

# FCC TEST REPORT

**REPORT NO. :** RF950221A11

**MODEL NO. :** 9029URF III

**RECEIVED :** Feb. 23, 2006

**TESTED :** Feb. 28 ~ Mar. 22, 2006

**ISSUED :** Mar. 27, 2006

**APPLICANT :** BEHAVIOR TECH COMPUTER CORP.

**ADDRESS :** 2F, 51, Tung Hsing Rd., Taipei, Taiwan, R.O.C.

**ISSUED BY :** Advance Data Technology Corporation

**LAB LOCATION :** No. 47, 14<sup>th</sup> Ling, Chia Pau Tsuen, Lin Kou Hsiang  
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## 1. CERTIFICATION

**PRODUCT :** Wireless Keyboard  
**BRAND NAME :** BTC, EMPREX, acer, MEDION  
**MODEL NO. :** 9029URF III  
**TEST SAMPLE :** ENGINEERING SAMPLE  
**APPLICANT :** BEHAVIOR TECH COMPUTER CORP.  
**TESTED :** Feb. 28 ~ Mar. 22, 2006  
**STANDARDS :** FCC Part 15, Subpart C (Section 15.249)  
ANSI C63.4-2003

The above equipment has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY :** Annie Chang , **DATE:** Mar. 27, 2006  
( Annie Chang )

**TECHNICAL**  
**ACCEPTANCE :** Ken Liu , **DATE:** Mar. 27, 2006  
Responsible for RF ( Ken Liu )

**APPROVED BY :** Gary Chang , **DATE:** Mar. 27, 2006  
( Gary Chang / Supervisor )

## 2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C (Section 15.249)			
STANDARD PARAGRAPH	TEST TYPE	RESULT	REMARK
15.207	Conducted Emission Test	N/A	Power supply is 6Vdc from batteries
15.209 15.249 15.249 (d)	Radiated Emission Test Band Edge Measurement Limit: 50dB less than the peak value of fundamental frequency or meet radiated emission limit in section 12.209	PASS	Minimum passing margin is -1.58dB at 2435.00MHz

### 2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Uncertainty
Radiated emissions	3.86 dB

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>EUT</b>	Wireless Keyboard
<b>MODEL NO.</b>	9029URF III
<b>FCC ID</b>	E5XKB9029URF3
<b>POWER SUPPLY</b>	6.0Vdc from batteries
<b>MODULATION TYPE</b>	GFSK
<b>RADIO TECHNOLOGY</b>	FHSS
<b>FREQUENCY RANGE</b>	2410MHz ~ 2473MHz
<b>NUMBER OF CHANNEL</b>	64
<b>ANTENNA TYPE</b>	Printed Antenna
<b>DATA CABLE</b>	N/A
<b>I/O PORT</b>	N/A

#### NOTE:

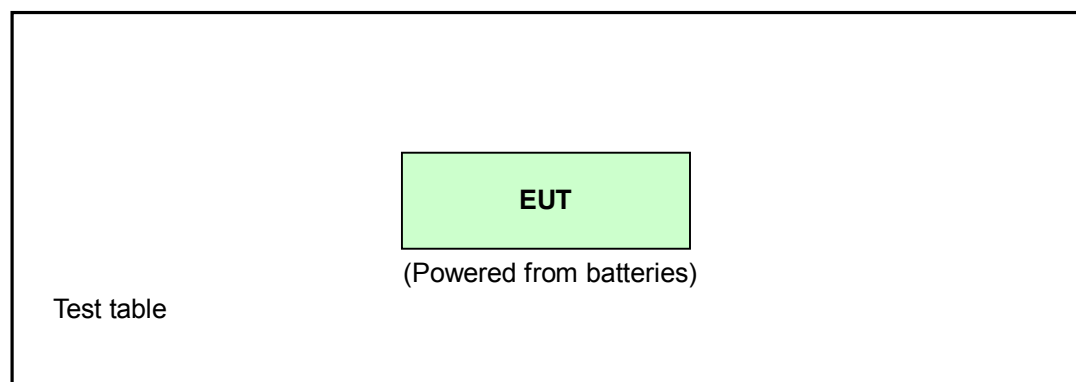
1. The EUT is a wireless keyboard.
2. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

## 3.2 DESCRIPTION OF TEST MODES

Sixty-four channels are provided to this EUT:

CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)
1	2410	17	2426	33	2442	49	2458
2	2411	18	2427	34	2443	50	2459
3	2412	19	2428	35	2444	51	2460
4	2413	20	2429	36	2445	52	2461
5	2414	21	2430	37	2446	53	2462
6	2415	22	2431	38	2447	54	2463
7	2416	23	2431	39	2448	55	2464
8	2417	24	2433	40	2449	56	2465
9	2418	25	2434	41	2450	57	2466
10	2419	26	2435	42	2451	58	2467
11	2420	27	2436	43	2452	59	2468
12	2421	28	2437	44	2453	60	2469
13	2422	29	2438	45	2454	61	2470
14	2423	30	2439	46	2455	62	2471
15	2424	31	2440	47	2456	63	2472
16	2425	32	2441	48	2457	64	2473

### 3.2.1 CONFIGURATION OF SYSTEM UNDER TEST



### 3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT Configure Mode	Applicable to				Description
	PLC	RE<1G	RE≥1G	APCM	
-	Note	√	√	√	N/A

Where     PLC: Power Line Conducted Emission  
              RE<1G: Radiated Emission below 1GHz  
              RE≥1G: Radiated Emission above 1GHz  
              APCM: Antenna Port Conducted Measurement

Note : Conducted RF measurement is independent of power supply.

#### **Radiated Emission Test (Below 1 GHz):**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X, Y, Z Axis and antenna ports (if EUT with antenna diversity architecture).

- ☒ Following channel(s) was (were) selected for the final test as listed below.

Available Channel	Tested Channel	Radio Technology	Modulation Type	Axis
1 to 64	26	FHSS	GFSK	X

#### **Radiated Emission Test (Above 1 GHz):**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X, Y, Z Axis and antenna ports (if EUT with antenna diversity architecture).

- ☒ Following channel(s) was (were) selected for the final test as listed below.

Available Channel	Tested Channel	Radio Technology	Modulation Type	Axis
1 to 64	1, 26, 64	FHSS	GFSK	X

#### **Bandedge Measurement:**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

- ☒ Following channel(s) was (were) selected for the final test as listed below.

Available Channel	Tested Channel	Radio Technology	Modulation Type
1 to 64	1, 64	FHSS	GFSK

### **3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS**

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

**FCC Part 15, Subpart C (Section 15.249)**

**ANSI C63.4-2003**

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

**NOTE:** The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

### **3.4 DESCRIPTION OF SUPPORT UNITS**

The EUT has been tested as an independent.



## 4. TEST TYPES AND RESULTS

### 4.1 CONDUCTED EMISSION MEASUREMENT

N/A

### 4.2 RADIATED EMISSION MEASUREMENT

#### 4.2.1 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

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
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.

## 4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	May 22, 2006
HP Preamplifier	8449B	3008A01924	Sep. 06, 2006
HP Preamplifier	8449B	3008A01638	Sep. 21, 2006
ROHDE & SCHWARZ TEST RECEIVER	ESI7	836697/012	Nov. 01, 2006
Schwarzbeck Antenna	VULB 9168	137	Feb. 21, 2007
Schwarzbeck Antenna	VHBA 9123	480	Apr. 11, 2006
EMCO Horn Antenna	3115	6714	Oct. 26, 2006
EMCO Horn Antenna	3115	9312-4192	Mar. 14, 2007
ADT. Turn Table	TT100	0306	NA
ADT. Tower	AT100	0306	NA
Software	ADT_Radiated_V 7.6.011	NA	NA
TIMES RF cable	LL142	CABLE-CH6-01	Dec. 19, 2006
ROHDE & SCHWARZ Spectrum Analyzer	FSP 40	100035	Apr. 13, 2006

- 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. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
  3. The test was performed in ADT Chamber No. 6.
  4. The Industry Canada Reference No. IC 3789-6.

### 4.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. 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.

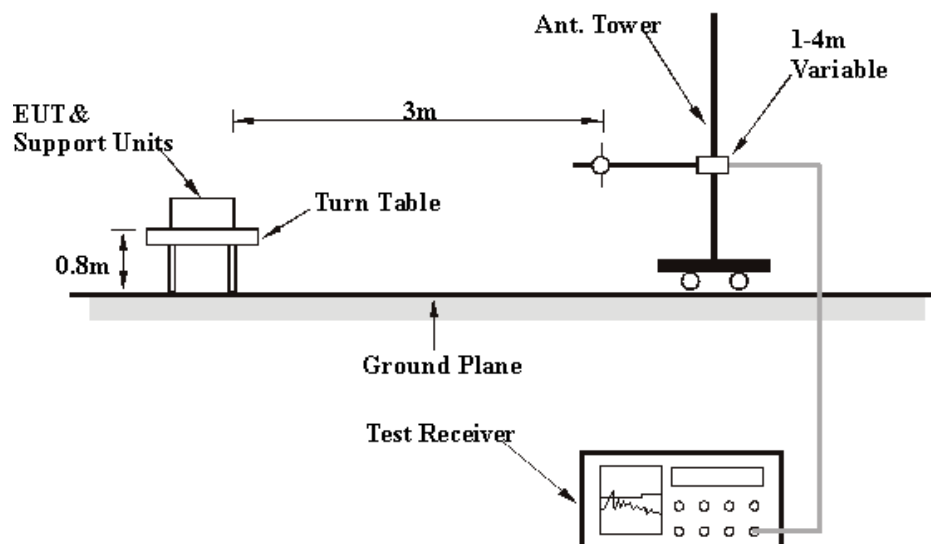
**NOTE:**

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

### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

## 4.2.5 TEST SETUP



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

## 4.2.6 EUT OPERATING CONDITIONS

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

## 4.2.7 TEST RESULTS

### RADIATED WORST CASE DATA: BELOW 1GHz

<b>MODULATION TYPE</b>	GFSK	<b>CHANNEL</b>	26
<b>INPUT POWER</b>	6Vdc	<b>FREQUENCY RANGE</b>	Below 1 GHz
<b>ENVIRONMENTAL CONDITIONS</b>	18 deg. C, 78% RH, 1008 hPa	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>TESTED BY</b>	Jamison Chan		

### 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	214.67	29.67 QP	43.50	-13.83	1.00 H	34	18.49	11.18
2	259.38	34.40 QP	46.00	-11.60	1.25 H	16	22.08	12.32
3	457.66	30.62 QP	46.00	-15.38	2.00 H	13	11.98	18.63
4	492.65	29.39 QP	46.00	-16.61	1.75 H	19	9.78	19.61
5	636.49	28.73 QP	46.00	-17.27	1.25 H	25	6.18	22.55
6	675.37	28.13 QP	46.00	-17.87	1.25 H	37	5.01	23.12

### 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	43.61	26.28 QP	40.00	-13.72	1.00 V	58	11.32	14.96
2	784.23	24.56 QP	46.00	-21.44	1.25 V	193	-1.07	25.63
3	817.27	24.46 QP	46.00	-21.54	3.00 V	175	-1.35	25.82
4	848.38	25.41 QP	46.00	-20.59	1.25 V	226	-0.75	26.15
5	902.81	30.60 QP	46.00	-15.40	1.00 V	163	3.54	27.06
6	949.46	26.36 QP	46.00	-19.64	1.50 V	304	-1.19	27.55

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  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.

### RADIATED WORST CASE DATA: ABOVE 1GHz

<b>MODULATION TYPE</b>	GFSK	<b>CHANNEL</b>	1
<b>INPUT POWER</b>	6Vdc	<b>FREQUENCY RANGE</b>	1 ~ 25 GHz
<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 80% RH, 1008 hPa	<b>DETECTOR FUNCTION</b>	Peak (PK) Average (AV)
<b>TESTED BY</b>	Jamison Chan		

### 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	2390.00	56.35 PK	74.00	-17.65	1.15 H	249	22.53	33.82
1	2390.00	46.60 AV	54.00	-7.40	1.15 H	249	12.78	33.82
2	*2410.00	92.94 PK	114.00	-21.06	1.15 H	249	59.06	33.88
2	*2410.00	92.28 AV	94.00	-1.72	1.15 H	249	58.40	33.88
3	4820.00	55.39 PK	74.00	-18.61	1.36 H	164	14.96	40.43
3	4820.00	48.40 AV	54.00	-5.60	1.36 H	164	7.97	40.43

### 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	2390.00	54.95 PK	74.00	-19.05	1.67 V	360	21.13	33.82
1	2390.00	44.87 AV	54.00	-9.13	1.67 V	360	11.05	33.82
2	*2410.00	83.34 PK	114.00	-30.66	1.67 V	360	49.46	33.88
2	*2410.00	82.81 AV	94.00	-11.19	1.67 V	360	48.93	33.88
3	4820.00	53.36 PK	74.00	-20.64	1.60 V	53	12.93	40.43
3	4820.00	41.74 AV	54.00	-12.26	1.60 V	53	1.31	40.43

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  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.
  5. “ \* ” : Fundamental frequency

<b>MODULATION TYPE</b>	GFSK	<b>CHANNEL</b>	26
<b>INPUT POWER</b>	6Vdc	<b>FREQUENCY RANGE</b>	1 ~ 25 GHz
<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 80% RH, 1008 hPa	<b>DETECTOR FUNCTION</b>	Peak (PK) Average (AV)
<b>TESTED BY</b>	Jamison Chan		

#### 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	*2435.00	92.87 PK	114.00	-21.13	1.20 H	77	58.93	33.94
<b>1</b>	<b>*2435.00</b>	<b>92.42 AV</b>	<b>94.00</b>	<b>-1.58</b>	<b>1.20 H</b>	<b>77</b>	<b>58.48</b>	<b>33.94</b>
2	4870.00	57.28 PK	74.00	-16.72	1.09 H	164	16.81	40.46
2	4870.00	52.14 AV	54.00	-1.86	1.09 H	164	11.67	40.46

#### 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	*2435.00	83.47 PK	114.00	-30.53	1.96 V	13	49.53	33.94
1	*2435.00	82.91 AV	94.00	-11.09	1.96 V	13	48.97	33.94
2	4870.00	53.68 PK	74.00	-20.32	1.23 V	231	13.21	40.46
2	4870.00	43.64 AV	54.00	-10.36	1.23 V	231	3.17	40.46

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  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.
  5. “ \* ” : Fundamental frequency

<b>MODULATION TYPE</b>	GFSK	<b>CHANNEL</b>	64
<b>INPUT POWER</b>	6Vdc	<b>FREQUENCY RANGE</b>	1 ~ 25 GHz
<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 80% RH, 1008 hPa	<b>DETECTOR FUNCTION</b>	Peak (PK) Average (AV)
<b>TESTED BY</b>	Jamison Chan		

#### 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	*2473.00	91.31 PK	114.00	-22.69	1.10 H	241	57.27	34.04
1	*2473.00	90.67 AV	94.00	-3.33	1.10 H	241	56.63	34.04
2	2483.50	56.56 PK	74.00	-17.44	1.10 H	241	22.50	34.06
2	2483.50	47.05 AV	54.00	-6.95	1.10 H	241	12.99	34.06
3	4946.00	57.32 PK	74.00	-16.68	1.03 H	162	16.74	40.58
3	4946.00	50.75 AV	54.00	-3.25	1.03 H	162	10.17	40.58

#### 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	*2473.00	82.15 PK	114.00	-31.85	1.89 V	360	48.11	34.04
1	*2473.00	81.51 AV	94.00	-12.49	1.89 V	360	47.47	34.04
2	2483.50	57.24 PK	74.00	-16.76	1.89 V	360	23.18	34.06
2	2483.50	46.76 AV	54.00	-7.24	1.89 V	360	12.70	34.06
3	4946.00	52.61 PK	74.00	-21.39	1.15 V	15	12.03	40.58
3	4946.00	43.96 AV	54.00	-10.04	1.15 V	15	3.38	40.58

- REMARKS:**
1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
  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.
  5. “ \* ” : Fundamental frequency



## 4.3 BAND EDGES MEASUREMENT

### 4.3.1 LIMITS OF BAND EDGES MEASUREMENT

Below –50dB 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	FSP 40	100036	Apr. 13. 2006

**NOTE:** 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 loss cable. Set both RBW and VBW of spectrum analyzer to 100 kHz and 100 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots are attached on the following pages.

### 4.3.4 DEVIATION FROM TEST STANDARD

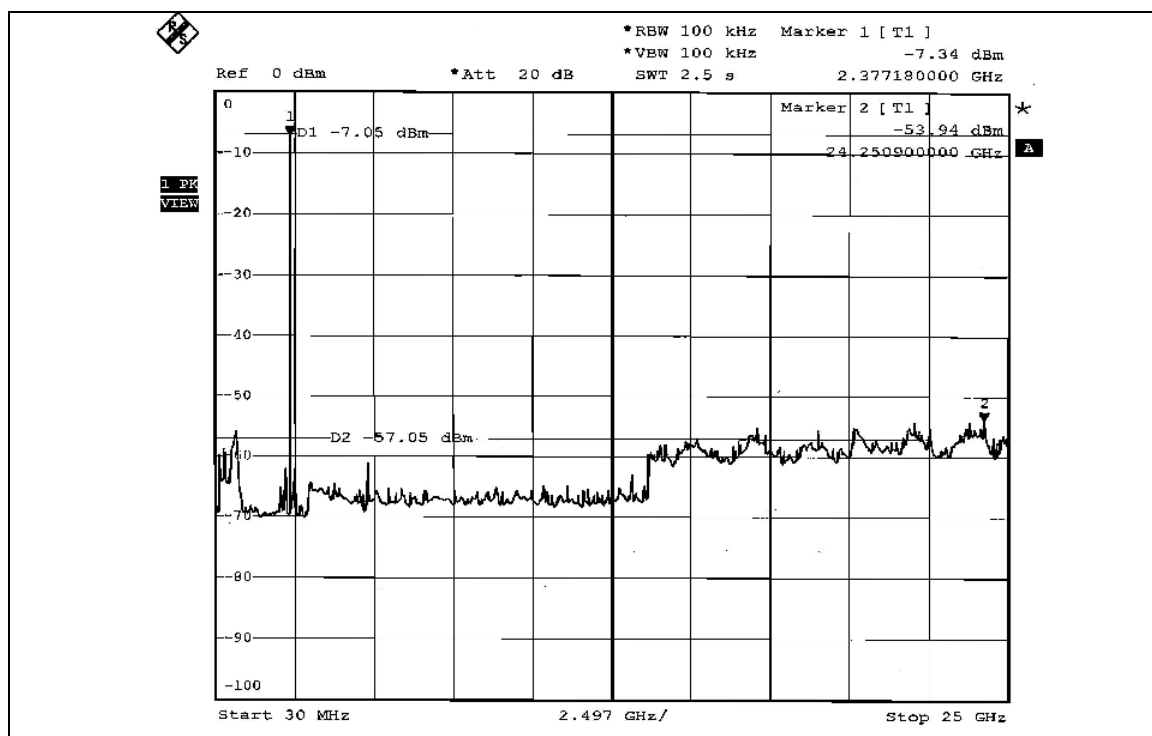
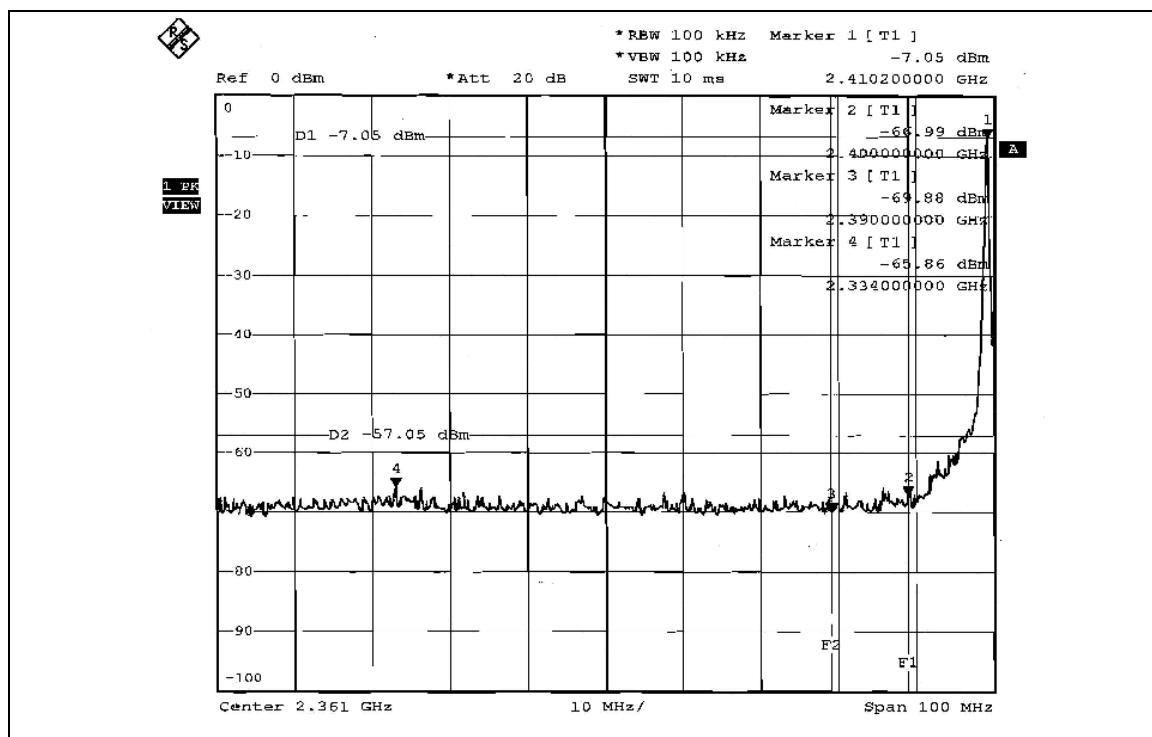
No deviation.

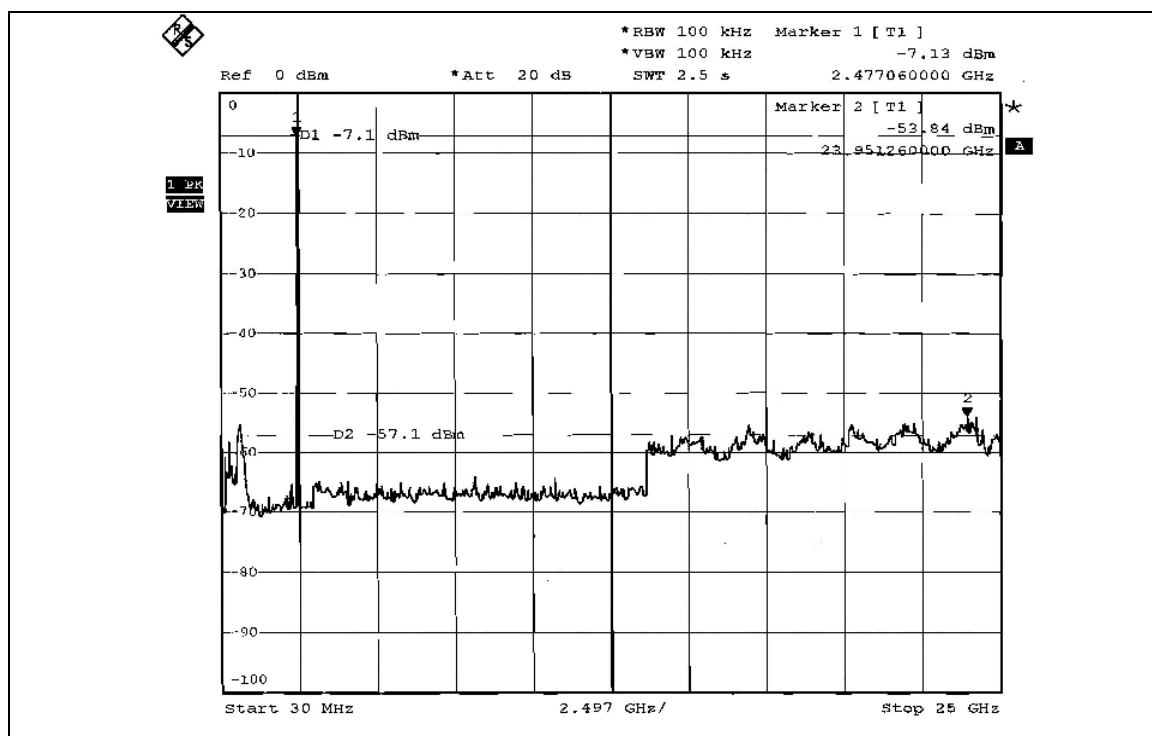
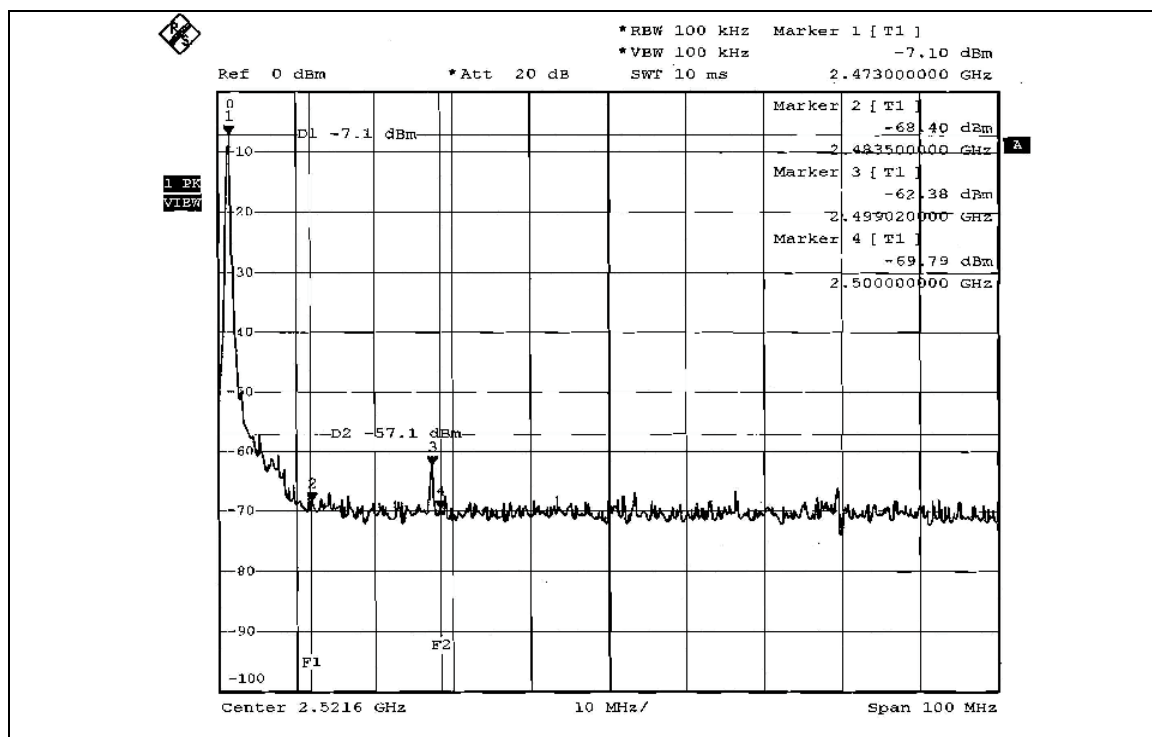
### 4.3.5 EUT OPERATING CONDITION

Same as Item 4.2.6.

### 4.3.6 TEST RESULTS

The spectrum plots are attached on the following 4 images. D1 line indicates the highest level, and D2 line indicates the 50dB offset below D1. It shows compliance with the requirement in part 15.249 (d).





## 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, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

<b>USA</b>	FCC, UL, A2LA
<b>Germany</b>	TUV Rheinland
<b>Japan</b>	VCCI
<b>Norway</b>	NEMKO
<b>Canada</b>	INDUSTRY CANADA , CSA
<b>R.O.C.</b>	CNLA, BSMI, DGT
<b>Netherlands</b>	Telefication
<b>Singapore</b>	PSB , GOST-ASIA(MOU)
<b>Russia</b>	CERTIS(MOU)

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:

### **Linko EMC/RF Lab**

Tel: 886-2-26052180

Fax: 886-2-26051924

### **Hsin Chu EMC/RF Lab**

Tel: 886-3-5935343

Fax: 886-3-5935342

### **Hwa Ya EMC/RF/Safety Telecom Lab**

Tel: 886-3-3183232

Fax: 886-3-3185050

**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

## **APPENDIX-A**

### **MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

No any modifications are made to the EUT by the lab during the test.