



SGS-CSTC Standards Technical Services Ltd.

No.198 Kezhu Road, Science Town Economic& Technology
Development District Guangzhou, China 510663
Telephone: +86 (0) 20 8215 5555 Fax: +86 (0) 20 8207 5059
Email: sgs_internet_operations@sgs.com

FEDERAL COMMUNICATIONS COMMISSION
Registration number: 556682

Report No.: SZEMO061002276RFF
Page: 1 of 10
FCC ID: JHPSPORT-F2

TEST REPORT

Application No. : SZEMO061002276RF
Applicant: Perfect Toys International Co., Ltd
FCC ID: JHPSPORT-F2
Fundamental Frequency : 26.995 MHz 27.045 MHz 27.095 MHz 27.145MHz 、
27.195 MHz 27.255 MHz

Equipment Under Test (EUT):

EUT Name: SPORT-F1
Model No.: 30133

Standards: FCC PART 15, SUBPART C : 2006
Section 15.227

Date of Receipt: 25 October 2006

Date of Test: 27 October 2006

Date of Issue: 30 October 2006

| | |
|----------------------|---------------|
| Test Result : | PASS * |
|----------------------|---------------|

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Robinson Lo
Laboratory Manager

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf
This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.
This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.
The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.
All test results in this report can be traceable to National or International Standards.



2 Test Summary

| Test | Test Requirement | Stanadard Paragraph | Result |
|---|-------------------------|----------------------------|---------------|
| Radiated Emission (30MHz to 1000MHz) | FCC PART 15 :2006 | Section 15.227 | PASS |
| Occupied Bandwidth | FCC PART 15 :2006 | Section 15.215 | PASS |

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.



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4 General Information

4.1 Client Information

Applicant Name: Perfect Toys International Co., Ltd

Applicant Address: 2/F., BLOCK 3, WAH LAI IND. CENTRE, 10-14 KWEI TEI STREET, FO

4.2 Details of E.U.T.

EUT Name: SPORT-F1

Item No.: 30133

Power Supply: 12.0V DC (8 * 1.5V "AA" Size Batteries) for Tx.

Power Cord: N/A-

4.3 Description of Support Units

The EUT was tested as an independent unit: 27MHz radio transmitter.

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory, No.198 Kezhu Road, Science Town Economic & Technology Development District Guangzhou, China 510663

Tel: +86 20 8215 5555 Fax: +86 20 8207 5059

4.5 Other Information Requested by the Customer

None.



5 Test Results

5.1 Test Instruments

| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal.Date (dd-mm-yy) | Cal.Due date (dd-mm-yy) |
|------|--------------------------|-----------------|-----------|------------|------------------------|----------------------------|
| 1 | 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEL0017 | 28-04-2005 | 27-04-2007 |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESIB26 | 100249 | 22-09-2006 | 21-09-2007 |
| 3 | EMI Test software | AUDIX | E3 | SEL0050 | N/A | N/A |
| 4 | Coaxial cable | SGS | N/A | SEL0028 | 20-05-2006 | 19-05-2007 |
| 5 | Coaxial cable | SGS | N/A | SEL0027 | 20-05-2006 | 19-05-2007 |
| 6 | BiConiLog Antenna | ETS-LINDGREN | 3142C | 00042673 | 03-03-2006 | 02-03-2007 |
| 7 | EMI Test Receiver | Rohde & Schwarz | ESCI | 100119 | 03-03-2006 | 02-03-2007 |
| 8 | Loop Antenna | Emco | 6502 | 00042963 | 30-05-2006 | 29-05-2007 |

5.2 E.U.T. Operation

| | |
|------------------------|---|
| Input voltage: | 12.0V DC (8 * 1.5V "AA" Size Batteries) |
| Operating Environment: | |
| Temperature: | 26.0 °C |
| Humidity: | 51% RH |
| Atmospheric Pressure: | 1015mbar |
| EUT Operation: | Test the EUT in transmitting mode. |

5.3 Test Procedure & Measurement Data

5.3.1 Radiated Emissions

| | |
|------------------------------|--|
| Test Requirement: | FCC Part15 C Section 15.227 |
| Test Method: | ANSI C63.4 |
| Test Date: | 27 October 2006 |
| Measurement Distance: | 3m (Semi-Anechoic Chamber) |
| Requirements: | Carrier frequency will not exceed 80dBuV/m AT 3m. Out of band emissions shall not exceed: 40.0 dBμV/m between 30MHz & 88MHz 43.5 dBμV/m between 88MHz & 216MHz 46.0 dBμV/m between 216MHz & 960MHz 54.0 dBμV/m above 960MHz |
| Detector: | Peak Scan (9kHz resolution bandwidth for 9kHz to 30MHz; 120kHz resolution bandwidth for 30MHz to 1000MHz) |

**27.145MHz Mode.**

Prescant all mode(26.995 MHz 27.045 MHz 27.095 MHz 27.145MHz 、 27.195 MHz 27.255 MHz), and selsted worst mode is 27.145MHz.

Test Procedure: For testing performed with the loop antenna, testing was performed in accordance to ANSI C63.4 section 8.2.1. The The center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specied distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.

Horizontal.

| Test Frequency (MHz) | Peak (dBmV/m) | | | Limits (dBmV/m) | Margin (dB) | | |
|-------------------------|---------------|------|------|--------------------|-------------|------|------|
| | X | Y | Z | | X | Y | Z |
| 27.145 | 73.6 | 71.2 | 74.3 | 100.0 | 26.4 | 28.8 | 25.7 |

| Test Frequency (MHz) | Average (dBmV/m) | | | Limits (dBmV/m) | Margin (dB) | | |
|-------------------------|------------------|------|------|--------------------|-------------|------|------|
| | X | Y | Z | | X | Y | Z |
| 27.145 | 68.7 | 66.9 | 69.0 | 80.0 | 11.3 | 13.1 | 11.0 |

Vertical.

| Test Frequency (MHz) | Peak (dBmV/m) | | | Limits (dBmV/m) | Margin (dB) | | |
|-------------------------|---------------|------|------|--------------------|-------------|------|------|
| | X | Y | Z | | X | Y | Z |
| 27.145 | 67.9 | 66.5 | 67.8 | 100.0 | 32.1 | 33.5 | 32.2 |

| Test Frequency (MHz) | Average (dBmV/m) | | | Limits (dBmV/m) | Margin (dB) | | |
|-------------------------|------------------|------|------|--------------------|-------------|------|------|
| | X | Y | Z | | X | Y | Z |
| 27.145 | 62.3 | 61.8 | 62.7 | 80.0 | 17.7 | 18.2 | 17.3 |

Y: EUT as per photograph in section 5.3.3 of this report.

X: As Y, but rotate EUT by 90° clockwise.

Z: As X, but rotate EUT by 90° vertically.

Other emissions

Test Procedure: The procedure used was ANSI Standard C63.4-2003. The receive was scanned from 30MHz to 1000MHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. The worst case emissions were reported.

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bilog antenna with 2 orthogonal polarities



Test the EUT in transmitting mode.

Horizontal.

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamplifier Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |
|-----------------|-----------------|-----------------------|--------------------------|-------------------|----------------|---------------------|-----------------|
| 60.100 | 0.8 | 7.19 | 28.05 | 34.75 | 14.69 | 40.0 | -25.31 |
| 75.700 | 0.98 | 7.37 | 28.00 | 34.55 | 14.90 | 40.0 | -25.10 |
| 120.550 | 1.26 | 7.89 | 27.68 | 35.99 | 17.46 | 43.5 | -26.04 |
| 202.450 | 1.42 | 10.32 | 27.14 | 36.86 | 21.46 | 43.5 | -22.04 |
| 338.950 | 2.03 | 15.16 | 27.01 | 34.44 | 24.62 | 46.0 | -21.38 |

Vertical.

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamplifier Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |
|-----------------|-----------------|-----------------------|--------------------------|-------------------|----------------|---------------------|-----------------|
| 43.525 | 0.68 | 9.98 | 28.1 | 46.69 | 29.25 | 40.0 | -10.75 |
| 59.125 | 0.80 | 7.27 | 28.06 | 42.77 | 22.78 | 40.0 | -17.22 |
| 115.675 | 1.24 | 8.20 | 27.72 | 42.36 | 24.08 | 43.5 | -19.42 |
| 187.825 | 1.38 | 10.06 | 27.22 | 38.78 | 23.00 | 43.5 | -20.50 |
| 338.95 | 2.03 | 15.16 | 27.01 | 35.91 | 26.09 | 46.0 | -19.91 |

Remark:

According to 15.35 (b) When average radiated emission measurements are specified in the regulations, including emission measurements below 1000 MHz, there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector

function, corresponding to 20 dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules, e.g., see Section 15.255.

Test Results: The unit does meet the FCC Part 15 C Section 15.227 requirements.



5.3.2 Occupied Bandwidth

Test Requirement: FCC Part 15 C Section 15.215 (C) and Section 15.227.

Test Method: ANSI C63.4

Operation within the band 26.960 – 27.280 MHz .

Test Date: 27 October 2006

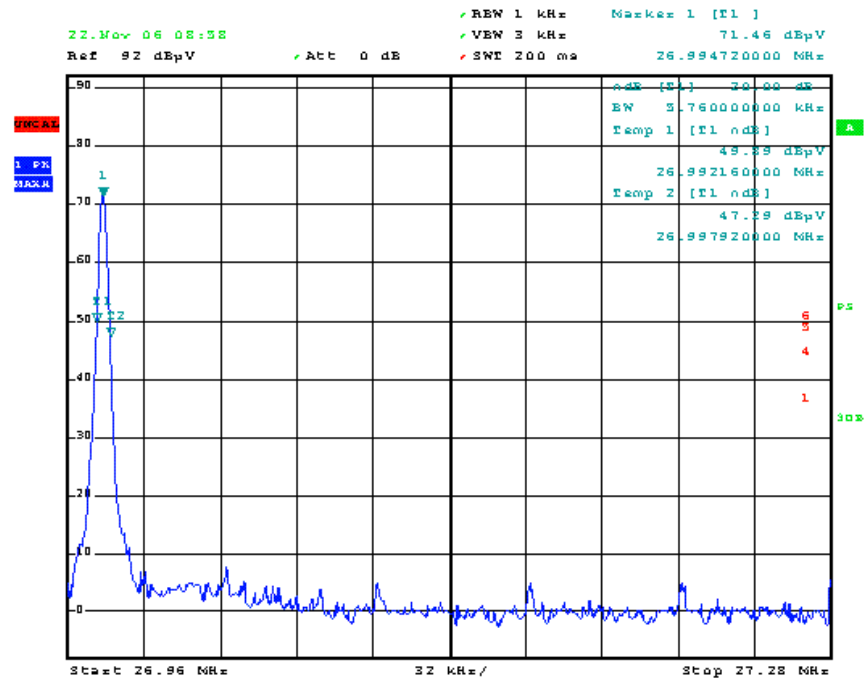
26.960–27.280MHz Mode.

Requirements: 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 is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the 20 dB bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Method of measurement: The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector. The vertical Scale is set to 10dB per division.



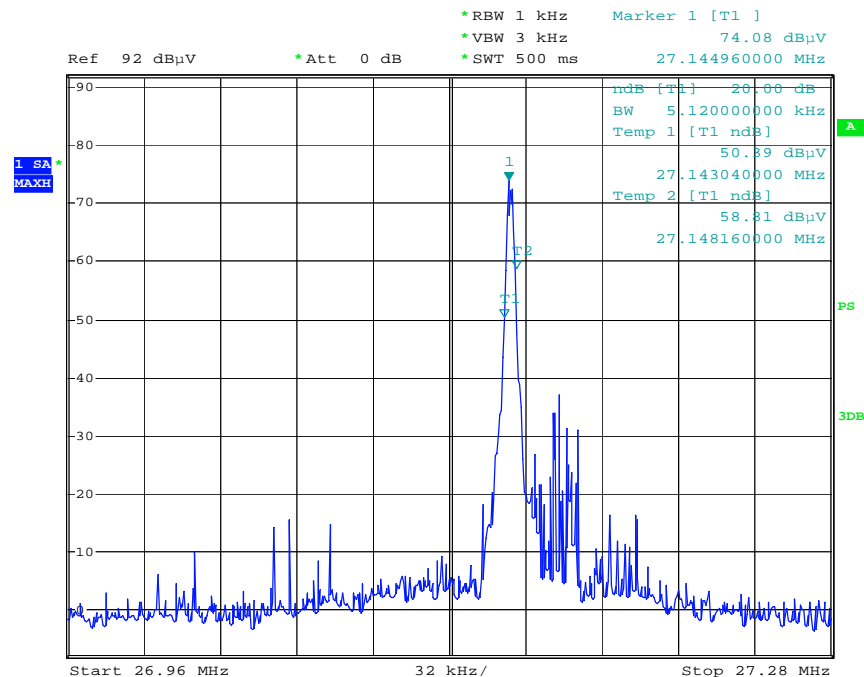
Bottom(26.995MHz)



N

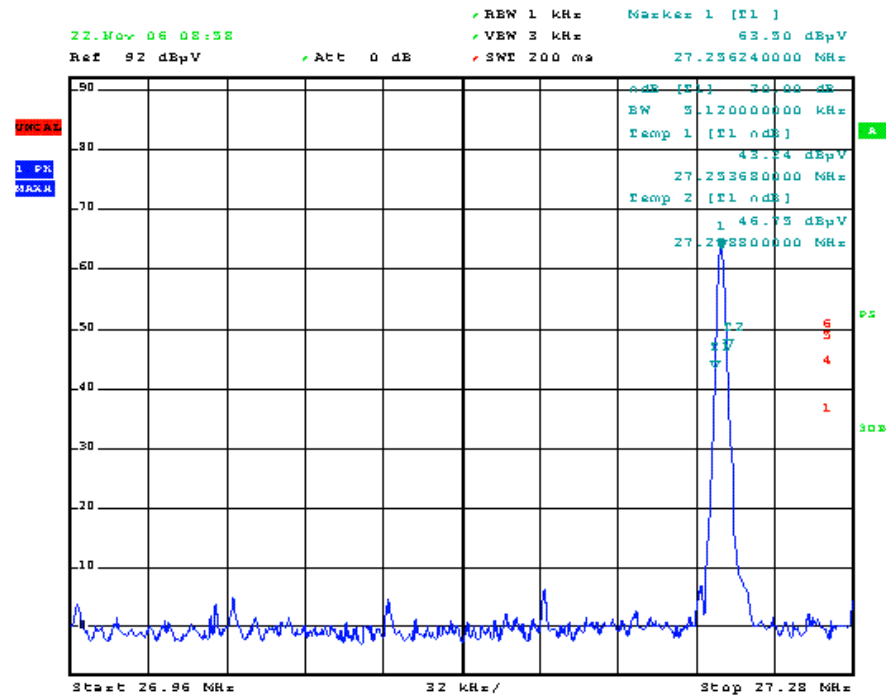
Date: 22.NOV.2006 08:58:44

Middle(27.145MHz)





Top(27.255MHz)



N

Date: 22.NOV.2006 08:58:10

The results: The unit does meet the FCC Part 15 C Section 15.215 requirements