



# FCC TEST REPORT

**REPORT NO.:** 050612FIA01

**MODEL NO.:** DR200501-D

**RECEIVED:** Jul 12, 2005

**TESTED:** Jul 12 to Aug 10, 2005

**ISSUED:** Aug 21, 2005

**APPLICANT:** Xiamen Derui Indusrty&Trade Development Co., Ltd.

**ADDRESS:** 1/F, The second industrial park of Hou Pu, HuLi,  
Xiamen, FuJian, P.R. China

**ISSUED BY:** ADT (Shanghai) Corporation

**ADDRESS:** 2F, Building C, No.1618, Yishan rd., 201103,  
Shanghai, China

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ADT (Shanghai) Corporation.





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## 1 CERTIFICATION

**PRODUCT:** Remote control Light

**BRAND NAME:** DR

**MODEL NO.:** DR200501-D

**APPLICANT:** Xiamen Derui Indusrt & Trade Development Co., Ltd.

**TESTED:** Jul 12 to Aug 10, 2005

**TEST ITEM:** ENGINEERING SAMPLE

**STANDARDS:** FCC Part 15:2005,  
Subpart C (Section 15.209 and 15.231),  
ANSI C63.4-2003

The above equipment has been tested by **ADT (Shanghai) 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.

**TECHNICAL**

**ACCEPTANCE :**

Responsible for EMI

A handwritten signature in black ink, appearing to read 'Wailand Zhang'.

, **DATE:** AUG 21, 2005

(Wailand Zhang)

**APPROVED BY :**

A handwritten signature in black ink, appearing to read 'Wallace Pan'.

, **DATE:** AUG 21, 2005

(Wallace Pan, 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	Remarks
15.207	Conducted Emission Test	N/A	
15.231(a)	De-activation	PASS	Meet the requirement of limit
15.209 15.231(b)	Radiated Emission Test	PASS	Minimum passing margin is -4.35dB at 1260MHz
15.231(c)	20dB Occupied Bandwidth Measurement	PASS	Meet the requirement of limit

**Note:** This report contains data that were produced under subcontract by Laboratory ADT (Shanghai) Corporation.

### 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:

Measurement	Value
Conducted emissions	1.8dB
Radiated emissions	3.5dB



### 3 GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

<b>PRODUCT</b>	Remote control Light
<b>MODEL NO.</b>	DR
<b>POWER SUPPLY</b>	12 Vdc from battery
<b>MODULATION TYPE</b>	FM
<b>CARRIER FREQUENCY OF EACH CHANNEL</b>	315MHz
<b>NUMBER OF CHANNEL</b>	1
<b>ANTENNA TYPE</b>	Printed antenna
<b>DATA CABLE SUPPLIED</b>	NA
<b>I/O PORTS</b>	NA

**NOTE:** 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

One channel is provided to this EUT:

Channel	Frequency
1	315.01 MHz



## Test Mode Applicability AND TESTED CHANNEL DETAIL:

EUT configure mode	Applicable to				Description
	PLC	RE<1G	RE≥1G	APM	
-	-	X	X	-	NA

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

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

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, and X.Y.Z. axis.
- Following channel(s) was (were) selected for the final test as listed below.

Available Channel	Tested Channel	Modulation Type	Axis
1	1	FM	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, and X.Y.Z. axis.
- Following channel(s) was (were) selected for the final test as listed below.

Available Channel	Tested Channel	Modulation Type	Axis
1	1	FM	X

### Antenna Port Conducted Measurement:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, and X.Y.Z. axis.
- Following channel(s) was (were) selected for the final test as listed below.

Available Channel	Tested Channel	Modulation Type	Axis
1	1	FM	X



### 3.3 DESCRIPTION OF SUPPORT UNITS

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

**FCC Part 15, Subpart C. (15.231)**

**ANSI C63.4- 2003**

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

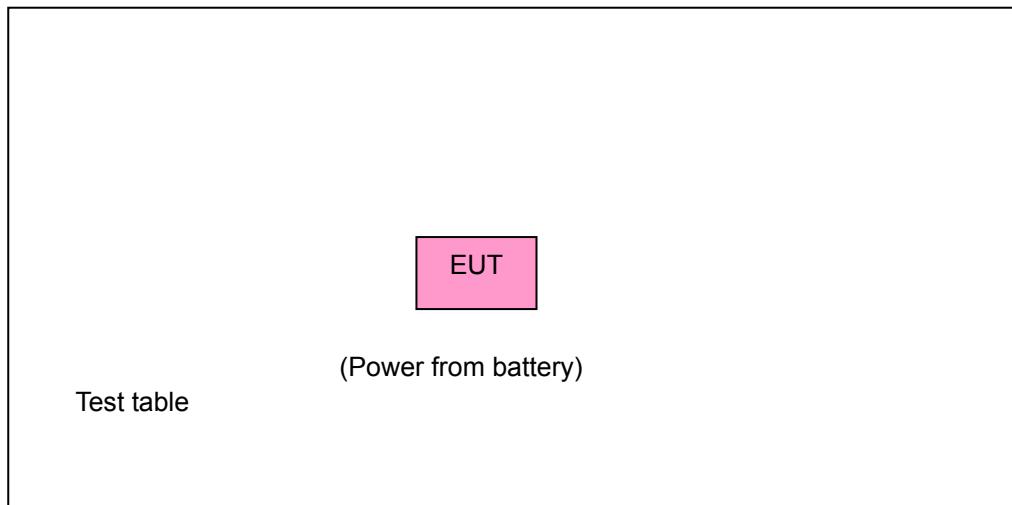
### 3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NA	NA	NA	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA

**NOTE:** All power cords of the above support units are non shielded (1.8m).





## 4 EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

**NOTES:** 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

#### 4.1.2 TEST RESULTS

Since the EUT does not AC power port, the test item is not applicable.



## 4.2 DEACTIVATION TIME

### 4.2.1 LIMITS OF DEACTIVATION TIME MEASUREMENT

#### TEST STANDARD:

FCC Part 15: 2005, Subpart C (Section: 15.231(a))

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

### 4.2.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER Agilent	E4403B	MY41440678	Jan. 13, 2006

**NOTE:** The calibration interval of the above test instruments is 12 months.

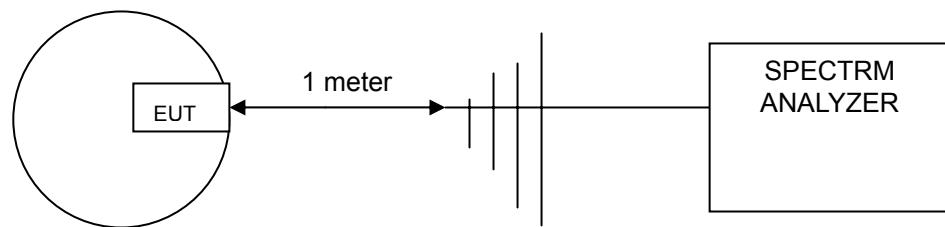
### 4.2.3 TEST PROCEDURES

- 1 The EUT was placed on the turning table.
- 2 The signal was coupled to the spectrum analyzer through an antenna.
- 3 Set the resolution bandwidth to 1 kHz and video bandwidth to 1MHz. The spectrum analyzer was turned to the centre frequency of the transmitter's and the analyzer's marker function was used to determine the duration of transmission.
- 4 The transmission duration was measured and recorded.

### 4.2.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.2.5 TEST SETUP

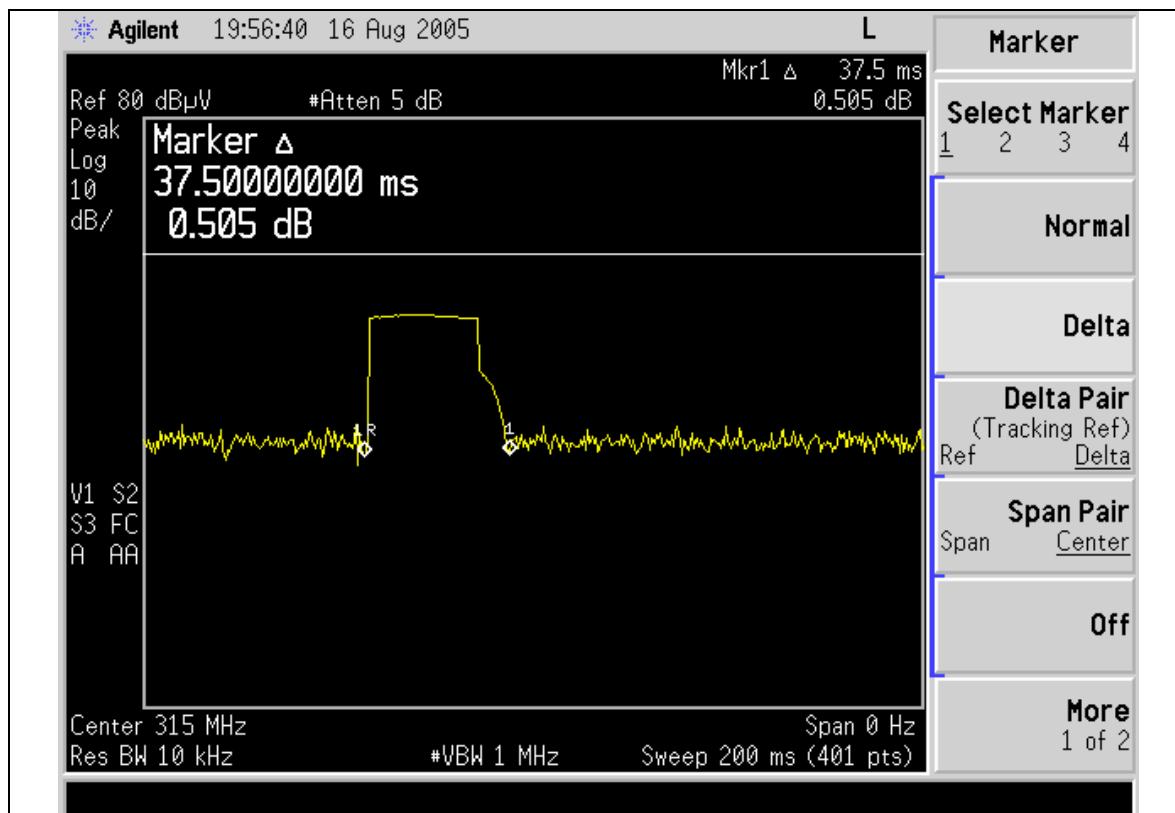


#### 4.2.6 TEST RESULTS

Push button	Frequency (MHz)	Transmission duration (sec)	Maximum limit (sec)	PASS/FAIL
1	315.01	0.0375	5	PASS

The plot of test result is attached as below.

Manual Push – Button 1





## 4.3 RADIATED EMISSION MEASUREMENT

### 4.3.1 LIMITS OF RADIATED EMISSION MEASUREMENT

#### TEST STANDARD:

FCC Part 15: 2005, Subpart C (Section: 15.205)

FCC Part 15: 2005, Subpart C (Section: 15.209)

FCC Part 15: 2005, Subpart C (Section: 15.231(b))

According to 15.231 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		Field Strength of Spurious	
	uV/meter	dBuV/meter	uV/meter	dBuV/meter
40.66 – 40.70	2250	67.04	225	48.04
70 – 130	1250	61.94	125	41.94
130 – 174	1250 to 3750	61.94 to 71.48	125 to 375	41.94 to 51.48
174 – 260	3750	71.48	75	37.50
260 – 470	3750 to 12500	71.48 to 81.94	375 to 1250	51.48 to 61.94
Above 470	12500	81.94	1250	61.94

#### NOTE:

- (1) Where F is the frequency in MHz, the formula for calculating the maximum permitted fundamental field strengths are as follows: for the band 130-174 MHz, uV/m at 3 meters =  $56.81818(F)-6136.3636$ ; for the band 260-470 MHz, uV/m at 3 meters =  $41.6667(F)-7083.3333$ . The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.
- (2) The above field strength limits are specified at a distance of 3meters. The tighter limits apply at the band edges.

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:



<b>Frequencies (MHz)</b>	<b>Field strength (microvolts/meter)</b>	<b>Measurement distance (meters)</b>
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.

## **FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)**

<b>Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)</b>	<b>Range (MHz)</b>
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or 40 GHz, whichever is lower



### 4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
Test Receiver ROHDE & SCHWARZ	ESCS30	100296	Apr. 19, 2006
BILOG Antenna SCHWARZBECK	VULB9168	9168-159	Sep. 26, 2006
Preamplifier Agilent	8447D	2944A10643	Jan. 27, 2006
Preamplifier Agilent	8449B	3008A01966	Jan. 27, 2006
Double Ridged Broadband Horn Antenna Schwarzbeck	BBHA 9120D	9120D-398	Feb.15, 2006
*Spectrum Analyzer Agilent	E4403B	MY41440678	Jan. 13, 2006
Spectrum Analyzer ROHDE & SCHWARZ	FSP30	100019	May.15,2006
RF signal cable Woken	RG-402	E1CBH01	May. 30, 2006
RF signal cable Woken	RG-402	E1CBH02	May. 30, 2006
RF signal cable Woken	RG-402	E1CBH03	May. 30, 2006
RF signal cable Woken	RG-412	E1CBL02	May. 30, 2006
RF signal cable Woken	RG-412	E1CBL03	May. 30, 2006
RF signal cable Woken	RG-412	E1CBL04	May. 30, 2006
Software ADT	ADT_Radiated_V7. 5	NA	NA

**NOTE:**

1. The calibration interval of the above test instruments is 12 months.
2. “\*” = These equipments are used for the final measurement.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The Spectrum Analyzer (model: FSP30) and RF signal cable (SERIAL: E1CBH02&E1CBH03) are used only for the measurement of emission frequency above 2GHz if tested.



### 4.3.3 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 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.

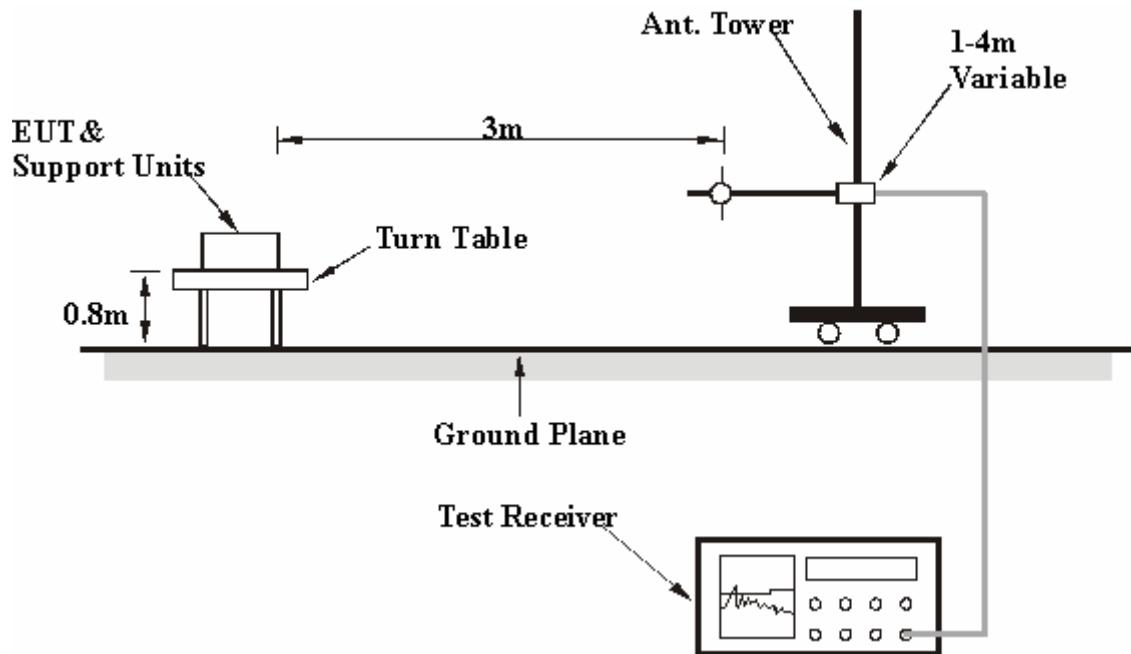
**NOTE:**

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.

### 4.3.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.3.5 TEST SETUP



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

#### 4.3.6 EUT OPERATING CONDITIONS

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



#### 4.3.7 TEST RESULTS

##### Below 1GHz Worst-Case Data

<b>EUT</b>	Remote control Light	<b>MODEL NO.</b>	DR200501-D
<b>CHANNEL</b>	Channel 1	<b>FREQUENCY RANGE</b>	30 ~ 1000 MHz
<b>MODULATION TYPE</b>	FM	<b>INPUT POWER (SYSTEM)</b>	12 Vdc from battery
<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 65% RH, 1000 hPa	<b>DETECTOR FUNCTION</b>	Quasi-Peak / Peak/Average
<b>TESTED BY</b>	Steven Qian		

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

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	156.10	17.03	-6.50	10.53QP	43.50	-32.97	100	269
*2	315.01	16.93	54.15	71.07PK	95.69	-24.62	120	245
*2	315.01	16.93	48.96	32.03AV	75.69	-43.66	125	230
3	388.20	18.42	-4.18	14.24QP	46.00	-31.76	100	320
4	624.12	23.58	4.49	28.07QP	46.00	-17.93	116	117
5	630.02	23.67	39.79	63.46PK	75.69	-12.23	120	187
5	630.02	23.67	19.06	42.73AV	55.69	-12.94	113	200
6	945.03	27.80	19.27	47.07PK	75.69	-28.62	128	240
6	945.03	27.80	6.13	33.93AV	55.69	-21.74	135	233

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

2. Correction Factor (dB) = Antenna Factor (dB) + 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>EUT</b>	Remote control Light	<b>MODEL NO.</b>	DR200501-D
<b>CHANNEL</b>	Channel 1	<b>FREQUENCY RANGE</b>	30 ~ 1000 MHz
<b>MODULATION TYPE</b>	FM	<b>INPUT POWER (SYSTEM)</b>	12 Vdc from battery
<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 65% RH, 1000 hPa	<b>DETECTOR FUNCTION</b>	Quasi-Peak / Peak/Average
<b>TESTED BY</b>	Steven Qian		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	117.00	14.41	-6.21	8.20QP	43.50	-35.30	100	48
*2	315.01	16.93	42.02	58.95PK	95.69	-36.74	108	40
*2	315.01	16.93	21.83	38.76AV	75.69	-36.93	105	32
3	624.12	23.58	9.31	32.89QP	46.00	-13.11	102	113
4	630.02	23.67	37.18	60.86PK	75.69	-14.83	112	135
4	630.02	23.67	16.79	40.46AV	55.69	-15.27	104	122
5	875.52	26.56	-7.89	18.68QP	46.00	-27.32	116	67
6	945.03	27.80	22.17	49.97PK	75.69	-25.72	143	235
6	945.03	27.80	2.50	30.30AV	55.69	-25.39	130	223

**NOTE:**

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB)
2. Correction Factor (dB) = Antenna Factor (dB) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. “\*” = Fundamental frequency



### About 1GHz Worst-Case Data

<b>EUT</b>	Remote control Light	<b>MODEL NO.</b>	DR200501-D
<b>CHANNEL</b>	Channel 1	<b>FREQUENCY RANGE</b>	1GHz~2GHz
<b>MODULATION TYPE</b>	FM	<b>INPUT POWER (SYSTEM)</b>	12 Vdc from battery
<b>ENVIRONMENTAL CONDITIONS</b>	20 deg. C, 65% RH, 1000 hPa	<b>DETECTOR FUNCTION</b>	Quasi-Peak / Peak/Average
<b>TESTED BY</b>	Steven Qian		

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

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	1260.00	30.43	34.00	64.44PK	75.69	-11.25	156	339
1	1260.00	30.43	20.17	50.60AV	55.69	-5.09	148	346
2	1575.00	34.10	26.47	60.57PK	74.00	-13.43	178	233
2	1575.00	34.10	13.31	47.41AV	54.00	-6.59	189	246
3	1857.50	37.48	34.00	64.44PK	74.00	-9.56	103	65
4	1890.00	38.08	22.37	60.45PK	75.69	-15.24	146	138
4	1890.00	38.08	12.81	50.89AV	55.69	-4.80	133	148
5	1917.50	38.48	21.17	59.65PK	74.00	-14.35	115	32
6	1952.50	38.92	21.07	59.99PK	74.00	-14.01	123	98

### ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Factor (dB/M)	Reading (dBuV/M)	Emission (dBuV/M)	Limit (dBuV/M)	Margin (dB)	Ant. Height (cm)	Table Angle (Deg.)
1	1000.00	27.75	31.74	59.49PK	74.00	-14.51	112	30
2	1100.00	29.03	30.20	59.24PK	74.00	-14.76	130	153
3	1260.00	30.43	35.62	66.05PK	75.69	-9.64	109	52
<b>3</b>	<b>1260.00</b>	<b>30.43</b>	<b>20.91</b>	<b>51.34AV</b>	<b>55.69</b>	<b>-4.35</b>	<b>118</b>	<b>48</b>
4	1295.00	30.89	33.93	64.82PK	74.00	-9.18	135	342
5	1575.00	34.10	27.10	61.20PK	74.00	-12.80	103	213
5	1575.00	34.10	13.80	47.90AV	54.00	-6.10	122	189
6	1890.00	38.08	25.13	63.20PK	75.69	-12.49	119	125
6	1890.00	38.08	9.77	47.84AV	55.69	-7.85	102	113

**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.



## 4.4 20dB OCCUPIED BANDWIDTH MEASUREMENT

### 4.4.1 LIMITS OF BAND EDGES MEASUREMENT

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for device operating above 70 MHz and below 900 MHz.

Fundamental Frequency (MHz)	Limit of 20 dB Bandwidth(kHz)
315.01	787.5

### 4.4.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER Agilent	E4403B	MY41440678	Jan. 13, 2006

**NOTE:** The calibration interval of the above test instruments is 12 months.

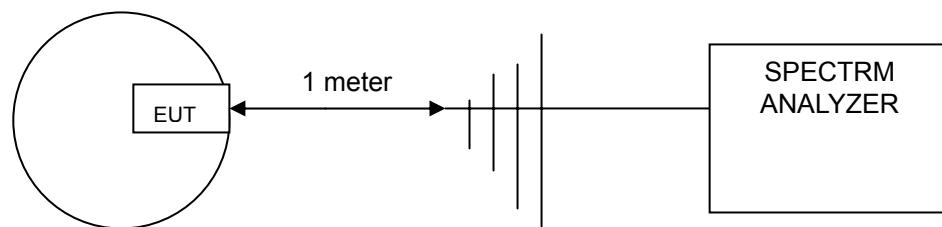
### 4.4.3 TEST PROCEDURES

1. The EUT was placed on the turning table.
2. The signal was coupled to the spectrum analyzer through an antenna.
3. Set the resolution bandwidth to 10 kHz and video bandwidth to 1MHz then select Peak function to scan the channel frequency.
4. The 20dB bandwidth was measured and recorded.

### 4.4.4 DEVIATION FROM TEST STANDARD

No deviation

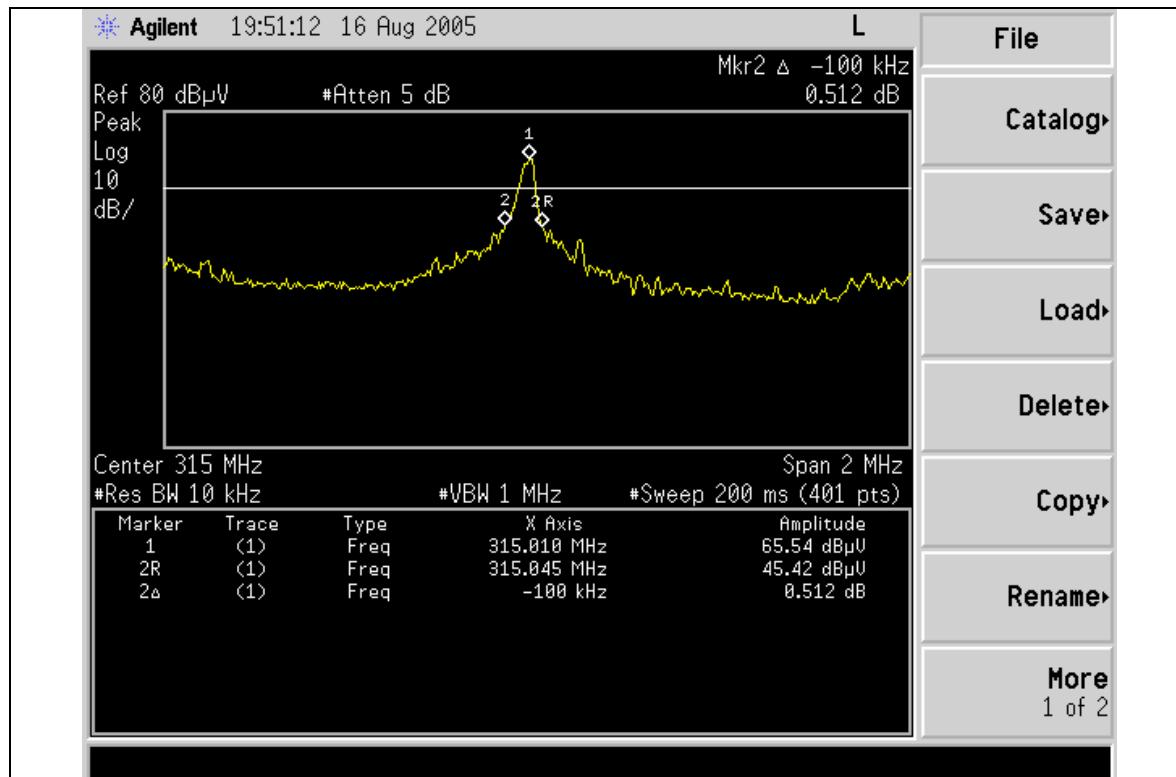
#### 4.4.5 TEST SETUP



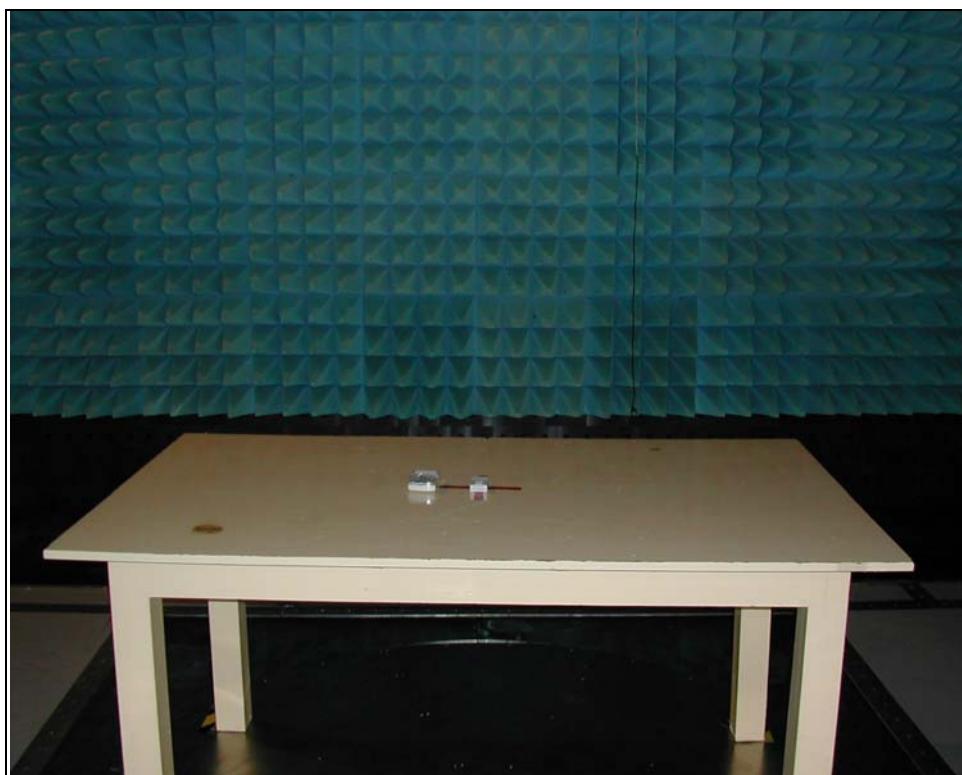
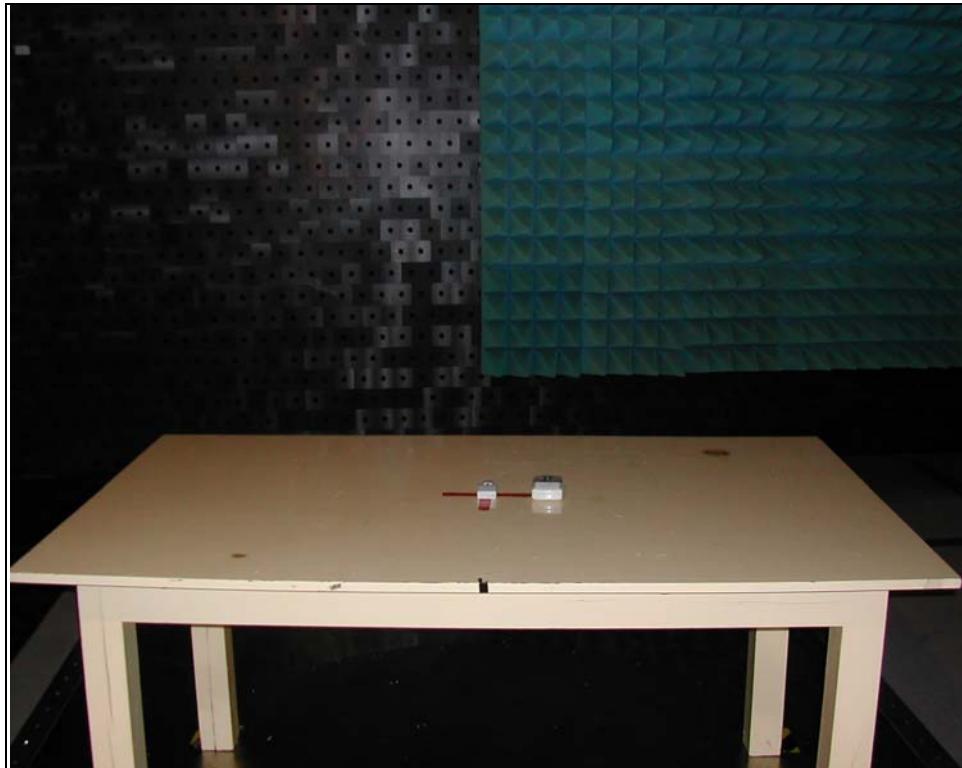
#### 4.4.6 TEST RESULTS

Frequency (MHz)	20 dB bandwidth (kHz)	Maximum limit (kHz)	PASS/FAIL
315.01	100	787.5	PASS

The plot of test result is attached as below.



## 5 PHOTOGRAPHS OF THE TEST CONFIGURATION RADIATED EMISSION TEST

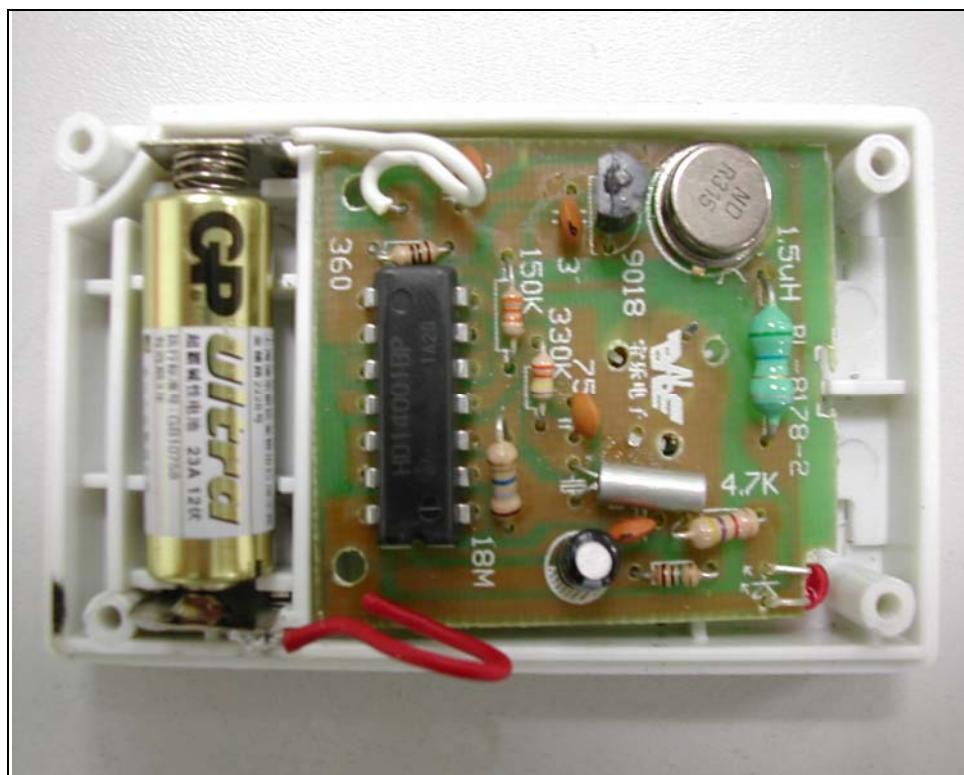
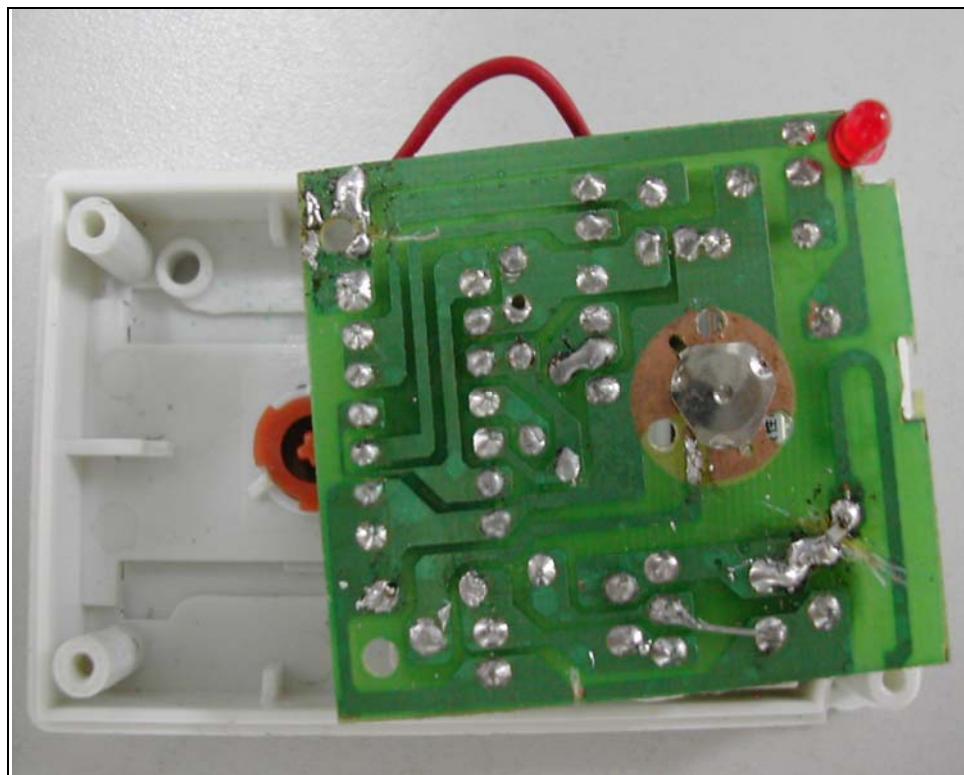


## 6 PHOTOGRAPHS OF THE EUT

Ext Photo



Int Photo





## 7 APPENDIX - 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, NVLAP, A2LA
<b>Norway</b>	DNV

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:

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