

FCC TEST REPORT

REPORT NO.: RF940319H04

MODEL NO.: G-X2E14A

RECEIVED: Mar. 17, 2005

TESTED: Mar. 21 to 24, 2005

APPLICANT: LOGITECH INC.

ADDRESS: 6505 Kaiser Drive Fremont, CA 94555-3615

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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ILAC MRA



No. 2177-01

TABLE OF CONTENTS

1	CERTIFICATION.....	3
2	SUMMARY OF TEST RESULTS	4
3	GENERAL INFORMATION	5
3.1	GENERAL DESCRIPTION OF EUT	5
3.2	DESCRIPTION OF TEST MODES	6
3.3	GENERAL DESCRIPTION OF APPLIED STANDARDS.....	7
3.4	DESCRIPTION OF SUPPORT UNITS	7
3.5	CONFIGURATION OF SYSTEM UNDER TEST.....	7
4	TEST PROCEDURES AND RESULTS.....	8
4.1	CONDUCTED EMISSION MEASUREMENT.....	8
4.2	RADIATED EMISSION MEASUREMENT.....	8
4.2.1	LIMITS OF RADIATED EMISSION MEASUREMENT	8
4.2.2	TEST INSTRUMENTS.....	9
4.2.3	TEST PROCEDURES	10
4.2.4	DEVIATION FROM TEST STANDARD.....	10
4.2.5	TEST SETUP.....	11
4.2.6	TEST RESULTS	12
4.2.7	TEST RESULTS	13
4.3	BAND EDGES MEASUREMENT	16
4.3.1	LIMITS OF BAND EDGES MEASUREMENT	16
4.3.2	TEST INSTRUMENTS.....	16
4.3.3	TEST PROCEDURE.....	16
4.3.4	DEVIATION FROM TEST STANDARD.....	16
4.3.5	EUT OPERATING CONDITION.....	16
4.3.6	TEST RESULTS	17
5	PHOTOGRAPHS OF THE TEST CONFIGURATION	19
6	INFORMATION ON THE TESTING LABORATORIES.....	20

1 CERTIFICATION

PRODUCT : Logitech Cordless Precision Controller
BRAND NAME : Logitech
MODEL NO : G-X2E14A
TESTED: Mar. 21 to 24, 2005
APPLICANT : LOGITECH INC.
TEST ITEM: ENGINEERING SAMPLE
STANDARDS : 47 CFR Part 15, Subpart C (Section 15.249),
ANSI C63.4-2003

The above equipment (Model: G-X2E14A) 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 : Carol Liao , **DATE:** Mar. 28, 2005
(Carol Liao)

TECHNICAL
ACCEPTANCE : Hank Chung , **DATE:** Mar. 28, 2005
Responsible for RF (Hank Chung)

APPROVED BY : Eric Lin , **DATE:** Mar. 28, 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	N/A	Power supply is 3VDC from batteries
15.249	Radiated Emission Test	PASS	Minimum passing margin is -3.30dB at 4804.00MHz
15.249	Band Edge Measurement	PASS	Meet the requirement of limit

NOTE: The information of measurement uncertainty is available upon the customer's request.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Logitech Cordless Precision Controller
MODEL NO.	G-X2E14A
POWER SUPPLY	3.0VDC from batteries
MODULATION TYPE	FSK
MODULATION TECHNOLOGY	FHSS
CARRIER FREQUENCY OF EACH CHANNEL	2402MHz ~ 2480MHz
BANDWIDTH OF EACH CHANNEL	1MHz
NUMBER OF CHANNEL	79
ANTENNA TYPE	PCB strip antenna
DATA CABLE	NA
I/O PORTS	NA
ASSOCIATED DEVICES	NA

NOTE:

1. 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

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

NOTE:

- Below 1 GHz, the channel 0, 39, and 78 were pre-tested in chamber. The channel 78, worst case one, was chosen for final test.
- Above 1 GHz, the channel 0, 39, and 78 were tested individually.
- The EUT was a wireless gamepad for handheld. The following test modes for three different axes placements were pre-tested in chamber. The test mode 2, worst case one, was chosen for final test and its data were recorded in this report:

Test Mode	Description
Mode 1	level
Mode 2	upright
Mode 3	flank

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

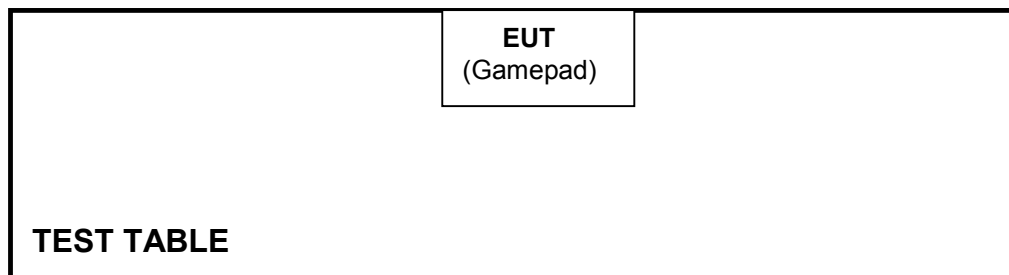
FCC 47 CFR Part 15, Subpart C. (15.249)
ANSI C63.4: 2003

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.

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	$2400/F(\text{kHz})$	300
0.490-1.705	$24000/F(\text{kHz})$	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.

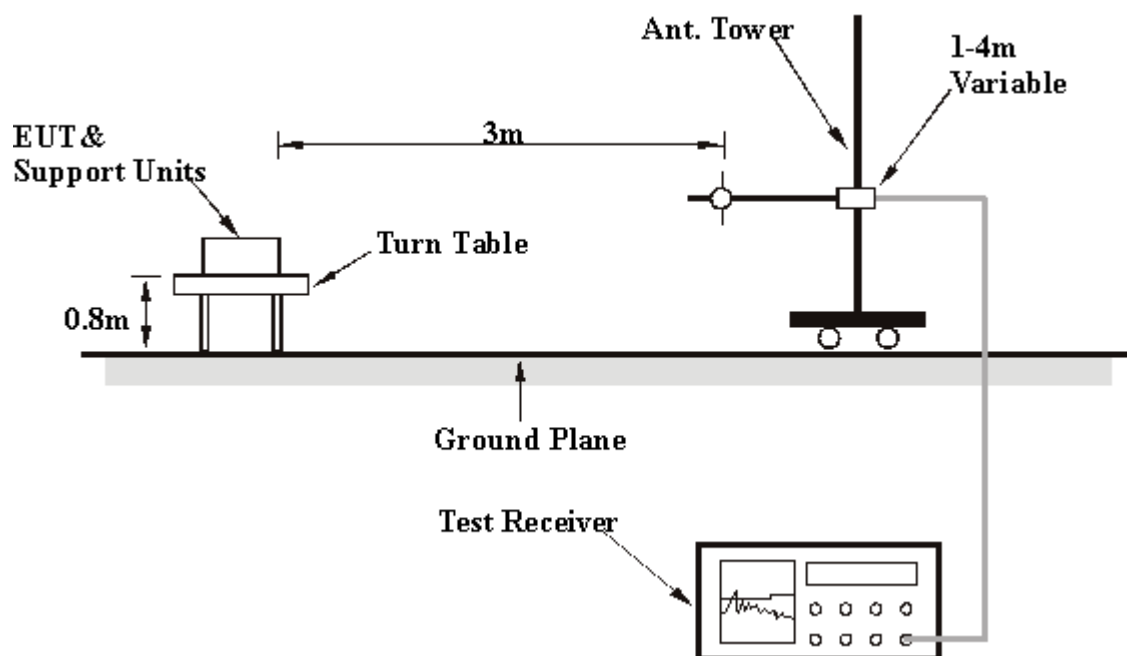
NOTE:

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 TEST RESULTS

EUT	Logitech Cordless Precision Controller	MODEL	G-X2E14A
MODE	Channel 78	FREQUENCY RANGE	30 ~1000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Quasi-Peak, 120kHz
ENVIRONMENTAL CONDITIONS	18 deg. C, 55%RH, 975 hPa	TESTED BY	Rex Huang

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	78.00	24.90 QP	40.00	-15.10	2.20 H	114	14.50	10.40
2	130.00	25.40 QP	43.50	-18.10	1.88 H	81	13.10	12.30
3	182.00	26.40 QP	43.50	-17.10	1.55 H	53	14.00	12.40
4	260.00	25.70 QP	46.00	-20.30	1.74 H	298	12.30	13.40
5	390.00	31.40 QP	46.00	-14.60	1.86 H	312	13.30	18.10
6	520.00	29.70 QP	46.00	-16.30	1.35 H	181	8.20	21.40

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	78.00	24.90 QP	40.00	-15.10	1.00 V	131	14.50	10.40
2	130.00	24.80 QP	43.50	-18.70	1.00 V	191	12.50	12.30
3	182.00	30.30 QP	43.50	-13.20	1.00 V	39	17.90	12.40
4	260.00	26.40 QP	46.00	-19.60	1.00 V	236	13.00	13.40
5	390.00	30.60 QP	46.00	-15.40	1.00 V	333	12.50	18.10
6	520.00	30.50 QP	46.00	-15.50	1.48 V	346	9.10	21.40

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. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

4.2.7 TEST RESULTS

EUT	Logitech Cordless Precision Controller	MODEL	G-X2E14A
MODE	Channel 0	FREQUENCY RANGE	1000~25000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	18 deg. C, 63%RH, 975 hPa	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	2350.00	63.40 PK	74.00	-10.60	1.07 H	201	33.00	30.40
1	2350.00	36.20 AV	54.00	-17.80	1.07 H	201	5.80	30.40
2	2376.00	49.10 PK	74.00	-24.90	1.04 H	221	18.60	30.60
2	2376.00	22.00 AV	54.00	-32.00	1.04 H	221	-8.60	30.60
3	2390.00	43.80 PK	74.00	-30.20	1.01 H	269	10.10	33.70
3	2390.00	16.60 AV	54.00	-37.40	1.01 H	269	-17.10	33.70
4	2402.00	94.80 PK	114.00	-19.20	1.01 H	269	65.00	29.80
4	2402.00	67.60 AV	94.00	-26.40	1.01 H	269	37.90	29.80
5	4804.00	70.70 PK	74.00	-3.30	1.14 H	301	35.70	35.00
5	4804.00	43.50 AV	54.00	-10.50	1.14 H	301	8.50	35.00
6	7206.00	62.80 PK	74.00	-11.20	1.12 H	300	22.30	40.40
6	7206.00	35.60 AV	54.00	-18.40	1.12 H	300	-4.80	40.40

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	2350.00	62.60 PK	74.00	-11.40	1.28 V	153	32.20	30.40
1	2350.00	35.50 AV	54.00	-18.50	1.28 V	153	5.10	30.40
2	2376.00	61.20 PK	74.00	-12.80	1.00 V	126	30.60	30.60
2	2376.00	34.10 AV	54.00	-19.90	1.00 V	126	3.50	30.60
3	2390.00	44.10 PK	74.00	-29.90	1.04 V	171	10.40	33.70
3	2390.00	17.00 AV	54.00	-37.00	1.04 V	171	-16.70	33.70
4	2402.00	95.10 PK	114.00	-18.90	1.04 V	171	65.30	29.80
4	2402.00	68.00 AV	94.00	-26.00	1.04 V	171	38.20	29.80
5	4804.00	69.40 PK	74.00	-4.60	1.23 V	324	34.30	35.00
5	4804.00	42.20 AV	54.00	-11.80	1.23 V	324	7.20	35.00
6	7206.00	58.30 PK	74.00	-15.70	1.06 V	279	17.80	40.40
6	7206.00	31.10 AV	54.00	-22.90	1.06 V	279	-9.30	40.40

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	Logitech Cordless Precision Controller	MODEL	G-X2E14A
MODE	Channel 39	FREQUENCY RANGE	1000~25000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	18 deg. C, 63%RH, 975 hPa	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	2441.00	95.70 PK	114.00	-18.30	1.18 H	200	65.80	29.90
1	2441.00	68.60 AV	94.00	-25.40	1.18 H	200	38.70	29.90
2	2489.00	62.30 PK	74.00	-11.70	1.00 H	22	32.10	30.10
2	2489.00	35.10 AV	54.00	-18.90	1.00 H	22	5.00	30.10
3	2554.00	68.20 PK	74.00	-5.80	1.18 H	26	37.60	30.60
3	2554.00	41.10 AV	54.00	-12.90	1.18 H	26	10.50	30.60
4	4882.00	65.30 PK	74.00	-8.70	1.08 H	106	29.90	35.30
4	4882.00	38.50 AV	54.00	-15.50	1.08 H	106	3.10	35.30
5	7323.00	60.90 PK	74.00	-13.10	1.50 H	122	20.20	40.70
5	7323.00	33.80 AV	54.00	-20.20	1.50 H	122	-6.90	40.70

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	2441.00	93.70 PK	114.00	-20.30	1.00 V	175	63.80	29.90
1	2441.00	66.70 AV	94.00	-27.30	1.00 V	175	36.80	29.90
2	2489.00	62.20 PK	74.00	-11.80	1.57 V	342	32.00	30.10
2	2489.00	35.10 AV	54.00	-18.90	1.57 V	342	4.90	30.10
3	2554.00	66.50 PK	74.00	-7.50	1.70 V	97	35.90	30.60
3	2554.00	39.40 AV	54.00	-14.60	1.70 V	97	8.80	30.60
4	4882.00	70.00 PK	74.00	-4.00	1.04 V	133	34.60	35.30
4	4882.00	42.90 AV	54.00	-11.10	1.04 V	133	7.50	35.30
5	7323.00	56.90 PK	74.00	-17.10	1.39 V	172	16.20	40.70
5	7323.00	29.80 AV	54.00	-24.20	1.39 V	172	-10.90	40.70

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	Logitech Cordless Precision Controller	MODEL	G-X2E14A
MODE	Channel 78	FREQUENCY RANGE	1000~25000 MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION & BANDWIDTH	Peak (PK) Average (AV) 1 MHz
ENVIRONMENTAL CONDITIONS	18 deg. C, 63%RH, 975 hPa	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	2480.00	96.10 PK	114.00	-17.90	1.42 H	204	66.00	30.10
1	2480.00	69.00 AV	94.00	-25.00	1.42 H	204	38.90	30.10
2	2483.50	51.30 PK	74.00	-22.70	1.42 H	204	21.20	30.10
2	2483.50	24.20 AV	54.00	-29.80	1.42 H	204	-5.90	30.10
3	2488.50	54.80 PK	74.00	-19.20	1.16 H	215	24.60	30.10
3	2488.50	27.60 AV	54.00	-26.40	1.16 H	215	-2.50	30.10
4	2519.00	50.20 PK	74.00	-23.80	1.16 H	198	19.60	30.50
4	2519.00	23.10 AV	54.00	-30.90	1.16 H	198	-7.50	30.50
5	2553.60	64.10 PK	74.00	-9.90	1.16 H	19	33.40	30.60
5	2553.60	37.00 AV	54.00	-17.00	1.16 H	19	6.40	30.60
6	4960.00	65.80 PK	74.00	-8.20	1.00 H	126	30.10	35.70
6	4960.00	38.70 AV	54.00	-15.30	1.00 H	126	3.00	35.70
7	7440.00	60.40 PK	74.00	-13.60	1.57 H	134	19.40	40.90
7	7440.00	33.20 AV	54.00	-20.80	1.57 H	134	-7.70	40.90

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	2480.00	93.10 PK	114.00	20.90	1.00 V	165	63.00	30.10
1	2480.00	66.00 AV	94.00	28.00	1.00 V	165	35.90	30.10
2	2483.50	48.40 PK	74.00	-25.60	1.00 V	165	18.30	30.10
2	2483.50	21.20 AV	54.00	-32.80	1.00 V	165	-8.90	30.10
3	2488.50	57.30 PK	74.00	-16.70	1.43 V	271	27.10	30.10
3	2488.50	30.20 AV	54.00	-23.80	1.43 V	271	0.00	30.10
4	2519.00	46.40 PK	74.00	-27.60	1.41 V	71	15.80	30.50
4	2519.00	19.40 AV	54.00	-34.60	1.41 V	71	-11.20	30.50
5	2553.60	62.50 PK	74.00	-11.50	1.44 V	104	31.90	30.60
5	2553.60	35.50 AV	54.00	-18.50	1.44 V	104	4.90	30.60
6	4960.00	69.60 PK	74.00	-4.40	1.20 V	226	33.90	35.70
6	4960.00	42.50 AV	54.00	-11.50	1.20 V	226	6.80	35.70
7	7440.00	56.80 PK	74.00	-17.20	1.22 V	61	15.80	40.90
7	7440.00	29.70 AV	54.00	-24.30	1.22 V	61	-11.30	40.90

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.

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

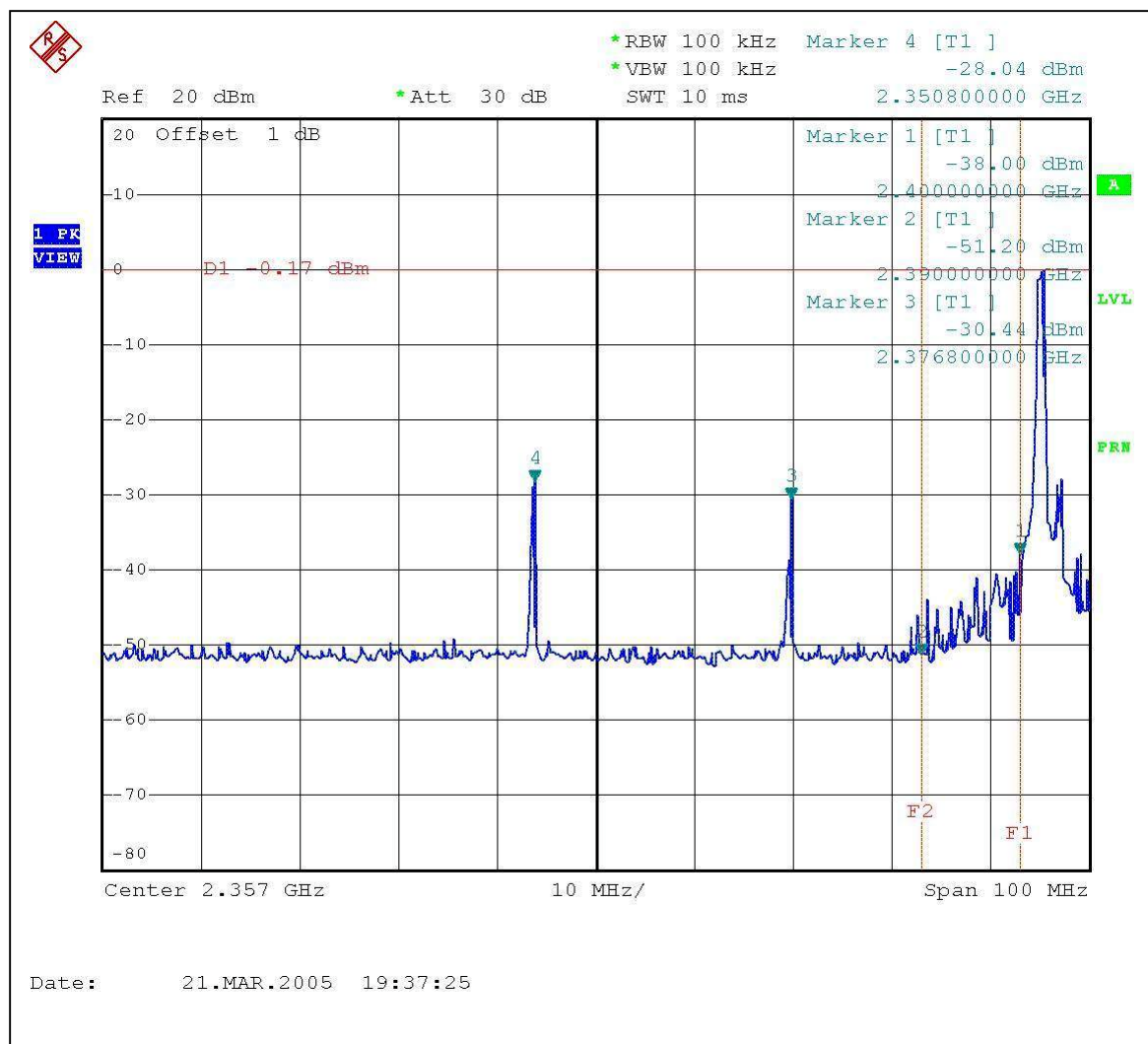
4.3.5 EUT OPERATING CONDITION

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

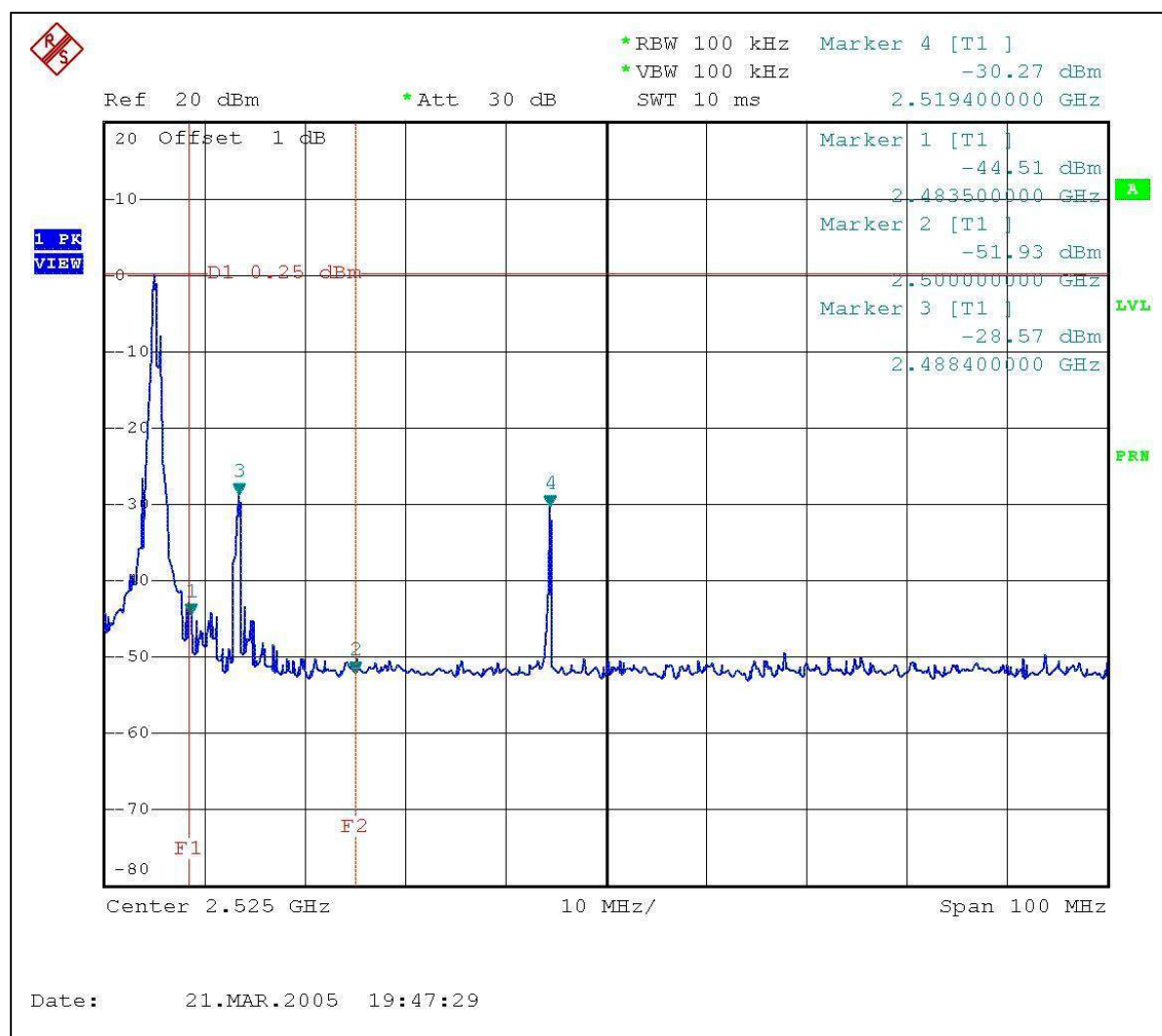
4.3.6 TEST RESULTS

Emissions radiated outside of the specified frequency bands, please refer pages form 12 to 15 for met the requirement of the general radiated emission limits in § 15.209.

CH 0



CH 78



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:

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Web Site: www.adt.com.tw

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