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FCC RADIO TEST REPORT

Applicant's company	Proxim Wireless Corporation
Applicant Address	1561 Buckeye Drive, Milpitas CA 95035 USA
FCC ID	HZB-PROXMB92
Manufacturer's company	Proxim Wireless Corporation
Manufacturer Address	1561 Buckeye Drive, Milpitas CA 95035 USA

Product Name	miniPCI High Power MIMO IEEE 802.11 a/b/g/n RF Module
Brand Name	PROXIM
Model Name	PROXMB92
Test Rule Part(s)	47 CFR FCC Part 15 Subpart C § 15.247
Test Freq. Range	2400 ~ 2483.5MHz / 5725 ~ 5850MHz
Received Date	May 10, 2010
Final Test Date	Jun. 22, 2010
Submission Type	Class II Change

Statement

Test result included is only for 802.11b/g part and 802.11a (5725 ~ 5850MHz) of the product.

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full.

The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in **ANSI C63.4-2003** and **47 CFR FCC Part 15 Subpart C**.

The test equipment used to perform the test is calibrated and traceable to NML/ROC.



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History of This Test Report

Original Issue Date: Jul. 23, 2010

Report No.: FR051015-01AB

- ☒ No additional attachment.
- ☐ Additional attachment were issued as following record:

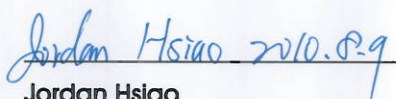
Attachment No.	Issue Date	Description



1. CERTIFICATE OF COMPLIANCE

Product Name : miniPCI High Power MIMO IEEE 802.11 a/b/g/n RF Module
Brand Name : PROXIM
Model Name : PROXMB92
Applicant : Proxim Wireless Corporation
Test Rule Part(s) : 47 CFR FCC Part 15 Subpart C § 15.247

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on May 10, 2010 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.



Jordan Hsiao

SPORTON INTERNATIONAL INC.

2. SUMMARY OF THE TEST RESULT

Applied Standard: 47 CFR FCC Part 15 Subpart C				
Part	Rule Section	Description of Test	Result	Under Limit
-	15.207	AC Power Line Conducted Emissions	-	-
4.1	15.247(b)(3)	Maximum Conducted Output Power	Complies	2.59 dB
4.2	15.247(e)	Power Spectral Density	Complies	1.59 dB
4.3	15.247(a)(2)	6dB Spectrum Bandwidth	Complies	-
4.4	15.247(d)	Radiated Emissions	Complies	0.02 dB
4.5	15.247(d)	Band Edge Emissions	Complies	1.05 dB
4.6	15.203	Antenna Requirements	Complies	-

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	±2.3dB	Confidence levels of 95%
Maximum Conducted Output Power	±0.8dB	Confidence levels of 95%
Power Spectral Density	±0.5dB	Confidence levels of 95%
6dB Spectrum Bandwidth	±8.5×10 ⁻⁸	Confidence levels of 95%
Radiated Emissions (9kHz~30MHz)	±0.8dB	Confidence levels of 95%
Radiated Emissions (30MHz~1000MHz)	±1.9dB	Confidence levels of 95%
Radiated / Band Edge Emissions (1GHz~18GHz)	±1.9dB	Confidence levels of 95%
Radiated Emissions (18GHz~40GHz)	±1.9dB	Confidence levels of 95%
Temperature	±0.7°C	Confidence levels of 95%
Humidity	±3.2%	Confidence levels of 95%
DC / AC Power Source	±1.4%	Confidence levels of 95%

3. GENERAL INFORMATION

3.1. Product Details

Items	Description
Product Type	WLAN (2TX, 2RX)
Radio Type	Intentional Transceiver
Power Type	From POE
Modulation	OFDM for IEEE 802.11a/g
Data Modulation	OFDM (BPSK / QPSK / 16QAM / 64QAM)
Data Rate (Mbps)	OFDM (6/9/12/18/24/36/48/54)
Frequency Range	2400 ~ 2483.5MHz / 5725 ~ 5850MHz
Channel Number	11g: 11 ; 11a: 5
Channel Band Width (99%)	For Ant. 1: 802.11a 5MHz: 4.36 MHz ; 802.11a 10MHz: 8.44 MHz For Ant. 2: 802.11a 5MHz: 4.36 MHz ; 802.11a 10MHz: 8.44 MHz For Ant. 3: 802.11a 5MHz: 4.36 MHz ; 802.11a 10MHz: 8.44 MHz For Ant. 4: 802.11g 5MHz: 4.48 MHz ; 802.11g 10MHz: 8.48 MHz ; 802.11a 5MHz: 4.36 MHz ; 802.11a 10MHz: 8.44 MHz For Ant. 5: 802.11g 5MHz: 4.40 MHz ; 802.11g 10MHz: 8.48 MHz For Ant. 6: 802.11g 5MHz: 4.48 MHz ; 802.11g 10MHz: 8.48 MHz For Ant. 7: 802.11g 5MHz: 4.48 MHz ; 802.11g 10MHz: 8.48 MHz

Items	Description
Conducted Output Power	For Ant. 1: 802.11a 5MHz: 20.50 dBm ; 802.11a 10MHz: 20.57 dBm For Ant. 2: 802.11a 5MHz: 20.50 dBm ; 802.11a 10MHz: 20.57 dBm For Ant. 3: 802.11a 5MHz: 20.50 dBm ; 802.11a 10MHz: 20.57 dBm For Ant. 4: 802.11g 5MHz: 24.27 dBm ; 802.11g 10MHz: 24.41 dBm ; 802.11a 5MHz: 20.50 dBm ; 802.11a 10MHz: 20.57 dBm For Ant. 5: 802.11g 5MHz: 24.27 dBm ; 802.11g 10MHz: 24.41 dBm ; For Ant. 6: 802.11g 5MHz: 24.27 dBm ; 802.11g 10MHz: 24.41 dBm ; For Ant. 7: 802.11g 5MHz: 24.27 dBm ; 802.11g 10MHz: 24.41 dBm ;
Carrier Frequencies	Please refer to section 3.4
Antenna	Please refer to section 3.3

3.2. Accessories

N/A

3.3. Table for Filed Antenna

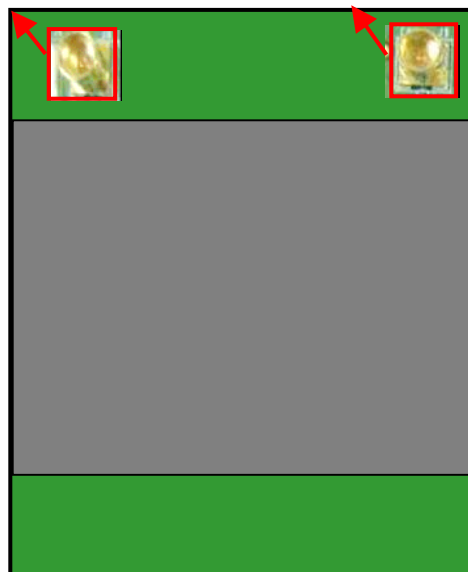
Ant.	Brand	Model Name	Antenna Type	Connector	Attenuator (dBi)	Antenna gain		Cable Loss		Test Antenna gain	
						2.4GHz Band	5GHz Band	2.4GHz Band	5GHz Band	2.4GHz Band	5GHz Band
1	MARS	MA-WA55-30	Panel Antenna	N-Type	20	-	30	-	2	-	8
2	MARS	MA-WB55-20	Sector Antenna	N-Type	10	-	20	-	2	-	8
3	CSC Networks	65812 ODN	Omni Antenna	N-Type	-	-	12	-	2	-	10
4	SmartAnt	USI05-220170 -V1	Dipole Antenna	Reversed-SMA	-	2.5	5	0.5	0.5	2	4.5
5	MARS	MA-WA25-20	Panel Antenna	N-Type	10	20	-	1	-	9	-
6	CSC Networks	62420 SN-120	Sector Antenna	N Female	10	20	-	1	-	9	-
7	CSC Networks	62416 ODN	Omni Antenna	N-Type	10	17	-	1	-	6	-

Note:

The EUT has two antenna connectors that can be used for transmitting and receiving simultaneously as 2Tx and 2Rx. Also there are seven types of antenna provided to this EUT and all of them can be used as transmitting and receiving antenna.

Connector 1(J8): TX/RX

Connector 2(J9): TX/RX



3.4. Table for Carrier Frequencies

For 2.4GHz Band

Frequency Allocation for 802.11g

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
2400~2483.5MHz	1	2412 MHz	7	2442 MHz
	2	2417 MHz	8	2447 MHz
	3	2422 MHz	9	2452 MHz
	4	2427 MHz	10	2457 MHz
	5	2432 MHz	11	2462 MHz
	6	2437 MHz		

For 5GHz Band

Frequency Allocation for 802.11a

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5725~5850 MHz (Band 4)	149	5745 MHz	161	5805 MHz
	153	5765 MHz	165	5825 MHz
	157	5785 MHz		

3.5. Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

For 2.4GHz Band:

For Ant. 4 / Ant. 5 / Ant. 6 / Ant. 7:

Test Items	Mode	Data Rate	Channel	Antenna
Max. Peak Conducted Output Power	11g/BPSK	6 Mbps	1/6/11	4, 5, 6, 7
Power Spectral Density 6dB Spectrum Bandwidth	11g/BPSK	6 Mbps	1/6/11	4, 5, 6, 7
Radiated Emissions Above 1GHz	11g/BPSK	6 Mbps	1/6/11	4, 5, 6, 7
Band Edge Emissions	11g/BPSK	6 Mbps	1/6/11	4, 5, 6, 7

For 5GHz Band:

For Ant. 1 / Ant. 2 / Ant. 3 / Ant. 4:

Test Items	Mode	Data Rate	Channel	Antenna
Max. Peak Conducted Output Power	11a/BPSK	6 Mbps	149/157/165	1, 2, 3, 4
Power Spectral Density 6dB Spectrum Bandwidth	11a/BPSK	6 Mbps	149/157/165	1, 2, 3, 4
Radiated Emissions Above 1GHz	11a/BPSK	6 Mbps	149/157/165	1, 2, 3, 4

Note 1: In theory, the test mode of two antennas transmitting simultaneously is worse case than single antenna.

Note 2: IEEE 802.11g and IEEE 802.11a Band 4 (5745~5825MHz) support 5MHz/10MHz bandwidth.

Note 3: Ant.1 and Ant 2 would be only used in Band 4 of 5GHz band due to outdoor antenna.

The following test modes were performed for all tests:

- Test Mode 1. EUT + Antenna 1 (5GHz Antenna) / with 5MHz bandwidth
- Test Mode 2. EUT + Antenna 1 (5GHz Antenna) / with 10MHz bandwidth
- Test Mode 3. EUT + Antenna 2 (5GHz Antenna) / with 5MHz bandwidth
- Test Mode 4. EUT + Antenna 2 (5GHz Antenna) / with 10MHz bandwidth
- Test Mode 5. EUT + Antenna 3 (5GHz Antenna) / with 5MHz bandwidth
- Test Mode 6. EUT + Antenna 3 (5GHz Antenna) / with 10MHz bandwidth
- Test Mode 7. EUT + Antenna 4 (2.4GHz + 5GHz Antenna) / with 5MHz bandwidth
- Test Mode 8. EUT + Antenna 4 (2.4GHz + 5GHz Antenna) / with 10MHz bandwidth
- Test Mode 9. EUT + Antenna 5 (2.4GHz Antenna) / with 5MHz bandwidth
- Test Mode 10. EUT + Antenna 5 (2.4GHz Antenna) / with 10MHz bandwidth
- Test Mode 11. EUT + Antenna 6 (2.4GHz Antenna) / with 5MHz bandwidth
- Test Mode 12. EUT + Antenna 6 (2.4GHz Antenna) / with 10MHz bandwidth
- Test Mode 13. EUT + Antenna 7 (2.4GHz Antenna) / with 5MHz bandwidth
- Test Mode 14. EUT + Antenna 7 (2.4GHz Antenna) / with 10MHz bandwidth

For Radiated Emissions Test Above 1GHz:

All the test results were tested and recorded in the report.

3.6. Table for Testing Locations

Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.	VCCI Reg. No
03CH03-HY	SAC	Hwa Ya	879474	IC 4086	-
TH01-HY	OVEN Room	Hwa Ya	-	-	-

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC); Fully Anechoic Chamber (FAC).

Please refer section 6 for Test Site Address.

3.7. Table for Class II Change

This product is an extension of original one reported under Sporton project number: 051015

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Add the test result of bandwidth for 5MHz and 10MHz for IEEE 802.11b/g and IEEE 802.11a Band 1, Band 4 (5150~5250MHz, 5745~5825MHz).	Max. Peak Conducted Output Power Power Spectral Density 6dB Spectrum Bandwidth Radiated Emission Above 1GHz Band Edge Emission

3.8. Table for Supporting Units

Support Unit	Brand	Model	FCC ID
POE	PowerDsine	PD-7001G	DoC
Notebook	DELL	M1330	E2KWM3945ABG
Notebook	DELL	D400	E2K24GBRL
Notebook	DELL	1200	E2K4965AGNM

3.9. Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. 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.

For Antenna 1 / Mode 1:

Power Parameters of IEEE 802.11a 5MHz

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825MHz
IEEE 802.11a Ant. 1	17.5	17.5	17.5

For Antenna 1 / Mode 2:

Power Parameters of IEEE 802.11a 10MHz

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825MHz
IEEE 802.11a Ant. 1	17.5	17.5	17.5

For Antenna 2 / Mode 3:

Power Parameters of IEEE 802.11a 5MHz

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825MHz
IEEE 802.11a Ant. 2	17.5	17.5	17.5

For Antenna 2 / Mode 4:

Power Parameters of IEEE 802.11a 10MHz

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825MHz
IEEE 802.11a Ant. 2	17.5	17.5	17.5

For Antenna 3 / Mode 5:

Power Parameters of IEEE 802.11a 5MHz

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825MHz
IEEE 802.11a Ant. 3	17.5	17.5	17.5

For Antenna 3 / Mode 6:

Power Parameters of IEEE 802.11a 10MHz

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825MHz
IEEE 802.11a Ant. 3	17.5	17.5	17.5

For Antenna 4 / Mode 7:

For 2.4GHz Band:

Power Parameters of IEEE 802.11g 5MHz

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11g Ant. 4	16	16	16

For 5GHz Band:

Power Parameters of IEEE 802.11a 5MHz

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825MHz
IEEE 802.11a Ant. 4	17.5	17.5	17.5

For Antenna 4 / Mode 8:

For 2.4GHz Band:

Power Parameters of IEEE 802.11g 10MHz

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11g Ant. 4	16	16	16

For 5GHz Band:

Power Parameters of IEEE 802.11a 10MHz

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825MHz
IEEE 802.11a Ant. 4	17.5	17.5	17.5

For Antenna 5 / Mode 9:

Power Parameters of IEEE 802.11g 5MHz

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11g Ant. 5	16	15.5	15.5

For Antenna 5 / Mode 10:

Power Parameters of IEEE 802.11g 10MHz

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11g Ant. 5	16	16	16

For Antenna 6 / Mode 11:

Power Parameters of IEEE 802.11g 5MHz

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11g Ant. 6	16	16	16

For Antenna 6 / Mode 12:

Power Parameters of IEEE 802.11g 10MHz

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11g Ant. 6	16	16	16

For Antenna 7 / Mode 13:

Power Parameters of IEEE 802.11g 5MHz

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11g Ant. 7	16	16	16

For Antenna 7 / Mode 14:

Power Parameters of IEEE 802.11g 10MHz

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11g Ant. 7	16	16	16

During the test, the following program under WIN XP was executed:

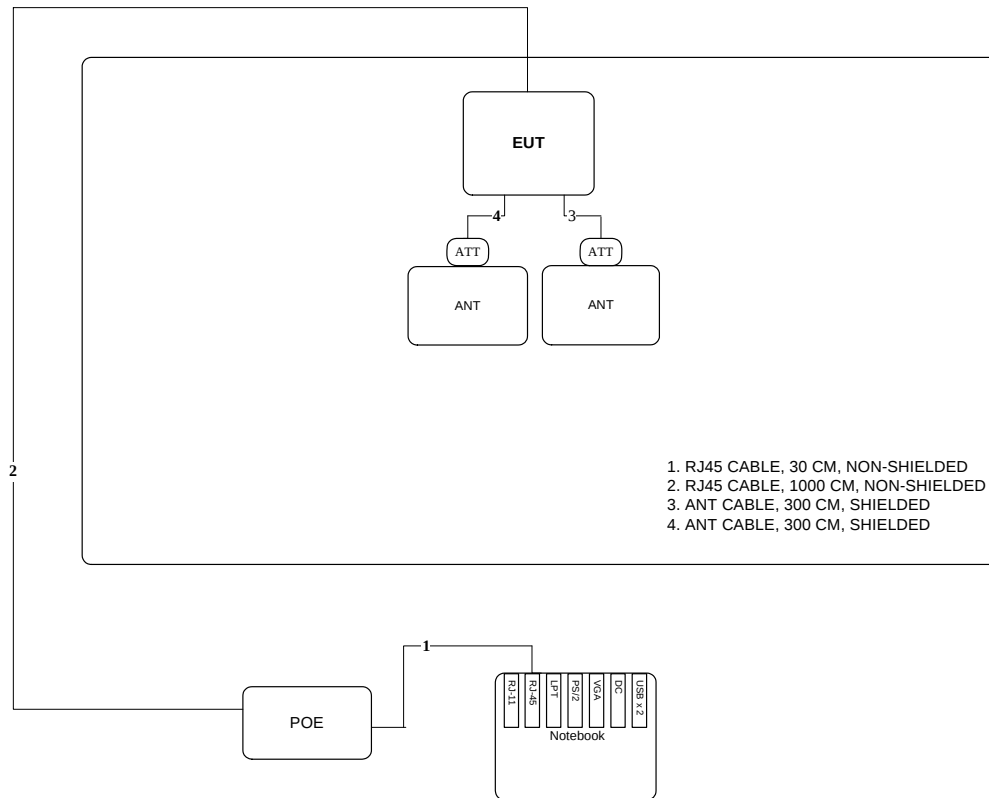
Executed "ART" to control the EUT continuously transmit RF signal.

3.10. Test Configurations

3.10.1. Radiation Emissions Test Configuration

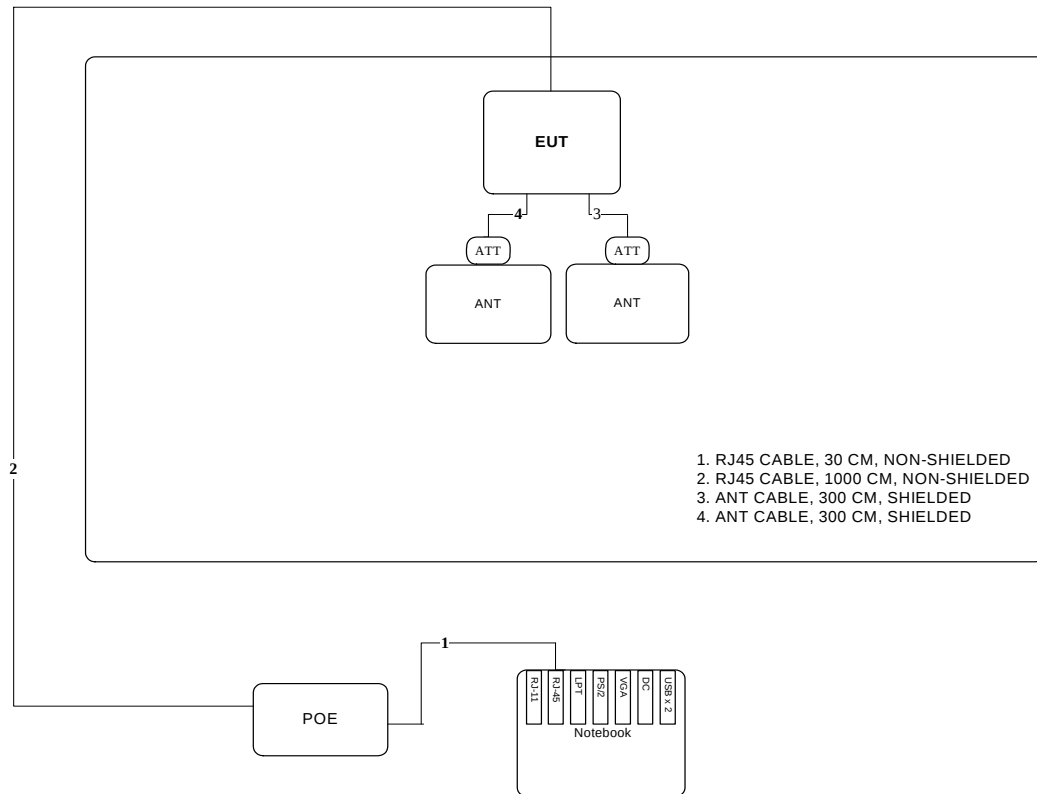
Test Configuration: above 1GHz

For Antenna 1 / 5GHz:



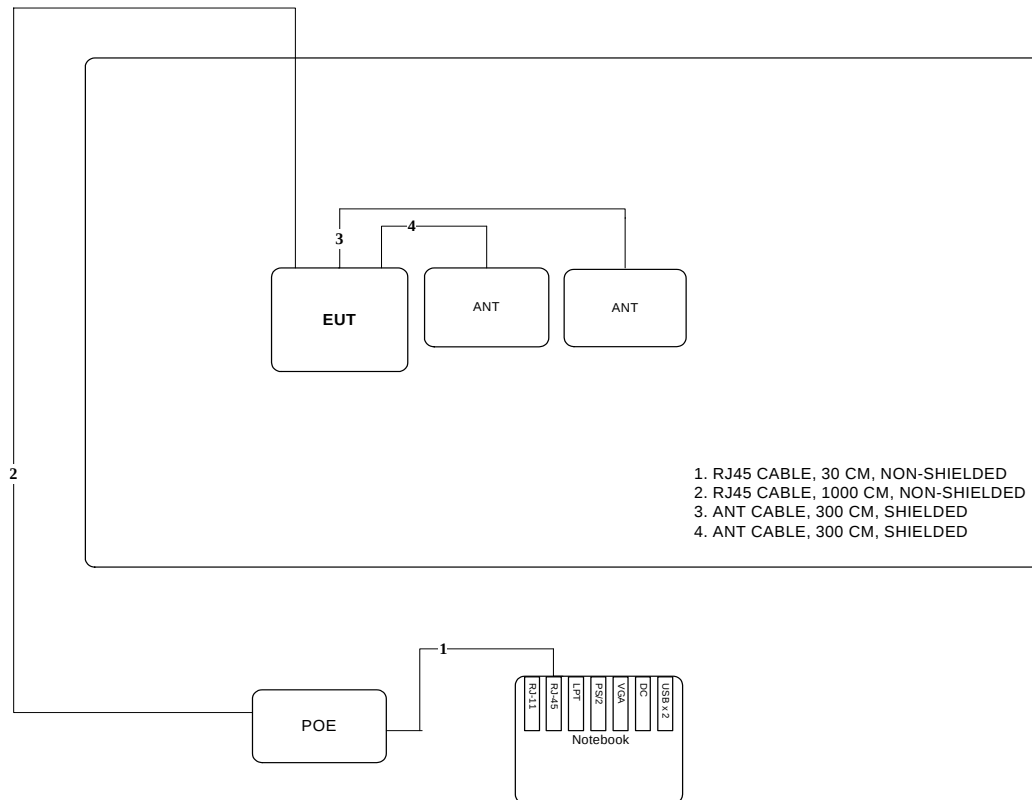
Test Configuration: above 1GHz

For Antenna 2 / 5GHz:



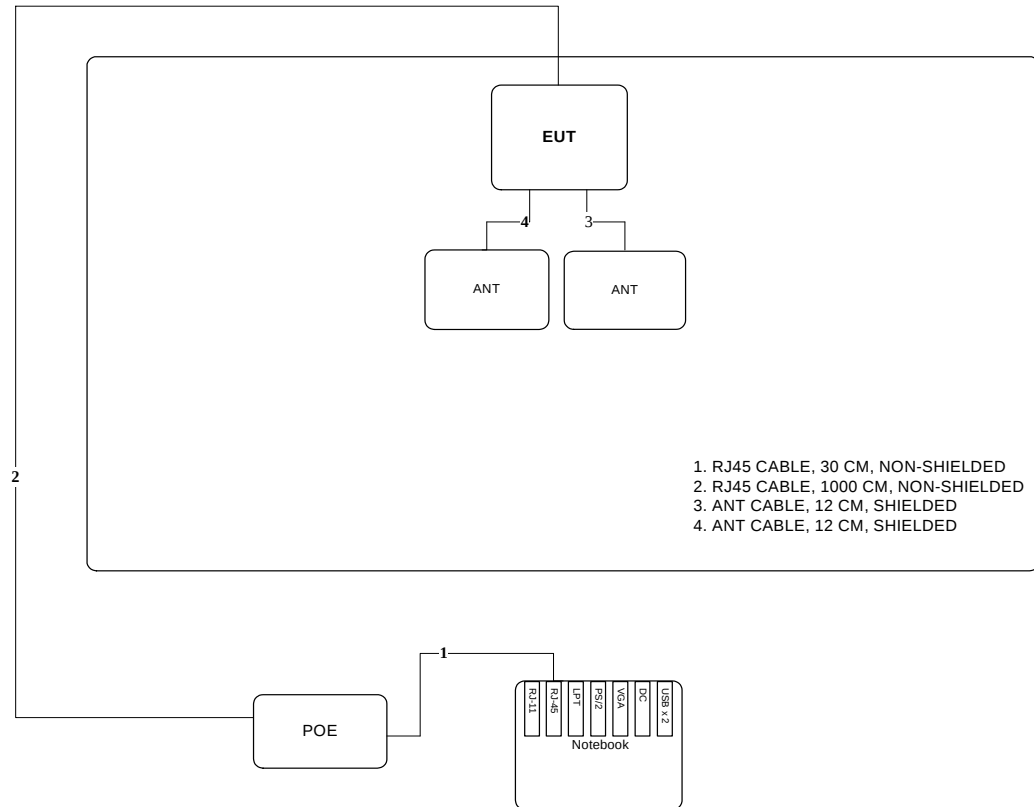
Test Configuration: above 1GHz

For Antenna 3 / 5GHz:



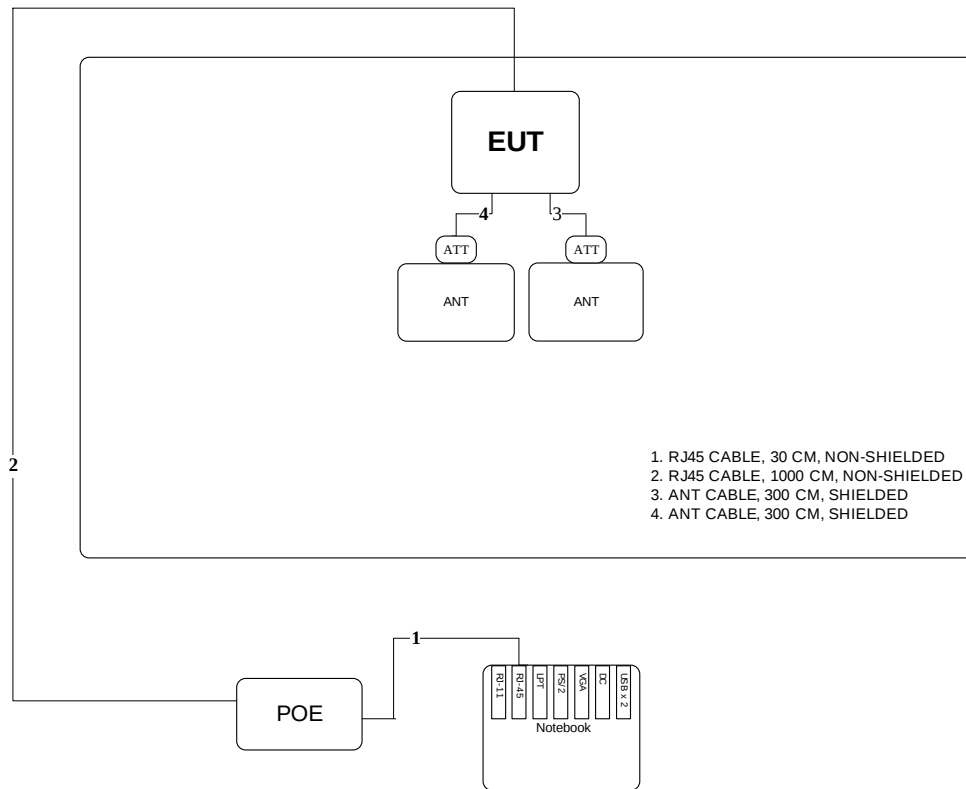


For Antenna 4 / 2.4GHz / 5GHz:



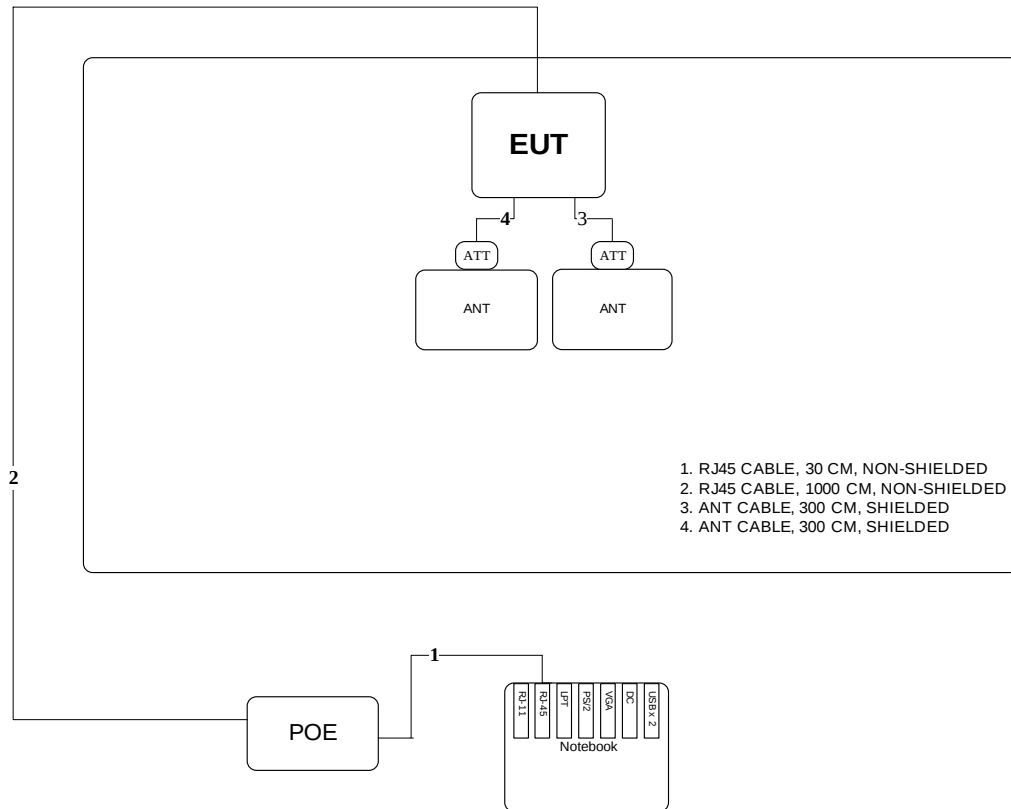
Test Configuration: above 1GHz

For Antenna 5 / 2.4GHz:



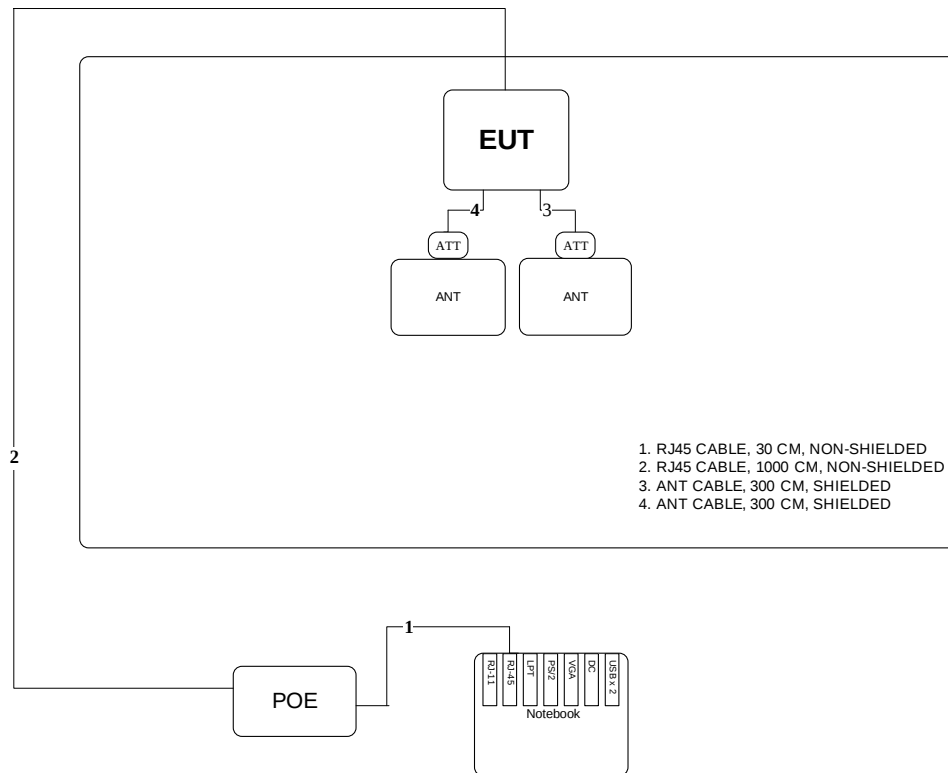
Test Configuration: above 1GHz

For Antenna 6 / 2.4GHz:



Test Configuration: above 1GHz

For Antenna 7 / 2.4GHz:



4. TEST RESULT

4.1. Maximum Conducted Output Power Measurement

4.1.1. Limit

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. The limited has to be reduced by the amount in dB that the gain of the antenna exceed 6dBi. 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. Systems operating in the 5725-5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted output power.

4.1.2. Measuring Instruments and Setting

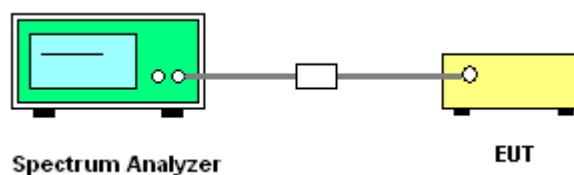
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RB	1MHz
VB	3MHz
Detector	RMS
Trace	Max Hold
Sweep Time	Auto

4.1.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. Test was performed in accordance with Measurement of Digital Transmission Systems Operating under Section 15.247 March 23, 2005.
3. When measuring maximum conducted output power with multiple antenna systems, add every result of the values by mathematic formula.

4.1.4. Test Setup Layout



4.1.5. Test Deviation

There is no deviation with the original standard.

4.1.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.1.7. Test Result of Maximum Conducted Output Power

For Antenna 1 / Mode 1:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a 5MHz / Antenna 1

Configuration IEEE 802.11a Ant. 1-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	16.56	28.00	Complies
157	5785 MHz	16.39	28.00	Complies
165	5825MHz	15.43	28.00	Complies

Configuration IEEE 802.11a Ant. 1-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	18.25	28.00	Complies
157	5785 MHz	17.95	28.00	Complies
165	5825MHz	18.07	28.00	Complies

Configuration IEEE 802.11a Ant. 1-1 + Ant. 1-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	20.50	28.00	Complies
157	5785 MHz	20.25	28.00	Complies
165	5825MHz	19.96	28.00	Complies

For Antenna 1 / Mode 2:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a 10MHz / Antenna 1

Configuration IEEE 802.11a Ant. 1-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	17.10	28.00	Complies
157	5785 MHz	16.20	28.00	Complies
165	5825MHz	16.28	28.00	Complies

Configuration IEEE 802.11a Ant. 1-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	17.98	28.00	Complies
157	5785 MHz	18.27	28.00	Complies
165	5825MHz	18.05	28.00	Complies

Configuration IEEE 802.11a Ant. 1-1 + Ant. 1-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	20.57	28.00	Complies
157	5785 MHz	20.37	28.00	Complies
165	5825MHz	20.26	28.00	Complies

For Antenna 2 / Mode 3:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a 5MHz / Antenna 2

Configuration IEEE 802.11a Ant. 2-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	16.56	28.00	Complies
157	5785 MHz	16.39	28.00	Complies
165	5825MHz	15.43	28.00	Complies

Configuration IEEE 802.11a Ant. 2-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	18.25	28.00	Complies
157	5785 MHz	17.95	28.00	Complies
165	5825MHz	18.07	28.00	Complies

Configuration IEEE 802.11a Ant. 2-1 + Ant. 2-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	20.50	28.00	Complies
157	5785 MHz	20.25	28.00	Complies
165	5825MHz	19.96	28.00	Complies

For Antenna 2 / Mode 4:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a 10MHz / Antenna 2

Configuration IEEE 802.11a Ant. 2-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	17.10	28.00	Complies
157	5785 MHz	16.20	28.00	Complies
165	5825MHz	16.28	28.00	Complies

Configuration IEEE 802.11a Ant. 2-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	17.98	28.00	Complies
157	5785 MHz	18.27	28.00	Complies
165	5825MHz	18.05	28.00	Complies

Configuration IEEE 802.11a Ant. 2-1 + Ant. 2-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	20.57	28.00	Complies
157	5785 MHz	20.37	28.00	Complies
165	5825MHz	20.26	28.00	Complies

For Antenna 3 / Mode 5:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a 5MHz / Antenna 3

Configuration IEEE 802.11a Ant. 3-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	16.56	26.00	Complies
157	5785 MHz	16.39	26.00	Complies
165	5825MHz	15.43	26.00	Complies

Configuration IEEE 802.11a Ant. 3-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	18.25	26.00	Complies
157	5785 MHz	17.95	26.00	Complies
165	5825MHz	18.07	26.00	Complies

Configuration IEEE 802.11a Ant. 3-1 + Ant. 3-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	20.50	26.00	Complies
157	5785 MHz	20.25	26.00	Complies
165	5825MHz	19.96	26.00	Complies

For Antenna 3 / Mode 6:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a 10MHz / Antenna 3

Configuration IEEE 802.11a Ant. 3-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	17.10	26.00	Complies
157	5785 MHz	16.20	26.00	Complies
165	5825MHz	16.28	26.00	Complies

Configuration IEEE 802.11a Ant. 3-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	17.98	26.00	Complies
157	5785 MHz	18.27	26.00	Complies
165	5825MHz	18.05	26.00	Complies

Configuration IEEE 802.11a Ant. 3-1 + Ant. 3-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	20.57	26.00	Complies
157	5785 MHz	20.37	26.00	Complies
165	5825MHz	20.26	26.00	Complies

For Antenna 4 / Mode 7:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a/g 5MHz / Antenna 4

For 2.4GHz Band:

Configuration IEEE 802.11g Ant. 4-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.02	30.00	Complies
6	2437 MHz	21.02	30.00	Complies
11	2462 MHz	21.06	30.00	Complies

Configuration IEEE 802.11g Ant. 4-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.49	30.00	Complies
6	2437 MHz	21.43	30.00	Complies
11	2462 MHz	21.36	30.00	Complies

Configuration IEEE 802.11g Ant. 4-1 + Ant. 4-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	24.27	30.00	Complies
6	2437 MHz	24.24	30.00	Complies
11	2462 MHz	24.22	30.00	Complies

For 5GHz Band:

Configuration IEEE 802.11a Ant. 4-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	16.56	30.00	Complies
157	5785 MHz	16.39	30.00	Complies
165	5825MHz	15.43	30.00	Complies

Configuration IEEE 802.11a Ant. 4-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	18.25	30.00	Complies
157	5785 MHz	17.95	30.00	Complies
165	5825MHz	18.07	30.00	Complies

Configuration IEEE 802.11a Ant. 4-1 + Ant. 4-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	20.50	30.00	Complies
157	5785 MHz	20.25	30.00	Complies
165	5825MHz	19.96	30.00	Complies

For Antenna 4 / Mode 8:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a/g 10MHz / Antenna 4

For 2.4GHz Band:

Configuration IEEE 802.11g Ant. 4-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	20.44	30.00	Complies
6	2437 MHz	20.67	30.00	Complies
11	2462 MHz	20.62	30.00	Complies

Configuration IEEE 802.11g Ant. 4-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.30	30.00	Complies
6	2437 MHz	21.95	30.00	Complies
11	2462 MHz	22.06	30.00	Complies

Configuration IEEE 802.11g Ant. 4-1 + Ant. 4-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	23.90	30.00	Complies
6	2437 MHz	24.37	30.00	Complies
11	2462 MHz	24.41	30.00	Complies

For 5GHz Band:

Configuration IEEE 802.11a Ant. 4-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	17.10	30.00	Complies
157	5785 MHz	16.20	30.00	Complies
165	5825MHz	16.28	30.00	Complies

Configuration IEEE 802.11a Ant. 4-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	17.98	30.00	Complies
157	5785 MHz	18.27	30.00	Complies
165	5825MHz	18.05	30.00	Complies

Configuration IEEE 802.11a Ant. 4-1 + Ant. 4-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	20.57	30.00	Complies
157	5785 MHz	20.37	30.00	Complies
165	5825MHz	20.26	30.00	Complies

For Antenna 5 / Mode 9:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11g 5MHz / Antenna 5

Configuration IEEE 802.11g Ant. 5-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.02	27.00	Complies
6	2437 MHz	21.02	27.00	Complies
11	2462 MHz	21.06	27.00	Complies

Configuration IEEE 802.11g Ant. 5-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.49	27.00	Complies
6	2437 MHz	21.43	27.00	Complies
11	2462 MHz	21.36	27.00	Complies

Configuration IEEE 802.11g Ant. 5-1 + Ant. 5-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	24.27	27.00	Complies
6	2437 MHz	24.24	27.00	Complies
11	2462 MHz	24.22	27.00	Complies

For Antenna 5 / Mode 10:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11g 10MHz / Antenna 5

Configuration IEEE 802.11g Ant. 5-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	20.44	27.00	Complies
6	2437 MHz	20.67	27.00	Complies
11	2462 MHz	20.62	27.00	Complies

Configuration IEEE 802.11g Ant. 5-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.30	27.00	Complies
6	2437 MHz	21.95	27.00	Complies
11	2462 MHz	22.06	27.00	Complies

Configuration IEEE 802.11g Ant. 5-1 + Ant. 5-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	23.90	27.00	Complies
6	2437 MHz	24.37	27.00	Complies
11	2462 MHz	24.41	27.00	Complies

For Antenna 6 / Mode 11:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11g 5MHz / Antenna 6

Configuration IEEE 802.11g Ant. 6-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.02	27.00	Complies
6	2437 MHz	21.02	27.00	Complies
11	2462 MHz	21.06	27.00	Complies

Configuration IEEE 802.11g Ant. 6-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.49	27.00	Complies
6	2437 MHz	21.43	27.00	Complies
11	2462 MHz	21.36	27.00	Complies

Configuration IEEE 802.11g Ant. 6-1 + Ant. 6-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	24.27	27.00	Complies
6	2437 MHz	24.24	27.00	Complies
11	2462 MHz	24.22	27.00	Complies

For Antenna 6 / Mode 12:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11g 10MHz / Antenna 6

Configuration IEEE 802.11g Ant. 6-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	20.44	27.00	Complies
6	2437 MHz	20.67	27.00	Complies
11	2462 MHz	20.62	27.00	Complies

Configuration IEEE 802.11g Ant. 6-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.30	27.00	Complies
6	2437 MHz	21.95	27.00	Complies
11	2462 MHz	22.06	27.00	Complies

Configuration IEEE 802.11g Ant. 6-1 + Ant. 6-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	23.90	27.00	Complies
6	2437 MHz	24.37	27.00	Complies
11	2462 MHz	24.41	27.00	Complies

For Antenna 7 / Mode 13:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11g 5MHz / Antenna 7

Configuration IEEE 802.11g Ant. 7-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.02	30.00	Complies
6	2437 MHz	21.02	30.00	Complies
11	2462 MHz	21.06	30.00	Complies

Configuration IEEE 802.11g Ant. 7-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.49	30.00	Complies
6	2437 MHz	21.43	30.00	Complies
11	2462 MHz	21.36	30.00	Complies

Configuration IEEE 802.11g Ant. 7-1 + Ant. 7-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	24.27	30.00	Complies
6	2437 MHz	24.24	30.00	Complies
11	2462 MHz	24.22	30.00	Complies

For Antenna 7 / Mode 14:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11g 10MHz / Antenna 7

Configuration IEEE 802.11g Ant. 7-1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	20.44	30.00	Complies
6	2437 MHz	20.67	30.00	Complies
11	2462 MHz	20.62	30.00	Complies

Configuration IEEE 802.11g Ant. 7-2

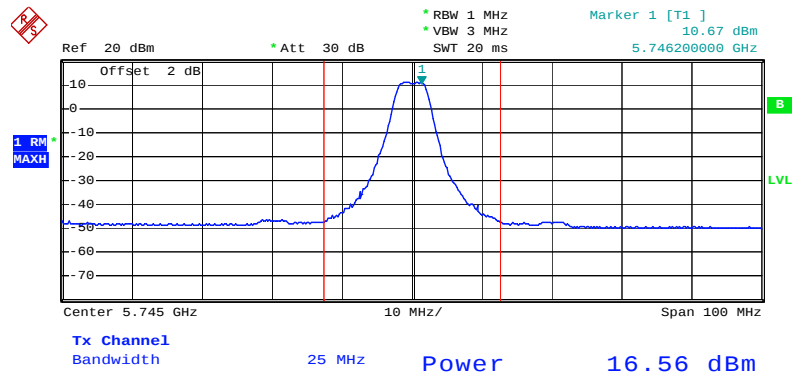
Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.30	30.00	Complies
6	2437 MHz	21.95	30.00	Complies
11	2462 MHz	22.06	30.00	Complies

Configuration IEEE 802.11g Ant. 7-1 + Ant. 7-2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	23.90	30.00	Complies
6	2437 MHz	24.37	30.00	Complies
11	2462 MHz	24.41	30.00	Complies

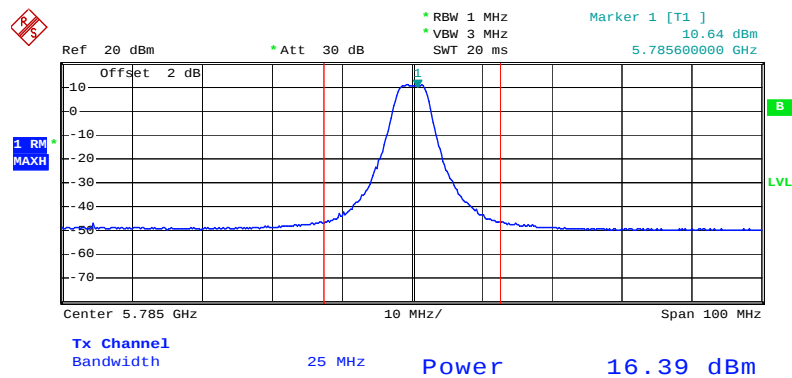
For Antenna 1 / Mode 1:

Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 1-1 / 5745 MHz



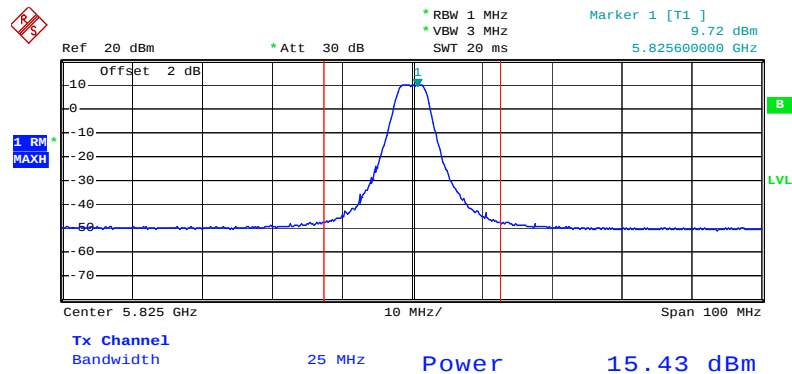
Date: 21.JUN.2010 12:33:14

Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 1-1 / 5785 MHz



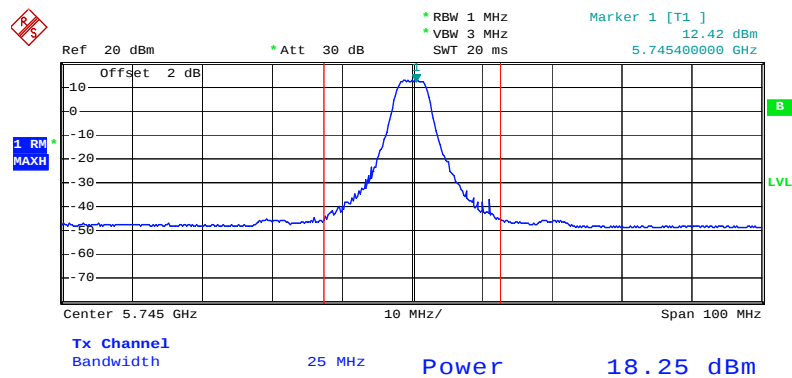
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Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 1-1 / 5825MHz



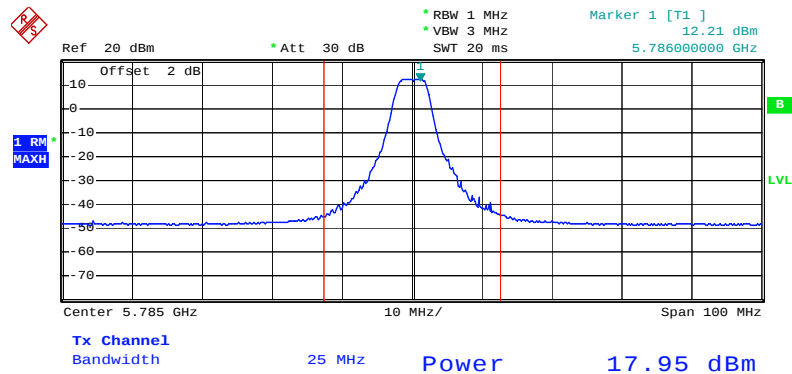
Date: 21.JUN.2010 12:36:27

Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 1-2 / 5745 MHz



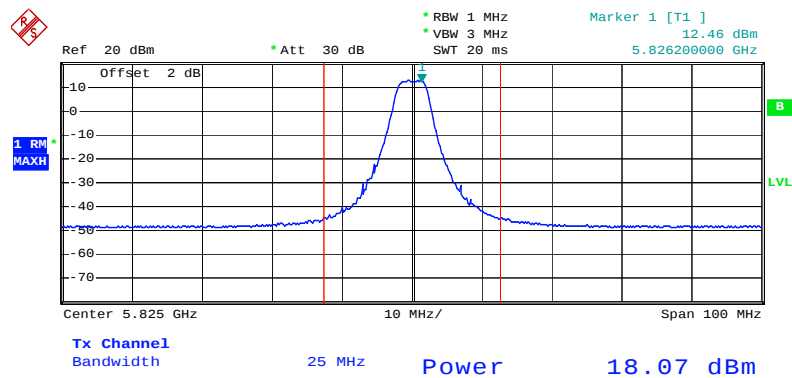
Date: 21.JUN.2010 12:32:00

Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 1-2 / 5785 MHz



Date: 21.JUN.2010 12:35:07

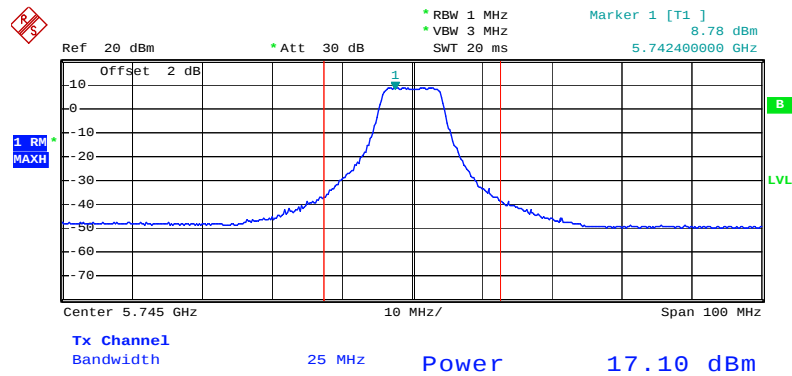
Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 1-2 / 5825 MHz



Date: 21.JUN.2010 12:35:41

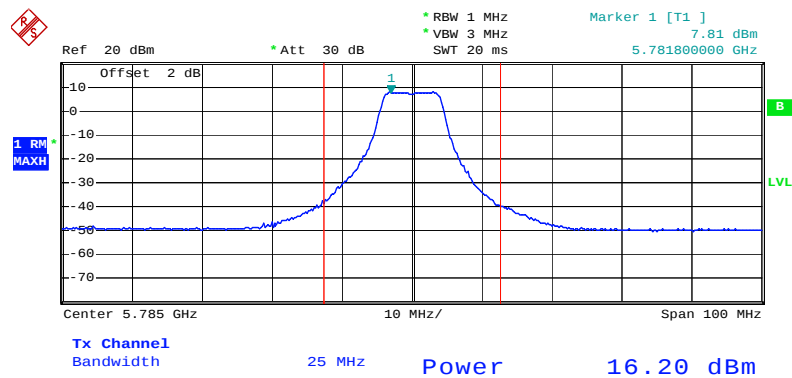
For Antenna 1 / Mode 2:

Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 1-1 / 5745 MHz



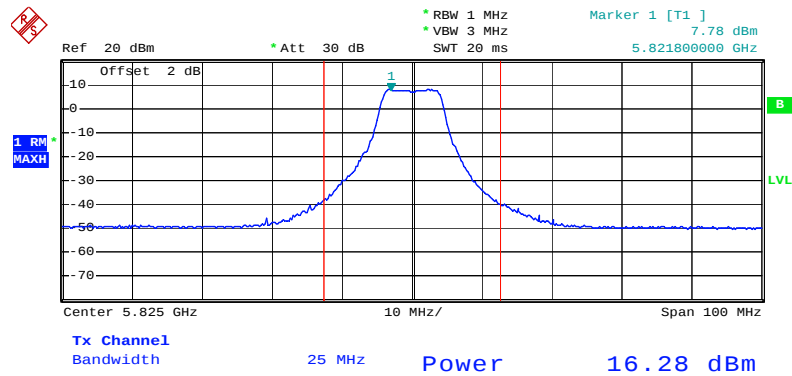
Date: 21.JUN.2010 12:58:56

Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 1-1 / 5785 MHz



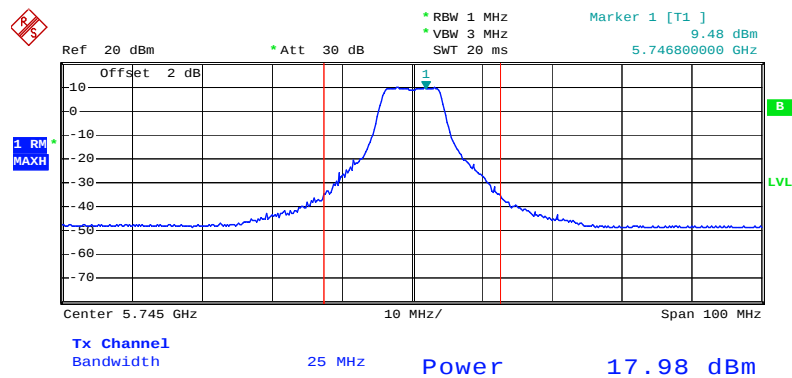
Date: 21.JUN.2010 13:01:02

Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 1-1 / 5825MHz



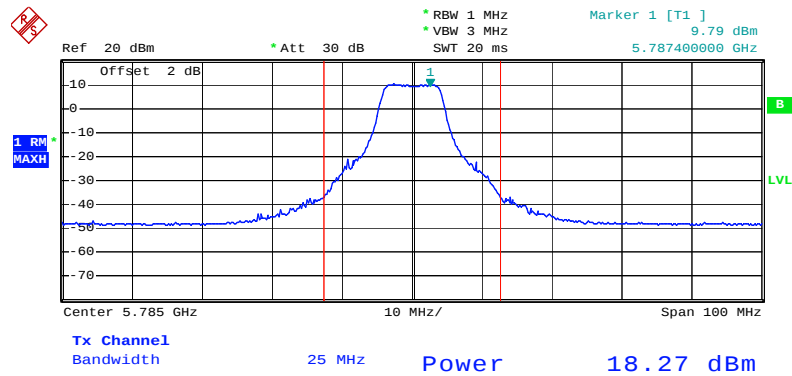
Date: 21.JUN.2010 13:01:35

Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 1-2 / 5745 MHz



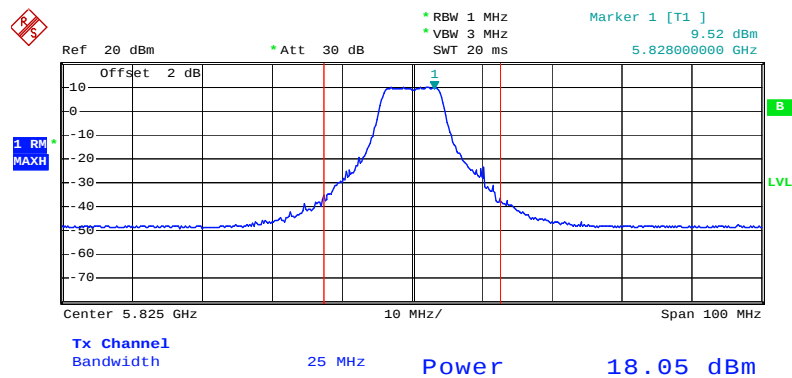
Date: 21.JUN.2010 12:59:38

Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 1-2 / 5785 MHz



Date: 21.JUN.2010 13:00:23

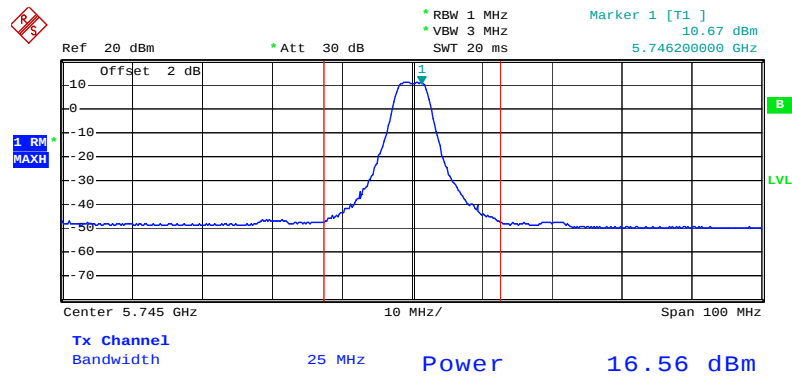
Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 1-2 / 5825 MHz



Date: 21.JUN.2010 13:02:12

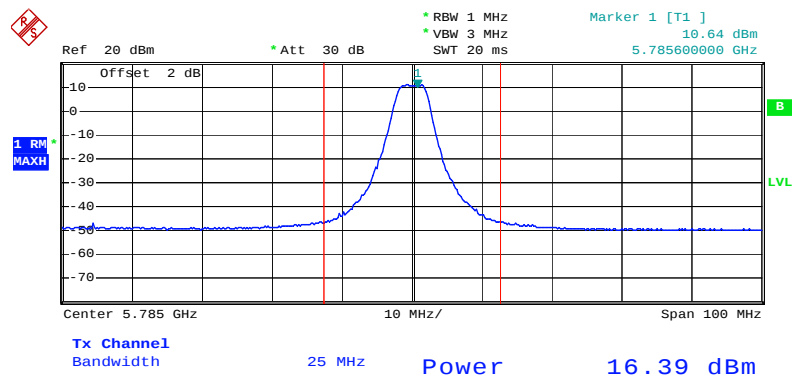
For Antenna 2 / Mode 3:

Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 2-1 / 5745 MHz



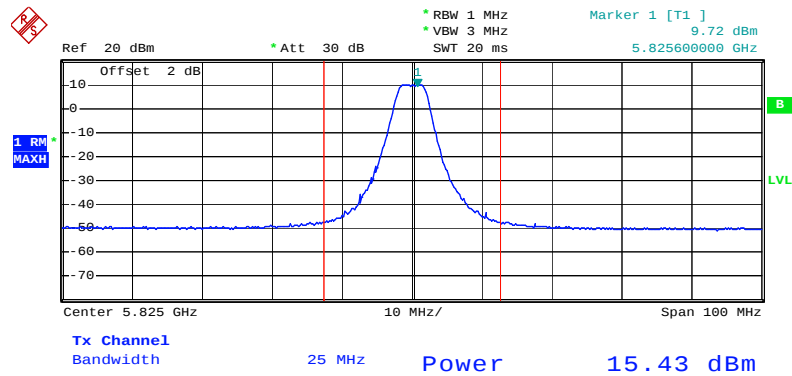
Date: 21.JUN.2010 12:33:14

Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 2-1 / 5785 MHz



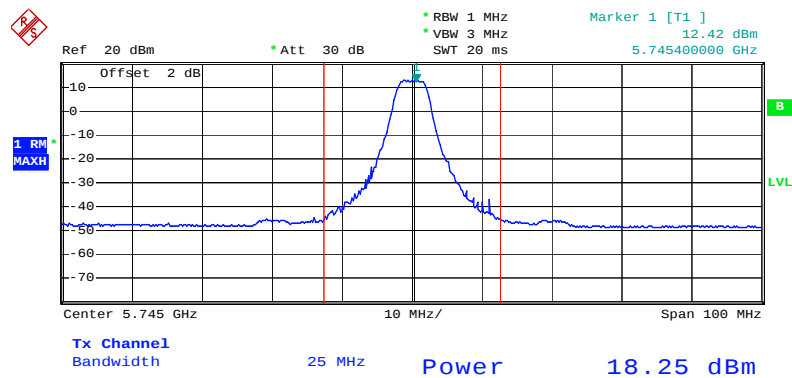
Date: 21.JUN.2010 12:33:54

Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 2-1 / 5825MHz



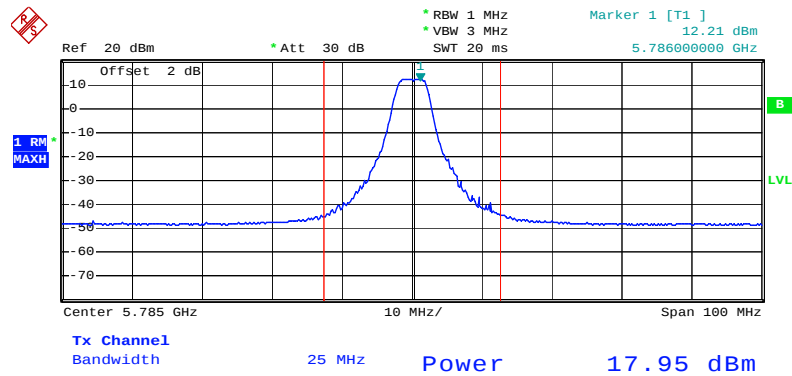
Date: 21.JUN.2010 12:36:27

Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 2-2 / 5745 MHz



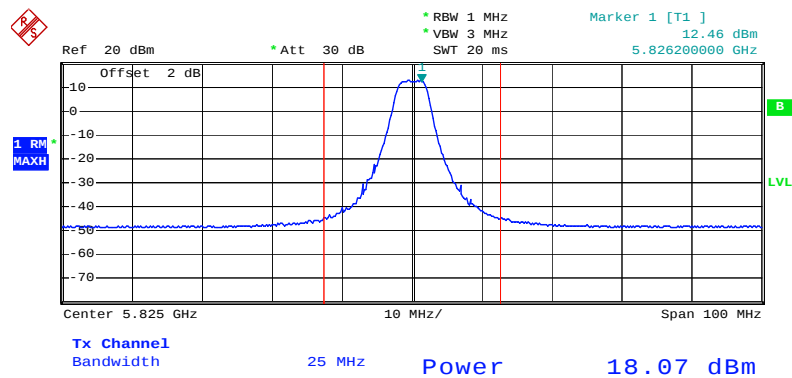
Date: 21.JUN.2010 12:32:00

Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 2-2 / 5785 MHz



Date: 21.JUN.2010 12:35:07

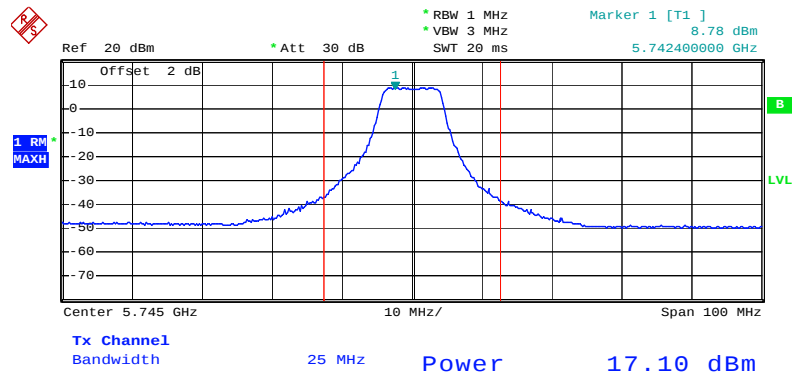
Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 2-2 / 5825 MHz



Date: 21.JUN.2010 12:35:41

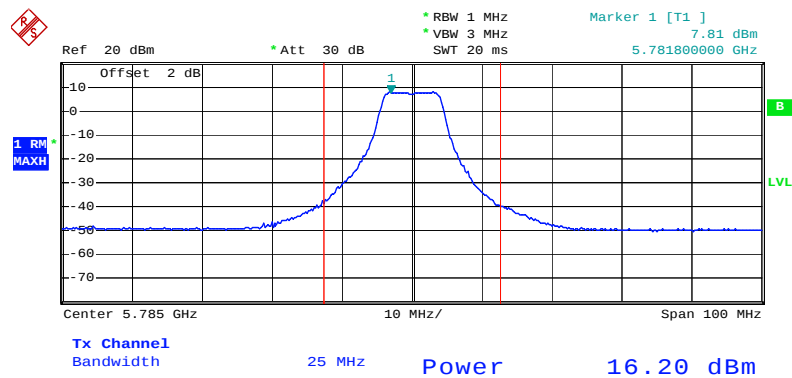
For Antenna 2 / Mode 4:

Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 2-1 / 5745 MHz



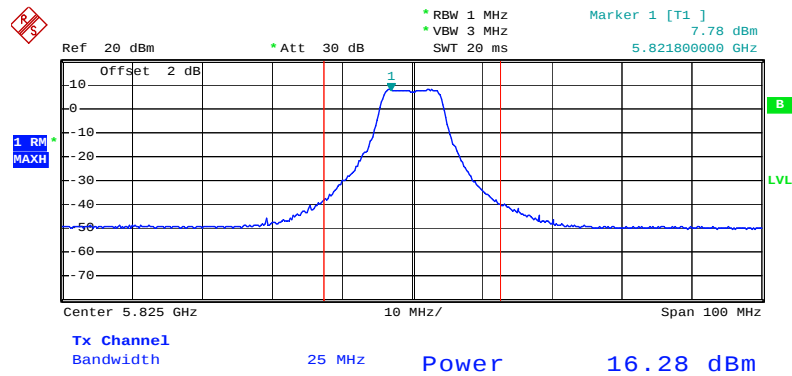
Date: 21.JUN.2010 12:58:56

Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 2-1 / 5785 MHz



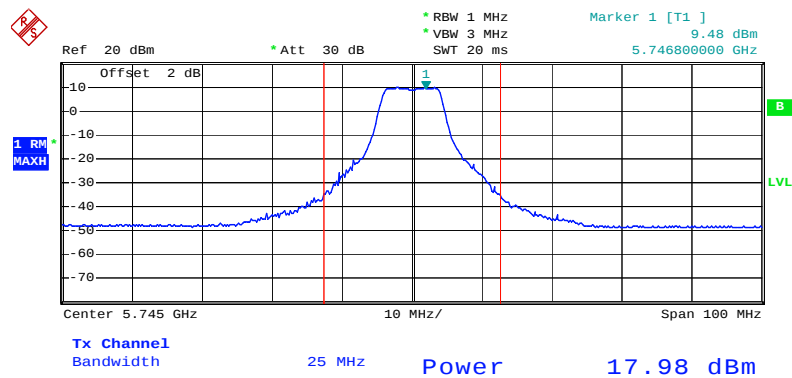
Date: 21.JUN.2010 13:01:02

Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 2-1 / 5825MHz



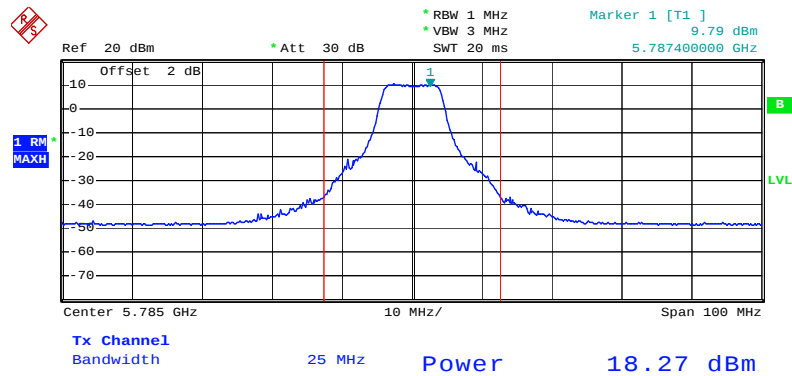
Date: 21.JUN.2010 13:01:35

Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 2-2 / 5745 MHz



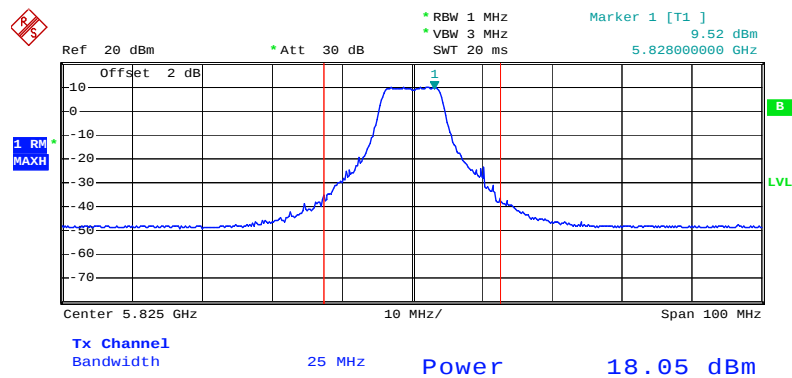
Date: 21.JUN.2010 12:59:38

Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 2-2 / 5785 MHz



Date: 21.JUN.2010 13:00:23

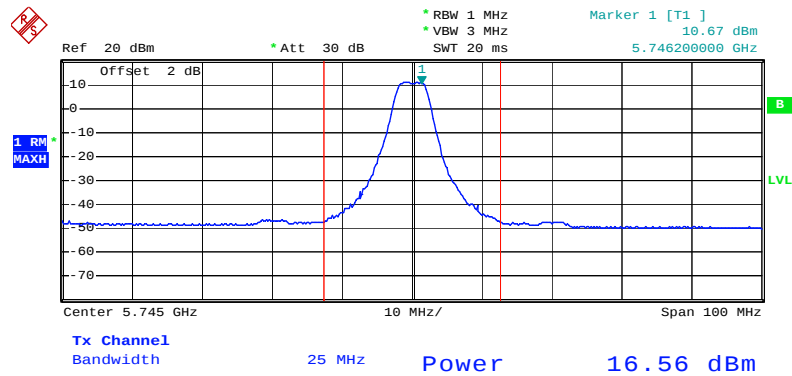
Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 2-2 / 5825 MHz



Date: 21.JUN.2010 13:02:12

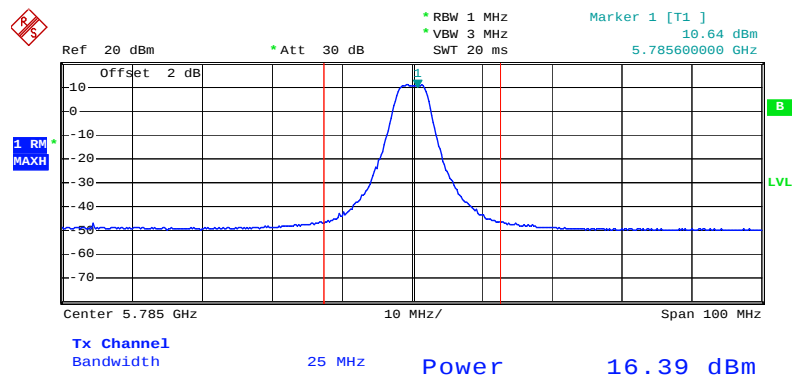
For Antenna 3 / Mode 5:

Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 3-1 / 5745 MHz



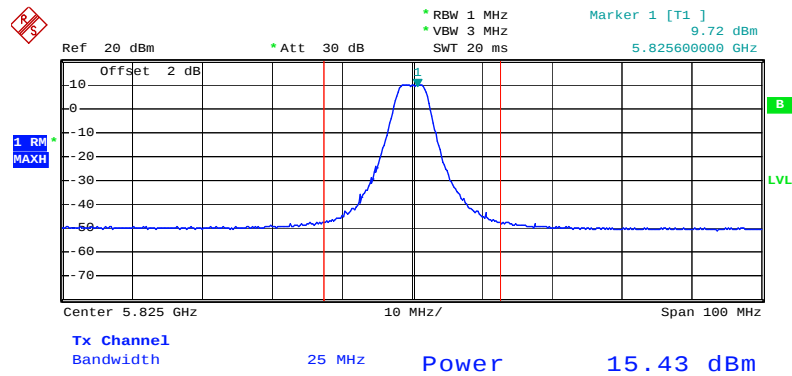
Date: 21.JUN.2010 12:33:14

Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 3-1 / 5785 MHz



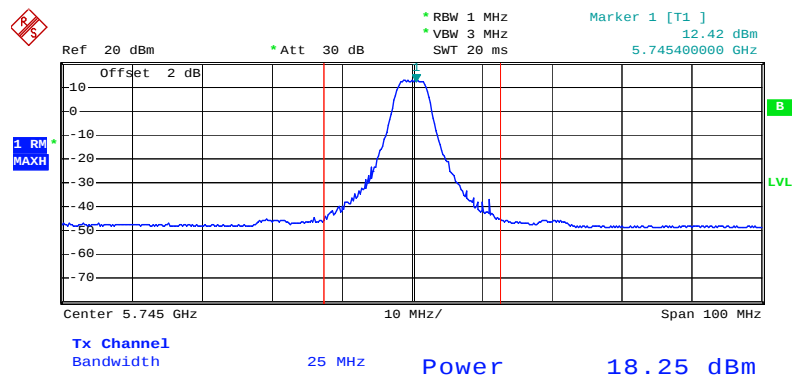
Date: 21.JUN.2010 12:33:54

Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 3-1 / 5825MHz



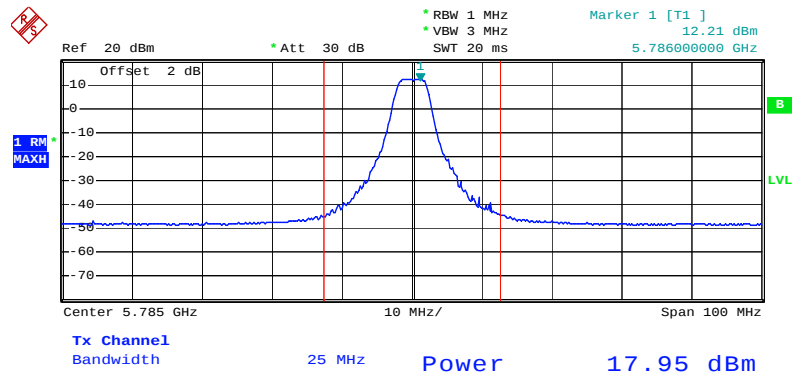
Date: 21.JUN.2010 12:36:27

Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 3-2 / 5745 MHz



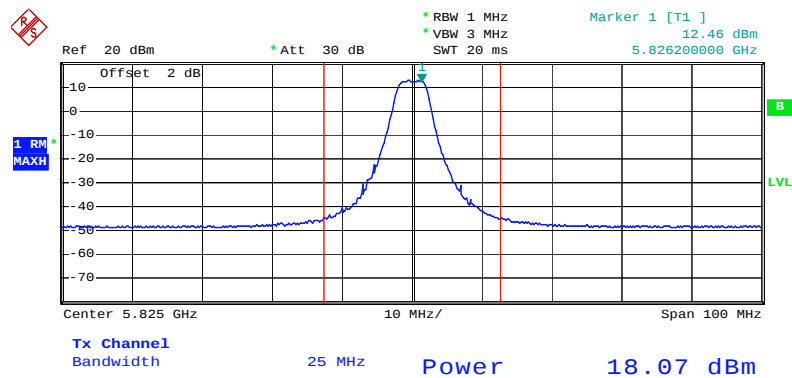
Date: 21.JUN.2010 12:32:00

Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 3-2 / 5785 MHz



Date: 21.JUN.2010 12:35:07

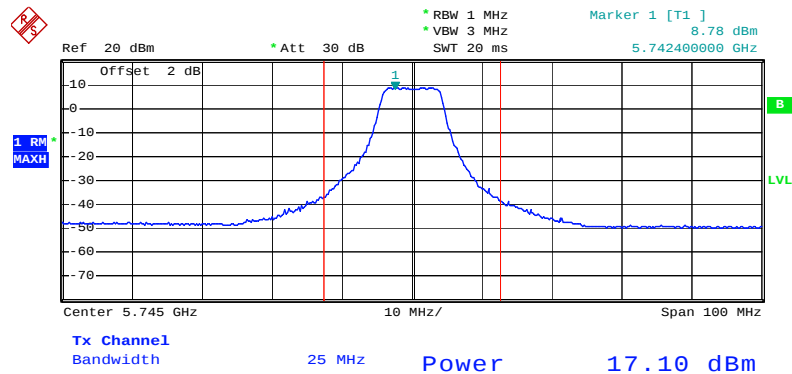
Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 3-2 / 5825 MHz



Date: 21.JUN.2010 12:35:41

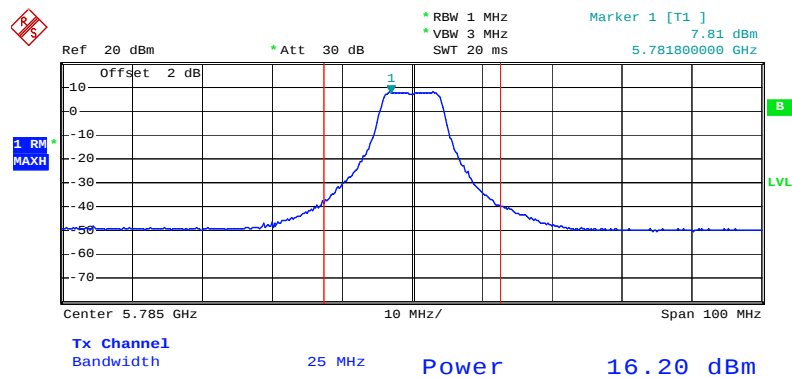
For Antenna 3 / Mode 6:

Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 3-1 / 5745 MHz



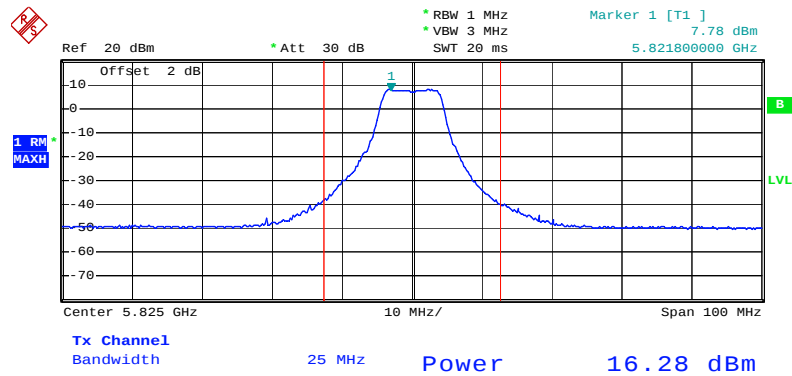
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Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 3-1 / 5785 MHz



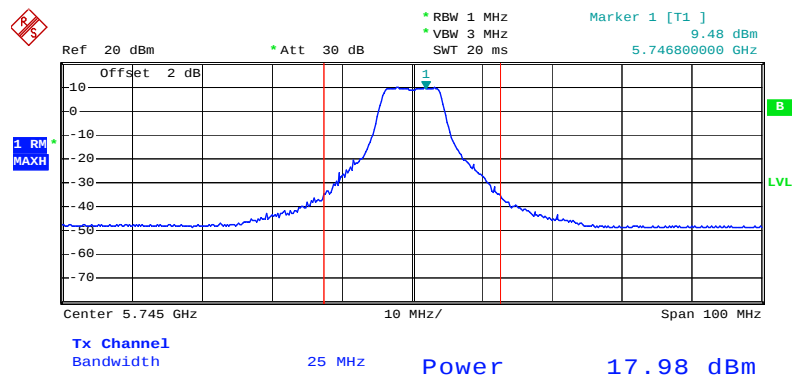
Date: 21.JUN.2010 13:01:02

Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 3-1 / 5825MHz



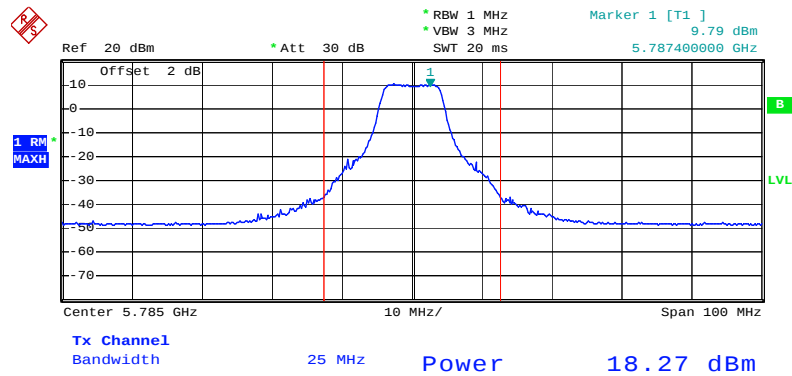
Date: 21.JUN.2010 13:01:35

Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 3-2 / 5745 MHz



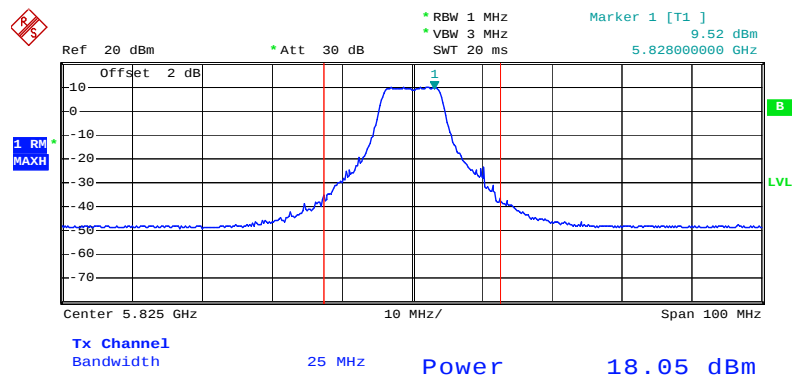
Date: 21.JUN.2010 12:59:38

Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 3-2 / 5785 MHz



Date: 21.JUN.2010 13:00:23

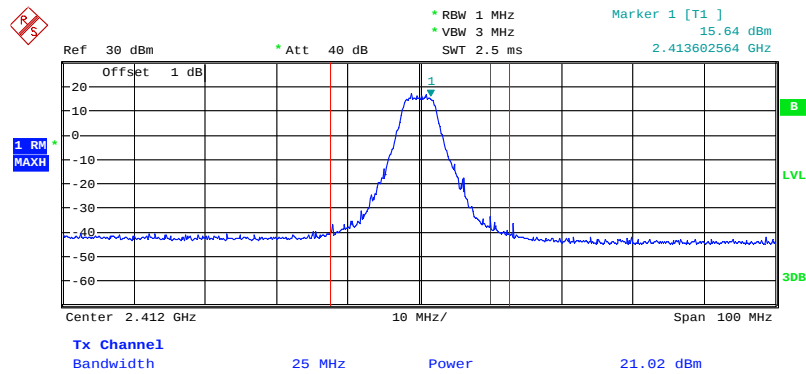
Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 3-2 / 5825 MHz



Date: 21.JUN.2010 13:02:12

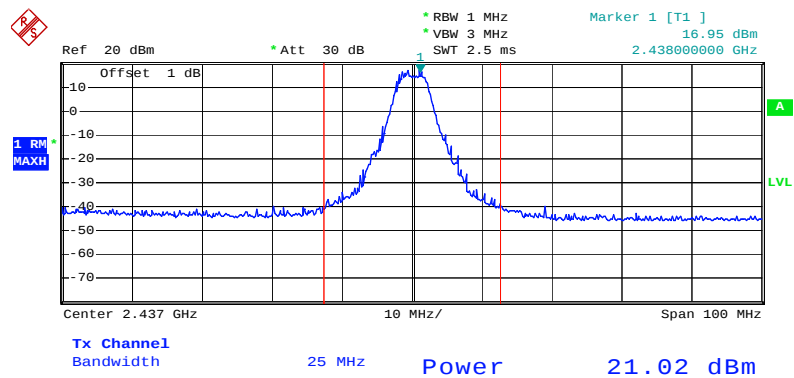
For Antenna 4 / Mode 7:

Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 4-1 / 2412 MHz



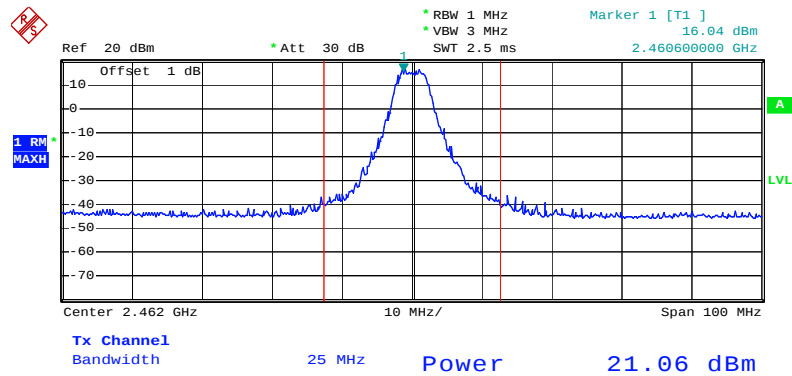
Date: 21.JUN.2010 19:47:13

Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 4-1 / 2437 MHz



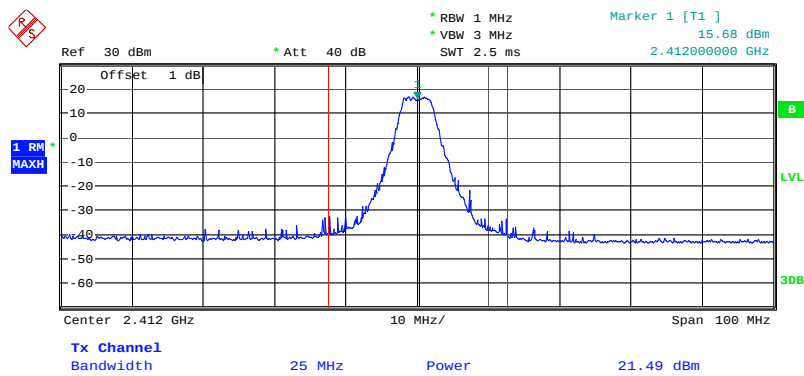
Date: 21.JUN.2010 11:56:13

Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 4-1 / 2462 MHz



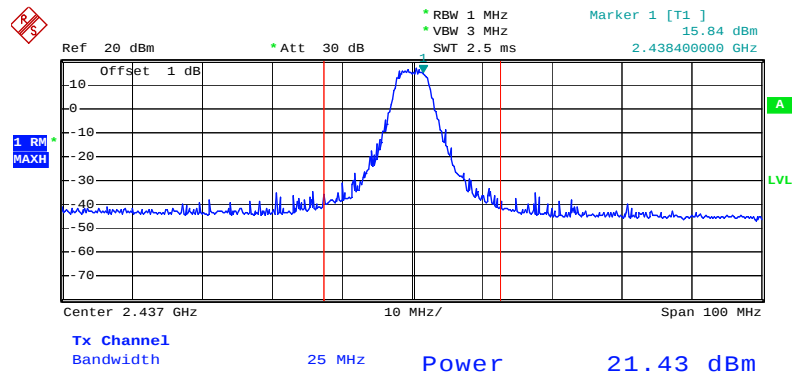
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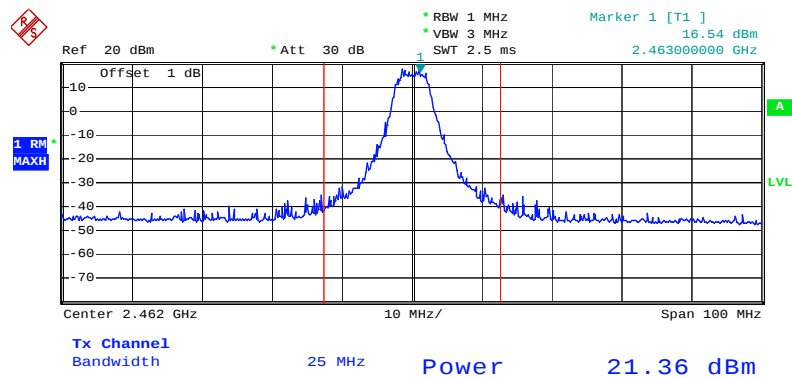
Date: 21.JUN.2010 19:45:58

Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 4-2 / 2437 MHz



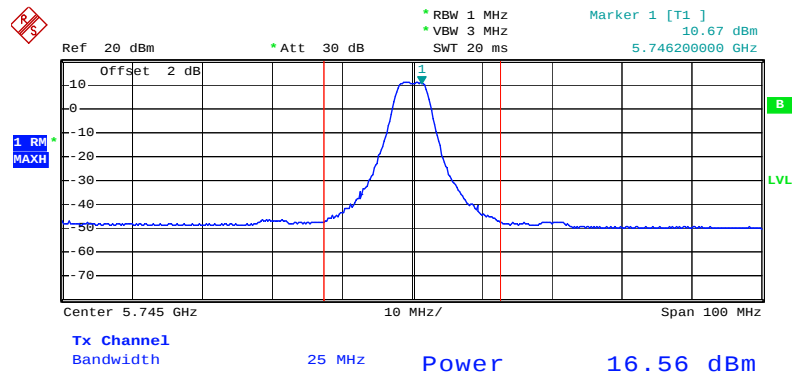
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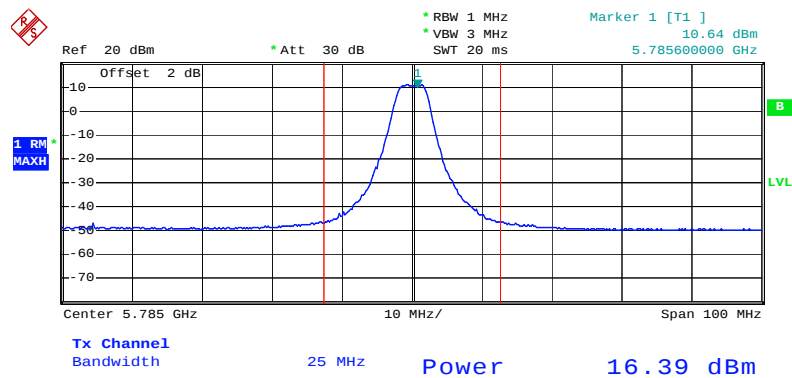
Date: 21.JUN.2010 11:57:39

Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 4-1 / 5745 MHz



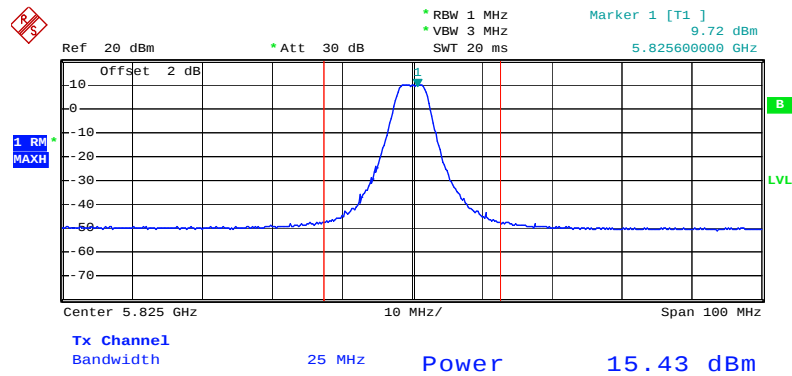
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Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 4-1 / 5785 MHz



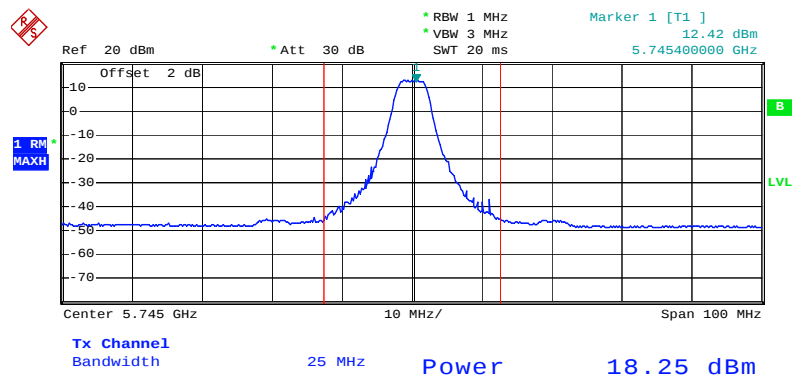
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Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 4-1 / 5825MHz



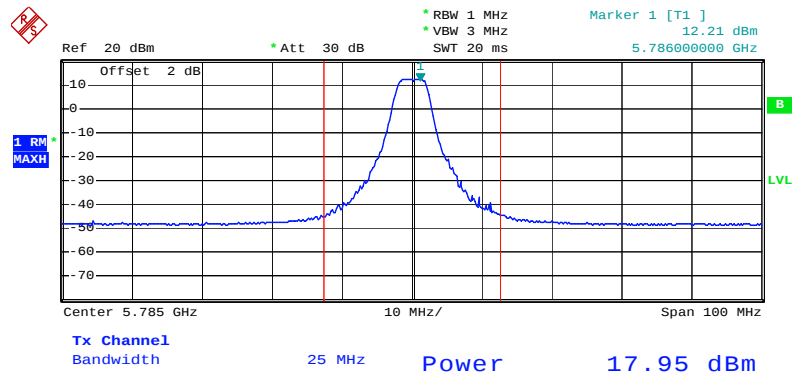
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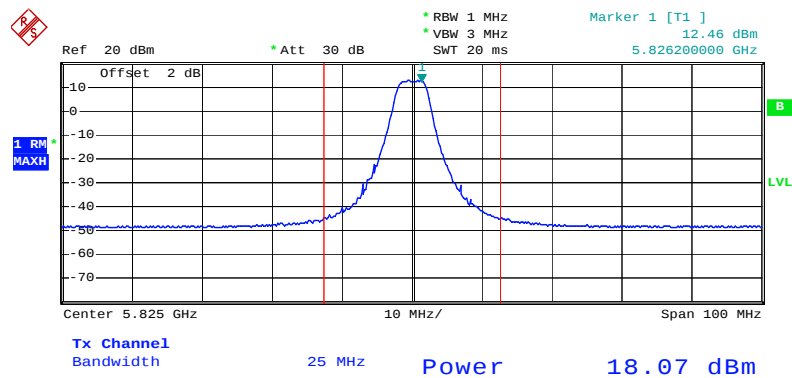
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Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 4-2 / 5785 MHz



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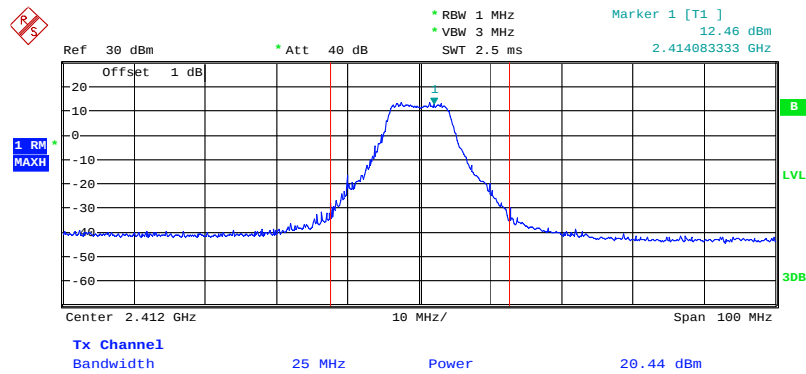
Conducted Output Power Plot on Configuration IEEE 802.11a 5MHz Ant. 4-2 / 5825 MHz



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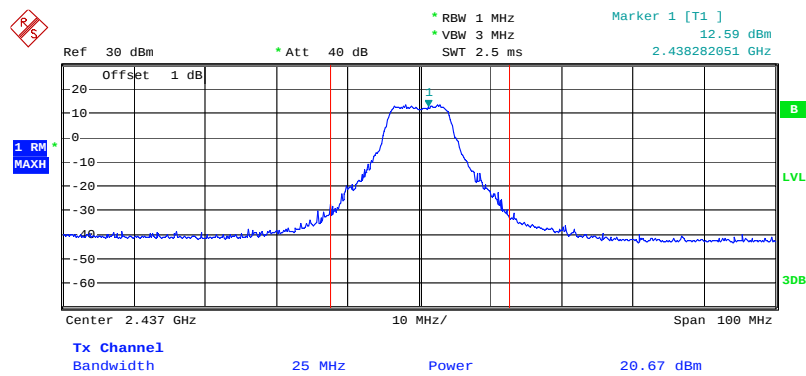
For Antenna 4 / Mode 8:

Conducted Output Power Plot on Configuration IEEE 802.11g 10MHz Ant. 4-1 / 2412 MHz



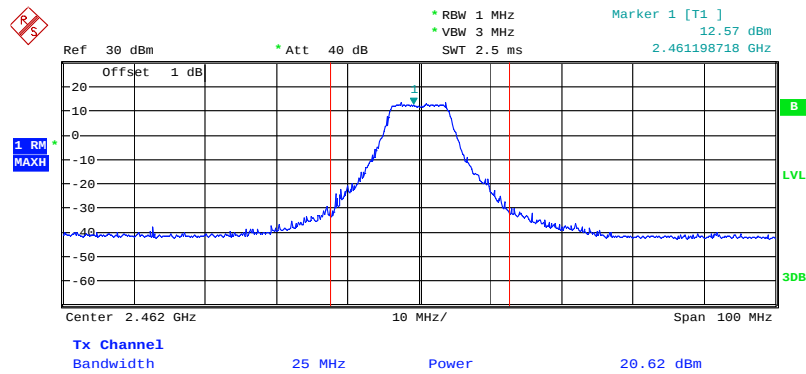
Date: 21.JUN.2010 19:33:27

Conducted Output Power Plot on Configuration IEEE 802.11g 10MHz Ant. 4-1 / 2437 MHz



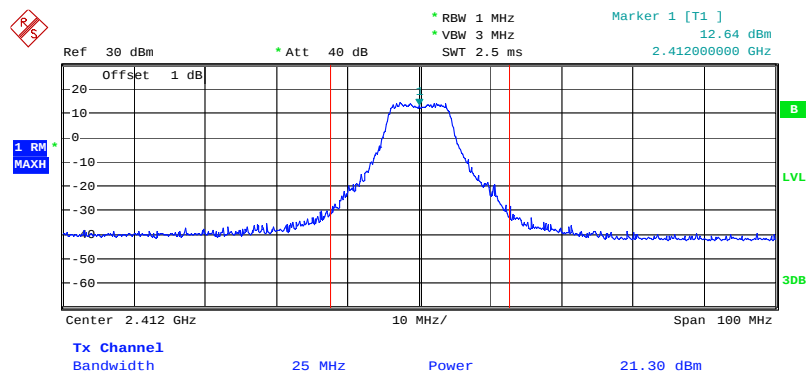
Date: 21.JUN.2010 19:38:30

Conducted Output Power Plot on Configuration IEEE 802.11g 10MHz Ant. 4-1 / 2462 MHz



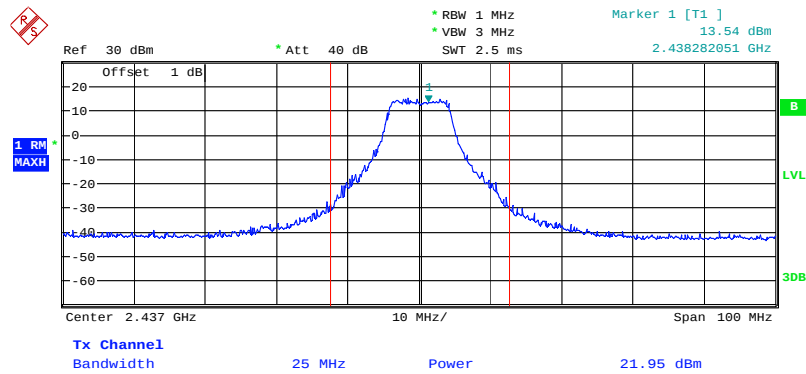
Date: 21.JUN.2010 19:40:02

Conducted Output Power Plot on Configuration IEEE 802.11g 10MHz Ant. 4-2 / 2412 MHz



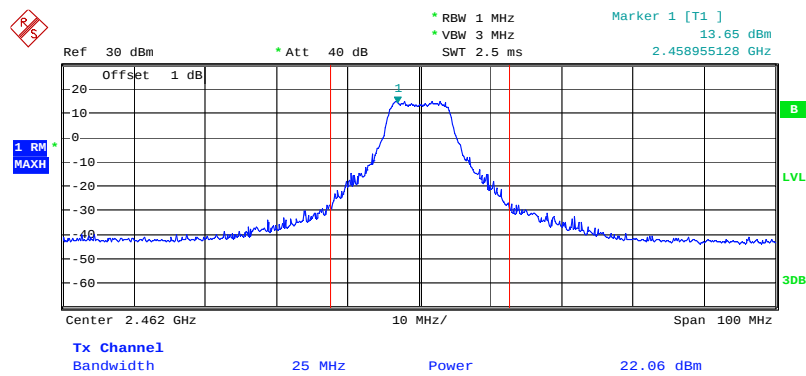
Date: 21.JUN.2010 19:35:01

Conducted Output Power Plot on Configuration IEEE 802.11g 10MHz Ant. 4-2 / 2437 MHz



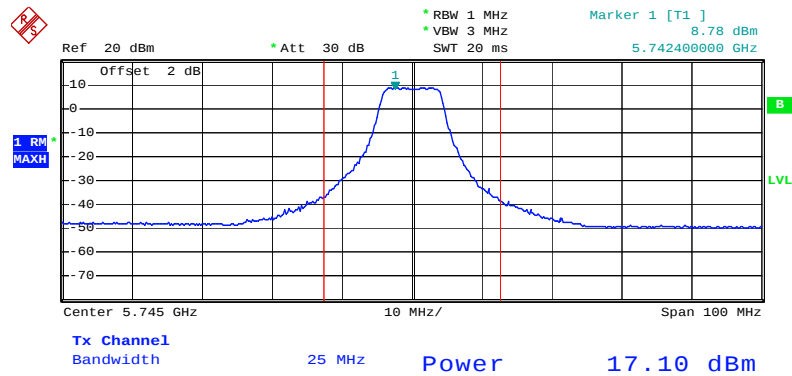
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Conducted Output Power Plot on Configuration IEEE 802.11g 10MHz Ant. 4-2 / 2462 MHz



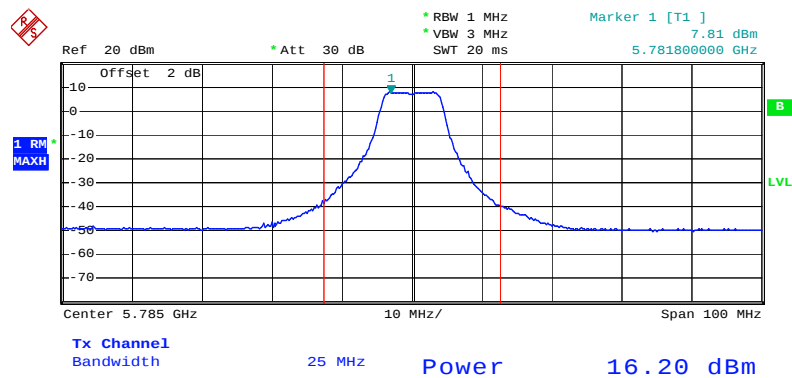
Date: 21.JUN.2010 19:40:51

Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 4-1 / 5745 MHz



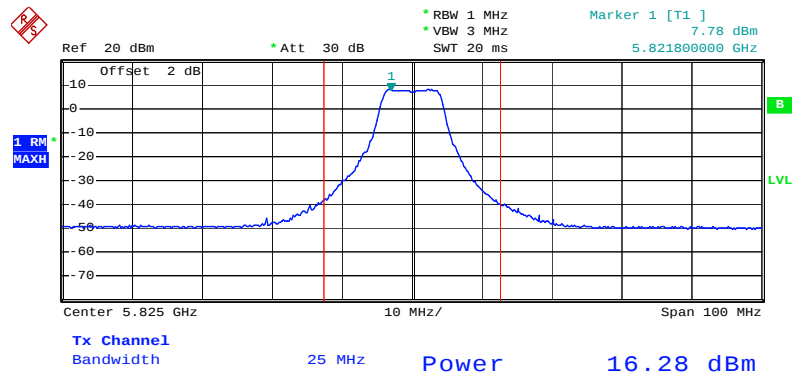
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Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 4-1 / 5785 MHz



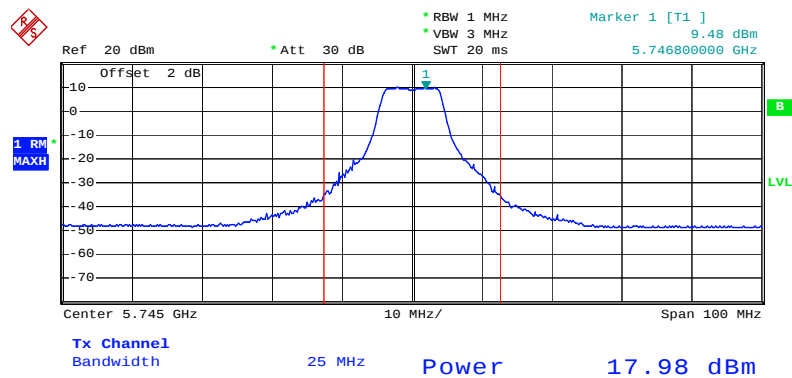
Date: 21.JUN.2010 13:01:02

Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 4-1 / 5825MHz



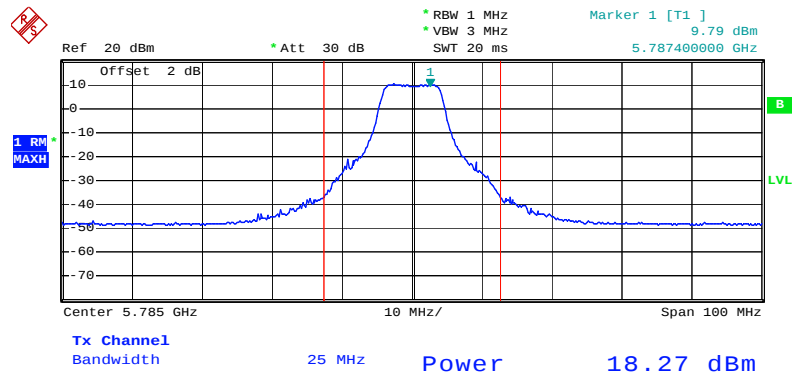
Date: 21.JUN.2010 13:01:35

Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 4-2 / 5745 MHz



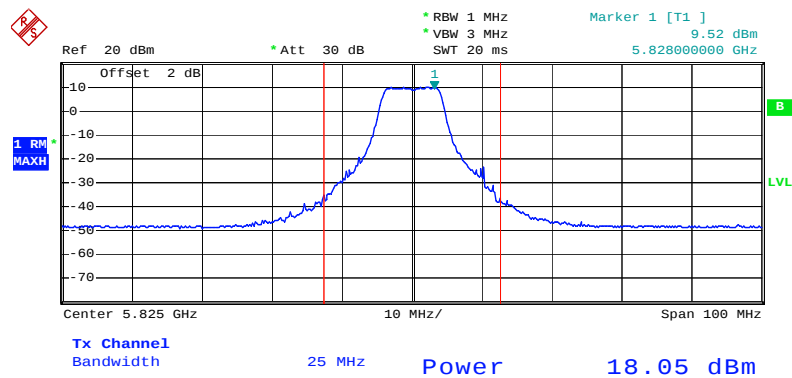
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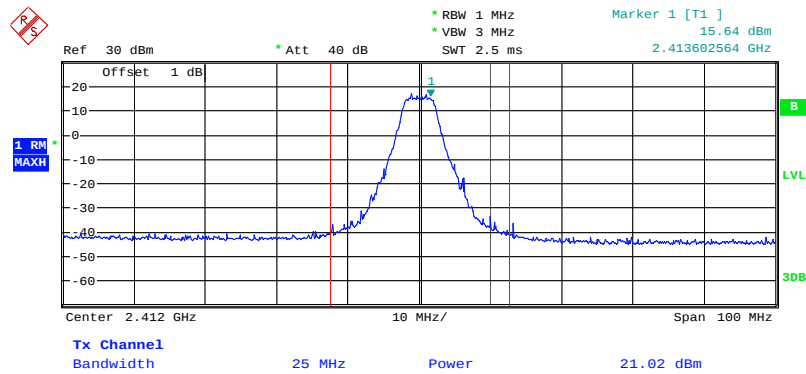
Conducted Output Power Plot on Configuration IEEE 802.11a 10MHz Ant. 4-2 / 5825 MHz



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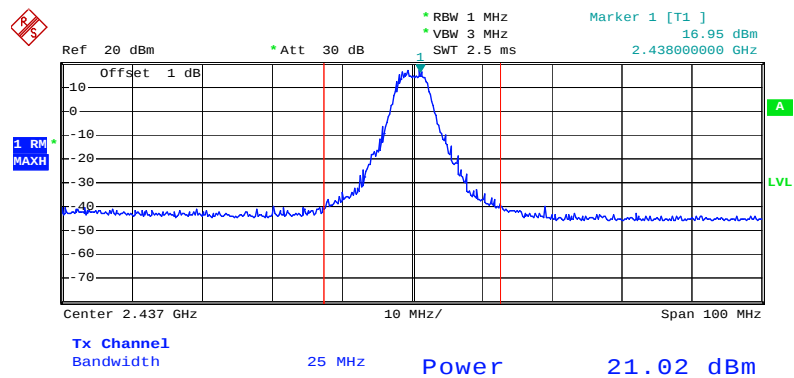
For Antenna 5 / Mode 9:

Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 5-1 / 2412 MHz



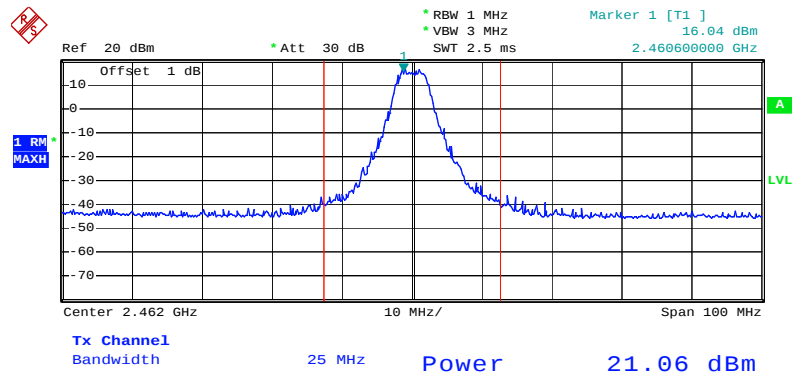
Date: 21.JUN.2010 19:47:13

Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 5-1 / 2437 MHz



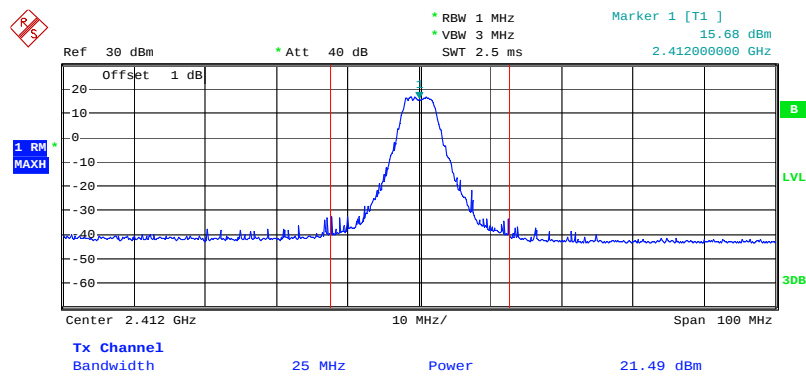
Date: 21.JUN.2010 11:56:13

Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 5-1 / 2462 MHz



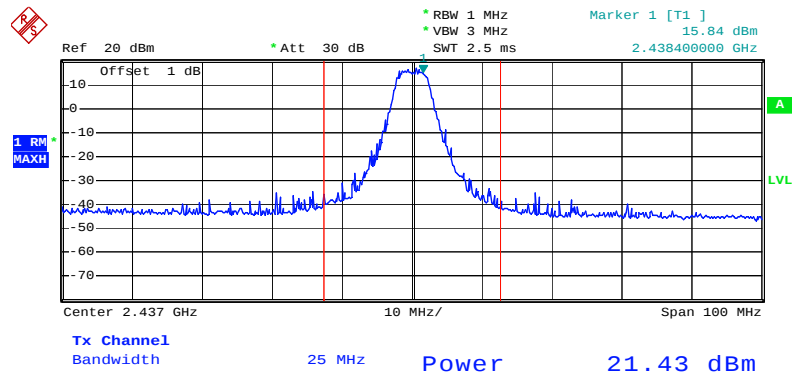
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Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 5-2 / 2412 MHz



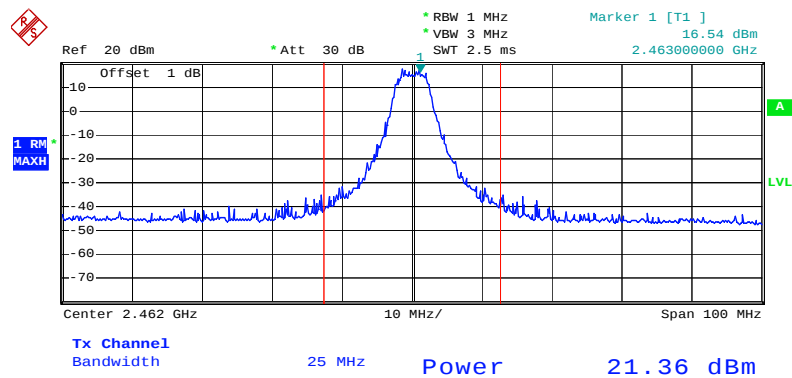
Date: 21.JUN.2010 19:45:58

Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 5-2 / 2437 MHz



Date: 21.JUN.2010 11:55:19

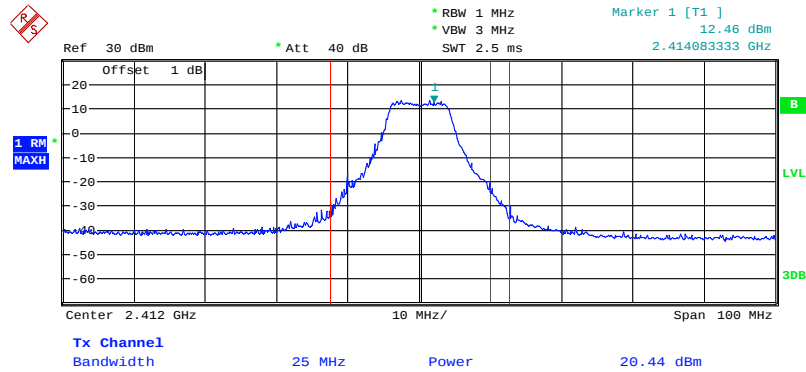
Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 5-2 / 2462 MHz



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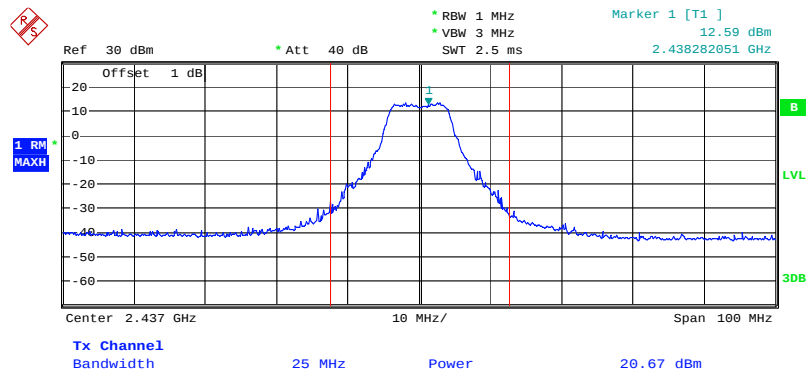
For Antenna 5 / Mode 10:

Conducted Output Power Plot on Configuration IEEE 802.11g 10MHz Ant. 5-1 / 2412 MHz



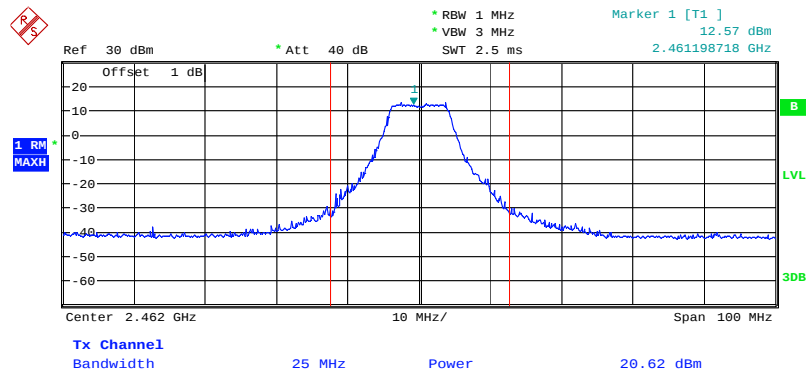
Date: 21.JUN.2010 19:33:27

Conducted Output Power Plot on Configuration IEEE 802.11g 10MHz Ant. 5-1 / 2437 MHz



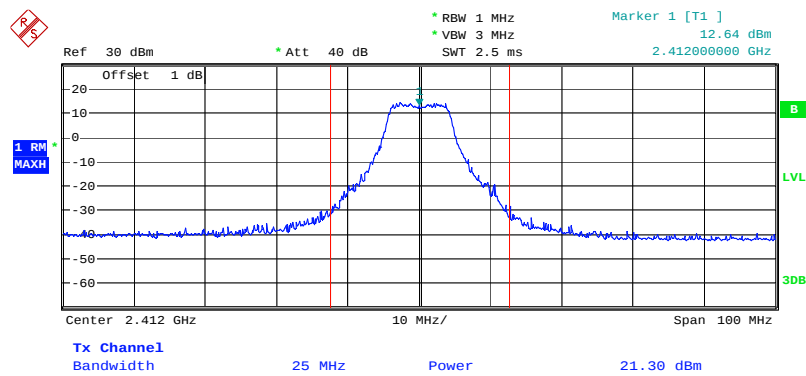
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Conducted Output Power Plot on Configuration IEEE 802.11g 10MHz Ant. 5-1 / 2462 MHz



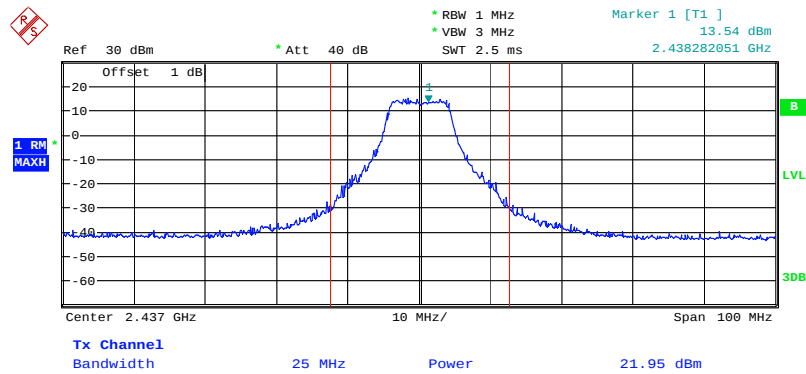
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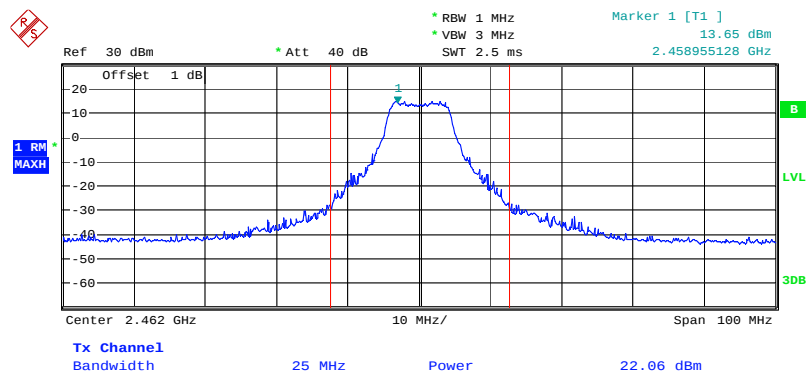
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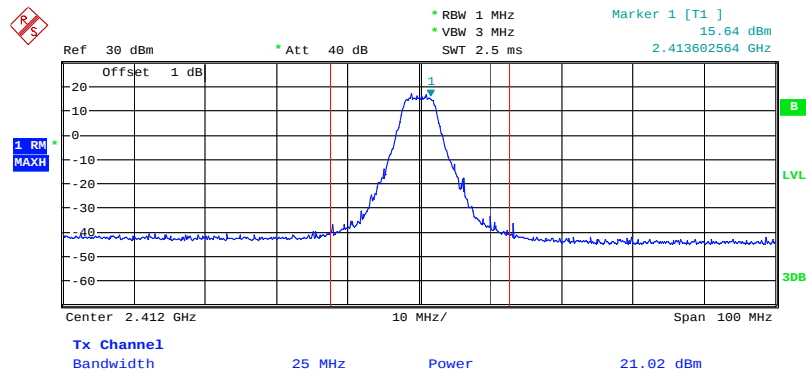
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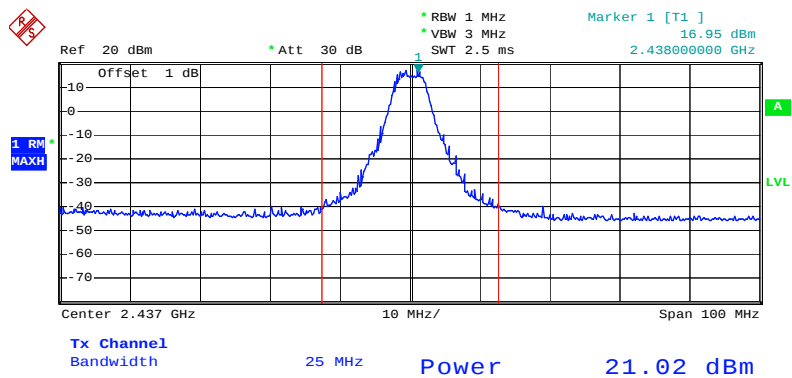
For Antenna 6 / Mode 11:

Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 6-1 / 2412 MHz



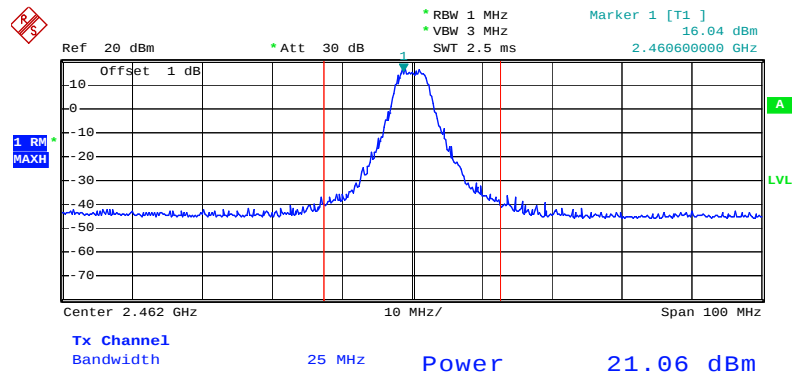
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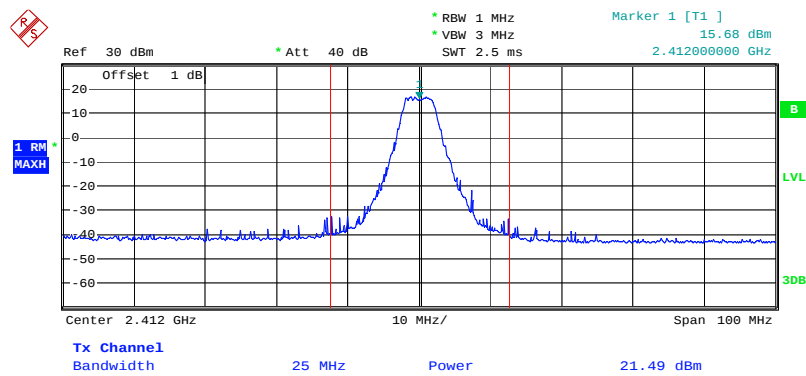
Date: 21.JUN.2010 11:56:13

Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 6-1 / 2462 MHz



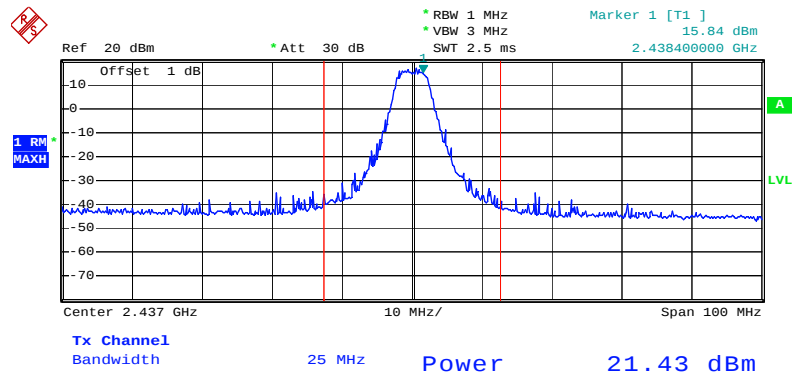
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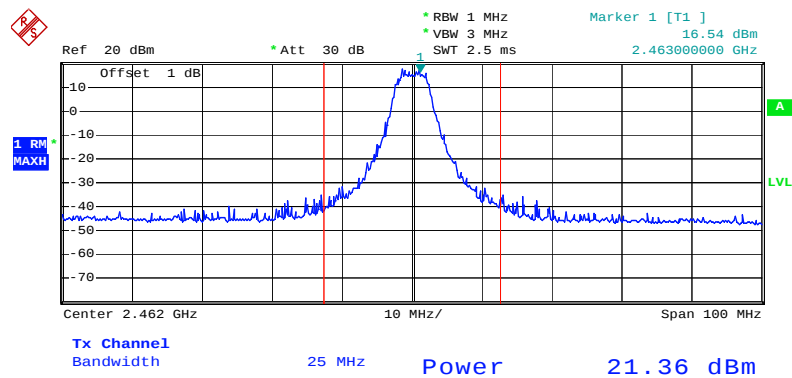
Date: 21.JUN.2010 19:45:58

Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 6-2 / 2437 MHz



Date: 21.JUN.2010 11:55:19

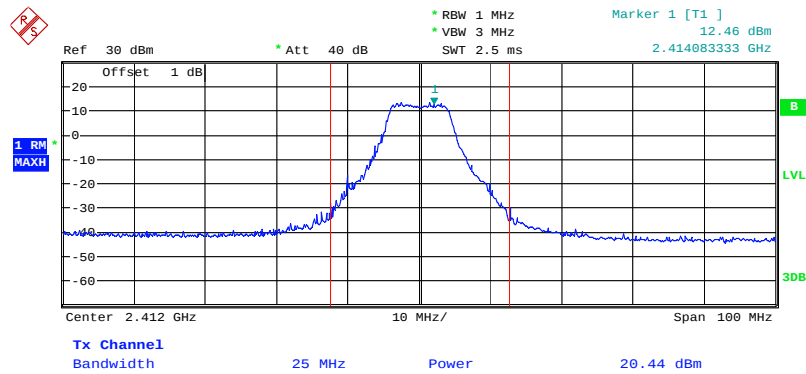
Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 6-2 / 2462 MHz



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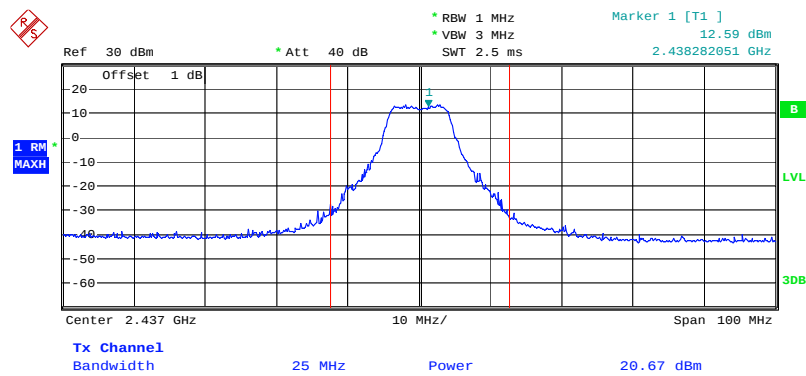
For Antenna 6 / Mode 12:

Conducted Output Power Plot on Configuration IEEE 802.11g 10MHz Ant. 6-1 / 2412 MHz



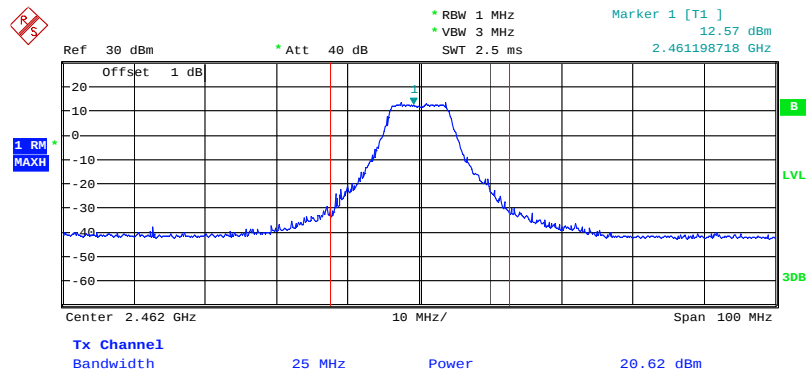
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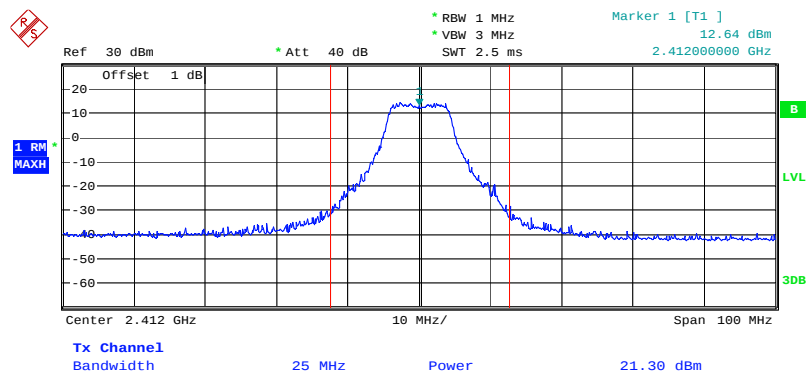
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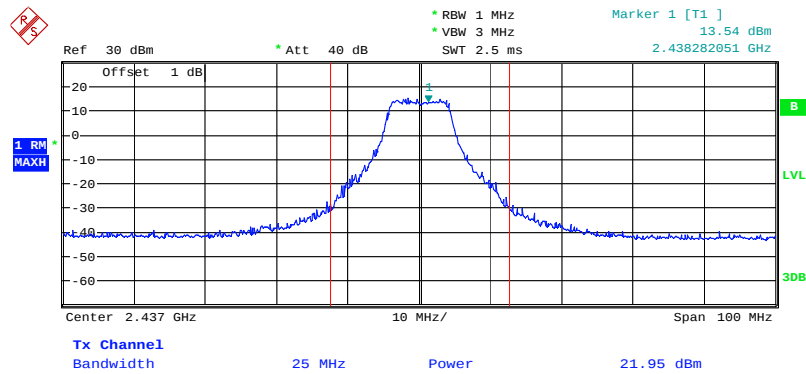
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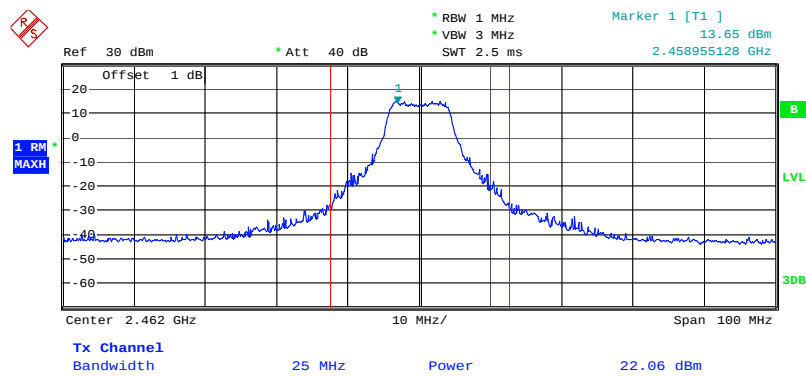
Date: 21.JUN.2010 19:35:01

Conducted Output Power Plot on Configuration IEEE 802.11g 10MHz Ant. 6-2 / 2437 MHz



Date: 21.JUN.2010 19:37:00

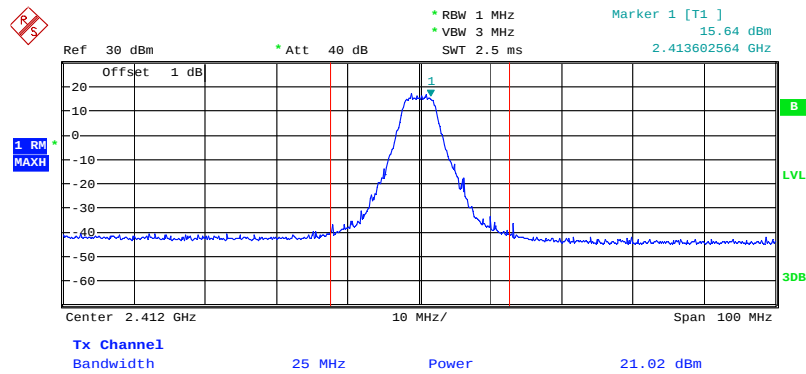
Conducted Output Power Plot on Configuration IEEE 802.11g 10MHz Ant. 6-2 / 2462 MHz



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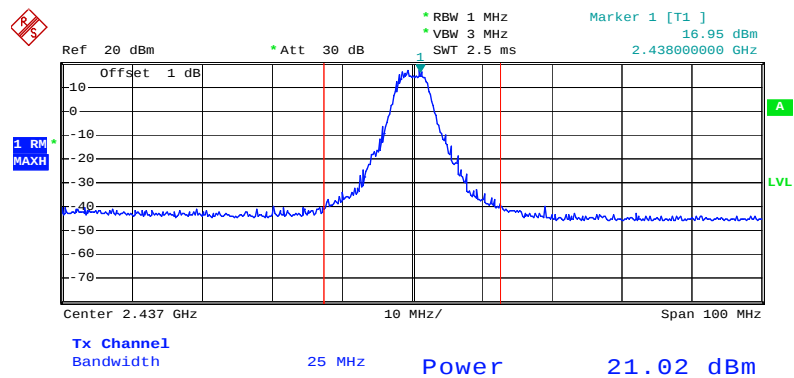
For Antenna 7 / Mode 13:

Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 7-1 / 2412 MHz



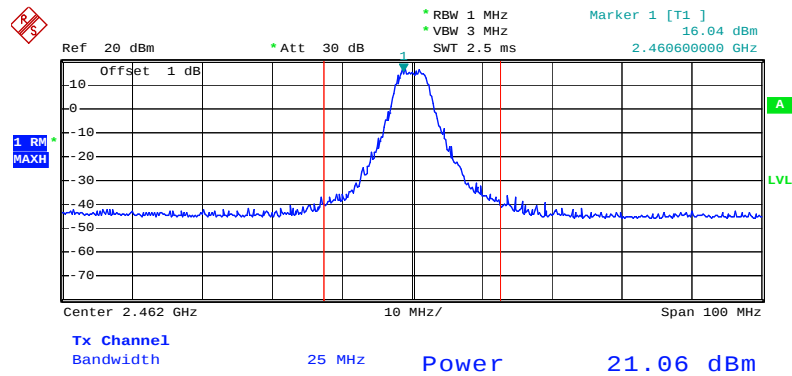
Date: 21.JUN.2010 19:47:13

Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 7-1 / 2437 MHz



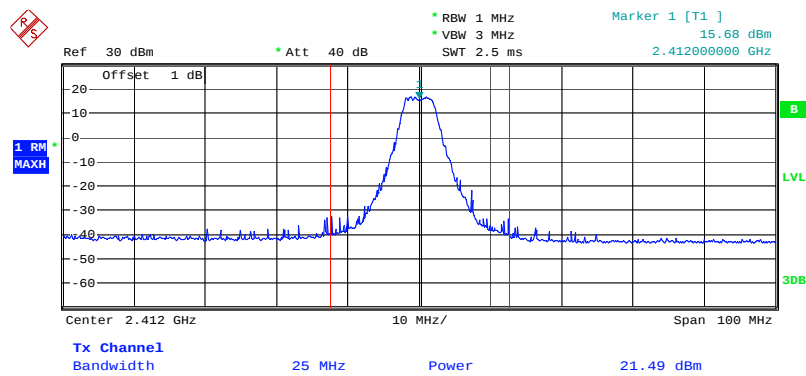
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Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 7-1 / 2462 MHz



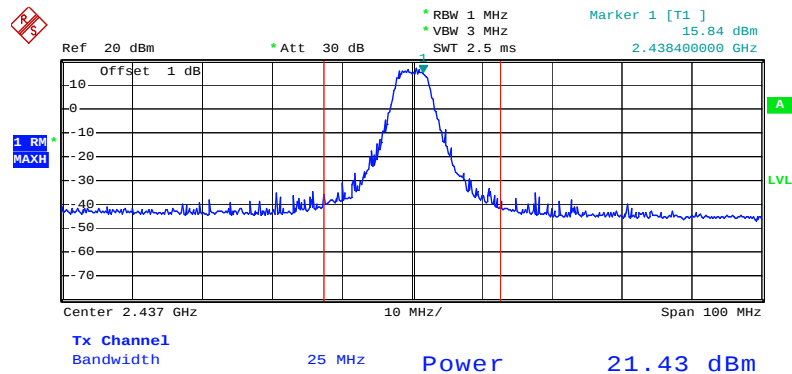
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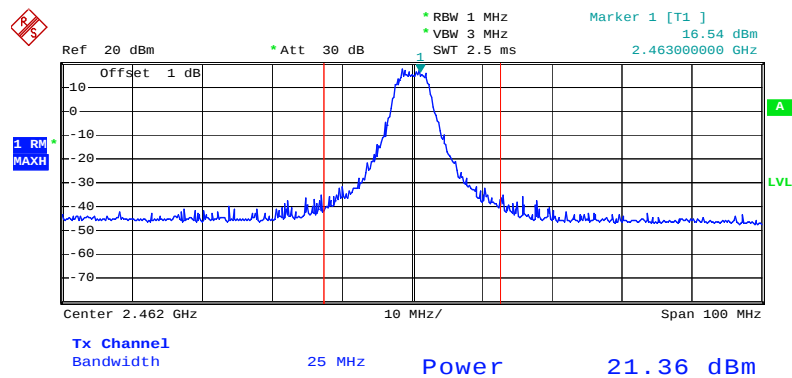
Date: 21.JUN.2010 19:45:58

Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 7-2 / 2437 MHz



Date: 21.JUN.2010 11:55:19

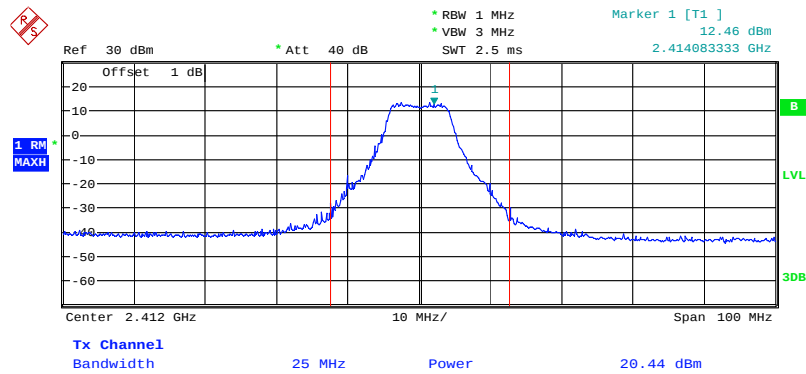
Conducted Output Power Plot on Configuration IEEE 802.11g 5MHz Ant. 7-2 / 2462 MHz



Date: 21.JUN.2010 11:57:39

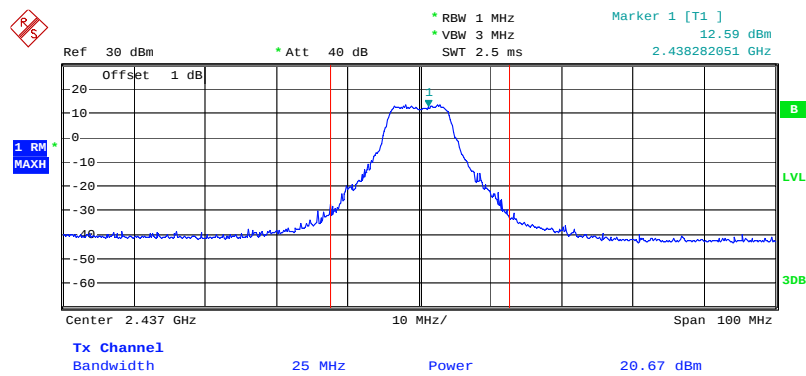
For Antenna 7 / Mode 14:

Conducted Output Power Plot on Configuration IEEE 802.11g 10MHz Ant. 7-1 / 2412 MHz



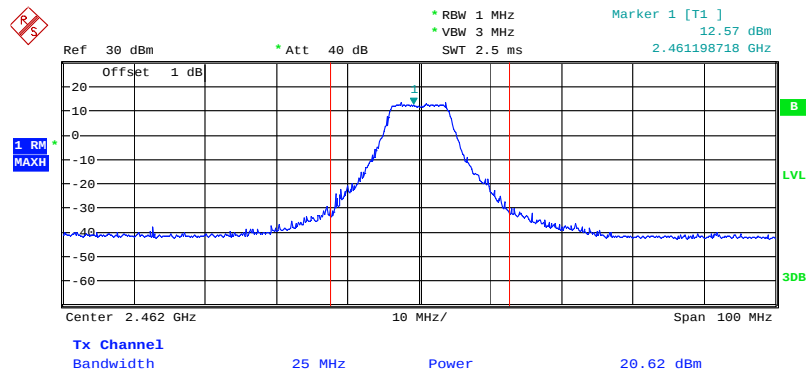
Date: 21.JUN.2010 19:33:27

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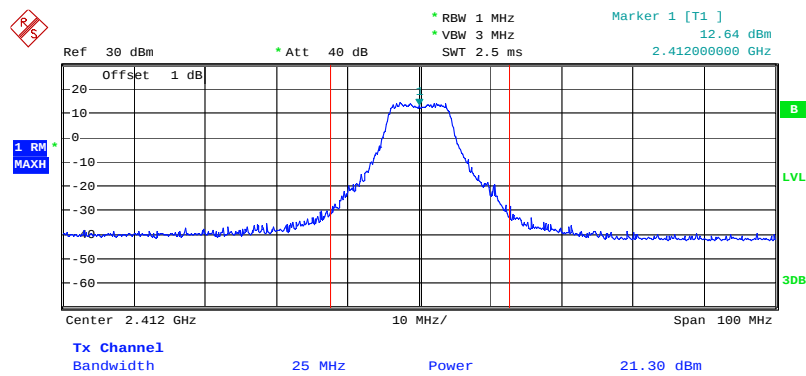
Date: 21.JUN.2010 19:38:30

Conducted Output Power Plot on Configuration IEEE 802.11g 10MHz Ant. 7-1 / 2462 MHz



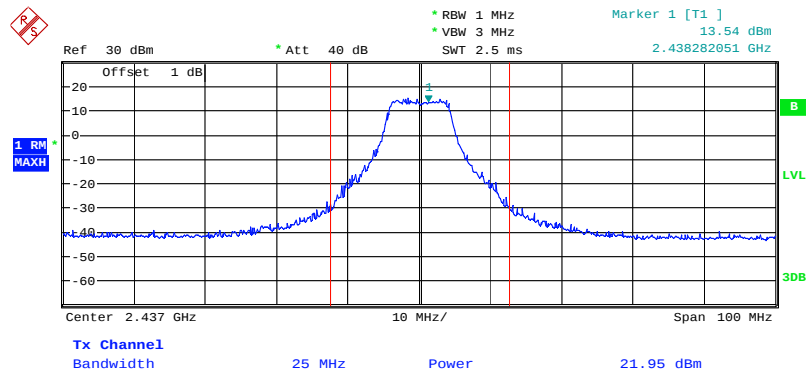
Date: 21.JUN.2010 19:40:02

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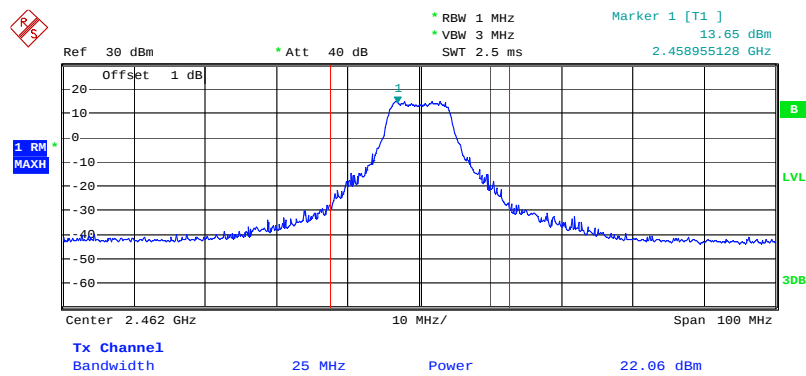
Date: 21.JUN.2010 19:35:01

Conducted Output Power Plot on Configuration IEEE 802.11g 10MHz Ant. 7-2 / 2437 MHz



Date: 21.JUN.2010 19:37:00

Conducted Output Power Plot on Configuration IEEE 802.11g 10MHz Ant. 7-2 / 2462 MHz



Date: 21.JUN.2010 19:40:51

4.2. Power Spectral Density Measurement

4.2.1. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

4.2.2. Measuring Instruments and Setting

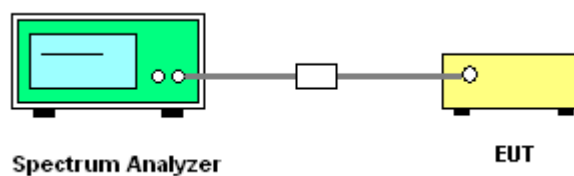
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	30 kHz
RB	3 kHz
VB	30 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	10s

4.2.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. Set RBW of spectrum analyzer to 3kHz and VBW to 30kHz. Set Detector to Peak, Trace to Max Hold.
3. Mark the frequency with maximum peak power as the center of the display of the spectrum.
4. Set the span to 30kHz and the sweep time to 10s and record the maximum peak value.
5. Measuring multiple antennas, the connector is required to link with spectrum analyzer through a combiner.

4.2.4. Test Setup Layout



4.2.5. Test Deviation

There is no deviation with the original standard.

4.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.2.7. Test Result of Power Spectral Density

For Antenna 1 / Mode 1:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a 5MHz / Antenna 1

Configuration IEEE 802.11a Ant. 1-1 + Ant. 1-2

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	4.56	8.00	Complies
157	5785 MHz	4.36	8.00	Complies
165	5825 MHz	2.76	8.00	Complies

For Antenna 1 / Mode 2:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a 10MHz / Antenna 1

Configuration IEEE 802.11a Ant. 1-1 + Ant. 1-2

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-1.57	8.00	Complies
157	5785 MHz	-2.56	8.00	Complies
165	5825 MHz	-2.39	8.00	Complies

For Antenna 2 / Mode 3:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a 5MHz / Antenna 2

Configuration IEEE 802.11a Ant. 2-1 + Ant. 2-2

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	4.56	8.00	Complies
157	5785 MHz	4.36	8.00	Complies
165	5825 MHz	2.76	8.00	Complies

For Antenna 2 / Mode 4:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a 10MHz / Antenna 2

Configuration IEEE 802.11a Ant. 2-1 + Ant. 2-2

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-1.57	8.00	Complies
157	5785 MHz	-2.56	8.00	Complies
165	5825 MHz	-2.39	8.00	Complies

For Antenna 3 / Mode 5:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a 5MHz / Antenna 3

Configuration IEEE 802.11a Ant. 3-1 + Ant. 3-2

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	4.56	8.00	Complies
157	5785 MHz	4.36	8.00	Complies
165	5825 MHz	2.76	8.00	Complies

For Antenna 3 / Mode 6:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a 10MHz / Antenna 3

Configuration IEEE 802.11a Ant. 3-1 + Ant. 3-2

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-1.57	8.00	Complies
157	5785 MHz	-2.56	8.00	Complies
165	5825 MHz	-2.39	8.00	Complies

For Antenna 4 / Mode 7:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/g 5MHz / Antenna 4

For 2.4GHz Band:

Configuration IEEE 802.11g Ant. 4-1 + Ant. 4-2

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	4.65	8.00	Complies
6	2437 MHz	6.41	8.00	Complies
11	2462 MHz	5.55	8.00	Complies

For 5GHz Band:

Configuration IEEE 802.11a Ant. 4-1 + Ant. 4-2

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	4.56	8.00	Complies
157	5785 MHz	4.36	8.00	Complies
165	5825 MHz	2.76	8.00	Complies

For Antenna 4 / Mode 8:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/g 10MHz / Antenna 4

For 2.4GHz Band:

Configuration IEEE 802.11g Ant. 4-1 + Ant. 4-2

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	3.60	8.00	Complies
6	2437 MHz	3.42	8.00	Complies
11	2462 MHz	2.72	8.00	Complies

For 5GHz Band:

Configuration IEEE 802.11a Ant. 4-1 + Ant. 4-2

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-1.57	8.00	Complies
157	5785 MHz	-2.56	8.00	Complies
165	5825 MHz	-2.39	8.00	Complies

For Antenna 5 / Mode 9:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g 5MHz / Antenna 5

Configuration IEEE 802.11g Ant. 5-1 + Ant. 5-2

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	4.65	8.00	Complies
6	2437 MHz	5.98	8.00	Complies
11	2462 MHz	5.25	8.00	Complies

For Antenna 5 / Mode 10:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g 10MHz / Antenna 5

Configuration IEEE 802.11g Ant. 5-1 + Ant. 5-2

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	3.60	8.00	Complies
6	2437 MHz	3.42	8.00	Complies
11	2462 MHz	2.72	8.00	Complies

For Antenna 6 / Mode 11:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g 5MHz / Antenna 6

Configuration IEEE 802.11g Ant. 6-1 + Ant. 6-2

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	4.65	8.00	Complies
6	2437 MHz	6.41	8.00	Complies
11	2462 MHz	5.55	8.00	Complies

For Antenna 6 / Mode 12:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g 10MHz / Antenna 6

Configuration IEEE 802.11g Ant. 6-1 + Ant. 6-2

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	3.60	8.00	Complies
6	2437 MHz	3.42	8.00	Complies
11	2462 MHz	2.72	8.00	Complies

For Antenna 7 / Mode 13:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g 5MHz / Antenna 7

Configuration IEEE 802.11g Ant. 7-1 + Ant. 7-2

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	4.65	8.00	Complies
6	2437 MHz	6.41	8.00	Complies
11	2462 MHz	5.55	8.00	Complies

For Antenna 7 / Mode 14:

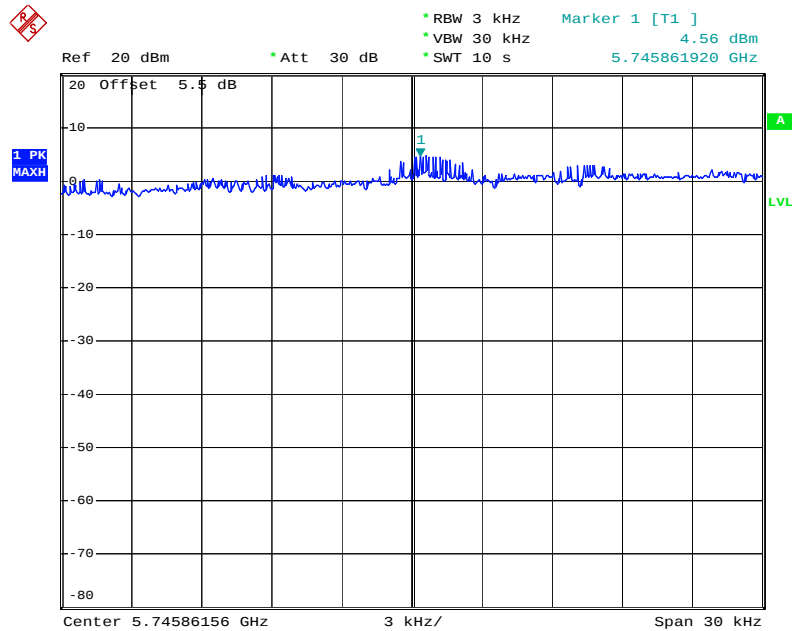
Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g 10MHz / Antenna 7

Configuration IEEE 802.11g Ant. 7-1 + Ant. 7-2

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	3.60	8.00	Complies
6	2437 MHz	3.42	8.00	Complies
11	2462 MHz	2.72	8.00	Complies

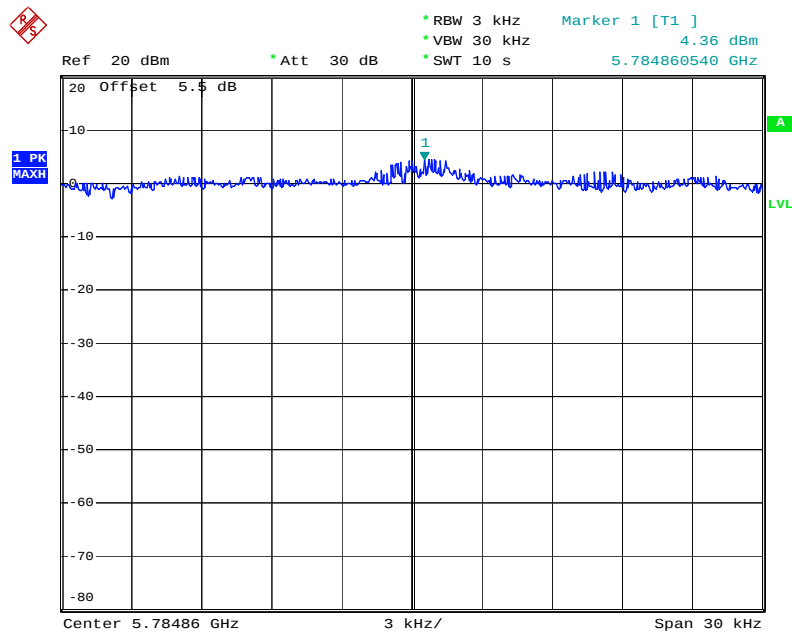
For Antenna 1 / Mode 1:

Power Density Plot on Configuration IEEE 802.11a 5MHz Ant. 1-1 + Ant. 1-2 / 5745 MHz



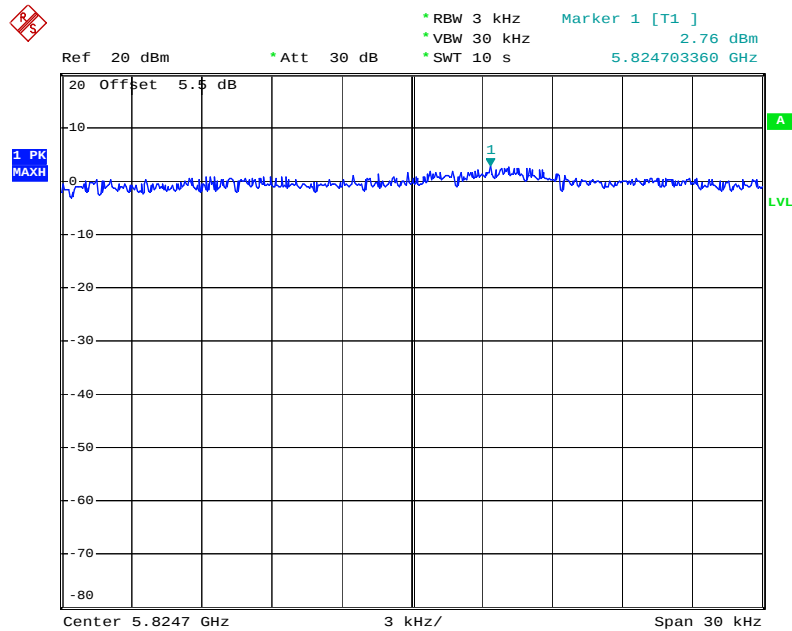
Date: 22.JUN.2010 15:06:01

Power Density Plot on Configuration IEEE 802.11a 5MHz Ant. 1-1 + Ant. 1-2 / 5785 MHz



Date: 22.JUN.2010 15:08:55

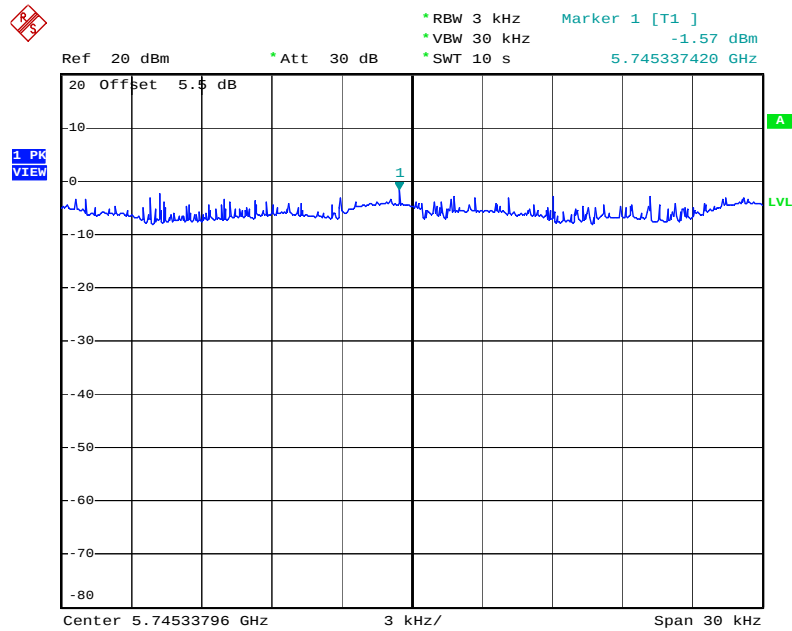
Power Density Plot on Configuration IEEE 802.11a 5MHz Ant. 1-1 + Ant. 1-2 / 5825 MHz



Date: 22.JUN.2010 15:11:37

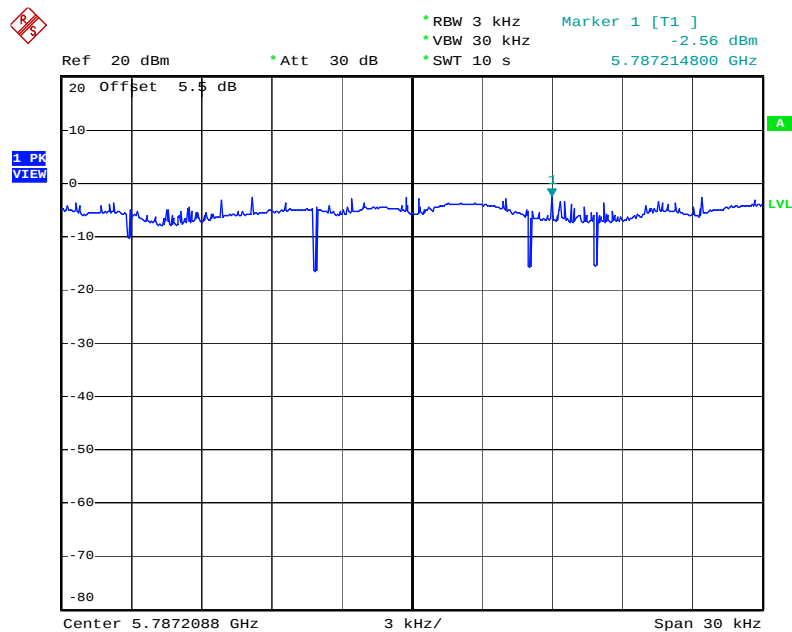
For Antenna 1 / Mode 2:

Power Density Plot on Configuration IEEE 802.11a 10MHz Ant. 1-1 + Ant. 1-2 / 5745 MHz



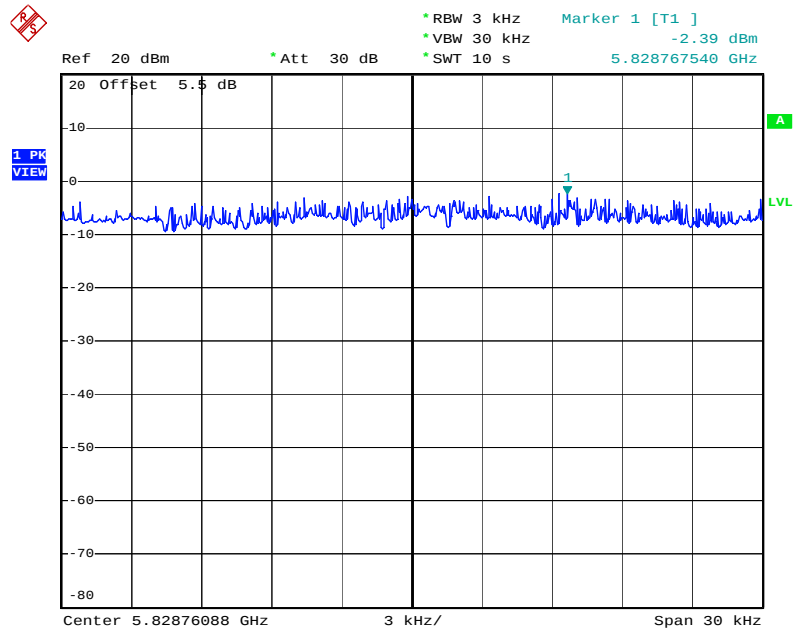
Date: 22.JUN.2010 16:21:41

Power Density Plot on Configuration IEEE 802.11a 10MHz Ant. 1-1 + Ant. 1-2 / 5785 MHz



Date: 22.JUN.2010 16:23:43

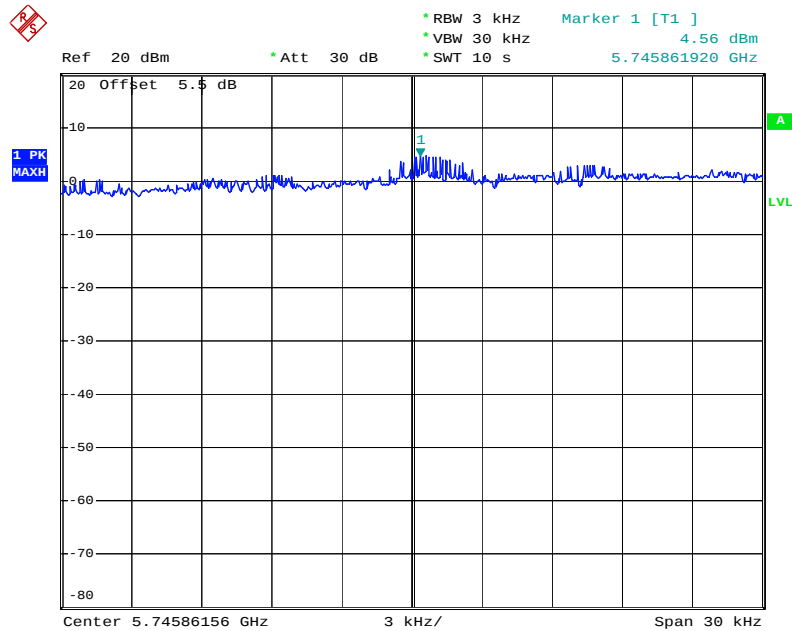
Power Density Plot on Configuration IEEE 802.11a 10MHz Ant. 1-1 + Ant. 1-2 / 5825 MHz



Date: 22.JUN.2010 16:25:52

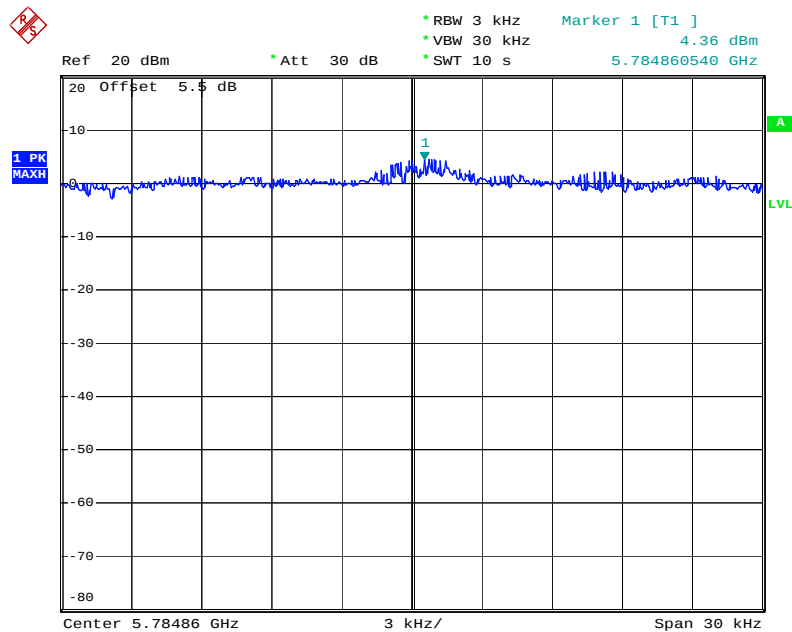
For Antenna 2 / Mode 3:

Power Density Plot on Configuration IEEE 802.11a 5MHz Ant. 2-1 + Ant. 2-2 / 5745 MHz



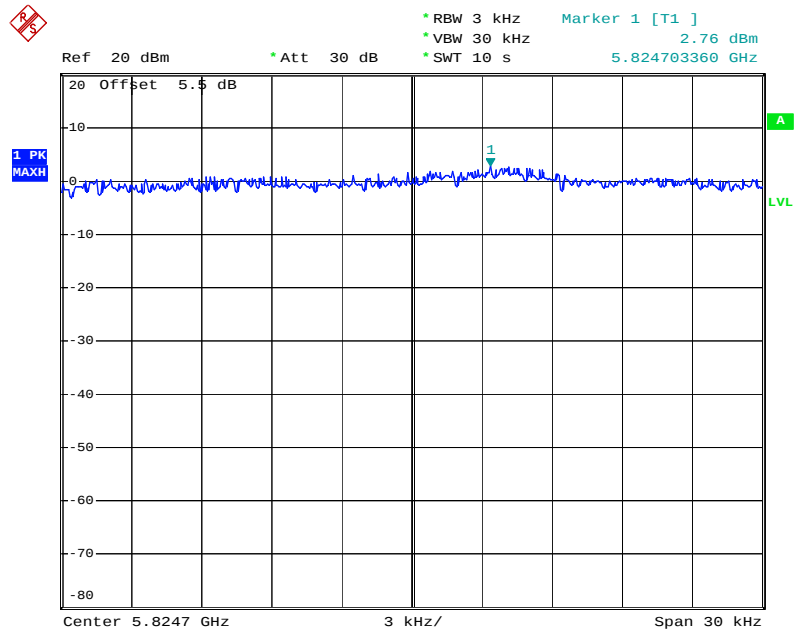
Date: 22.JUN.2010 15:06:01

Power Density Plot on Configuration IEEE 802.11a 5MHz Ant. 2-1 + Ant. 2-2 / 5785 MHz



Date: 22.JUN.2010 15:08:55

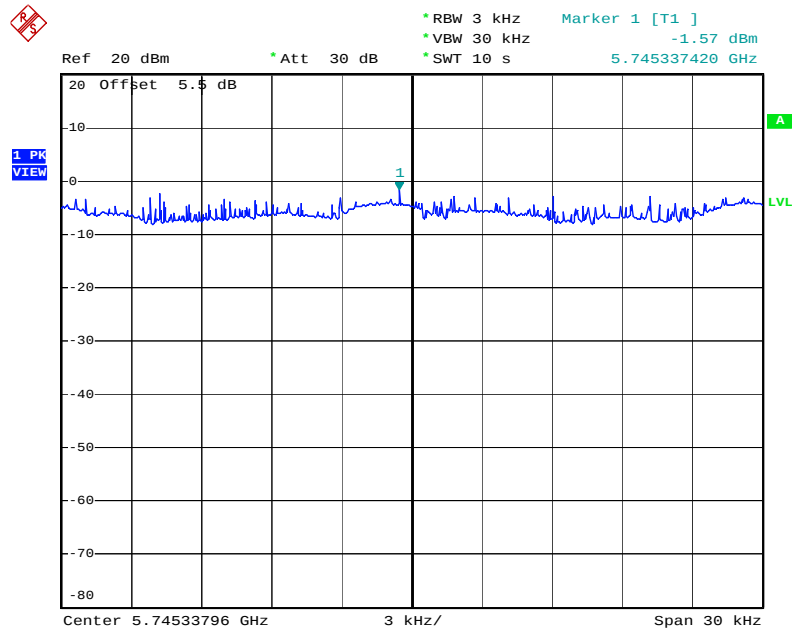
Power Density Plot on Configuration IEEE 802.11a 5MHz Ant. 2-1 + Ant. 2-2 / 5825 MHz



Date: 22.JUN.2010 15:11:37

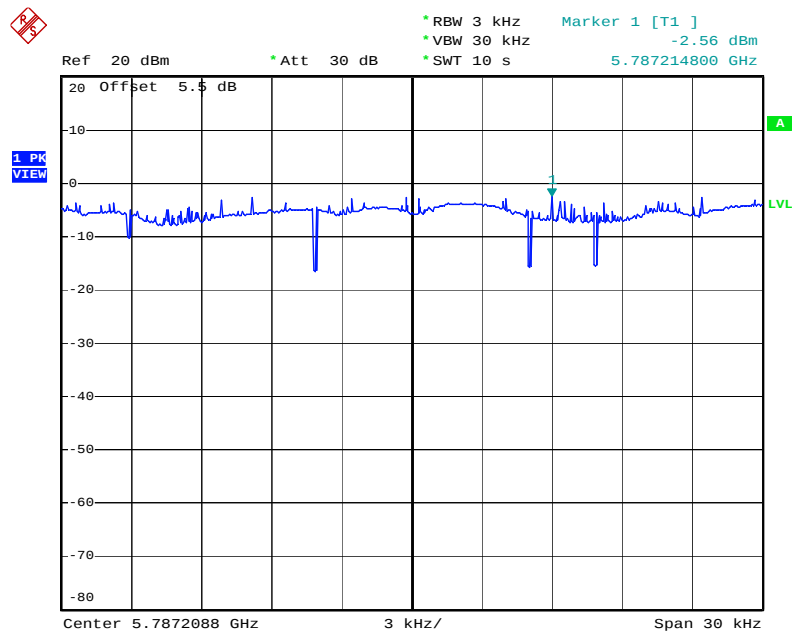
For Antenna 2 / Mode 4:

Power Density Plot on Configuration IEEE 802.11a 10MHz Ant. 2-1 + Ant. 2-2 / 5745 MHz



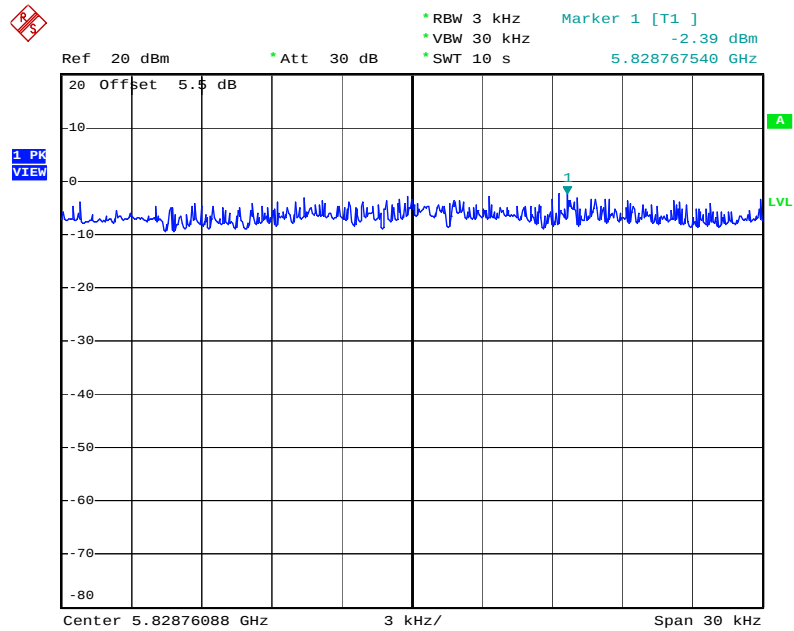
Date: 22.JUN.2010 16:21:41

Power Density Plot on Configuration IEEE 802.11a 10MHz Ant. 2-1 + Ant. 2-2 / 5785 MHz



Date: 22.JUN.2010 16:23:43

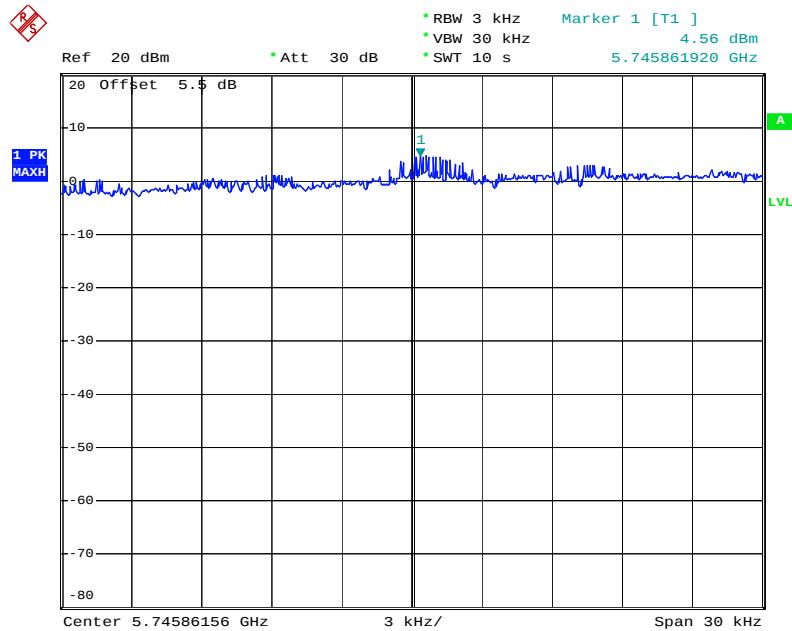
Power Density Plot on Configuration IEEE 802.11a 10MHz Ant. 2-1 + Ant. 2-2 / 5825 MHz



Date: 22.JUN.2010 16:25:52

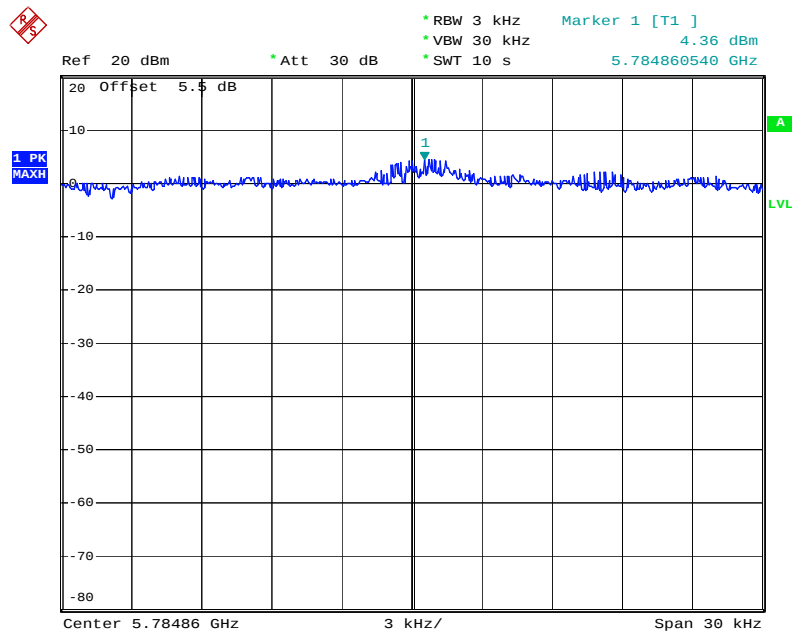
For Antenna 3 / Mode 5:

Power Density Plot on Configuration IEEE 802.11a 5MHz Ant. 3-1 + Ant. 3-2 / 5745 MHz



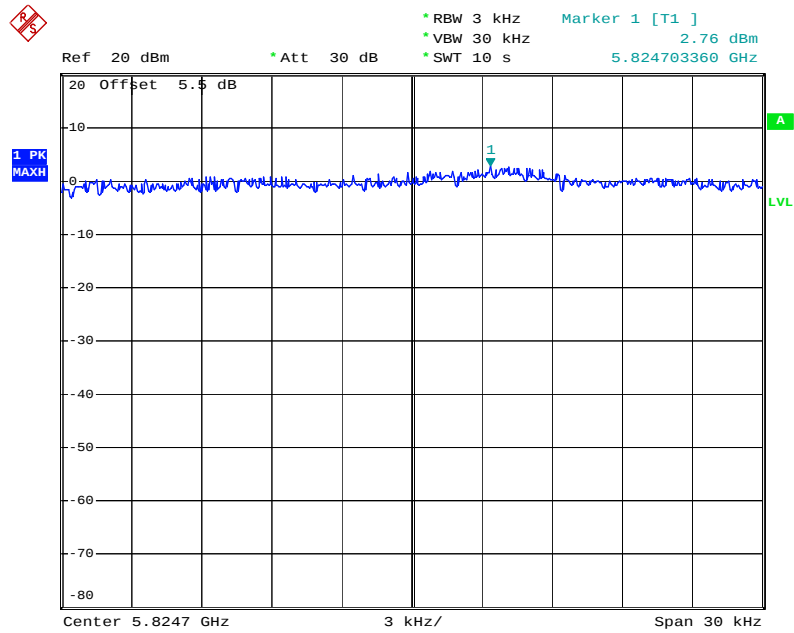
Date: 22.JUN.2010 15:06:01

Power Density Plot on Configuration IEEE 802.11a 5MHz Ant. 3-1 + Ant. 3-2 / 5785 MHz



Date: 22.JUN.2010 15:08:55

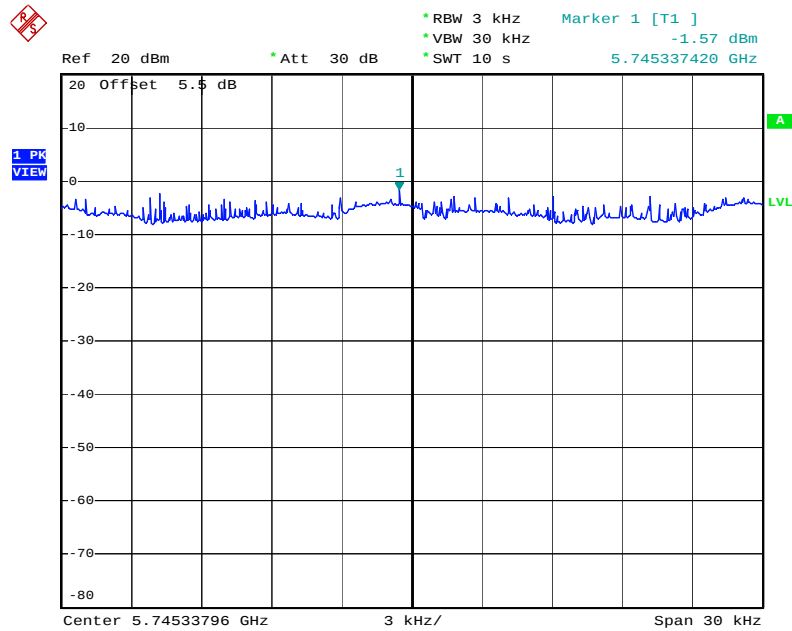
Power Density Plot on Configuration IEEE 802.11a 5MHz Ant. 3-1 + Ant. 3-2 / 5825 MHz



Date: 22.JUN.2010 15:11:37

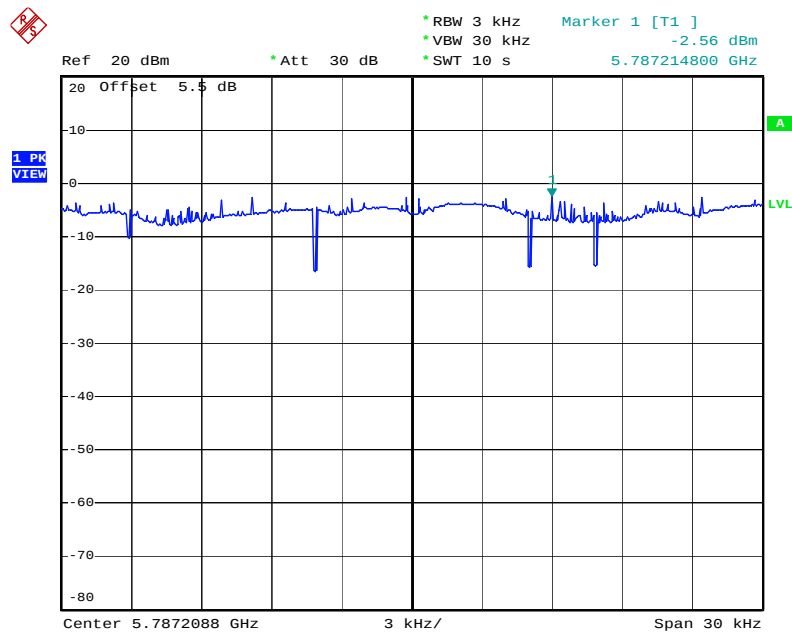
For Antenna 3 / Mode 6:

Power Density Plot on Configuration IEEE 802.11a 10MHz Ant. 3-1 + Ant. 3-2 / 5745 MHz



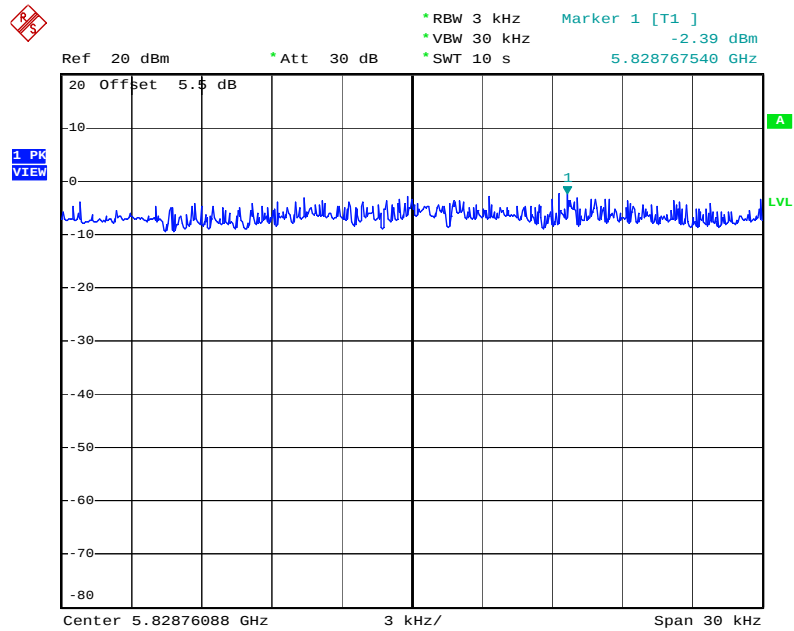
Date: 22.JUN.2010 16:21:41

Power Density Plot on Configuration IEEE 802.11a 10MHz Ant. 3-1 + Ant. 3-2 / 5785 MHz



Date: 22.JUN.2010 16:23:43

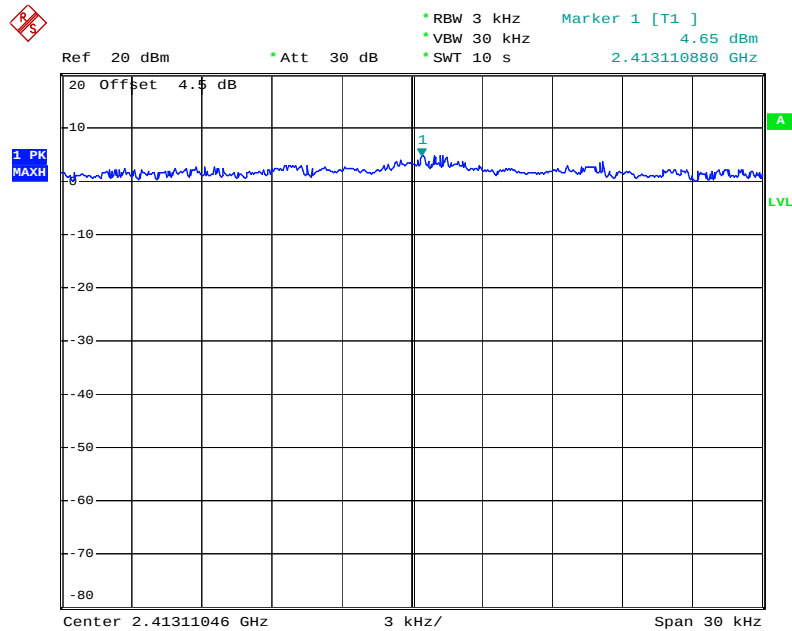
Power Density Plot on Configuration IEEE 802.11a 10MHz Ant. 3-1 + Ant. 3-2 / 5825 MHz



Date: 22.JUN.2010 16:25:52

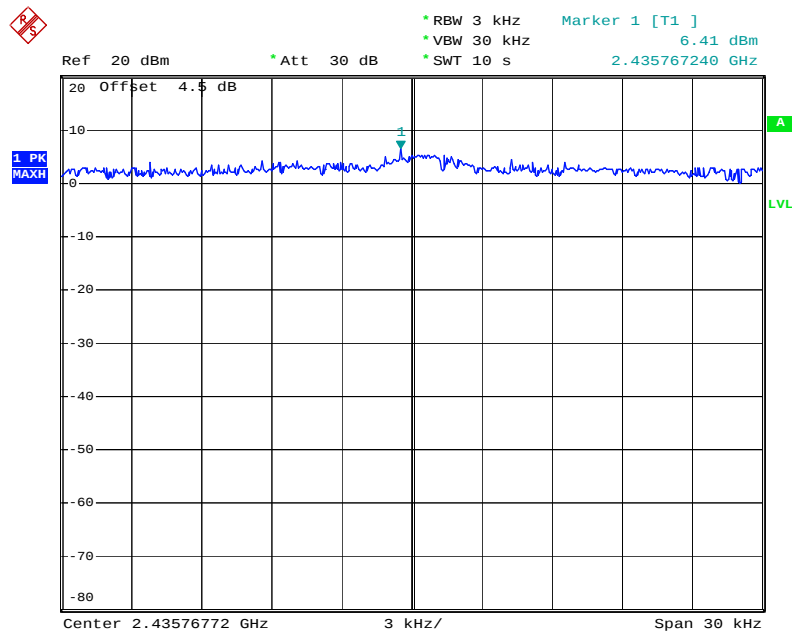
For Antenna 4 / Mode 7:

Power Density Plot on Configuration IEEE 802.11g 5MHz Ant. 4-1 + Ant. 4-2 / 2412 MHz



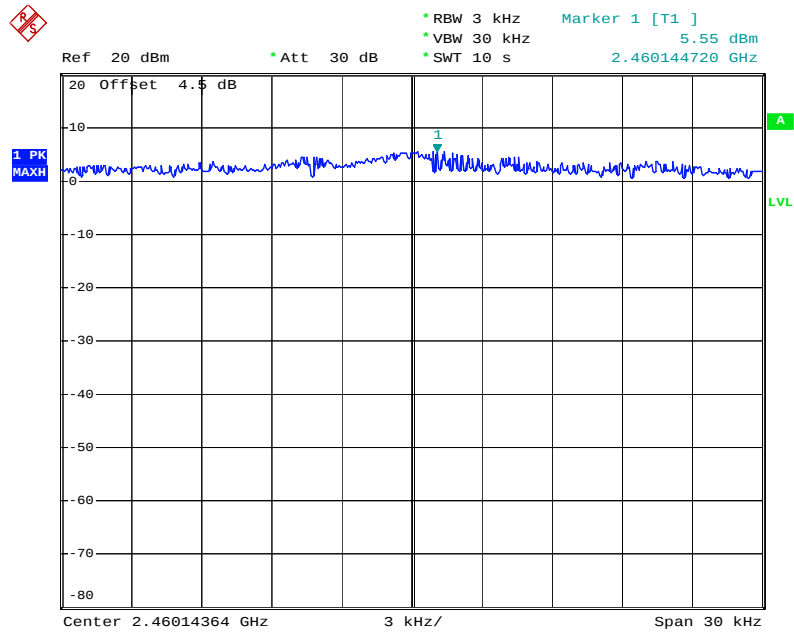
Date: 22.JUN.2010 17:14:47

Power Density Plot on Configuration IEEE 802.11g 5MHz Ant. 4-1 + Ant. 4-2 / 2437 MHz



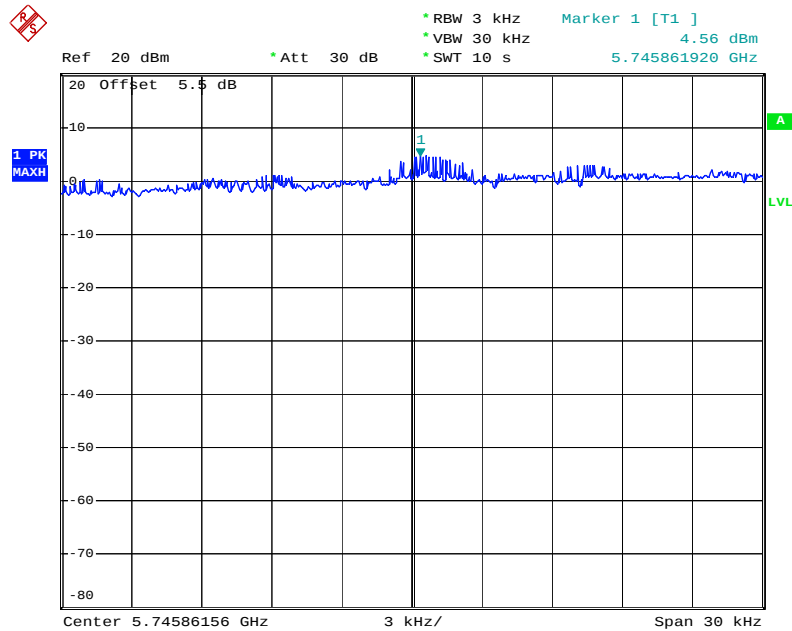
Date: 22.JUN.2010 17:11:35

Power Density Plot on Configuration IEEE 802.11g 5MHz Ant. 4-1 + Ant. 4-2 / 2462 MHz



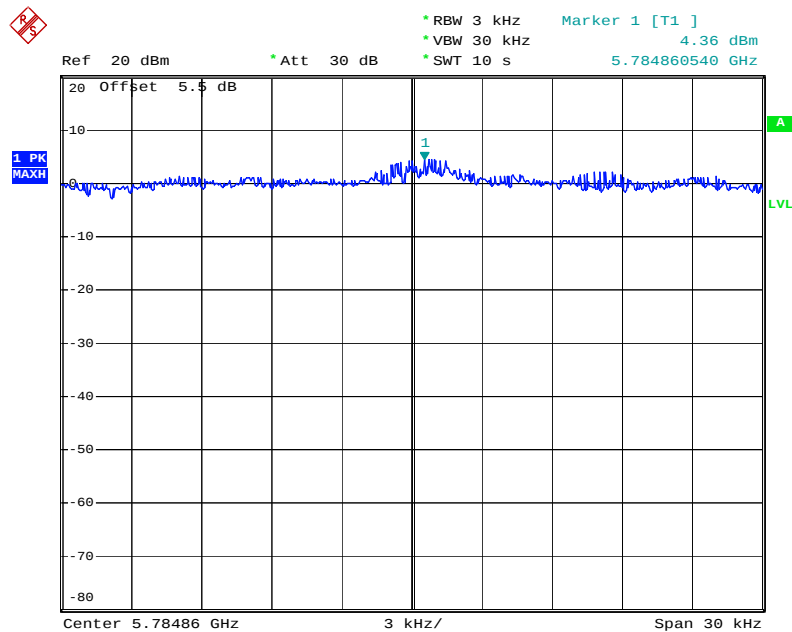
Date: 22.JUN.2010 17:08:39

Power Density Plot on Configuration IEEE 802.11a 5MHz Ant. 4-1 + Ant. 4-2 / 5745 MHz



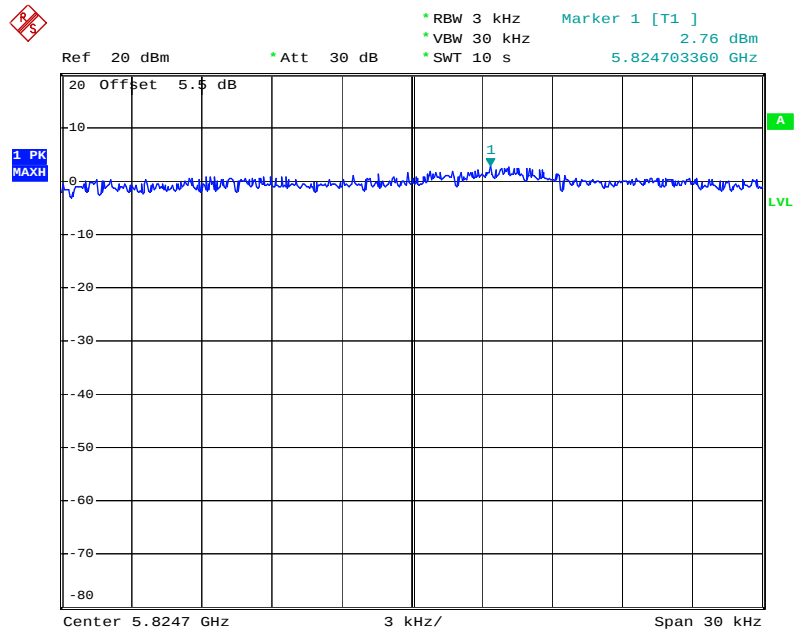
Date: 22.JUN.2010 15:06:01

Power Density Plot on Configuration IEEE 802.11a 5MHz Ant. 4-1 + Ant. 4-2 / 5785 MHz



Date: 22.JUN.2010 15:08:55

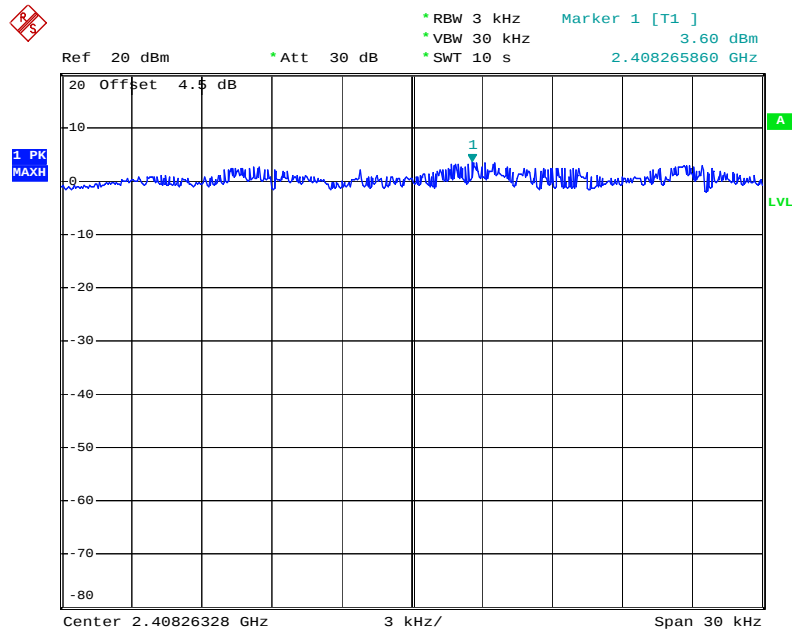
Power Density Plot on Configuration IEEE 802.11a 5MHz Ant. 4-1 + Ant. 4-2 / 5825 MHz



Date: 22.JUN.2010 15:11:37

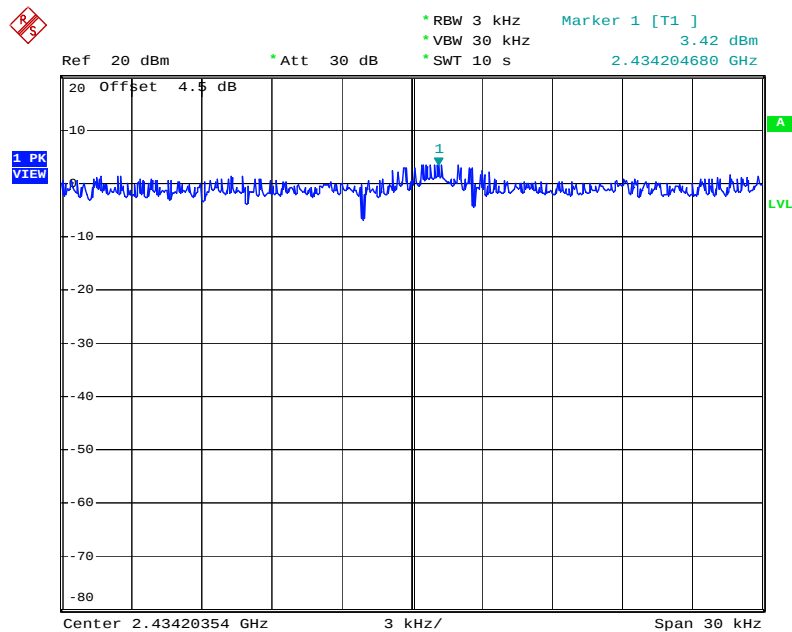
For Antenna 4 / Mode 8:

Power Density Plot on Configuration IEEE 802.11g 10MHz Ant. 4-1 + Ant. 4-2 / 2412 MHz



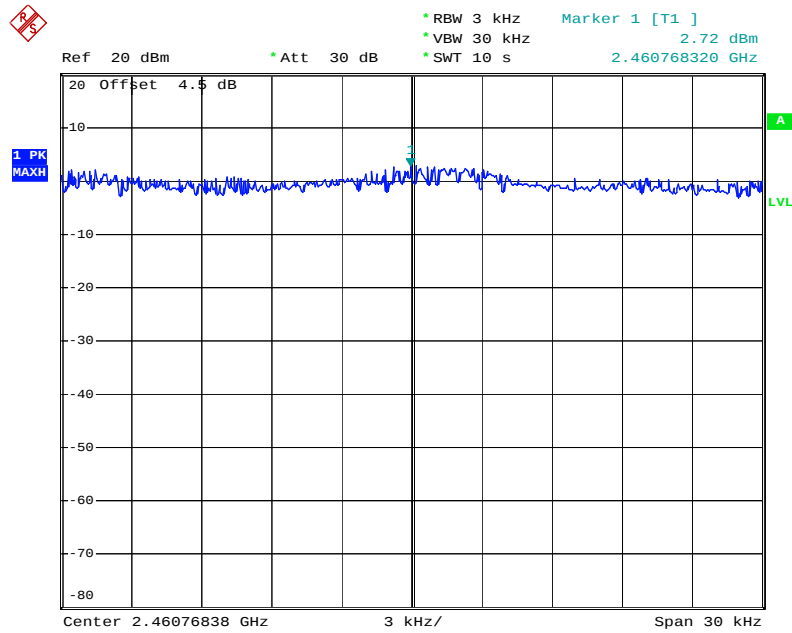
Date: 22.JUN.2010 17:53:44

Power Density Plot on Configuration IEEE 802.11g 10MHz Ant. 4-1 + Ant. 4-2 / 2437 MHz



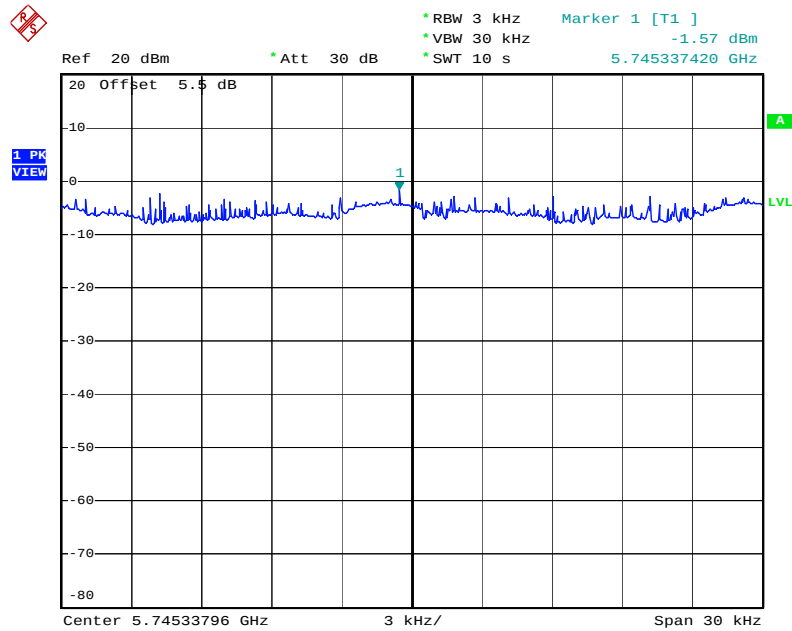
Date: 22.JUN.2010 17:56:03

Power Density Plot on Configuration IEEE 802.11g 10MHz Ant. 4-1 + Ant. 4-2 / 2462 MHz



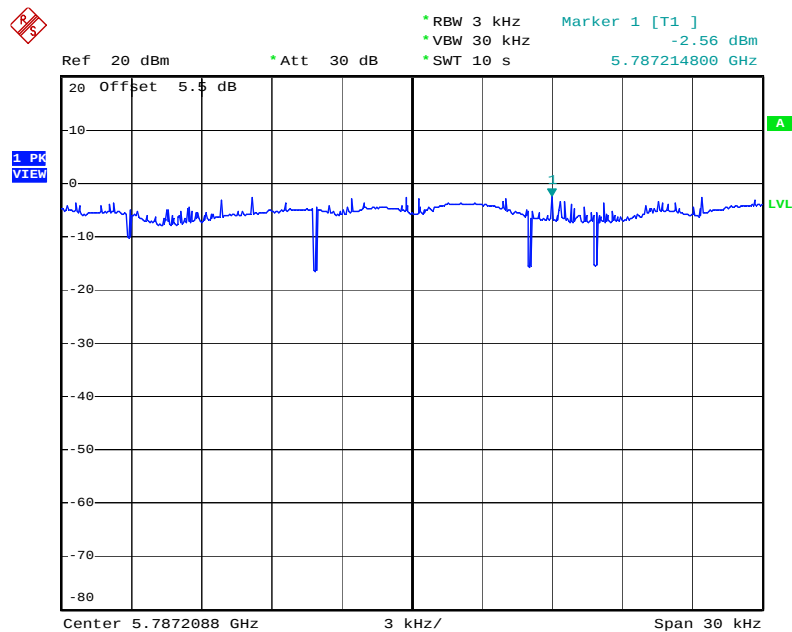
Date: 22.JUN.2010 17:59:00

Power Density Plot on Configuration IEEE 802.11a 10MHz Ant. 4-1 + Ant. 4-2 / 5745 MHz



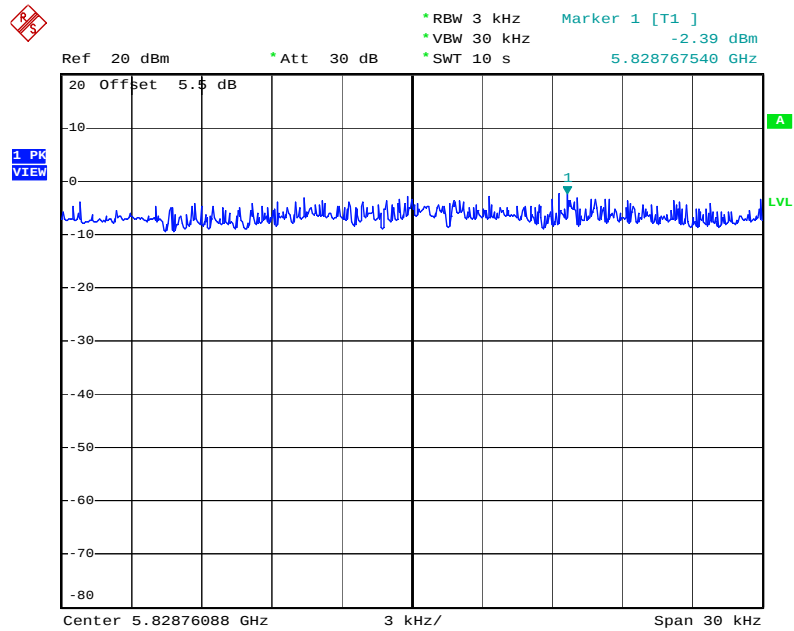
Date: 22.JUN.2010 16:21:41

Power Density Plot on Configuration IEEE 802.11a 10MHz Ant. 4-1 + Ant. 4-2 / 5785 MHz



Date: 22.JUN.2010 16:23:43

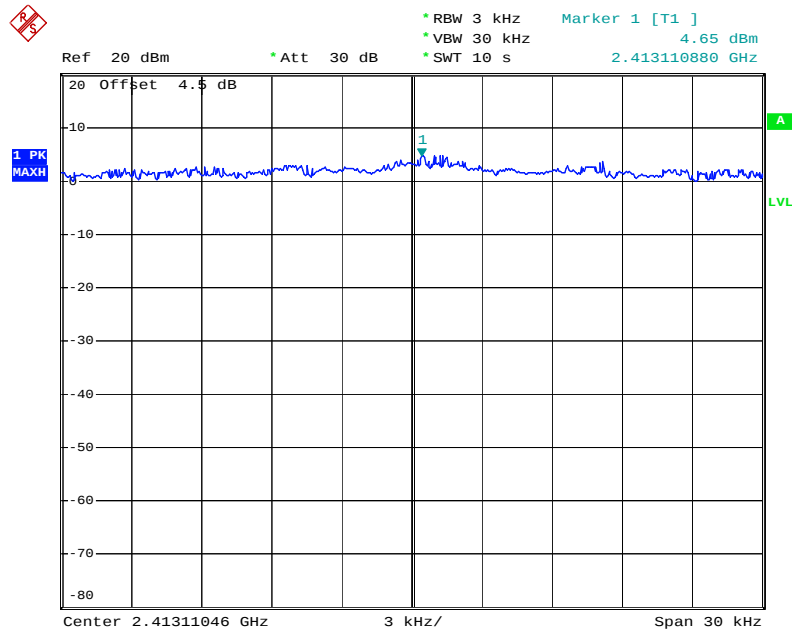
Power Density Plot on Configuration IEEE 802.11a 10MHz Ant. 4-1 + Ant. 4-2 / 5825 MHz



Date: 22.JUN.2010 16:25:52

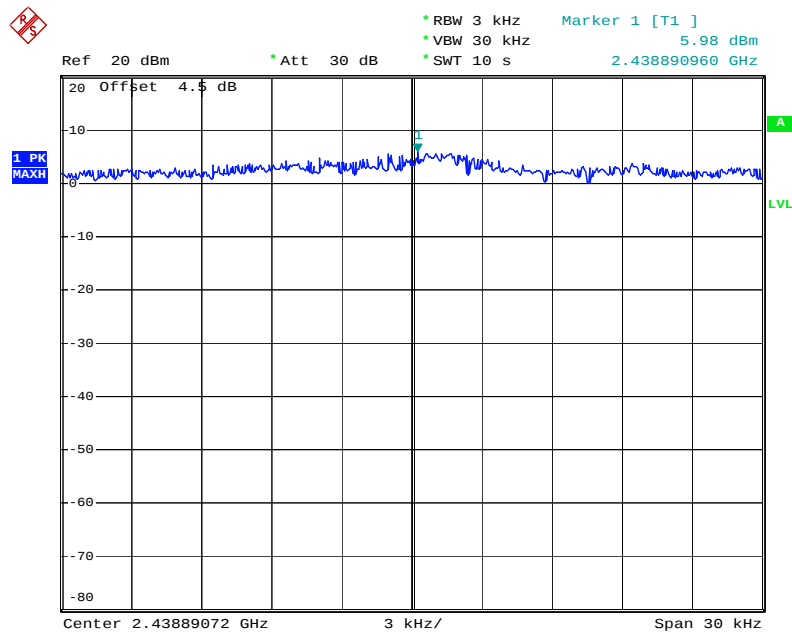
For Antenna 5 / Mode 9:

Power Density Plot on Configuration IEEE 802.11g 5MHz Ant. 5-1 + Ant. 5-2 / 2412 MHz



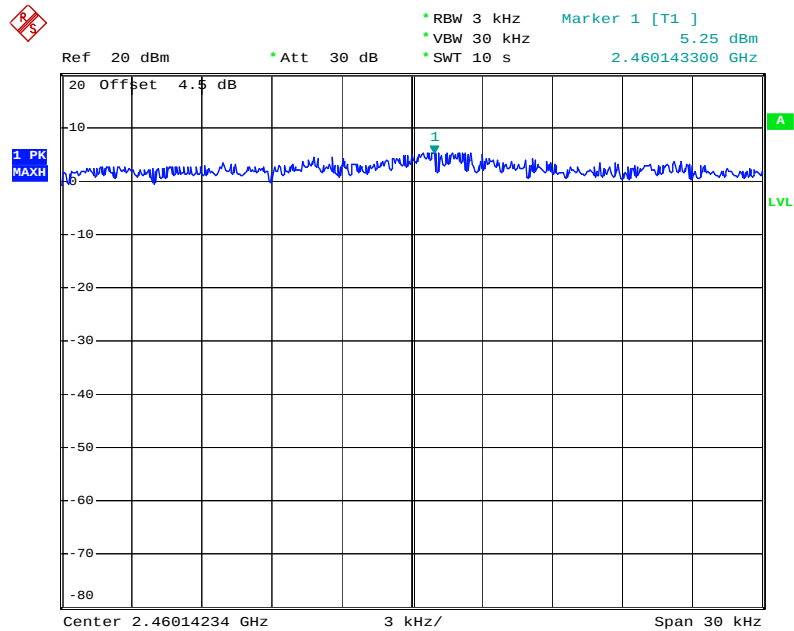
Date: 22.JUN.2010 17:14:47

Power Density Plot on Configuration IEEE 802.11g 5MHz Ant. 5-1 + Ant. 5-2 / 2437 MHz



Date: 22.JUN.2010 18:07:17

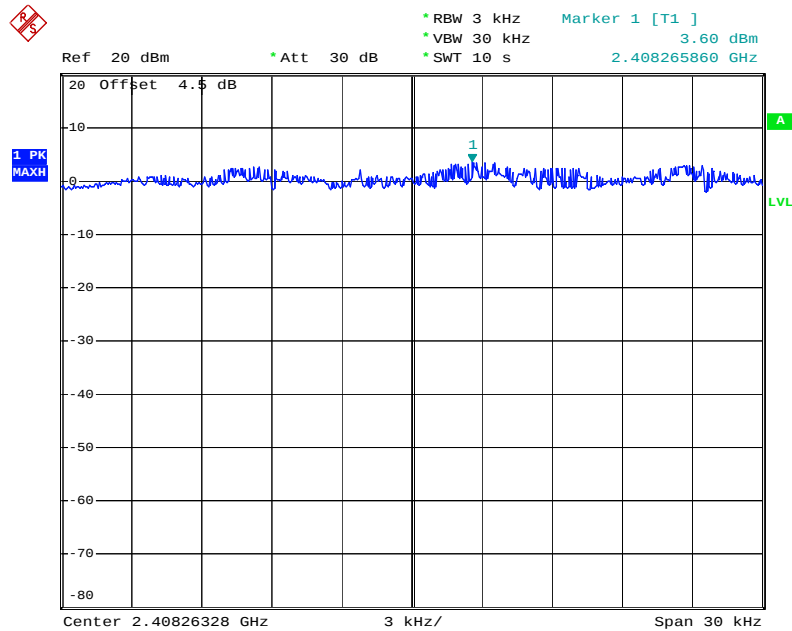
Power Density Plot on Configuration IEEE 802.11g 5MHz Ant. 5-1 + Ant. 5-2 / 2462 MHz



Date: 22.JUN.2010 18:09:50

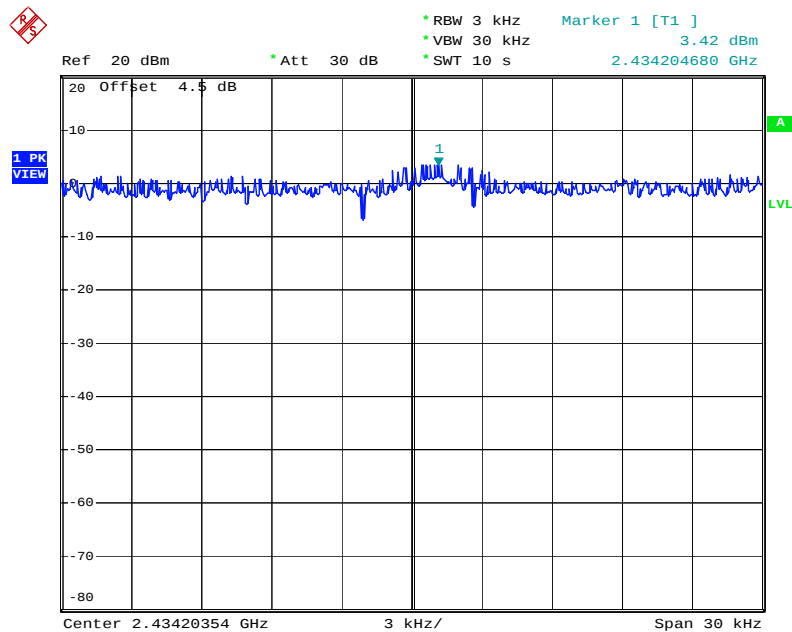
For Antenna 5 / Mode 10:

Power Density Plot on Configuration IEEE 802.11g 10MHz Ant. 5-1 + Ant. 5-2 / 2412 MHz



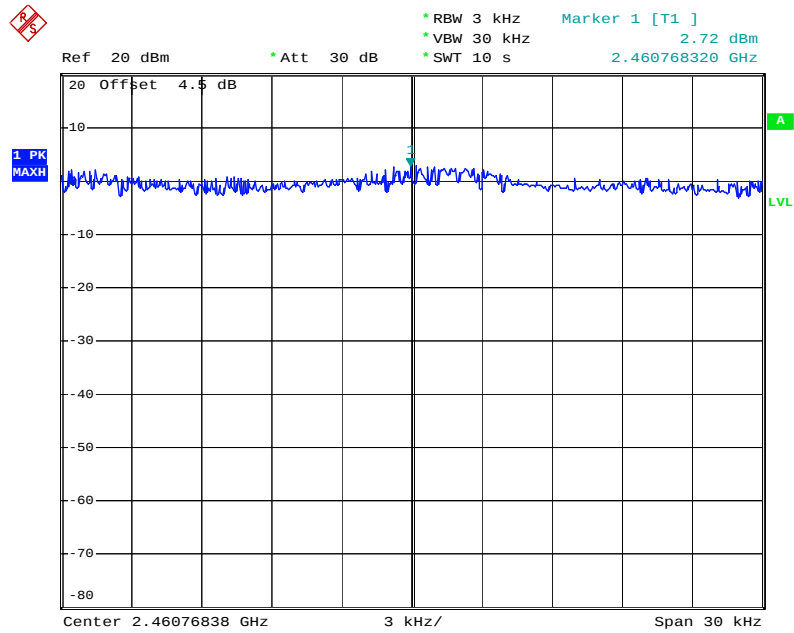
Date: 22.JUN.2010 17:53:44

Power Density Plot on Configuration IEEE 802.11g 10MHz Ant. 5-1 + Ant. 5-2 / 2437 MHz



Date: 22.JUN.2010 17:56:03

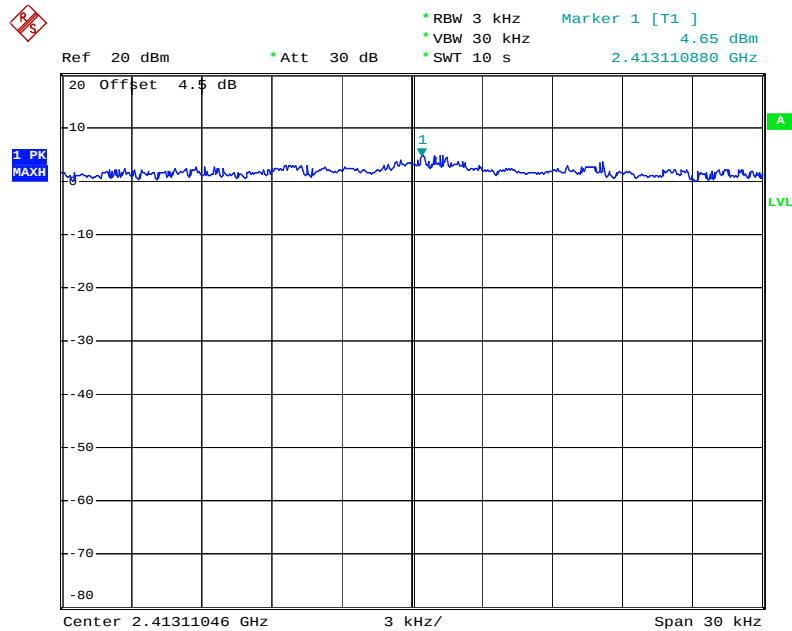
Power Density Plot on Configuration IEEE 802.11g 10MHz Ant. 5-1 + Ant. 5-2 / 2462 MHz



Date: 22.JUN.2010 17:59:00

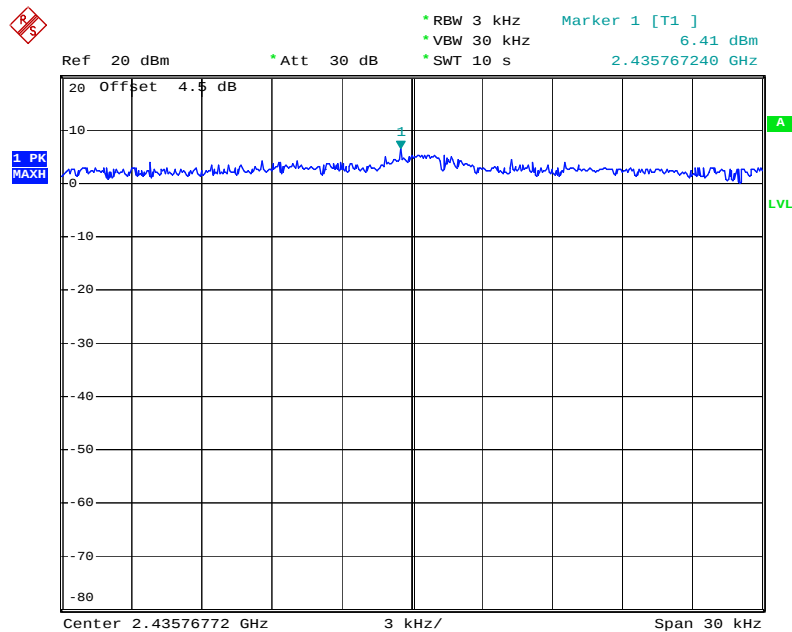
For Antenna 6 / Mode 11:

Power Density Plot on Configuration IEEE 802.11g 5MHz Ant. 6-1 + Ant. 6-2 / 2412 MHz



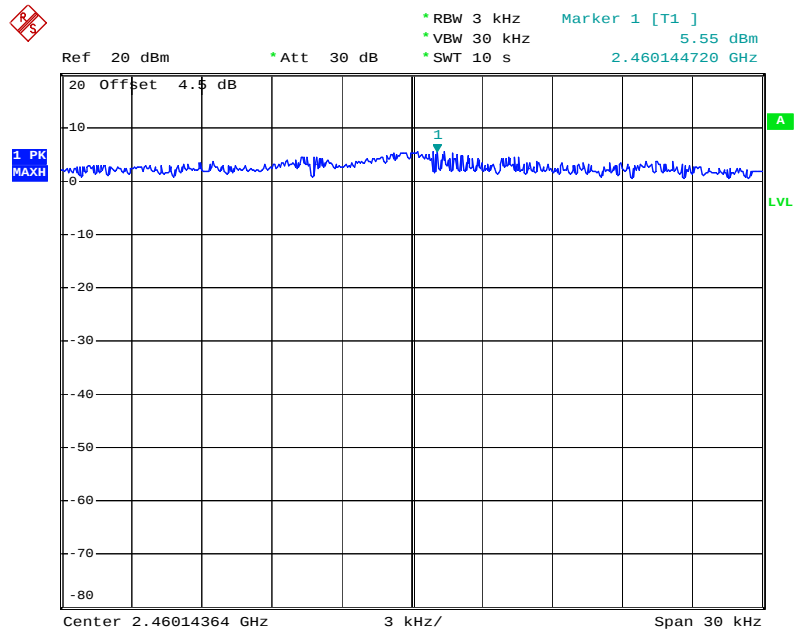
Date: 22.JUN.2010 17:14:47

Power Density Plot on Configuration IEEE 802.11g 5MHz Ant. 6-1 + Ant. 6-2 / 2437 MHz



Date: 22.JUN.2010 17:11:35

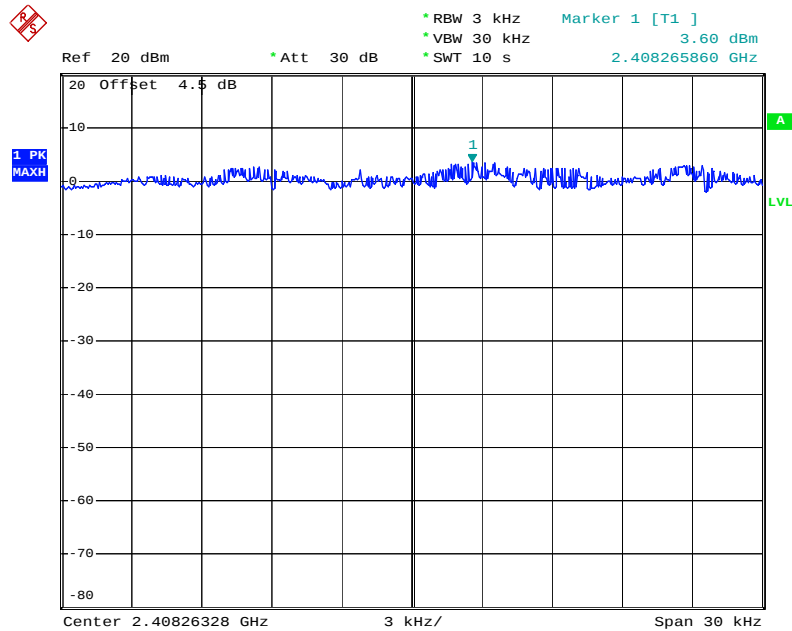
Power Density Plot on Configuration IEEE 802.11g 5MH Ant. 6-1 + Ant. 6-2 / 2462 MHz



Date: 22.JUN.2010 17:08:39

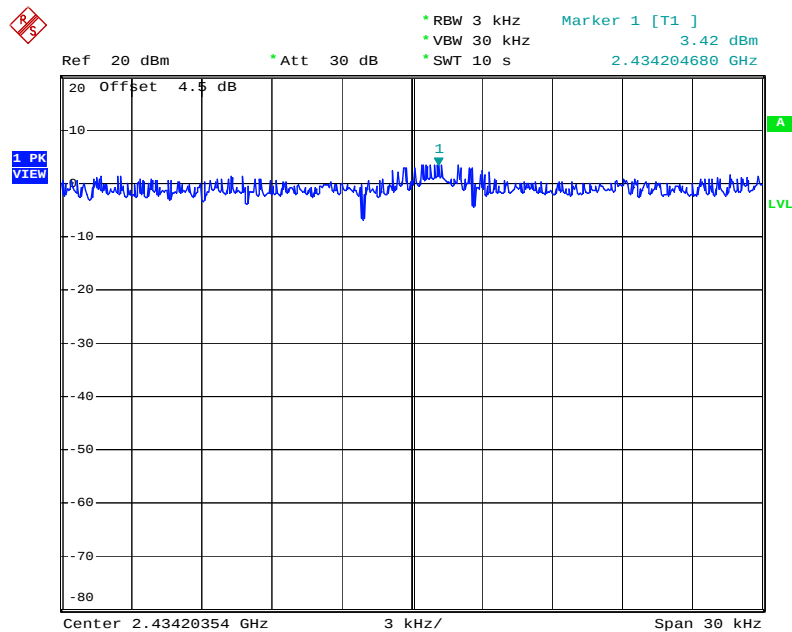
For Antenna 6 / Mode 12:

Power Density Plot on Configuration IEEE 802.11g 10MHz Ant. 6-1 + Ant. 6-2 / 2412 MHz



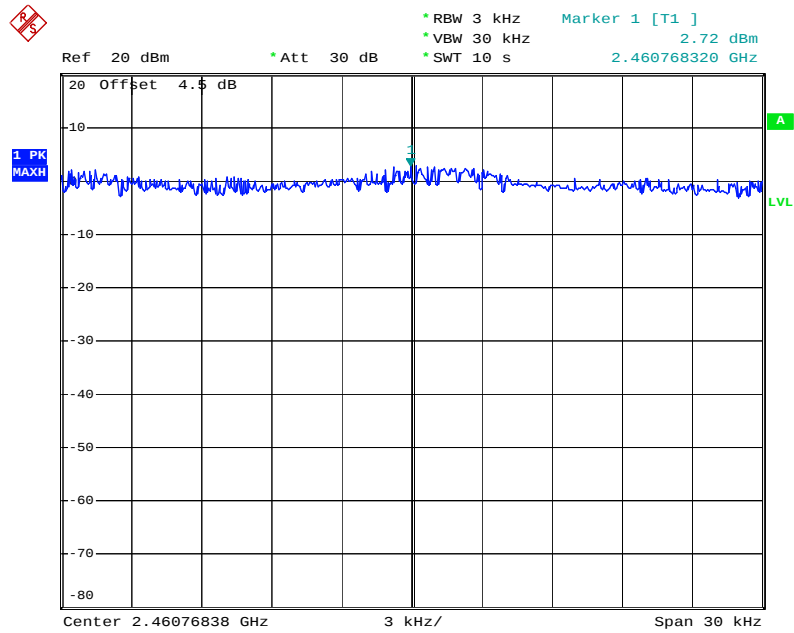
Date: 22.JUN.2010 17:53:44

Power Density Plot on Configuration IEEE 802.11g 10MHz Ant. 6-1 + Ant. 6-2 / 2437 MHz



Date: 22.JUN.2010 17:56:03

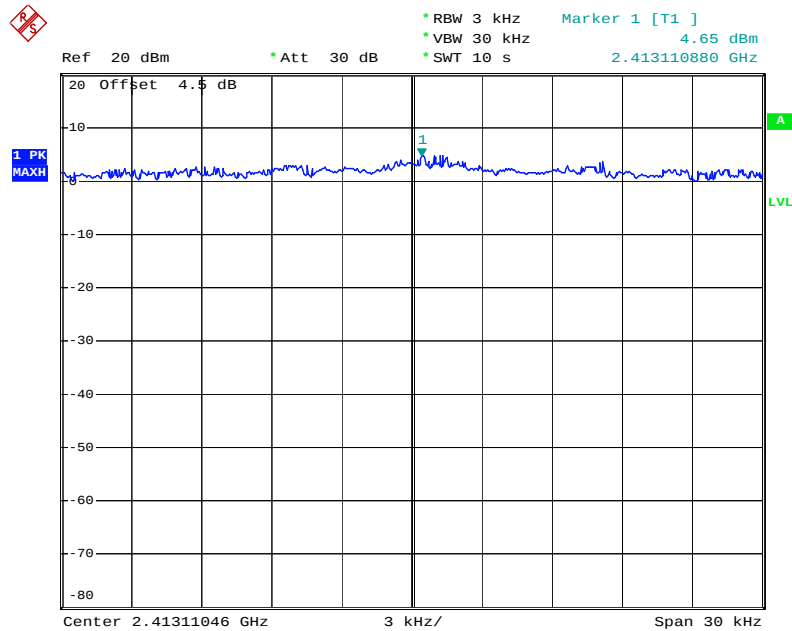
Power Density Plot on Configuration IEEE 802.11g 10MH Ant. 6-1 + Ant. 6-2 / 2462 MHz



Date: 22.JUN.2010 17:59:00

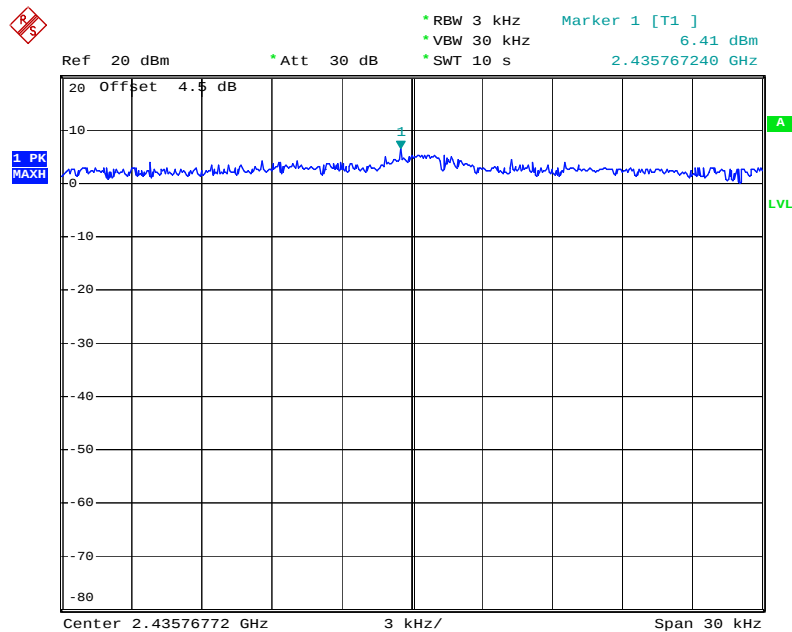
For Antenna 7 / Mode 13:

Power Density Plot on Configuration IEEE 802.11g 5MHz Ant. 7-1 + Ant. 7-2 / 2412 MHz



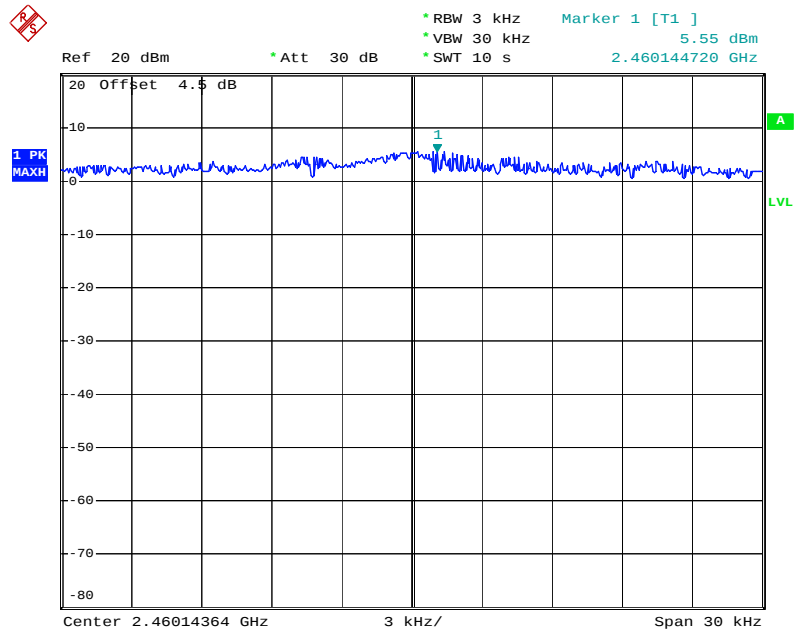
Date: 22.JUN.2010 17:14:47

Power Density Plot on Configuration IEEE 802.11g 5MHz Ant. 7-1 + Ant. 7-2 / 2437 MHz



Date: 22.JUN.2010 17:11:35

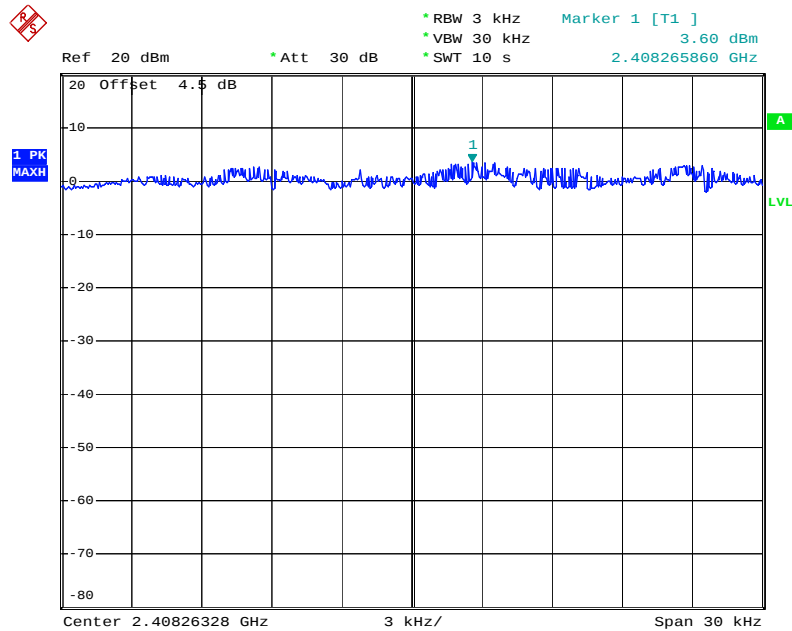
Power Density Plot on Configuration IEEE 802.11g 5MHz Ant. 7-1 + Ant. 7-2 / 2462 MHz



Date: 22.JUN.2010 17:08:39

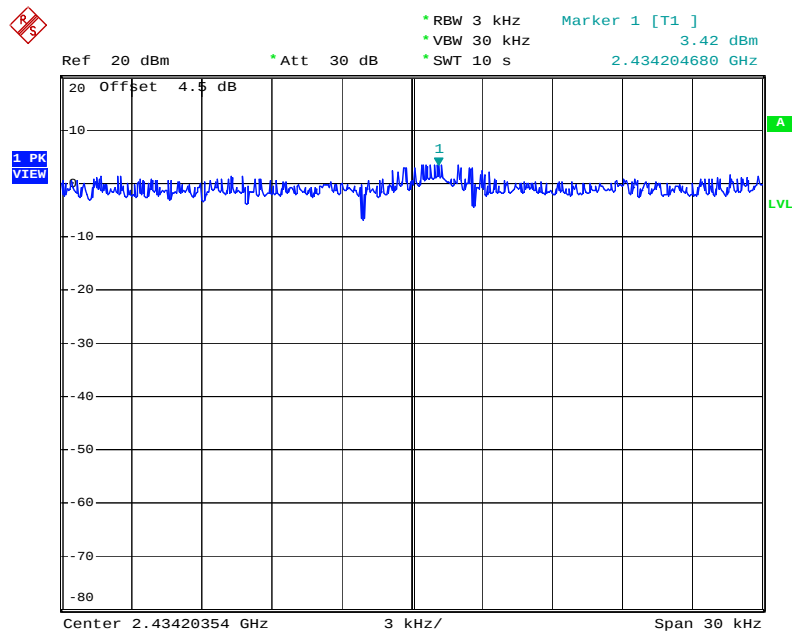
For Antenna 7 / Mode 14:

Power Density Plot on Configuration IEEE 802.11g 10MHz Ant. 7-1 + Ant. 7-2 / 2412 MHz



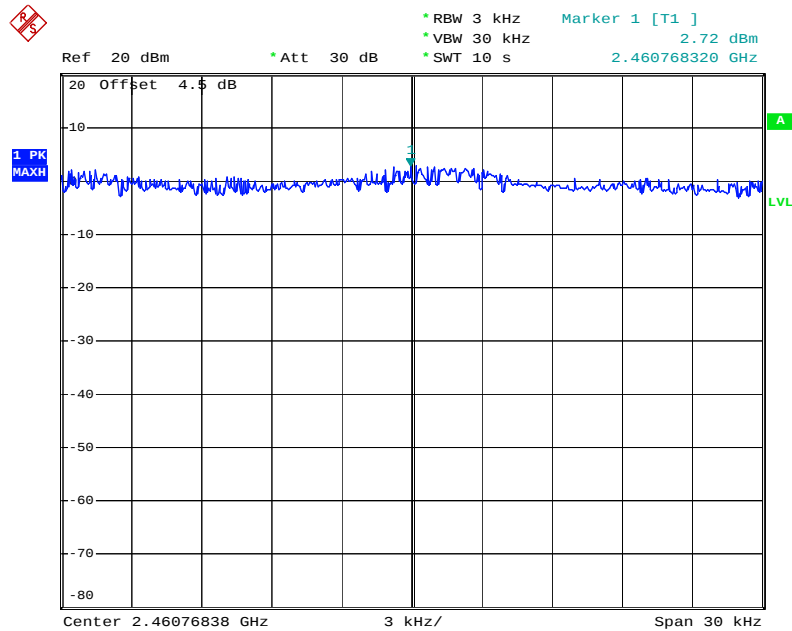
Date: 22.JUN.2010 17:53:44

Power Density Plot on Configuration IEEE 802.11g 10MHz Ant. 7-1 + Ant. 7-2 / 2437 MHz



Date: 22.JUN.2010 17:56:03

Power Density Plot on Configuration IEEE 802.11g 10MHz Ant. 7-1 + Ant. 7-2 / 2462 MHz



Date: 22.JUN.2010 17:59:00

4.3. 6dB Spectrum Bandwidth Measurement

4.3.1. Limit

For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.

4.3.2. Measuring Instruments and Setting

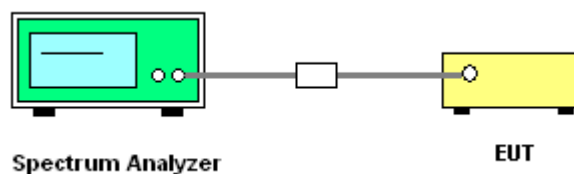
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 6dB Bandwidth
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.3.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
2. The resolution bandwidth of 100 kHz and the video bandwidth of 100 kHz were used.
3. Measured the spectrum width with power higher than 6dB below carrier.
4. Measuring multiple antennas, the connector is required to link with spectrum analyzer through a combiner.

4.3.4. Test Setup Layout



4.3.5. Test Deviation

There is no deviation with the original standard.

4.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.3.7. Test Result of 6dB Spectrum Bandwidth

For Antenna 1 / Mode 1:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a 5MHz / Antenna 1

Configuration IEEE 802.11a Ant. 1-1 + Ant. 1-2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	4.08	4.32	500	Complies
157	5785 MHz	4.12	4.28	500	Complies
165	5825 MHz	4.12	4.36	500	Complies

For Antenna 1 / Mode 2:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a 10MHz / Antenna 1

Configuration IEEE 802.11a Ant. 1-1 + Ant. 1-2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	8.20	8.40	500	Complies
157	5785 MHz	8.20	8.44	500	Complies
165	5825 MHz	8.28	8.40	500	Complies

For Antenna 2 / Mode 3:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a 5MHz / Antenna 2

Configuration IEEE 802.11a Ant. 2-1 + Ant. 2-2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	4.08	4.32	500	Complies
157	5785 MHz	4.12	4.28	500	Complies
165	5825 MHz	4.12	4.36	500	Complies

For Antenna 2 / Mode 4:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a 10MHz / Antenna 2

Configuration IEEE 802.11a Ant. 2-1 + Ant. 2-2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	8.20	8.40	500	Complies
157	5785 MHz	8.20	8.44	500	Complies
165	5825 MHz	8.28	8.40	500	Complies

For Antenna 3 / Mode 5:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a 5MHz / Antenna 3

Configuration IEEE 802.11a Ant. 3-1 + Ant. 3-2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	4.08	4.32	500	Complies
157	5785 MHz	4.12	4.28	500	Complies
165	5825 MHz	4.12	4.36	500	Complies

For Antenna 3 / Mode 6:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a 10MHz / Antenna 3

Configuration IEEE 802.11a Ant. 3-1 + Ant. 3-2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	8.20	8.40	500	Complies
157	5785 MHz	8.20	8.44	500	Complies
165	5825 MHz	8.28	8.40	500	Complies

For Antenna 4 / Mode 7:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a/g 5MHz / Antenna 4

For 2.4GHz Band:
Configuration IEEE 802.11g Ant. 4-1 + Ant. 4-2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	4.12	4.40	500	Complies
6	2437 MHz	4.12	4.48	500	Complies
11	2462 MHz	4.16	4.36	500	Complies

For 5GHz Band:
Configuration IEEE 802.11a Ant. 4-1 + Ant. 4-2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	4.08	4.32	500	Complies
157	5785 MHz	4.12	4.28	500	Complies
165	5825 MHz	4.12	4.36	500	Complies

For Antenna 4 / Mode 8:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	802.11a/g 10MHz / Antenna 4

For 2.4GHz Band:
Configuration IEEE 802.11g Ant. 4-1 + Ant. 4-2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	8.28	8.48	500	Complies
6	2437 MHz	8.32	8.48	500	Complies
11	2462 MHz	8.16	8.44	500	Complies

For 5GHz Band:
Configuration IEEE 802.11a Ant. 4-1 + Ant. 4-2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	8.20	8.40	500	Complies
157	5785 MHz	8.20	8.44	500	Complies
165	5825 MHz	8.28	8.40	500	Complies

For Antenna 5 / Mode 9:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g 5MHz / Antenna 5

Configuration IEEE 802.11g Ant. 5-1 + Ant. 5-2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	4.12	4.40	500	Complies
6	2437 MHz	4.08	4.36	500	Complies
11	2462 MHz	4.16	4.40	500	Complies

For Antenna 5 / Mode 10:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g 10MHz / Antenna 5

Configuration IEEE 802.11g Ant. 5-1 + Ant. 5-2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	8.28	8.48	500	Complies
6	2437 MHz	8.32	8.48	500	Complies
11	2462 MHz	8.16	8.44	500	Complies

For Antenna 6 / Mode 11:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g 5MHz / Antenna 6

Configuration IEEE 802.11g Ant. 6-1 + Ant. 6-2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	4.12	4.40	500	Complies
6	2437 MHz	4.12	4.48	500	Complies
11	2462 MHz	4.16	4.36	500	Complies

For Antenna 6 / Mode 12:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g 10MHz / Antenna 6

Configuration IEEE 802.11g Ant. 6-1 + Ant. 6-2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	8.28	8.48	500	Complies
6	2437 MHz	8.32	8.48	500	Complies
11	2462 MHz	8.16	8.44	500	Complies

For Antenna 7 / Mode 13:

Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g 5MHz / Antenna 7

Configuration IEEE 802.11g Ant. 7-1 + Ant. 7-2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	4.12	4.40	500	Complies
6	2437 MHz	4.12	4.48	500	Complies
11	2462 MHz	4.16	4.36	500	Complies

For Antenna 7 / Mode 14:

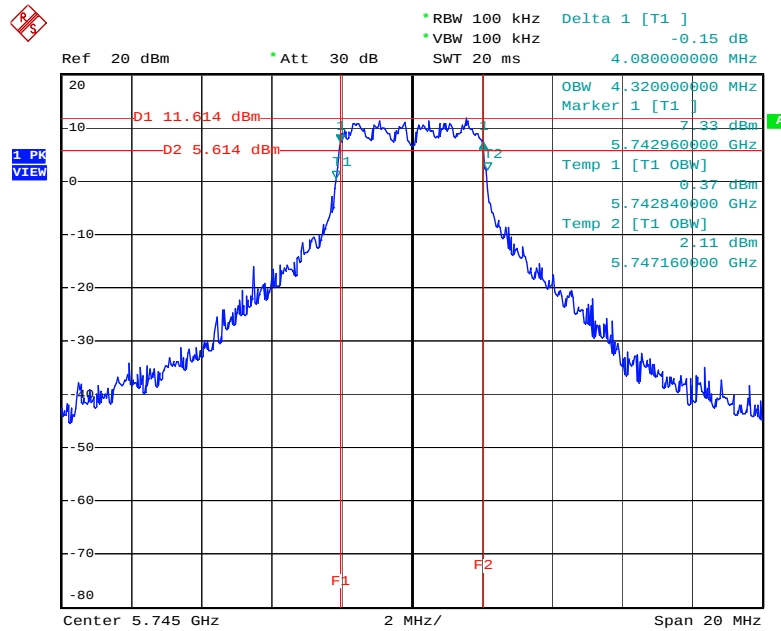
Temperature	21°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11g 10MHz / Antenna 7

Configuration IEEE 802.11g Ant. 7-1 + Ant. 7-2

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	8.28	8.48	500	Complies
6	2437 MHz	8.32	8.48	500	Complies
11	2462 MHz	8.16	8.44	500	Complies

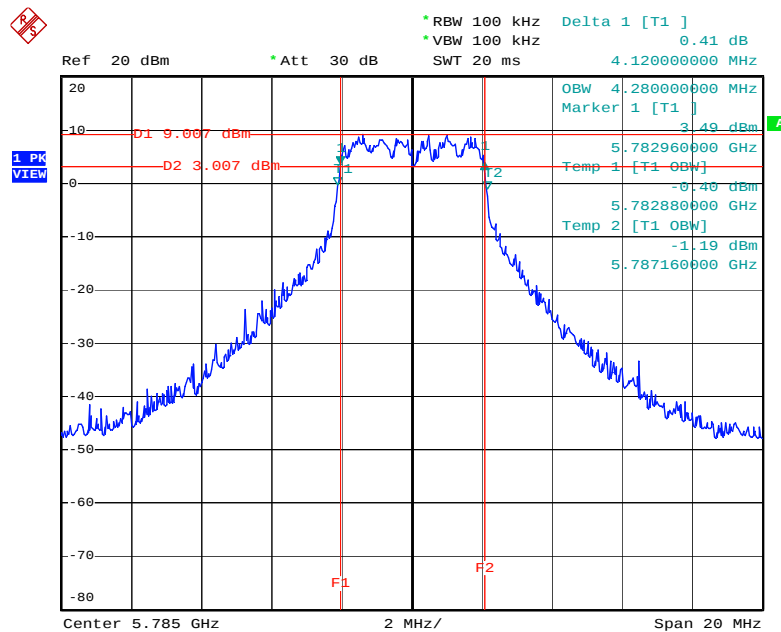
For Antenna 1 / Mode 1:

6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz Ant. 1-1 + Ant. 1-2 / 5745 MHz



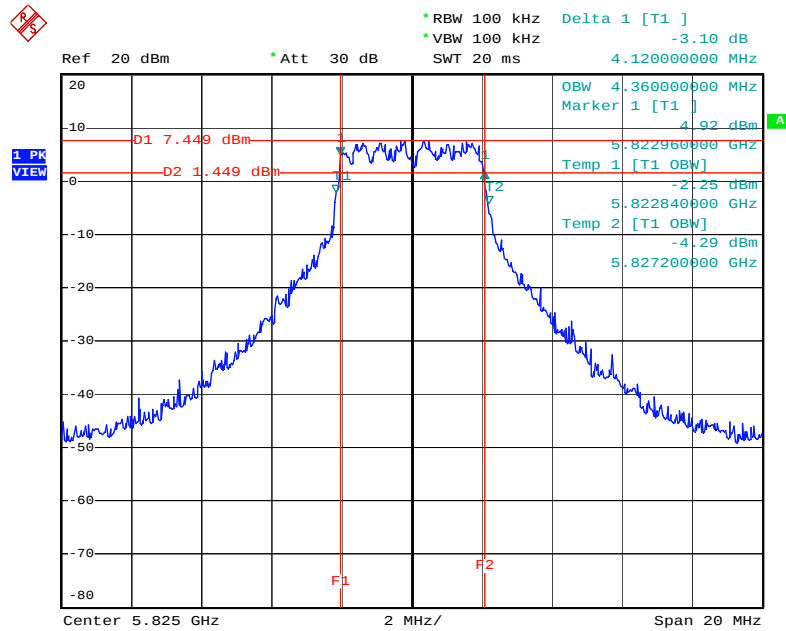
Date: 22.JUN.2010 14:24:30

6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz Ant. 1-1 + Ant. 1-2 / 5785 MHz



Date: 22.JUN.2010 14:37:44

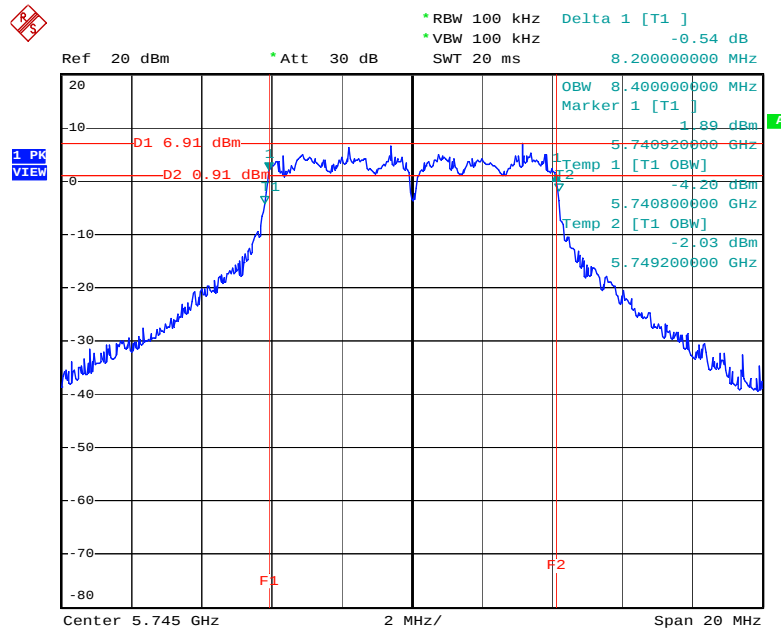
6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz Ant. 1-1 + Ant. 1-2 / 5825 MHz



Date: 22.JUN.2010 14:41:00

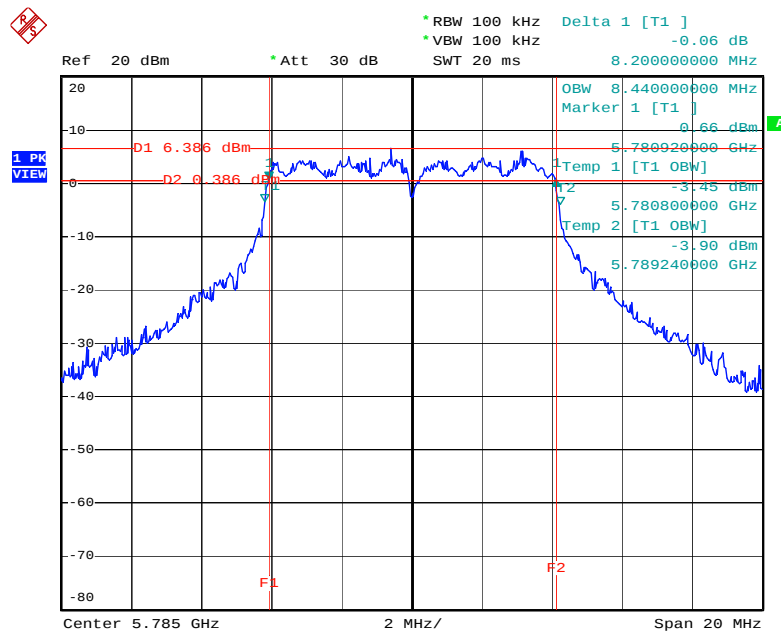
For Antenna 1 / Mode 2:

6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz Ant. 1-1 + Ant. 1-2 / 5745 MHz



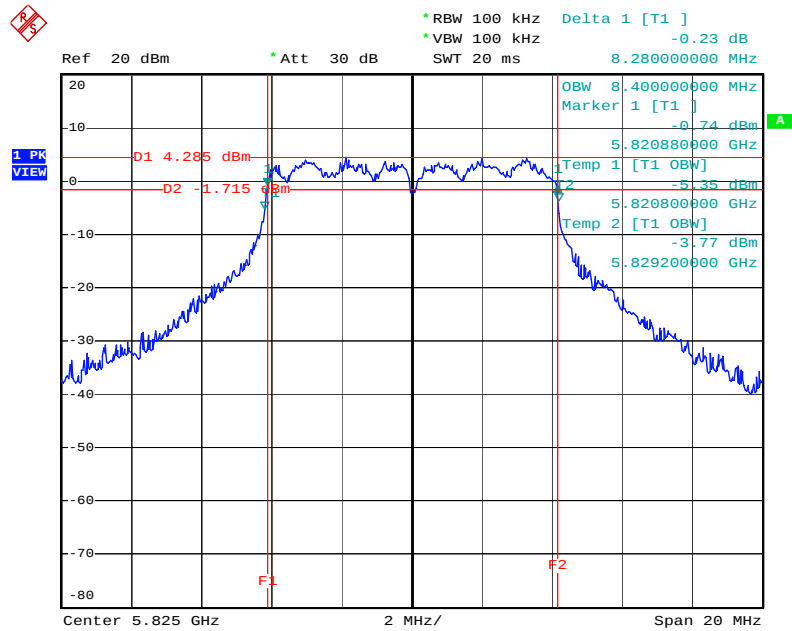
Date: 22.JUN.2010 16:20:13

6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz Ant. 1-1 + Ant. 1-2 / 5785 MHz



Date: 22.JUN.2010 16:22:16

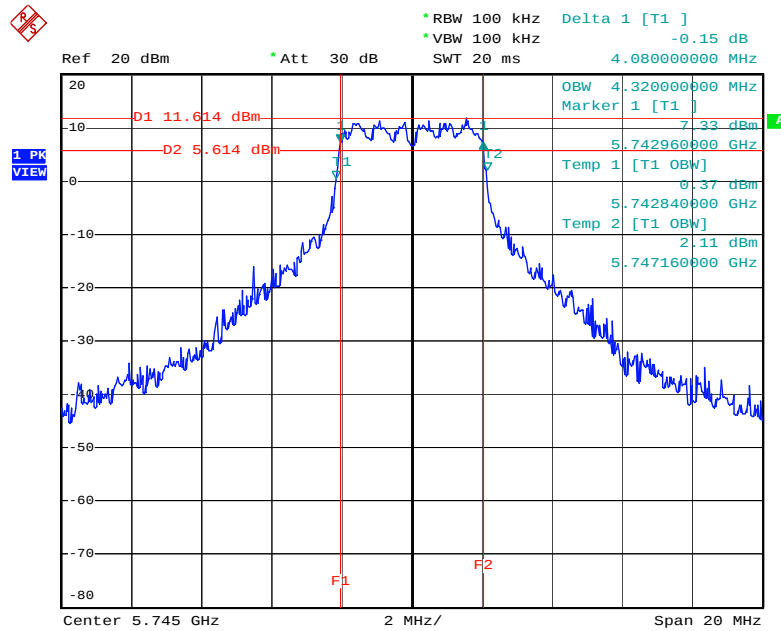
6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz Ant. 1-1 + Ant. 1-2 / 5825 MHz



Date: 22.JUN.2010 16:24:24

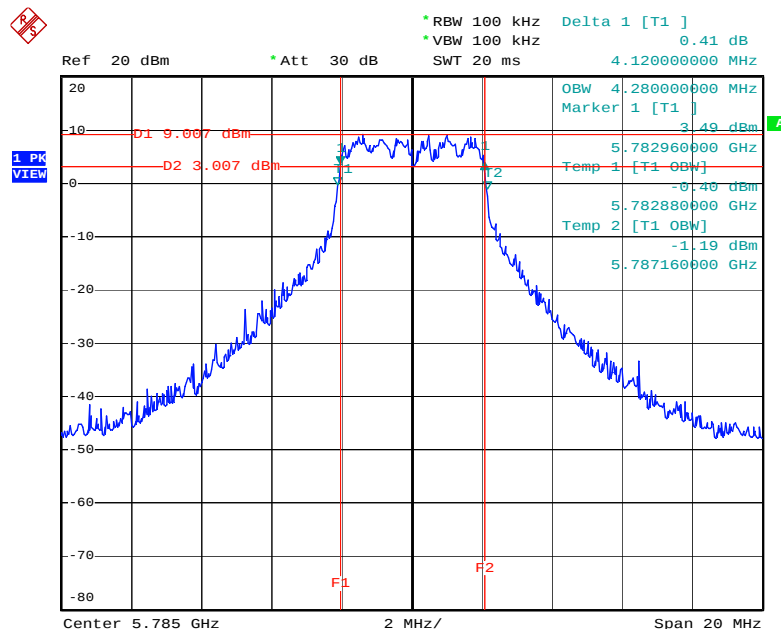
For Antenna 2 / Mode 3:

6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz Ant. 2-1 + Ant. 2-2 / 5745 MHz



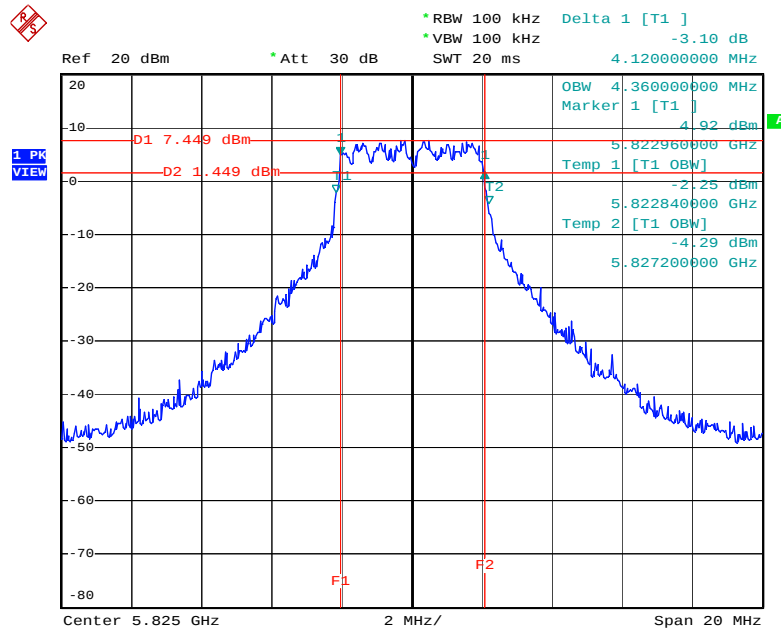
Date: 22.JUN.2010 14:24:30

6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz Ant. 2-1 + Ant. 2-2 / 5785 MHz



Date: 22.JUN.2010 14:37:44

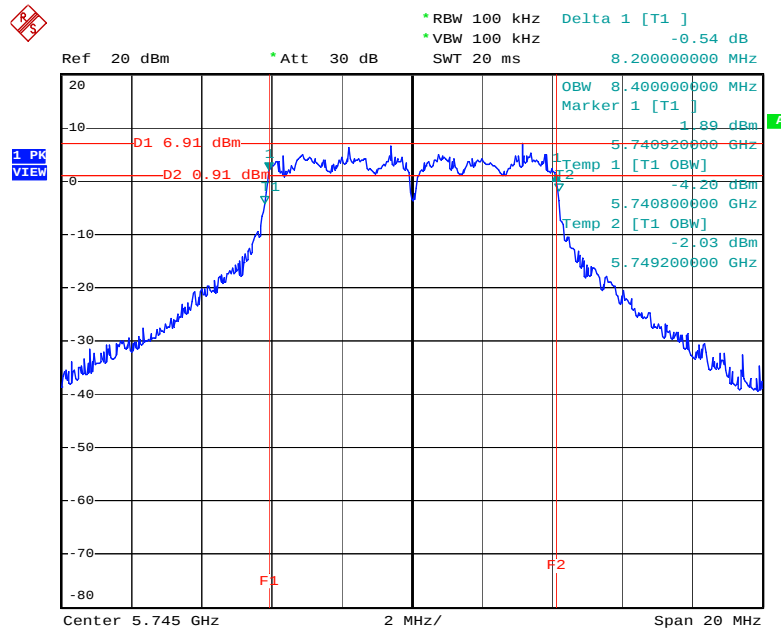
6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz Ant. 2-1 + Ant. 2-2 / 5825 MHz



Date: 22.JUN.2010 14:41:00

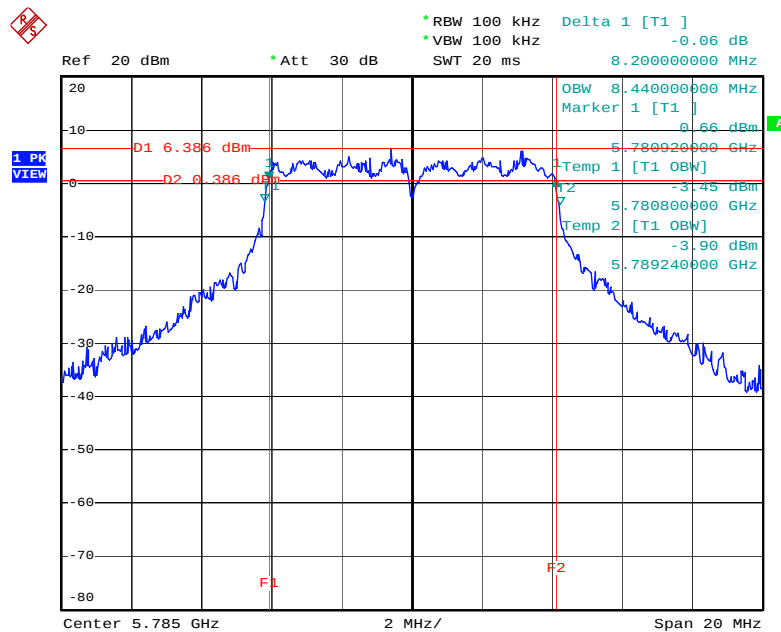
For Antenna 2 / Mode 4:

6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz Ant. 2-1 + Ant. 2-2 / 5745 MHz



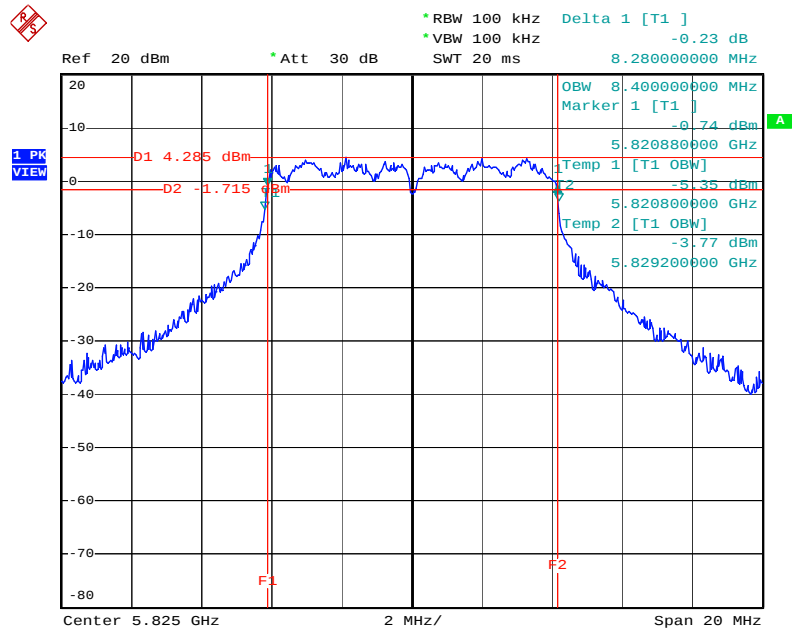
Date: 22.JUN.2010 16:20:13

6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz Ant. 2-1 + Ant. 2-2 / 5785 MHz



Date: 22.JUN.2010 16:22:16

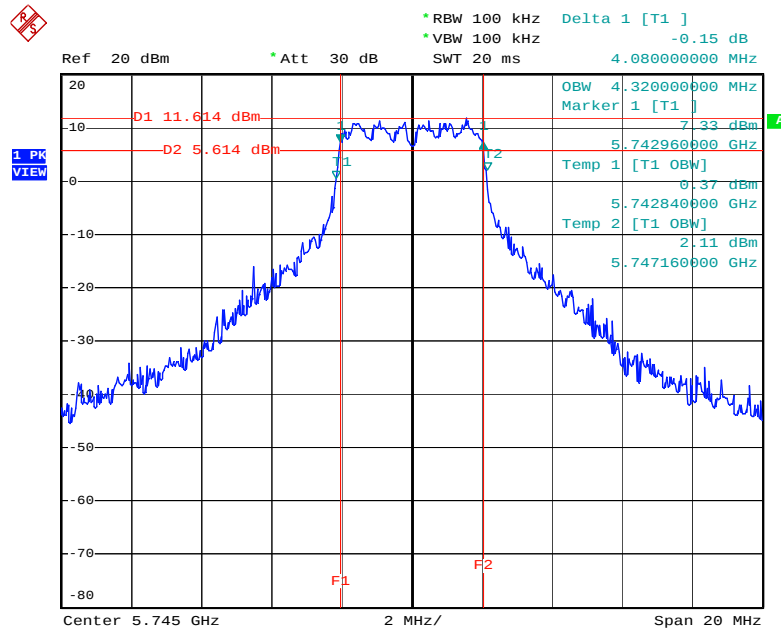
6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz Ant. 2-1 + Ant. 2-2 / 5825 MHz



Date: 22.JUN.2010 16:24:24

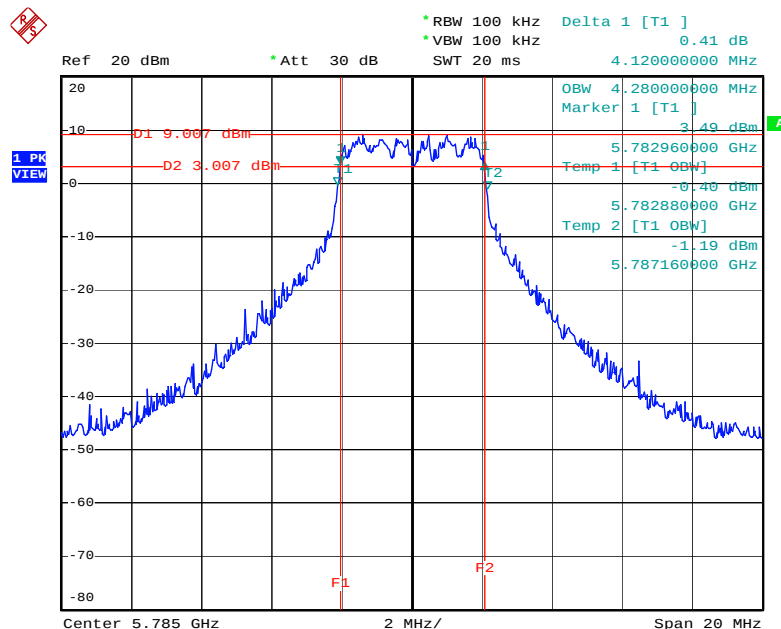
For Antenna 3 / Mode 5:

6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz Ant. 3-1 + Ant. 3-2 / 5745 MHz



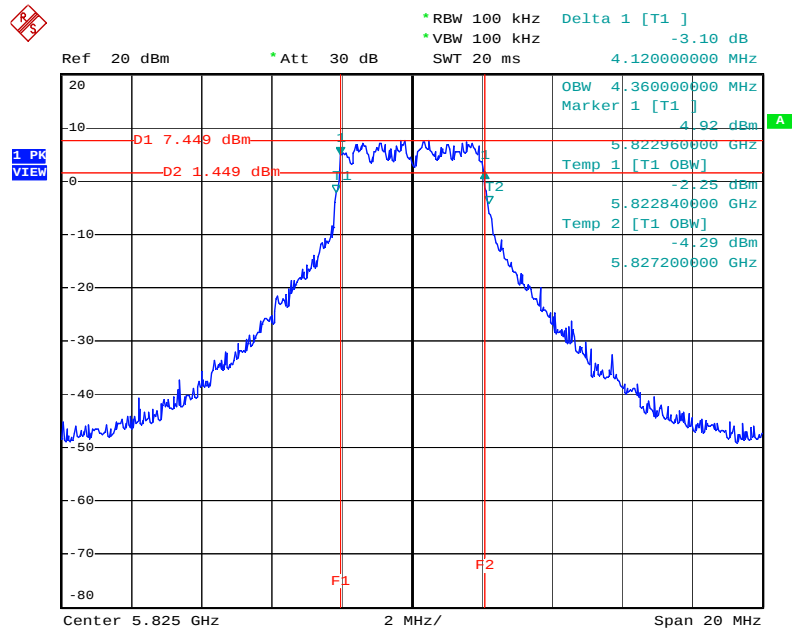
Date: 22.JUN.2010 14:24:30

6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz Ant. 3-1 + Ant. 3-2 / 5785 MHz



Date: 22.JUN.2010 14:37:44

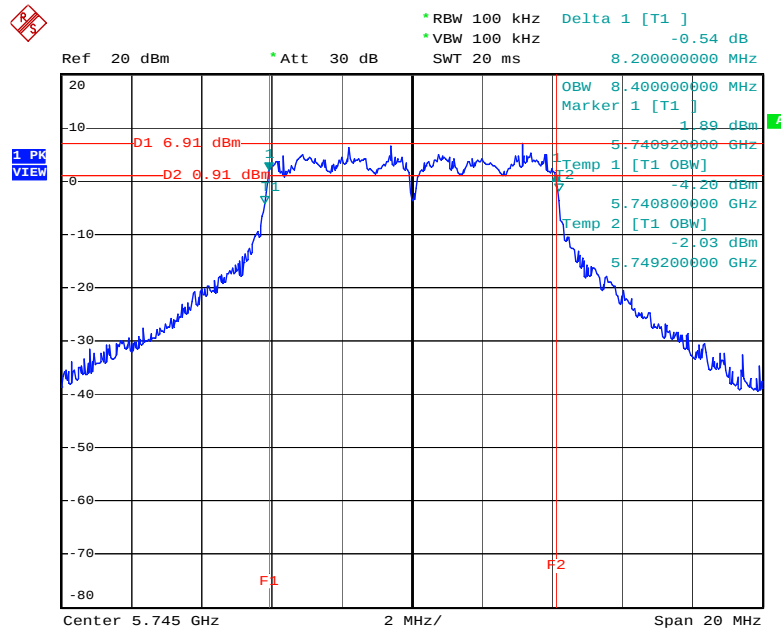
6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz Ant. 3-1 + Ant. 3-2 / 5825 MHz



Date: 22.JUN.2010 14:41:00

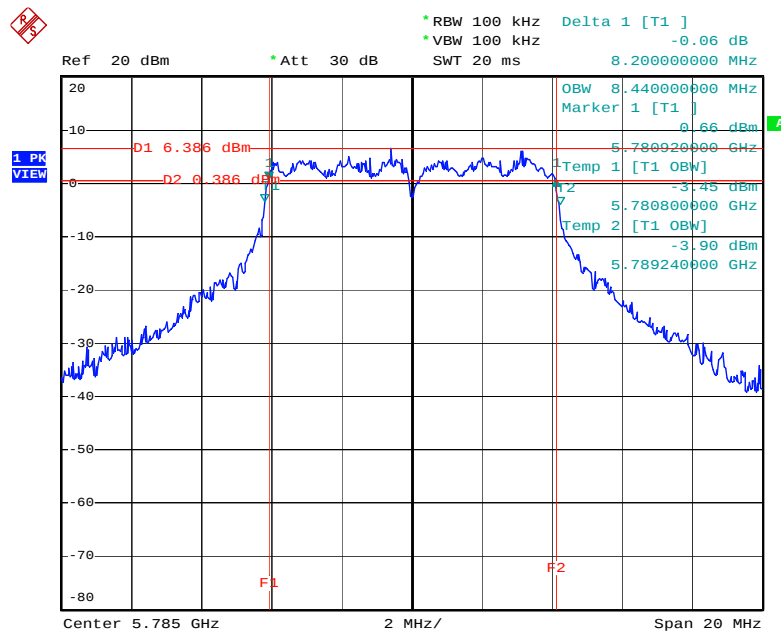
For Antenna 3 / Mode 6:

6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz Ant. 3-1 + Ant. 3-2 / 5745 MHz



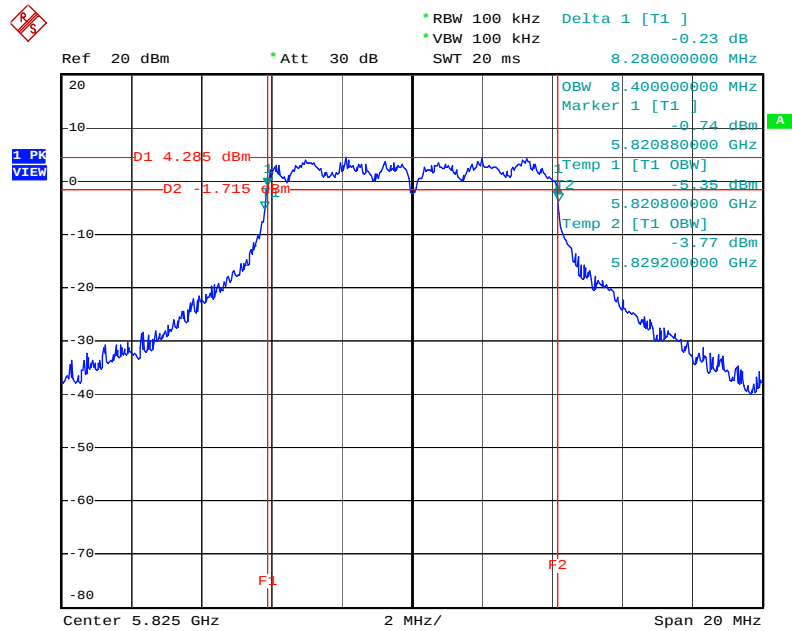
Date: 22.JUN.2010 16:20:13

6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz Ant. 3-1 + Ant. 3-2 / 5785 MHz



Date: 22.JUN.2010 16:22:16

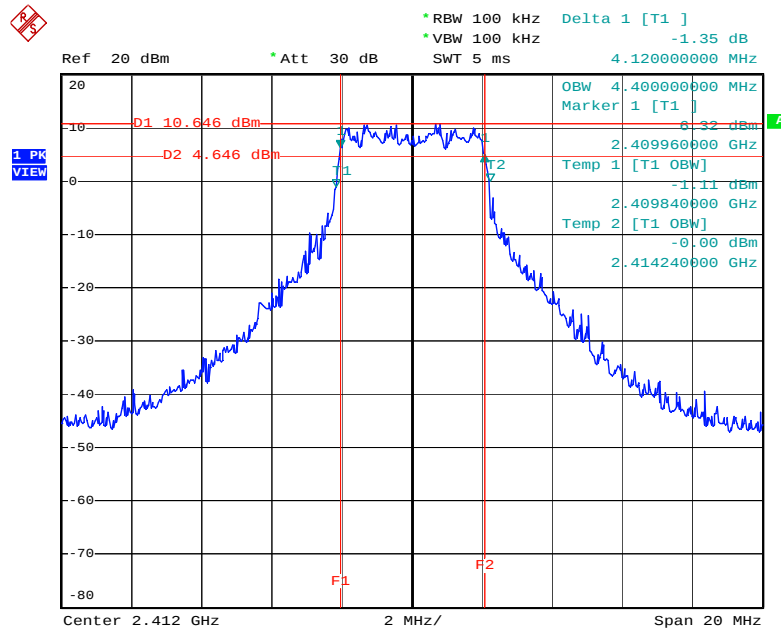
6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz Ant. 3-1 + Ant. 3-2 / 5825 MHz



Date: 22.JUN.2010 16:24:24

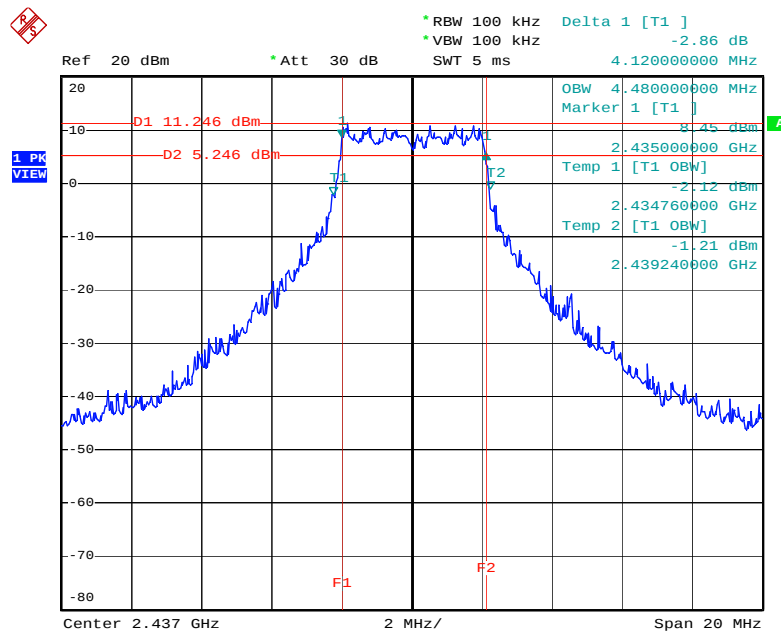
For Antenna 4 / Mode 7:

6 dB Bandwidth Plot on Configuration IEEE 802.11g 5MHz Ant. 4-1 + Ant. 4-2 / 2412 MHz



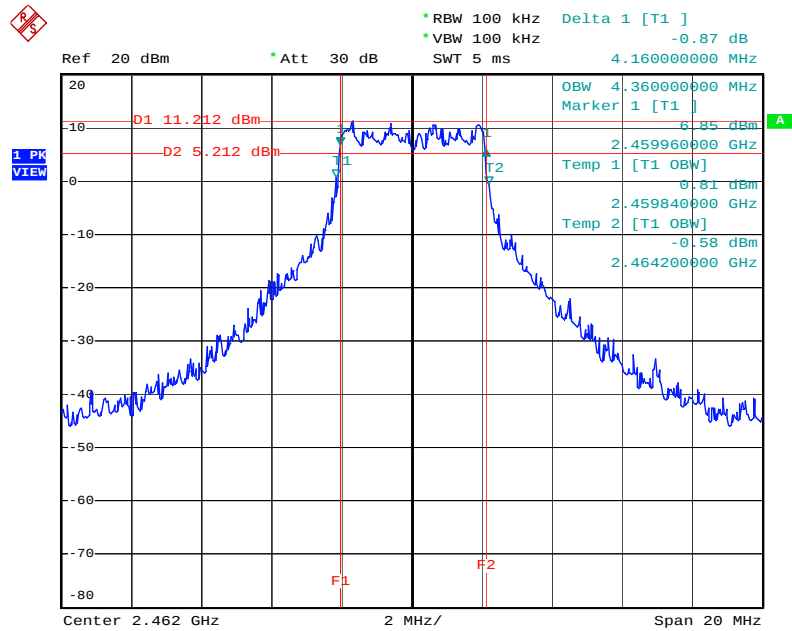
Date: 22.JUN.2010 16:59:56

6 dB Bandwidth Plot on Configuration IEEE 802.11g 5MHz Ant. 4-1 + Ant. 4-2 / 2437 MHz



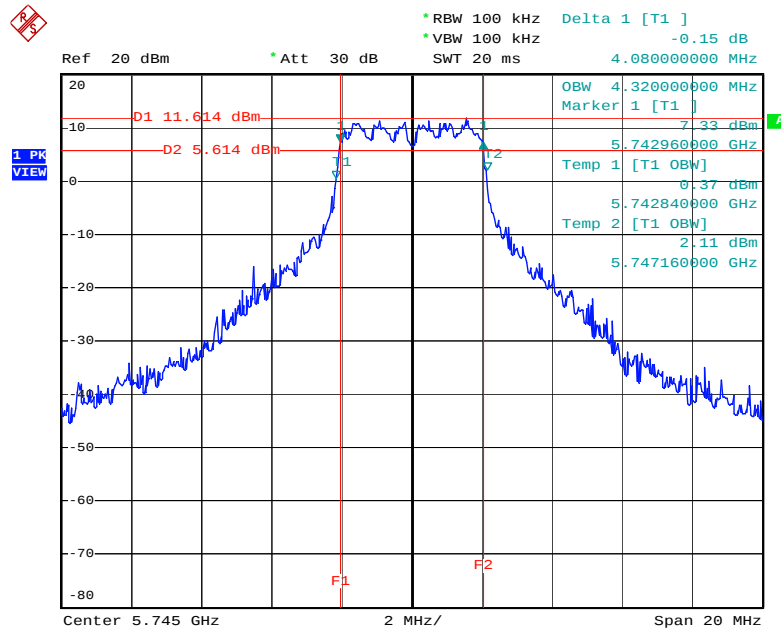
Date: 22.JUN.2010 17:01:59

6 dB Bandwidth Plot on Configuration IEEE 802.11g 5MHz Ant. 4-1 + Ant. 4-2 / 2462 MHz



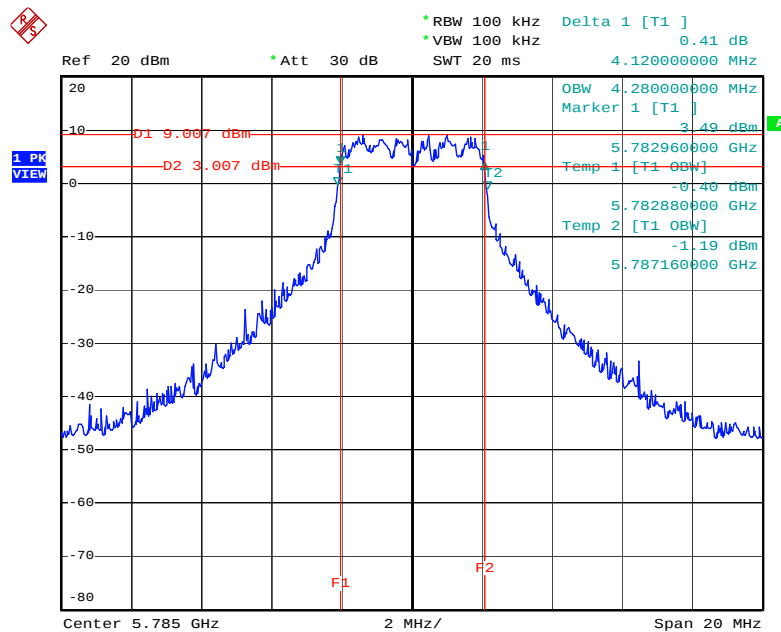
Date: 22.JUN.2010 17:04:11

6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz Ant. 4-1 + Ant. 4-2 / 5745 MHz



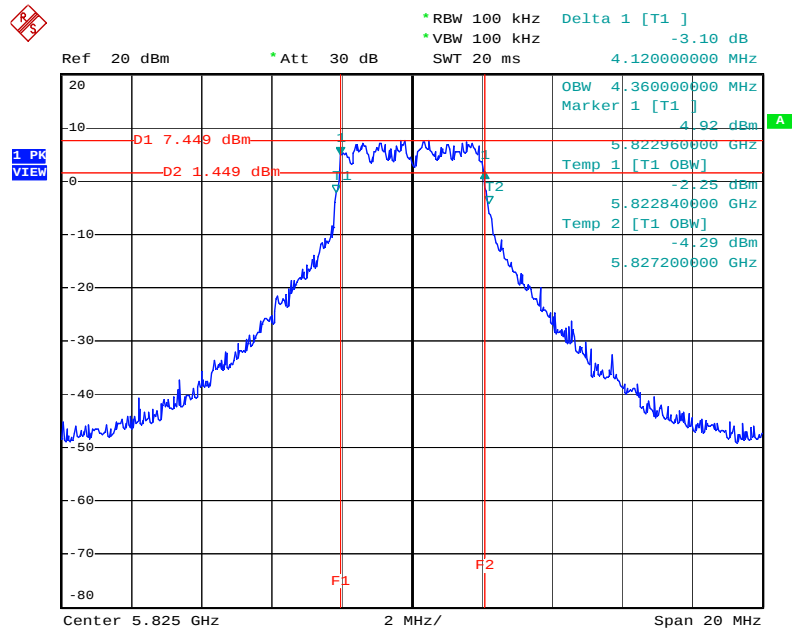
Date: 22.JUN.2010 14:24:30

6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz Ant. 4-1 + Ant. 4-2 / 5785 MHz



Date: 22.JUN.2010 14:37:44

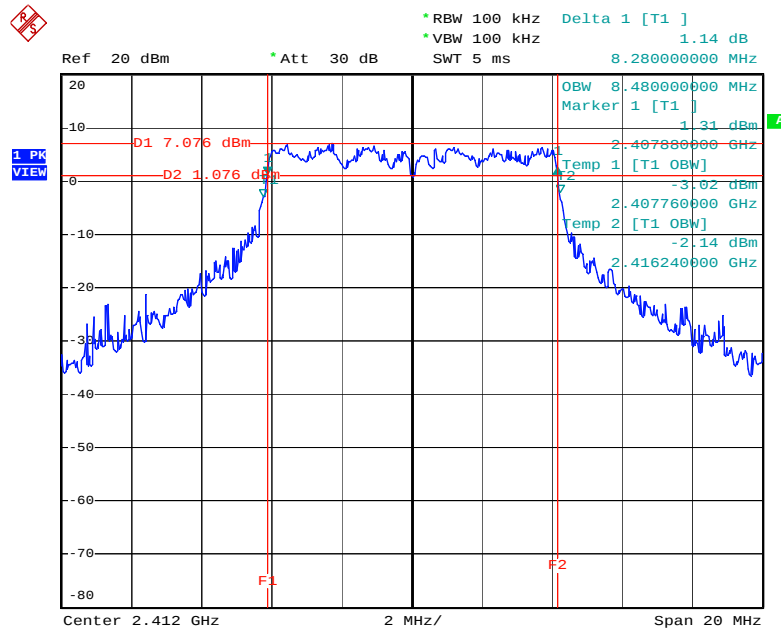
6 dB Bandwidth Plot on Configuration IEEE 802.11a 5MHz Ant. 4-1 + Ant. 4-2 / 5825 MHz



Date: 22.JUN.2010 14:41:00

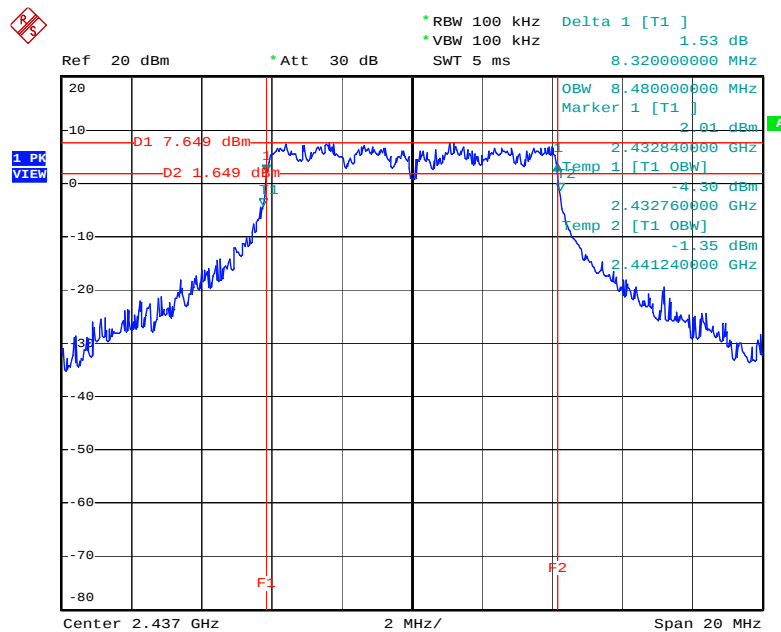
For Antenna 4 / Mode 8:

6 dB Bandwidth Plot on Configuration IEEE 802.11g 10MHz Ant. 4-1 + Ant. 4-2 / 2412 MHz



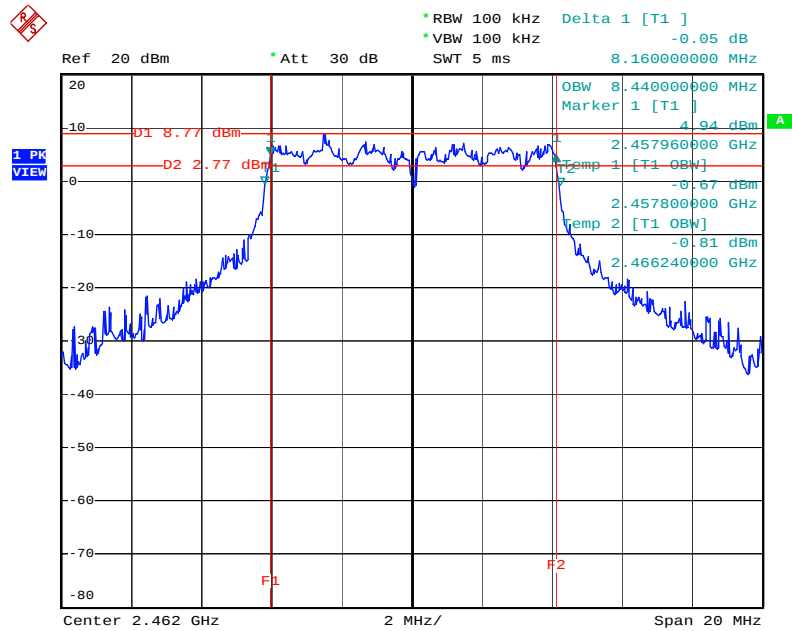
Date: 22.JUN.2010 16:09:52

6 dB Bandwidth Plot on Configuration IEEE 802.11g 10MHz Ant. 4-1 + Ant. 4-2 / 2437 MHz



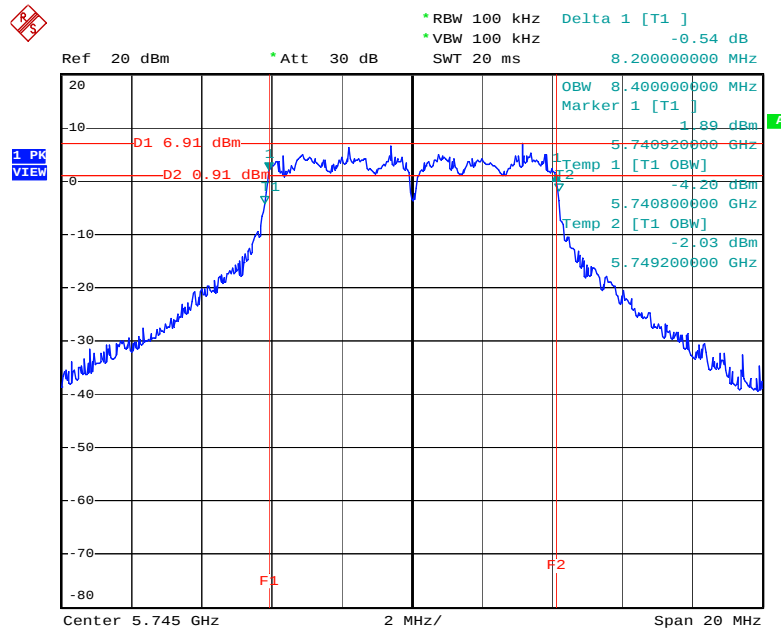
Date: 22.JUN.2010 16:13:35

6 dB Bandwidth Plot on Configuration IEEE 802.11g 10MHz Ant. 4-1 + Ant. 4-2 / 2462 MHz



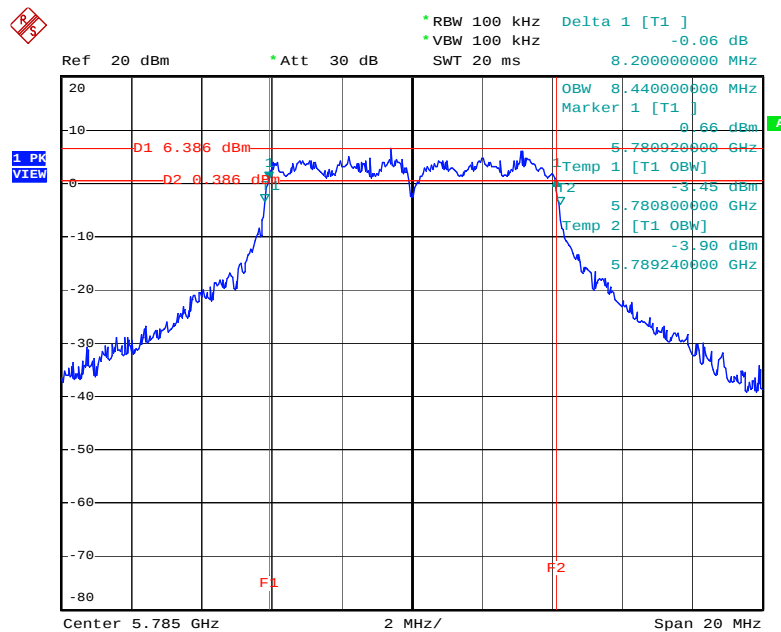
Date: 22.JUN.2010 16:16:46

6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz Ant. 4-1 + Ant. 4-2 / 5745 MHz



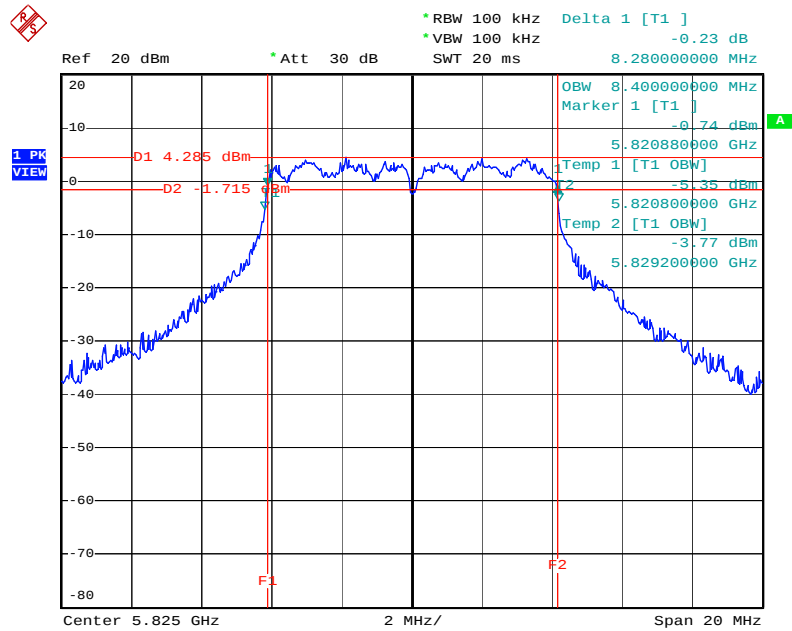
Date: 22.JUN.2010 16:20:13

6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz Ant. 4-1 + Ant. 4-2 / 5785 MHz



Date: 22.JUN.2010 16:22:16

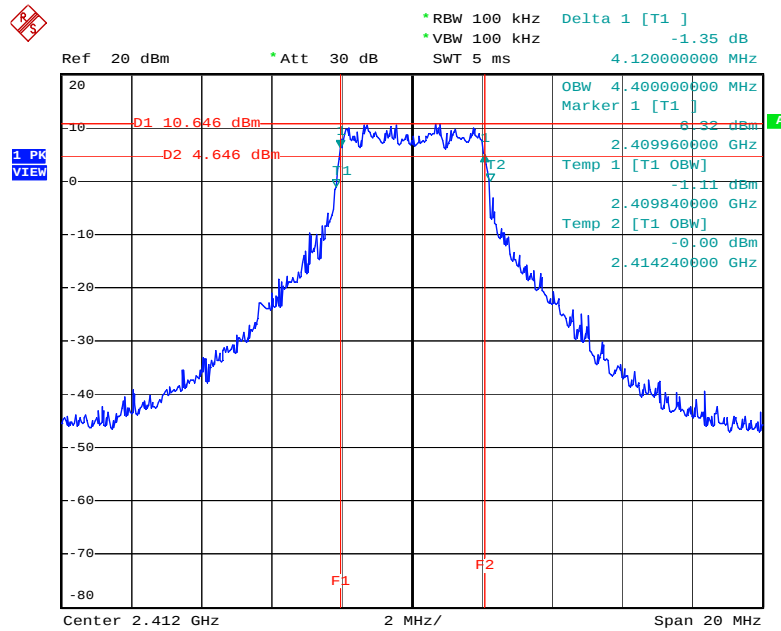
6 dB Bandwidth Plot on Configuration IEEE 802.11a 10MHz Ant. 4-1 + Ant. 4-2 / 5825 MHz



Date: 22.JUN.2010 16:24:24

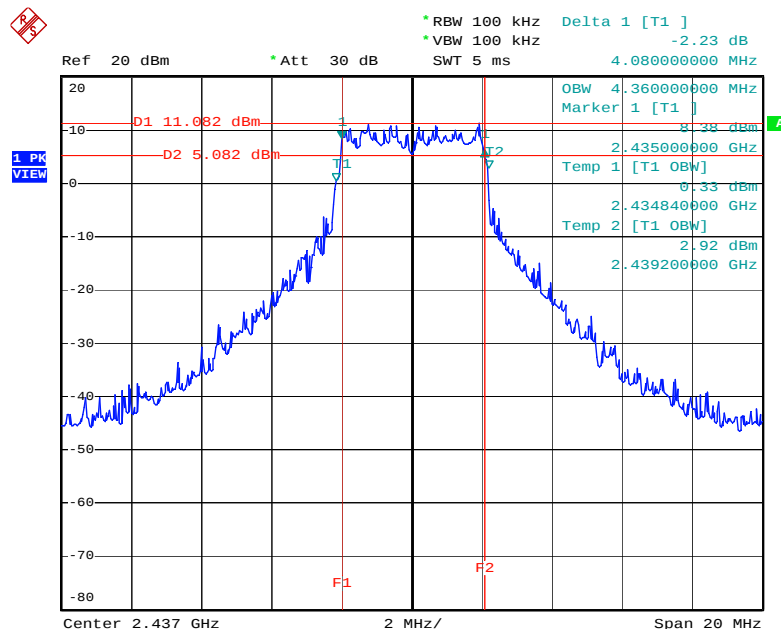
For Antenna 5 / Mode 9:

6 dB Bandwidth Plot on Configuration IEEE 802.11g 5MHz Ant. 5-1 + Ant. 5-2 / 2412 MHz



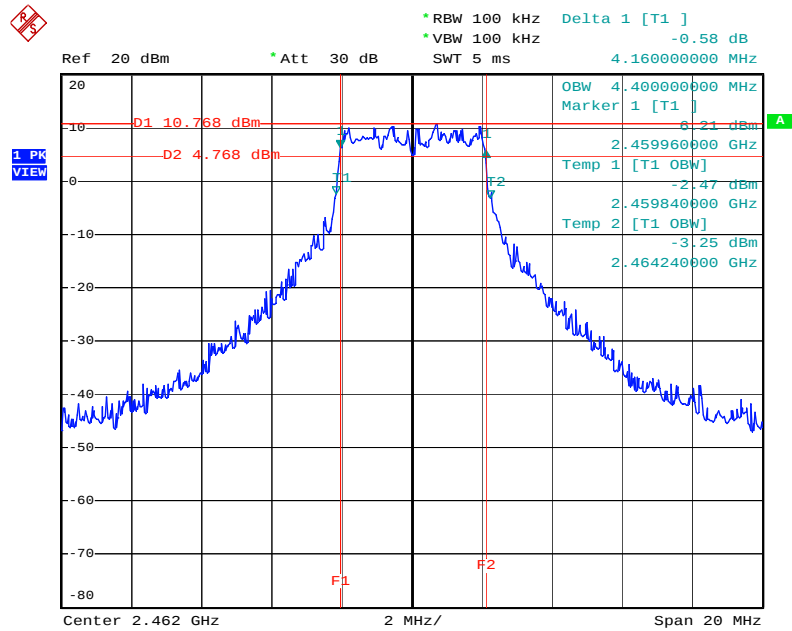
Date: 22.JUN.2010 16:59:56

6 dB Bandwidth Plot on Configuration IEEE 802.11g 5MHz Ant. 5-1 + Ant. 5-2 / 2437 MHz



Date: 22.JUN.2010 18:12:48

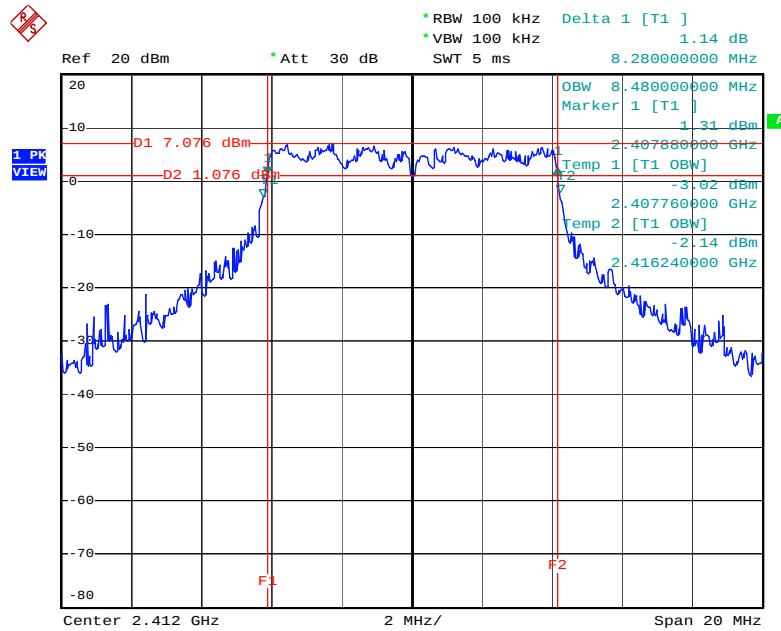
6 dB Bandwidth Plot on Configuration IEEE 802.11g 5MHz Ant. 5-1 + Ant. 5-2 / 2462 MHz



Date: 22.JUN.2010 18:10:44

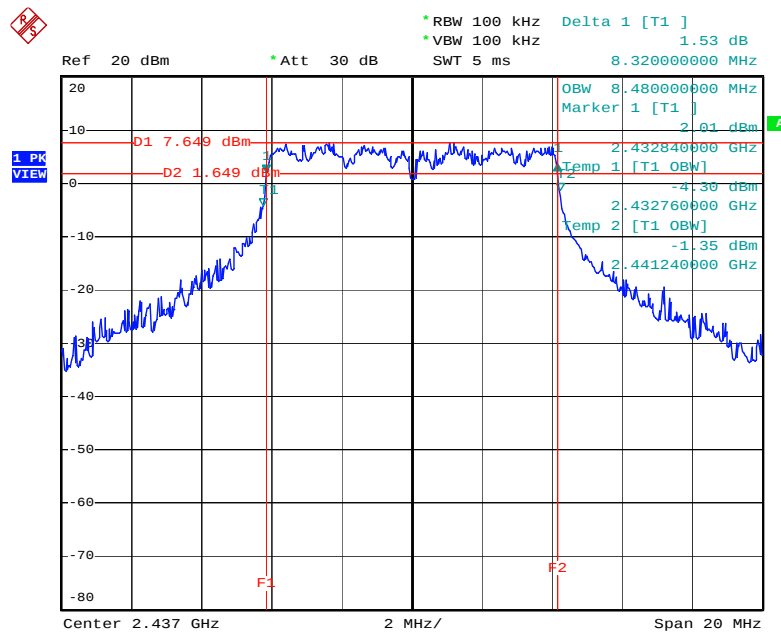
For Antenna 5 / Mode 10:

6 dB Bandwidth Plot on Configuration IEEE 802.11g 10MHz Ant. 5-1 + Ant. 5-2 / 2412 MHz



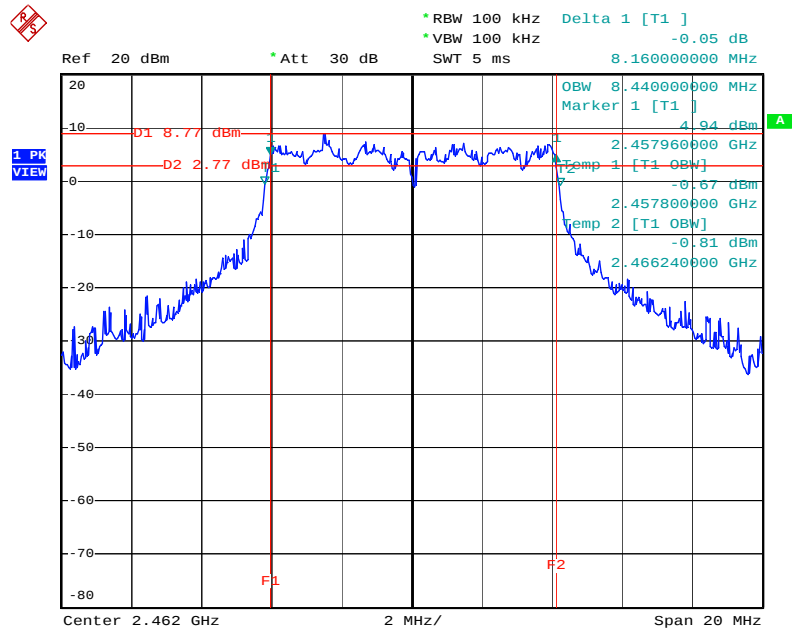
Date: 22.JUN.2010 16:09:52

6 dB Bandwidth Plot on Configuration IEEE 802.11g 10MHz Ant. 5-1 + Ant. 5-2 / 2437 MHz



Date: 22.JUN.2010 16:13:35

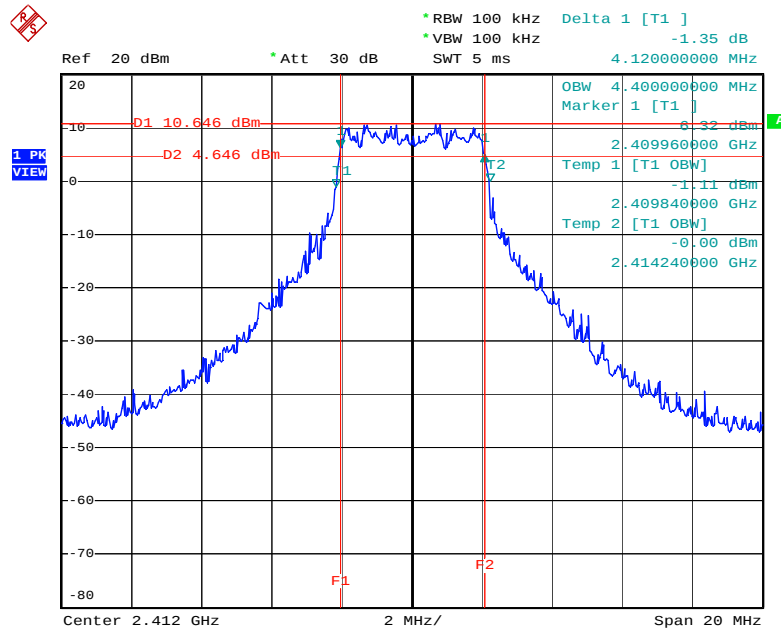
6 dB Bandwidth Plot on Configuration IEEE 802.11g 10MHz Ant. 5-1 + Ant. 5-2 / 2462 MHz



Date: 22.JUN.2010 16:16:46

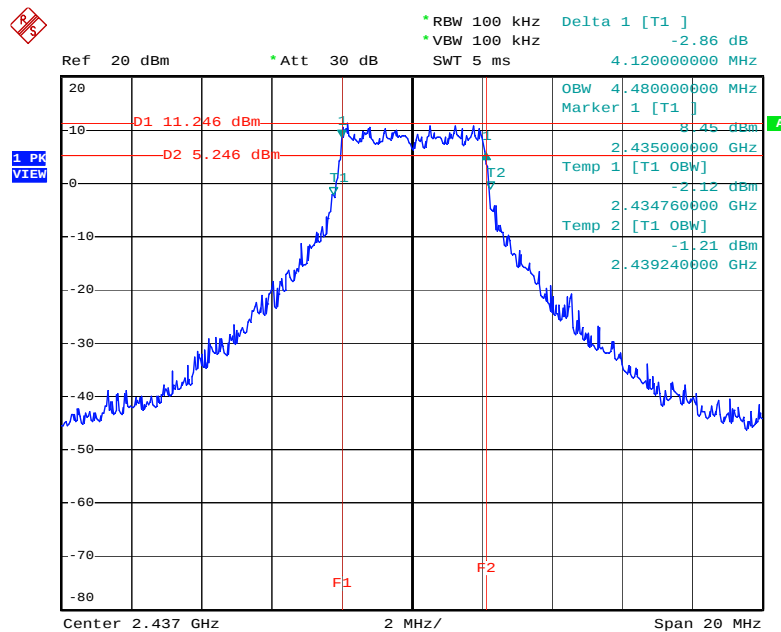
For Antenna 6 / Mode 11:

6 dB Bandwidth Plot on Configuration IEEE 802.11g 5MHz Ant. 6-1 + Ant. 6-2 / 2412 MHz



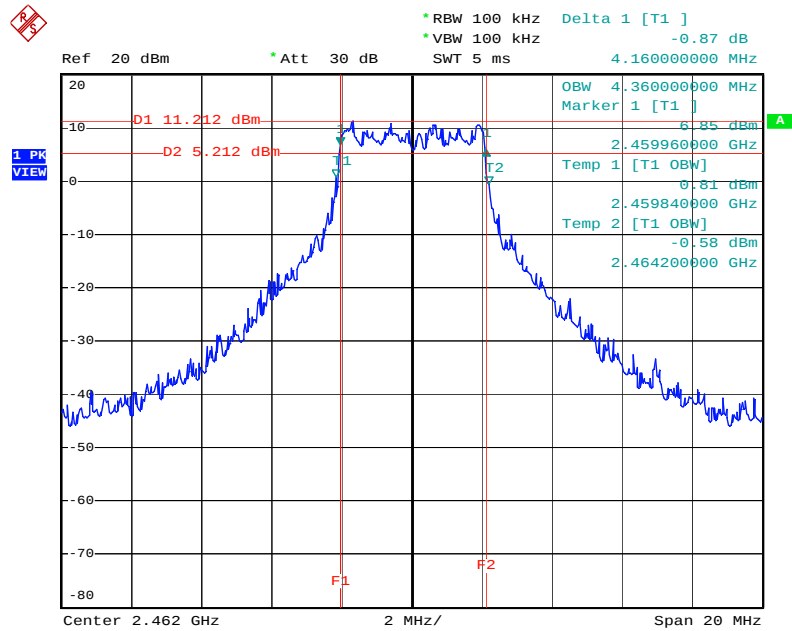
Date: 22.JUN.2010 16:59:56

6 dB Bandwidth Plot on Configuration IEEE 802.11g 5MHz Ant. 6-1 + Ant. 6-2 / 2437 MHz



Date: 22.JUN.2010 17:01:59

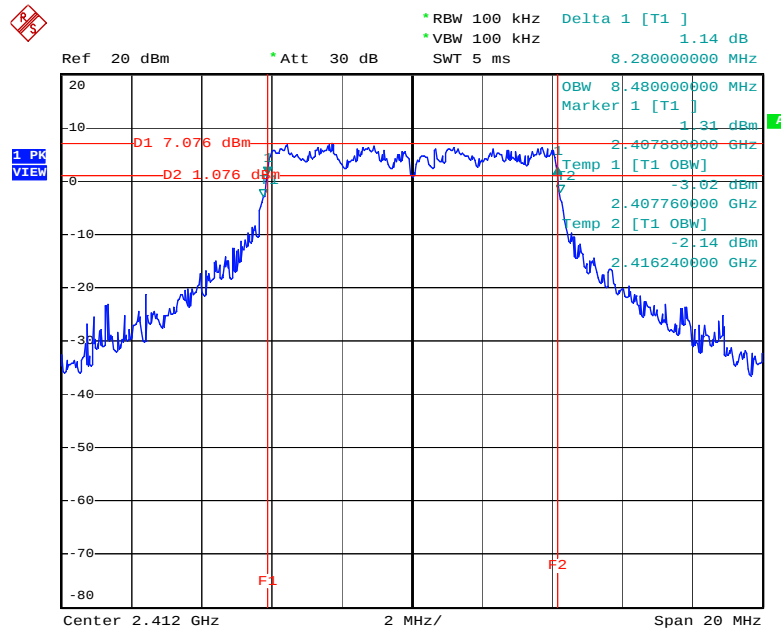
6 dB Bandwidth Plot on Configuration IEEE 802.11g 5MHz Ant. 6-1 + Ant. 6-2 / 2462 MHz



Date: 22.JUN.2010 17:04:11

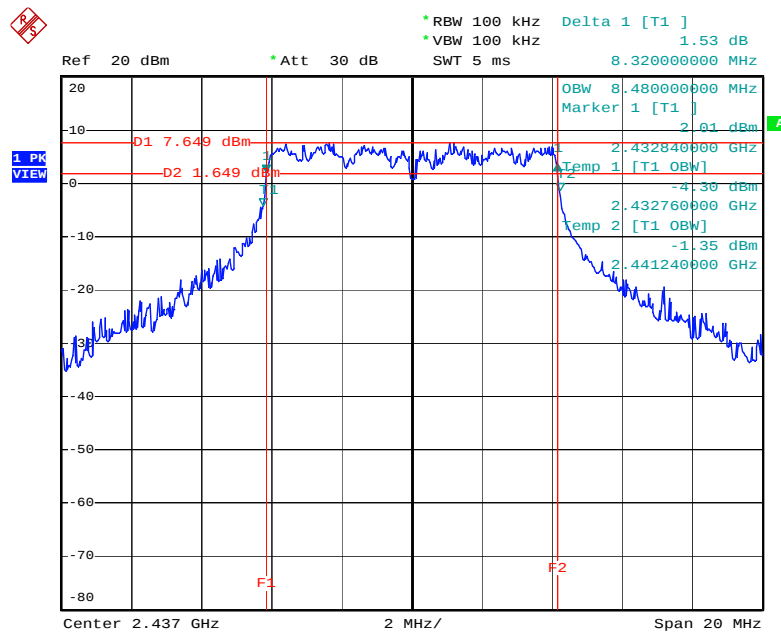
For Antenna 6 / Mode 12:

6 dB Bandwidth Plot on Configuration IEEE 802.11g 10MHz Ant. 6-1 + Ant. 6-2 / 2412 MHz



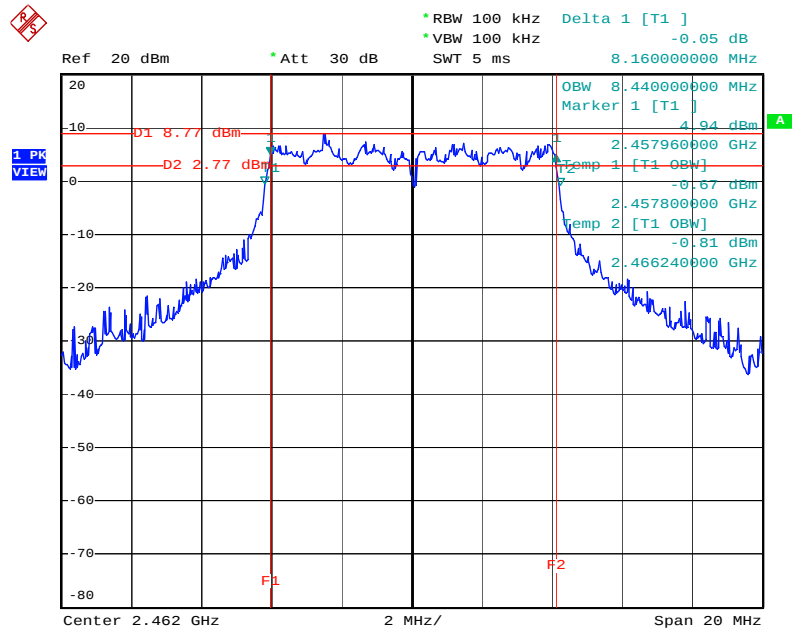
Date: 22.JUN.2010 16:09:52

6 dB Bandwidth Plot on Configuration IEEE 802.11g 10MHz Ant. 6-1 + Ant. 6-2 / 2437 MHz



Date: 22.JUN.2010 16:13:35

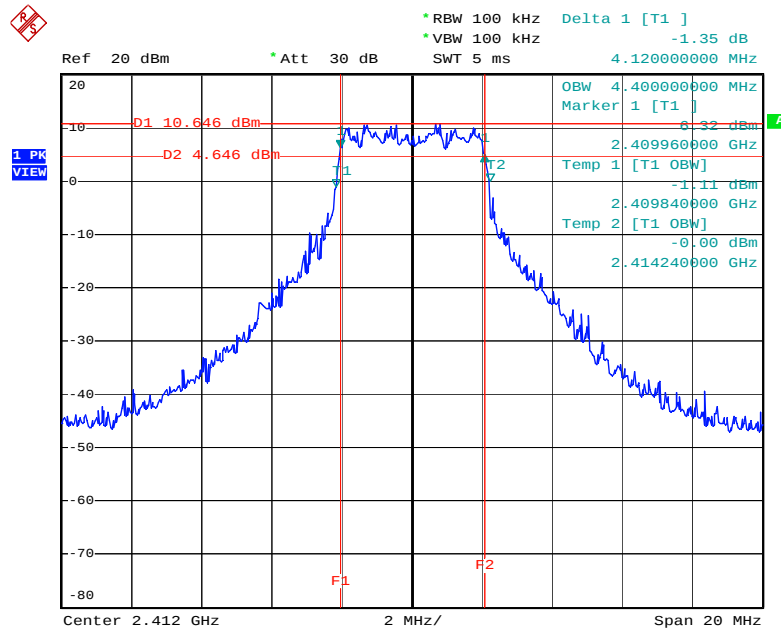
6 dB Bandwidth Plot on Configuration IEEE 802.11g 10MHz Ant. 6-1 + Ant. 6-2 / 2462 MHz



Date: 22.JUN.2010 16:16:46

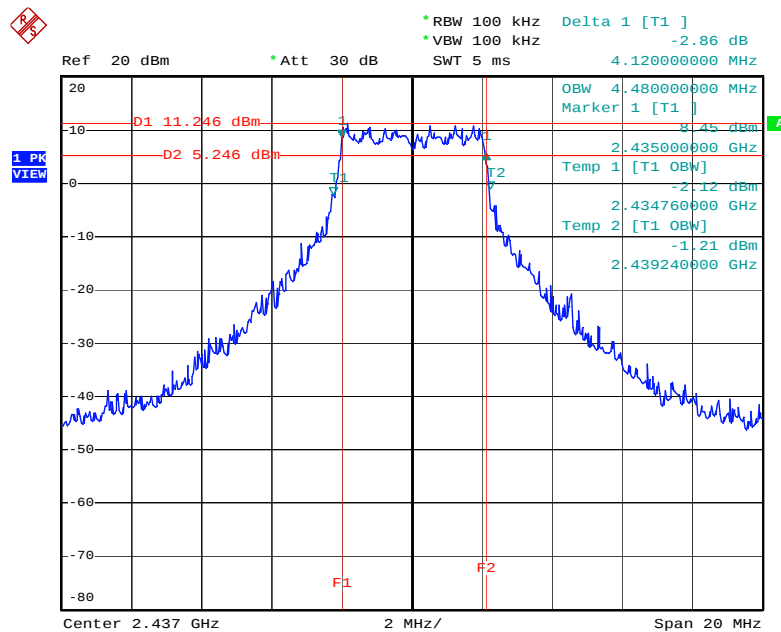
For Antenna 7 / Mode 13:

6 dB Bandwidth Plot on Configuration IEEE 802.11g 5MHz Ant. 7-1 + Ant. 7-2 / 2412 MHz



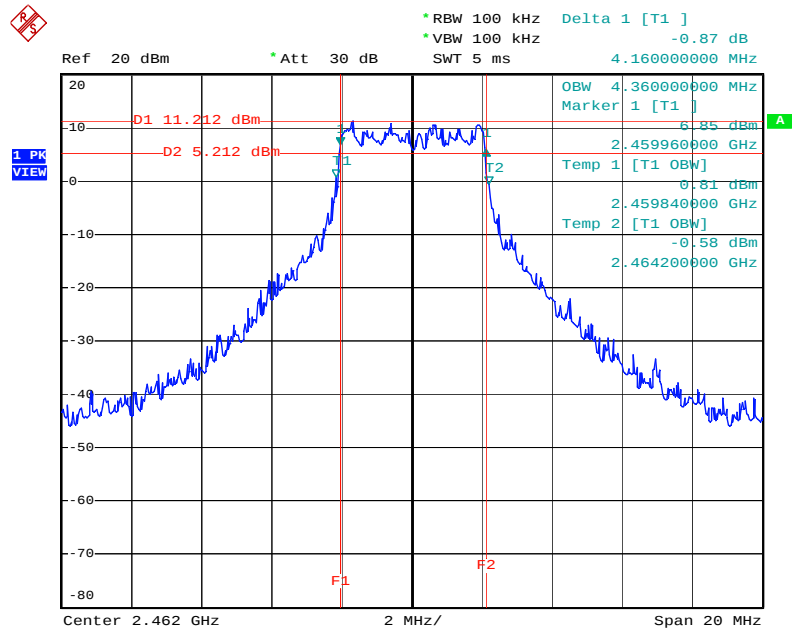
Date: 22.JUN.2010 16:59:56

6 dB Bandwidth Plot on Configuration IEEE 802.11g 5MHz Ant. 7-1 + Ant. 7-2 / 2437 MHz



Date: 22.JUN.2010 17:01:59

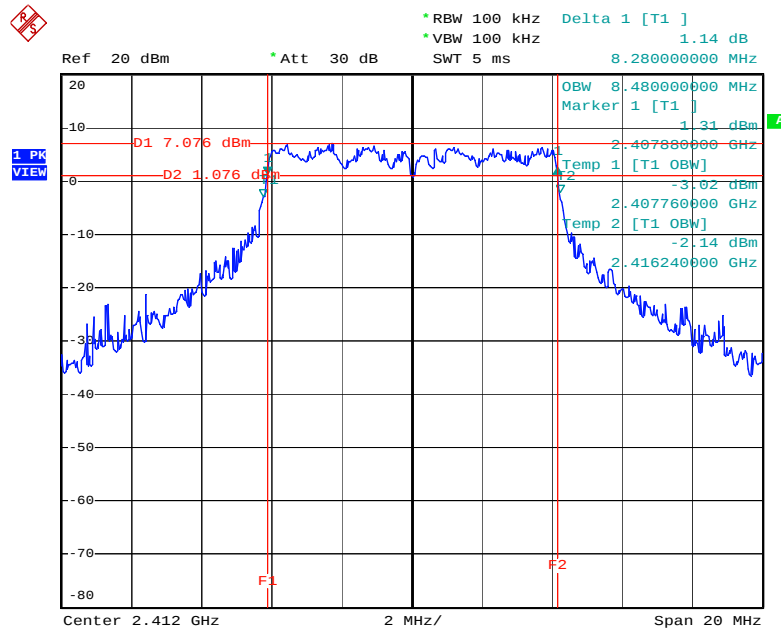
6 dB Bandwidth Plot on Configuration IEEE 802.11g 5MHz Ant. 7-1 + Ant. 7-2 / 2462 MHz



Date: 22.JUN.2010 17:04:11

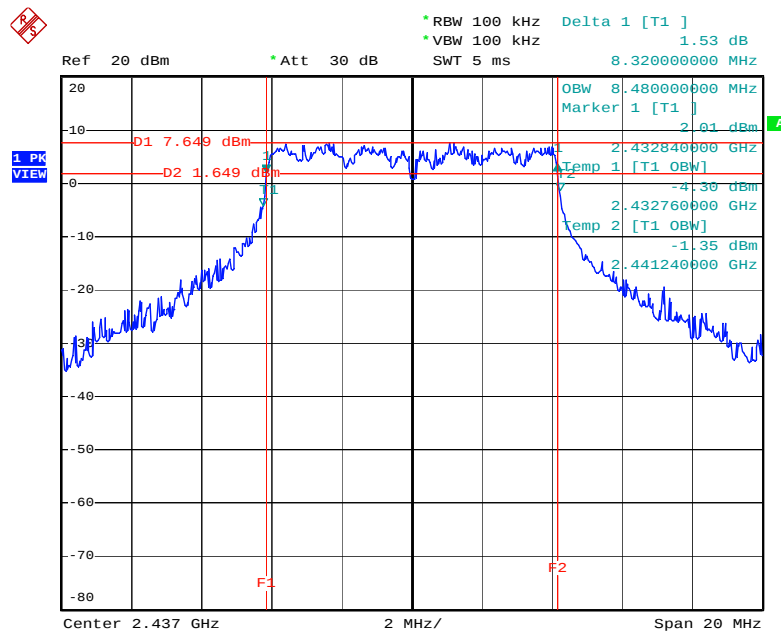
For Antenna 7 / Mode 14:

6 dB Bandwidth Plot on Configuration IEEE 802.11g 10MHz Ant. 7-1 + Ant. 7-2 / 2412 MHz



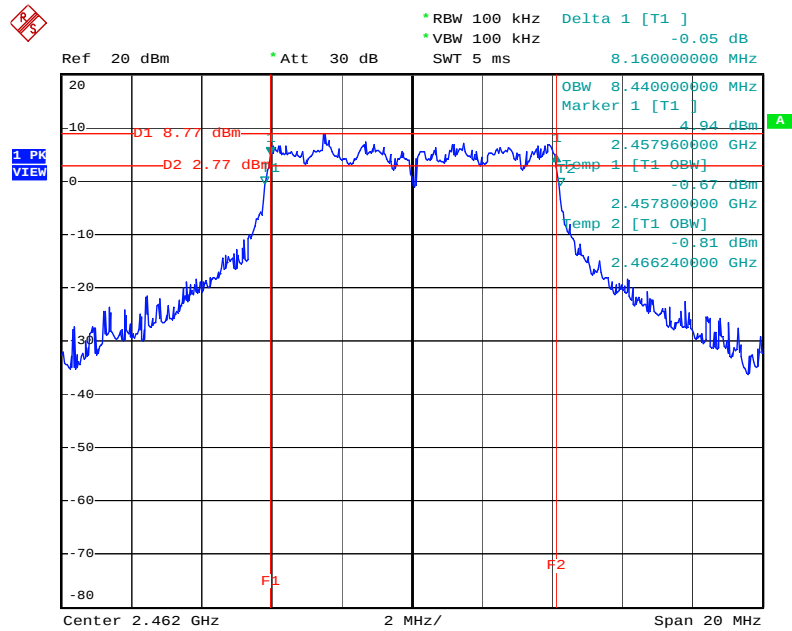
Date: 22.JUN.2010 16:09:52

6 dB Bandwidth Plot on Configuration IEEE 802.11g 10MHz Ant. 7-1 + Ant. 7-2 / 2437 MHz



Date: 22.JUN.2010 16:13:35

6 dB Bandwidth Plot on Configuration IEEE 802.11g 10MHz Ant. 7-1 + Ant. 7-2 / 2462 MHz



Date: 22.JUN.2010 16:16:46

4.4. Radiated Emissions Measurement

4.4.1. Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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

4.4.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

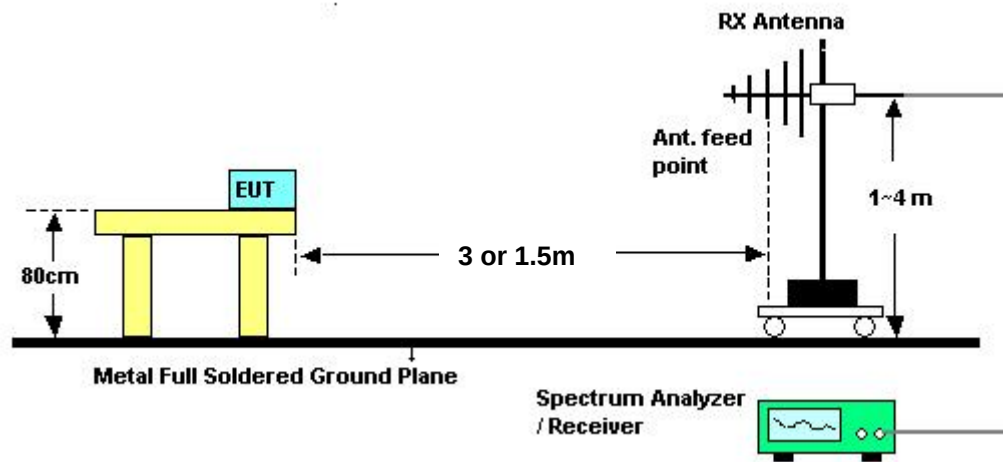
Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 3MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 3MHz for peak

4.4.3. Test Procedures

1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

4.4.4. Test Setup Layout

For radiated emissions above 30MHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1.5m.

Distance extrapolation factor = $20 \log (\text{specific distance [3m]} / \text{test distance [1.5m]})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

4.4.5. Test Deviation

There is no deviation with the original standard.

4.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.4.7. Results for Radiated Emissions (1GHz~10th Harmonic)

For Antenna 1 / Mode 1:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 5MHz CH 149 / Antenna 1 / Mode 1
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11490.23	51.55	60.00	-8.45	42.81	5.24	38.78	35.28	112	101	Average	HORIZONTAL
2	11490.32	69.06	80.00	-10.94	60.32	5.24	38.78	35.28	112	101	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11489.64	56.26	60.00	-3.74	47.52	5.24	38.78	35.28	270	100	Average	VERTICAL
2	11490.30	76.21	80.00	-3.79	67.47	5.24	38.78	35.28	270	100	Peak	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 5MHz CH 157 / Antenna 1 / Mode 1
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11570.40	49.27	60.00	-10.73	40.49	5.25	38.83	35.30	109	100	Average	HORIZONTAL
2	11570.46	66.19	80.00	-13.81	57.41	5.25	38.83	35.30	109	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11569.55	79.26	80.00	-0.74	70.48	5.25	38.83	35.30	265	142	Peak	VERTICAL
2	11569.56	57.93	60.00	-2.07	49.15	5.25	38.83	35.30	265	142	Average	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 5MHz CH 165 / Antenna 1 / Mode 1
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11649.56	46.86	60.00	-13.14	38.02	5.28	38.86	35.30	150	100	Average	HORIZONTAL
2	11650.45	65.11	80.00	-14.89	56.27	5.28	38.86	35.30	150	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11649.52	74.81	80.00	-5.19	65.97	5.28	38.86	35.30	270	100	Peak	VERTICAL
2	11649.58	53.58	60.00	-6.42	44.74	5.28	38.86	35.30	270	100	Average	VERTICAL

Note:

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 1 / Mode 2:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 10MHz CH 149 / Antenna 1 / Mode 2
Test Date	Jun. 16, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11490.44	69.00	80.00	-11.00	60.26	5.24	38.78	35.28	152	112	Peak	HORIZONTAL
2	11490.50	51.35	60.00	-8.65	42.61	5.24	38.78	35.28	152	112	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11490.45	69.12	80.00	-10.88	60.38	5.24	38.78	35.28	129	125	Peak	VERTICAL
2	11490.50	53.63	60.00	-6.37	44.89	5.24	38.78	35.28	129	125	Average	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 10MHz CH 157 / Antenna 1 / Mode 2
Test Date	Jun. 16, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11570.42	64.68	80.00	-15.32	55.90	5.25	38.83	35.30	148	138	Peak	HORIZONTAL
2	11570.50	47.28	60.00	-12.72	38.50	5.25	38.83	35.30	148	138	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11569.50	55.10	60.00	-4.90	46.32	5.25	38.83	35.30	265	137	Average	VERTICAL
2	11569.52	73.24	80.00	-6.76	64.46	5.25	38.83	35.30	265	137	Peak	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 10MHz CH 165 / Antenna 1 / Mode 2
Test Date	Jun. 16, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11650.43	64.85	80.00	-15.15	56.01	5.28	38.86	35.30	150	110	Peak	HORIZONTAL
2	11650.50	47.71	60.00	-12.29	38.87	5.28	38.86	35.30	150	110	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11649.50	51.63	60.00	-8.37	42.79	5.28	38.86	35.30	252	108	Average	VERTICAL
2	11649.53	71.80	80.00	-8.20	62.96	5.28	38.86	35.30	252	108	Peak	VERTICAL

Note:

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 2 / Mode 3:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 5MHz CH 149 / Antenna 2 / Mode 3
Test Date	Jun. 16, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11489.57	74.50	80.00	-5.50	65.76	5.24	38.78	35.28	151	115	Peak	HORIZONTAL
2	11490.44	54.92	60.00	-5.08	46.18	5.24	38.78	35.28	151	115	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11490.19	54.88	60.00	-5.12	46.14	5.24	38.78	35.28	160	114	Average	VERTICAL
2	11490.38	72.84	80.00	-7.16	64.10	5.24	38.78	35.28	160	114	Peak	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 5MHz CH 157 / Antenna 2 / Mode 3
Test Date	Jun. 16, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11570.24	73.29	80.00	-6.71	64.51	5.25	38.83	35.30	159	116	Peak	HORIZONTAL
2	11570.50	54.18	60.00	-5.82	45.40	5.25	38.83	35.30	159	116	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11569.76	76.64	80.00	-3.36	67.86	5.25	38.83	35.30	247	104	Peak	VERTICAL
2	11569.81	55.46	60.00	-4.54	46.68	5.25	38.83	35.30	247	104	Average	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 5MHz CH 165 / Antenna 2 / Mode 3
Test Date	Jun. 16, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11649.51	72.55	80.00	-7.45	63.71	5.28	38.86	35.30	150	113	Peak	HORIZONTAL
2	11649.56	51.41	60.00	-8.59	42.57	5.28	38.86	35.30	150	113	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11649.66	54.39	60.00	-5.61	45.55	5.28	38.86	35.30	247	108	Average	VERTICAL
2	11650.40	75.78	80.00	-4.22	66.94	5.28	38.86	35.30	247	108	Peak	VERTICAL

Note:

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 2 / Mode 4:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 10MHz CH 149 / Antenna 2 / Mode 4
Test Date	Jun. 16, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11490.45	70.81	80.00	-9.19	62.07	5.24	38.78	35.28	159	116	Peak	HORIZONTAL
2	11490.50	53.04	60.00	-6.96	44.30	5.24	38.78	35.28	159	116	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11489.54	69.68	80.00	-10.32	60.94	5.24	38.78	35.28	260	100	Peak	VERTICAL
2	11490.50	51.15	60.00	-8.85	42.41	5.24	38.78	35.28	260	100	Average	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 10MHz CH 157 / Antenna 2 / Mode 4
Test Date	Jun. 16, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11570.43	68.50	80.00	-11.50	59.72	5.25	38.83	35.30	151	110	Peak	HORIZONTAL
2	11570.50	51.47	60.00	-8.53	42.69	5.25	38.83	35.30	151	110	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11569.50	51.68	60.00	-8.32	42.90	5.25	38.83	35.30	257	105	Average	VERTICAL
2	11569.70	69.64	80.00	-10.36	60.86	5.25	38.83	35.30	257	105	Peak	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 10MHz CH 165 / Antenna 2 / Mode 4
Test Date	Jun. 16, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamplifier Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11650.39	66.72	80.00	-13.28	57.88	5.28	38.86	35.30	151	112 Peak	HORIZONTAL
2	11650.50	49.23	60.00	-10.77	40.39	5.28	38.86	35.30	151	112 Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamplifier Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11649.50	51.85	60.00	-8.15	43.01	5.28	38.86	35.30	249	108 Average	VERTICAL
2	11649.50	71.61	80.00	-8.39	62.77	5.28	38.86	35.30	249	108 Peak	VERTICAL

Note:

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 3 / Mode 5:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 5MHz CH 149 / Antenna 3 / Mode 5
Test Date	Jun. 17, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11489.95	50.50	60.00	-9.50	41.76	5.24	38.78	35.28	232	100	Average	HORIZONTAL
2	11490.39	70.31	80.00	-9.69	61.57	5.24	38.78	35.28	232	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11490.13	59.19	60.00	-0.81	50.45	5.24	38.78	35.28	241	108	Average	VERTICAL
2	11490.37	76.22	80.00	-3.78	67.48	5.24	38.78	35.28	241	108	Peak	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 5MHz CH 157 / Antenna 3 / Mode 5
Test Date	Jun. 17, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11569.51	76.61	80.00	-3.39	67.83	5.25	38.83	35.30	242	100	Peak	HORIZONTAL
2	11570.11	57.84	60.00	-2.16	49.06	5.25	38.83	35.30	242	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11570.19	58.48	60.00	-1.52	49.70	5.25	38.83	35.30	241	104	Average	VERTICAL
2	11570.30	76.73	80.00	-3.27	67.95	5.25	38.83	35.30	241	104	Peak	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 5MHz CH 165 / Antenna 3 / Mode 5
Test Date	Jun. 17, 2010		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11650.40	45.36	60.00	-14.64	36.52	5.28	38.86	35.30	236	106 Average	HORIZONTAL
2	11650.43	63.67	80.00	-16.33	54.83	5.28	38.86	35.30	236	106 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	11649.51	76.97	80.00	-3.03	68.13	5.28	38.86	35.30	243	100 Peak	VERTICAL
2	11649.68	55.34	60.00	-4.66	46.50	5.28	38.86	35.30	243	100 Average	VERTICAL

Note:

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 3 / Mode 6:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 10MHz CH 149 / Antenna 3 / Mode 6
Test Date	Jun. 17, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11490.38	49.69	60.00	-10.31	40.95	5.24	38.78	35.28	232	102	Average	HORIZONTAL
2	11490.45	67.38	80.00	-12.62	58.64	5.24	38.78	35.28	232	102	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11490.24	57.92	60.00	-2.08	49.18	5.24	38.78	35.28	240	103	Average	VERTICAL
2	11490.45	73.41	80.00	-6.59	64.67	5.24	38.78	35.28	240	103	Peak	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 10MHz CH 157 / Antenna 3 / Mode 6
Test Date	Jun. 17, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11570.00	63.93	80.00	-16.07	55.15	5.25	38.83	35.30	234	103	Peak	HORIZONTAL
2	11570.50	47.23	60.00	-12.77	38.45	5.25	38.83	35.30	234	103	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11570.48	56.92	60.00	-3.08	48.14	5.25	38.83	35.30	242	107	Average	VERTICAL
2	11570.48	74.46	80.00	-5.54	65.68	5.25	38.83	35.30	242	107	Peak	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 10MHz CH 165 / Antenna 3 / Mode 6
Test Date	Jun. 17, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11650.21	61.32	80.00	-18.68	52.48	5.28	38.86	35.30	230	100	Peak	HORIZONTAL
2	11650.50	43.49	60.00	-16.51	34.65	5.28	38.86	35.30	230	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11649.50	54.06	60.00	-5.94	45.22	5.28	38.86	35.30	245	100	Average	VERTICAL
2	11649.51	73.35	80.00	-6.65	64.51	5.28	38.86	35.30	245	100	Peak	VERTICAL

Note:

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 4 / Mode 7:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 5MHz CH 1 / Antenna 4 / Mode 7
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.92	57.27	74.00	-16.73	56.78	2.46	33.06	35.03	223	199	Peak	HORIZONTAL
2	4824.44	36.45	54.00	-17.55	35.96	2.46	33.06	35.03	223	199	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.63	62.23	74.00	-11.77	61.74	2.46	33.06	35.03	107	158	Peak	VERTICAL
2	4823.87	44.20	54.00	-9.80	43.71	2.46	33.06	35.03	107	158	Average	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 5MHz CH 6 / Antenna 4 / Mode 7
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	deg	cm		
1	7310.54	43.52	54.00	-10.48	39.28	3.68	35.96	35.40	361	196 Average	HORIZONTAL
2	7310.57	62.81	74.00	-11.19	58.57	3.68	35.96	35.40	361	196 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	deg	cm		
1	7310.62	73.90	74.00	-0.10	69.66	3.68	35.96	35.40	258	156 Peak	VERTICAL
2	7311.11	53.62	54.00	-0.38	49.38	3.68	35.96	35.40	258	156 Average	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 5MHz CH 11 / Antenna 4 / Mode 7
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7385.51	61.30	74.00	-12.70	56.92	3.69	36.09	35.40	267	182	Peak	HORIZONTAL
2	7386.05	42.19	54.00	-11.81	37.81	3.69	36.09	35.40	267	182	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7385.91	53.16	54.00	-0.84	48.78	3.69	36.09	35.40	286	177	Average	VERTICAL
2	7386.47	73.56	74.00	-0.44	69.18	3.69	36.09	35.40	286	177	Peak	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 5MHz CH 149 / Antenna 4 / Mode 7
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11490.27	67.43	80.00	-12.57	58.69	5.24	38.78	35.28	58	118	Peak	HORIZONTAL
2	11490.44	50.72	60.00	-9.28	41.98	5.24	38.78	35.28	58	118	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11489.79	74.75	80.00	-5.25	66.01	5.24	38.78	35.28	260	111	Peak	VERTICAL
2	11489.95	56.69	60.00	-3.31	47.95	5.24	38.78	35.28	260	111	Average	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 5MHz CH 157 / Antenna 4 / Mode 7
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11569.53	66.53	80.00	-13.47	57.75	5.25	38.83	35.30	60	121	Peak	HORIZONTAL
2	11570.23	50.26	60.00	-9.74	41.48	5.25	38.83	35.30	60	121	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11569.53	77.05	80.00	-2.95	68.27	5.25	38.83	35.30	256	101	Peak	VERTICAL
2	11569.79	56.03	60.00	-3.97	47.25	5.25	38.83	35.30	256	101	Average	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 5MHz CH 165 / Antenna 4 / Mode 7
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11649.51	64.71	80.00	-15.29	55.87	5.28	38.86	35.30	61	114	Peak	HORIZONTAL
2	11650.32	47.34	60.00	-12.66	38.50	5.28	38.86	35.30	61	114	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11649.50	55.45	60.00	-4.55	46.61	5.28	38.86	35.30	256	111	Average	VERTICAL
2	11650.47	76.43	80.00	-3.57	67.59	5.28	38.86	35.30	256	111	Peak	VERTICAL

Note:

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 4 / Mode 8:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 10MHz CH 1 / Antenna 4 / Mode 8
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.52	48.58	74.00	-25.42	48.09	2.46	33.06	35.03	219	181	Peak	HORIZONTAL
2	4823.93	34.85	54.00	-19.15	34.36	2.46	33.06	35.03	219	181	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.68	42.51	54.00	-11.49	42.02	2.46	33.06	35.03	106	156	Average	VERTICAL
2	4823.80	56.82	74.00	-17.18	56.33	2.46	33.06	35.03	106	156	Peak	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 10MHz CH 6 / Antenna 4 / Mode 8
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7310.51	59.85	74.00	-14.15	55.61	3.68	35.96	35.40	352	149	Peak	HORIZONTAL
2	7310.91	43.09	54.00	-10.91	38.85	3.68	35.96	35.40	352	149	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7311.13	53.74	54.00	-0.26	49.50	3.68	35.96	35.40	255	189	Average	VERTICAL
2	7311.31	71.05	74.00	-2.95	66.81	3.68	35.96	35.40	255	189	Peak	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 10MHz CH 11 / Antenna 4 / Mode 8
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamplifier Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7386.09	41.91	54.00	-12.09	37.53	3.69	36.09	35.40	347	173	Average	HORIZONTAL
2	7386.32	58.84	74.00	-15.16	54.46	3.69	36.09	35.40	347	173	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamplifier Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7385.79	53.02	54.00	-0.98	48.64	3.69	36.09	35.40	272	168	Average	VERTICAL
2	7386.38	70.08	74.00	-3.92	65.70	3.69	36.09	35.40	272	168	Peak	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 10MHz CH 149 / Antenna 4 / Mode 8
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11490.44	59.63	80.00	-20.37	50.89	5.24	38.78	35.28	57	100	Peak	HORIZONTAL
2	11490.48	45.40	60.00	-14.60	36.66	5.24	38.78	35.28	57	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11489.51	71.65	80.00	-8.35	62.91	5.24	38.78	35.28	263	100	Peak	VERTICAL
2	11489.66	54.24	60.00	-5.76	45.50	5.24	38.78	35.28	263	100	Average	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 10MHz CH 157 / Antenna 4 / Mode 8
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11570.22	62.54	80.00	-17.46	53.76	5.25	38.83	35.30	153	117	Peak	HORIZONTAL
2	11570.50	47.86	60.00	-12.14	39.08	5.25	38.83	35.30	153	117	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11569.54	54.44	60.00	-5.56	45.66	5.25	38.83	35.30	262	109	Average	VERTICAL
2	11569.59	72.36	80.00	-7.64	63.58	5.25	38.83	35.30	262	109	Peak	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11a 10MHz CH 165 / Antenna 4 / Mode 8
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11650.45	61.70	80.00	-18.30	52.86	5.28	38.86	35.30	155	118	Peak	HORIZONTAL
2	11650.50	45.32	60.00	-14.68	36.48	5.28	38.86	35.30	155	118	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	11649.50	52.73	60.00	-7.27	43.89	5.28	38.86	35.30	263	119	Average	VERTICAL
2	11649.53	71.39	80.00	-8.61	62.55	5.28	38.86	35.30	263	119	Peak	VERTICAL

Note:

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 5 / Mode 9:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 5MHz CH 1 / Antenna 5 / Mode 9
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4824.13	40.08	54.00	-13.92	39.59	2.46	33.06	35.03	148	100	Average	HORIZONTAL
2	4824.45	59.33	74.00	-14.67	58.84	2.46	33.06	35.03	148	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.79	70.73	74.00	-3.27	70.24	2.46	33.06	35.03	249	200	Peak	VERTICAL
2	4824.34	51.76	54.00	-2.24	51.27	2.46	33.06	35.03	249	200	Average	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 5MHz CH 6 / Antenna 5 / Mode 9
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7311.36	41.79	54.00	-12.21	37.55	3.68	35.96	35.40	244	152	Average	HORIZONTAL
2	7311.49	61.78	74.00	-12.22	57.54	3.68	35.96	35.40	244	152	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7310.52	73.98	74.00	-0.02	69.74	3.68	35.96	35.40	241	174	Peak	VERTICAL
2	7310.87	53.19	54.00	-0.81	48.95	3.68	35.96	35.40	241	174	Average	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 5MHz CH 11 / Antenna 5 / Mode 9
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7385.51	60.64	74.00	-13.36	56.26	3.69	36.09	35.40	112	186	Peak	HORIZONTAL
2	7386.32	41.14	54.00	-12.86	36.76	3.69	36.09	35.40	112	186	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7386.24	73.76	74.00	-0.24	69.38	3.69	36.09	35.40	242	152	Peak	VERTICAL
2	7386.32	53.16	54.00	-0.84	48.78	3.69	36.09	35.40	242	152	Average	VERTICAL

Note:

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 5 / Mode 10:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 10MHz CH 1 / Antenna 5 / Mode 10
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4824.44	42.55	54.00	-11.45	42.06	2.46	33.06	35.03	249	159	Average	HORIZONTAL
2	4824.45	60.77	74.00	-13.23	60.28	2.46	33.06	35.03	249	159	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4824.45	67.68	74.00	-6.32	67.19	2.46	33.06	35.03	249	189	Peak	VERTICAL
2	4824.48	49.60	54.00	-4.40	49.11	2.46	33.06	35.03	249	189	Average	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 10MHz CH 6 / Antenna 5 / Mode 10
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7310.51	54.09	74.00	-19.91	49.85	3.68	35.96	35.40	97	100	Peak	HORIZONTAL
2	7310.89	37.07	54.00	-16.93	32.83	3.68	35.96	35.40	97	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7310.85	52.93	54.00	-1.07	48.69	3.68	35.96	35.40	246	187	Average	VERTICAL
2	7311.28	70.62	74.00	-3.38	66.38	3.68	35.96	35.40	246	187	Peak	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 10MHz CH 11 / Antenna 5 / Mode 10
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7386.30	42.33	54.00	-11.67	37.95	3.69	36.09	35.40	149	150	Average	HORIZONTAL
2	7386.46	59.71	74.00	-14.29	55.33	3.69	36.09	35.40	149	150	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7385.93	53.80	54.00	-0.20	49.42	3.69	36.09	35.40	246	200	Average	VERTICAL
2	7386.17	71.86	74.00	-2.14	67.48	3.69	36.09	35.40	246	200	Peak	VERTICAL

Note:

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 6 / Mode 11:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 5MHz CH 1 / Antenna 6 / Mode 11
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.64	60.04	74.00	-13.96	59.55	2.46	33.06	35.03	139	100	Peak	HORIZONTAL
2	4824.42	40.83	54.00	-13.17	40.34	2.46	33.06	35.03	139	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.92	69.59	74.00	-4.41	69.10	2.46	33.06	35.03	118	187	Peak	VERTICAL
2	4824.34	51.33	54.00	-2.67	50.84	2.46	33.06	35.03	118	187	Average	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 5MHz CH 6 / Antenna 6 / Mode 11
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7310.87	42.67	54.00	-11.33	38.43	3.68	35.96	35.40	145	151	Average	HORIZONTAL
2	7311.41	62.25	74.00	-11.75	58.01	3.68	35.96	35.40	145	151	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7310.93	53.65	54.00	-0.35	49.41	3.68	35.96	35.40	275	195	Average	VERTICAL
2	7311.50	73.16	74.00	-0.84	68.92	3.68	35.96	35.40	275	195	Peak	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 5MHz CH 11 / Antenna 6 / Mode 11
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	7385.91	42.78	54.00	-11.22	38.40	3.69	36.09	35.40	152	100 Average	HORIZONTAL
2	7386.48	61.45	74.00	-12.55	57.07	3.69	36.09	35.40	152	100 Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	7385.53	72.47	74.00	-1.53	68.09	3.69	36.09	35.40	249	153 Peak	VERTICAL
2	7386.15	53.97	54.00	-0.03	49.59	3.69	36.09	35.40	249	153 Average	VERTICAL

Note:

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 6 / Mode 12:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 10MHz CH 1 / Antenna 6 / Mode 12
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4824.39	56.25	74.00	-17.75	55.76	2.46	33.06	35.03	157	186	Peak	HORIZONTAL
2	4824.50	39.51	54.00	-14.49	39.02	2.46	33.06	35.03	157	186	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4824.41	65.45	74.00	-8.55	64.96	2.46	33.06	35.03	113	191	Peak	VERTICAL
2	4824.46	47.34	54.00	-6.66	46.85	2.46	33.06	35.03	113	191	Average	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 10MHz CH 6 / Antenna 6 / Mode 12
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7310.54	42.66	54.00	-11.34	38.42	3.68	35.96	35.40	145	151	Average	HORIZONTAL
2	7310.59	59.61	74.00	-14.39	55.37	3.68	35.96	35.40	145	151	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7311.03	52.46	54.00	-1.54	48.22	3.68	35.96	35.40	250	198	Average	VERTICAL
2	7311.04	69.68	74.00	-4.32	65.44	3.68	35.96	35.40	250	198	Peak	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 10MHz CH 11 / Antenna 6 / Mode 12
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7385.86	59.30	74.00	-14.70	54.92	3.69	36.09	35.40	151	100	Peak	HORIZONTAL
2	7386.40	42.98	54.00	-11.02	38.60	3.69	36.09	35.40	151	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7386.30	53.50	54.00	-0.50	49.12	3.69	36.09	35.40	95	198	Average	VERTICAL
2	7386.42	69.56	74.00	-4.44	65.18	3.69	36.09	35.40	95	198	Peak	VERTICAL

Note:

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 7 / Mode 13:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 5MHz CH 1 / Antenna 7 / Mode 13
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4824.30	39.56	54.00	-14.44	39.07	2.46	33.06	35.03	129	100	Average	HORIZONTAL
2	4824.45	58.16	74.00	-15.84	57.67	2.46	33.06	35.03	129	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4823.60	68.95	74.00	-5.05	68.46	2.46	33.06	35.03	111	187	Peak	VERTICAL
2	4824.25	49.18	54.00	-4.82	48.69	2.46	33.06	35.03	111	187	Average	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 5MHz CH 6 / Antenna 7 / Mode 13
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7310.54	60.04	74.00	-13.96	55.80	3.68	35.96	35.40	177	147	Peak	HORIZONTAL
2	7310.95	41.48	54.00	-12.52	37.24	3.68	35.96	35.40	177	147	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7310.58	73.43	74.00	-0.57	69.19	3.68	35.96	35.40	247	178	Peak	VERTICAL
2	7311.03	53.07	54.00	-0.93	48.83	3.68	35.96	35.40	247	178	Average	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 5MHz CH 11 / Antenna 7 / Mode 13
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7385.98	62.41	74.00	-11.59	58.03	3.69	36.09	35.40	197	142	Peak	HORIZONTAL
2	7385.99	43.80	54.00	-10.20	39.42	3.69	36.09	35.40	197	142	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7385.95	53.90	54.00	-0.10	49.52	3.69	36.09	35.40	248	159	Average	VERTICAL
2	7386.26	73.53	74.00	-0.47	69.15	3.69	36.09	35.40	248	159	Peak	VERTICAL

Note:

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 7 / Mode 13:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 10MHz CH 1 / Antenna 7 / Mode 14
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4824.45	56.43	74.00	-17.57	55.94	2.46	33.06	35.03	130	124	Peak	HORIZONTAL
2	4824.50	39.17	54.00	-14.83	38.68	2.46	33.06	35.03	130	124	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	4824.38	65.25	74.00	-8.75	64.76	2.46	33.06	35.03	268	132	Peak	VERTICAL
2	4824.50	47.48	54.00	-6.52	46.99	2.46	33.06	35.03	268	132	Average	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 10MHz CH 6 / Antenna 7 / Mode 14
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7310.58	41.63	54.00	-12.37	37.39	3.68	35.96	35.40	177	147	Average	HORIZONTAL
2	7310.96	57.52	74.00	-16.48	53.28	3.68	35.96	35.40	177	147	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase	
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7310.87	52.48	54.00	-1.52	48.24	3.68	35.96	35.40	245	161	Average	VERTICAL
2	7311.05	69.76	74.00	-4.24	65.52	3.68	35.96	35.40	245	161	Peak	VERTICAL

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 10MHz CH 11 / Antenna 7 / Mode 14
Test Date	Jun. 15, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7385.99	60.36	74.00	-13.64	55.98	3.69	36.09	35.40	198	136	Peak	HORIZONTAL
2	7386.38	43.97	54.00	-10.03	39.59	3.69	36.09	35.40	198	136	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	7386.44	71.06	74.00	-2.94	66.68	3.69	36.09	35.40	250	155	Peak	VERTICAL
2	7386.50	53.60	54.00	-0.40	49.22	3.69	36.09	35.40	250	155	Average	VERTICAL

Note:

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

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

4.5. Band Edge Emissions Measurement

4.5.1. Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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

4.5.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (Emission in restricted band)	1 MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	100 KHz /100 KHz for Peak

4.5.3. Test Procedures

1. The test procedure is the same as section 4.5.3, only the frequency range investigated is limited to 100MHz around bandedges.
2. In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice DA00-705 will be followed.

4.5.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.5.4.

4.5.5. Test Deviation

There is no deviation with the original standard.

4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.5.7. Test Result of Band Edge and Fundamental Emissions

For Antenna 4 / Mode 7:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 5MHz CH 1, 6, 11 / Antenna 4 / Mode 7
Test Date	Jun. 15, 2010		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2387.40	68.19	74.00	-5.81	38.26	1.76	28.17	0.00	105	100	Peak	VERTICAL
2	2390.00	52.24	54.00	-1.76	22.31	1.76	28.17	0.00	105	100	Average	VERTICAL
3	2410.60	122.71	74.00			1.77	28.21	0.00	105	100	Peak	VERTICAL
4	2411.00	110.09	54.00			1.77	28.21	0.00	105	100	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2388.20	50.65	54.00	-3.35	20.72	1.76	28.17	0.00	105	100	Average	VERTICAL
2	2389.00	62.71	74.00	-11.29	32.78	1.76	28.17	0.00	105	100	Peak	VERTICAL
3	2437.80	107.27	54.00			1.78	28.29	0.00	105	100	Average	VERTICAL
4	2438.60	118.79	74.00			1.78	28.29	0.00	105	100	Peak	VERTICAL
5	2483.50	57.31	74.00	-16.69	27.13	1.81	28.37	0.00	105	100	Peak	VERTICAL
6	2485.90	45.35	54.00	-8.65	15.13	1.81	28.41	0.00	105	100	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamplifier Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2461.20	104.59	54.00			1.80	28.33	0.00	33	172	Average	VERTICAL
2	2461.20	117.07	74.00			1.80	28.33	0.00	33	172	Peak	VERTICAL
3	2483.50	46.15	54.00	-7.85	15.97	1.81	28.37	0.00	33	172	Average	VERTICAL
4	2484.30	60.06	74.00	-13.94	29.88	1.81	28.37	0.00	33	172	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamplifier Factor = Level.

For Antenna 4 / Mode 8:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 10MHz CH 1, 6, 11 / Antenna 4 / Mode 8
Test Date	Jun. 15, 2010		

Channel 1

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2389.60	70.25	74.00	-3.75	40.32	1.76	28.17	0.00	105	100	Peak	VERTICAL
2	2390.00	52.95	54.00	-1.05	23.02	1.76	28.17	0.00	105	100	Average	VERTICAL
3	2409.20	108.33	54.00			1.77	28.21	0.00	105	100	Average	VERTICAL
4	2409.80	119.75	74.00			1.77	28.21	0.00	105	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2389.20	51.93	54.00	-2.07	22.00	1.76	28.17	0.00	105	100	Average	VERTICAL
2	2389.80	65.01	74.00	-8.99	35.08	1.76	28.17	0.00	105	100	Peak	VERTICAL
3	2438.40	105.95	54.00			1.78	28.29	0.00	105	100	Average	VERTICAL
4	2439.40	117.52	74.00			1.78	28.29	0.00	105	100	Peak	VERTICAL
5	2483.50	46.47	54.00	-7.53	16.29	1.81	28.37	0.00	105	100	Average	VERTICAL
6	2483.90	58.44	74.00	-15.56	28.26	1.81	28.37	0.00	105	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2458.60	115.45	74.00			1.80	28.33	0.00	105	99	Peak	VERTICAL
2	2459.80	103.88	54.00			1.80	28.33	0.00	105	99	Average	VERTICAL
3	2483.50	48.67	54.00	-5.33	18.49	1.81	28.37	0.00	105	99	Average	VERTICAL
4	2484.50	65.38	74.00	-8.62	35.20	1.81	28.37	0.00	105	99	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 5 / Mode 9:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 5MHz CH 1, 6, 11 / Antenna 5 / Mode 9
Test Date	Jun. 15, 2010		

Channel1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	2369.40	51.03	54.00	-2.97	21.16	1.74	28.13	0.00	360	100 Average	VERTICAL
2	2387.40	65.37	74.00	-8.63	35.44	1.76	28.17	0.00	360	100 Peak	VERTICAL
3	2411.40	107.37	54.00			1.77	28.21	0.00	360	100 Average	VERTICAL
4	2413.20	118.07	74.00			1.77	28.21	0.00	360	100 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	2387.40	47.95	54.00	-6.05	18.02	1.76	28.17	0.00	360	100 Average	VERTICAL
2	2388.40	59.81	74.00	-14.19	29.88	1.76	28.17	0.00	360	100 Peak	VERTICAL
3	2436.20	104.18	54.00			1.78	28.29	0.00	360	100 Average	VERTICAL
4	2436.60	116.48	74.00			1.78	28.29	0.00	360	100 Peak	VERTICAL
5	2483.50	44.52	54.00	-9.48	14.34	1.81	28.37	0.00	360	100 Average	VERTICAL
6	2484.50	55.82	74.00	-18.18	25.64	1.81	28.37	0.00	360	100 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	2461.20	105.00	54.00			1.80	28.33	0.00	360	100 Average	VERTICAL
2	2462.20	116.18	74.00			1.80	28.33	0.00	360	100 Peak	VERTICAL
3	2485.30	56.15	74.00	-17.85	25.93	1.81	28.41	0.00	360	100 Peak	VERTICAL
4	2500.00	45.68	54.00	-8.32	15.46	1.81	28.41	0.00	360	100 Average	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 5 / Mode 10:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 10MHz CH 1, 6, 11 / Antenna 5 / Mode 10
Test Date	Jun. 15, 2010		

Channel1

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2390.00	52.83	54.00	-1.17	22.90	1.76	28.17	0.00	0	100	Average	VERTICAL
2	2390.00	67.38	74.00	-6.62	37.45	1.76	28.17	0.00	0	100	Peak	VERTICAL
3	2409.00	105.29	54.00			1.77	28.21	0.00	0	100	Average	VERTICAL
4	2410.60	116.25	74.00			1.77	28.21	0.00	0	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2388.20	47.70	54.00	-6.30	17.77	1.76	28.17	0.00	0	100	Average	VERTICAL
2	2388.60	59.72	74.00	-14.28	29.79	1.76	28.17	0.00	0	100	Peak	VERTICAL
3	2434.00	102.33	54.00			1.78	28.29	0.00	0	100	Average	VERTICAL
4	2439.20	113.66	74.00			1.78	28.29	0.00	0	100	Peak	VERTICAL
5	2483.50	44.62	54.00	-9.38	14.44	1.81	28.37	0.00	0	100	Average	VERTICAL
6	2484.30	56.51	74.00	-17.49	26.33	1.81	28.37	0.00	0	100	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2459.00	103.27	54.00			1.80	28.33	0.00	360	100	Average	VERTICAL
2	2460.40	114.93	74.00			1.80	28.33	0.00	360	100	Peak	VERTICAL
3	2483.50	45.69	54.00	-8.31	15.51	1.81	28.37	0.00	360	100	Average	VERTICAL
4	2484.50	58.91	74.00	-15.09	28.73	1.81	28.37	0.00	360	100	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 6 / Mode 11:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 5MHz CH 1, 6, 11 / Antenna 6 / Mode 11
Test Date	Jun. 15, 2010		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	2380.40	51.85	54.00	-2.15	21.96	1.76	28.13	0.00	351	134 Average	VERTICAL
2	2384.40	68.62	74.00	-5.38	38.69	1.76	28.17	0.00	351	134 Peak	VERTICAL
3	2410.80	121.48	74.00			1.77	28.21	0.00	351	134 Peak	VERTICAL
4	2411.20	110.37	54.00			1.77	28.21	0.00	351	134 Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	2387.60	48.27	54.00	-5.73	18.34	1.76	28.17	0.00	353	135 Average	VERTICAL
2	2389.00	60.02	74.00	-13.98	30.09	1.76	28.17	0.00	353	135 Peak	VERTICAL
3	2436.80	117.16	74.00			1.78	28.29	0.00	353	135 Peak	VERTICAL
4	2437.60	105.75	54.00			1.78	28.29	0.00	353	135 Average	VERTICAL
5	2483.50	46.58	54.00	-7.42	16.40	1.81	28.37	0.00	353	135 Average	VERTICAL
6	2483.50	58.59	74.00	-15.41	28.41	1.81	28.37	0.00	353	135 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	deg	cm		
1	2462.60	106.45	54.00			1.80	28.33	0.00	354	122 Average	VERTICAL
2	2463.60	118.04	74.00			1.80	28.33	0.00	354	122 Peak	VERTICAL
3	2483.50	47.08	54.00	-6.92	16.90	1.81	28.37	0.00	354	122 Average	VERTICAL
4	2483.70	59.26	74.00	-14.74	29.08	1.81	28.37	0.00	354	122 Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 6 / Mode 12:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 10MHz CH 1, 6, 11 / Antenna 6 / Mode 12
Test Date	Jun. 15, 2010		

Channel 1

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2390.00	52.54	54.00	-1.46	22.61	1.76	28.17	0.00	360	131	Average	VERTICAL
2	2390.00	70.14	74.00	-3.86	40.21	1.76	28.17	0.00	360	131	Peak	VERTICAL
3	2410.20	108.26	54.00			1.77	28.21	0.00	360	131	Average	VERTICAL
4	2410.40	120.05	74.00			1.77	28.21	0.00	360	131	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2388.40	47.73	54.00	-6.27	17.80	1.76	28.17	0.00	360	135	Average	VERTICAL
2	2389.80	59.64	74.00	-14.36	29.71	1.76	28.17	0.00	360	135	Peak	VERTICAL
3	2438.20	115.74	74.00			1.78	28.29	0.00	360	135	Peak	VERTICAL
4	2439.40	103.91	54.00			1.78	28.29	0.00	360	135	Average	VERTICAL
5	2483.50	46.62	54.00	-7.38	16.44	1.81	28.37	0.00	360	135	Average	VERTICAL
6	2484.10	58.25	74.00	-15.75	28.07	1.81	28.37	0.00	360	135	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2461.60	104.35	54.00			1.80	28.33	0.00	360	137	Average	VERTICAL
2	2462.80	116.65	74.00			1.80	28.33	0.00	360	137	Peak	VERTICAL
3	2483.50	50.19	54.00	-3.81	20.01	1.81	28.37	0.00	360	137	Average	VERTICAL
4	2483.50	63.68	74.00	-10.32	33.50	1.81	28.37	0.00	360	137	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 7 / Mode 13:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 5MHz CH 1, 6, 11 / Antenna 7 / Mode 13
Test Date	Jun. 15, 2010		

Channel 1

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2366.00	48.97	54.00	-5.03	19.10	1.74	28.13	0.00	88	134	Average	VERTICAL
2	2384.00	61.70	74.00	-12.30	31.77	1.76	28.17	0.00	88	134	Peak	VERTICAL
3	2412.60	103.44	54.00			1.77	28.21	0.00	88	134	Average	VERTICAL
4	2414.00	114.21	74.00			1.77	28.21	0.00	88	134	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2387.00	45.11	54.00	-8.89	15.18	1.76	28.17	0.00	91	134	Average	VERTICAL
2	2387.20	56.76	74.00	-17.24	26.83	1.76	28.17	0.00	91	134	Peak	VERTICAL
3	2437.60	101.38	54.00			1.78	28.29	0.00	91	134	Average	VERTICAL
4	2437.80	111.82	74.00			1.78	28.29	0.00	91	134	Peak	VERTICAL
5	2485.30	43.49	54.00	-10.51	13.27	1.81	28.41	0.00	91	134	Average	VERTICAL
6	2486.30	54.08	74.00	-19.92	23.86	1.81	28.41	0.00	91	134	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2460.60	102.62	54.00			1.80	28.33	0.00	236	150	Average	VERTICAL
2	2460.80	112.59	74.00			1.80	28.33	0.00	236	150	Peak	VERTICAL
3	2495.10	44.56	54.00	-9.44	14.34	1.81	28.41	0.00	236	150	Average	VERTICAL
4	2498.10	57.59	74.00	-16.41	27.37	1.81	28.41	0.00	236	150	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Antenna 7 / Mode 14:

Temperature	23°C	Humidity	60%
Test Engineer	Alan Huang	Configurations	IEEE 802.11g 10MHz CH 1, 6, 11 / Antenna 7 / Mode 14
Test Date	Jun. 15, 2010		

Channel 1

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2367.40	48.95	54.00	-5.05	19.08	1.74	28.13	0.00	91	132	Average	VERTICAL
2	2388.60	62.65	74.00	-11.35	32.72	1.76	28.17	0.00	91	132	Peak	VERTICAL
3	2414.40	100.82	54.00			1.77	28.21	0.00	91	132	Average	VERTICAL
4	2415.00	112.72	74.00			1.77	28.21	0.00	91	132	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2387.80	46.09	54.00	-7.91	16.16	1.76	28.17	0.00	262	137	Average	VERTICAL
2	2389.40	58.01	74.00	-15.99	28.08	1.76	28.17	0.00	262	137	Peak	VERTICAL
3	2435.20	102.38	54.00			1.78	28.29	0.00	262	137	Average	VERTICAL
4	2435.40	114.41	74.00			1.78	28.29	0.00	262	137	Peak	VERTICAL
5	2483.50	44.02	54.00	-9.98	13.84	1.81	28.37	0.00	262	137	Average	VERTICAL
6	2484.70	55.13	74.00	-18.87	24.95	1.81	28.37	0.00	262	137	Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm		
1	2458.80	99.70	54.00			1.80	28.33	0.00	140	148	Average	VERTICAL
2	2460.40	111.28	74.00			1.80	28.33	0.00	140	148	Peak	VERTICAL
3	2483.50	45.66	54.00	-8.34	15.48	1.81	28.37	0.00	140	148	Average	VERTICAL
4	2489.30	59.39	74.00	-14.61	29.17	1.81	28.41	0.00	140	148	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2462 MHz.

Note:

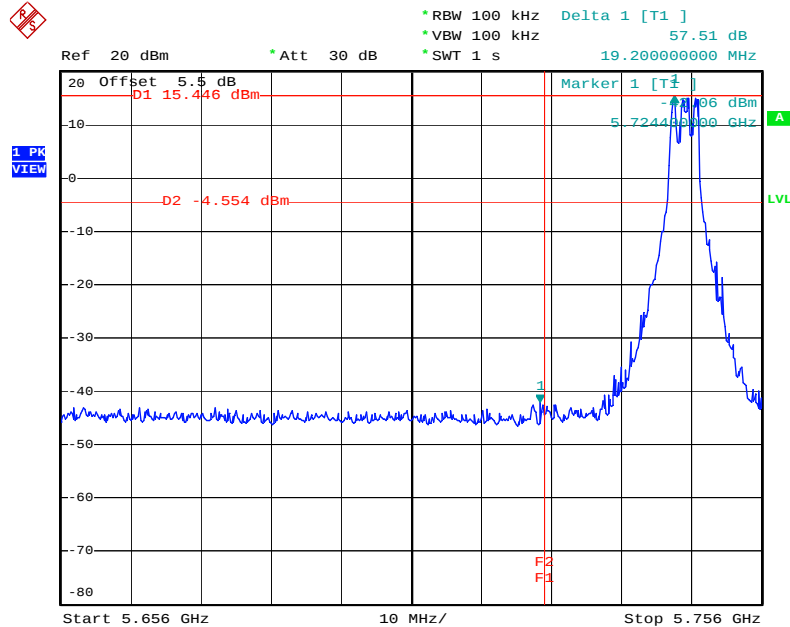
Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

For Emission not in Restricted Band

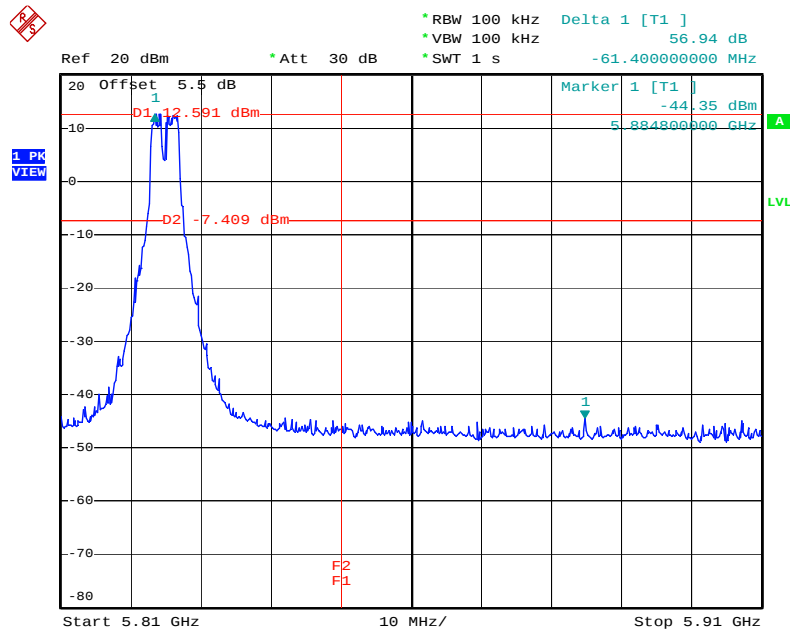
For Antenna 1 / Mode 1:

Low Band Edge Plot on Configuration IEEE 802.11a 5MHz Ant. 1 / 5745 MHz



Date: 22.JUN.2010 14:26:06

High Band Edge Plot on Configuration IEEE 802.11a 5MHz Ant. 1 / 5825 MHz

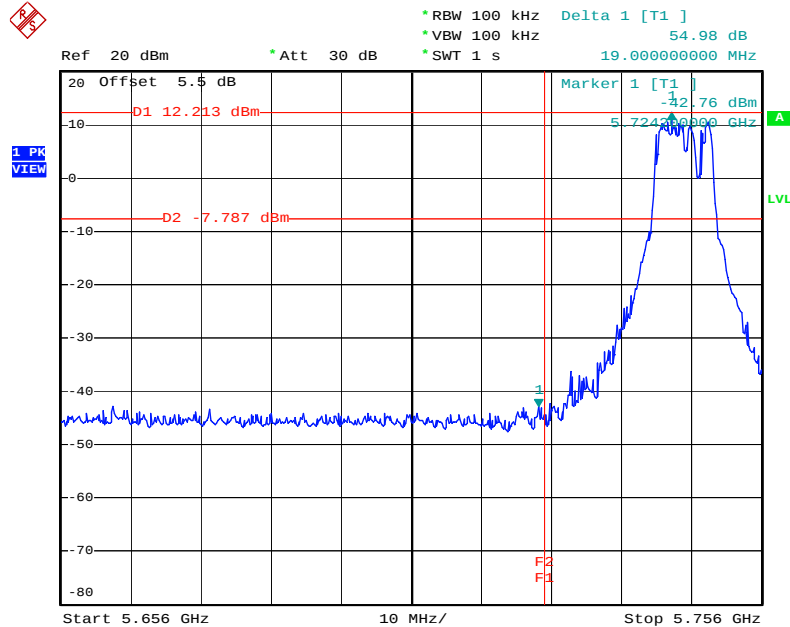


Date: 22.JUN.2010 14:42:36

For Emission not in Restricted Band

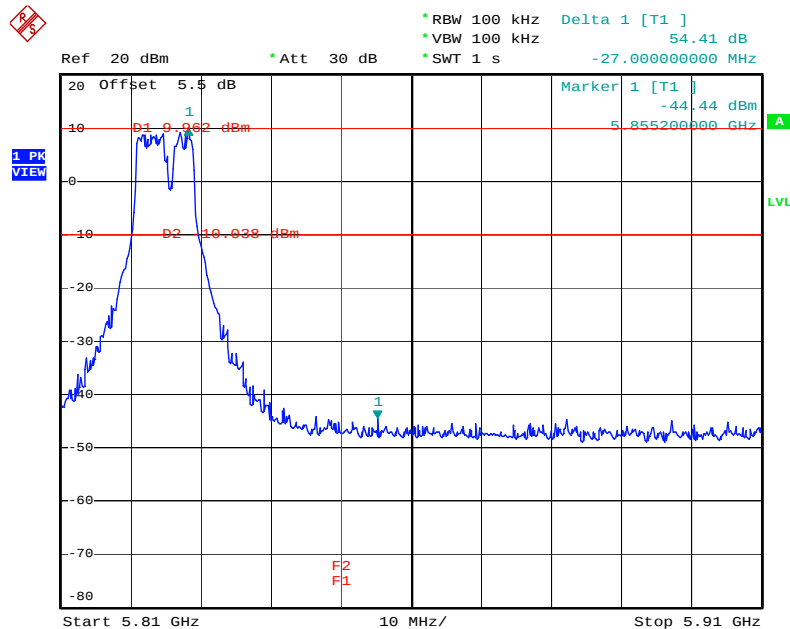
For Antenna 1 / Mode 2:

Low Band Edge Plot on Configuration IEEE 802.11a 10MHz Ant. 1 / 5745 MHz



Date: 22.JUN.2010 16:21:49

High Band Edge Plot on Configuration IEEE 802.11a 10MHz Ant. 1 / 5825 MHz

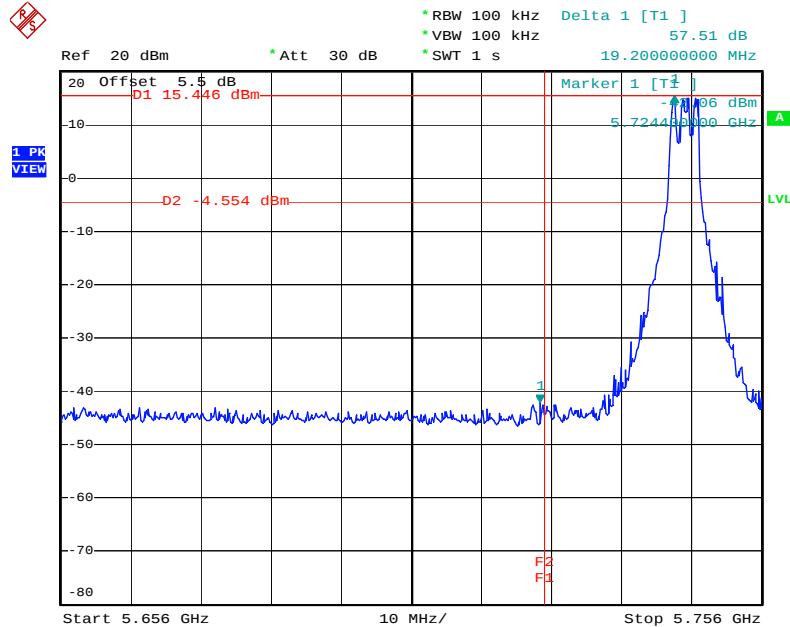


Date: 22.JUN.2010 16:26:00

For Emission not in Restricted Band

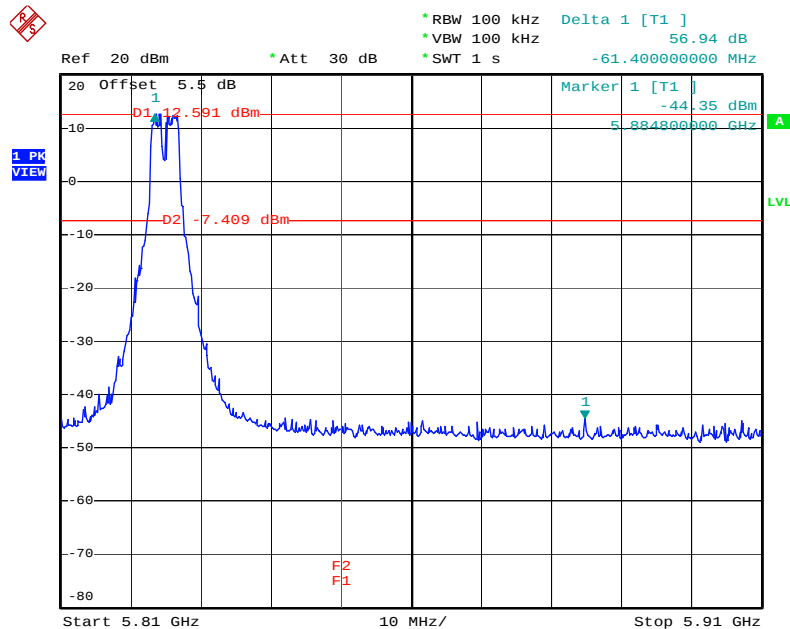
For Antenna 2 / Mode 3:

Low Band Edge Plot on Configuration IEEE 802.11a 5MHz Ant. 2 / 5745 MHz



Date: 22.JUN.2010 14:26:06

High Band Edge Plot on Configuration IEEE 802.11a 5MHz Ant. 2 / 5825 MHz

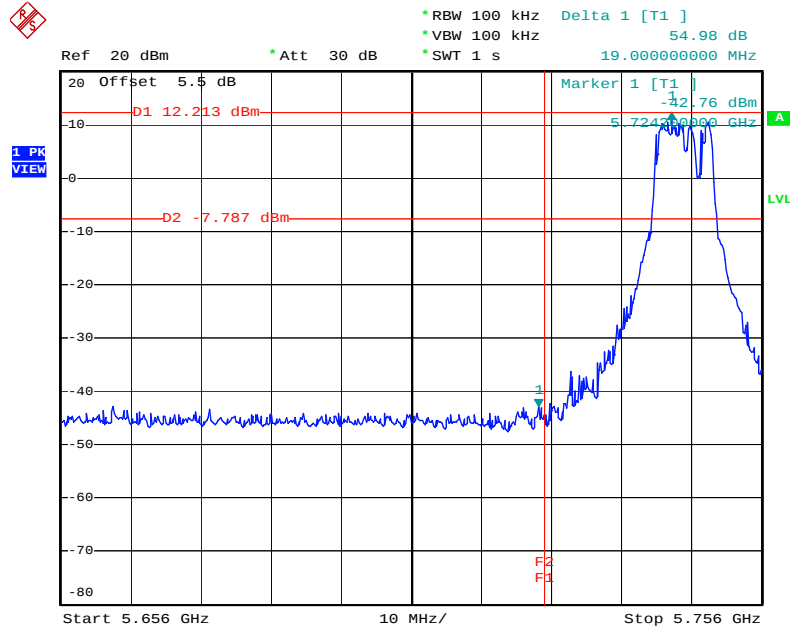


Date: 22.JUN.2010 14:42:36

For Emission not in Restricted Band

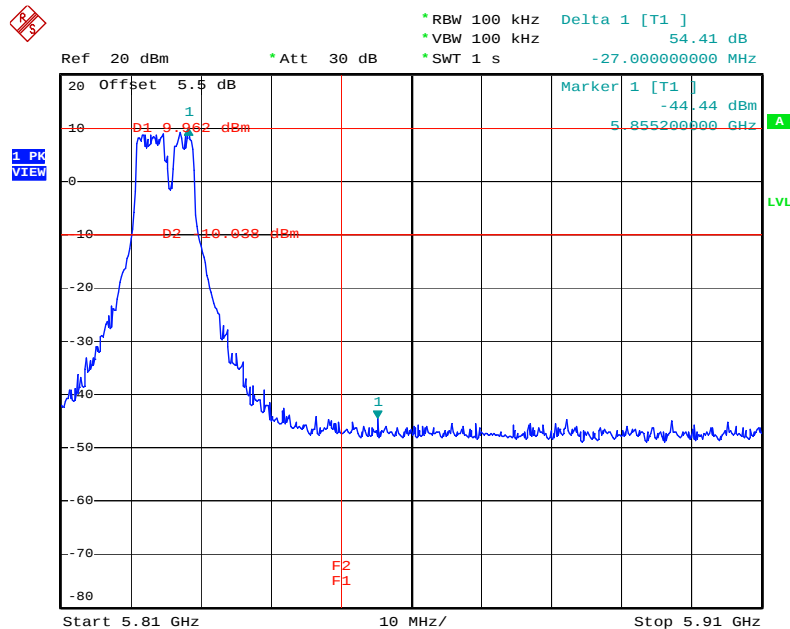
For Antenna 2 / Mode 4:

Low Band Edge Plot on Configuration IEEE 802.11a 10MHz Ant. 2 / 5745 MHz



Date: 22.JUN.2010 16:21:49

High Band Edge Plot on Configuration IEEE 802.11a 10MHz Ant. 2 / 5825 MHz

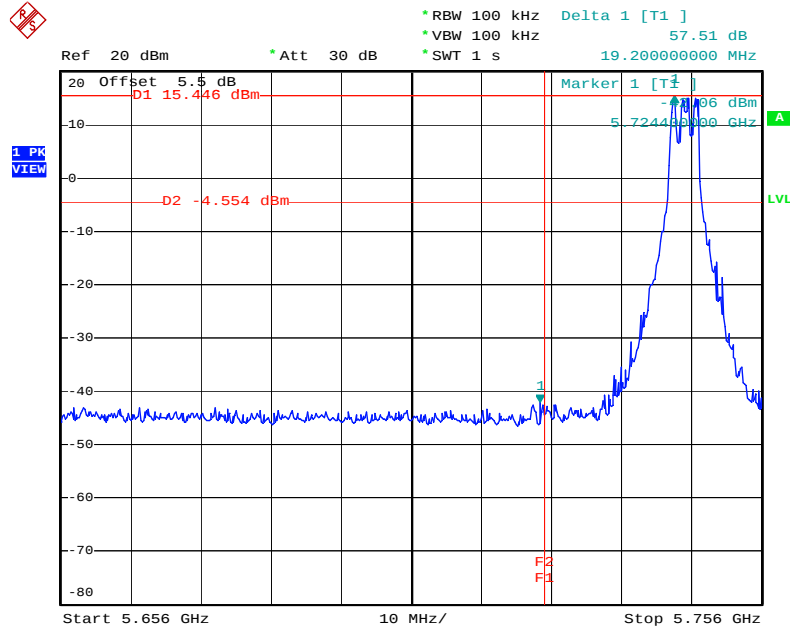


Date: 22.JUN.2010 16:26:00

For Emission not in Restricted Band

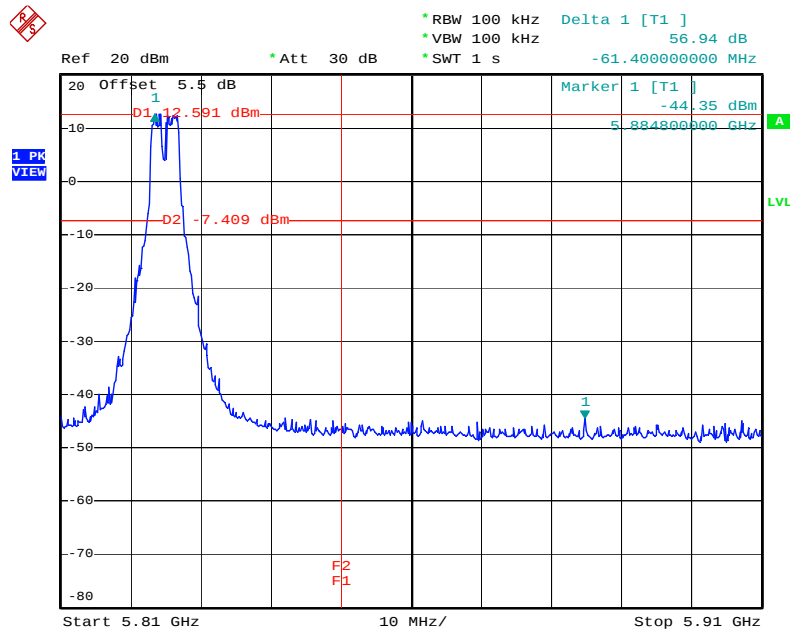
For Antenna 3 / Mode 5:

Low Band Edge Plot on Configuration IEEE 802.11a 5MHz Ant. 3 / 5745 MHz



Date: 22.JUN.2010 14:26:06

High Band Edge Plot on Configuration IEEE 802.11a 5MHz Ant. 3 / 5825 MHz

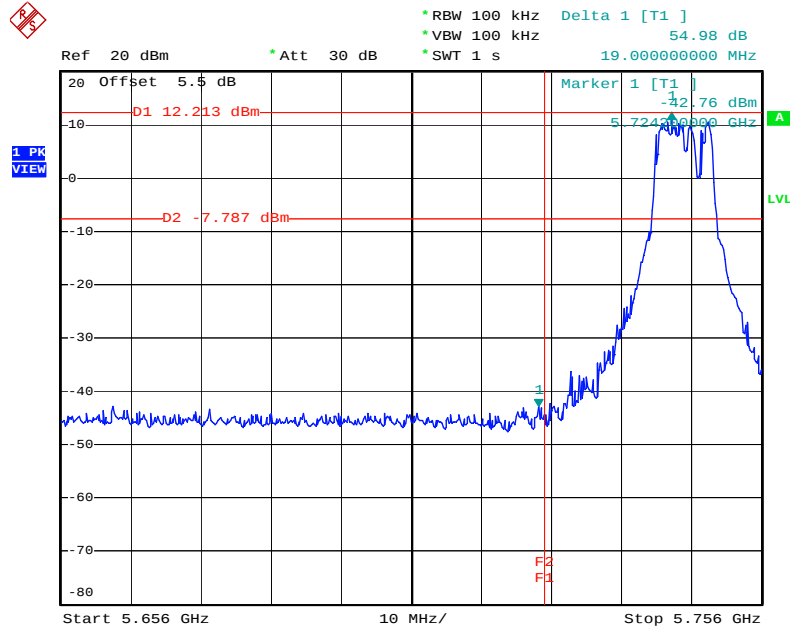


Date: 22.JUN.2010 14:42:36

For Emission not in Restricted Band

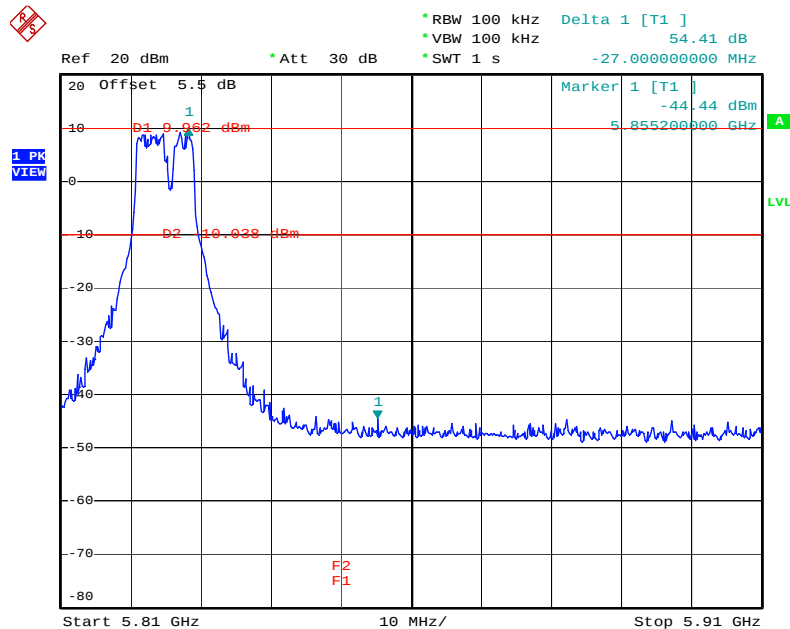
For Antenna 3 / Mode 6:

Low Band Edge Plot on Configuration IEEE 802.11a 10MHz Ant. 3 / 5745 MHz



Date: 22.JUN.2010 16:21:49

High Band Edge Plot on Configuration IEEE 802.11a 10MHz Ant. 3 / 5825 MHz

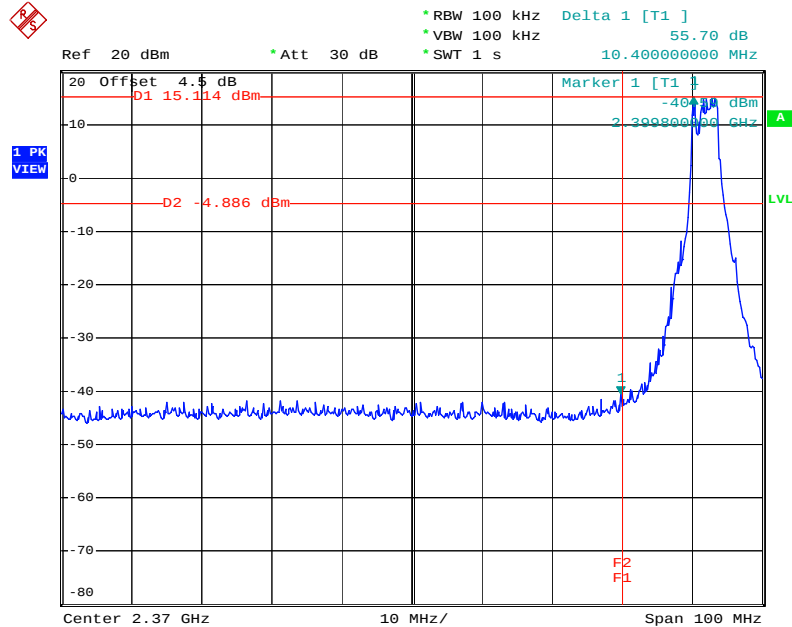


Date: 22.JUN.2010 16:26:00

For Emission not in Restricted Band

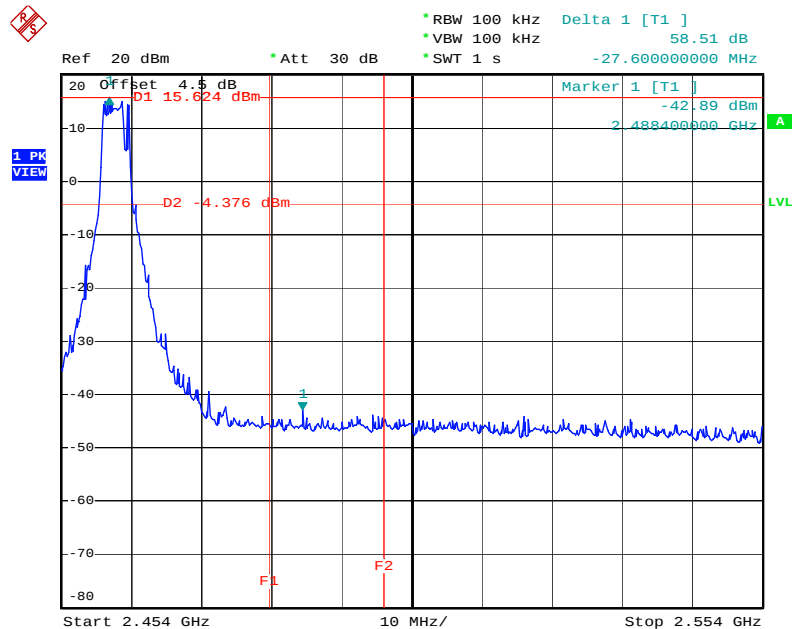
For Antenna 4 / Mode 7:

Low Band Edge Plot on Configuration IEEE 802.11g 5MHz Ant. 4 / 2412 MHz



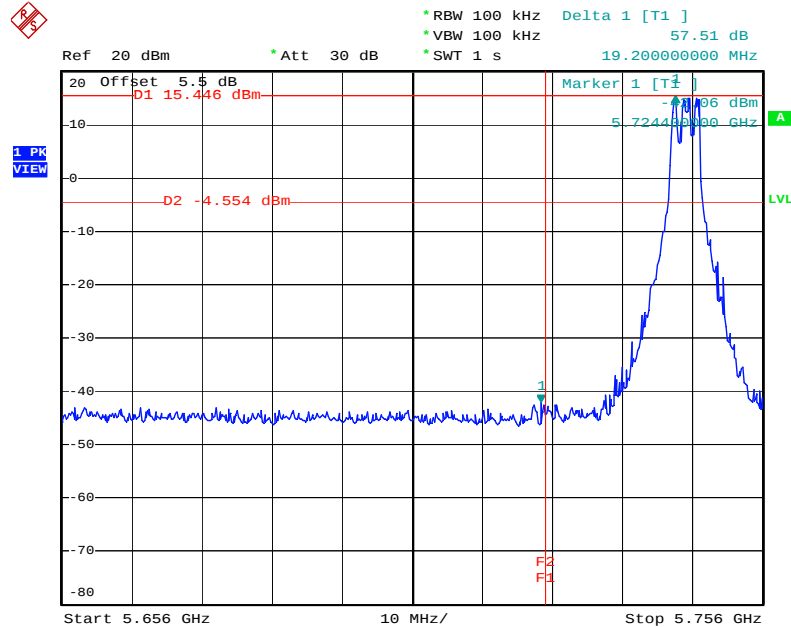
Date: 22.JUN.2010 17:48:15

High Band Edge Plot on Configuration IEEE 802.11g 5MHz Ant. 4 / 2462 MHz



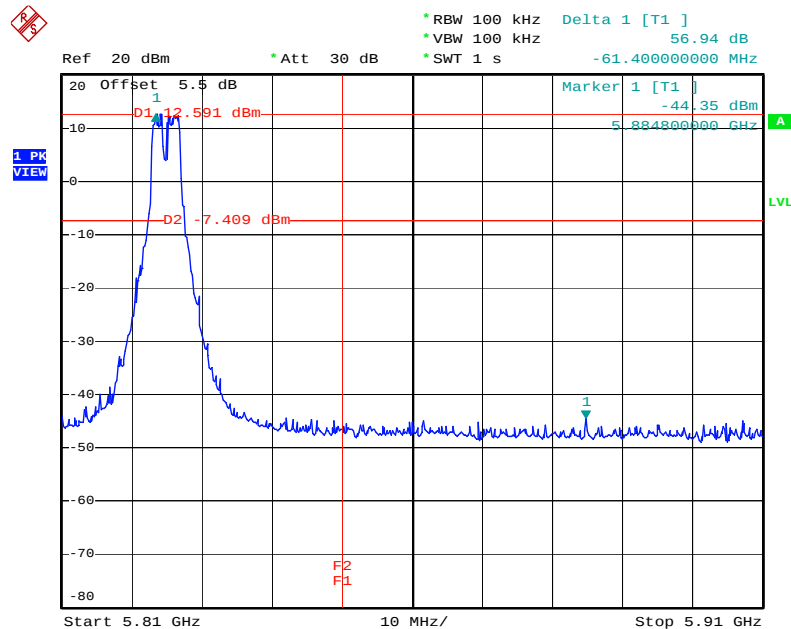
Date: 22.JUN.2010 17:05:46

Low Band Edge Plot on Configuration IEEE 802.11a 5MHz Ant. 4 / 5745 MHz



Date: 22.JUN.2010 14:26:06

High Band Edge Plot on Configuration IEEE 802.11a 5MHz Ant. 4 / 5825 MHz

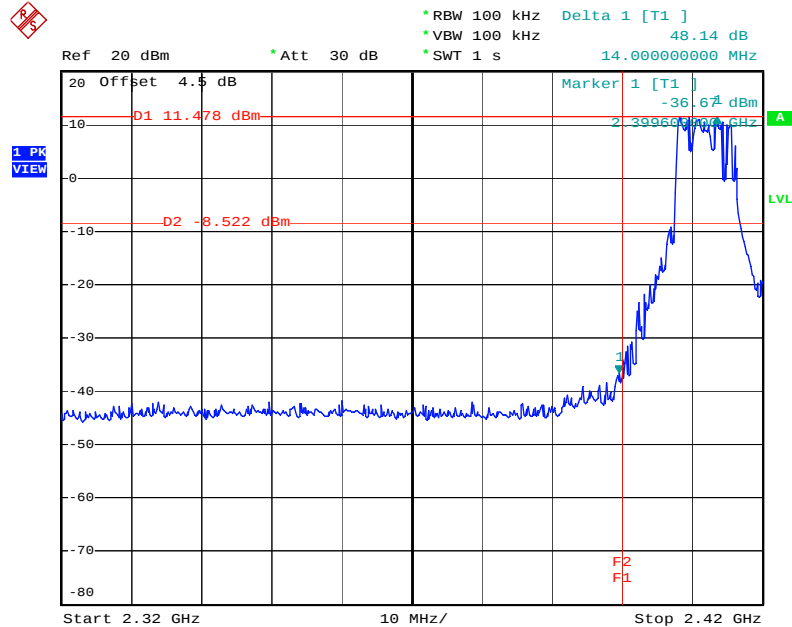


Date: 22.JUN.2010 14:42:36

For Emission not in Restricted Band

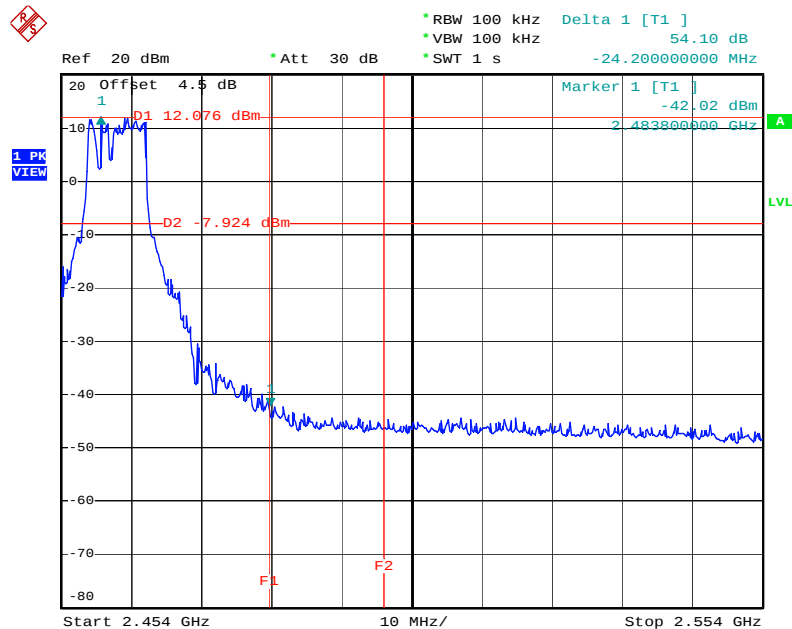
For Antenna 4 / Mode 8:

Low Band Edge Plot on Configuration IEEE 802.11g 10MHz Ant. 4 / 2412 MHz



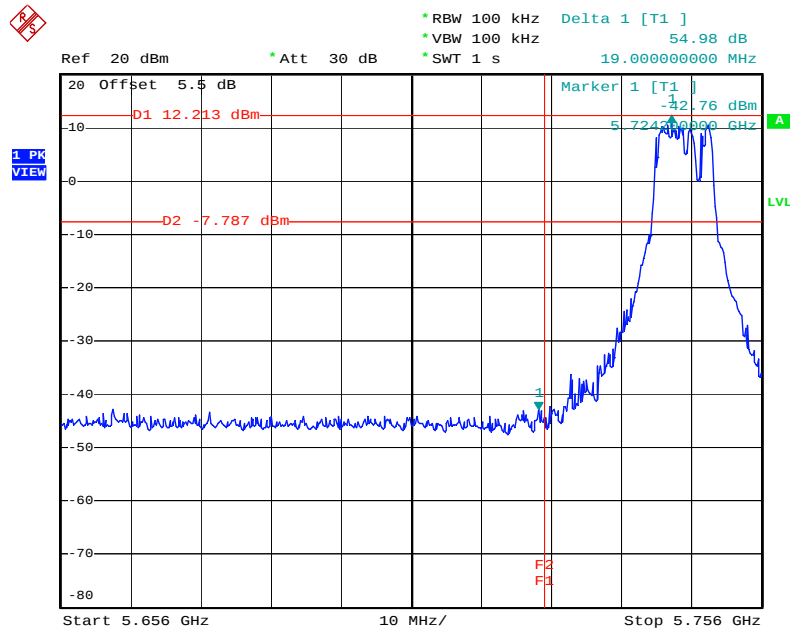
Date: 22.JUN.2010 16:11:27

High Band Edge Plot on Configuration IEEE 802.11g 10MH Ant. 4 / 2462 MHz



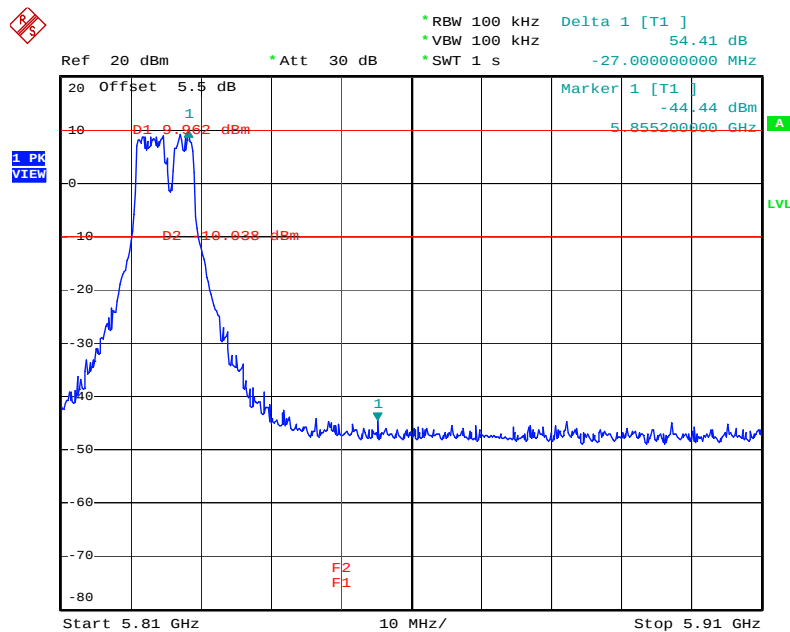
Date: 22.JUN.2010 16:18:21

Low Band Edge Plot on Configuration IEEE 802.11a 10MHz Ant. 4 / 5745 MHz



Date: 22.JUN.2010 16:21:49

High Band Edge Plot on Configuration IEEE 802.11a 10MHz Ant. 4 / 5825 MHz

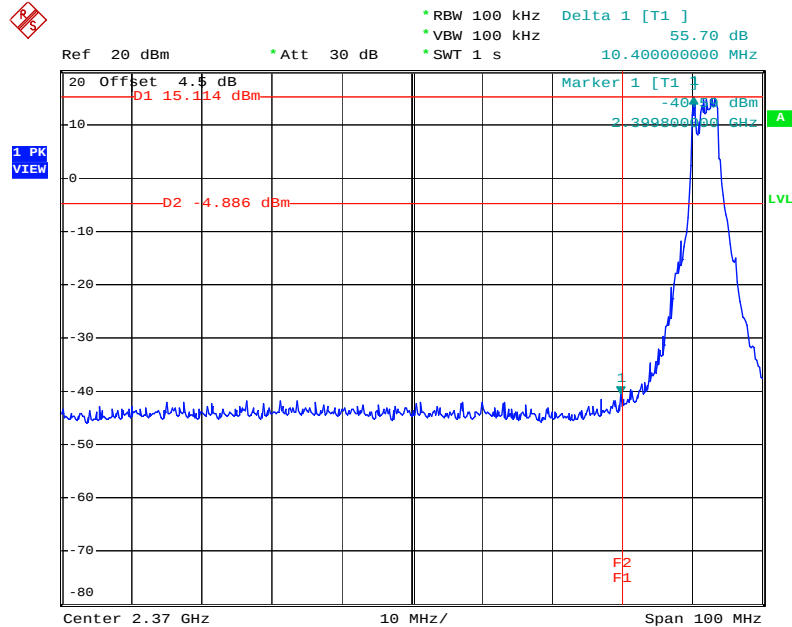


Date: 22.JUN.2010 16:26:00

For Emission not in Restricted Band

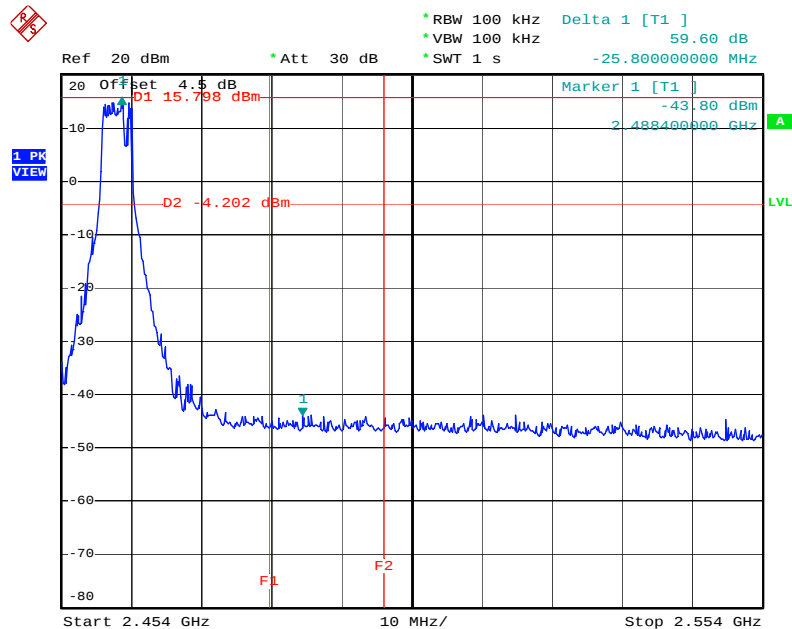
For Antenna 5 / Mode 9:

Low Band Edge Plot on Configuration IEEE 802.11g 5MHz Ant. 5 / 2412 MHz



Date: 22.JUN.2010 17:48:15

High Band Edge Plot on Configuration IEEE 802.11g 5MHz Ant. 5 / 2462 MHz

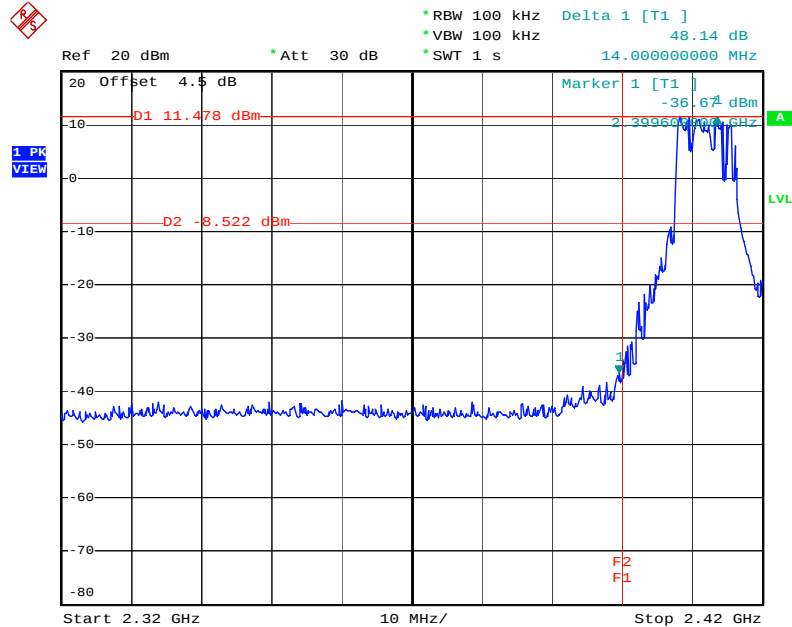


Date: 22.JUN.2010 18:12:19

For Emission not in Restricted Band

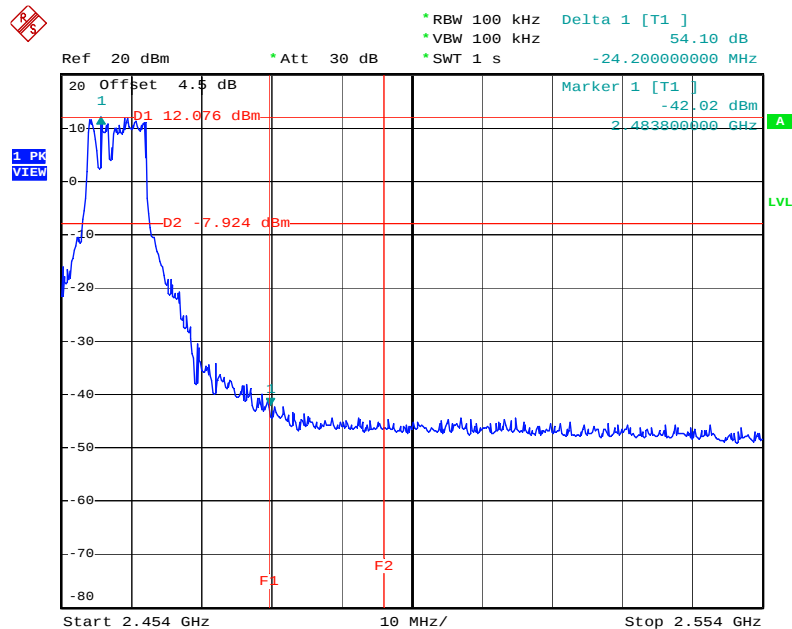
For Antenna 5 / Mode 10:

Low Band Edge Plot on Configuration IEEE 802.11g 10MHz Ant. 5 / 2412 MHz



Date: 22.JUN.2010 16:11:27

High Band Edge Plot on Configuration IEEE 802.11g 10MHz Ant. 5 / 2462 MHz

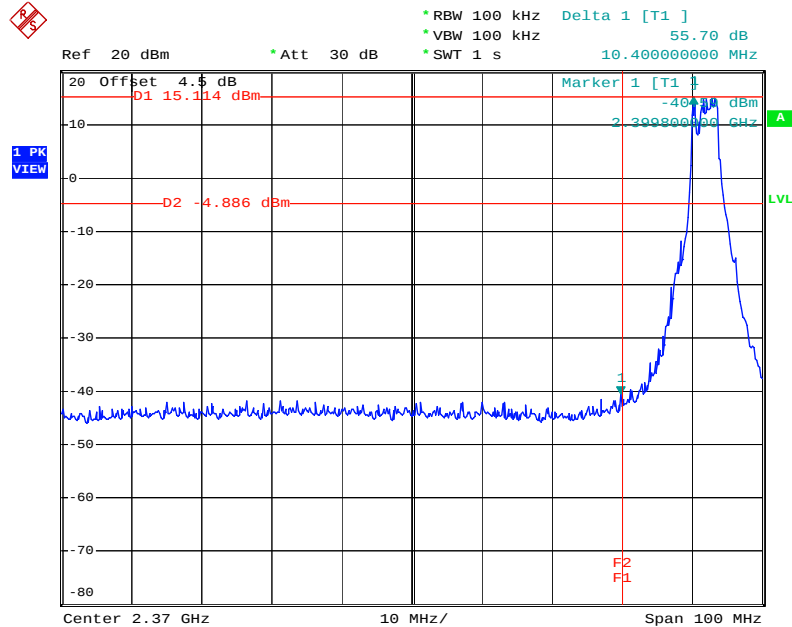


Date: 22.JUN.2010 16:18:21

For Emission not in Restricted Band

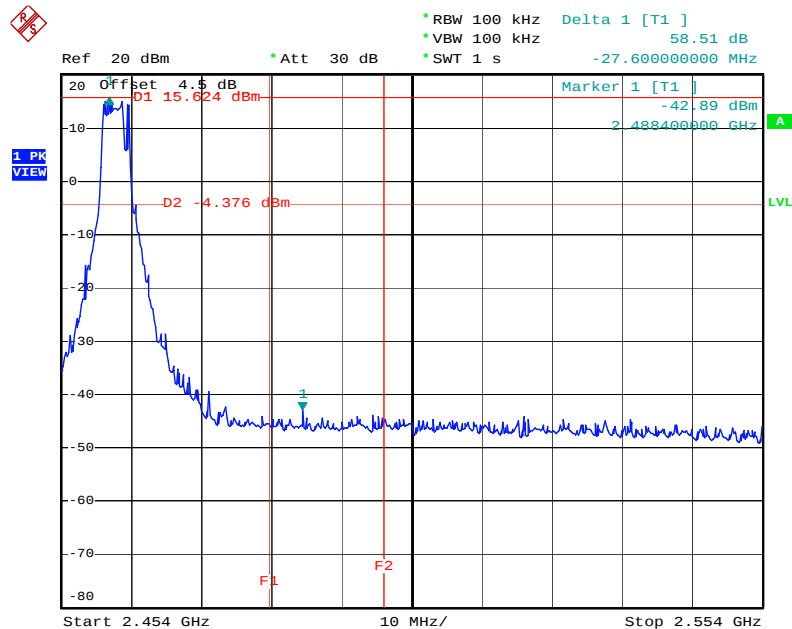
For Antenna 6 / Mode 11:

Low Band Edge Plot on Configuration IEEE 802.11g 5MHz Ant. 6 / 2412 MHz



Date: 22.JUN.2010 17:48:15

High Band Edge Plot on Configuration IEEE 802.11g 5MHz Ant. 6 / 2462 MHz

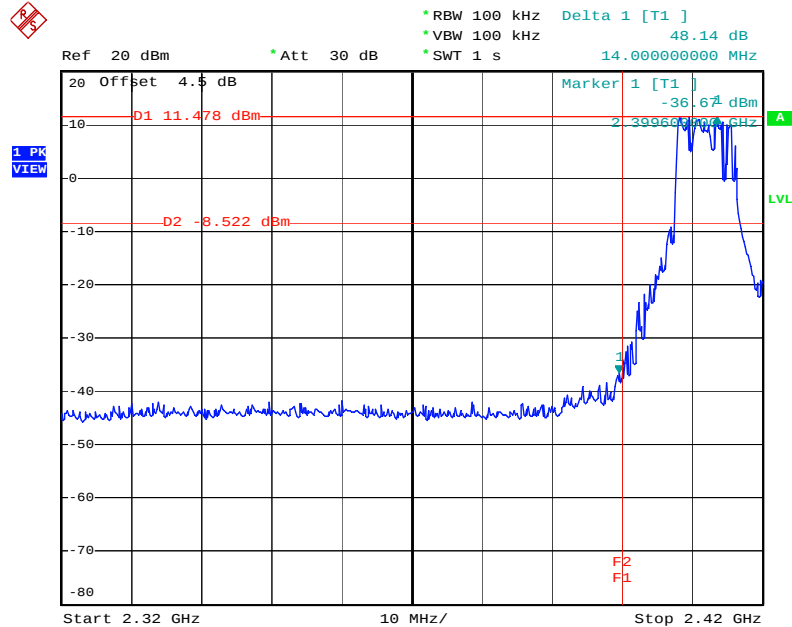


Date: 22.JUN.2010 17:05:46

For Emission not in Restricted Band

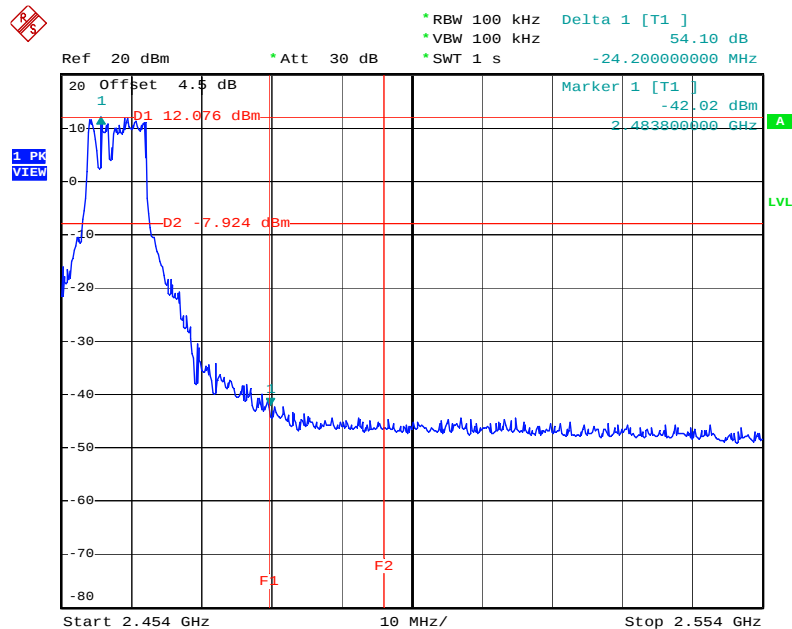
For Antenna 6 / Mode 12:

Low Band Edge Plot on Configuration IEEE 802.11g 10MHz Ant. 6 / 2412 MHz



Date: 22.JUN.2010 16:11:27

High Band Edge Plot on Configuration IEEE 802.11g 10MHz Ant. 6 / 2462 MHz

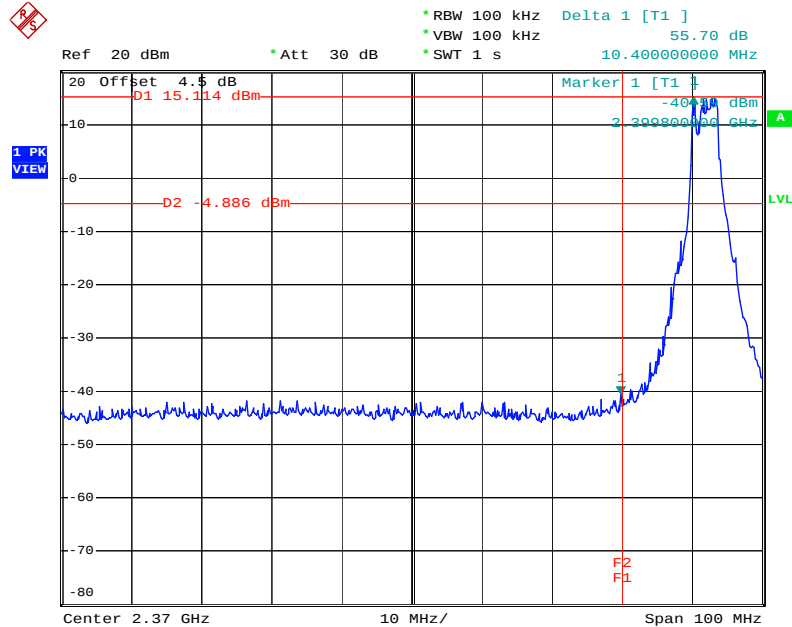


Date: 22.JUN.2010 16:18:21

For Emission not in Restricted Band

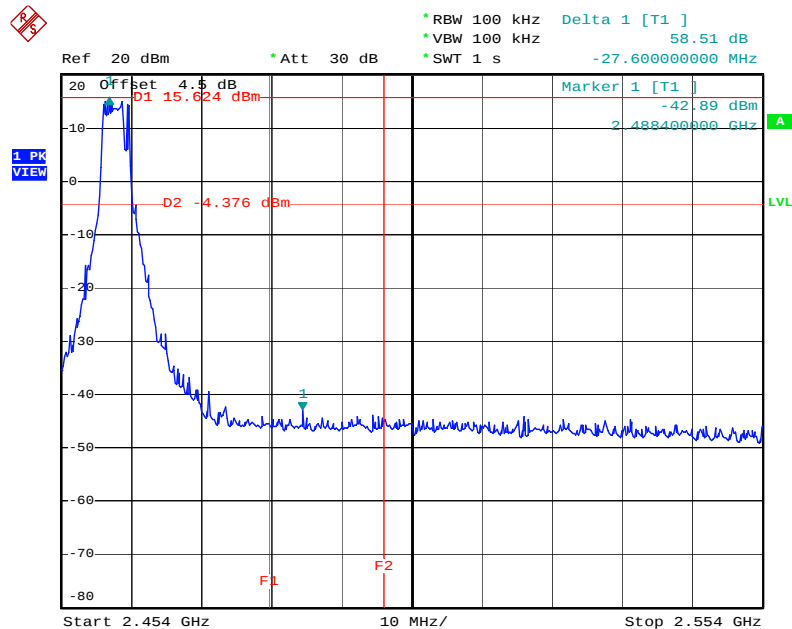
For Antenna 7 / Mode 13:

Low Band Edge Plot on Configuration IEEE 802.11g 5MHz Ant. 7 / 2412 MHz



Date: 22.JUN.2010 17:48:15

High Band Edge Plot on Configuration IEEE 802.11g 5MHz Ant. 7 / 2462 MHz

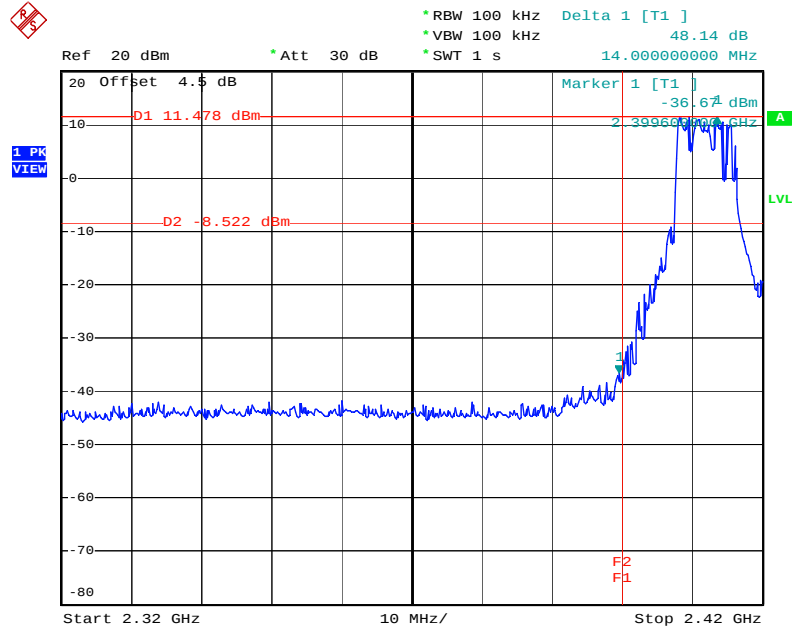


Date: 22.JUN.2010 17:05:46

For Emission not in Restricted Band

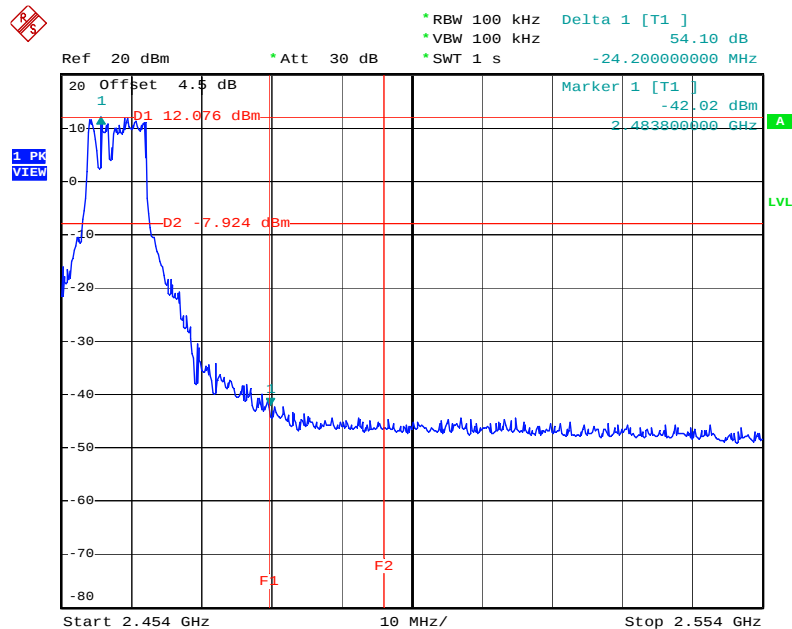
For Antenna 7 / Mode 14:

Low Band Edge Plot on Configuration IEEE 802.11g 10MHz Ant. 7 / 2412 MHz



Date: 22.JUN.2010 16:11:27

High Band Edge Plot on Configuration IEEE 802.11g 10MHz Ant. 7 / 2462 MHz



Date: 22.JUN.2010 16:18:21

4.6. Antenna Requirements

4.6.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.6.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30 MHz - 1 GHz 3m	Jun. 06, 2010	Radiation (03CH03-HY)
Amplifier	SCHAFFNER	COA9231A	18667	9 kHz - 2 GHz	Jan. 24, 2010	Radiation (03CH03-HY)
Amplifier	Agilent	8449B	3008A02120	1 GHz - 26.5 GHz	Jul. 21, 2009	Radiation (03CH03-HY)
Amplifier	MITEQ	AMF-6F-260400	9121372	26.5 GHz - 40 GHz	Apr. 06, 2009*	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSP40	100004	9 kHz - 40 GHz	Oct. 03, 2009	Radiation (03CH03-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	Jul. 28, 2008*	Radiation (03CH03-HY)
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30 MHz – 1 GHz	Sep. 26, 2009	Radiation (03CH03-HY)
Horn Antenna	EMCO	3115	6741	1GHz ~ 18GHz	Apr. 28, 2010	Radiation (03CH03-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15 GHz - 40 GHz	Jan. 11, 2010	Radiation (03CH03-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz - 1 GHz	Jan. 05, 2010	Radiation (03CH03-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	1 GHz - 40 GHz	Jan. 05, 2010	Radiation (03CH03-HY)
Turn Table	HD	DS 420	420/650/00	0 – 360 degree	N/A	Radiation (03CH03-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	Radiation (03CH03-HY)
Spectrum Analyzer	R&S	FSU26.5	100015	20Hz ~ 26.5GHz	Oct. 29, 2009	Conducted (TH01-HY)
Power Meter	R&S	NRVS	100444	DC ~ 40GHz	Jul. 31, 2009	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z51	100666	DC ~ 30GHz	Aug. 05, 2009	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jul. 31, 2009	Conducted (TH01-HY)
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	Jul. 12, 2009*	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Mar. 13, 2010	Conducted (TH01-HY)
Temp. and Humidity Chamber	Giant Force	GTH-225-20-S	MAB0103-001	N/A	Aug. 06, 2009	Conducted (TH01-HY)
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Dec. 02, 2009	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 02, 2009	Conducted (TH01-HY)
Vector Signal Generator	R&S	SMU200A	102098	100kHz ~ 6GHz	Feb. 13, 2010	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	Mar. 25, 2010	Conducted (TH01-HY)
Power Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	Dec. 03, 2009	Conducted (TH01-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	Dec. 03, 2009	Conducted (TH01-HY)

Note: Calibration Interval of instruments listed above is one year.

Note: For “*” Calibration Interval of instruments listed above is two years.

6. TEST LOCATION

SHIJR	ADD : 6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C. TEL : 886-2-2696-2468 FAX : 886-2-2696-2255
HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-318-0055
LINKOU	ADD : No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C TEL : 886-2-2601-1640 FAX : 886-2-2601-1695
DUNGHU	ADD : No. 3, Lane 238, Kangle St., Neihsu Chiu, Taipei, Taiwan 114, R.O.C. TEL : 886-2-2631-4739 FAX : 886-2-2631-9740
JUNGHE	ADD : 7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C. TEL : 886-2-8227-2020 FAX : 886-2-8227-2626
NEIHU	ADD : 4Fl., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C. TEL : 886-2-2794-8886 FAX : 886-2-2794-9777
JHUBEI	ADD : No.8, Lane 728, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

7. TAF CERTIFICATE OF ACCREDITATION



Certificate No. : L1190-091230

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

Certificate of Accreditation

This is to certify that

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

is accredited in respect of laboratory

Accreditation Criteria	: ISO/IEC 17025:2005
Accreditation Number	: 1190
Originally Accredited	: December 15, 2003
Effective Period	: January 10, 2010 to January 09, 2013
Accredited Scope	: Testing Field, see described in the Appendix
Specific Accreditation Program	: Accreditation Program for Designated Testing Laboratory for Commodities Inspection Accreditation Program for Telecommunication Equipment Testing Laboratory Accreditation Program for BSMI Mutual Recognition Arrangement with Foreign Authorities



Jay-San Chen
President, Taiwan Accreditation Foundation
Date : December 30, 2009

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