

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

588 West Jindu Road, Songjiang District, Shanghai, China

Telephone: +86 (0) 21 6191 5666
Fax: +86 (0) 21 6191 5655
Tino.Pan@sgs.com

Report No.: SHEMO10090122101
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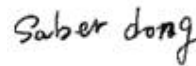
TEST REPORT

Application No. : SHEMO10090122101
Applicant: Hanson Technology Limited
FCC ID: YY2-100T
Fundamental Frequency : 2403MHz to 2480MHz
Equipment Under Test (EUT):
Name: Wireless touch remote
Model No.: FelTouch 100
Standards: FCC Part15: 2009 Subpart C, Section 15.249
Date of Receipt: Nov. 22, 2010
Date of Test: Nov. 22, 2010 to Nov. 30, 2010
Date of Issue: Dec. 23, 2010
Test Result : **PASS ***

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



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



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

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2 Test Summary

Test	Test Requirement	Standard Paragraph	Result
Antenna requirement	FCC PART 15: 2009	Section 15.203	PASS
Flid Strength of Fundamental	FCC PART 15: 2009	Section 15.249 (a)	PASS
Flid Strength of Unwanted Emissions	FCC PART 15: 2009	Section 15.209& Section 15.249	PASS
20Db Occupied Bandwidth	FCC PART 15: 2009	Section 15.215 (c)	PASS
Band Edge	FCC PART 15: 2009	Section 15.249 (a)/15.205(c)	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.: SHEMO10090122101) is for transmitter. For the receiver, please refer to the report SHEMO10090122102.

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4 General Information

4.1 Client Information

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

4.2 General Description of E.U.T.

Name: Wireless touch remote
Model No.: FelTouch 100
Operate frequency: 2403MHz-2480MHz
Modulation: GFSK
Number of Channels: 22 (For the details, see the following clause 6.1)
Channel Separation: 3MHz or 4MHz
Antenna Type: Integral
Antenna Gain: 2.0dBi
Power Supply: 4.5V(3 size "AA" battery)

4.3 Description of Support Units

The EUT has been tested independently.

4.4 Standards Applicable for Testing

The customer requested FCC tests for the EUT.

The standard used was FCC PART 15, SUBPART C Section 15.249

4.5 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

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4.6 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..

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5 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	Spectrum Analyzer	Rohde & Schwarz	FSP-30	100324	2010-4-21	2011-4-20
2	EMI test receiver	Rohde & Schwarz	ESU40	100109	2010-6-4	2011-6-3
3	Bilog Antenna	TESEQ	CBL6112D	23193	2010-5-14	2011-5-14
4	Horn Antenna	EMCO	3115	100285	2010-10-9	2011-10-8
5	ANTENNA	SCHWARZBECK	VULB9168	9168-313	2010-5-29	2011-5-28
6	VHAP PRECISION HALFWAVE DIPOLES	R&S	VHAP	1096+1097	2010-5-18	2011-5-17
7	Atmosphere pressure meter	Shanghai ZhongXuan Electronic Co;Ltd	BY—2003P	--	2010-10-21	2011-10-20
8	CLAMP METER	FLUKE	316	86080010	2010-4-21	2011-4-20
9	Thermo-Hygrometer	ZHICHEN	ZC1-2	01050033	2001-10-21	2011-10-20
10	Digital illuminance meter	TES electrical electronic Corp.	TES-1330A	050602219	2010-10-21	2011-10-20
11	TEMPERATURE& HUMIDITY BOX	KSON	THS-D2C-100	K40723	2010-11-18	2011-11-17
12	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2010-6-4	2011-6-3
13	Line impedance stabilization network	SCHWARZBECK	NSLK8127	8127-490	2010-5-8	2011-5-7

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6 Test Results

6.1 E.U.T. Operation

Input voltage: 4.5V (3 size “AA” battery)
Type of antenna: Integral
Temperature: 26 °C
Humidity: 56 % RH
Atmospheric Pressure: 1002 mbar
EUT Operation: Keep the EUT in transmitting mode, at low channel, middle channel and high channel.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2.403	12	2.443
2	2.407	13	2.447
3	2.411	14	2.451
4	2.414	15	2.455
5	2.417	16	2.459
6	2.420	17	2.463
7	2.424	18	2.467
8	2.428	19	2.471
9	2.432	20	2.474
10	2.436	21	2.477
11	2.440	22	2.480

Remark:

Low channel : 2403MHz

Middle channel: 2440MHz

High channel: 2480MHz

Test Mode: Keep the EUT transmitting the continuous modulation signal at the specific channel(s).

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6.2 Antenna requirement

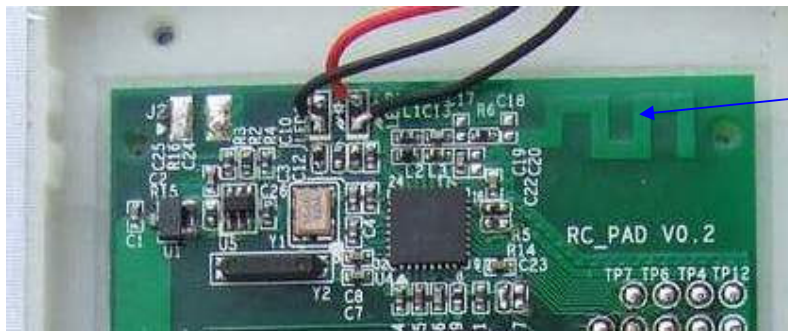
Standard Requirement: FCC Part15 C Section 15.203

15.203 Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

E.U.T Antenna

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2dBi.



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6.3 Test Procedure & Measurement Data

6.3.1 Test procedure

Test Requirement: FCC Part15 C Section 15.249(a) & (d)
Test Method: Based on FCC Part15 C Section 15.249 & ANSI C63.10
Test Date: Nov 23, 2010
Measurement Distance: 3m (Compact Semi-Anechoic Chamber)
Frequency range: 30 MHz – 25GHz for transmitting mode.
Test instrumentation resolution bandwidth/Video bandwidth
120 kHz/300KHz (30 MHz - 1000 MHz), QP Detector
1 MHz/1MHz (1GHz-25GHz) PK Detector
1MHz/10Hz (1GHz-25GHz) PK Detector
Operation: Receive antenna scan height 1 - 4 m, polarization Vertical/
Horizontal, a turntable rotate through 360° in the horizontal plane
and it is used to support the test sample at 0.8m above the ground
plane, the EUT positional on X,Y,Z three aspect.

Requirements:

FCC Part 15.249(a)

Fundamental Frequency (MHz)	Field Strength of Fundamental (dBμV/m @ 3m)	Field Strength of Harmonics (dBμV/m @ 3m)
902 to 928	94.0	54.0
2400 to 2483.5	94.0	54.0
5725 to 5875	94.0	54.0
24000 to 24250	108.0	68.0

FCC Part 15.249(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 Section 15.209, whichever is the lesser attenuation.

Remark:

The fundamental frequency of the EUT is 2403MHz, 2440MHz and 2480MHz.

The limit for average field strength dBμV/m for the fundamental frequency = 94.0 dBμV/m.

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The limit for peak field strength $\text{dB}\mu\text{V}/\text{m}$ for the fundamental frequency = $114.0 \text{ dB}\mu\text{V}/\text{m}$.

No fundamental is allowed in the restricted bands.

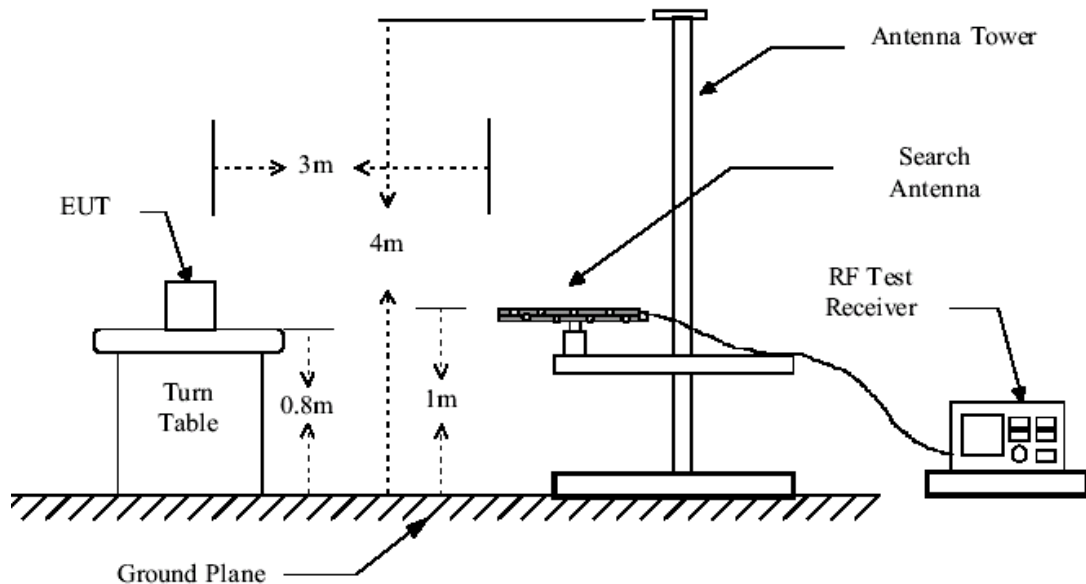
The limit for average field strength $\text{dB}\mu\text{V}/\text{m}$ for the harmonics = $54.0 \text{ dB}\mu\text{V}/\text{m}$.

The limit for peak field strength $\text{dB}\mu\text{V}/\text{m}$ for the harmonics = $74.0 \text{ dB}\mu\text{V}/\text{m}$.

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or $54.0 \text{ dB}\mu\text{V}/\text{m}$ in 15.209. Here the limit for the other emission is $54.0 \text{ dB}\mu\text{V}/\text{m}$.

Test Procedure: The procedure used was ANSI Standard C63.10-2009. The receiver was scanned from 30MHz to 25GHz. When an emission was found, the table was turned 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. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

Test Configuration:

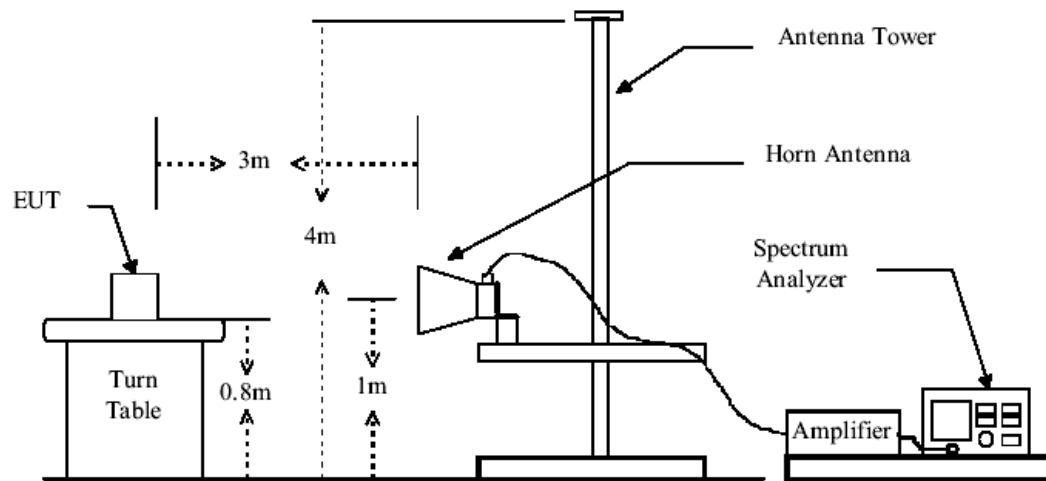


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The field strength is calculated by adding the Antenna Factor, Cable Factor & preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – preamplifier Factor

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6.3.2 Fundamental emission

Peak Value:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBμv)	Emission Level (dBμv/m)	Limit (dBμv/m)	Margin (dB)	Antenna Polarization (H/V)
2403	4.6	27.3	-42.2	103.30	93.00	114	21.00	V
2403	4.6	27.3	-42.2	101.64	91.34	114	22.66	H
2440	4.7	27.3	-42.2	103.57	93.37	114	20.63	V
2440	4.7	27.3	-42.2	100.93	90.73	114	23.27	H
2480	4.8	27.6	-42.5	100.79	90.69	114	23.31	V
2480	4.8	27.6	-42.5	102.88	92.78	114	21.22	H

Average Value:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBμv)	Emission Level (dBμv/m)	Limit (dBμv/m)	Margin (dB)	Antenna Polarization (H/V)
2403	4.6	27.3	-42.2	91.21	80.91	94	13.09	V
2403	4.6	27.3	-42.2	91.02	80.72	94	13.28	H
2440	4.7	27.3	-42.2	88.11	77.91	94	16.09	V
2440	4.7	27.3	-42.2	89.55	79.35	94	14.65	H
2480	4.8	27.6	-42.5	91.80	81.70	94	12.30	V
2480	4.8	27.6	-42.5	91.64	81.54	94	12.46	H

Remark: In the test, the EUT positional on X, Y, Z three aspect, we find X aspect is a worst case, test data refer above.

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6.3.3 Radiated emission below 1GHz

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBμv)	Emission Level (dBμv/m)	Limit (dBμv/m)	Margin (dB)	Antenna Polarization
162.633	1.43	15.1	-24.5	34.27	26.30	43.5	17.20	H
285.429	2.25	14.5	-24.4	36.75	29.10	46	16.90	H
799.462	3.37	22.2	-24.0	34.03	35.60	46	10.40	H
284.691	1.93	13.9	-24.4	24.67	16.10	46	29.90	V
719.999	3.2	21.7	-24.1	35.90	36.70	46	9.30	V
799.144	3.37	22.2	-24.0	35.93	37.50	46	8.50	V

6.3.4 Radiated emission above 1GHz

Low channel Peak Value:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBμv)	Emission Level (dBμv/m)	Limit (dBμv/m)	Margin (dB)	Antenna Polarization
4806	6.7	31.2	-43.4	63.30	57.80	74	16.20	H
7209	8.3	35.8	-43.3	51.32	52.12	74	21.88	H
9612	9.6	37.8	-43.5	45.32	49.22	74	24.78	H
12015	10.9	38.6	-44.0	42.20	47.70	74	26.30	H
4806	6.7	31.2	-43.4	65.33	59.83	74	14.17	V
7209	8.3	35.8	-43.3	48.25	49.05	74	24.95	V
9612	9.6	37.8	-43.5	39.85	43.75	74	30.25	V
12015	10.9	38.6	-44.0	40.10	45.60	74	28.40	V

Low channel Average Value:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBμv)	Emission Level (dBμv/m)	Limit (dBμv/m)	Margin (dB)	Antenna Polarization
4806	6.7	31.2	-43.4	49.53	44.03	54	9.97	H
7209	8.3	35.8	-43.3	38.76	39.56	54	14.44	H
9612	9.6	37.8	-43.5	28.31	32.21	54	21.79	H
12015	10.9	38.6	-44.0	28.58	34.08	54	19.92	H
4806	6.7	31.2	-43.4	50.02	44.52	54	9.48	V
7209	8.3	35.8	-43.3	38.77	39.57	54	14.43	V
9612	9.6	37.8	-43.5	28.50	32.40	54	21.60	V
12015	10.9	38.6	-44.0	28.63	34.13	54	19.87	V

Remark: No other radiation has been found

Middle channel Peak Value:

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Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBμv)	Emission Level (dBμv/m)	Limit (dBμv/m)	Margin (dB)	Antenna Polarization
4880	6.7	31.4	-43.5	63.72	58.32	74	15.68	H
7320	8.4	36.0	-43.1	52.55	53.85	74	20.15	H
9760	9.7	37.9	-43.0	42.80	47.40	74	26.60	H
12200	10.9	38.7	-44.1	41.91	47.41	74	26.59	H
4880	6.7	31.4	-43.5	64.88	59.48	74	14.52	V
7320	8.4	36.0	-43.1	53.64	54.94	74	19.06	V
9760	9.7	37.9	-43.0	42.83	47.43	74	26.57	V
12200	10.9	38.7	-44.1	42.56	48.06	74	25.94	V

Middle channel Average Value:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBμv)	Emission Level (dBμv/m)	Limit (dBμv/m)	Margin (dB)	Antenna Polarization
4880	6.7	31.4	-43.5	47.31	41.91	54	12.09	H
7320	8.4	36.0	-43.1	39.94	41.24	54	12.76	H
9760	9.7	37.9	-43.0	28.69	33.29	54	20.71	H
12200	10.9	38.7	-44.1	28.65	34.15	54	19.85	H
4880	6.7	31.4	-43.5	50.65	45.25	54	8.75	V
7320	8.4	36.0	-43.1	37.85	39.15	54	14.85	V
9760	9.7	37.9	-43.0	28.93	33.53	54	20.47	V
12200	10.9	38.7	-44.1	28.63	34.13	54	19.87	V

Remark: No other radiation has been found

High channel Peak Value:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBμv)	Emission Level (dBμv/m)	Limit (dBμv/m)	Margin (dB)	Antenna Polarization
4960	6.9	31.6	-43.9	65.31	59.91	74	14.09	H
7440	8.4	36.1	-43.1	53.26	54.66	74	19.34	H
9920	9.8	38.1	-42.3	43.15	48.75	74	25.25	H
12400	10.9	38.7	-44.3	42.15	47.45	74	26.55	H
4960	6.9	31.6	-43.9	66.34	60.94	74	13.06	V
7440	8.4	36.1	-43.1	51.40	52.8	74	21.20	V
9920	9.8	38.1	-42.3	42.55	48.15	74	25.85	V
12400	10.9	38.7	-44.3	42.52	47.82	74	26.18	V

High channel Average Value:

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SGS-CSTC Standards Technical Services Co., Ltd.

588 West Jindu Road, Songjiang District, Shanghai, China

Telephone: +86 (0) 21 6191 5666
Fax: +86 (0) 21 6191 5655
Tino.Pan@sgs.com

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Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dB μ v)	Emission Level (dB μ v/m)	Limit (dB μ v/m)	Margin (dB)	Antenna Polarization
4960	6.9	31.6	-43.9	47.02	41.62	54	12.38	H
7440	8.4	36.1	-43.1	37.59	38.99	54	15.01	H
9920	9.8	38.1	-42.3	28.43	34.03	54	19.97	H
12400	10.9	38.7	-44.3	29.09	34.39	54	19.61	H
2480	4.8	27.6	-42.5	86.83	76.73	94	17.27	V
4960	6.9	31.6	-43.9	51.47	46.07	54	7.93	V
7440	8.4	36.1	-43.1	35.09	36.49	54	17.51	V
9920	9.8	38.1	-42.3	28.37	33.97	54	20.03	V

Remark: No other radiation has been found

SGS-CSTC Standards Technical Services Co., Ltd.

588 West Jindu Road, Songjiang District, Shanghai, China

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Fax: +86 (0) 21 6191 5655
Tino.Pan@sgs.com

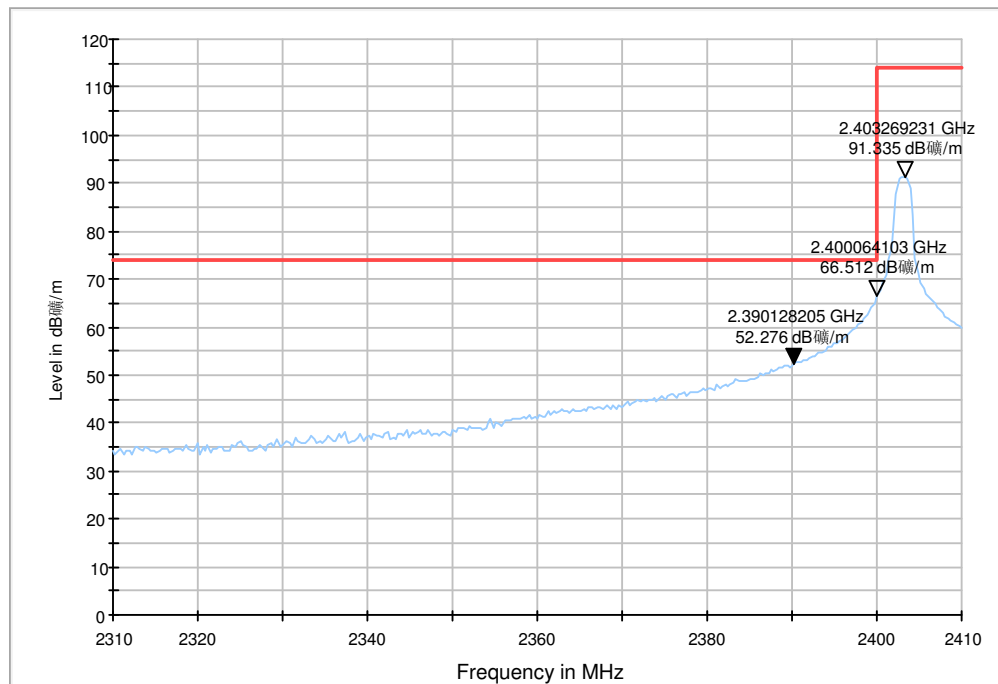
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6.3.5 Band Edge

Low channel peak Value:

Horizontal:

Band Edge for 15.249(2.4GHz) PK



Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Polarization (H/V)
2403	4.6	27.3	-42.2	101.64	91.34	114	22.66	H
2400	4.6	27.3	-42.2	76.81	66.51	74	7.49	H
2390	4.6	27.3	-42.2	62.58	52.28	74	21.72	H

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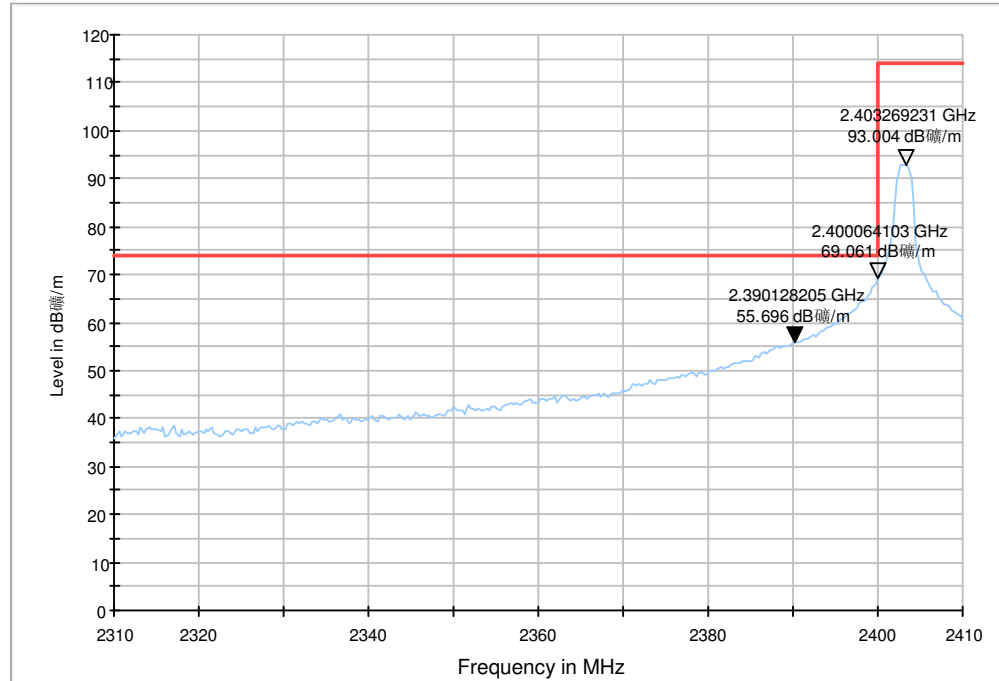
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Vertical:

Band Edge for 15.249(2.4GHz) PK



Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Polarization (H/V)
2403	4.6	27.3	-42.2	103.30	93.00	114	21.00	V
2400	4.6	27.3	-42.2	79.36	69.06	74	4.94	V
2390	4.6	27.3	-42.2	66.00	55.70	74	18.30	V

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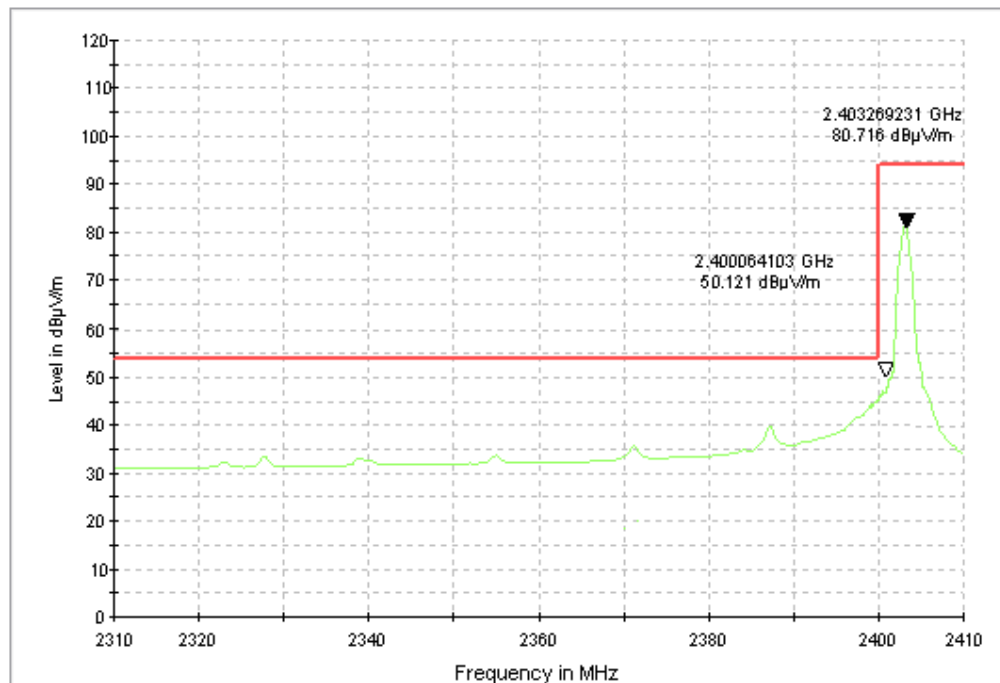
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Low channel Average Value:

Horizontal:

Band Edge for 15.249(2.4GHz) A/V



Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBμv)	Emission Level (dBμv/m)	Limit (dBμv/m)	Margin (dB)	Antenna Polarization (H/V)
2403.00	4.60	27.30	-42.20	91.02	80.72	94.00	13.28	H
2400.00	4.60	27.30	-42.20	60.42	50.12	54.00	3.88	H

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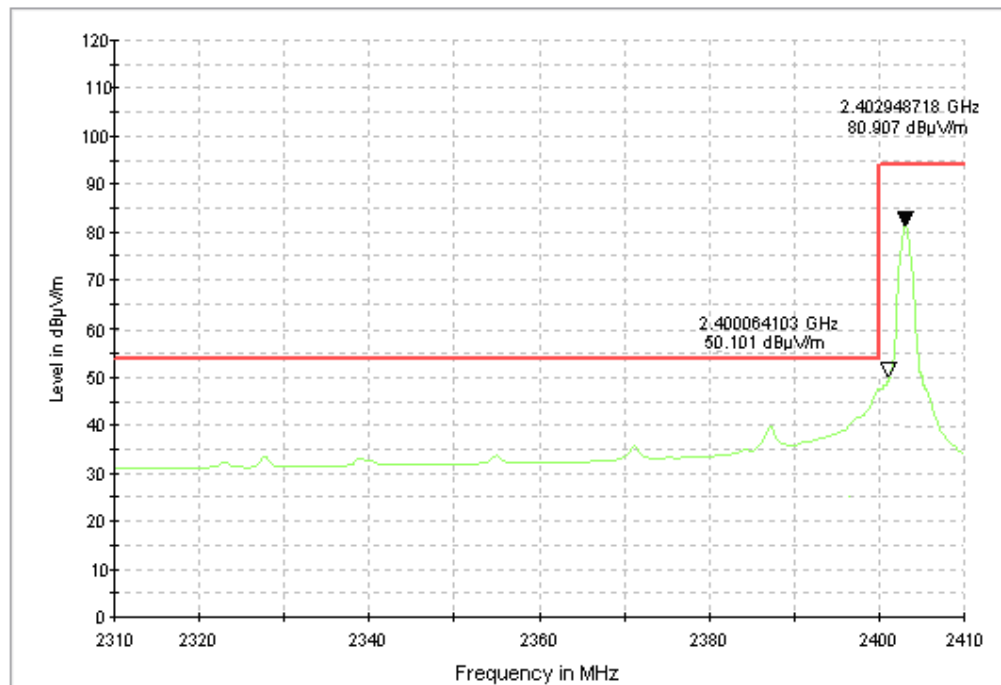
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Telephone: +86 (0) 21 6191 5666
Fax: +86 (0) 21 6191 5655
Tino.Pan@sgs.com

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Vertical

Band Edge for 15.249(2.4GHz) A/V



Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Polarization (H/V)
2403.00	4.60	27.30	-42.20	91.21	80.91	94.00	13.09	V
2400.00	4.60	27.30	-42.20	60.40	50.10	54.00	3.90	V

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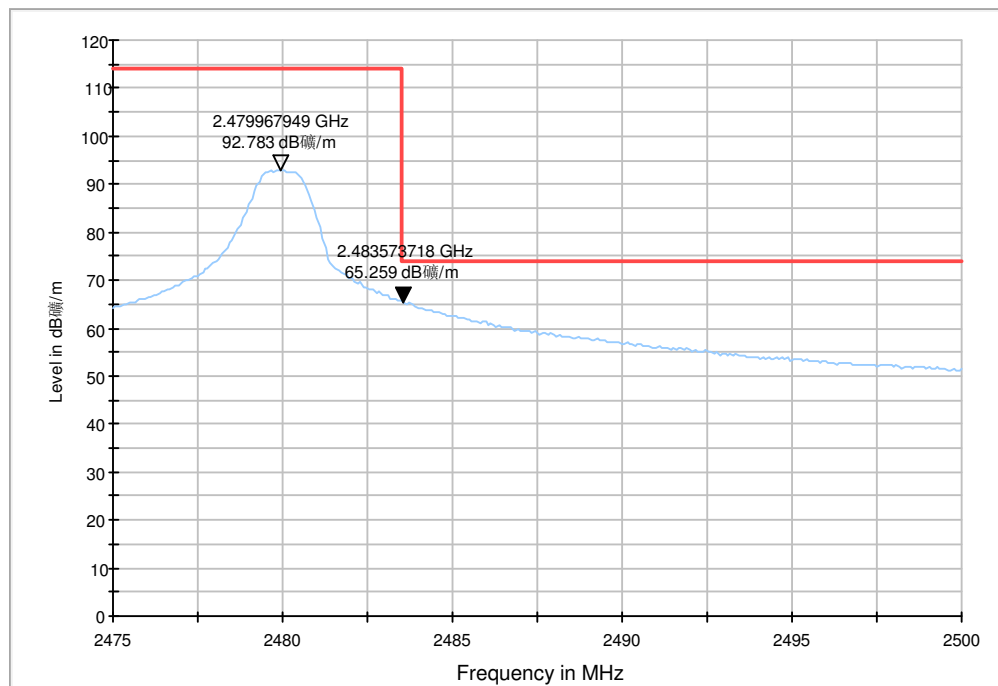
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Fax: +86 (0) 21 6191 5655
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High channel Peak Value:

Horizontal:

Band Edge for 15.249(2.4GHz) PK



Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Polarization (H/V)
2480	4.8	27.6	-42.5	102.88	92.78	114	21.22	H
2483.5	4.8	27.6	-42.5	75.36	65.26	74	8.74	H

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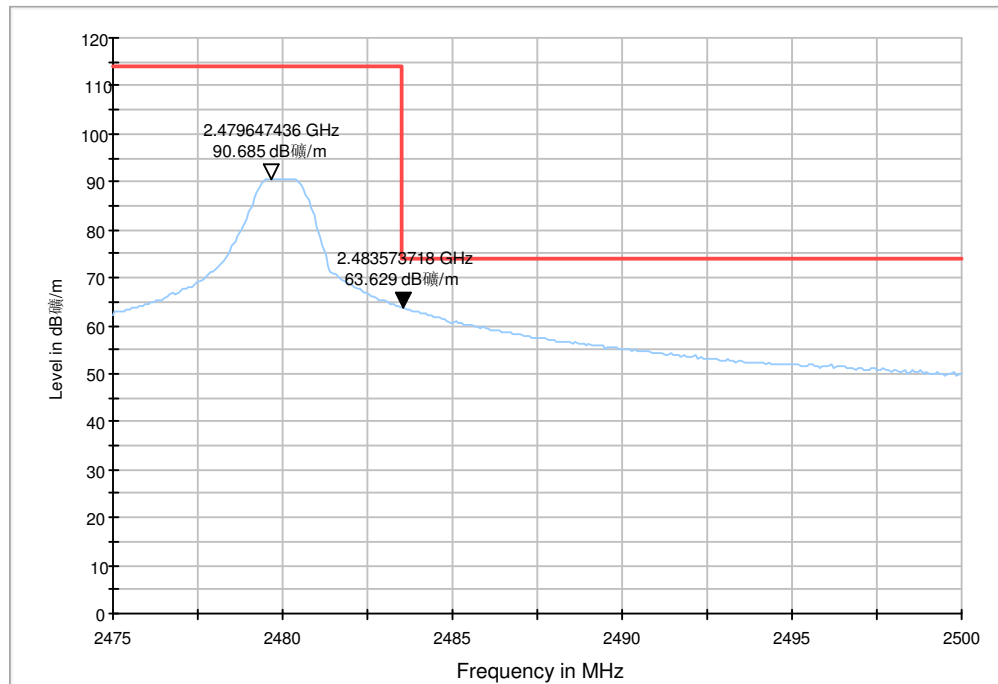
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Fax: +86 (0) 21 6191 5655
Tino.Pan@sgs.com

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Vertical:

Band Edge for 15.249(2.4GHz) PK



Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Polarization (H/V)
2480	4.8	27.6	-42.5	100.79	90.69	114	23.31	V
2483.5	4.8	27.6	-42.5	73.73	63.63	74	10.37	V

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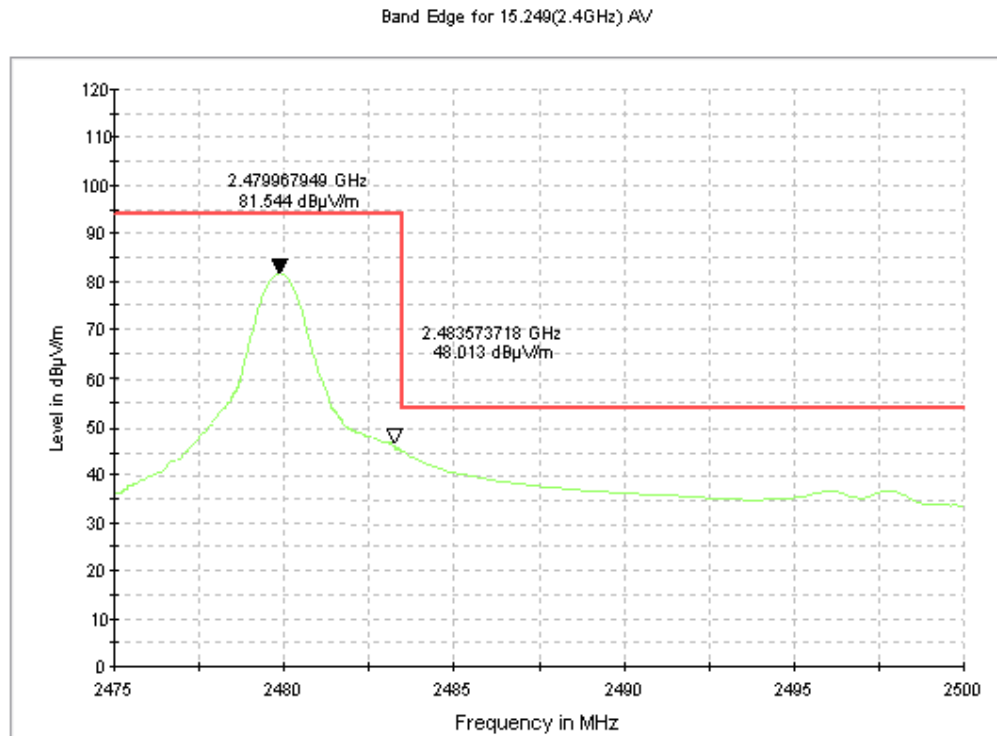
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588 West Jindu Road, Songjiang District, Shanghai, China

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Fax: +86 (0) 21 6191 5655
Tino.Pan@sgs.com

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High channel Average Value:
Horizontal:



Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBμv)	Emission Level (dBμv/m)	Limit (dBμv/m)	Margin (dB)	Antenna Polarization (H/V)
2480.00	4.80	27.60	-42.50	91.64	81.54	94.00	12.46	H
2483.50	4.80	27.60	-42.50	58.11	48.01	54.00	5.99	H

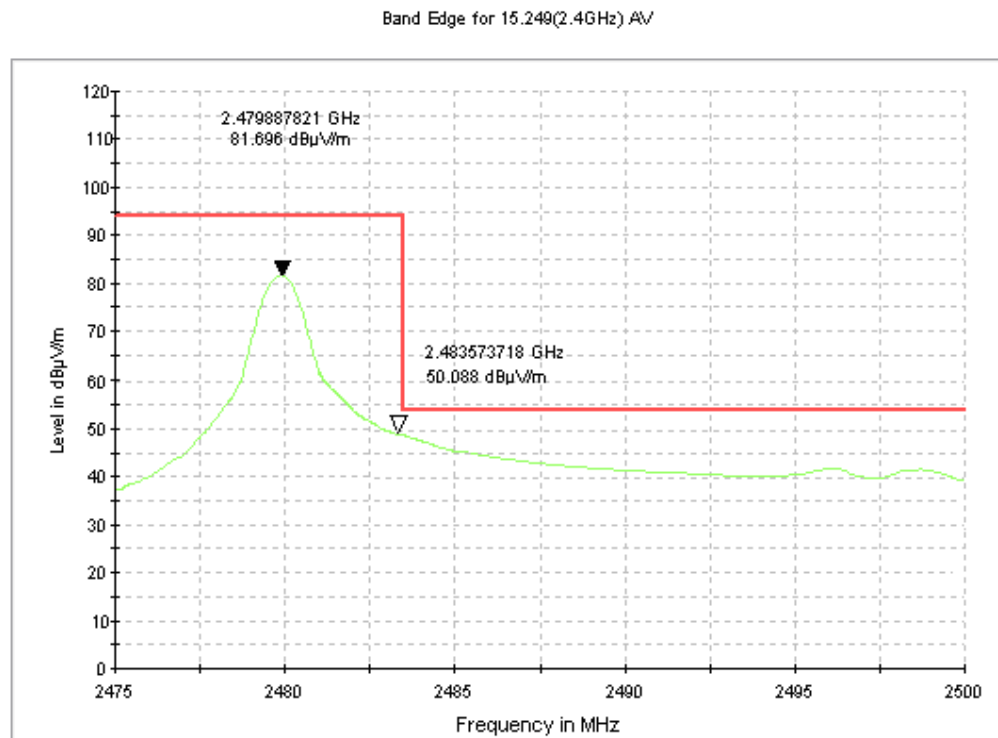
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588 West Jindu Road, Songjiang District, Shanghai, China

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Fax: +86 (0) 21 6191 5655
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Vertical:



Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBμv)	Emission Level (dBμv/m)	Limit (dBμv/m)	Margin (dB)	Antenna Polarization (H/V)
2480.00	4.80	27.60	-42.50	91.80	81.70	94.00	12.30	V
2483.50	4.80	27.60	-42.50	60.19	50.09	54.00	3.91	V

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588 West Jindu Road, Songjiang District, Shanghai, China

Telephone: +86 (0) 21 6191 5666
Fax: +86 (0) 21 6191 5655
Tino.Pan@sgs.com

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6.3.6 Occupied Bandwidth

Test Requirement: FCC Part 15 Section 15.249/15.215(c)
Test Method: ANSI C63.10
Operation within the band 2400-2483.5MHz
Test Date: Nov 27, 2010
Requirements: 15.249 (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 Section 15.209, whichever is the lesser attenuation.
Method of measurement: A small sample of the transmitter output was fed into the Spectrum Analyzer and the attached plot was taken. Set RBW=100kHz, VBW=300kHz, sweep time = Auto.

Occupied Bandwidth:

Test result:

Test Channel	20 dB bandwidth
Low channel	1.603MHz
Middle channel	1.651MHz
High channel	1.627MHz

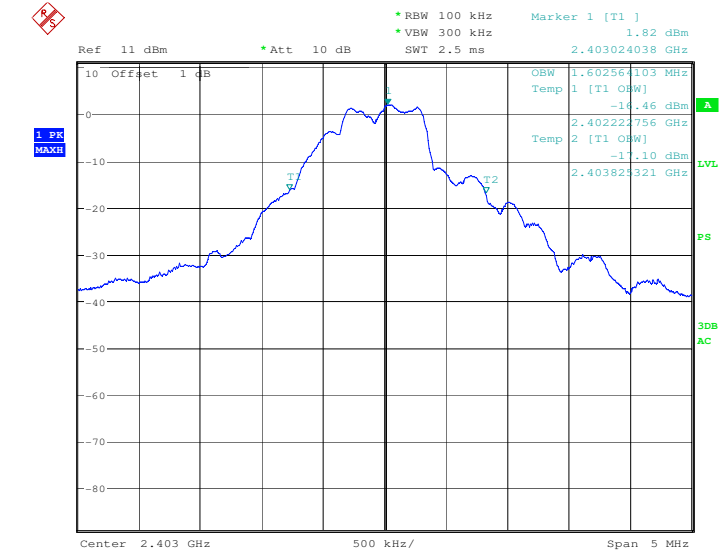
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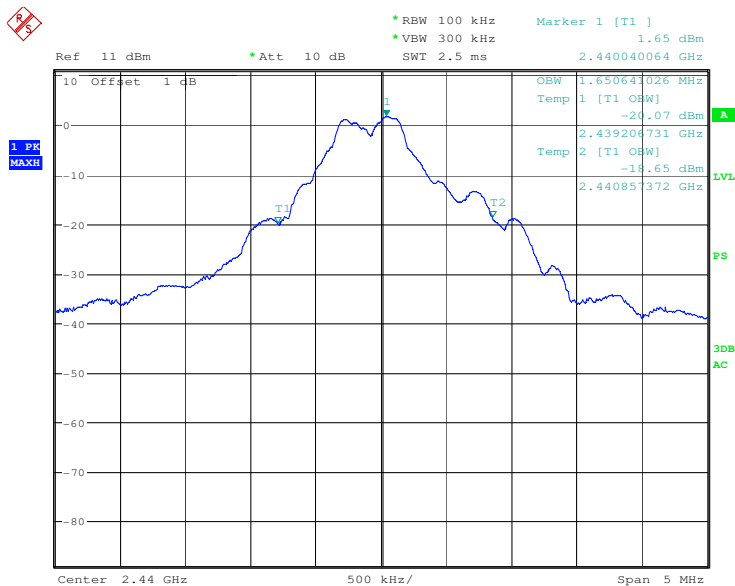
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Low Channel:



Middle Channel:



High Channel:

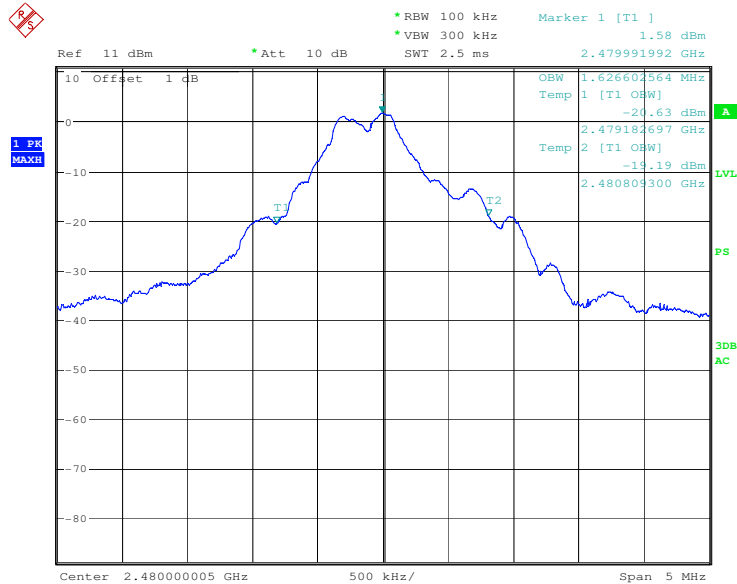
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Fax: +86 (0) 21 6191 5655
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End of Report.