

Tel:(86) 755-26825180 Fax:(86) 755-86170310

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Test Report

Product Name: Bluetooth Stereo Speaker

FCC ID: VL5-PS938M02

MODEL NO. : PS938M, WS-4010

Applicant:

Plastoform Industries Ltd.

Units 6A-12, 15 Floor, Mita Centre, 552-556 Castle Peak Road, Kwai Chung, Hong Kong

Date Received: 09/05/2009

Date Tested: 09/04/2009

APPLICANT: Plastoform Industries Ltd.



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EMC Equipment List

| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. |
|-----------------------------|---------------|------------|------------------|--------------|----------|
| | | | | | Interval |
| EMI Test Receiver | ROHDE&SCHWARZ | ESCI | 100492 | Mar.10, 2009 | 1 Year |
| LISN | ROHDE&SCHWARZ | ENV216 | 100093 | Mar.10, 2009 | 1Year |
| EMI Test Receiver | ROHDE&SCHWARZ | ESCI | 101202 | Mar.10, 2009 | 1 Year |
| Spectrum Analyzer | ANRITSU | MS2651B | 6200238316 | Mar.10, 2009 | 1 Year |
| 50 Coaxial Switch | ANRITSU CORP | MP59B | 6200283933 | Mar.10, 2009 | 1 Year |
| Bilog Antenna | Sunol | JB3 | A121206 | Mar.10, 2009 | 1 Year |
| Horn Antenna | EMCO | 3115 | 640201028-0 6 | Mar.10, 2009 | 1 Year |
| 50 Coaxial Switch | ANRITSU CORP | MP59B | 6200283933 | Mar.10, 2009 | 1 Year |
| Cable | Resenberger | N/A | NO.1 | Mar.10, 2009 | 1 Year |
| Cable | SCHWARZBECK | N/A | NO.2 | Mar.10, 2009 | 1 Year |
| Cable | SCHWARZBECK | N/A | NO.3 | Mar.10, 2009 | 1 Year |
| Single Phase Power | Kikusui | LIN40MA-PC | LM002352 | Mar.10, 2009 | 1Year |
| Line Filter | | R-L | | | |
| AC Power Source | Kikusui | AC40MA | LM003232 | Mar.10, 2009 | 1Year |
| Test analyzer | Kikusui | KHA1000 | LM003720 | Mar.10, 2009 | 1Year |
| ESD Tester | Kikusui | KES4021 | LM003537 | Mar.10, 2009 | 1 Year |
| Signal Generator | IFR | 2032 | 203002/100 | Mar.10, 2009 | 1 Year |
| Amplifier | A&R | 150W1000 | 301584 | NCR | NCR |
| Dual Directional Coupler | A&R | DC6080 | 301508 | Mar.10, 2009 | 1 Year |
| Power Head | A&R | PH2000 | 301193 | Mar.10, 2009 | 1 Year |
| Power Meter | A&R | PM2002 | 302799 | Mar.10, 2009 | 1 Year |
| Field Monitor | A&R | FM5004 | 300329 | Mar.10, 2009 | 1 Year |
| Field Probe | A&R | FP5000 | 300221 | Mar.10, 2009 | 1 Year |
| EMCPRO System | EM Test | UCS-500-M4 | V064810202 6 | Mar.10, 2009 | 1 Year |
| EMCPRO System | EM Test | UCS-500-M4 | V064810202 6 | Mar.10, 2009 | 1 Year |

Remark:

Test Firm Name: Most Technology Service Co., Ltd.

Test Firm Address:

No. 5, 2nd Langshan Road, North District, Hi-tech Industrial Pa rk, Nanshan, Shenzhen, Guangdong, China

FCC Registered Test Site Number: 490827

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TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of MOST TECHNOLOGY SERVICE CO., LTD. The EUT was transmitting a test signal during the testing.

POWER LINE CONDUCTED INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a 50 U H LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25 with a humidity of 58%.

RADIATION INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3 MHz above 1 GHz. The ambient temperature of the EUT was 25 with a humidity of 58%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings were converted to average readings based on the duration of "ON" time.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard C63.4-2003 10.1.7 with the EUT 40 cm from the vertical ground wall.

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FCC ID: VL5-PS938M02

NAME OF TEST: POWER LINE CONDUCTED INTERFERENCE

RULES PART NUMBER: 15.207

REQUIREMENTS:

TEST PROCEDURE: ANSI STANDARD C63.4-2003

THE HIGHEST EMISSION READ FOR LINE 1 WAS 50.76dBuv @ 0.359MHz.

THE HIGHEST EMISSION READ FOR LINE 2 WAS 47.79dBuv @ 0.320MHz.

THE PLOTS ON THE NEXT PAGE REPRESENT THE EMISSIONS READ FOR POWER LINE CONDUCTED FOR THIS DEVICE.

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^{*} Decreases with the logarithm of the frequency.

Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park

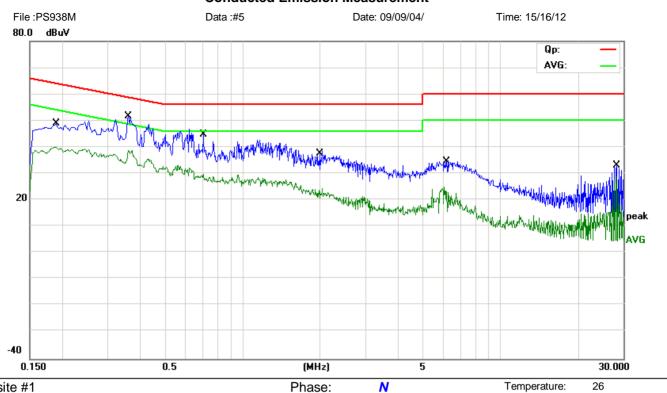
DC 5V Adaptor AC 120V/60Hz Humidity:

60 %

Guangdong, China

Tel: 0755-86170306 Fax: 0755-86170310

Conducted Emission Measurement



Site site #1

Limit: FCC Part15 C QP

EUT: Bluetooth Stereo Speaker

M/N: PS938M Mode: Running

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.1913 | 36.45 | 11.48 | 47.93 | 63.98 | -16.05 | QP | |
| 2 | | 0.1913 | 28.15 | 11.48 | 39.63 | 53.98 | -14.35 | AVG | |
| 3 | * | 0.3595 | 39.82 | 10.94 | 50.76 | 58.74 | -7.98 | QP | |
| 4 | | 0.3595 | 26.13 | 10.94 | 37.07 | 48.74 | -11.67 | AVG | |
| 5 | | 0.7100 | 31.98 | 10.00 | 41.98 | 56.00 | -14.02 | QP | |
| 6 | | 0.7100 | 19.49 | 10.00 | 29.49 | 46.00 | -16.51 | AVG | |
| 7 | | 1.9860 | 25.85 | 9.01 | 34.86 | 56.00 | -21.14 | QP | |
| 8 | | 1.9860 | 14.59 | 9.01 | 23.60 | 46.00 | -22.40 | AVG | |
| 9 | | 6.1140 | 20.89 | 11.33 | 32.22 | 60.00 | -27.78 | QP | |
| 10 | | 6.1140 | 11.03 | 11.33 | 22.36 | 50.00 | -27.64 | AVG | |
| 11 | | 28.3340 | 23.91 | 9.00 | 32.91 | 60.00 | -27.09 | QP | |
| 12 | | 28.3340 | 19.85 | 9.00 | 28.85 | 50.00 | -21.15 | AVG | |

Power:

*:Maximum data x:Over limit !:over margin

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Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park

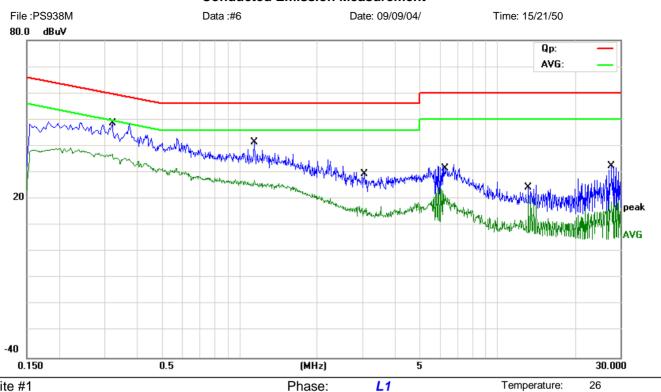
DC 5V Adaptor AC 120V/60Hz Humidity:

60 %

Guangdong, China

Tel: 0755-86170306 Fax: 0755-86170310

Conducted Emission Measurement



Site site #1

Limit: FCC Part15 C QP

EUT: Bluetooth Stereo Speaker

M/N: PS938M Mode: Running

Note:

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | * | 0.3200 | 36.59 | 11.20 | 47.79 | 59.71 | -11.92 | QP | |
| 2 | | 0.3200 | 25.56 | 11.20 | 36.76 | 49.71 | -12.95 | AVG | |
| 3 | | 1.1420 | 31.64 | 9.86 | 41.50 | 56.00 | -14.50 | QP | |
| 4 | | 1.1420 | 17.18 | 9.86 | 27.04 | 46.00 | -18.96 | AVG | |
| 5 | | 3.0180 | 14.34 | 10.02 | 24.36 | 56.00 | -31.64 | QP | |
| 6 | | 3.0180 | 3.51 | 10.02 | 13.53 | 46.00 | -32.47 | AVG | |
| 7 | | 6.1980 | 19.97 | 11.28 | 31.25 | 60.00 | -28.75 | QP | |
| 8 | | 6.1980 | 10.53 | 11.28 | 21.81 | 50.00 | -28.19 | AVG | |
| 9 | | 13.2060 | 15.46 | 9.00 | 24.46 | 60.00 | -35.54 | QP | |
| 10 | | 13.2060 | 11.04 | 9.00 | 20.04 | 50.00 | -29.96 | AVG | |
| 11 | | 27.7420 | 23.41 | 9.00 | 32.41 | 60.00 | -27.59 | QP | |
| 12 | | 27.7420 | 9.82 | 9.00 | 18.82 | 50.00 | -31.18 | AVG | |

Power:

*:Maximum data x:Over limit !:over margin

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APPLICANT: Plastoform Industries Ltd.

VL5-PS938M02 FCC ID:

NAME OF TEST: RADIATION INTERFERENCE

RULES PART NUMBER: 15.249, 15.209

REQUIREMENTS:

FIELD STRENGTH of FIELD STRENGTH S15.209

Fundamental: of Harmonics

902-928 MHz 30-88 MHz 40 dBuV/m @3m

2.4-2.4835 GHz 88-216 MHz 43.5 216-960 MHz 46

54 dBuV/m @3m ABOVE 960 MHz 54dBuV/m 94 dBuV/m @3m

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.

REMARK: Emissions attenuated more than 20 dB below the permissible value are not reported.

| Frequency | Antenna | Emission | Level (dBuV/r | n) | FCC 15 Subpart C |
|-----------|--------------|-----------|----------------|---------|------------------|
| (MHz) | Polarization | Avg | QP | Peak | Limit(dBuV/m) |
| | | | | | |
| | | Low fre | quency (2402.0 | | |
| 41.07 | Vertical | | | 32.09 | 40.0 |
| 2402.01 | Vertical | | | 83.59 | 94.0 |
| 4804.04 | Vertical | | | 33.21 | 54.0 |
| 7206.12 | Vertical | | | 31.80 | 54.0 |
| 9608.20 | Vertical | | | 31.79 | 54.0 |
| 39.40 | Horizontal | | | 30.05 | 40.0 |
| 2402.00 | Horizontal | | | 83.23 | 94.0 |
| 4804.01 | Horizontal | | | 32.17 | 54.0 |
| 7206.00 | Horizontal | | | 30.34 | 54.0 |
| 9608.04 | Horizontal | | | 30.12 | 54.0 |
| | | Middle fr | requency (2441 | .00MHz) | • |
| 41.10 | Vertical | | | 30.23 | 40.0 |
| 2441.02 | Vertical | | | 83.47 | 94.0 |
| 4882.10 | Vertical | | | 32.34 | 54.0 |
| 7323.03 | Vertical | | | 32.19 | 54.0 |
| 9764.30 | Vertical | | | 30.51 | 54.0 |
| 39.13 | Horizontal | | | 31.42 | 40.0 |
| 2441.00 | Horizontal | | | 83.31 | 94.0 |
| 4882.10 | Horizontal | | | 31.60 | 54.0 |
| 7323.20 | Horizontal | | | 30.23 | 54.0 |
| 9764.04 | Horizontal | | | 29.34 | 54.0 |

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NAME OF TEST: RADIATION INTERFERENCE

RULES PART NUMBER: 15.249, 15.209

REQUIREMENTS:

FIELD STRENGTH of FIELD STRENGTH S15.209

Fundamental: of Harmonics

902-928 MHz 30-88 MHz 40 dBuV/m @3m

2.4-2.4835 GHz 88-216 MHz 43.5 216-960 MHz 46

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.

REMARK: Emissions attenuated more than 20 dB below the permissible value are not reported.

Continued:

| Frequency | Antenna | Emission Leve | | FCC 15 Subpart C | |
|-----------|--------------|---------------|----------------|------------------|---------------|
| (MHz) | Polarization | Avg | QP | Peak | Limit(dBuV/m) |
| | | | | | , , |
| | | High frequen | cy (2480.00MHz |) | |
| 40.24 | Vertical | | | 31.19 | 40.0 |
| 2480.01 | Vertical | | | 83.35 | 94.0 |
| 4960.10 | Vertical | | | 32.41 | 54.0 |
| 7440.01 | Vertical | | | 31.29 | 54.0 |
| 9920.00 | Vertical | | | 30.21 | 54.0 |
| 39.17 | Horizontal | | | 31.25 | 40.0 |
| 2480.00 | Horizontal | | | 83.24 | 94.0 |
| 4960.10 | Horizontal | | | 31.36 | 54.0 |
| 7440.20 | Horizontal | | | 31.25 | 54.0 |
| 9920.04 | Horizontal | | | 30.42 | 54.0 |

Emissions attenuated more than 20 dB below the permissible value are not reported.

TEST PROCEDURE: ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector and an appropriate antenna. The resolution bandwidth of spectrum analyzer was 100 kHz below 1 GHz and 1 MHz above 1 GHz. An appropriate sweep speed was used. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported. The spectrum was searched to at least the tenth (10) harmonic of the fundamental.

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NAME OF TEST: Band Edge Compliance

RULES PART NUMBER: 15.249, 15.209

REQUIREMENTS: The field strength of any emissions appearing outside the band

edges and up to 10 kHz above and below the band edges shall be attenuated at least 50 dB below the level of the carrier or to

the general limits of 15.209.

Band edge emissions plots are included on the following pages

TEST RESULTS: The unit does meet the FCC requirements.

| Band Edge Compliance Test | | | | | | | | | |
|---------------------------|--------------|--------|--------|--------|--------|--------|--|--|--|
| Band Edge | Antenna | AV | QP | Peak | Limit | Limit | | | |
| Frequency | Polarization | dBuV/m | dBuV/m | dBuV/m | (Peak) | (AV) | | | |
| | | | | | dBuV/m | dBuV/m | | | |
| 2390.0 MHz | Н | 44.08 | | 60.03 | 74.00 | 54.00 | | | |
| 2390.0 MHz | V | 42.53 | | 55.09 | 74.00 | 54.00 | | | |
| 2483.5 MHz | Н | 44.20 | | 59.92 | 74.00 | 54.00 | | | |
| 2483.5 MHz | V | 41.16 | | 54.67 | 74.00 | 54.00 | | | |

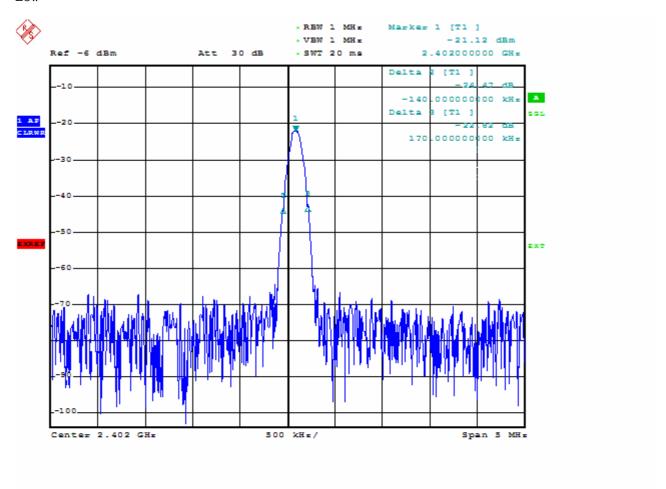
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Low



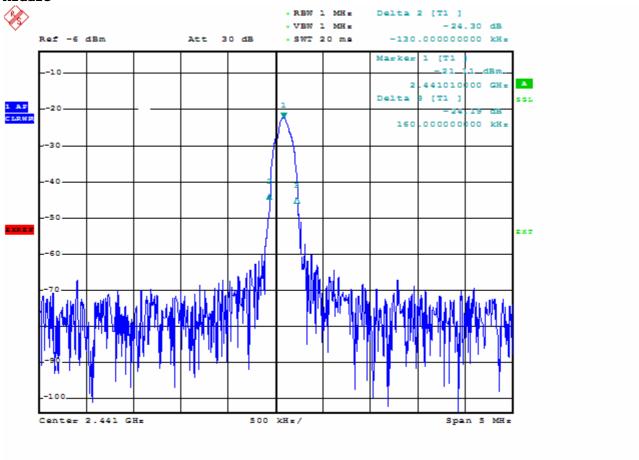
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Middle



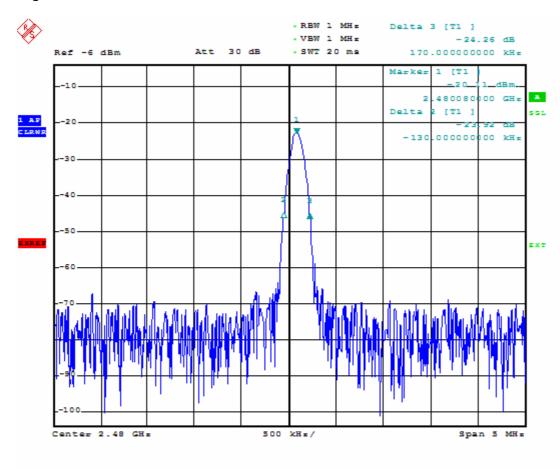
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High



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