

# FCC TEST REPORT

**REPORT NO.:** RF960730A04-1

**MODEL NO.:** 1132

**RECEIVED:** July 30, 2007

**TESTED:** Aug. 3 ~ 7, 2007

**ISSUED:** Aug. 10, 2007

**APPLICANT:** MICROSOFT CORPORATION

**ADDRESS:** ONE MICROSOFT WAY REDMOND,  
WA 98052-6399, U.S.A

**ISSUED BY:** Advance Data Technology Corporation

**LAB ADDRESS:** No. 47, 14th Ling, Chia Pau Tsuen, Lin Kou Hsiang  
244, Taipei Hsien, Taiwan, R.O.C.

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## 1 CERTIFICATION

**PRODUCT:** Microsoft® Wireless Keyboard 700 v2.0  
**BRAND NAME:** Microsoft®  
**MODEL NO.:** 1132  
**APPLICANT:** MICROSOFT CORPORATION  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**TESTED:** Aug. 3 ~ 7, 2007  
**STANDARDS:** FCC Part 15, Subpart C (Section 15.227),  
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:** Aug. 10, 2007  
( Annie Chang / Senior Specialist )

**TECHNICAL**  
**ACCEPTANCE :** Jamison Chan , **DATE:** Aug. 10, 2007  
Responsible for RF ( Jamison Chan / Senior Engineer )

**APPROVED BY :** Ken Liu , **DATE:** Aug. 10, 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			
STANDARD PARAGRAPH	TEST TYPE	RESULT	REMARK
15.207	Conducted Emission Test	N/A	Power supply is 3Vdc from batteries
15.227 15.209	Radiated Emission Test	PASS	Minimum passing margin is -6.62dB at 80.541MHz

### 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>PRODUCT</b>	Microsoft® Wireless Keyboard 700 v2.0
<b>MODEL NO.</b>	1132
<b>FCC ID</b>	C3K1132
<b>POWER SUPPLY</b>	3.0Vdc from batteries
<b>MODULATION TYPE</b>	FSK
<b>CARRIER FREQUENCY OF EACH CHANNEL</b>	27.195 MHz
<b>NUMBER OF CHANNEL</b>	1
<b>ANTENNA TYPE</b>	Loop antenna
<b>DATA CABLE</b>	NA
<b>I/O PORTS</b>	NA
<b>ASSOCIATED DEVICES</b>	NA

**NOTE:**

1. The EUT is a wireless keyboard which is a transmitter
2. The EUT has 3 samples, which are defined as their serial no. as follows:

<b>Model No.</b>	<b>Serial no.</b>
1132	7
	8
	9

3. 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.

### 3.1 DESCRIPTION OF TEST MODES

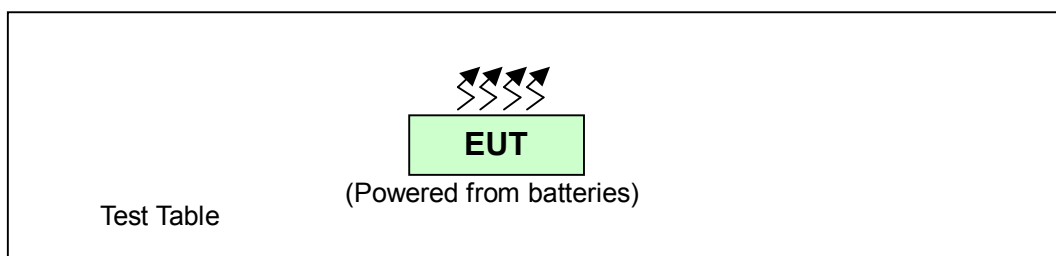
One channel was provided to this EUT

Channel	Frequency (MHz)
1	27.195MHz

Three sets of identical samples are tested and presented in the report.

Keyboard Serial Number
7
8
9

### 3.2 CONFIGURATION OF SYSTEM UNDER TEST



### 3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT configure mode	Applicable to		Description
	PLC	RE<1G	
1	Note	√	serial number: 7
2	Note	√	serial number: 8
3	Note	√	serial number: 9

Where PLC: Power Line Conducted Emission RE<1G RE: Radiated Emission below 1GHz

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

#### **RADIATED EMISSION TEST (BELOW 1 GHz):**

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

EUT CONFIGURE MODE	OPERATING STATE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE
1	Operating	1	1	FSK
2	Operating	1	1	FSK
3	Operating	1	1	FSK

### **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. (15.227)**  
**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 PROCEDURE AND RESULT

### 4.1 CONDUCTED EMISSION MEASUREMENT

NA

### 4.2 RADIATED EMISSION MEASUREMENT

#### 4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

According to 15.227 the field strength of Emissions from intentional radiators operated under these frequencies bands shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (dBuV/m)	
	Peak	Average
26.96-27.28	100	80

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:

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.

## 4.2.2 TEST INSTRUMENT

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	May 09, 2008
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	Oct. 01, 2007
Schwarzbeck Antenna	VHBA 9123	480	Apr. 18, 2008
ADT. Turn Table	TT100	0306	NA
ADT. Tower	AT100	0306	NA
Software	ADT_Radiated_V 7.6.15	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
Loop Antenna R & S	HFH2-Z2	100070	Nov. 28, 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.

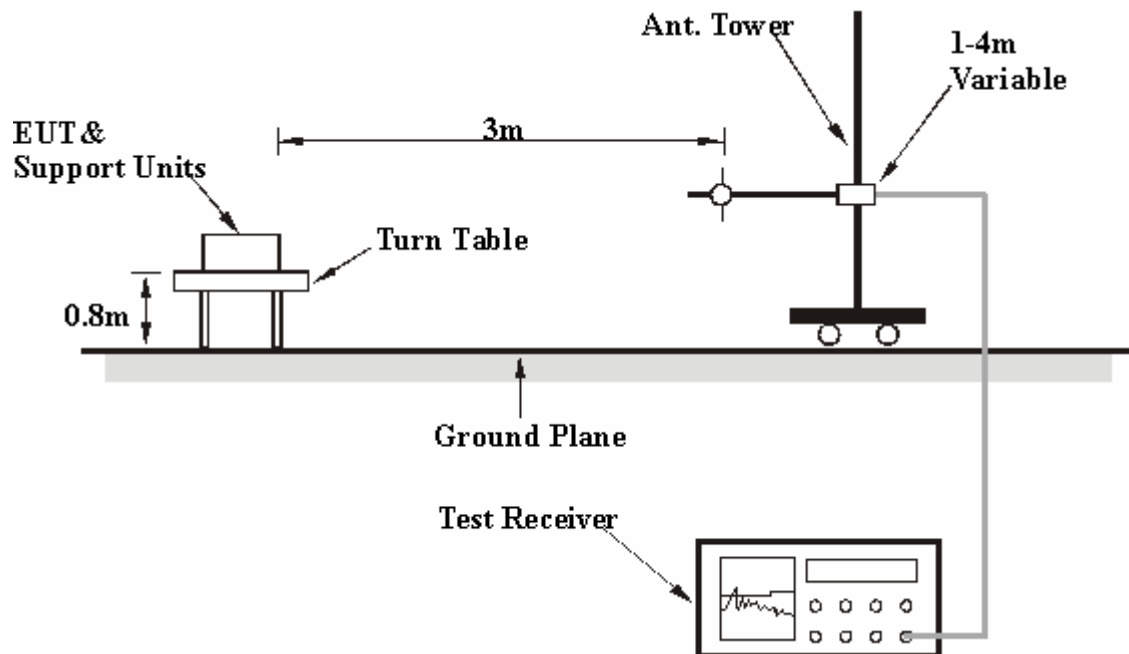
### 4.2.3 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter 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 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. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the interference-receiving antenna.

#### 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>TEST MODE</b>	1	<b>SERIAL NO.</b>	7
<b>MODULATION TYPE</b>	FSK	<b>CHANNEL</b>	1
<b>INPUT POWER</b>	3Vdc	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 59% RH, 996hPa	<b>DETECTOR FUNCTION</b>	Peak / Average
<b>TESTED BY</b>	Jamison Chan	<b>OPERATING STATE</b>	Operating

TEST DISTANCE: 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	*27.195	51.59 PK	100.00	-48.41	1.83	359	31.37	20.22
2	*27.195	36.77 AV	80.00	-43.23	1.83	359	16.55	20.22

### 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 Loop antenna was used for all radiated emission below 30MHz.

<b>TEST MODE</b>	1	<b>SERIAL NO.</b>	7
<b>MODULATION TYPE</b>	FSK	<b>CHANNEL</b>	1
<b>INPUT POWER</b>	3Vdc	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 59% RH, 996hPa	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>TESTED BY</b>	Jamison Chan	<b>OPERATING STATE</b>	Operating

#### 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	53.327	28.54 QP	40.00	-11.46	3.33 H	301	14.07	14.47
2	<b>80.541</b>	<b>33.38 QP</b>	<b>40.00</b>	<b>-6.62</b>	<b>2.87 H</b>	<b>220</b>	<b>22.21</b>	<b>11.17</b>
3	134.970	27.20 QP	43.50	-16.30	2.78 H	37	13.83	13.37
4	681.202	27.43 QP	46.00	-18.57	3.13 H	127	1.96	25.47
5	735.631	27.78 QP	46.00	-18.22	2.55 H	154	0.42	27.36
6	778.397	26.69 QP	46.00	-19.31	1.97 H	301	-1.41	28.10

#### 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	80.541	29.79 QP	40.00	-10.21	1.00 V	10	18.62	11.17
2	117.475	24.19 QP	43.50	-19.31	1.31 V	334	13.06	11.13
3	776.453	26.57 QP	46.00	-19.43	1.00 V	292	-1.52	28.09
4	797.836	26.75 QP	46.00	-19.25	1.07 V	304	-1.41	28.16
5	819.218	27.54 QP	46.00	-18.46	1.00 V	196	-0.86	28.40
6	865.872	27.79 QP	46.00	-18.21	1.11 V	268	-1.23	29.02

- 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.

<b>TEST MODE</b>	2	<b>SERIAL NO.</b>	8
<b>MODULATION TYPE</b>	FSK	<b>CHANNEL</b>	1
<b>INPUT POWER</b>	3Vdc	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 59% RH, 996hPa	<b>DETECTOR FUNCTION</b>	Peak / Average
<b>TESTED BY</b>	Jamison Chan	<b>OPERATING STATE</b>	Operating

<b>TEST DISTANCE: 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	*27.195	50.85 PK	100.00	-49.15	1.94	22	30.63	20.22
2	*27.195	36.97 AV	80.00	-43.03	1.94	22	16.75	20.22

**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 Loop antenna was used for all radiated emission below 30MHz.

<b>TEST MODE</b>	2	<b>SERIAL NO.</b>	8
<b>MODULATION TYPE</b>	FSK	<b>CHANNEL</b>	1
<b>INPUT POWER</b>	3Vdc	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 59% RH, 996hPa	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>TESTED BY</b>	Jamison Chan	<b>OPERATING STATE</b>	Operating

#### 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	53.327	29.20 QP	40.00	-10.80	2.79 H	292	14.73	14.47
2	80.541	33.27 QP	40.00	-6.73	2.83 H	268	22.10	11.17
3	134.970	27.87 QP	43.50	-15.63	2.17 H	10	14.50	13.37
4	681.202	26.75 QP	46.00	-19.25	3.11 H	133	1.28	25.47
5	735.631	27.15 QP	46.00	-18.85	1.82 H	148	-0.21	27.36
6	762.846	27.24 QP	46.00	-18.76	2.00 H	34	-0.81	28.05

#### 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	80.541	30.20 QP	40.00	-9.80	1.00 V	208	19.03	11.17
2	107.756	25.31 QP	43.50	-18.19	1.05 V	250	14.94	10.37
3	747.295	26.31 QP	46.00	-19.69	1.00 V	340	-1.58	27.89
4	782.285	26.86 QP	46.00	-19.14	1.00 V	196	-1.25	28.11
5	811.443	28.01 QP	46.00	-17.99	1.00 V	97	-0.30	28.31
6	844.489	27.10 QP	46.00	-18.90	1.00 V	289	-1.61	28.71

- 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.

<b>TEST MODE</b>	3	<b>SERIAL NO.</b>	9
<b>MODULATION TYPE</b>	FSK	<b>CHANNEL</b>	1
<b>INPUT POWER</b>	3Vdc	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 59% RH, 996hPa	<b>DETECTOR FUNCTION</b>	Peak / Average
<b>TESTED BY</b>	Jamison Chan	<b>OPERATING STATE</b>	Operating

<b>TEST DISTANCE: 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	*27.195	51.23 PK	100.00	-48.77	1.86	0	31.01	20.22
2	*27.195	36.82 AV	80.00	-43.18	1.86	0	16.60	20.22

**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 Loop antenna was used for all radiated emission below 30MHz.

<b>TEST MODE</b>	3	<b>SERIAL NO.</b>	9
<b>MODULATION TYPE</b>	FSK	<b>CHANNEL</b>	1
<b>INPUT POWER</b>	3Vdc	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	25deg. C, 59% RH, 996hPa	<b>DETECTOR FUNCTION</b>	Quasi-Peak
<b>TESTED BY</b>	Jamison Chan	<b>OPERATING STATE</b>	Operating

#### 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	53.327	29.89 QP	40.00	-10.11	2.34 H	310	15.42	14.47
2	80.541	33.33 QP	40.00	-6.67	2.53 H	289	22.16	11.17
3	134.970	27.20 QP	43.50	-16.30	2.19 H	10	13.83	13.37
4	681.202	26.12 QP	46.00	-19.88	3.00 H	145	0.65	25.47
5	708.417	26.16 QP	46.00	-19.84	2.33 H	154	0.02	26.14
6	735.631	27.90 QP	46.00	-18.10	2.61 H	151	0.54	27.36

#### 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	80.541	31.26 QP	40.00	-8.74	1.00 V	142	20.09	11.17
2	117.475	24.26 QP	43.50	-19.24	1.11 V	322	13.13	11.13
3	780.341	26.76 QP	46.00	-19.24	1.00 V	349	-1.35	28.11
4	813.387	27.18 QP	46.00	-18.82	1.21 V	97	-1.15	28.33
5	836.713	26.97 QP	46.00	-19.03	1.00 V	199	-1.65	28.62
6	875.591	28.40 QP	46.00	-17.60	1.00 V	121	-0.77	29.17

- 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 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, DGT
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<b>Russia</b>	CERTIS(MOU)

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

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**Hsin Chu EMC/RF Lab:**  
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**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.