SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

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TEST REPORT

Application No.: SHEMO10090122102

Applicant: Hanson Technology Limited

FCC ID: YY2-100R

Equipment Under Test (EUT):

NOTE: The following sample(s) submitted was/were identified on behalf of the client as

EUT Name: Wireless touch remote

Model Name: FelTouch 100

Standards: FCC CFR 47 Part 15 Subpart B

Date of Receipt: Nov. 22, 2010

Date of Test: Nov. 22, 2010

Date of Issue: Dec. 23, 2010

Test Result :	**PASS***

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

Authorized Signature:

Tino Pan
E&E Section Manager
SGS-CSTC(Shanghai) Co., Ltd.

Test by: Saber dong

Saber Dong
E&E Project Engineer
SGS-CSTC(Shanghai)Co.,Ltd

2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Radiated Emission	CFR 47 Part 15: 2009	ANSI C63.4: 2009	Class B	PASS
Conducted Emission 150KHz-30MHz	CFR 47 Part 15: 2009	ANSI C63.4: 2009	Class B	PASS
Remark: The product (Wireless touch remote) contains a transmitter (FCC ID:YY2-100T) and a receiver (FCC ID:YY2-100R). This report (Report No.: SHEMO10090122102) is for receiver. For the transmitter, please refer to the report SHEMO10090122101.				

3 Contents

4 General Information

4.1 Client Information

Applicant:	Hanson Technology Limited
Address of Applicant:	Room 22B, No. 20, Lane 380, Tian Yao Qiao Road, Shangha, 200030, China
Manufacturer:	Hanson Technology Limited
Address of Manufacturer:	Room 22B, No. 20, Lane 380, Tian Yao Qiao Road, Shangha, 200030, China

4.2 General Description of E.U.T.

EUT Name:	Wireless touch remote
Model No.:	FelTouch 100
Serial No.:	Not supplied by the client

4.3 Details of E.U.T.

Power Supply:	PC USB port supply
Power Cord:	N/A

4.4 Description of Support Units

Name / Function	Model No.	Remark
Notebook	2876-A65/Tinkpad X100	N/A
AC Adapter of Notebook	Lenovo 65W 20V	N/A
Display	LZ850A60684	Display
Keyboard	KU-0225	Keyboard
Mouse	M028UOL	Mouse
Transmitter	FelTouch 100	Remote controller

4.5 Standards Applicable for Testing

The standards used were CFR 47 Part 2: 2008, CFR 47 Part 15: 2009, ANSI C63.4: 2009.

Table 1 : Tests Carried Out Under CFR 47 Part 15: 2009 :

Standard		Status
FCC Part 15 Subpart B: 2009	Radiated Emission	√
FCC Part 15 Subpart B: 2009	Conducted Emission	√

× Indicates that the test is not applicable
√ Indicates that the test is applicable

4.6 Abnormalities from Standard Conditions

None.

4.7 Test Location

All tests were performed at:
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
No.588 West Jindu Road, Songjiang District, Shanghai, China. 201612.
Tel: +86 21 6191 5666 Fax: +86 21 6191 5655

4.8 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2011-07-29.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2012-03-17.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2011-09-29.

- **VCCI (Member No.: 3061)**

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3172 and C-3514 respectively. Date of Registration: 2009-11-30. Date of Expiry: 2012-03-17.

4.9 Measurement Uncertainty

According to CISPR 16-4-2.

Test Item	Frequency Range	Measurement Uncertainty
Conducted Emission	150KHz – 30MHz	3.5dB
Radiated Emission	30MHz – 1000MHz	4.0dB

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

5 Equipment Used during Test

Radiated Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	EMI test receiver	Rohde & Schwarz	ESU40	100109	2010-06-04	2011-06-03
2	Antenna	SCHWARZBECK	VULB9168	9168-313	2010-06-04	2011-06-03
3	CONTROLLER	INNCO	CO200	474	/	/
4	Antenna	SCHWARZBECK	BBHA9120D	9120D-679	2010-06-04	2011-06-03
5	Antenna	SCHWARZBECK		9170-373	2010-06-04	2011-06-03

Conducted Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2010-06-04	2011-06-03
2	Line impedance stabilization network	SCHWARZBECK	NSLK8127	8127-490	2010-05-08	2011-05-07
3	Line impedance stabilization network	ETS	3816/2	00034161	2010-08-02	2011-08-01

General Equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal.Due date
1	Atmosphere pressure meter	Shanghai ZhongXuan Electronic Co;Ltd	BY-2003P	/	2010-10-15	2011-10-14
2	Digital Multimeter	FLUKE	17B	10560713	2010-10-16	2011-10-15
3	Thermo-Hygrometer	ZHICHEN	ZC1-2	01050033	2010-10-21	2011-10-20
4	Digital illuminance meter	TES electrical electronic Corp.	TES-1330A	050602219	2010-10-16	2011-10-15

6 Emission Test Results

6.1 Radiated Emissions, 30MHz to 1GHz

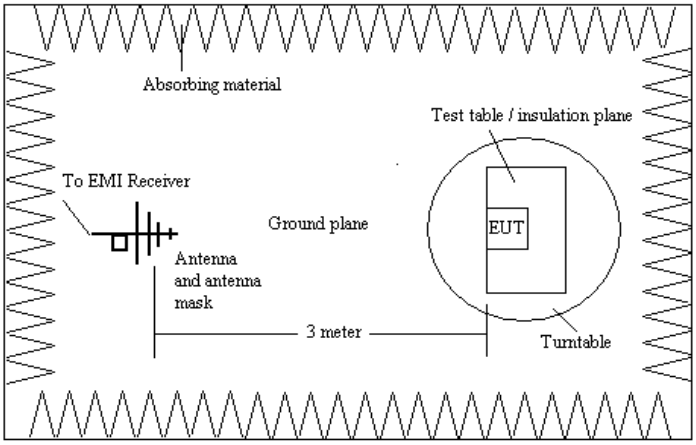
Test Requirement:	CFR 47 Part 15
Test Method:	ANSI C63.4
Test Date:	Nov. 26, 2010
Frequency Range:	30MHz to 1GHz
Measurement Distance:	3m
Class:	N/A
Detector:	Peak for pre-scan (120kHz resolution bandwidth)
Result:	**PASS**

Operating Environment:

Temperature: 24.0 °C Humidity: 56 % RH Atmospheric Pressure: 1014 mbar

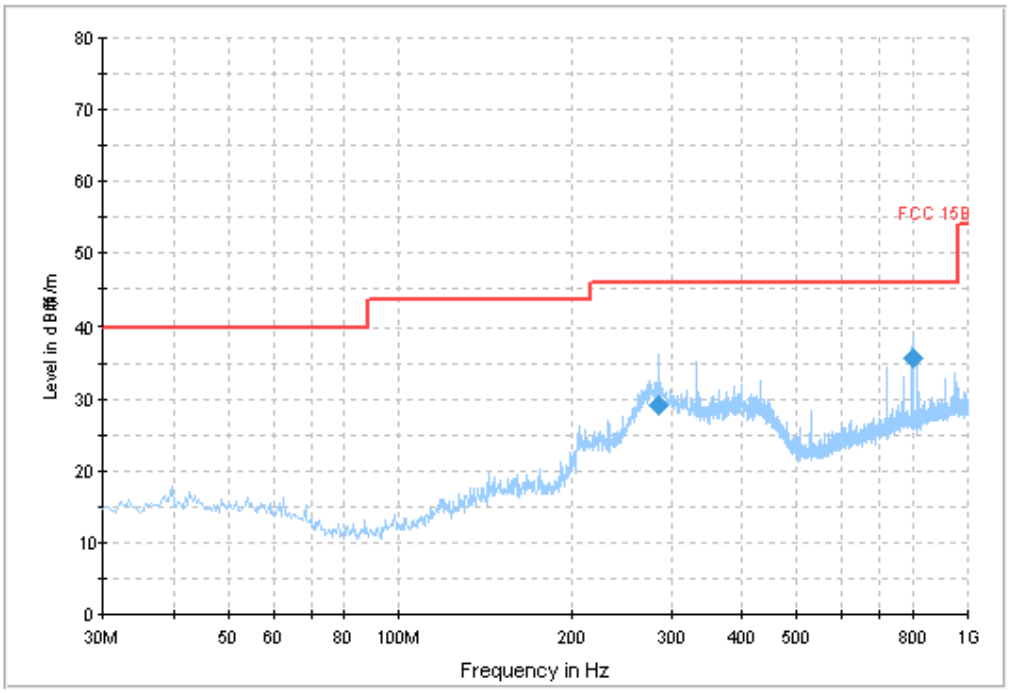
EUT Operation: The EUT was set to achieve maximum emission.

Test setup:



Test data:

Horizontal:



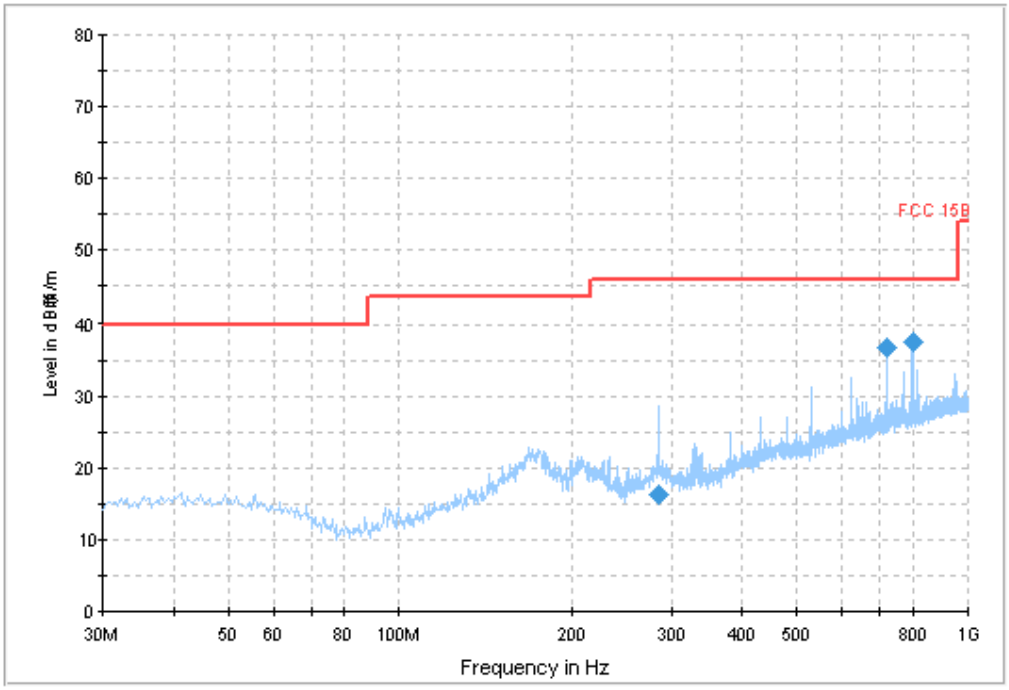
Final Result 1

Frequency (MHz)	QuasiPeak (dBµv/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)
285.429600	29.1	1000.000	120.000	127.0	V	217.0	-8.3	16.9
799.462720	35.6	1000.000	120.000	109.0	V	96.0	1.5	10.4

(continuation of the "Final Result 1" table from column 9 ...)

Frequency (MHz)	Limit (dBµv/m)	Comment
285.429600	46.0	
799.462720	46.0	

Vertical:



Final Result 1

Frequency (MHz)	QuasiPeak (dBµv/m)	Meas. Time (ms)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)
284.691360	16.1	1000.000	120.000	134.0	V	53.0	-8.3	29.9
719.999520	36.7	1000.000	120.000	100.0	V	190.0	0.8	9.3
799.144000	37.5	1000.000	120.000	100.0	V	188.0	1.5	8.5

(continuation of the "Final Result 1" table from column 9 ...)

Frequency (MHz)	Limit (dBµv/m)	Comment
284.691360	46.0	
719.999520	46.0	
799.144000	46.0	

6.2 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement:	CFR 47 Part 15
Test Method:	ANSI C63.4
Test Date:	Nov. 26, 2010
Frequency Range:	150KHz to 30MHz
Class / Severity:	N/A
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth for 0.15-30MHz)
	Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit

Operating Environment:

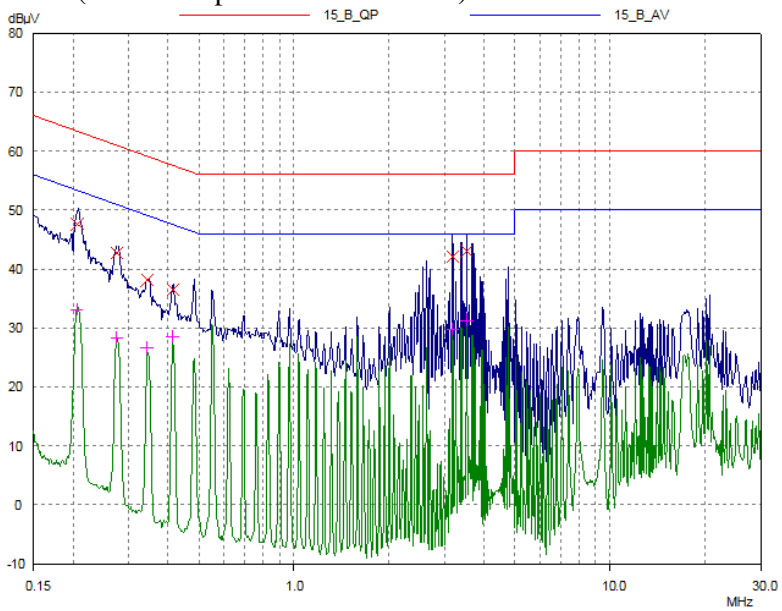
Temperature: 22.0 °C Humidity: 49 % RH Atmospheric Pressure: 1003 mbar

EUT Operation: Keep the EUT in normal operate mode.

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

L Line(for the adapter of the notebook):

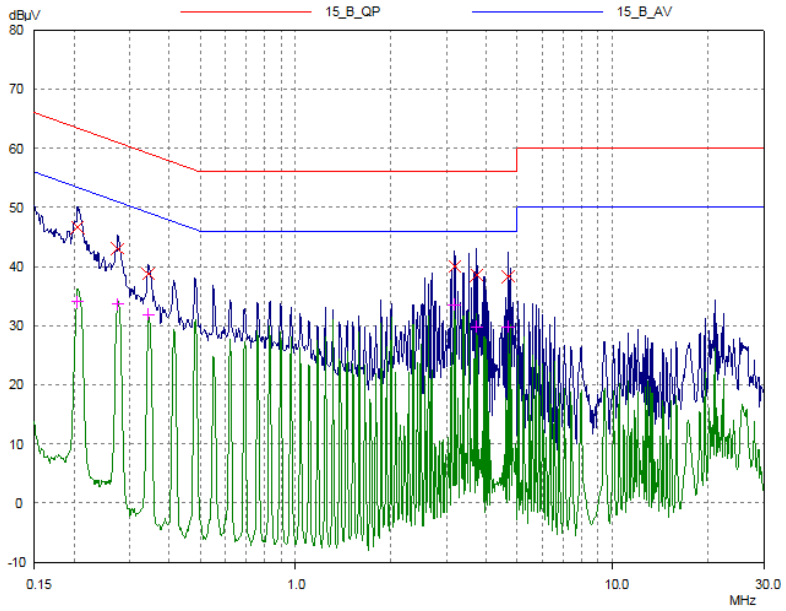


Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.2063	47.66	63.35	15.69
0.27484	42.69	60.97	18.28
0.34354	38.07	59.12	21.05
0.41264	36.50	57.59	21.09
3.17303	42.15	56.00	13.85
3.51934	43.11	56.00	12.89

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.2063	33.07	53.35	20.28
0.27484	28.37	50.97	22.60
0.34354	26.65	49.12	22.47
0.41264	28.55	47.59	19.04
3.17303	29.83	46.00	16.17
3.51934	31.31	46.00	14.69

N Line (for the adapter of the notebook):



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.20466	46.56	63.42	16.86
0.27484	43.04	60.97	17.93
0.34354	38.68	59.12	20.44
3.17303	40.00	56.00	16.00
3.72122	38.54	56.00	17.46
4.68857	38.32	56.00	17.68

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.20466	34.02	53.42	19.40
0.27484	33.60	50.97	17.37
0.34354	31.90	49.12	17.22
3.17303	33.51	46.00	12.49
3.72122	29.84	46.00	16.16
4.68857	29.77	46.00	16.23

End of Report.