

# FCC TEST REPORT

**REPORT NO. :** RF960104A04A

**MODEL NO. :** MG-0637T

**RECEIVED :** Jan. 4, 2007

**TESTED :** Jan. 9 ~ 12, 2007

**ISSUED :** Feb. 2, 2007

**APPLICANT :** Chicony Electronics Co., Ltd.

**ADDRESS :** No. 25, Wu-Gong 6th Rd., Wu Ku Industrial Park,  
Taipei Hsien, Taiwan, R.O.C.

**ISSUED BY :** Advance Data Technology Corporation

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

**PRODUCT :** Wireless Mouse  
**BRAND NAME :** hp  
**MODEL NO. :** MG-0637T  
**TEST SAMPLE :** ENGINEERING SAMPLE  
**APPLICANT :** Chicony Electronics Co., Ltd.  
**TESTED :** Jan. 9 ~ 12, 2007  
**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:** Feb. 2, 2007  
( Annie Chang )

**TECHNICAL ACCEPTANCE** : Jamison Chan , **DATE:** Feb. 2, 2007  
Responsible for RF ( Jamison Chan )

**APPROVED BY :** Ken Liu , **DATE:** Feb. 2, 2007  
( Ken Liu / Deputy Manager )

## 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 3Vdc 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 -6.65 dB at 2483.50MHz

### 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	3.55 dB

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>EUT</b>	Wireless Mouse
<b>MODEL NO.</b>	MG-0637T
<b>FCC ID</b>	E8HMG-0637T
<b>POWER SUPPLY</b>	3.0Vdc from batteries
<b>MODULATION TYPE</b>	GFSK
<b>RADIO TECHNOLOGY</b>	DSSS
<b>FREQUENCY RANGE</b>	2402MHz ~2478MHz
<b>NUMBER OF CHANNEL</b>	77
<b>ANTENNA TYPE</b>	Strip antenna with -0.71dBi gain
<b>DATA CABLE</b>	N/A
<b>I/O PORT</b>	N/A

**NOTE:**

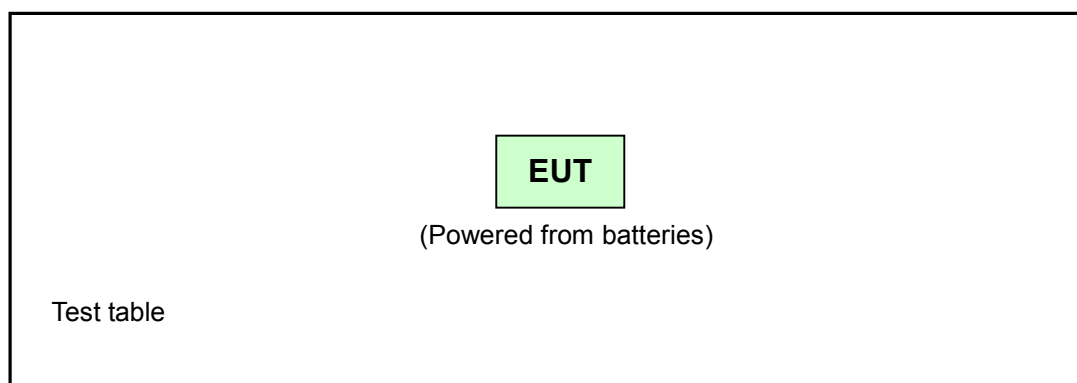
1. The EUT is a Wireless Mouse, which is a transceiver.
2. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

## 3.2 DESCRIPTION OF TEST MODES

Seventy-seven channels are provided to this EUT:

CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2431	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459		
18	2420	38	2440	58	2460		
19	2421	39	2441	59	2461		

### 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	√	√	√	NA

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

Note: No need to concern of Conducted Emission due to the EUT is powered by batteries.

#### **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 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
0 to 76	76	DSSS	GFSK

#### **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 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
0 to 76	0, 38, 76	DSSS	GFSK

#### **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
0 to 76	0, 76	DSSS	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.

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

The EUT has been tested as an independent unit.

## 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 21, 2007
HP Preamplifier	8449B	3008A01924	Sep. 05, 2007
HP Preamplifier	8449B	3008A01638	Sep. 17, 2007
ROHDE & SCHWARZ TEST RECEIVER	ESI7	836697/012	Oct. 24, 2007
Schwarzbeck Antenna	VULB 9168	137	Feb. 21, 2007
Schwarzbeck Antenna	VHBA 9123	480	Mar. 30, 2007
EMCO Horn Antenna	3115	6714	Oct. 24, 2007
EMCO Horn Antenna	3115	9312-4192	Mar. 14, 2007
ADT. Turn Table	TT100	0306	NA
ADT. Tower	AT100	0306	NA
Software	ADT_Radiated_V7.6.011	NA	NA
SUHNER RF cable	SF104-26.5	CABLE-CH6-17m-01	Dec. 11, 2007
ROHDE & SCHWARZ Spectrum Analyzer	FSP 40	100036	Mar. 16. 2007

- 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 meter semi- anechoic. 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 lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak method or average method as specified and then reported in data sheet.

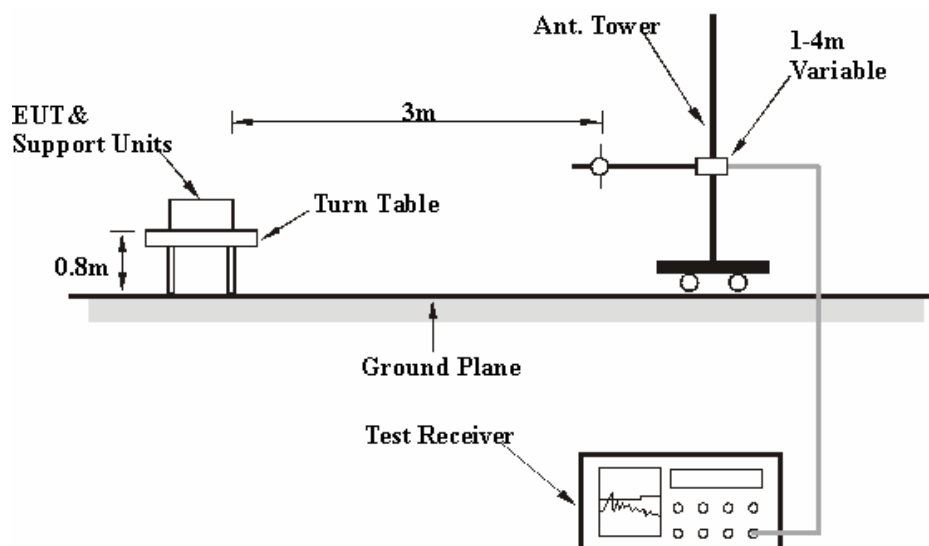
#### NOTE:

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

### 4.2.4 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>	76
<b>INPUT POWER</b>	3.0Vdc	<b>FREQUENCY RANGE</b>	Below 1 GHz
<b>ENVIRONMENTAL CONDITIONS</b>	20deg. C, 70% RH, 1010hPa	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>TESTED BY</b>	Jun Wu		

### 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	37.78	31.01 QP	40.00	-8.99	1.42 H	133	17.56	13.45
2	261.32	20.71 QP	46.00	-25.29	1.38 H	283	6.65	14.06
3	784.23	25.45 QP	46.00	-20.55	1.08 H	250	-1.46	26.91
4	828.94	25.36 QP	46.00	-20.64	1.27 H	331	-2.07	27.43
5	860.04	26.21 QP	46.00	-19.79	1.14 H	121	-1.63	27.84
6	955.29	27.76 QP	46.00	-18.24	1.04 H	355	-2.10	29.86

### 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	39.72	31.16 QP	40.00	-8.84	1.00 V	178	17.41	13.75
2	799.78	25.21 QP	46.00	-20.79	1.27 V	46	-1.90	27.11
3	834.77	25.76 QP	46.00	-20.24	1.38 V	25	-1.73	27.49
4	865.87	26.71 QP	46.00	-19.29	1.24 V	232	-1.23	27.94
5	902.81	26.71 QP	46.00	-19.29	1.16 V	244	-1.91	28.62
6	953.35	28.56 QP	46.00	-17.44	1.27 V	343	-1.30	29.86

- 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>	0
<b>INPUT POWER</b>	3.0Vdc	<b>FREQUENCY RANGE</b>	1 ~ 25 GHz
<b>ENVIRONMENTAL CONDITIONS</b>	20deg. C, 70% RH, 1010hPa	<b>DETECTOR FUNCTION</b>	Peak (PK) Average (AV)
<b>TESTED BY</b>	Jun Wu		

### 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	1604.00	42.15 PK	74.00	-31.85	1.24 H	93	9.85	32.30
2	1604.00	33.21 AV	54.00	-20.79	1.24 H	93	0.91	32.30
3	2352.00	64.89 PK	74.00	-9.11	1.10 H	360	30.28	34.61
4	2352.00	47.03 AV	54.00	-6.97	1.10 H	360	12.42	34.61
5	2390.00	64.06 PK	74.00	-9.94	1.10 H	360	29.36	34.70
6	2390.00	46.82 AV	54.00	-7.18	1.10 H	360	12.12	34.70
7	*2402.00	96.62 PK	114.00	-17.38	1.10 H	360	61.90	34.72
8	*2402.00	81.54 AV	94.00	-12.46	1.10 H	360	46.82	34.72
9	4804.00	56.93 PK	74.00	-17.07	1.04 H	88	15.24	41.69
10	4804.00	41.85 AV	54.00	-12.15	1.04 H	88	0.16	41.69
11	7206.00	55.90 PK	74.00	-18.10	1.06 H	1	8.71	47.19
12	7206.00	40.82 AV	54.00	-13.18	1.06 H	1	-6.37	47.19

### 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	1604.00	42.09 PK	74.00	-31.91	1.05 V	222	9.79	32.30
2	1604.00	31.84 AV	54.00	-22.16	1.05 V	222	-0.46	32.30
3	2352.00	58.82 PK	74.00	-15.18	1.36 V	58	24.21	34.61
4	2352.00	47.29 AV	54.00	-6.71	1.36 V	58	12.68	34.61
5	2390.00	58.09 PK	74.00	-15.91	1.36 V	58	23.39	34.70
6	2390.00	46.83 AV	54.00	-7.17	1.36 V	58	12.13	34.70
7	*2402.00	83.15 PK	114.00	-30.85	1.36 V	58	48.43	34.72
8	*2402.00	68.07 AV	94.00	-25.93	1.36 V	58	33.35	34.72
9	4804.00	55.65 PK	74.00	-18.35	1.05 V	64	13.96	41.69
10	4804.00	40.57 AV	54.00	-13.43	1.05 V	64	-1.12	41.69
11	7206.00	55.89 PK	74.00	-18.11	1.00 V	7	8.70	47.19
12	7206.00	40.81 AV	54.00	-13.19	1.00 V	7	-6.38	47.19

- 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>	38
<b>INPUT POWER</b>	3.0Vdc	<b>FREQUENCY RANGE</b>	1 ~ 25 GHz
<b>ENVIRONMENTAL CONDITIONS</b>	20deg. C, 70% RH, 1010hPa	<b>DETECTOR FUNCTION</b>	Peak (PK) Average (AV)
<b>TESTED BY</b>	Jun Wu		

#### 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	1628.00	42.86 PK	74.00	-31.14	1.54 H	332	10.47	32.39
2	1628.00	34.25 AV	54.00	-19.75	1.54 H	332	1.86	32.39
3	*2440.00	96.68 PK	114.00	-17.32	1.32 H	17	61.87	34.81
4	*2440.00	81.60 AV	94.00	-12.40	1.32 H	17	46.79	34.81
5	4880.00	61.23 PK	74.00	-12.77	1.12 H	74	19.34	41.89
6	4880.00	46.15 AV	54.00	-7.85	1.12 H	74	4.26	41.89
7	7320.00	57.03 PK	74.00	-16.97	1.33 H	110	9.51	47.52
8	7320.00	41.95 AV	54.00	-12.05	1.33 H	110	-5.57	47.52

#### 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	1628.00	41.99 PK	74.00	-32.01	1.00 V	171	9.60	32.39
2	1628.00	30.12 AV	54.00	-23.88	1.00 V	171	-2.27	32.39
3	*2440.00	84.71 PK	114.00	-29.29	1.37 V	58	49.90	34.81
4	*2440.00	69.63 AV	94.00	-24.37	1.37 V	58	34.82	34.81
5	4880.00	57.98 PK	74.00	-16.02	1.17 V	63	16.09	41.89
6	4880.00	42.90 AV	54.00	-11.10	1.17 V	63	1.01	41.89
7	7320.00	56.01 PK	74.00	-17.99	1.52 V	260	8.49	47.52
8	7320.00	40.93 AV	54.00	-13.07	1.52 V	260	-6.59	47.52

- 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>	76
<b>INPUT POWER</b>	3.0Vdc	<b>FREQUENCY RANGE</b>	1 ~ 25 GHz
<b>ENVIRONMENTAL CONDITIONS</b>	20deg. C, 70% RH, 1010hPa	<b>DETECTOR FUNCTION</b>	Peak (PK) Average (AV)
<b>TESTED BY</b>	Jun Wu		

#### 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	1654.00	43.75 PK	74.00	-30.25	1.06 H	148	11.26	32.49
2	1654.00	32.61 AV	54.00	-21.39	1.06 H	148	0.12	32.49
3	*2478.00	96.49 PK	114.00	-17.51	1.30 H	357	61.60	34.89
4	*2478.00	81.41 AV	94.00	-12.59	1.30 H	357	46.52	34.89
5	2483.50	66.84 PK	74.00	-7.16	1.30 H	357	31.94	34.90
<b>6</b>	<b>2483.50</b>	<b>47.35 AV</b>	<b>54.00</b>	<b>-6.65</b>	<b>1.30 H</b>	<b>357</b>	<b>12.45</b>	<b>34.90</b>
7	4956.00	62.40 PK	74.00	-11.60	1.11 H	75	20.31	42.09
8	4956.00	47.32 AV	54.00	-6.68	1.11 H	75	5.23	42.09
9	7432.00	57.66 PK	74.00	-16.34	1.00 H	185	9.83	47.84
10	7432.00	42.58 AV	54.00	-11.42	1.00 H	185	-5.25	47.84

#### 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	1654.00	43.28 PK	74.00	-30.72	1.01 V	73	10.79	32.49
2	1654.00	33.35 AV	54.00	-20.65	1.01 V	73	0.86	32.49
3	*2478.00	83.54 PK	114.00	-30.46	1.14 V	44	48.65	34.89
4	*2478.00	68.46 AV	94.00	-25.54	1.14 V	44	33.57	34.89
5	2483.50	58.33 PK	74.00	-15.67	1.14 V	44	23.43	34.90
6	2483.50	47.07 AV	54.00	-6.93	1.14 V	44	12.17	34.90
7	4956.00	57.63 PK	74.00	-16.37	1.03 V	61	15.54	42.09
8	4956.00	42.55 AV	54.00	-11.45	1.03 V	61	0.46	42.09
9	7432.00	57.78 PK	74.00	-16.22	1.31 V	3	9.95	47.84
10	7432.00	42.70 AV	54.00	-11.30	1.31 V	3	-5.13	47.84

- 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	Mar. 16. 2007

**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

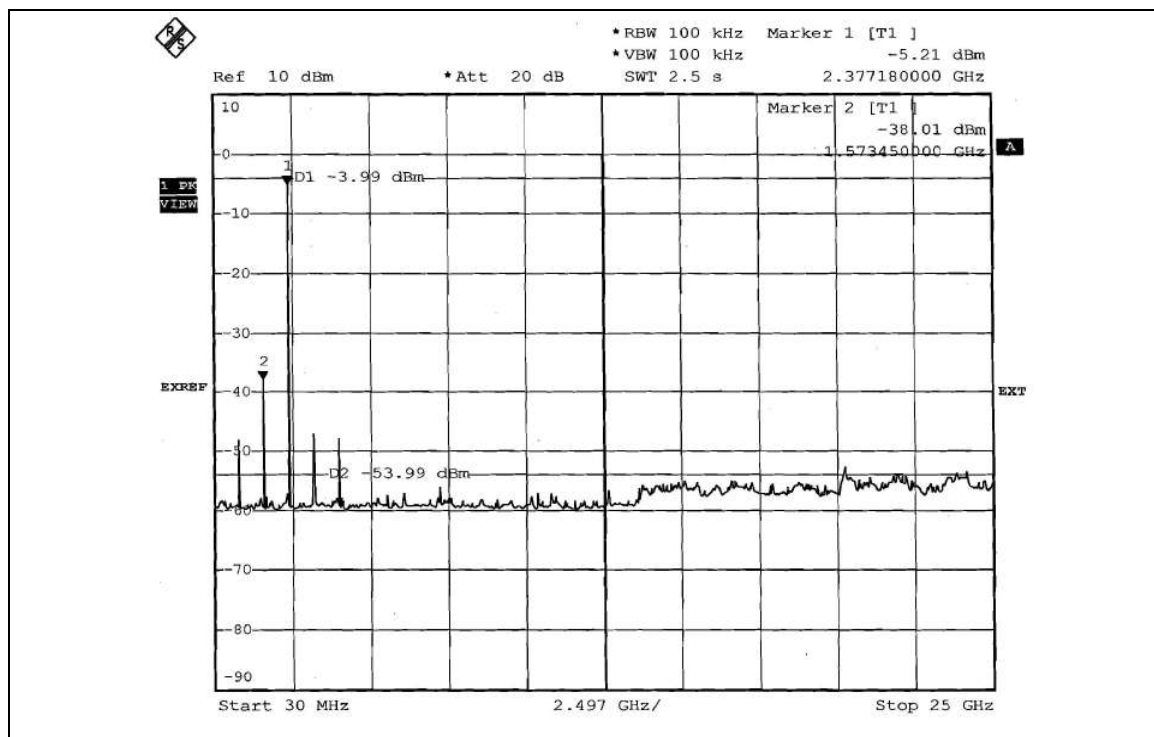
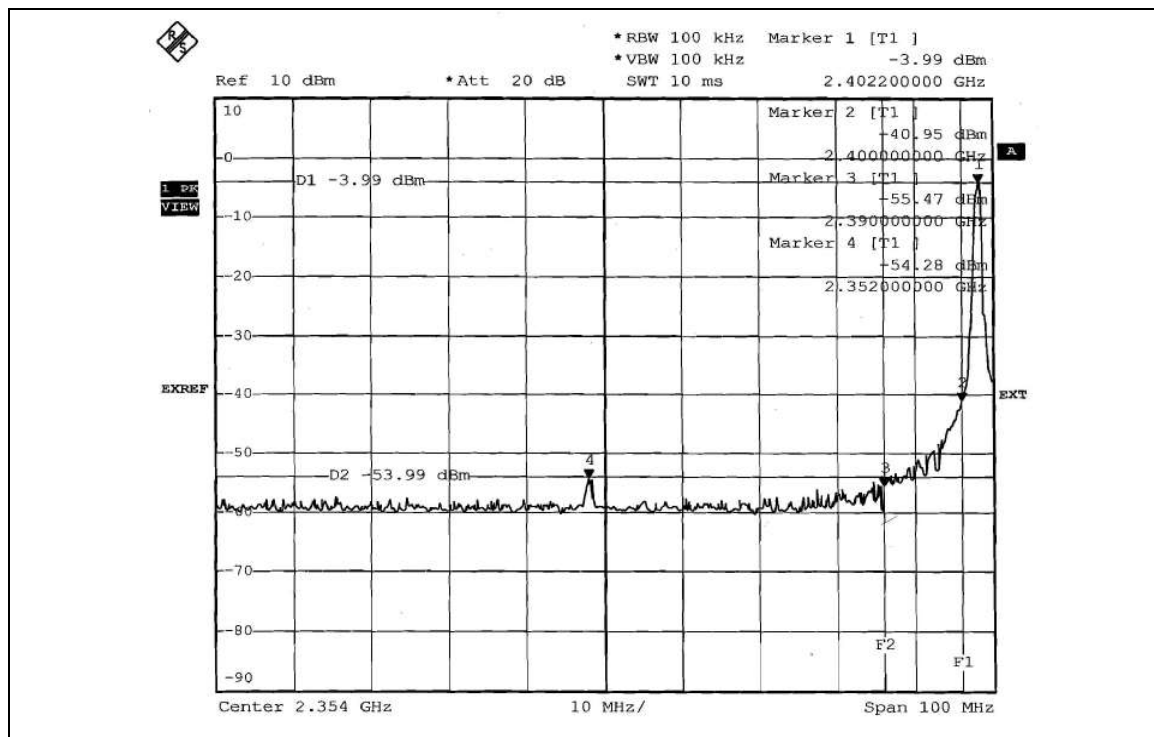
No deviation.

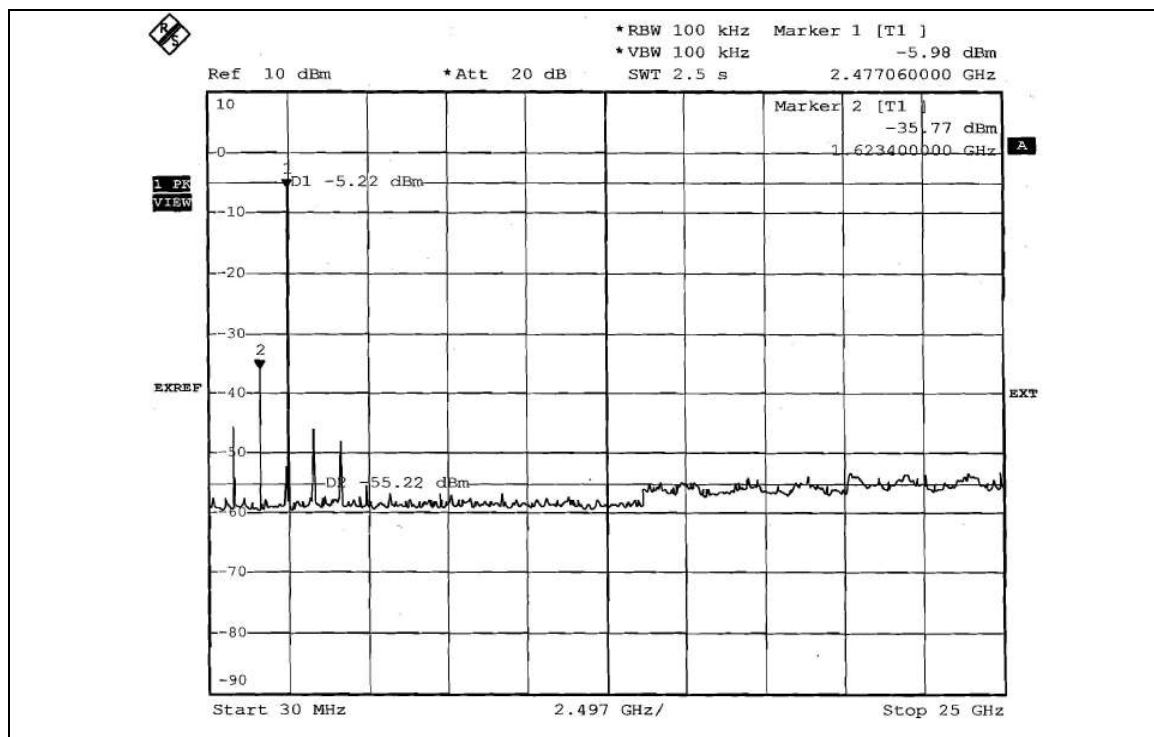
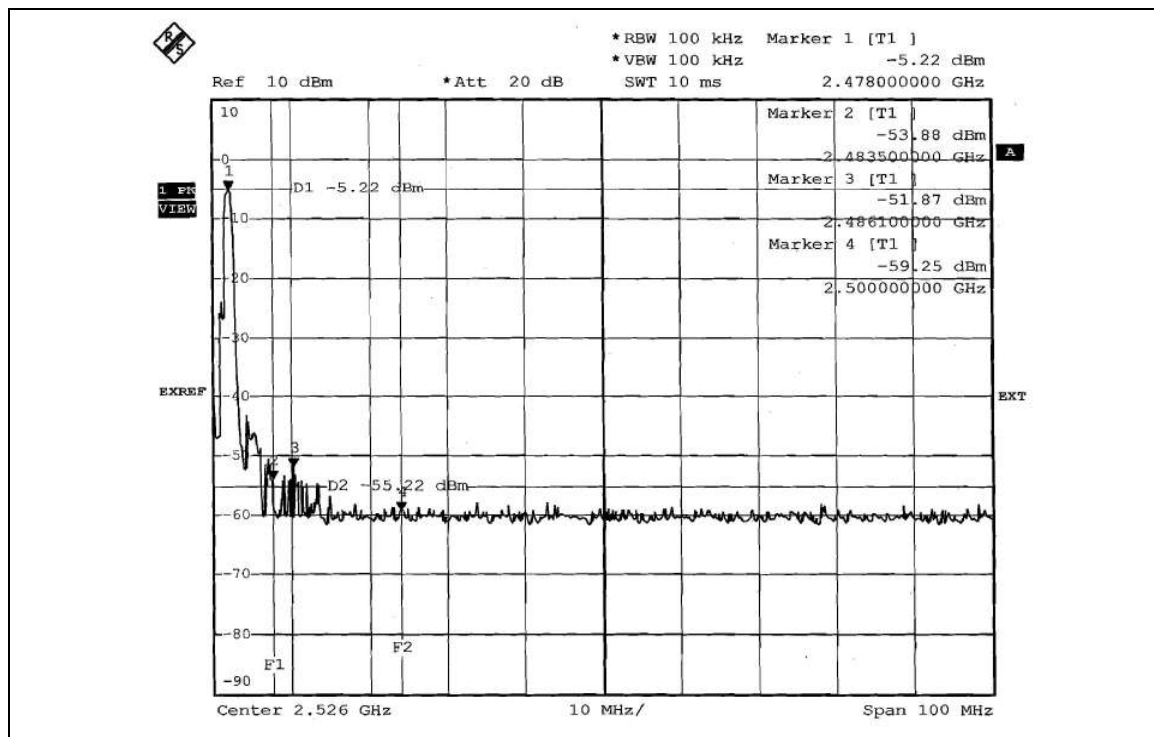
### 4.3.5 EUT OPERATING CONDITION

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. 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, NCC
<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.