

FCC/IC RF Test Report

APPLICANT : Sony Mobile Communications AB
EQUIPMENT : Smart phone
BRAND NAME : Sony
MODEL NAME : PM-0261-BV
MARKETING NAME : C1604
FCC ID : PY7PM-0261
IC : 4170B-PM0261
STANDARD : FCC 47 CFR PART 15:2012 SUBPART C
IC RSS-210 issue 8
IC RSS-GEN issue 3
CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Sep. 04, 2012 and completely tested on Oct. 19, 2012. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures 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:



Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

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FCC ID : PY7PM-0261

IC : 4170B-PM0261

Page Number : 1 of 115

Report Issued Date : Dec. 11, 2012

Report Version : Rev. 04



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REVISION HISTORY

[illegible]

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	RSS-210 A8.2(a)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	RSS-Gen 4.6.1	99% Bandwidth	-	Pass	-
0	15.247(b)	RSS-210 A8.4	Power Output Measurement	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	RSS-210 A8.2(b)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	RSS-210 A8.5	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	-
			Conducted Spurious Emission		Pass	-
3.5	15.247(d)	RSS-210 A8.5	Radiated Band Edges	15.209(a) & 15.247(d)	Pass	Under limit 3.07 dB at 2483.500 MHz
			Radiated Spurious Emission		Pass	
3.6	15.207	RSS-Gen 7.2.4	AC Conducted Emission	15.207(a)	Pass	Under limit 12.10 dB at 0.462 MHz
3.7	15.203 & 15.247(b)	RSS-210 A8.4	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

Sony Mobile Communications AB

Nya Vattentornet, 22188 Lund, Sweden

1.2 Manufacturer

Arima Communications Corp.

6F., No. 866, Jhongjheng Rd., Jhonghe City, Taipei County 23586, Taiwan

1.3 Feature of Equipment Under Test

The Equipment Under Test (hereafter called: EUT) is mobile phone supporting, GSM / WCDMA / Wi-Fi 2.4GHz 802.11b/g/n, Bluetooth with FM Receiver, and GPS features, and below is details of information.

General Information of Equipment Under Test	
Equipment	Smart phone
Brand Name	Sony
Model Name	PM-0261-BV
Marketing Name	C1604
FCC ID	PY7PM-0261
IC	4170B-PM0261
GSM Operating Band(s)	GSM 850/900/1800/1900MHz
WCDMA Operating Band(s)	FDD Band I / II / V
WCDMA Rel. Version	Rel. 6
GPRS / EGPRS Multi Slot Class	GPRS Class 12 , EGPRS Class 12
Wi-Fi Specification	802.11b/g/n (HT20)
Bluetooth Version	V2.1 + EDR / V3.0
Power Supply	Battery / AC Adapter /Car Charger

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Details of Tested Sample (EUT) Information

Product Specification subjective to this standard	
Transmitter / Receiver Frequency Range	2412 MHz ~ 2462 MHz
Number of Channels	11
Carrier Frequency of Each Channel	2412+(n-1)*5 MHz; n=1~11
Maximum Output Power to Antenna	802.11b : 17.82 dBm (0.0605 W) 802.11g : 22.18 dBm (0.1652 W) 802.11n HT20 : 20.67 dBm (0.1167 W)
99% Occupied Bandwidth	802.11b : 14.30MHz 802.11g : 18.30MHz 802.11n HT20 : 19.00MHz
Antenna Type / Gain	PIFA Antenna with gain 0.80 dBi
Type of Modulation	802.11b : DSSS (BPSK / QPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)
WLAN Data Rate	802.11b : 1/2/5.5/11 Mbps 802.11g : 6/9/12/18/24/36/48/54 Mbps 802.11n HT20 : 6.5/13/19.5/26/39/52/58.5/65 Mbps
EUT #1	IMEI : 00440214-621325-5 S/N : WUJ012D9FV
EUT #2	IMEI : 00440214-621361-0 S/N : WUJ012D9F8
H/W :	SP
S/W :	11.1.A.0.21
EUT Stage	Production Unit

Accessory List	
AC Adapter	Model No. : EP800
	Type No. : CAA-00002016-BV B
Battery	Model No. : BA700
	Type No. : CBA-0002025
Earphone	Model No. : MH410c
	Type No. : AG-1100
USB Cable	Model No. : EC450
	Part No. : 1242-6715.2

Note:

1. Above EUT list and accessory list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test, and the serial number of each type of accessories is listed in each section of this report.
3. No modifications are made to the EUT during all test items.
4. For other wireless features of this EUT, test report will be issued separately.

1.5 Testing Facility

Test Site	SPORTON INTERNATIONAL INC.			
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-3273456 / FAX: +886-3-3284978			
Test Site No.	Sporton Site No.			FCC/IC Registration No.
	TH02-HY	CO05-HY	03CH05-HY	722060/4086B-1

1.6 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 D01 DTS Meas Guidance v02
- ♦ ANSI C63.4-2003 and ANSI C63.10-2009
- ♦ IC RSS-210 Issue 8
- ♦ RSS-GEN Issue 3 with NOTICE 2012-DRS0126

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. Per the section 2.2.3 of Notice of 2012-DRS0126, " Receivers Excluded from Industry Canada Requirements" Only radio communication receivers operating in stand-alone mode within the band 30-960 MHz and scanner receivers are subject to Industry Canada requirements.

2 Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

a. Preliminary tests were performed in different data rates as following table and the highest power data rates were chosen for full test in the following tables.

2.4GHz 802.11b mode				
Data Rate (bps)	1M bps	2M bps	5.5M bps	11M bps
Peak Power (dBm)	17.82	17.78	17.80	17.79

2.4GHz 802.11g mode								
Data Rate (bps)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Peak Power (dBm)	22.18	22.13	22.09	21.07	21.01	22.15	22.11	22.09

2.4GHz 802.11n HT20 mode								
Data Rate (bps)	6.5M bps	13M bps	19.5M bps	26M bps	39M bps	52M bps	58.5M bps	65M bps
Peak Power (dBm)	20.67	20.55	20.63	20.65	20.60	20.51	20.65	17.95

Note: The data rates of WLAN 802.11b was set in 1Mbps for 802.11b, 6Mbps for 802.11g, and 6.5Mbps for 802.11n HT20 for all test cases due to the highest RF output power.

b. The EUT has been associated with peripherals 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) and radiated emission (9 KHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report. The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes.

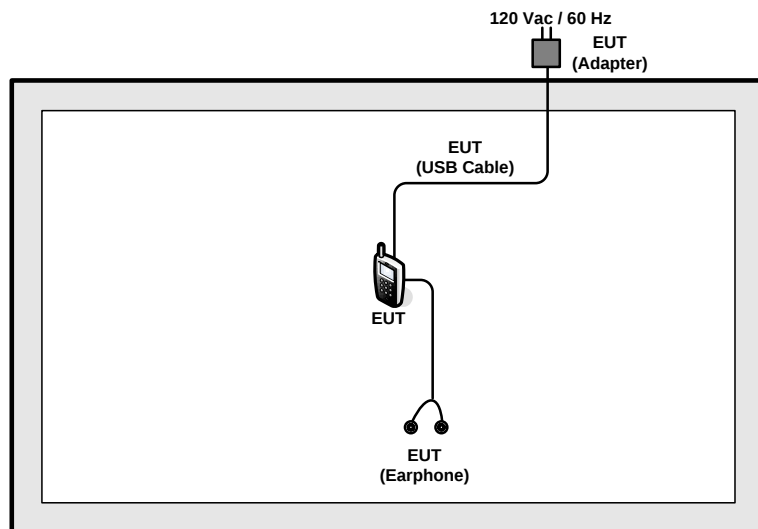
c. The AC power line Conducted Emissions was tested under the WLAN set in maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard of the FCC 15.247.

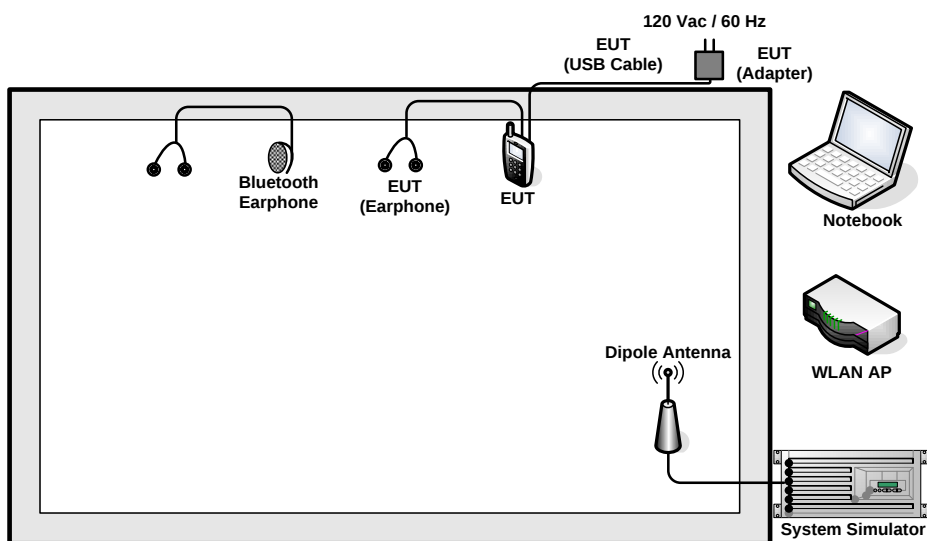
Summary table of Test Cases				
Conducted TCs	Test Items	Mode	Data Rate	Test Channel
	6dB and 99% BW Power Spectral Density	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11n HT20	6.5 Mbps	1/6/11
	Output Power	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11n HT20	6.5 Mbps	1/6/11
	Conducted Band-edge	802.11b	1 Mbps	1/11
		802.11g	6 Mbps	1/11
		802.11n HT20	6.5 Mbps	1/11
	Conducted Spurious Emission	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11n HT20	6.5 Mbps	1/6/11
Radiated TCs	Radiated Band-edge	802.11b	1 Mbps	1/11
		802.11g	6 Mbps	1/11
		802.11n HT20	6.5 Mbps	1/11
	Radiated Spurious Emission	802.11b	1 Mbps	1/6/11
		802.11g	6 Mbps	1/6/11
		802.11n HT20	6.5 Mbps	1/6/11
AC Conducted Emission	Mode 1 GSM850 Idle + Bluetooth Link + WLAN Link + MPEG4 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1			

2.2 Connection Diagram of EUT Test Configurations

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.3 Supported Unit used in test configuration and system

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.	WLAN AP	D-Link	DIR-628	KA2DIR628A2	N/A	Unshielded, 1.8 m
3.	Bluetooth Earphone	Sony Ericsson	MW600	PY70DA2029	N/A	N/A
4.	Notebook	DELL	Latitude E6320	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.4 Description of EUT Operation Test Setup

The programmed RF utility "CMD" is installed in notebook make the EUT 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 and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

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

99% Bandwidth is reporting only.

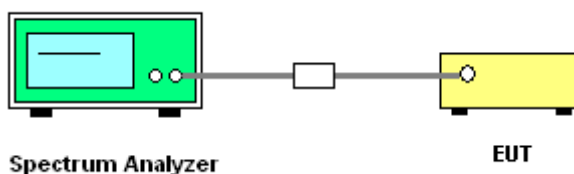
3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3 Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v02.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) =100kHz. Set the Video bandwidth (VBW) $\geq 3 * RBW$. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 KHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW) $\geq 3 * RBW$, and reported.

3.1.4 Test Setup



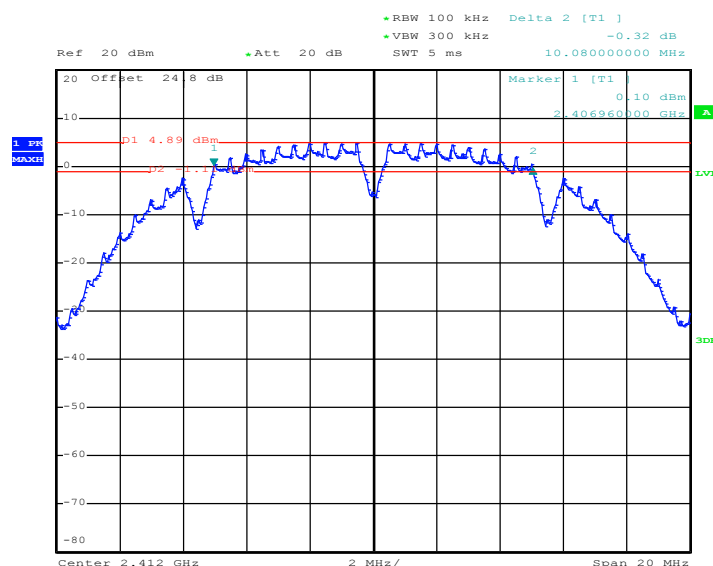


3.1.5 Test Result of 6dB Bandwidth

Test Mode :	802.11b	Temperature :	24~26°C
Test Engineer :	Reece Li	Relative Humidity :	50~53%

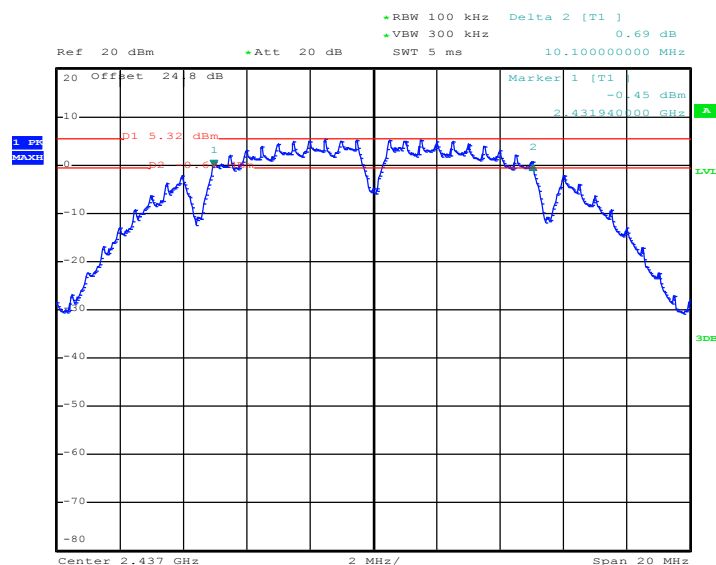
Channel	Frequency (MHz)	802.11b 6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
01	2412	10.08	0.5	Pass
06	2437	10.10	0.5	Pass
11	2462	10.10	0.5	Pass

6 dB Bandwidth Plot on 802.11b Channel 01

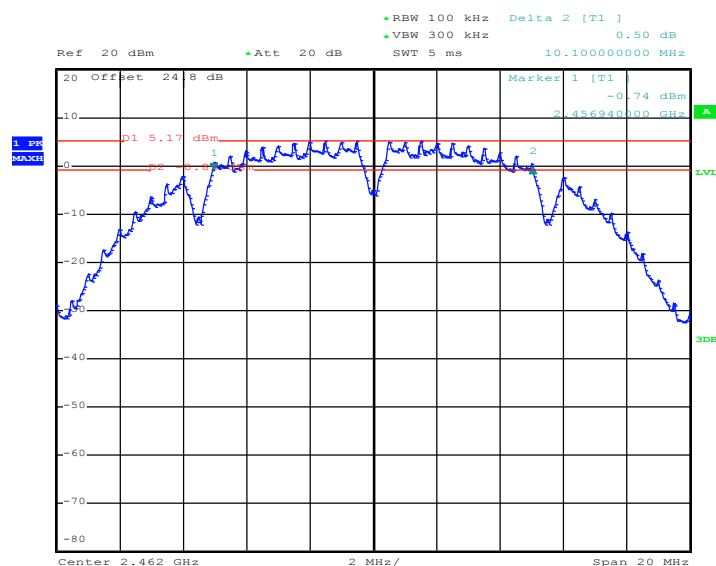


Note: The total loss is 24.8dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.

6 dB Bandwidth Plot on 802.11b Channel 06



6 dB Bandwidth Plot on 802.11b Channel 11

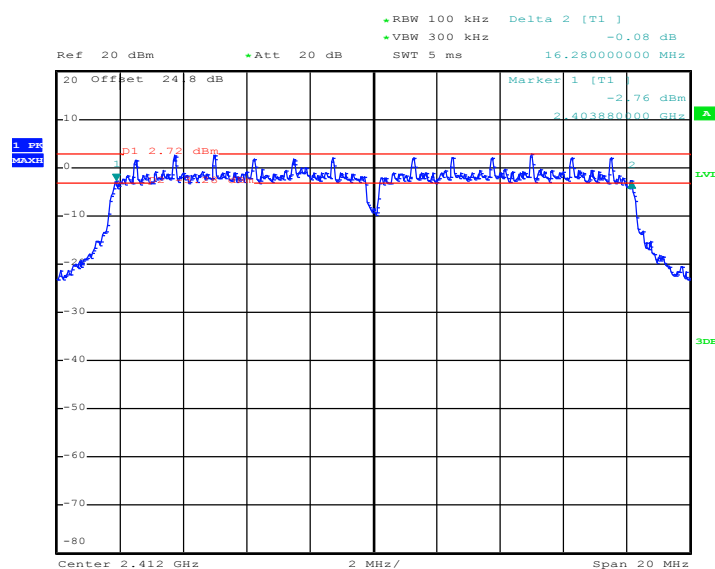




Test Mode :	802.11g	Temperature :	24~26°C
Test Engineer :	Reece Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	802.11g 6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
01	2412	16.28	0.5	Pass
06	2437	16.32	0.5	Pass
11	2462	16.28	0.5	Pass

6 dB Bandwidth Plot on 802.11g Channel 01



Note: The total loss is 24.8dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.

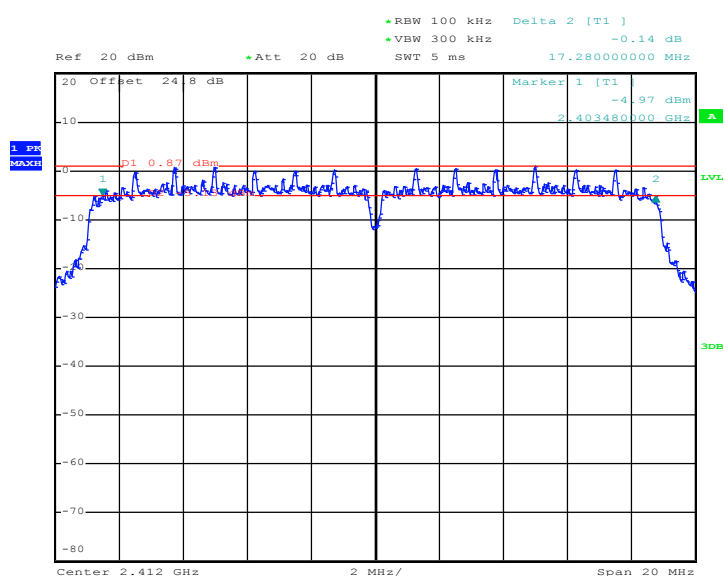




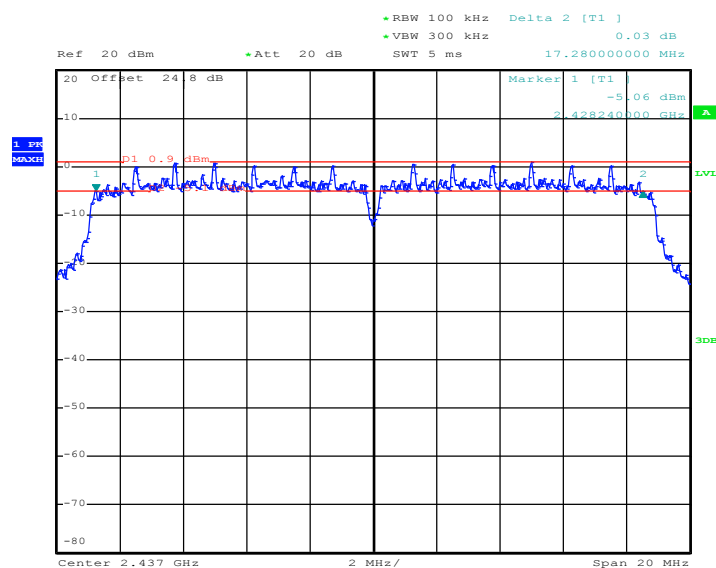
Test Mode :	802.11n HT20	Temperature :	24~26°C
Test Engineer :	Reece Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	2.4GHz 802.11n HT20 6dB Bandwidth (MHz)	6dB Bandwidth Min. Limit (MHz)	Pass/Fail
01	2412	17.28	0.5	Pass
06	2437	17.28	0.5	Pass
11	2462	17.28	0.5	Pass

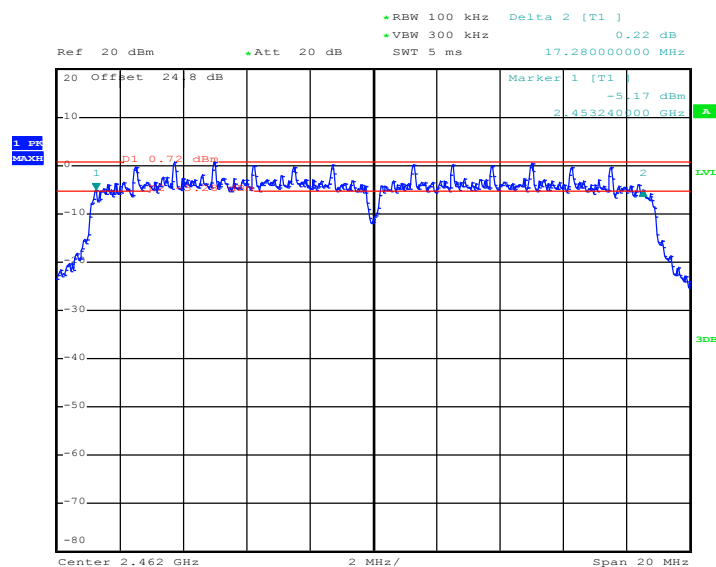
6 dB Bandwidth Plot on 802.11n HT20 Channel 01



Note: The total loss is 24.8dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.



6 dB Bandwidth Plot on 802.11n HT20 Channel 11

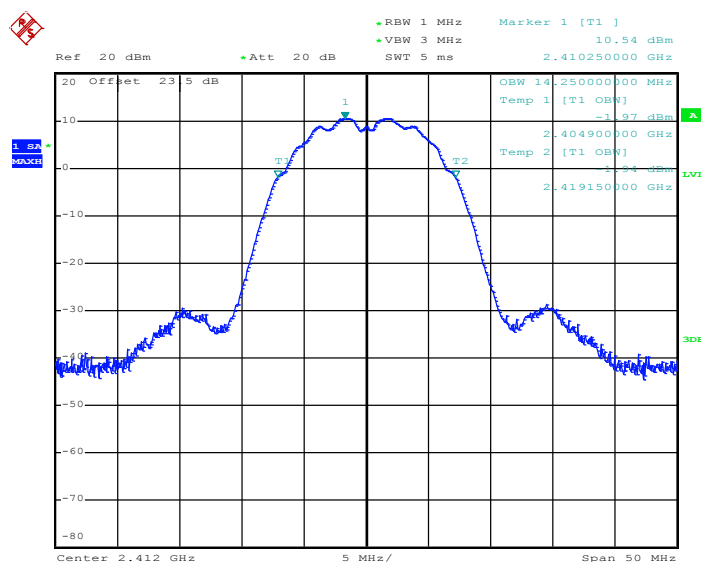


3.1.6 Test Result of 99% Occupied Bandwidth

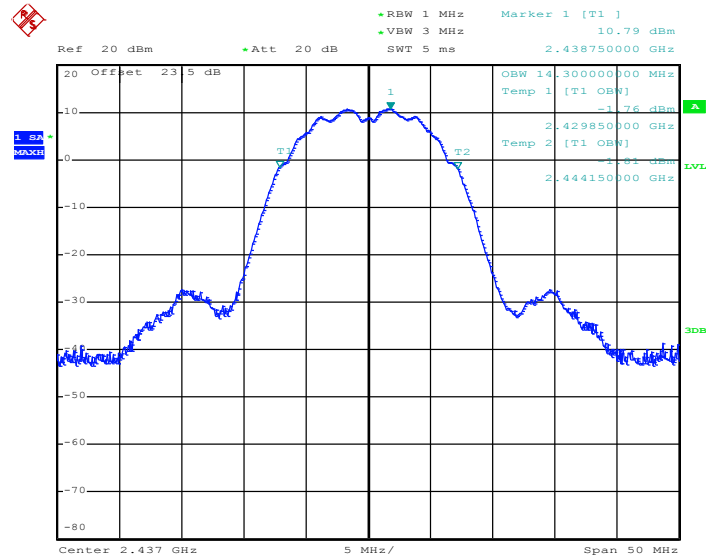
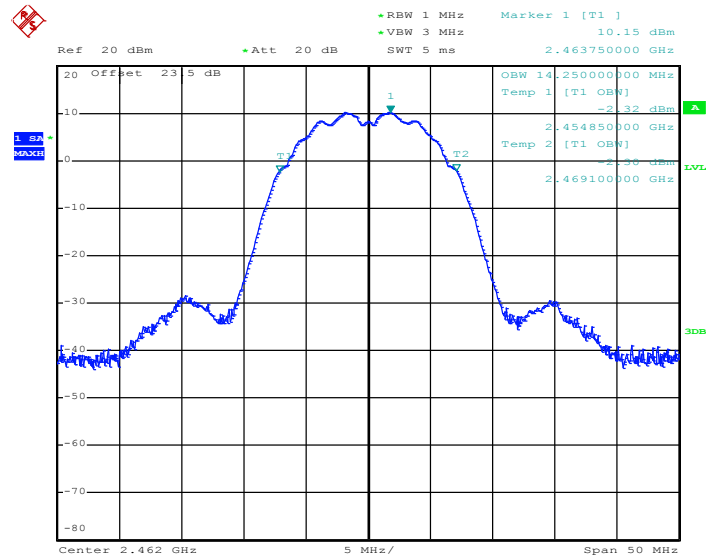
Test Mode :	802.11b	Temperature :	24~26℃
Test Engineer :	Reece Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	802.11b 99% Occupied Bandwidth (MHz)	Pass/Fail
01	2412	14.25	Pass
06	2437	14.30	Pass
11	2462	14.25	Pass

99% Occupied Bandwidth Plot on 802.11b Channel 01



Note: The total loss is 23.5dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.

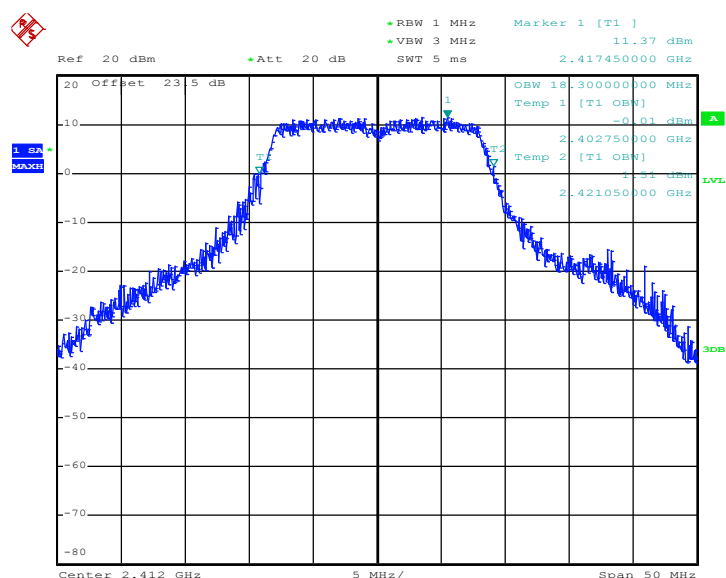
99% Occupied Bandwidth Plot on 802.11b Channel 06

99% Occupied Bandwidth Plot on 802.11b Channel 11




Test Mode :	802.11g	Temperature :	24~26°C
Test Engineer :	Reece Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	802.11g 99% Occupied Bandwidth (MHz)	Pass/Fail
01	2412	18.30	Pass
06	2437	18.30	Pass
11	2462	18.20	Pass

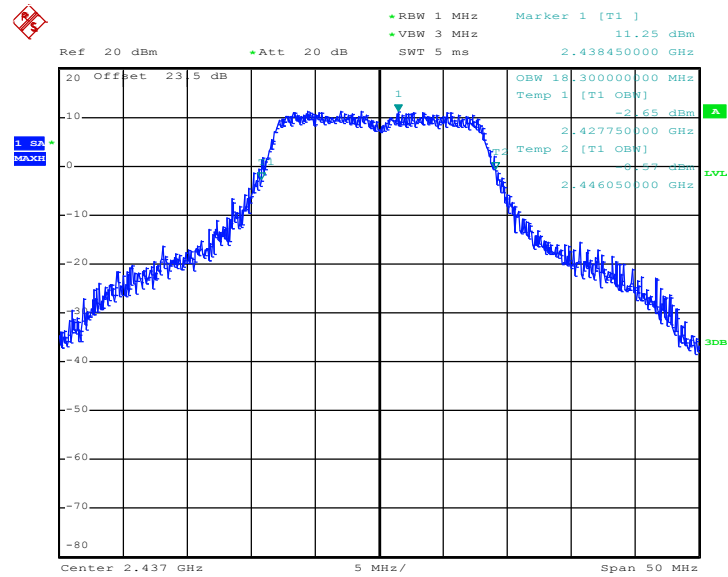
99% Occupied Bandwidth Plot on 802.11g Channel 01



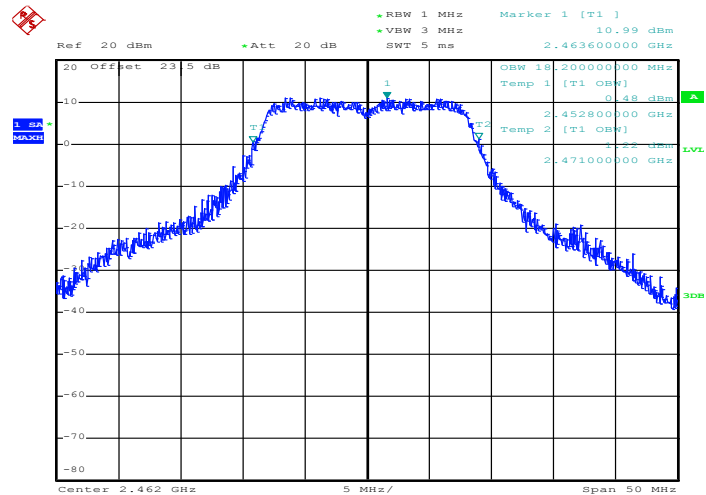
Note: The total loss is 23.5dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.



99% Occupied Bandwidth Plot on 802.11g Channel 06



99% Occupied Bandwidth Plot on 802.11g Channel 11

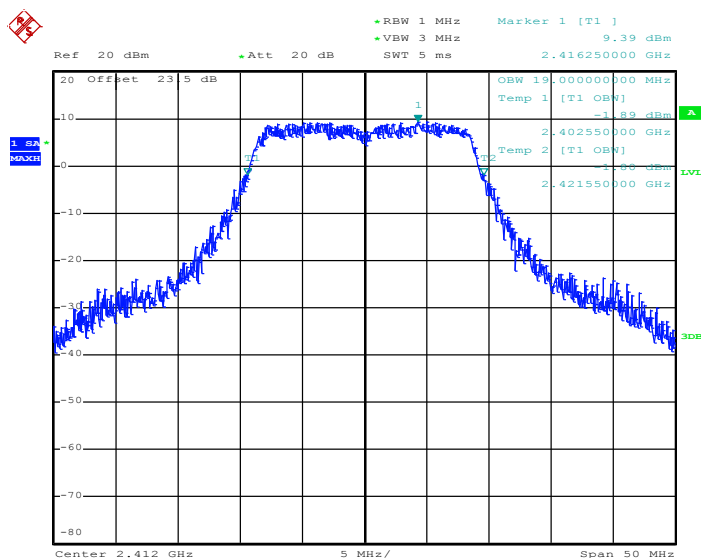




Test Mode :	802.11n HT20	Temperature :	24~26°C
Test Engineer :	Reece Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	2.4GHz 802.11n HT20 99% Occupied Bandwidth (MHz)	Pass/Fail
01	2412	19.00	Pass
06	2437	18.95	Pass
11	2462	18.90	Pass

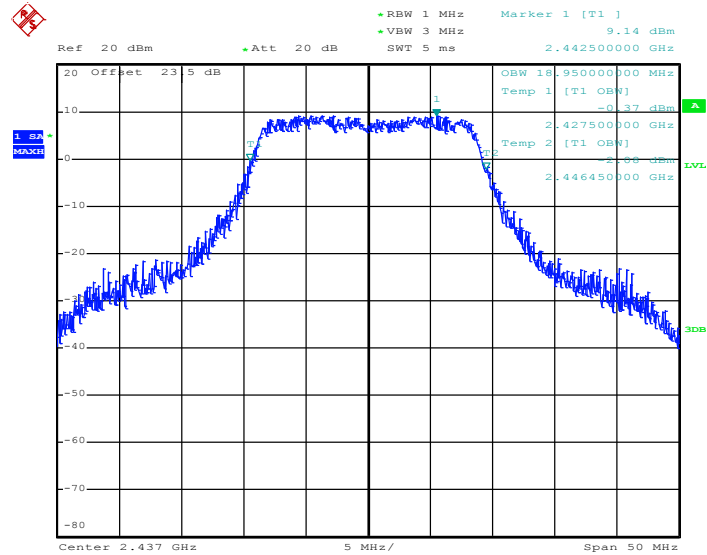
99% Occupied Bandwidth Plot 802.11n HT20 Channel 01



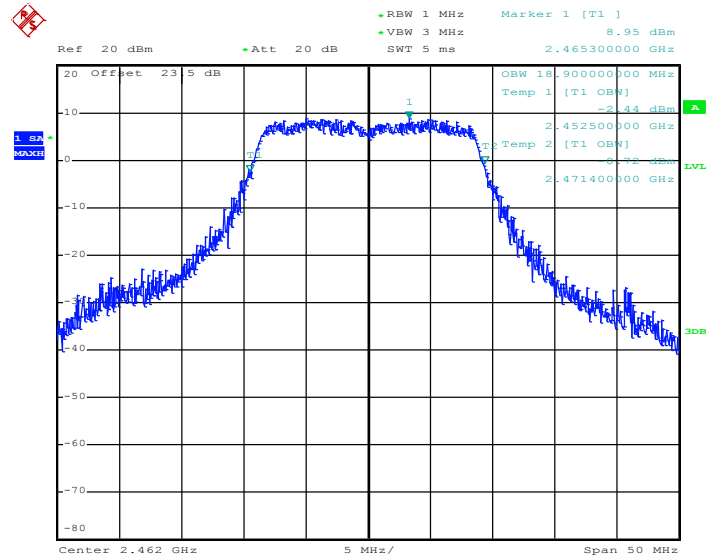
Note: The total loss is 23.5dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.



99% Occupied Bandwidth Plot 802.11n HT20 Channel 06



99% Occupied Bandwidth Plot 802.11n HT20 Channel 11



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.

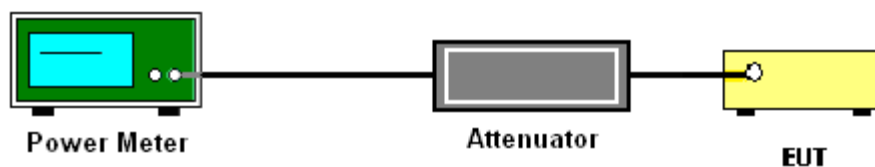
3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB Publication No.558074 DTS D01 Meas. Guidance v02.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power with RF cable loss and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Test Mode :	802.11b	Temperature :	24~26°C
Test Engineer :	Reece Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	802.11b Peak Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	17.57	30	Pass
06	2437	17.82	30	Pass
11	2462	17.24	30	Pass

Test Mode :	802.11g	Temperature :	24~26°C
Test Engineer :	Reece Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	802.11g Peak Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	22.00	30	Pass
06	2437	22.18	30	Pass
11	2462	21.83	30	Pass

Test Mode :	802.11n HT20	Temperature :	24~26°C
Test Engineer :	Reece Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	2.4GHz 802.11n HT20 Peak Output Power (dBm)	Max. Limits (dBm)	Pass/Fail
01	2412	20.67	30	Pass
06	2437	20.61	30	Pass
11	2462	20.35	30	Pass

Note: Peak Output Power is not required to add the duty cycle factor.

3.2.6 Test Result of Average output Power (Reporting Only)

Test Mode :	802.11b	Temperature :	24~26
Test Engineer :	Reece Li	Relative Humidity :	50~53
Duty Cycle:	100.00%	Duty Factor:	0.00dB

Channel	Frequency (MHz)	802.11b Average Output Power (dBm)
01	2412	15.30
06	2437	15.59
11	2462	14.99

Test Mode :	802.11g	Temperature :	24~26
Test Engineer :	Reece Li	Relative Humidity :	50~53
Duty Cycle:	98.10%	Duty Factor:	0.08dB

Channel	Frequency (MHz)	802.11g Average Output Power (dBm)
01	2412	14.07
06	2437	14.71
11	2462	13.48

Test Mode :	802.11n HT20	Temperature :	24~26
Test Engineer :	Reece Li	Relative Humidity :	50~53
Duty Cycle:	97.46%	Duty Factor:	0.11dB

Channel	Frequency (MHz)	802.11n HT20 Average Output Power (dBm)
01	2412	12.71
06	2437	12.65
11	2462	11.79

Note:

1. Average Output Power equals to Measured Output Power adds the duty factor.
2. The average power is measured by power meter with average power sensor and is reporting only.

3.3 Power Spectral Density Measurement

3.3.1 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.

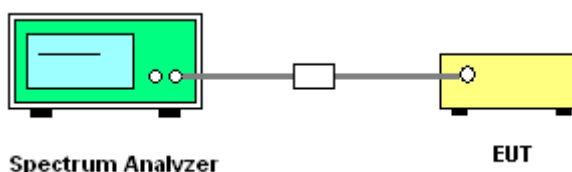
3.3.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.3.3 Test Procedures

1. The testing follows the Measurement Procedure 9.1 Option of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v02.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure the peak power spectral density with RF cable loss and record the results in the test report.
7. Additionally measure the peak power spectral density by setting RBW = 100KHz, and the Measured power density (dBm)/ 100KHz is used as a reference level and used as 20dBc down for Conducted Band Edges and Conducted Spurious Emission limit line.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Test Mode :	802.11b	Temperature :	24~26℃
Test Engineer :	Reece Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	802.11b Power Density		Max. Limits (dBm)	Pass/Fail
		PSD/100KHz (dBm)	PSD/3KHz (dBm)		
01	2412	4.75	-9.78	8	Pass
06	2437	4.77	-9.75	8	Pass
11	2462	4.76	-9.17	8	Pass

Test Mode :	802.11g	Temperature :	24~26℃
Test Engineer :	Reece Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	802.11g Power Density		Max. Limits (dBm)	Pass/Fail
		PSD/100KHz (dBm)	PSD/3KHz (dBm)		
01	2412	2.34	-12.01	8	Pass
06	2437	2.40	-14.14	8	Pass
11	2462	2.03	-13.15	8	Pass

Test Mode :	802.11n HT20	Temperature :	24~26℃
Test Engineer :	Reece Li	Relative Humidity :	50~53%

Channel	Frequency (MHz)	802.11n HT20 Power Density		Max. Limits (dBm)	Pass/Fail
		PSD/100KHz (dBm)	PSD/3KHz (dBm)		
01	2412	0.52	-15.10	8	Pass
06	2437	0.87	-14.96	8	Pass
11	2462	0.68	-13.87	8	Pass

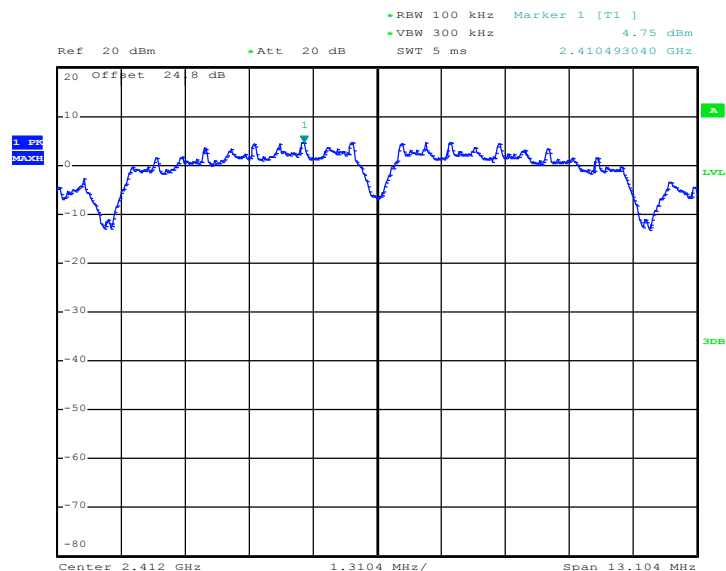
Note:

1. The total loss is 24.8dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. Peak Power Spectral Density is not required to Measured Output Power adds the duty factor.
3. The Measured power density (dBm)/ 100KHz is reference level and used as 20dBc down for Conducted Band Edges and Conducted Spurious Emission limit line.

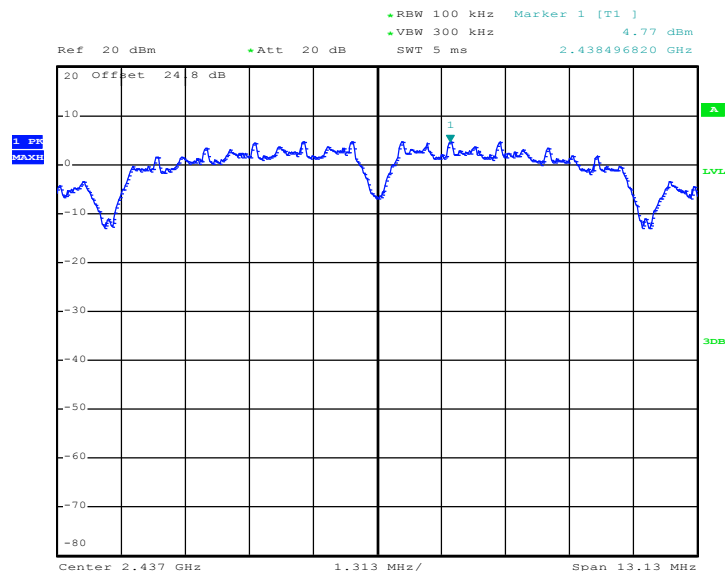


3.3.6 Test Result of Power Spectral Density Plots (100kHz)

PSD Plot on 802.11b Channel 01

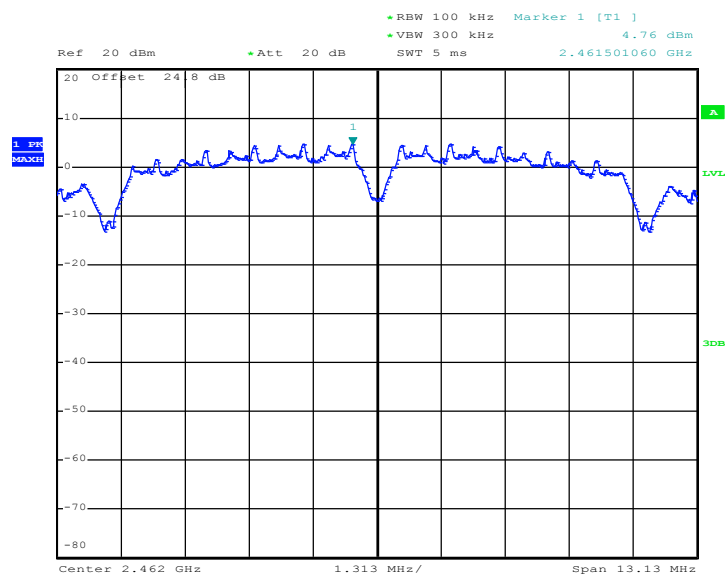


PSD Plot on 802.11b Channel 06

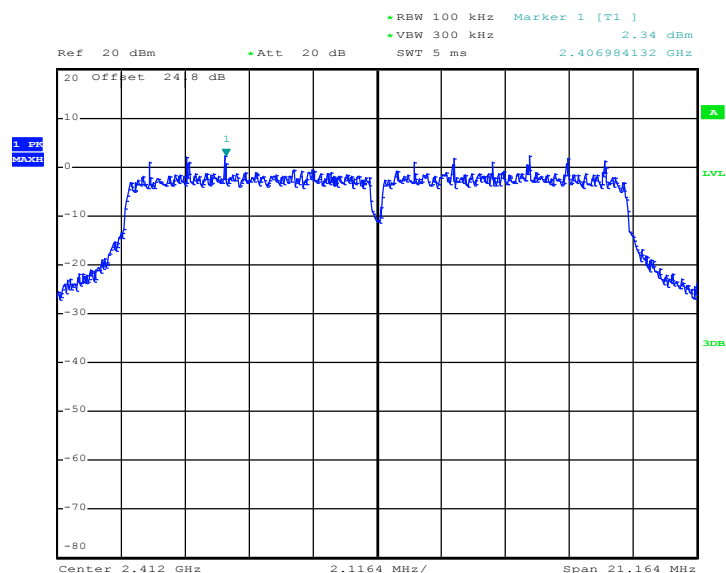


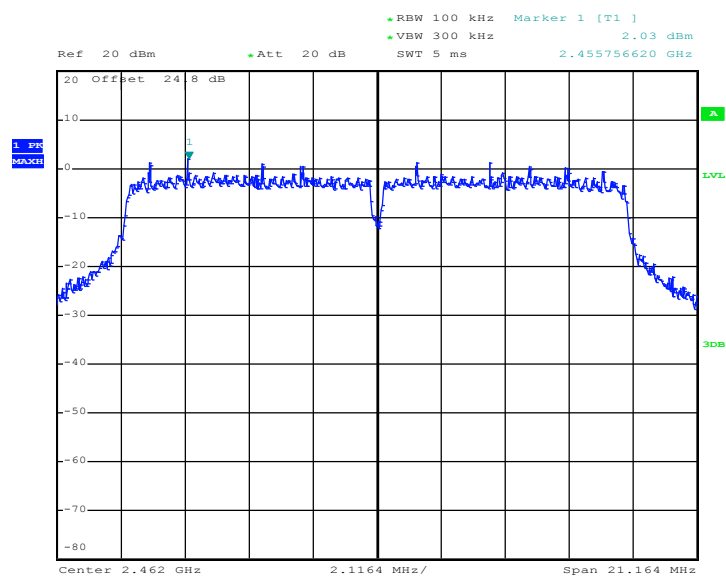
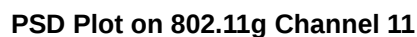


PSD Plot on 802.11b Channel 11



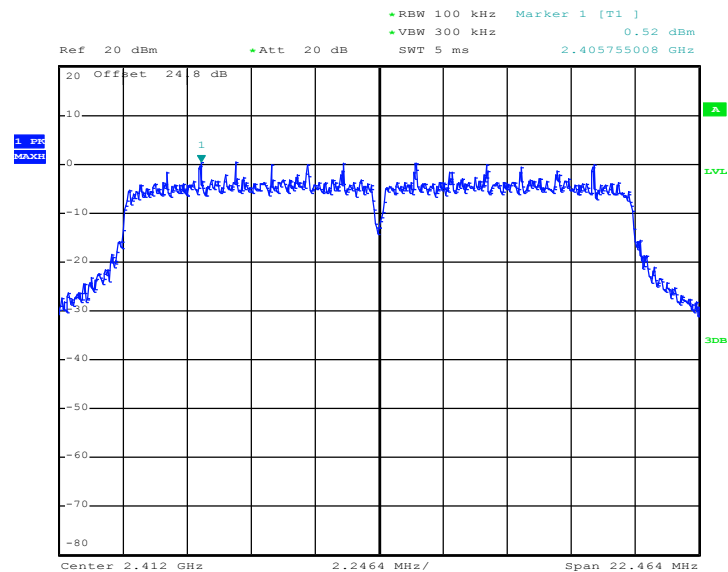
PSD Plot on 802.11g Channel 01



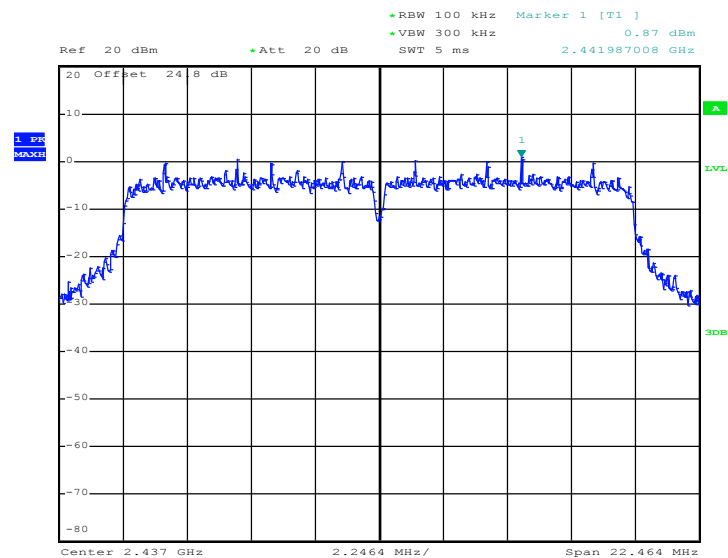




PSD Plot on 802.11n HT20 Channel 01

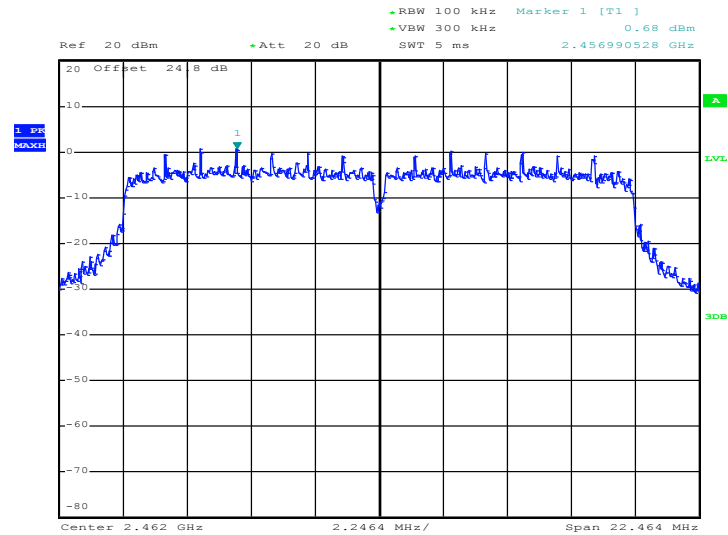


PSD Plot on 802.11n HT20 Channel 06



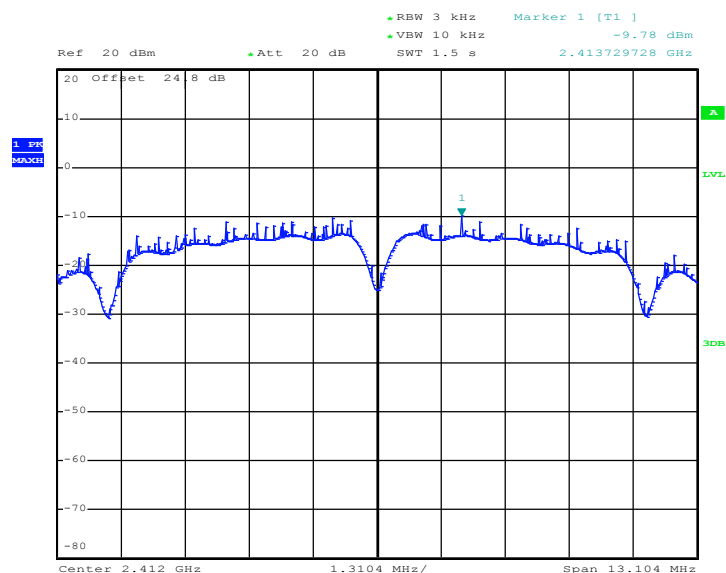


PSD Plot on 802.11n HT20 Channel 11

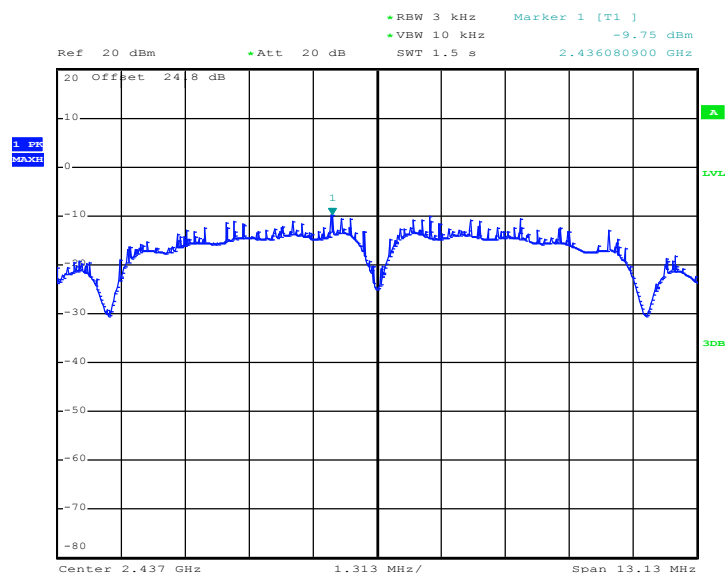


3.3.7 Test Result of Power Spectral Density Plots (3kHz)

PSD 3kHz Plot on 802.11b Channel 01

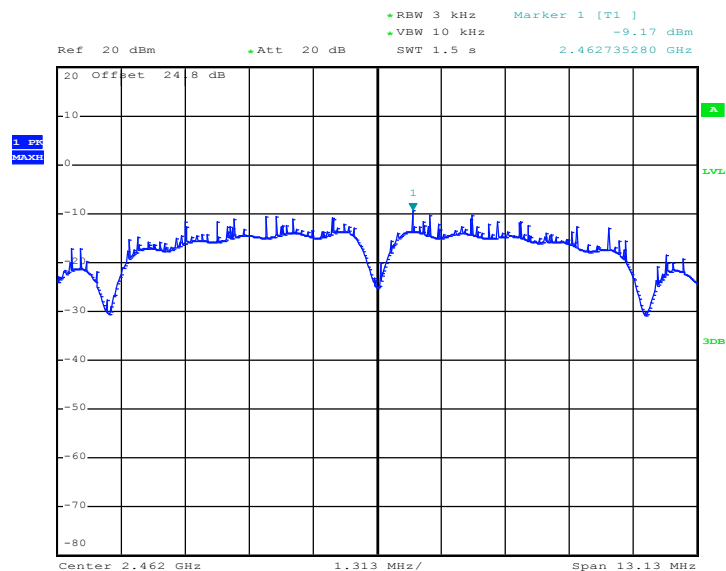


PSD 3kHz Plot on 802.11b Channel 06

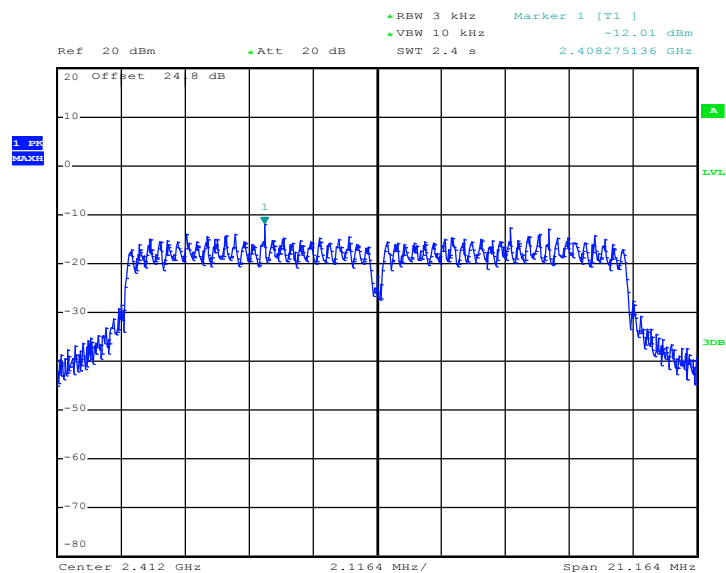


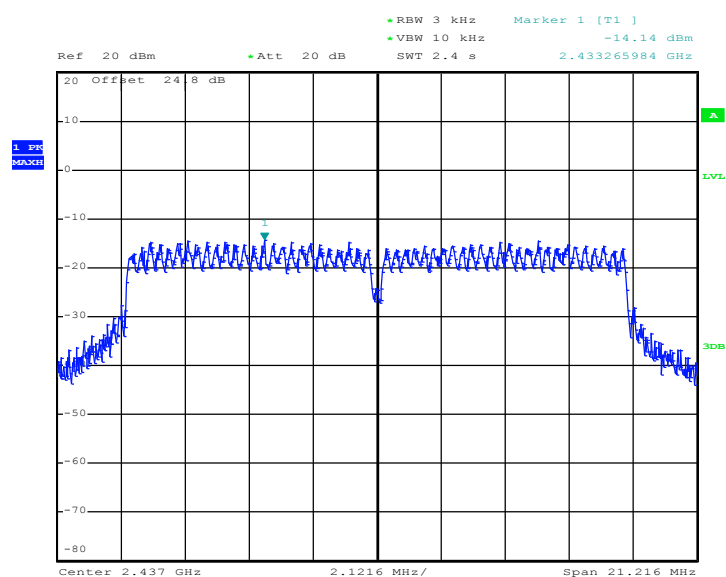


PSD 3kHz Plot on 802.11b Channel 11

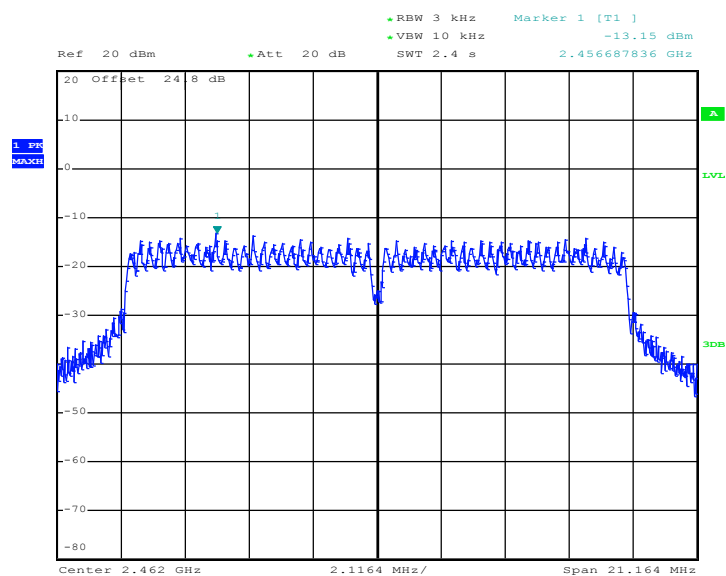


PSD 3kHz Plot on 802.11g Channel 01



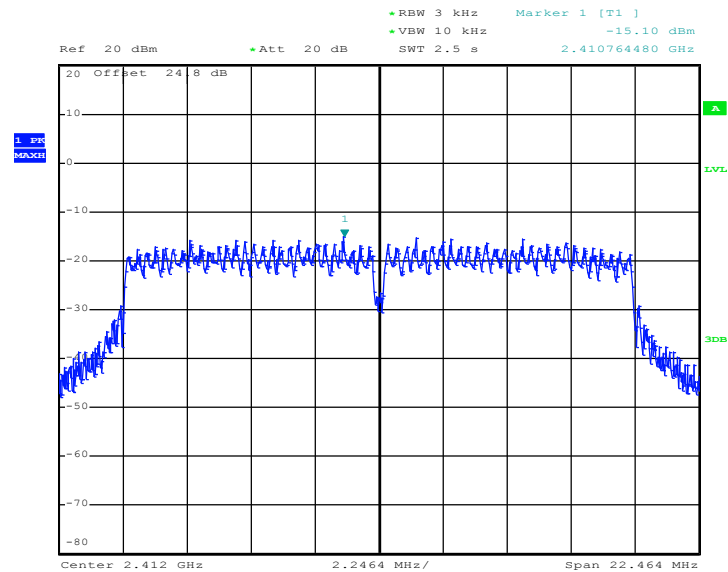


PSD 3kHz Plot on 802.11g Channel 11

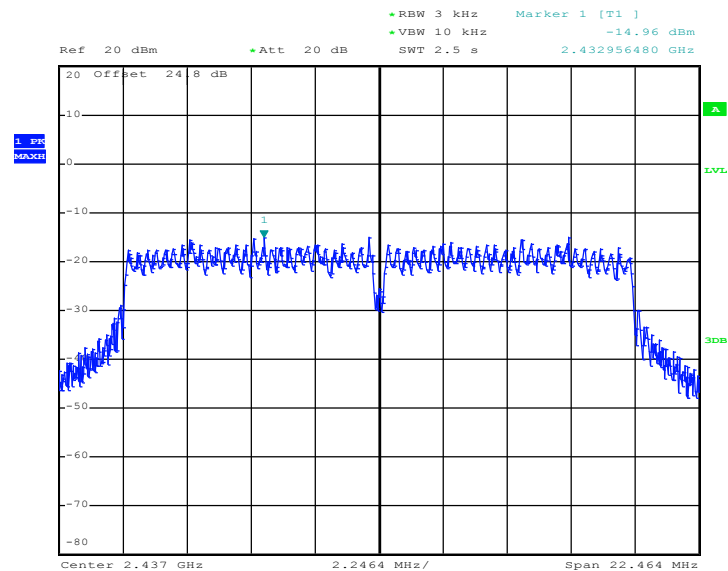


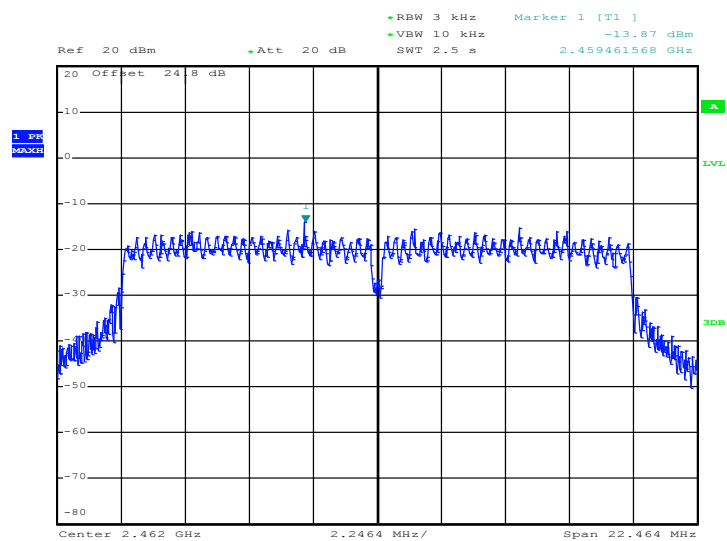


PSD 3kHz Plot on 802.11n HT20 Channel 01



PSD 3kHz Plot on 802.11n HT20 Channel 06





3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

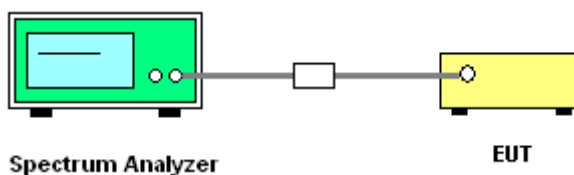
3.4.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.4.3 Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB Publication No.558074 DTS D01 Meas. Guidance v02.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 KHz, VBW=300 KHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz, when maximum peak conducted output power procedure is used.
5. Measure and record the results in the test report.

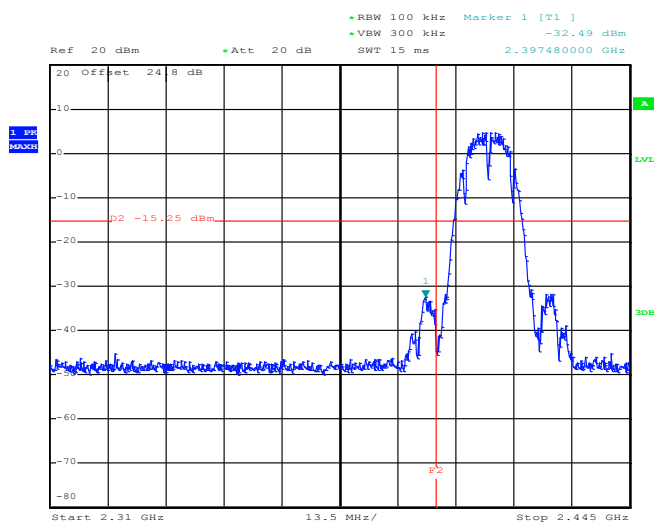
3.4.4 Test Setup



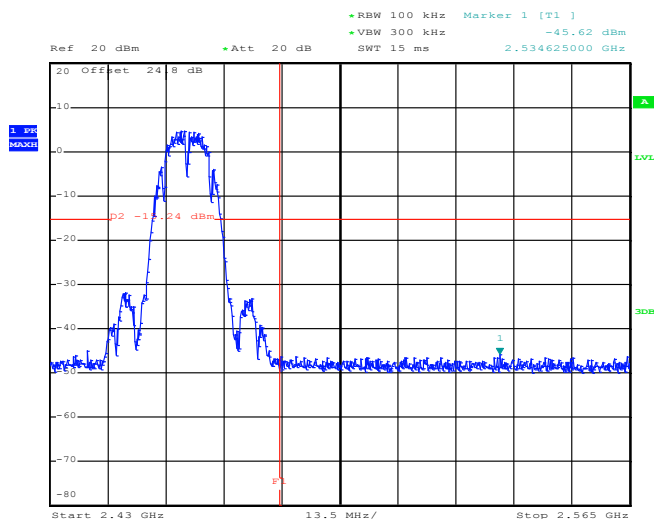
3.4.5 Test Plots of Conducted Band Edges

Test Mode :	802.11b	Temperature :	24~26°C
Test Band :	Low and High	Relative Humidity :	50~53%
Test Channel :	01 and 11	Test Engineer :	Reece Li

Low Band Edge Plot on 802.11b Channel 01



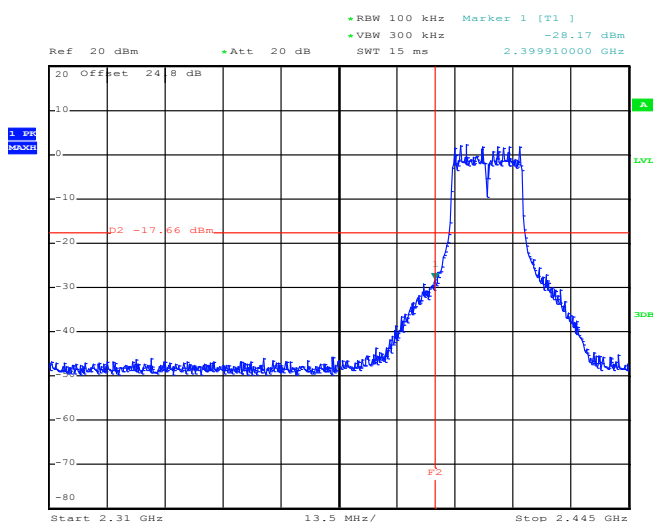
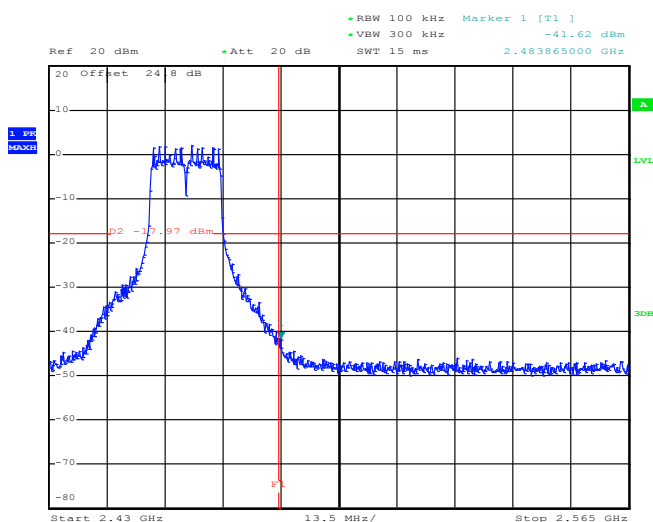
High Band Edge Plot on 802.11b Channel 11



Note: The total loss is 24.8dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.



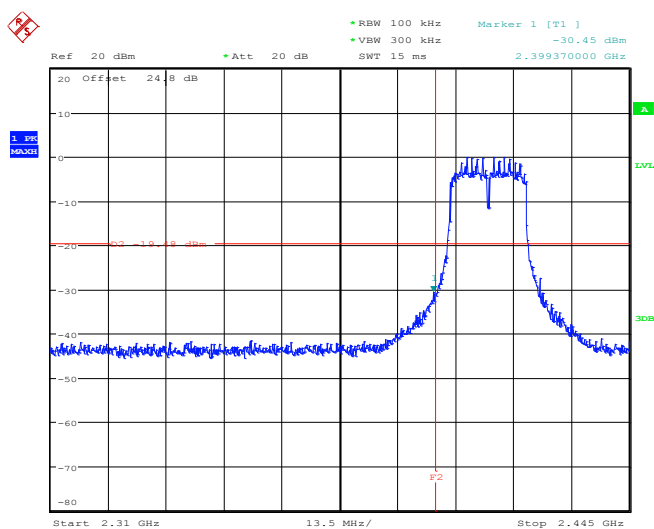
Test Mode :	802.11g	Temperature :	24~26°C
Test Band :	Low and High	Relative Humidity :	50~53%
Test Channel :	01 and 11	Test Engineer :	Reece Li

Low Band Edge Plot on 802.11g Channel 01**High Band Edge Plot on 802.11g Channel 11**

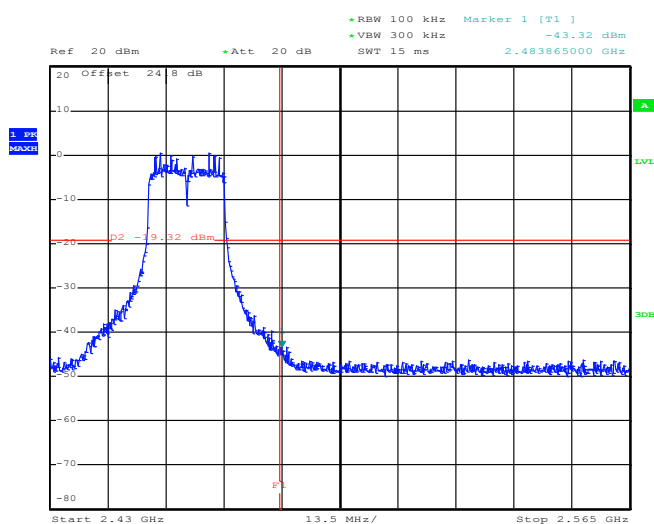


Test Mode :	802.11n HT20	Temperature :	24~26°C
Test Band :	Low and High	Relative Humidity :	50~53%
Test Channel :	01 and 11	Test Engineer :	Reece Li

Low Band Edge Plot on 802.11n HT20 Channel 01



High Band Edge Plot on 802.11n HT20 Channel 11

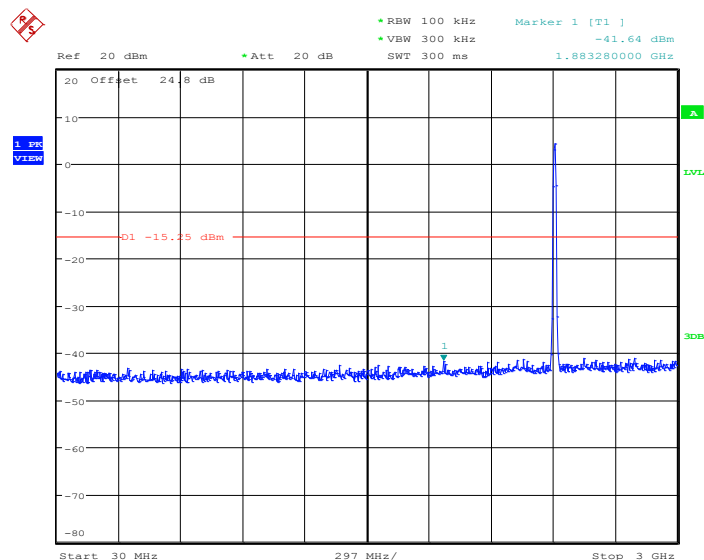


3.4.6 Test Plots of Spurious Emission

Test Mode :	802.11b	Temperature :	24~26°C
Test Band :	30MHz-3GHz and 2G-25GHz	Relative Humidity :	50~53%
Test Channel :	01, 06, 11	Test Engineer :	Reece Li

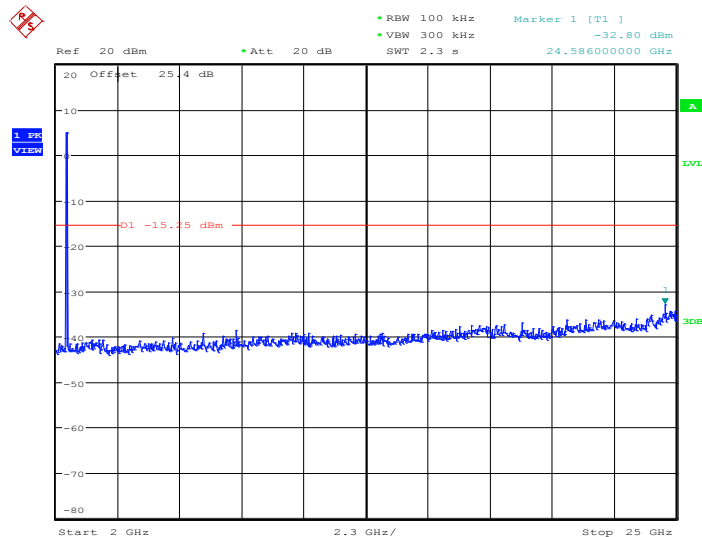
802.11b 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 01

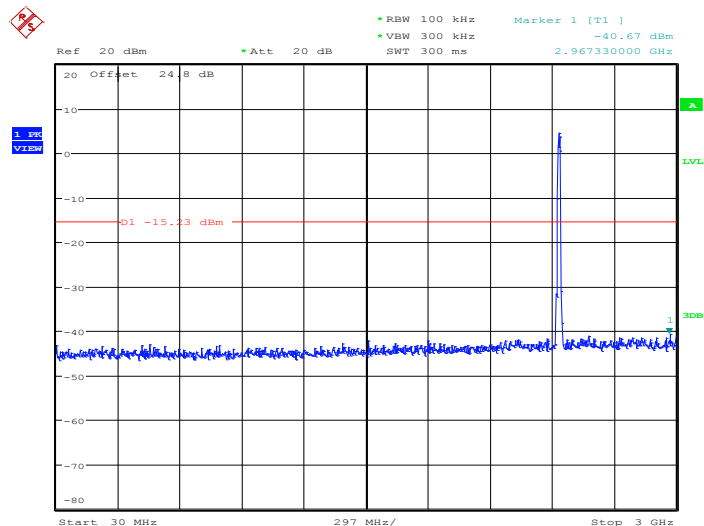


Note:

1. The total loss is 24.8dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

802.11b 2 GHz~25 GHz
Conducted Spurious Emission Plot on Channel 01

Note:

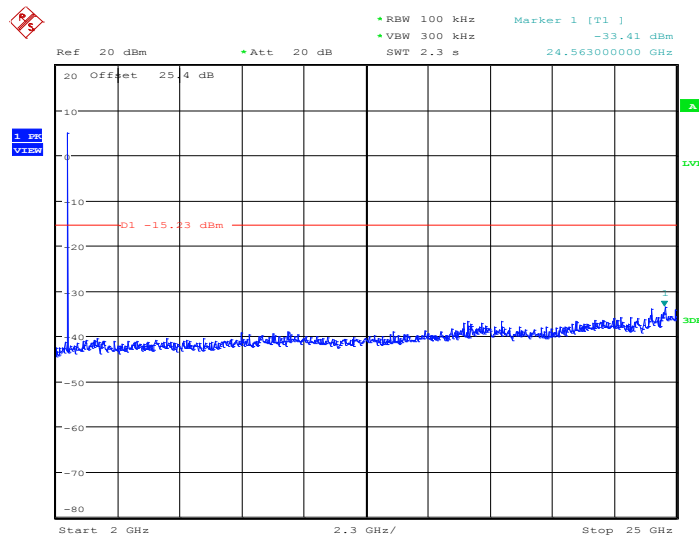
1. The total loss is 25.4dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

802.11b 30 MHz~3 GHz
Conducted Spurious Emission Plot on Channel 06

Note:

1. The total loss is 24.8dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

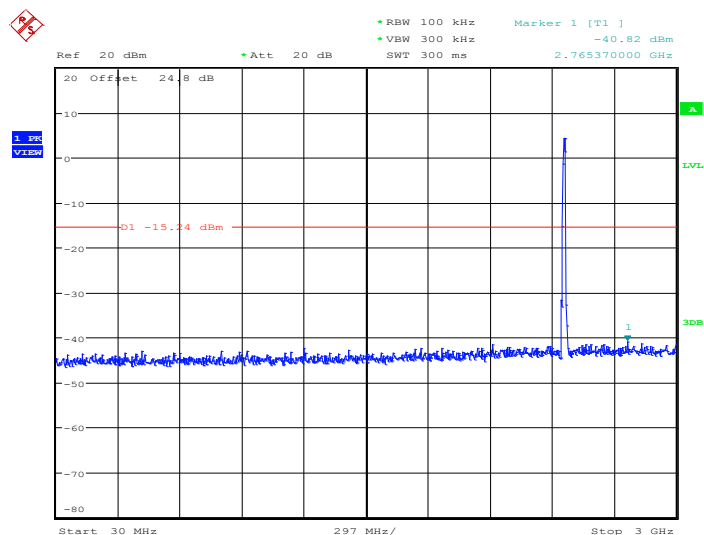
802.11b 2 GHz~25 GHz

Conducted Spurious Emission Plot on Channel 06

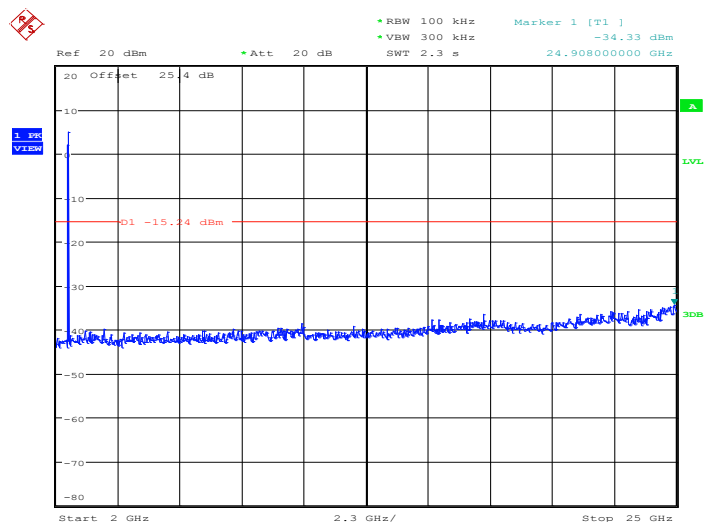


Note:

1. The total loss is 25.4dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

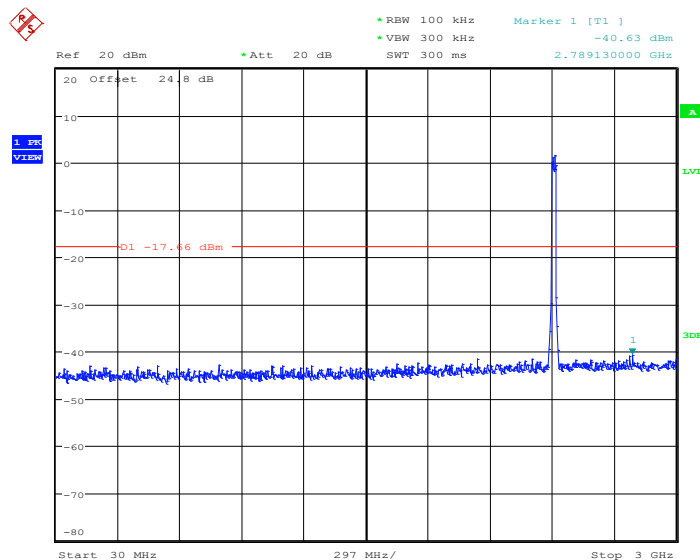
802.11b 30 MHz~3 GHz
Conducted Spurious Emission Plot on Channel 11

Note:

1. The total loss is 24.8dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

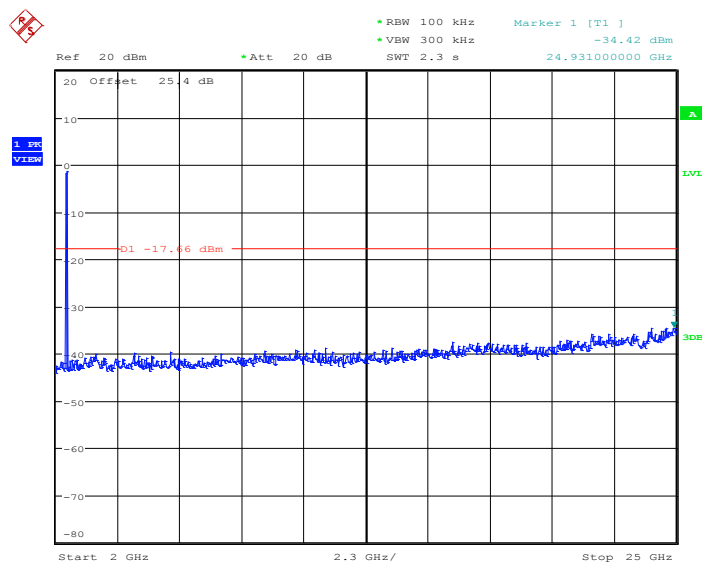
802.11b 2 GHz~25 GHz
Conducted Spurious Emission Plot on Channel 11

Note:

1. The total loss is 25.4dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

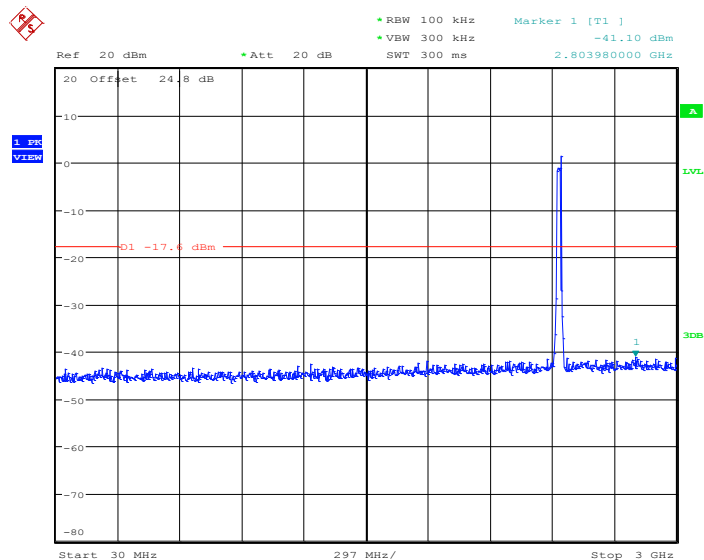
Test Mode :	802.11g	Temperature :	24~26°C
Test Band :	30MHz-3GHz and 2G-25GHz	Relative Humidity :	50~53%
Test Channel :	01, 06, 11	Test Engineer :	Reece Li

802.11g 30 MHz~3 GHz
Conducted Spurious Emission Plot on Channel 01

Note:

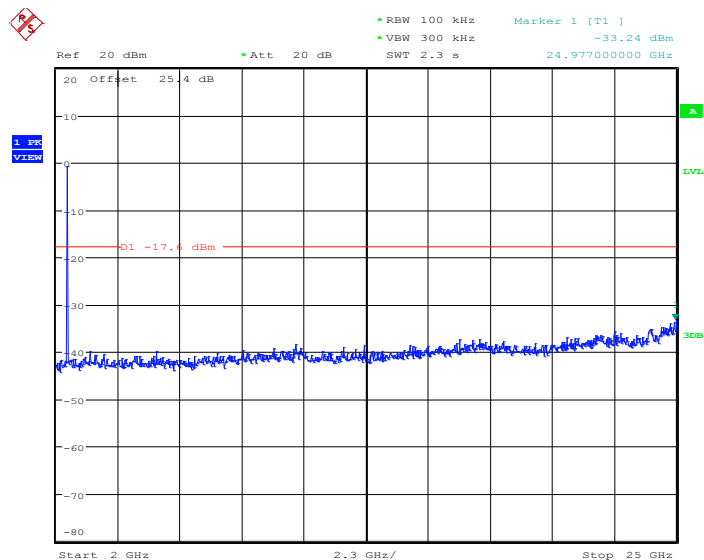
1. The total loss is 24.8dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

802.11g 2 GHz~25 GHz
Conducted Spurious Emission Plot on Channel 01

Note:

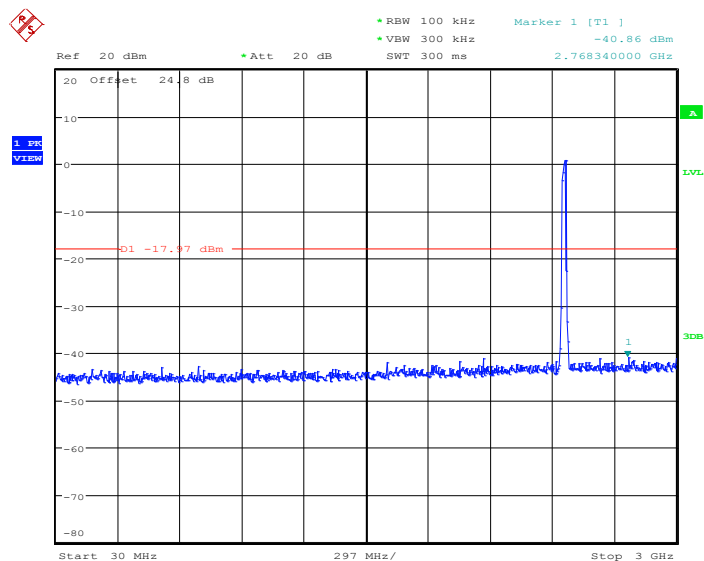
1. The total loss is 25.4dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

802.11g 30 MHz~3 GHz
Conducted Spurious Emission Plot on Channel 06

Note:

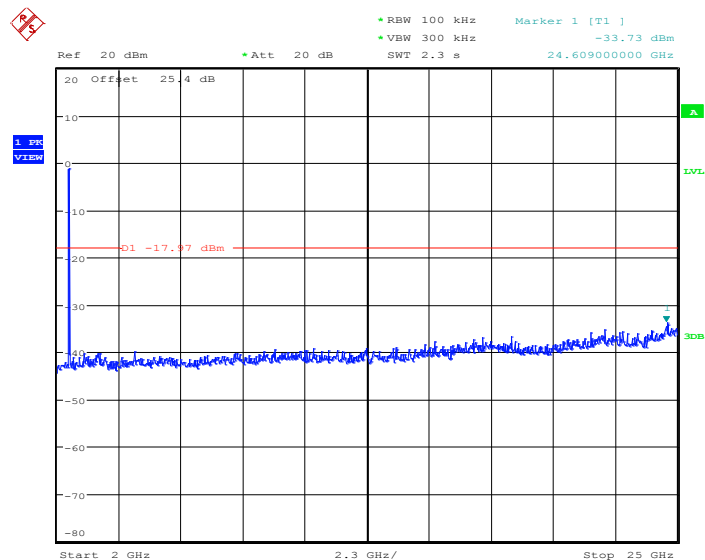
1. The total loss is 24.8dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

802.11g 2 GHz~25 GHz
Conducted Spurious Emission Plot on Channel 06

Note:

1. The total loss is 25.4dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

802.11g 30 MHz~3 GHz
Conducted Spurious Emission Plot on Channel 11

Note:

1. The total loss is 24.8dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

802.11g 2 GHz~25 GHz
Conducted Spurious Emission Plot on Channel 11

Note:

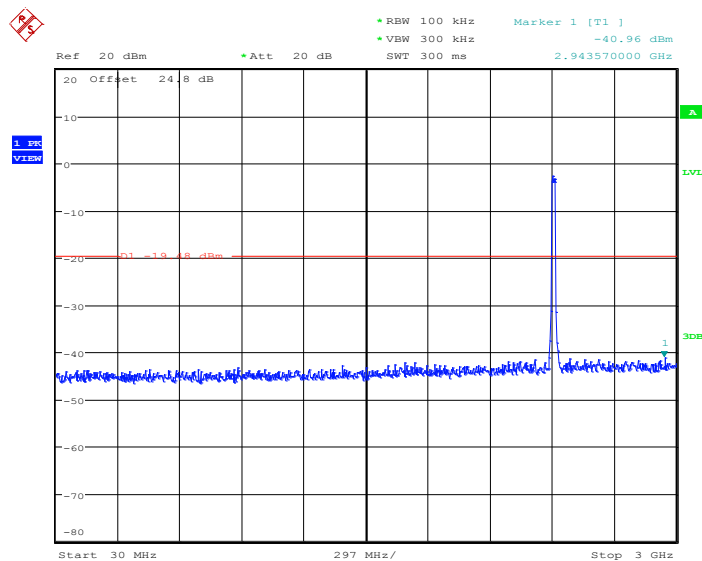
1. The total loss is 25.4dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



Test Mode :	802.11n HT20	Temperature :	24~26°C
Test Band :	30MHz-3GHz and 2G-25GHz	Relative Humidity :	50~53%
Test Channel :	01, 06, 11	Test Engineer :	Reece Li

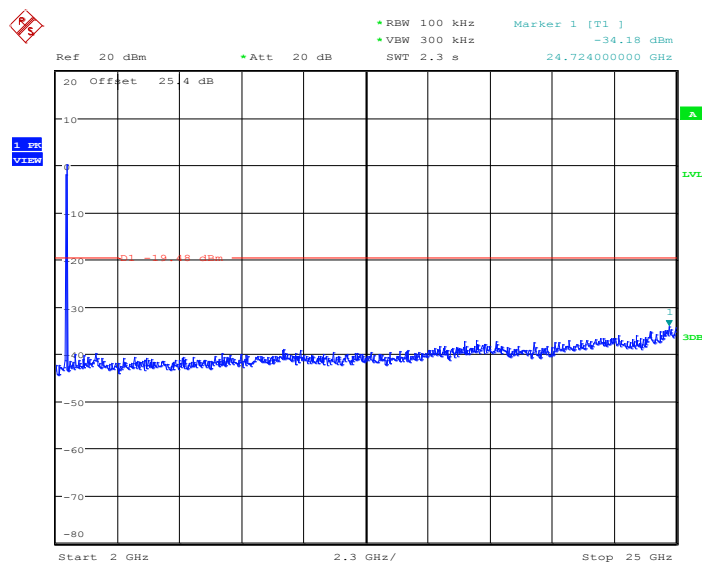
802.11n HT20 30 MHz~3 GHz

Conducted Spurious Emission Plot on Channel 01

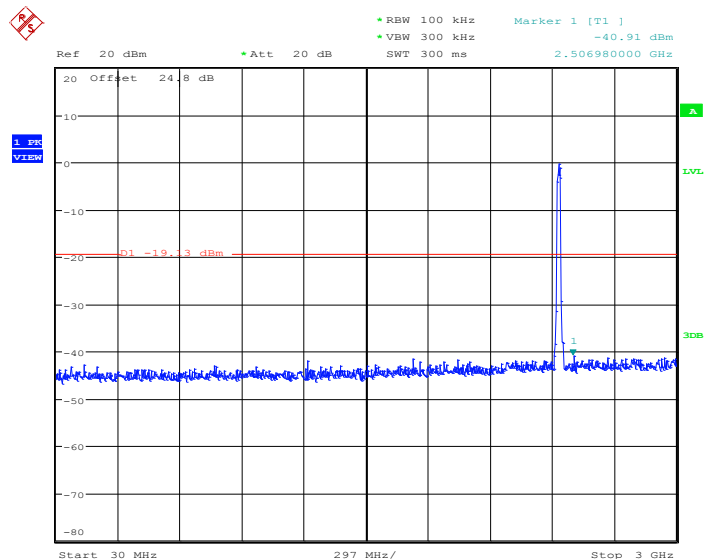


Note:

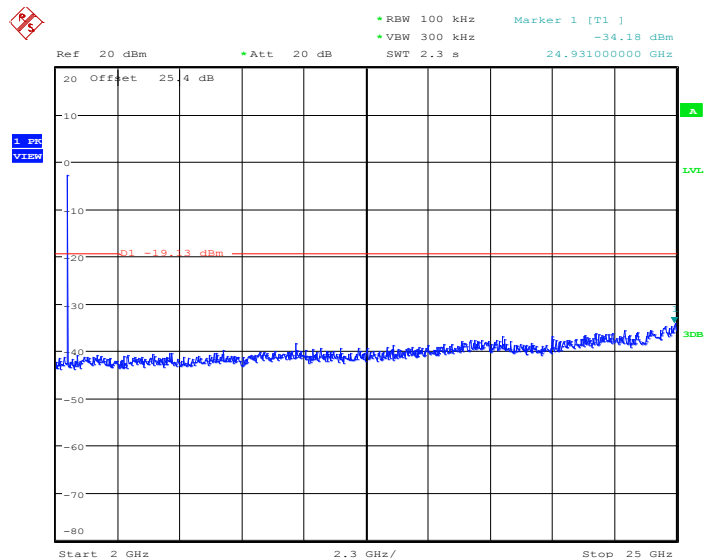
1. The total loss is 24.8dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

802.11n HT20 2 GHz~25 GHz
Conducted Spurious Emission Plot on Channel 01

Note:

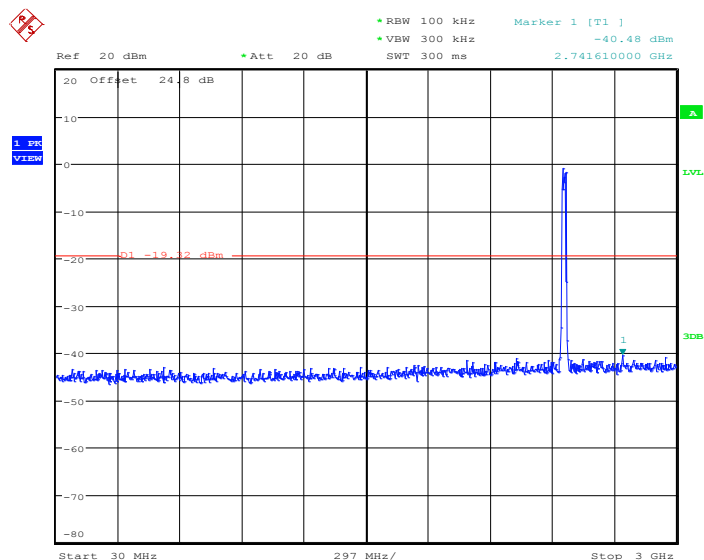
1. The total loss is 25.4dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

802.11n HT20 30 MHz~3 GHz
Conducted Spurious Emission Plot on Channel 06

Note:

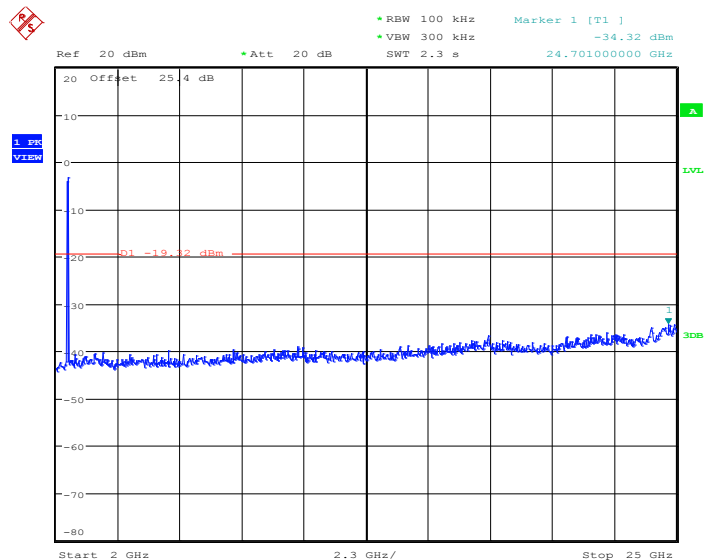
1. The total loss is 24.8dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

802.11n HT20 2 GHz~25 GHz
Conducted Spurious Emission Plot on Channel 06

Note:

1. The total loss is 25.4dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

802.11n HT20 30 MHz~3 GHz
Conducted Spurious Emission Plot on Channel 11

Note:

1. The total loss is 24.8dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

802.11n HT20 2 GHz~25 GHz
Conducted Spurious Emission Plot on Channel 11

Note:

1. The total loss is 25.4dB of the RF cable and attenuator, and has been compensated to the spectrum analyzer offset.
2. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.5 Radiated Emission Measurement

3.5.1 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

3.5.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.5.3 Test Procedures

1. The testing follows the guidelines in ANSI C63. 10-2009
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 KHz for $f < 1$ GHz; $VBW \geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

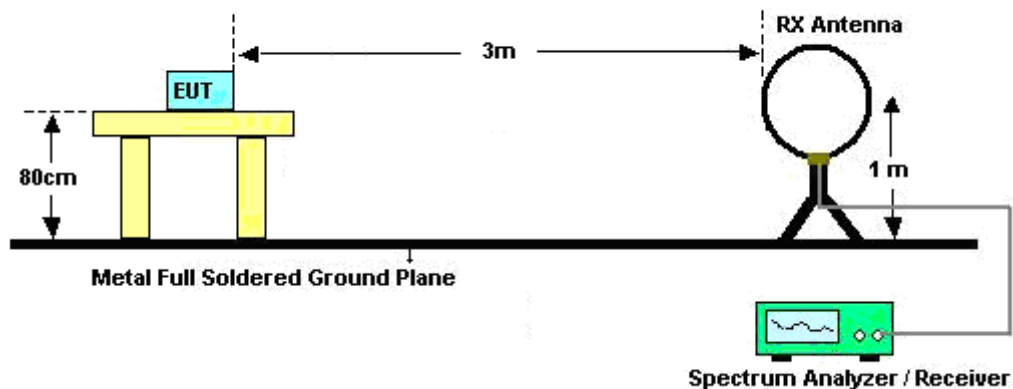
 - $VBW = 10$ Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Band	Duty Cycle (%)	T(us)	1/T(KHz)	VBW Setting
802.11b	100.00	-	-	10Hz
802.11g	98.10	-	-	10Hz
2.4G 802.11n HT20	97.46	1920.00	0.521	1KHz

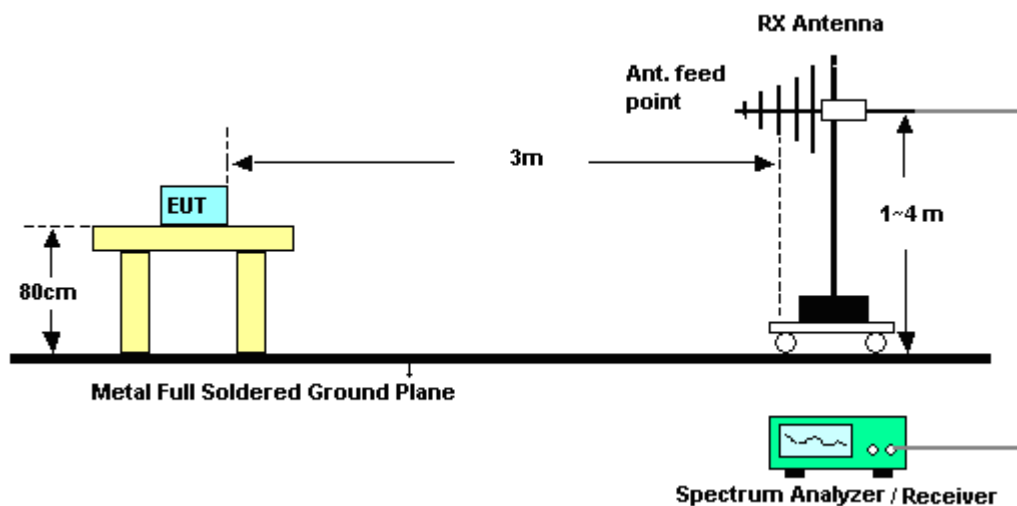
Note: For average measurement with duty cycle < 98%, use reduced VBW measurement method 4.2.3.2.3 in ANSI C63.10.

3.5.4 Test Setup

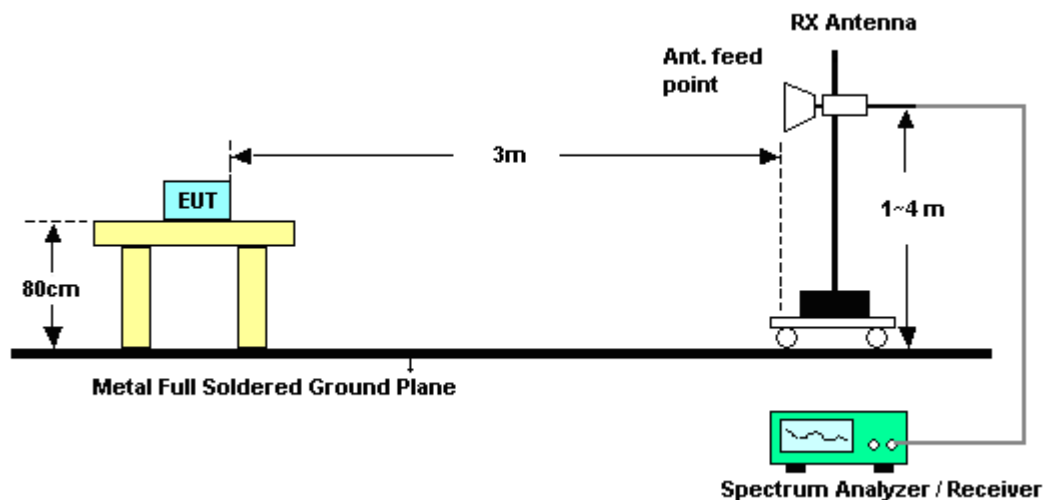
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



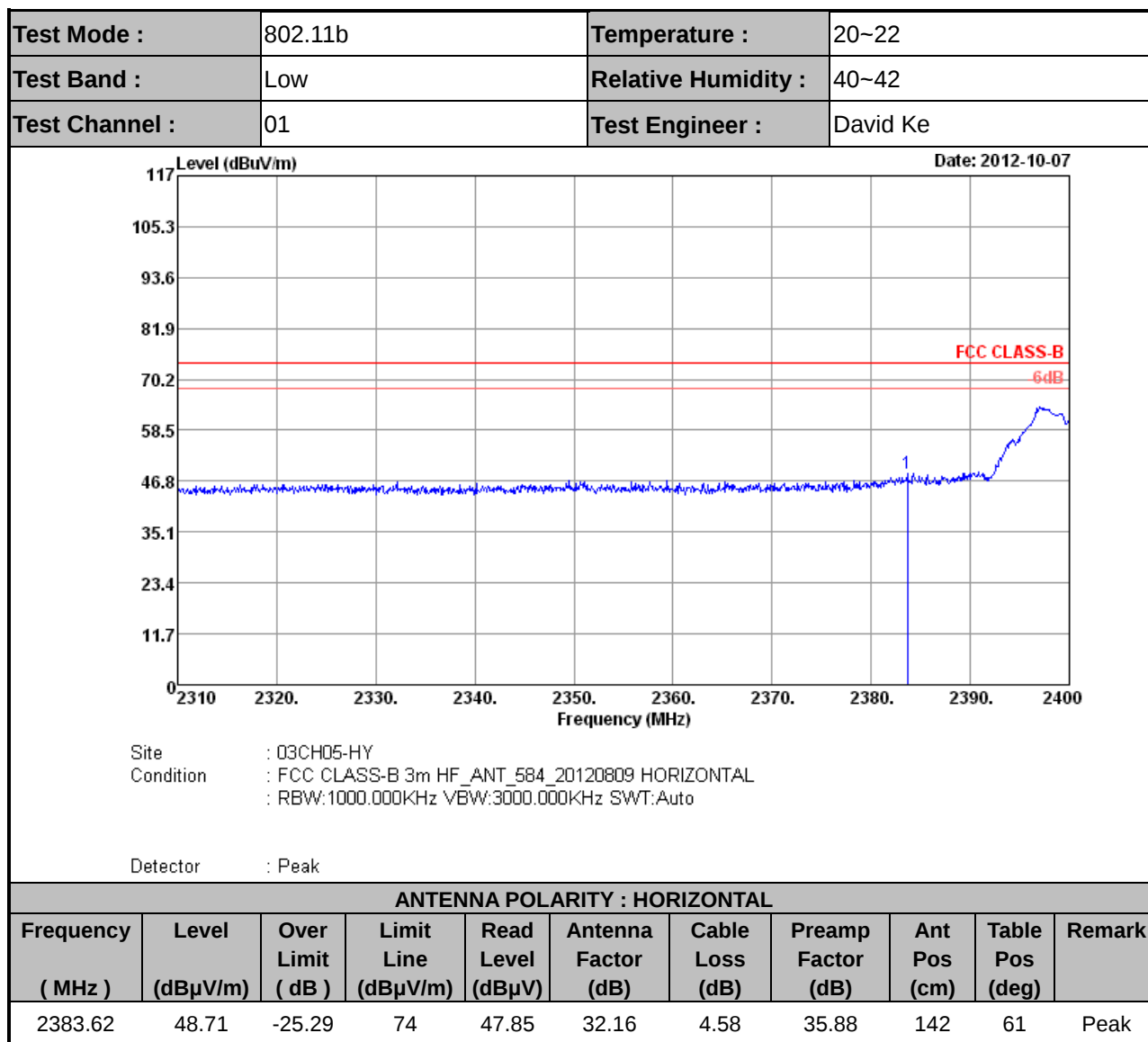
For radiated emissions above 1GHz



3.5.5 Test Results of Radiated Emissions (9 KHz ~ 30 MHz)

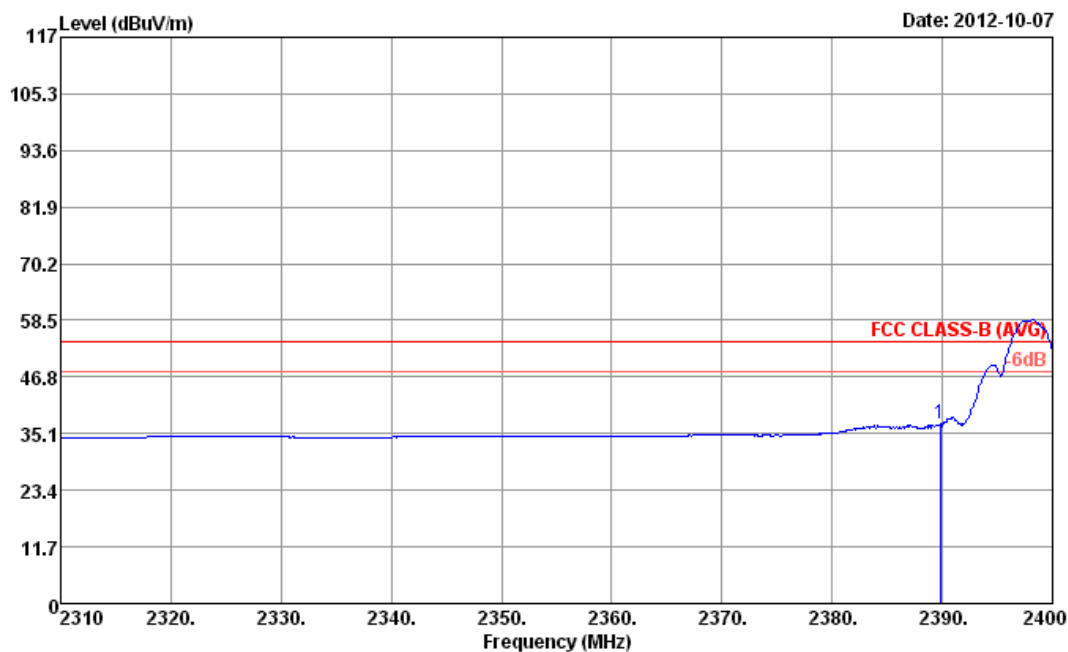
The low frequency, which started from 9 KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

3.5.6 Test Result of Radiated Band Edges



Note: Worst case measurement on 2383.62 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2310-2390MHz. And, 2390-2400 MHz is non-restricted band which limit line is 20dB below the fundamental frequency emission level which is tested by conducted spurious emission. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11b	Temperature :	20~22
Test Band :	Low	Relative Humidity :	40~42
Test Channel :	01	Test Engineer :	David Ke



Site : 03CH05-HY
Condition : FCC CLASS-B (AVG) 3m HF_ANT_584_20120809 HORIZONTAL
: RBW:1000.000KHz VBW:0.010KHz SWT:Auto

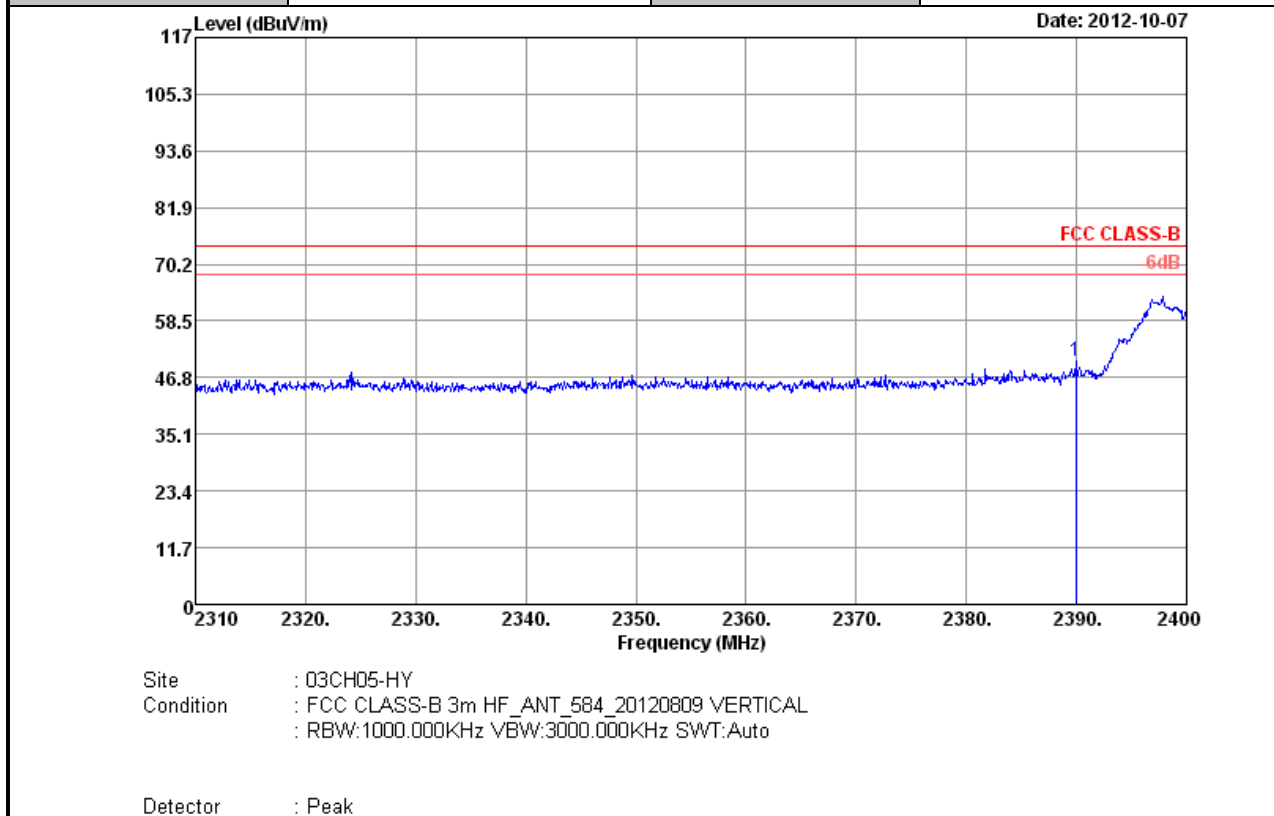
Detector : Peak

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2389.83	37.19	-16.81	54	36.29	32.18	4.58	35.86	142	61	Average

Note: Worst case measurement on 2389.83 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2310-2390MHz. And, 2390-2400 MHz is non-restricted band which limit line is 20dB below the fundamental frequency emission level which is tested by conducted spurious emission. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11b	Temperature :	20~22
Test Band :	Low	Relative Humidity :	40~42
Test Channel :	01	Test Engineer :	David Ke

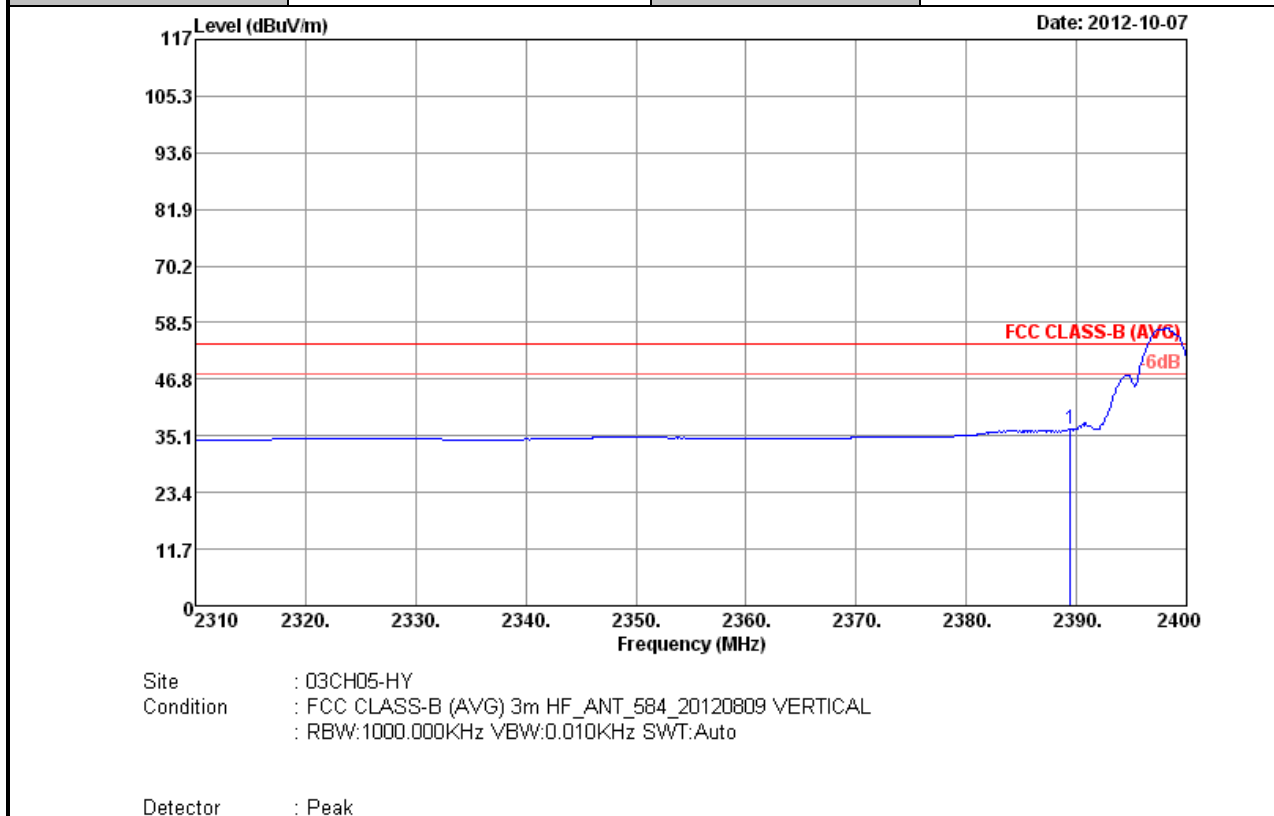

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2389.92	50.07	-23.93	74	49.17	32.18	4.58	35.86	100	12	Peak

Note: Worst case measurement on 2389.92 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2310-2390MHz. And, 2390-2400 MHz is non-restricted band which limit line is 20dB below the fundamental frequency emission level which is tested by conducted spurious emission. Both the test results are compliance with the FCC limit line.



Test Mode :	802.11b	Temperature :	20~22
Test Band :	Low	Relative Humidity :	40~42
Test Channel :	01	Test Engineer :	David Ke

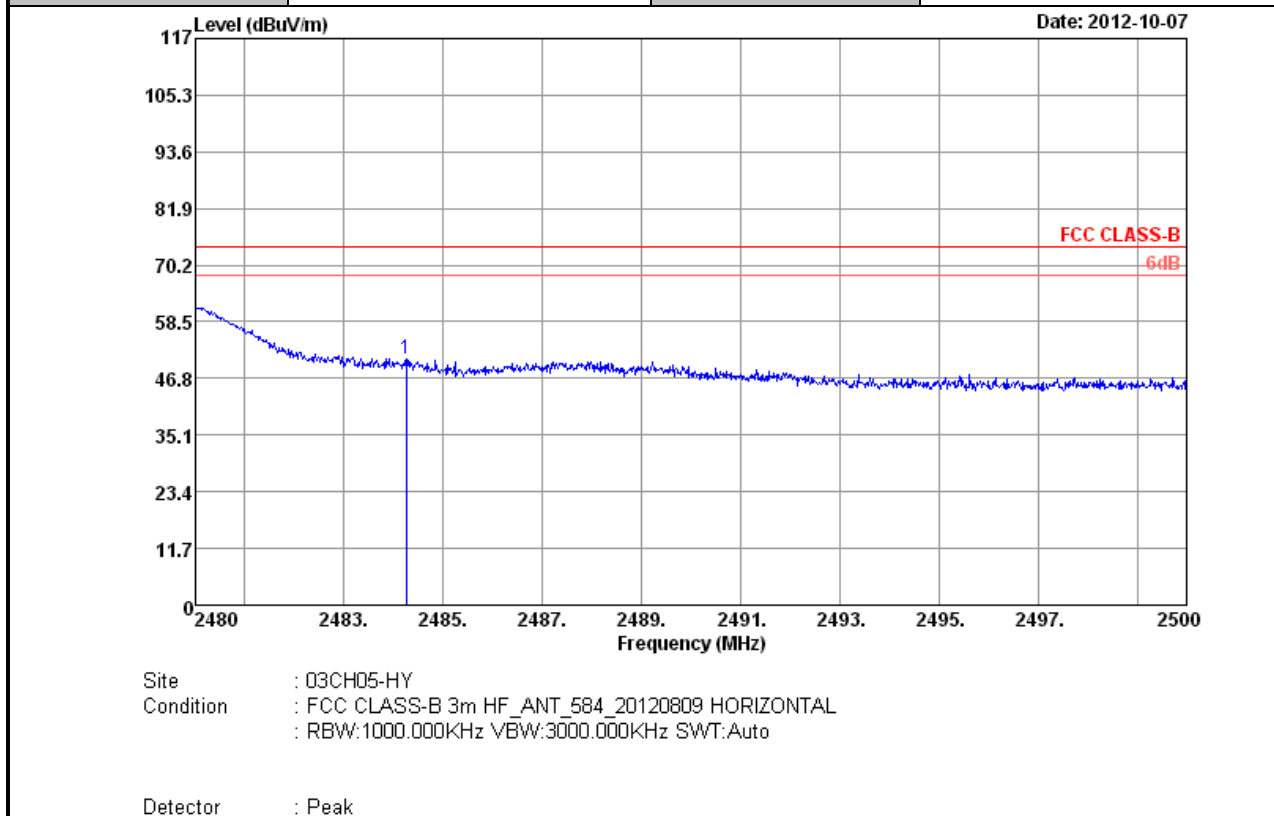


ANTENNA POLARITY : VERTICAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2389.47	36.64	-17.36	54	35.76	32.18	4.58	35.88	100	12	Average

Note: Worst case measurement on 2389.47 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2310-2390MHz. And, 2390-2400 MHz is non-restricted band which limit line is 20dB below the fundamental frequency emission level which is tested by conducted spurious emission. Both the test results are compliance with the FCC limit line.



Test Mode :	802.11b	Temperature :	20~22
Test Band :	High	Relative Humidity :	40~42
Test Channel :	11	Test Engineer :	David Ke

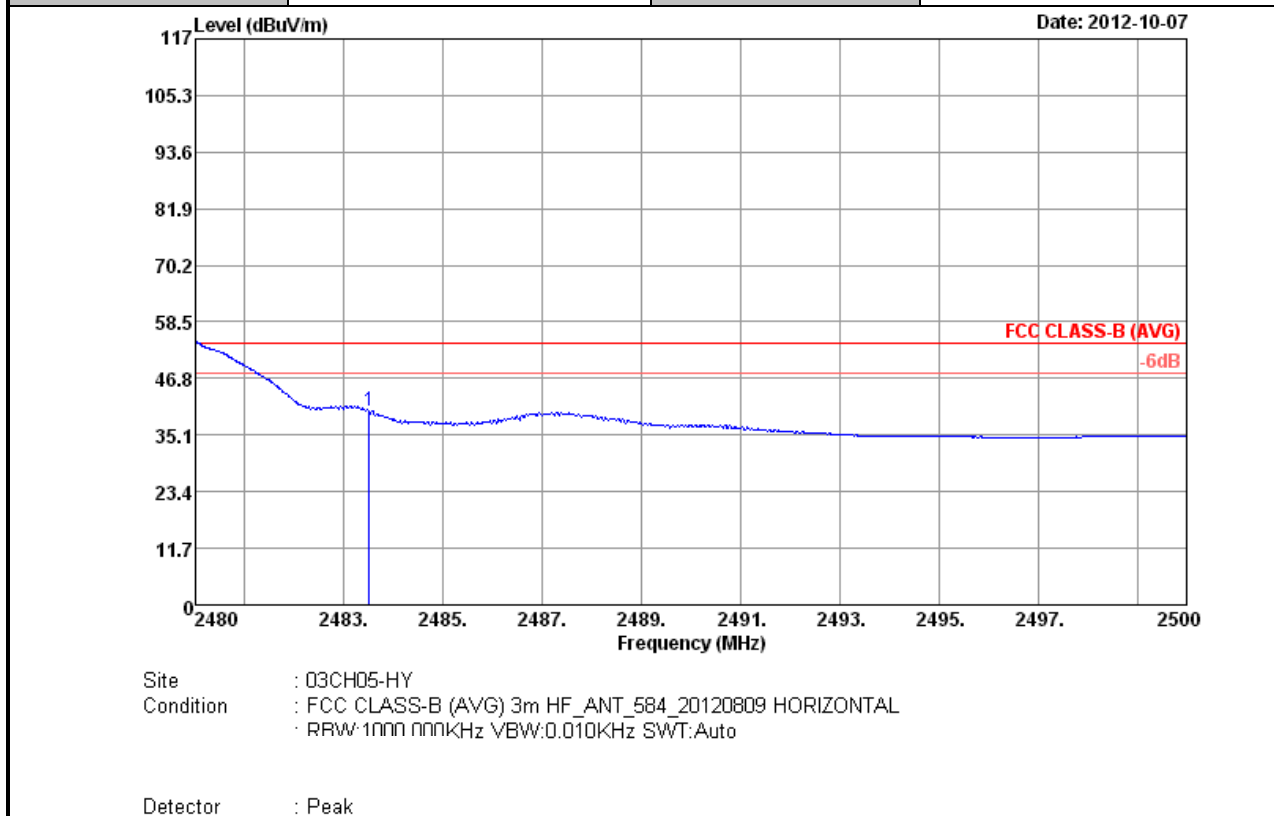


ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBUV/m)	Over Limit (dB)	Limit Line (dBUV/m)	Read Level (dBUV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2484.26	50.97	-23.03	74	49.86	32.28	4.64	35.81	115	68	Peak

Note: Worst case measurement on 2484.26 MHz is compliance with 74/54 dBUV/m (peak/average) limit and band edge measurement in the restricted band 2483.5-2500MHz. And, 2480-2483.5MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.



Test Mode :	802.11b	Temperature :	20~22
Test Band :	High	Relative Humidity :	40~42
Test Channel :	11	Test Engineer :	David Ke



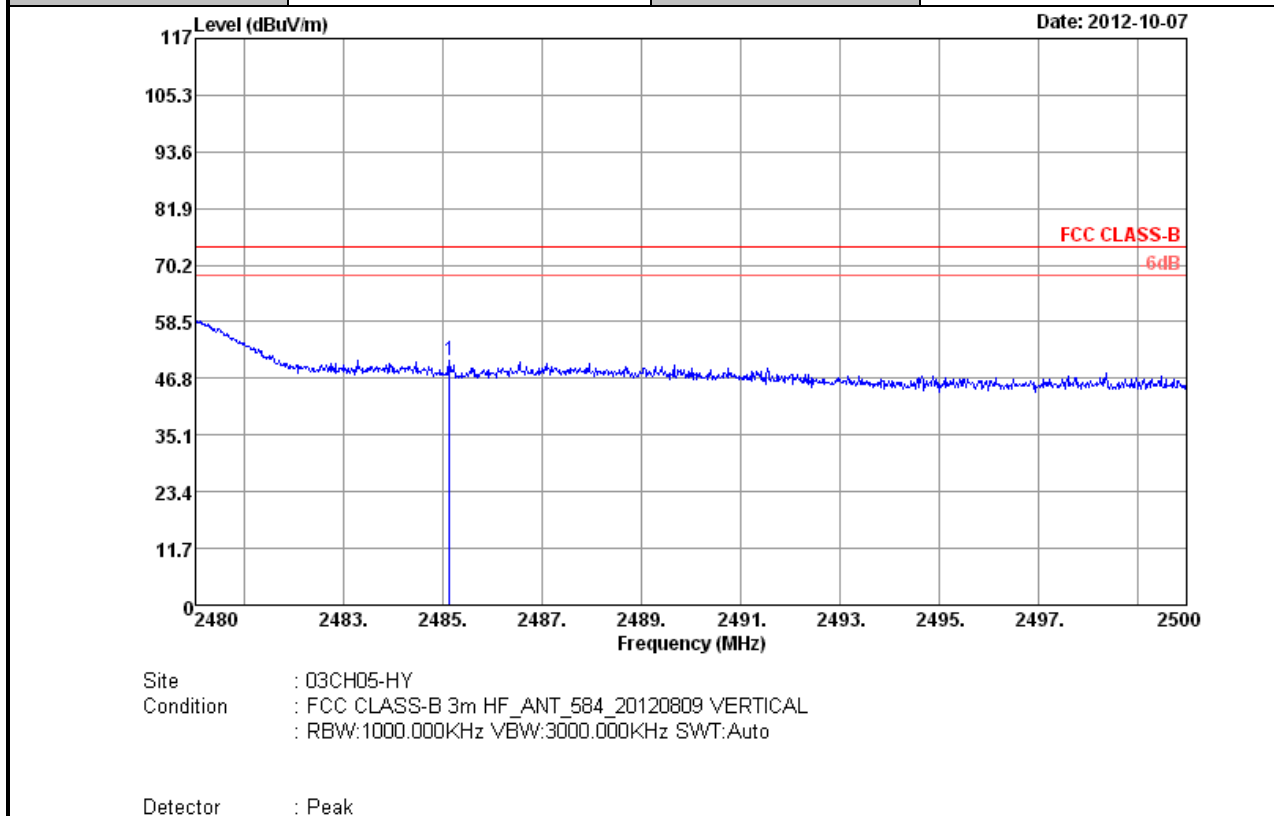
ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.5	40.11	-13.89	54	39	32.28	4.64	35.81	115	68	Average

Note: Worst case measurement on 2483.5 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2483.5-2500MHz. And, 2480-2483.5MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.



Test Mode :	802.11b	Temperature :	20~22
Test Band :	High	Relative Humidity :	40~42
Test Channel :	11	Test Engineer :	David Ke



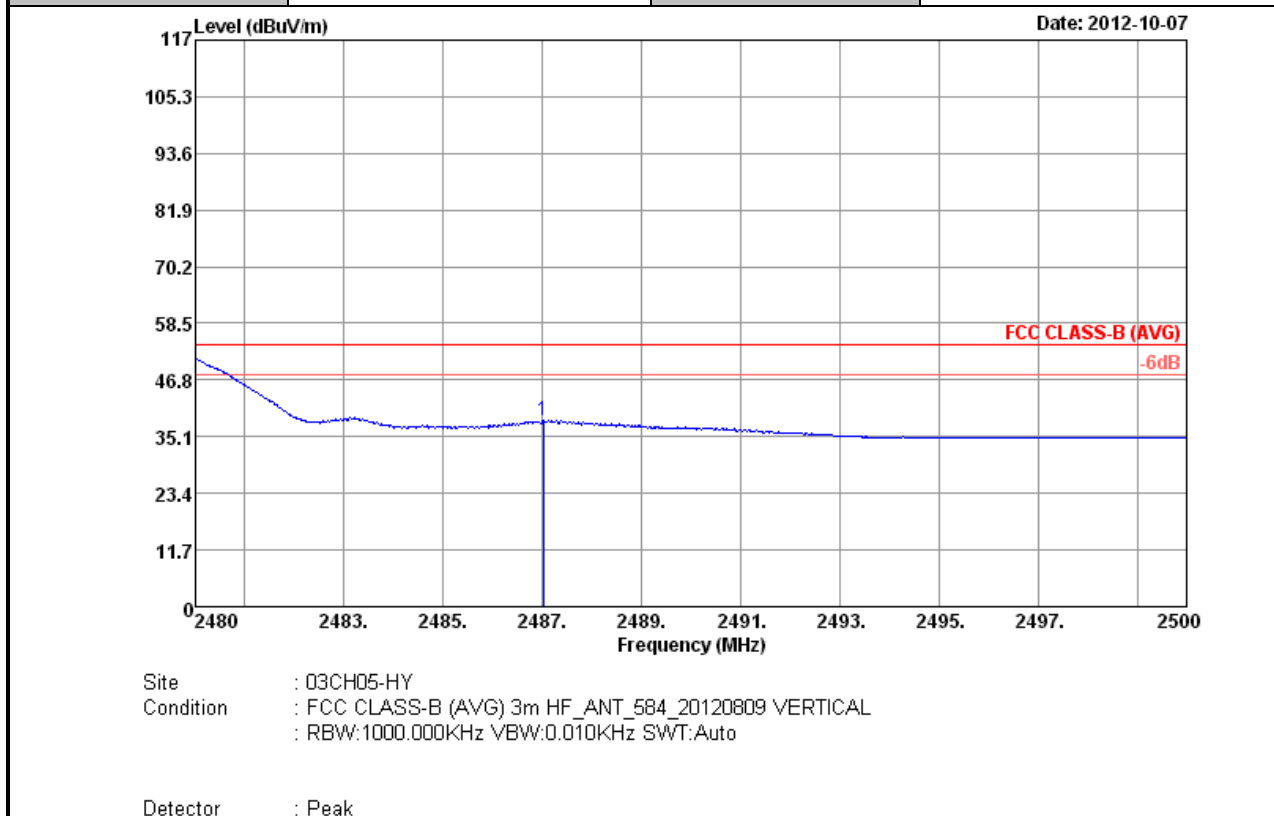
ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2485.12	50.48	-23.52	74	49.37	32.28	4.64	35.81	121	37	Peak

Note: Worst case measurement on 2485.12 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2483.5-2500MHz. And, 2480-2483.5MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.



Test Mode :	802.11b	Temperature :	20~22
Test Band :	High	Relative Humidity :	40~42
Test Channel :	11	Test Engineer :	David Ke

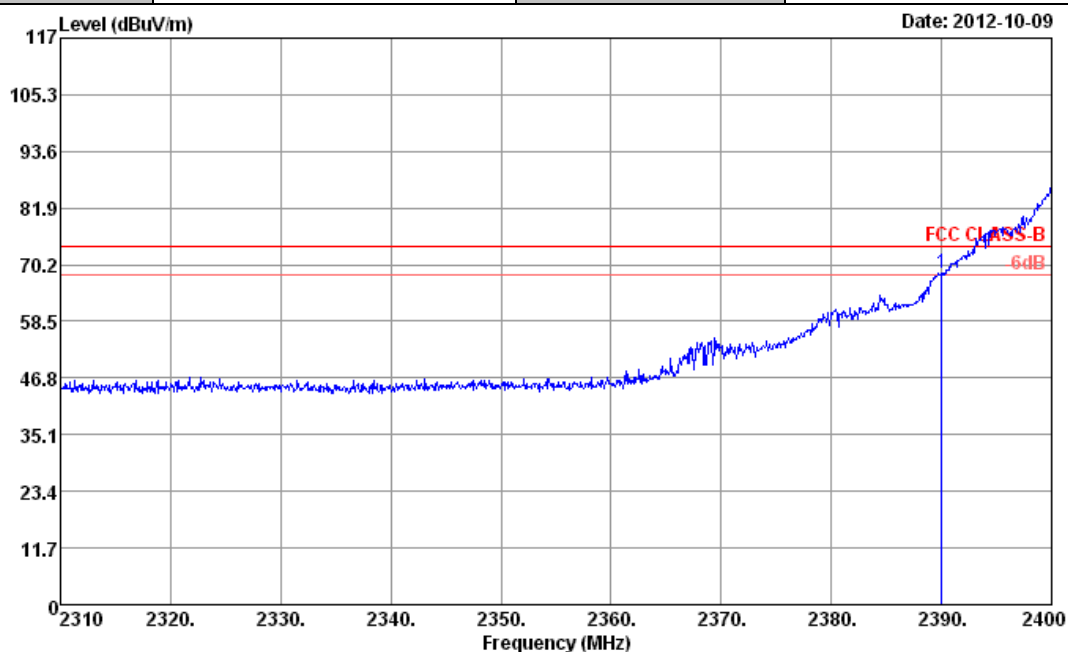


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2487.02	38.54	-15.46	54	37.43	32.28	4.64	35.81	121	37	Average

Note: Worst case measurement on 2487.02 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2483.5-2500MHz. And, 2480-2483.5MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11g	Temperature :	20~22
Test Band :	Low	Relative Humidity :	40~42
Test Channel :	01	Test Engineer :	David Ke



Site : 03CH05-HY
Condition : FCC CLASS-B 3m HF_ANT_584_20120809 HORIZONTAL
: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

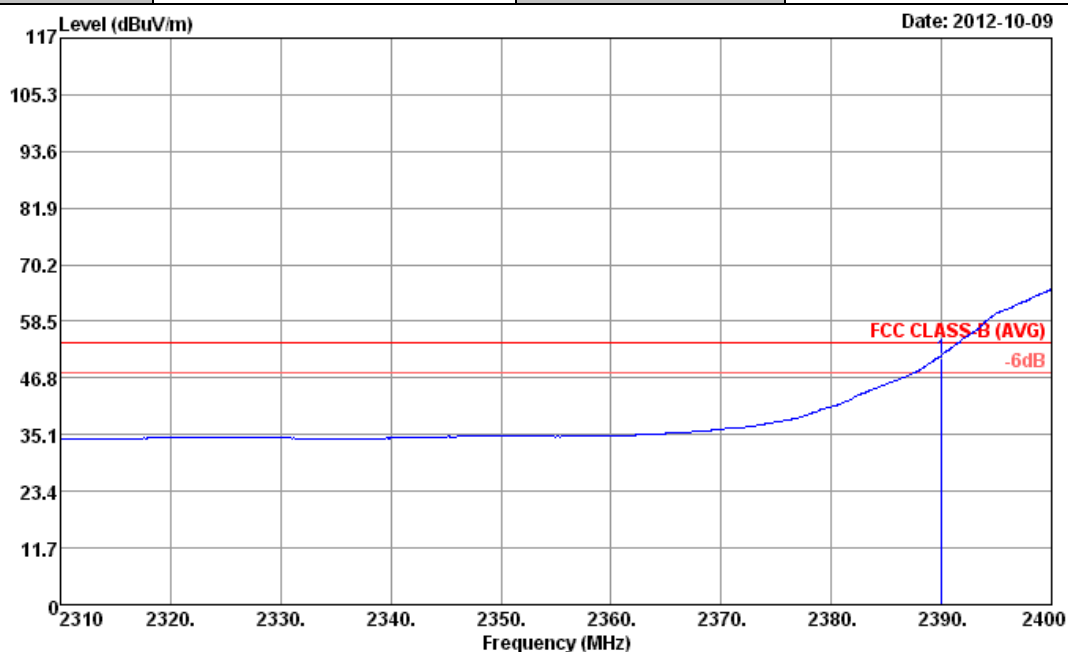
Detector : Peak

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390	68.6	-5.4	74	67.7	32.18	4.58	35.86	182	68	Peak

Note: Worst case measurement on 2390 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2310-2390MHz. And, 2390-2400 MHz is non-restricted band which limit line is 20dB below the fundamental frequency emission level which is tested by conducted spurious emission. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11g	Temperature :	20~22
Test Band :	Low	Relative Humidity :	40~42
Test Channel :	01	Test Engineer :	David Ke



Site : 03CH05-HY
Condition : FCC CLASS-B (AVG) 3m HF_ANT_584_20120809 HORIZONTAL
: RBW:1000.000KHz VBW:0.010KHz SWT:Auto

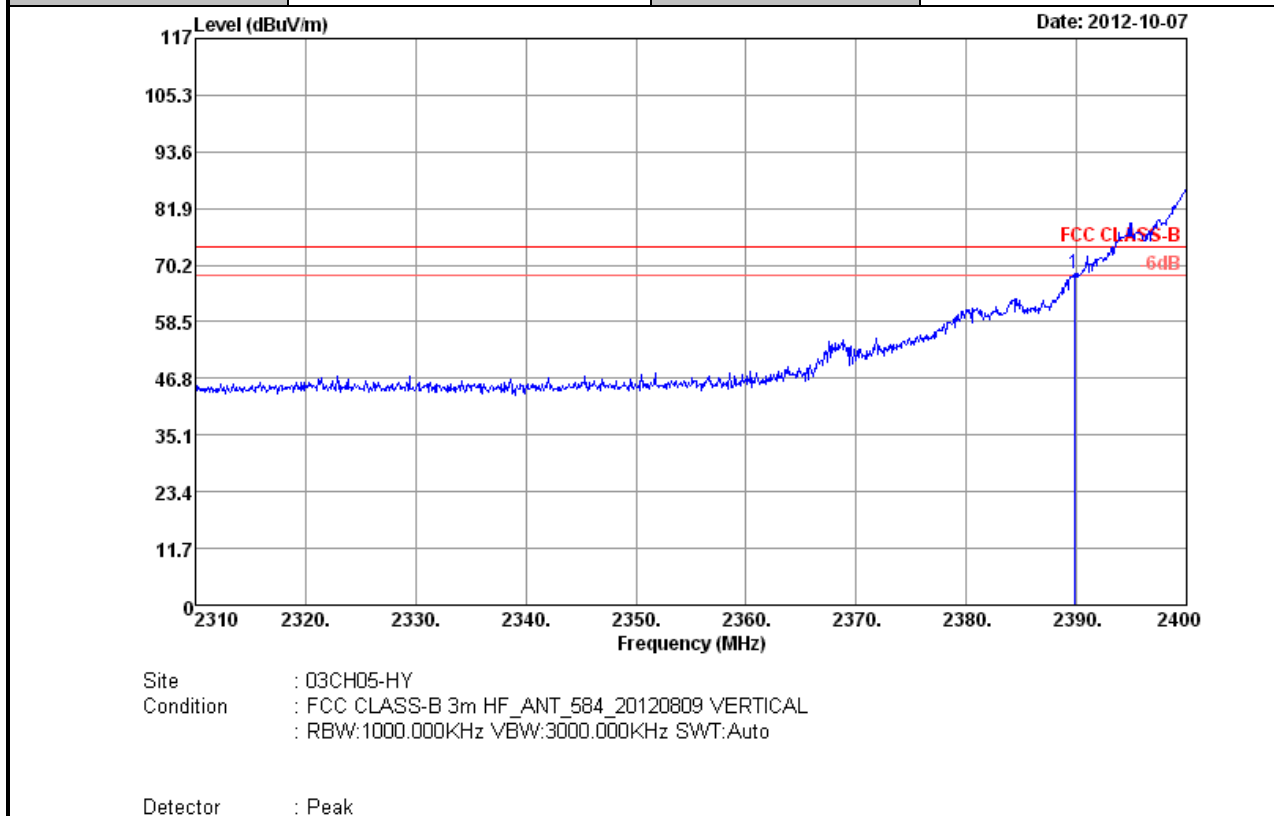
Detector : Peak

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390	50.9	-3.1	54	50	32.18	4.58	35.86	182	68	Average

Note: Worst case measurement on 2390 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2310-2390MHz. And, 2390-2400 MHz is non-restricted band which limit line is 20dB below the fundamental frequency emission level which is tested by conducted spurious emission. Both the test results are compliance with the FCC limit line.

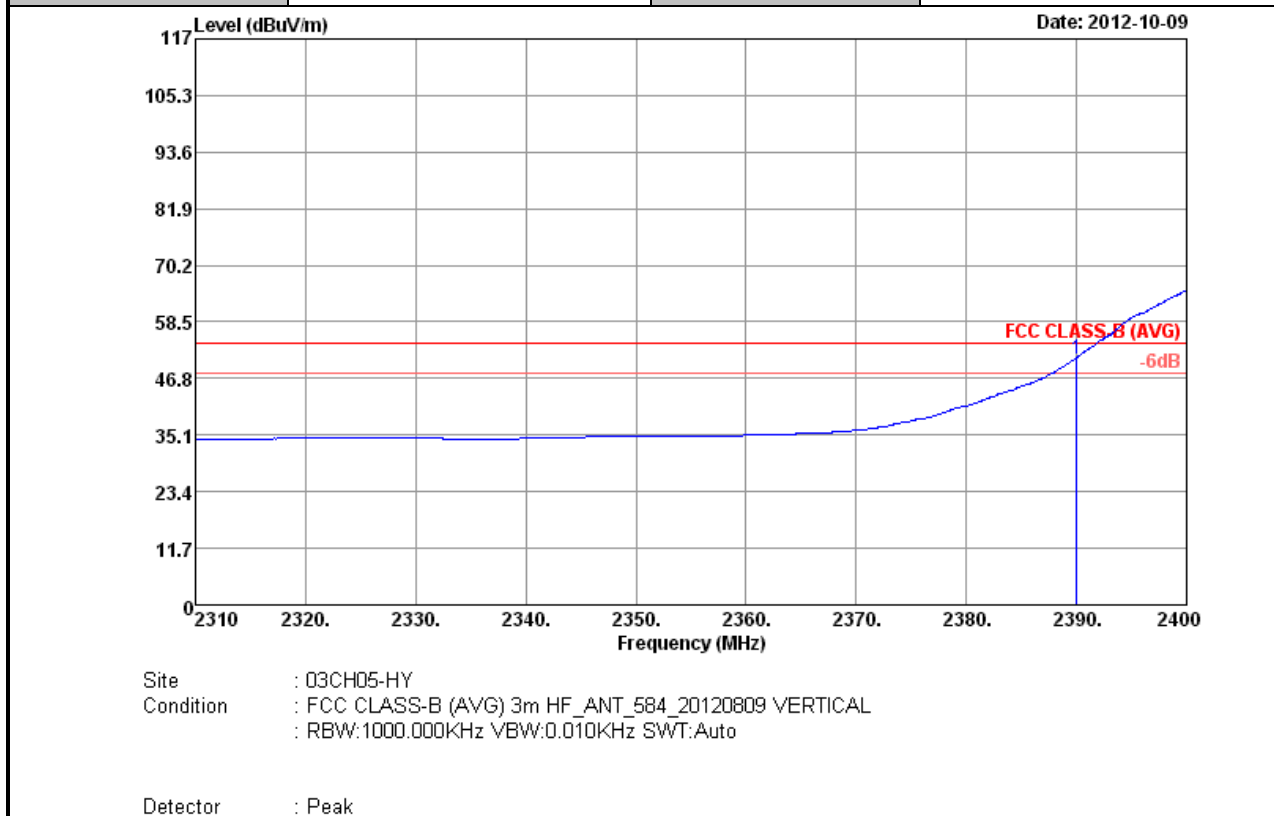
Test Mode :	802.11g	Temperature :	20~22
Test Band :	Low	Relative Humidity :	40~42
Test Channel :	01	Test Engineer :	David Ke


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2389.83	68.31	-5.69	74	67.41	32.18	4.58	35.86	100	41	Peak

Note: Worst case measurement on 2389.83 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2310-2390MHz. And, 2390-2400 MHz is non-restricted band which limit line is 20dB below the fundamental frequency emission level which is tested by conducted spurious emission. Both the test results are compliance with the FCC limit line.

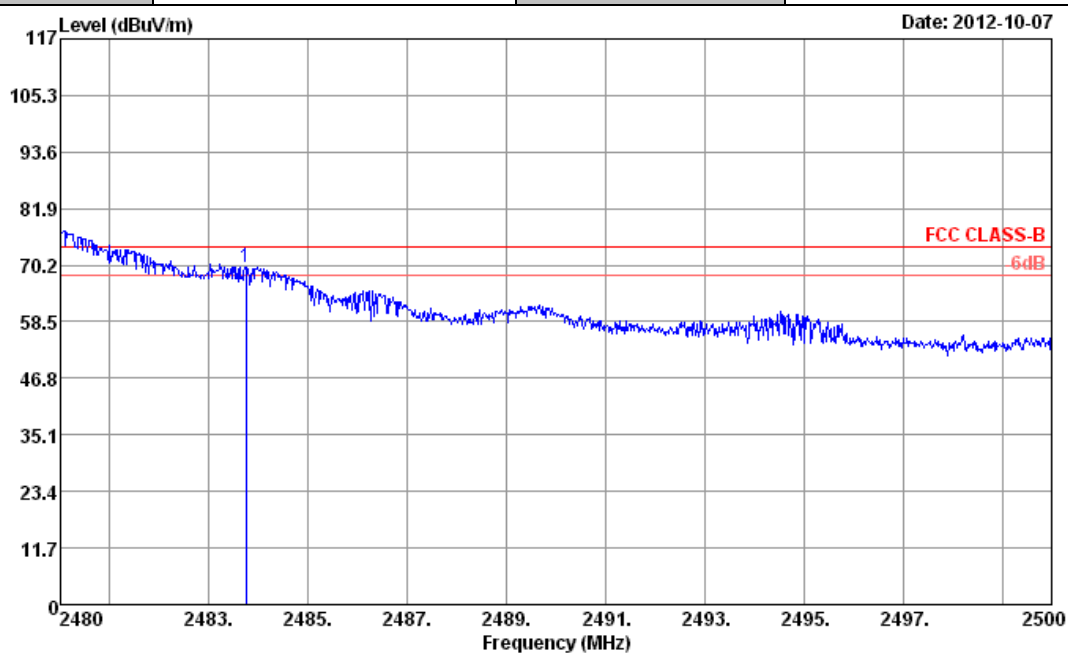
Test Mode :	802.11g	Temperature :	20~22
Test Band :	Low	Relative Humidity :	40~42
Test Channel :	01	Test Engineer :	David Ke


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390	50.69	-3.31	54	49.79	32.18	4.58	35.86	100	41	Average

Note: Worst case measurement on 2390 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2310-2390MHz. And, 2390-2400 MHz is non-restricted band which limit line is 20dB below the fundamental frequency emission level which is tested by conducted spurious emission. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11g	Temperature :	20~22
Test Band :	High	Relative Humidity :	40~42
Test Channel :	11	Test Engineer :	David Ke



Site : 03CH05-HY
Condition : FCC CLASS-B 3m HF_ANT_584_20120809 HORIZONTAL
: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

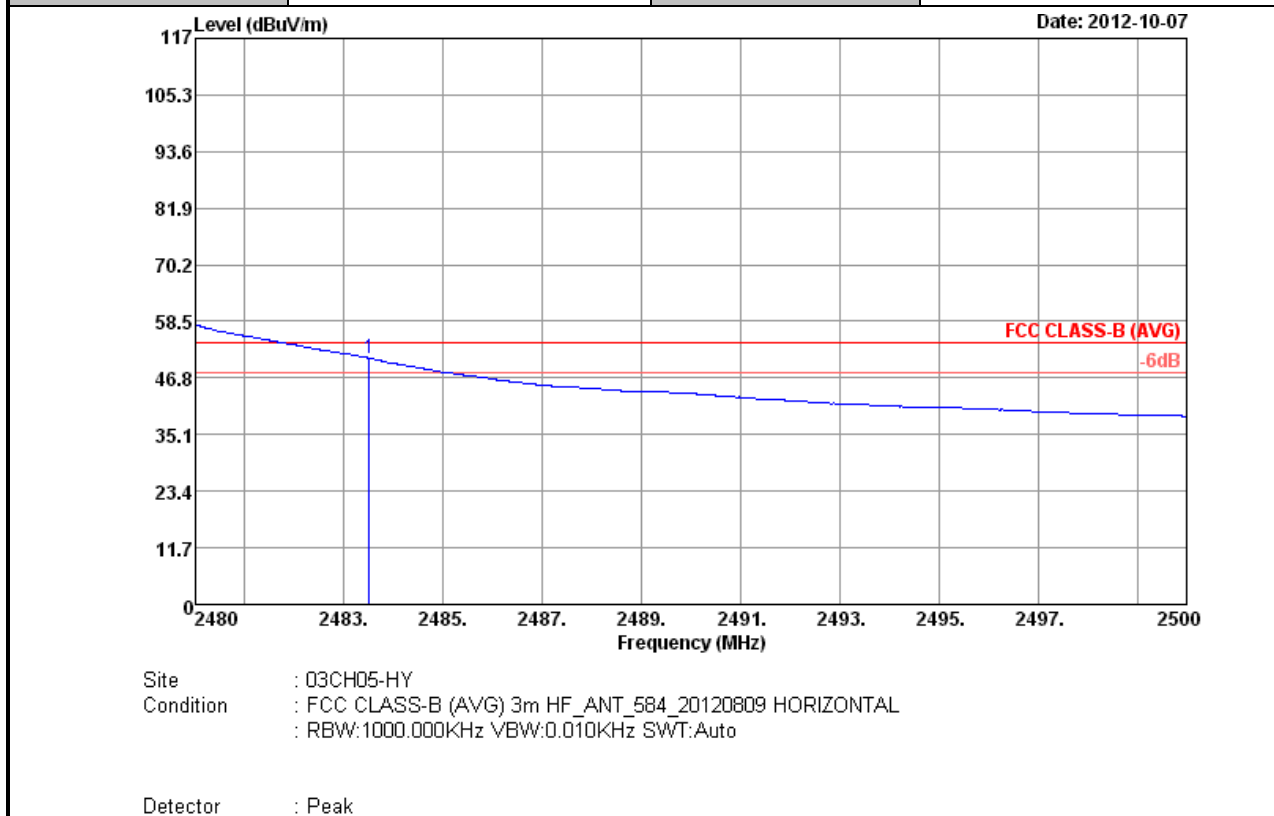
Detector : Peak

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.74	69.75	-4.25	74	68.64	32.28	4.64	35.81	141	65	Peak

Note: Worst case measurement on 2483.74 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2483.5-2500MHz. And, 2480-2483.5MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11g	Temperature :	20~22
Test Band :	High	Relative Humidity :	40~42
Test Channel :	11	Test Engineer :	David Ke

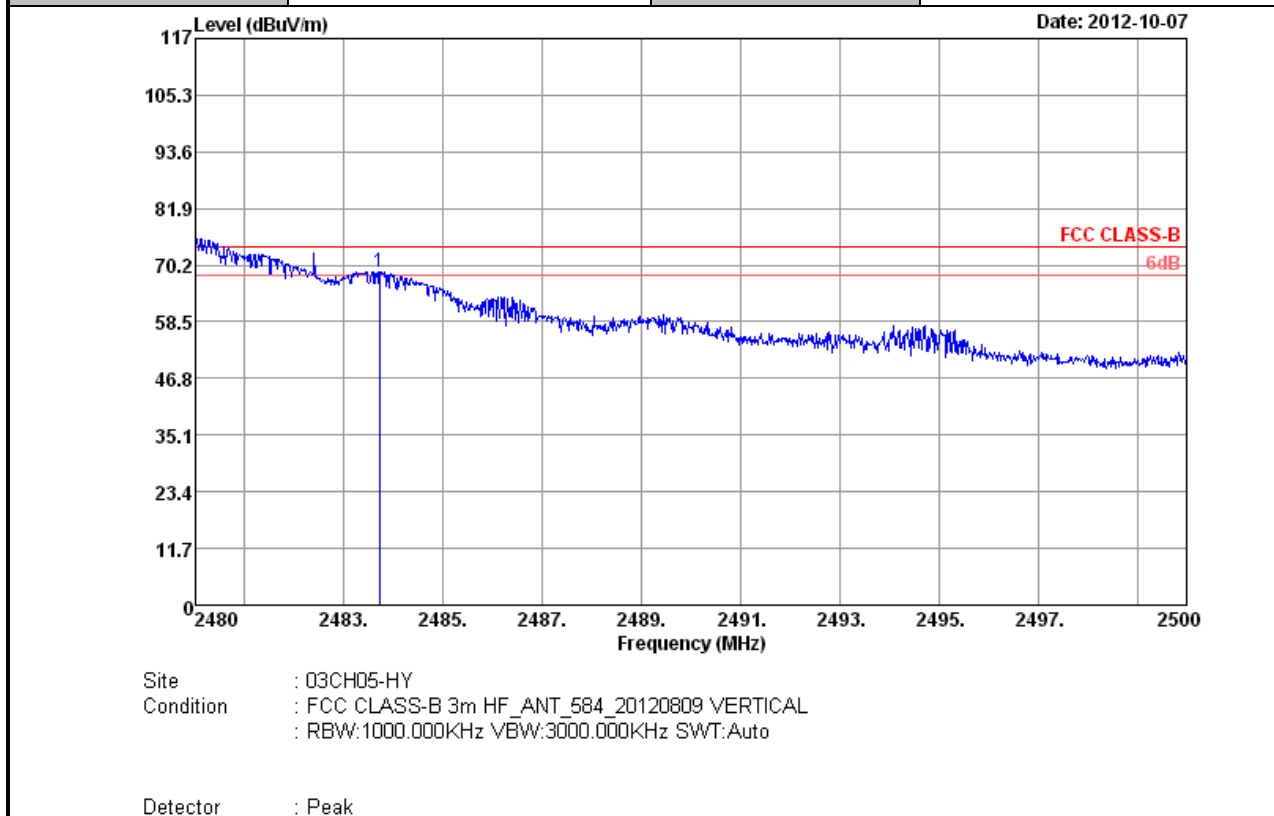

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.5	50.93	-3.07	54	49.82	32.28	4.64	35.81	141	65	Average

Note: Worst case measurement on 2483.5 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2483.5-2500MHz. And, 2480-2483.5MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.



Test Mode :	802.11g	Temperature :	20~22
Test Band :	High	Relative Humidity :	40~42
Test Channel :	11	Test Engineer :	David Ke



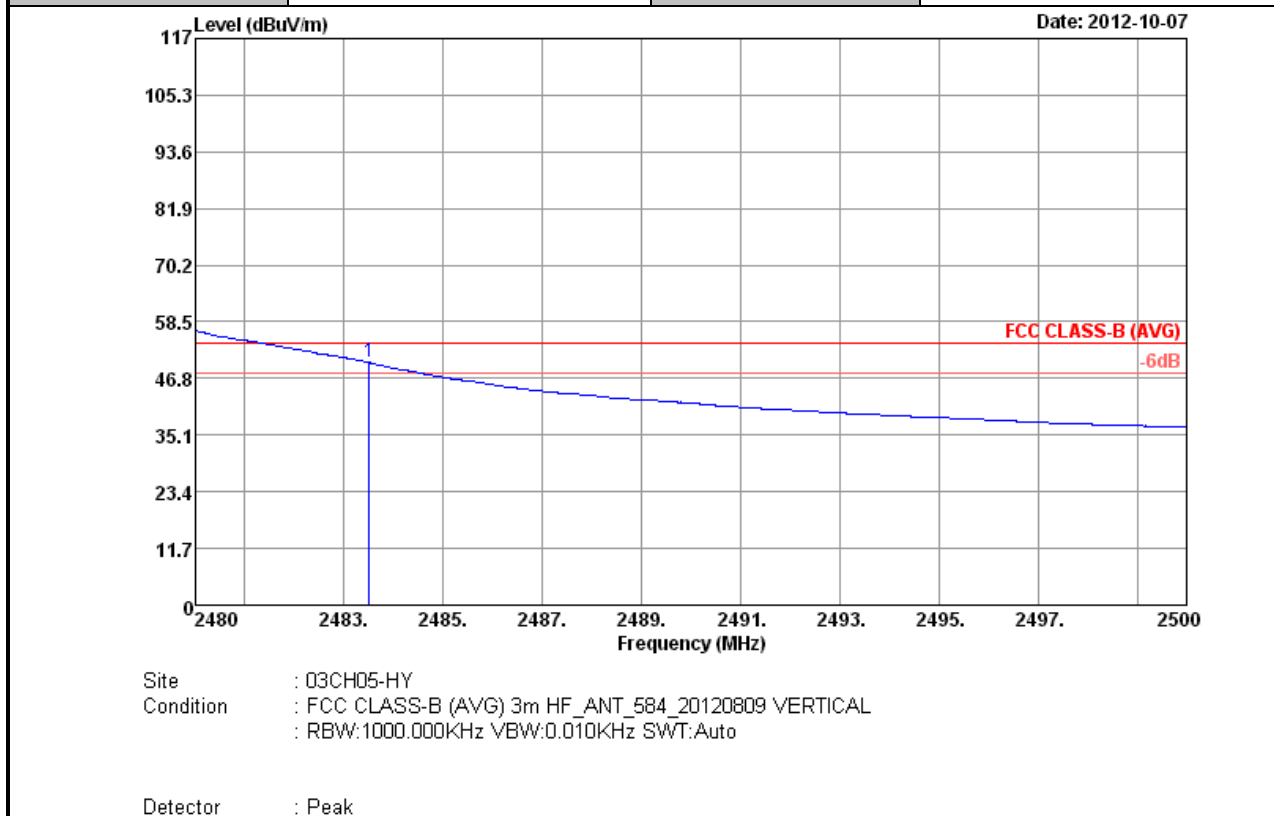
ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.72	68.88	-5.12	74	67.77	32.28	4.64	35.81	100	120	Peak

Note: Worst case measurement on 2483.72 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2483.5-2500MHz. And, 2480-2483.5MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.



Test Mode :	802.11g	Temperature :	20~22
Test Band :	High	Relative Humidity :	40~42
Test Channel :	11	Test Engineer :	David Ke

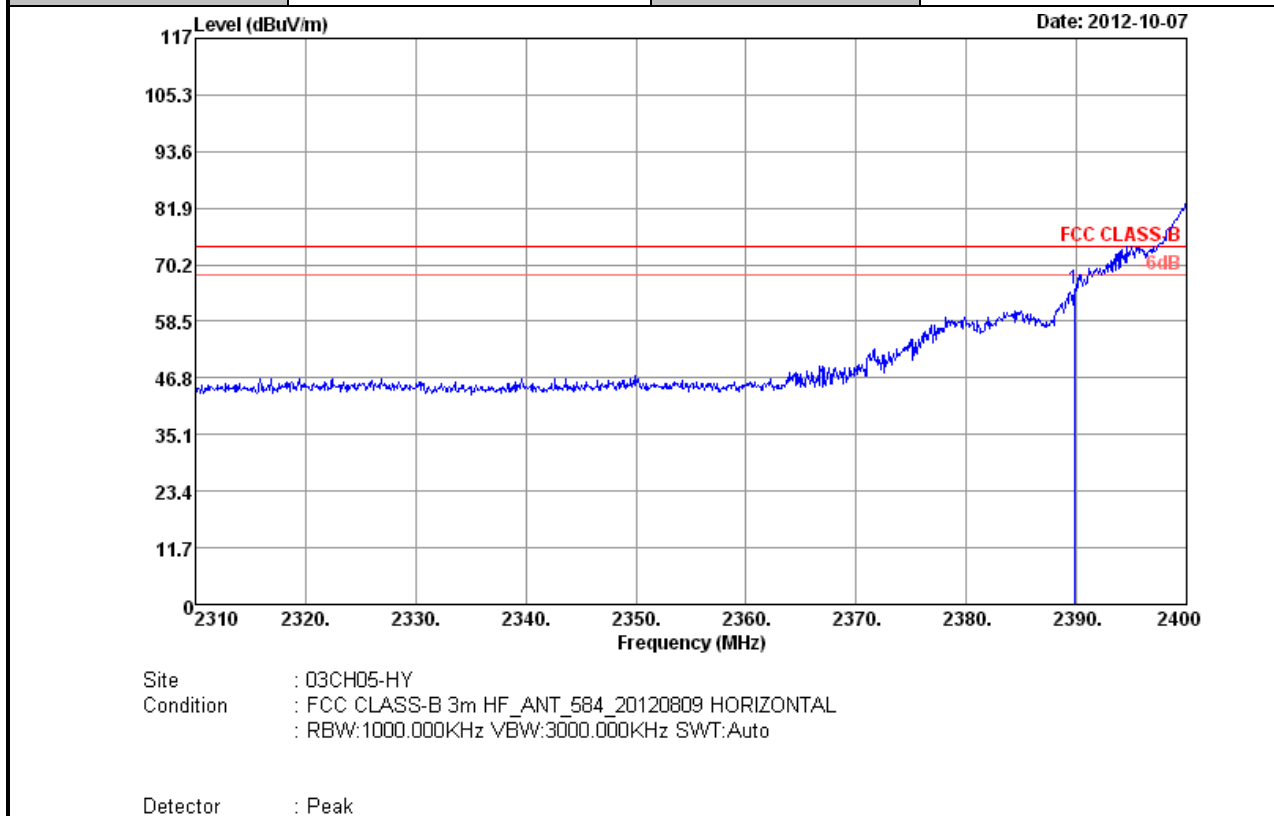


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.5	50.05	-3.95	54	48.94	32.28	4.64	35.81	100	120	Average

Note: Worst case measurement on 2483.5 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2483.5-2500MHz. And, 2480-2483.5MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

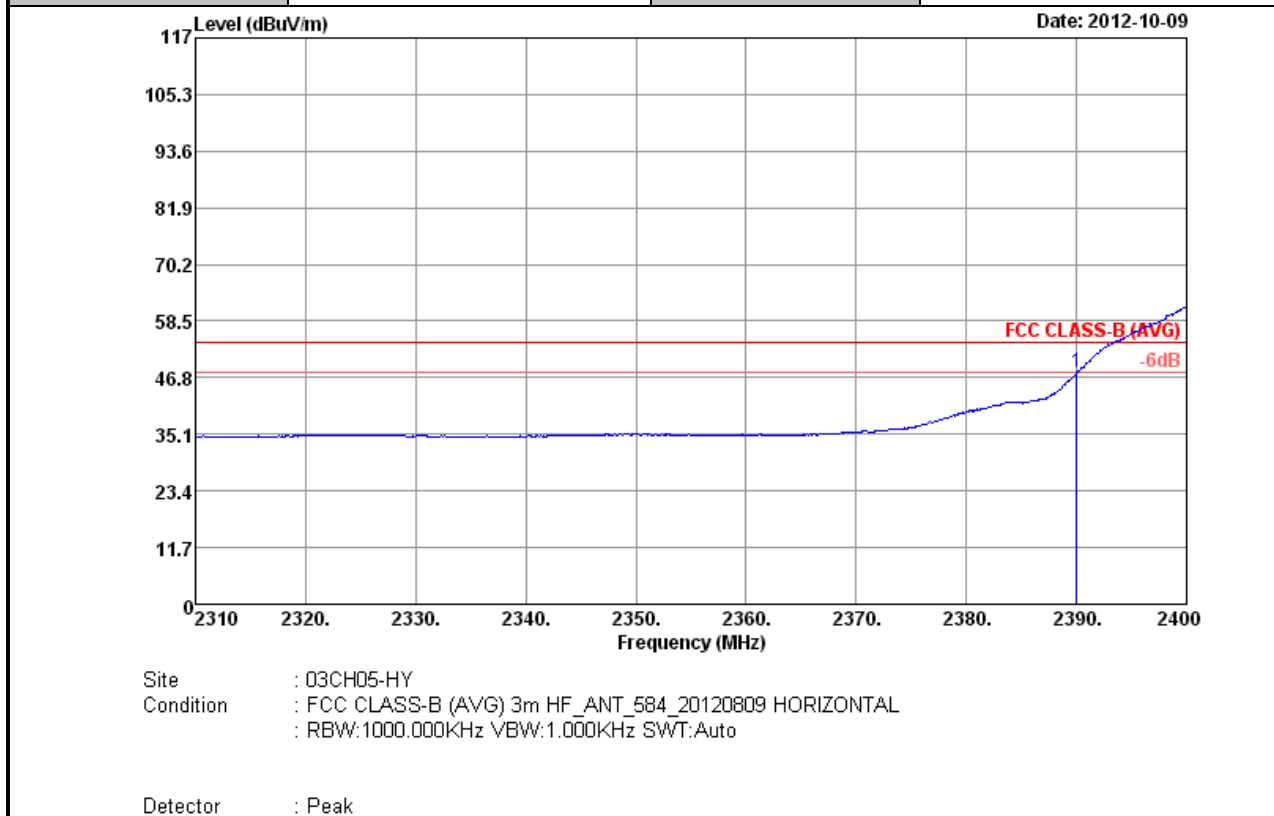
Test Mode :	802.11n HT20	Temperature :	20~22
Test Band :	Low	Relative Humidity :	40~42
Test Channel :	01	Test Engineer :	David Ke


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2389.83	65.1	-8.9	74	64.2	32.18	4.58	35.86	112	63	Peak

Note: Worst case measurement on 2389.83 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2310-2390MHz. And, 2390-2400 MHz is non-restricted band which limit line is 20dB below the fundamental frequency emission level which is tested by conducted spurious emission. Both the test results are compliance with the FCC limit line.

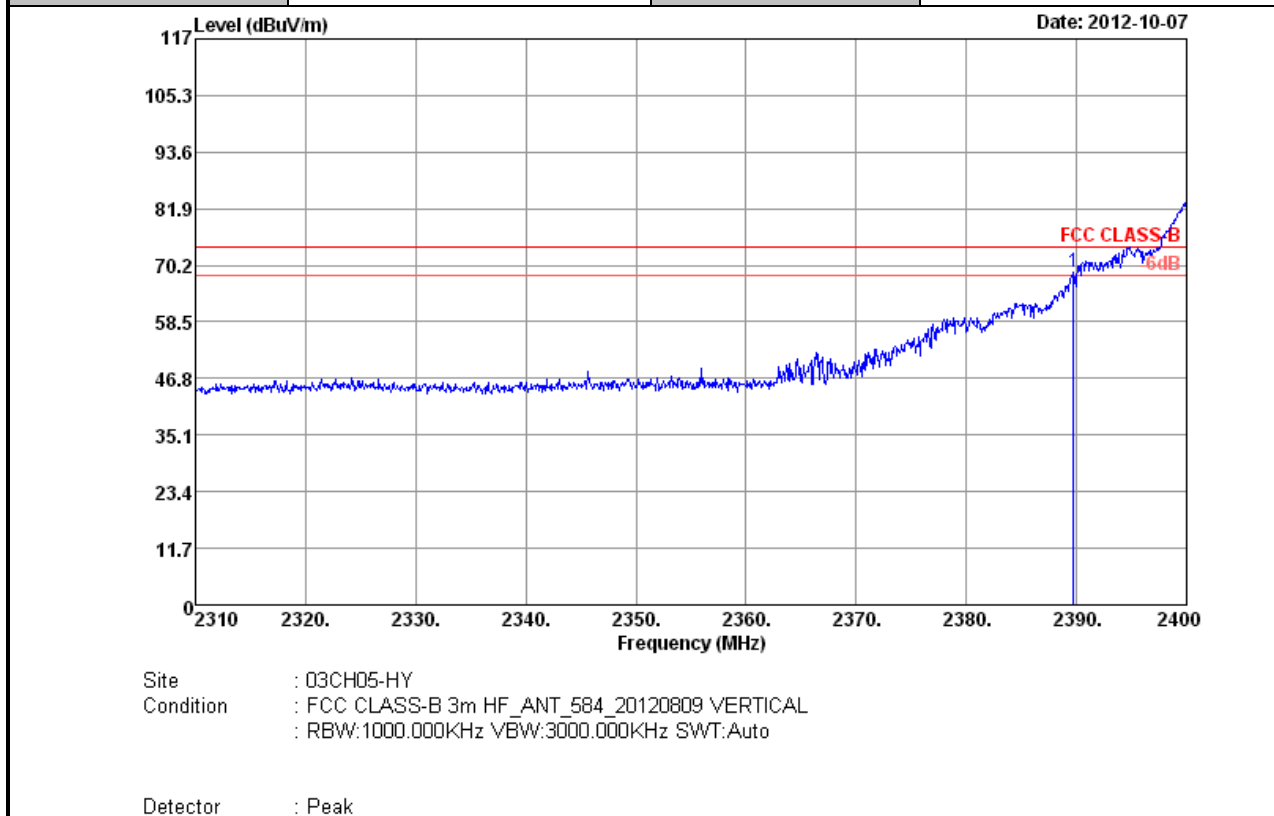
Test Mode :	802.11n HT20	Temperature :	20~22
Test Band :	Low	Relative Humidity :	40~42
Test Channel :	01	Test Engineer :	David Ke


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390	47.78	-6.22	54	46.88	32.18	4.58	35.86	112	63	Average

Note: Worst case measurement on 2390 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2310-2390MHz. And, 2390-2400 MHz is non-restricted band which limit line is 20dB below the fundamental frequency emission level which is tested by conducted spurious emission. Both the test results are compliance with the FCC limit line.

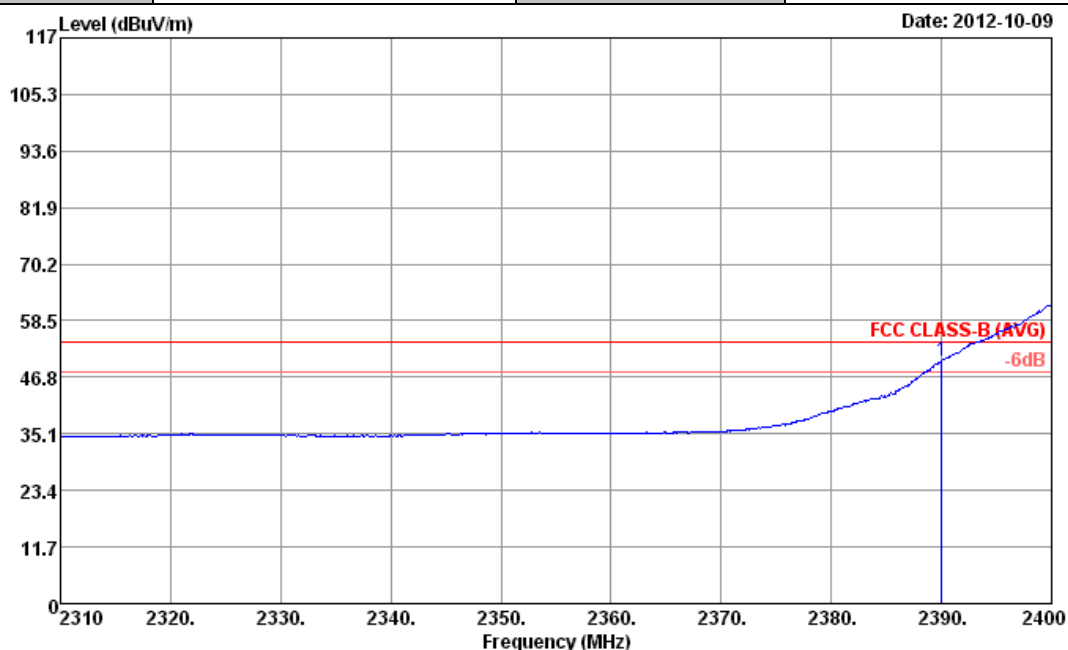
Test Mode :	802.11n HT20	Temperature :	20~22
Test Band :	Low	Relative Humidity :	40~42
Test Channel :	01	Test Engineer :	David Ke


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2389.74	68.81	-5.19	74	67.93	32.18	4.58	35.88	100	41	Peak

Note: Worst case measurement on 2389.74 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2310-2390MHz. And, 2390-2400 MHz is non-restricted band which limit line is 20dB below the fundamental frequency emission level which is tested by conducted spurious emission. Both the test results are compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	20~22
Test Band :	Low	Relative Humidity :	40~42
Test Channel :	01	Test Engineer :	David Ke



Site : 03CH05-HY
Condition : FCC CLASS-B (AVG) 3m HF_ANT_584_20120809 VERTICAL
: RBW:1000.000KHz VBW:1.000KHz SWT:Auto

Detector : Peak

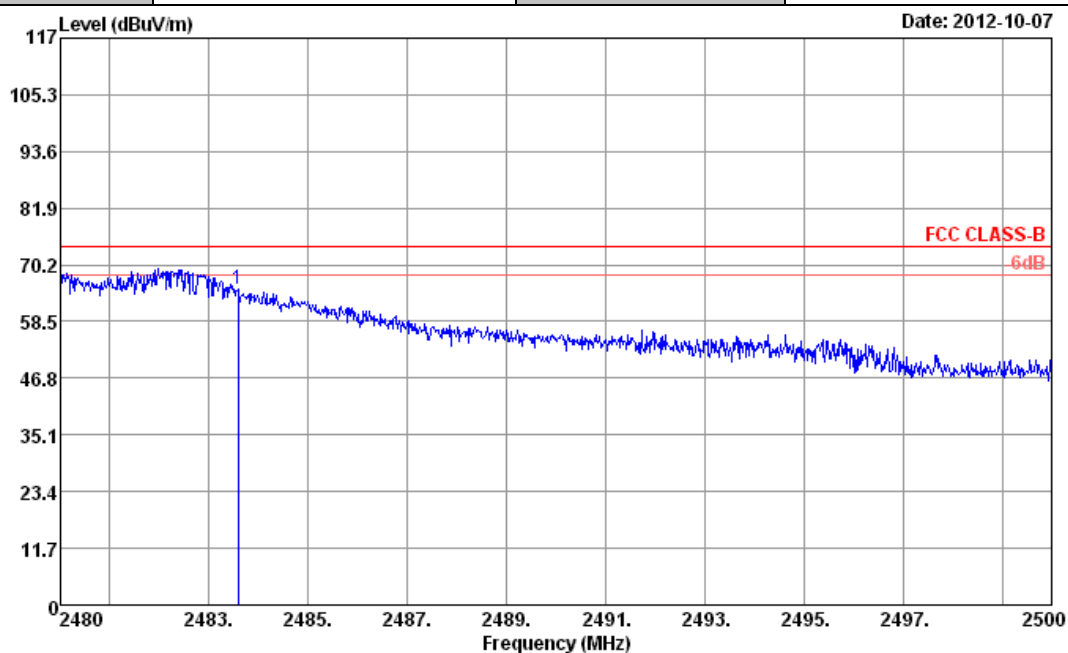
ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2390	50.33	-3.67	54	49.43	32.18	4.58	35.86	100	41	Average

Note: Worst case measurement on 2390 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2310-2390MHz. And, 2390-2400 MHz is non-restricted band which limit line is 20dB below the fundamental frequency emission level which is tested by conducted spurious emission. Both the test results are compliance with the FCC limit line.



Test Mode :	802.11n HT20	Temperature :	20~22
Test Band :	High	Relative Humidity :	40~42
Test Channel :	11	Test Engineer :	David Ke



Site : 03CH05-HY
Condition : FCC CLASS-B 3m HF_ANT_584_20120809 HORIZONTAL
: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

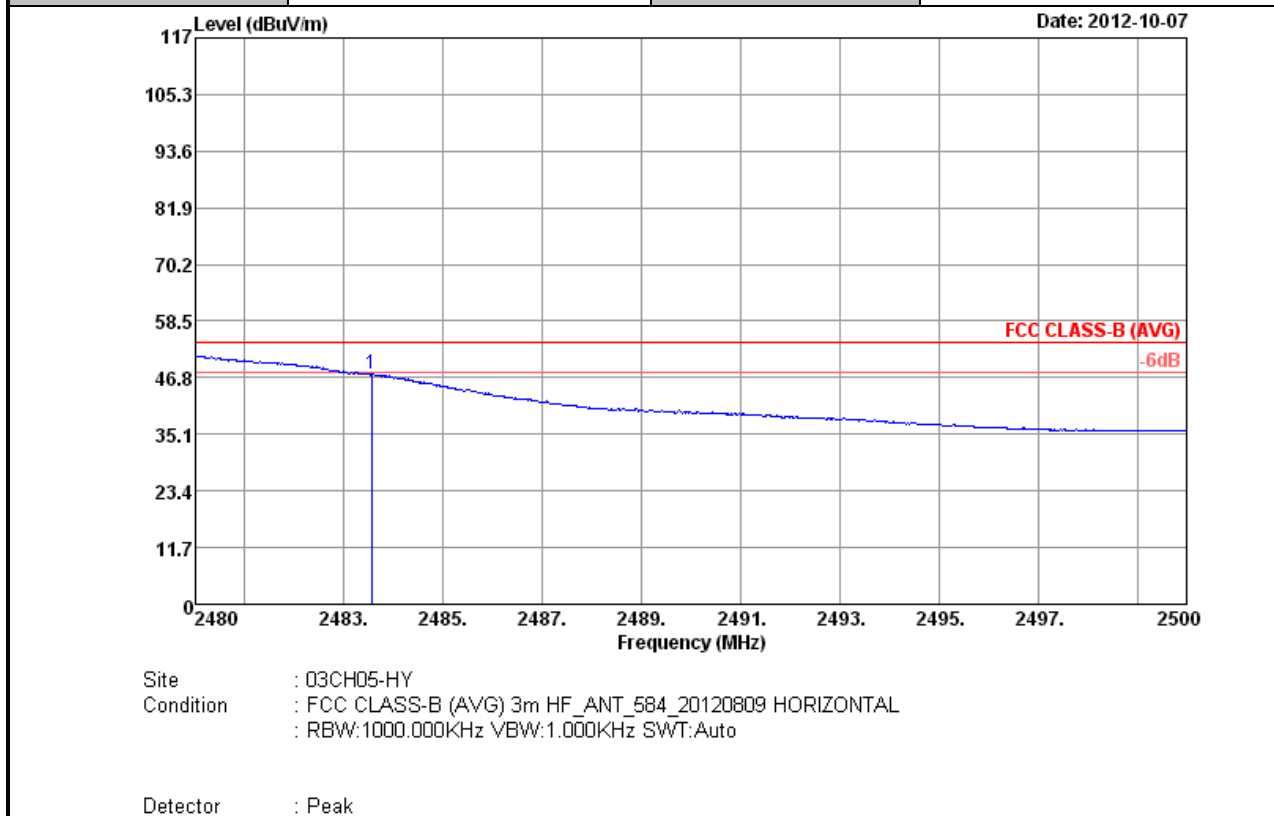
Detector : Peak

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
2483.58	65.29	-8.71	74	64.18	32.28	4.64	35.81	118	70	Peak

Note: Worst case measurement on 2483.58 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2483.5-2500MHz. And, 2480-2483.5MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

Test Mode :	802.11n HT20	Temperature :	20~22
Test Band :	High	Relative Humidity :	40~42
Test Channel :	11	Test Engineer :	David Ke

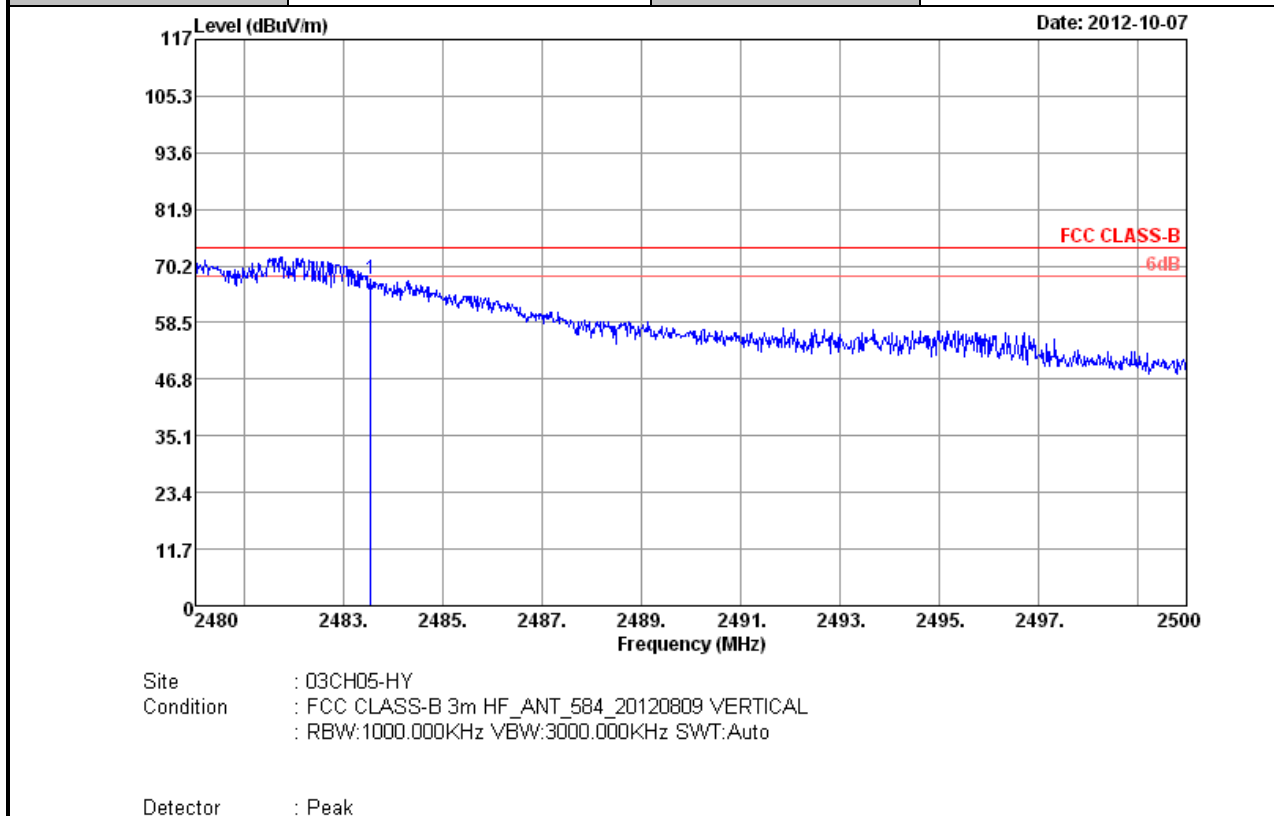

ANTENNA POLARITY : HORIZONTAL

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
2483.56	47.64	-6.36	54	46.53	32.28	4.64	35.81	118	70	Average

Note: Worst case measurement on 2483.56 MHz is compliance with 74/54 dBUV/m (peak/average) limit and band edge measurement in the restricted band 2483.5-2500MHz. And, 2480-2483.5MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.



Test Mode :	802.11n HT20	Temperature :	20~22
Test Band :	High	Relative Humidity :	40~42
Test Channel :	11	Test Engineer :	David Ke



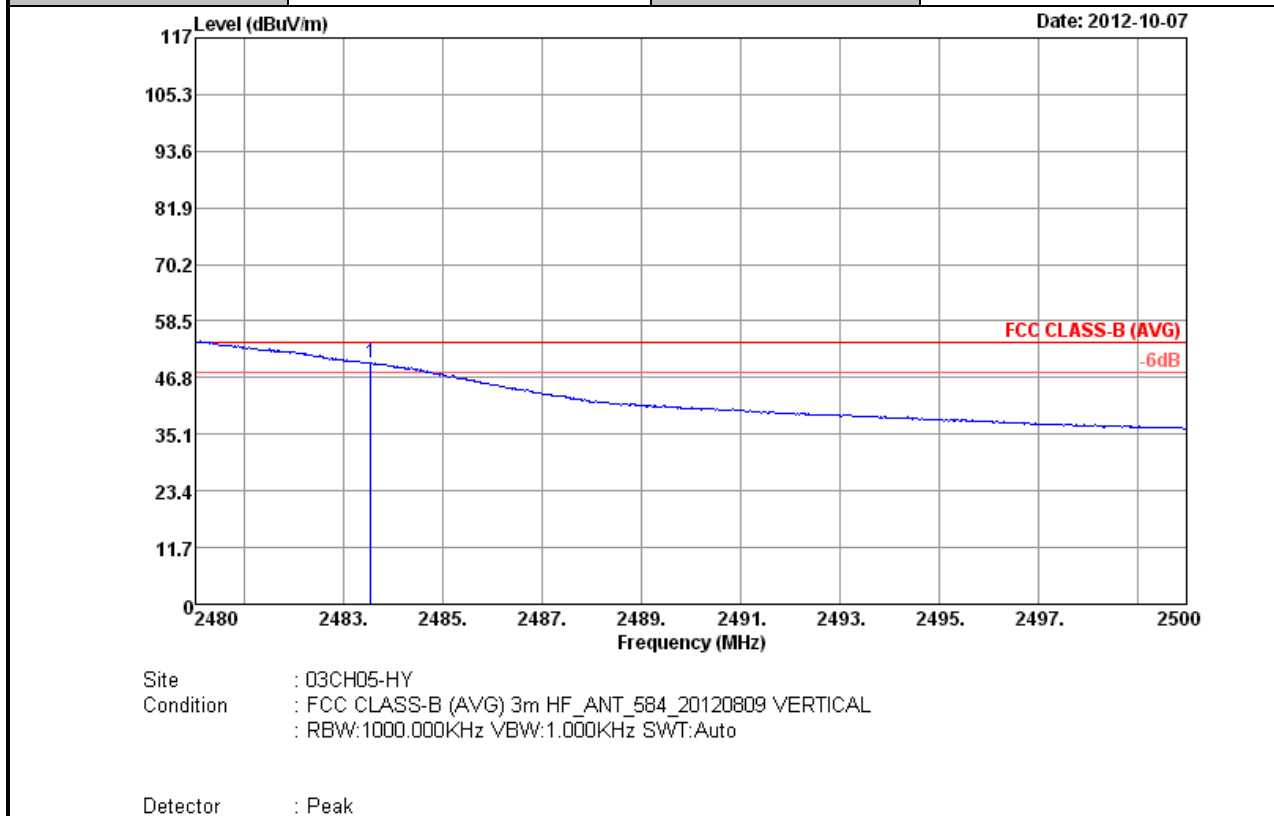
ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.54	67.39	-6.61	74	66.28	32.28	4.64	35.81	100	105	Peak

Note: Worst case measurement on 2483.54 MHz is compliance with 74/54 dBuV/m (peak/average) limit and band edge measurement in the restricted band 2483.5-2500MHz. And, 2480-2483.5MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.



Test Mode :	802.11n HT20	Temperature :	20~22
Test Band :	High	Relative Humidity :	40~42
Test Channel :	11	Test Engineer :	David Ke



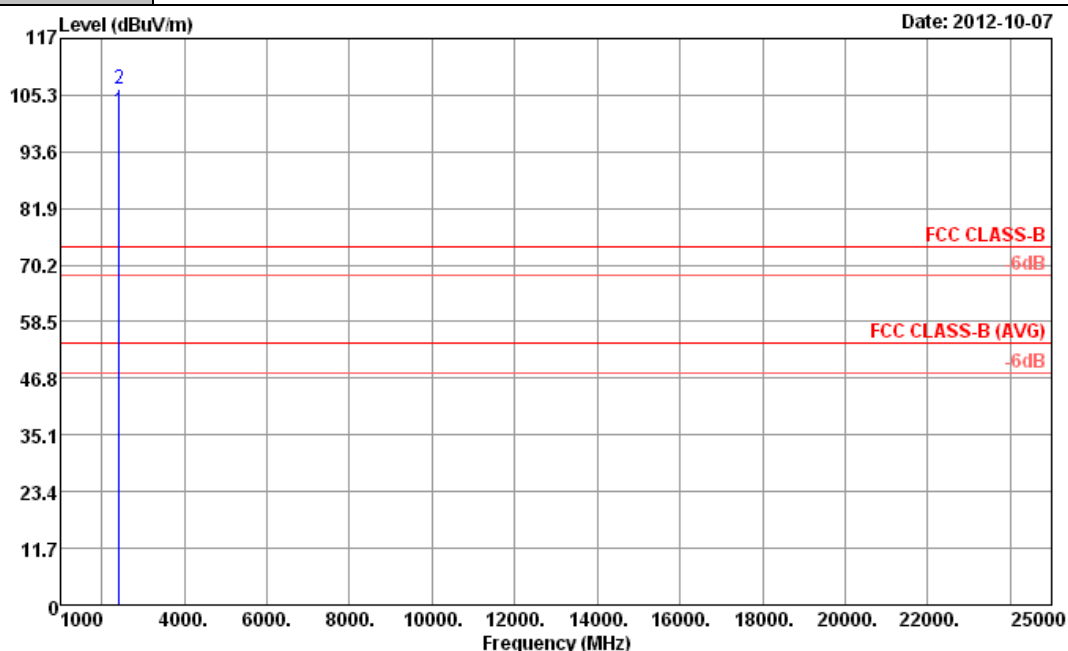
ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2483.54	49.86	-4.14	54	48.75	32.28	4.64	35.81	100	105	Average

Note: Worst case measurement on 2483.54 MHz is compliance with 74/54 dBUV/m (peak/average) limit and band edge measurement in the restricted band 2483.5-2500MHz. And, 2480-2483.5MHz is within the operating band and not within the restricted band. The test result is compliance with the FCC limit line.

3.5.7 Test Result of Radiated Emission (30 MHz ~ 10th Harmonic)

Test Mode :	802.11b	Temperature :	20~22℃
Test Channel :	01	Relative Humidity :	40~42%
Test Engineer :	David Ke		
Remark :	1. 2412 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31. 3. The harmonic (2 nd , 3 rd , 4 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

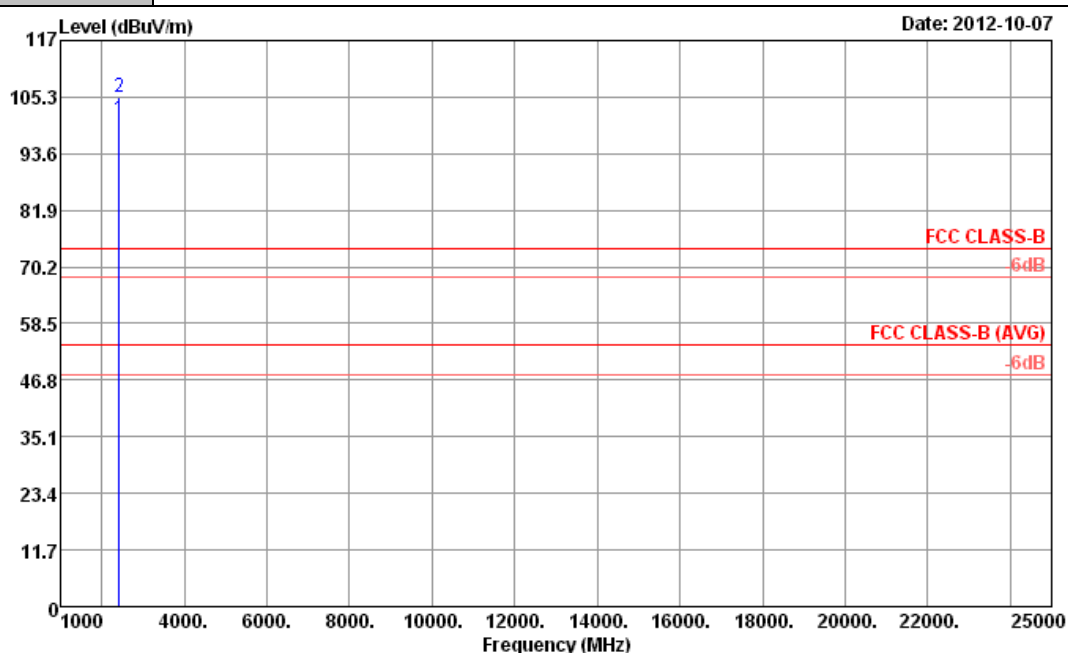


Site : 03CH05-HY
 Condition : FCC CLASS-B 3m SHF_EHF_HORN_091208 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2412	106.71	-	-	105.78	32.2	4.59	35.86	142	61	Peak
2412	101.92	-	-	100.99	32.2	4.59	35.86	142	61	Average
Other harmonics are lower than background noise										

Test Mode :	802.11b	Temperature :	20~22°C
Test Channel :	01	Relative Humidity :	40~42%
Test Engineer :	David Ke		
Remark :	1. 2412 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per 15.31. 3. The harmonic (2 nd , 3 rd , 4 th , ...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

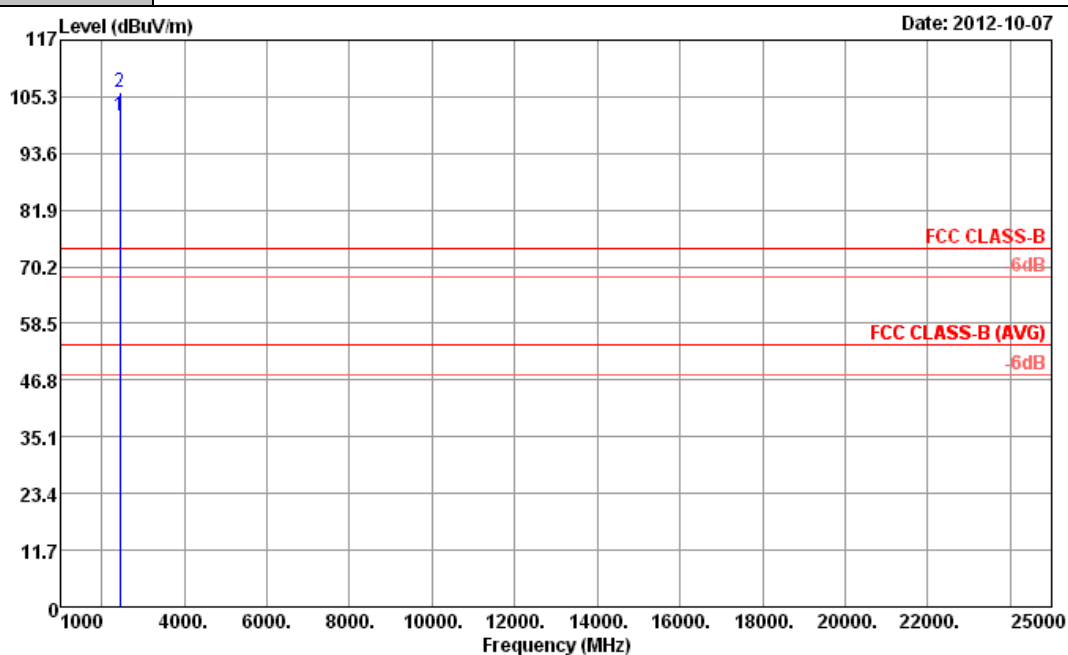


Site : Q3CH05-HY
 Condition : FCC CLASS-B 3m SHF_EHF_HORN_091208 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2412	105.15	-	-	104.22	32.2	4.59	35.86	100	12	Peak
2412	100.71	-	-	99.78	32.2	4.59	35.86	100	12	Average
Other harmonics are lower than background noise										

Test Mode :	802.11b	Temperature :	20~22°C
Test Channel :	06	Relative Humidity :	40~42%
Test Engineer :	David Ke		
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per 15.31. 3. The harmonic (2 nd , 3 rd , 4 th , ...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

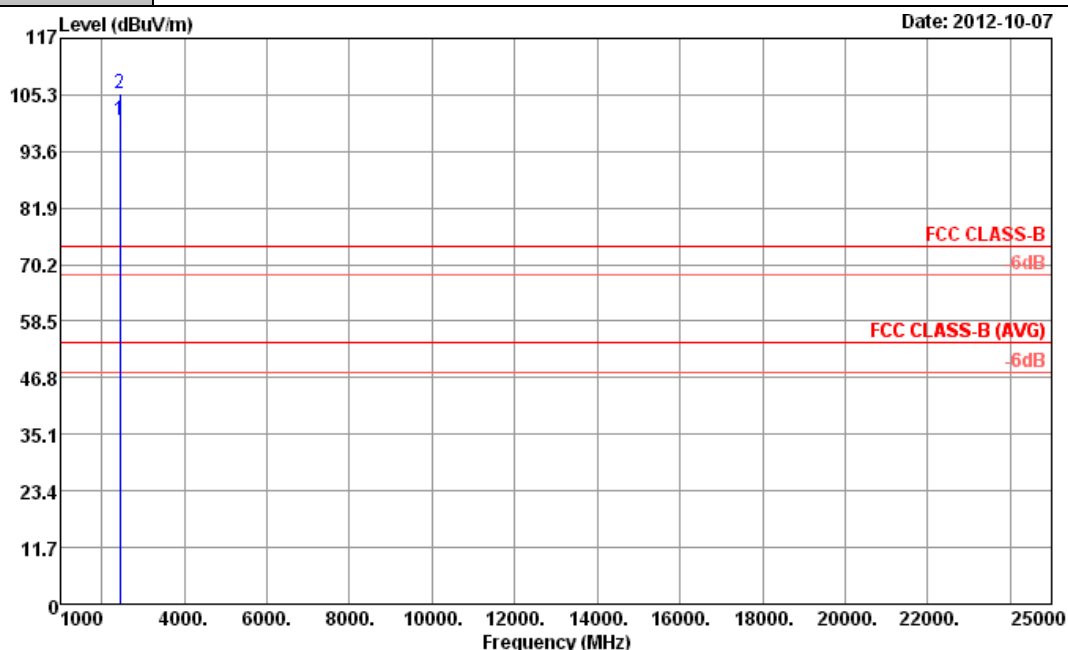


Site : 03CH05-HY
 Condition : FCC CLASS-B 3m SHF_EHF_HORN_091208 HORIZONTAL

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
2437	106.1	-	-	105.09	32.24	4.61	35.84	111	149	Peak
2437	101.37	-	-	100.36	32.24	4.61	35.84	111	149	Average
Other harmonics are lower than background noise										

Test Mode :	802.11b	Temperature :	20~22°C
Test Channel :	06	Relative Humidity :	40~42%
Test Engineer :	David Ke		
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per 15.31. 3. The harmonic (2 nd , 3 rd , 4 th , ...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

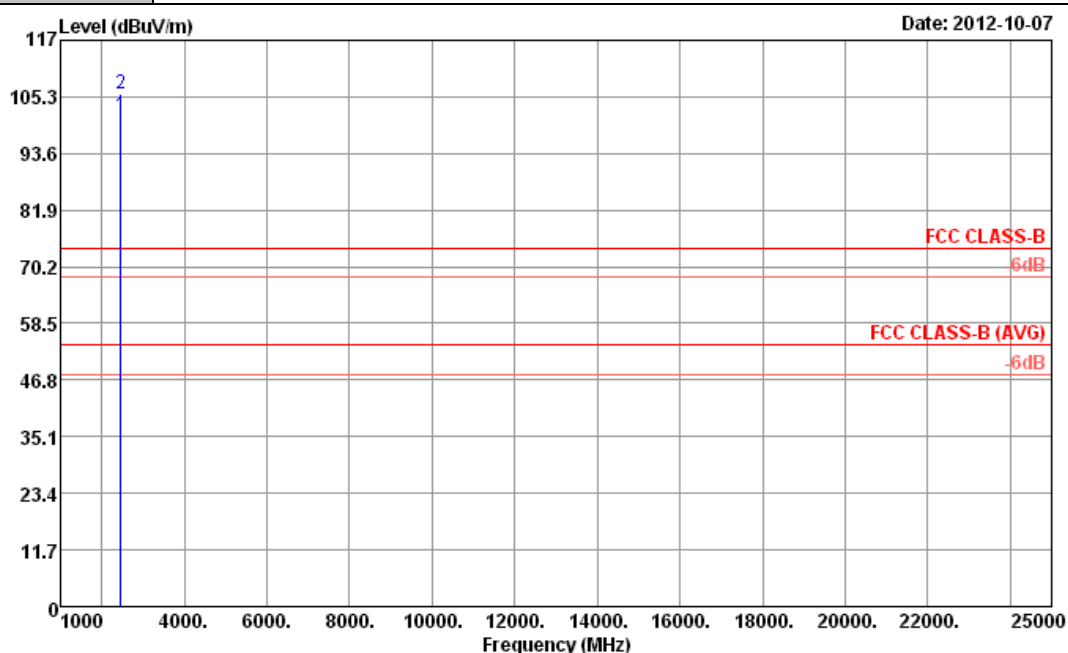


Site : 03CH05-HY
 Condition : FCC CLASS-B 3m SHF_EHF_HORN_091208 VERTICAL

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
2437	105.56	-	-	104.55	32.24	4.61	35.84	100	41	Peak
2437	100.08	-	-	99.07	32.24	4.61	35.84	100	41	Average
Other harmonics are lower than background noise										

Test Mode :	802.11b	Temperature :	20~22°C
Test Channel :	11	Relative Humidity :	40~42%
Test Engineer :	David Ke		
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per 15.31. 3. The harmonic (2 nd , 3 rd , 4 th , ...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

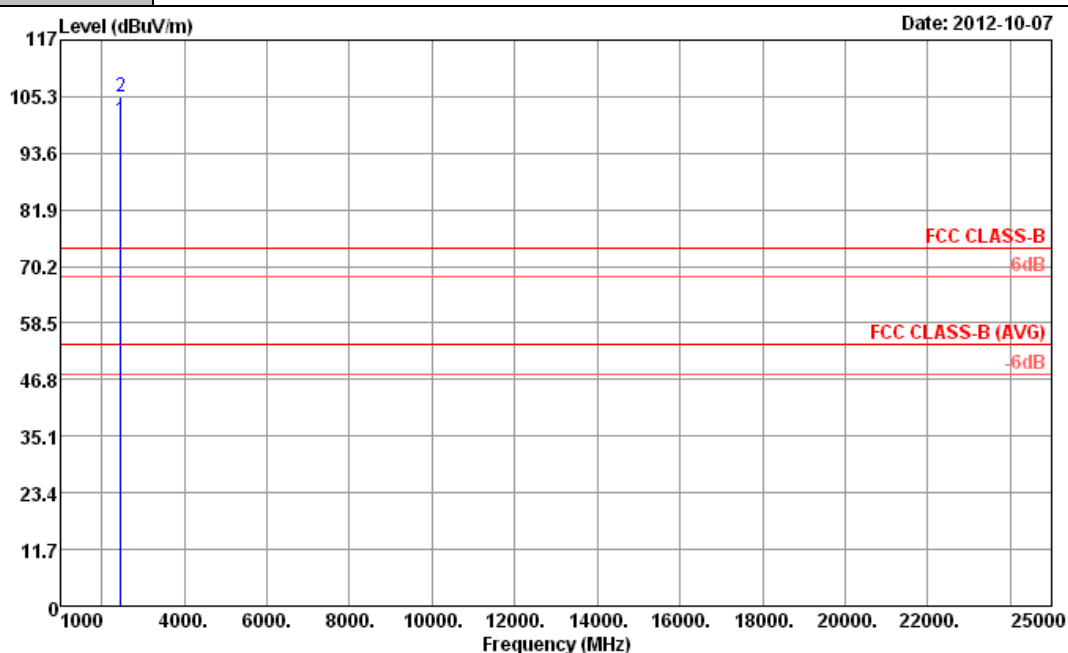


Site : 03CH05-HY
 Condition : FCC CLASS-B 3m SHF_EHF_HORN_091208 HORIZONTAL

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
2462	106.08	-	-	105.03	32.26	4.62	35.83	115	68	Peak
2462	101.22	-	-	100.17	32.26	4.62	35.83	115	68	Average
Other harmonics are lower than background noise										

Test Mode :	802.11b	Temperature :	20~22°C
Test Channel :	11	Relative Humidity :	40~42%
Test Engineer :	David Ke		
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per 15.31. 3. The harmonic (2 nd , 3 rd , 4 th , ...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

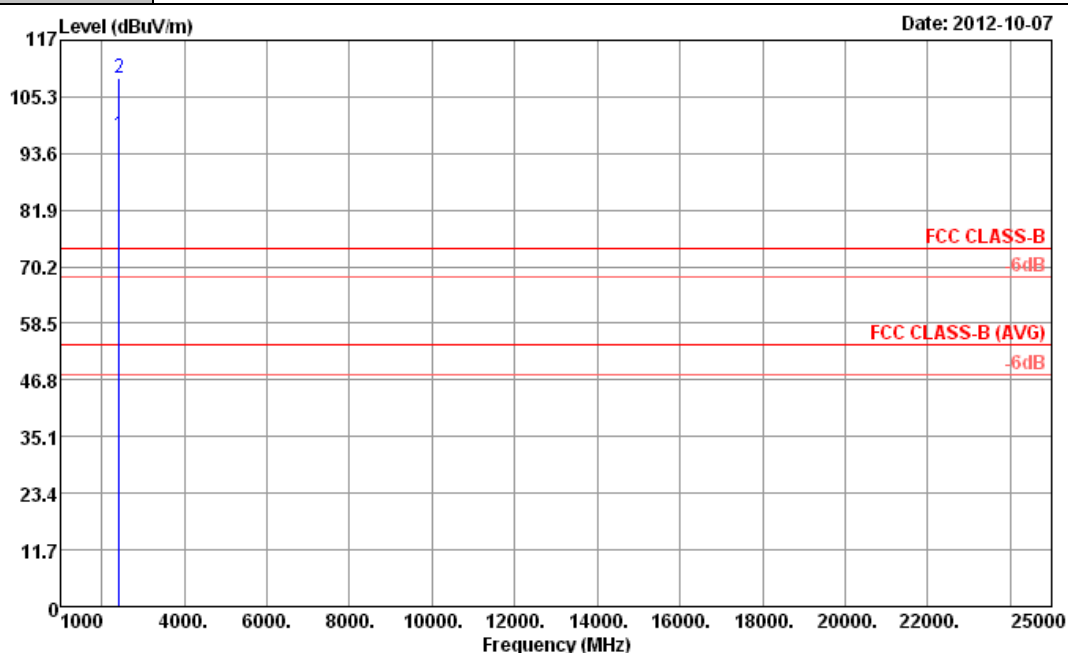


Site : 03CH05-HY
 Condition : FCC CLASS-B 3m SHF_EHF_HORN_091208 VERTICAL

ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2462	105.17	-	-	104.12	32.26	4.62	35.83	121	37	Peak
2462	100.28	-	-	99.23	32.26	4.62	35.83	121	37	Average
Other harmonics are lower than background noise										

Test Mode :	802.11g	Temperature :	20~22°C
Test Channel :	01	Relative Humidity :	40~42%
Test Engineer :	David Ke		
Remark :	1. 2412 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per 15.31. 3. The harmonic (2 nd , 3 rd , 4 th , ...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

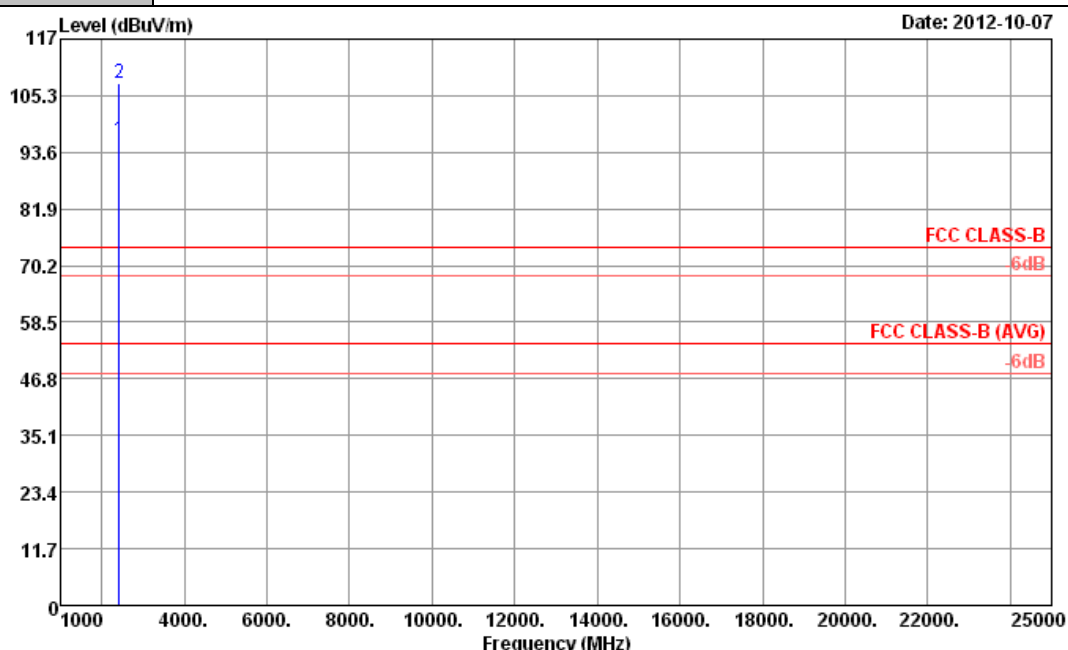


Site : 03CH05-HY
 Condition : FCC CLASS-B 3m SHF_EHF_HORN_091208 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2412	109.02	-	-	108.09	32.2	4.59	35.86	182	68	Peak
2412	97.41	-	-	96.48	32.2	4.59	35.86	182	68	Average
Other harmonics are lower than background noise										

Test Mode :	802.11g	Temperature :	20~22°C
Test Channel :	01	Relative Humidity :	40~42%
Test Engineer :	David Ke		
Remark :	1. 2412 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per 15.31. 3. The harmonic (2 nd , 3 rd , 4 th , ...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		



Site : 03CH05-HY
 Condition : FCC CLASS-B 3m SHF_EHF_HORN_091208 VERTICAL

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
2412	107.9	-	-	106.97	32.2	4.59	35.86	100	41	Peak
2412	96.18	-	-	95.25	32.2	4.59	35.86	100	41	Average
Other harmonics are lower than background noise										

Test Mode :	802.11g	Temperature :	20~22℃
Test Channel :	06	Relative Humidity :	40~42%
Test Engineer :	David Ke		
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31. 3. The harmonic (2 nd , 3 rd , 4 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

Level (dBuV/m)

Date: 2012-10-07

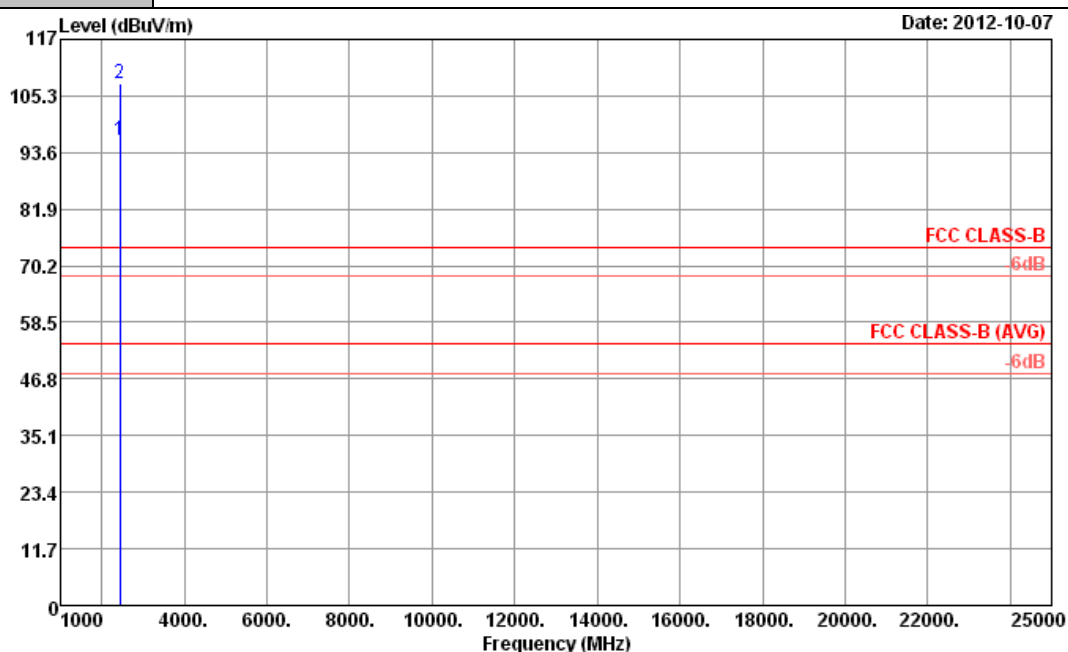
Frequency (MHz)

Site : 03CH05-HY

Condition : FCC CLASS-B 3m SHF_EHF_HORN_091208 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL										
Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
2437	108.59	-	-	107.58	32.24	4.61	35.84	117	73	Peak
2437	97.21	-	-	96.2	32.24	4.61	35.84	117	73	Average
Other harmonics are lower than background noise										

Test Mode :	802.11g	Temperature :	20~22°C
Test Channel :	06	Relative Humidity :	40~42%
Test Engineer :	David Ke		
Remark :	1. 2437 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31. 3. The harmonic (2 nd , 3 rd , 4 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise		

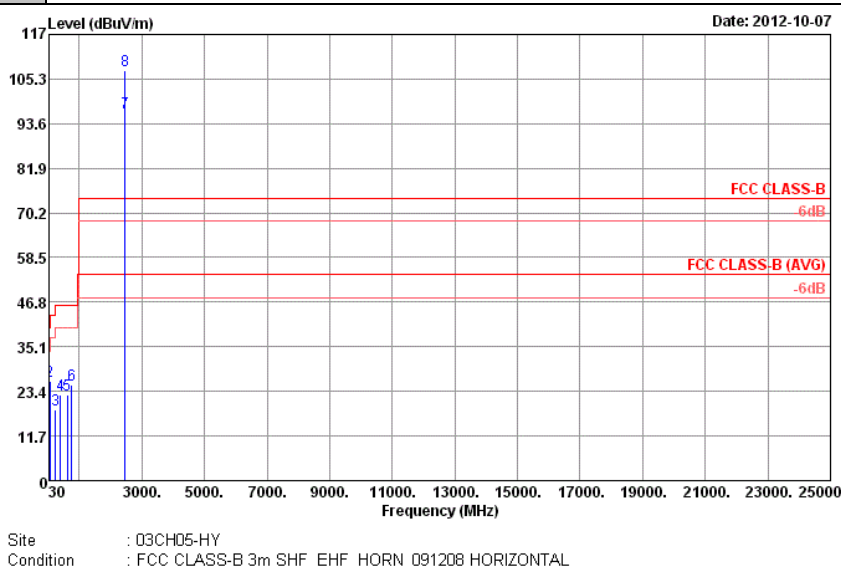


Site : 03CH05-HY
 Condition : FCC CLASS-B 3m SHF_EHF_HORN_091208 VERTICAL

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
2437	107.86	-	-	106.85	32.24	4.61	35.84	100	357	Peak
2437	96	-	-	94.99	32.24	4.61	35.84	100	357	Average
Other harmonics are lower than background noise										

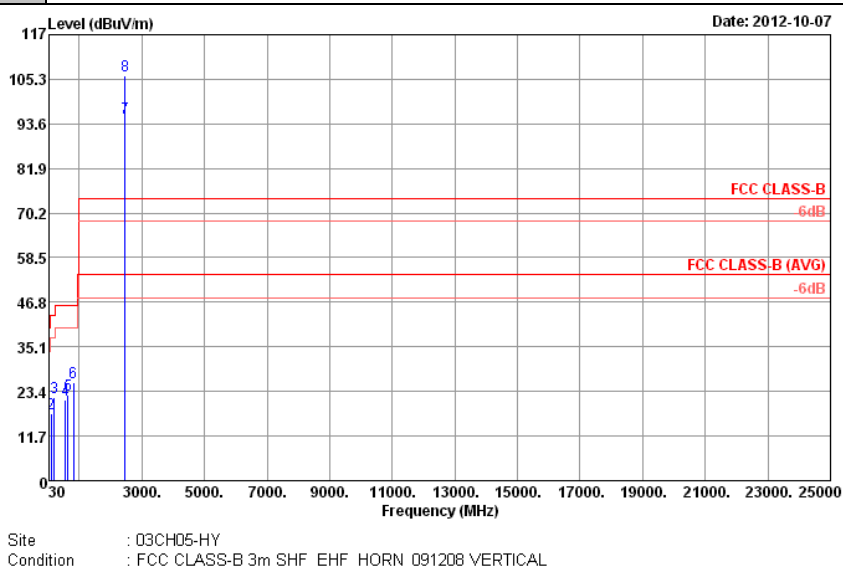
Test Mode :	802.11g	Temperature :	20~22℃
Test Channel :	11	Relative Humidity :	40~42%
Test Engineer :	David Ke		
Remark :	1. 2458 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31. 3. The harmonic (2 nd , 3 rd , 4 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		


ANTENNA POLARITY : HORIZONTAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
30	22.62	-17.38	40	33.76	19.8	0.7	31.64	-	-	Peak
66.45	25.94	-14.06	40	50.52	6.06	0.89	31.53	110	236	Peak
241.95	18.46	-27.54	46	36.04	11.73	1.63	30.94	-	-	Peak
400.1	22.63	-23.37	46	35.8	16.03	2.01	31.21	-	-	Peak
605.9	22.63	-23.37	46	30.48	20.08	2.44	30.37	-	-	Peak
757.1	25.02	-20.98	46	30.07	22.33	2.76	30.14	-	-	Peak
2458	107.57	-	-	106.52	32.26	4.62	35.83	141	65	Peak
2458	96.37	-	-	95.32	32.26	4.62	35.83	141	65	Average

Other harmonics are lower than background noise

Test Mode :	802.11g	Temperature :	20~22°C
Test Channel :	11	Relative Humidity :	40~42%
Test Engineer :	David Ke		
Remark :	1. 2462 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31. 3. The harmonic (2 nd , 3 rd , 4 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		


ANTENNA POLARITY : VERTICAL

Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
32.97	27.56	-12.44	40	40.71	17.76	0.72	31.63	158	44	Peak
104.52	17.48	-26.02	43.5	37.15	10.7	1.12	31.49	-	-	Peak
197.67	21.68	-21.82	43.5	42.36	8.98	1.46	31.12	-	-	Peak
558.3	21.12	-24.88	46	29.47	20.25	2.35	30.95	-	-	Peak
637.4	22.4	-23.6	46	29.43	20.6	2.55	30.18	-	-	Peak
818	25.61	-20.39	46	30	22.52	2.86	29.77	-	-	Peak
2462	106.33	-	-	105.28	32.26	4.62	35.83	100	120	Peak
2462	95.16	-	-	94.11	32.26	4.62	35.83	100	120	Average

Other harmonics are lower than background noise

Test Mode :	802.11n HT20	Temperature :	20~22℃
Test Channel :	01	Relative Humidity :	40~42%
Test Engineer :	David Ke		
Remark :	1. 2412 MHz is fundamental signal which can be ignored. 2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31. 3. The harmonic (2 nd , 3 rd , 4 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise.		

Level (dBuV/m)

117
105.3
93.6
81.9
70.2
58.5
46.8
35.1
23.4
11.7
0

Frequency (MHz)

1000. 4000. 6000. 8000. 10000. 12000. 14000. 16000. 18000. 20000. 22000. 25000

2

FCC CLASS-B

-6dB

FCC CLASS-B (AVG)

-6dB

Date: 2012-10-07

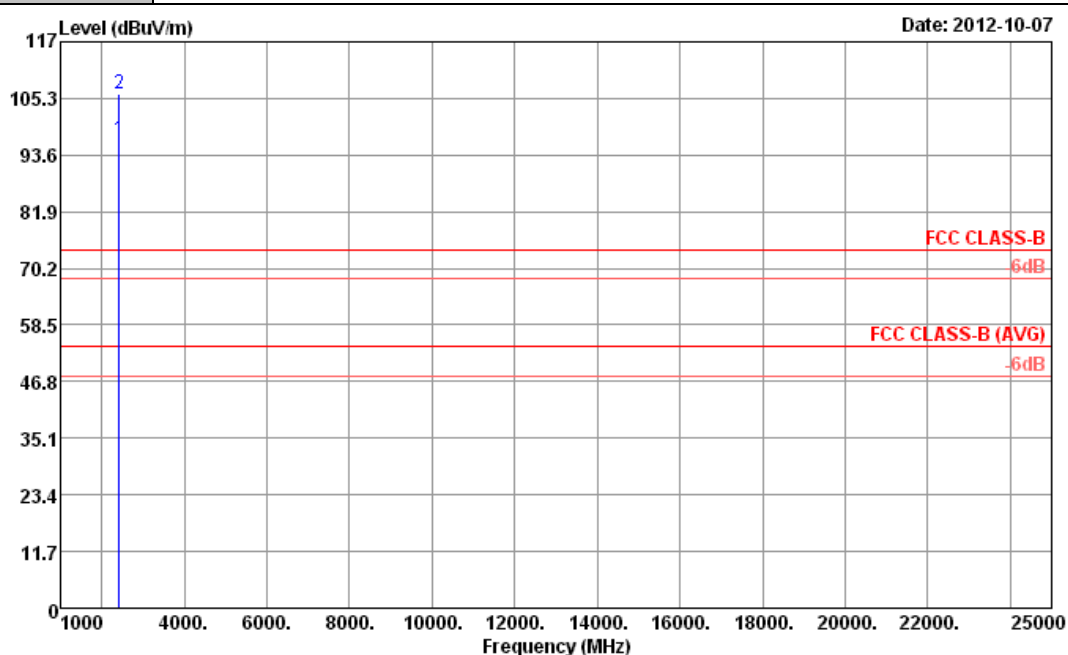
Site : 03CH05-HY

Condition : FCC CLASS-B 3m SHF_EHF_HORN_091208 HORIZONTAL

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency
(MHz) | Level
(dBμV/m) | Over
Limit
(dB) | Limit
Line
(dBμV/m) | Read
Level
(dBμV) | Antenna
Factor
(dB) | Cable
Loss
(dB) | Preamp
Factor
(dB) | Ant
Pos
(cm) | Table
Pos
(deg) | Remark |
| 2412 | 107.34 | - | - | 106.41 | 32.2 | 4.59 | 35.86 | 112 | 63 | Peak |
| 2412 | 97.41 | - | - | 96.48 | 32.2 | 4.59 | 35.86 | 112 | 63 | Average |

Other harmonics are lower than background noise

| | | | |
|------------------------|---|----------------------------|---------|
| Test Mode : | 802.11n HT20 | Temperature : | 20~22°C |
| Test Channel : | 01 | Relative Humidity : | 40~42% |
| Test Engineer : | David Ke | | |
| Remark : | 1. 2412 MHz is fundamental signal which can be ignored.
2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.
3. The harmonic (2 nd , 3 rd , 4 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise. | | |

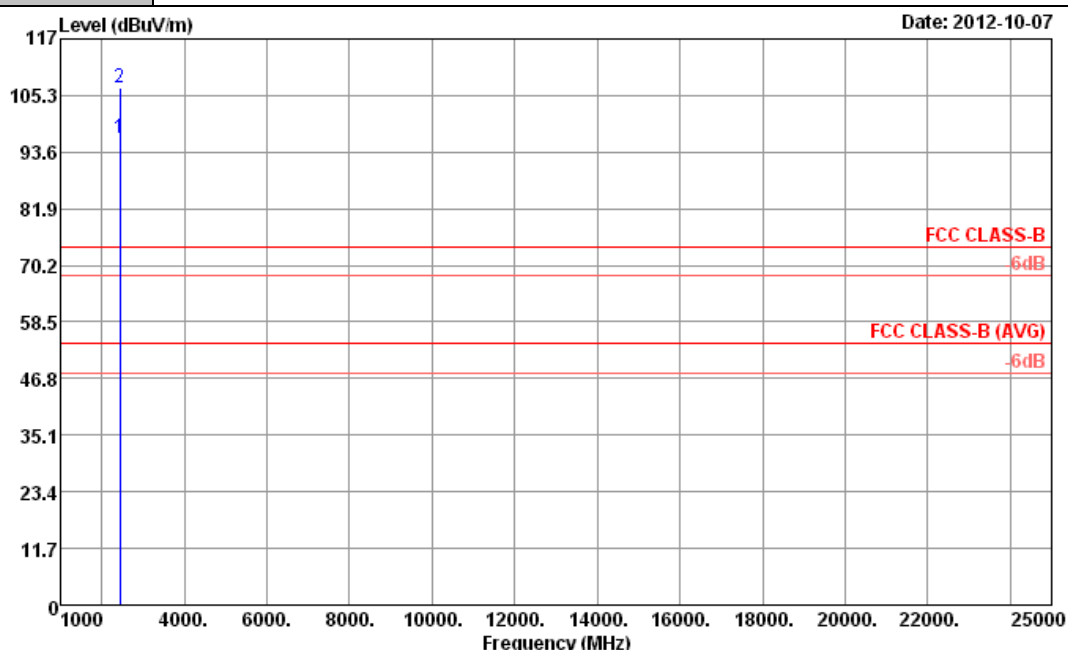


Site : 03CH05-HY
 Condition : FCC CLASS-B 3m SHF_EHF_HORN_091208 VERTICAL

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 |
|---|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2412 | 106.32 | - | - | 105.39 | 32.2 | 4.59 | 35.86 | 100 | 41 | Peak |
| 2412 | 96.92 | - | - | 95.99 | 32.2 | 4.59 | 35.86 | 100 | 41 | Average |
| Other harmonics are lower than background noise | | | | | | | | | | |

| | | | |
|------------------------|---|----------------------------|---------|
| Test Mode : | 802.11n HT20 | Temperature : | 20~22°C |
| Test Channel : | 06 | Relative Humidity : | 40~42% |
| Test Engineer : | David Ke | | |
| Remark : | 1. 2437 MHz is fundamental signal which can be ignored.
2. Test result of emissions which are 20 dB lower than the limit is not reported per 15.31.
3. The harmonic (2 nd , 3 rd , 4 th , ...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise. | | |

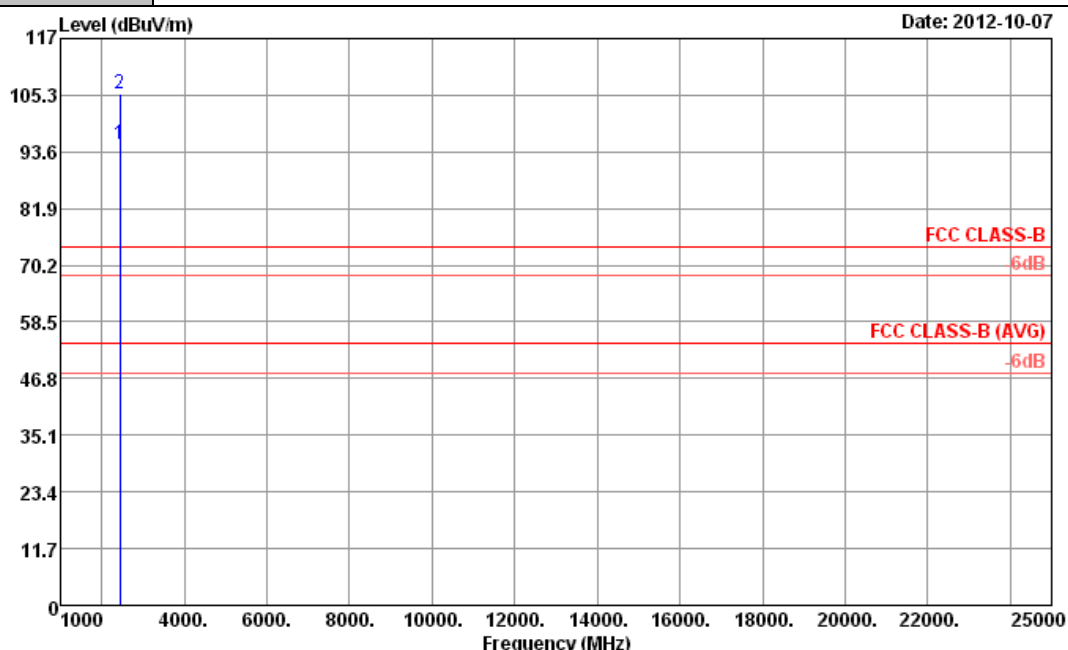


Site : 03CH05-HY
 Condition : FCC CLASS-B 3m SHF_EHF_HORN_091208 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

| Frequency
(MHz) | Level
(dBμV/m) | Over
Limit
(dB) | Limit
Line
(dBμV/m) | Read
Level
(dBμV) | Antenna
Factor
(dB) | Cable
Loss
(dB) | Preamp
Factor
(dB) | Ant
Pos
(cm) | Table
Pos
(deg) | Remark |
|---|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2437 | 106.81 | - | - | 105.8 | 32.24 | 4.61 | 35.84 | 116 | 64 | Peak |
| 2437 | 96.54 | - | - | 95.53 | 32.24 | 4.61 | 35.84 | 116 | 64 | Average |
| Other harmonics are lower than background noise | | | | | | | | | | |

| | | | |
|------------------------|---|----------------------------|---------|
| Test Mode : | 802.11n HT20 | Temperature : | 20~22°C |
| Test Channel : | 06 | Relative Humidity : | 40~42% |
| Test Engineer : | David Ke | | |
| Remark : | 1. 2437 MHz is fundamental signal which can be ignored.
2. Test result of emissions which are 20 dB lower than the limit is not reported per15.31.
3. The harmonic (2 nd , 3 rd , 4 th ,...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise. | | |

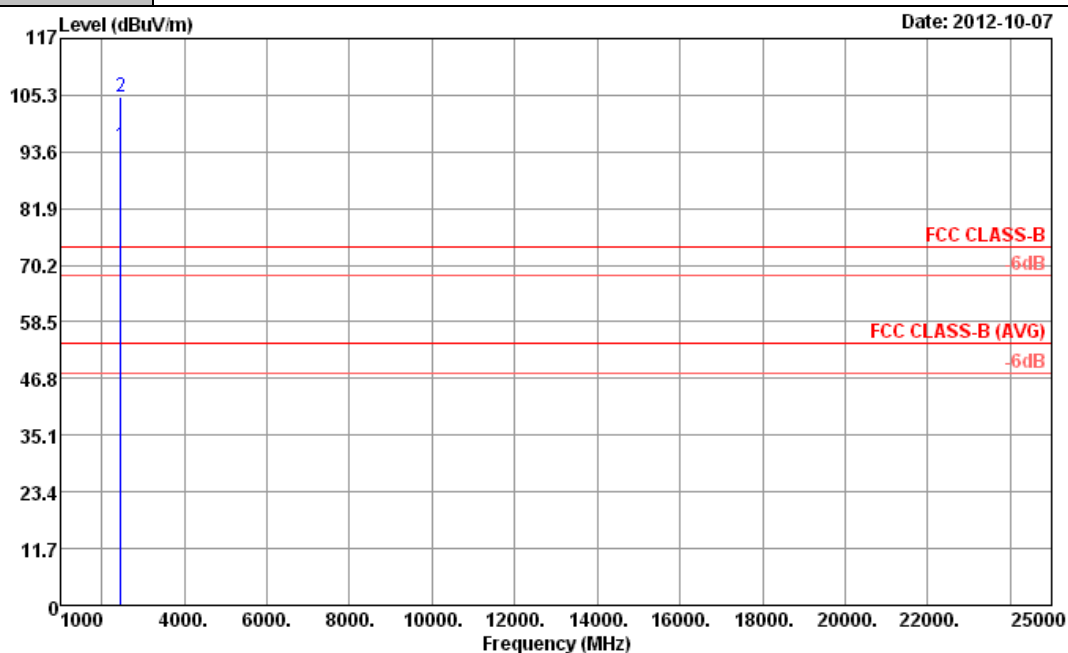


Site : 03CH05-HY
 Condition : FCC CLASS-B 3m SHF_EHF_HORN_091208 VERTICAL

ANTENNA POLARITY : VERTICAL

| Frequency
(MHz) | Level
(dBμV/m) | Over
Limit
(dB) | Limit
Line
(dBμV/m) | Read
Level
(dBμV) | Antenna
Factor
(dB) | Cable
Loss
(dB) | Preamp
Factor
(dB) | Ant
Pos
(cm) | Table
Pos
(deg) | Remark |
|---|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2437 | 105.68 | - | - | 104.67 | 32.24 | 4.61 | 35.84 | 100 | 62 | Peak |
| 2437 | 95.32 | - | - | 94.31 | 32.24 | 4.61 | 35.84 | 100 | 62 | Average |
| Other harmonics are lower than background noise | | | | | | | | | | |

| | | | |
|------------------------|---|----------------------------|---------|
| Test Mode : | 802.11n HT20 | Temperature : | 20~22°C |
| Test Channel : | 11 | Relative Humidity : | 40~42% |
| Test Engineer : | David Ke | | |
| Remark : | 1. 2462 MHz is fundamental signal which can be ignored.
2. Test result of emissions which are 20 dB lower than the limit is not reported per 15.31.
3. The harmonic (2 nd , 3 rd , 4 th , ...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise. | | |

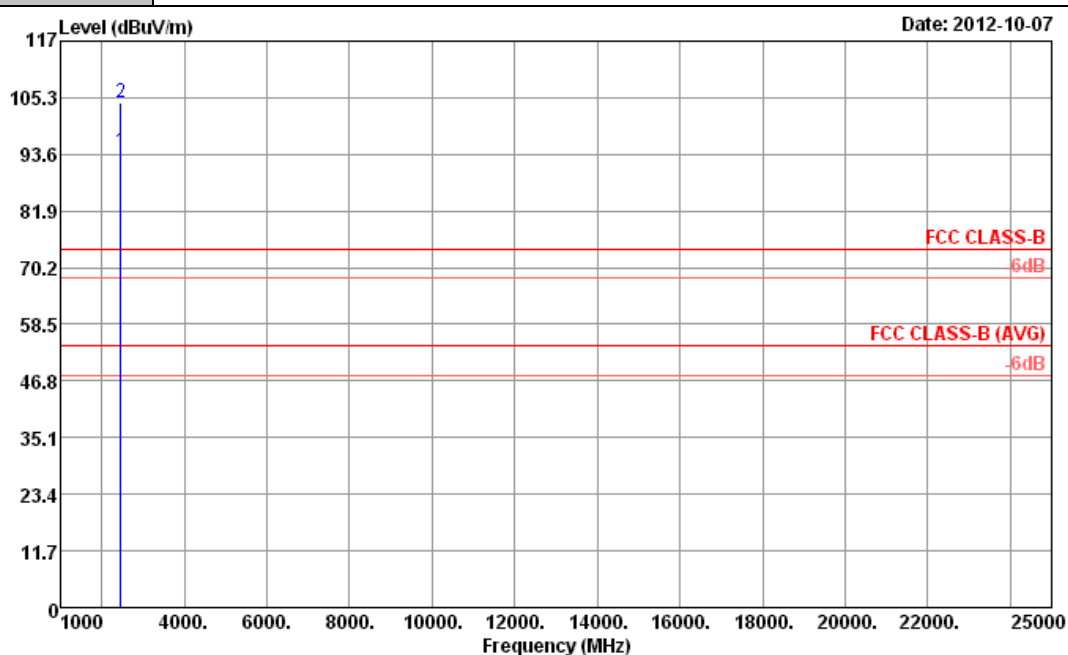


Site : 03CH05-HY
 Condition : FCC CLASS-B 3m SHF_EHF_HORN_091208 HORIZONTAL

ANTENNA POLARITY : HORIZONTAL

| Frequency
(MHz) | Level
(dBμV/m) | Over
Limit
(dB) | Limit
Line
(dBμV/m) | Read
Level
(dBμV) | Antenna
Factor
(dB) | Cable
Loss
(dB) | Preamp
Factor
(dB) | Ant
Pos
(cm) | Table
Pos
(deg) | Remark |
|---|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2462 | 104.83 | - | - | 103.78 | 32.26 | 4.62 | 35.83 | 118 | 70 | Peak |
| 2462 | 94.92 | - | - | 93.87 | 32.26 | 4.62 | 35.83 | 118 | 70 | Average |
| Other harmonics are lower than background noise | | | | | | | | | | |

| | | | |
|------------------------|---|----------------------------|---------|
| Test Mode : | 802.11n HT20 | Temperature : | 20~22°C |
| Test Channel : | 11 | Relative Humidity : | 40~42% |
| Test Engineer : | David Ke | | |
| Remark : | 1. 2460 MHz is fundamental signal which can be ignored.
2. Test result of emissions which are 20 dB lower than the limit is not reported per 15.31.
3. The harmonic (2 nd , 3 rd , 4 th , ...etc.) and other spurious are not reported, because those levels are lower than average limit line and background noise. | | |



Site : Q3CH05-HY
 Condition : FCC CLASS-B 3m SHF_EHF_HORN_091208 VERTICAL

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 |
|---|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2460 | 104.22 | - | - | 103.17 | 32.26 | 4.62 | 35.83 | 100 | 105 | Peak |
| 2460 | 94.26 | - | - | 93.21 | 32.26 | 4.62 | 35.83 | 100 | 105 | Average |
| Other harmonics are lower than background noise | | | | | | | | | | |

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.

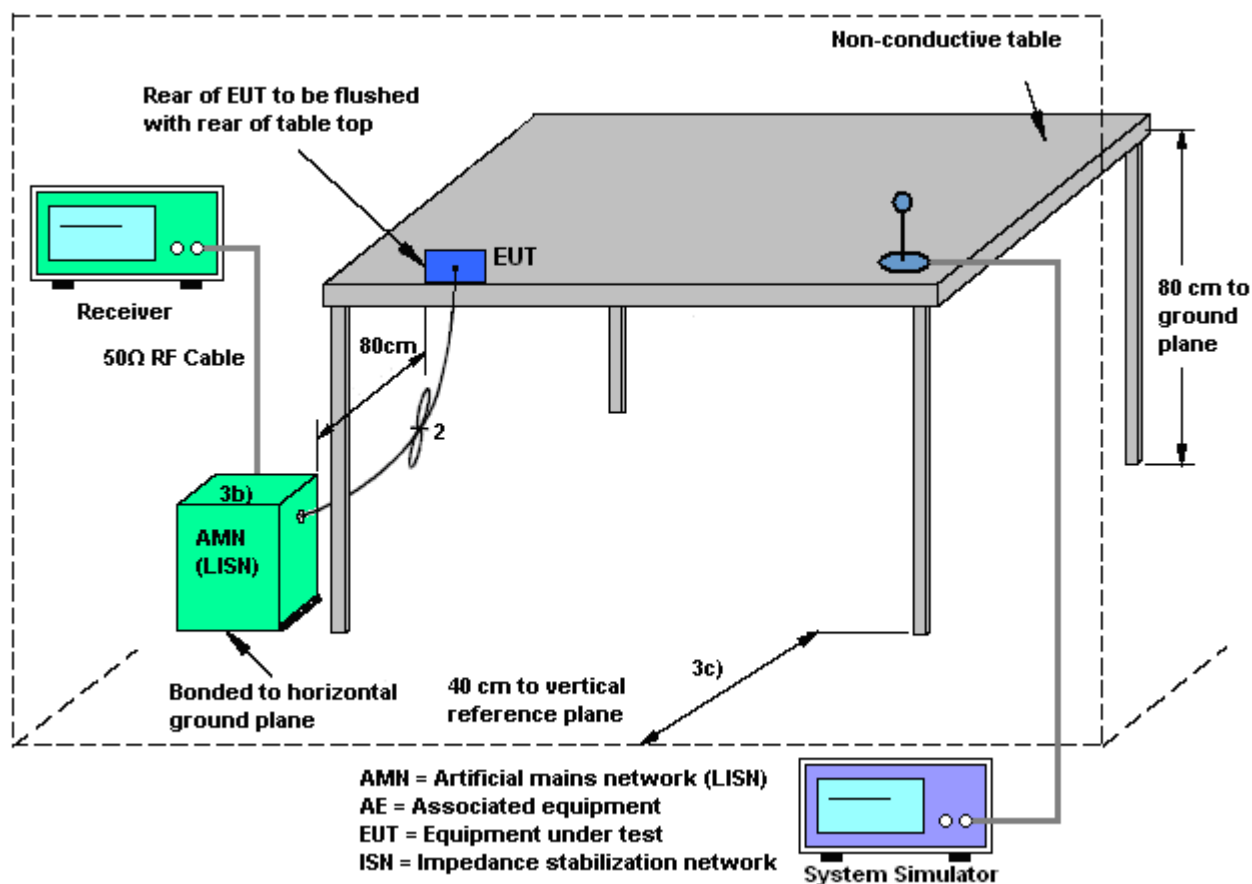
3.6.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.6.3 Test Procedures

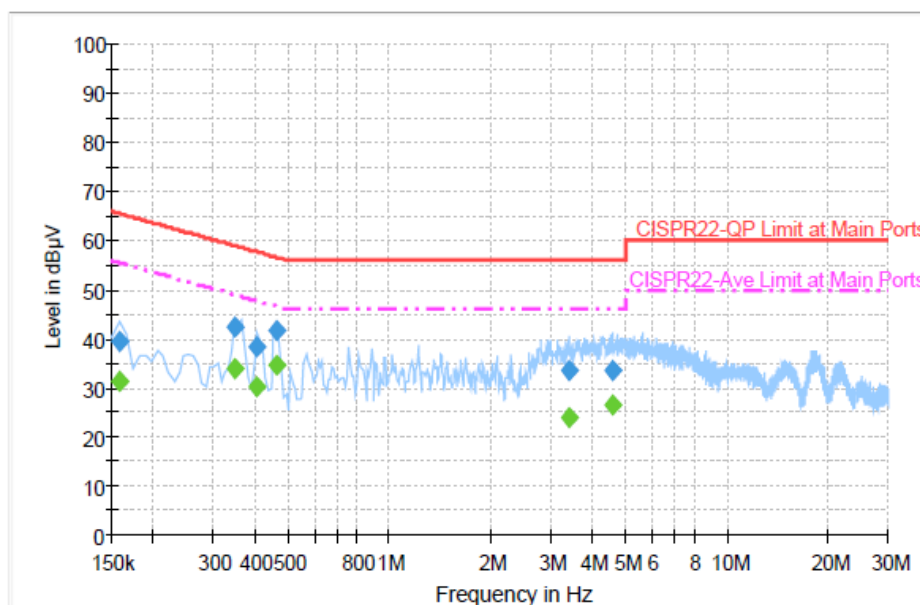
1. The testing follows the guidelines in ANSI C63.4-2003 and ANSI C63.10-2009.
2. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
3. Connect EUT to the power mains through a line impedance 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 : | 20~22°C |
| Test Engineer : | Slash Huang | Relative Humidity : | 45~47% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line |
| Function Type : | GSM850 Idle + Bluetooth Link + WLAN Link + MPEG4 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1 | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |



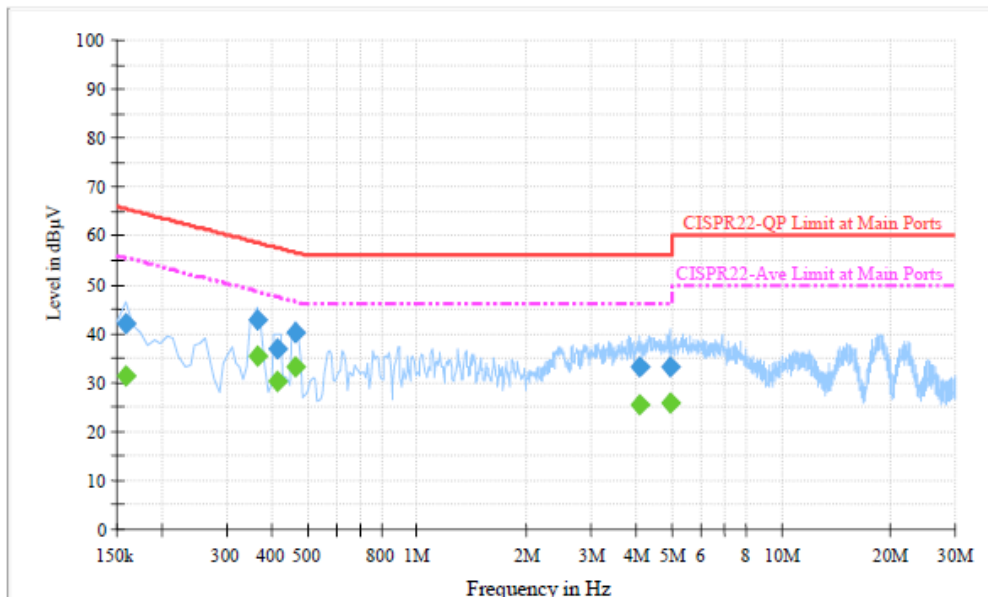
Final Result : Quasi-Peak

| Frequency (MHz) | Quasi-Peak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|-------------------|--------|------|------------|-------------|--------------|
| 0.158000 | 39.5 | Off | L1 | 19.3 | 26.1 | 65.6 |
| 0.350000 | 42.5 | Off | L1 | 19.4 | 16.5 | 59.0 |
| 0.406000 | 38.2 | Off | L1 | 19.4 | 19.5 | 57.7 |
| 0.462000 | 41.7 | Off | L1 | 19.3 | 15.0 | 56.7 |
| 3.414000 | 33.4 | Off | L1 | 19.6 | 22.6 | 56.0 |
| 4.574000 | 33.7 | Off | L1 | 19.6 | 22.3 | 56.0 |

Final Result : Average

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.158000 | 31.5 | Off | L1 | 19.3 | 24.1 | 55.6 |
| 0.350000 | 34.1 | Off | L1 | 19.4 | 14.9 | 49.0 |
| 0.406000 | 30.2 | Off | L1 | 19.4 | 17.5 | 47.7 |
| 0.462000 | 34.6 | Off | L1 | 19.3 | 12.1 | 46.7 |
| 3.414000 | 24.2 | Off | L1 | 19.6 | 21.8 | 46.0 |
| 4.574000 | 26.6 | Off | L1 | 19.6 | 19.4 | 46.0 |

| | | | |
|------------------------|---|----------------------------|---------|
| Test Mode : | Mode 1 | Temperature : | 20~22°C |
| Test Engineer : | Slash Huang | Relative Humidity : | 45~47% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Function Type : | GSM850 Idle + Bluetooth Link + WLAN Link + MPEG4 + Earphone + Battery + USB Cable (Charging from Adapter) + SIM 1 | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |


Final Result : Quasi-Peak

| Frequency (MHz) | Quasi-Peak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|-------------------|--------|------|------------|-------------|--------------|
| 0.158000 | 41.9 | Off | N | 19.3 | 23.7 | 65.6 |
| 0.366000 | 42.9 | Off | N | 19.4 | 15.7 | 58.6 |
| 0.414000 | 36.7 | Off | N | 19.4 | 20.9 | 57.6 |
| 0.462000 | 40.2 | Off | N | 19.3 | 16.5 | 56.7 |
| 4.086000 | 33.2 | Off | N | 19.6 | 22.8 | 56.0 |
| 4.934000 | 33.1 | Off | N | 19.7 | 22.9 | 56.0 |

Final Result : Average

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.158000 | 31.4 | Off | N | 19.3 | 24.2 | 55.6 |
| 0.366000 | 35.5 | Off | N | 19.4 | 13.1 | 48.6 |
| 0.414000 | 30.3 | Off | N | 19.4 | 17.3 | 47.6 |
| 0.462000 | 33.2 | Off | N | 19.3 | 13.5 | 46.7 |
| 4.086000 | 25.4 | Off | N | 19.6 | 20.6 | 46.0 |
| 4.934000 | 25.8 | Off | N | 19.7 | 20.2 | 46.0 |



3.7 Antenna Requirements

3.7.1 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.

3.7.2 Antenna Connected Construction

Non-standard connector used.

3.7.3 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 | Test Date | Due Date | Remark |
|----------------------|--------------|--|------------------------|-----------------------|------------------|-------------------------------|---------------|-----------------------|
| Spectrum Analyzer | R&S | FSP40 | 100055 | 9kHz~40GHz | Jun. 06, 2012 | Aug.31, 2012 ~ Oct. 19, 2012 | Jun. 05, 2013 | Conducted (TH02-HY) |
| Power Meter | Anritsu | ML2495A | 0932001 | 300MHz~40GHz | Sep. 18, 2011 | Aug.31, 2012 ~ Sep. 08, 2012 | Sep. 17, 2012 | Conducted (TH02-HY) |
| Power Meter | Anritsu | ML2495A | 1036004 | 300MHz~40GHz | Sep. 08, 2012 | Sep. 08, 2012 ~ Oct. 19, 2012 | Sep. 07, 2013 | Conducted (TH02-HY) |
| Power Sensor | Anritsu | MA2411B | 0846202 | 300MHz~40GHz | Sep. 18, 2011 | Aug.31, 2012 ~ Sep. 08, 2012 | Sep. 17, 2012 | Conducted (TH02-HY) |
| Power Sensor | Anritsu | MA2411B | 1027253 | 300MHz~40GHz | Sep. 08, 2012 | Sep. 08, 2012 ~ Oct. 19, 2012 | Sep. 07, 2013 | Conducted (TH02-HY) |
| Thermometer | Wisewind | 410 | N/A | N/A | Nov. 22, 2011 | Sep. 08, 2012 ~ Oct. 19, 2012 | Nov. 21, 2012 | Conducted (TH02-HY) |
| RF cable | HONOVA | MF86 | N/A | N/A | Nov. 24, 2011 | Sep. 08, 2012 ~ Oct. 19, 2012 | Nov. 23, 2012 | Conducted (TH02-HY) |
| Bilog Antenna | SCHAFFNER | CBL6111C | 2725 | 30MHz ~ 2GHz | Oct. 22, 2011 | Oct. 07, 2012 ~ Oct. 08, 2012 | Oct. 21, 2012 | Radiation (03CH05-HY) |
| Horn Antenna | ESCO | 3117 | 66584 | 1GHz~18GHz | Aug. 10, 2012 | Oct. 07, 2012 ~ Oct. 08, 2012 | Aug. 09, 2013 | Radiation (03CH05-HY) |
| Pre Amplifier | Agilent | 8449B | 3008A02665 | 1GHz~26.5GHz | Aug. 28, 2012 | Oct. 07, 2012 ~ Oct. 08, 2012 | Aug. 27, 2013 | Radiation (03CH05-HY) |
| SHF-EHF Horn Antenna | SCHWARZBEC K | BBHA 9170 | BBHA9170251 | 15GHz ~ 40GHz | Sep. 28, 2012 | Oct. 07, 2012 ~ Oct. 08, 2012 | Sep. 27, 2013 | Radiation (03CH05-HY) |
| Pre Amplifier | COM-POWER | PA-103 | 161075 | 10-1000MHz.32 dB.GAIN | Feb. 27, 2012 | Oct. 07, 2012 ~ Oct. 08, 2012 | Feb. 26, 2013 | Radiation (03CH05-HY) |
| Loop Antenna | R&S | HFH2-Z2 | 860004/001 | 9KHz ~ 30MHz | Jul. 03, 2012 | Oct. 07, 2012 ~ Oct. 08, 2012 | Jul. 02, 2014 | Radiation (03CH05-HY) |
| Filter | WAINWRIGHT | WLKS1500-8SS | SN2 | 1.5G LPF | Dec.29, 2011 | Oct. 07, 2012 ~ Oct. 08, 2012 | Dec.28, 2012 | Radiation (03CH05-HY) |
| Filter | WAINWRIGHT | WRCGV240
0/2483-2390
/2493-35/10
SS | N/A | 2.4G Notch Filter | Dec.29, 2011 | Oct. 07, 2012 ~ Oct. 08, 2012 | Dec.28, 2012 | Radiation (03CH05-HY) |
| Filter | Microwave | H3G018G1 | SN279268 | 3G HPF | Dec.29, 2011 | Oct. 07, 2012 ~ Oct. 08, 2012 | Dec.28, 2012 | Radiation (03CH05-HY) |
| Filter | Microwave | H01G13G1 | SN360979 | 1G HPF | Dec.29, 2011 | Oct. 07, 2012 ~ Oct. 08, 2012 | Dec.28, 2012 | Radiation (03CH05-HY) |
| Thermometer | Wisewind | 410 | N/A | N/A | Dec.28, 2011 | Oct. 07, 2012 ~ Oct. 08, 2012 | Dec.27, 2012 | Radiation (03CH05-HY) |
| Test Software | Audix | E3 | Version
6.2009-8-24 | N/A | N/A | Oct. 07, 2012 ~ Oct. 08, 2012 | N/A | Radiation (03CH05-HY) |



| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-------------------|--------------|------------|----------------|-----------------|------------------|-------------------------------|---------------|-----------------------|
| Turn Table | HD | DS 420 | 420/650/00 | 0 ~ 360 degree | N/A | Oct. 07, 2012 ~ Oct. 08, 2012 | N/A | Radiation (03CH05-HY) |
| Antenna Mast | HD GmbH | MA 240 | N/A | N/A | N/A | Oct. 07, 2012 ~ Oct. 08, 2012 | N/A | Radiation (03CH05-HY) |
| RF Cable | Huber+Suhner | RG 142 | NA | 30M~1G | Nov.28 , 2011 | Oct. 07, 2012 ~ Oct. 08, 2012 | Nov.27 , 2012 | Radiation (03CH05-HY) |
| RF Cable | Huber+Suhner | SF104 | NA | 1G~26.5G | Nov.28 , 2011 | Oct. 07, 2012 ~ Oct. 08, 2012 | Nov.27 , 2012 | Radiation (03CH05-HY) |
| EMI Test Receiver | R&S | ESCS 30 | 100356 | 9KHz ~ 2.75GHz | Oct. 27, 2011 | Oct. 03, 2012 | Oct. 26, 2012 | Conduction (CO05-HY) |
| Two-LISN | R&S | ENV216 | 11-100081 | 9KHz ~ 30MHz | Dec. 09, 2011 | Oct. 03, 2012 | Dec. 08, 2012 | Conduction (CO05-HY) |
| Two-LISN | R&S | ENV216 | 11-100080 | 9KHz ~ 30MHz | Dec. 06, 2011 | Oct. 03, 2012 | Dec. 05, 2012 | Conduction (CO05-HY) |
| AC Power Source | APC | APC-1000 W | N/A | N/A | N/A | Oct. 03, 2012 | N/A | Conduction (CO05-HY) |
| System Simulator | R&S | CMU200 | 117995 | N/A | Jul. 28, 2011 | Oct. 03, 2012 | Jul. 27, 2013 | Conduction (CO05-HY) |
| Test Software | N/A | EMC32 | Version 8.40.0 | N/A | N/A | Oct. 03, 2012 | N/A | Conduction (CO05-HY) |

Note: Test equipment calibration is traceable to the procedure of ISO17025.

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 KHz ~ 30 MHz)

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 2.26 |
|---|------|

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

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 2.54 |
|---|------|

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

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 4.72 |
|---|------|