

FCC PART 15.249 TEST REPORT

For

Wintop Electronics Co.,Limited

Unit 04 7/F, Bright Way Tower 33, Mong Kok RD KL, HONGKONG

FCC ID: 2AB75-WM633MP

| Report Type: Original Report | | Product Type: 2.4GHz Wireless Optical Mouse |
|------------------------------|-------------------------|---|
| Test Engineer: | Dean Liu | Dean Lau |
| Report Number: | RDG15111100. | 5-00 |
| Report Date: | 2015-11-24 | |
| Reviewed By: | Sula Huang RF Leader | Sula Hugof |
| Test Laboratory: | No.69 Pulongci | 36858891 |

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan). This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Wintop Electronics Co.,Limited*'s product, model number: *WM-633(FCC ID: 2AB75-WM633MP)* (the "EUT") in this report was a 2.4*GHz Wireless Optical Mouse*, was measured approximately: 9.89 cm (L) x 6.12 cm (W) x 3.32 cm(H), rated input voltage: DC3.0V from 2*1.5V AAA battery.

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Note: the series product, model WM-633, MP2125BLU, MP2225RED, MP2325BLK, MP2425PUR are electrically identical, the differences between them are model name and color, we selected WM-633 for fully testing, the details was explained in the attached declaration letter.

* All measurement and test data in this report was gathered from production sample serial number: 151111005 (Assigned by BACL.Dongguan). The EUT was received on 2015-11-12.

Objective

This type approval report is prepared on behalf of *Wintop Electronics Co., Limited.* in accordance with Part 2-Subpart J, and Part 15-Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209 and 15.249 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 06, 2015.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in engineering mode with maximum power output and switched the channels by key.

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Channels list as follows:

| Channel Number Frequency (MHz) | | Channel Number | Frequency (MHz) | |
|--------------------------------|------|----------------|--------------------|--|
| 1 | 2405 | 5 | 2440 | |
| 2 | 2413 | 6 | 2450 | |
| 3 | 2422 | 7 | 2460 | |
| 4 | 2430 | 8 | 2470 | |

Channel 1, 4, 8 were selected to test.

EUT Exercise Software

No software was used in test.

Equipment Modifications

No modifications were made to the EUT.

Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number | |
|--------------|-------------|-------|---------------|--|
| / | / | / | / | |

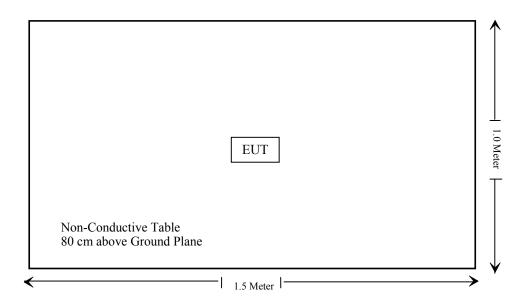
External I/O Cable

| Cable Description | Shielding Type | Ferrite Core | Length (m) | From | То | |
|-------------------|-------------------|--------------|------------|------|----|--|
| / | / | / | / | / | / | |

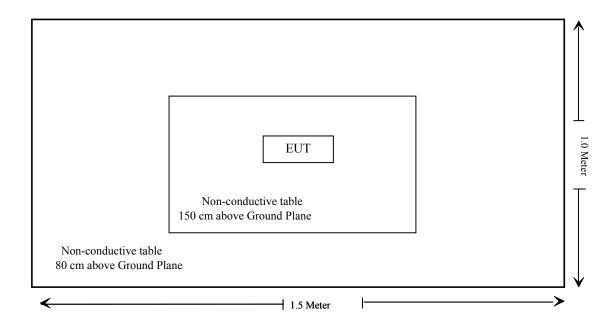
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Block Diagram of Test Setup

Below 1GHz:



Above 1GHz:



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SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Result |
|--------------------------|---|----------------|
| §15.203 | Antenna Requirement | Compliance |
| §15.207(a) | Conduction Emissions | Not Applicable |
| 15.205, §15.209, §15.249 | Radiated Emissions | Compliance |
| §15.215 (c) | 20 dB Bandwidth | Compliance |
| §15.249(d) | Outside of Band Emission (50dB attenuation) | Compliance |

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Not Applicable: The EUT is battery operated equipment.

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FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used.

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Antenna Connector Construction

The EUT has one integral antenna arrangement, which was permanently attached and the antenna gain is -1.0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

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FCC§15.205, §15.209&§15.249- RADIATED EMISSIONS

Applicable Standard

As per FCC§15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| Fundamental frequency | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) |
|--------------------------|---|---|
| 902–928 MHz | 50 | 500 |
| 2400–2483.5 MHz | 50 | 500 |
| 5725–5875 MHz | 50 | 500 |
| 24.0–24.25 GHz | 250 | 2500 |

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As per FCC§15.249 (c), Field strength limits are specified at a distance of 3 meters.

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cispr} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. If U_{lab} is greater than U_{cispr} of Table 1, then:
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} U_{cispr})$, exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level, increased by $(U_{\text{lab}} U_{\text{cispr}})$, exceeds the disturbance limit.

Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:

30M~200MHz: 5.0 dB 200M~1GHz: 6.2 dB 1G~6GHz: 4.45 dB 6G~18GHz: 5.23 dB

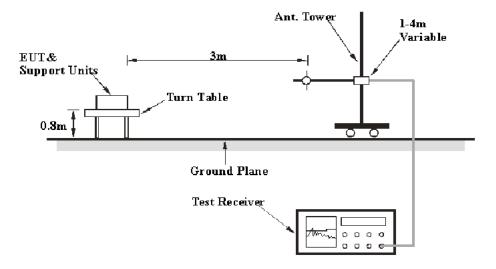
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Table 1 – Values of U_{cispr}

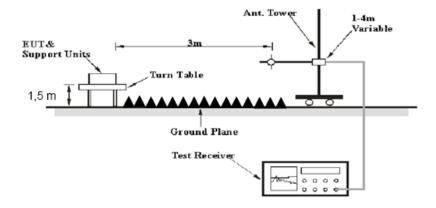
| Measurement | | | | | |
|--|--------|--|--|--|--|
| Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz) | 6.3 dB | | | | |
| Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz) | 5.2 dB | | | | |
| Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz) | 5.5 dB | | | | |

EUT Setup

Below 1 GHz:



Above 1 GHz:



The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013 The specification used was the FCC 15.209/15.205 and FCC 15.249 limits.

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Test Equipment Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

| Frequency Range | RBW Video B/W | | IF B/W | Detector |
|-------------------|---------------|---------|---------|----------|
| 30 MHz – 1000 MHz | 120 kHz | 300 kHz | 120 kHz | QP |
| Above 1 CHz | 1MHz | 3 MHz | / | PK |
| Above 1 GHz | 1MHz | 10 Hz | / | Ave. |

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Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detection mode from 30 MHz to 1GHz, peak and average detection mode above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit –Corrected Amplitude

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Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------------------|-------------------|---------------------|--------------------|---------------------|-------------------------|
| R&S | EMI Test Receiver | ESCI | 100224 | 2015-08-03 | 2016-08-02 |
| Sunol Sciences | Antenna | ЈВ3 | A060611-3 | 2014-11-06 | 2017-11-05 |
| HP | Amplifier | 8447E | 2434A02181 | 2015-09-01 | 2016-09-01 |
| Agilent | Spectrum Analyzer | E4440A | SG43360054 | 2014-12-04 | 2015-12-04 |
| ETS-Lindgren | Horn Antenna | 3115 | 9808-5557 | 2015-09-06 | 2018-09-06 |
| Mini-Circuit | Amplifier | ZVA-213-S+ | 054201245 | 2015-02-19 | 2016-02-19 |
| R&S | Spectrum Analyzer | FSP 38 | 100478 | 2015-05-09 | 2016-05-09 |
| Ducommun Technolagies | Horn Antenna | ARH-4223-02 | 1007726-01 1304 | 2014-06-16 | 2017-06-15 |
| Quinstar | Amplifier | QLW- 18405536-JO | 15964001001 | 2015-09-06 | 2016-09-06 |
| N/A | Coaxial Cable | 14m | N/A | 2015-05-06 | 2016-05-06 |
| N/A | Coaxial Cable | 8m | N/A | 2015-05-06 | 2016-05-06 |

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Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209 &15.205 & 15.249, with the worst margin reading of:

0.68 dB at 4940 MHz in the Horizontal polarization

Test Data

Environmental Conditions

| Temperature: | 27.3 °C |
|--------------------|-----------|
| Relative Humidity: | 53% |
| ATM Pressure: | 100.3 kPa |

The testing was performed by Dean Liu on 2015-11-24.

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^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Mode: Transmitting

Note: The field strength (average) of fundamental and harmonic was based on calculated duty cycle correction factor Instead of measurement.

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| - | Re | eceiver | Rx A | Antenna | Cable | Amplifier | Corrected | T | |
|--------------------|-----------------------|----------|----------------|------------------|--------------|--------------|--------------------|-------------------|----------------|
| Frequency (MHz) | Reading (dBµV) | Detector | Polar (H/V) | Factor (dB(1/m)) | loss (dB) | Gain (dB) | Amplitude (dBμV/m) | Limit (dBµV/m) | Margin (dB) |
| | Low Channel: 2405 MHz | | | | | | | | |
| 2405 | 66.86 | PK | Н | 25.65 | 3.66 | 0.00 | 96.17 | 114.00 | 17.83 |
| 2405 | 61.5 | PK | V | 25.65 | 3.66 | 0.00 | 90.81 | 114.00 | 23.19 |
| 2400 | 33.28 | PK | Н | 25.64 | 3.65 | 0.00 | 62.57 | 74.00 | 11.43 |
| 2400 | 19.35 | AV | Н | 25.64 | 3.65 | 0.00 | 48.64 | 54.00 | 5.36 |
| 2388.5 | 39.28 | PK | Н | 25.61 | 3.63 | 0.00 | 62.52 | 74.00 | 11.48 |
| 2388.5 | 25.37 | AV | Н | 25.61 | 3.63 | 0.00 | 48.61 | 54.00 | 5.39 |
| 4810 | 62.54 | PK | Н | 30.61 | 5.05 | 27.41 | 70.79 | 74.00 | 3.21* |
| 7215 | 52.19 | PK | Н | 34.12 | 6.62 | 25.91 | 67.02 | 74.00 | 6.98 |
| 9620 | 48.42 | PK | Н | 35.99 | 8.54 | 27.53 | 65.42 | 74.00 | 8.58 |
| 267.6 | 33.21 | QP | Н | 13.56 | 2.02 | 21.50 | 27.29 | 46.00 | 18.71 |
| | | | | ldle Channel | | | | | |
| 2430 | 66.96 | PK | Н | 25.72 | 3.73 | 0.00 | 96.41 | 114.00 | 17.59 |
| 2430 | 61.89 | PK | V | 25.72 | 3.73 | 0.00 | 91.34 | 114.00 | 22.66 |
| 4860 | 63.35 | PK | Н | 30.74 | 5.05 | 27.42 | 71.72 | 74.00 | 2.28* |
| 7290 | 53.83 | PK | Н | 34.30 | 6.71 | 25.89 | 68.95 | 74.00 | 5.05* |
| 9720 | 48.67 | PK | Н | 36.23 | 8.59 | 27.30 | 66.19 | 74.00 | 7.81 |
| 1969 | 41.68 | PK | Н | 24.54 | 3.03 | 27.49 | 41.76 | 74.00 | 32.24 |
| 1969 | 28.63 | AV | Н | 24.54 | 3.03 | 27.49 | 28.71 | 54.00 | 25.29 |
| 2734 | 36.01 | PK | Н | 26.51 | 4.40 | 27.51 | 39.41 | 74.00 | 34.59 |
| 2734 | 22.76 | AV | Н | 26.51 | 4.40 | 27.51 | 26.16 | 54.00 | 27.84 |
| 267.6 | 33.74 | QP | Н | 13.56 | 2.02 | 21.50 | 27.82 | 46.00 | 18.18 |
| | 1 | 1 | | gh Channel: | | | | r | |
| 2470 | 65.55 | PK | Н | 25.82 | 3.72 | 0.00 | 95.09 | 114.00 | 18.91 |
| 2470 | 60.23 | PK | V | 25.82 | 3.72 | 0.00 | 89.77 | 114.00 | 24.23 |
| 2483.5 | 32.16 | PK | Н | 25.86 | 3.67 | 0.00 | 61.69 | 74.00 | 12.31 |
| 2483.5 | 18.63 | AV | Н | 25.86 | 3.67 | 0.00 | 48.16 | 54.00 | 5.84 |
| 2486 | 35.34 | PK | Н | 25.86 | 3.66 | 0.00 | 61.68 | 74.00 | 12.32 |
| 2486 | 21.47 | AV | Н | 25.86 | 3.66 | 0.00 | 47.07 | 54.00 | 6.93 |
| 4940 | 65.25 | PK | H | 30.14 | 5.36 | 27.43 | 73.32 | 74.00 | 0.68* |
| 7410 | 53.41 | PK | H | 34.58 | 6.85 | 25.89 | 68.95 | 74.00 | 5.05* |
| 9880 | 48.86 | PK | H | 36.61 | 8.68 | 26.82 | 67.33 | 74.00 | 6.67 |
| 3797 | 38.02 | PK | H | 29.45 | 4.65 | 27.38 | 44.74 | 74.00 | 29.26 |
| 3797 | 26.27 | AV | H | 29.45 | 4.65 | 27.38 | 32.99 | 54.00 | 21.01 |
| 267.6 | 33.68 | QP | Н | 13.56 | 2.02 | 21.50 | 27.76 | 46.00 | 18.24 |

 $[*]Within\ measurement\ uncertainty!$

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| Frequency (MHz) | Peak Measurement@3m (dBμV/m) | Polar (H/V) | Duty Cycle Corrected Factor (dBµV/m) | Average Amp (dBμV/m) | Limit (dBµV/m) | Margin (dB) | |
|---------------------|------------------------------------|----------------|---|----------------------------|----------------|-------------|--|
| | f | requency | y: 2405 MHz | | | | |
| 2405 | 96.17 | Н | -20.22 | 75.95 | 94.00 | 18.05 | |
| 2405 | 90.81 | V | -20.22 | 70.59 | 94.00 | 23.41 | |
| 4810 | 70.79 | Н | -20.22 | 50.57 | 54.00 | 3.43 | |
| 7215 | 67.02 | Н | -20.22 | 46.80 | 54.00 | 7.20 | |
| 9620 | 65.42 | Н | -20.22 | 45.20 | 54.00 | 8.80 | |
| frequency: 2430 MHz | | | | | | | |
| 2430 | 96.41 | Н | -20.22 | 76.19 | 94.00 | 17.81 | |
| 2430 | 91.34 | V | -20.22 | 71.12 | 94.00 | 22.88 | |
| 4860 | 71.72 | Н | -20.22 | 51.50 | 54.00 | 2.50 | |
| 7290 | 68.95 | Н | -20.22 | 48.73 | 54.00 | 5.27 | |
| 9720 | 66.19 | Н | -20.22 | 45.97 | 54.00 | 8.03 | |
| | frequency: 2470 MHz | | | | | | |
| 2470 | 95.09 | Н | -20.22 | 74.87 | 94.00 | 19.13 | |
| 2470 | 89.77 | V | -20.22 | 69.55 | 94.00 | 24.45 | |
| 4940 | 73.02 | Н | -20.22 | 52.80 | 54.00 | 1.20 | |
| 7410 | 68.95 | Н | -20.22 | 48.73 | 54.00 | 5.27 | |
| 9880 | 67.33 | Н | -20.22 | 47.11 | 54.00 | 6.89 | |

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Note:

Calculate Average Value based on duty cycle correction factor:

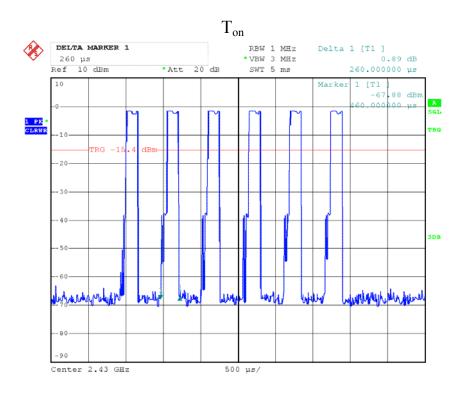
Duty cycle= $T_{on}/T_p = 260*6/1000/16$

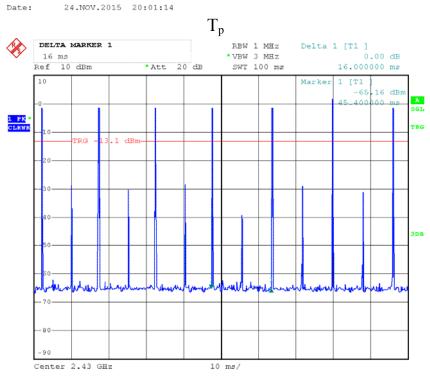
Duty cycle correction factor = $20*\log (duty cycle) = 20*\log (9.75\%) = -20.22dB$

Average= Peak+ Duty cycle correction factor

Please refer to following plot.

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Date: 24.NOV.2015 19:50:14

FCC §15.215(c) – 20 dB BANDWIDTH TESTING

Applicable Standard

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

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Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-------------------|-----------------|------------------|---------------------|-------------------------|
| R&S | Spectrum Analyzer | FSEM | 831259/019 | 2015-07-28 | 2016-07-27 |
| E-Microwave | DC Blocking | EMDCB- 00036 | 0E01201047 | 2015-05-06 | 2016-05-06 |
| N/A | Coaxial Cable | 0.1m | N/A | 2015-05-06 | 2016-05-06 |

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

| Temperature: | 27.3°C | |
|--------------------|----------|--|
| Relative Humidity: | 54 % | |
| ATM Pressure: | 99.6 kPa | |

^{*} The testing was performed by Dean Liu on 2015-11-22.

Test Result: Compliant.

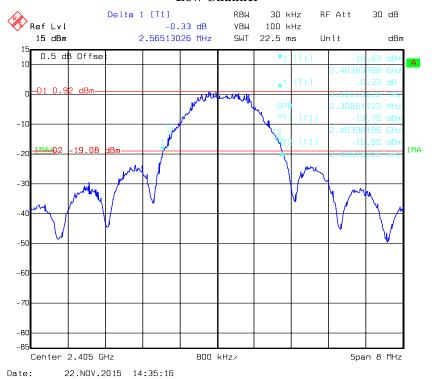
Please refer to following tables and plots

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| Channel | Frequency (MHz) | 20 dB Bandwidth (MHz) |
|---------|--------------------|--------------------------|
| Low | 2405 | 2.565 |
| Middle | 2430 | 2.581 |
| High | 2470 | 2.565 |

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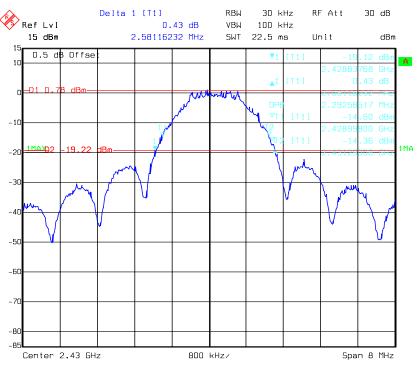
Low Channel



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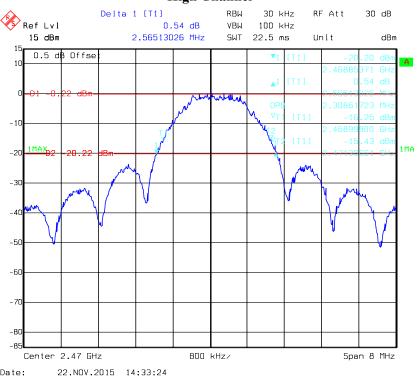
Middle Channel

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Date: 22.NOV.2015 14:31:46

High Channel



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FCC§15.249(d) - OUT OF BAND EMISSION (50 dB ATTENUATION)

Applicable Standard

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation

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Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-------------------|-------------|------------------|---------------------|-------------------------|
| R&S | Spectrum Analyzer | FSEM | 831259/019 | 2015-07-28 | 2016-07-27 |
| E-Microwave | DC Blocking | EMDCB-00036 | 0E01201047 | 2015-05-06 | 2016-05-06 |
| N/A | Coaxial Cable | 0.1m | N/A | 2015-05-06 | 2016-05-06 |

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

| Temperature: | 27.3°C | |
|--------------------|----------|--|
| Relative Humidity: | 54 % | |
| ATM Pressure: | 99.6 kPa | |

^{*} The testing was performed by Dean Liu on 2015-11-24.

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Test Result: Compliant.

Please refer to the following table and plots:

| Band Edge | Delta Peak to Band Emission (dBc) | Delta Limit (dBc) |
|-----------|-----------------------------------|----------------------|
| Left | 35.50 (note) | 50 |
| Right | 39.84 (note) | 50 |

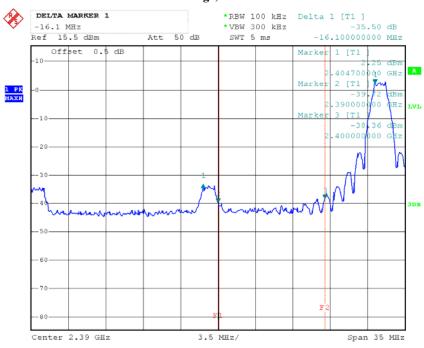
Report No.: RDG1511111005-00

Note: The band emission compliant with the general radiated emission limits in §15.209. Please refer to radiated emissions test section.

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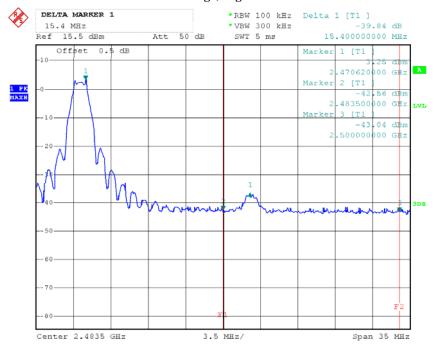
Band Edge, Left Side

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Date: 24.NOV.2015 17:27:44

Band Edge, Right Side



Date: 24.NOV.2015 18:01:58

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DECLARATION LETTER

Wintop Electronics Co., Limited

Add: Unit 04 7/F, Bright Way Tower 33, Mong Kok RD KL Hong Kong

Tel: 86-755-84255795 Fax: 86-755-84255950

DECLARATION OF SIMILARITY

Report No.: RDG1511111005-00

2015-11-17

To

Bay Area Compliance Laboratories Corp.(Dongguan)

No.69 Pulong Village, Puxinhu Industry Zone, Tangxia, Dongguan, China

Tel: +86 769 86858888 Fax: +86 769 86858892

http://www.baclcorp.com

Dear Sir or Madam:

We, Wintop Electronics Co., Limited, hereby declare that testing model product: 2.4GHz Wireless Optical Mouse , Model number: WM-633. Multiple Models: MP2125BLU, MP2225RED MP2325BLK, MP2425PUR.Multiple Model have the same structure, PCB, Material and function to the testing product's model, and only are different for model name and color.

Besides the differences in the above, we declare the products are identical. We guarantee all the information provided above is true, and notice that we'll bear all the consequences caused by any false information or concealing.

Please contact me should there be need for any additional clarification or information.

Best Regards,

Signature

Shirly Lee

Sales Mana

***** END OF REPORT *****

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