

EMC TEST REPORT

For

Wireless Transceiver

Model Number: HCS-6100RF
FCC ID: WGV6100RF

Report Number : WT088001182

Test Laboratory	:	Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory Guangdong EMC Compliance Test Center
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TABLE OF CONTENTS

TEST REPORT DECLARATION	3
1. TEST RESULTS SUMMARY	4
2. GENERAL INFORMATION	5
2.1. Report information.....	5
2.2. Laboratory Accreditation and Relationship to Customer	5
2.3. Measurement Uncertainty	6
3. PRODUCT DESCRIPTION	7
3.1. EUT Description	7
3.2. Related Submittal(s) / Grant (s)	7
3.3. Block Diagram of EUT Configuration.....	8
3.4. Operating Condition of EUT	8
3.5. Special Accessories.....	8
3.6. Equipment Modifications.....	8
3.7. Support Equipment List	8
3.8. Test Conditions	8
4. TEST EQUIPMENT USED	9
4.1. Test Equipment Used to Measure Conducted Disturbance	9
4.2. Test Equipment Used to Measure Radiated Disturbance and bandwidth.....	9
5. CONDUCTED DISTURBANCE TEST	10
5.1. Test Standard and Limit.....	10
5.2. Test Procedure	10
5.3. Test Arrangement.....	10
5.4. Test Data	10
6. RADIATED DISTURBANCE TEST	15
6.1. Test Standard and Limit.....	15
6.2. Test Procedure	15
6.3. Test Arrangement.....	15
6.4. Test Data	16
7. OCCUPIED BANDWIDTH	20
7.1. Test Standard and Limit.....	20
7.2. Test Procedure	20
7.3. Test Arrangement.....	20
7.4. Test Data	20
8. BAND EDGE	24
8.1. Test Standard and Limit.....	24
8.2. Band Edge FCC 15.249(d) Limit.....	24
8.3. Test Procedure	24
8.4. Test Arrangement.....	24
8.5. Test Data	24
9. ANTENNA REQUIREMENT	27
APPENDIX I TEST PHOTO	28
APPENDIX II EUT PHOTO	31

TEST REPORT DECLARATION

Applicant : TAIDEN INDUSTRIAL CO.,LTD.
Address : 23/F, POLY BUILDING, NANSHAN DISTRICT, SHENZHEN, CHINA
Manufacturer : TAIDEN INDUSTRIAL CO.,LTD.
Address : 23/F, POLY BUILDING, NANSHAN DISTRICT, SHENZHEN, CHINA
EUT Description : Wireless Transceiver
Model Number : HCS-6100RF
FCC ID Number : WGV6100RF

Test Standards:

FCC Part 15 15.207, 15.209, 15.249

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.207, 15.209 and 15.249.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Tested by:



(Kevin Qiu)

Date:

2009.04.15

Checked by:

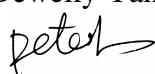


(Dewelly Yang)

Date:

2009.04.15

Approved by:



(Peter Lin)

Date:

2009.04.15

1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	FCC Rules	Test Results
Conducted Disturbance	15.207	Pass
Radiated disturbance	15.209	Pass
Occupied Bandwidth	15.249	Pass
Band Edges	15.249	Pass
Antenna Requirement	15.203	Pass

2. GENERAL INFORMATION

2.1. Report information

- 2.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.
- 2.1.2. The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 2.1.3. Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at Bldg. of Metrology & Quality Inspection, Longzhu Road, Nanshan District, Shenzhen, Guangdong, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Committee for Laboratories (**CNAS**) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is L0579.

The Laboratory is listed in the United States of American Federal Communications Commission (**FCC**), and the registration number are **97379**(open area test site) and **274801**(semi anechoic chamber).

The Laboratory is listed in Voluntary Control Council for Interference by Information Technology Equipment (**VCCI**), and the registration number are **R-1974**(open area test site) , **R-1966**(semi anechoic chamber),**C-2117**(mains ports conducted interference measurement) and **T-180**(telecommunication ports conducted interference measurement).

The Laboratory is registered to perform emission tests with Industry Canada (**IC**), and the registration number is **IC4174**.

TUV Rhineland accredits the Laboratory for conformance to IEC and EN standards, the registration number is **E2024086Z02**.

2.3. Measurement Uncertainty

Conducted Disturbance : 9kHz~30MHz 3.5dB

Radiated Disturbance: 30MHz~1000MHz 4.5dB
1GHz~18GHz 4.6dB

3. PRODUCT DESCRIPTION

3.1. EUT Description

Description	: Wireless Transceiver
Manufacturer	: TAIDEN INDUSTRIAL CO.,LTD.
Model Number	: HCS-6100RF
Input Power	: HCS-6100RF is powered by HCS-6000MCP2 (HCS-6000MCP2 input: AC 110-120 V, 60 Hz).
Frequency Band	: 2405MHz-2450MHz
Channels	: 10 channels, channel space: 5MHz
Bandwidth	: 3MHz
Modulation	DSSS
Antenna Designation	: integrated

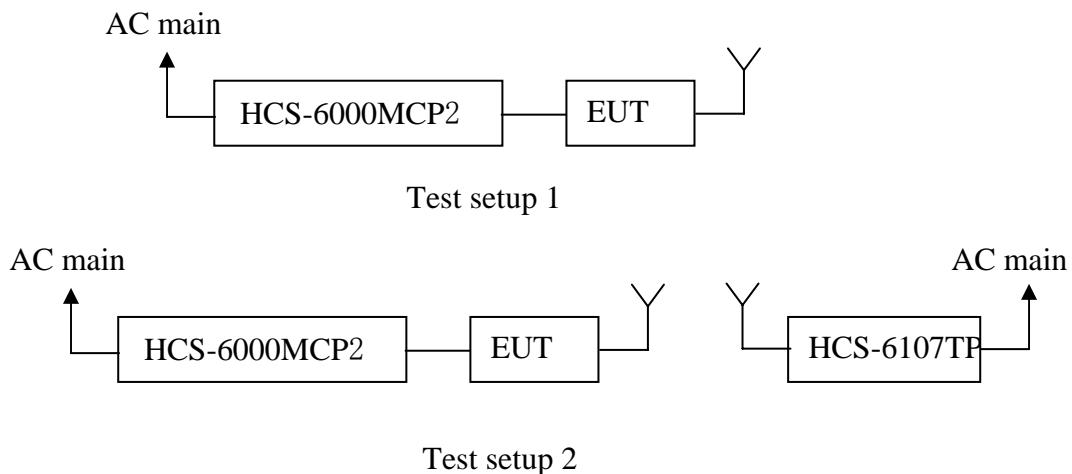
Remark: Intelligent Control System Main Unit HCS-6000MCP2 and Wireless Transceiver HCS-6100RF compose Intelligent Central Control System. HCS-6000MCP2 receives the control command from the HCS-6100RF(which receive command from HCS-6107TP by radio frequency (RF)) by the RS-422 port, after logic operation which is set by the user, and then send the control command by RS-485 port, RS-232 port, I/O port, IR output port and Relay. At the same time, it can send the status of the control unit to the HCS-6107TP by HCS-6100RF. HCS-6100RF received data from Central Control System main unit. Then the Radio Module in HCS-6100RF transforms the data into RF signal and transmits it by the antenna.

HCS-6100RF is powered and controlled by HCS-6000MCP2 and can't work alone. Therefore HCS-6000MCP2 and HCS-6100RF are tested together. In this application, HCS-4100MTB acts as a support peripheral.

3.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: WGV6100RF filing to comply with Section 15.249 of the FCC Part 15, Subpart C Rules.

3.3. Block Diagram of EUT Configuration



Remark: The Widescreen Touch Panel HCS-6107TP, Intelligent Central Control System main unit HCS-6000MCP2 and Wireless Transceiver HCS-6100RF compose the full system.

3.4. Operating Condition of EUT

- Mode1: Transmitting at 2405MHz (test setup1)
- Mode2: Transmitting at 2430MHz (test setup1)
- Mode3: Transmitting at 2450MHz (test setup1)
- Mode4: Communication (test setup 2)

3.5. Special Accessories

Not available for this EUT intended for grant.

3.6. Equipment Modifications

Not available for this EUT intended for grant.

3.7. Support Equipment List

Not available.

3.8. Test Conditions

Date of test: Mar12.-Apr.15, 2009

Date of EUT Receive: Sep.12, 2008

Temperature: 23-26 °C

Relative Humidity: 46-50%

4. TEST EQUIPMENT USED

4.1. Test Equipment Used to Measure Conducted Disturbance

Table 2 Conducted Disturbance Test Equipment

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
SB2603	EMI Test Receiver	Rohde & Schwarz	ESCS30	Jan.23, 2009	1 Year
SB3321	AMN	Rohde & Schwarz	ESH2-Z5	Jan.23, 2009	1 Year
SB2604	AMN	Rohde & Schwarz	ESH3-Z5	Jan.23, 2009	1 Year

4.2. Test Equipment Used to Measure Radiated Disturbance and bandwidth

Table 3 Radiated Disturbance Test Equipment

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
SB3436	EMI Test Receiver	Rohde & Schwarz	ESI26	Jan.23, 2009	1 Year
SB3440	Bilog Antenna	Chase	CBL6112B	Jan.23, 2009	1 Year
SB3435	Horn Antenna	Rohde & Schwarz	HF906	Jan.23, 2009	1 Year
SB3435/01	Amplifier(1-18GHz)	Rohde & Schwarz	---	Jan.23, 2009	1 Year

5. CONDUCTED DISTURBANCE TEST

5.1. Test Standard and Limit

5.1.1. Test Standard

FCC Part 15 15.207

5.1.2. Test Limit

Table 4 Conducted Disturbance Test Limit (Class B)

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

- The lower limit shall apply at the transition frequency.

5.2. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions form both sides of AC line. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

5.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

5.4. Test Data

The test was performed on HCS-6000MCP2 Main Unit. The worst case is Communication mode. The follow was shown the worst data.

Table 5 Conducted Disturbance Test Data

Model: HCS-6000MCP2

Mode: 4

Frequency (MHz)	Correction Factor (dB)	Line			Average		
		Quasi-Peak	Reading (dB μ V)	Emission Level (dB μ V)	Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)
0.150	10.0	5.2	15.2	66	1.5	11.5	56
1.235	10.0	6.3	16.3	56	2.7	12.7	46
3.830	10.0	4.8	14.8	56	1.3	11.3	46
14.225	10.0	16.2	26.2	60	9.4	19.4	50
16.000	10.0	19.6	29.6	60	17.3	27.3	50
21.330	10.0	19.8	29.8	60	16.1	26.1	50

REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)
 2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)
 3. The other emission levels were very low against the limit.

Table 6 Conducted Disturbance Test Data

Model: HCS-6000MCP2

Mode: 4

Frequency (MHz)	Correction Factor (dB)	Neutral			Average		
		Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)	Reading (dB μ V)	Emission Level (dB μ V)	Limits (dB μ V)
0.242	10.0	5.9	15.9	62.0	2.8	12.8	52.0
3.565	10.0	4.5	14.5	56	1.2	11.2	46
4.030	10.0	4.9	14.9	56	1.4	11.4	46
14.225	10.0	14.8	24.8	60	7.2	17.2	50
16.000	10.0	20.8	30.8	60	18.6	28.6	50
21.330	10.0	20.2	30.2	60	14.7	24.7	50

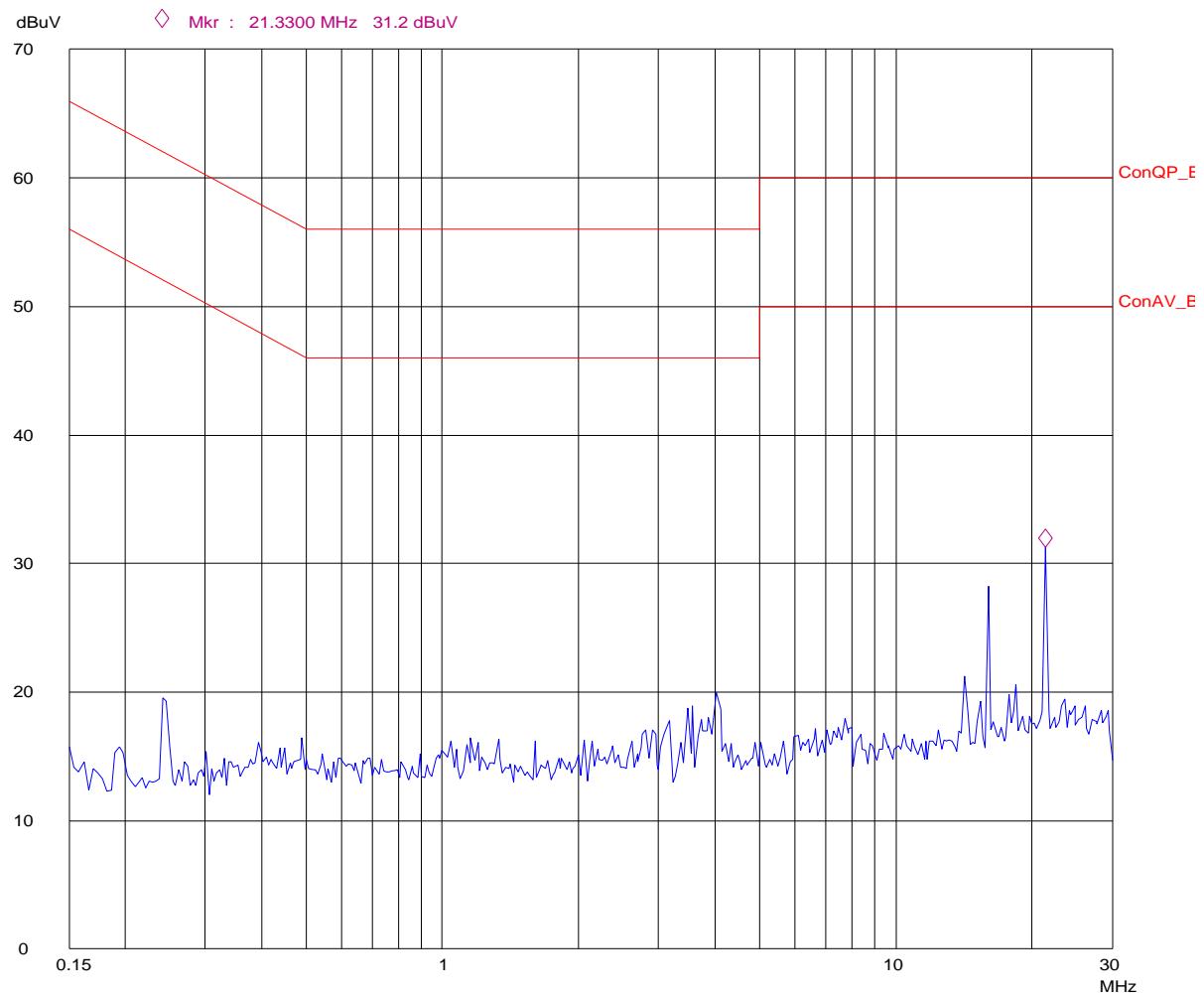
REMARKS: 1. Emission level(dBuV)=Read Value(dBuV) + Correction Factor(dB)

2. Correction Factor(dB) =LISN Factor (dB) + Cable Factor (dB)+Limiter Factor(dB)

3. The other emission levels were very low against the limit.

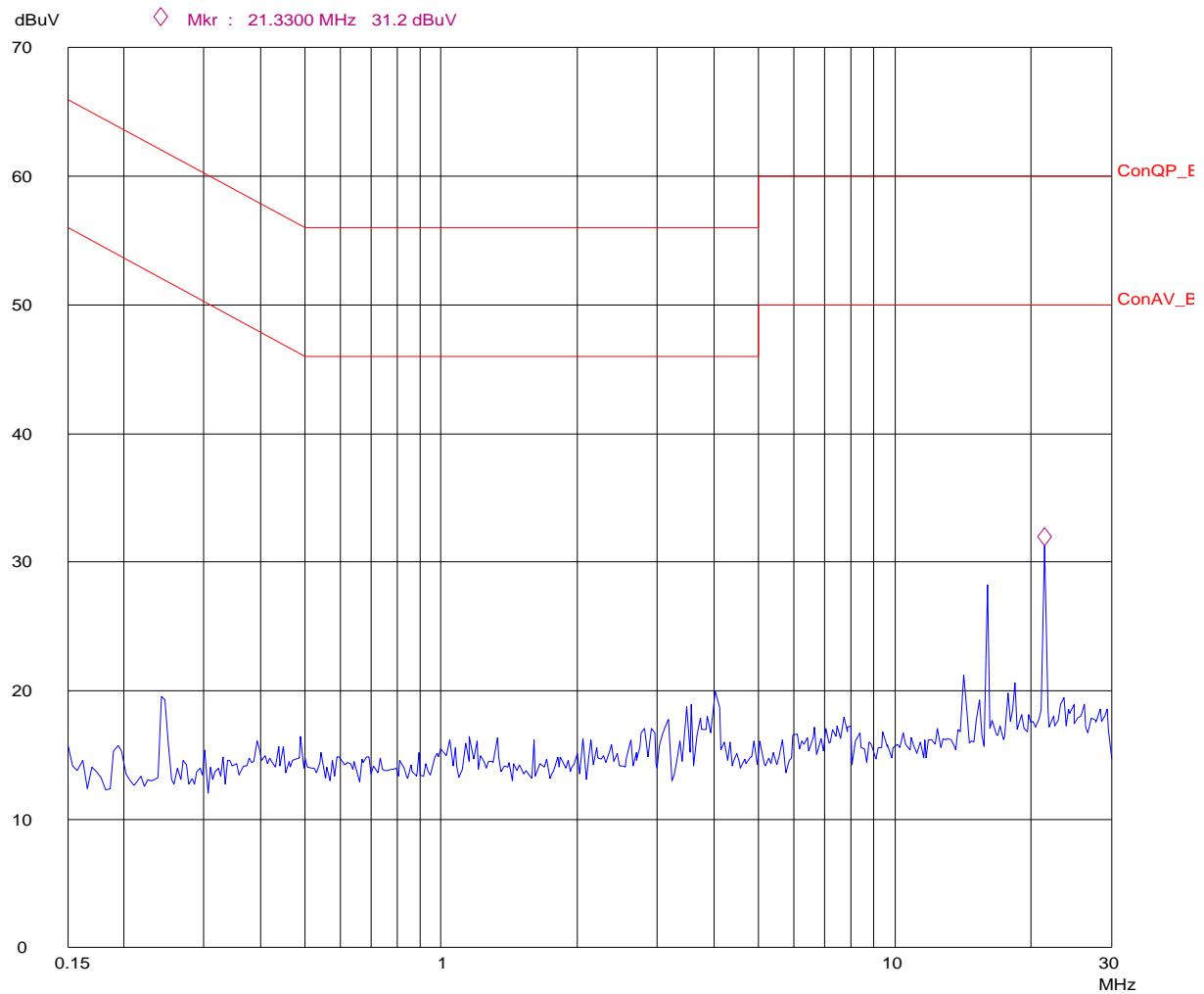
Conducted Disturbance

EUT: M/N:HCS-6000MCP2
Op Cond: Communication
Test Spec: N
Comment: AC 120/60Hz



Conducted Disturbance

EUT: M/N:HCS-6000MCP2
Op Cond: Communication
Test Spec: N
Comment: AC 120/60Hz



6. RADIATED DISTURBANCE TEST

6.1. Test Standard and Limit

6.1.1. Test Standard

FCC Part 15 15.249

6.1.2. Test Limit

Table 7 Radiated Disturbance Test Limit (Class B)

FREQUENCY MHz	FIELD STRENGTHS LIMITS (μ V/m)	FIELD STRENGTHS LIMITS dB (μ V/m)
Fundamental	50000	94.0
Harmonics	500	54.0
30 ~ 88	100	40.0
88 ~ 216	150	43.5
216 ~ 960	200	46.0
960 ~	500	54.0

* The lower limit shall apply at the transition frequency.

* The test distance is 3m.

6.2. Test Procedure

The EUT is placed on a turntable, which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and13 of ANSI C63.4-2003.

The RBW of the EMI test receiver is :

30~1000MHz 120KHz
1000-18000MHz 1MHz

6.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

6.4. Test Data

The test data listed in following tables are given in the worst case in the band from 30MHz to 24.5GHz. The other emission levels were less than the limit 20dB.

Table 8 Radiated Disturbance Test Data

Model number: HCS-6000MCP2 + HCS-6100RF							
Test Mode:1							
Frequency (MHz)	Polarization	Reading Value (dB μ V)	Correction Factor (dB)	Antenna Factor (dB/m)	Emission Level dB (μ V/m)	Limits dB (μ V/m)	Note
78.597	H	26.9	1.4	8.96	37.3	40	QP
442.104	H	22.9	3.4	16.86	43.2	46	QP
584.008	H	20.2	3.9	18.57	42.7	46	QP
78.597	V	27.1	1.4	8.96	37.5	40	QP
249.659	V	26.4	2.7	12.73	41.8	46	QP
2405.060	H	78.5	-38.1	28.5	68.9	114.0	Fundamental PK
2405.060	H	66.9	-38.1	28.5	57.3	94.0	Fundamental AV
2405.060	V	86.1	-38.1	28.5	76.5	114.0	Fundamental PK
2405.060	V	74.4	-38.1	28.5	64.8	94.0	Fundamental AV

Note: 1. Emission level(dBuV/m)=Reading Value(dBuV) + Correction Factor(dB/m)+ Antenna Factor (dB/m)

2. Correction Factor(dB/m) = Cable Factor (dB)+Amplifier Factor(dB)

3. The other emission levels were less than the limit 20dB

Table 9 Radiated Disturbance Test Data

Model number: HCS-6000MCP2 + HCS-6100RF							
Test Mode:2							
Frequency (MHz)	Polarization	Reading Value (dB μ V)	Correction Factor (dB)	Antenna Factor (dB/m)	Emission Level dB (μ V/m)	Limits dB (μ V/m)	Note
79.007	H	26.7	1.4	8.96	37.1	40	QP
442.104	H	23.2	3.4	16.86	43.5	46	QP
584.01	H	19.4	3.9	18.57	41.9	46	QP
79.007	V	27.0	1.4	8.96	37.4	40	QP
249.701	V	26.6	2.7	12.73	42	46	QP
2430.010	H	74.8	-38.1	28.5	65.2	114.0	Fundamental PK
2430.010	H	66.2	-38.1	28.5	56.6	94.0	Fundamental AV
2430.010	H	87.0	-38.1	28.5	77.4	114.0	Fundamental PK
2430.010	V	73.9	-38.1	28.5	64.3	94.0	Fundamental AV
4859.989	H	61.0	-35.6	33.3	58.7	74.0	Harmonics PK
4859.989	H	53.3	-35.6	33.3	51.0	54.0	Harmonics AV
4859.989	V	61.7	-35.6	33.3	59.4	74.0	Harmonics PK
4859.989	V	53.0	-35.6	33.3	50.7	54.0	Harmonics AV

Note: 1. Emission level(dBuV/m)=Reading Value(dBuV) + Correction Factor(dB/m)+ Antenna Factor (dB/m)

2. Correction Factor(dB/m) = Cable Factor (dB)+Amplifier Factor(dB)

3. The other emission levels were less than the limit 20dB

Table 10 Radiated Disturbance Test Data

Model number: HCS-6000MCP2 + HCS-6100RF							
Test Mode:3							
Frequency (MHz)	Polarization	Reading Value (dB μ V)	Correction Factor (dB)	Antenna Factor (dB/m)	Emission Level dB (μ V/m)	Limits dB (μ V/m)	Note
79.01	H	27.4	1.4	8.96	37.8	40	QP
442.1	H	22.6	3.4	16.86	42.9	46	QP
584.008	H	20.0	3.9	18.57	42.5	46	QP
79.01	V	26.9	1.4	8.96	37.3	40	QP
249.655	V	26.4	2.7	12.73	41.8	46	QP
2450.130	H	74.8	-38.1	28.5	65.2	114.0	Fundamental PK
2450.130	H	69.0	-38.1	28.5	59.4	94.0	Fundamental AV
2450.130	V	73.7	-38.1	28.5	64.1	114.0	Fundamental PK
2450.130	V	67.7	-38.1	28.5	58.1	94.0	Fundamental AV
4900.130	H	55.7	-35.6	33.3	53.4	74.0	Harmonics PK
4900.130	H	51.6	-35.6	33.3	49.3	54.0	Harmonics AV
4900.183	V	59.7	-35.6	33.3	57.4	74.0	Harmonics PK
4900.183	V	53.9	-35.6	33.3	51.6	54.0	Harmonics AV

Note: 1. Emission level(dBuV/m)=Reading Value(dBuV) + Correction Factor(dB/m)+ Antenna Factor (dB/m)

2. Correction Factor(dB/m) = Cable Factor (dB)+Amplifier Factor(dB)

3. The other emission levels were less than the limit 20dB

Table 11 **Restricted Band Radiated Emission Data**

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
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	2655 - 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	
12.51975	-	3345.8 - 3358	
12.52025	240 - 285	3600 - 4400	
12.57675	-		
12.57725			
13.36 - 13.41			

All the emission of the above band was less than the limit 20dB.

7. OCCUPIED BANDWIDTH

7.1. Test Standard and Limit

7.1.1. Test Standard

FCC Part 15

7.2. Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation
3. Set EMI test receiver(ESIB26) Center Frequency = fundamental frequency, RBW=10kHz, VBW= 30kHz, Span=20MHz.
4. Set EMI test receiver(ESIB26) Max hold. Mark peak, -20dB.

7.3. Test Arrangement

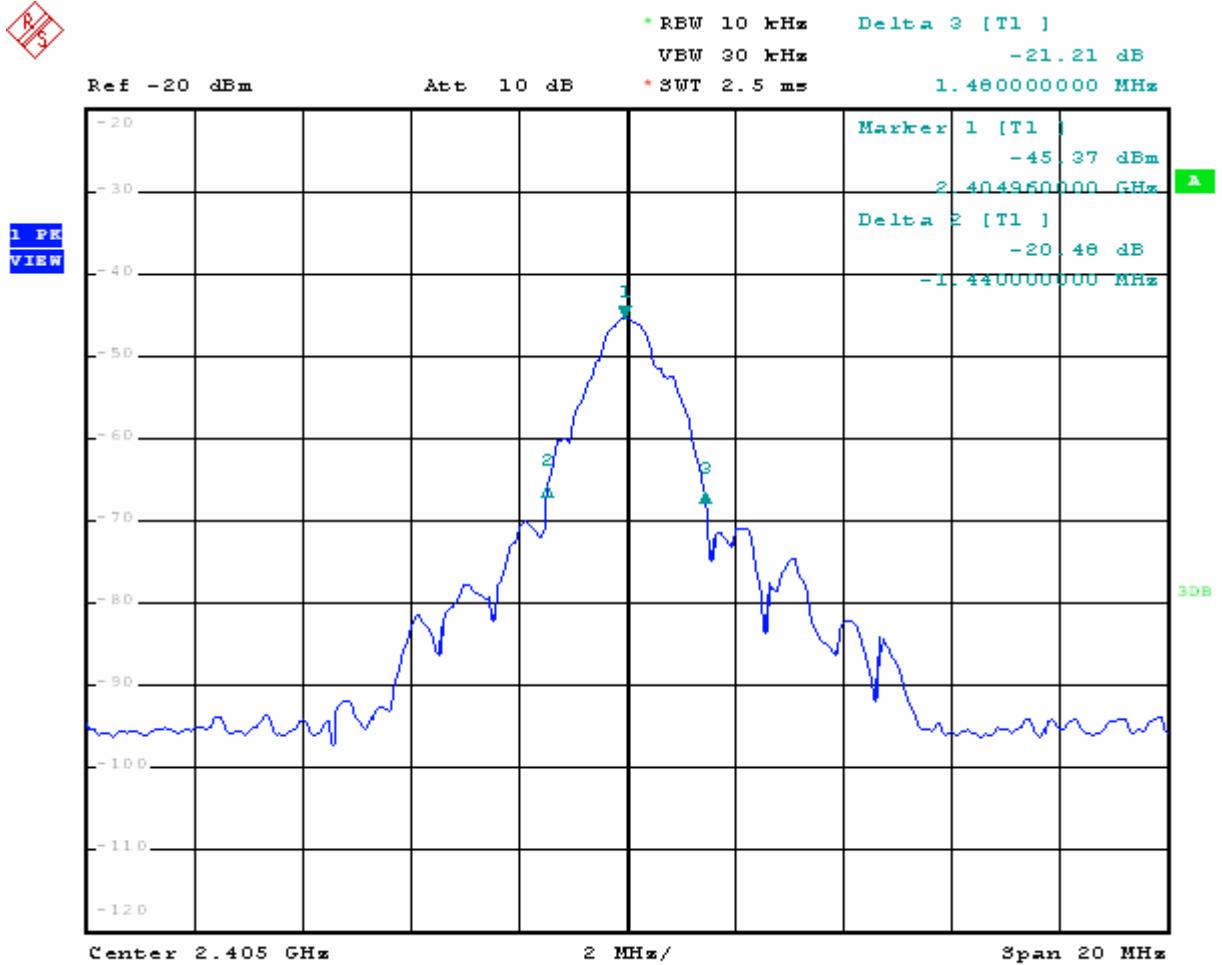
The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

7.4. Test Data

The test was performed with HCS-6100RF.

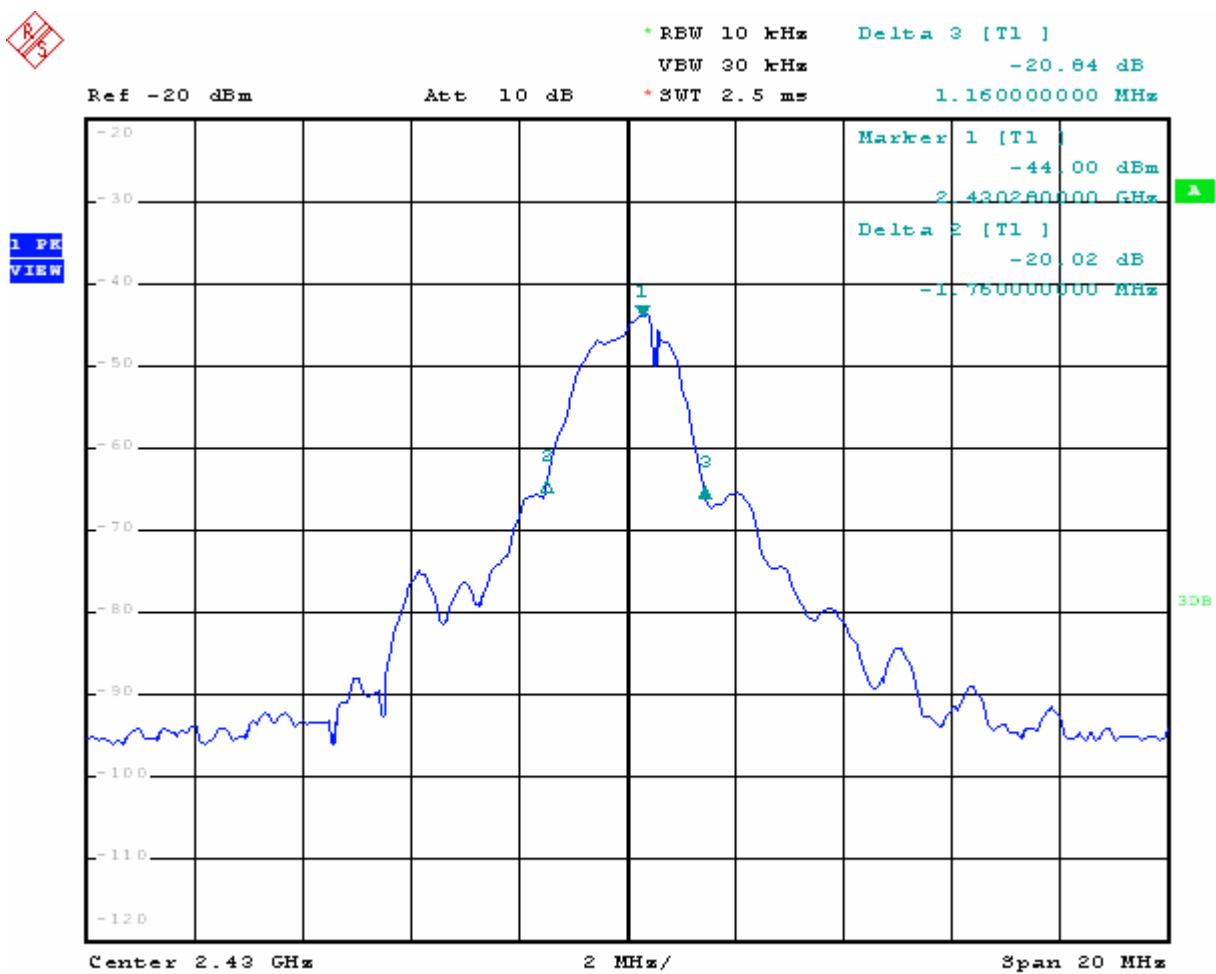
Table 12 20dBC Bandwidth Test Result

Channel	Frequency (MHz)	20 dB Bandwidth
Low	2405	2.92MHz
Mid	2430	2.92MHz
High	2450	2.88MHz



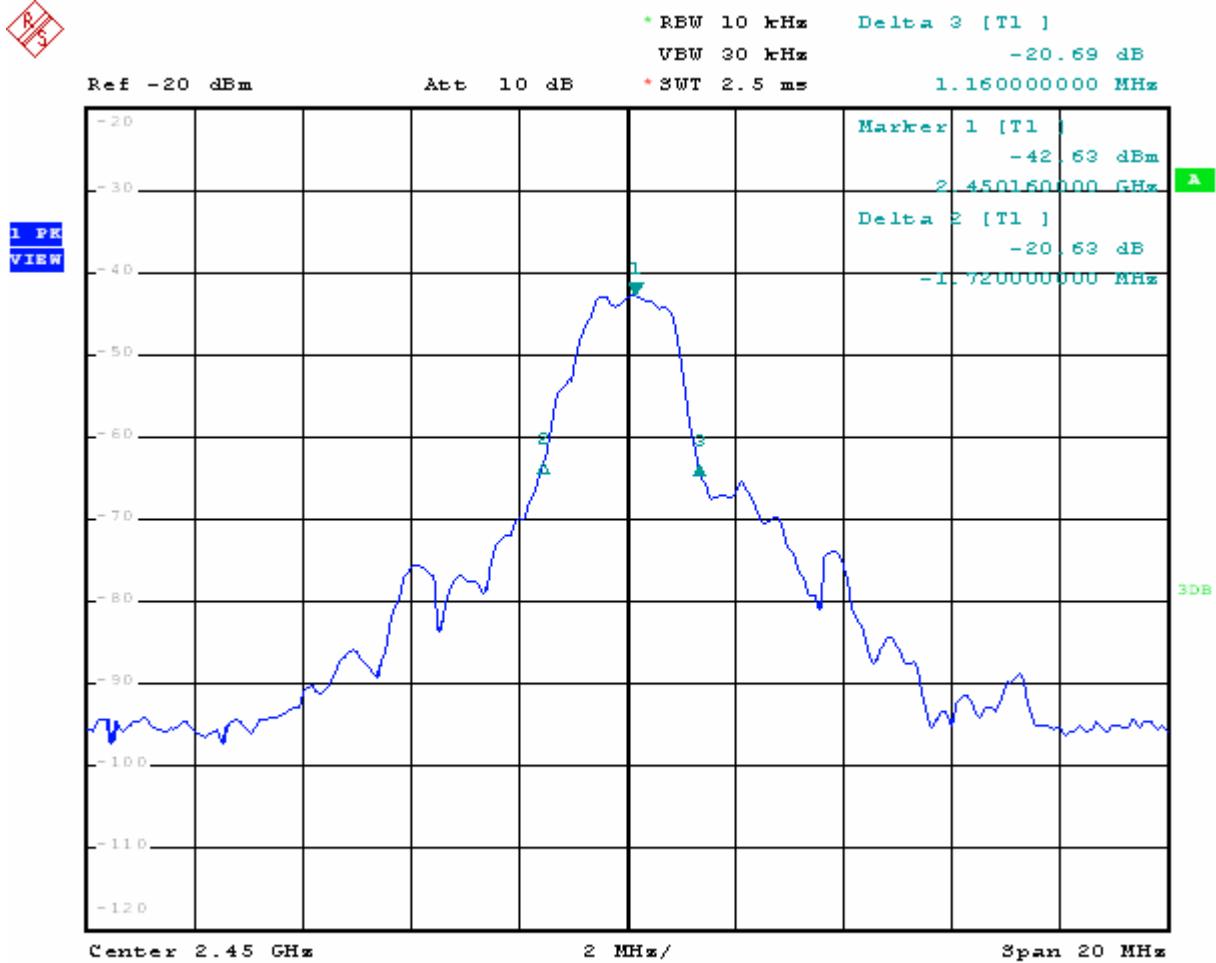
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A5



Date: 29.APR.2009 03:45:44

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Date: 29.APR.2009 03:52:34

8. BAND EDGE

8.1. Test Standard and Limit

8.1.1. Test Standard

FCC Part 15 15.249

8.2. Band Edge FCC 15.249(d) Limit

Emission 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.

8.3. Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instruments. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
3. Measure the highest amplitude appearing on spectral display and set it as reference level. Plot the graph with marking the highest point and edge frequency.
4. Repeat above procedures until all measured frequencies were complete.

8.4. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

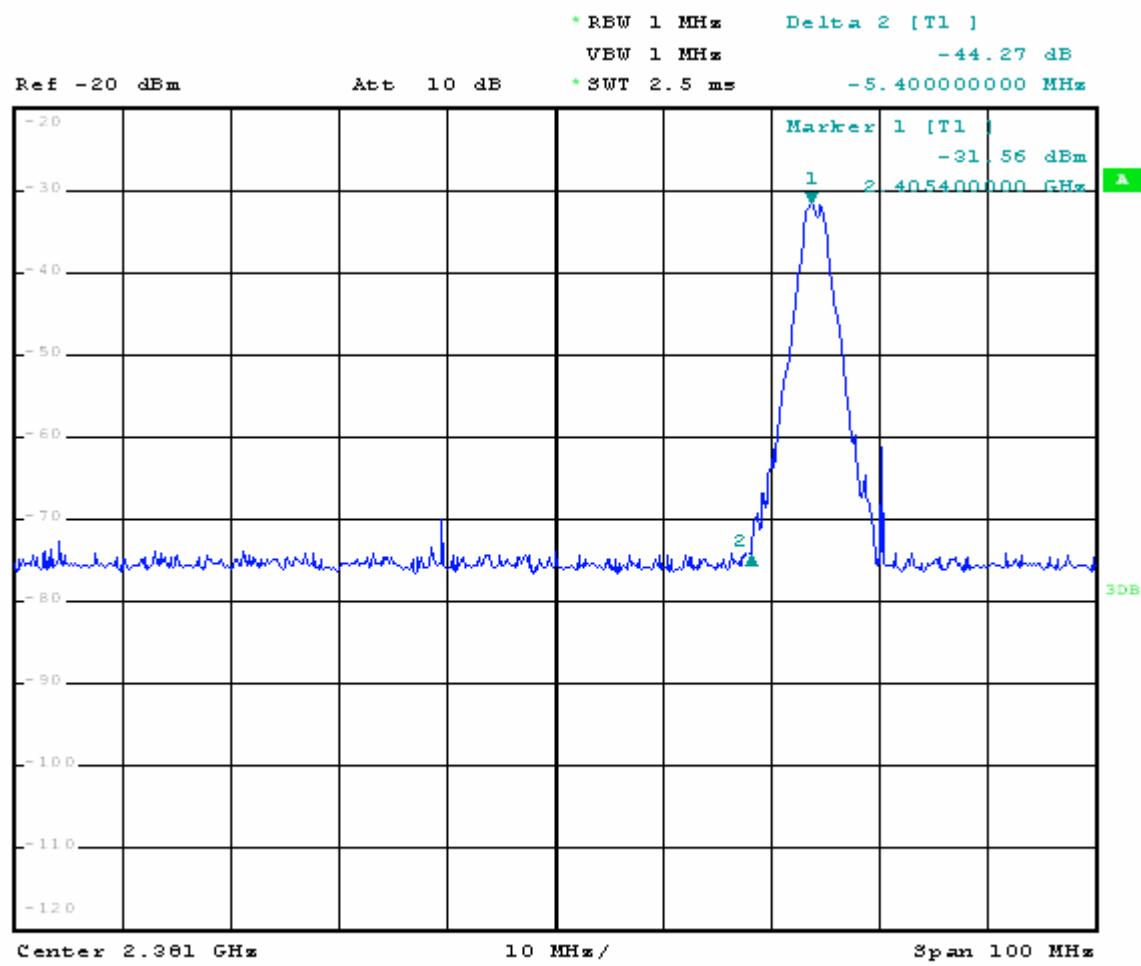
8.5. Test Data

All the emission outside 2405 MHz to 2450MHz is lower than 54 dB (μ V/m).

NOTE 1: The band edge emission plot of on page 25 low frequency shows 44.3dBc. The emission of carrier strength list in the test result of low frequency is 68.9dBuV/m (PK), so the maximum field strength in restrict band is $68.9-44.3=24.6$ dBuV/m which is under 54dBuV/m limit.

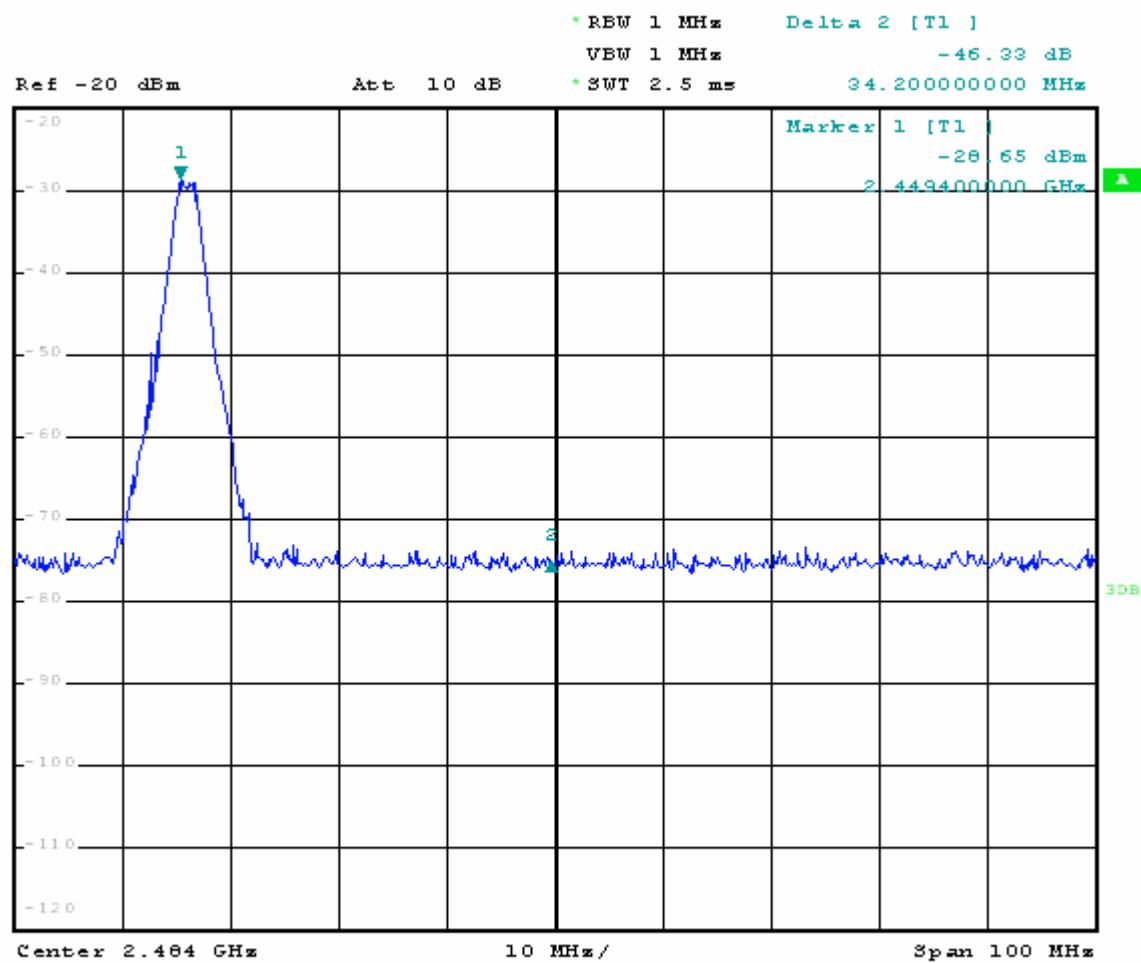
NOTE 2: The band edge emission plot of on page 26 high frequency shows 46.3dBc. The emission of carrier strength list in the test result of high frequency is 65.2dBuV/m (PK), so the maximum field strength in restrict band is $65.2-46.3=18.9$ dBuV/m which is under 54dBuV/m limit.

R
3



Date: 29.APR.2009 04:24:46

R
3



Date: 29.APR.2009 04:17:31

9. ANTENNA REQUIREMENT

According to Section 15.203, 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 EUT has a built in antenna which is integrated on the PCB, this is permanently attached antenna and meets the requirements of this section.

APPENDIX I TEST PHOTO

Photo 1 Conducted Emission Test



Photo 2 Conducted Emission Test

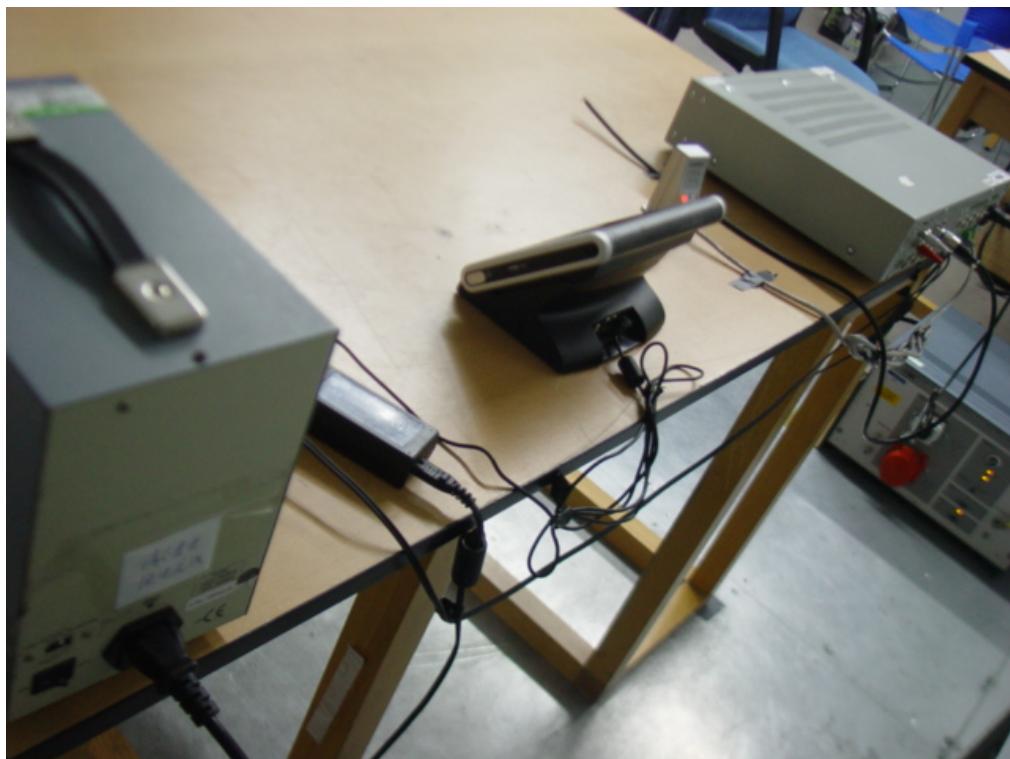


Photo 3 Radiated Emission Test

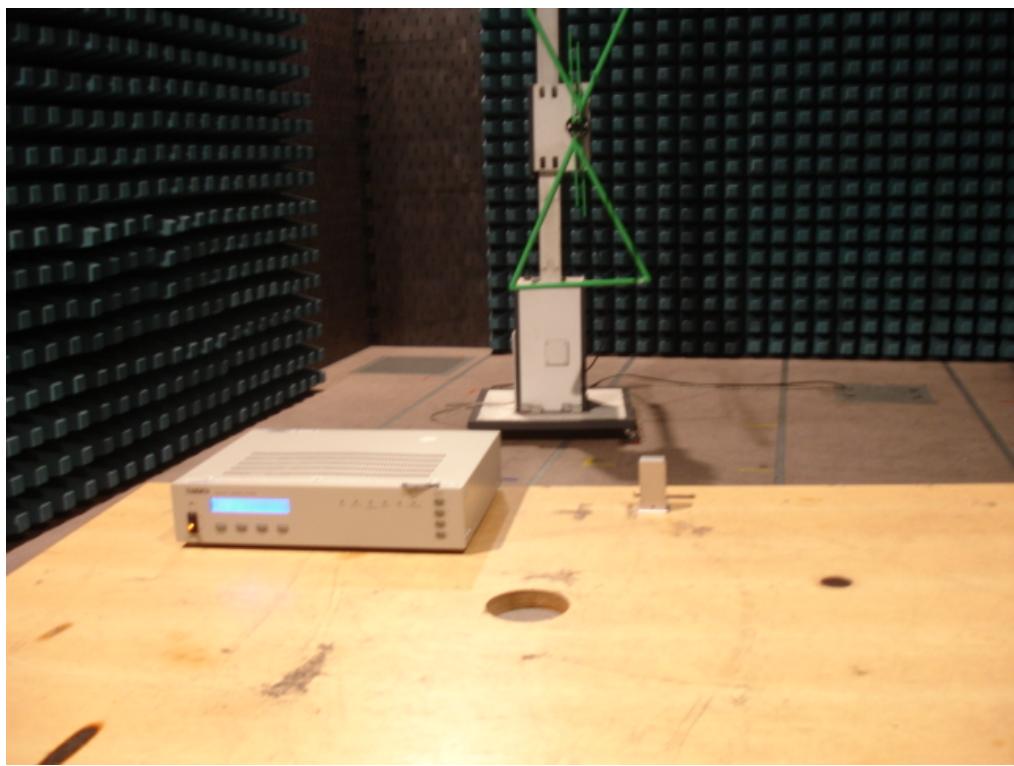
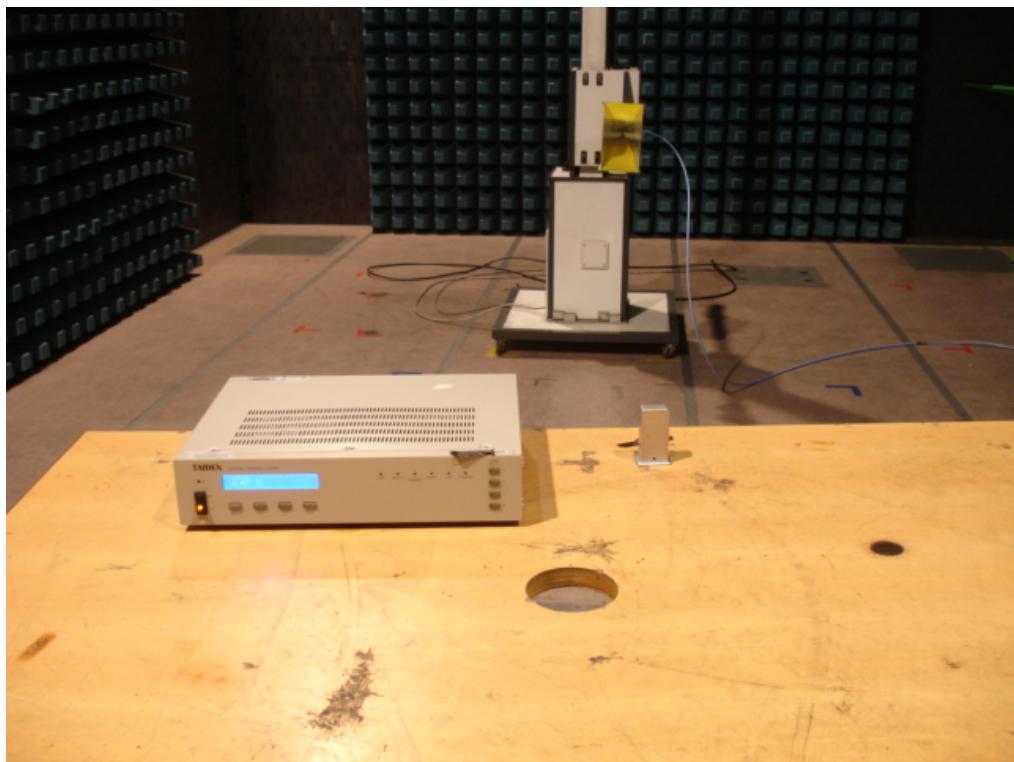


Photo 4 Radiated Emission Test



APPENDIX II EUT PHOTO

Photo 1 Appearance of HCS-6100RF



Photo 2 Appearance of HCS-6100RF



Photo 3 Inside of HCS-6100RF

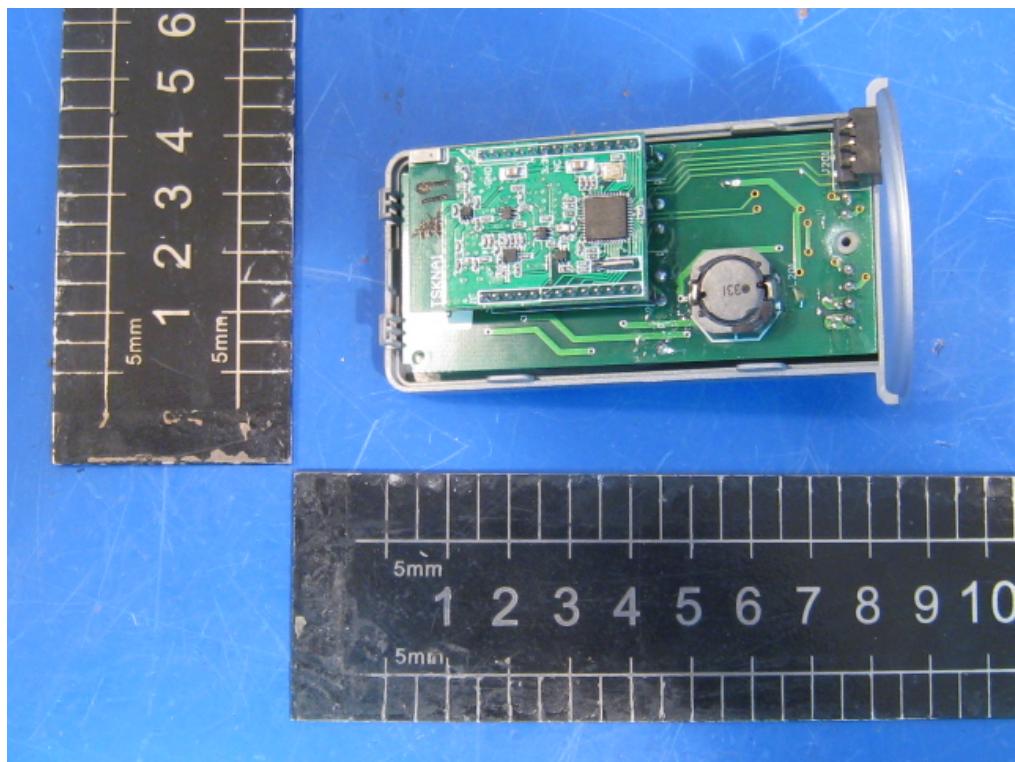


Photo 4 Inside of HCS-6100RF

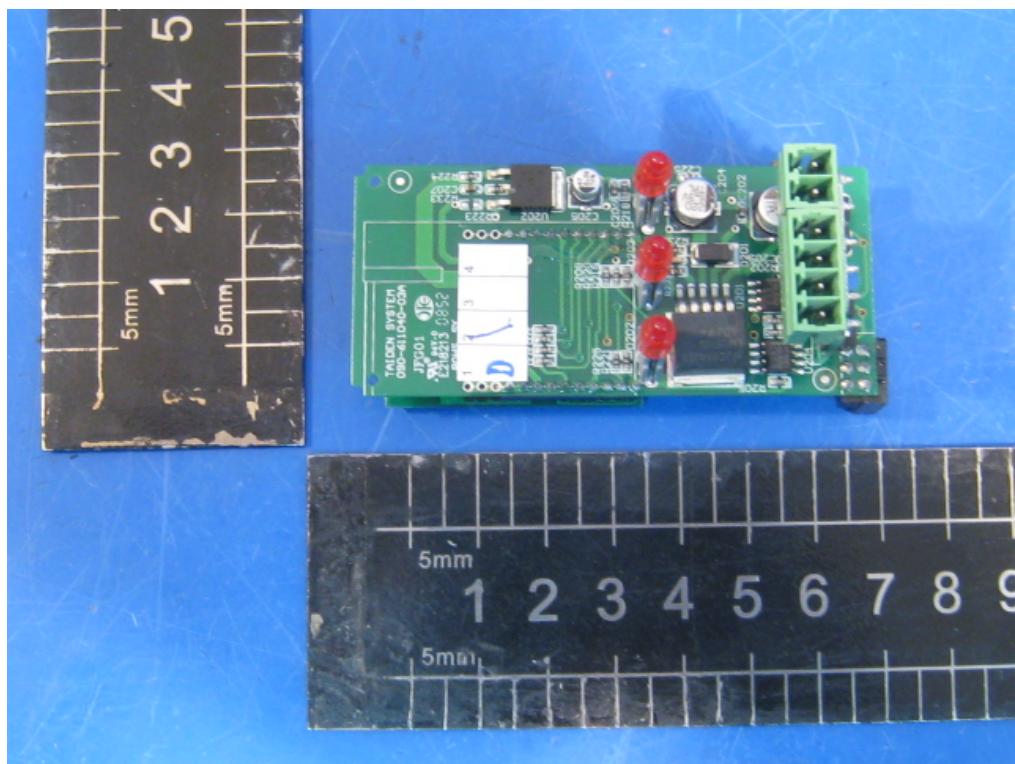


Photo 5 Inside of HCS-6100RF

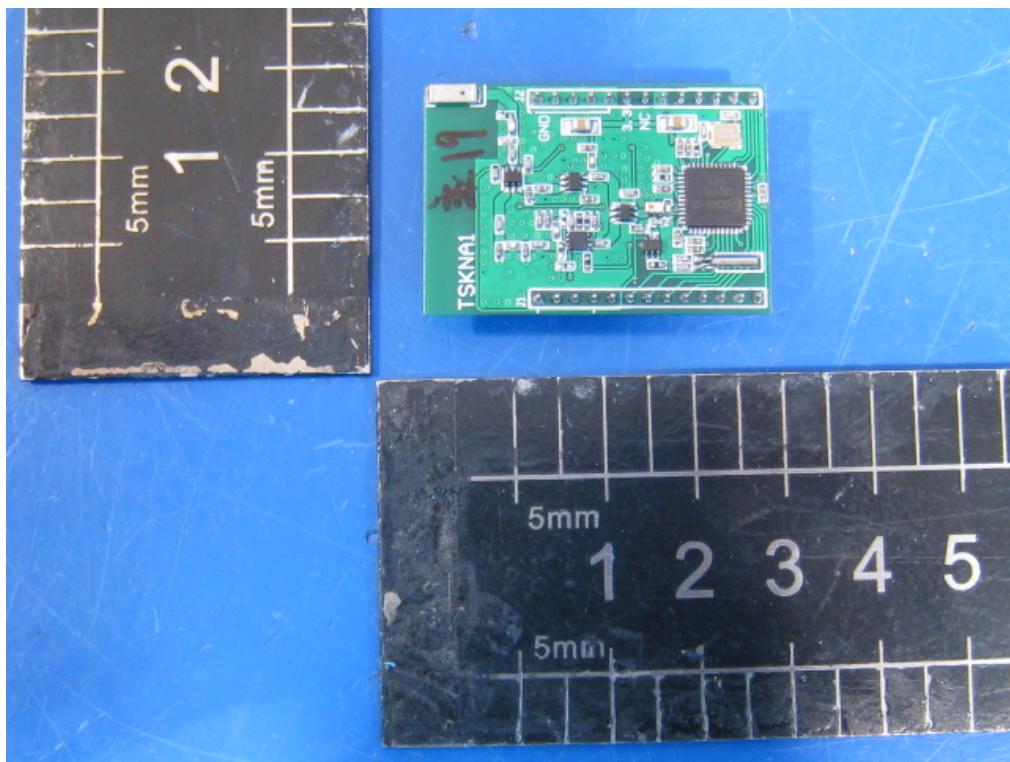


Photo 6 Inside of HCS-6100RF

