



FCC TEST REPORT

REPORT NO.: RF90050903

MODEL NO.: 1410 U/P

RECEIVED: May 9, 2001

TESTED: May 30 ~ June 1, 2001

APPLICANT: Chic Technology Corporation

ADDRESS: 16F, No.150, Chien-I Road, Chung Ho,
Taipei, Taiwan,R.O.C.

ISSUED BY: Advance Data Technology Corporation

LAB LOCATION: 47 14th Lin, Chiapau Tsun, Linko, Taipei,
Taiwan, R.O.C.

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0528



Lab Code: 200102-0



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1 CERTIFICATION

PRODUCT : RF Wireless Optical Mouse (Transmitter part)
BRAND NAME : Chic
MODEL NO : 1410 U/P
APPLICANT : Chic Technology Corporation
STANDARDS : 47 CFR Part 15, Subpart C,
ANSI C63.4-1992

We, **Advance Data Technology Corporation**, hereby certify that one sample of the designation has been tested in our facility from May 30, 2001 to June 1, 2001. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions herein specified.

TESTED BY: Gary Chang , **DATE:** June 8, 2001
(Gary Chang)

CHECKED BY: Demi Chen , **DATE:** June 8, 2001
(Demi Chen)

APPROVED BY: Harris W. Lai , **DATE:** June 8, 2001
(Harris W. Lai)

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 |
| 15.107 | Conducted Emission Test | N/A | Minimum passing margin is -6.21dBuV at 0.50100MHz |
| 15.227 | Radiated Emission Test | PASS | Minimum passing margin is -2.8dBuV at 54.65MHz |

NOTE: The receiver part to communicate with the EUT has been verified to comply with FCC Part 15, Subpart B, Class B (DoC). The test report can be provided upon request.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| | |
|--|---|
| PRODUCT | RF Wireless Optical Mouse (Transmitter part) |
| MODEL NO. | 1410 U/P |
| POWER SUPPLY | 3VDC from battery (1.5V x 2) for transmitter 6VDC from adapter for charged mode of transmitter |
| MODULATION TYPE | FSK |
| FREQUENCY RANGE | NA |
| CARRIER FREQUENCY OF EACH CHANNEL | 27.045MHz, 27.095MHz |
| BANDWIDTH OF EACH CHANNEL | NA |
| NUMBER OF CHANNEL | 2 |
| ANTENNA TYPE | Printed Antenna |
| DATA CABLE | NA |
| I/O PORTS | NA |
| ASSOCIATED DEVICES | NA |

NOTE:

- The EUT is the transmitter part of a RF Wireless Optical Mouse. It is designed to support re-chargeable batteries use.
- There were two kinds of power supply as below for EUT.
Mode 2 was chosen for final test as it has worse emission.

| Mode | 1 | 2 |
|---------------------|---------|---------------|
| Power Supply | Battery | Power Adapter |

The power adapter below was used for the test and it can be kept working while the batteries in EUT are charged.

| | |
|-----------------------|-------------|
| Model Name : | RGD-3506003 |
| Input Power : | 120V 60Hz |
| Output Power : | 6VDC 200mA |

- For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

3.2 DESCRIPTION OF TEST MODES

Two channels are provided in this EUT.

| Channel | Frequency | Channel | Frequency |
|---------|------------|---------|-----------|
| 1 | 27.045 MHz | | |
| 2 | 27.145 MHz | | |

NOTE: The channel 1, worst case one, was chosen for final test.

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is the transmitter part of a RF Wireless Optical Mouse. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC CFR 47 Part 15, Subpart C

ANSI C63.4-1992

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

3.4 DESCRIPTION OF SUPPORT UNITS

NA

4 TEST PROCEDURE AND RESULT

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

| FREQUENCY (MHz) | Class A (dBuV) | | Class B (dBuV) | |
|-----------------|----------------|---------|----------------|---------|
| | Quasi-peak | Average | Quasi-peak | Average |
| 0.45 – 30 | 48 | - | 48 | - |
| | | | | |
| | | | | |

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.1.2 TEST INSTRUMENT

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED UNTIL |
|--|-----------|--------------|------------------|
| ROHDE & SCHWARZ Test Receiver | ESHS30 | 828109/007 | July 6, 2001 |
| ROHDE & SCHWARZ Artificial Mains Network (for EUT) | ESH3-Z5 | 839135/006 | July 9, 2001 |
| ROHDE & SCHWARZ 4-wire ISN | ENY41 | 837032/016 | Nov. 28, 2001 |
| ROHDE & SCHWARZ 2-wire ISN | ENY22 | 837497/016 | Dec. 3, 2001 |
| EMCO-L.I.S.N. (for peripheral) | 3825/2 | 9204-1964 | July 9, 2001 |
| Software | Cond-V2e | NA | NA |
| RF cable (JYEBAO) | RG-58A/U | Cable-C02.01 | July 9, 2001 |
| HP Terminator (For EMCO LISN) | 11593A | E1-01-298 | Feb. 20, 2002 |
| HP Terminator (For EMCO LISN) | 11593A | E1-01-299 | Feb. 20, 2002 |
| Shielded Room | Site 2 | ADT-C02 | NA |
| VCCI Site Registration No. | Site 2 | C-240 | NA |

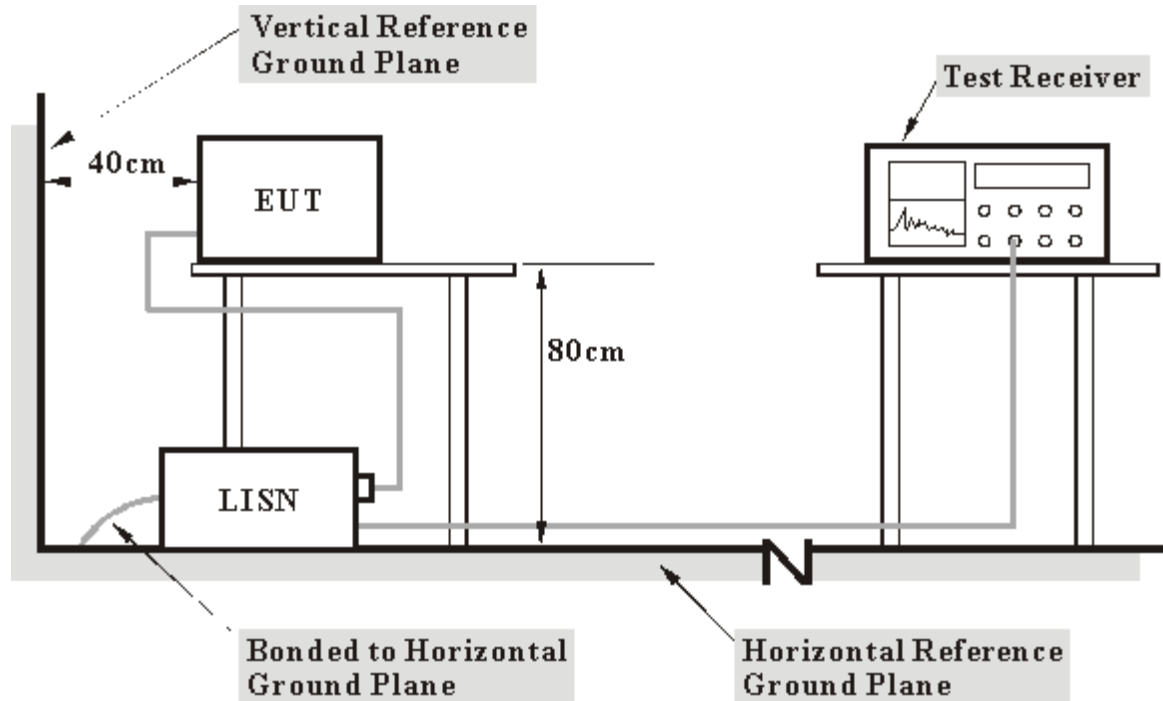
NOTE:

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.

4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits could not be reported.

4.1.4 TEST SETUP



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

For the actual test configuration, please refer to the related item in this test report - Photographs of the Test Configuration.

4.1.5 EUT OPERATING CONDITION

The EUT was set to enable EUT under transmission condition continuously at specific channel frequency.



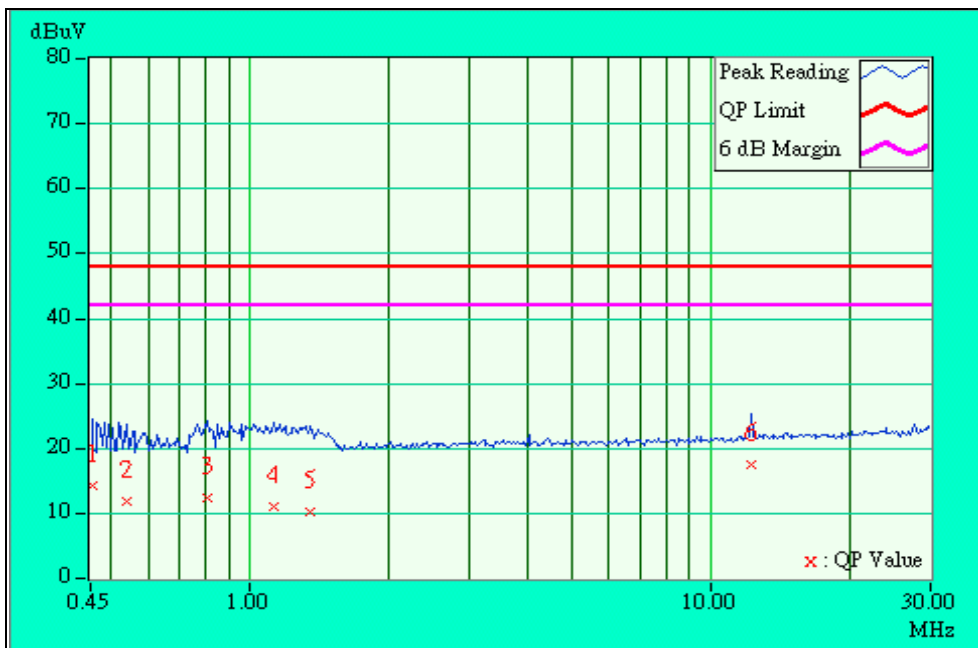
4.1.6 TEST RESULT

| | | | |
|---------------------------------|--|------------------------------|----------|
| EUT | RF Wireless Optical Mouse (Transmitter part) | MODEL | 1410 U/P |
| MODE | Channel 1 | 6dB BANDWIDTH | 10 kHz |
| INPUT POWER | 110Vac, 60 Hz | PHASE | Line (L) |
| ENVIRONMENTAL CONDITIONS | 25 deg. C, 60%RH, 1005 hPa | TESTED BY: Gary Chang | |

| No | Freq. (MHz) | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|-------------|-------------------|-------------------------|-----|--------------------------|-----|-----------------|-----|-------------|-----|
| | | | QP. | AV. | QP. | AV. | QP. | AV. | QP. | AV. |
| 1 | 0.45300 | 0.20 | 14.28 | --- | 14.48 | --- | 48.00 | --- | -33.52 | --- |
| 2 | 0.53700 | 0.20 | 11.80 | --- | 12.00 | --- | 48.00 | --- | -36.00 | --- |
| 3 | 0.81000 | 0.20 | 12.45 | --- | 12.65 | --- | 48.00 | --- | -35.35 | --- |
| 4 | 1.12500 | 0.20 | 11.09 | --- | 11.29 | --- | 48.00 | --- | -36.71 | --- |
| 5 | 1.34700 | 0.20 | 10.21 | --- | 10.41 | --- | 48.00 | --- | -37.59 | --- |
| 6 | 12.25400 | 0.84 | 17.41 | --- | 18.25 | --- | 48.00 | --- | -29.75 | --- |

NOTE:

1. QP. and AV. are abbreviations of quasi-peak and average individually.
2. "-": NA
3. The emission levels of other frequencies were very low against the limit.
4. Margin value = Emission level - Limit value
5. Emission Level = Reading Value + Correction Factor.



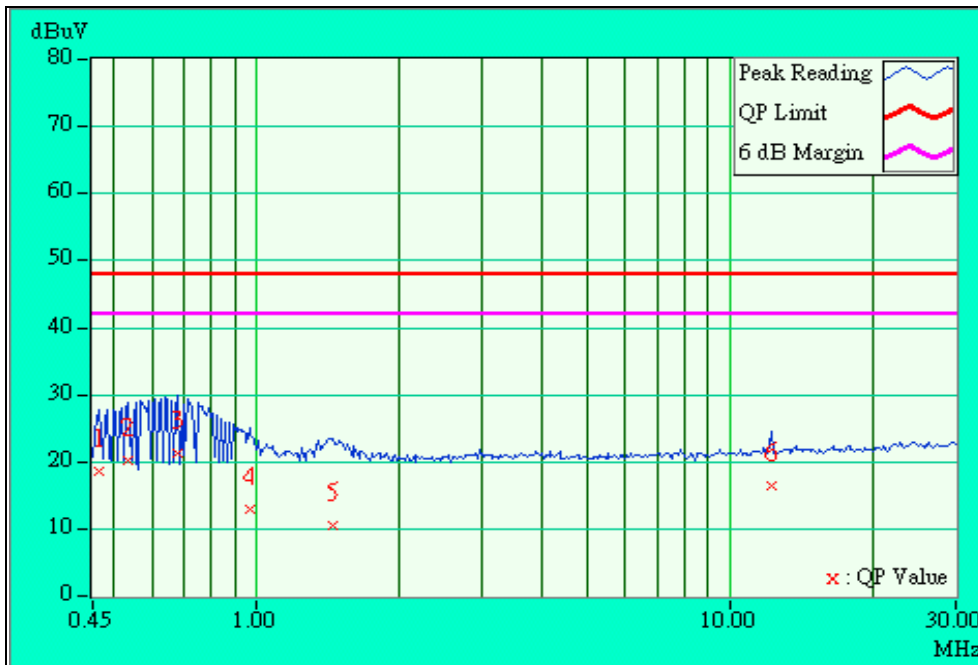


| | | | |
|---------------------------------|--|------------------------------|-------------|
| EUT | RF Wireless Optical Mouse (Transmitter part) | MODEL | 1410 U/P |
| MODE | Channel 1 | 6dB BANDWIDTH | 10 kHz |
| INPUT POWER | 110Vac, 60 Hz | PHASE | Neutral (N) |
| ENVIRONMENTAL CONDITIONS | 25 deg. C, 60%RH, 1005 hPa | TESTED BY: Gary Chang | |

| No | Freq. (MHz) | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|-------------|-------------------|-------------------------|-----|--------------------------|-----|-----------------|-----|-------------|-----|
| | | | QP. | AV. | QP. | AV. | QP. | AV. | QP. | AV. |
| 1 | 0.46200 | 0.20 | 18.51 | --- | 18.71 | --- | 48.00 | --- | -29.29 | --- |
| 2 | 0.53400 | 0.20 | 20.07 | --- | 20.27 | --- | 48.00 | --- | -27.73 | --- |
| 3 | 0.68100 | 0.20 | 21.15 | --- | 21.35 | --- | 48.00 | --- | -26.65 | --- |
| 4 | 0.96300 | 0.20 | 12.90 | --- | 13.10 | --- | 48.00 | --- | -34.90 | --- |
| 5 | 1.44600 | 0.20 | 10.55 | --- | 10.75 | --- | 48.00 | --- | -37.25 | --- |
| 6 | 12.25400 | 0.74 | 16.31 | --- | 17.05 | --- | 48.00 | --- | -30.95 | --- |

NOTE:

- 6. QP. and AV. are abbreviations of quasi-peak and average individually.
- 7. "-": NA
- 8. The emission levels of other frequencies were very low against the limit.
- 9. Margin value = Emission level - Limit value
- 10. Emission Level = Reading Value + Correction Factor.





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:

| Other Frequencies (MHz) | Field Strength of Fundamental | |
|-------------------------|-------------------------------|------------|
| | uV/meter | dBuV/meter |
| 30-88 | 100 | 40.0 |
| 88-216 | 150 | 43.5 |
| 216-960 | 200 | 46.0 |
| Above 960 | 500 | 54.0 |

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 Spectrum Analyzer | 8590L | 3544A01176 | April 18, 2001 |
| HP Preamplifier | 8447D | 2944A08485 | April 26, 2001 |
| * HP Preamplifier | 8449B | 3008A01201 | Dec. 13, 2001 |
| * ROHDE & SCHWARZ TEST RECEIVER | ESMI | 839013/007 839379/002 | Jan. 25, 2002 |
| SCHWARZBECK Tunable Dipole Antenna | VHA 9103 UHA 9105 | E101051 E101055 | Nov. 23, 2001 |
| * CHASE BILOG Antenna | CBL6112A | 2221 | Aug. 4, 2001 |
| * EMCO Turn Table | 1060 | 1115 | NA |
| * SHOSHIN Tower | AP-4701 | A6Y005 | NA |
| * Software | AS61D | NA | NA |
| * ANRITSU RF Switches | MP59B | M35046 | Aug. 4, 2001 |
| * TIMES RF cable | LMR-600 | CABLE-ST5-01 | Aug. 4, 2001 |
| Open Field Test Site | Site 5 | ADT-R05 | July 28, 2001 |
| Site Registration No. | FCC: 90422 VCCI : R-1039 Canada IC: IC 3789-5 | | |

NOTE:

1. "*" = These equipments are used for the final measurement.
2. The preamplifiers are not used while R&S receiver is doing the measurements.
3. The measurement uncertainty is less than +/- 3.0dB, which is calculated as per the NAMAS document NIS81.
4. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

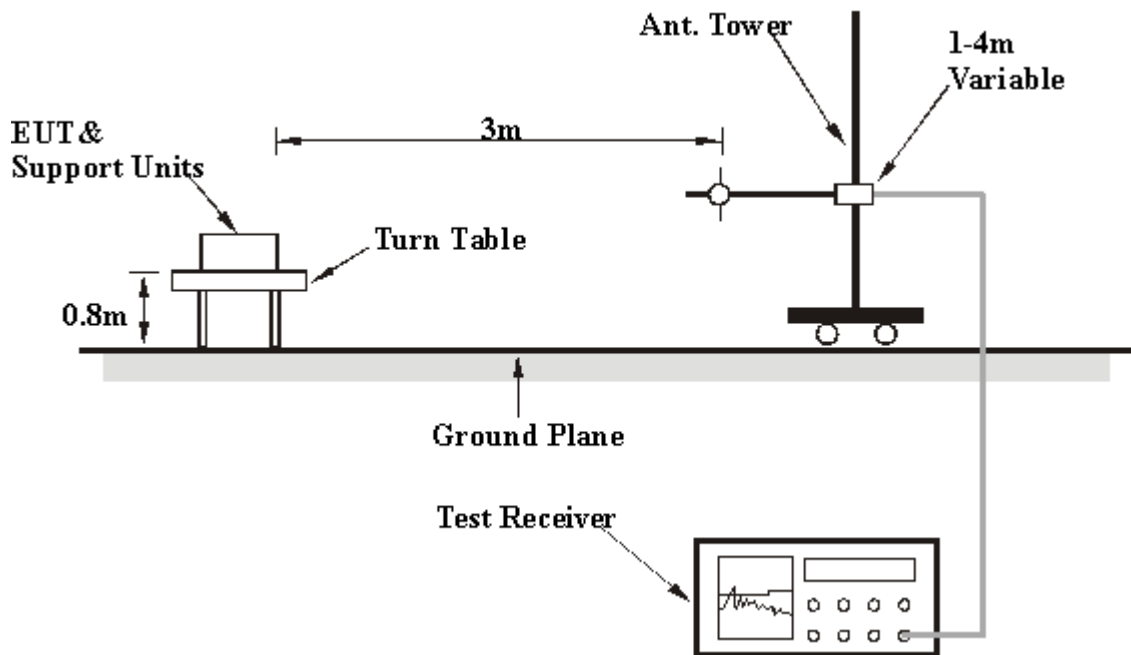
4.2.3 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 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 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 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 300 Hz for Average detection (AV) at frequency above 1GHz.

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

Same as 4.1.5

4.2.6 TEST RESULT

| | | | |
|---------------------------------|---|--|---------------------------|
| EUT | RF Wireless Optical Mouse (Transmitter Part) | MODEL | 1410 U/P |
| MODE | Channel 1 | FREQUENCY RANGE | 30-1000 MHz |
| INPUT POWER (SYSTEM) | 120Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Peak / Quasi-Peak, 120kHz |
| ENVIRONMENTAL CONDITIONS | 25 deg. C, 60 % RH, 1050 hPa | TESTED BY: Gary Chang | |

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) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-Amp. Factor (dB) | Correction Factor (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|-----------------------------|-------------------------|----------------------------|--------------------------------|
| 1 | *27.09 | 40.5 PK | 100.00 | -59.50 | 1.00H | 18 | 58.68 | 6.80 | 2.03 | 27.00 | 18.18 |
| 2 | *27.09 | 34.1 AV | 80.00 | -45.90 | 1.00H | 18 | 25.30 | 6.80 | 2.03 | 0.00 | -8.83 |
| 3 | 54.68 | 24.9 QP | 40.00 | -15.10 | 1.00H | 346 | 16.80 | 6.02 | 2.08 | 0.00 | -8.11 |
| 4 | 108.50 | 28.7 QP | 43.50 | -14.80 | 1.00H | 141 | 15.60 | 10.80 | 2.31 | 0.00 | -13.12 |
| 5 | 135.68 | 31.6 QP | 43.50 | -11.90 | 1.00H | 90 | 18.20 | 10.84 | 2.55 | 0.00 | -13.39 |
| 6 | 189.42 | 28.4 QP | 43.50 | -15.10 | 1.00H | 42 | 17.20 | 8.51 | 2.73 | 0.00 | -11.25 |
| 7 | 216.45 | 28.1 QP | 46.00 | -17.90 | 1.00H | 38 | 15.80 | 9.43 | 2.82 | 0.00 | -12.26 |
| 8 | 325.68 | 31.2 QP | 46.00 | -14.80 | 2.18H | 29 | 14.80 | 13.20 | 3.24 | 0.00 | -16.44 |

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
(Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value
5. " * " : Fundamental frequency



| | | | |
|---------------------------------|--|--|---------------------------|
| EUT | RF Wireless Optical Mouse (Transmitter Part) | MODEL | 1410 U/P |
| MODE | Channel 1 | FREQUENCY RANGE | 30-1000 MHz |
| INPUT POWER (SYSTEM) | 110Vac, 60 Hz | DETECTOR FUNCTION & BANDWIDTH | Peak / Quasi-Peak, 120kHz |
| ENVIRONMENTAL CONDITIONS | 25 deg. C, 60 % RH, 1050 hPa | TESTED BY: Gary Chang | |

| 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) | Antenna Factor (dB/m) | Cable Factor (dB) | Pre-Amp. Factor (dB) | Correction Factor (dB/m) |
| 1 | *27.00 | 42.4 PK | 100.00 | -57.60 | 1.00V | 352 | 60.58 | 6.80 | 2.03 | 27.00 | 18.17 |
| 2 | *27.15 | 35.8 AV | 80.00 | -44.20 | 1.00V | 352 | 27.00 | 6.80 | 2.03 | 0.00 | -8.83 |
| 3 | 54.65 | 37.2 QP | 40.00 | -2.80 | 1.20V | 204 | 29.10 | 6.02 | 2.08 | 0.00 | -8.11 |
| 4 | 108.35 | 34.1 QP | 43.50 | -9.40 | 1.20V | 204 | 21.00 | 10.80 | 2.31 | 0.00 | -13.12 |
| 5 | 135.56 | 29.1 QP | 43.50 | -14.40 | 1.00V | 28 | 15.70 | 10.84 | 2.55 | 0.00 | -13.39 |
| 6 | 189.74 | 27.0 QP | 43.50 | -16.50 | 1.00V | 97 | 15.80 | 8.51 | 2.73 | 0.00 | -11.25 |
| 7 | 216.45 | 25.8 QP | 46.00 | -20.20 | 1.00V | 149 | 13.50 | 9.43 | 2.82 | 0.00 | -12.25 |
| 8 | 540.65 | 30.2 QP | 46.00 | -15.80 | 1.00V | 154 | 9.50 | 17.07 | 3.67 | 0.00 | -20.74 |

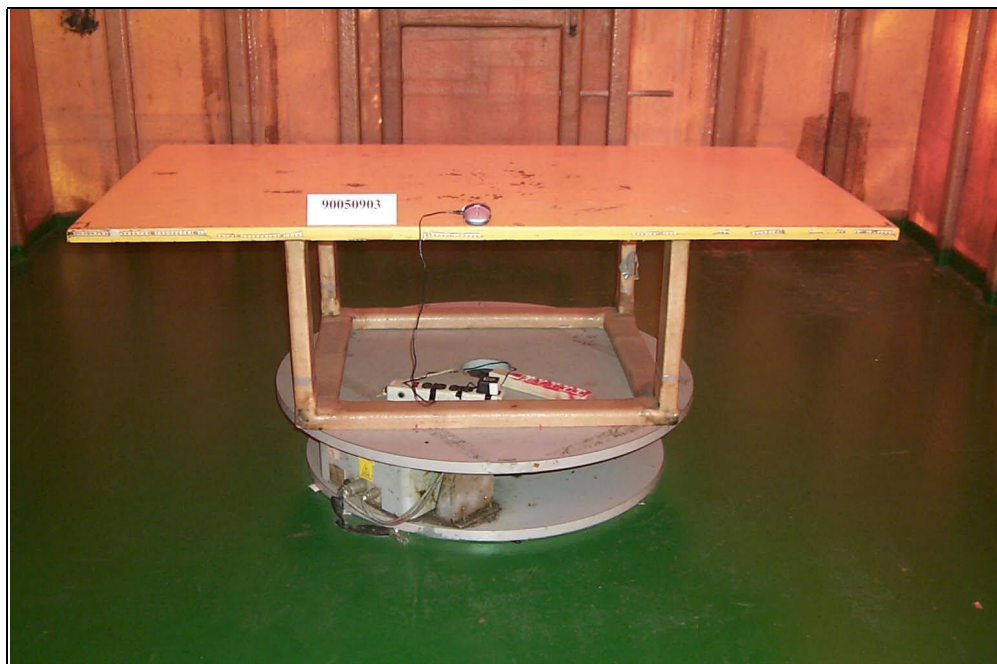
NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss (Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value
5. " * " : Fundamental frequency

5 PHOTOGRAPHS OF THE TEST CONFIGURATION CONDUATED EMISSION TEST



RADIATED EMISSION TEST





6 INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

| | |
|--------------------|-----------------|
| USA | FCC, NVLAP |
| Germany | TUV Rheinland |
| Japan | VCCI |
| New Zealand | MoC |
| Norway | NEMKO |
| R.O.C. | BSMI, DGT, CNLA |

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:

Lin Kou EMC Lab:
Tel: 886-2-26052180
Fax: 886-2-26052943

Hsin Chu EMC Lab:
Tel: 886-35-935343
Fax: 886-35-935342

Lin Kou Safety Lab:
Tel: 886-2-26093195
Fax: 886-2-26093184

Lin Kou RF&Telecom Lab:
Tel: 886-3-3270910
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Email: service@mail.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.