



Test Report

Product Name : Cordless Keyboard

Model No. : Y-RBH94

FCC ID : JNZYRBH94

Applicant : Logitech Far East Ltd.

Address : #2 Creation Rd.4, Science-Based Ind. Park Hsinchu
Taiwan, R.O.C.

Date of Receipt : 2007/10/24

Issued Date : 2007/11/01

Report No. : 07BS005-RF-US-P03V01

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by CNLA, NVLAP, NIST or any agency of the Government.

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Test Report Certification

Issued Date : 2007/11/01

Report No. : 07BS005-RF-US-P03V01




Product Name : Cordless Keyboard
Applicant : Logitech Far East Ltd.
Address : #2 Creation Rd.4, Science-Based Ind.Park Hsinchu
Taiwan,R.O.C.
Manufacturer : (1) Logitech Far East Ltd.
(2) Logitech Technology (Suzhou) Co., Ltd.
Model No. : Y-RBH94
FCC ID : JNZYRBH94
Rated Voltage : AC 120V/ 60Hz
EUT Voltage : DC 3V (Power by Battery)
Trade Name : Logitech
Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2007
ANSI C63.4: 2003
Test Result : Complied
Performed Location : SuZhou EMC laboratory
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FCC Registration Number: 800392

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Laboratory Information

We , **QuietTek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited by the following accreditation Bodies in compliance with ISO 17025, EN 45001 and Guide 25:

| | |
|---------------|-------------------|
| Taiwan R.O.C. | : BSMI, DGT, CNLA |
| Germany | : TÜV Rheinland |
| Norway | : Nemko, DNV |
| USA | : FCC, NVLAP |
| Japan | : VCCI |

The related certificate for our laboratories about the test site and management system can be downloaded from QuietTek Corporation's Web Site : <http://tw.quietek.com/modules/myalbum/>
 The address and introduction of QuietTek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>
 If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

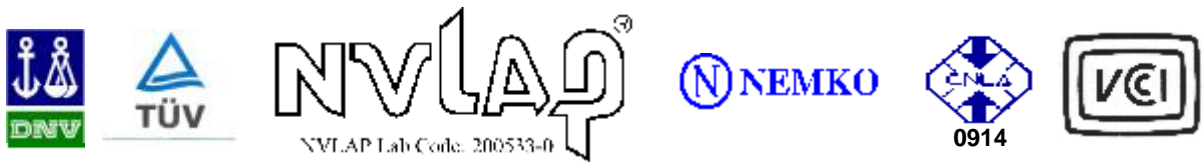
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1. General Information

1.1. EUT Description

| | |
|--------------------|-----------------------|
| Product Name | Cordless Keyboard |
| Trade Name | Logitech |
| Model No. | Y-RBH94 |
| FCC ID | JNZYRBH94 |
| Working Voltage | DC 3V |
| Frequency Range | 27.095MHz - 27.145MHz |
| Channel Number | 2 |
| Type of Modulation | FSK |
| Channel Control | Manual |
| Antenna type | Loop Antenna |
| Antenna Gain | 0dBi |

Working Frequency of Each Channel:

| Channel | Frequency |
|---------|-----------|
| 1 | 27.095MHz |
| 2 | 27.145MHz |

Note:

1. This device is a Cordless Keyboard.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.227.
3. Regards to the frequency band operation; the highest rate that was included the lowest and highest frequency of channel were selected to perform the test, and then shown on this report.

1.3. Mode of Operation

Quietek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

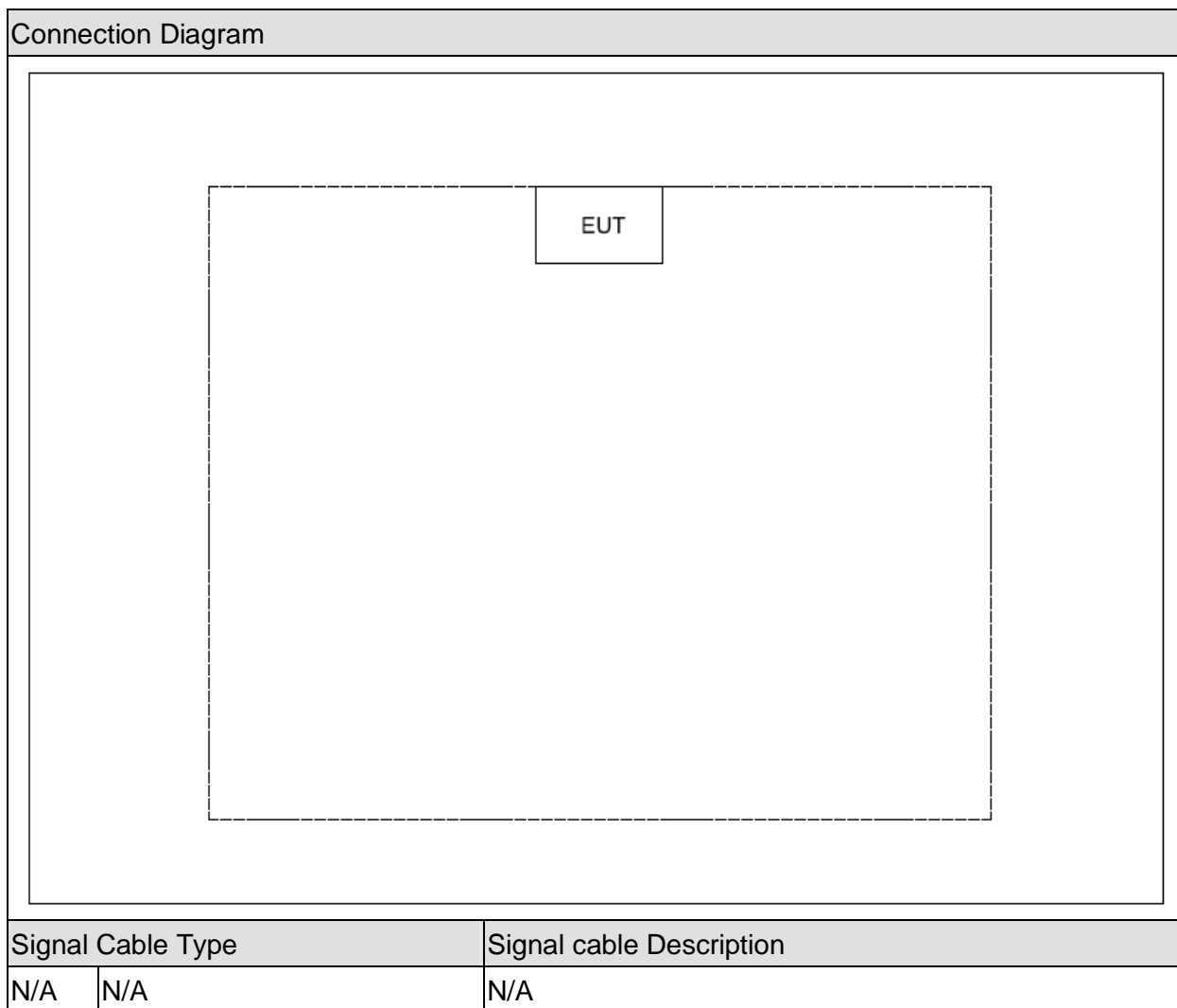
| Test Mode |
|---|
| Mode 1: Continuance transmission on channel 1 (27.095MHz) |
| Mode 2: Continuance transmission on channel 2 (27.145MHz) |

1.4. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product | | Manufacturer | Model No. | Serial No. | Power Cord |
|---------|-----|--------------|-----------|------------|------------|
| 1 | N/A | N/A | N/A | N/A | N/A |

1.5. Configuration of Tested System



1.6. EUT Exercise Software

| | |
|---|---|
| 1 | Setup the EUT as shown above. |
| 2 | Set the wireless keyboard work on continuously transmission on channel 1(27.095MHz), and then on channel 2 (27.145MHz), test them respectively. |

2. Technical Test

2.1. Summary of Test Result

- No deviations from the test standards
- Deviations from the test standards as below description:

| Performed Test Item | Normative References | Test Performed | Deviation |
|---------------------|---|----------------|-----------|
| Conducted Emission | FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.207 | N/A | N/A |
| Radiated Emission | FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.209 and 15.227 | Yes | No |
| Occupied Bandwidth | FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.215(c) | Yes | No |

2.2. Test Environment

| Items | Required (IEC 68-1) | Actual |
|----------------------------|---------------------|----------|
| Temperature (°C) | 15-35 | 21 |
| Humidity (%RH) | 25-75 | 50 |
| Barometric pressure (mbar) | 860-1060 | 950-1000 |

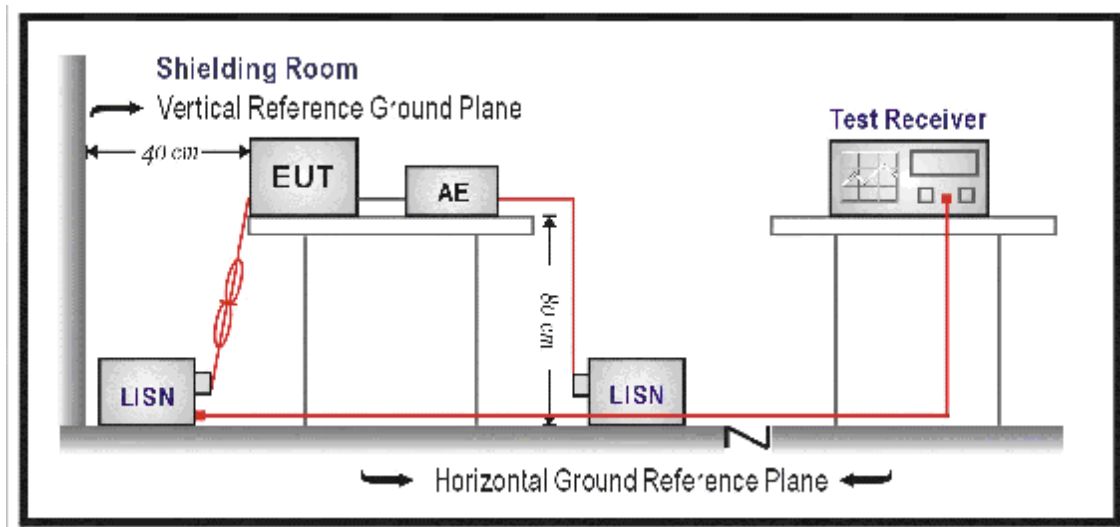
3. Conducted Emission

3.1. Test Equipment

Conducted Emission / SR-1

| Instrument | Manufacturer | Type No. | Serial No | Cal. Date |
|----------------------------|--------------|----------|------------|------------|
| EMI Test Receiver | R&S | ESCI | 100176 | 2006/11/22 |
| Two-Line V-Network | R&S | ENV216 | 100013 | 2006/11/20 |
| Two-Line V-Network | R&S | ENV216 | 100014 | 2006/11/20 |
| 50ohm Coaxial Switch | ANRITSU | MP59B | 6200464462 | 2006/11/25 |
| 50ohm Termination | SHX | 50ohml | QT-IM001 | 2007/03/20 |
| Coaxial Cable | Luthi | RG214 | 519358 | 2006/11/25 |
| Temperature/Humidity Meter | zhicheng | ZC1-2 | QT-TH004 | 2007/03/31 |

3.2. Test Setup



3.3. Limit

| FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV) | | |
|---|------------------|------------------|
| Frequency (MHz) | QP (dBuV) | AV (dBuV) |
| 0.15 - 0.50 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |

Remarks: In the above table, the tighter limit applies at the band edges.

3.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

(Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Uncertainty

The measurement uncertainty is defined as ± 2.02 dB

3.6. Test Result

EUT is a DC (3V) power device, so the test item is not necessary performed.

4. Radiated Emission

4.1. Test Equipment

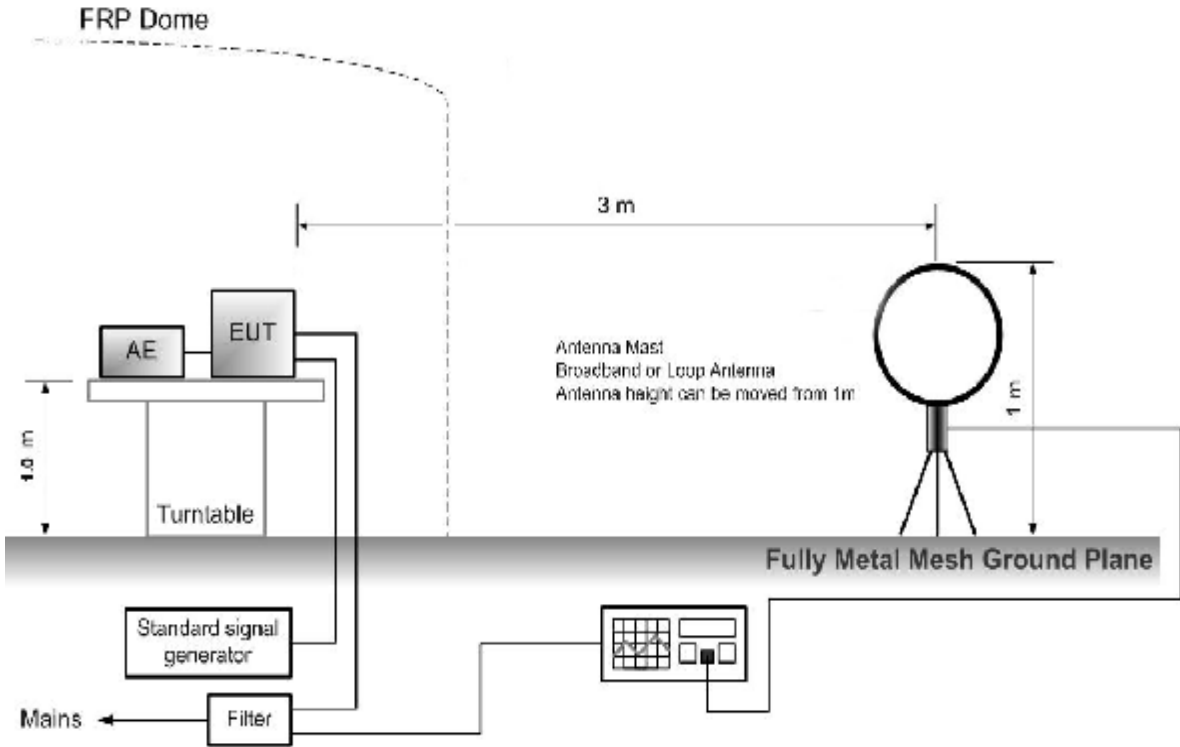
Radiated Emission / AC-2

| Instrument | Manufacturer | Type No. | Serial No | Cal. Date |
|----------------------------|--------------|-----------|-------------|------------|
| Spectrum Analyzer | Agilent | E4408B | MY45102679 | 2006/11/20 |
| EMI Test Receiver | R&S | ESCI | 100573 | 2007/05/23 |
| Preamplifier | Quietek | AP-025C | QT-AP003 | 2006/11/25 |
| Preamplifier | Quietek | AP-180C | CHM-0602013 | 2006/11/25 |
| Loop Antenna | R&S | HFH2-Z2 | 833799/0003 | 2007/08/13 |
| Bilog Type Antenna | Schaffner | CBL6112B | 2932 | 2006/11/22 |
| *Broad-Band Horn Antenna | Schwarzbeck | BBHA9120D | 496 | 2006/11/25 |
| 50ohm Coaxial Switch | ANRITSU | MP59B | 6200447304 | 2006/11/25 |
| Coaxial Cable | Huber+Suhner | AC2-C | 04 | 2006/11/25 |
| Temperature/Humidity Meter | zhicheng | ZC1-2 | QT-TH002 | 2007/03/30 |

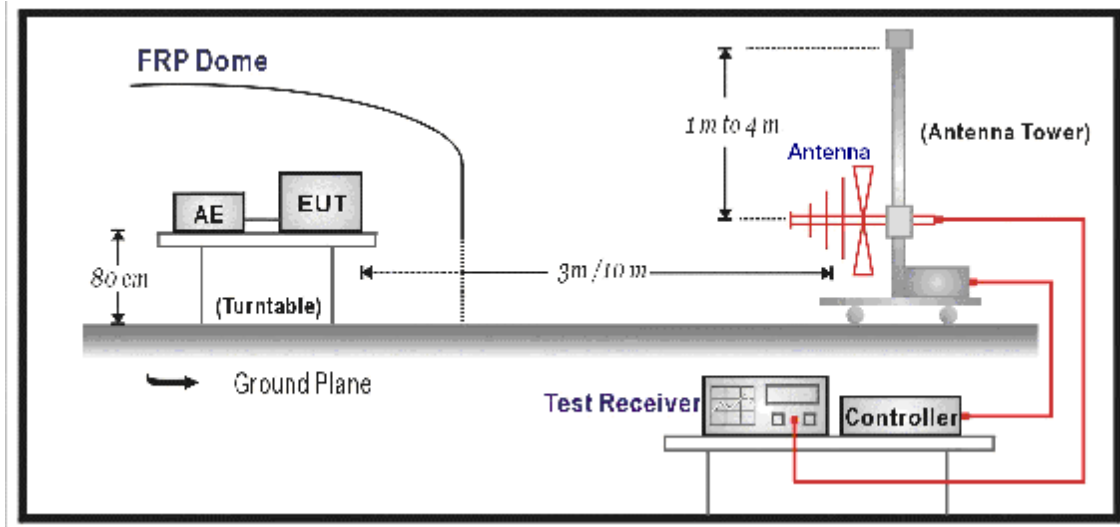
Note: "*" means the test device calibration period for two years.

4.2. Test Setup

For Fundamental Emission Test Setup



For Unwanted Emission Test Setup



4.3. Limit

- (1) The field strength of any emission within this band shall not exceed 10,000 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in Section 15.35 of FCC standard for limiting peak emissions apply.

| FCC Part 15 Subpart C Paragraph 15.227 Limits (dBuV/m) | | |
|--|--------------|--------|
| Frequency (MHz) | Distance (m) | dBuV/m |
| 26.96-27.28 | 3 | 80 |

(2) The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits as following table.

| FCC Part 15 Subpart C Paragraph 15.209 Limits (dBuV/m) | | |
|---|--------------|--------|
| Frequency (MHz) | Distance (m) | dBuV/m |
| 30 - 88 | 3 | 40 |
| 88 - 216 | 3 | 43.5 |
| 216 - 960 | 3 | 46 |
| Above 960 | 3 | 54 |

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. RF Voltage (dBuV/m) = 20 log RF Voltage (uV/m)

4.4. Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level and the antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement.

The bandwidth between 30MHz-1GHz setting on the field strength meter (R&S Test Receiver ESCI) is 120 kHz and 9 kHz for below 30MHz.

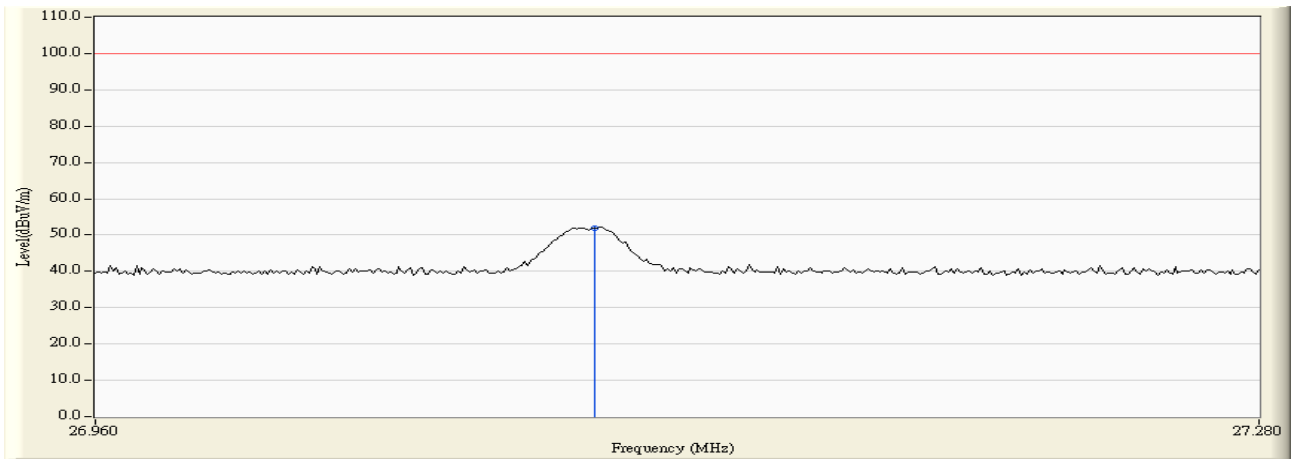
The frequency range from 30MHz to 10th harmonic is checked.

4.5. Uncertainty

The measurement uncertainty under 1G is defined as ± 3.8 dB

4.6. Test Result

| | |
|------------------------------------|--|
| Engineer : Marlin | |
| Site : AC-2 (Radiated Emission) | Time : 2007/10/26 - 02:41 |
| Limit : FCC_SpartC_15.227_F_03M_PK | Margin : 0 |
| EUT : Cordless Keyboard | Probe : HFH2-Z2 |
| Power : DC 3V(Power by Battery) | Note : Mode 1: Continuance transmission on channel 1 (27.095MHz) |

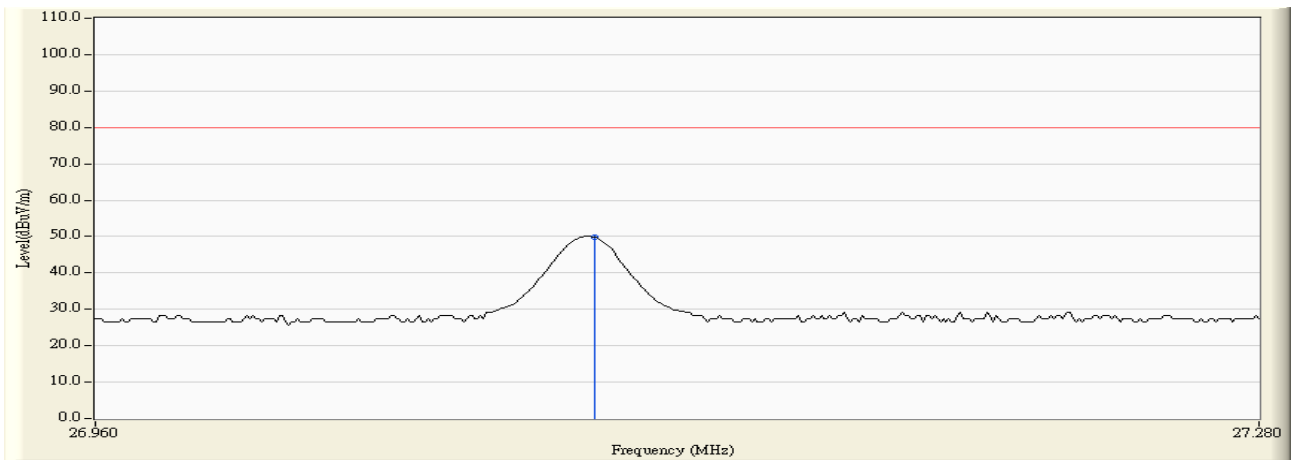


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 27.097 | 21.410 | 30.637 | 52.047 | -47.953 | 100.000 | PEAK |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

| | |
|------------------------------------|--|
| Engineer : Marlin | |
| Site : AC-2 (Radiated Emission) | Time : 2007/10/26 - 02:41 |
| Limit : FCC_SpartC_15.227_F_03M_AV | Margin : 0 |
| EUT : Cordless Keyboard | Probe : HFH2-Z2 |
| Power : DC 3V(Power by Battery) | Note : Mode 1: Continuance transmission on channel 1 (27.095MHz) |

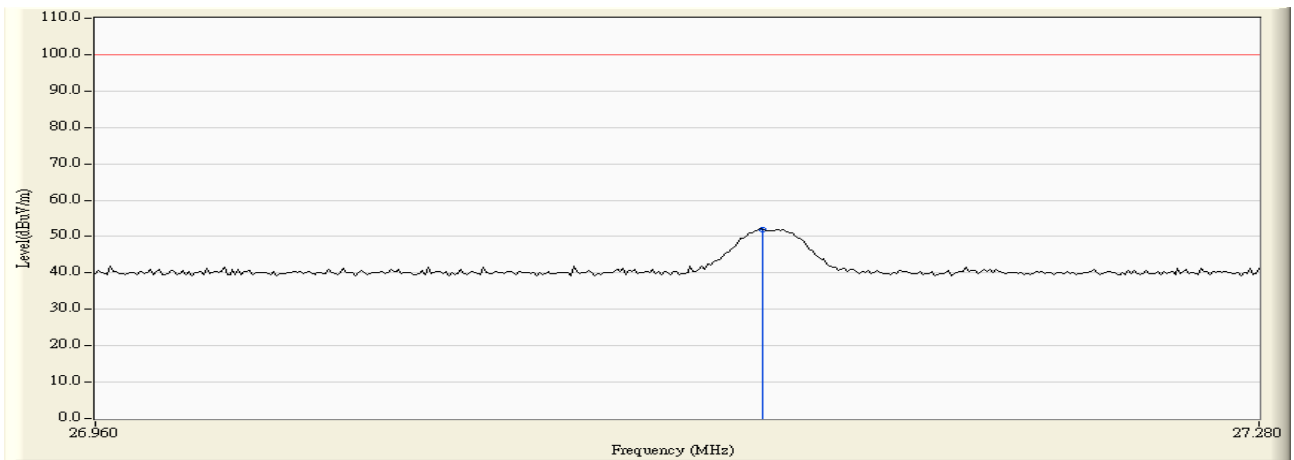


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 27.097 | 21.410 | 28.357 | 49.767 | -30.233 | 80.000 | AVERAGE |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

| | |
|------------------------------------|--|
| Engineer : Marlin | |
| Site : AC-2 (Radiated Emission) | Time : 2007/10/26 - 02:44 |
| Limit : FCC_SpartC_15.227_F_03M_PK | Margin : 0 |
| EUT : Cordless Keyboard | Probe : HFH2-Z2 |
| Power : DC 3V(Power by Battery) | Note : Mode 2: Continuance transmission on channel 2 (27.145MHz) |

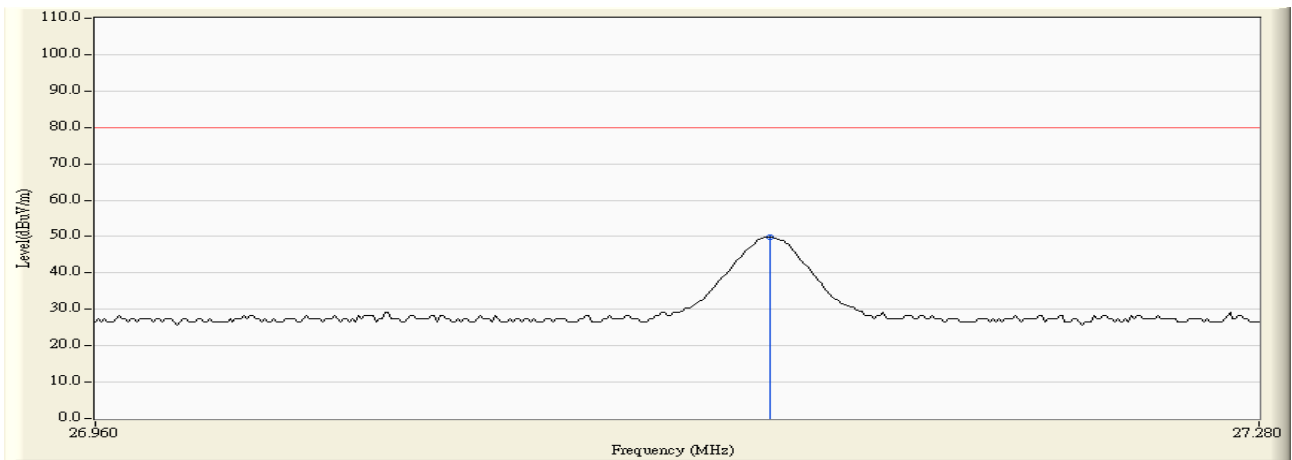


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 27.143 | 21.410 | 30.631 | 52.041 | -47.959 | 100.000 | PEAK |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

| | |
|------------------------------------|--|
| Engineer : Marlin | |
| Site : AC-2 (Radiated Emission) | Time : 2007/10/26 - 02:45 |
| Limit : FCC_SpartC_15.227_F_03M_AV | Margin : 0 |
| EUT : Cordless Keyboard | Probe : HFH2-Z2 |
| Power : DC 3V(Power by Battery) | Note : Mode 2: Continuance transmission on channel 2 (27.145MHz) |

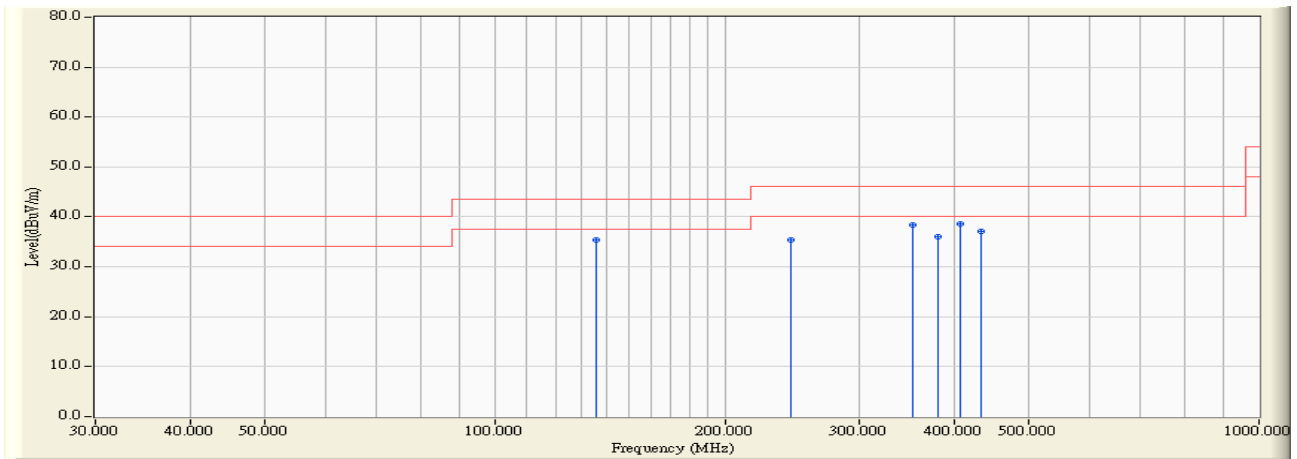


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | * | 27.145 | 21.410 | 28.456 | 49.866 | -30.134 | 80.000 | AVERAGE |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

| | |
|---------------------------------------|--|
| Engineer : Marlin | |
| Site : AC-2 (Radiated Emission) | Time : 2007/10/25 - 09:16 |
| Limit : FCC_SpartC_15.209_03M_QP | Margin : 6 |
| EUT : Wireless Keyboard (M/N: Parrot) | Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL |
| Power : DC 3V(Power by Battery) | Note : Mode 1: Continuance transmission on channel 1 (27.095MHz) |

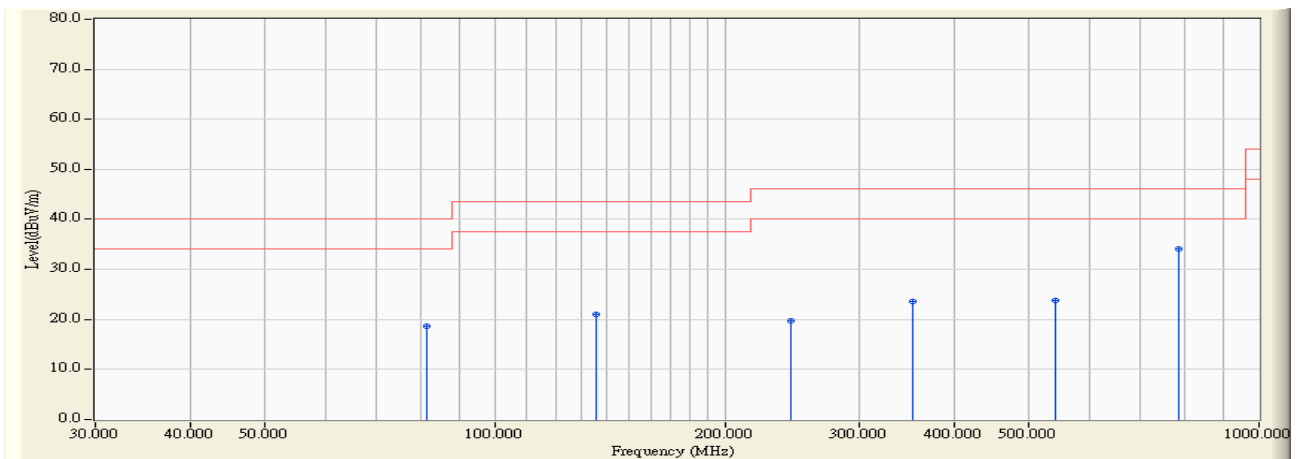


| | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | 135.475 | -9.503 | 44.900 | 35.397 | -8.123 | 43.520 | QUASIPeAK |
| 2 | 243.875 | -8.831 | 44.200 | 35.369 | -10.651 | 46.020 | QUASIPeAK |
| 3 | 352.275 | -5.038 | 43.500 | 38.462 | -7.558 | 46.020 | QUASIPeAK |
| 4 | 379.325 | -4.354 | 40.300 | 35.946 | -10.074 | 46.020 | QUASIPeAK |
| 5 | * 406.400 | -3.135 | 41.800 | 38.665 | -7.355 | 46.020 | QUASIPeAK |
| 6 | 433.550 | -2.795 | 39.800 | 37.004 | -9.016 | 46.020 | QUASIPeAK |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

| | |
|---------------------------------------|--|
| Engineer : Marlin | |
| Site : AC-2 (Radiated Emission) | Time : 2007/10/25 - 09:22 |
| Limit : FCC_SpartC_15.209_03M_QP | Margin : 6 |
| EUT : Wireless Keyboard (M/N: Parrot) | Probe : CBL6112B_2932(30-2000MHz) - VERTICAL |
| Power : DC 3V(Power by Battery) | Note : Mode 1: Continuance transmission on channel 1 (27.095MHz) |

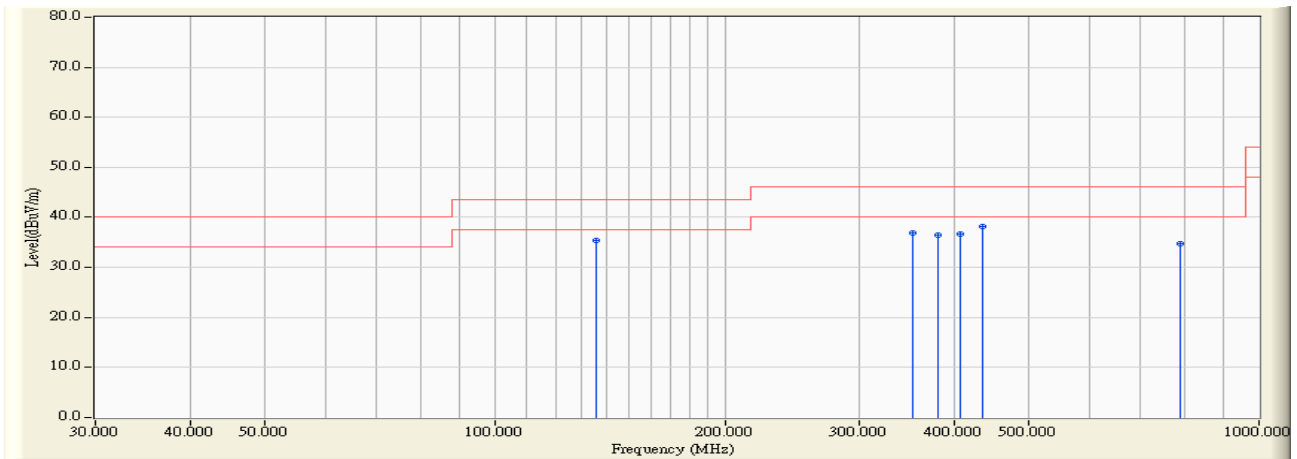


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | | 81.275 | -13.988 | 32.600 | 18.612 | -21.388 | 40.000 | QUASIPeAK |
| 2 | | 135.475 | -9.503 | 30.600 | 21.097 | -22.423 | 43.520 | QUASIPeAK |
| 3 | | 243.875 | -8.831 | 28.600 | 19.769 | -26.251 | 46.020 | QUASIPeAK |
| 4 | | 352.225 | -5.039 | 28.700 | 23.661 | -22.359 | 46.020 | QUASIPeAK |
| 5 | | 541.850 | -0.342 | 24.100 | 23.758 | -22.262 | 46.020 | QUASIPeAK |
| 6 | * | 785.825 | 1.782 | 32.300 | 34.082 | -11.938 | 46.020 | QUASIPeAK |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

| | |
|---------------------------------------|--|
| Engineer : Marlin | |
| Site : AC-2 (Radiated Emission) | Time : 2007/10/25 - 09:35 |
| Limit : FCC_SpartC_15.209_03M_QP | Margin : 6 |
| EUT : Wireless Keyboard (M/N: Parrot) | Probe : CBL6112B_2932(30-2000MHz) - HORIZONTAL |
| Power : DC 3V(Power by Battery) | Note : Mode 2: Continuance transmission on channel 2 (27.145MHz) |

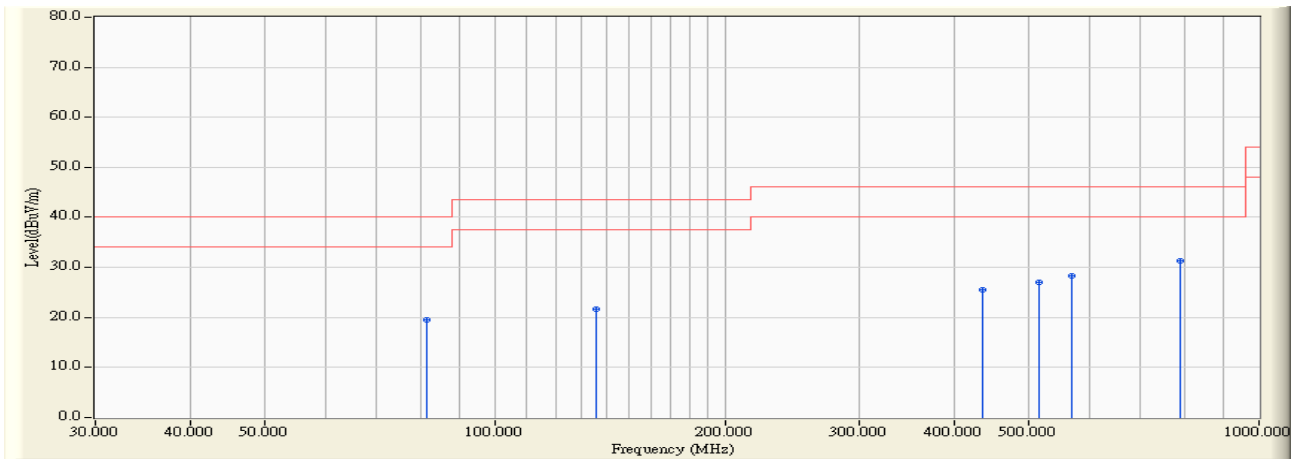


| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | | 135.725 | -9.517 | 44.900 | 35.383 | -8.137 | 43.520 | QUASIPeAK |
| 2 | | 352.875 | -5.025 | 41.900 | 36.874 | -9.146 | 46.020 | QUASIPeAK |
| 3 | | 380.025 | -4.336 | 40.900 | 36.564 | -9.456 | 46.020 | QUASIPeAK |
| 4 | | 407.150 | -3.104 | 39.800 | 36.696 | -9.324 | 46.020 | QUASIPeAK |
| 5 | * | 434.350 | -2.771 | 41.000 | 38.229 | -7.791 | 46.020 | QUASIPeAK |
| 6 | | 787.100 | 1.790 | 32.900 | 34.690 | -11.330 | 46.020 | QUASIPeAK |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

| | |
|---------------------------------------|--|
| Engineer : Marlin | |
| Site : AC-2 (Radiated Emission) | Time : 2007/10/25 - 09:47 |
| Limit : FCC_SpartC_15.209_03M_QP | Margin : 6 |
| EUT : Wireless Keyboard (M/N: Parrot) | Probe : CBL6112B_2932(30-2000MHz) - VERTICAL |
| Power : DC 3V(Power by Battery) | Note : Mode 2: Continuance transmission on channel 2 (27.145MHz) |



| | | Frequency (MHz) | Correct Factor (dB) | Reading Level (dBuV) | Measure Level (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Detector Type |
|---|---|-----------------|---------------------|----------------------|------------------------|-------------|----------------|---------------|
| 1 | | 81.450 | -13.951 | 33.500 | 19.549 | -20.451 | 40.000 | QUASPEAK |
| 2 | | 135.775 | -9.520 | 31.200 | 21.681 | -21.839 | 43.520 | QUASPEAK |
| 3 | | 434.275 | -2.772 | 28.300 | 25.527 | -20.493 | 46.020 | QUASPEAK |
| 4 | | 515.725 | -1.324 | 28.400 | 27.076 | -18.944 | 46.020 | QUASPEAK |
| 5 | | 570.000 | 0.334 | 27.900 | 28.234 | -17.786 | 46.020 | QUASPEAK |
| 6 | * | 787.225 | 1.790 | 29.600 | 31.390 | -14.630 | 46.020 | QUASPEAK |

Note:

1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

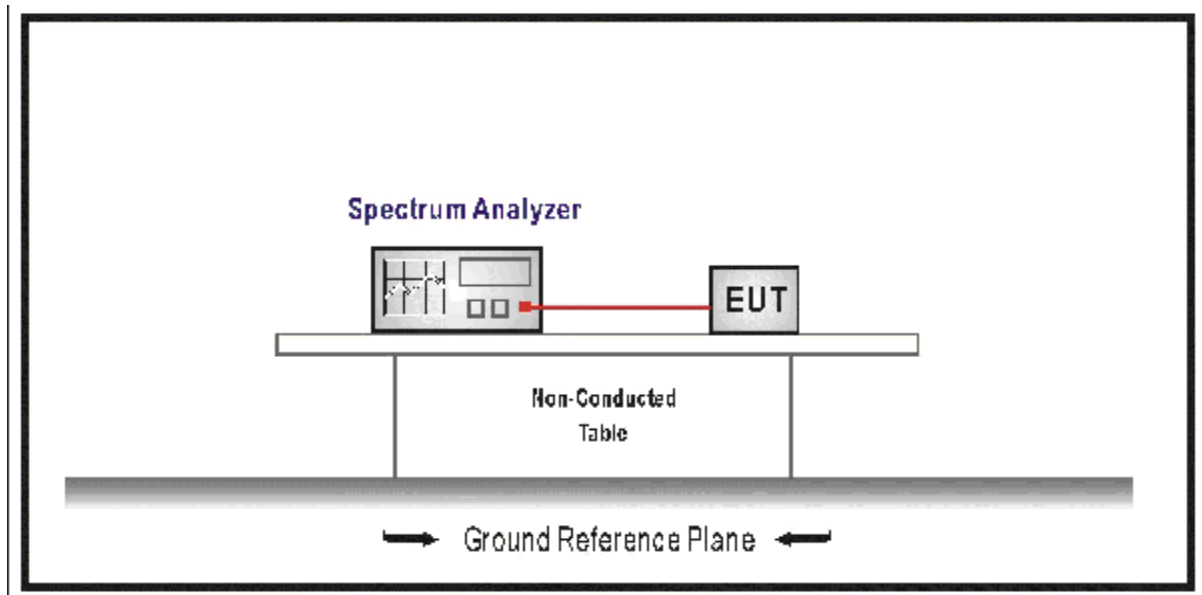
5. Occupied Bandwidth

5.1. Test Equipment

Occupied Bandwidth / AC-3

| Instrument | Manufacturer | Type No. | Serial No | Cal. Date |
|----------------------------|--------------|----------|------------|------------|
| Spectrum Analyzer | Agilent | E4446A | MY45300103 | 2007/06/11 |
| Coaxial Cable | Huber+Suhner | AC3-RF | 08 | 2006/11/25 |
| Temperature/Humidity Meter | zhicheng | ZC1-2 | QT-TH003 | 2007/03/31 |

5.2. Test Setup



5.3. Limit

The bandwidth of the emission must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.4. Test Procedure

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer.
- c) Add a correction factor to the display, and then test.

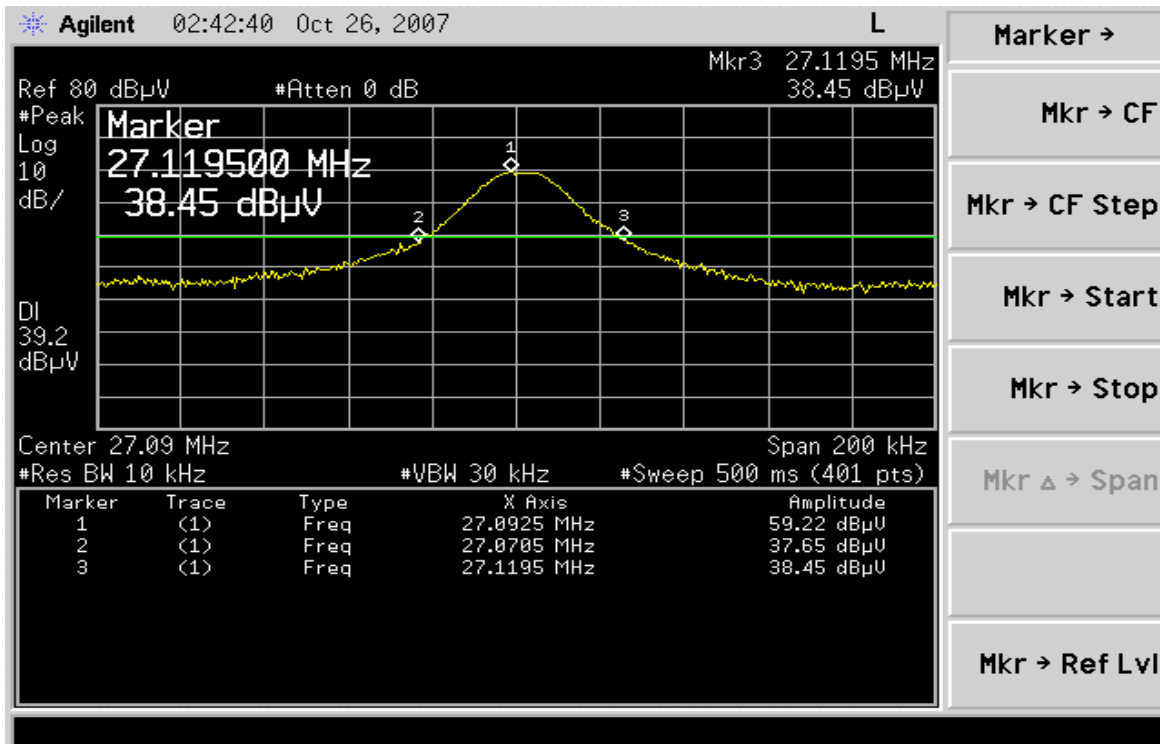
5.5. Uncertainty

The measurement uncertainty is defined as ± 100 Hz

5.6. Test Result

| | | |
|-----------|---|--------------------|
| Product | : | Cordless Keyboard |
| Test Item | : | Occupied Bandwidth |
| Test Site | : | AC-3 |
| Test Mode | : | Mode 1: Transmit |

Channel 01 (27.095MHz)



Channel 02 (27.145MHz)

