiver Settings | | | |
|-------------|------|------|-------------------|----------|--------|--------------|
| Start | Stop | Step | IF BW | Detector | M-Time | Atten Preamp |
| 150k | 1M | 5k | 9k | QP+AV | 20ms | 15dB LN OFF |
| 1M | 5M | 10k | 9k | QP+AV | 1ms | 15dB LN OFF |
| 5M | 30M | 100k | 9k | QP+AV | 1ms | 15dB LN OFF |

Final Measurement: x QP / + AV
Meas Time: 1 s
Subranges: 25
Acc Margin: 6dB



Bay Area Compliance Laboratory Corp
Class B

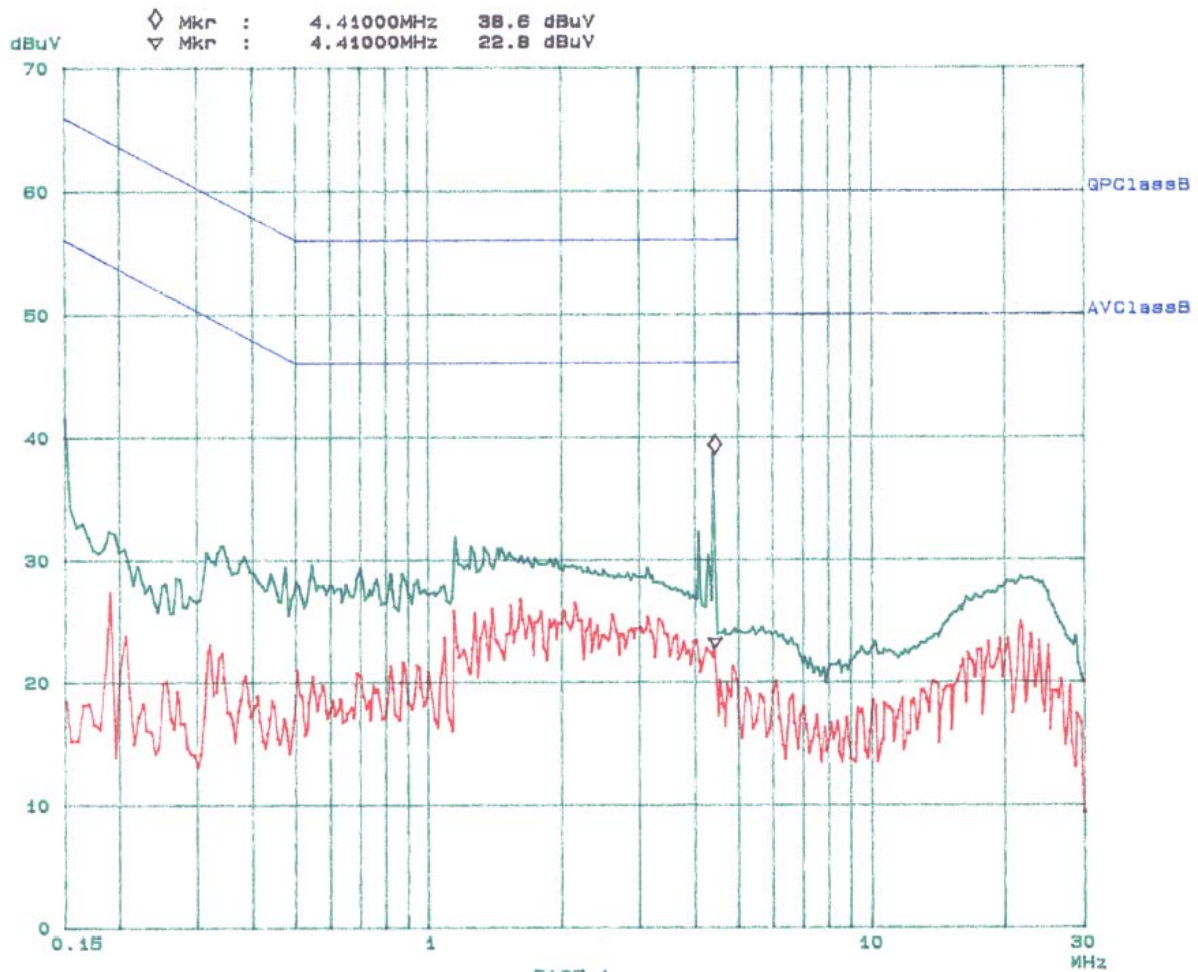
15. Jan 04 15:29

EUT: AMBIT
Manuf: T60M665
Op Cond: Normal
Operator: LING
Comment: N

Scan Settings (3 Ranges)

| Frequencies | | | Receiver Settings | | | | |
|-------------|------|------|-------------------|----------|--------|---------|--------|
| Start | Stop | Step | IF BW | Detector | M-Time | Atten | Preamp |
| 150k | 1M | 5k | 9k | QP+AV | 20ms | 15dB LN | OFF |
| 1M | 5M | 10k | 9k | QP+AV | 1ms | 15dB LN | OFF |
| 5M | 30M | 100k | 9k | QP+AV | 1ms | 15dB LN | OFF |

Final Measurement: x QP / + AV
Meas Time: 1 s
Subranges: 25
Acc Margin: 6dB



204-1-15