SGS-CSTC Standards
Technical Services Co., Ltd.

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TEST REPORT

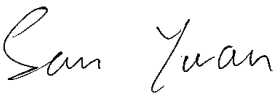
Application No. :	SHEMO09070085902
Applicant:	ZHANGZHOU JIMEI ELECTRONIC CO.,LTD.
FCC ID:	VI7H997
Fundamental Frequency :	434MHz
Equipment Under Test (EUT):	
Name:	Weather station transmitter
Model No.:	H997
Standards:	FCC PART 15 SUBPART C, Section 15.231(e)
Date of Receipt:	July 30,2009
Date of Test:	August 3,2009 to August 28,2009
Date of Issue:	August 31,2009
Test Result :	**PASS ***

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

Approved by:

Tino Pan
E&E Section Manager

Tested By:



San Yuan
EMC TEST Engineer

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2 Test Summary

The customer requested FCC tests for a 433MHz transmitter.			
Test	**Test Requirement**	**Stanadard Paragraph**	**Result**
AC Power Line Conducted Emission	FCC PART 15	Section 15.207(a)	PASS
Restricted bands of operation	FCC PART 15	Section 15.205	PASS
Radiated Emission Limits	FCC PART 15	Section 15.209	PASS
Operation mode	FCC PART 15	Section 15.231(e)	PASS
Field Strength of Fundamental and Spurious Emissions	FCC PART 15	Section 15.231(e)	PASS
Bandwidth	FCC PART 15	Section 15.231(c)	PASS

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3 Contents

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4 General Information

4.1 Client Information

Applicant Name: ZHANGZHOU JIMEI ELECTRONIC CO.,LTD.

Applicant Address: HENGY ROAD,LANTIAN INDUSTRIAL DISTRICT, ZHANGZHOU,FUJIAN,CHINA

4.2 Details of E.U.T.

Name: Weather station transmitter

Model No.: H997

Power Supply: 5V DC from USB of host PC

Power Cord: N/A

4.3 Description of Support Units

Name / Function	Model No.	Remark	S/N
LCD DISPLAYER	L170	IBM	23FD180
MOUSE	M-UAE119	Lenovo	41U3029
KEYBOARD	KU-0225	Lenovo	0151853
PC	8172	IBM	99L0111

4.4 Test Location

Tests were performed at:

SGS-CSTC EMC Laboratory, No.588 West Jindu Road,Songjiang District,Shanghai,China
Tel:+86 21 6191 5666 Fax:+86 21 6191 5655
No tests were sub-contracted.

4.5 Other Information Requested by the Customer

None.

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4.6 Test Facility

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

FCC – Registration No.: 402683

EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 402683.

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5 Test Results

5.1 Test Instruments

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	Spectrum Analyzer	Rohde & Schwarz	FSP-30	100324	2009-4-21	2010-4-20
2	EMI test receiver	Rohde & Schwarz	ESU40	100109	2009-6-4	2010-6-3
3	Bilog Antenna	TESEQ	CBL6112D	23193	2009-5-14	2010-5-14
4	Horn Antenna	EMCO	3115	9100284	2009-4-11	2010-4-10
5	Horn Antenna	EMCO	3115	100285	2008-10-9	2009-10-8
6	ANTENNA	SCHWARZBECK	VULB9168	9168-313	2009-5-29	2010-5-28
7	VHAP PRECISION HALFWAVE DIPOLES	R&S	VHAP	1096＋1097	2009-5-18	2010-5-17
8	Atmosphere pressure meter	Shanghai ZhongXuan Electronic Co;Ltd	BY－2003P	--	2008-10-21	2009-10-20
9	CLAMP METER	FLUKE	316	86080010	2009-4-21	2010-4-20
10	Thermo-Hygrometer	ZHICHEN	ZC1-2	01050033	2008-10-21	2009-10-20
11	Digital illuminance meter	TES electrical electronic Corp.	TES-1330A	050602219	2008-10-21	2009-10-20
12	TEMPERATURE& HUMIDITY BOX	KSON	THS-D2C-100	K40723	2008-11-18	2009-11-17
13	High-low temperature cabinet	Shanghai YuanZhen	GW2050	--	2009-6-18	2010-6-17
14	DC power	KIKUSUI	PMC35－3	NF100260	--	--
15	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2009-06-04	2010-06-03

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16	Line impedance stabilization network	SCHWARZBECK	NSLK8127	8127-490	2009-05-08	2010-05-07

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5.2 E.U.T. Operation

Input voltage: 5V DC from USB of host PC

Operating Environment:

Temperature: 25.0 °C

Humidity: 56 % RH

Atmospheric Pressure: 1008 mbar

EUT Operation: Test the EUT in transmitting mode.

5.3 Test Procedure & Measurement Data

5.3.1 Conducted Emission Test

Test Requirement: FCC Part15 15.207

Test date: August 28,2009

Standard Applicable According to section 15.207,frequency 150KHz to 30MHz shall not not exceed the limit table as blew.

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

*

EUT Setup 1.The conducted emission tests were performed in the test site,using the setup in accordance with the ANSI C63.4-2003.

2.The AC/DC Power adaptor of EUT was plug-in LISN.The rear of the EUT and periphearals were placed flushed with the rear of the tabletop.

3.The LISN was connected with 110V AC/60Hz power source.

Measurement Result Operation mode:Normal Link Mode

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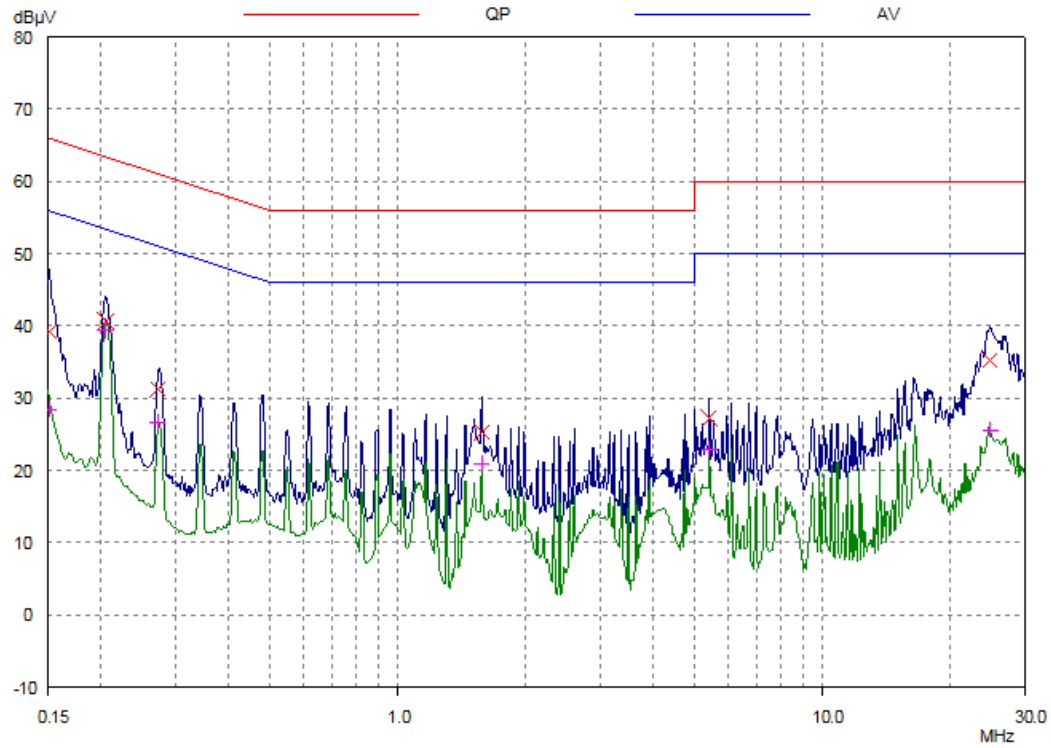
L line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.1512	39.15	65.93	26.78
0.20466	40.65	63.42	22.77
0.27266	31.14	61.04	29.90
1.57379	25.33	56.00	30.67
5.41166	27.24	60.00	32.76
24.7909	35.27	60.00	24.73

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.1512	28.34	55.93	27.59
0.20466	39.38	53.42	14.04
0.27266	26.59	51.04	24.45
1.57379	20.87	46.00	25.13
5.41166	22.94	50.00	27.06
24.7909	25.60	50.00	24.40

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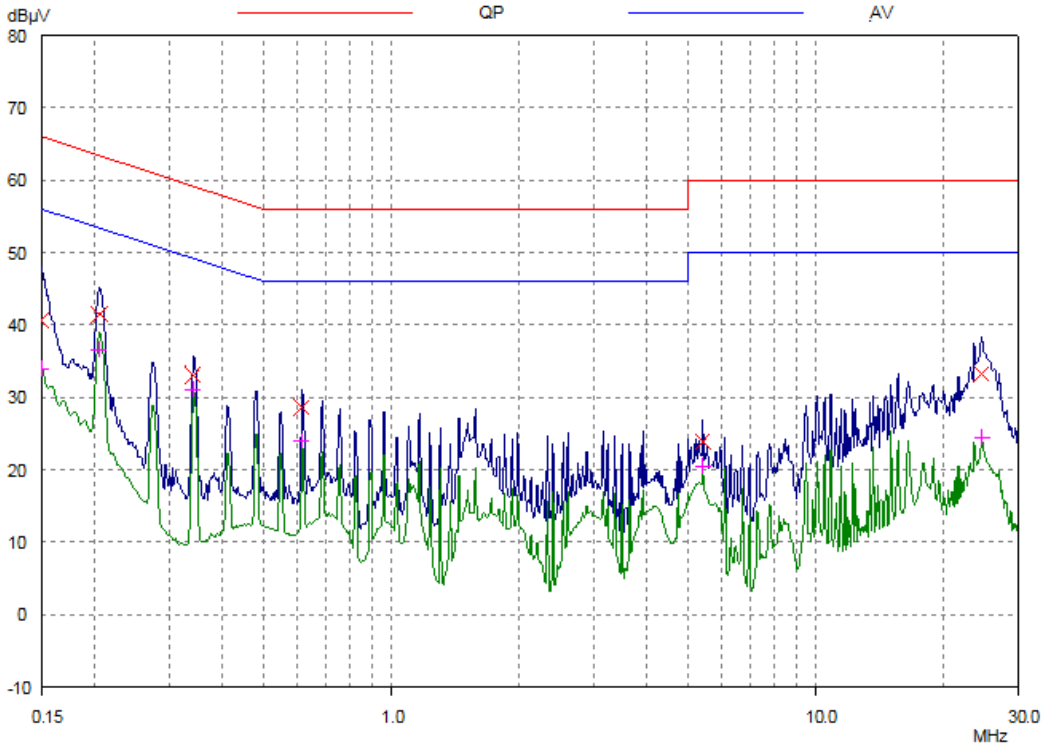
N Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
0.15	40.59	66.00	25.41
0.20466	41.46	63.42	21.96
0.34082	33.11	59.18	26.07
0.61461	28.58	56.00	27.42
5.41166	23.92	60.00	36.08
24.59414	33.19	60.00	26.81

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
0.15	33.83	56.00	22.17
0.20466	36.58	53.42	16.84
0.34082	31.00	49.18	18.18
0.61461	23.89	46.00	22.11
5.41166	20.56	50.00	29.44
24.59414	24.47	50.00	25.53

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5.3.2 Operation Mode

Test Requirement: FCC Part15 C 15.231(e)

Test date: August 27,2009

Oeration mode Requirement

(1) A manually operated transmitter shall employ a switch that will Automatically the transmitter within not more than 5 seconds of Bening released.

(2) A transmitter activated automatically shall cease transmission Within 5 seconds after activation.

(3) Periodic transmissions at regular predetermined intervals are not permitted .However,pllling or supervision transmissions, including data,to determine system integrity of transmitters used on security or safety applications are allowed if the tatal duration of transmissions does not exceed more than two seconds per hour for each transmitter,There is no limit on the number of individual transmissions,provided the total transmission time does not exceed two seconds per hour.

(4) Intentional radiators which are employed for radio control purposes during emergencies involving fire,security,and satfety of life,when activated to signal an alarm,may operate during the pendency of the alarm condition.

(5) In addition,devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at lease 30 times the duration of the transmission but in no case less than 10 seconds.

RESULTS The EUT meets the operation mode requirement.The test result Relate only to the equipment under test provided by client.

FCC Rules (15.231 e) Devices operated under the provisions of this paragraph shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 second.

Conclusion This device is a automatic transmissions at a periodic rate. And that meet the operation mode description of 15.231(e),Please refer to following data.

Operated Frequency	Durationof each transmission	Limit(s)	Result
433.94MHz	0.993	1	Pass

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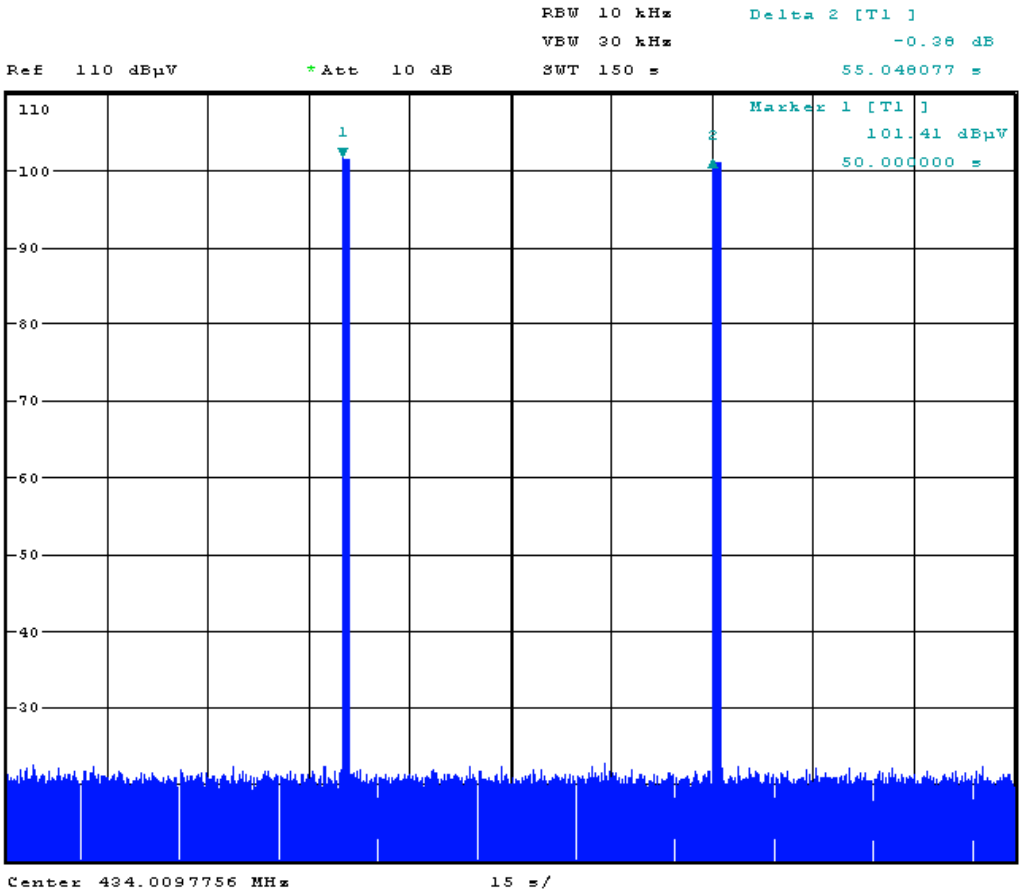
Operated Frequency	Silent period(s)	Limits 1(s)	Limits 2(s)	Result
433.94MHz	55.048-0.993=54.055	>(30*0.993=29.79)	>10	PASS



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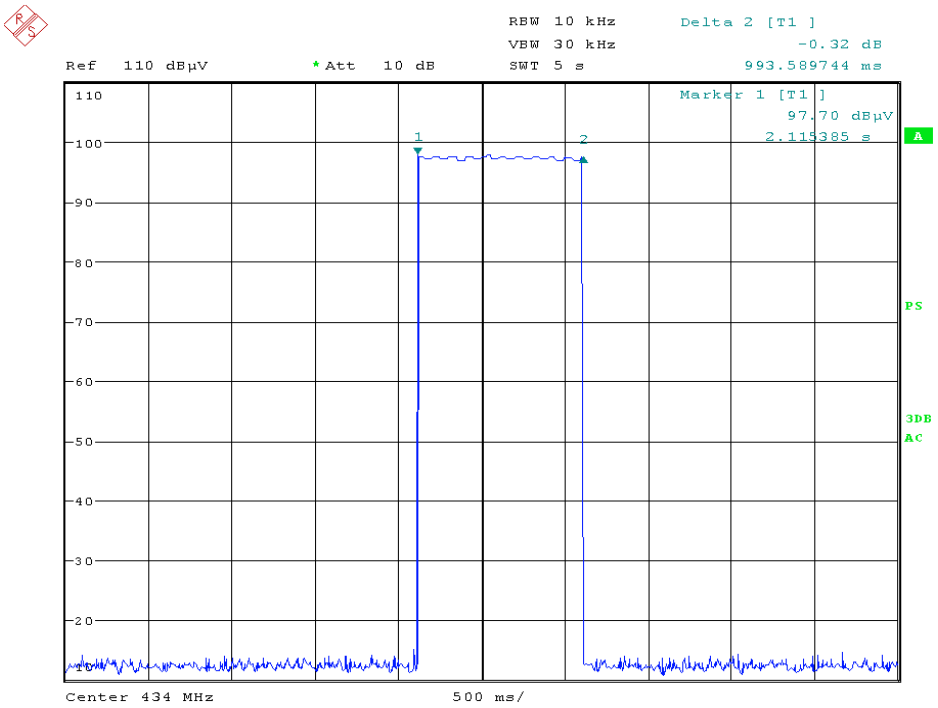

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5.3.3 Radiated Emission Measurement

Test Requirement: FCC Part 15.209,FCC Part 15.231(e),ANSI C63.4 :2003,

Test date August 25,2009

Test Procedure:

a. The EUT was placed on a rotatable table with 0.8 meters above groud.

b. The EUT was set 3meters from the interference-receiving antenna,which was mounted on the top of a variable height antenna tower.

c. The antenna was varied between one meter and four menters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna were set to make measurement.

d. For each suspected emission the EUT was arranged to its worst case and then change the antenna tower height(from 1m to 4m) and tum table (from 0 degree to 360 degree) to find the maximum reading.

e. If the emission level of the EUT in pek mode was 20dB lower than the specified,then testing will be stopped and peak values of EUT will be reported,otherwise,the emissions will be tesed using the quasi-peak method in about six maximal points and the results will be reported.

f. Broadban antenna(Calibrated antenna)was used as receiving antenna below 1000MHz.Hom antenna were used as receiving antenna above 1000MHz

g. The banwith is 120KHz below 1000MHz and 1MHz above 1000MHz.

Results The EUT meets the requirements of test reference for Radiated Emissions.The test results relate only to equipment under thest provided by client.

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Section 15.205 Restricted bands of operation:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])
13.36 - 13.41			

[1] Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
[2] Above 38.6

The fundermental is not in a restricted band ,and the fundamental&spurious emission in the restricted bands comply with the general emission limits of 15.209

Field strength limits of 15.209:

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Other Frequency (MHz)	*Field strength (uV/meter)*	*dB uV/meter*
30-88	*100*	*40.0*
88-216	*150*	*43.5*
216-960	*200*	*46.0*
Above 960	*500*	*54.0*

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15.231(e) Fundamental and Harmonics emission limits:

In addition to the provisions of section 15.205,the field strength of emissions from intentional radiators operated under this section shall not exceed the following.

Fundamental Frequency(MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emission (microvolts/meter)
40.66-40.70	1,000	100
70-130	500	50
130-174	500 to 1,500**	50 to 150**
174-260	1,500	150
260-470	1,500 to 5,000**	150 to 500**
Above 470	5,000	500

** linear interpolations

Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

For the band 130-170MHz,

μV/m at 3 meters=22.72727(F)-2454.545;

For the band 260-470MHz

μV/m at 3 meters=16.6667(F)-2833.3333;

The maximum permitted unwanted emission level is 20dB below the maximum permitted fundamental level.

The above field strength limits are specified at a distance of 3meter,The tighter limits apply at band edges.

In the above table,base on the average value of the measure emissions

The fundamental frequency of the EUT is 434.0 MHz

The limit for average field strength dBuv/m for the fundamental emission= 72.87 dBuV/m

No fundamental is allowed in the restricted bands.

The limit for average field strength dBuv/m for the spurious emission=52.87 dBuV/m.Spurious in the restricted bands must be less than 52.87 dBuV/m or 15.209, Whichever limit permits a higher field strength.

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Fundamental and spurious emission data:

Antenna polarization: Horizontal

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Remark
434.01	56.52	17.4	0.35	--	74.27	92.87	18.6	PEAK
434.01	44.31	17.4	0.35	--	62.06	72.87	10.81	AVERAG
868.02	26.65	23.10	0.50	--	50.25	72.87	22.62	PEAK
868.02	14.44	23.10	0.50	--	38.04	52.87	14.83	AVERAG
1302.03*	57.58	24.60	0.52	42.2	40.5	74.00	33.5	PEAK
1302.03*	45.37	24.60	0.52	42.2	28.29	54.00	25.71	AVERAG
1736.04	52.2	24.90	0.70	42.2	35.6	72.87	37.27	PEAK
1736.04	39.99	24.90	0.70	42.2	23.39	52.87	29.48	AVERAG
2170.05	33.1	26.10	0.75	42.4	17.55	72.87	55.32	PEAK
2170.05	20.89	26.10	0.75	42.4	5.34	52.87	47.53	AVERAG
2604.06	30.28	27.90	0.90	42.5	16.58	72.87	56.29	PEAK
2604.06	18.07	27.90	0.90	42.5	4.37	52.87	48.5	AVERAG
3038.07	34.05	28.20	1.00	42.7	20.55	72.87	52.32	PEAK
3038.07	21.84	28.20	1.00	42.7	8.34	52.87	44.53	AVERAG
3472.08	34.76	28.50	1.10	42.8	21.56	72.87	51.31	PEAK
3472.08	22.55	28.50	1.10	42.8	9.35	52.87	43.52	AVERAG
3906.09*	35.75	29.50	1.20	42.8	23.65	74.00	50.35	PEAK

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3906.09*	23.54	29.50	1.20	42.8	11.44	54.00	42.56	AVERAG
4340.1*	35.65	30.4	1.21	42.9	24.36	74.00	49.64	PEAK
4340.1*	23.44	30.4	1.21	42.9	12.15	54.00	41.85	AVERAG

Antenna polarization: Vertical

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Remark
434.01	63.81	17.4	0.35	--	81.56	92.87	11.31	PEAK
434.01	51.6	17.4	0.35	--	69.35	72.87	3.52	AVERAG
868.02	36.95	23.10	0.50	--	60.55	72.87	12.32	PEAK
868.02	24.74	23.10	0.50	--	48.34	52.87	4.53	AVERAG
1302.03*	71.44	24.60	0.52	42.2	54.36	74.00	19.64	PEAK
1302.03*	59.23	24.60	0.52	42.2	42.15	54.00	11.85	AVERAG
1736.04	55.25	24.90	0.70	42.2	38.65	72.87	34.22	PEAK
1736.04	43.04	24.90	0.70	42.2	26.44	52.87	26.43	AVERAG
2170.05	37.68	26.10	0.75	42.4	22.13	72.87	50.74	PEAK
2170.05	25.47	26.10	0.75	42.4	9.92	52.87	42.95	AVERAG

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2604.06	38.48	27.90	0.90	42.5	24.78	72.87	48.09	PEAK
2604.06	26.27	27.90	0.90	42.5	12.57	52.87	40.3	AVERAG
3038.07	40.13	28.20	1.00	42.7	26.63	72.87	46.24	PEAK
3038.07	27.92	28.20	1.00	42.7	14.42	52.87	38.45	AVERAG
3472.08	41.07	28.50	1.10	42.8	27.87	72.87	45	PEAK
3472.08	28.86	28.50	1.10	42.8	15.66	52.87	37.21	AVERAG
3906.09*	41.08	29.50	1.20	42.8	28.98	74.00	45.02	PEAK
3906.09*	28.87	29.50	1.20	42.8	16.77	54.00	37.23	AVERAG
4340.1*	40.07	30.4	1.21	42.9	28.78	74.00	45.22	PEAK
4340.1*	27.86	30.4	1.21	42.9	16.57	54.00	37.43	AVERAG

Other emission data:

All reading bellow 1GHz are Quasi-peak,above 1G are average value.

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB/m)	Level (dBuV/m)	Limit Line (dBuV/m)	Safe Margin (dB)	Ant.Pol (H/V)
67.72	14.5	12.5	0.1	27.1	40	12.9	V
106.04	14.6	11.6	0.2	26.4	43.5	17.1	V
189.5	21.5	11.5	0.2	33.2	43.5	10.3	V
147.07	11.7	14.6	0.2	26.5	43.5	17.0	H
190.64	21.4	11.5	0.2	33.1	43.5	9.4	H
330.56	22.9	15.5	0.3	38.7	46	7.3	H

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Remark:

1. The frequency range was scanned from 30MHz to 4.5GHz, all emissions not recorded were very low against the limit.
2. According to FCC 15.35(b),maximum permitted peak field strength is 20dB above the maximum permitted average emission limit.
3. Peak Field Strength=Read Level +Factor
   Factor=Antenna Fctor+Cable Loss-Preamp Factor
   Average Field Strength=Peak Field Strength+ Duty Cycle Correction Factor
4. "*"means emission within the restricted band of part15,205,the corresponding limit as per 15.209
5. Duty Cycle Correction Factor is calculated by averaging the sum of the pulse tran.Correction factor is measured as follows:
   Keep the EUT in continuous transmission mode(modulated),and set the spectrum to the fundamental frequency and set the span width to 0Hz.Then connect a storage oscilloscope to the video output of the spectrum that is used to detect the pulse train.Adjust the oscilloscope settings to observe the pulse train and determine the number and width of the pulses,as well as the period of the train.
   Duty Cycle Correction Factor in 0.1s at its maximum value
   =20log(duty cycle)
   =20log(T, ontime/T, period or 100ms)
   =20log(201*0.122ms/100ms)
   =20log(24.52/100)
   =-12.21
   Please refer to the following test graph:

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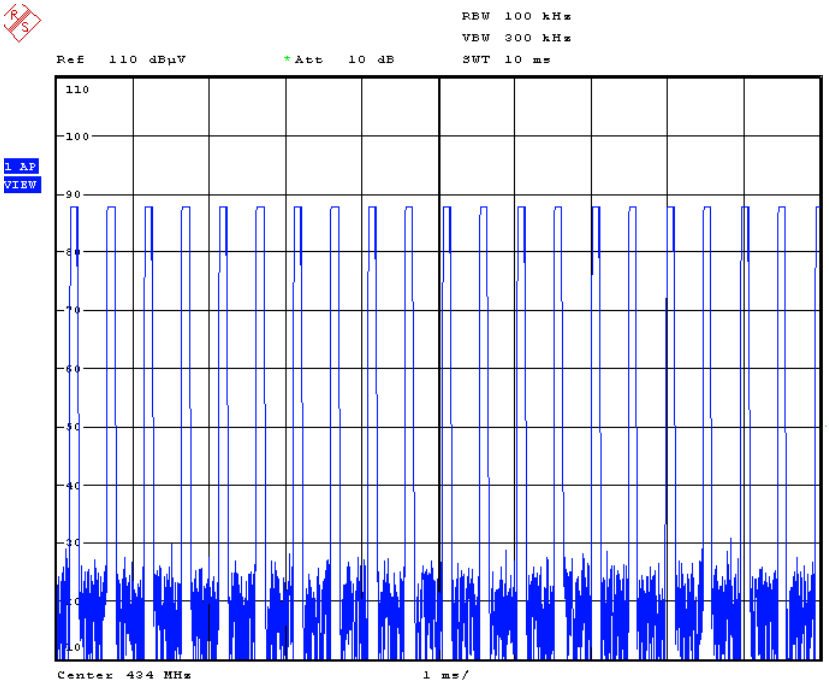

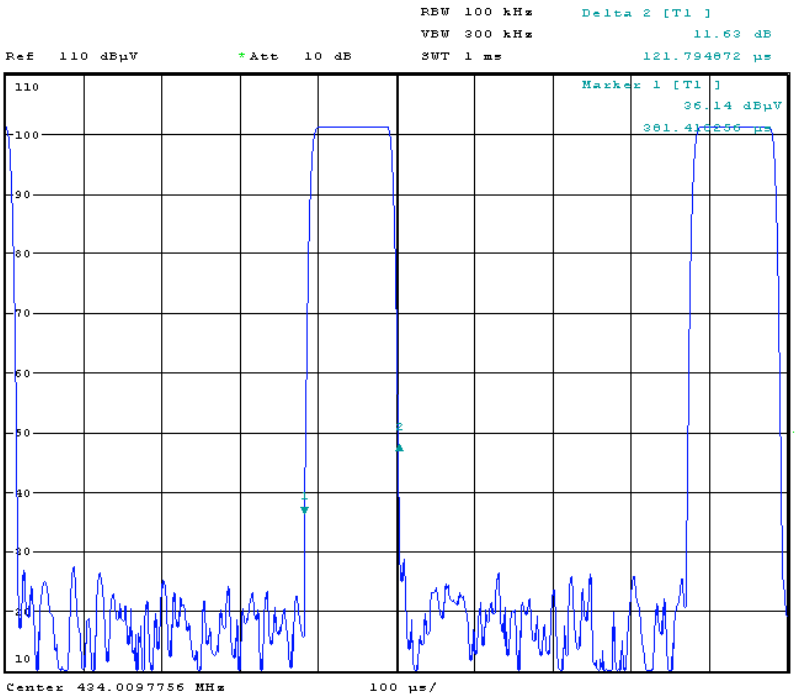

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5.3.4 Bandwidth Measurement

Test Requirement: FCC Part15 C 15.231(c)

Test date: August 27,2009

Bandwidth Requirement: The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70MHz and below 900MHz.For devices operating above 900MHz,The emission shall be no wider than 0.5% of the center frequency .Bandwidth is detemined at the points 20dB down from the modulated carrier.

Test Procedure: The transmitter shall be operated at its maximum carrier power measured under normal test conditions.The span of the analyzer shall be set to capture all products of the modulation process,including the emission skirts,The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%.The video bandwidth shall be set to 3 times the resolution bandwidth.Video averaging is not permitted. Where practical,a sampling detector shall be used since a peak or,peak hold,may produce a wider bandwidth than actual.

The trace data points are recovered and directly summed in linear terms.The recovered amplitude data points,beginning at the lowest frequency,are placed in a runnig sum until 0.5% of the total is reached and that frequency recorded.The process is repeated for the highest frequency data points.This frequencies is the occupied bandwidte

Bandwidth limit=0.25%*434MHz=1.085MHz

SGS-CSTC Standards
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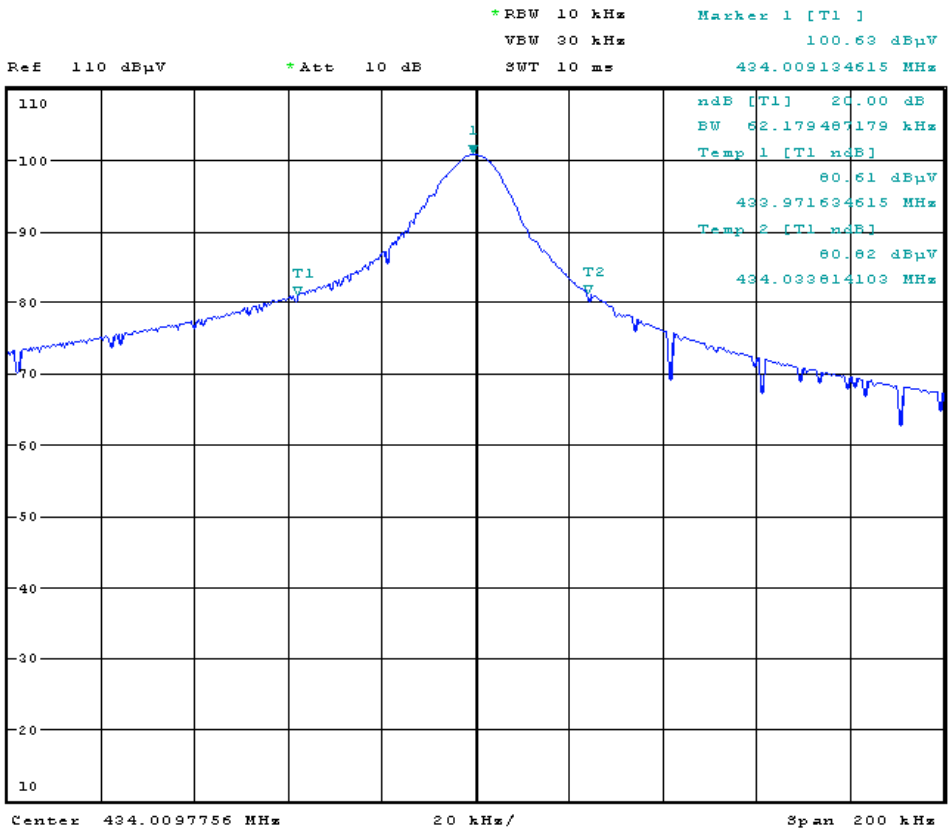

Test data:

Bandwidth Limit (MHz) (Fcenter×0.25%)	Test Result(MHz)	Condusion
1.085	0.062	Pass