



# FCC RF Test Report

**APPLICANT** : HTC Corporation  
**EQUIPMENT** : Pocket PC Phone  
**MODEL NAME** : PB81100  
**FCC ID** : NM8PB81100  
**STANDARD** : FCC Part 15 Subpart C §15.247  
**CLASSIFICATION** : Digital Transmission System (DTS)

The product was received on Aug. 12, 2009 and completely tested on Sep. 26, 2009. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Roy Wu / Manager



## **SPORTON INTERNATIONAL INC.**

No. 52, Hwa Ya 1<sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.



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### SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	A8.2(a)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.2	15.247(b)	A8.4	Power Output	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(d)	A8.5	Frequency Band Edges	$\leq 20\text{dBc}$	Pass	-
3.4	15.247(d)	A8.5	Spurious Emission	$< 20\text{ dBc}$	Pass	-
3.5	15.247(e)	A8.2(b)	Power Spectral Density	$\leq 8\text{dBm}$	Pass	-
3.6	15.207	Gen 7.2.2	AC Conducted Emission	15.207(a)	Pass	Under limit 10.1 dB at 0.462 MHz
3.7	15.247(d)	A8.5	Transmitter Radiated Emission	15.209(a) & 15.247(d)	Pass	Under limit 1.06 dB at 2389.99 MHz
3.8	15.203 & 15.247(b)	A8.4	Antenna Requirement	N/A	Pass	-

# 1 General Description

## 1.1 Applicant

**HTC Corporation**

No. 23, Xinghua Rd., Taoyuan 330, Taiwan

## 1.2 Manufacturer

**HTC Corporation**

No. 23, Xinghua Rd., Taoyuan 330, Taiwan

## 1.3 Feature of Equipment Under Test

Product Feature & Specification	
<b>Equipment</b>	Pocket PC Phone
<b>Model Name</b>	PB81100
<b>Pocket PC Phone 1</b>	EUT with Camera 1
<b>Pocket PC Phone 2</b>	EUT with Camera 2
<b>FCC ID</b>	NM8PB81100
<b>Tx/Rx Frequency Range</b>	2400 MHz ~ 2483.5 MHz
<b>Number of Channels</b>	11
<b>Carrier Frequency of Each Channel</b>	$2412+(n-1)*5$ MHz; n=1~11
<b>Channel Spacing</b>	5 MHz
<b>Maximum Output Power to Antenna</b>	802.11b: 19.11 dBm / 81.47 mW 802.11g : 19.03 dBm / 79.98 mW
<b>Antenna Type</b>	PIFA Antenna with gain 0.5 dBi
<b>Type of Modulation</b>	802.11b : DSSS (BPSK / QPSK / CCK) 802.11g : OFDM (BPSK / QPSK / 16QAM / 64QAM)
<b>EUT Stage</b>	Identical Prototype

**Remark:**

1. For other wireless features of this EUT, test report will be issued separately.
2. This test report recorded only product characteristics and test results of Digital Transmission System (DTS).

### 1.4 Testing Site

<b>Test Site</b>	SPORTON INTERNATIONAL INC.		
<b>Test Site Location</b>	No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-3273456 / FAX: +886-3-3284978		
<b>Test Site No.</b>	<b>Sporton Site No.</b>		<b>FCC/IC Registration No.</b>
	CO05-HY	03CH07-HY	TW1022/4086B-1

### 1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 (Measurement Guidelines of DTS)
- ♦ ANSI C63.4-2003
- ♦ IC RSS-210 Issue 7

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B (DoC), recorded in a separate test report.



## 1.6 Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	GPS Station	T&E	GS-50	N/A	N/A	Unshielded, 1.8 m
3.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
4.	Notebook	Acer	MS2229	QDS-BRCM1018	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Notebook	DELL	Vostro 1510	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	Bluetooth Earphone	Nokia	BH-100	PYA1YH	N/A	N/A
7.	LCD Monitor	Lenovo	6135-AB1	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
8.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A

## 2 Test Configuration of Equipment Under Test

### 2.1 RF Power

Preliminary tests were performed in different data rate and recorded the RF power output in the following table:

802.11b RF Power (dBm)					
Channel	Frequency (MHz)	Data Rate			
		1 Mbps	2 Mbps	5.5 Mbps	11 Mbps
CH 01	2412 MHz	19.11	18.93	19.08	19.10
CH 06	2437 MHz	18.61	18.59	18.59	18.64
CH 11	2462 MHz	18.65	18.53	18.64	18.62

802.11g RF Power (dBm)									
Channel	Frequency (MHz)	Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 01	2412 MHz	18.86	18.50	18.36	18.79	18.53	18.50	18.36	18.54
CH 06	2437 MHz	18.64	18.30	17.79	17.84	17.56	17.62	17.60	17.64
CH 11	2462 MHz	19.03	18.72	18.52	18.11	18.30	18.03	18.36	18.20

**Remark:**

1. The 802.11b data rates were set in 1 Mbps and 802.11g data rates were set in 6 Mbps for all the test cases, due to the highest RF output power.
2. The EUT is programmed to transmit signals continuously for all testing.

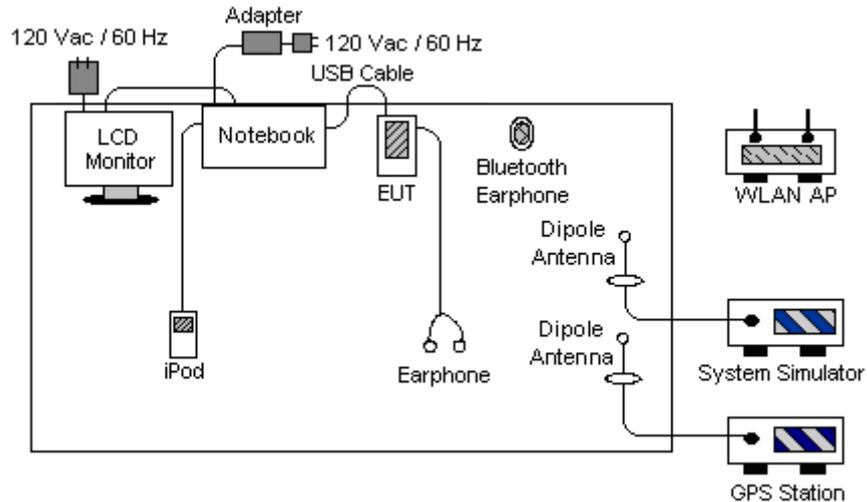
## 2.2 Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz), radiated emission (30 MHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). Pre-scanned tests were conducted to determine the final configuration from all possible combinations. The following tables are showing the test modes as the worst cases and recorded in this report.

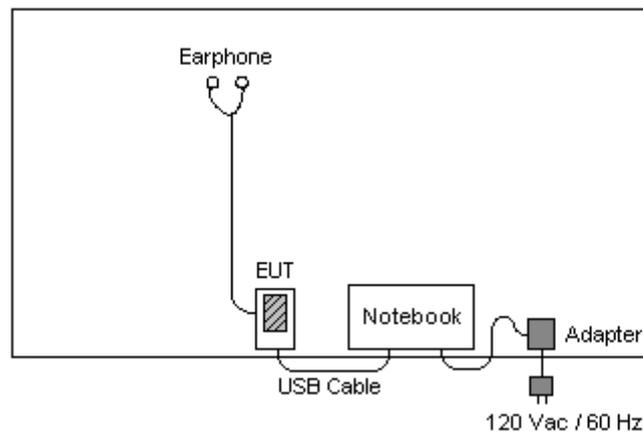
Test Cases		
Test Item	802.11b	802.11g
<b>Conducted TCs</b>	Mode 1 : CH01_2412 MHz Mode 2 : CH06_2437 MHz Mode 3 : CH11_2462 MHz	Mode 4 : CH01_2412 MHz Mode 5 : CH06_2437 MHz Mode 6 : CH11_2462 MHz
<b>Radiated TCs</b>	Mode 1 : CH01_2412 MHz for Pocket PC Phone 1 Mode 2 : CH06_2437 MHz for Pocket PC Phone 1 Mode 3 : CH11_2462 MHz for Pocket PC Phone 1	Mode 4 : CH01_2412 MHz for Pocket PC Phone 1 Mode 5 : CH06_2437 MHz for Pocket PC Phone 1 Mode 6 : CH11_2462 MHz for Pocket PC Phone 1 Mode 7 : CH01_2412 MHz for Pocket PC Phone 2
<b>AC Conducted Emission</b>	Mode 1 : Pocket PC Phone 1 + GSM850 Idle + Bluetooth Link + WLAN Link + GPS Rx + Camera + Earphone 1 + USB Cable (Link with Notebook) Mode 2 : Pocket PC Phone 2 + GSM850 Idle + Bluetooth Link + WLAN Link + GPS Rx + Camera + Earphone 1 + USB Cable (Link with Notebook)	
<b>Remark:</b> The worst case of conducted emission is mode 1; only the test data of it was reported.		

## 2.3 Connection Diagram of Test System

### <Conducted Emission>



### <Radiated Emission>



## 2.4 RF Utility

The programmed RF utility, "Remote 432X controller(serial).exe" was programmed by notebook to provide channel selection, power level, data rate and the application type. RF utility can send transmitting signal for all testing. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

### 3 Test Result

#### 3.1 6dB Bandwidth Measurement

##### 3.1.1 Limit of 6dB Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

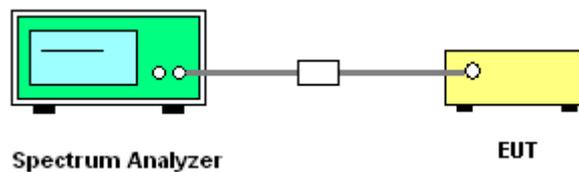
##### 3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

##### 3.1.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz.  
In order to make an accurate measurement, set the span greater than RBW. The 6 dB bandwidth must be greater than 500 kHz.
4. The marker-delta reading at this point is the 6 dB bandwidth of the emission.

##### 3.1.4 Test Setup



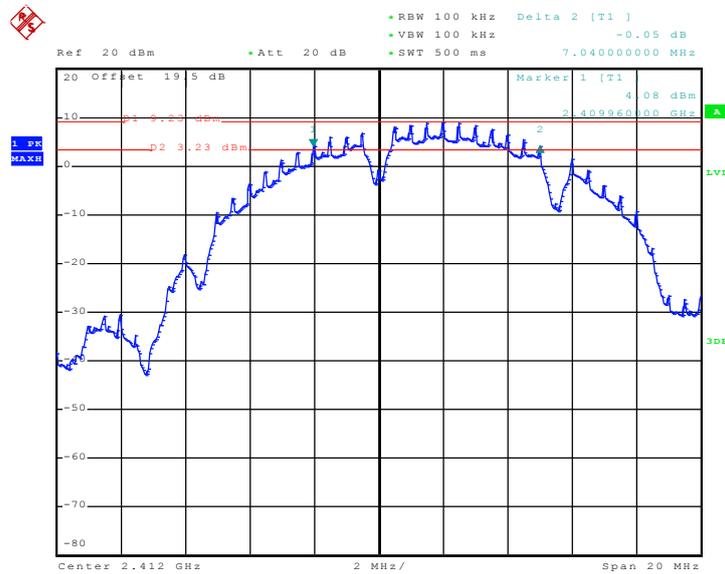


3.1.5 Test Result of 6dB Bandwidth

Test Mode :	Mode 1, 2, 3	Temperature :	26~28°C
Test Engineer :	Ken Hsu	Relative Humidity :	58~60%

Channel	Frequency (MHz)	802.11b 6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
01	2412	7.04	0.5	Pass
06	2437	7.04	0.5	Pass
11	2462	7.04	0.5	Pass

Mode 1 : 6 dB Bandwidth Plot on 802.11b Channel 01



Date: 25.SEP.2009 08:48:07

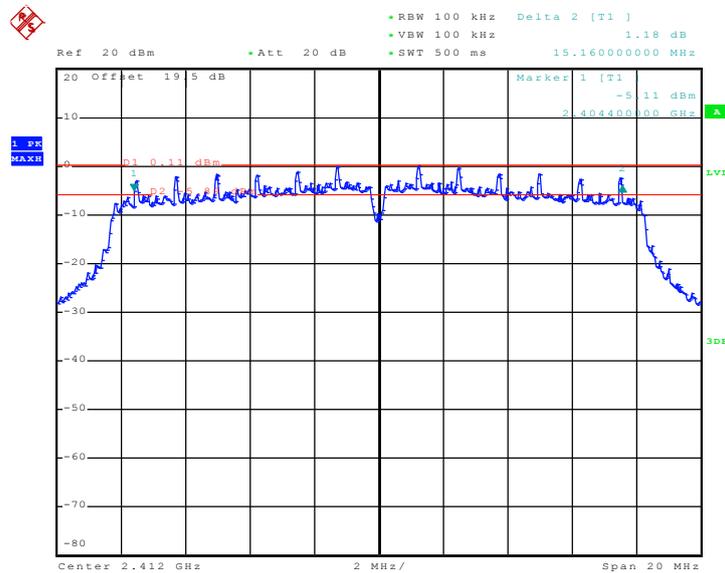




Test Mode :	Mode 4, 5, 6	Temperature :	26~28°C
Test Engineer :	Ken Hsu	Relative Humidity :	58~60%

Channel	Frequency (MHz)	802.11g 6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
01	2412	15.16	0.5	Pass
06	2437	15.16	0.5	Pass
11	2462	15.16	0.5	Pass

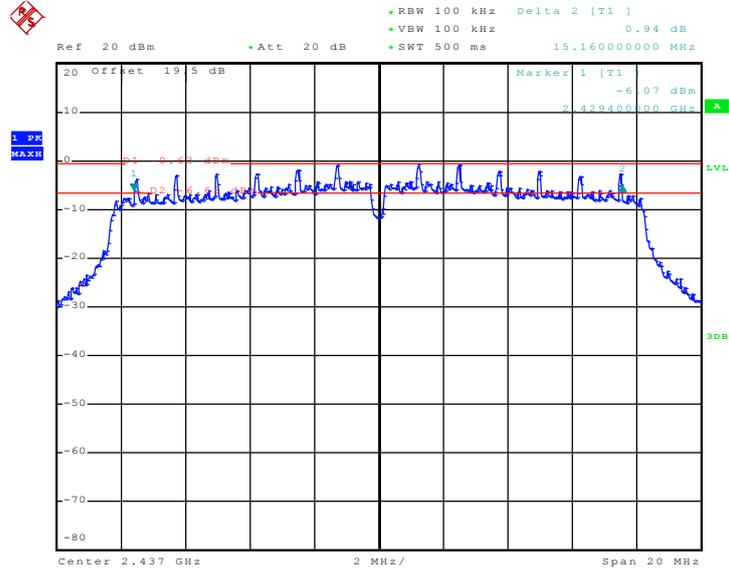
Mode 4 : 6 dB Bandwidth Plot on 802.11g Channel 01



Date: 25.SEP.2009 08:57:45

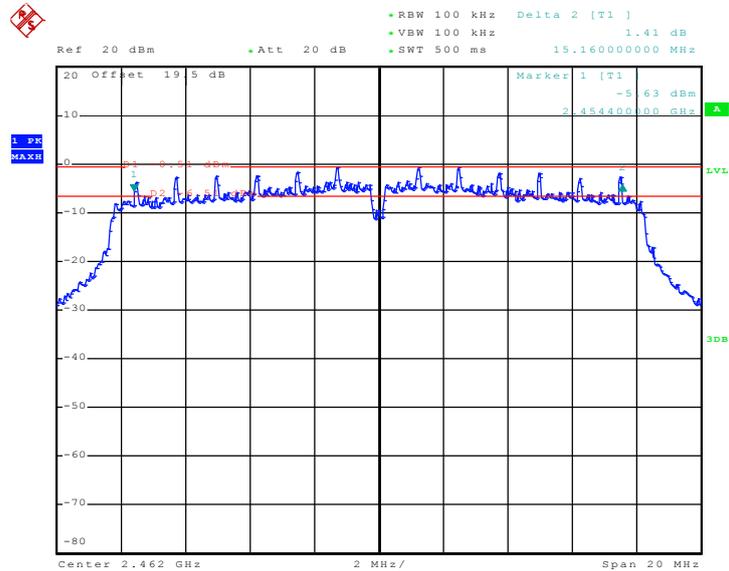


Mode 5 : 6 dB Bandwidth Plot on 802.11g Channel 06



Date: 25.SEP.2009 08:58:55

Mode 6 : 6 dB Bandwidth Plot on 802.11g Channel 11



Date: 25.SEP.2009 08:59:48

## 3.2 Output Power Measurement

### 3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

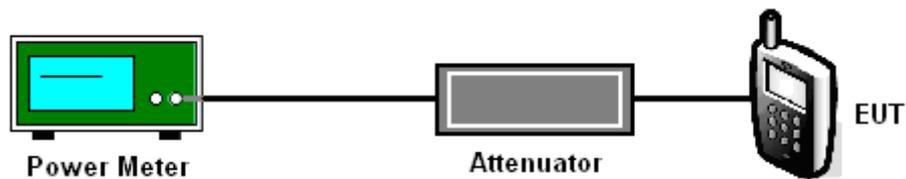
### 3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.2.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. Measure the power by power meter

### 3.2.4 Test Setup





3.2.5 Test Result of Output Power

Test Mode :	Mode 1, 2, 3	Temperature :	26~28°C
Test Engineer :	Ken Hsu	Relative Humidity :	58~60%

Channel	Frequency (MHz)	802.11b Measured Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	19.11	30	Pass
06	2437	18.61	30	Pass
11	2462	18.65	30	Pass

Test Mode :	Mode 4, 5, 6	Temperature :	26~28°C
Test Engineer :	Ken Hsu	Relative Humidity :	58~60%

Channel	Frequency (MHz)	802.11g Measured Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	18.86	30	Pass
06	2437	18.64	30	Pass
11	2462	19.03	30	Pass

### 3.3 Band Edges Measurement

#### 3.3.1 Limit of Band Edges

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB.

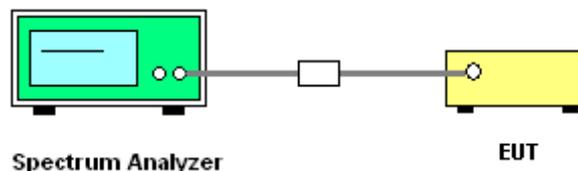
#### 3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.3.3 Test Procedures

1. The testing follows the guidelines in ANSI C63.4-2003 and FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. Conducted emission test: Set RBW = 100 kHz, Video bandwidth (VBW) > RBW, scan up through 10th harmonic. Band edge emissions must be at least 20 dB below the highest emission level within the authorized band as measured with a 100 kHz RBW. Note: If the output power of this device was measured by power meter, the attenuation under this paragraph shall be 30 dB instead of 20 dB.
3. Radiated emission test: Apply to band edge emissions that fall in the restricted bands listed in FCC Section 15.205. The maximum permitted average field strength is listed in FCC Section 15.209. A pre-amp is necessary for this measurement. For measurements above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep=Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation as in FCC Section 15.35(b) and (c).

#### 3.3.4 Test Setup





3.3.5 Test Result of Radiated Band Edges

Test Mode :	Mode 1	Temperature :	28~29°C
Test Band :	802.11b	Relative Humidity :	42~44%
Test Channel :	01	Test Engineer :	Kai Wang

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2390.00	61.32	-12.68	74.00	58.11	32.13	5.46	34.38	200	360	Peak
2390.00	50.41	-3.59	54.00	47.20	32.13	5.46	34.38	200	360	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2389.99	56.08	-17.92	74.00	52.87	32.13	5.46	34.38	146	53	Peak
2389.99	44.74	-9.26	54.00	41.53	32.13	5.46	34.38	146	53	Average

Test Mode :	Mode 3	Temperature :	28~29°C
Test Band :	802.11b	Relative Humidity :	42~44%
Test Channel :	11	Test Engineer :	Kai Wang

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2483.50	62.29	-11.71	74.00	59.03	32.27	5.38	34.40	133	346	Peak
2483.50	51.34	-2.66	54.00	48.08	32.27	5.38	34.40	133	346	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2483.50	60.68	-13.32	74.00	57.42	32.27	5.38	34.40	114	53	Peak
2483.50	47.66	-6.34	54.00	44.40	32.27	5.38	34.40	114	53	Average



Test Mode :	Mode 4	Temperature :	28~29°C
Test Band :	802.11g	Relative Humidity :	42~44%
Test Channel :	01	Test Engineer :	Kai Wang

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2389.99	69.08	-4.92	74.00	65.87	32.13	5.46	34.38	192	8	Peak
2389.99	51.37	-2.63	54.00	48.16	32.13	5.46	34.38	192	8	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2389.61	66.43	-7.57	74.00	63.22	32.13	5.46	34.38	118	53	Peak
2389.61	47.99	-6.01	54.00	44.78	32.13	5.46	34.38	118	53	Average

Test Mode :	Mode 6	Temperature :	28~29°C
Test Band :	802.11g	Relative Humidity :	42~44%
Test Channel :	11	Test Engineer :	Kai Wang

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2483.66	69.99	-4.01	74.00	66.73	32.27	5.38	34.40	160	10	Peak
2483.66	50.06	-3.94	54.00	46.80	32.27	5.38	34.40	160	10	Average

ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2483.85	62.31	-11.69	74.00	59.05	32.27	5.38	34.40	121	54	Peak
2483.85	44.62	-9.38	54.00	41.36	32.27	5.38	34.40	121	54	Average



Test Mode :	Mode 7	Temperature :	28~29°C
Test Band :	802.11g	Relative Humidity :	42~44%
Test Channel :	01	Test Engineer :	Kai Wang

ANTENNA POLARITY : HORIZONTAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2389.99	71.16	-2.84	74.00	67.95	32.13	5.46	34.38	200	118	Peak
2389.99	52.94	-1.06	54.00	49.73	32.13	5.46	34.38	200	118	Average

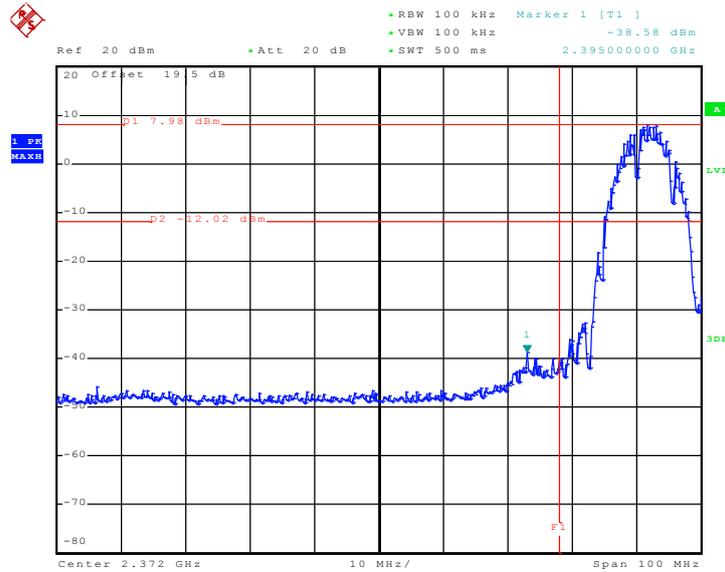
ANTENNA POLARITY : VERTICAL										
Frequency ( MHz )	Level ( dBuV/m )	Over Limit ( dB )	Limit Line ( dBuV/m )	Read Level ( dBuV )	Antenna Factor ( dB )	Cable Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Remark
2389.99	71.26	-2.74	74.00	68.05	32.13	5.46	34.38	127	47	Peak
2389.99	52.85	-1.15	54.00	49.64	32.13	5.46	34.38	127	47	Average



### 3.3.6 Test Plots of Conducted Band Edges

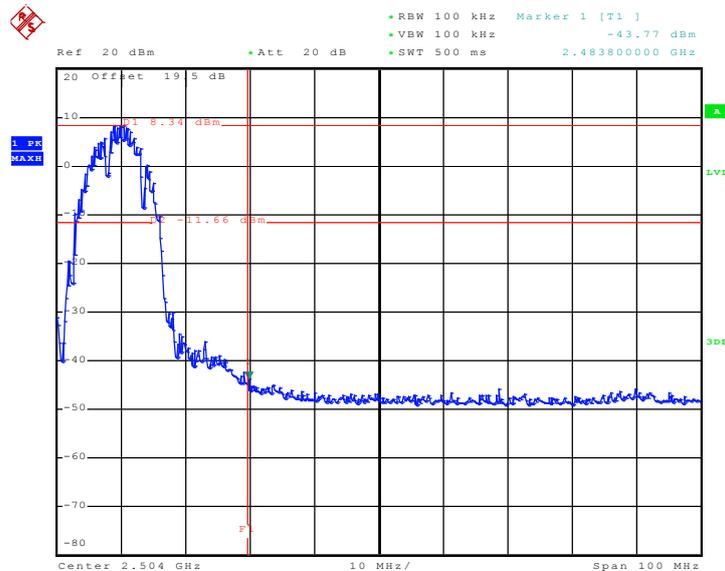
Test Mode :	Mode 1 and 3	Temperature :	26~28°C
Test Band :	802.11b	Relative Humidity :	58~60%
Test Channel :	01 and 11	Test Engineer :	Ken Hsu

Low Band Edge Plot on 802.11b Channel 01



Date: 25.SEP.2009 08:53:15

High Band Edge Plot on 802.11b Channel 11

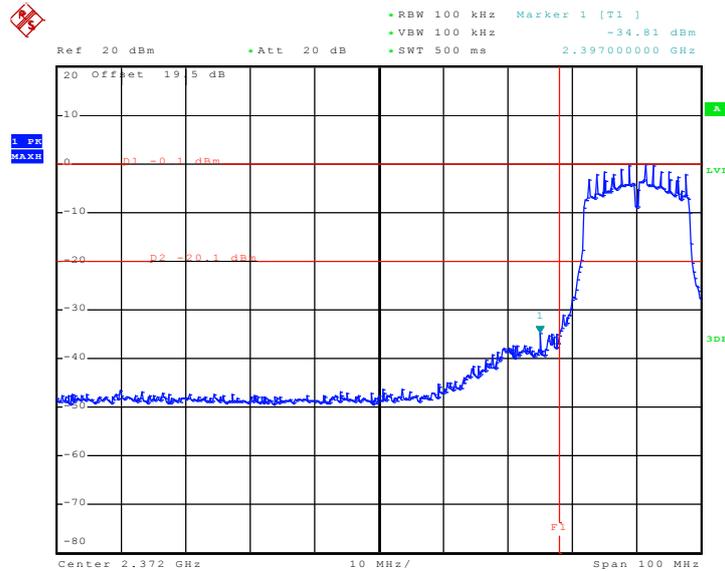


Date: 25.SEP.2009 08:54:11



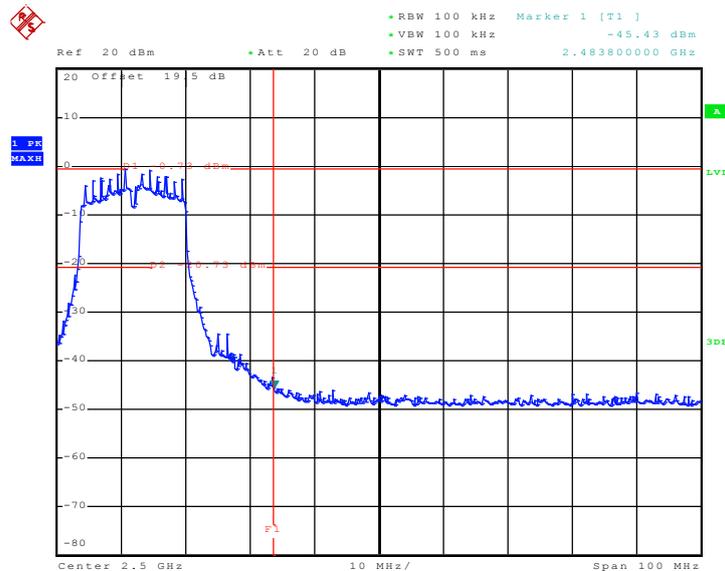
Test Mode :	Mode 4 and 6	Temperature :	26~28°C
Test Band :	802.11g	Relative Humidity :	58~60%
Test Channel :	01 and 11	Test Engineer :	Ken Hsu

Low Band Edge Plot on 802.11g Channel 01



Date: 25.SEP.2009 08:56:17

High Band Edge Plot on 802.11g Channel 11



Date: 25.SEP.2009 08:55:27

## 3.4 Spurious Emission Measurement

### 3.4.1 Limit of Spurious Emission Measurement

All harmonics/spurs must be at least 20 dB down from the highest emission level within the authorized band.

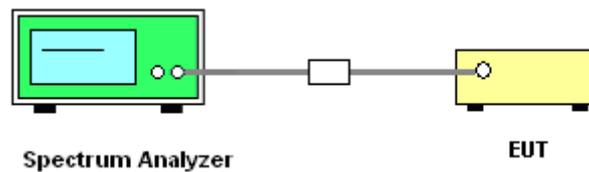
### 3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.4.3 Test Procedure

1. The transmitter output was connected to the spectrum analyzer via a low lose cable.
2. Set RBW = 100 kHz, Video bandwidth (VBW)  $\geq$  RBW, scan up through 10th harmonic. All harmonics/spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.

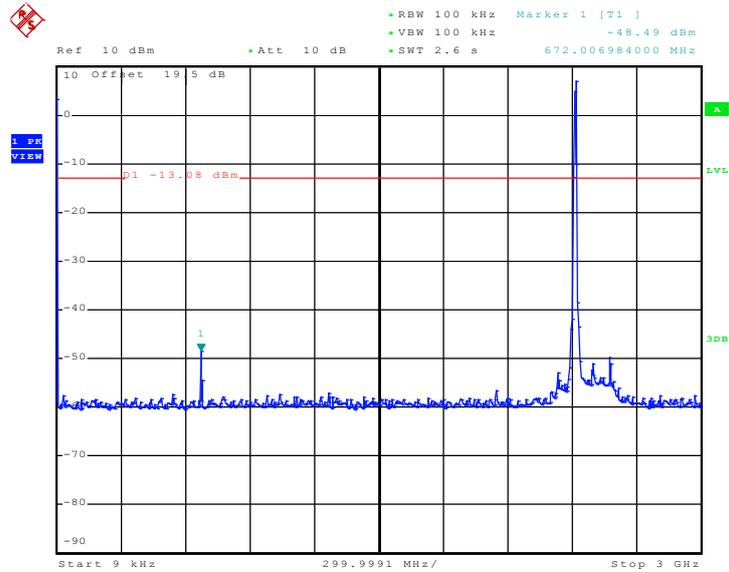
### 3.4.4 Test Setup



### 3.4.5 Test Plots of Spurious Emission

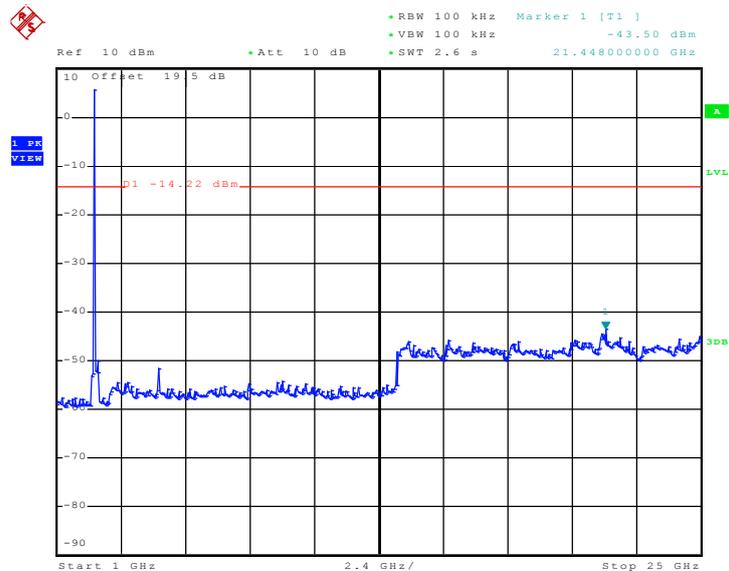
Test Mode :	Mode 1	Temperature :	26~28°C
Test Channel :	01	Relative Humidity :	58~60%
		Test Engineer :	Ken Hsu

Conducted Spurious Emission Plot between 9 kHz ~ 3 GHz



Date: 25.SEP.2009 09:27:24

Conducted Spurious Emission Plot between 1GHz ~ 25 GHz

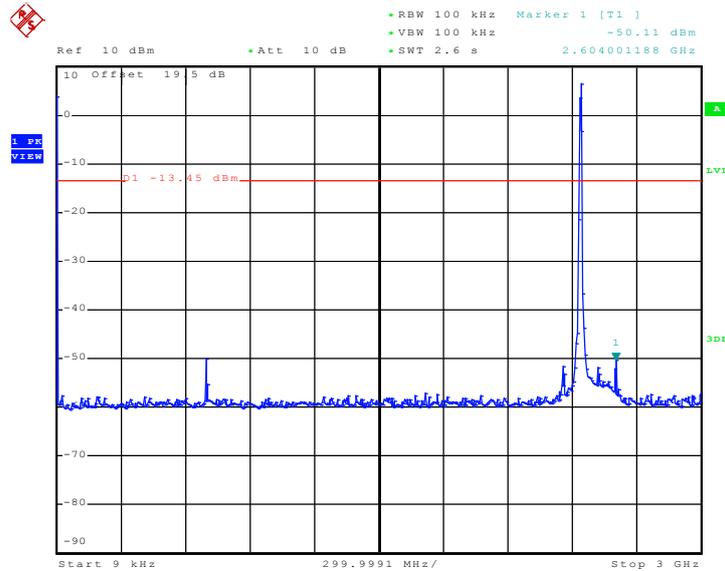


Date: 25.SEP.2009 09:10:38



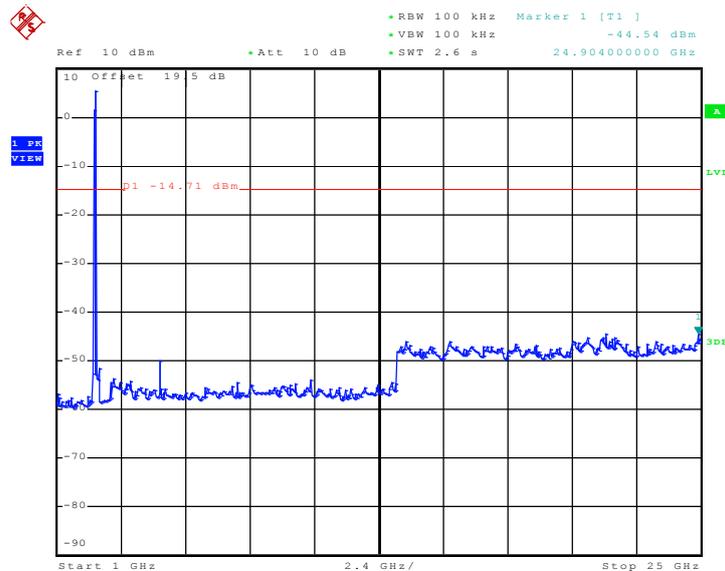
Test Mode :	Mode 2	Temperature :	26~28°C
Test Channel :	06	Relative Humidity :	58~60%
		Test Engineer :	Ken Hsu

Conducted Spurious Emission Plot between 9 kHz ~ 3 GHz



Date: 25.SEP.2009 09:11:07

Conducted Spurious Emission Plot between 1GHz ~ 25 GHz

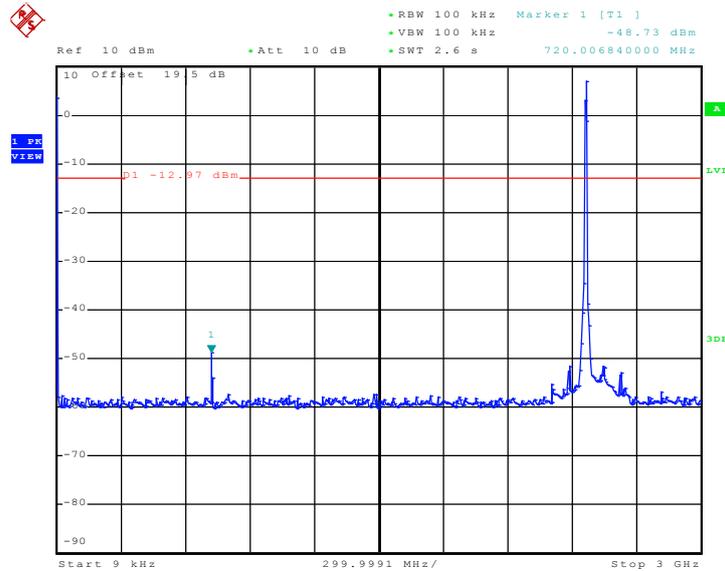


Date: 25.SEP.2009 09:11:31



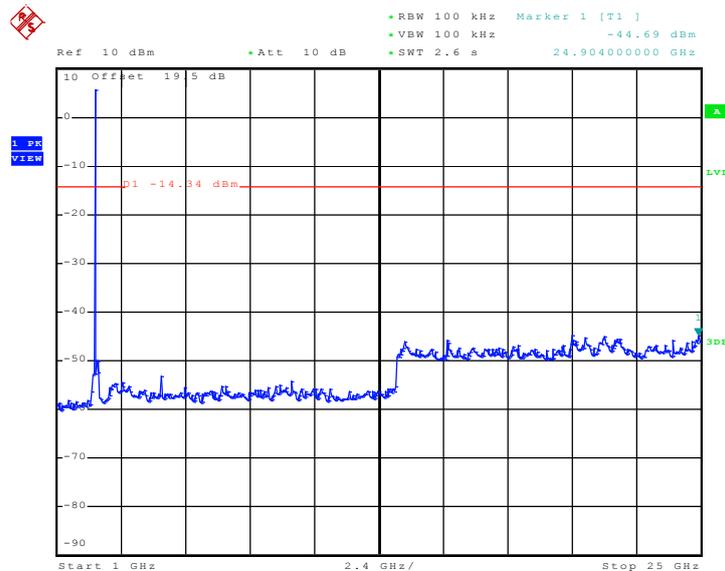
Test Mode :	Mode 3	Temperature :	26~28°C
Test Channel :	11	Relative Humidity :	58~60%
		Test Engineer :	Ken Hsu

Conducted Spurious Emission Plot between 9 kHz ~ 3 GHz



Date: 25.SEP.2009 09:21:06

Conducted Spurious Emission Plot between 1GHz ~ 25 GHz

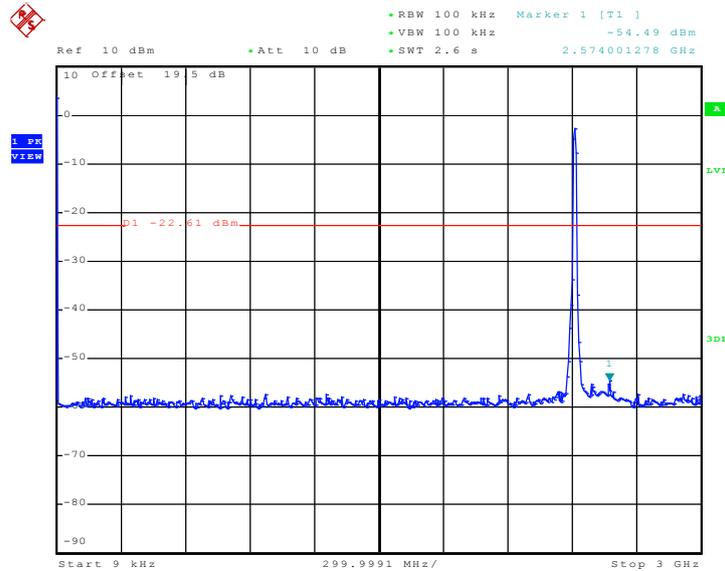


Date: 25.SEP.2009 09:21:20



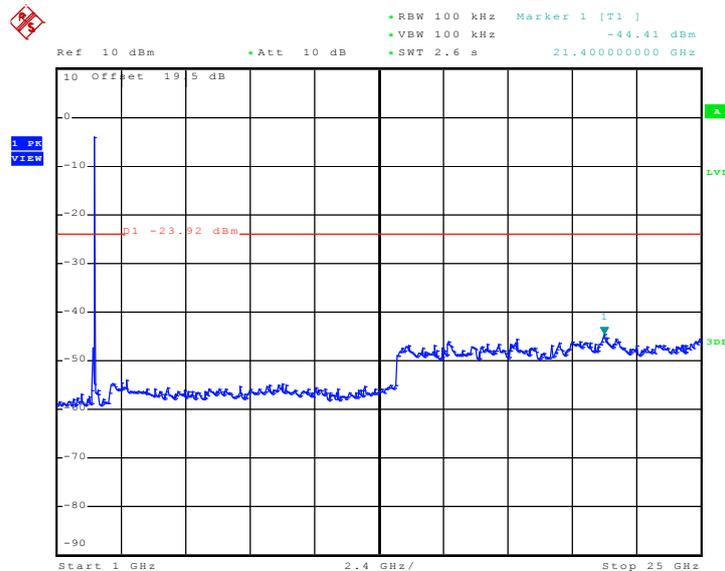
Test Mode :	Mode 4	Temperature :	26~28°C
Test Channel :	01	Relative Humidity :	58~60%
		Test Engineer :	Ken Hsu

Conducted Spurious Emission Plot between 9 kHz ~ 3 GHz



Date: 25.SEP.2009 09:21:57

Conducted Spurious Emission Plot between 1GHz ~ 25 GHz

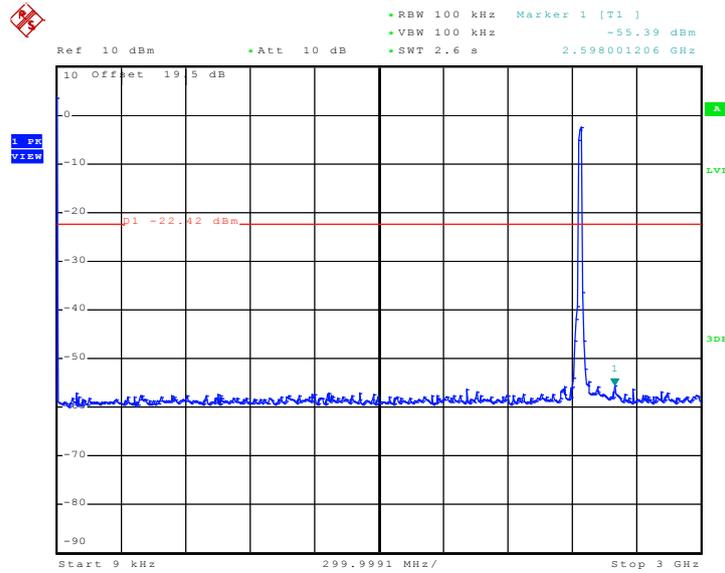


Date: 25.SEP.2009 09:22:20



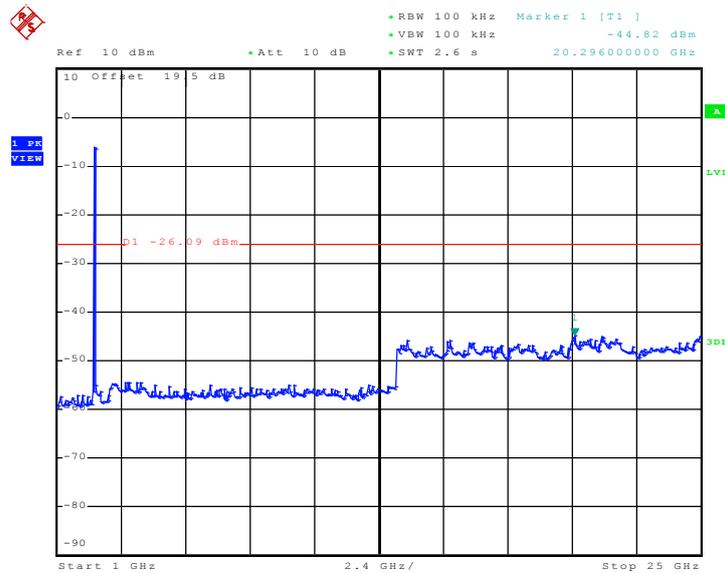
Test Mode :	Mode 5	Temperature :	26~28°C
Test Channel :	06	Relative Humidity :	58~60%
		Test Engineer :	Ken Hsu

Conducted Spurious Emission Plot between 9 kHz ~ 3 GHz



Date: 25.SEP.2009 09:23:17

Conducted Spurious Emission Plot between 1GHz ~ 25 GHz

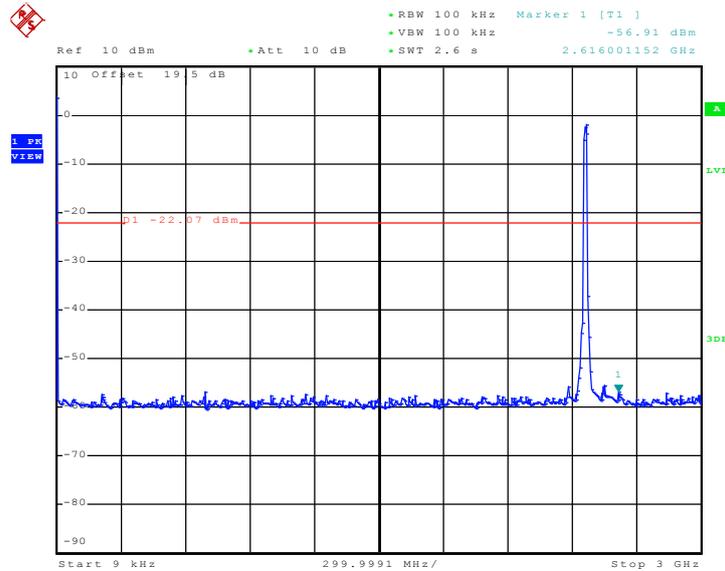


Date: 25.SEP.2009 09:23:43



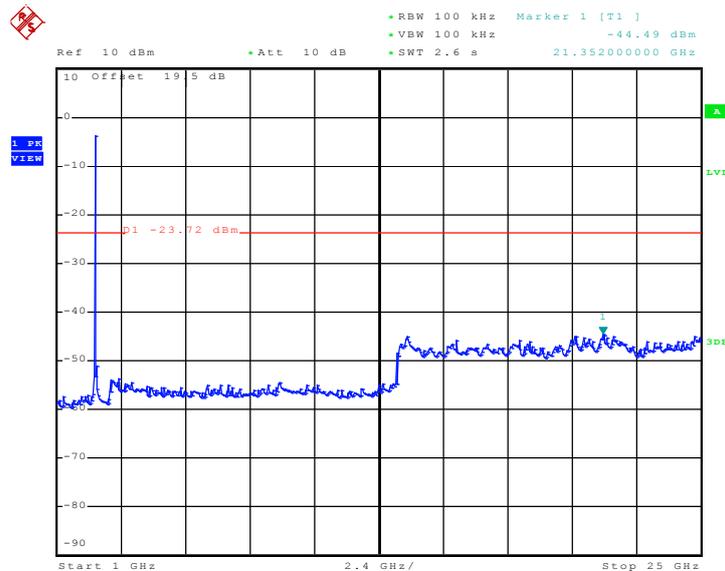
Test Mode :	Mode 6	Temperature :	26~28°C
Test Channel :	11	Relative Humidity :	58~60%
		Test Engineer :	Ken Hsu

Conducted Spurious Emission Plot between 9 kHz ~ 3 GHz



Date: 25.SEP.2009 09:24:18

Conducted Spurious Emission Plot between 1GHz ~ 25 GHz



Date: 25.SEP.2009 09:24:53

## 3.5 Power Spectral Density Measurement

### 3.5.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

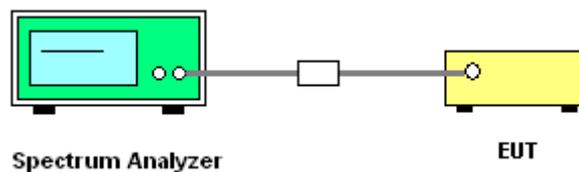
### 3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

### 3.5.3 Test Procedures

1. The test follows FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Take the measured data from spectrum analyzer.

### 3.5.4 Test Setup



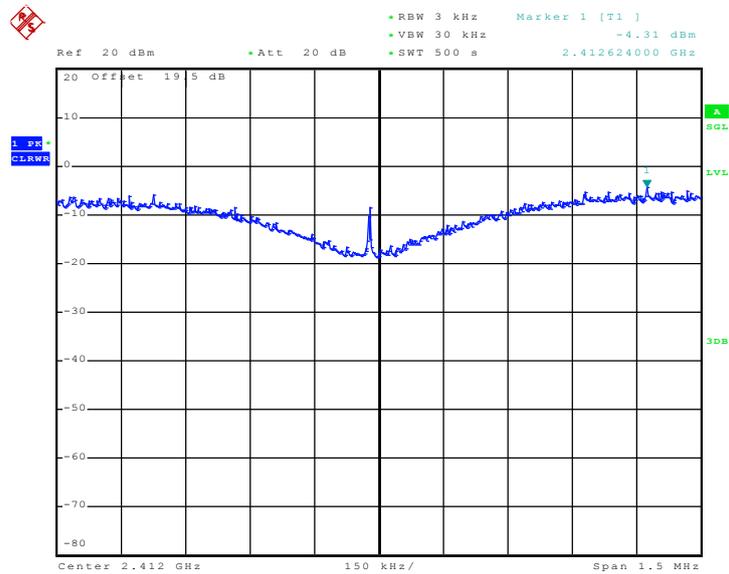


3.5.5 Test Result of Power Spectral Density

Test Mode :	Mode 1, 2, 3	Temperature :	26~28°C
Test Engineer :	Ken Hsu	Relative Humidity :	58~60%

Channel	Frequency (MHz)	802.11b Measured PSD (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	-4.31	8	Pass
06	2437	-3.80	8	Pass
11	2462	-4.60	8	Pass

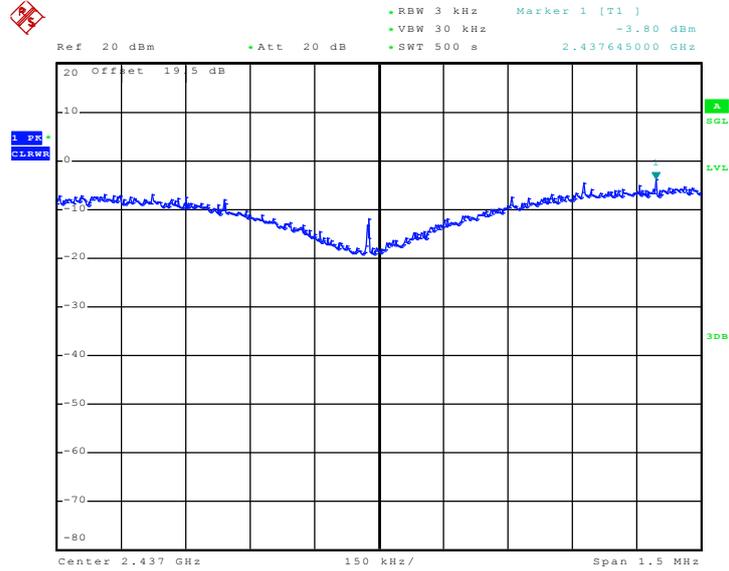
Mode 1 : PSD Plot on 802.11b Channel 01



Date: 25.SEP.2009 09:48:41

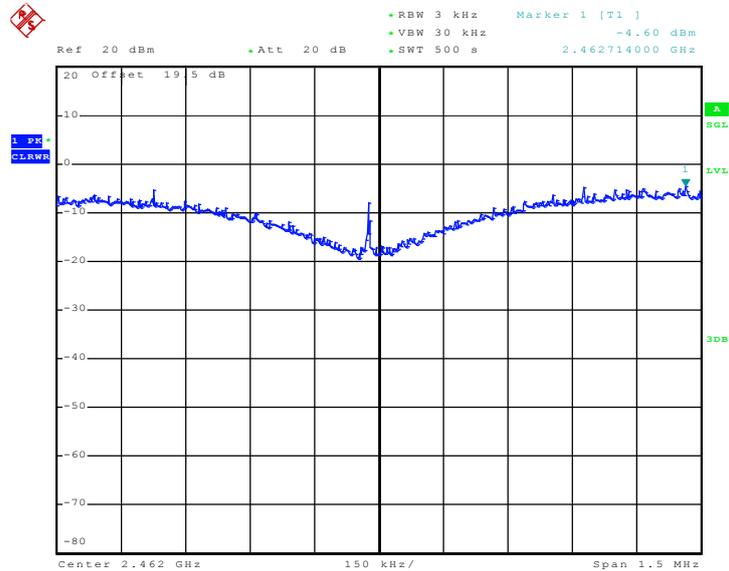


Mode 2 : PSD Plot on 802.11b Channel 06



Date: 25.SEP.2009 10:00:40

Mode 3 : PSD Plot on 802.11b Channel 11



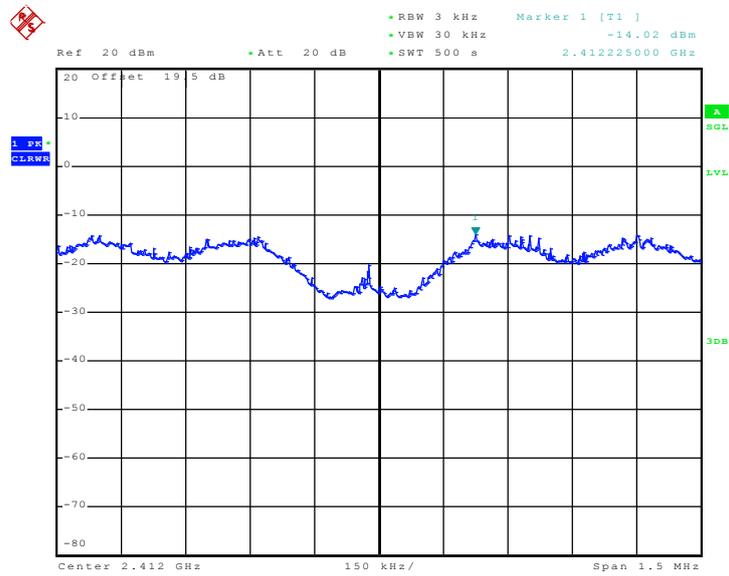
Date: 25.SEP.2009 10:09:39



Test Mode :	Mode 4, 5, 6	Temperature :	26~28°C
Test Engineer :	Ken Hsu	Relative Humidity :	58~60%

Channel	Frequency (MHz)	802.11g Measured PSD (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	-14.02	8	Pass
06	2437	-14.88	8	Pass
11	2462	-13.90	8	Pass

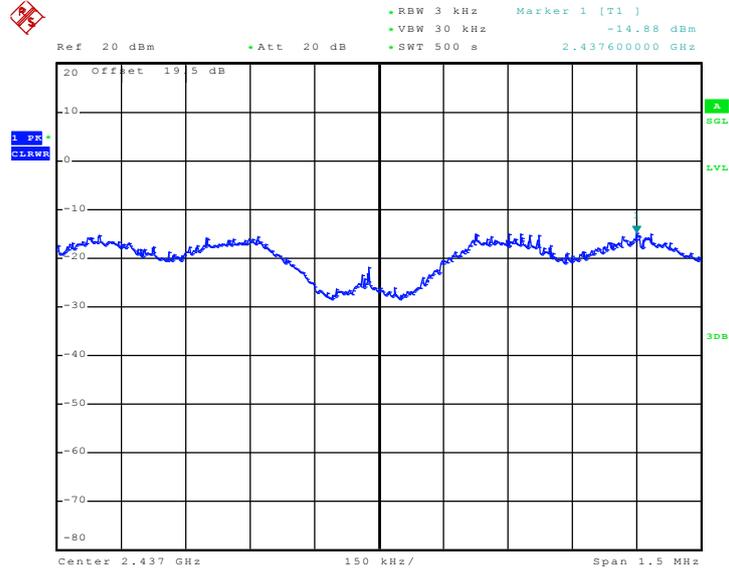
Mode 4 : PSD Plot on 802.11g Channel 01



Date: 25.SEP.2009 10:18:51

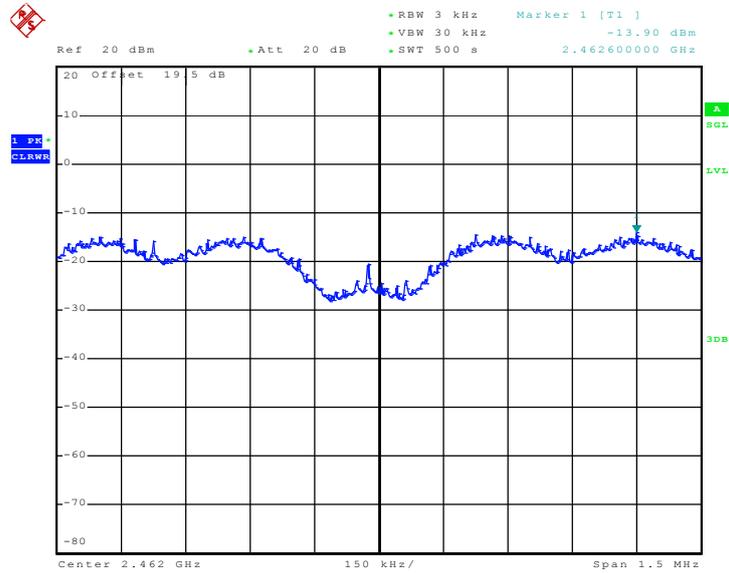


Mode 5 : PSD Plot on 802.11g Channel 06



Date: 25.SEP.2009 10:28:01

Mode 6 : PSD Plot on 802.11g Channel 11



Date: 25.SEP.2009 10:58:13

### 3.6 AC Conducted Emission Measurement

#### 3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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

\*Decreases with the logarithm of the frequency.

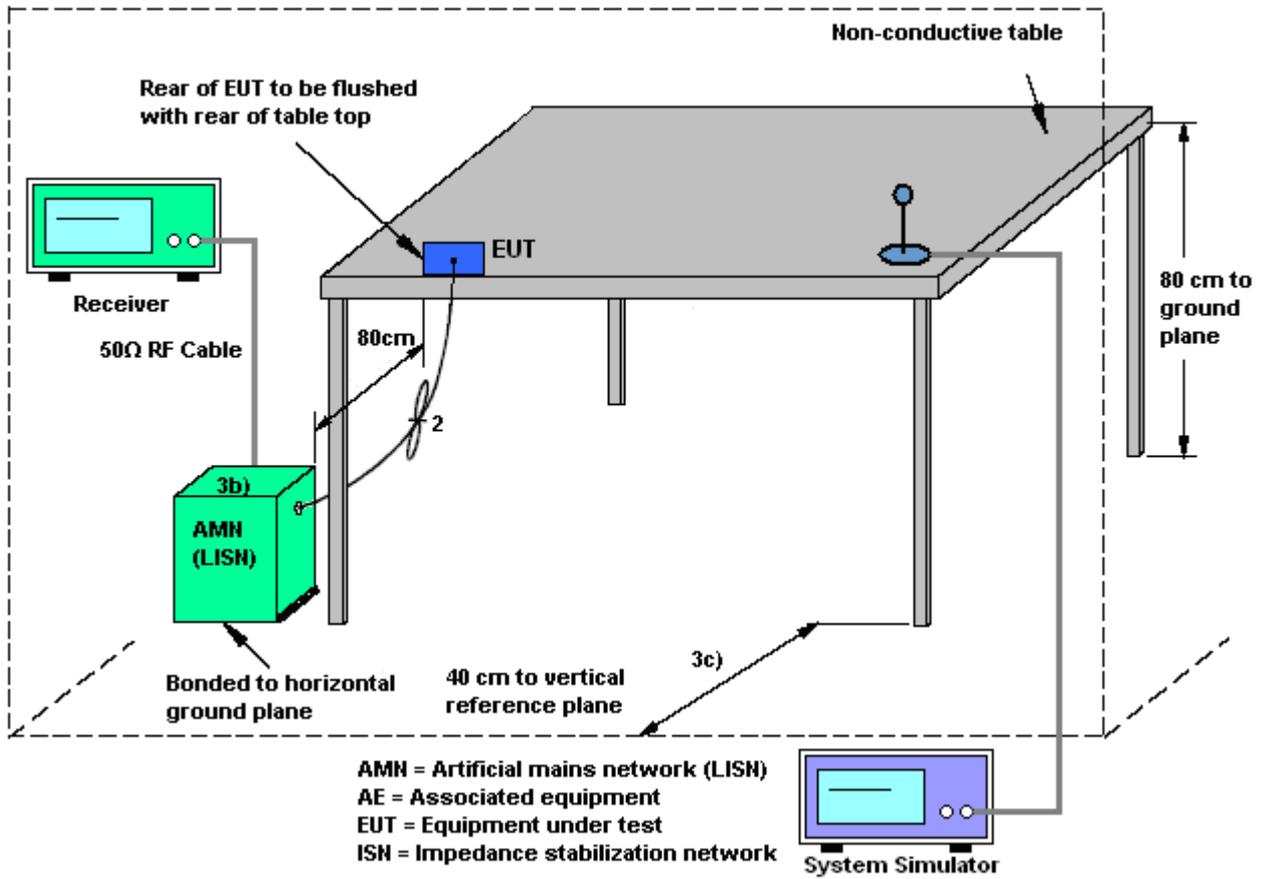
#### 3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

#### 3.6.3 Test Procedures

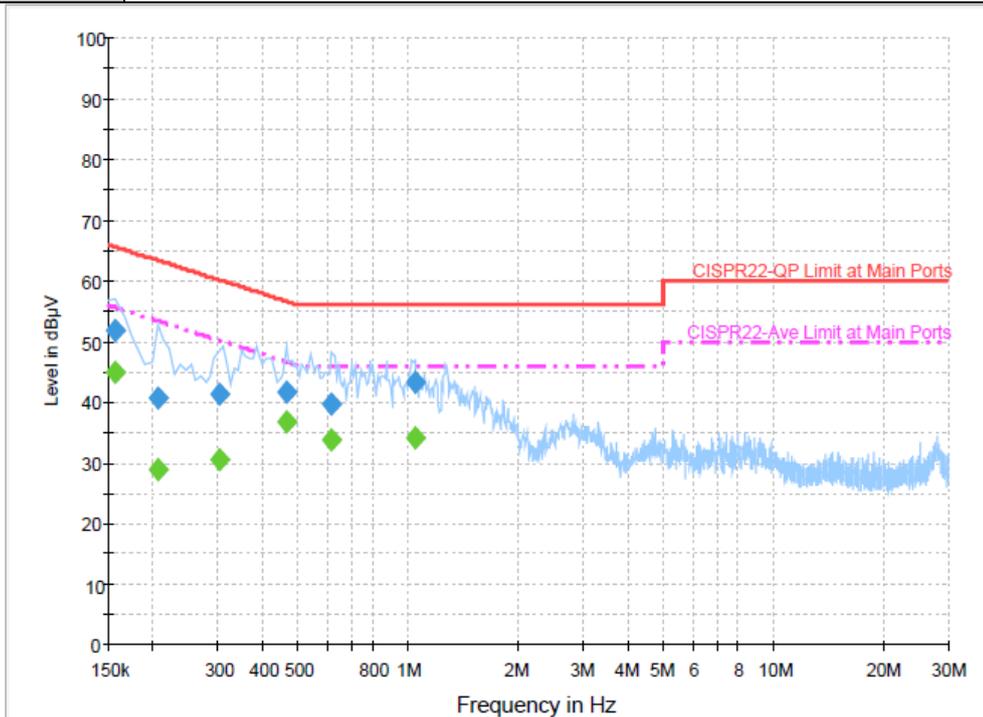
1. The testing follows the guidelines in ANSI C63.4-2003.
2. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN).
4. All the support units are connecting to the other LISN.
5. The LISN provides 50 ohm coupling impedance for the measuring instrument.
6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
7. Both sides of AC line were checked for maximum conducted interference.
8. The frequency range from 150 kHz to 30 MHz was searched.
9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

### 3.6.4 Test Setup



### 3.6.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	22~23°C
Test Engineer :	Cona Huang	Relative Humidity :	42~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	Pocket PC Phone 1 + GSM850 Idle + Bluetooth Link + WLAN Link + GPS Rx + Camera + Earphone 1 + USB Cable (Link with Notebook)		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



#### Final Result 1

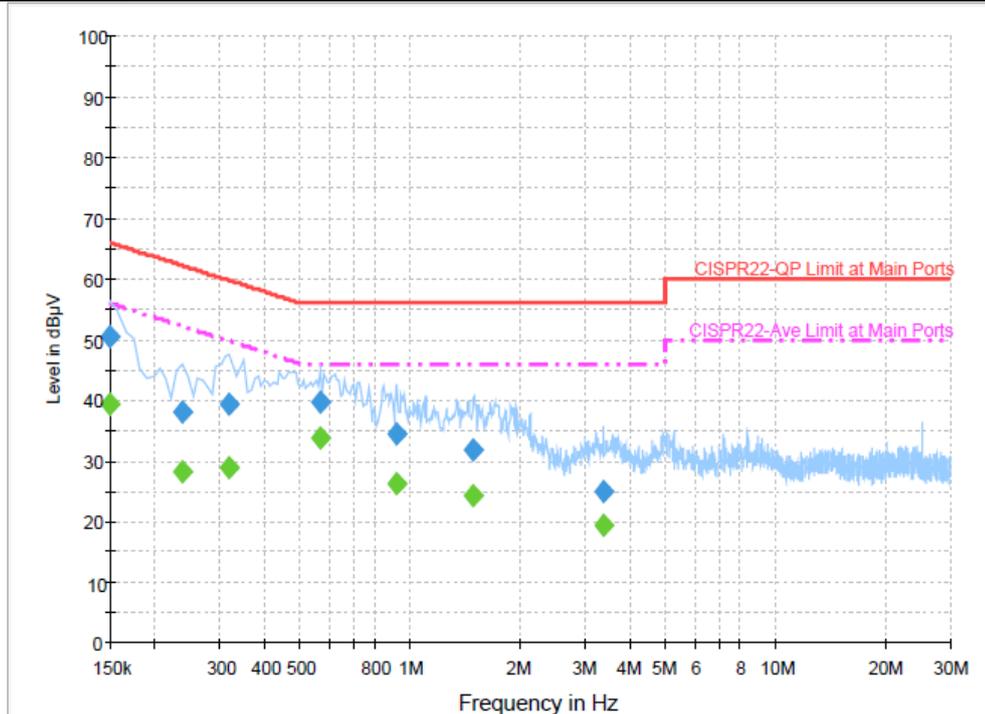
Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	51.7	Off	L1	19.5	13.9	65.6
0.206000	40.7	Off	L1	19.5	22.7	63.4
0.302000	41.2	Off	L1	19.4	19.0	60.2
0.462000	41.7	Off	L1	19.4	15.0	56.7
0.614000	39.7	Off	L1	19.5	16.4	56.0
1.038000	43.4	Off	L1	19.4	12.6	56.0

#### Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	44.8	Off	L1	19.5	10.8	55.6
0.206000	28.7	Off	L1	19.5	24.7	53.4
0.302000	30.5	Off	L1	19.4	19.7	50.2
0.462000	36.6	Off	L1	19.4	10.1	46.7
0.614000	33.7	Off	L1	19.5	12.3	46.0
1.038000	34.1	Off	L1	19.4	11.9	46.0



Test Mode :	Mode 1	Temperature :	22~23°C
Test Engineer :	Cona Huang	Relative Humidity :	42~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	Pocket PC Phone 1 + GSM850 Idle + Bluetooth Link + WLAN Link + GPS Rx + Camera + Earphone 1 + USB Cable (Link with Notebook)		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	50.5	Off	N	19.5	15.5	66.0
0.238000	37.9	Off	N	19.5	24.3	62.2
0.318000	39.3	Off	N	19.5	20.5	59.8
0.566000	39.7	Off	N	19.5	16.3	56.0
0.918000	34.3	Off	N	19.4	21.7	56.0
1.486000	31.9	Off	N	19.5	24.1	56.0
3.382000	24.8	Off	N	19.5	31.2	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	39.5	Off	N	19.5	16.5	56.0
0.238000	28.2	Off	N	19.5	24.0	52.2
0.318000	28.9	Off	N	19.5	20.9	49.8
0.566000	33.7	Off	N	19.5	12.3	46.0
0.918000	26.4	Off	N	19.4	19.6	46.0
1.486000	24.2	Off	N	19.5	21.8	46.0
3.382000	19.3	Off	N	19.5	26.7	46.0

## 3.7 Radiated Emission Measurement

### 3.7.1 Limit of Radiated Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

### 3.7.2 Measuring Instruments

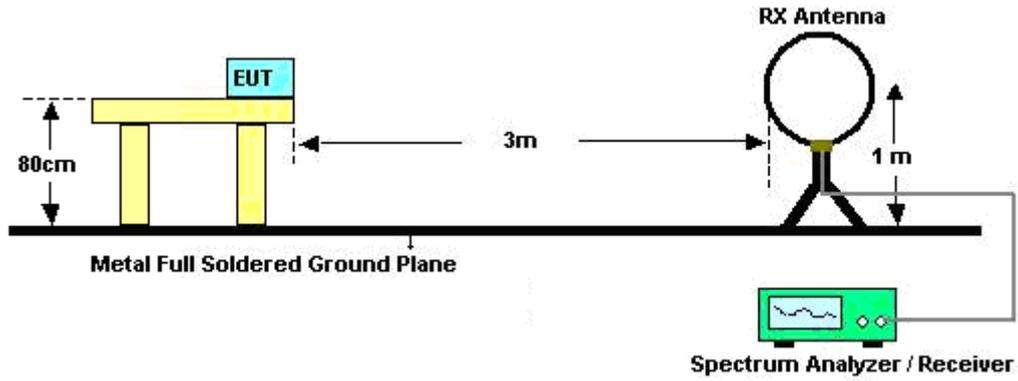
See list of measuring instruments of this test report.

### 3.7.3 Test Procedures

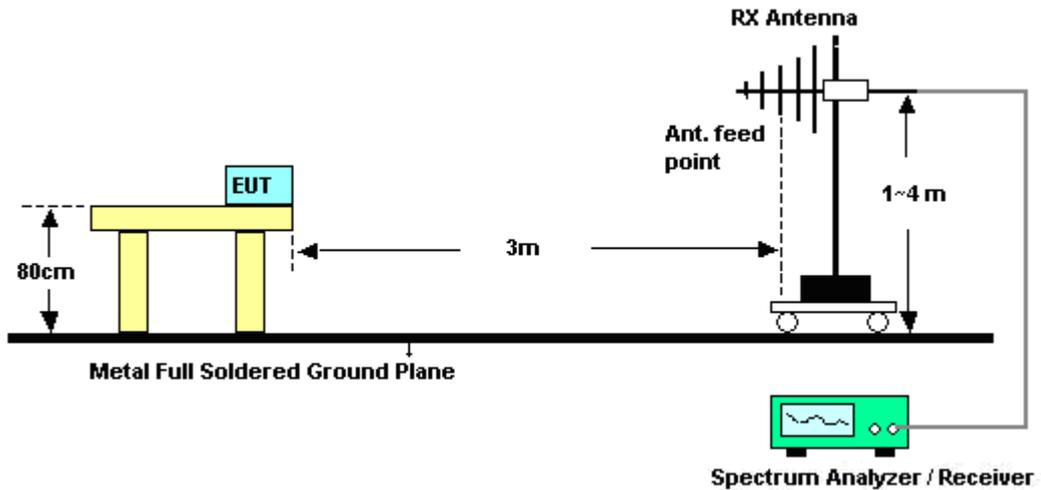
1. The testing follows the guidelines in FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. Use the following spectrum analyzer settings:  
Span = wide enough to fully capture the emission being measured; RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold.
3. Follow the guidelines in ANSI C63.4-2003 with respect to maximizing the emission by rotating the EUT, measuring the emission for three EUT orthogonal planes, and adjusting the measurement antenna height and polarization. A pre-amp and a high pass filter are used for this test in order to get the good signal level.

### 3.7.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz





3.7.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

Test Engineer :	Kai Wang	Temperature :	28~29°C	
		Relative Humidity :	42~44%	
Frequency (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

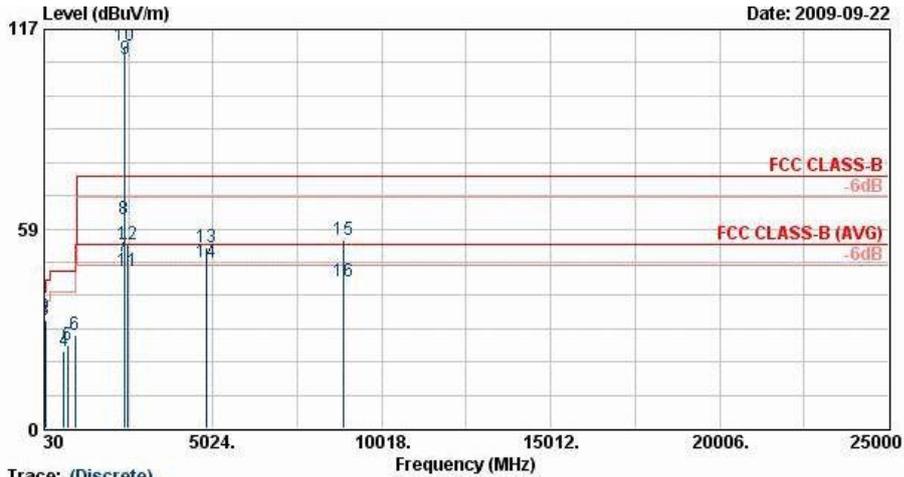
Distance extrapolation factor =  $40 \log(\text{specific distance} / \text{test distance})$  (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.



3.7.6 Test Result of Radiated Emission (30 MHz ~ 10<sup>th</sup> Harmonic)

Test Mode :	Mode 1	Temperature :	28~29°C
Test Channel :	01	Relative Humidity :	42~44%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

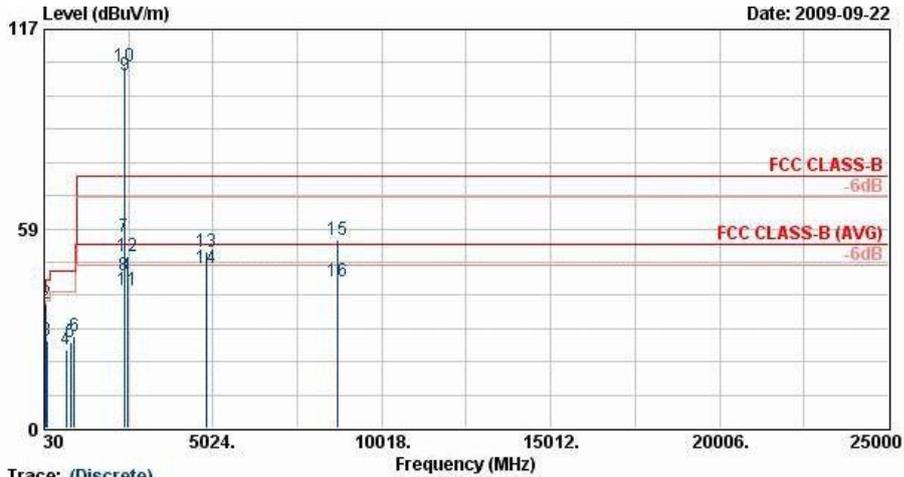


Trace: (Discrete)  
 Site : D3CH07-HY  
 Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL  
 Project : FR 961306-03

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 !	32.97	35.22	-4.78	40.00	47.97	18.28	0.66	31.70	100	185	Peak
2	44.58	32.55	-7.45	40.00	51.93	11.60	0.72	31.70	---	---	Peak
3	54.30	31.59	-8.41	40.00	54.55	7.88	0.86	31.70	---	---	Peak
4	610.10	22.66	-23.34	46.00	30.75	19.62	3.28	30.99	---	---	Peak
5	722.10	24.31	-21.69	46.00	30.24	21.31	3.62	30.86	---	---	Peak
6	940.50	27.37	-18.63	46.00	29.65	24.14	4.24	30.66	---	---	Peak
7 !	2390.00	50.41	-3.59	54.00	47.20	32.13	5.46	34.38	200	360	Average
8	2390.00	61.32	-12.68	74.00	58.11	32.13	5.46	34.38	200	360	Peak
9 @	2412.00	108.33			105.11	32.16	5.44	34.38	200	360	Average
10 X	2412.00	112.22			109.00	32.16	5.44	34.38	200	360	Peak
11	2492.00	46.24	-7.76	54.00	42.97	32.30	5.37	34.40	200	360	Average
12	2492.00	53.88	-20.12	74.00	50.61	32.30	5.37	34.40	200	360	Peak
13	4824.00	52.94	-21.06	74.00	45.60	34.33	7.81	34.80	120	334	Peak
14 !	4824.00	48.68	-5.32	54.00	41.34	34.33	7.81	34.80	120	334	Average
15	8898.00	55.18	-18.82	74.00	44.01	36.24	10.31	35.38	100	179	Peak
16	8898.00	43.22	-10.78	54.00	32.05	36.24	10.31	35.38	100	179	Average



Test Mode :	Mode 1	Temperature :	28~29°C
Test Channel :	01	Relative Humidity :	42~44%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

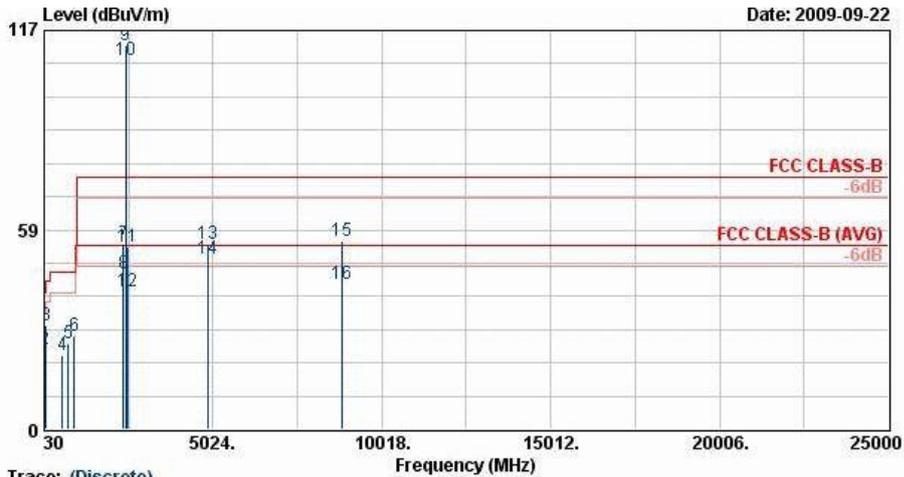


Trace: (Discrete)  
 Site : D3CH07-HY  
 Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL  
 Project : FR 961306-03

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 !	32.97	37.64	-2.36	40.00	50.40	18.28	0.66	31.70	100	351	QP
2	92.37	36.33	-7.17	43.50	57.45	9.46	1.12	31.70	---	---	Peak
3	101.82	25.50	-18.00	43.50	45.33	10.70	1.17	31.70	---	---	Peak
4	688.50	23.22	-22.78	46.00	29.90	20.72	3.52	30.91	---	---	Peak
5	808.20	25.42	-20.58	46.00	30.18	22.07	3.87	30.70	---	---	Peak
6	923.00	27.06	-18.94	46.00	29.93	23.61	4.21	30.68	---	---	Peak
7	2389.99	56.08	-17.92	74.00	52.87	32.13	5.46	34.38	146	53	Peak
8	2389.99	44.74	-9.26	54.00	41.53	32.13	5.46	34.38	146	53	Average
9 @	2412.00	103.70			100.48	32.16	5.44	34.38	146	53	Average
10 X	2412.00	105.92			102.70	32.16	5.44	34.38	146	53	Peak
11	2494.00	40.61	-13.39	54.00	37.34	32.30	5.37	34.40	146	53	Average
12	2494.00	50.33	-23.67	74.00	47.06	32.30	5.37	34.40	146	53	Peak
13	4824.00	51.91	-22.09	74.00	44.57	34.33	7.81	34.80	100	128	Peak
14	4824.00	47.18	-6.82	54.00	39.84	34.33	7.81	34.80	100	128	Average
15	8697.00	55.12	-18.88	74.00	44.09	36.12	10.24	35.34	100	186	Peak
16	8697.00	43.08	-10.92	54.00	32.06	36.12	10.24	35.34	100	186	Average



Test Mode :	Mode 2	Temperature :	28~29°C
Test Channel :	06	Relative Humidity :	42~44%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

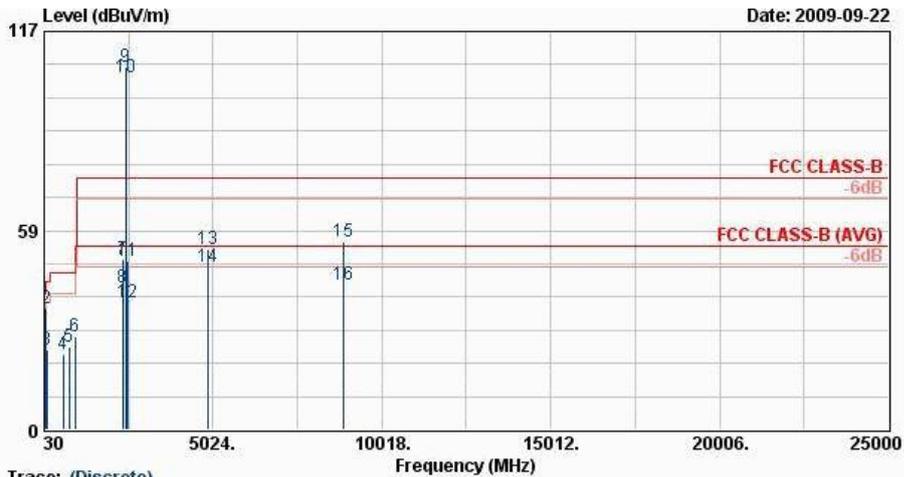


Trace: (Discrete)  
 Site : D3CH07-RY  
 Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL  
 Project : FR 961306-03

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.89	31.97	-8.03	40.00	44.20	18.82	0.66	31.70	100	214	Peak
2	42.69	23.59	-16.41	40.00	41.88	12.68	0.72	31.70	---	---	Peak
3	92.37	30.58	-12.92	43.50	51.70	9.46	1.12	31.70	---	---	Peak
4	570.90	21.68	-24.32	46.00	30.40	19.15	3.16	31.03	---	---	Peak
5	755.00	25.02	-20.98	46.00	30.28	21.81	3.71	30.79	---	---	Peak
6	923.70	27.30	-18.70	46.00	30.17	23.61	4.21	30.68	---	---	Peak
7	2382.00	54.37	-19.63	74.00	51.17	32.11	5.47	34.38	200	124	Peak
8	2382.00	45.81	-8.19	54.00	42.61	32.11	5.47	34.38	200	124	Average
9 X	2437.00	112.73			109.49	32.22	5.41	34.39	200	124	Peak
10 @	2437.00	108.16			104.92	32.22	5.41	34.39	200	124	Average
11	2484.00	53.34	-20.66	74.00	50.08	32.27	5.38	34.40	200	124	Peak
12	2484.00	40.35	-13.65	54.00	37.09	32.27	5.38	34.40	200	124	Average
13	4874.00	54.43	-19.57	74.00	47.03	34.35	7.85	34.80	100	337	Peak
14 !	4874.00	49.93	-4.07	54.00	42.53	34.35	7.85	34.80	100	337	Average
15	8826.00	55.04	-18.96	74.00	43.93	36.19	10.28	35.36	100	159	Peak
16	8826.00	42.70	-11.30	54.00	31.59	36.19	10.28	35.36	100	159	Average



Test Mode :	Mode 2	Temperature :	28~29°C
Test Channel :	06	Relative Humidity :	42~44%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

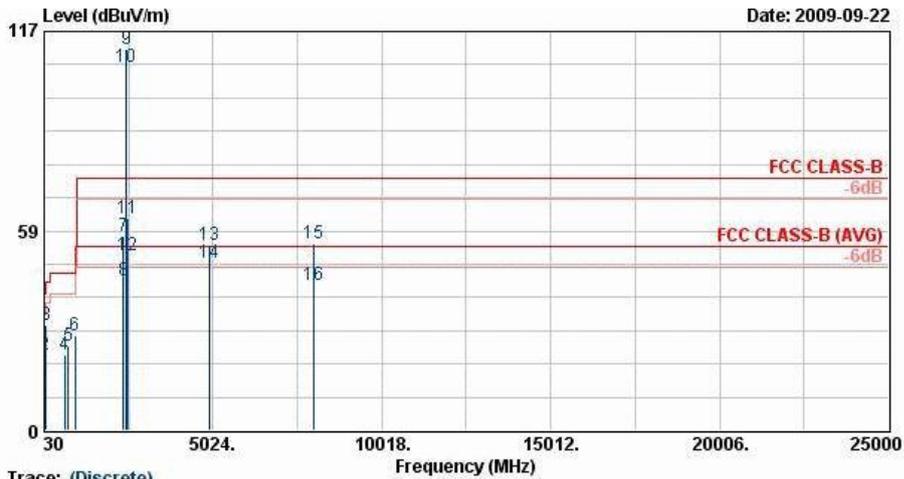


Site : D3CH07-HY  
 Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL  
 Project : FR 961306-03

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBUV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBUV/m	dBUV	dB/m	dB	dB	cm	deg	
1 !	33.78	38.18	-1.82	40.00	51.47	17.74	0.67	31.70	100	355	QP
2	92.37	35.59	-7.91	43.50	56.71	9.46	1.12	31.70	---	---	Peak
3	107.49	23.48	-20.02	43.50	42.67	11.30	1.21	31.69	---	---	Peak
4	587.00	22.08	-23.92	46.00	30.55	19.34	3.21	31.01	---	---	Peak
5	771.80	24.57	-21.43	46.00	29.71	21.84	3.77	30.76	---	---	Peak
6	937.70	27.46	-18.54	46.00	29.84	24.05	4.24	30.66	---	---	Peak
7	2358.00	49.92	-24.08	74.00	46.72	32.08	5.49	34.37	116	55	Peak
8	2358.00	41.67	-12.33	54.00	38.48	32.08	5.49	34.37	116	55	Average
9 X	2437.00	106.54			103.30	32.22	5.41	34.39	116	55	Peak
10 @	2437.00	103.54			100.30	32.22	5.41	34.39	116	55	Average
11	2484.00	49.48	-24.52	74.00	46.22	32.27	5.38	34.40	116	55	Peak
12	2484.00	37.28	-16.72	54.00	34.02	32.27	5.38	34.40	116	55	Average
13	4874.00	52.92	-21.08	74.00	45.52	34.35	7.85	34.80	100	127	Peak
14 !	4874.00	48.05	-5.95	54.00	40.65	34.35	7.85	34.80	100	127	Average
15	8886.00	55.04	-18.96	74.00	43.89	36.23	10.30	35.38	100	296	Peak
16	8886.00	42.55	-11.45	54.00	31.39	36.23	10.30	35.38	100	296	Average



Test Mode :	Mode 3	Temperature :	28~29°C
Test Channel :	11	Relative Humidity :	42~44%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

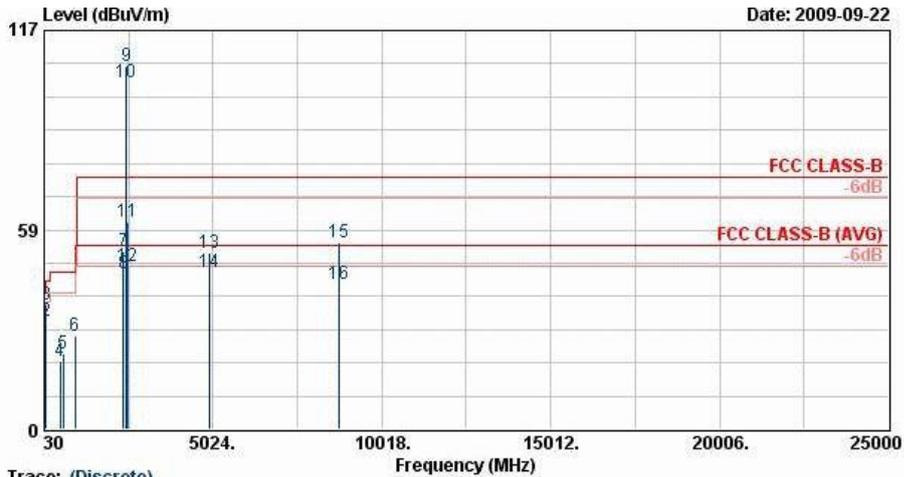


Trace: (Discrete)  
 Site : D3CH07-HY  
 Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL  
 Project : FR 961306-03

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	34.05	33.30	-6.70	40.00	46.59	17.74	0.67	31.70	100	121	Peak
2	44.58	22.31	-17.69	40.00	41.69	11.60	0.72	31.70	---	---	Peak
3	92.37	30.91	-12.59	43.50	52.03	9.46	1.12	31.70	---	---	Peak
4	637.40	22.32	-23.68	46.00	29.96	19.95	3.37	30.96	---	---	Peak
5	755.00	24.63	-21.37	46.00	29.89	21.81	3.71	30.79	---	---	Peak
6	951.70	27.67	-18.33	46.00	29.66	24.39	4.26	30.65	---	---	Peak
7	2382.00	56.91	-17.09	74.00	53.71	32.11	5.47	34.38	133	346	Peak
8	2382.00	43.82	-10.18	54.00	40.62	32.11	5.47	34.38	133	346	Average
9 X	2462.00	111.69			108.44	32.24	5.40	34.39	133	346	Peak
10 @	2462.00	106.38			103.13	32.24	5.40	34.39	133	346	Average
11	2483.50	62.29	-11.71	74.00	59.03	32.27	5.38	34.40	133	346	Peak
12 !	2483.50	51.34	-2.66	54.00	48.08	32.27	5.38	34.40	133	346	Average
13	4924.00	54.25	-19.75	74.00	46.78	34.37	7.89	34.80	129	336	Peak
14 !	4924.00	49.01	-4.99	54.00	41.54	34.37	7.89	34.80	129	336	Average
15	7989.00	55.02	-18.98	74.00	44.48	36.00	9.83	35.30	100	197	Peak
16	7989.00	42.64	-11.36	54.00	32.11	36.00	9.83	35.30	100	197	Average



Test Mode :	Mode 3	Temperature :	28~29°C
Test Channel :	11	Relative Humidity :	42~44%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

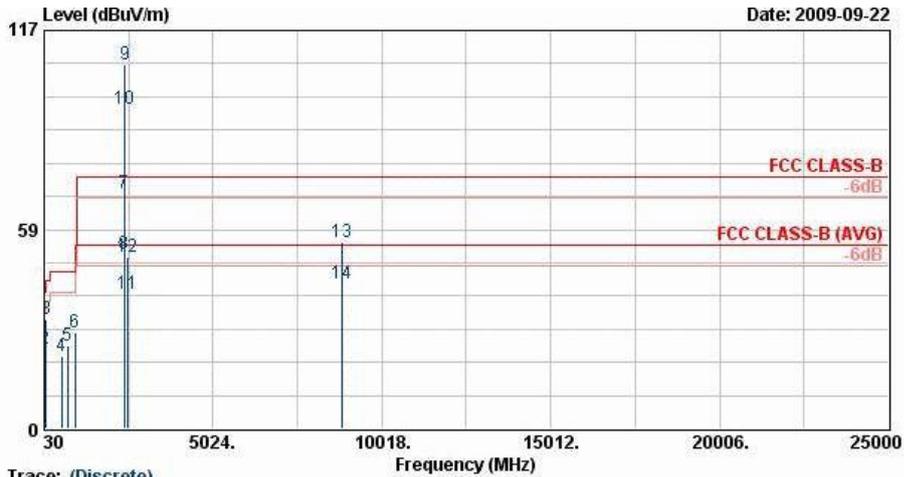


Trace: (Discrete)  
 Site : D3CH07-HY  
 Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL  
 Project : FR 961306-03

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 !	32.97	38.54	-1.46	40.00	51.30	18.28	0.66	31.70	100	357	QP
2	89.13	31.90	-11.60	43.50	53.46	9.04	1.10	31.70	---	---	Peak
3	92.64	36.73	-6.77	43.50	57.72	9.59	1.13	31.70	---	---	Peak
4	512.10	20.01	-25.99	46.00	29.76	18.36	2.98	31.09	---	---	Peak
5	596.10	21.99	-24.01	46.00	30.30	19.45	3.24	31.00	---	---	Peak
6	954.50	27.34	-18.66	46.00	29.34	24.38	4.27	30.65	---	---	Peak
7	2382.00	52.23	-21.77	74.00	49.02	32.11	5.47	34.38	114	53	Peak
8	2382.00	45.73	-8.27	54.00	42.53	32.11	5.47	34.38	114	53	Average
9 X	2462.00	106.76			103.51	32.24	5.40	34.39	114	53	Peak
10 @	2462.00	101.72			98.47	32.24	5.40	34.39	114	53	Average
11	2483.50	60.68	-13.32	74.00	57.42	32.27	5.38	34.40	114	53	Peak
12	2483.50	47.66	-6.34	54.00	44.40	32.27	5.38	34.40	114	53	Average
13	4924.00	51.61	-22.39	74.00	44.14	34.37	7.89	34.80	100	158	Peak
14	4924.00	46.31	-7.69	54.00	38.84	34.37	7.89	34.80	100	158	Average
15	8730.00	54.81	-19.19	74.00	43.77	36.14	10.25	35.35	100	282	Peak
16	8730.00	42.54	-11.46	54.00	31.49	36.14	10.25	35.35	100	282	Average



Test Mode :	Mode 4	Temperature :	28~29°C
Test Channel :	01	Relative Humidity :	42~44%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

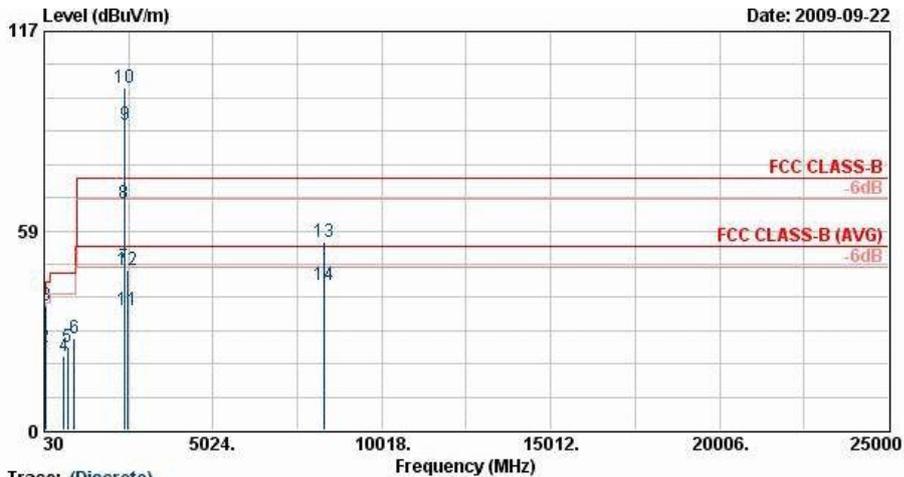


Trace: (Discrete)  
 Site : D3CH07-RY  
 Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL  
 Project : FR 961306-03

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.89	33.74	-6.26	40.00	45.97	18.82	0.66	31.70	100	185 Peak	
2	43.77	23.69	-16.31	40.00	42.53	12.14	0.72	31.70	---	---	Peak
3	92.37	32.06	-11.44	43.50	53.18	9.46	1.12	31.70	---	---	Peak
4	539.40	21.28	-24.72	46.00	30.54	18.75	3.06	31.06	---	---	Peak
5	718.60	24.26	-21.74	46.00	30.28	21.24	3.61	30.86	---	---	Peak
6	937.00	28.06	-17.94	46.00	30.48	24.02	4.23	30.66	---	---	Peak
7 !	2389.99	69.08	-4.92	74.00	65.87	32.13	5.46	34.38	192	8	Peak
8 !	2389.99	51.37	-2.63	54.00	48.16	32.13	5.46	34.38	192	8	Average
9 X	2412.00	107.07	---	---	103.85	32.16	5.44	34.38	192	8	Peak
10 @	2412.00	93.98	---	---	90.76	32.16	5.44	34.38	192	8	Average
11	2492.00	39.74	-14.26	54.00	36.47	32.30	5.37	34.40	192	8	Average
12	2492.00	50.25	-23.75	74.00	46.98	32.30	5.37	34.40	192	8	Peak
13	8838.00	54.85	-19.15	74.00	43.73	36.20	10.29	35.37	100	206	Peak
14	8838.00	42.67	-11.33	54.00	31.55	36.20	10.29	35.37	100	206	Average



Test Mode :	Mode 4	Temperature :	28~29°C
Test Channel :	01	Relative Humidity :	42~44%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

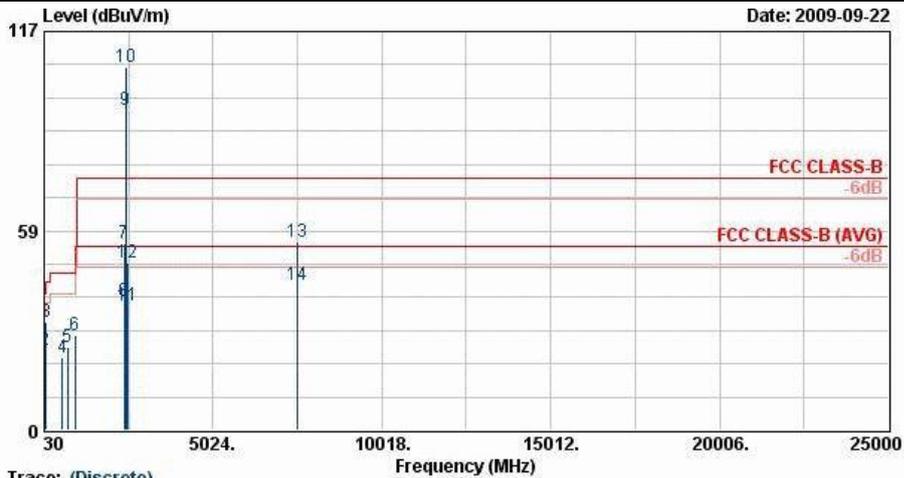


Trace: (Discrete)  
 Site : D3CH07-HY  
 Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL  
 Project : FR 961306-03

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBUV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBUV/m	dBUV	dB/m	dB	dB	cm	deg	
1 !	34.05	38.41	-1.59	40.00	51.70	17.74	0.67	31.70	100	352	QP
2	46.20	24.33	-15.67	40.00	44.48	10.80	0.76	31.70	---	---	Peak
3	92.64	36.62	-6.88	43.50	57.60	9.59	1.13	31.70	---	---	Peak
4	618.50	21.79	-24.21	46.00	29.74	19.72	3.31	30.98	---	---	Peak
5	727.70	24.52	-21.48	46.00	30.34	21.39	3.63	30.85	---	---	Peak
6	923.00	27.01	-18.99	46.00	29.87	23.61	4.21	30.68	---	---	Peak
7	2389.61	47.99	-6.01	54.00	44.78	32.13	5.46	34.38	118	53	Average
8	2389.61	66.43	-7.57	74.00	63.22	32.13	5.46	34.38	118	53	Peak
9 @	2412.00	89.79			86.57	32.16	5.44	34.38	118	53	Average
10 X	2412.00	100.64			97.42	32.16	5.44	34.38	118	53	Peak
11	2486.00	35.08	-18.92	54.00	31.82	32.27	5.38	34.40	118	53	Average
12	2486.00	46.96	-27.04	74.00	43.70	32.27	5.38	34.40	118	53	Peak
13	8289.00	55.22	-18.78	74.00	44.48	36.00	10.04	35.30	100	92	Peak
14	8289.00	42.80	-11.20	54.00	32.06	36.00	10.04	35.30	100	92	Average



Test Mode :	Mode 5	Temperature :	28~29°C
Test Channel :	06	Relative Humidity :	42~44%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

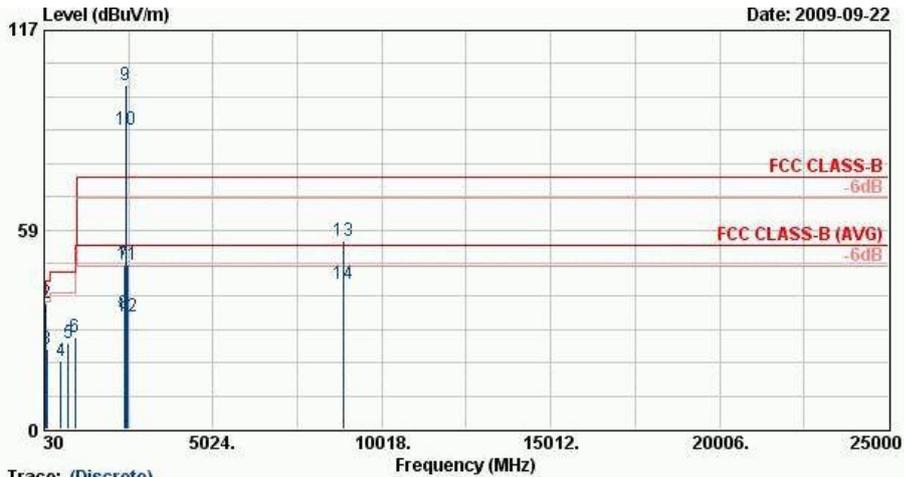


Trace: (Discrete)  
 Site : D3CH07-HY  
 Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL  
 Project : FR 961306-03

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	32.97	33.61	-6.39	40.00	46.36	18.28	0.66	31.70	100	274	Peak
2	43.50	23.53	-16.47	40.00	42.37	12.14	0.72	31.70	---	---	Peak
3	92.37	31.73	-11.77	43.50	52.85	9.46	1.12	31.70	---	---	Peak
4	559.00	21.09	-24.91	46.00	30.02	19.00	3.12	31.04	---	---	Peak
5	713.70	24.44	-21.56	46.00	30.57	21.15	3.59	30.87	---	---	Peak
6	951.70	27.65	-18.35	46.00	29.64	24.39	4.26	30.65	---	---	Peak
7	2390.00	54.70	-19.30	74.00	51.48	32.13	5.46	34.38	200	8	Peak
8	2390.00	37.83	-16.17	54.00	34.62	32.13	5.46	34.38	200	8	Average
9 @	2437.00	93.82			90.58	32.22	5.41	34.39	200	8	Average
10 X	2437.00	106.62			103.38	32.22	5.41	34.39	200	8	Peak
11	2484.00	36.51	-17.49	54.00	33.30	32.13	5.46	34.38	200	8	Average
12	2484.00	49.30	-24.70	74.00	46.04	32.27	5.38	34.40	200	8	Peak
13	7506.00	55.06	-18.94	74.00	44.72	35.90	9.64	35.20	100	149	Peak
14	7506.00	42.75	-11.25	54.00	32.41	35.90	9.64	35.20	100	149	Average



Test Mode :	Mode 5	Temperature :	28~29°C
Test Channel :	06	Relative Humidity :	42~44%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

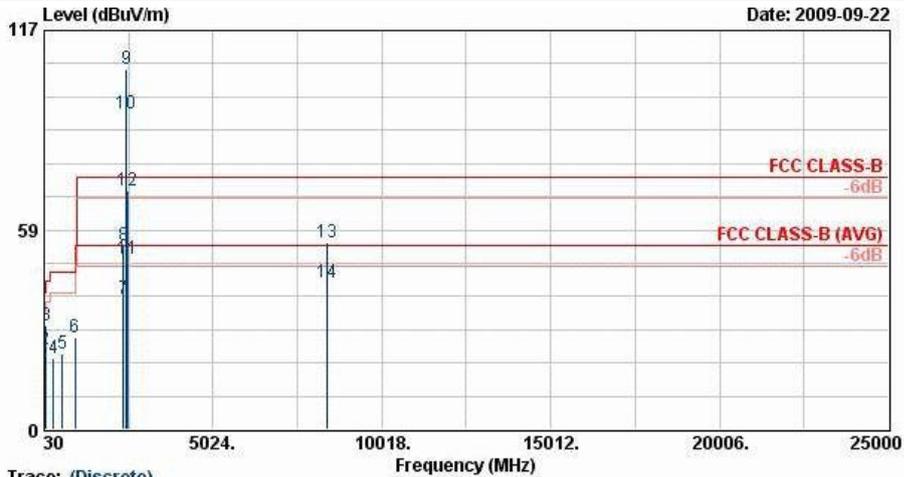


Trace: (Discrete)  
 Site : D3CH07-HY  
 Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL  
 Project : FR 961306-03

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBUV/m	dB	dBUV/m	dBUV	dB/m	dB	dB	cm	deg	
1 !	32.97	37.53	-2.47	40.00	50.29	18.28	0.66	31.70	100	350	QP
2	92.37	36.90	-6.60	43.50	58.02	9.46	1.12	31.70	---	---	Peak
3	107.49	23.65	-19.85	43.50	42.84	11.30	1.21	31.69	---	---	Peak
4	531.00	20.13	-25.87	46.00	29.54	18.63	3.03	31.07	---	---	Peak
5	747.30	25.17	-20.83	46.00	30.54	21.75	3.69	30.81	---	---	Peak
6	943.30	27.14	-18.86	46.00	29.33	24.22	4.25	30.66	---	---	Peak
7	2390.00	48.13	-25.87	74.00	44.92	32.13	5.46	34.38	100	214	Peak
8	2390.00	33.92	-20.08	54.00	30.71	32.13	5.46	34.38	100	214	Average
9 X	2437.00	100.96			97.73	32.19	5.43	34.39	100	214	Peak
10 @	2437.00	87.81			84.57	32.22	5.41	34.39	100	214	Average
11	2486.00	48.44	-25.56	74.00	45.18	32.27	5.38	34.40	100	214	Peak
12	2486.00	33.01	-20.99	54.00	29.75	32.27	5.38	34.40	100	214	Average
13	8886.00	55.12	-18.88	74.00	43.96	36.23	10.30	35.38	100	127	Peak
14	8886.00	42.81	-11.19	54.00	31.65	36.23	10.30	35.38	100	127	Average



Test Mode :	Mode 6	Temperature :	28~29°C
Test Channel :	11	Relative Humidity :	42~44%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

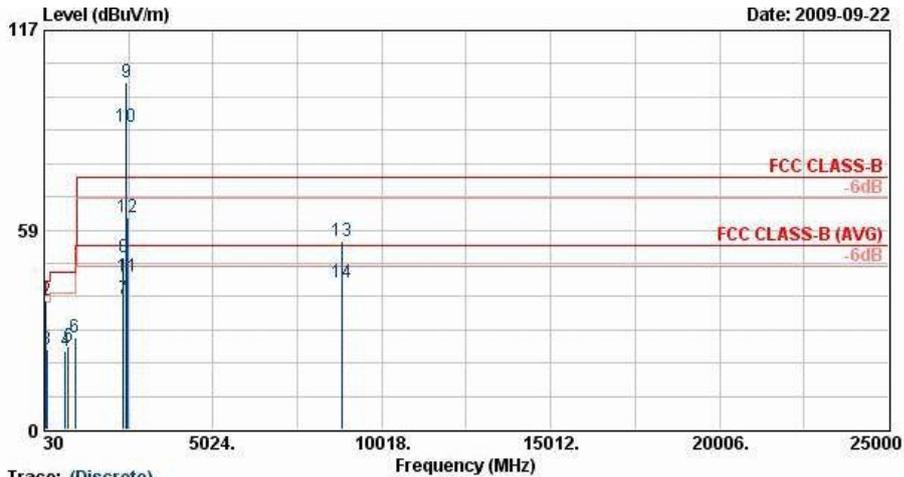


Trace: (Discrete)  
 Site : D3CH07-RY  
 Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL  
 Project : FR 961306-03

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 !	31.89	34.05	-5.95	40.00	46.27	18.82	0.66	31.70	100	123	Peak
2	44.58	23.66	-16.34	40.00	43.04	11.60	0.72	31.70	---	---	Peak
3	92.37	30.35	-13.15	43.50	51.47	9.46	1.12	31.70	---	---	Peak
4	307.00	20.83	-25.17	46.00	36.03	14.02	2.16	31.38	---	---	Peak
5	570.90	22.33	-23.67	46.00	31.04	19.15	3.16	31.03	---	---	Peak
6	939.80	26.81	-19.19	46.00	29.13	24.11	4.24	30.66	---	---	Peak
7	2380.00	38.46	-15.54	54.00	35.21	32.24	5.40	34.39	160	10	Average
8	2380.00	53.99	-20.01	74.00	50.79	32.11	5.47	34.38	160	10	Peak
9 X	2462.00	105.78			102.53	32.24	5.40	34.39	160	10	Peak
10 @	2462.00	92.71			89.46	32.24	5.40	34.39	160	10	Average
11 !	2483.66	50.06	-3.94	54.00	46.80	32.27	5.38	34.40	160	10	Average
12 !	2483.66	69.99	-4.01	74.00	66.73	32.27	5.38	34.40	160	10	Peak
13	8418.00	54.98	-19.02	74.00	44.16	36.00	10.12	35.30	100	209	Peak
14	8418.00	42.90	-11.10	54.00	32.08	36.00	10.12	35.30	100	209	Average



Test Mode :	Mode 6	Temperature :	28~29°C
Test Channel :	11	Relative Humidity :	42~44%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

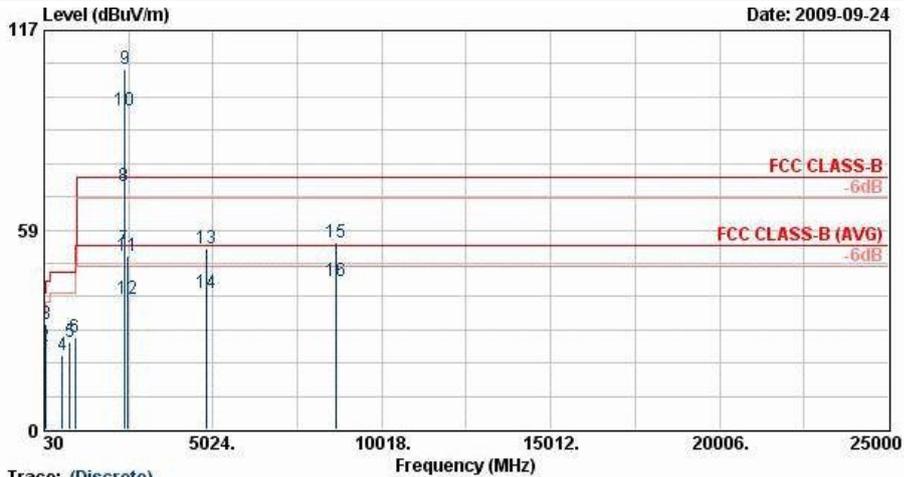


Trace: (Discrete)  
 Site : D3CH07-HY  
 Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL  
 Project : FR 961306-03

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 !	32.97	38.78	-1.22	40.00	51.54	18.28	0.66	31.70	100	349 QP	
2 !	92.37	37.91	-5.59	43.50	59.03	9.46	1.12	31.70	---	---	Peak
3	107.49	23.55	-19.95	43.50	42.74	11.30	1.21	31.69	---	---	Peak
4	663.30	22.97	-23.03	46.00	30.14	20.32	3.45	30.94	---	---	Peak
5	735.40	24.35	-21.65	46.00	29.99	21.54	3.66	30.83	---	---	Peak
6	940.50	27.04	-18.96	46.00	29.32	24.14	4.24	30.66	---	---	Peak
7	2380.00	38.44	-15.56	54.00	35.24	32.11	5.47	34.38	121	54	Average
8	2380.00	50.48	-23.52	74.00	47.28	32.11	5.47	34.38	121	54	Peak
9 X	2462.00	101.65			98.40	32.24	5.40	34.39	121	54	Peak
10 @	2462.00	88.91			85.66	32.24	5.40	34.39	121	54	Average
11	2483.85	44.62	-9.38	54.00	41.36	32.27	5.38	34.40	121	54	Average
12	2483.85	62.31	-11.69	74.00	59.05	32.27	5.38	34.40	121	54	Peak
13	8817.00	55.12	-18.88	74.00	44.01	36.19	10.28	35.36	100	129	Peak
14	8817.00	43.15	-10.85	54.00	32.04	36.19	10.28	35.36	100	129	Average



Test Mode :	Mode 7	Temperature :	28~29°C
Test Channel :	01	Relative Humidity :	42~44%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		

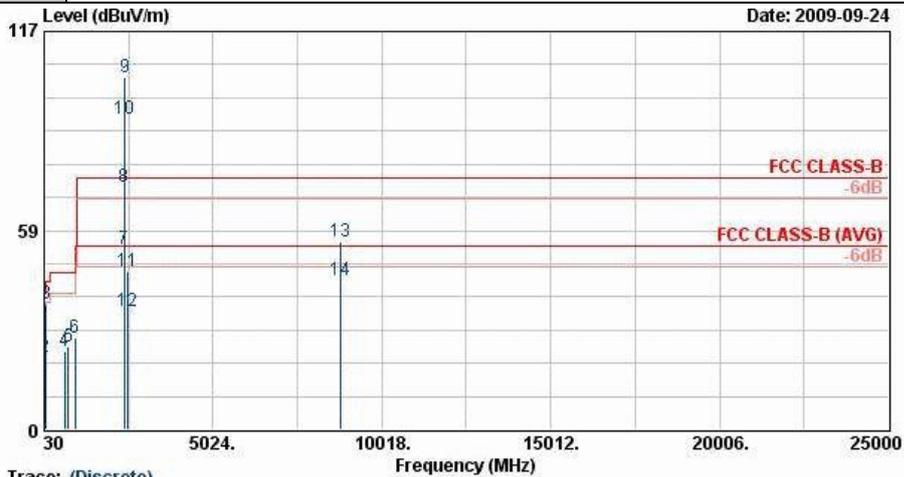


Trace: (Discrete)  
 Site : D3CH07-RY  
 Condition : FCC CLASS-B 3m SHF-EHF HORN HORIZONTAL  
 Project : FR 961306-03

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 !	31.89	34.85	-5.15	40.00	47.07	18.82	0.66	31.70	100	134	Peak
2	44.58	24.21	-15.79	40.00	43.59	11.60	0.72	31.70	---	---	Peak
3	92.37	30.89	-12.61	43.50	52.01	9.46	1.12	31.70	---	---	Peak
4	578.60	21.82	-24.18	46.00	30.41	19.25	3.18	31.02	---	---	Peak
5	788.60	25.49	-20.51	46.00	30.53	21.88	3.82	30.72	---	---	Peak
6	953.80	27.02	-18.98	46.00	29.01	24.38	4.27	30.65	---	---	Peak
7 !	2389.99	52.94	-1.06	54.00	49.73	32.13	5.46	34.38	200	118	Average
8 !	2389.99	71.16	-2.84	74.00	67.95	32.13	5.46	34.38	200	118	Peak
9 X	2412.00	105.55			102.32	32.16	5.44	34.38	200	118	Peak
10 @	2412.00	93.48			90.26	32.16	5.44	34.38	200	118	Average
11	2492.00	50.86	-23.14	74.00	47.59	32.30	5.37	34.40	200	118	Peak
12	2492.00	38.13	-15.87	54.00	34.86	32.30	5.37	34.40	200	118	Average
13	4824.00	53.26	-20.74	74.00	45.92	34.33	7.81	34.80	100	351	Peak
14	4824.00	40.07	-13.93	54.00	32.73	34.33	7.81	34.80	100	351	Average
15	8646.00	54.88	-19.12	74.00	43.89	36.09	10.23	35.33	100	121	Peak
16	8646.00	43.50	-10.50	54.00	32.51	36.09	10.23	35.33	100	121	Average



Test Mode :	Mode 7	Temperature :	28~29°C
Test Channel :	01	Relative Humidity :	42~44%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	#9 and #10 are Fundamental Signals which can be ignored.		



Trace: (Discrete)  
 Site : D3CH07-HY  
 Condition : FCC CLASS-B 3m SHF-EHF HORN VERTICAL  
 Project : FR 961306-03

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1 !	34.05	38.23	-1.77	40.00	51.52	17.74	0.67	31.70	100	352	QP
2	63.21	21.30	-18.70	40.00	45.91	6.17	0.93	31.70	---	---	Peak
3	92.37	36.93	-6.57	43.50	58.05	9.46	1.12	31.70	---	---	Peak
4	643.00	22.88	-23.12	46.00	30.43	20.02	3.39	30.96	---	---	Peak
5	738.90	24.50	-21.50	46.00	30.05	21.61	3.67	30.82	---	---	Peak
6	939.80	26.99	-19.01	46.00	29.31	24.11	4.24	30.66	---	---	Peak
7 !	2389.99	52.85	-1.15	54.00	49.64	32.13	5.46	34.38	127	47	Average
8 !	2389.99	71.26	-2.74	74.00	68.05	32.13	5.46	34.38	127	47	Peak
9 X	2412.00	103.35			100.13	32.16	5.44	34.38	127	47	Peak
10 @	2412.00	91.14			87.92	32.16	5.44	34.38	127	47	Average
11	2494.00	46.64	-27.36	74.00	43.37	32.30	5.37	34.40	127	47	Peak
12	2494.00	34.92	-19.08	54.00	31.65	32.30	5.37	34.40	127	47	Average
13	8814.00	55.42	-18.58	74.00	44.31	36.19	10.28	35.36	100	218	Peak
14	8814.00	43.85	-10.15	54.00	32.74	36.19	10.28	35.36	100	218	Average



## **3.8 Antenna Requirements**

### **3.8.1 Standard Applicable**

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

### **3.8.2 Antenna Connected Construction**

The antennas type used in this product is PIFA Antenna without connector and it is considered to meet antenna requirement.

### **3.8.3 Antenna Gain**

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Spectrum Analyzer	R&S	FSP40	100055	9kHz~40GHz	Jun. 23, 2009	Jun. 22, 2010	Conducted (TH02-HY)
Power Meter	Anritsu	ML2495A	0842015	N/A	Oct. 21, 2008	Oct. 20, 2009	Conducted (TH02-HY)
Power Sensor	Anritsu	MA2411B	0738448	N/A	Oct. 09, 2008	Oct. 08, 2009	Conducted (TH02-HY)
EMI Test Receive	R&S	ESCS 30	100356	9KHz – 2.75GHz	Aug. 05, 2009	Aug. 04, 2010	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100081	9kHz~30MHz	Nov. 26, 2008	Nov. 25, 2009	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100080	9kHz~30MHz	Nov. 26, 2008	Nov. 25, 2009	Conduction (CO05-HY)
AC Power Source	APC	APC-1000W	N/A	N/A	N/A	N/A	Conduction (CO05-HY)
System Simulator	R&S	CMU200	105934	N/A	Nov. 11, 2008	Nov. 10, 2010	Conduction (CO05-HY)
GPS Station	T&E	GS-50	N/A	N/A	N/A	N/A	Conduction (CO05-HY)
Bilog Antenna	SCHAFFNER	CBL6111C	2726	30MHz ~ 1GHz	Nov. 20, 2008	Nov. 19, 2009	Radiation (03CH07-HY)
Spectrum Analyzer	R&S	FSP	101067	9KHz ~ 30GHz	Dec. 02, 2008	Dec. 01, 2009	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 20, 2009	Aug. 19, 2010	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz- 40GHz	Oct. 16, 2008	Oct. 15, 2009	Radiation (03CH07-HY)
Pre Amplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Dec. 17, 2008	Dec. 16, 2009	Radiation (03CH07-HY)
Pre Amplifier	COM-POWER	PA-103A	161241	10-1000MHz.32 dB.GAIN	Mar. 27, 2009	Mar. 26, 2010	Radiation (03CH07-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 KHz~30 MHz	May 22, 2008	May 21, 2010	Radiation (03CH07-HY)

## 5 Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Contribution	Uncertainty of $x_i$		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.10	Normal(k=2)	0.05
Cable loss	0.10	Normal(k=2)	0.05
AMN insertion loss	2.50	Rectangular	0.63
Receiver Spec	1.50	Rectangular	0.43
Site imperfection	1.39	Rectangular	0.80
Mismatch	+0.34/-0.35	U-shape	0.24
<b>Combined standard uncertainty Uc(y)</b>	<b>1.13</b>		
<b>Measuring uncertainty for a level of confidence of 95% U=2Uc(y)</b>	<b>2.26</b>		

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Contribution	Uncertainty of $x_i$		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.41	Normal(k=2)	0.21
Antenna factor calibration	0.83	Normal(k=2)	0.42
Cable loss calibration	0.25	Normal(k=2)	0.13
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.43	Rectangular	0.83
Mismatch	+0.39/-0.41	U-shaped	0.28
<b>Combined standard uncertainty Uc(y)</b>	<b>1.27</b>		
<b>Measuring uncertainty for a level of confidence of 95% U=2Uc(y)</b>	<b>2.54</b>		



**Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)**

Contribution	Uncertainty of $x_i$		$u(x_i)$	$C_i$	$C_i * u(x_i)$
	dB	Probability Distribution			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20 \log(1 - \Gamma_1 * \Gamma_2)$	+0.34/-0.35	U-shaped	0.244	1	0.244
<b>Combined standard uncertainty <math>U_c(y)</math></b>	<b>2.36</b>				
<b>Measuring uncertainty for a level of confidence of 95% <math>U = 2U_c(y)</math></b>	<b>4.72</b>				

## 6 Certification of TAF Accreditation



Certificate No. : L1190-090417

財團法人全國認證基金會  
Taiwan Accreditation Foundation

### Certificate of Accreditation

This is to certify that

**Sporton International Inc.**  
**EMC & Wireless Communications Laboratory**  
No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien,  
Taiwan, R.O.C.

**is accredited in respect of laboratory**

<b>Accreditation Criteria</b>	: ISO/IEC 17025:2005
<b>Accreditation Number</b>	: 1190
<b>Originally Accredited</b>	: December 15, 2003
<b>Effective Period</b>	: January 10, 2007 to January 09, 2010
<b>Accredited Scope</b>	: Testing Field, see described in the Appendix
<b>Specific Accreditation Program</b>	: Accreditation Program for Designated Testing Laboratory for Commodities Inspection Accreditation Program for Telecommunication Equipment Testing Laboratory Accreditation Program for BSMI Mutual Recognition Arrangement with Foreign Authorities

  
Jay-San Chen  
President, Taiwan Accreditation Foundation  
Date : April 17, 2009

Pl, total 20 pages

The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix



## **Appendix A. Photographs of EUT**

Please refer to Sporton report number EP961306-03 as below.