

# FCC TEST REPORT

**REPORT NO.:** RF910118R07

**MODEL NO.:** TSAM-004

**RECEIVED:** Jan. 18, 2002

**TESTED:** Jan. 21, 2002

**APPLICANT:** TopSeed Technology Corp.

**ADDRESS:** 9F-3, No. 16, Jain Ba Rd., Chung Ho City 235,  
Taipei Hsien, Taiwan, R.O.C.

**ISSUED BY:** Advance Data Technology Corporation

**LAB LOCATION:** 47 14th Lin, Chia Pau Tsuen, Linkou Hsiang, Taipei,  
Taiwan, R.O.C.

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ILAC MRA  
0528



Lab Code: 200102-0

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## 1 CERTIFICATION

**PRODUCT :** RF Flex Pointer  
**BRAND NAME :** TopSeed  
**MODEL NO :** TSAM-004  
**APPLICANT :** TopSeed Technology Corp.  
**STANDARDS :** 47 CFR Part 15, Subpart C(15.249)  
ANSI C63.4-1992, Canada RSS 210

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility on Jan. 21, 2002. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

TESTED BY: Gary Chang, DATE: Jan. 31, 2002  
Gary Chang

CHECKED BY: Demi Chen, DATE: Jan. 31, 2002  
Demi Chen

APPROVED BY: Alan Lane, DATE: Jan. 31, 2002  
Dr. Alan Lane  
Manager

## 2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: 47 CFR Part 15, Subpart C |                         |        |                                                  |
|---------------------------------------------|-------------------------|--------|--------------------------------------------------|
| STANDARD PARAGRAPH                          | TEST TYPE               | RESULT | REMARK                                           |
| 15.107                                      | Conducted Emission Test | NA     | Power supply is 3VDC from batteries              |
| 15.249(C)                                   | Radiated Emission Test  | PASS   | Minimum passing margin is -9.3dBuV at 926.00 MHz |
| 15.249(C)                                   | Band edge Test          | PASS   | NA                                               |

**NOTE:** The receiver part to communicate with the EUT has been verified to comply with FCC Part 15, Subpart B, Class B (DoC). The test report can be provided upon request.

### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

|                                          |                   |
|------------------------------------------|-------------------|
| <b>PRODUCT</b>                           | RF Flex Pointer   |
| <b>MODEL NO.</b>                         | TSAM-004          |
| <b>POWER SUPPLY</b>                      | 3VDC from battery |
| <b>MODULATION TYPE</b>                   | FSK               |
| <b>CARRIER FREQUENCY OF EACH CHANNEL</b> | 912MHz            |
| <b>BANDWIDTH OF EACH CHANNEL</b>         | 1MHz              |
| <b>NUMBER OF CHANNEL</b>                 | 1                 |
| <b>ANTENNA TYPE</b>                      | Integral antenna  |
| <b>DATA CABLE</b>                        | NA                |
| <b>I/O PORTS</b>                         | NA                |
| <b>ASSOCIATED DEVICES</b>                | NA                |

**NOTE:**

- 1.The EUT is the transmitter part of a RF Flex Pointer.
- 2.For more detailed features description of the EUT, please refer to the manufacturer's specifications or the User's Manual.

### 3.2 DESCRIPTION OF TEST MODES

One channel was provided in this EUT.

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 1       | 912MHz    |         |           |

### 3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is the transmitter part of a RF Flex Pointer. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

**FCC CFR 47 Part 15, Subpart C (15.249)**

**ANSI C63.4-1992, Canada RSS 210**

All tests have been performed and recorded as per the above standards.

### 3.4 DESCRIPTION OF SUPPORT UNITS

NA

## 4 TEST PROCEDURE AND RESULT

### 4.1 CONDUCTED EMISSION MEASUREMENT

NA

### 4.2 RADIATED EMISSION MEASUREMENT

#### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

According to 15.249 the field strength of emissions from intentional radiators operated under these frequencies bands shall not exceed the following:

| Fundamental Frequency<br>(MHz) | Field Strength of Fundamental (dBuV/m) |         |
|--------------------------------|----------------------------------------|---------|
|                                | Peak                                   | Average |
| 902-928                        | 114                                    | 94      |

Field strength limits are at the distance of 3 meters, emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

| Other Frequencies<br>(MHz) | Field Strength of Fundamental |            |
|----------------------------|-------------------------------|------------|
|                            | uV/meter                      | dBuV/meter |
| 30-88                      | 100                           | 40.0       |
| 88-216                     | 150                           | 43.5       |
| 216-960                    | 200                           | 46.0       |
| Above 960                  | 500                           | 54.0       |

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.

## 4.2.2 TEST INSTRUMENT

| DESCRIPTION & MANUFACTURER         | MODEL NO.            | SERIAL NO.               | CALIBRATED UNTIL |
|------------------------------------|----------------------|--------------------------|------------------|
| * HP Spectrum Analyzer             | 8590L                | 3544A01176               | May 7, 2002      |
| * HP Preamplifier                  | 8447D                | 2944A08485               | May 7, 2002      |
| * HP Preamplifier                  | 8449B                | 3008A01201               | Dec. 06, 2002    |
| * HP Preamplifier                  | 8449B                | 3008A01292               | Aug. 21, 2002    |
| * ROHDE & SCHWARZ TEST RECEIVER    | ESMI                 | 839013/007<br>839379/002 | Jan. 25, 2002    |
| SCHWARZBECK Tunable Dipole Antenna | VHA 9103<br>UHA 9105 | E101051<br>E101055       | Nov. 23, 2002    |
| * CHASE BILOG Antenna              | CBL6112A             | 2221                     | Aug. 2, 2002     |
| * SCHWARZBECK Horn Antenna         | BBHA9120-D1          | D130                     | July 6, 2002     |
| * EMCO Horn Antenna                | 3115                 | 9312-4192                | April 15, 2002   |
| * EMCO Turn Table                  | 1060                 | 1115                     | NA               |
| * SHOSHIN Tower                    | AP-4701              | A6Y005                   | NA               |
| * Software                         | AS61D4               | NA                       | NA               |
| * ANRITSU RF Switches              | MP59B                | M35046                   | Aug. 2, 2002     |
| * TIMES RF cable                   | LMR-600              | CABLE-ST5-01             | Aug. 2, 2002     |
| Open Field Test Site               | Site 5               | ADT-R05                  | July 28, 2002    |
| VCCI Site Registration No.         | Site 5               | R-1039                   | NA               |

**NOTE:** 1.The measurement uncertainty is less than +/- 3.0dB, which is calculated as per the NAMAS document NIS81.

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

3. "\*" = These equipment are used for the final measurement.

4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz.

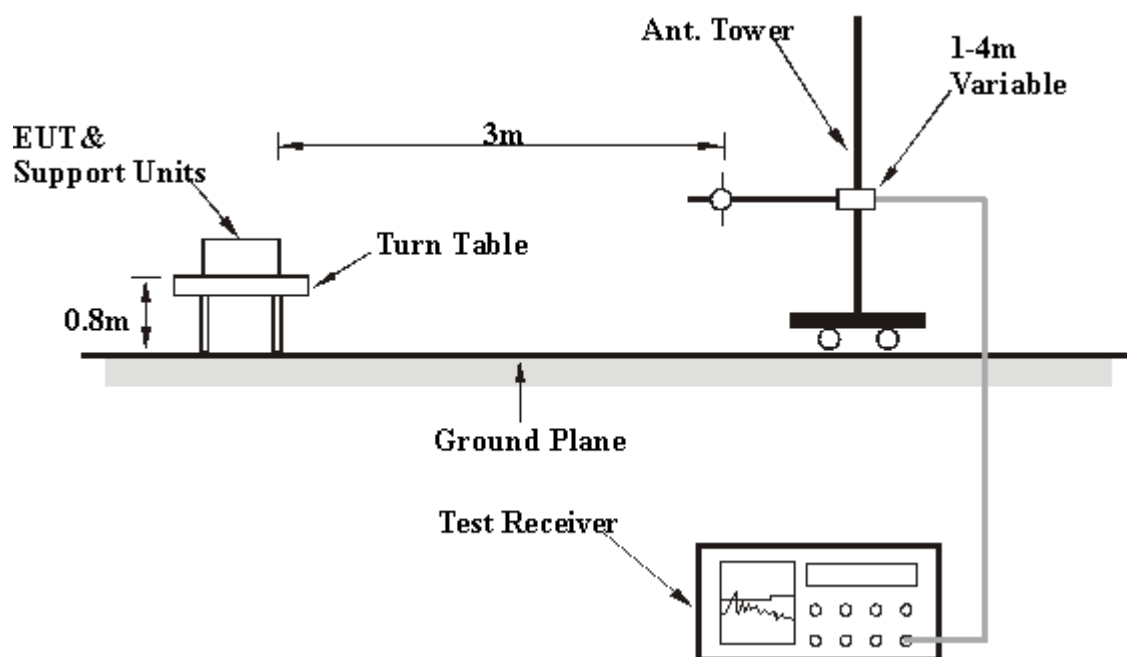
#### 4.2.3 TEST PROCEDURE

- 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 the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

**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 300 Hz for Average detection (AV) at frequency above 1GHz.

#### 4.2.4 TEST SETUP



For the actual test configuration, please refer to the related item in this test report - Photographs of the Test Configuration.

#### 4.2.5 EUT OPERATING CONDITION

Set the EUT under transmission condition continuously at specific channel frequency.

#### 4.2.6 TEST RESULT

|                                 |                                 |                              |                   |
|---------------------------------|---------------------------------|------------------------------|-------------------|
| <b>EUT</b>                      | RF Flex Pointer                 | <b>MODEL</b>                 | TSAM-004          |
| <b>FREQUENCY RANGE</b>          | 30-1000 MHz                     |                              |                   |
| <b>INPUT POWER</b>              | 3VDC                            | <b>DETECTOR FUNCTION</b>     | Quasi-Peak / Peak |
| <b>ENVIRONMENTAL CONDITIONS</b> | 16 deg. C, 70 % RH,<br>1050 hPa | <b>TESTED BY:</b> Gary Chang |                   |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M |                 |                         |                |             |                    |                      |                  |                     |                   |                      |                        |
|-----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|---------------------|-------------------|----------------------|------------------------|
| No.                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB) | Cable Factor (dB) | Pre-Amp. Factor (dB) | Correction Factor (dB) |
| 1                                                   | 144.20          | 30.4 QP                 | 43.50          | -13.10      | 1.03H              | 307                  | 18.60            | 10.58               | 1.18              | 0.00                 | -11.76                 |
| 2                                                   | 217.50          | 29.7 QP                 | 46.00          | -16.30      | 1.10H              | 232                  | 18.20            | 9.97                | 1.50              | 0.00                 | -11.48                 |
| 3                                                   | 244.60          | 30.4 QP                 | 46.00          | -15.60      | 1.06H              | 149                  | 17.20            | 11.56               | 1.63              | 0.00                 | -13.19                 |
| 4                                                   | *911.97         | 88.1 PK                 | 114.00         | -25.90      | 1.14H              | 304                  | 90.55            | 20.90               | 3.63              | 27.00                | 2.46                   |
| 5                                                   | *912.00         | 86.7 QP                 | 94.00          | -7.30       | 1.14H              | 304                  | 62.20            | 20.90               | 3.63              | 0.00                 | -24.54.                |
| 6                                                   | 926.00          | 36.7 QP                 | 46.00          | -9.30       | 1.29H              | 8                    | 12.00            | 21.00               | 3.68              | 0.00                 | -24.69.                |

**NOTE:**

1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
2. Correction Factor(dB) = Pre-Amplifier Factor (dB) - Antenna Factor (dB) - Cable Factor (dB)
3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
4. The other emission levels were very low against the limit.
5. Margin value = Emission level – Limit value.
6. “\*” = Fundamental frequency

|                                 |                                 |                              |                   |
|---------------------------------|---------------------------------|------------------------------|-------------------|
| <b>EUT</b>                      | RF Flex Pointer                 | <b>MODEL</b>                 | TSAM-004          |
| <b>FREQUENCY RANGE</b>          | 30-1000 MHz                     |                              |                   |
| <b>INPUT POWER</b>              | 3VDC                            | <b>DETECTOR FUNCTION</b>     | Quasi-Peak / Peak |
| <b>ENVIRONMENTAL CONDITIONS</b> | 16 deg. C, 70 % RH,<br>1050 hPa | <b>TESTED BY:</b> Gary Chang |                   |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b> |                 |                         |                |             |                    |                      |                  |                     |                   |                      |                        |
|--------------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|---------------------|-------------------|----------------------|------------------------|
| No.                                                          | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB) | Cable Factor (dB) | Pre-Amp. Factor (dB) | Correction Factor (dB) |
| 1                                                            | 121.40          | 30.1 QP                 | 43.50          | -13.40      | 1.04V              | 62                   | 17.40            | 11.58               | 1.09              | 0.00                 | -12.67                 |
| 2                                                            | 211.70          | 29.3 QP                 | 43.50          | -14.20      | 1.07V              | 0                    | 18.10            | 9.69                | 1.48              | 0.00                 | -11.17                 |
| 3                                                            | 244.80          | 30.9 QP                 | 46.00          | -15.10      | 1.01V              | 138                  | 17.60            | 11.70               | 1.64              | 0.00                 | -13.34                 |
| 4                                                            | *911.97         | 79.9 PK                 | 114.00         | -34.10      | 2.02V              | 33                   | 82.40            | 20.90               | 3.63              | 27.00                | 2.46                   |
| 5                                                            | *912.00         | 76.5 QP                 | 94.00          | -17.50      | 2.02V              | 33                   | 52.00            | 20.90               | 3.63              | 0.00                 | -24.54                 |
| 6                                                            | 926.00          | 36.4 QP                 | 46.00          | -9.60       | 1.03V              | 333                  | 11.70            | 21.00               | 3.68              | 0.00                 | -24.69                 |

**NOTE:**

1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
2. Correction Factor(dB) = Pre-Amplifier Factor (dB) - Antenna Factor (dB) - Cable Factor (dB)
3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
4. The other emission levels were very low against the limit.
5. Margin value = Emission level – Limit value.
6. “\*” = Fundamental frequency

|                                 |                                 |                              |                |
|---------------------------------|---------------------------------|------------------------------|----------------|
| <b>EUT</b>                      | RF Flex Pointer                 | <b>MODEL</b>                 | TSAM-004       |
| <b>MODE</b>                     | Channel 1                       | <b>FREQUENCY RANGE</b>       | Above 1 GHz    |
| <b>INPUT POWER</b>              | 3VDC                            | <b>DETECTOR FUNCTION</b>     | Peak / Average |
| <b>ENVIRONMENTAL CONDITIONS</b> | 16 deg. C, 70 % RH,<br>1050 hPa | <b>TESTED BY:</b> Gary Chang |                |

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

| No. | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB) | Cable Factor (dB) | Pre-Amp. Factor (dB) | Correction Factor (dB) |
|-----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|---------------------|-------------------|----------------------|------------------------|
| 1   | 1824.00         | 48.9 PK                 | 74.00          | -25.10      | 1.08H              | 29                   | 53.00            | 25.29               | 5.67              | 35.05                | 4.09                   |
| 2   | 2736.00         | 48.3 PK                 | 74.00          | -25.70      | 1.04H              | 236                  | 50.00            | 28.09               | 5.21              | 34.95                | 1.65                   |
| 3   | 3648.00         | 45.4 PK                 | 74.00          | -28.60      | 1.60H              | 3                    | 45.00            | 28.91               | 6.26              | 34.72                | -0.45                  |

**NOTE:**

1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
2. Correction Factor(dB) = Pre-Amplifier Factor (dB) - Antenna Factor (dB) - Cable Factor (dB)
3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
4. The other emission levels were very low against the limit.
5. Margin value = Emission level – Limit value.

|                                 |                                 |                              |                |
|---------------------------------|---------------------------------|------------------------------|----------------|
| <b>EUT</b>                      | RF Flex Pointer                 | <b>MODEL</b>                 | TSAM-004       |
| <b>MODE</b>                     | Channel 1                       | <b>FREQUENCY RANGE</b>       | Above 1 GHz    |
| <b>INPUT POWER</b>              | 3VDC                            | <b>DETECTOR FUNCTION</b>     | Peak / Average |
| <b>ENVIRONMENTAL CONDITIONS</b> | 16 deg. C, 70 % RH,<br>1050 hPa | <b>TESTED BY:</b> Gary Chang |                |

| <b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b> |                 |                         |                |             |                    |                      |                  |                     |                   |                      |                        |
|--------------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|---------------------|-------------------|----------------------|------------------------|
| No.                                                          | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Antenna Factor (dB) | Cable Factor (dB) | Pre-Amp. Factor (dB) | Correction Factor (dB) |
| 1                                                            | 1824.00         | 46.9 PK                 | 74.00          | -27.10      | 1.22V              | 237                  | 51.00            | 25.29               | 5.67              | 35.05                | 4.09                   |
| 2                                                            | 2736.00         | 45.3 PK                 | 74.00          | -28.70      | 1.58V              | 318                  | 47.00            | 28.09               | 5.21              | 34.95                | 1.65                   |
| 3                                                            | 3648.00         | 46.8 PK                 | 74.00          | -27.20      | 1.46V              | 96                   | 46.40            | 28.91               | 6.26              | 34.72                | -0.44                  |

**NOTE:**

1. Emission level(dBuV/m)=Raw Value(dBuV) – Correction Factor(dB)
2. Correction Factor(dB) = Pre-Amplifier Factor (dB) - Antenna Factor (dB) - Cable Factor (dB)
3. Pre-Amplifier Factor (dB) = 0, when the test receiver is used to read the value and because it did not use the Pre-Amplifier.
4. The other emission levels were very low against the limit.
5. Margin value = Emission level – Limit value.

### 4.3 BAND EDGES MEASUREMENT

#### 4.3.1 LIMITS OF BAND EDGES MEASUREMENT

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

#### 4.3.2 TEST INSTRUMENTS

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------|-----------|------------|------------------|
| SPECTRUM ANALYZER          | FSEK30    | 100049     | July 17, 2002    |

**NOTE:**

- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2.The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

#### 4.3.3 TEST PROCEDURE

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

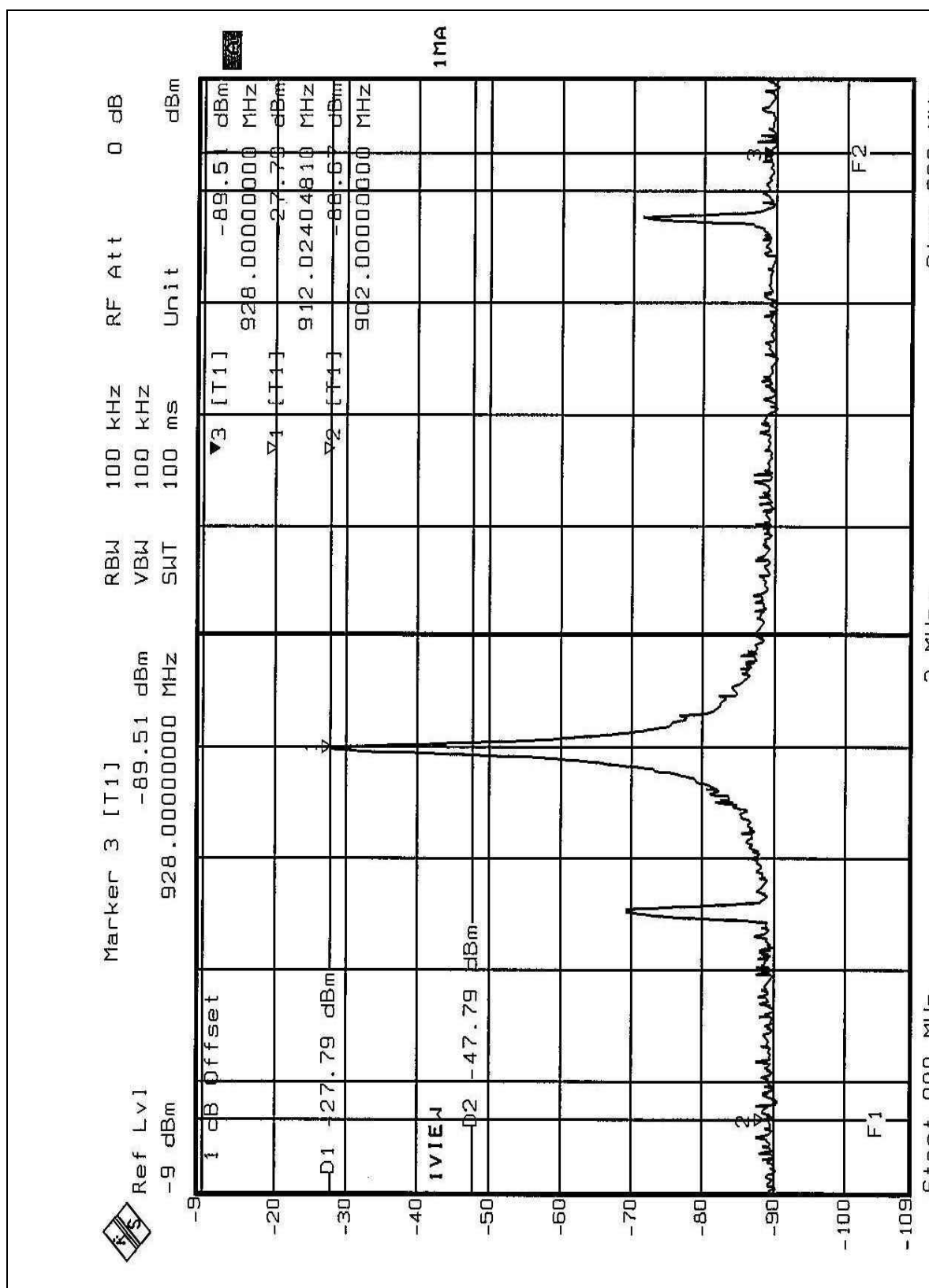


#### 4.3.4 EUT OPERATING CONDITION

Same as Item 3.4.5

#### 4.3.5 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 15.249(C).



## 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). If you have any comments, please feel free to contact us at the following:

**Lin Kou EMC Lab:**

Tel: 886-2-26052180  
Fax: 886-2-26052943

**Hsin Chu EMC Lab:**

Tel: 886-35-935343  
Fax: 886-35-935342

**Lin Kou Safety Lab:**

Tel: 886-2-26093195  
Fax: 886-2-26093184

**Lin Kou RF&Telecom Lab:**

Tel: 886-3-3270910  
Fax: 886-3-3270892

**Email:** [service@mail.adt.com.tw](mailto:service@mail.adt.com.tw)

**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

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