

FCC TEST REPORT

REPORT NO.: RF940304H02

MODEL NO.: M-RBB93

RECEIVED: Mar. 04, 2005

TESTED: Mar. 08 to 09, 2005

APPLICANT: LOGITECH FAR EAST LTD.

ADDRESS: #2 Creation Rd. 4, Science-Based Ind.
Park Hsinchu Taiwan, R.O.C.

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: No. 81-1, Lu Liao Keng, 9 Ling, Wu Lung
Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien,
Taiwan, R.O.C.

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0536
ILAC MRA



No. 2177-01



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1 CERTIFICATION

PRODUCT : Cordless Mouse
BRAND NAME : DELL
MODEL NO : M-RBB93
TESTED: Mar. 08 to 09, 2005
APPLICANT : LOGITECH FAR EAST LTD.
TEST ITEM: ENGINEERING SAMPLE
STANDARDS : 47 CFR Part 15, Subpart C (Section 15.249),
ANSI C63.4-2003

The above equipment (Model: M-RBB93) 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 : Midoli Peng , **DATE:** Mar. 16, 2005
(Midoli Peng)

TECHNICAL ACCEPTANCE : Hank Chung , **DATE:** Mar. 16, 2005
Responsible for RF (Hank Chung)

APPROVED BY : Eric Lin , **DATE:** Mar. 16, 2005
(Eric Lin, Manager)

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: 47 CFR Part 15, Subpart C			
Standard Paragraph	Test Type	Result	Remark
15.207	Conducted Emission Test	NA	Power supply is 1.5VDC from battery
15.249	Radiated Emission Test	PASS	Minimum passing margin is -7.0dB at 4804.00MHz
15.249	Band Edge Measurement	PASS	Meet the requirement of limit

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Cordless Mouse
MODEL NO.	M-RBB93
POWER SUPPLY	1.5VDC from battery
MODULATION TYPE	GFSK
MODULATION TECHNOLOGY	FHSS
CARRIER FREQUENCY OF EACH CHANNEL	2402MHz ~ 2480MHz
BANDWIDTH OF EACH CHANNEL	1 MHz
NUMBER OF CHANNEL	79
ANTENNA TYPE	Printed antenna with -3.43dBi antenna gain
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

1. Bluetooth technology is used for the EUT.
2. The EUT has two brand names, which are identical to each other in all aspects except for the followings:

Brand Name	Model Name
DELL	M-RBB93
Logitech	

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.

3.2 DESCRIPTION OF TEST MODES

Seventy-nine channels are provided to this EUT.

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	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

NOTE:

1. Below 1 GHz, the channel 0, 43, and 76 were pre-tested in chamber. The channel 76, worst case one, was chosen for final test.
2. Above 1 GHz, the channel 0, 43, and 76 were tested individually.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

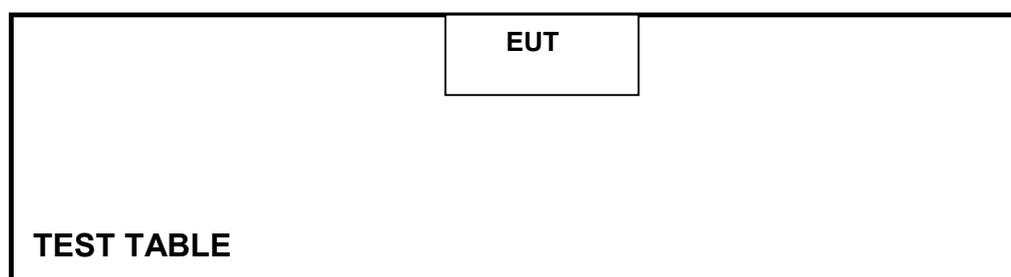
47 CFR Part 15, Subpart C (Section 15.249)
ANSI C63.4: 2003

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.

3.5 CONFIGURATION OF SYSTEM UNDER TEST



NOTE: 1. Please refer to the photos of test configuration in Item 5 also.



4 TEST PROCEDURES AND RESULTS

4.1 CONDUCTED EMISSION MEASUREMENT

NA

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

According to 15.249 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
2400 ~ 2483.5	114	94

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 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED UNTIL
HP Spectrum Analyzer	8594E	3710A04861	Sep. 23, 2005
ADVANTEST Spectrum Analyzer	R3271A	85060311	Jun. 29, 2005
CHASE RF Pre_Amplifier	CPA9232	1057	Aug. 06, 2005
HP Pre_Amplifier	8449B	3008A01922	Oct. 13, 2005
ROHDE & SCHWARZ Test Receiver	ESCS30	100287	Dec. 08, 2005
CHASE Broadband Antenna	VULB9168	138	Dec. 21, 2005
Schwarzbeck Horn_Antenna	BBHA9120	D124	Jun. 16, 2005
Schwarzbeck Horn_Antenna	BBHA 9170	BBHA9170153	Jan. 30, 2006
SCHWARZBECK Biconical Antenna	VHBA9123	459	Jun. 26, 2006
SCHWARZBECK Tunable Periodic Antenna	UPA6108	1148	Jun. 26, 2006
RF Switches (ARNITSU)	CS-201	1565157	Jul. 15, 2005
RF CABLE (Chaintek) 1GHz-20GHz	SF102	22054-2	Nov. 15, 2005
RF Cable(RICHTEC)	9913-30M	STCCAB-30M-1GHz-021	Jul. 15, 2005
Software	ADT_Radiated_V 5.14	NA	NA
CHANCE MOST Antenna Tower	AT-100	0203	NA
CHANCE MOST Turn Table	TT-100	0203	NA

Note: 1. The calibration interval of the above test instruments is 12 months (36 months for Tunable Dipole Antenna) 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 Open Site No. C.
4. The FCC Site Registration No. is 656396.
5. The VCCI Site Registration No. is R-1626.
6. The CANADA Site Registration No. is IC 4824-3.
7. The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4.

Measurement	Value
Radiated emissions (30MHz-1GHz)	2.98 dB
Radiated emissions (1GHz ~18GHz)	2.21 dB
Radiated emissions (18GHz ~20GHz)	1.88 dB



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 10 meter open area test site. 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 peak, quasi-peak or average method as specified and then reported in a data sheet.

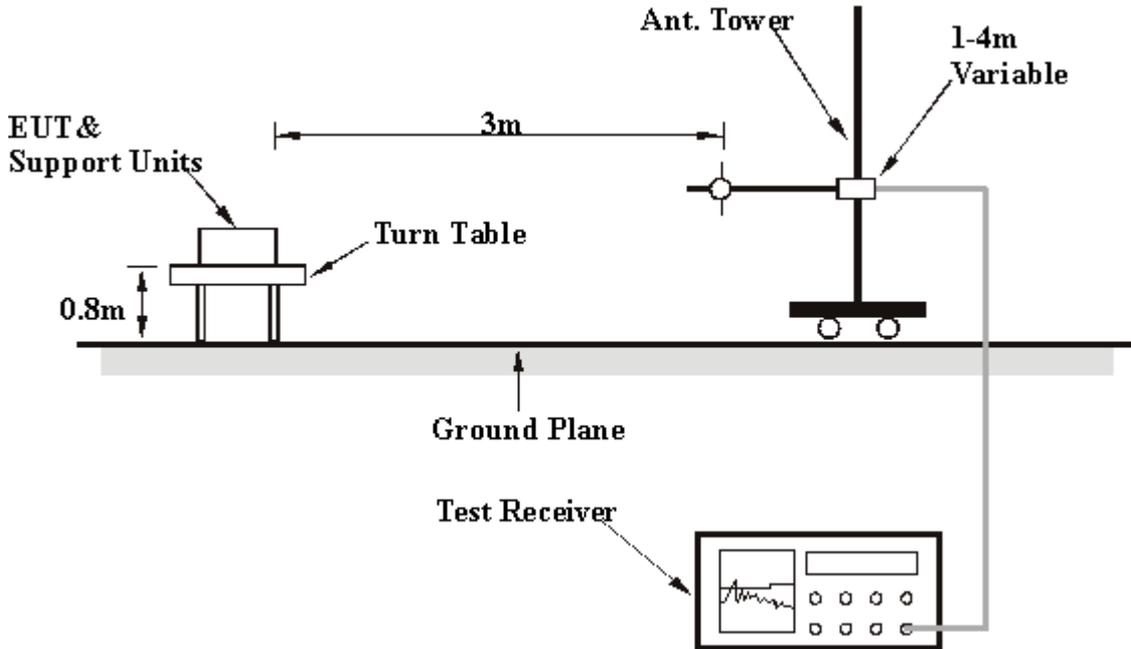
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection 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 transmitter part of EUT under transmission condition continuously at specific channel frequency.

4.2.7 TEST RESULTS

EUT	Cordless Mouse	MODEL	M-RBB93
MODE	Channel 76	FREQUENCY RANGE	30 ~1000 MHz
ENVIRONMENTAL CONDITIONS	21 deg. C, 50%RH, 978 hPa	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
TESTED BY	Sky Liao		

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	125.00	24.20 QP	43.50	-19.30	1.28 H	16	11.70	12.50
2	200.60	26.90 QP	43.50	-16.60	1.19 H	163	16.40	10.50
3	267.00	27.10 QP	46.00	-18.90	1.08 H	94	12.30	14.80
4	375.00	24.10 QP	46.00	-21.90	1.07 H	314	6.60	17.50
5	480.00	23.80 QP	46.00	-22.20	1.32 H	129	4.10	19.70
6	519.00	27.30 QP	46.00	-18.70	1.42 H	165	6.40	20.90
7	687.50	32.80 QP	46.00	-13.20	1.36 H	201	10.30	22.50

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	125.00	27.70 QP	43.50	-15.80	1.00 V	209	15.20	12.50
2	200.58	29.40 QP	43.50	-14.10	1.03 V	261	18.90	10.50
3	267.00	31.40 QP	46.00	-14.60	1.00 V	114	16.60	14.80
4	375.00	26.00 QP	46.00	-20.00	1.00 V	1	8.50	17.50
5	480.80	25.00 QP	46.00	-21.00	1.43 V	324	5.30	19.70
6	519.00	26.20 QP	46.00	-19.80	1.20 V	70	5.20	20.90
7	687.50	31.00 QP	46.00	-15.00	1.26 V	244	8.50	22.50

- 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.



EUT	Cordless Mouse	MODEL	M-RBB93
MODE	Channel 0	FREQUENCY RANGE	1000~25000 MHz
ENVIRONMENTAL CONDITIONS	18 deg. C, 58%RH, 978 hPa	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
TESTED BY	Sky Liao		

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	1608.00	42.90 PK	74.00	-31.10	1.00 H	233	15.50	27.40
1	1608.00	19.80 AV	54.00	-34.20	1.00 H	233	-7.60	27.40
2	2386.00	46.40 PK	74.00	-27.60	1.86 H	332	13.90	32.50
2	2386.00	23.30 AV	54.00	-30.70	1.86 H	332	-9.20	32.50
3	2390.00	38.80 PK	74.00	-35.20	1.56 H	310	5.10	33.70
3	2390.00	15.70 AV	54.00	-38.30	1.56 H	310	-18.00	33.70
4	2402.00	97.00 PK	114.00	-17.00	1.56 H	310	67.20	29.80
4	2402.00	73.80 AV	94.00	-20.20	1.56 H	310	44.10	29.80
5	4804.00	50.20 PK	74.00	-23.80	1.00 H	198	15.20	35.00
5	4804.00	47.00 AV	54.00	-7.00	1.00 H	198	12.00	35.00

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	1608.00	39.30 PK	74.00	-34.70	1.00 V	62	11.90	27.40
1	1608.00	16.20 AV	54.00	-37.80	1.00 V	62	-11.20	27.40
2	2386.00	41.80 PK	74.00	-32.20	1.54 V	200	9.30	32.50
2	2386.00	18.70 AV	54.00	-35.30	1.54 V	200	-13.80	32.50
3	2390.00	27.30 PK	74.00	-46.70	1.00 V	68	-6.40	33.70
3	2390.00	4.20 AV	54.00	-49.80	1.00 V	68	-29.50	33.70
4	2402.00	85.40 PK	114.00	-28.60	1.00 V	68	55.60	29.80
4	2402.00	62.30 AV	94.00	-31.70	1.00 V	68	32.50	29.80
5	4804.00	53.60 PK	74.00	-20.40	1.05 V	163	18.60	35.00
5	4804.00	30.50 AV	54.00	-23.50	1.05 V	163	-4.50	35.00

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. Margin value = Emission level - Limit value
4. " * " : Fundamental frequency
5. The other emission levels were very low against the limit.

EUT	Cordless Mouse	MODEL	M-RBB93
MODE	Channel 43	FREQUENCY RANGE	1000~25000 MHz
ENVIRONMENTAL CONDITIONS	18 deg. C, 58%RH, 978 hPa	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
TESTED BY	Sky Liao		

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	1630.00	43.30 PK	74.00	-30.70	1.10 H	212	15.90	27.40
1	1630.00	20.20 AV	54.00	-33.80	1.10 H	212	-7.20	27.40
2	2445.00	97.40 PK	114.00	-16.60	1.32 H	327	67.40	30.00
2	2445.00	77.30 AV	94.00	-16.70	1.32 H	327	47.30	30.00
3	4890.00	49.50 PK	74.00	-24.50	1.02 H	199	14.10	35.40
3	4890.00	26.40 AV	54.00	-27.60	1.02 H	199	-9.00	35.40

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	1630.00	39.70 PK	74.00	-34.30	1.63 V	308	12.30	27.40
1	1630.00	16.50 AV	54.00	-37.50	1.63 V	308	-10.90	27.40
2	2445.00	86.00 PK	114.00	-28.00	1.00 V	62	56.00	30.00
2	2445.00	62.90 AV	94.00	-31.10	1.00 V	62	32.90	30.00
3	4890.00	51.50 PK	74.00	-22.50	1.34 V	200	16.10	35.40
3	4890.00	28.40 AV	54.00	-25.60	1.34 V	200	-7.00	35.40

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. Margin value = Emission level - Limit value
4. “ * “ : Fundamental frequency
5. The other emission levels were very low against the limit.



EUT	Cordless Mouse	MODEL	M-RBB93
MODE	Channel 76	FREQUENCY RANGE	1000~25000 MHz
ENVIRONMENTAL CONDITIONS	24 deg. C, 63%RH, 978 hPa	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
TESTED BY	Sky Liao		

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	1652.00	48.70 PK	74.00	-25.30	1.57 H	238	21.20	27.50
1	1652.00	25.60 AV	54.00	-28.40	1.57 H	238	-1.90	27.50
2	2478.00	97.90 PK	114.00	-16.10	1.51 H	326	67.80	30.10
2	2478.00	74.80 AV	94.00	-19.20	1.51 H	326	44.70	30.10
3	2483.50	39.60 PK	74.00	-34.40	1.51 H	326	9.50	30.10
3	2483.50	16.50 AV	54.00	-37.50	1.51 H	326	-13.60	30.10
4	4956.00	50.10 PK	74.00	-23.90	1.16 H	198	14.50	35.60
4	4956.00	27.00 AV	54.00	-27.00	1.16 H	198	-8.60	35.60

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	1652.00	43.10 PK	74.00	-30.90	1.47 V	2	15.60	27.50
1	1652.00	19.90 AV	54.00	-34.00	1.47 V	2	-7.50	27.50
2	2478.00	86.30 PK	114.00	-27.70	1.00 V	56	56.20	30.10
2	2478.00	63.20 AV	94.00	-30.80	1.00 V	56	33.10	30.10
3	2483.50	28.20 PK	74.00	-45.80	1.00 V	56	-1.90	30.10
3	2483.50	5.10 AV	54.00	-48.90	1.00 V	56	-25.00	30.10
4	4956.00	52.60 PK	74.00	-21.40	1.32 V	177	17.00	35.60
4	4956.00	29.50 AV	54.00	-24.50	1.32 V	177	-6.10	35.60

REMARKS:

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



4.3 BAND EDGES MEASUREMENT

4.3.1 LIMITS OF BAND EDGES MEASUREMENT

Below -20dB 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
R&S SPECTRUM ANALYZER	FSP40	100036	Nov. 23, 2005

NOTE:

- 1.The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
- 2.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 lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 EUT OPERATING CONDITION

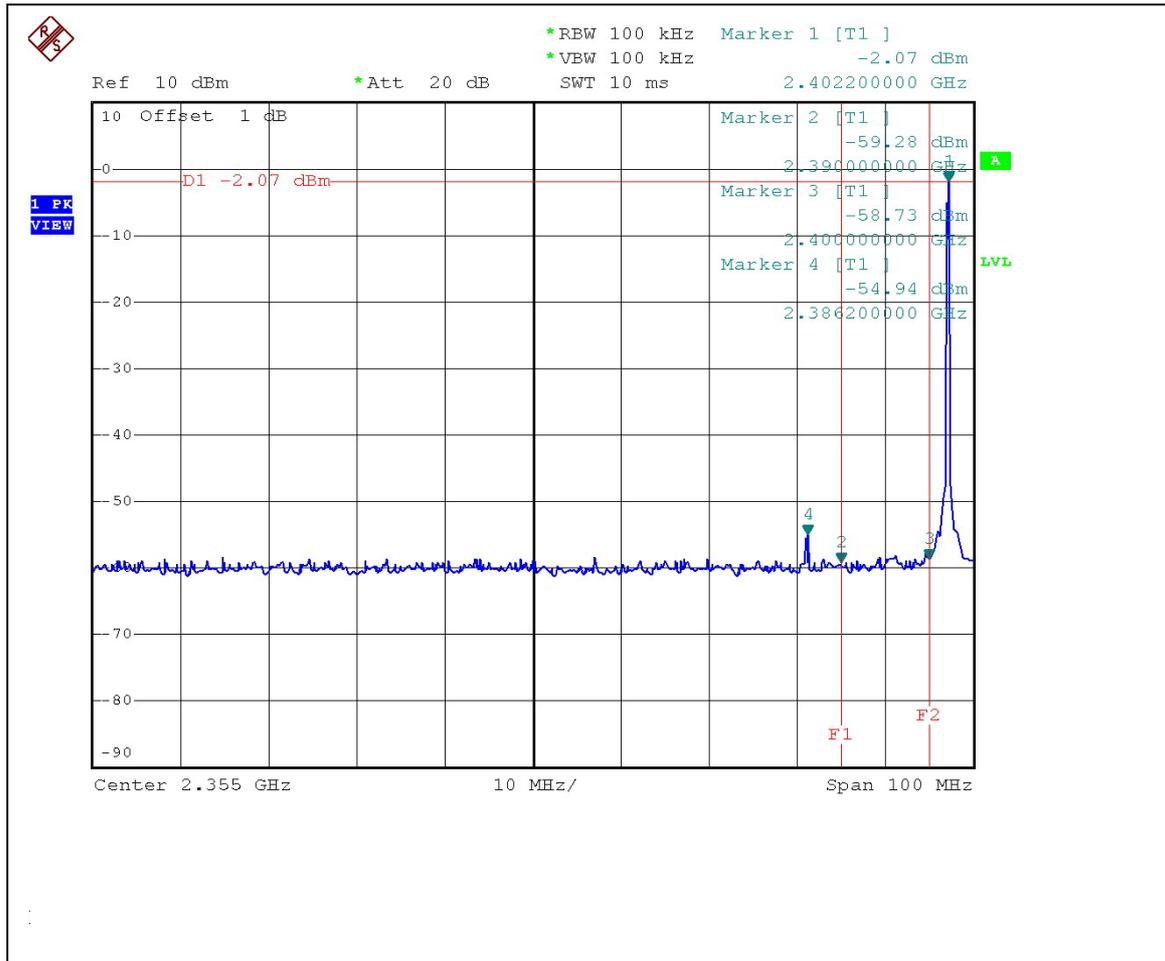
The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.



4.3.6 TEST RESULTS

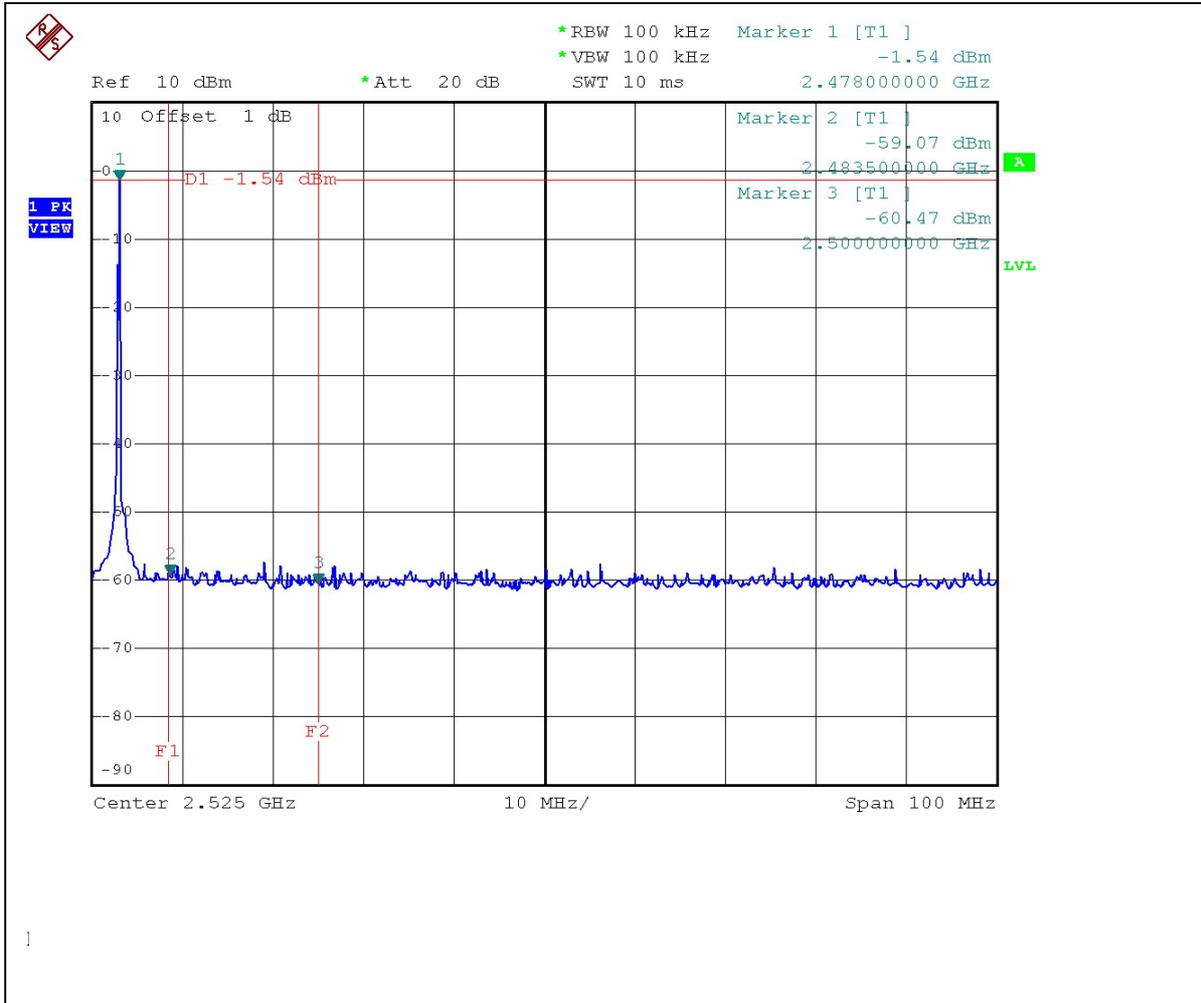
Emissions radiated outside of the specified frequency bands, please refer pages form 8 to 15 for met the requirement of the general radiated emission limits in § 15.209.

CH 0





CH 79



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:

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

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

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

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

Email: service@adt.com.tw

Web Site: www.adt.com.tw

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