



# FCC TEST REPORT

**REPORT NO.:** RF960823A05

**MODEL NO.:** MS01, MORFBVUO

**RECEIVED:** Aug. 23, 2007

**TESTED:** Sep. 3 ~ 14, 2007

**ISSUED:** Sep. 17, 2007

**APPLICANT:** PRIMAX ELECTRONICS LTD.

**ADDRESS:** No. 669, Ruey Kuang Road, Neihu, Taipei,  
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:** Laser 2.4G 2-Way Wireless Travel Mice  
**MODEL NO.:** MS01 **BRAND NAME:** ICON7  
MORFBVUO **BRAND NAME:** PRIMAX  
**APPLICANT:** PRIMAX ELECTRONICS LTD.  
**TESTED:** Sep. 3 ~ 14, 2007  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**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 :** Celia Chen , **DATE:** Sep. 17, 2007  
( Celia Chen / Specialist )

**TECHNICAL  
ACCEPTANCE :** Jamison Chan , **DATE:** Sep. 17, 2007  
Responsible for RF  
( Jamison Chan / Senior Engineer )

**APPROVED BY :** Ken Liu , **DATE:** Sep. 17, 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 SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	Conducted Emission Test	N/A	Power supply is 1.5Vdc from battery
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 -12.97dB at 2483.500MHz

### 2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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

Measurement	Frequency	Uncertainty
Radiated emissions	30MHz ~ 1GHz	3.75 dB
	1GHz ~ 40GHz	2.89 dB



### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>EUT</b>	Laser 2.4G 2-Way Wireless Travel Mice
<b>MODEL NO.</b>	MS01, MORFBVUO
<b>FCC ID</b>	EMJMMORFBVUO
<b>POWER SUPPLY</b>	1.5Vdc from battery
<b>MODULATION TYPE</b>	GFSK
<b>FREQUENCY RANGE</b>	2402MHz ~ 2474MHz
<b>NUMBER OF CHANNEL</b>	13
<b>ANTENNA TYPE</b>	Printed antenna with 0dBi gain
<b>DATA CABLE</b>	N/A
<b>I/O PORTS</b>	N/A
<b>ASSOCIATED DEVICES</b>	N/A

#### NOTE:

1. The EUT is a Laser 2.4G 2-Way Wireless Travel Mice, which is a transceiver.
2. The EUT has two models as follows:

<b>Brand</b>	<b>Model</b>	<b>Differentiation</b>
ICON7	MS01	Marketing differentiation
PRIMAX	MORFBVUO	

For the test, model: **MS01** was selected as the representative model and its data was recorded in this report.

3. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



### 3.2 DESCRIPTION OF TEST MODES

Thirteen channels are provided to this EUT.

Channel	Freq. (MHz)	Channel	Freq. (MHz)
1	2402	8	2444
2	2408	9	2450
3	2414	10	2456
4	2420	11	2462
5	2426	12	2468
6	2432	13	2474
7	2438		

#### 3.2.1 CONFIGURATION OF SYSTEM UNDER TEST



Test Table

### 3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL:

EUT configure mode	Applicable to				Description
	PLC	RE<1G	RE≥1G	APCM	
-	Note	√	√	√	-

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 battery.

#### 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	MODULATION TYPE
1 to 13	13	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	MODULATION TYPE
1 to 13	1, 7, 13	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	MODULATION TYPE
1 to 13	1, 13	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. (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 (dB<sub>u</sub>V/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 09, 2008
HP Preamplifier	8449B	3008A01201	Oct. 10, 2007
HP Preamplifier	8449B	3008A01292	Aug. 05, 2008
ROHDE & SCHWARZ TEST RECEIVER	ESI7	836697/012	Oct. 24, 2007
Schwarzbeck Antenna	VULB 9168	137	Oct. 01, 2007
Schwarzbeck Antenna	VHBA 9123	480	Apr. 18, 2008
EMCO Horn Antenna	3115	6714	Oct. 24, 2007
EMCO Horn Antenna	3115	9312-4192	Apr. 19, 2008
ADT. Turn Table	TT100	0306	NA
ADT. Tower	AT100	0306	NA
Software	ADT_Radiated_V7.6.15	NA	NA
SUHNER RF cable	SF104-26.5	CABLE-CH6-17m-01	Dec. 11, 2007
ROHDE & SCHWARZ Spectrum Analyzer	FSP 40	100036	Mar. 13, 2008

**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.

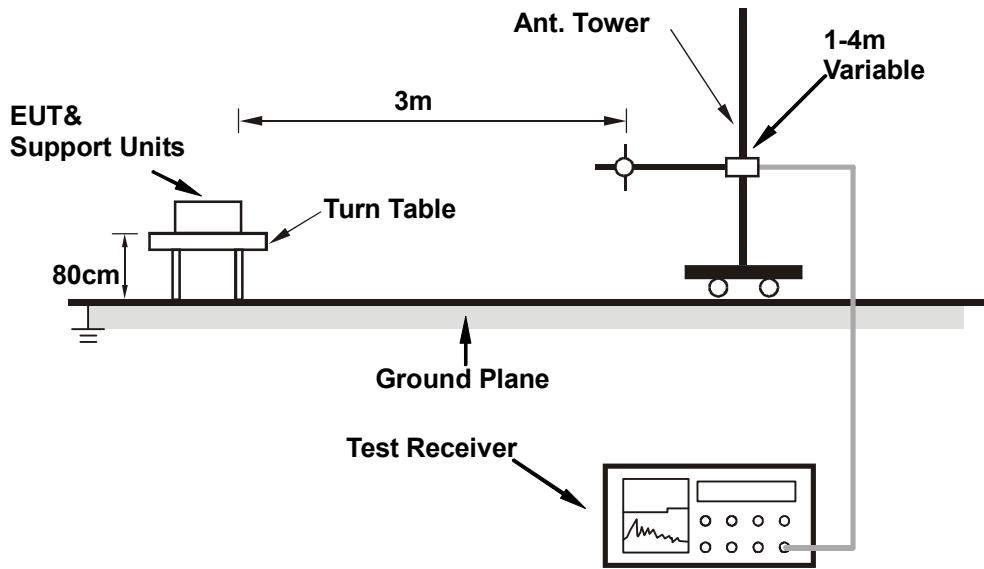
#### NOTE:

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

MODULATION TYPE	GFSK	CHANNEL	13
INPUT POWER	1.5Vdc	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH, 997Pa	DETECTOR FUNCTION	Quasi-Peak
TESTED BY	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	793.948	18.61 QP	46.00	-27.39	1.26 H	22	-9.54	28.15
2	819.218	18.04 QP	46.00	-27.96	1.22 H	247	-10.36	28.40
3	858.096	19.02 QP	46.00	-26.98	1.15 H	241	-9.88	28.90
4	895.030	19.02 QP	46.00	-26.98	1.11 H	52	-10.44	29.46
5	937.796	18.84 QP	46.00	-27.16	1.08 H	19	-11.12	29.96
6	945.571	20.13 QP	46.00	-25.87	1.05 H	208	-9.91	30.04

### 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	35.832	14.14 QP	40.00	-25.86	1.00 V	271	0.54	13.60
2	70.822	13.96 QP	40.00	-26.04	1.00 V	244	1.24	12.72
3	854.208	18.38 QP	46.00	-27.62	1.15 V	40	-10.46	28.84
4	877.535	19.50 QP	46.00	-26.50	1.19 V	70	-9.70	29.20
5	924.188	19.44 QP	46.00	-26.56	1.26 V	265	-10.37	29.81
6	951.403	20.06 QP	46.00	-25.94	1.35 V	100	-10.04	30.10

**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)
- 3The 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>	1.5Vdc	<b>FREQUENCY RANGE</b>	1 ~ 25GHz
<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 66%RH, 997Pa	<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	2390.000	60.96 PK	74.00	-13.04	1.28 H	129	26.54	34.42
2	2390.000	27.52 AV	54.00	-26.48	1.28 H	129	-6.90	34.42
3	*2402.000	94.66 PK	114.00	-19.34	1.28 H	129	60.22	34.44
4	*2402.000	61.22 AV	94.00	-32.78	1.28 H	129	26.78	34.44
5	4804.000	55.54 PK	74.00	-18.46	1.00 H	161	14.15	41.39
6	4804.000	22.10 AV	54.00	-31.90	1.00 H	161	-19.29	41.39

**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	2390.000	60.55 PK	74.00	-13.45	1.57 V	334	26.13	34.42
2	2390.000	27.11 AV	54.00	-26.89	1.57 V	334	-7.31	34.42
3	*2402.000	86.79 PK	114.00	-27.21	1.57 V	334	52.35	34.44
4	*2402.000	53.35 AV	94.00	-40.65	1.57 V	334	18.91	34.44
5	4804.000	55.39 PK	74.00	-18.61	1.07 V	188	14.00	41.39
6	4804.000	21.95 AV	54.00	-32.05	1.07 V	188	-19.44	41.39

**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
6. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:

$$20\log(\text{Duty cycle}) = 20\log \frac{0.346\text{ms}}{16.275\text{ ms}} = -33.44\text{dB}$$

Please see page 17 for plotted duty.



<b>MODULATION TYPE</b>	GFSK	<b>CHANNEL</b>	7
<b>INPUT POWER</b>	1.5Vdc	<b>FREQUENCY RANGE</b>	1 ~ 25GHz
<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 66%RH, 997Pa	<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	*2438.000	96.42 PK	114.00	-17.58	1.20 H	121	61.90	34.52
2	*2438.000	62.98 AV	94.00	-31.02	1.20 H	121	28.46	34.52
3	4876.000	56.58 PK	74.00	-17.42	1.09 H	164	15.00	41.58
4	4876.000	23.14 AV	54.00	-30.86	1.09 H	164	-18.44	41.58

#### 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	*2438.000	86.20 PK	114.00	-27.80	1.51 V	334	51.68	34.52
2	*2438.000	52.76 AV	94.00	-41.24	1.51 V	334	18.24	34.52
3	4876.000	54.61 PK	74.00	-19.39	1.19 V	198	13.03	41.58
4	4876.000	21.17 AV	54.00	-32.83	1.19 V	198	-20.41	41.58

**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
6. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:

$$20\log(\text{Duty cycle}) = 20\log \frac{0.346\text{ms}}{16.275\text{ ms}} = -33.44\text{dB}$$

Please see page 17 for plotted duty.



MODULATION TYPE	GFSK	CHANNEL	13
INPUT POWER	1.5Vdc	FREQUENCY RANGE	1 ~ 25GHz
ENVIRONMENTAL CONDITIONS	25deg. C, 66%RH, 997Pa	DETECTOR FUNCTION	Peak(PK) Average (AV)
TESTED BY	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	*2474.000	96.96 PK	114.00	-17.04	1.20 H	130	62.37	34.59
2	*2474.000	63.52 AV	94.00	-30.48	1.20 H	130	28.93	34.59
3	<b>2483.500</b>	<b>61.03 PK</b>	<b>74.00</b>	<b>-12.97</b>	<b>1.20 H</b>	<b>130</b>	<b>26.42</b>	<b>34.61</b>
4	2483.500	27.59 AV	54.00	-26.41	1.20 H	130	-7.02	34.61
5	4948.000	54.57 PK	74.00	-19.43	1.06 H	164	12.80	41.77
6	4948.000	21.13 AV	54.00	-32.87	1.06 H	164	-20.64	41.77

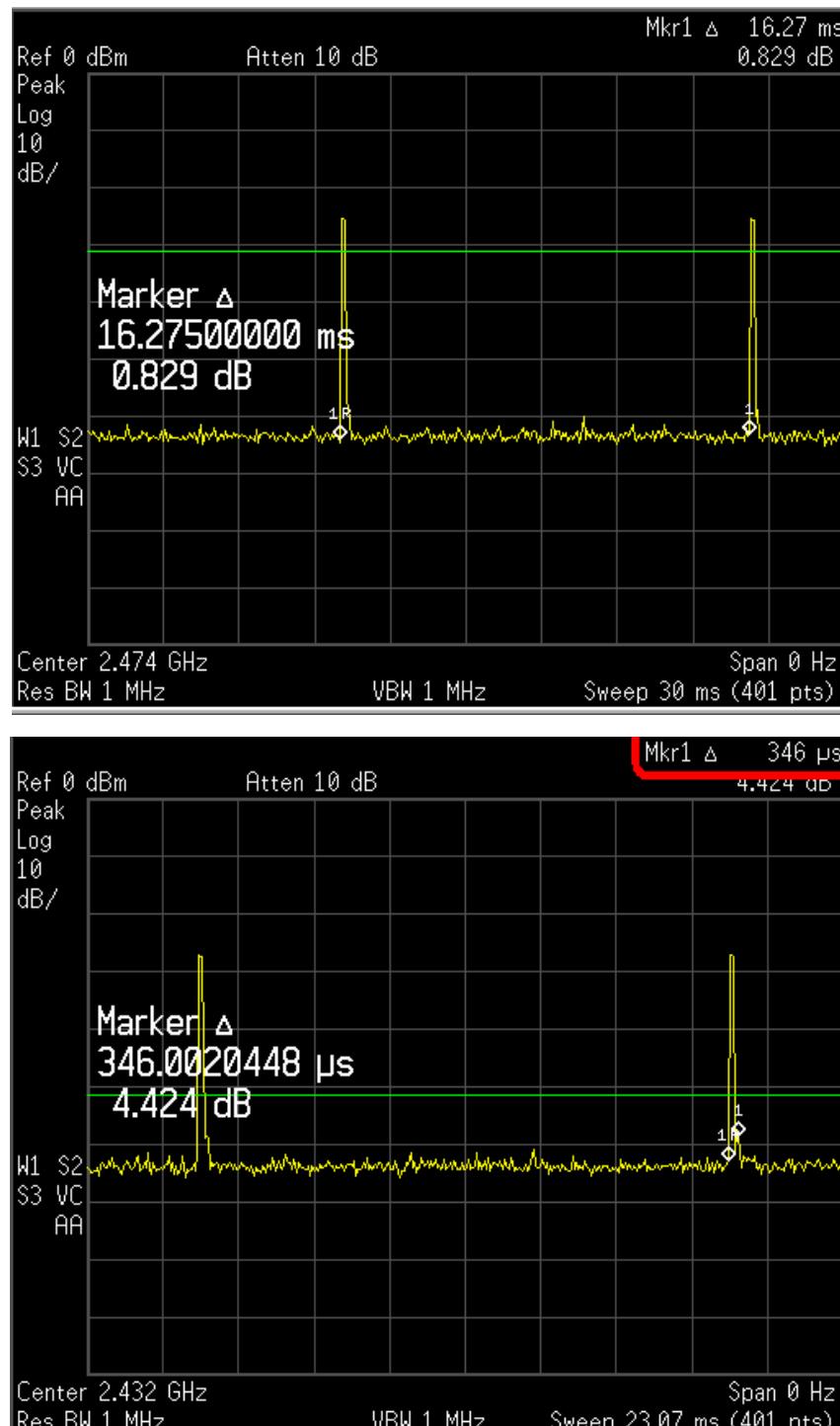
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2474.000	87.53 PK	114.00	-26.47	1.47 V	332	52.94	34.59
2	*2474.000	54.09 AV	94.00	-39.91	1.47 V	332	19.50	34.59
3	2483.500	60.40 PK	74.00	-13.60	1.47 V	332	25.79	34.61
4	2483.500	26.96 AV	54.00	-27.04	1.47 V	332	-7.65	34.61
5	4948.000	55.49 PK	74.00	-18.51	1.05 V	207	13.72	41.77
6	4948.000	22.05 AV	54.00	-31.95	1.05 V	207	-19.72	41.77

**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
6. The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) Where the duty factor is calculated from following formula:

$$20\log(\text{Duty cycle}) = 20\log \frac{0.346\text{ms}}{16.275\text{ ms}} = -33.44\text{dB}$$

Please see page 17 for plotted duty.



$$20\log(\text{Duty cycle}) = 20\log \frac{0.346\text{ms}}{16.275 \text{ ms}} = -33.44\text{dB}$$



## 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. 13, 2008

**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

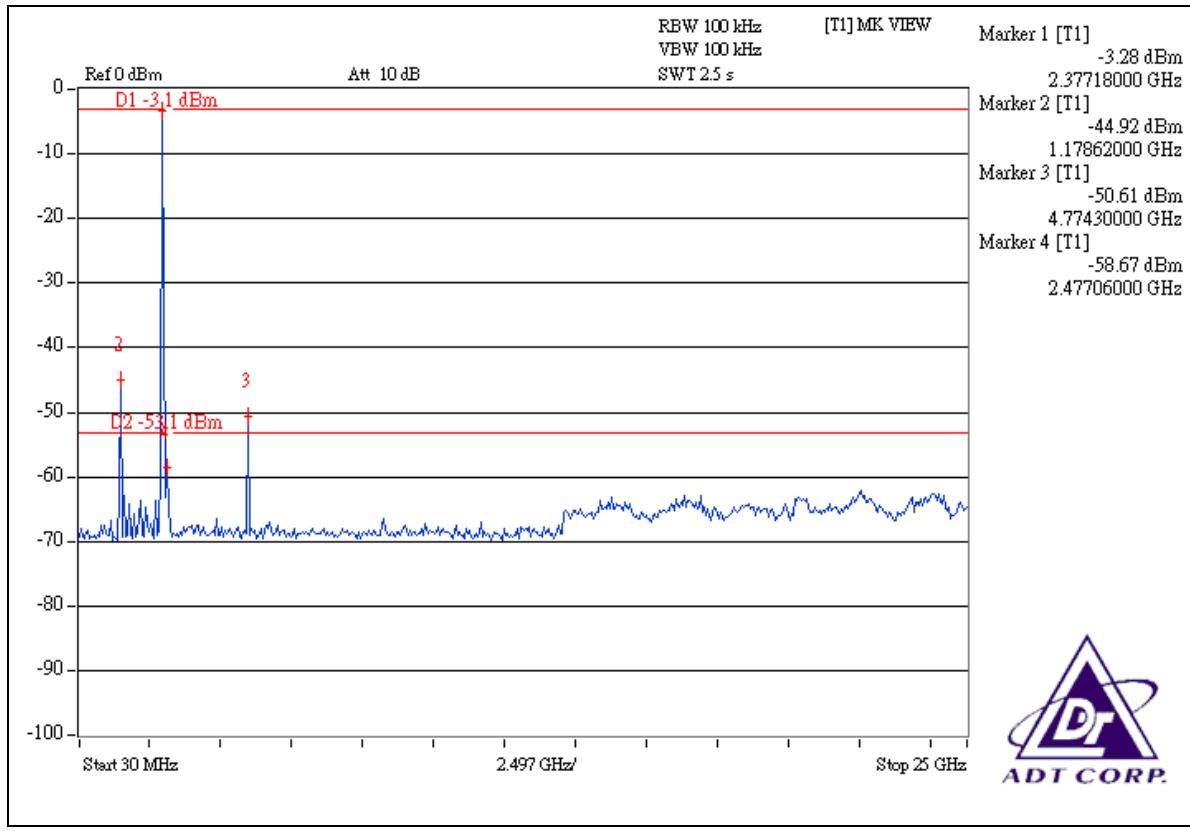
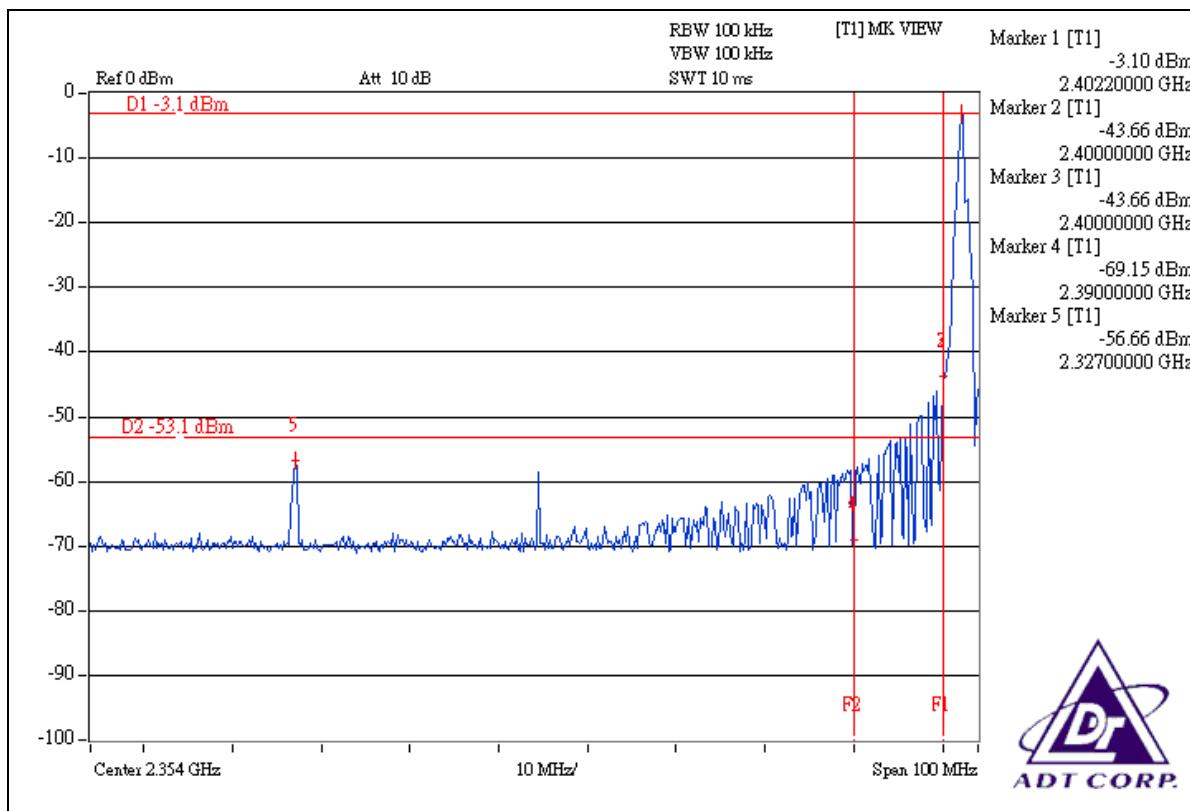
No deviation

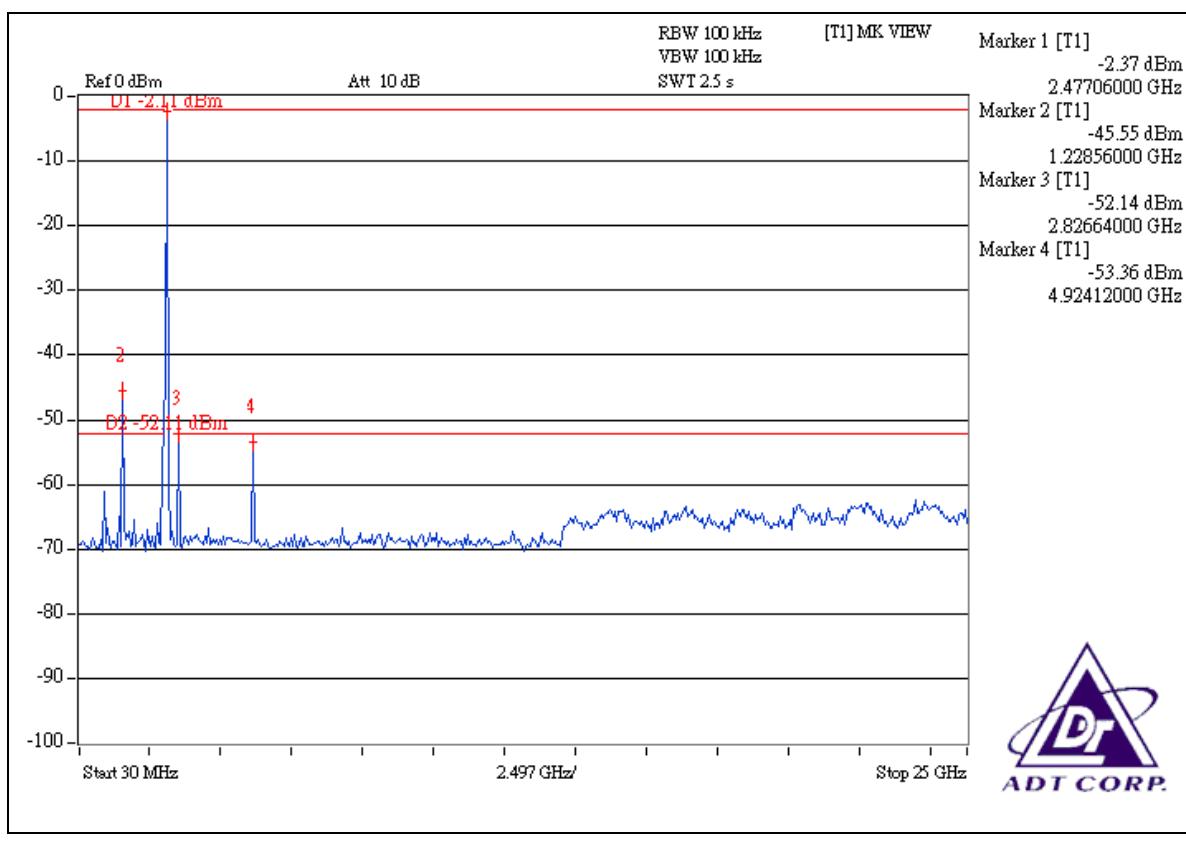
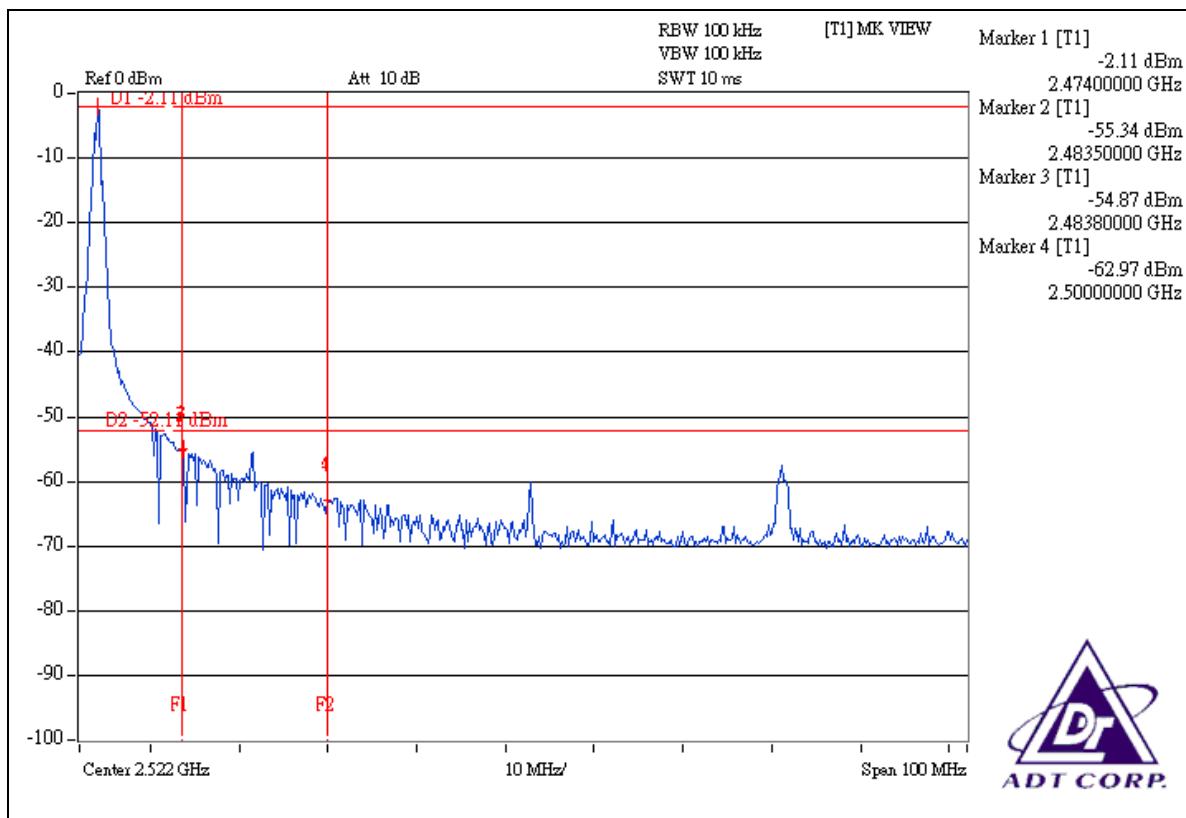
### 4.3.5 EUT OPERATING CONDITION

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

Please refer to the attached file (Test Setup Photo).



## 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>	TAF, BSMI, NCC
<b>Netherlands</b>	Telefication
<b>Singapore</b>	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



## 7. 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.