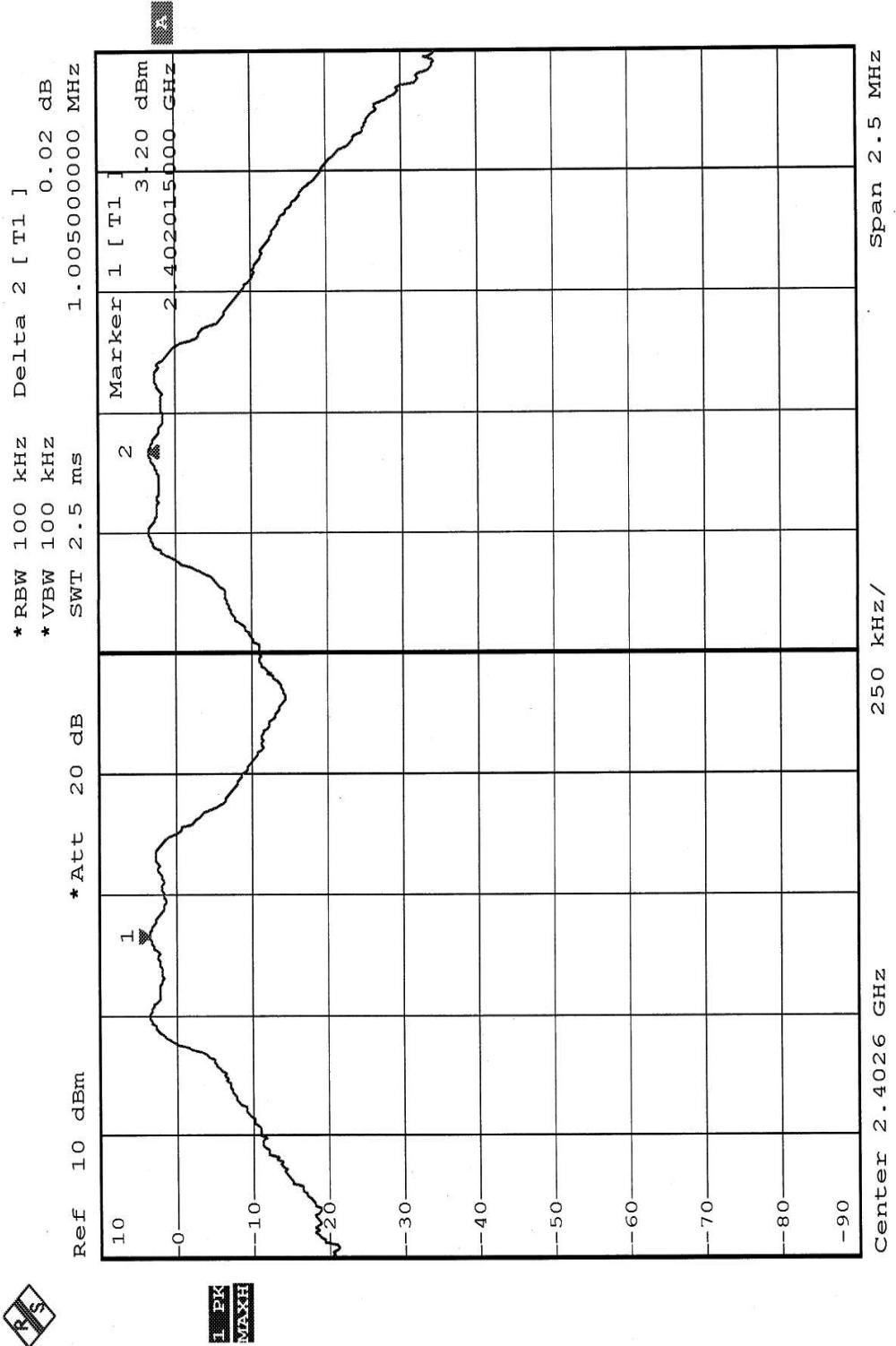
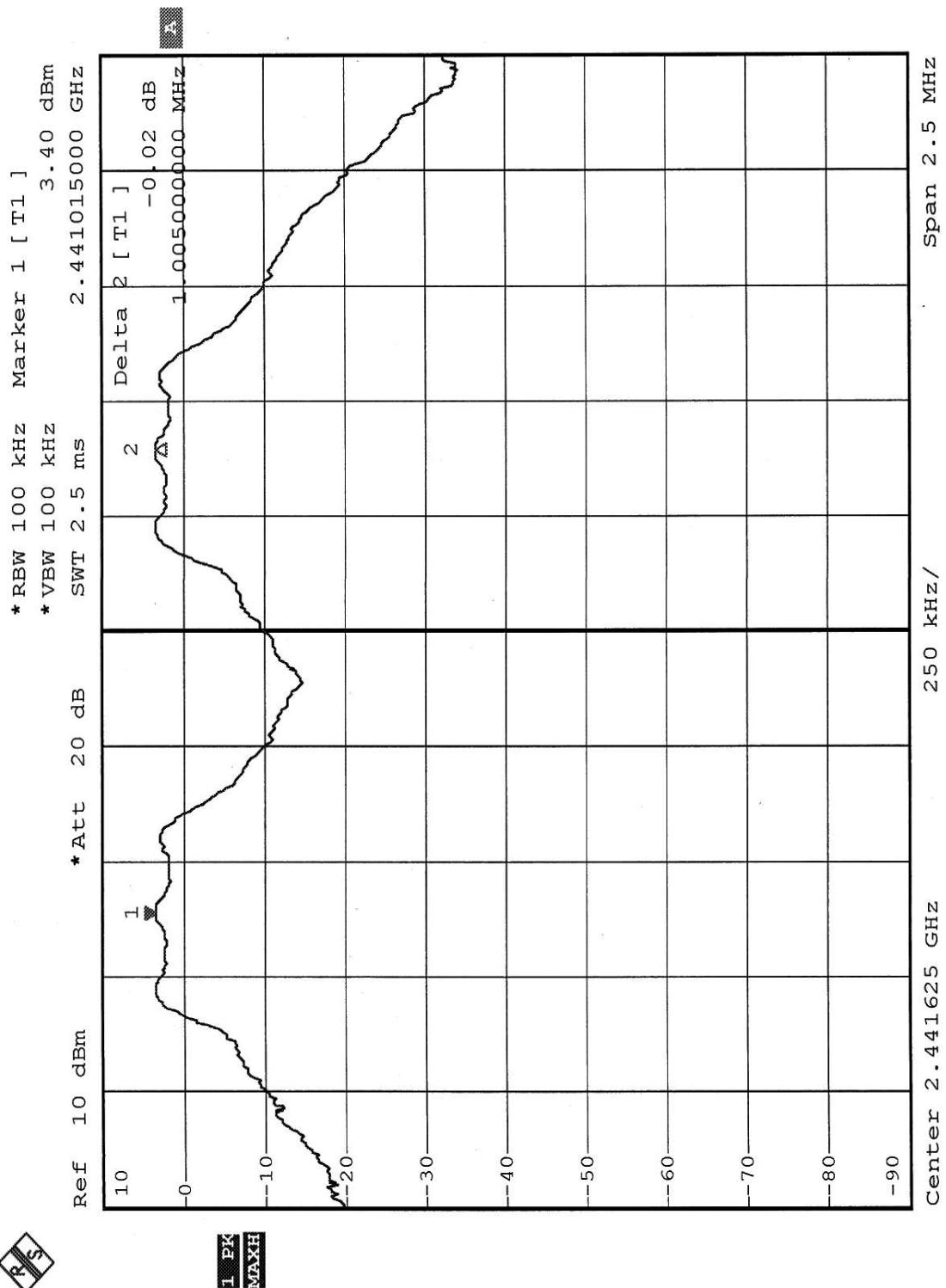


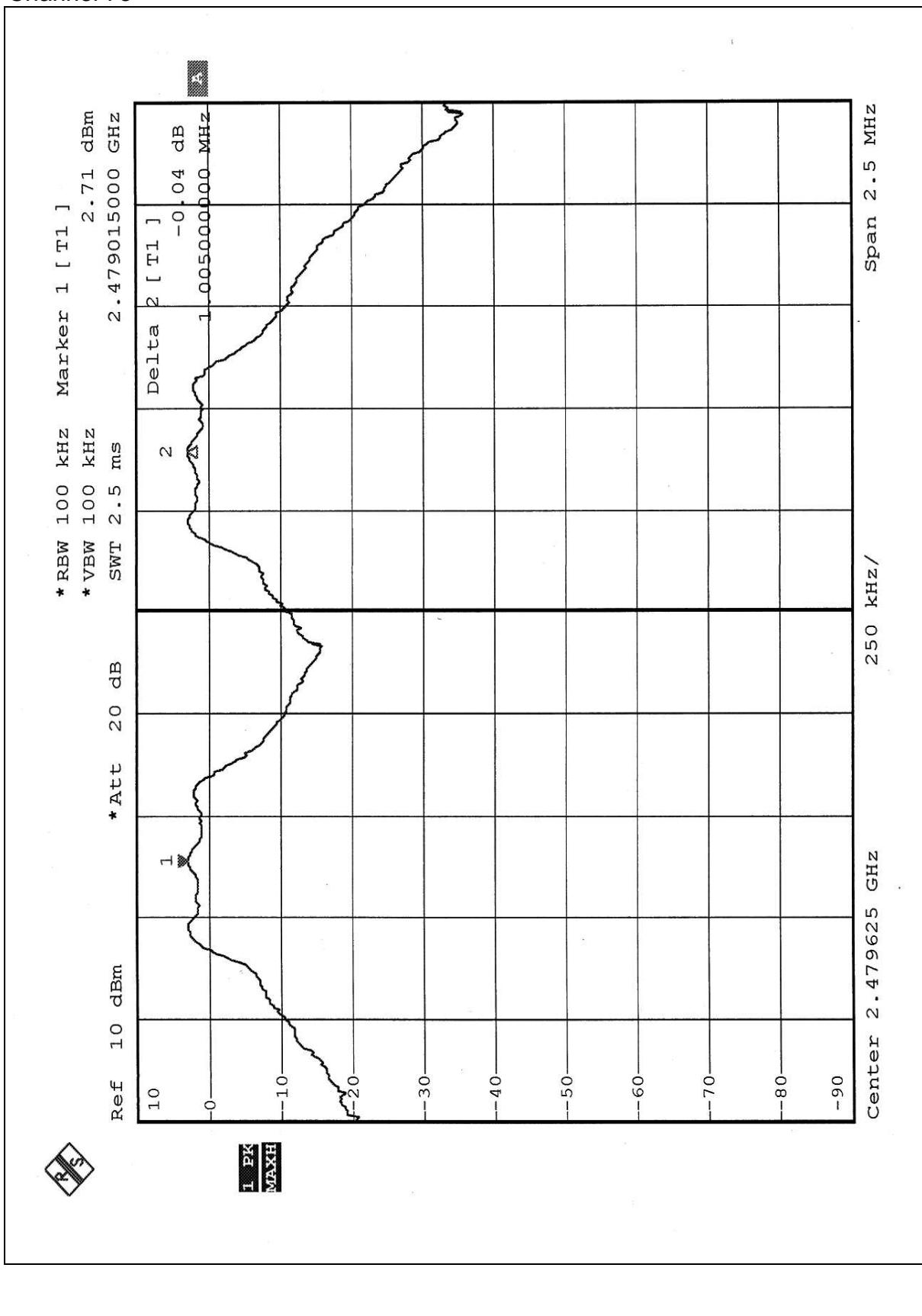
Channel 0



Channel 39



## Channel 78



## 4.6 MAXIMUM PEAK OUTPUT POWER -USING POWER METTER

### 4.6.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

### 4.6.2 INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| SPECTRUM ANALYEER          | FSEK30    | 100049     | Aug. 12, 2004    |

**NOTE:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

#### 4.6.3 TEST PROCEDURES

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. The center frequency of the spectrum analyzer is set to the fundamental frequency and using 3 MHz RBW and 3 MHz VBW.
4. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
5. Repeat above procedures until all frequencies measured were complete.

#### 4.6.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.6.5 TEST SETUP



For the actual test configuration, please refer to the related Item – Photographs of the Test Configuration.

#### 4.6.6 EUT OPERATING CONDITION

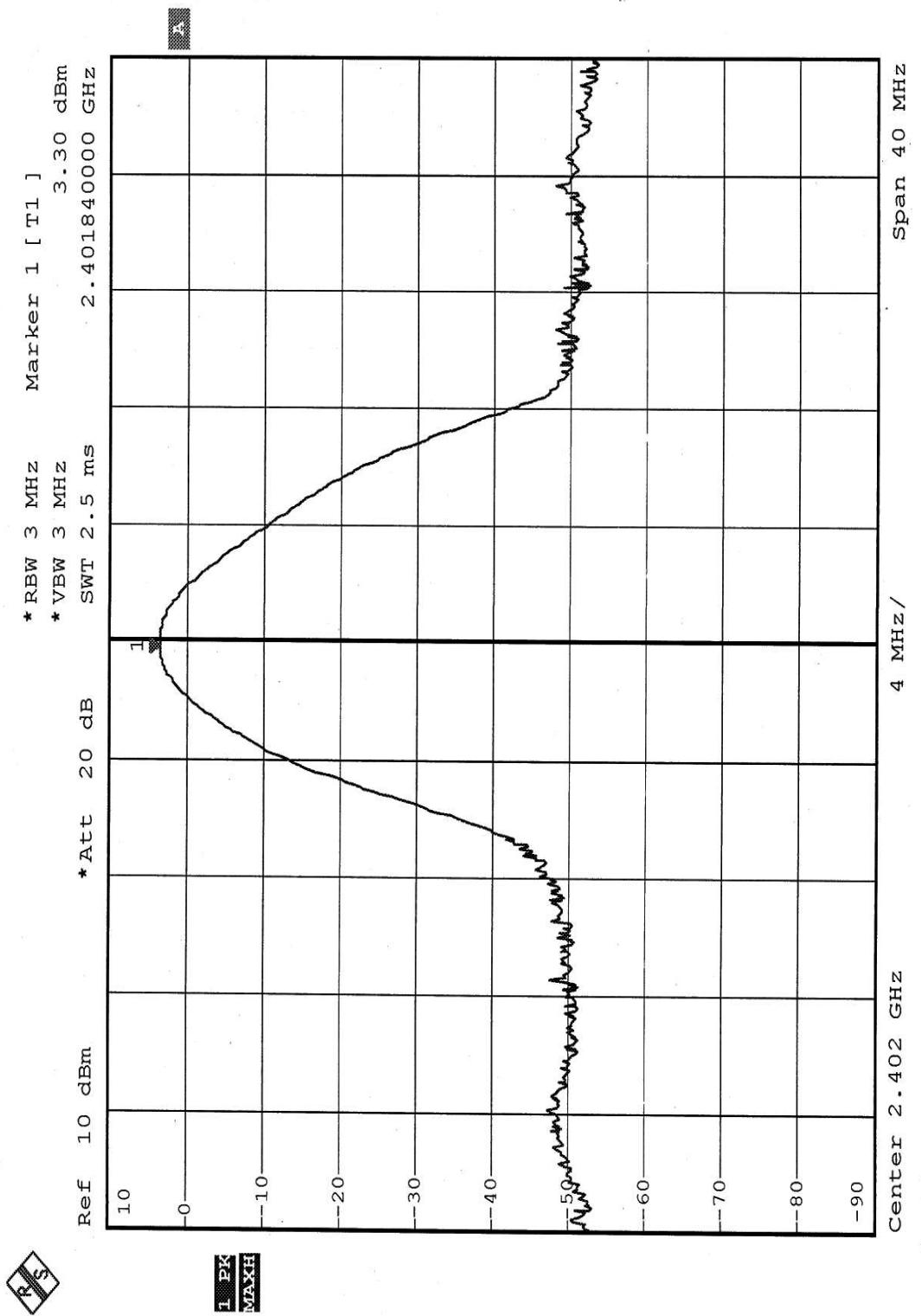
The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

## 4.6.7 TEST RESULTS

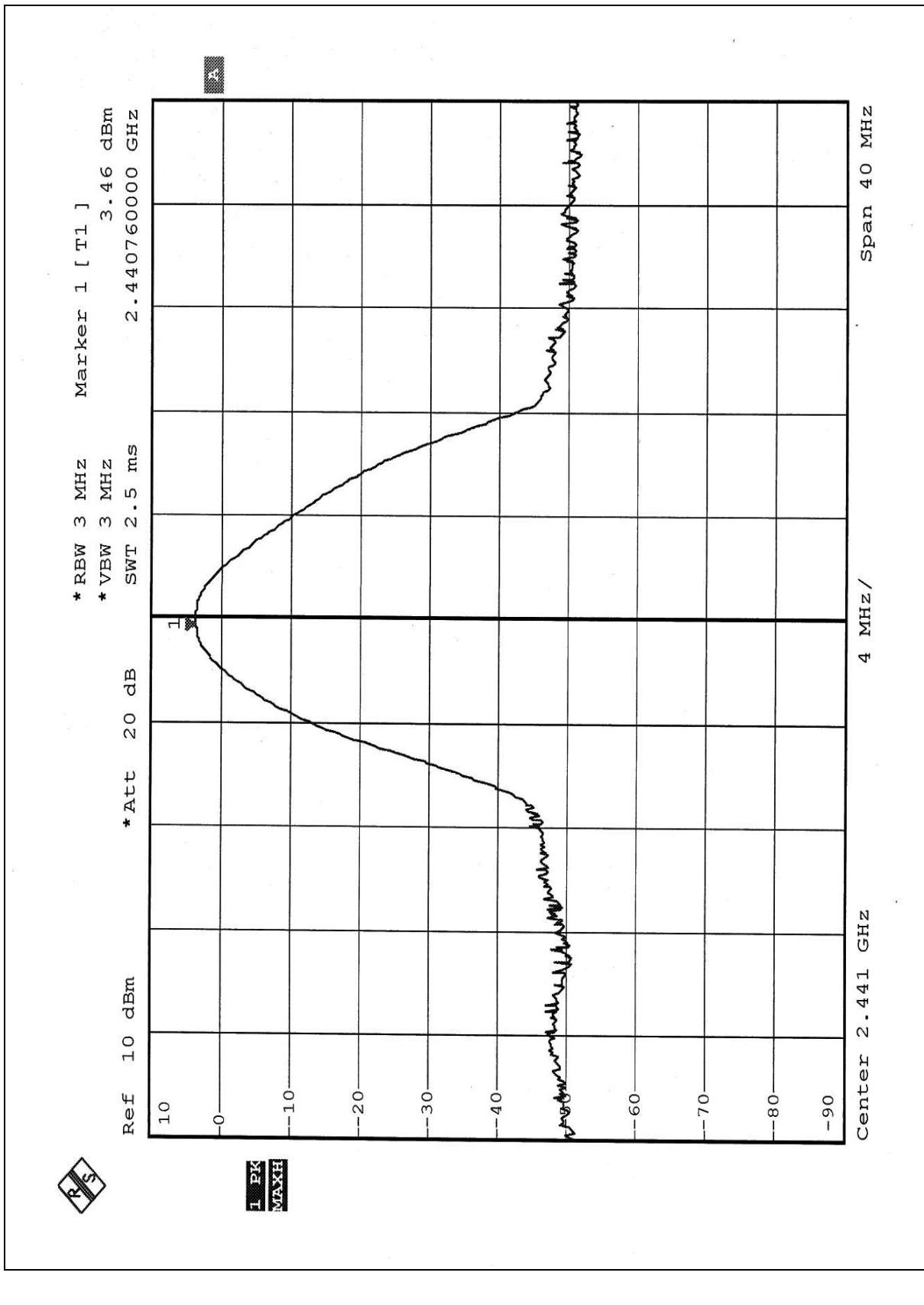
Output Power to Antenna:

| CHANNEL | CHANNEL FREQUENCY (MHz) | PEAK POWER OUTPUT (dBm) | PEAK POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|-------------------------|------------------------|-----------|
| 0       | 2402                    | 3.30                    | 30                     | PASS      |
| 39      | 2441                    | 3.46                    | 30                     | PASS      |
| 78      | 2480                    | 2.77                    | 30                     | PASS      |

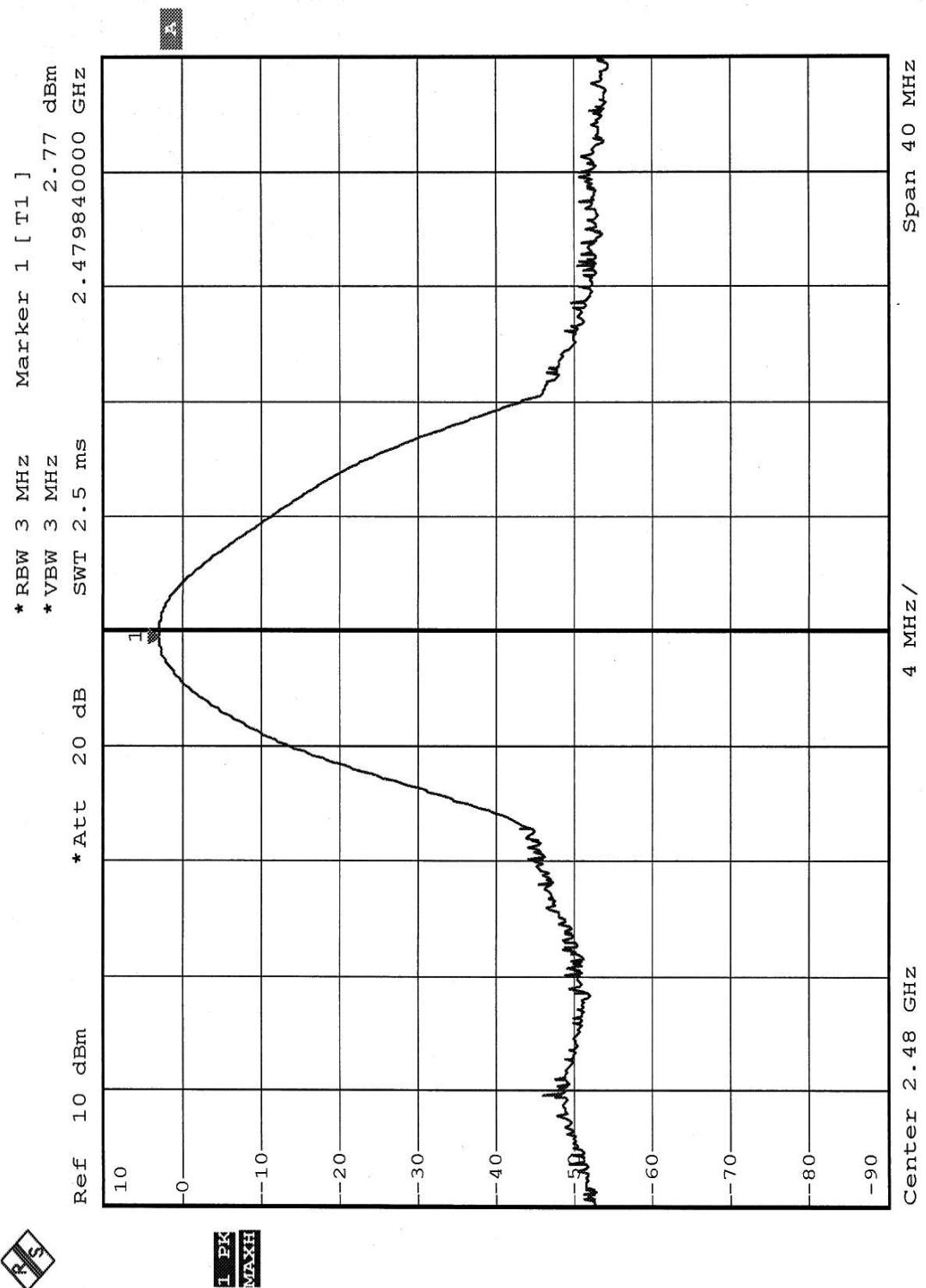
## Channel 0



Channel 39



Channel 78



## 4.7 RADIATED EMISSION MEASUREMENT

### 4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

| Frequencies (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009-0.490       | 2400/F(kHz)                       | 300                           |
| 0.490-1.705       | 24000/F(kHz)                      | 30                            |
| 1.705-30.0        | 30                                | 30                            |
| 30-88             | 100                               | 3                             |
| 88-216            | 150                               | 3                             |
| 216-960           | 200                               | 3                             |
| Above 960         | 500                               | 3                             |

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

#### 4.7.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER         | MODEL NO.           | SERIAL NO.               | CALIBRATED UNTIL |
|------------------------------------|---------------------|--------------------------|------------------|
| * HP Spectrum Analyzer             | 8594E               | 3911A07465               | July 07, 2004    |
| * HP Preamplifier                  | 8447D               | 2432A03504               | June 10, 2004    |
| * HP Preamplifier                  | 8449B               | 3008A01292               | Aug. 11, 2004    |
| SCHAFFNER Tunable Dipole Antenna   | VHBA 9123           | 459                      | Nov. 22, 2003    |
| SCHWARZBECK Tunable Dipole Antenna | UHA 9105            | 977                      |                  |
| * ROHDE & SCHWARZ TEST RECEIVER    | ESMI                | 839013/007<br>839379/002 | Feb. 13, 2004    |
| *Schwarzbeck Antenna               | VULB9168            | 137                      | Apr. 03, 2004    |
| * SCHWARZBECK Horn Antenna         | BBHA9120-D1         | D130                     | June 30, 2004    |
| * EMCO Horn Antenna                | 3115                | 9312-4192                | Mar. 23, 2004    |
| *ADT. Turn Table                   | TT100               | 0306                     | NA               |
| *ADT. Tower                        | AT100               | 0306                     | NA               |
| *Software                          | ADT_Radiated_V 5.14 | NA                       | NA               |
| *TIMES RF cable                    | LL142               | CABLE-CH6-01             | Apr. 30, 2004    |

**NOTE:** 1. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.  
 2. “\*” = These equipment are used for the final measurement.  
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.  
 4. The test was performed in ADT Chamber No. 6.

#### 4.7.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

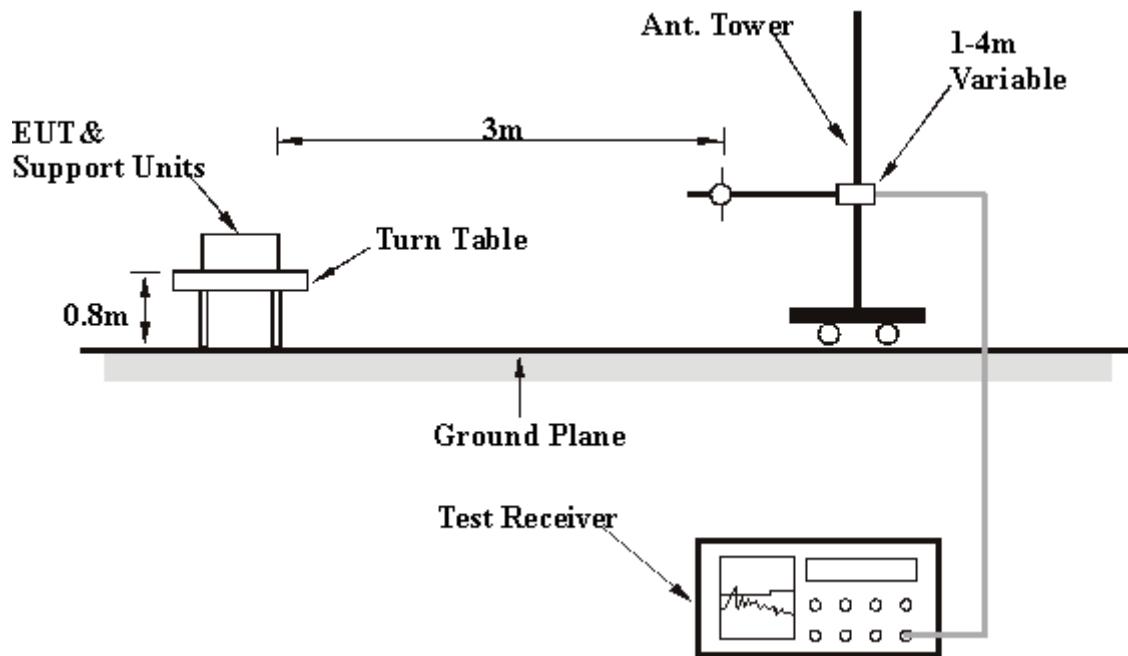
**NOTE:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

#### 4.7.4 DEVIATION FROM TEST STANDARD

No deviation

## 4.7.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

## 4.7.6 TEST RESULTS

|                                 |                                 |                          |                             |
|---------------------------------|---------------------------------|--------------------------|-----------------------------|
| <b>EUT</b>                      | Bluetooth Wireless/USB Keyboard | <b>MODEL</b>             | BT-0310                     |
| <b>MODE</b>                     | Channel 78                      | <b>FREQUENCY RANGE</b>   | Below 1000 MHz              |
| <b>INPUT POWER (SYSTEM)</b>     | 6.0V from Battery               | <b>DETECTOR FUNCTION</b> | Quasi-Peak                  |
| <b>ENVIRONMENTAL CONDITIONS</b> | 23 deg. C, 62%RH, 991 hPa       |                          | <b>TESTED BY:</b> Steven Lu |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1   | 80.66       | 34.39 QP                | 40.00          | -5.61       | 2.50 H             | 28                   | 25.11            | 9.28                     |
| 2   | 133.47      | 32.57 QP                | 43.50          | -10.93      | 3.00 H             | 160                  | 19.27            | 13.30                    |
| 3   | 160.41      | 32.19 QP                | 43.50          | -11.31      | 2.00 H             | 4                    | 17.95            | 14.24                    |
| 4   | 176.58      | 30.93 QP                | 43.50          | -12.57      | 1.25 H             | 10                   | 18.13            | 12.80                    |
| 5   | 192.74      | 36.50 QP                | 43.50          | -7.00       | 1.75 H             | 340                  | 24.83            | 11.67                    |
| 6   | 208.91      | 33.65 QP                | 43.50          | -9.85       | 1.50 H             | 10                   | 22.01            | 11.63                    |
| 7   | 225.08      | 37.70 QP                | 46.00          | -8.30       | 1.00 H             | 10                   | 25.26            | 12.44                    |
| 8   | 256.33      | 32.52 QP                | 46.00          | -13.48      | 1.00 H             | 262                  | 18.99            | 13.53                    |
| 9   | 720.86      | 34.15 QP                | 46.00          | -11.85      | 1.00 H             | 304                  | 9.60             | 24.55                    |
| 10  | 743.49      | 36.06 QP                | 46.00          | -9.94       | 1.00 H             | 310                  | 10.89            | 25.17                    |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq. (MHz)  | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB)  | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|-----|--------------|-------------------------|----------------|--------------|--------------------|----------------------|------------------|--------------------------|
| 1   | 39.70        | 35.68 QP                | 40.00          | -4.32        | 1.00 V             | 46                   | 21.35            | 14.33                    |
| 2   | <b>79.99</b> | <b>38.00 QP</b>         | <b>40.00</b>   | <b>-2.00</b> | <b>1.07 V</b>      | <b>350</b>           | <b>28.73</b>     | <b>9.27</b>              |
| 3   | 128.08       | 34.67 QP                | 43.50          | -8.83        | 1.00 V             | 340                  | 21.76            | 12.91                    |
| 4   | 139.93       | 34.89 QP                | 43.50          | -8.61        | 1.00 V             | 46                   | 21.13            | 13.77                    |
| 5   | 160.41       | 31.74 QP                | 43.50          | -11.76       | 1.00 V             | 340                  | 17.49            | 14.24                    |
| 6   | 192.74       | 32.92 QP                | 43.50          | -10.58       | 1.00 V             | 220                  | 21.25            | 11.67                    |
| 7   | 225.08       | 33.36 QP                | 46.00          | -12.64       | 1.00 V             | 250                  | 20.92            | 12.44                    |
| 8   | 256.33       | 27.93 QP                | 46.00          | -18.07       | 1.00 V             | 274                  | 14.40            | 13.53                    |
| 9   | 288.67       | 22.19 QP                | 46.00          | -23.81       | 1.50 V             | 340                  | 7.36             | 14.83                    |
| 10  | 480.51       | 26.36 QP                | 46.00          | -19.64       | 1.25 V             | 220                  | 6.63             | 19.73                    |
| 11  | 743.49       | 31.16 QP                | 46.00          | -14.84       | 2.00 V             | 166                  | 5.99             | 25.17                    |
| 12  | 934.26       | 34.11 QP                | 46.00          | -11.89       | 1.00 V             | 316                  | 6.57             | 27.53                    |

**NOTE:**

1. Emission level (dBuV/m)=Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

|                                 |                                 |                             |                          |
|---------------------------------|---------------------------------|-----------------------------|--------------------------|
| <b>EUT</b>                      | Bluetooth Wireless/USB Keyboard | <b>MODEL</b>                | BT-0310                  |
| <b>MODE</b>                     | Channel 0                       | <b>FREQUENCY RANGE</b>      | Above 1000 MHz           |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz                   | <b>DETECTOR FUNCTION</b>    | Peak(PK)<br>Average (AV) |
| <b>ENVIRONMENTAL CONDITIONS</b> | 23 deg. C, 62%RH, 991 hPa       | <b>TESTED BY:</b> Steven Lu |                          |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 1201.50        | 48.61 PK                      | 74.00             | -25.39         | 1.12 H                   | 20                         | 19.65                  | 28.96                          |
| 2   | *2402.00       | 98.13 PK                      |                   |                | 1.00 H                   | 350                        | 66.64                  | 31.49                          |
| 2   | *2402.00       | 68.13 AV                      |                   |                | 1.00 H                   | 350                        | 36.64                  | 31.49                          |
| 3   | 4804.00        | 50.02 PK                      | 74.00             | -23.98         | 1.48 H                   | 20                         | 12.20                  | 37.83                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 1201.52        | 47.11 PK                      | 74.00             | -26.89         | 1.36 V                   | 178                        | 18.15                  | 28.96                          |
| 2   | *2402.00       | 100.01 PK                     |                   |                | 1.16 V                   | 28                         | 68.52                  | 31.49                          |
| 2   | *2402.00       | 70.01 AV                      |                   |                | 1.16 V                   | 28                         | 38.52                  | 31.49                          |
| 3   | 4804.00        | 50.35 PK                      | 74.00             | -23.65         | 1.30 V                   | 58                         | 12.53                  | 37.83                          |

**NOTE:**

1. Emission level = Raw value + Correction Factor
2. Correction Factor = Ant. Factor + Cable loss
3. Margin value = Emission level - Limit value
4. “\*”: Fundamental frequency
5. The other emission levels were very low against the limit.
6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on  $0.625*5$  per 247 ms per channel.  
Therefore, the duty cycle be equal to:  $20\log(3.125/100) = -30\text{dB}$
7. Average value = peak reading  $-20\log(\text{duty cycle})$

|                                 |                                 |                          |                             |
|---------------------------------|---------------------------------|--------------------------|-----------------------------|
| <b>EUT</b>                      | Bluetooth Wireless/USB Keyboard | <b>MODEL</b>             | BT-0310                     |
| <b>MODE</b>                     | Channel 39                      | <b>FREQUENCY RANGE</b>   | Above 1000 MHz              |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz                   | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV)    |
| <b>ENVIRONMENTAL CONDITIONS</b> | 23 deg. C, 62%RH, 991 hPa       |                          | <b>TESTED BY:</b> Steven Lu |

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 1221.05        | 46.85 PK                      | 74.00             | -27.15         | 1.00 H                   | 24                         | 17.92                  | 28.93                          |
| 2   | *2441.00       | 98.41 PK                      |                   |                | 1.00 H                   | 332                        | 66.87                  | 31.54                          |
| 2   | *2441.00       | 68.41 AV                      |                   |                | 1.00 H                   | 332                        | 36.87                  | 31.54                          |
| 3   | 4882.00        | 49.01 PK                      | 74.00             | -24.99         | 1.00 H                   | 324                        | 11.06                  | 37.95                          |

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M**

| No. | Freq.<br>(MHz) | Emission<br>Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Antenna<br>Height<br>(m) | Table<br>Angle<br>(Degree) | Raw<br>Value<br>(dBuV) | Correction<br>Factor<br>(dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1   | 1221.00        | 48.85 PK                      | 74.00             | -25.15         | 1.15 V                   | 309                        | 19.92                  | 28.93                          |
| 2   | *2441.00       | 99.55 PK                      |                   |                | 1.12 V                   | 24                         | 68.01                  | 31.54                          |
| 2   | *2441.00       | 69.55 AV                      |                   |                | 1.12 V                   | 24                         | 38.01                  | 31.54                          |
| 3   | 4882.00        | 50.03 PK                      | 74.00             | -23.97         | 1.65 V                   | 62                         | 12.08                  | 37.95                          |

**NOTE:**

1. Emission level = Raw value + Correction Factor
2. Correction Factor = Ant. Factor + Cable loss
3. Margin value = Emission level - Limit value
4. “\*”: Fundamental frequency
5. The other emission levels were very low against the limit.
6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on 0.625\*5 per 247 ms per channel.  
Therefore, the duty cycle be equal to:  $20\log(3.125/100) = -30\text{dB}$
7. Average value = peak reading  $-20\log(\text{duty cycle})$

|                                 |                                 |                          |                             |
|---------------------------------|---------------------------------|--------------------------|-----------------------------|
| <b>EUT</b>                      | Bluetooth Wireless/USB Keyboard | <b>MODEL</b>             | BT-0310                     |
| <b>MODE</b>                     | Channel 78                      | <b>FREQUENCY RANGE</b>   | Above 1000 MHz              |
| <b>INPUT POWER (SYSTEM)</b>     | 120Vac, 60 Hz                   | <b>DETECTOR FUNCTION</b> | Peak(PK)<br>Average (AV)    |
| <b>ENVIRONMENTAL CONDITIONS</b> | 23 deg. C, 62%RH, 991 hPa       |                          | <b>TESTED BY:</b> Steven Lu |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b> |             |                         |                |             |                    |                      |                  |                          |
|--|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.  | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 1240.47     | 48.92 PK                | 74.00          | -25.08      | 1.07 H             | 20                   | 20.02            | 28.90                    |
| 2  | *2480.00    | 96.61 PK                |                |             | 1.00 H             | 330                  | 65.02            | 31.59                    |
| 2  | *2480.00    | 66.61 AV                |                |             | 1.00 H             | 330                  | 35.02            | 31.59                    |
| 3  | 4960.00     | 51.03 PK                | 74.00          | -22.97      | 1.42 H             | 246                  | 12.95            | 38.08                    |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b> |             |                         |                |             |                    |                      |                  |                          |
|--|-------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No.  | Freq. (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1  | 1240.50     | 46.77 PK                | 74.00          | -27.23      | 1.24 V             | 201                  | 17.87            | 28.90                    |
| 2  | *2480.00    | 98.56 PK                |                |             | 1.14 V             | 7                    | 66.97            | 31.59                    |
| 2  | *2480.00    | 68.56 AV                |                |             | 1.14 V             | 7                    | 36.97            | 31.59                    |
| 3  | 4960.00     | 50.27 PK                | 74.00          | -23.73      | 1.38 V             | 120                  | 12.19            | 38.08                    |

**NOTE:**

1. Emission level = Raw value + Correction Factor
2. Correction Factor =Ant. Factor + Cable loss
3. Margin value = Emission level - Limit value
4. “\*”: Fundamental frequency
5. The other emission levels were very low against the limit.
6. The DH5 packet was the worse case duty cycle for a transmit dwell time on a channel, based upon bluetooth theory the transmitter is on  $0.625*5$  per 247 ms per channel.  
Therefore, the duty cycle be equal to:  $20\log(3.125/100) = -30\text{dB}$
7. Average value = peak reading  $-20\log(\text{duty cycle})$

## 4.8 BAND EDGES MEASUREMENT

### 4.8.1 LIMITS OF BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100KHz RB).

### 4.8.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| SPECTRUM ANALYZER          | FSEK30    | 100049     | Aug. 12, 2004    |

#### NOTES:

The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

### 4.8.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low loss cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

### 4.8.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.8.5 EUT OPERATING CONDITION

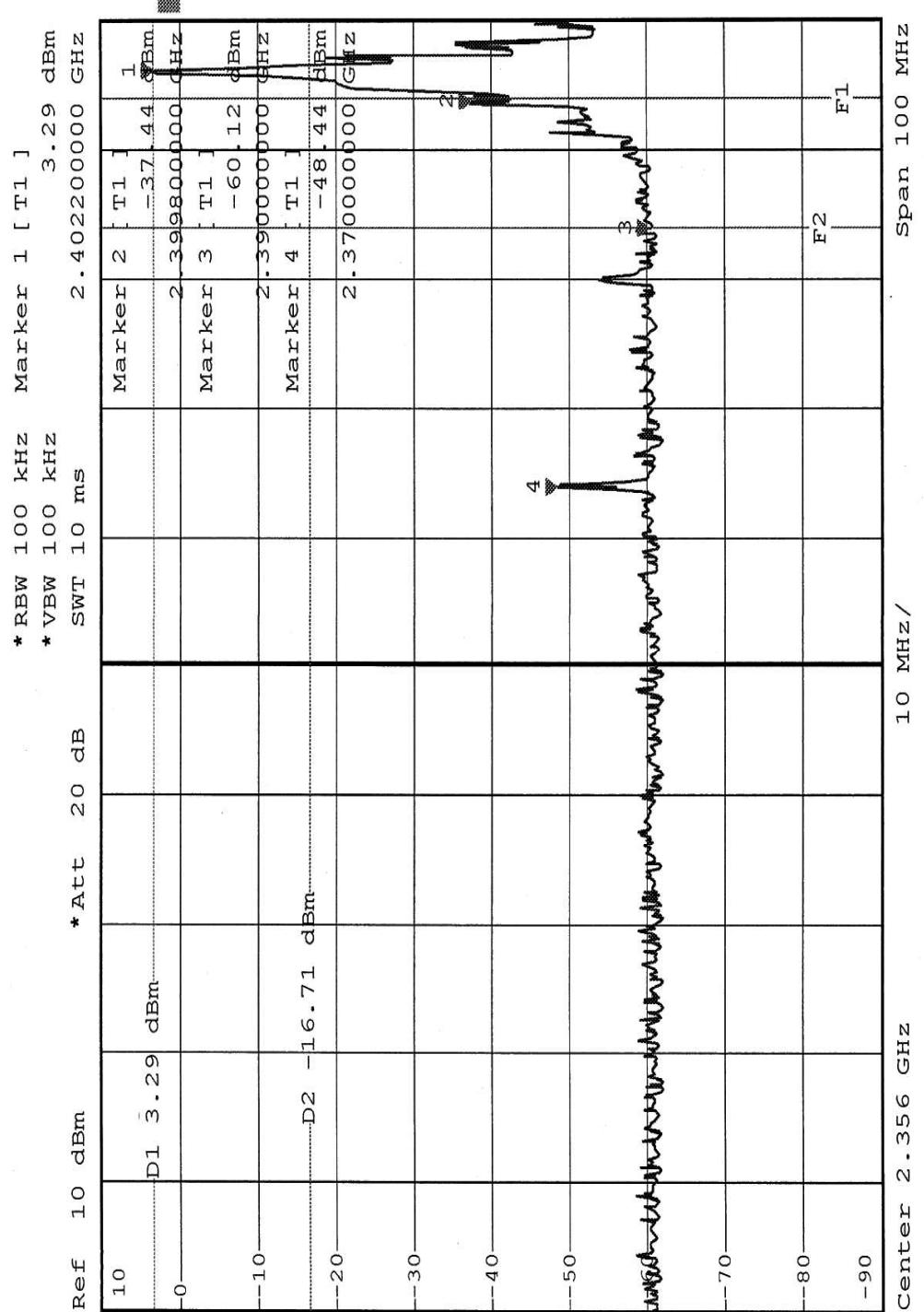
The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

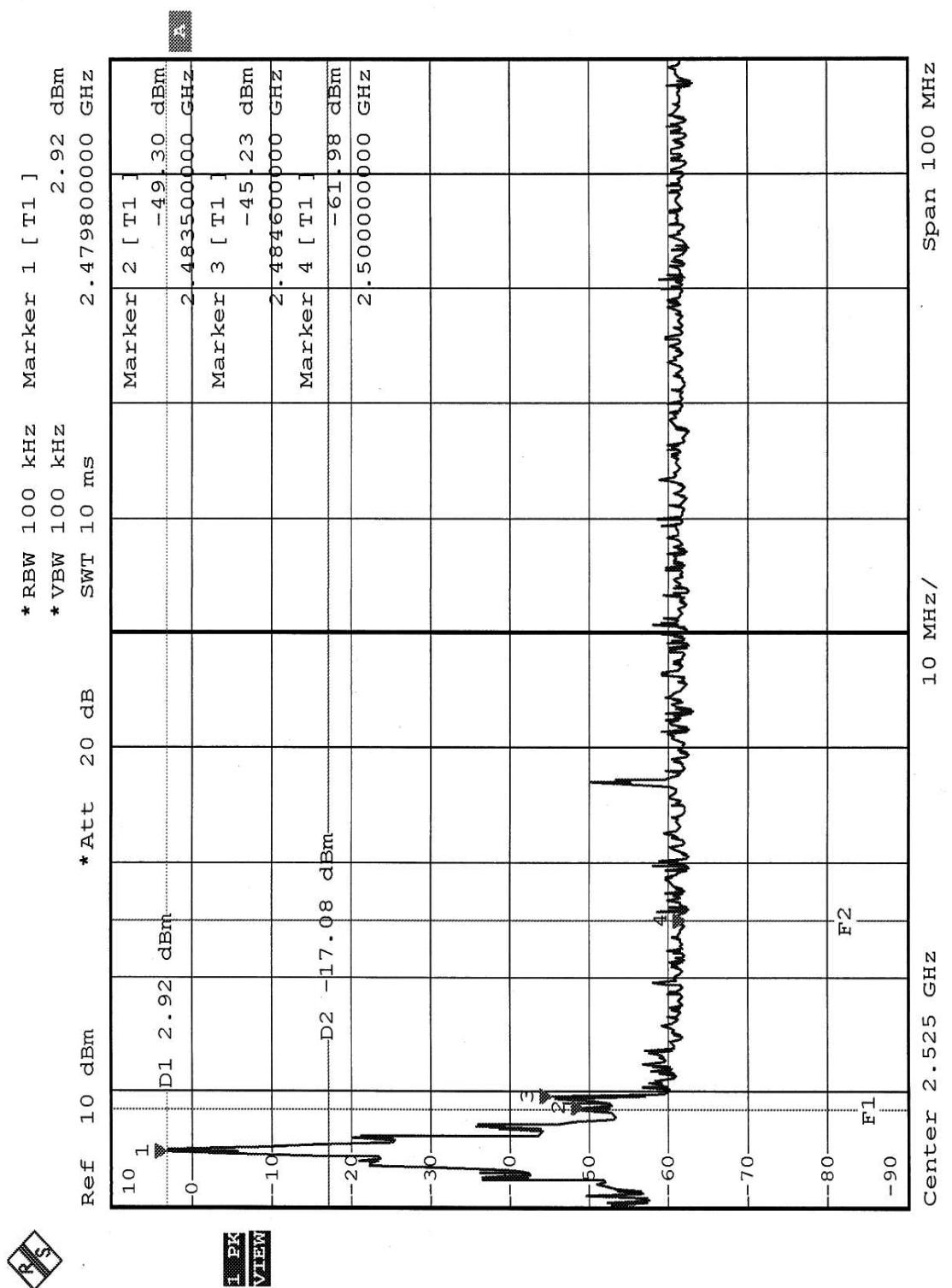
#### 4.8.6 TEST RESULTS

The spectrum plots are attached on the following 2 pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

**NOTE:** The band edge emission plot on the following first page shows 51.73dB delta between carrier maximum power and local maximum emission in restrict band (2.3700GHz). The emission of carrier strength list in the test result of channel 0 at the item 4.7.6 is 70.01dB<sub>u</sub>V/m, so the maximum field strength in restrict band is  $70.01 - 51.73 = 18.28$ dB<sub>u</sub>V/m which is under 54 dB<sub>u</sub>V/m limit.

**NOTE:** The band edge emission plot on the following second page shows 48.15dB delta between carrier maximum power and local maximum emission in restrict band (2.4846GHz). The emission of carrier strength list in the test result of channel 78 at the item 4.7.6 is 68.56dB<sub>u</sub>V/m, so the maximum field strength in restrict band is  $68.56 - 48.15 = 20.41$ dB<sub>u</sub>V/m which is under 54 dB<sub>u</sub>V/m limit.





## 4.9 ANTENNA REQUIREMENT

### 4.9.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 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 FCC 47 CFR Section 15.247 (b), 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.

### 4.9.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is Internal Printing Antenna without antenna connector. The maximum Gain of this antenna is only 2dBi.

## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION

### RADIATED EMISSION TEST



## 6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

|                    |                 |
|--------------------|-----------------|
| <b>USA</b>         | FCC, NVLAP      |
| <b>Germany</b>     | TUV Rheinland   |
| <b>Japan</b>       | VCCI            |
| <b>New Zealand</b> | MoC             |
| <b>Norway</b>      | NEMKO           |
| <b>R.O.C.</b>      | BSMI, DGT, CNLA |

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site: [www.adt.com.tw/index.5/phtml](http://www.adt.com.tw/index.5/phtml).

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The address and road map of all our labs can be found in our web site also.