

FCC RADIO TEST REPORT

Applicant's company	Trapeze Networks
Applicant Address	5753 W. Las Positas Blvd. Pleasanton, CA 94588
FCC ID	QZE520
Manufacturer's company	Accton Technology Corporation
Manufacturer Address	No. 1 Creation Rd., III, Science-based Industrial Park, Hsinchu 300, Taiwan, R.O.C.

Product Name	Enterprise Access Point
Brand Name	Trapeze Networks
Model Name	520 / MP-522 / MP-522E
Test Rule Part(s)	47 CFR FCC Part 15 Subpart C § 15.247
Test Freq. Range	2400 ~ 2483.5MHz / 5725 ~ 5850MHz
Received Date	Mar. 30, 2010
Final Test Date	Jul. 14, 2010
Submission Type	Original Equipment
Multiple Listing	Please refer to section 3.7



Statement

Test result included is only for the IEEE 802.11n, IEEE 802.11b/g part and IEEE 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. 15, 2010

Report No.: FR040302AB

■ No additional attachment.

□ Additional attachment were issued as following record:

Attachment No.	Issue Date	Description

1. CERTIFICATE OF COMPLIANCE

Product Name : Enterprise Access Point
Brand Name : Trapeze Networks
Model Name : 520 / MP-522 / MP-522E
Applicant : Trapeze Networks
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 Mar. 30, 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.

Leo Huang 2010-7-13
Leo Huang / Manager
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
4.1	15.207	AC Power Line Conducted Emissions	Complies	5.12 dB
4.2	15.247(b)(3)	Maximum Conducted Output Power	Complies	0.02 dB
4.3	15.247(e)	Power Spectral Density	Complies	4.12 dB
4.4	15.247(a)(2)	6dB Spectrum Bandwidth	Complies	-
4.5	15.247(d)	Radiated Emissions below 1GHz	Complies	Mode 1: 2.02 dB
				Mode 5: 3.29 dB
4.5	15.247(d)	Radiated Emissions above 1GHz	Complies	0.80 dB
4.6	15.247(d)	Band Edge Emissions	Complies	0.01 dB
4.7	15.203	Antenna Requirements	Complies	-

Note: Due to the EUT is powered from POE, and the POE will not sell with EUT.

So it's not necessary to apply for Conducted Emission test.

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

IEEE 802.11n

Items	Description
Product Type	WLAN (2TX, 2RX)
Radio Type	Intentional Transceiver
Power Type	From POE
Modulation	see the below table for IEEE 802.11n
Data Modulation	OFDM (BPSK / QPSK / 16QAM / 64QAM)
Data Rate (Mbps)	see the below table for IEEE 802.11n
Frequency Range	2400 ~ 2483.5MHz / 5725 ~ 5850MHz
Channel Number	For 2.4GHz Band: 11 for 20MHz bandwidth ; 9 for 40MHz bandwidth For 5GHz Band: 5 for 20MHz bandwidth ; 2 for 40MHz bandwidth
Channel Band Width (99%)	For 2.4GHz Band: For Ant. 1: MCS8 (20MHz): 17.68 MHz ; MCS8 (40MHz): 36.24 MHz For Ant. 2: MCS8 (20MHz): 17.68 MHz ; MCS8 (40MHz): 36.32 MHz For Ant. 3: MCS8 (20MHz): 17.68 MHz ; MCS8 (40MHz): 36.24 MHz For Ant. 4: MCS8 (20MHz): 17.68 MHz ; MCS8 (40MHz): 36.16 MHz For Ant. 6: MCS8 (20MHz): 17.68 MHz ; MCS8 (40MHz): 36.32 MHz For 5GHz Band: For Ant. 1: MCS8 (20MHz): 17.72 MHz ; MCS8 (40MHz): 36.32 MHz For Ant. 2: MCS8 (20MHz): 17.72 MHz ; MCS8 (40MHz): 36.32 MHz For Ant. 3: MCS8 (20MHz): 17.72 MHz ; MCS8 (40MHz): 36.32 MHz For Ant. 4: MCS8 (20MHz): 17.72 MHz ; MCS8 (40MHz): 36.32 MHz For Ant. 5: MCS8 (20MHz): 17.64 MHz ; MCS8 (40MHz): 36.24 MHz

	For Ant. 6: MCS8 (20MHz): 17.72 MHz ; MCS8 (40MHz): 36.32 MHz
Conducted Output Power	For 2.4GHz Band: For Ant. 1: MCS8 (20MHz): 22.10 dBm ; MCS8 (40MHz): 21.49 dBm For Ant. 2: MCS8 (20MHz): 24.01 dBm ; MCS8 (40MHz): 20.91 dBm For Ant. 3: MCS8 (20MHz): 24.17 dBm ; MCS8 (40MHz): 17.86 dBm For Ant. 4: MCS8 (20MHz): 24.17 dBm ; MCS8 (40MHz): 17.90 dBm For Ant. 6: MCS8 (20MHz): 25.04 dBm ; MCS8 (40MHz): 19.62 dBm For 5GHz Band: For Ant. 1: MCS8 (20MHz): 24.08 dBm ; MCS8 (40MHz): 23.41 dBm For Ant. 2: MCS8 (20MHz): 22.19 dBm ; MCS8 (40MHz): 21.98 dBm For Ant. 3: MCS8 (20MHz): 21.19 dBm ; MCS8 (40MHz): 21.98 dBm For Ant. 4: MCS8 (20MHz): 22.19 dBm ; MCS8 (40MHz): 21.98 dBm For Ant. 5: MCS8 (20MHz): 16.47 dBm ; MCS8 (40MHz): 16.33 dBm For Ant. 6: MCS8 (20MHz): 22.19 dBm ; MCS8 (40MHz): 21.98 dBm

802.11a/b/g

Items	Description
Product Type	WLAN (2TX, 2RX)
Radio Type	Intentional Transceiver
Power Type	From POE
Modulation	DSSS for IEEE 802.11b ; OFDM for IEEE 802.11a/g
Data Modulation	DSSS (BPSK / QPSK / CCK) ; OFDM (BPSK / QPSK / 16QAM / 64QAM)
Data Rate (Mbps)	DSSS (1/ 2/ 5.5/11) ; OFDM (6/9/12/18/24/36/48/54)
Frequency Range	2400 ~ 2483.5MHz / 5725 ~ 5850MHz
Channel Number	11b/g: 11 ; 11a: 5
Channel Band Width (99%)	For Ant. 1: 11b: 15.84 MHz ; 11g: 16.48 MHz ; 11a: 16.60 MHz For Ant. 2: 11b: 16.00 MHz ; 11g: 16.52 MHz ; 11a: 16.68 MHz For Ant. 3: 11b: 15.72 MHz ; 11g: 16.48 MHz ; 11a: 16.68 MHz For Ant. 4: 11b: 15.64 MHz ; 11g: 16.48 MHz ; 11a: 16.68 MHz For Ant. 5: 11a: 16.52 MHz For Ant. 6: 11b: 15.68 MHz ; 11g: 16.52 MHz ; 11a: 16.60 MHz
Conducted Output Power	For Ant. 1: 11b: 25.05 dBm ; 11g: 23.92 dBm ; 11a: 23.49 dBm For Ant. 2: 11b: 23.82 dBm ; 11g: 23.92 dBm ; 11a: 23.73 dBm For Ant. 3: 11b: 22.99 dBm ; 11g: 22.14 dBm ; 11a: 22.19 dBm For Ant. 4: 11b: 22.99 dBm ; 11g: 22.14 dBm ; 11a: 22.19 dBm For Ant. 5: 11a: 16.33 dBm For Ant. 6: 11b: 22.99 dBm ; 11g: 24.85 dBm ; 11a: 22.19 dBm

Antenna & Band width

Antenna	Single (TX)		Two (TX)	
Band width Mode	20 MHz	40 MHz	20 MHz	40 MHz
IEEE 802.11a	X	X	V	X
IEEE 802.11b	X	X	V	X
IEEE 802.11g	X	X	V	X
IEEE 802.11n	X	X	V	V

IEEE 802.11n spec

MCS Index	Nss	Modulation	R	NBPSC	NCBPS		NDBPS		Datarate(Mbps)			
									800nsGI		400nsGI	
					20MHz	40MHz	20MHz	40MHz	20MHz	40MHz	20MHz	40MHz
0	1	BPSK	1/2	1	52	108	26	54	6.5	13.5	7.200	15
1	1	QPSK	1/2	2	104	216	52	108	13.0	27.0	14.400	30
2	1	QPSK	3/4	2	104	216	78	162	19.5	40.5	21.700	45
3	1	16-QAM	1/2	4	208	432	104	216	26.0	54.0	28.900	60
4	1	16-QAM	3/4	4	208	432	156	324	39.0	81.0	43.300	90
5	1	64-QAM	2/3	6	312	648	208	432	52.0	108.0	57.800	120
6	1	64-QAM	3/4	6	312	648	234	486	58.5	121.5	65.000	135
7	1	64-QAM	5/6	6	312	648	260	540	65.0	135.0	72.200	150
8	2	BPSK	1/2	1	104	216	52	108	13.0	27.0	14.444	30
9	2	QPSK	1/2	2	208	432	104	216	26.0	54.0	28.889	60
10	2	QPSK	3/4	2	208	432	156	324	39.0	81.0	43.333	90
11	2	16-QAM	1/2	4	416	864	208	432	52.0	108.0	57.778	120
12	2	16-QAM	3/4	4	416	864	312	648	78.0	162.0	86.667	180
13	2	64-QAM	2/3	6	624	1296	416	864	104.0	216.0	115.556	240
14	2	64-QAM	3/4	6	624	1296	468	972	117.0	243.0	130.000	270
15	2	64-QAM	5/6	6	624	1296	520	1080	130.0	270.0	144.444	300

Symbol	Explanation
NSS	Number of spatial streams
R	Code rate
NBPSC	Number of coded bits per single carrier
NCBPS	Number of coded bits per symbol
NDBPS	Number of data bits per symbol
GI	guard interval

3.2. Accessories

N/A

3.3. Table for Filed Antenna

Ant.	Brand	Model Name	Model Name of User's guide	Antenna Type	Connector	Gain (dBi)	
1	Speed Co. Ltd.	F-0G-EY-0001-000-WC	N/A	Loop Antenna	I-PEX	2.4GHz	3.6
						5GHz	6.0
2	Long Cheng Tech. Int'l Co., Ltd.	FDE_ACBSMA-BGP	ANT-7360P-IN	Dipole Antenna	RP-SMA Plug	2.4GHz	3.0
						5GHz	5.0
3	Laird Technologies	S24517PT	ANT-77555-OUT	Dual-Band MIMO Sector Antenna	Reverse SMA (3x)	2.4GHz	8.0
						5GHz	10.7
4	Laird Technologies	S245112PT	ANT-74520-OUT	Dual-Band MIMO Directional Antenna	Reverse SMA (3x)	2.4GHz	10.9
						5GHz	13.5
5	MARS ANTENNAS & RF SYSTEMS LTD.	MA-WA56-DP25N	ANT-5007-OUT	Dual Polarized Antenna	2 x N-Type, Female	5GHz	23.5
6	PCTEL Broadband Technology Group	MMO24580608	ANT-7360A-OUT	Mast Mount Omnidirectional antennas	N-type Jack	2.4GHz	6.0
						5GHz	8.0

Note: The EUT will collect with one internal antenna (Ant. 1) and five external antennas (Ant. 2 ~ Ant. 6).

Ant. 1 / Ant. 2 / Ant. 3 / Ant. 4 / Ant. 6 is used in 2.4GHz / 5GHz Band.

Ant. 5 is only used in Band 2, Band 3 and Band 4 of 5GHz Band.

For 5GHz Band:

Connector A1 and Connector A5 can both receive/transmit simultaneously.

For 2.4GHz Band:

Connector B2 and Connector B6 can both receive/transmit simultaneously.



Antenna	Antenna Gain		Cable loss		Test Antenna Gain	
	2.4GHz	5GHz	2.4GHz	5GHz	2.4GHz	5GHz
1	3.6	6.0	-	-	3.6	6.0
2	3.0	5.0	0.92	1.74	2.08	3.26
3	8.0	10.7	0.92	1.74	7.08	8.96
4	10.9	13.5	0.92	1.74	9.98	11.76
5	-	23.5	1.53	3.99	-	19.51
6	6.0	8.0	1.53	3.99	4.47	4.01

3.4. Table for Carrier Frequencies

For 2.4GHz Band

Frequency Allocation for IEEE 802.11b/g

For IEEE 802.11b/g, use Channel 1~Channel 11.

There are two bandwidth systems for IEEE 802.11n.

For both 20MHz bandwidth systems, use Channel 1~Channel 11.

For both 40MHz bandwidth systems, use Channel 3~Channel 9.

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 IEEE 802.11a

For IEEE 802.11a, use Channel 149, 153, 157, 161, 165.

There are two bandwidth systems for IEEE 802.11n.

For 20MHz bandwidth systems, use Channel 149, 153, 157, 161, 165.

For 40MHz bandwidth systems, use Channel 151, 159.

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5725~5850 MHz	149	5745 MHz	159	5795 MHz
	151	5755 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 Ant. 1 / Ant. 2 / Ant. 3 / Ant. 4 / Ant. 6 >

For 2.4GHz Band

Test Items	Mode	Data Rate	Channel	Connector
AC Power Line Conducted Emissions	Normal Link	Auto	-	-
Max. Peak Conducted Output Power	MCS8/20MHz	13 Mbps	1/6/11	B2/B6/B2+B6
	MCS8/40MHz	27 Mbps	3/6/9	B2/B6/B2+B6
	11b/CCK	1 Mbps	1/6/11	B2/B6/B2+B6
	11g/BPSK	6 Mbps	1/6/11	B2/B6/B2+B6
Power Spectral Density 6dB Spectrum Bandwidth	MCS8/20MHz	13 Mbps	1/6/11	B2+B6
	MCS8/40MHz	27 Mbps	3/6/9	B2+B6
	11b/CCK	1 Mbps	1/6/11	B2+B6
	11g/BPSK	6 Mbps	1/6/11	B2+B6
Radiated Emissions Below 1GHz	Normal Link	Auto	-	-
Radiated Emissions Above 1GHz	MCS8/20MHz	13 Mbps	1/6/11	B2+B6
	MCS8/40MHz	27 Mbps	3/6/9	B2+B6
	11b/CCK	1 Mbps	1/6/11	B2+B6
	11g/BPSK	6 Mbps	1/6/11	B2+B6
Band Edge Emissions	MCS8/20MHz	13 Mbps	1/11	B2+B6
	MCS8/40MHz	27 Mbps	3/9	B2+B6
	11b/CCK	1 Mbps	1/11	B2+B6
	11g/BPSK	6 Mbps	1/11	B2+B6

For 5GHz Band

Test Items	Mode	Data Rate	Channel	Antenna
AC Power Line Conducted Emissions	Normal Link	Auto	-	-
Max. Peak Conducted Output Power	MCS8/20MHz	13 Mbps	149/157/165	A1/A5/A1+A5
	MCS8/40MHz	27 Mbps	151/159	A1/A5/A1+A5
	11a/BPSK	6 Mbps	149/157/165	A1/A5/A1+A5
Power Spectral Density 6dB Spectrum Bandwidth	MCS8/20MHz	13 Mbps	149/157/165	A1+A5
	MCS8/40MHz	27 Mbps	151/159	A1+A5
	11a/BPSK	6 Mbps	149/157/165	A1+A5
Radiated Emissions Below 1GHz	Normal Link	Auto	-	-
Radiated Emissions Above 1GHz	MCS8/20MHz	13 Mbps	149/157/165	A1+A5
	MCS8/40MHz	27 Mbps	151/159	A1+A5
	11a/BPSK	6 Mbps	149/157/165	A1+A5
Band Edge Emissions	MCS8/20MHz	13 Mbps	149/157/165	A1+A5
	MCS8/40MHz	27 Mbps	151/159	A1+A5
	11a/BPSK	6 Mbps	149/157/165	A1+A5

< For Ant. 5 >

For 5GHz Band

Test Items	Mode	Data Rate	Channel	Antenna
AC Power Line Conducted Emissions	Normal Link	Auto	-	-
Max. Peak Conducted Output Power	MCS8/20MHz	13 Mbps	149/157/165	A1/A5/A1+A5
	MCS8/40MHz	27 Mbps	151/159	A1/A5/A1+A5
	11a/BPSK	6 Mbps	149/157/165	A1/A5/A1+A5
Power Spectral Density 6dB Spectrum Bandwidth	MCS8/20MHz	13 Mbps	149/157/165	A1+A5
	MCS8/40MHz	27 Mbps	151/159	A1+A5
	11a/BPSK	6 Mbps	149/157/165	A1+A5
Radiated Emissions Below 1GHz	Normal Link	Auto	-	-
Radiated Emissions Above 1GHz	MCS8/20MHz	13 Mbps	149/157/165	A1+A5
	MCS8/40MHz	27 Mbps	151/159	A1+A5
	11a/BPSK	6 Mbps	149/157/165	A1+A5
Band Edge Emissions	MCS8/20MHz	13 Mbps	149/157/165	A1+A5
	MCS8/40MHz	27 Mbps	151/159	A1+A5
	11a/BPSK	6 Mbps	149/157/165	A1+A5

Note: Ant. 5 is only used in Band 2, Band 3 and Band 4 of 5GHz Band.

The following test modes were performed for all tests:

Mode 1. EUT + Ant. 1 (Internal Antenna)

Mode 2. EUT + Ant. 2 (External Antenna)

Mode 3. EUT + Ant. 3 (External Antenna)

Mode 4. EUT + Ant. 4 (External Antenna)

Mode 5. EUT + Ant. 5 (External Antenna)

Mode 6. EUT + Ant. 6 (External Antenna)

For Conducted Emission test:

After evaluating, Mode 5 was selected as worse case and recorded the test data in the report.

For Radiated Emission test below 1GHz:

After evaluating, Mode 1 and Mode 5 were selected as worse case and recorded the test data in the report.

For Radiated Emission test above 1GHz:

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

For MPE and Co-location Test:

After evaluating, Mode 1 and Mode 2 were selected as worse case and recorded the test data in the report.

The EUT could be applied with wireless LAN function 2.4GHz Band and wireless LAN function 5GHz Band; therefore Maximum Permissible Exposure (please refer to Appendix C) and Co-location (please refer to Appendix D) tests are added for simultaneously transmit between Bluetooth and wireless LAN function.

3.6. Table for Testing Locations

Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.	VCCI Reg. No
CO04-HY	Conduction	Hwa Ya	879474	IC 4086	-
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 Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
520	Family model name
MP-522	EUT with internal antenna
MP-522E	EUT with external antenna

3.8. Table for Supporting Units

Support Unit	Brand	Model	FCC ID
PoE	PowerDsine	9001G	N/A
Wireless LAN Switch	3COM	MXR100	N/A
Switch	BELKIN	F5D5131-24	N/A
Notebook	DELL	M1330	E2KWM3945ABG
Notebook	DELL	D400	E2K24GBRL
Notebook	DELL	1200	E2K4965AGNM
Notebook	DELL	D505	E2K24GBRL
SWITCH	CNet	CSH-1600E	DoC

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 Ant. 1 >

For 2.4GHz Band

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
MCS8 20MHz	14	18.5	12

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	ART		
Frequency	2422 MHz	2437 MHz	2452 MHz
MCS8 40MHz	13.5	16	12

Power Parameters of IEEE 802.11b/g

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	17	21.5	15.5
IEEE 802.11g	16	19	12

For 5GHz Band

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS8 20MHz	21	21	21

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	ART	
Frequency	5755 MHz	5795 MHz
MCS8 40MHz	21	21

Power Parameters of IEEE 802.11a

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	21	21	21

< For Ant. 2 >

For 2.4GHz Band

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
MCS8 20MHz	15	20	13.5

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	ART		
Frequency	2422 MHz	2437 MHz	2452 MHz
MCS8 40MHz	14.5	17	13

Power Parameters of IEEE 802.11b/g

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	18.5	22	16.5
IEEE 802.11g	17	20.5	13.5

For 5GHz Band

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS8 20MHz	20	20	20

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	ART	
Frequency	5755 MHz	5795 MHz
MCS8 40MHz	20	20

Power Parameters of IEEE 802.11a

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	20	20	20

< For Ant. 3 >

For 2.4GHz Band

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
MCS8 20MHz	12	19.5	11

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	ART		
Frequency	2422 MHz	2437 MHz	2452 MHz
MCS8 40MHz	9.5	13.5	9

Power Parameters of IEEE 802.11b/g

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	17.5	20.5	16.5
IEEE 802.11g	13	18.5	11.5

For 5GHz Band

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS8 20MHz	20	20	20

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	ART	
Frequency	5755 MHz	5795 MHz
MCS8 40MHz	20	20

Power Parameters of IEEE 802.11a

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	20	20	20

< For Ant. 4 >

For 2.4GHz Band

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
MCS8 20MHz	12	19.5	11

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	ART		
Frequency	2422 MHz	2437 MHz	2452 MHz
MCS8 40MHz	8.5	12.5	6.5

Power Parameters of IEEE 802.11b/g

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	17.5	20.5	17
IEEE 802.11g	12.5	18.5	11.5

For 5GHz Band

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS8 20MHz	20	20	20

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	ART	
Frequency	5755 MHz	5795 MHz
MCS8 40MHz	20	20

Power Parameters of IEEE 802.11a

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	20	20	20

< For Ant. 5 >

For 5GHz Band

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS8 20MHz	10.5	10.5	10.5

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	ART	
Frequency	5755 MHz	5795 MHz
MCS8 40MHz	10.5	10.5

Power Parameters of IEEE 802.11a

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	11	11	10.5

< For Ant. 6 >

For 2.4GHz Band

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
MCS8 20MHz	14.5	19.5	12

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	ART		
Frequency	2422 MHz	2437 MHz	2452 MHz
MCS8 40MHz	11	14.5	9

Power Parameters of IEEE 802.11b/g

Test Software Version	ART		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	18	20.5	17
IEEE 802.11g	15	20.5	17

For 5GHz Band

Power Parameters of IEEE 802.11n MCS8 20MHz

Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825 MHz
MCS8 20MHz	20	20	20

Power Parameters of IEEE 802.11n MCS8 40MHz

Test Software Version	ART		
Frequency	5755 MHz	5795 MHz	
MCS8 40MHz	20	20	

Power Parameters of IEEE 802.11a

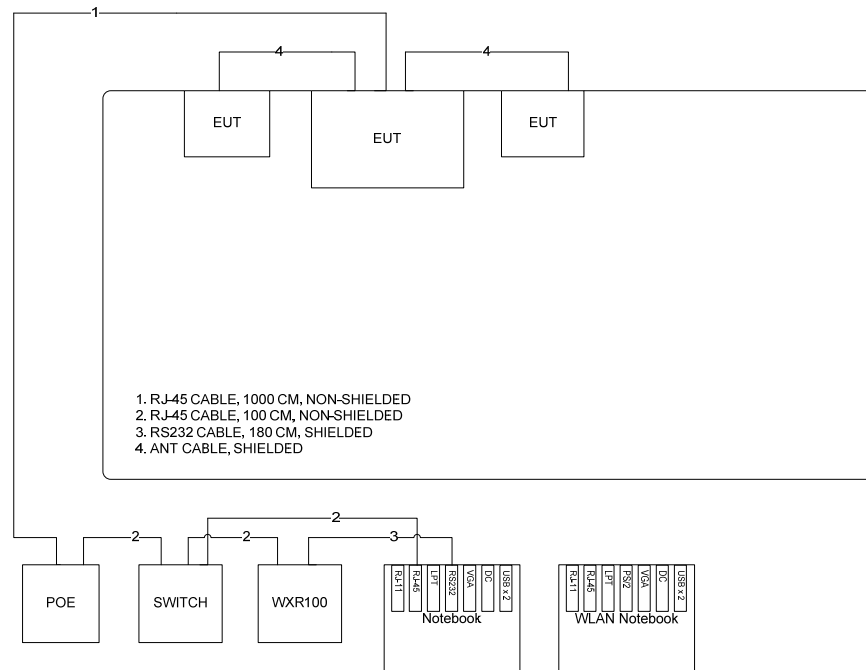
Test Software Version	ART		
Frequency	5745 MHz	5785 MHz	5825 MHz
IEEE 802.11a	20	20	20

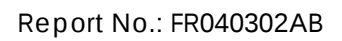
During the test, "ART" under WIN XP was executed to control the EUT continuously transmit RF signal.

3.10. Test Configurations

3.10.1. AC Power Line Conducted Emissions Test Configuration

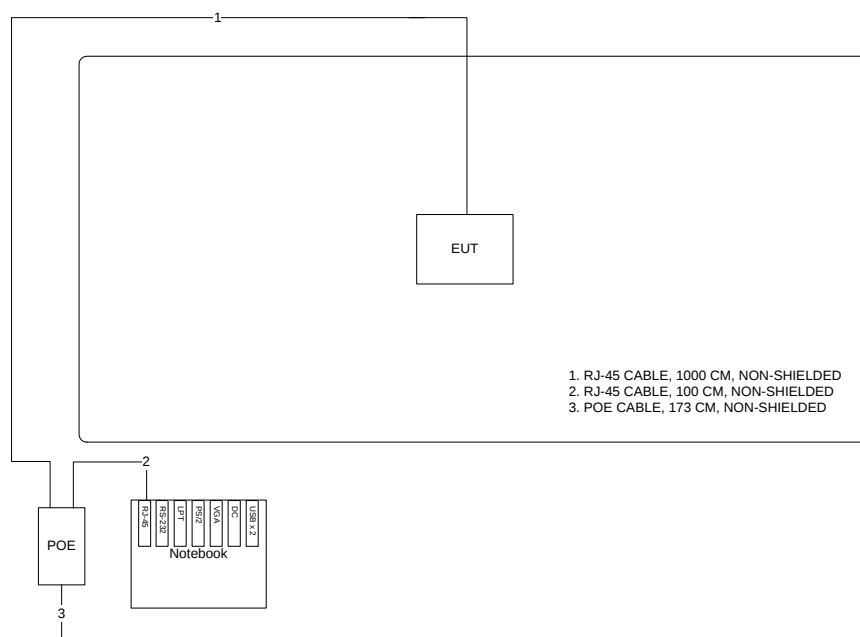
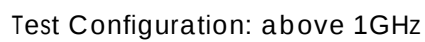
< For Ant. 5 >



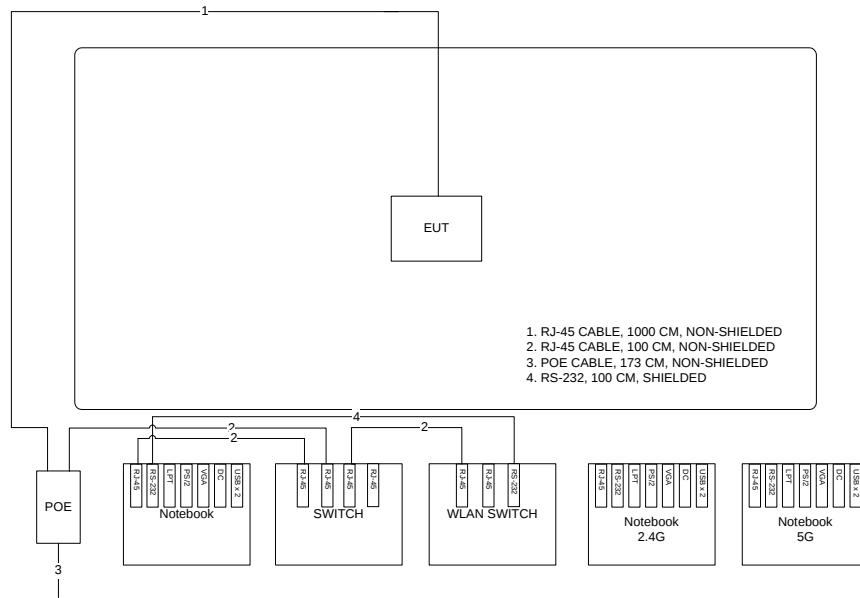


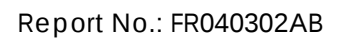
< For Ant. 1 >

Test Configuration: 9KHz~1GHz

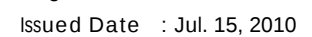


<For Co-location Function>





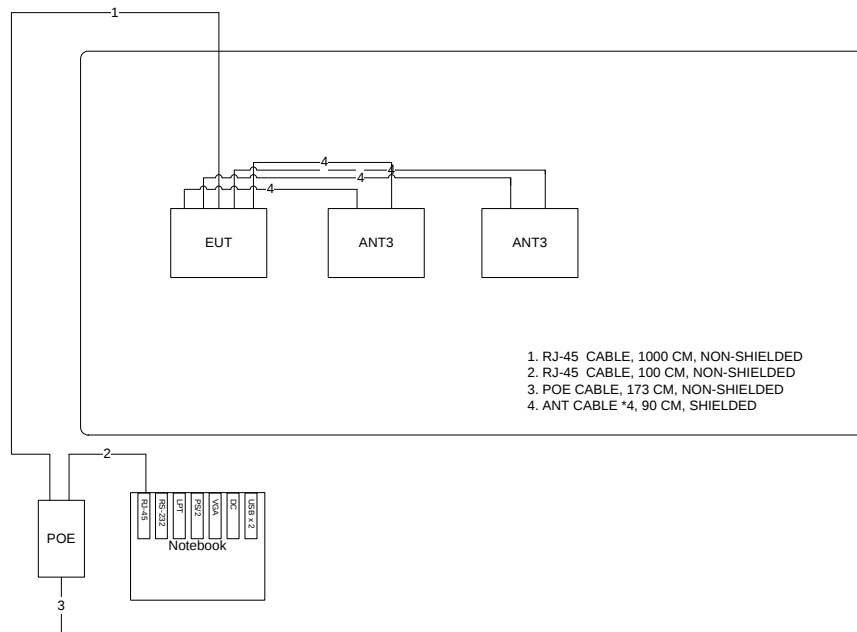
< For WLAN Function >



< For Ant. 3 >

< For WLAN Function >

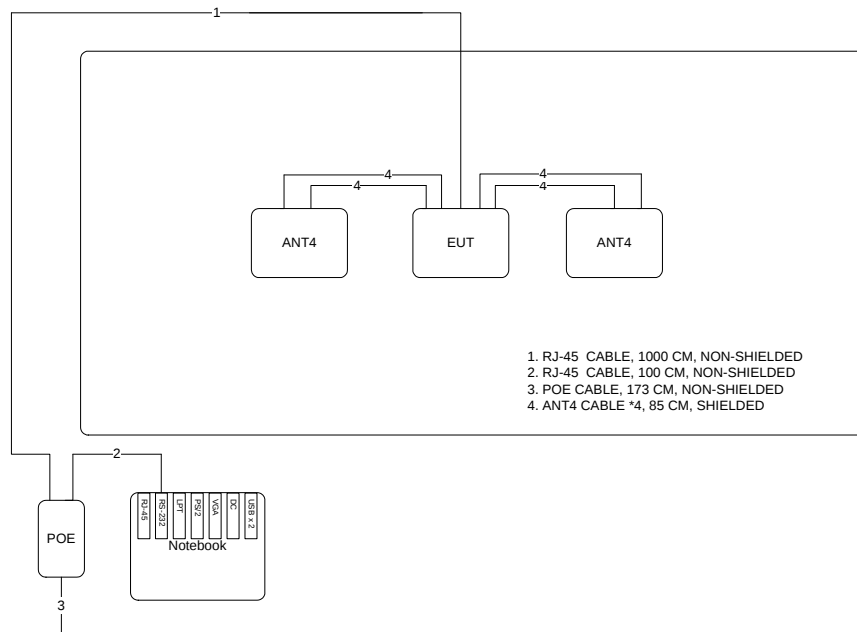
Test Configuration: above 1GHz



< For Ant. 4 >

< For WLAN Function >

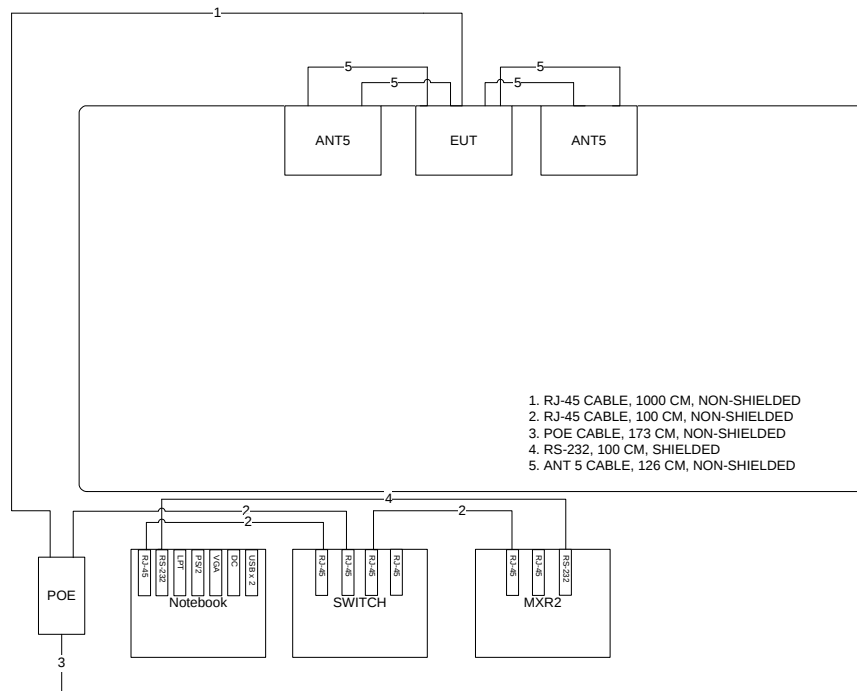
Test Configuration: above 1GHz



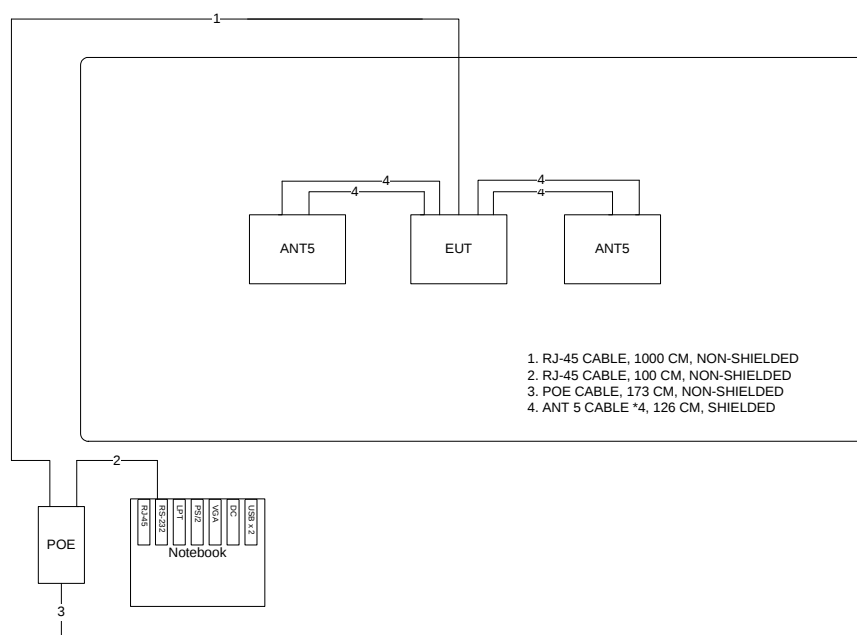
< For Ant. 5 >

< For WLAN Function >

Test Configuration: 9KHz~1GHz



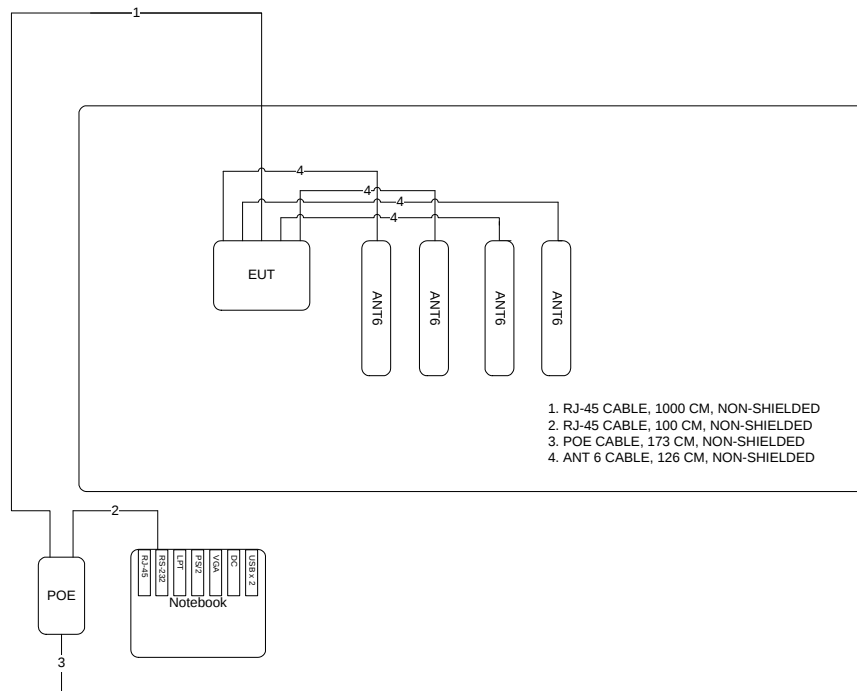
Test Configuration: above 1GHz



< For Ant. 6 >

< For WLAN Function >

Test Configuration: above 1GHz



4. TEST RESULT

4.1. AC Power Line Conducted Emissions Measurement

4.1.1. Limit

For this product which is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency (MHz)	QP Limit (dBuV)	AV Limit (dBuV)
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

4.1.2. Measuring Instruments and Setting

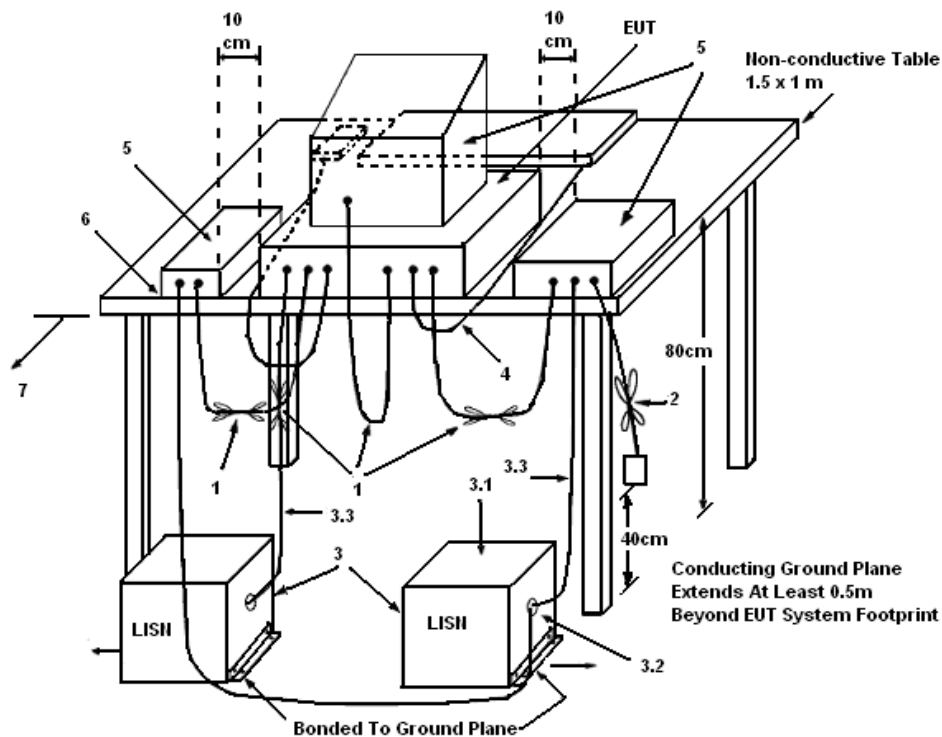
Please refer to section 5 of equipments list in this report. The following table is the setting of the receiver.

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

4.1.3. Test Procedures

1. The EUT or host of EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
4. The frequency range from 150 KHz to 30 MHz was searched.
5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. The measurement has to be done between each power line and ground at the power terminal.

4.1.4. Test Setup Layout



LEGEND:

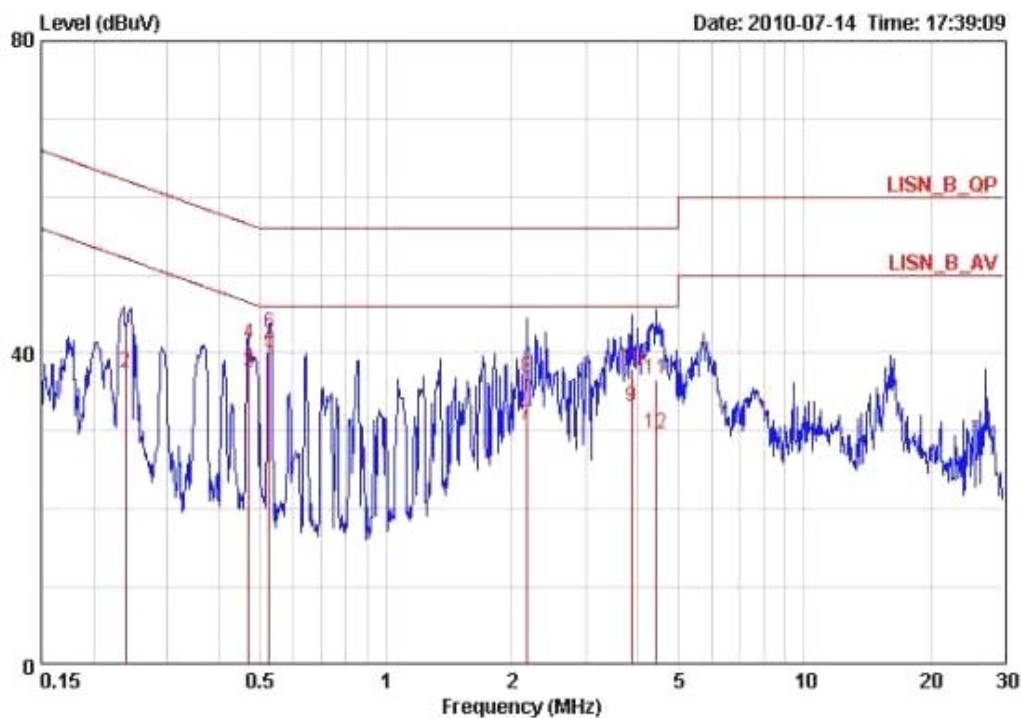
- (1) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- (2) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- (3) EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω . LISN can be placed on top of, or immediately beneath, reference ground plane.
- (3.1) All other equipment powered from additional LISN(s).
- (3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
- (3.3) LISN at least 80 cm from nearest part of EUT chassis.
- (4) Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.
- (5) Non-EUT components of EUT system being tested.
- (6) Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.
- (7) Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

4.1.5. Test Deviation

There is no deviation with the original standard.

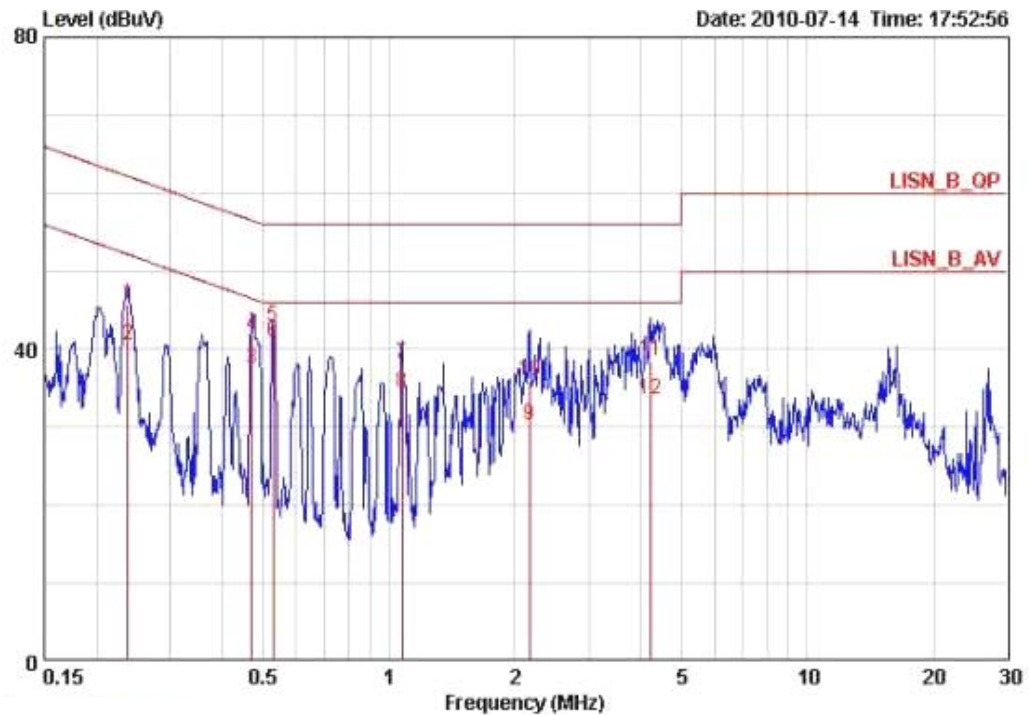
4.1.6. Results of AC Power Line Conducted Emissions Measurement

Temperature	24.1°C	Humidity	52.1%
Test Engineer	Beck Wu	Phase	Line
Configuration	Normal Link / Mode 5		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.23922	43.28	-18.84	62.12	43.01	0.07	0.20	QP
2	0.23922	37.46	-14.66	52.12	37.19	0.07	0.20	AVERAGE
3	0.47110	37.55	-8.94	46.49	37.35	0.00	0.20	AVERAGE
4	0.47110	41.15	-15.34	56.49	40.95	0.00	0.20	QP
5	0.52655	40.11	-5.89	46.00	39.91	0.00	0.20	AVERAGE
6	0.52655	42.47	-13.53	56.00	42.27	0.00	0.20	QP
7	2.167	30.69	-15.31	46.00	30.49	0.00	0.20	AVERAGE
8	2.167	36.94	-19.06	56.00	36.74	0.00	0.20	QP
9	3.860	33.11	-12.89	46.00	32.81	0.00	0.30	AVERAGE
10	3.860	38.00	-18.00	56.00	37.70	0.00	0.30	QP
11	4.407	36.65	-19.35	56.00	36.34	0.01	0.30	QP
12	4.407	29.55	-16.45	46.00	29.24	0.01	0.30	AVERAGE

Temperature	24.1°C	Humidity	52.1%
Test Engineer	Beck Wu	Phase	Neutral
Configuration	Normal Link / Mode 5		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.23784	45.71	-16.47	62.17	45.43	0.08	0.20	QP
2	0.23784	40.64	-11.54	52.17	40.36	0.08	0.20	AVERAGE
3	0.47110	37.44	-9.05	46.49	37.24	0.00	0.20	AVERAGE
4	0.47110	41.93	-14.56	56.49	41.73	0.00	0.20	QP
5	0.52934	42.87	-13.13	56.00	42.67	0.00	0.20	QP
6	0.52934	40.88	-5.12	46.00	40.68	0.00	0.20	AVERAGE
7	1.077	38.06	-17.94	56.00	37.88	0.00	0.18	QP
8	1.077	34.36	-11.64	46.00	34.18	0.00	0.18	AVERAGE
9	2.167	30.26	-15.74	46.00	30.06	0.00	0.20	AVERAGE
10	2.167	36.07	-19.93	56.00	35.87	0.00	0.20	QP
11	4.224	38.59	-17.41	56.00	38.28	0.01	0.30	QP
12	4.224	33.60	-12.40	46.00	33.29	0.01	0.30	AVERAGE

Note:

Level = Read Level + LISN Factor + Cable Loss.

4.2. Maximum Conducted Output Power Measurement

4.2.1. 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.

4.2.2. Measuring Instruments and Setting

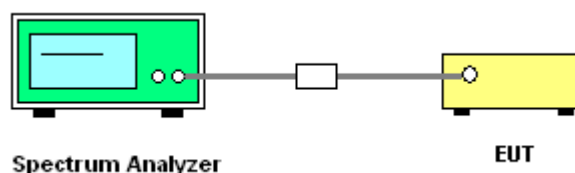
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

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

4.2.3. 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.

4.2.4. 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 Maximum Conducted Output Power

< For Ant. 1 >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Ant. 1

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.71	30.00	Complies
6	2437 MHz	19.32	30.00	Complies
11	2462 MHz	15.10	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.46	30.00	Complies
6	2437 MHz	18.84	30.00	Complies
11	2462 MHz	15.27	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	19.60	30.00	Complies
6	2437 MHz	22.10	30.00	Complies
11	2462 MHz	18.20	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	17.09	30.00	Complies
6	2437 MHz	18.53	30.00	Complies
9	2452 MHz	14.60	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	15.87	30.00	Complies
6	2437 MHz	18.42	30.00	Complies
9	2452 MHz	14.85	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	19.53	30.00	Complies
6	2437 MHz	21.49	30.00	Complies
9	2452 MHz	17.74	30.00	Complies

For 5GHz Band

Configuration IEEE 802.11n MCS8 20MHz A1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	21.11	30.00	Complies
157	5785 MHz	20.49	30.00	Complies
165	5825 MHz	19.81	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	21.03	30.00	Complies
157	5785 MHz	20.26	30.00	Complies
165	5825 MHz	19.60	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz A1+A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	24.08	30.00	Complies
157	5785 MHz	23.39	30.00	Complies
165	5825 MHz	22.72	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz A1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	20.17	30.00	Complies
159	5795 MHz	19.80	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	20.61	30.00	Complies
159	5795 MHz	19.89	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz A1+A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	23.41	30.00	Complies
159	5795 MHz	22.86	30.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/b/g / Ant. 1

Configuration IEEE 802.11b B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.15	30.00	Complies
6	2437 MHz	22.09	30.00	Complies
11	2462 MHz	16.01	30.00	Complies

Configuration IEEE 802.11b B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.06	30.00	Complies
6	2437 MHz	21.98	30.00	Complies
11	2462 MHz	15.67	30.00	Complies

Configuration IEEE 802.11b B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	20.12	30.00	Complies
6	2437 MHz	25.05	30.00	Complies
11	2462 MHz	18.85	30.00	Complies

Configuration IEEE 802.11g B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.76	30.00	Complies
6	2437 MHz	20.81	30.00	Complies
11	2462 MHz	13.68	30.00	Complies

Configuration IEEE 802.11g B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.41	30.00	Complies
6	2437 MHz	21.00	30.00	Complies
11	2462 MHz	14.29	30.00	Complies

Configuration IEEE 802.11g B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.11	30.00	Complies
6	2437 MHz	23.92	30.00	Complies
11	2462 MHz	17.01	30.00	Complies

Configuration IEEE 802.11a A1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	20.41	30.00	Complies
157	5785 MHz	20.00	30.00	Complies
165	5825 MHz	19.13	30.00	Complies

Configuration IEEE 802.11a A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	20.55	30.00	Complies
157	5785 MHz	20.03	30.00	Complies
165	5825 MHz	19.00	30.00	Complies

Configuration IEEE 802.11a A1+A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	23.49	30.00	Complies
157	5785 MHz	23.03	30.00	Complies
165	5825 MHz	22.08	30.00	Complies

Note: All the test values were listed in the report.

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

< For Ant. 2 >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Ant. 2

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.19	30.00	Complies
6	2437 MHz	20.92	30.00	Complies
11	2462 MHz	15.16	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.05	30.00	Complies
6	2437 MHz	21.08	30.00	Complies
11	2462 MHz	15.07	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	19.13	30.00	Complies
6	2437 MHz	24.01	30.00	Complies
11	2462 MHz	18.13	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	15.59	30.00	Complies
6	2437 MHz	18.08	30.00	Complies
9	2452 MHz	14.20	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	15.02	30.00	Complies
6	2437 MHz	17.71	30.00	Complies
9	2452 MHz	13.90	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	18.32	30.00	Complies
6	2437 MHz	20.91	30.00	Complies
9	2452 MHz	17.06	30.00	Complies

For 5GHz Band

Configuration IEEE 802.11n MCS8 20MHz A1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.22	30.00	Complies
157	5785 MHz	18.99	30.00	Complies
165	5825 MHz	18.16	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.14	30.00	Complies
157	5785 MHz	18.77	30.00	Complies
165	5825 MHz	18.00	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz A1+A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	22.19	30.00	Complies
157	5785 MHz	21.89	30.00	Complies
165	5825 MHz	21.09	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz A1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	18.98	30.00	Complies
159	5795 MHz	18.72	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	18.96	30.00	Complies
159	5795 MHz	18.38	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz A1+A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	21.98	30.00	Complies
159	5795 MHz	21.56	30.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/b/g / Ant. 2

Configuration IEEE 802.11b B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.41	30.00	Complies
6	2437 MHz	20.72	30.00	Complies
11	2462 MHz	15.34	30.00	Complies

Configuration IEEE 802.11b B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.68	30.00	Complies
6	2437 MHz	20.89	30.00	Complies
11	2462 MHz	14.89	30.00	Complies

Configuration IEEE 802.11b B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	20.07	30.00	Complies
6	2437 MHz	23.82	30.00	Complies
11	2462 MHz	18.13	30.00	Complies

Configuration IEEE 802.11g B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.00	30.00	Complies
6	2437 MHz	20.67	30.00	Complies
11	2462 MHz	13.73	30.00	Complies

Configuration IEEE 802.11g B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.13	30.00	Complies
6	2437 MHz	20.77	30.00	Complies
11	2462 MHz	14.43	30.00	Complies

Configuration IEEE 802.11g B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	20.08	30.00	Complies
6	2437 MHz	23.73	30.00	Complies
11	2462 MHz	17.10	30.00	Complies

Configuration IEEE 802.11a A1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.01	30.00	Complies
157	5785 MHz	18.43	30.00	Complies
165	5825 MHz	17.76	30.00	Complies

Configuration IEEE 802.11a A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.34	30.00	Complies
157	5785 MHz	18.36	30.00	Complies
165	5825 MHz	17.48	30.00	Complies

Configuration IEEE 802.11a A1+A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	22.19	30.00	Complies
157	5785 MHz	21.41	30.00	Complies
165	5825 MHz	20.63	30.00	Complies

Note: All the test values were listed in the report.

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

< For Ant. 3 >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Ant. 3

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	13.94	28.92	Complies
6	2437 MHz	21.35	28.92	Complies
11	2462 MHz	12.96	28.92	Complies

Configuration IEEE 802.11n MCS8 20MHz B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	13.41	28.92	Complies
6	2437 MHz	20.97	28.92	Complies
11	2462 MHz	12.31	28.92	Complies

Configuration IEEE 802.11n MCS8 20MHz B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.69	28.92	Complies
6	2437 MHz	24.17	28.92	Complies
11	2462 MHz	15.66	28.92	Complies

Configuration IEEE 802.11n MCS8 40MHz B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	11.11	28.92	Complies
6	2437 MHz	15.29	28.92	Complies
9	2452 MHz	10.37	28.92	Complies

Configuration IEEE 802.11n MCS8 40MHz B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	10.99	28.92	Complies
6	2437 MHz	14.37	28.92	Complies
9	2452 MHz	10.75	28.92	Complies

Configuration IEEE 802.11n MCS8 40MHz B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	14.06	28.92	Complies
6	2437 MHz	17.86	28.92	Complies
9	2452 MHz	13.57	28.92	Complies

For 5GHz Band

Configuration IEEE 802.11n MCS8 20MHz A1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.22	27.04	Complies
157	5785 MHz	18.99	27.04	Complies
165	5825 MHz	18.16	27.04	Complies

Configuration IEEE 802.11n MCS8 20MHz A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.14	27.04	Complies
157	5785 MHz	18.77	27.04	Complies
165	5825 MHz	18.00	27.04	Complies

Configuration IEEE 802.11n MCS8 20MHz A1+A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	22.19	27.04	Complies
157	5785 MHz	21.89	27.04	Complies
165	5825 MHz	21.09	27.04	Complies

Configuration IEEE 802.11n MCS8 40MHz A1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	18.98	27.04	Complies
159	5795 MHz	18.72	27.04	Complies

Configuration IEEE 802.11n MCS8 40MHz A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	18.96	27.04	Complies
159	5795 MHz	18.38	27.04	Complies

Configuration IEEE 802.11n MCS8 40MHz A1+A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	21.98	27.04	Complies
159	5795 MHz	21.56	27.04	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/b/g / Ant. 3

Configuration IEEE 802.11b B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.53	28.92	Complies
6	2437 MHz	20.06	28.92	Complies
11	2462 MHz	16.12	28.92	Complies

Configuration IEEE 802.11b B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.44	28.92	Complies
6	2437 MHz	19.89	28.92	Complies
11	2462 MHz	15.70	28.92	Complies

Configuration IEEE 802.11b B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.02	28.92	Complies
6	2437 MHz	22.99	28.92	Complies
11	2462 MHz	18.93	28.92	Complies

Configuration IEEE 802.11g B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	14.08	28.92	Complies
6	2437 MHz	19.16	28.92	Complies
11	2462 MHz	12.27	28.92	Complies

Configuration IEEE 802.11g B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	13.93	28.92	Complies
6	2437 MHz	19.10	28.92	Complies
11	2462 MHz	12.01	28.92	Complies

Configuration IEEE 802.11g B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.02	28.92	Complies
6	2437 MHz	22.14	28.92	Complies
11	2462 MHz	15.15	28.92	Complies

Configuration IEEE 802.11a A1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.01	27.04	Complies
157	5785 MHz	18.43	27.04	Complies
165	5825 MHz	17.76	27.04	Complies

Configuration IEEE 802.11a A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.34	27.04	Complies
157	5785 MHz	18.36	27.04	Complies
165	5825 MHz	17.48	27.04	Complies

Configuration IEEE 802.11a A1+A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	22.19	27.04	Complies
157	5785 MHz	21.41	27.04	Complies
165	5825 MHz	20.63	27.04	Complies

Note: All the test values were listed in the report.

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

< For Ant. 4 >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Ant. 4

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	13.94	26.02	Complies
6	2437 MHz	21.35	26.02	Complies
11	2462 MHz	12.96	26.02	Complies

Configuration IEEE 802.11n MCS8 20MHz B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	13.41	26.02	Complies
6	2437 MHz	20.97	26.02	Complies
11	2462 MHz	12.31	26.02	Complies

Configuration IEEE 802.11n MCS8 20MHz B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.69	26.02	Complies
6	2437 MHz	24.17	26.02	Complies
11	2462 MHz	15.66	26.02	Complies

Configuration IEEE 802.11n MCS8 40MHz B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	11.31	26.02	Complies
6	2437 MHz	15.49	26.02	Complies
9	2452 MHz	8.74	26.02	Complies

Configuration IEEE 802.11n MCS8 40MHz B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	10.23	26.02	Complies
6	2437 MHz	14.19	26.02	Complies
9	2452 MHz	8.51	26.02	Complies

Configuration IEEE 802.11n MCS8 40MHz B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	13.81	26.02	Complies
6	2437 MHz	17.90	26.02	Complies
9	2452 MHz	11.64	26.02	Complies

For 5GHz Band

Configuration IEEE 802.11n MCS8 20MHz A1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.22	24.24	Complies
157	5785 MHz	18.99	24.24	Complies
165	5825 MHz	18.16	24.24	Complies

Configuration IEEE 802.11n MCS8 20MHz A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.14	24.24	Complies
157	5785 MHz	18.77	24.24	Complies
165	5825 MHz	18.00	24.24	Complies

Configuration IEEE 802.11n MCS8 20MHz A1+A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	22.19	24.24	Complies
157	5785 MHz	21.89	24.24	Complies
165	5825 MHz	21.09	24.24	Complies

Configuration IEEE 802.11n MCS8 40MHz A1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	18.98	24.24	Complies
159	5795 MHz	18.72	24.24	Complies

Configuration IEEE 802.11n MCS8 40MHz A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	18.96	24.24	Complies
159	5795 MHz	18.38	24.24	Complies

Configuration IEEE 802.11n MCS8 40MHz A1+A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	21.98	24.24	Complies
159	5795 MHz	21.56	24.24	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/b/g / Ant. 4

Configuration IEEE 802.11b B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.53	26.02	Complies
6	2437 MHz	20.06	26.02	Complies
11	2462 MHz	17.57	26.02	Complies

Configuration IEEE 802.11b B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.44	26.02	Complies
6	2437 MHz	19.89	26.02	Complies
11	2462 MHz	16.89	26.02	Complies

Configuration IEEE 802.11b B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.02	26.02	Complies
6	2437 MHz	22.99	26.02	Complies
11	2462 MHz	20.25	26.02	Complies

Configuration IEEE 802.11g B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	14.38	26.02	Complies
6	2437 MHz	19.16	26.02	Complies
11	2462 MHz	12.27	26.02	Complies

Configuration IEEE 802.11g B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	14.29	26.02	Complies
6	2437 MHz	19.10	26.02	Complies
11	2462 MHz	12.01	26.02	Complies

Configuration IEEE 802.11g B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.35	26.02	Complies
6	2437 MHz	22.14	26.02	Complies
11	2462 MHz	15.15	26.02	Complies

Configuration IEEE 802.11a A1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.01	24.24	Complies
157	5785 MHz	18.43	24.24	Complies
165	5825 MHz	17.76	24.24	Complies

Configuration IEEE 802.11a A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.34	24.24	Complies
157	5785 MHz	18.36	24.24	Complies
165	5825 MHz	17.48	24.24	Complies

Configuration IEEE 802.11a A1+A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	22.19	24.24	Complies
157	5785 MHz	21.41	24.24	Complies
165	5825 MHz	20.63	24.24	Complies

Note: All the test values were listed in the report.

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

< For Ant. 5 >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Ant. 5

For 5GHz Band

Configuration IEEE 802.11n MCS8 20MHz A1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	13.72	16.49	Complies
157	5785 MHz	13.66	16.49	Complies
165	5825 MHz	13.81	16.49	Complies

Configuration IEEE 802.11n MCS8 20MHz A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	12.99	16.49	Complies
157	5785 MHz	13.04	16.49	Complies
165	5825 MHz	13.08	16.49	Complies

Configuration IEEE 802.11n MCS8 20MHz A1+A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	16.38	16.49	Complies
157	5785 MHz	16.37	16.49	Complies
165	5825 MHz	16.47	16.49	Complies

Configuration IEEE 802.11n MCS8 40MHz A1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	13.78	16.49	Complies
159	5795 MHz	13.75	16.49	Complies

Configuration IEEE 802.11n MCS8 40MHz A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	12.81	16.49	Complies
159	5795 MHz	12.85	16.49	Complies

Configuration IEEE 802.11n MCS8 40MHz A1+A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	16.33	16.49	Complies
159	5795 MHz	16.33	16.49	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a / Ant. 5

Configuration IEEE 802.11a A1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	13.76	16.49	Complies
157	5785 MHz	13.45	16.49	Complies
165	5825 MHz	13.22	16.49	Complies

Configuration IEEE 802.11a A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	12.84	16.49	Complies
157	5785 MHz	12.71	16.49	Complies
165	5825 MHz	12.40	16.49	Complies

Configuration IEEE 802.11a A1+A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	16.33	16.49	Complies
157	5785 MHz	16.11	16.49	Complies
165	5825 MHz	15.84	16.49	Complies

Note: All the test values were listed in the report.

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

< For Ant. 6 >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Ant. 6

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.58	30.00	Complies
6	2437 MHz	22.14	30.00	Complies
11	2462 MHz	14.70	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.63	30.00	Complies
6	2437 MHz	21.91	30.00	Complies
11	2462 MHz	14.11	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	20.14	30.00	Complies
6	2437 MHz	25.04	30.00	Complies
11	2462 MHz	17.43	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	13.02	30.00	Complies
6	2437 MHz	16.54	30.00	Complies
9	2452 MHz	11.48	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	13.10	30.00	Complies
6	2437 MHz	16.68	30.00	Complies
9	2452 MHz	11.50	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	16.07	30.00	Complies
6	2437 MHz	19.62	30.00	Complies
9	2452 MHz	14.50	30.00	Complies

For 5GHz Band

Configuration IEEE 802.11n MCS8 20MHz A1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.22	30.00	Complies
157	5785 MHz	18.99	30.00	Complies
165	5825 MHz	18.16	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.14	30.00	Complies
157	5785 MHz	18.77	30.00	Complies
165	5825 MHz	18.00	30.00	Complies

Configuration IEEE 802.11n MCS8 20MHz A1+A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	22.19	30.00	Complies
157	5785 MHz	21.89	30.00	Complies
165	5825 MHz	21.09	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz A1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	18.98	30.00	Complies
159	5795 MHz	18.72	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	18.96	30.00	Complies
159	5795 MHz	18.38	30.00	Complies

Configuration IEEE 802.11n MCS8 40MHz A1+A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	21.98	30.00	Complies
159	5795 MHz	21.56	30.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/b/g / Ant. 6

Configuration IEEE 802.11b B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.44	30.00	Complies
6	2437 MHz	20.06	30.00	Complies
11	2462 MHz	17.57	30.00	Complies

Configuration IEEE 802.11b B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.63	30.00	Complies
6	2437 MHz	19.89	30.00	Complies
11	2462 MHz	16.89	30.00	Complies

Configuration IEEE 802.11b B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	21.06	30.00	Complies
6	2437 MHz	22.99	30.00	Complies
11	2462 MHz	20.25	30.00	Complies

Configuration IEEE 802.11g B2

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.95	30.00	Complies
6	2437 MHz	21.69	30.00	Complies
11	2462 MHz	18.84	30.00	Complies

Configuration IEEE 802.11g B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.82	30.00	Complies
6	2437 MHz	21.98	30.00	Complies
11	2462 MHz	18.59	30.00	Complies

Configuration IEEE 802.11g B2+B6

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	19.90	30.00	Complies
6	2437 MHz	24.85	30.00	Complies
11	2462 MHz	21.73	30.00	Complies

Configuration IEEE 802.11a A1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.01	30.00	Complies
157	5785 MHz	18.43	30.00	Complies
165	5825 MHz	17.76	30.00	Complies

Configuration IEEE 802.11a A5

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.34	30.00	Complies
157	5785 MHz	18.36	30.00	Complies
165	5825 MHz	17.48	30.00	Complies

Configuration IEEE 802.11a A1+A5

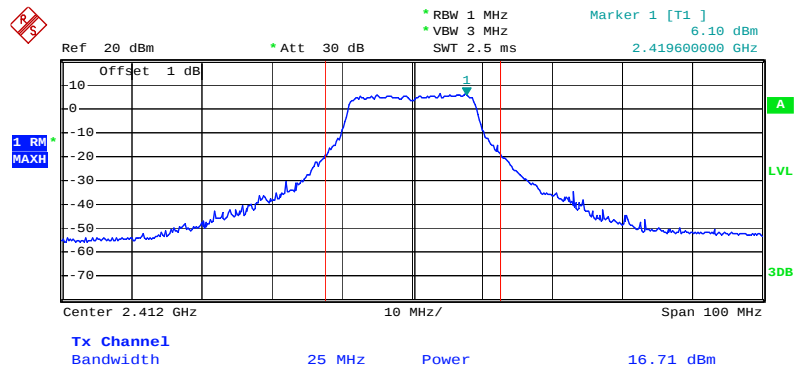
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149	5745 MHz	22.19	30.00	Complies
157	5785 MHz	21.41	30.00	Complies
165	5825 MHz	20.63	30.00	Complies

Note: All the test values were listed in the report.

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

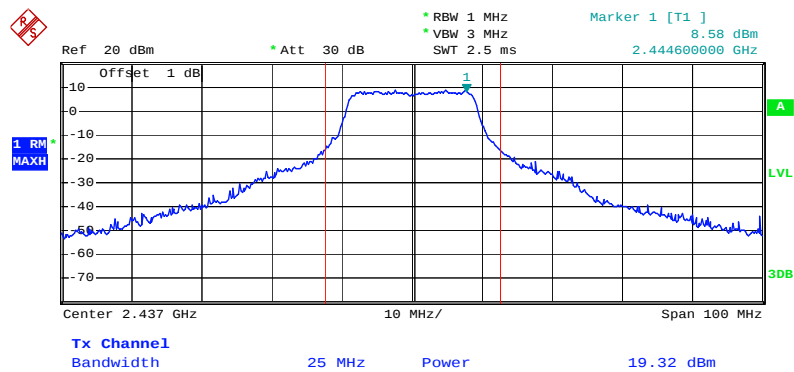
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Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B2 / 2412 MHz



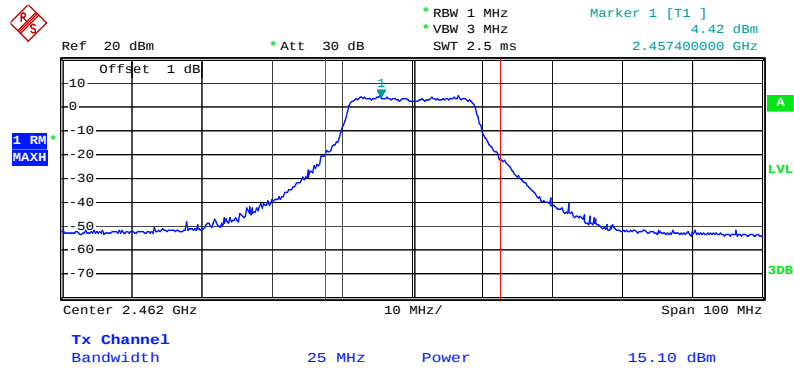
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Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B2 / 2437 MHz



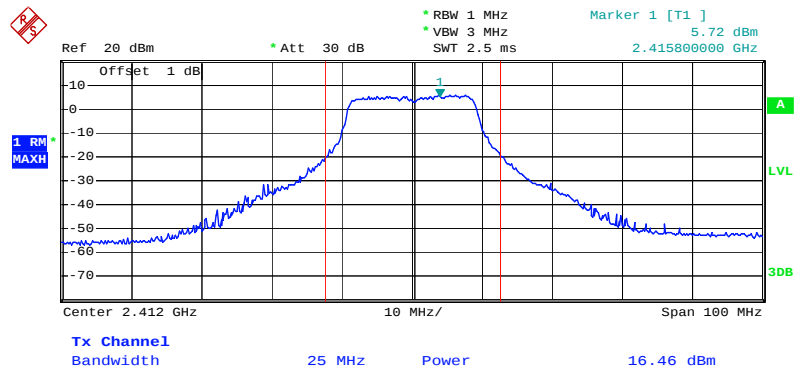
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Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B2 / 2462 MHz



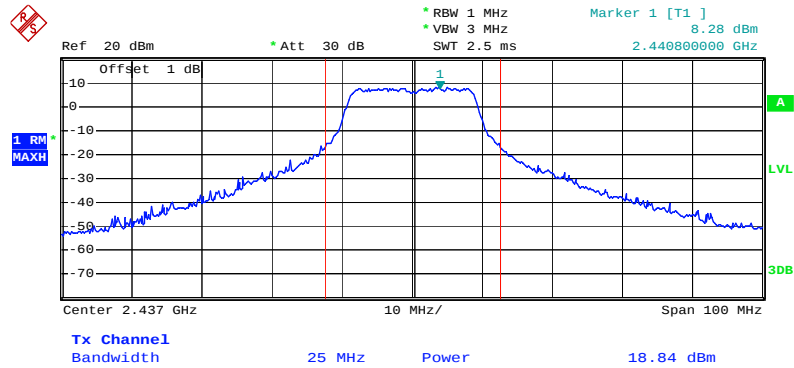
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Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B6 / 2412 MHz



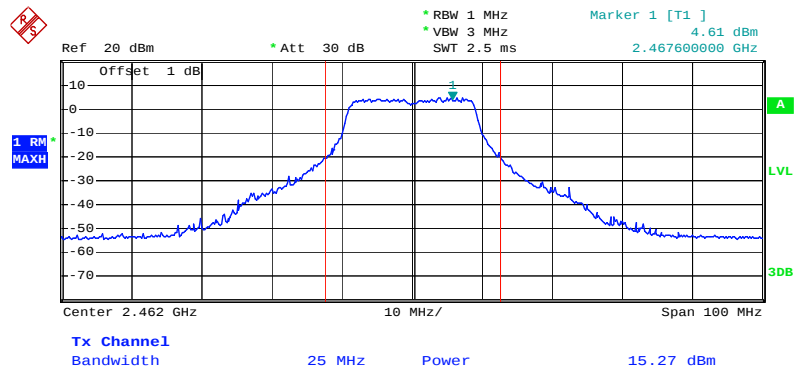
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Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B6 / 2437 MHz



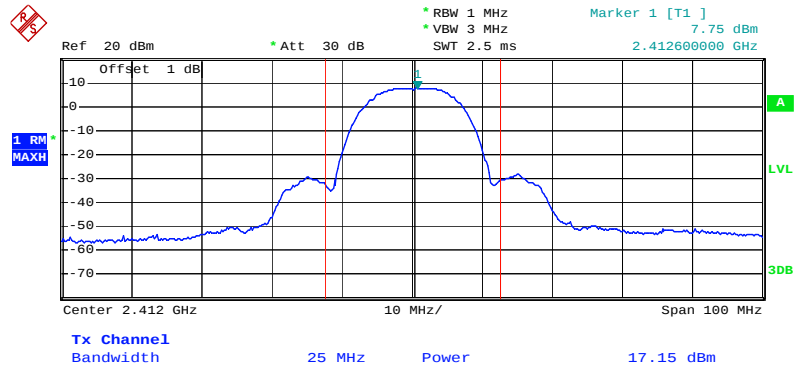
Date: 26.APR.2010 16:10:58

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B6 / 2462 MHz



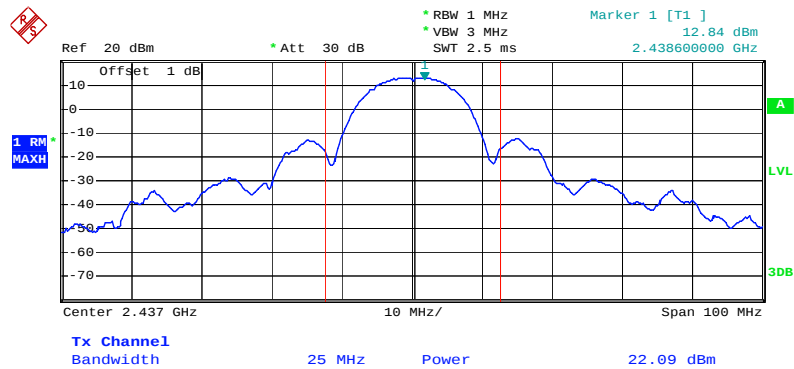
Date: 26.APR.2010 16:08:09

Conducted Output Power Plot on Configuration IEEE 802.11b B2 / 2412 MHz



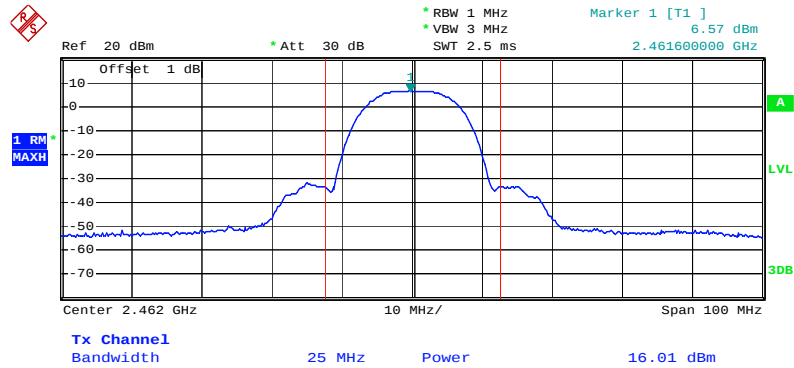
Date: 26.APR.2010 16:26:04

Conducted Output Power Plot on Configuration IEEE 802.11b B2 / 2437 MHz



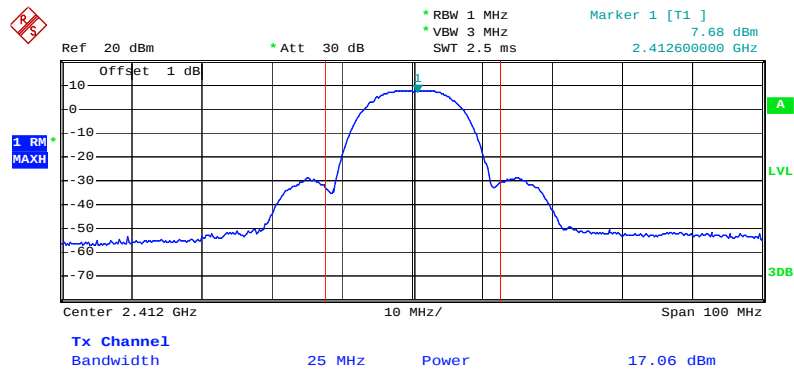
Date: 26.APR.2010 16:24:02

Conducted Output Power Plot on Configuration IEEE 802.11b B2 / 2462 MHz



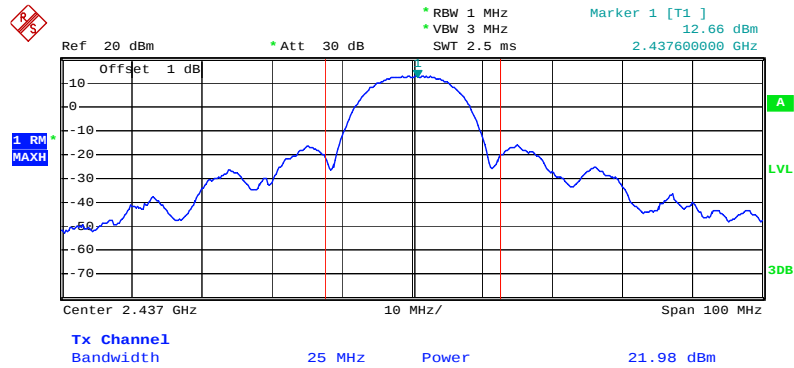
Date: 26.APR.2010 16:23:16

Conducted Output Power Plot on Configuration IEEE 802.11b B6 / 2412 MHz



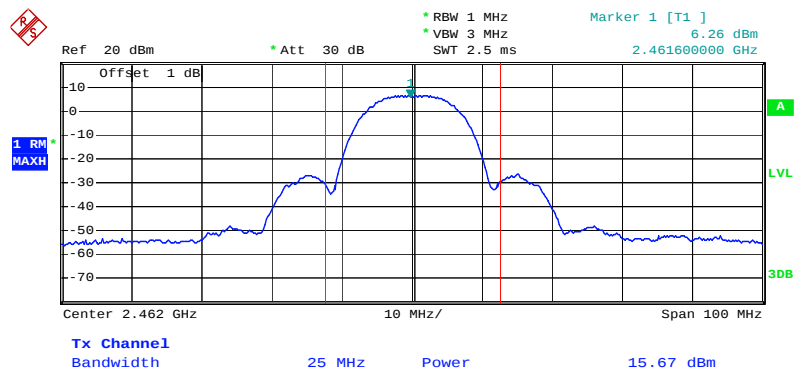
Date: 26.APR.2010 16:25:28

Conducted Output Power Plot on Configuration IEEE 802.11b B6 / 2437 MHz



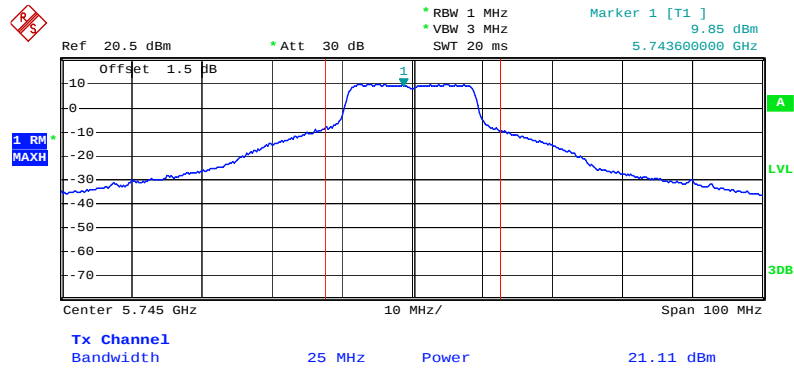
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Conducted Output Power Plot on Configuration IEEE 802.11b B6 / 2462 MHz



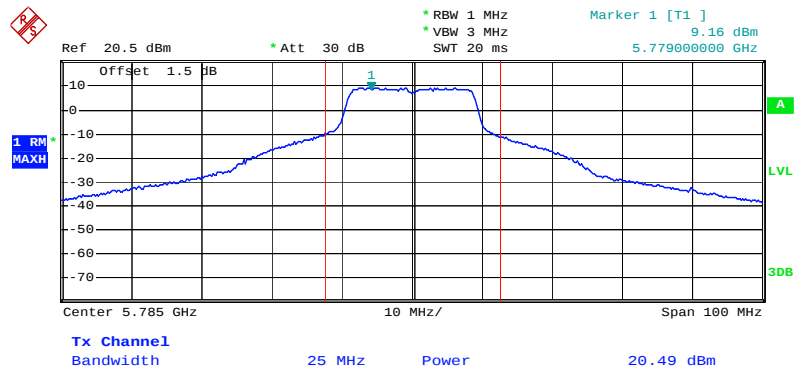
Date: 26.APR.2010 16:22:31

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1 / 5745 MHz



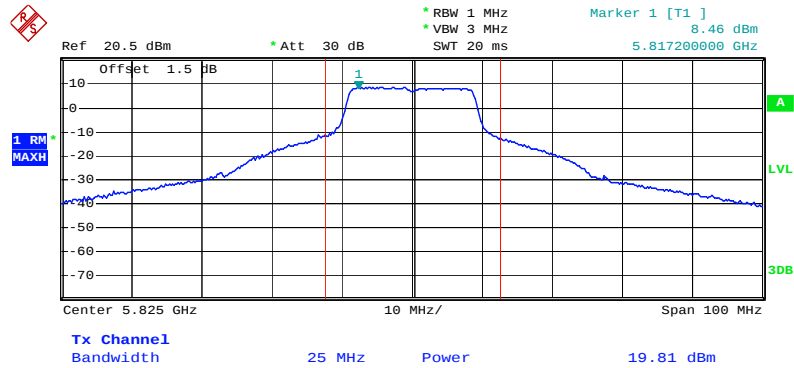
Date: 26.APR.2010 15:13:02

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1 / 5785MHz



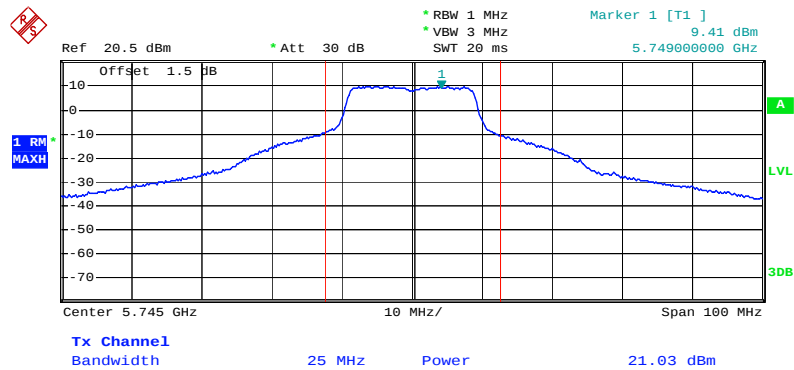
Date: 26.APR.2010 15:14:50

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1 / 5825 MHz



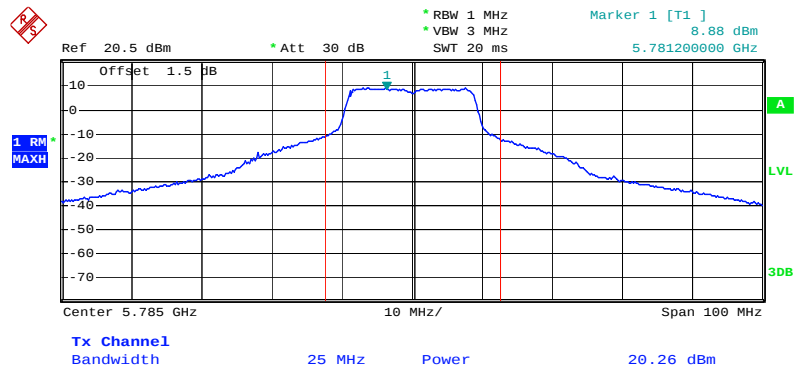
Date: 26.APR.2010 15:15:28

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A5 / 5745 MHz



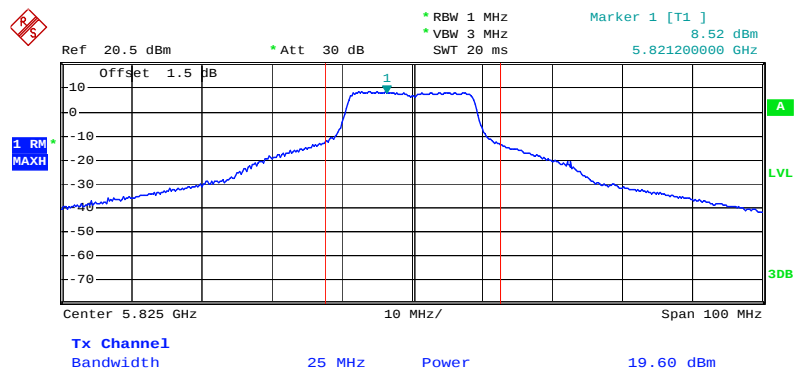
Date: 26.APR.2010 15:13:28

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A5 / 5785MHz



Date: 26.APR.2010 15:14:10

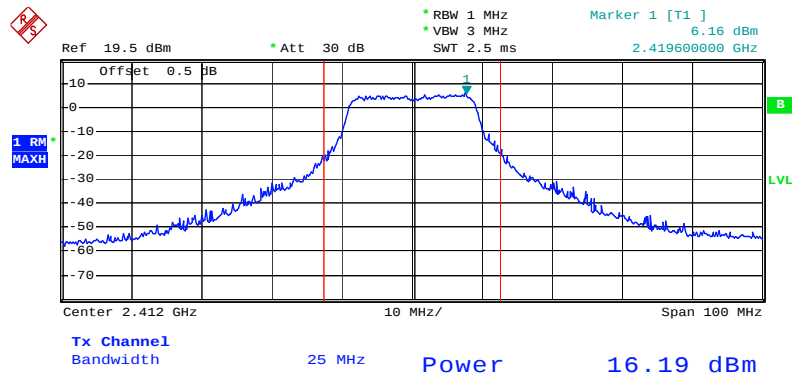
Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A5 / 5825 MHz



Date: 26.APR.2010 15:15:58

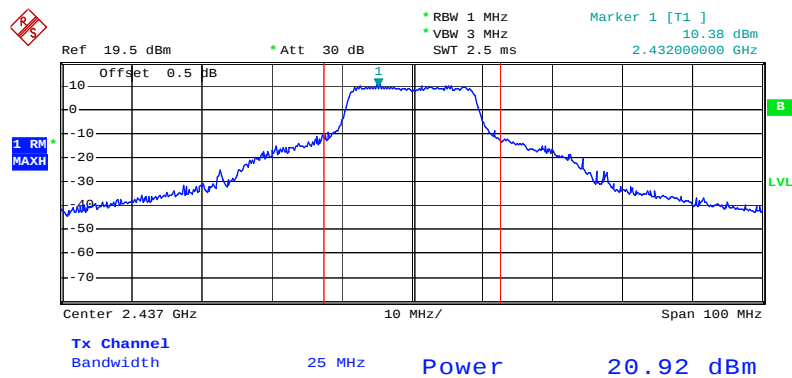
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Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B2 / 2412 MHz



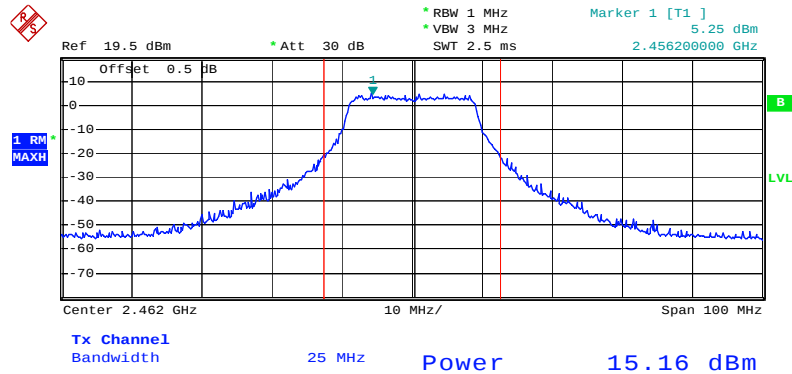
Date: 30.APR.2010 18:38:26

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B2 / 2437 MHz



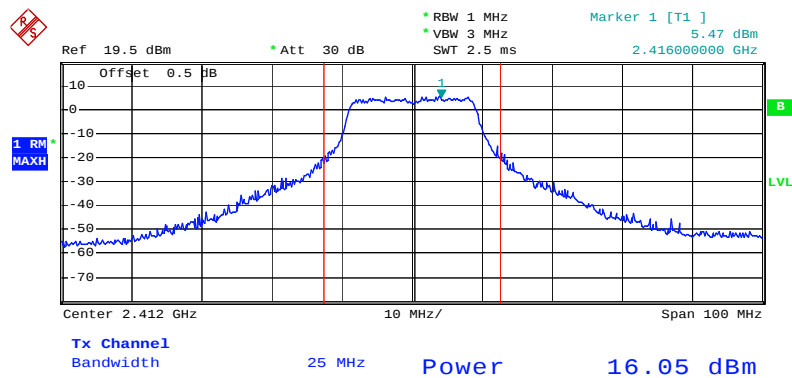
Date: 30.APR.2010 18:40:03

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B2 / 2462 MHz



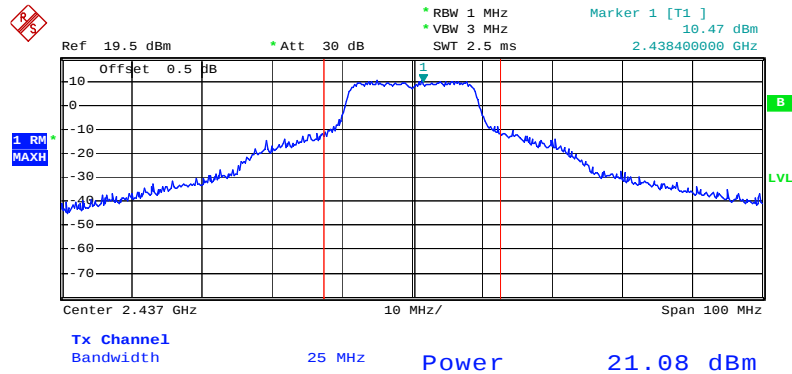
Date: 30.APR.2010 18:40:53

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B6 / 2412 MHz



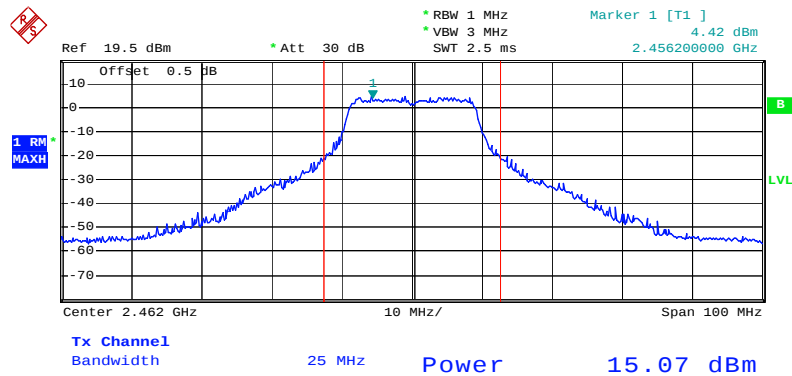
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Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B6 / 2437 MHz



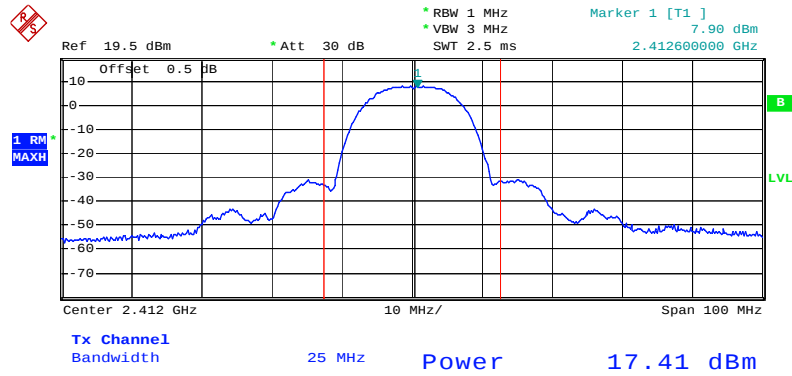
Date: 30.APR.2010 18:39:40

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B6 / 2462 MHz



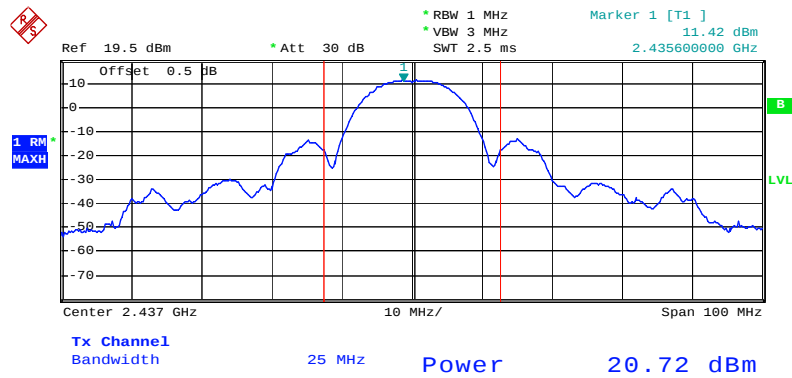
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Conducted Output Power Plot on Configuration IEEE 802.11b B2 / 2412 MHz



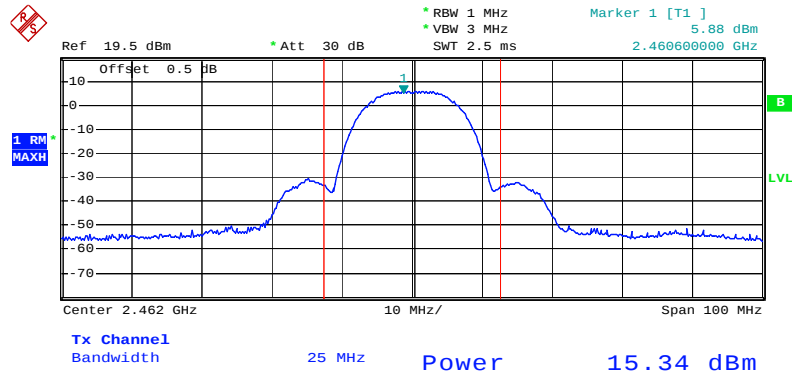
Date: 30.APR.2010 18:31:09

Conducted Output Power Plot on Configuration IEEE 802.11b B2 / 2437 MHz



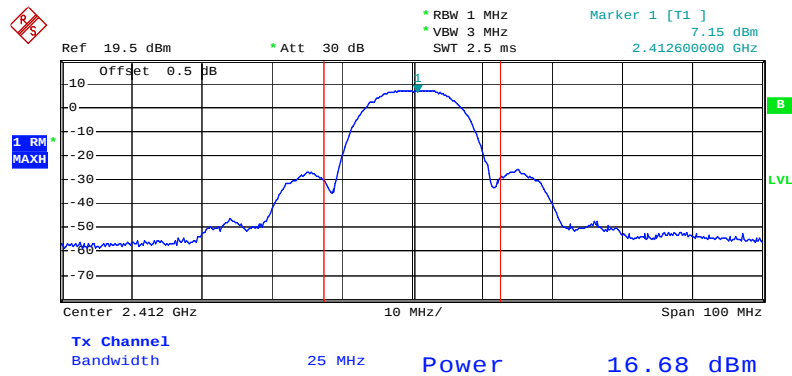
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Conducted Output Power Plot on Configuration IEEE 802.11b B2 / 2462 MHz



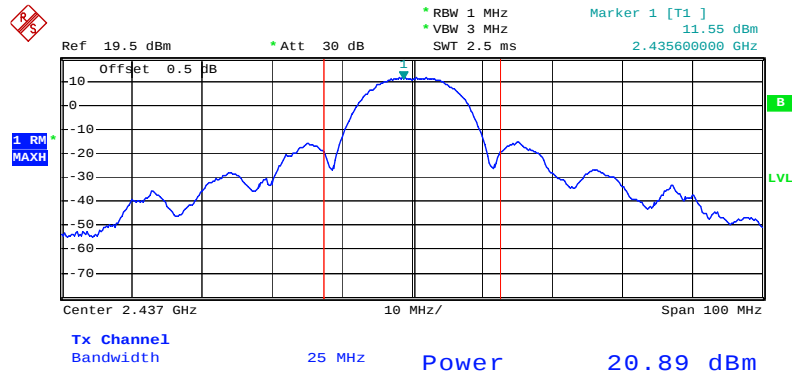
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Conducted Output Power Plot on Configuration IEEE 802.11b B6 / 2412 MHz



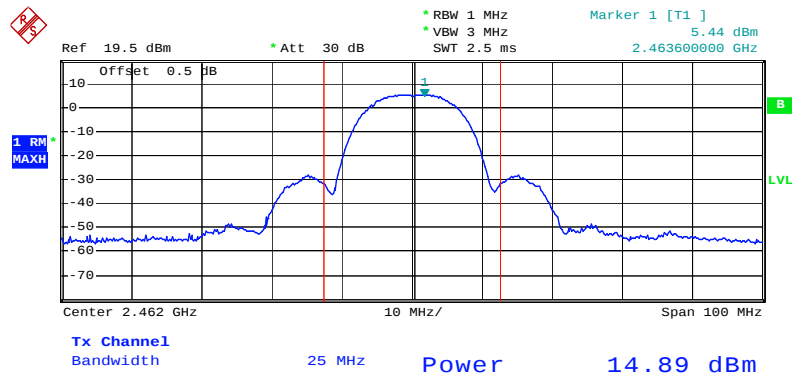
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Conducted Output Power Plot on Configuration IEEE 802.11b B6 / 2437 MHz



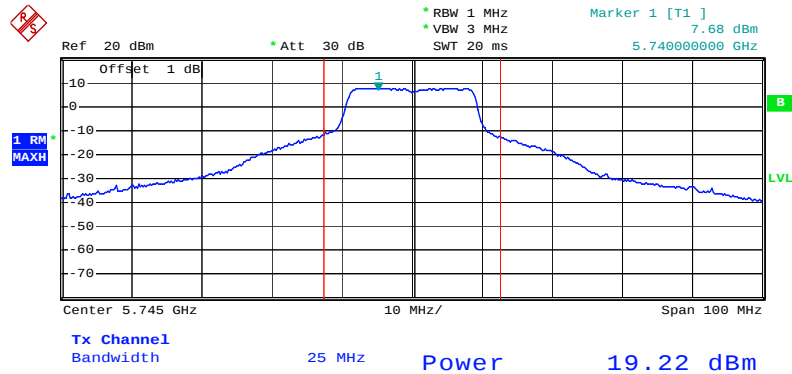
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Conducted Output Power Plot on Configuration IEEE 802.11b B6 / 2462 MHz



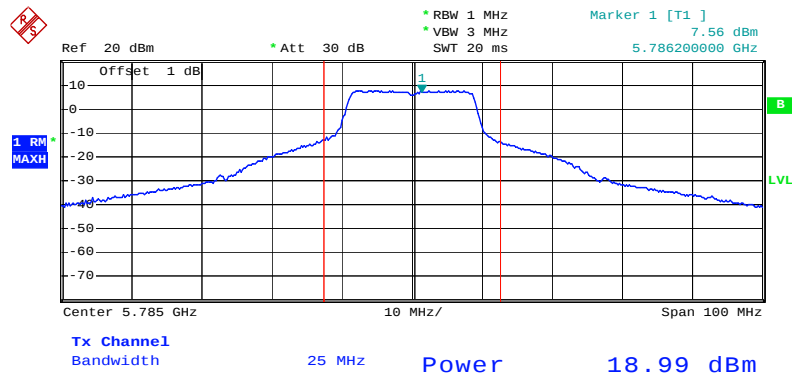
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Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1 / 5745 MHz



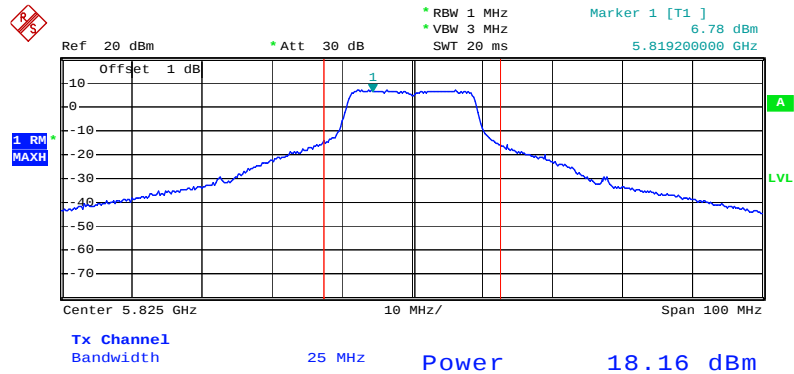
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Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1 / 5785MHz



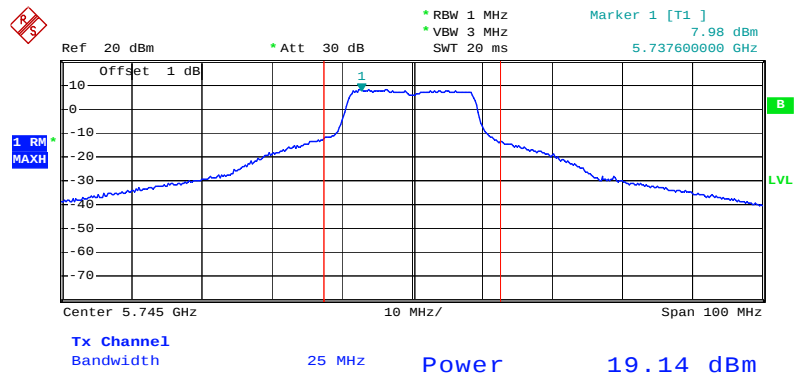
Date: 30.APR.2010 19:55:51

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1 / 5825 MHz



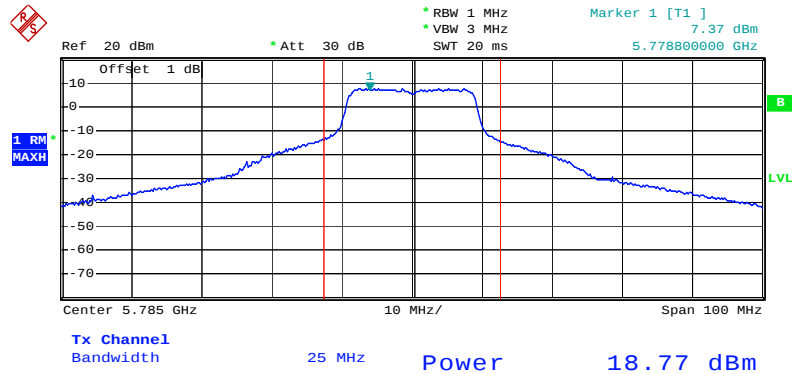
Date: 30.APR.2010 19:57:03

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A5 / 5745 MHz



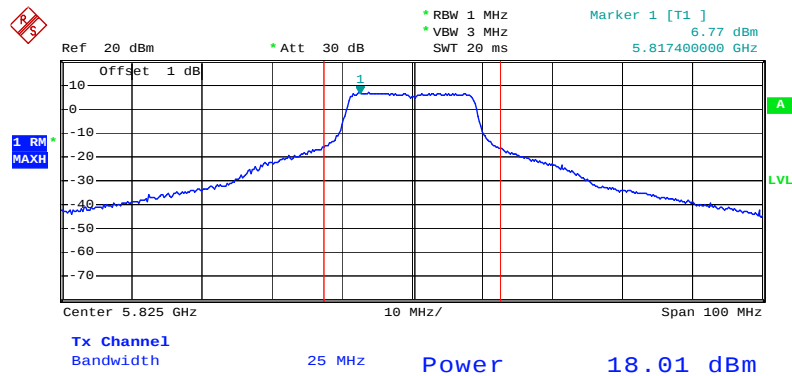
Date: 30.APR.2010 19:55:09

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A5 / 5785MHz



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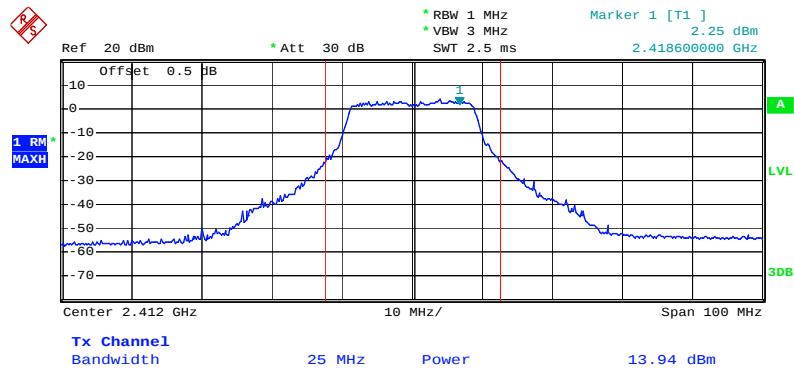
Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A5 / 5825 MHz



Date: 30.APR.2010 19:57:42

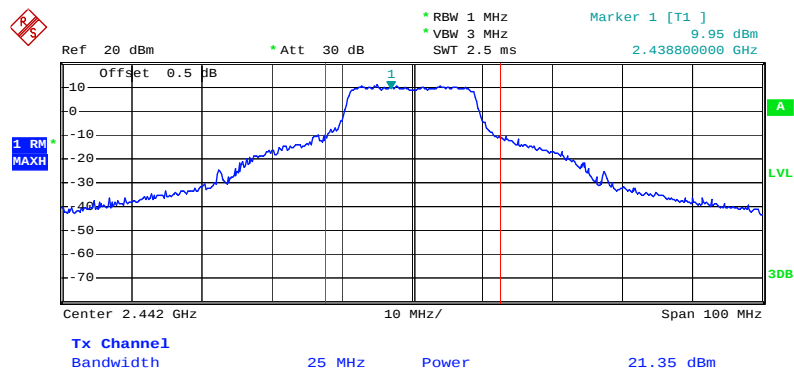
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Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B2 / 2412 MHz



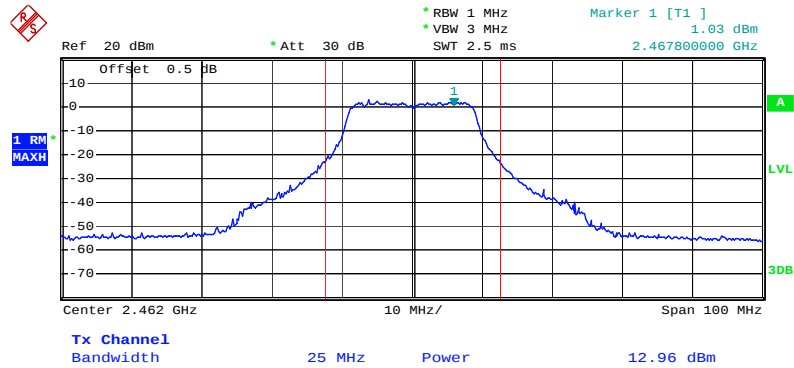
Date: 3.MAY.2010 13:55:33

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B2 / 2437 MHz



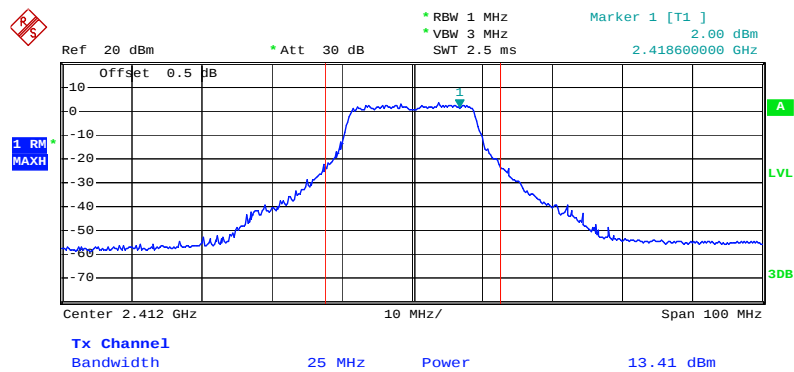
Date: 3.MAY.2010 13:56:32

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B2 / 2462 MHz



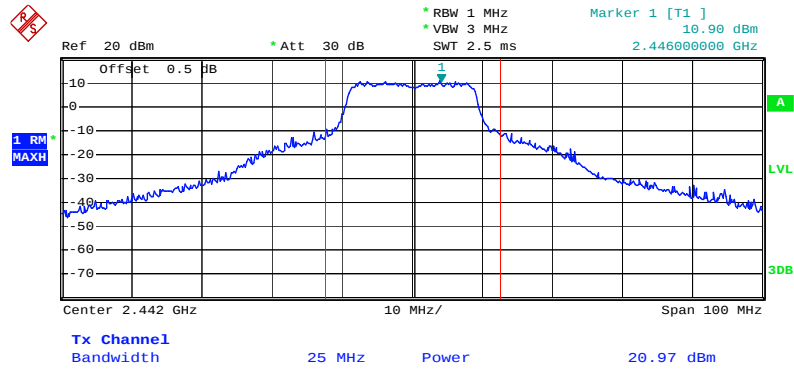
Date: 3.MAY.2010 13:58:37

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B6 / 2412 MHz



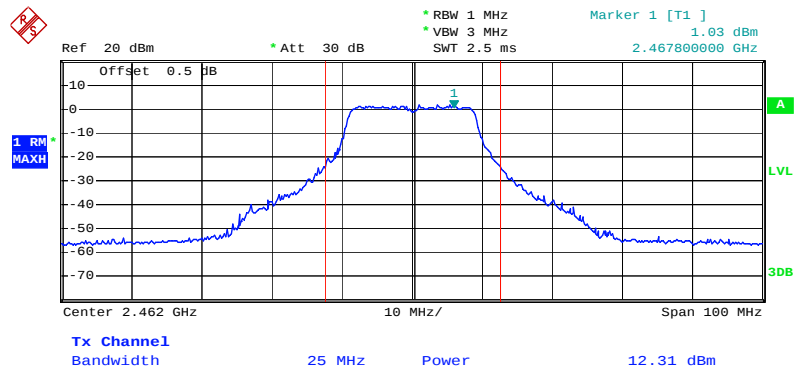
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Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B6 / 2437 MHz



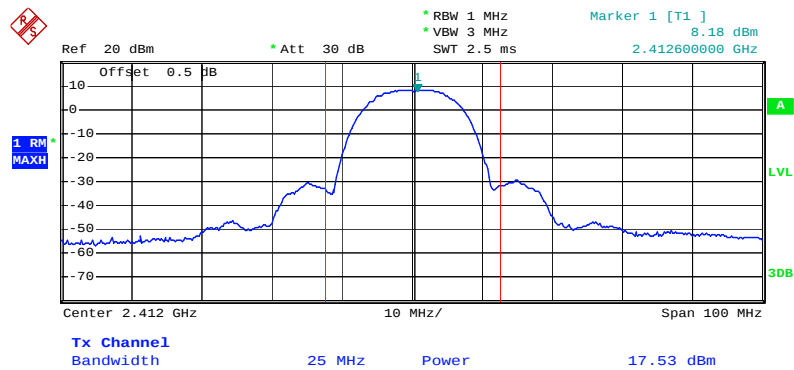
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Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B6 / 2462 MHz



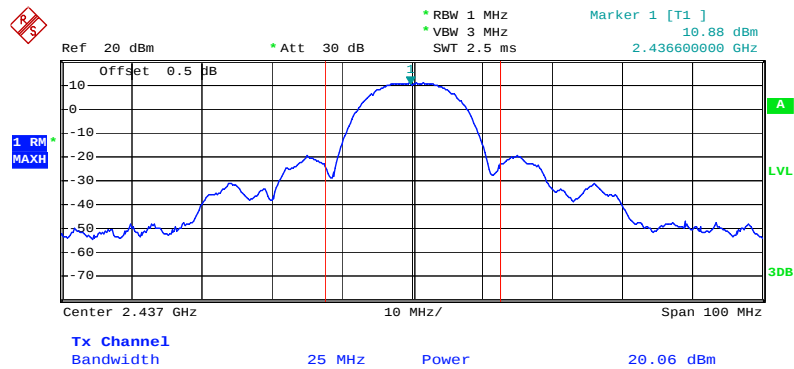
Date: 3.MAY.2010 13:58:04

Conducted Output Power Plot on Configuration IEEE 802.11b B2 / 2412 MHz



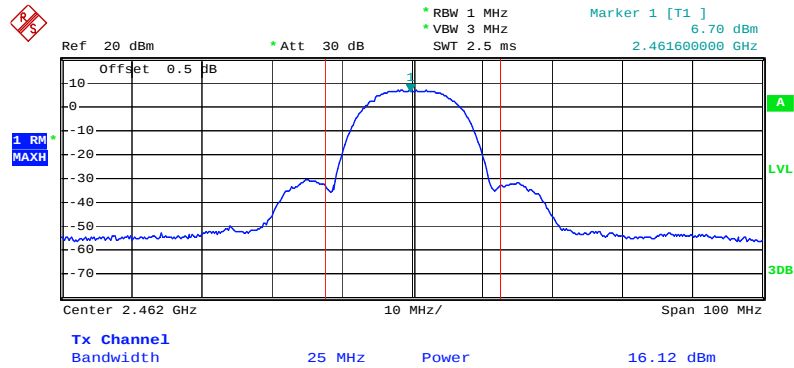
Date: 3.MAY.2010 12:00:12

Conducted Output Power Plot on Configuration IEEE 802.11b B2 / 2437 MHz



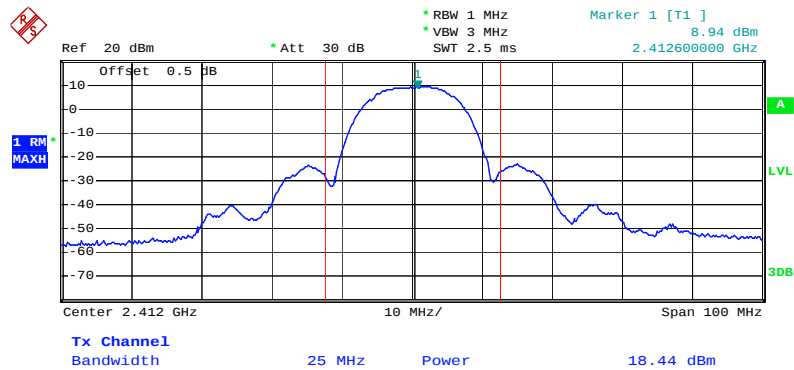
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Conducted Output Power Plot on Configuration IEEE 802.11b B2 / 2462 MHz



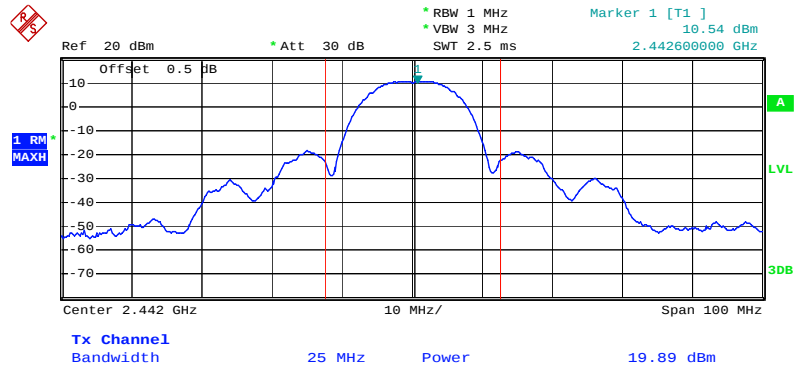
Date: 3.MAY.2010 12:00:58

Conducted Output Power Plot on Configuration IEEE 802.11b B6 / 2412 MHz



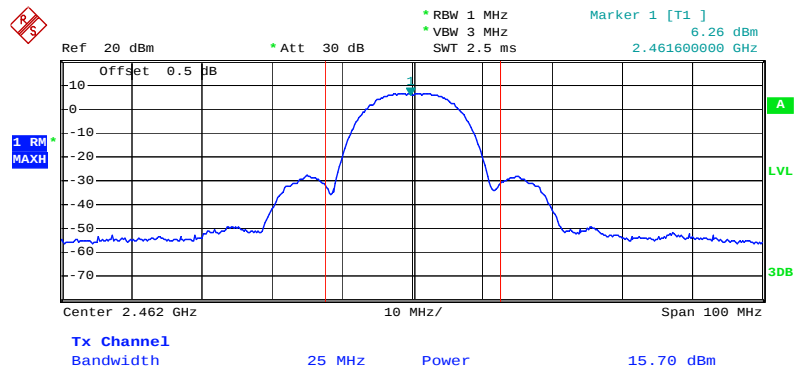
Date: 3.MAY.2010 11:52:14

Conducted Output Power Plot on Configuration IEEE 802.11b B6 / 2437 MHz



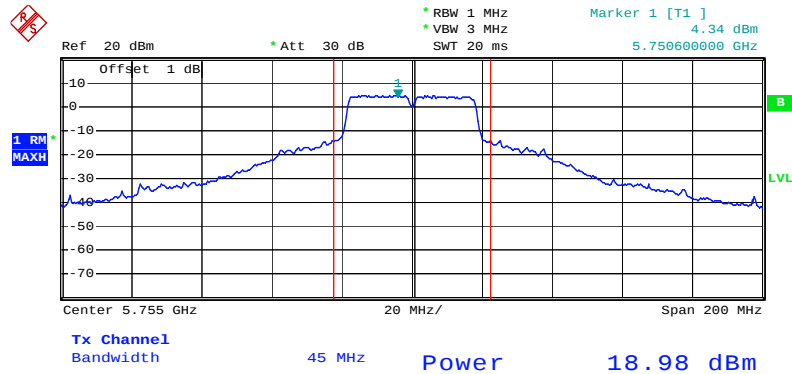
Date: 3.MAY.2010 11:54:26

Conducted Output Power Plot on Configuration IEEE 802.11b B6 / 2462 MHz



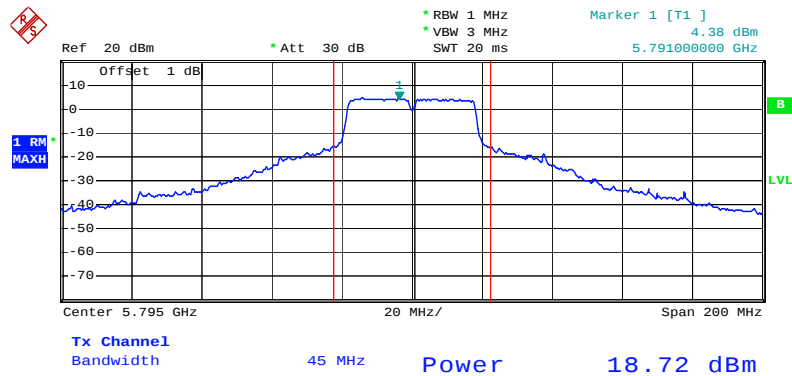
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Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 40MHz A1 / 5755 MHz



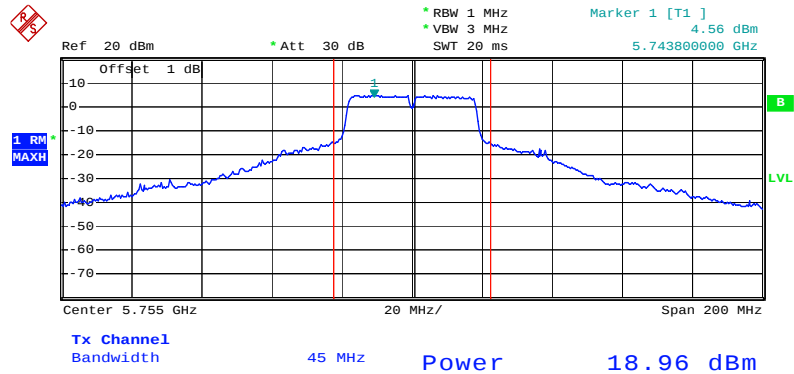
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Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 40MHz A1 / 5795 MHz



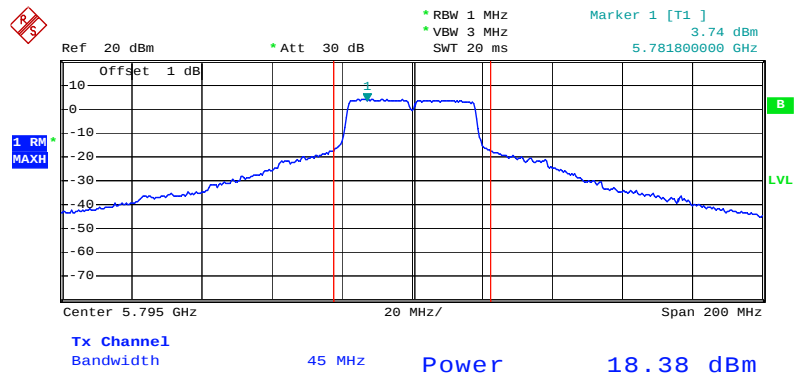
Date: 30.APR.2010 19:53:14

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 40MHz A5 / 5755 MHz



Date: 30.APR.2010 19:53:58

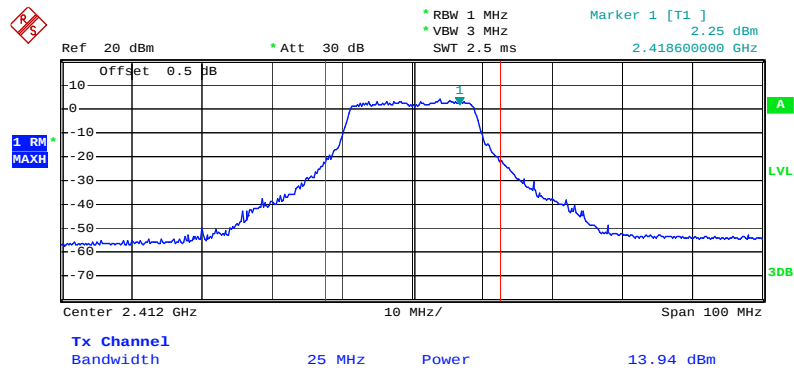
Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 40MHz A5 / 5795 MHz



Date: 30.APR.2010 19:53:40

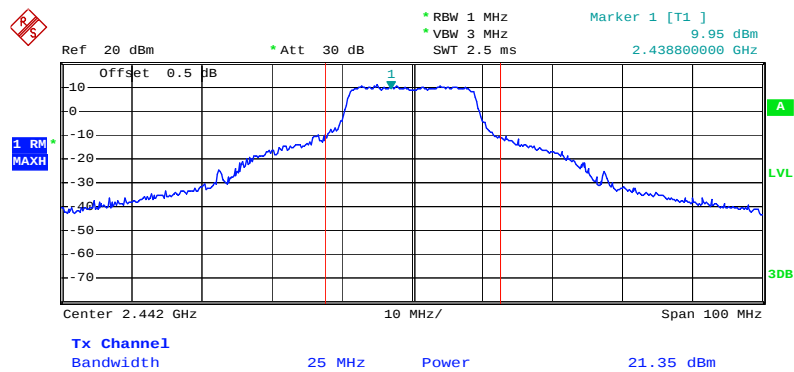
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Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B2 / 2412 MHz



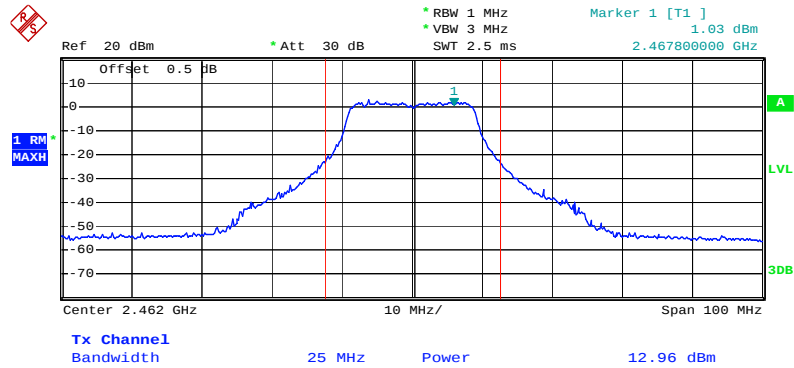
Date: 3.MAY.2010 13:55:33

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B2 / 2437 MHz



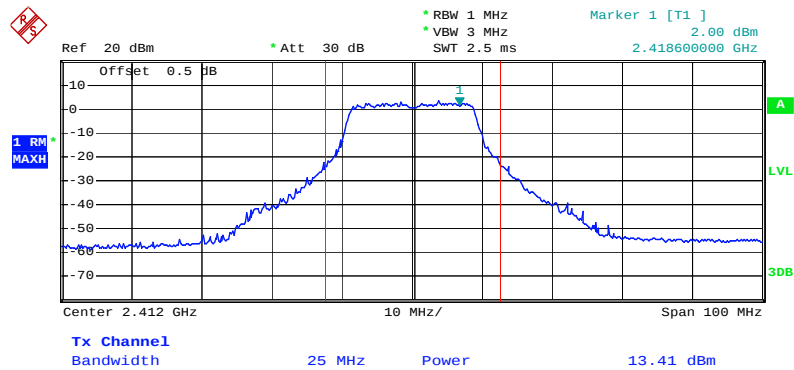
Date: 3.MAY.2010 13:56:32

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B2 / 2462 MHz



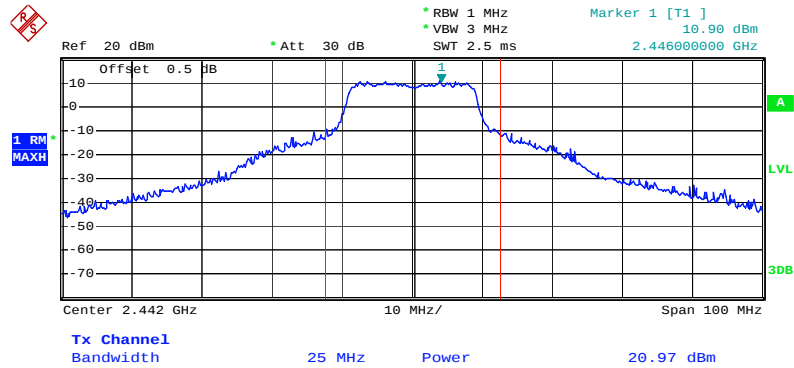
Date: 3.MAY.2010 13:58:37

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B6 / 2412 MHz



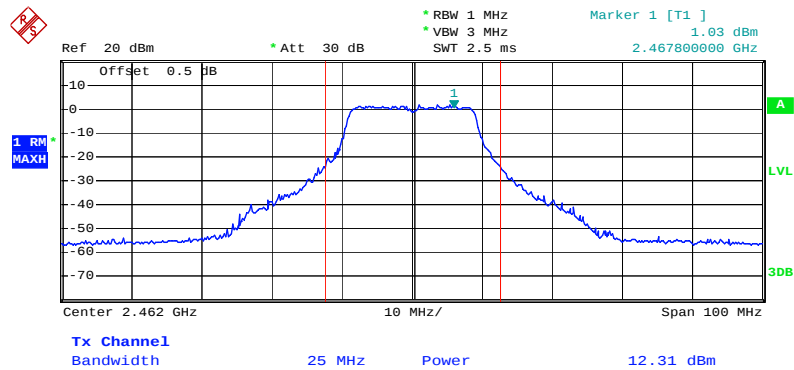
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Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B6 / 2437 MHz



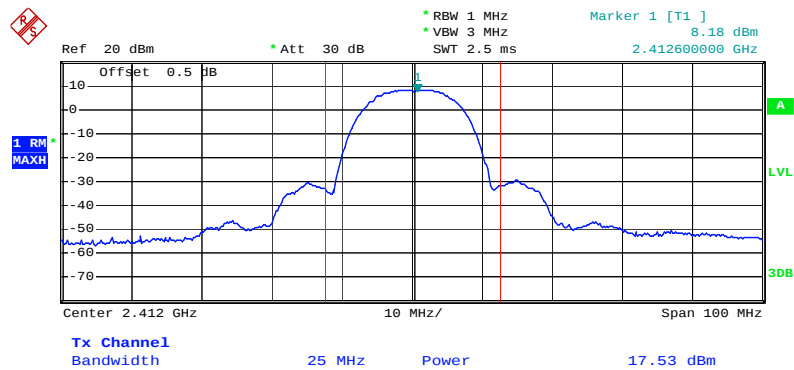
Date: 3.MAY.2010 13:57:15

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B6 / 2462 MHz



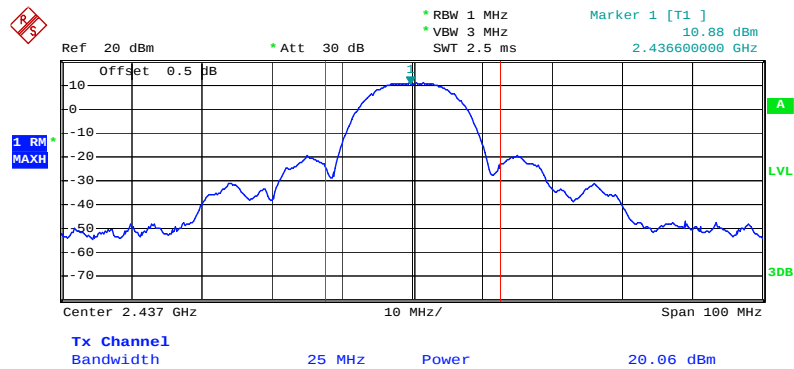
Date: 3.MAY.2010 13:58:04

Conducted Output Power Plot on Configuration IEEE 802.11b B2 / 2412 MHz



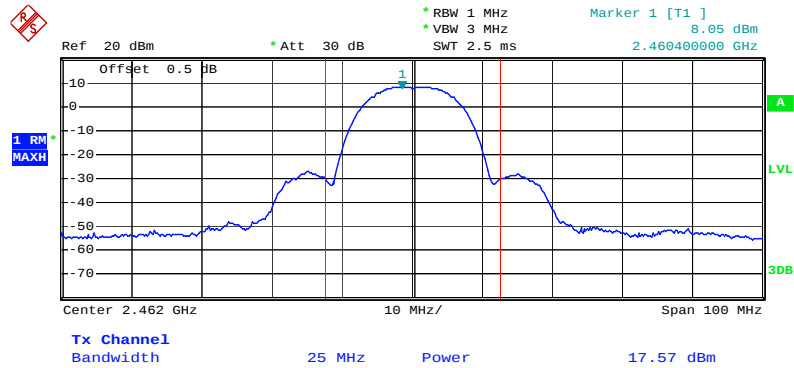
Date: 3.MAY.2010 12:00:12

Conducted Output Power Plot on Configuration IEEE 802.11b B2 / 2437 MHz



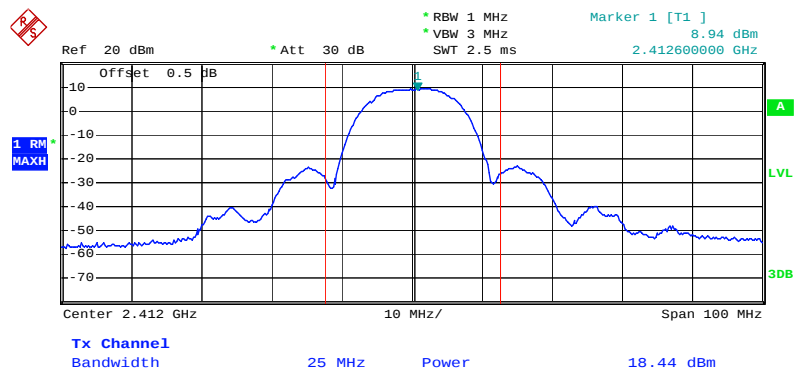
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Conducted Output Power Plot on Configuration IEEE 802.11b B2 / 2462 MHz



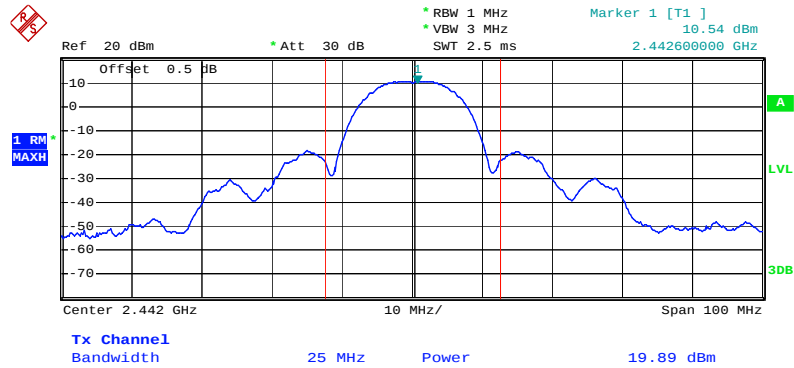
Date: 4.MAY.2010 09:29:55

Conducted Output Power Plot on Configuration IEEE 802.11b B6 / 2412 MHz



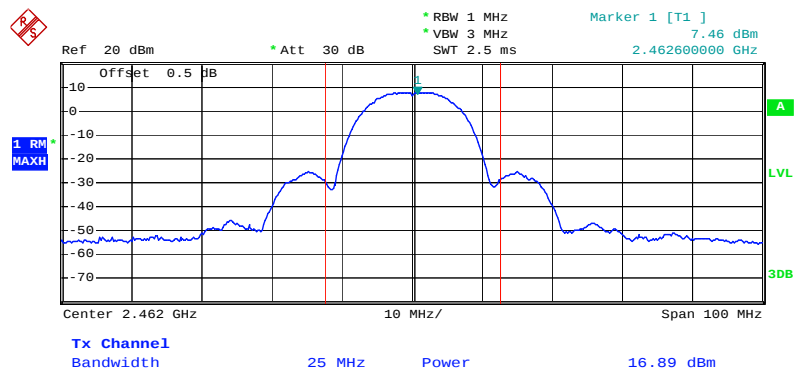
Date: 3.MAY.2010 11:52:14

Conducted Output Power Plot on Configuration IEEE 802.11b B6 / 2437 MHz



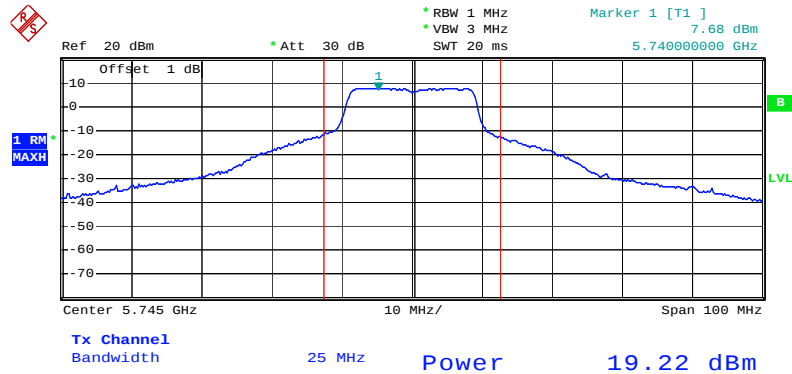
Date: 3.MAY.2010 11:54:26

Conducted Output Power Plot on Configuration IEEE 802.11b B6 / 2462 MHz



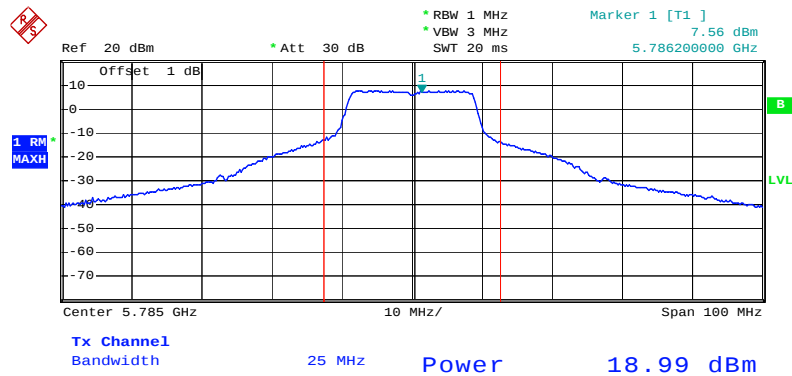
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Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1 / 5745 MHz



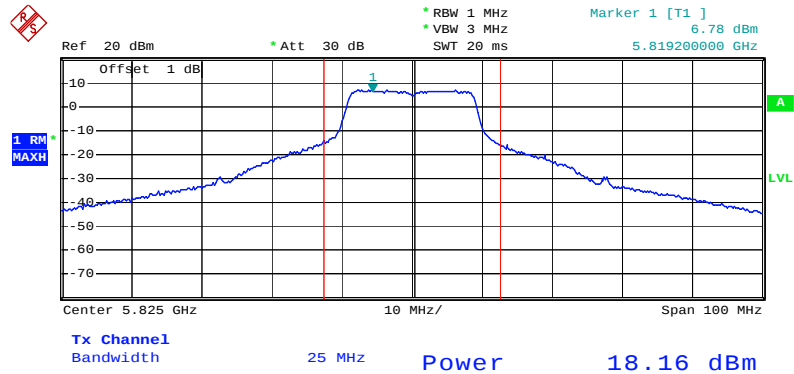
Date: 30.APR.2010 19:54:56

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1 / 5785MHz



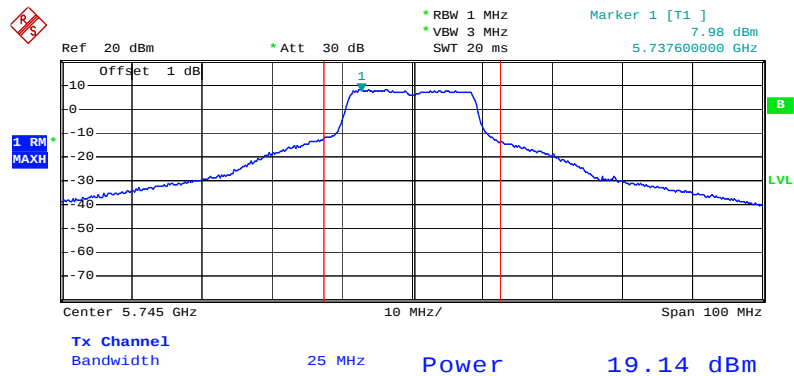
Date: 30.APR.2010 19:55:51

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1 / 5825 MHz



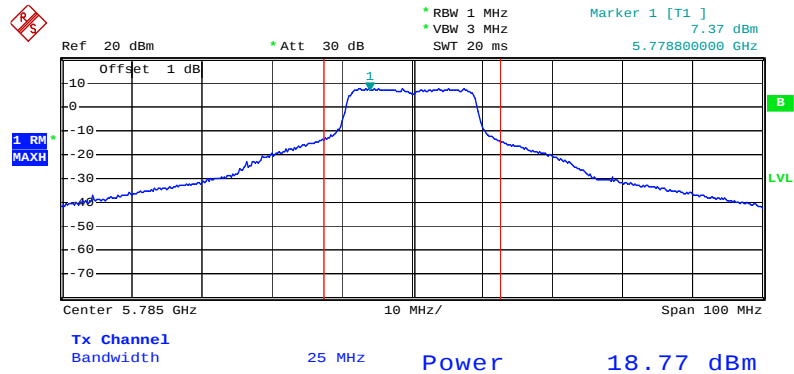
Date: 30.APR.2010 19:57:03

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A5 / 5745 MHz



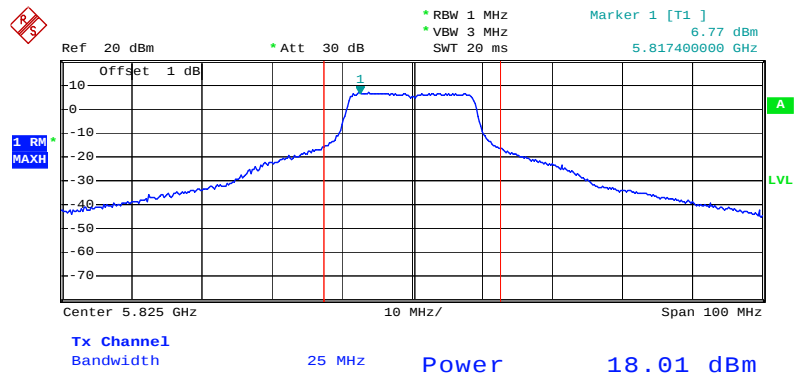
Date: 30.APR.2010 19:55:09

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A5 / 5785MHz



Date: 30.APR.2010 19:55:28

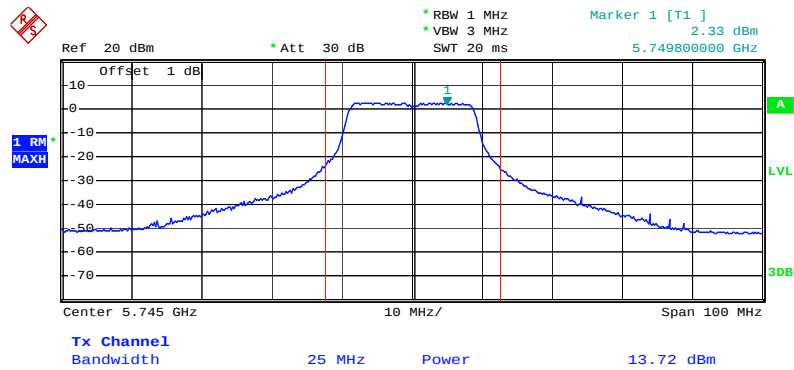
Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A5 / 5825 MHz



Date: 30.APR.2010 19:57:42

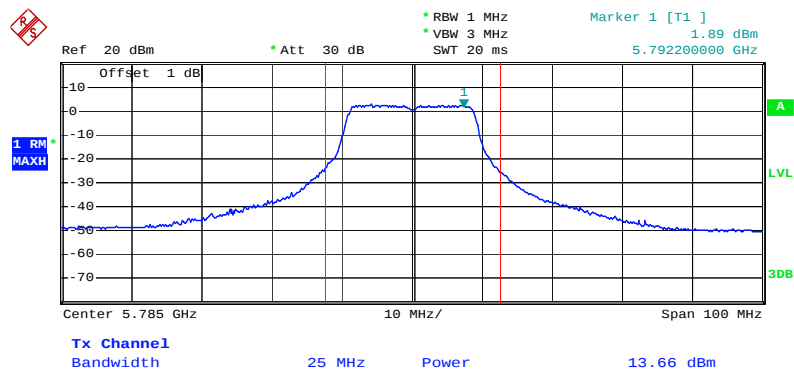
< For Ant. 5 >

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1 / 5745 MHz



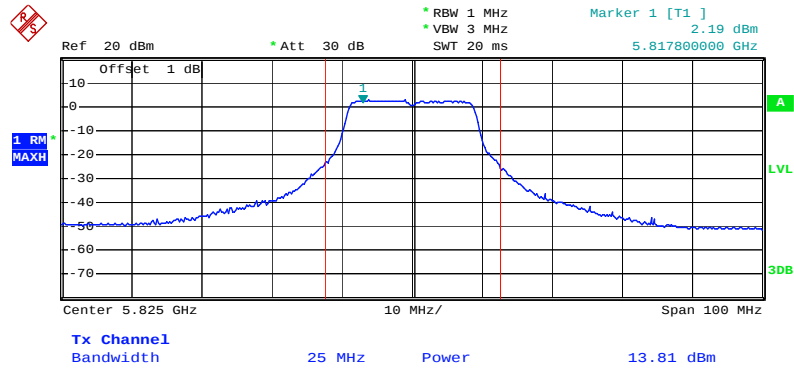
Date: 5.MAY.2010 20:01:47

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1 / 5785MHz



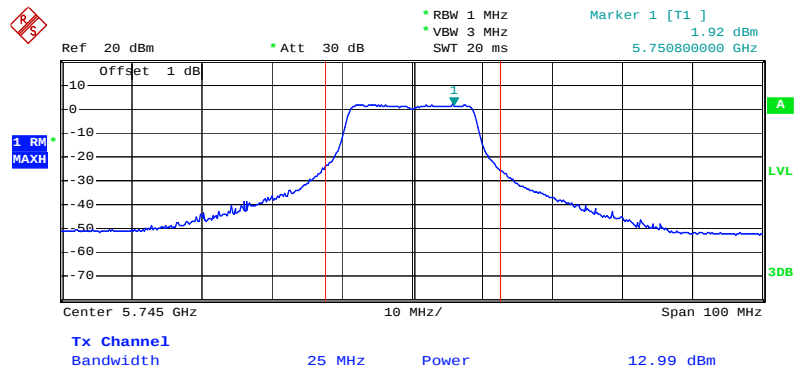
Date: 5.MAY.2010 20:00:12

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1 / 5825 MHz



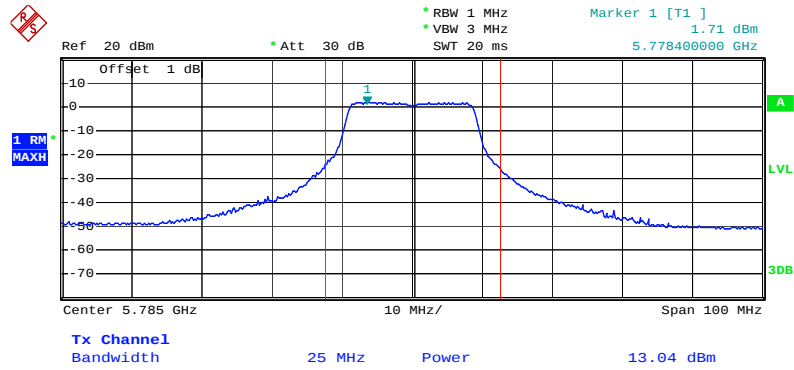
Date: 5.MAY.2010 19:58:59

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A5 / 5745 MHz



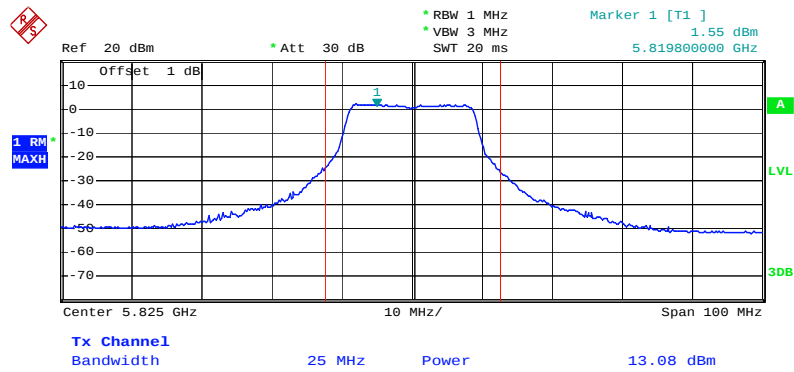
Date: 5.MAY.2010 20:01:26

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A5 / 5785MHz



Date: 5.MAY.2010 20:00:35

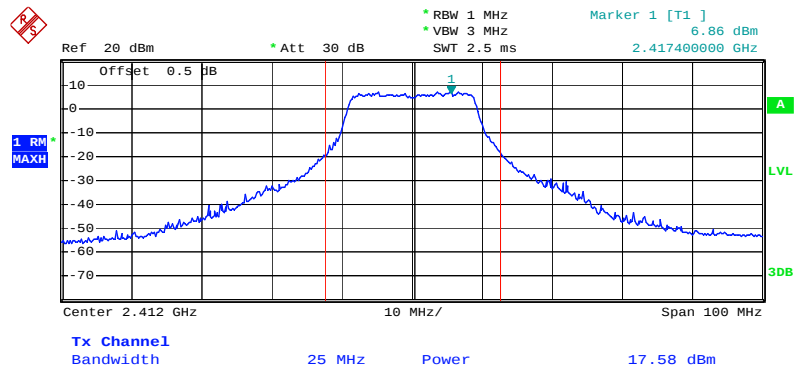
Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A5 / 5825 MHz



Date: 5.MAY.2010 19:58:33

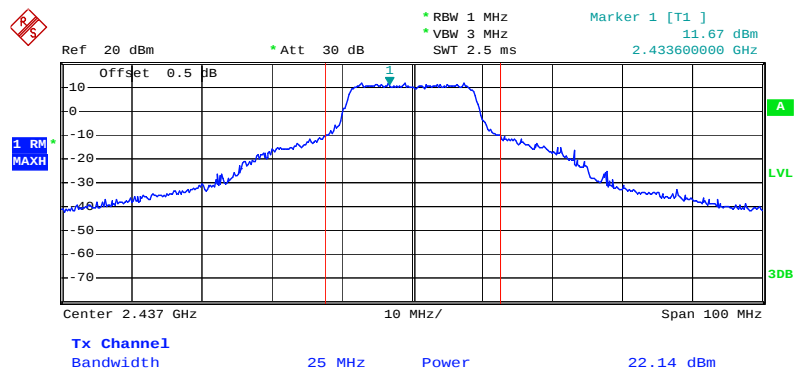
< For Ant. 6 >

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B2 / 2412 MHz



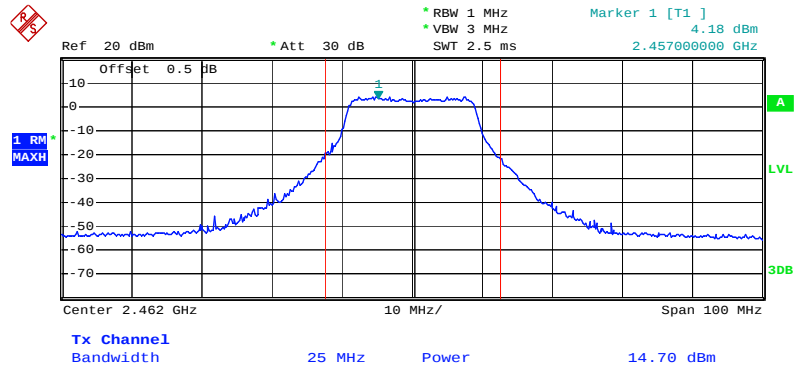
Date: 5.MAY.2010 10:02:30

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B2 / 2437 MHz



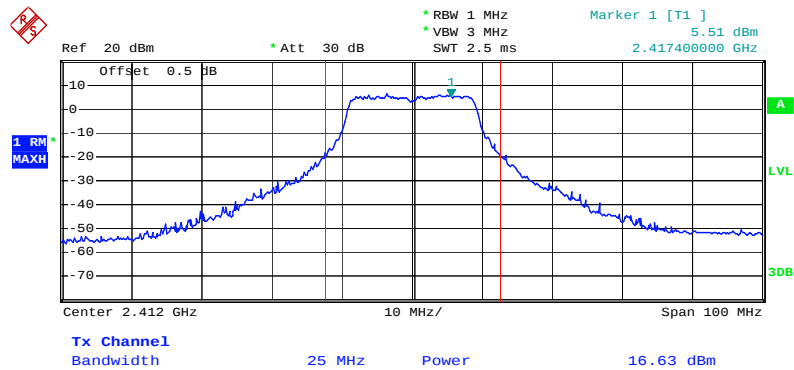
Date: 5.MAY.2010 10:00:29

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B2 / 2462 MHz



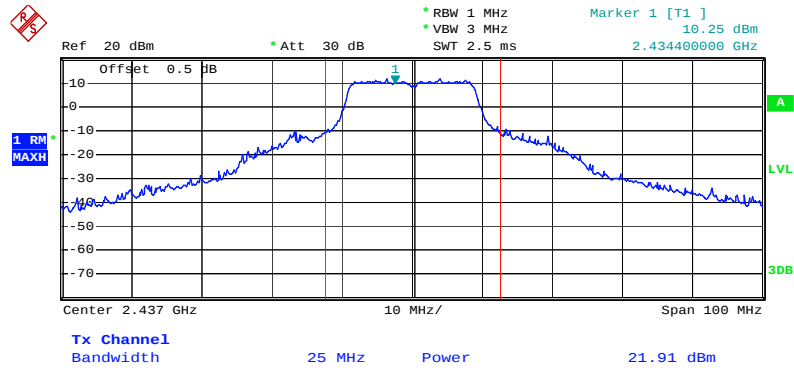
Date: 5.MAY.2010 09:57:45

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B6 / 2412 MHz



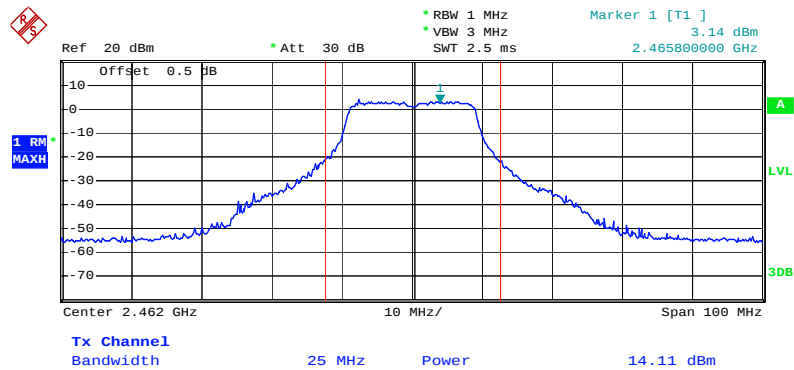
Date: 5.MAY.2010 10:03:09

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B6 / 2437 MHz



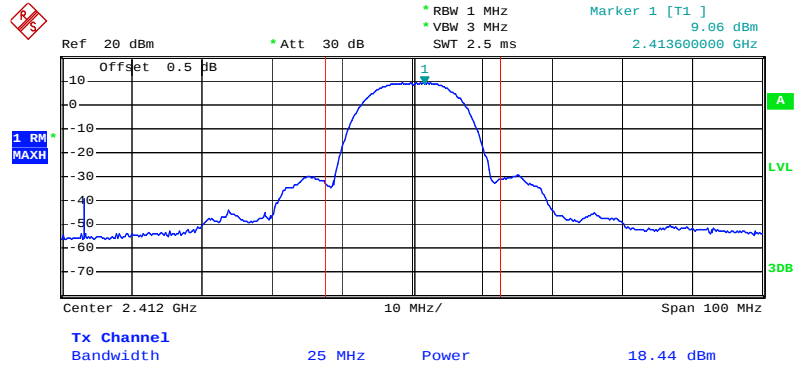
Date: 5.MAY.2010 09:59:48

Channel Output Power Plot on Configuration IEEE 802.11n MCS8 20MHz B6 / 2462 MHz



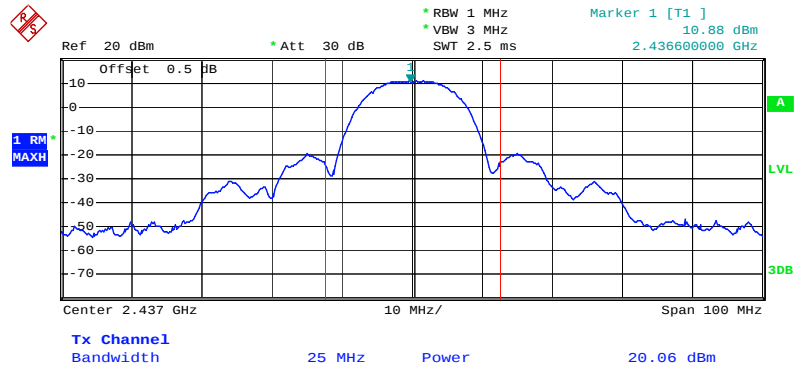
Date: 5.MAY.2010 09:58:29

Conducted Output Power Plot on Configuration IEEE 802.11b B2 / 2412 MHz



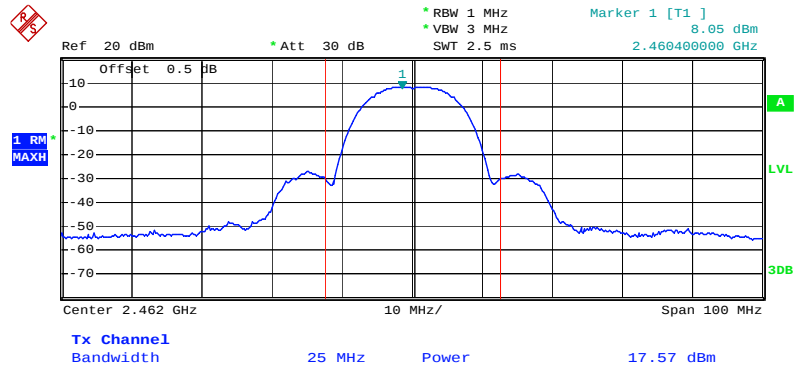
Date: 5.MAY.2010 09:51:35

Conducted Output Power Plot on Configuration IEEE 802.11b B2 / 2437 MHz



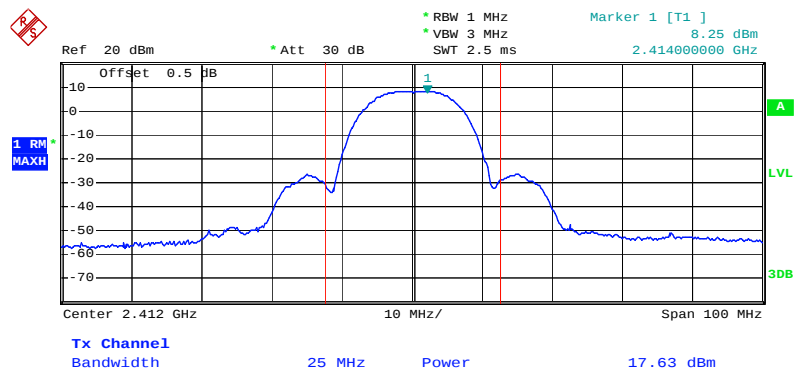
Date: 3.MAY.2010 12:00:37

Conducted Output Power Plot on Configuration IEEE 802.11b B2 / 2462 MHz



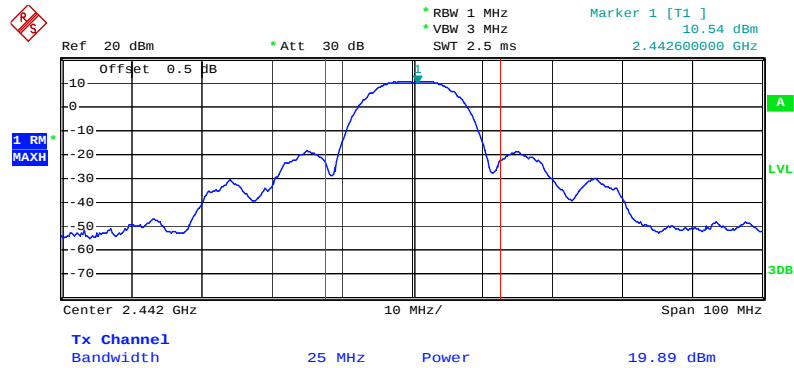
Date: 4.MAY.2010 09:29:55

Conducted Output Power Plot on Configuration IEEE 802.11b B6 / 2412 MHz



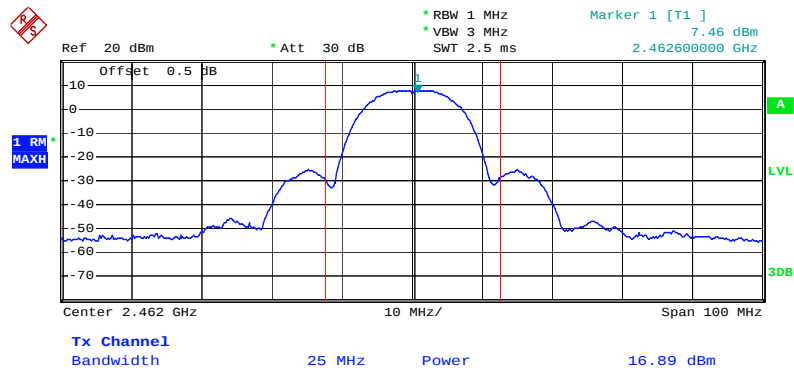
Date: 5.MAY.2010 09:52:14

Conducted Output Power Plot on Configuration IEEE 802.11b B6 / 2437 MHz



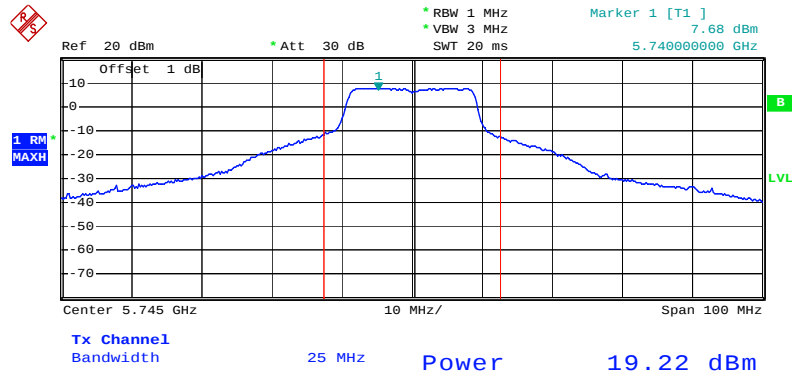
Date: 3.MAY.2010 11:54:26

Conducted Output Power Plot on Configuration IEEE 802.11b B6 / 2462 MHz



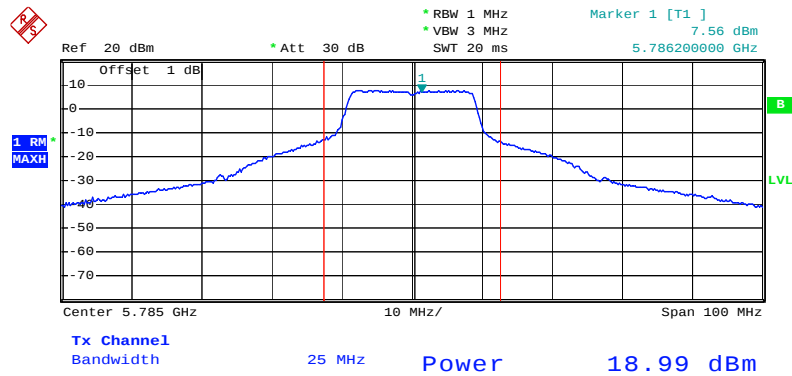
Date: 4.MAY.2010 09:30:18

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1 / 5745 MHz



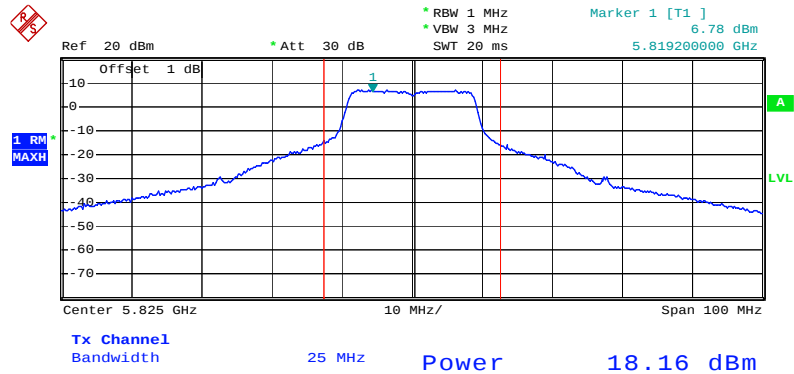
Date: 30.APR.2010 19:54:56

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1 / 5785MHz



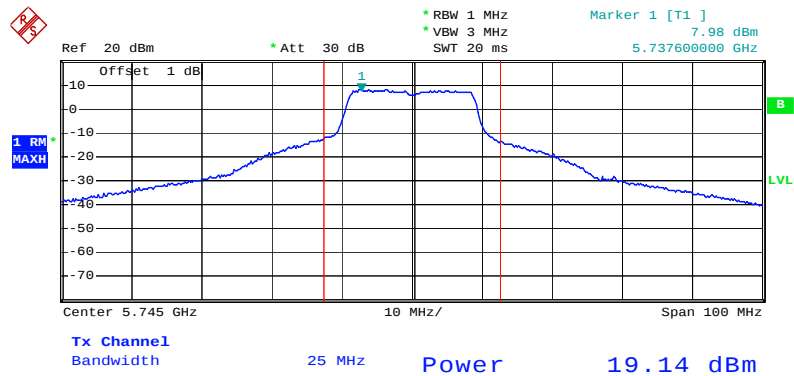
Date: 30.APR.2010 19:55:51

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1 / 5825 MHz



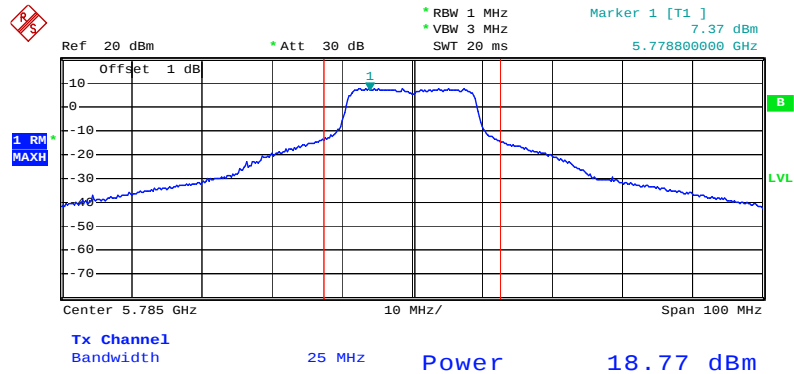
Date: 30.APR.2010 19:57:03

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A5 / 5745 MHz



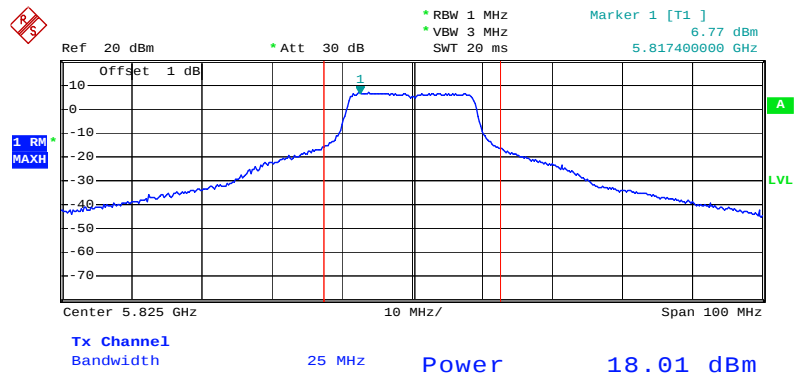
Date: 30.APR.2010 19:55:09

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A5 / 5785MHz



Date: 30.APR.2010 19:55:28

Channel Output Power Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A5 / 5825 MHz



Date: 30.APR.2010 19:57:42

4.3. Power Spectral Density Measurement

4.3.1. 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.

4.3.2. Measuring Instruments and Setting

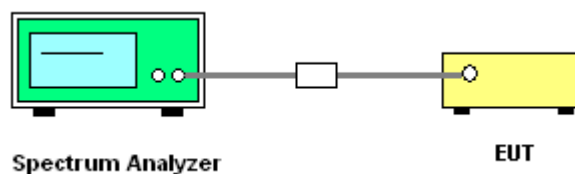
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

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

4.3.3. 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.

4.3.4. 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 Power Spectral Density

< For Ant. 1 >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Ant. 1

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-3.75	8.00	Complies
6	2437 MHz	0.08	8.00	Complies
11	2462 MHz	-5.06	8.00	Complies

Configuration IEEE 802.11n MCS8 40MHz B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
3	2422 MHz	-4.93	8.00	Complies
6	2437 MHz	-2.75	8.00	Complies
9	2452 MHz	-4.10	8.00	Complies

For 5GHz Band

Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-1.15	8.00	Complies
157	5785 MHz	-2.62	8.00	Complies
165	5825 MHz	-2.81	8.00	Complies

Configuration 11a IEEE 802.11n MCS8 40MHz A1+A5

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
151	5755 MHz	-4.50	8.00	Complies
159	5795 MHz	-4.93	8.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/b/g / Ant. 1

Configuration IEEE 802.11b B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-0.29	8.00	Complies
6	2437 MHz	3.88	8.00	Complies
11	2462 MHz	-3.12	8.00	Complies

Configuration IEEE 802.11g B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-2.79	8.00	Complies
6	2437 MHz	0.11	8.00	Complies
11	2462 MHz	-5.58	8.00	Complies

Configuration IEEE 802.11a A1+A5

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	0.10	8.00	Complies
157	5785 MHz	-0.96	8.00	Complies
165	5825 MHz	-1.37	8.00	Complies

Note: All the test values were listed in the report.

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

< For Ant. 2 >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Ant. 2

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-1.89	8.00	Complies
6	2437 MHz	3.23	8.00	Complies
11	2462 MHz	-3.43	8.00	Complies

Configuration IEEE 802.11n MCS8 40MHz B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
3	2422 MHz	-4.11	8.00	Complies
6	2437 MHz	-0.91	8.00	Complies
9	2452 MHz	-3.13	8.00	Complies

For 5GHz Band

Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-3.79	8.00	Complies
157	5785 MHz	-1.16	8.00	Complies
165	5825 MHz	-2.83	8.00	Complies

Configuration 11a IEEE 802.11n MCS8 40MHz A1+A5

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
151	5755 MHz	-6.68	8.00	Complies
159	5795 MHz	-7.10	8.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/b/g / Ant. 2

Configuration IEEE 802.11b B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	1.05	8.00	Complies
6	2437 MHz	4.46	8.00	Complies
11	2462 MHz	-1.00	8.00	Complies

Configuration IEEE 802.11g B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-3.02	8.00	Complies
6	2437 MHz	4.03	8.00	Complies
11	2462 MHz	-3.43	8.00	Complies

Configuration IEEE 802.11a A1+A5

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-0.37	8.00	Complies
157	5785 MHz	-2.16	8.00	Complies
165	5825 MHz	-1.52	8.00	Complies

Note: All the test values were listed in the report.

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

< For Ant. 3 >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Ant. 3

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-5.02	8.00	Complies
6	2437 MHz	2.03	8.00	Complies
11	2462 MHz	-10.93	8.00	Complies

Configuration IEEE 802.11n MCS8 40MHz B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
3	2422 MHz	-5.80	8.00	Complies
6	2437 MHz	-3.84	8.00	Complies
9	2452 MHz	-8.57	8.00	Complies

For 5GHz Band

Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-3.79	8.00	Complies
157	5785 MHz	-1.16	8.00	Complies
165	5825 MHz	-2.83	8.00	Complies

Configuration 11a IEEE 802.11n MCS8 40MHz A1+A5

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
151	5755 MHz	-6.68	8.00	Complies
159	5795 MHz	-7.10	8.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/b/g / Ant. 3

Configuration IEEE 802.11b B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-1.09	8.00	Complies
6	2437 MHz	0.84	8.00	Complies
11	2462 MHz	-1.79	8.00	Complies

Configuration IEEE 802.11g B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-5.96	8.00	Complies
6	2437 MHz	-1.96	8.00	Complies
11	2462 MHz	-9.25	8.00	Complies

Configuration IEEE 802.11a A1+A5

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-0.37	8.00	Complies
157	5785 MHz	-2.16	8.00	Complies
165	5825 MHz	-1.52	8.00	Complies

Note: All the test values were listed in the report.

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

< For Ant. 4 >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Ant. 4

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-5.02	8.00	Complies
6	2437 MHz	2.03	8.00	Complies
11	2462 MHz	-10.93	8.00	Complies

Configuration IEEE 802.11n MCS8 40MHz B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
3	2422 MHz	-9.39	8.00	Complies
6	2437 MHz	-3.93	8.00	Complies
9	2452 MHz	-9.70	8.00	Complies

For 5GHz Band

Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-3.79	8.00	Complies
157	5785 MHz	-1.16	8.00	Complies
165	5825 MHz	-2.83	8.00	Complies

Configuration 11a IEEE 802.11n MCS8 40MHz A1+A5

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
151	5755 MHz	-6.68	8.00	Complies
159	5795 MHz	-7.10	8.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/b/g / Ant. 4

Configuration IEEE 802.11b B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-1.09	8.00	Complies
6	2437 MHz	0.84	8.00	Complies
11	2462 MHz	-1.16	8.00	Complies

Configuration IEEE 802.11g B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-4.60	8.00	Complies
6	2437 MHz	-1.96	8.00	Complies
11	2462 MHz	-9.25	8.00	Complies

Configuration IEEE 802.11a A1+A5

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-0.37	8.00	Complies
157	5785 MHz	-2.16	8.00	Complies
165	5825 MHz	-1.52	8.00	Complies

Note: All the test values were listed in the report.

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

< For Ant. 5 >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Ant. 5

For 5GHz Band

Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-8.93	8.00	Complies
157	5785 MHz	-8.64	8.00	Complies
165	5825 MHz	-7.79	8.00	Complies

Configuration 11a IEEE 802.11n MCS8 40MHz A1+A5

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
151	5755 MHz	-11.61	8.00	Complies
159	5795 MHz	-9.81	8.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a / Ant. 5

Configuration IEEE 802.11a A1+A5

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-6.38	8.00	Complies
157	5785 MHz	-6.93	8.00	Complies
165	5825 MHz	-6.75	8.00	Complies

Note: All the test values were listed in the report.

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

< For Ant. 6 >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Ant. 6

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-4.91	8.00	Complies
6	2437 MHz	1.99	8.00	Complies
11	2462 MHz	-5.22	8.00	Complies

Configuration IEEE 802.11n MCS8 40MHz B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
3	2422 MHz	-4.13	8.00	Complies
6	2437 MHz	-3.58	8.00	Complies
9	2452 MHz	-8.66	8.00	Complies

For 5GHz Band

Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-3.79	8.00	Complies
157	5785 MHz	-1.16	8.00	Complies
165	5825 MHz	-2.83	8.00	Complies

Configuration 11a IEEE 802.11n MCS8 40MHz A1+A5

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
151	5755 MHz	-6.68	8.00	Complies
159	5795 MHz	-7.10	8.00	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/b/g / Ant. 6

Configuration IEEE 802.11b B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	0.11	8.00	Complies
6	2437 MHz	0.84	8.00	Complies
11	2462 MHz	-1.16	8.00	Complies

Configuration IEEE 802.11g B2+B6

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-3.70	8.00	Complies
6	2437 MHz	1.43	8.00	Complies
11	2462 MHz	-1.38	8.00	Complies

Configuration IEEE 802.11a A1+A5

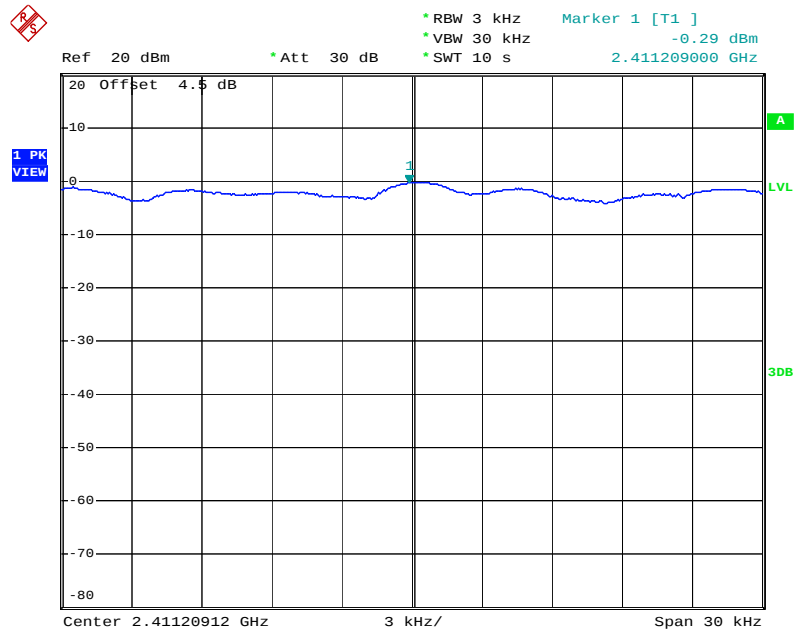
Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-0.37	8.00	Complies
157	5785 MHz	-2.16	8.00	Complies
165	5825 MHz	-1.52	8.00	Complies

Note: All the test values were listed in the report.

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

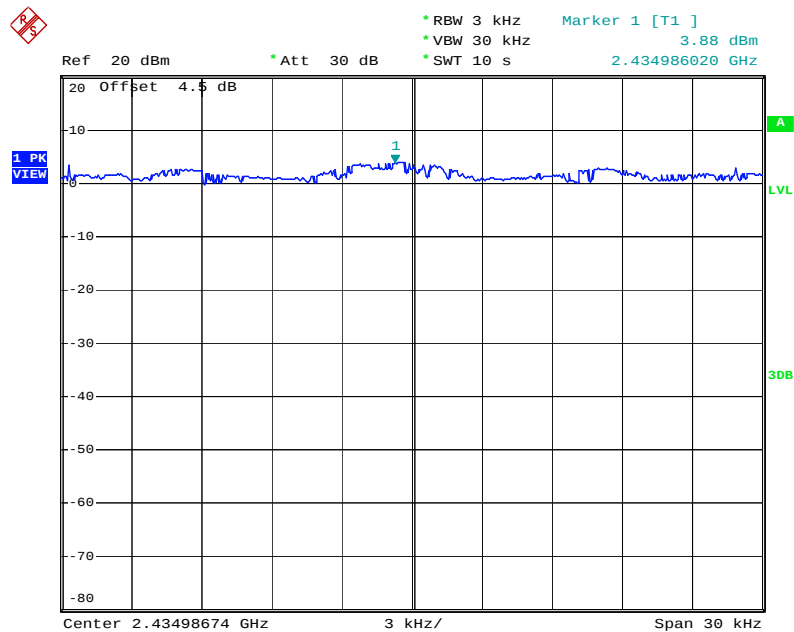
< For Ant. 1 >

Power Density Plot on Configuration IEEE 802.11b B2+B6 / 2412 MHz



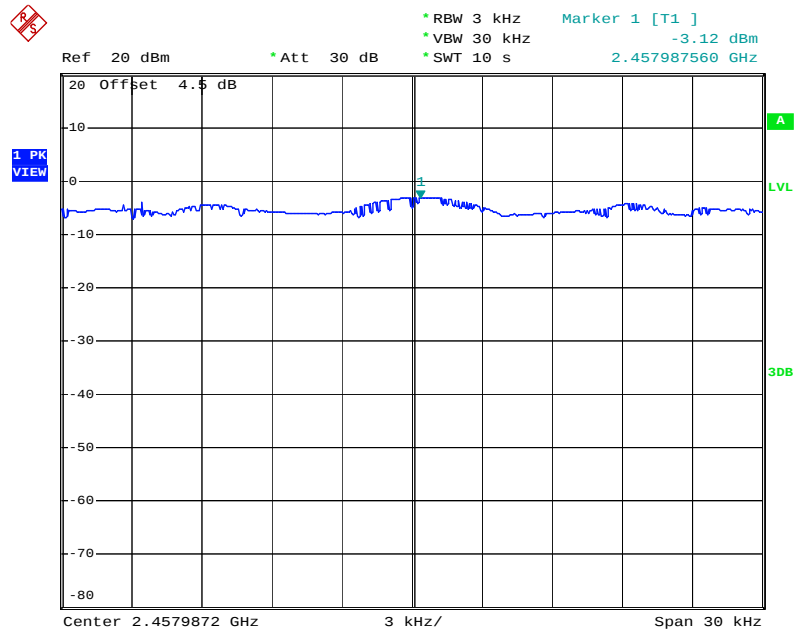
Date: 26.APR.2010 17:14:11

Power Density Plot on Configuration IEEE 802.11b B2+B6 / 2437 MHz



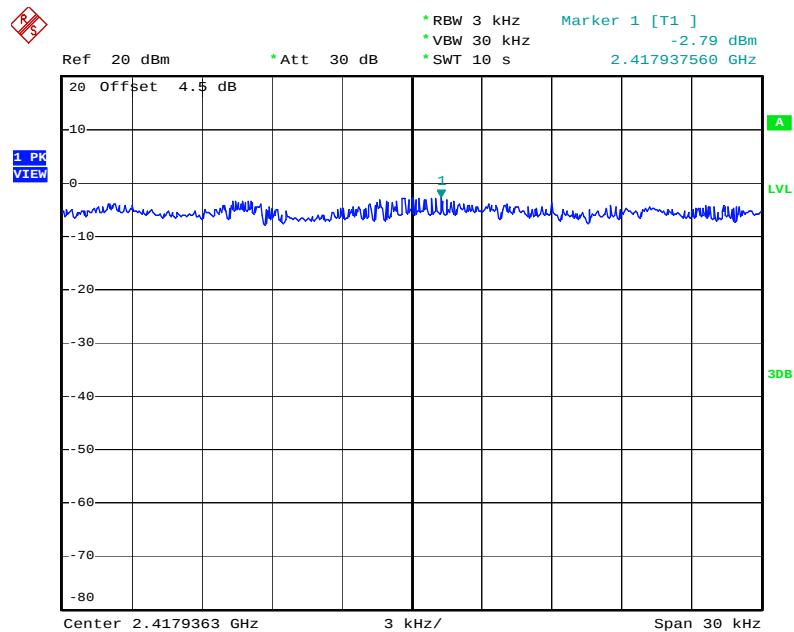
Date: 26.APR.2010 17:19:52

Power Density Plot on Configuration IEEE 802.11b B2+B6 / 2462 MHz



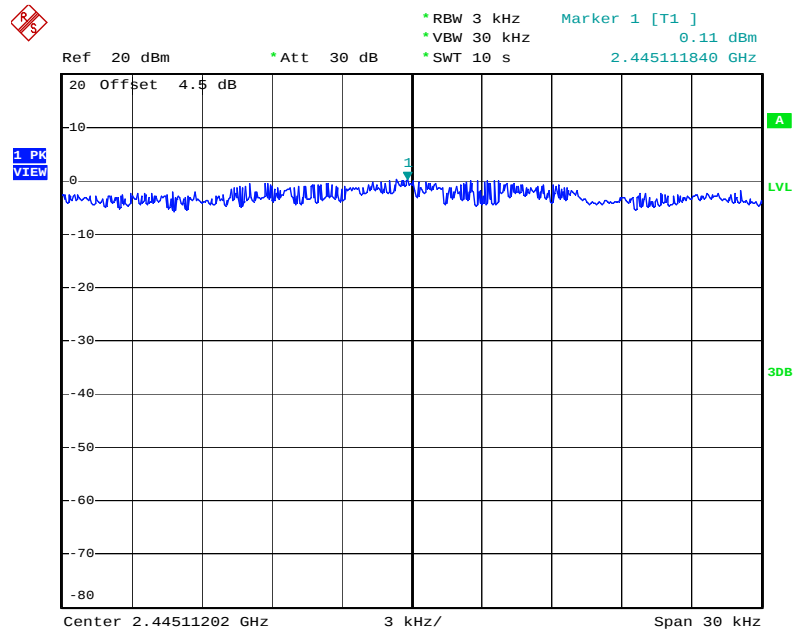
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Power Density Plot on Configuration IEEE 802.11g B2+B6 / 2412 MHz



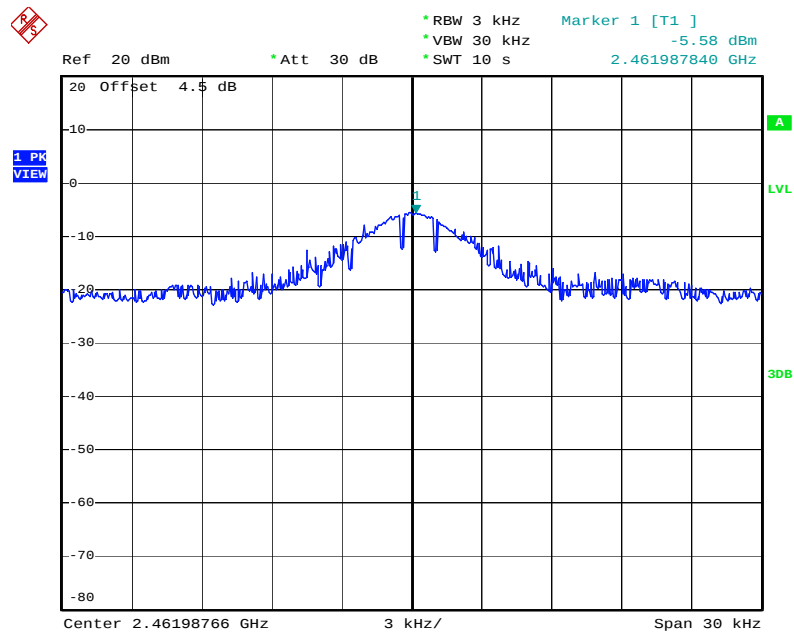
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Power Density Plot on Configuration IEEE 802.11g B2+B6 / 2437 MHz



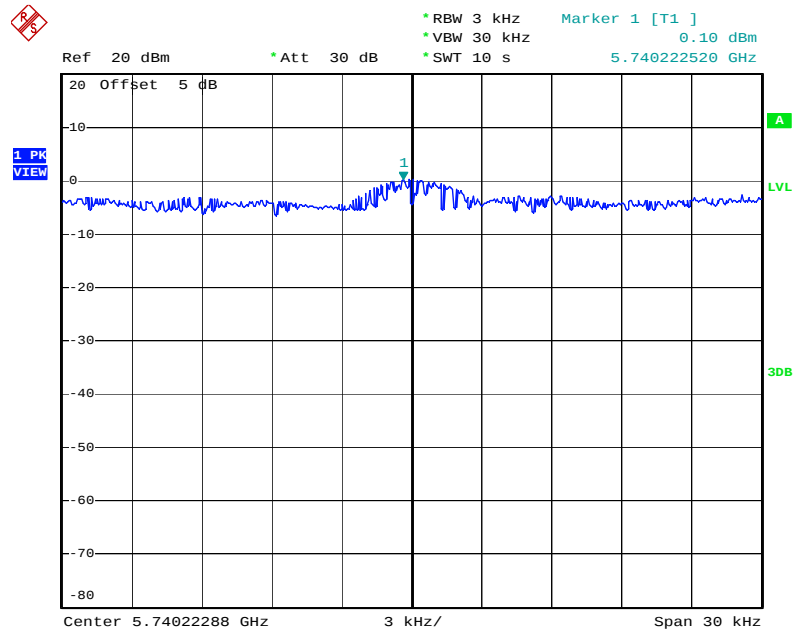
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Power Density Plot on Configuration IEEE 802.11g B2+B6 / 2462 MHz



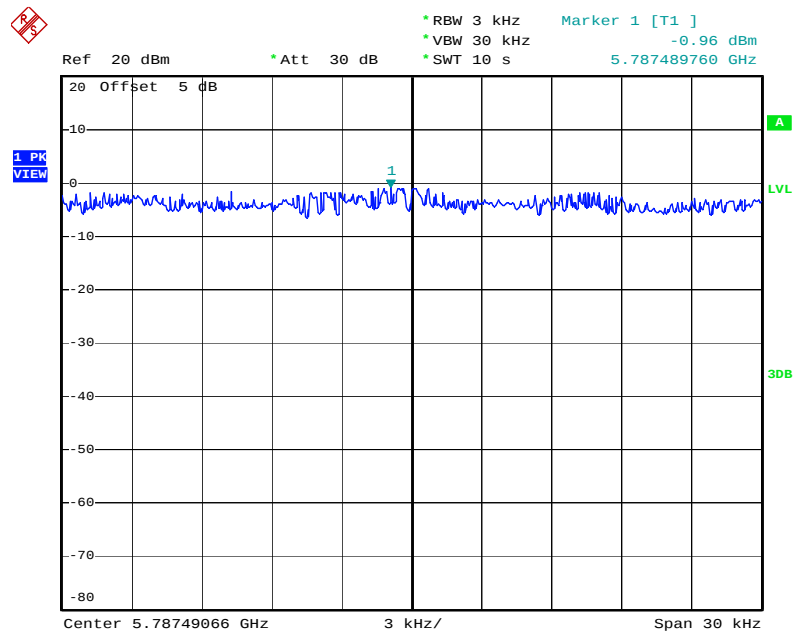
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Power Density Plot on Configuration IEEE 802.11a A1+A5 / 5745 MHz



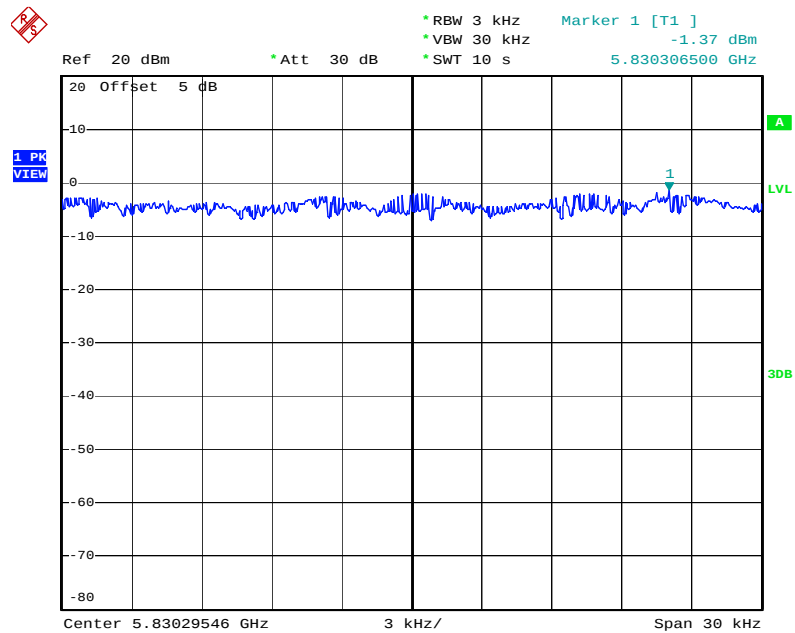
Date: 26.APR.2010 21:51:30

Power Density Plot on Configuration IEEE 802.11a A1+A5 / 5785 MHz



Date: 26.APR.2010 21:53:42

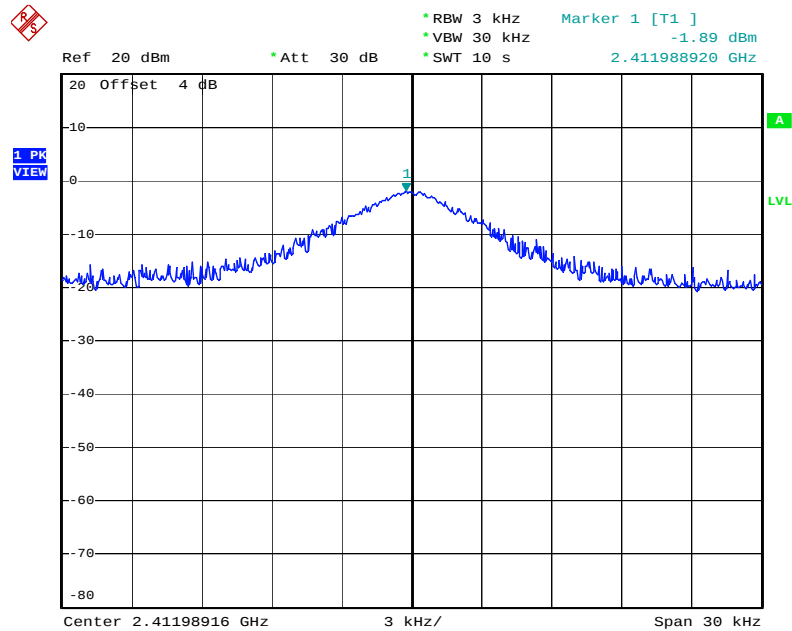
Power Density Plot on Configuration IEEE 802.11a A1+A5 / 5825 MHz



Date: 26.APR.2010 21:55:58

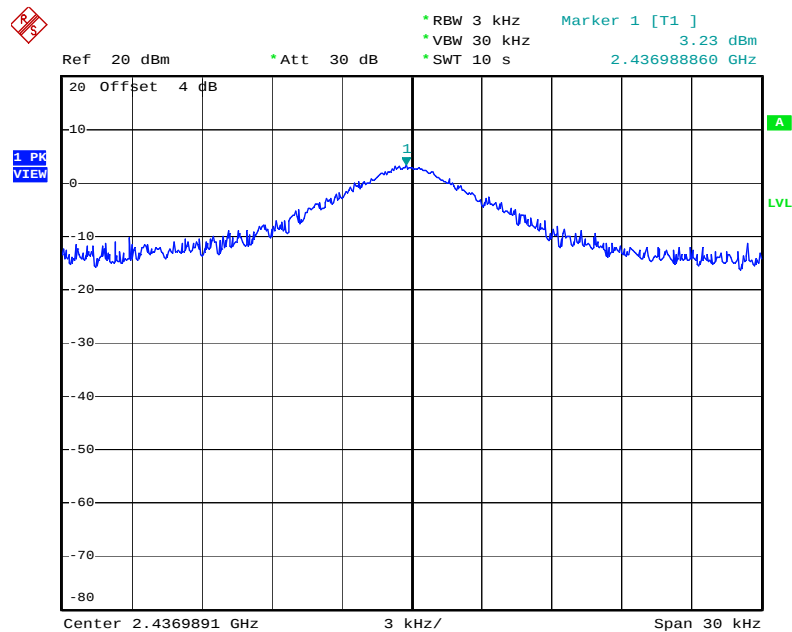
< For Ant. 2 >

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz B2+B6 / 2412 MHz



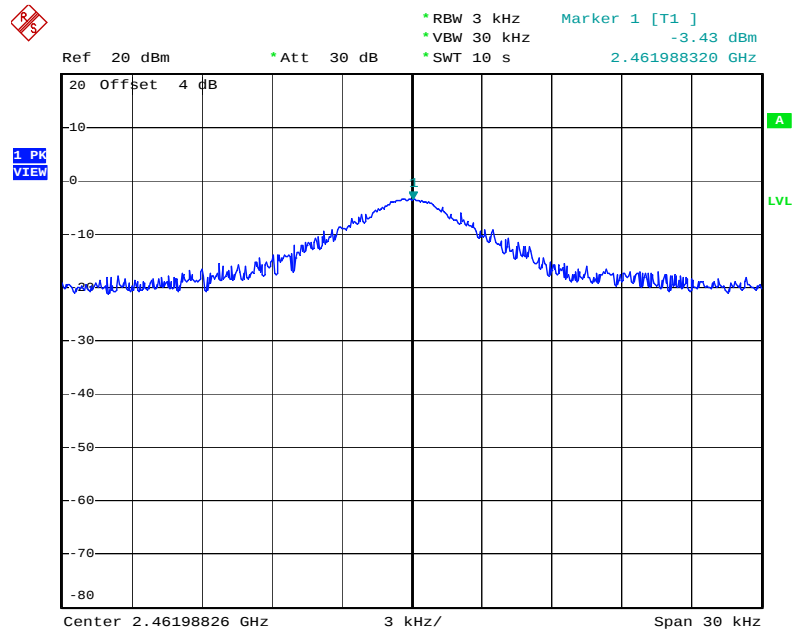
Date: 1.MAY.2010 19:06:24

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz B2+B6 / 2437 MHz



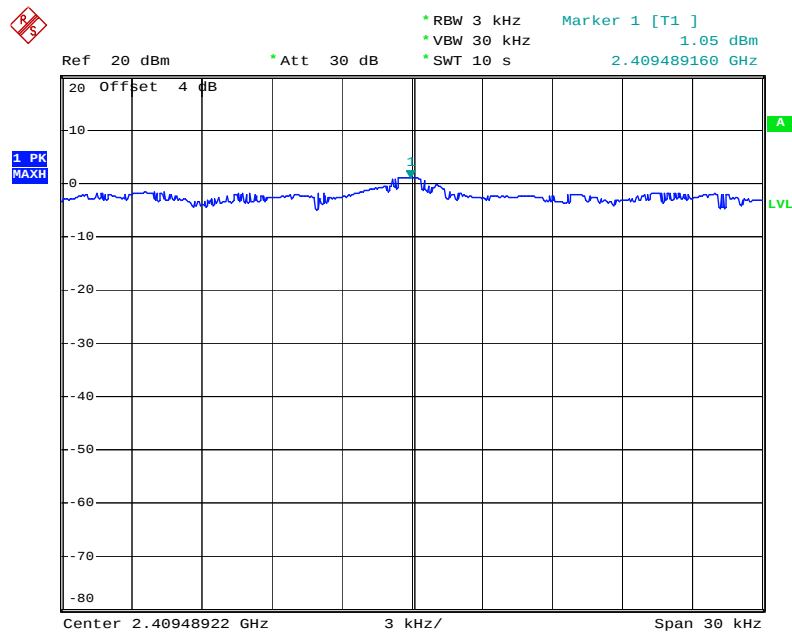
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Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz B2+B6 / 2462 MHz



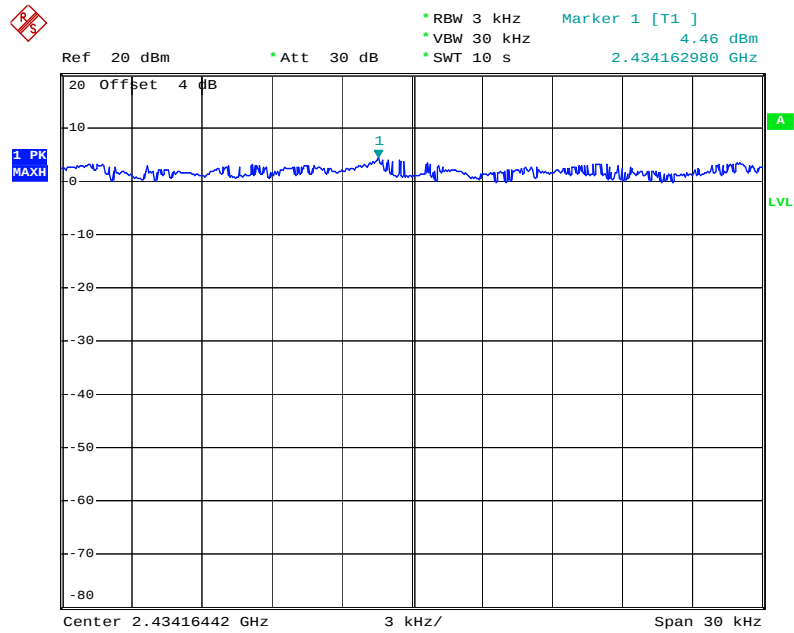
Date: 1.MAY.2010 18:59:53

Power Density Plot on Configuration IEEE 802.11b B2+B6 / 2412 MHz



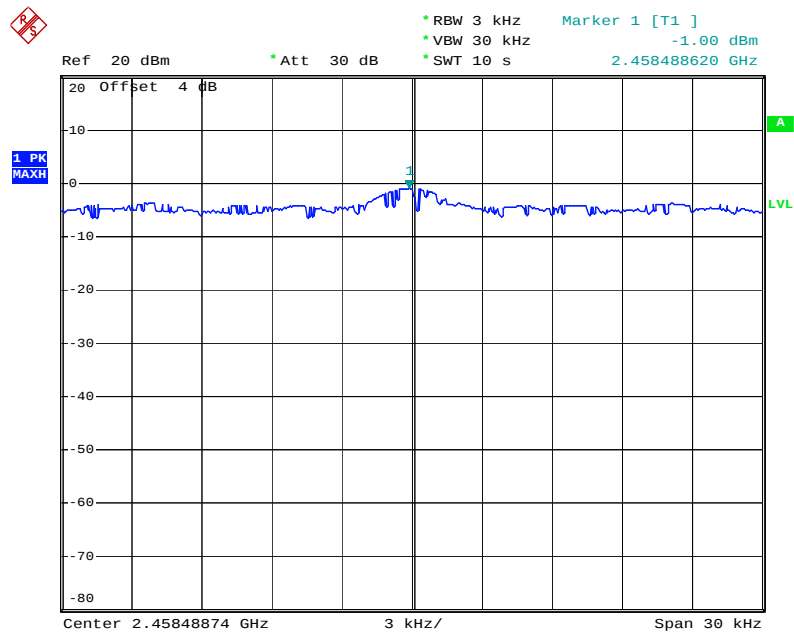
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Power Density Plot on Configuration IEEE 802.11b B2+B6 / 2437 MHz



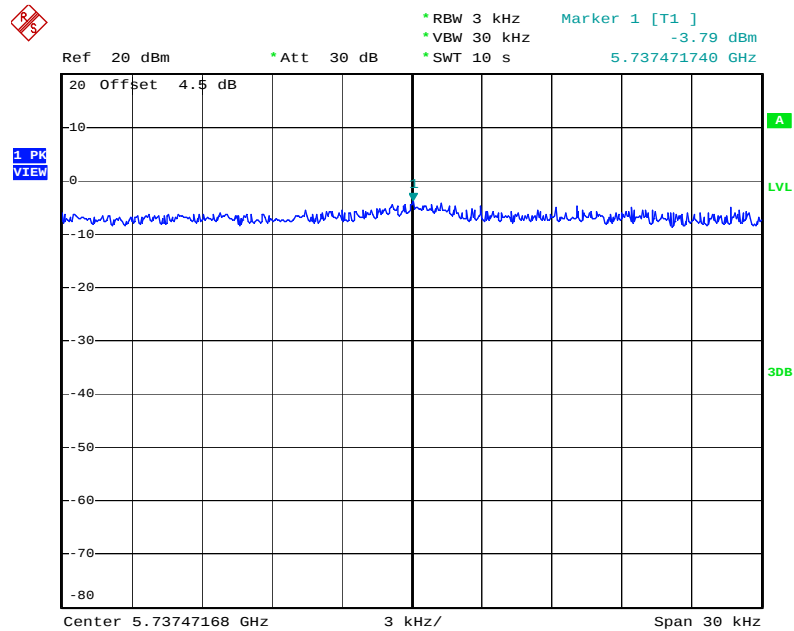
Date: 1.MAY.2010 19:25:46

Power Density Plot on Configuration IEEE 802.11b B2+B6 / 2462 MHz



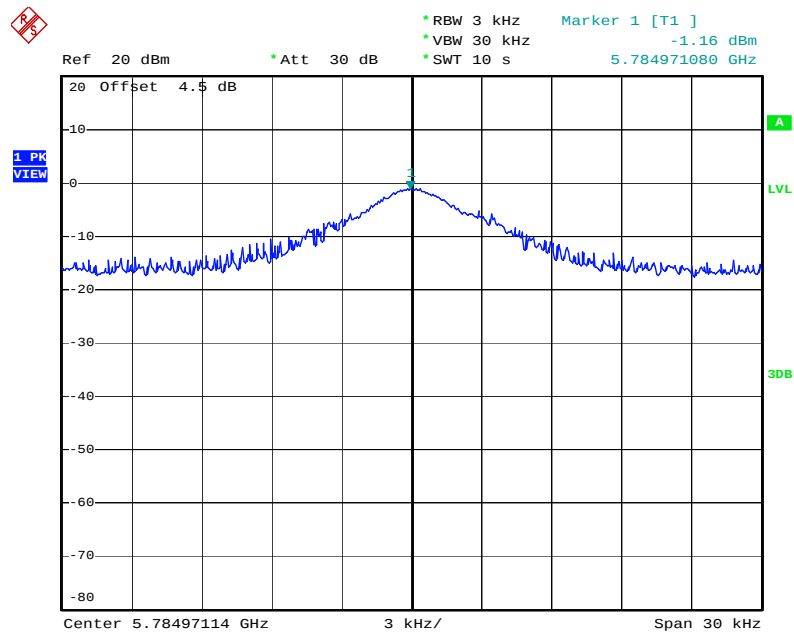
Date: 1.MAY.2010 20:17:07

Power Density Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5 / 5745 MHz



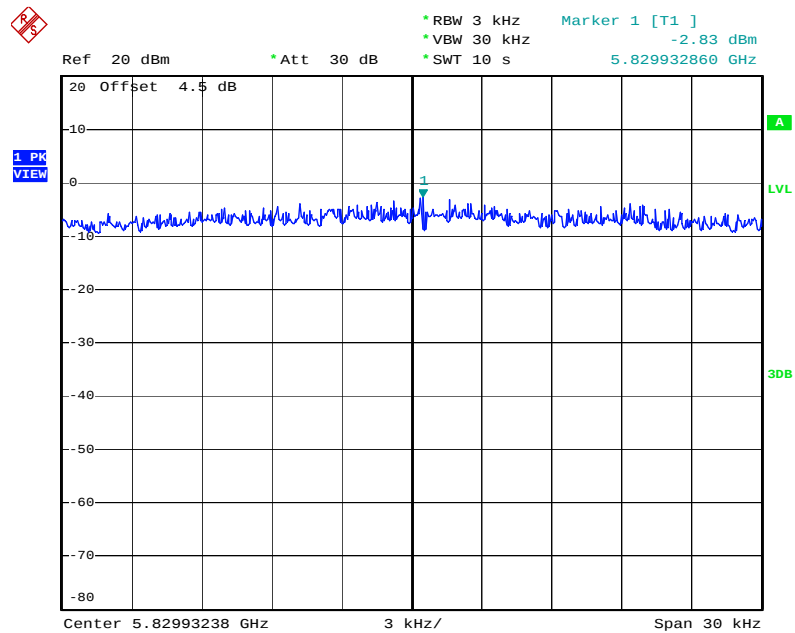
Date: 1.MAY.2010 12:33:39

Power Density Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5 / 5785 MHz



Date: 1.MAY.2010 12:31:20

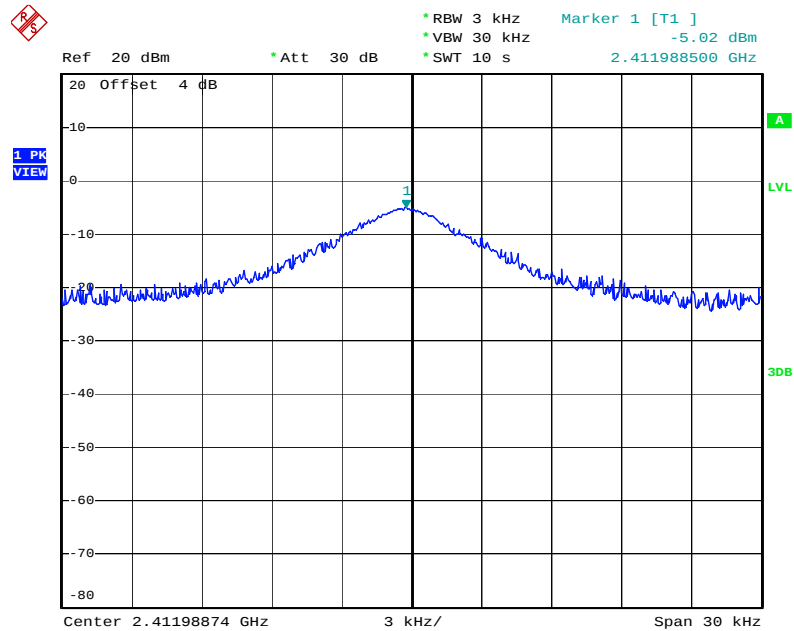
Power Density Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5 / 5825 MHz



Date: 1.MAY.2010 12:29:15

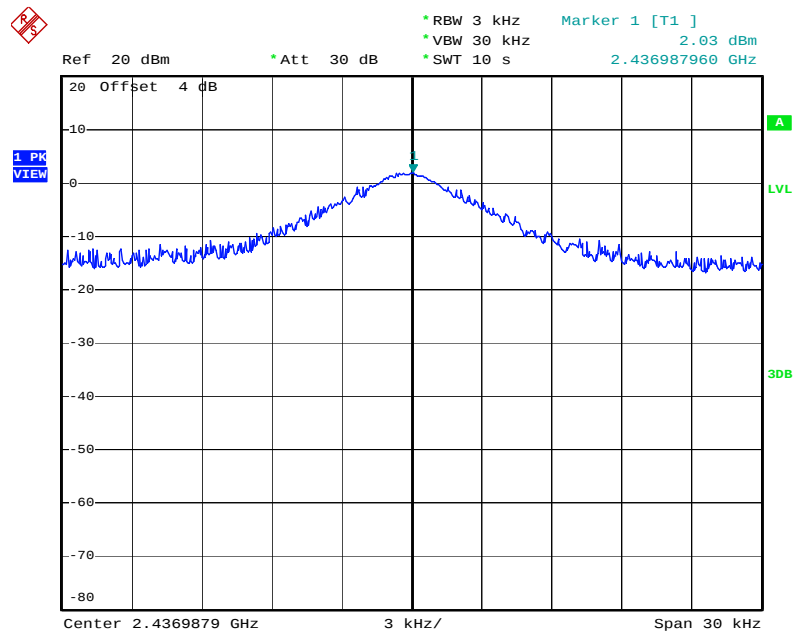
< For Ant. 3 >

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz B2+B6 / 2412 MHz



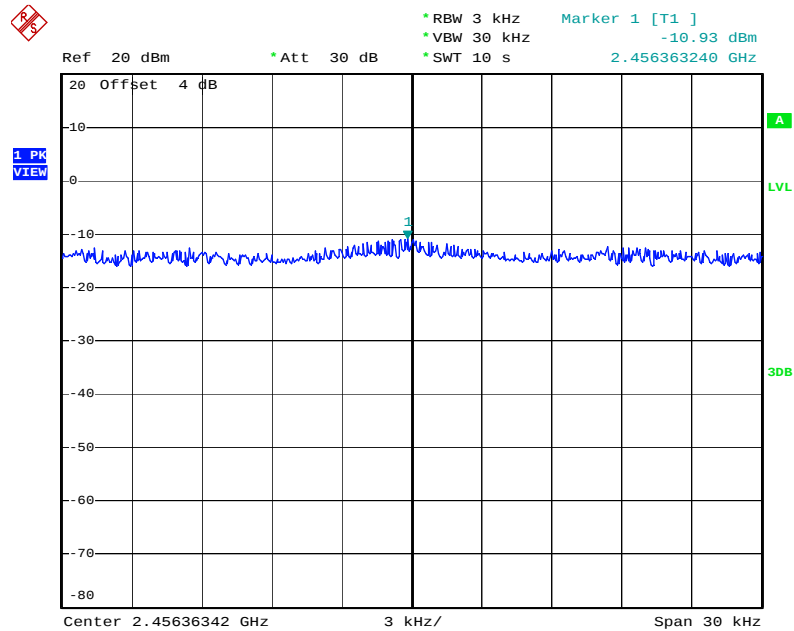
Date: 3.MAY.2010 19:23:24

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz B2+B6 / 2437 MHz



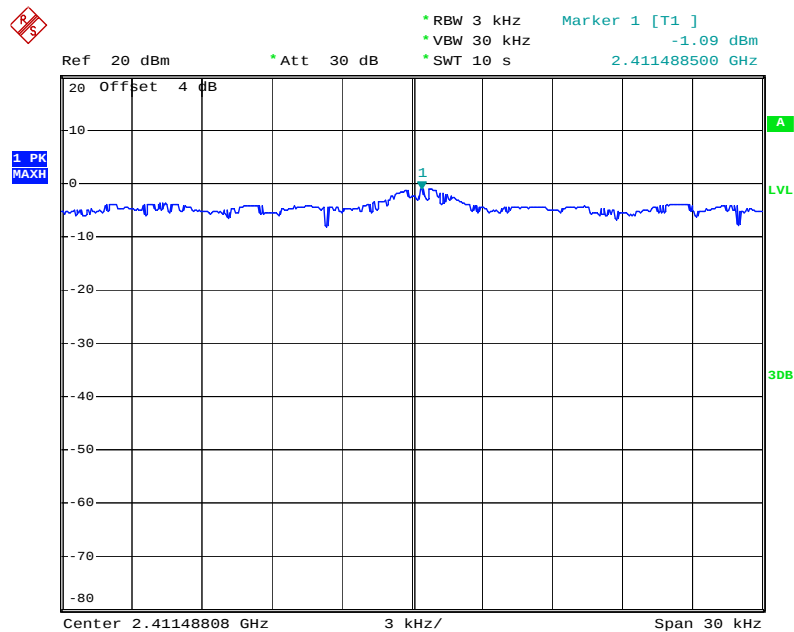
Date: 3.MAY.2010 19:18:21

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz B2+B6 / 2462 MHz



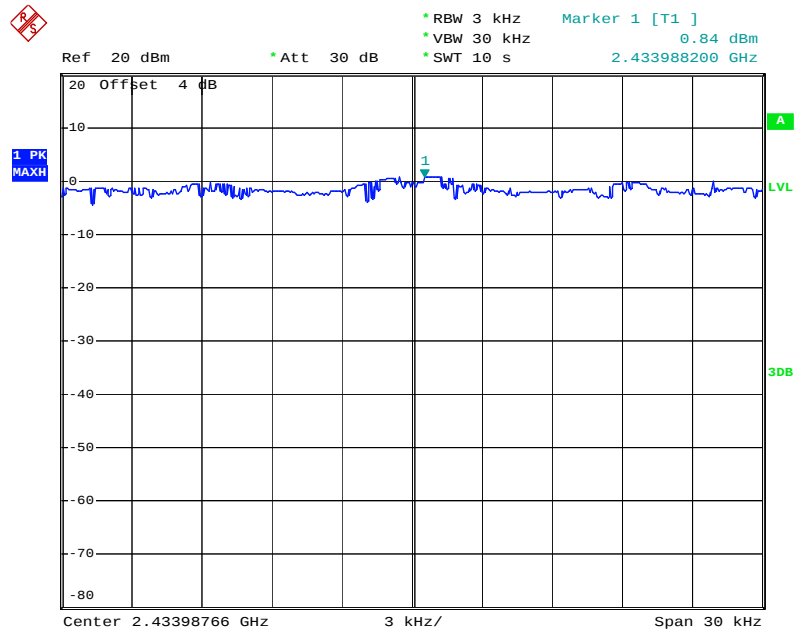
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Power Density Plot on Configuration IEEE 802.11b B2+B6 / 2412 MHz



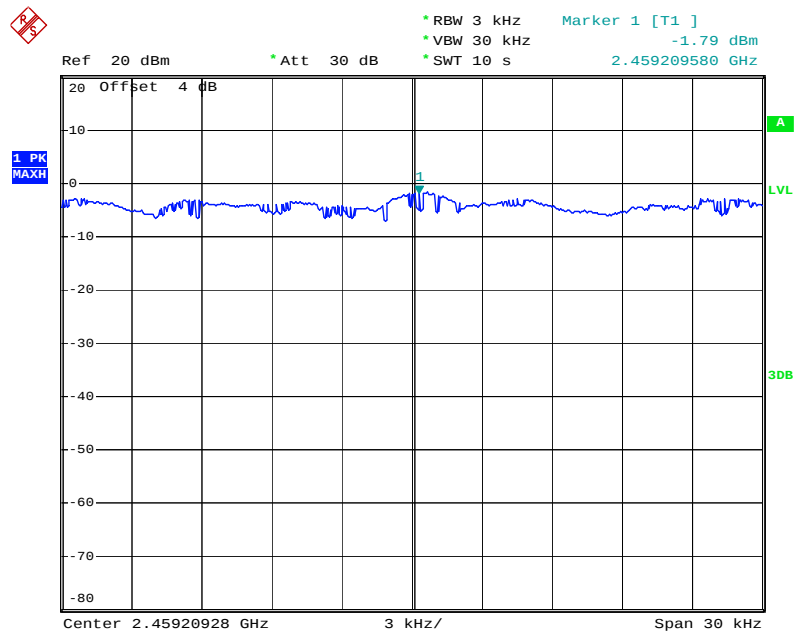
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Power Density Plot on Configuration IEEE 802.11b B2+B6 / 2437 MHz



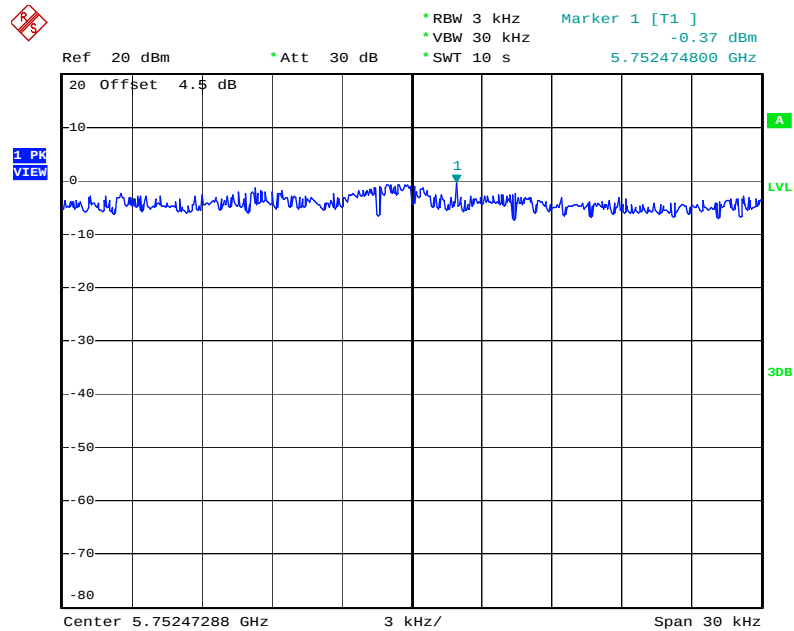
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Power Density Plot on Configuration IEEE 802.11b B2+B6 / 2462 MHz



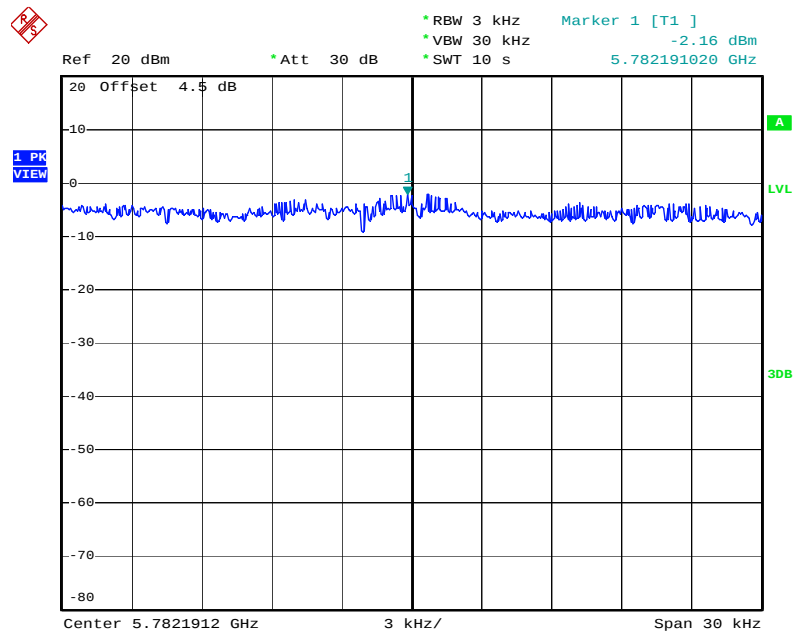
Date: 3.MAY.2010 18:27:12

Power Density Plot on Configuration IEEE 802.11a A1+A5 / 5745 MHz



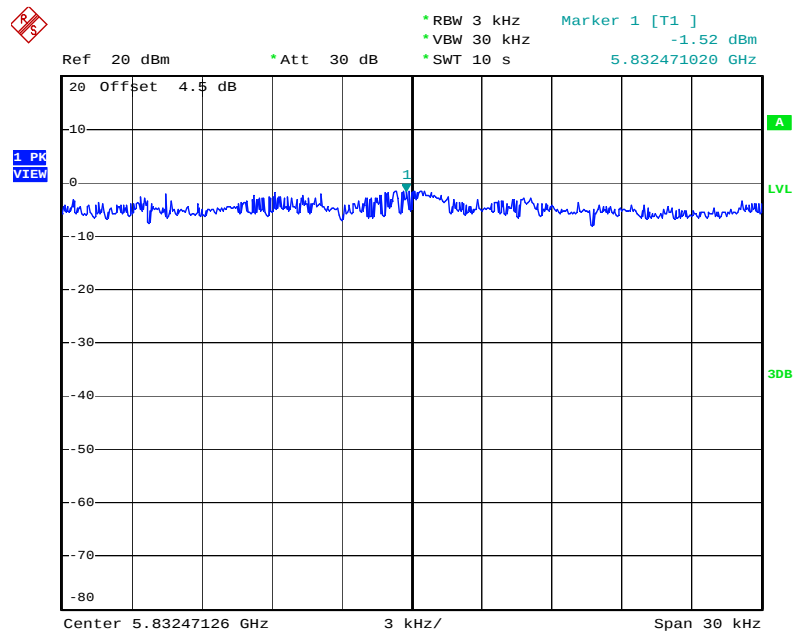
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Power Density Plot on Configuration IEEE 802.11a A1+A5 / 5785 MHz



Date: 1.MAY.2010 12:24:55

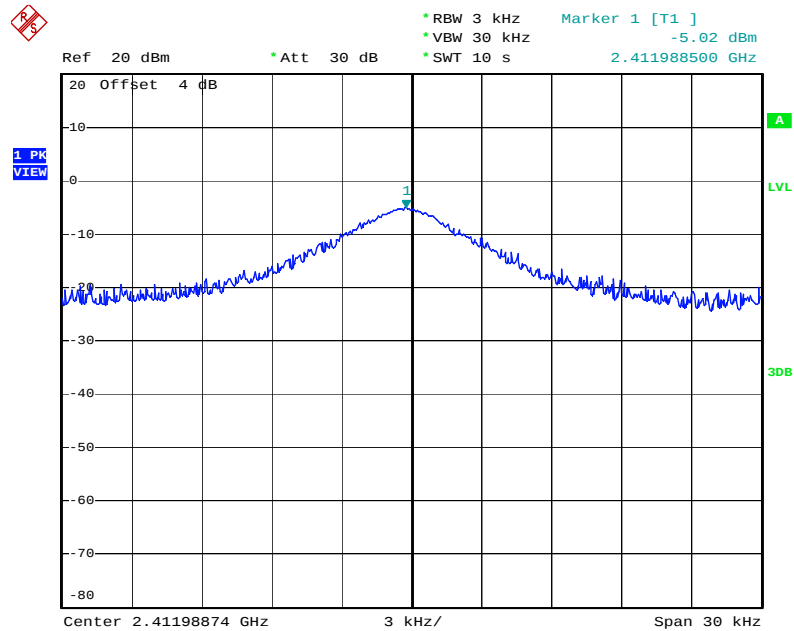
Power Density Plot on Configuration IEEE 802.11a A1+A5 / 5825 MHz



Date: 1.MAY.2010 12:27:04

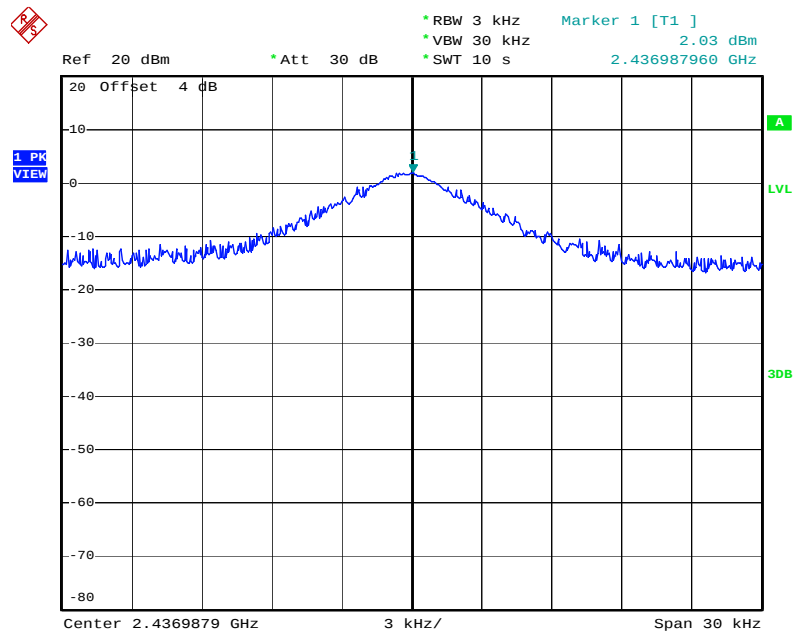
< For Ant. 4 >

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz B2+B6 / 2412 MHz



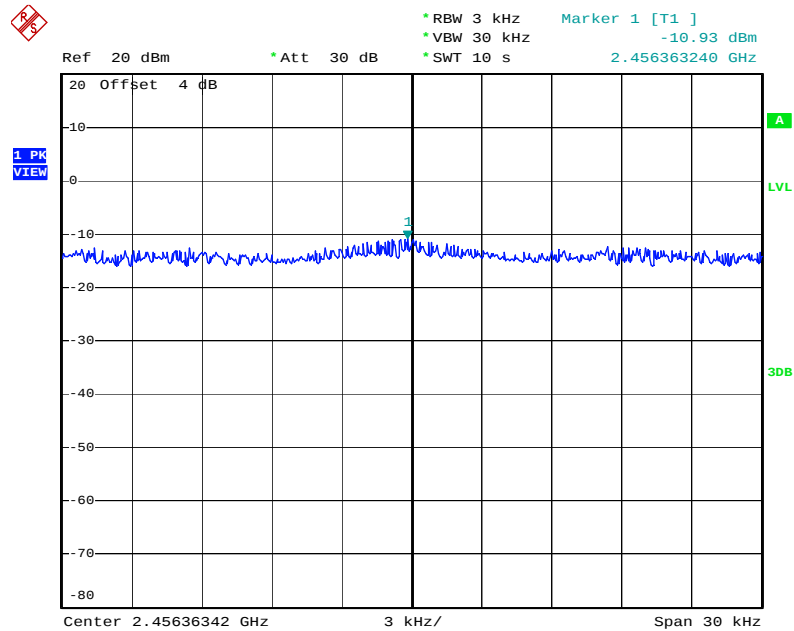
Date: 3.MAY.2010 19:23:24

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz B2+B6 / 2437 MHz



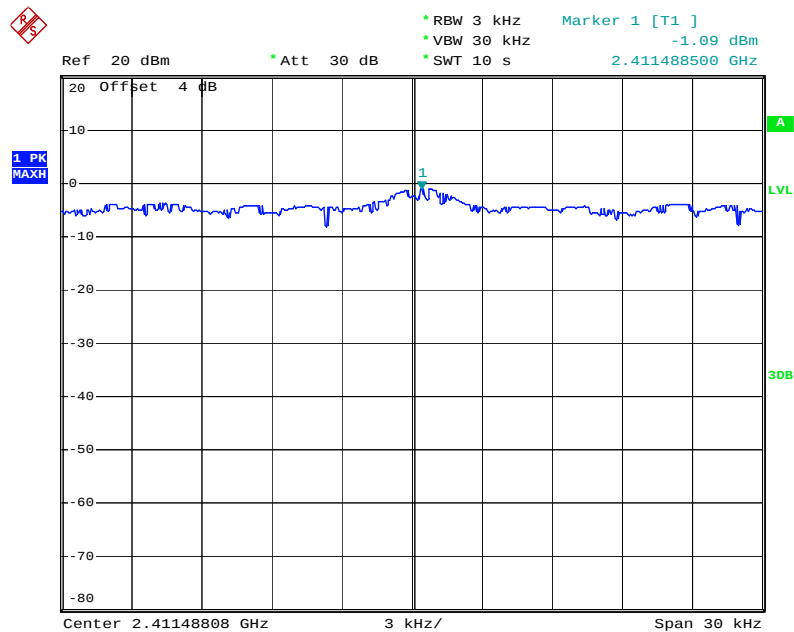
Date: 3.MAY.2010 19:18:21

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz B2+B6 / 2462 MHz



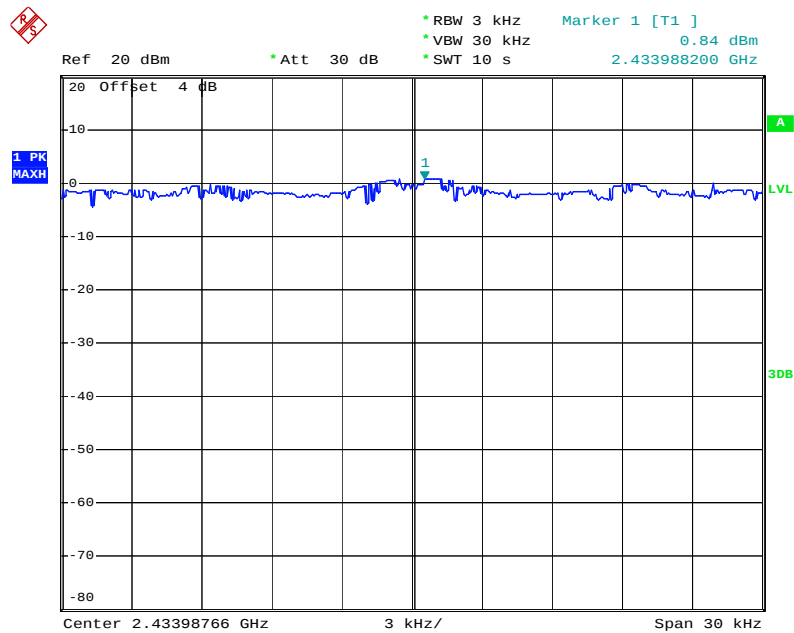
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Power Density Plot on Configuration IEEE 802.11b B2+B6 / 2412 MHz



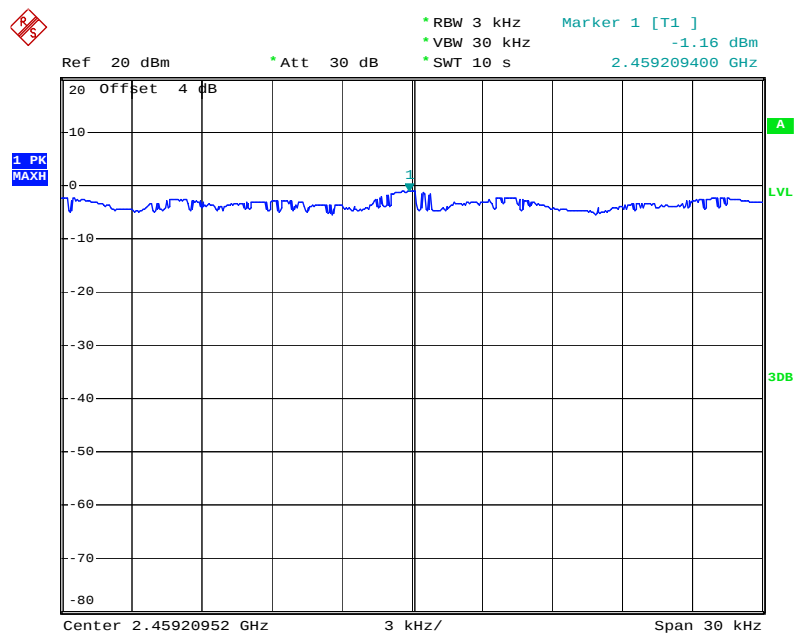
Date: 3.MAY.2010 18:35:33

Power Density Plot on Configuration IEEE 802.11b B2+B6 / 2437 MHz



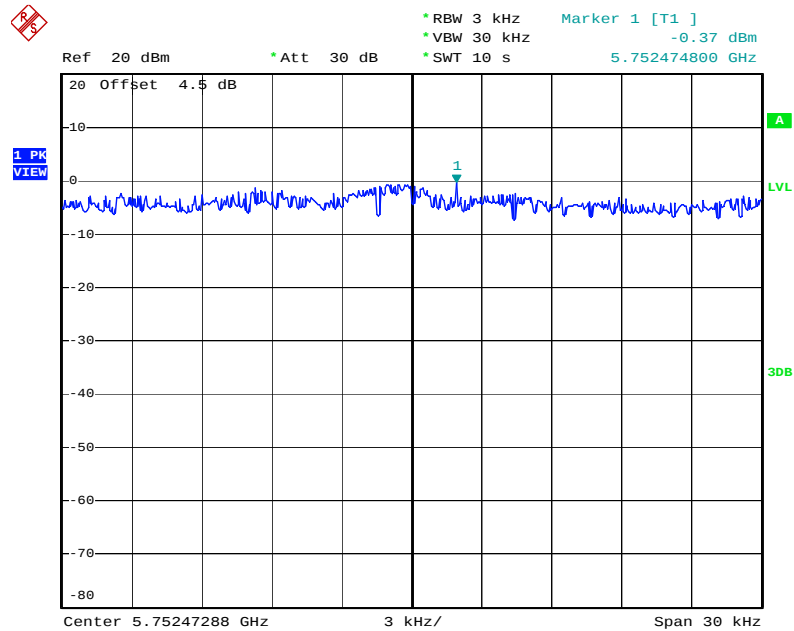
Date: 3.MAY.2010 18:32:14

Power Density Plot on Configuration IEEE 802.11b B2+B6 / 2462 MHz



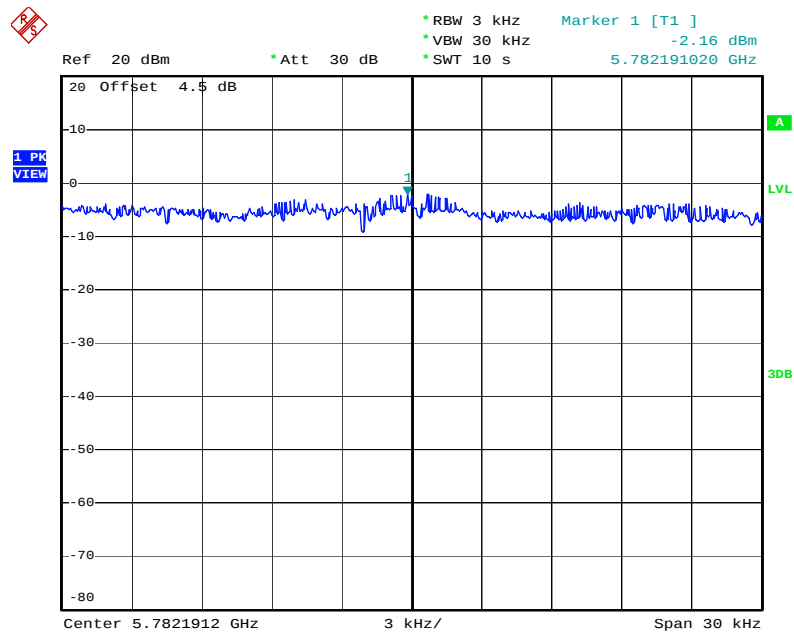
Date: 4.MAY.2010 14:03:33

Power Density Plot on Configuration IEEE 802.11a A1+A5 / 5745 MHz



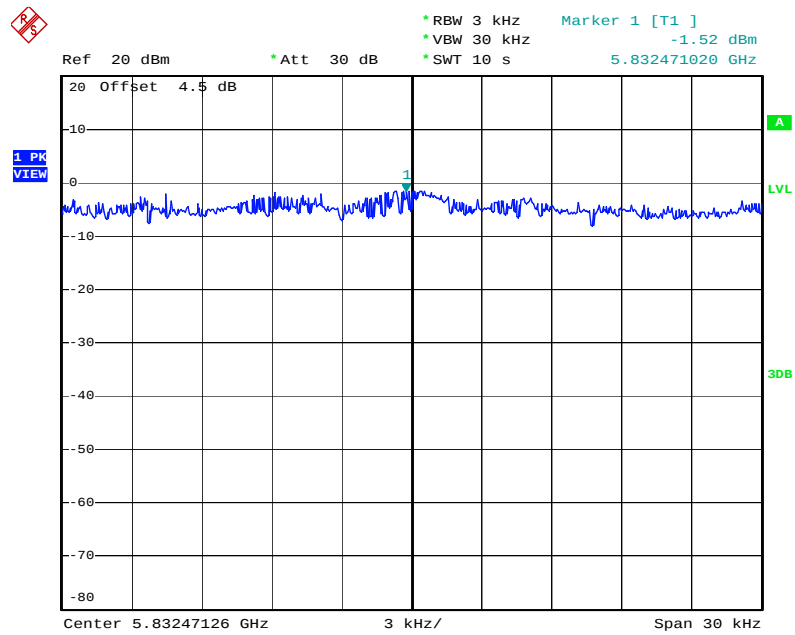
Date: 1.MAY.2010 12:21:50

Power Density Plot on Configuration IEEE 802.11a A1+A5 / 5785 MHz



Date: 1.MAY.2010 12:24:55

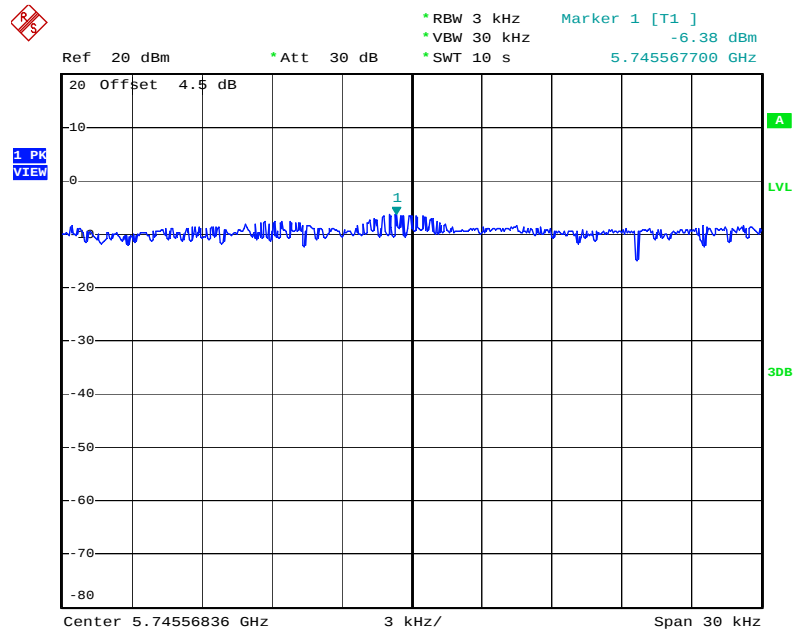
Power Density Plot on Configuration IEEE 802.11a A1+A5 / 5825 MHz



Date: 1.MAY.2010 12:27:04

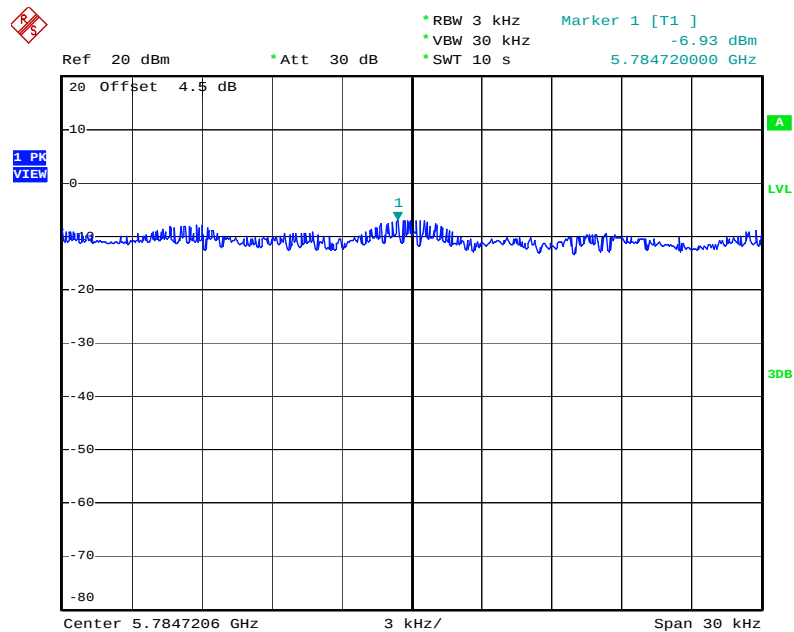
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Power Density Plot on Configuration IEEE 802.11a A1+A5 / 5745 MHz



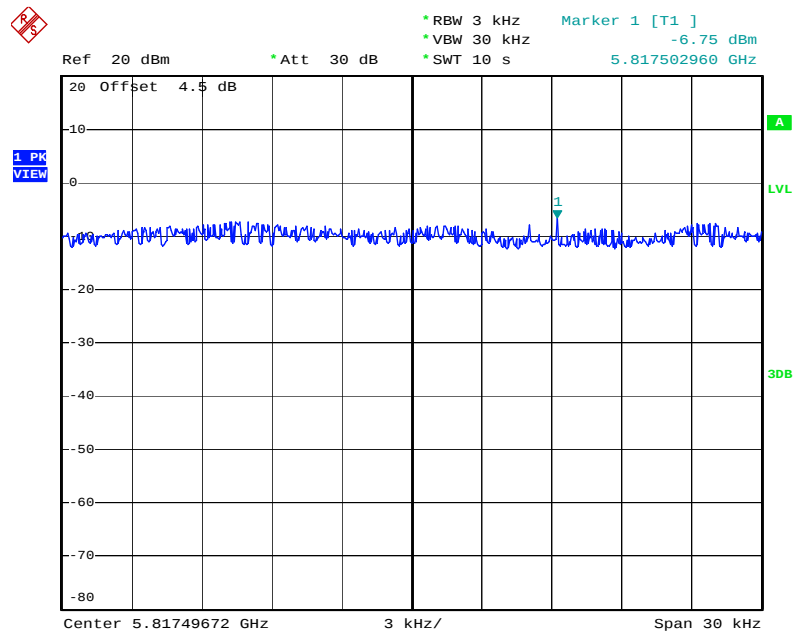
Date: 5.MAY.2010 21:46:20

Power Density Plot on Configuration IEEE 802.11a A1+A5 / 5785 MHz



Date: 5.MAY.2010 21:44:14

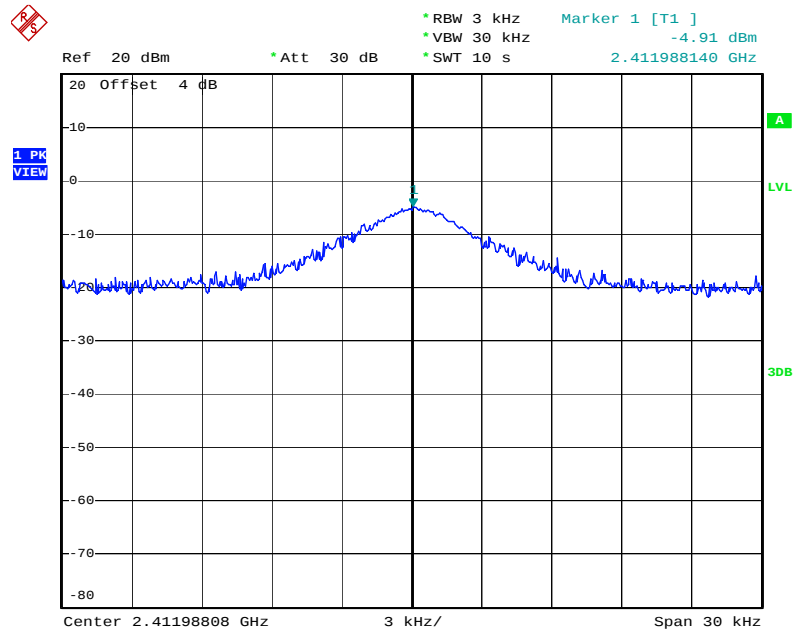
Power Density Plot on Configuration IEEE 802.11a A1+A5 / 5825 MHz



Date: 5.MAY.2010 22:01:07

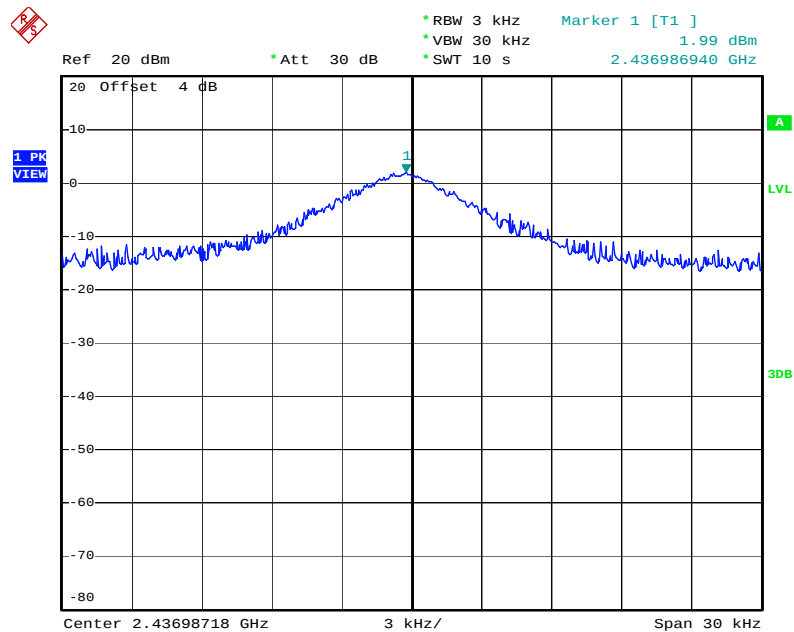
< For Ant. 6 >

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz B2+B6 / 2412 MHz



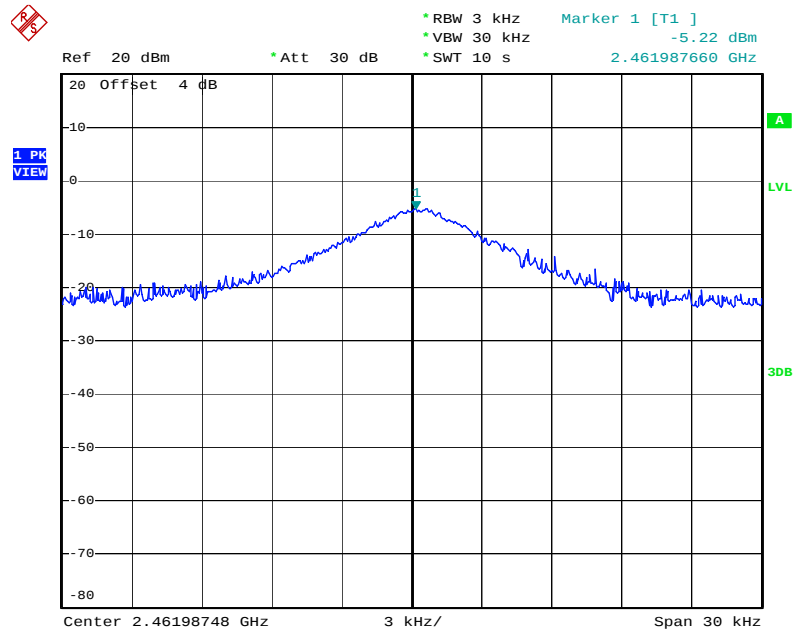
Date: 5.MAY.2010 10:27:18

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz B2+B6 / 2437 MHz



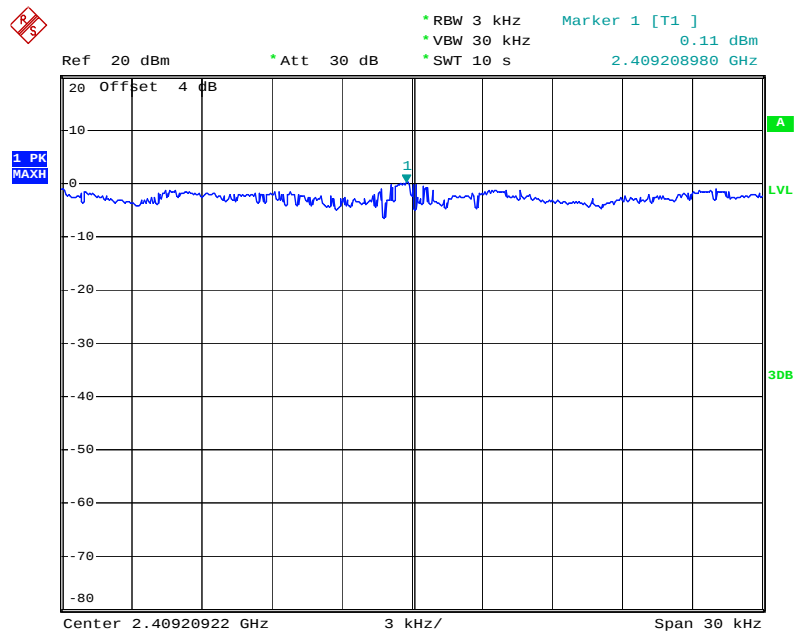
Date: 5.MAY.2010 10:30:06

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz B2+B6 / 2462 MHz



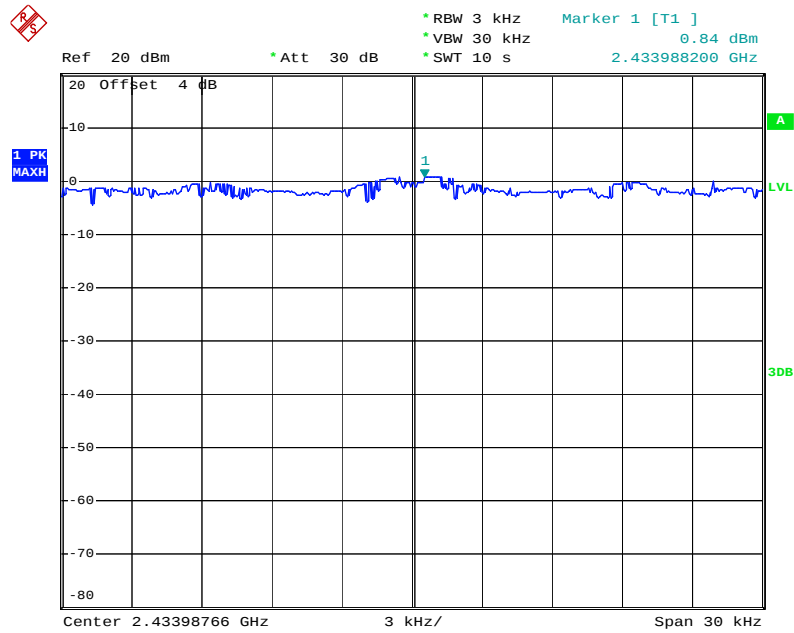
Date: 5.MAY.2010 10:32:21

Power Density Plot on Configuration IEEE 802.11b B2+B6 / 2412 MHz



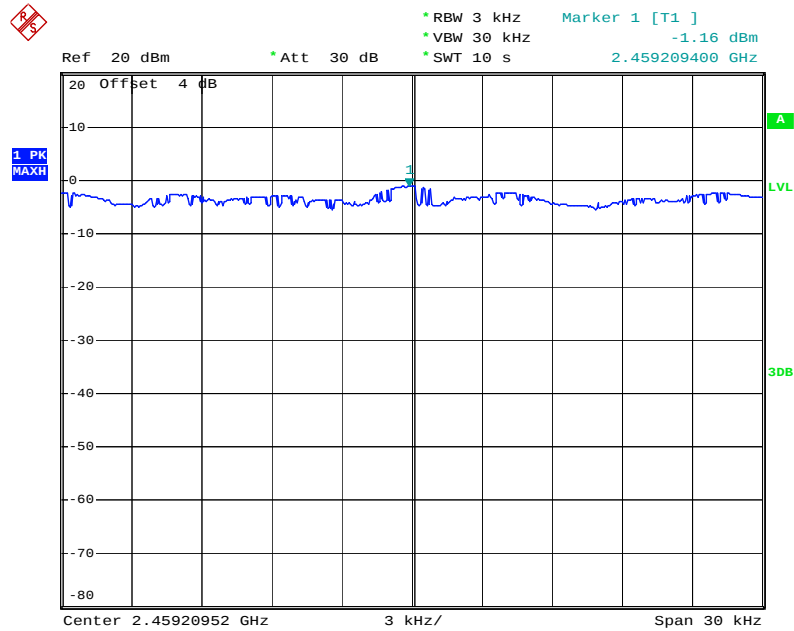
Date: 5.MAY.2010 10:43:53

Power Density Plot on Configuration IEEE 802.11b B2+B6 / 2437 MHz



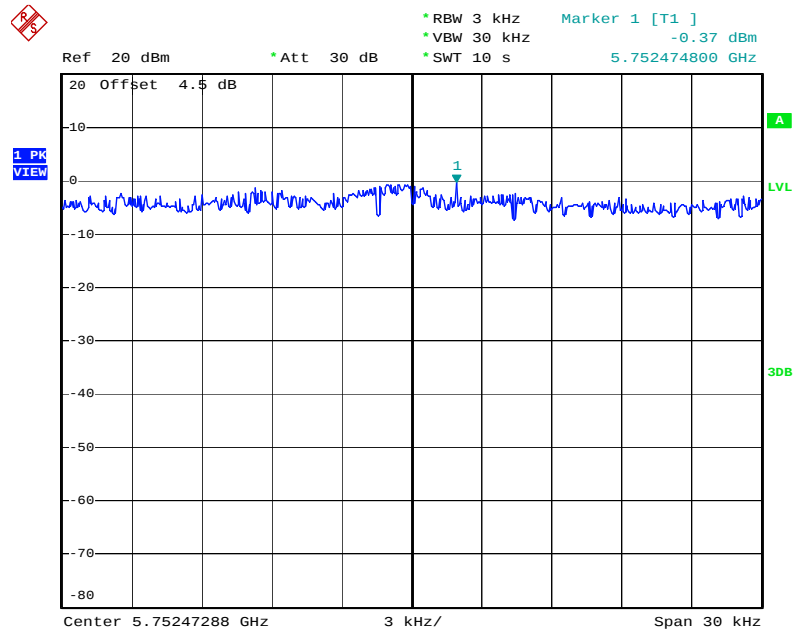
Date: 3.MAY.2010 18:32:14

Power Density Plot on Configuration IEEE 802.11b B2+B6 / 2462 MHz



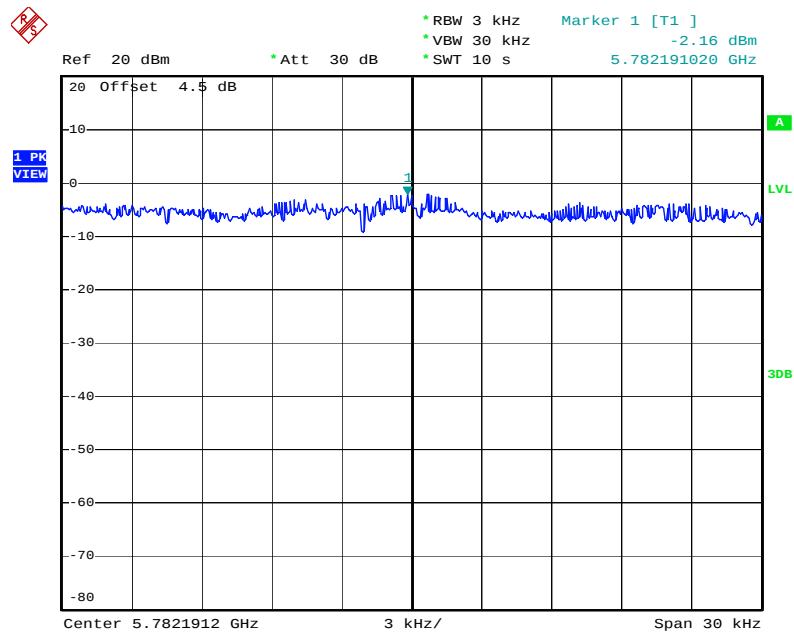
Date: 4.MAY.2010 14:03:33

Power Density Plot on Configuration IEEE 802.11a A1+A5 / 5745 MHz



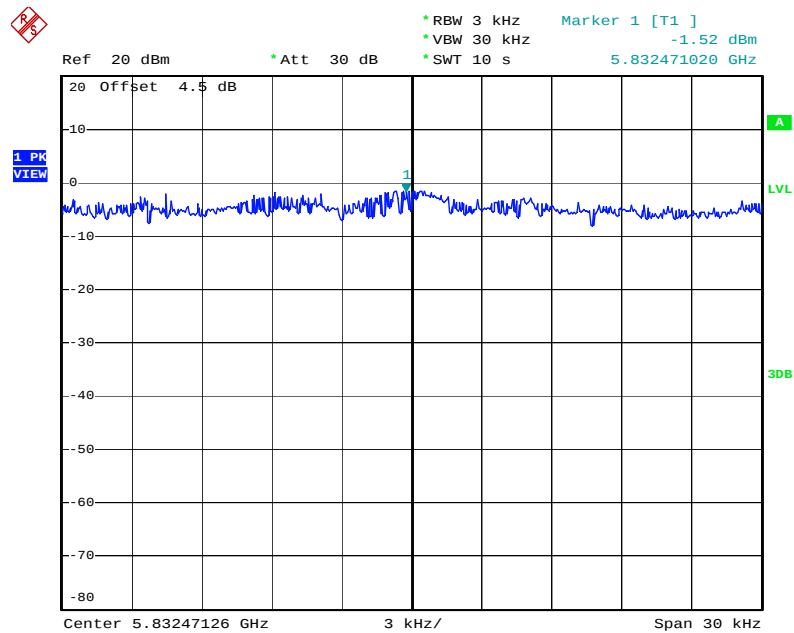
Date: 1.MAY.2010 12:21:50

Power Density Plot on Configuration IEEE 802.11a A1+A5 / 5785 MHz



Date: 1.MAY.2010 12:24:55

Power Density Plot on Configuration IEEE 802.11a A1+A5 / 5825 MHz



Date: 1.MAY.2010 12:27:04

4.4. 6dB Spectrum Bandwidth Measurement

4.4.1. Limit

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

4.4.2. Measuring Instruments and Setting

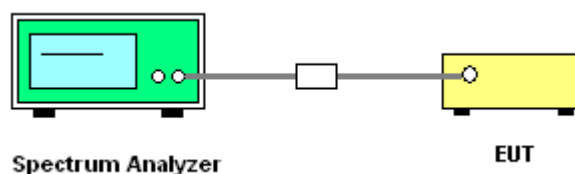
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

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

4.4.3. 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.

4.4.4. Test Setup Layout



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. Test Result of 6dB Spectrum Bandwidth

< For Ant. 1 >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Ant. 1

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.00	17.68	500	Complies
6	2437 MHz	16.36	17.68	500	Complies
11	2462 MHz	16.92	17.68	500	Complies

Configuration IEEE 802.11n MCS8 40MHz B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	34.56	36.16	500	Complies
6	2437 MHz	35.76	36.24	500	Complies
9	2452 MHz	35.76	36.24	500	Complies

For 5GHz Band

Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.32	17.72	500	Complies
157	5785 MHz	16.32	17.68	500	Complies
165	5825 MHz	16.68	17.68	500	Complies

Configuration 11a IEEE 802.11n MCS8 40MHz A1+A5

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	35.20	36.32	500	Complies
159	5795 MHz	35.12	36.24	500	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/b/g / Ant. 1

Configuration IEEE 802.11b B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	11.12	15.60	500	Complies
6	2437 MHz	12.08	15.84	500	Complies
11	2462 MHz	13.04	15.64	500	Complies

Configuration IEEE 802.11g B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.16	16.48	500	Complies
6	2437 MHz	16.12	16.48	500	Complies
11	2462 MHz	16.32	16.48	500	Complies

Configuration IEEE 802.11a A1+A5

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.36	16.60	500	Complies
157	5785 MHz	16.36	16.60	500	Complies
165	5825 MHz	16.36	16.60	500	Complies

Note: All the test values were listed in the report.

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

< For Ant. 2 >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Ant. 2

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.64	17.68	500	Complies
6	2437 MHz	17.04	17.68	500	Complies
11	2462 MHz	16.72	17.68	500	Complies

Configuration IEEE 802.11n MCS8 40MHz B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	35.68	36.24	500	Complies
6	2437 MHz	34.48	36.32	500	Complies
9	2452 MHz	34.40	36.24	500	Complies

For 5GHz Band

Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.00	17.72	500	Complies
157	5785 MHz	16.96	17.72	500	Complies
165	5825 MHz	16.68	17.68	500	Complies

Configuration 11a IEEE 802.11n MCS8 40MHz A1+A5

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	35.12	36.32	500	Complies
159	5795 MHz	35.76	36.32	500	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/b/g / Ant. 2

Configuration IEEE 802.11b B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	12.08	15.68	500	Complies
6	2437 MHz	13.56	16.00	500	Complies
11	2462 MHz	12.12	15.80	500	Complies

Configuration IEEE 802.11g B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	15.76	16.48	500	Complies
6	2437 MHz	15.72	16.52	500	Complies
11	2462 MHz	16.36	16.48	500	Complies

Configuration IEEE 802.11a A1+A5

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.36	16.68	500	Complies
157	5785 MHz	16.36	16.60	500	Complies
165	5825 MHz	16.36	16.56	500	Complies

Note: All the test values were listed in the report.

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

< For Ant. 3 >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Ant. 3

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.92	17.64	500	Complies
6	2437 MHz	16.68	17.68	500	Complies
11	2462 MHz	16.96	17.68	500	Complies

Configuration IEEE 802.11n MCS8 40MHz B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	34.56	36.24	500	Complies
6	2437 MHz	35.76	36.24	500	Complies
9	2452 MHz	35.76	36.24	500	Complies

For 5GHz Band

Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.00	17.72	500	Complies
157	5785 MHz	16.96	17.72	500	Complies
165	5825 MHz	16.68	17.68	500	Complies

Configuration 11a IEEE 802.11n MCS8 40MHz A1+A5

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	35.12	36.32	500	Complies
159	5795 MHz	35.76	36.32	500	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/b/g / Ant. 3

Configuration IEEE 802.11b B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	11.08	15.56	500	Complies
6	2437 MHz	12.52	15.68	500	Complies
11	2462 MHz	11.08	15.72	500	Complies

Configuration IEEE 802.11g B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.36	16.48	500	Complies
6	2437 MHz	16.32	16.48	500	Complies
11	2462 MHz	16.40	16.48	500	Complies

Configuration IEEE 802.11a A1+A5

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.36	16.68	500	Complies
157	5785 MHz	16.36	16.60	500	Complies
165	5825 MHz	16.36	16.56	500	Complies

Note: All the test values were listed in the report.

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

< For Ant. 4 >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Ant. 4

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.92	17.64	500	Complies
6	2437 MHz	16.68	17.68	500	Complies
11	2462 MHz	16.96	17.68	500	Complies

Configuration IEEE 802.11n MCS8 40MHz B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	35.68	36.16	500	Complies
6	2437 MHz	34.48	36.24	500	Complies
9	2452 MHz	35.84	36.24	500	Complies

For 5GHz Band

Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.00	17.72	500	Complies
157	5785 MHz	16.96	17.72	500	Complies
165	5825 MHz	16.68	17.68	500	Complies

Configuration 11a IEEE 802.11n MCS8 40MHz A1+A5

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	35.12	36.32	500	Complies
159	5795 MHz	35.76	36.32	500	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/b/g / Ant. 4

Configuration IEEE 802.11b B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	11.08	15.56	500	Complies
6	2437 MHz	12.52	15.68	500	Complies
11	2462 MHz	11.60	15.64	500	Complies

Configuration IEEE 802.11g B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.12	16.48	500	Complies
6	2437 MHz	16.32	16.48	500	Complies
11	2462 MHz	16.40	16.48	500	Complies

Configuration IEEE 802.11a A1+A5

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.36	16.68	500	Complies
157	5785 MHz	16.36	16.60	500	Complies
165	5825 MHz	16.36	16.56	500	Complies

Note: All the test values were listed in the report.

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

< For Ant. 5 >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Ant. 5

For 5GHz Band

Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	17.04	17.64	500	Complies
157	5785 MHz	16.80	17.64	500	Complies
165	5825 MHz	16.88	17.64	500	Complies

Configuration 11a IEEE 802.11n MCS8 40MHz A1+A5

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	35.04	36.24	500	Complies
159	5795 MHz	35.12	36.24	500	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a / Ant. 5

Configuration IEEE 802.11a A1+A5

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.36	16.56	500	Complies
157	5785 MHz	16.40	16.52	500	Complies
165	5825 MHz	16.36	16.56	500	Complies

Note: All the test values were listed in the report.

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

< For Ant. 6 >

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11n / Ant. 6

For 2.4GHz Band

Configuration IEEE 802.11n MCS8 20MHz B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.68	17.64	500	Complies
6	2437 MHz	16.96	17.68	500	Complies
11	2462 MHz	17.00	17.68	500	Complies

Configuration IEEE 802.11n MCS8 40MHz B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	35.68	36.24	500	Complies
6	2437 MHz	35.76	36.24	500	Complies
9	2452 MHz	34.72	36.32	500	Complies

For 5GHz Band

Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.00	17.72	500	Complies
157	5785 MHz	16.96	17.72	500	Complies
165	5825 MHz	16.68	17.68	500	Complies

Configuration 11a IEEE 802.11n MCS8 40MHz A1+A5

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
151	5755 MHz	35.12	36.32	500	Complies
159	5795 MHz	35.76	36.32	500	Complies

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Configurations	IEEE 802.11a/b/g / Ant. 6

Configuration IEEE 802.11b B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	11.08	15.56	500	Complies
6	2437 MHz	12.52	15.68	500	Complies
11	2462 MHz	11.60	15.64	500	Complies

Configuration IEEE 802.11g B2+B6

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.08	16.48	500	Complies
6	2437 MHz	16.36	16.52	500	Complies
11	2462 MHz	16.36	16.48	500	Complies

Configuration IEEE 802.11a A1+A5

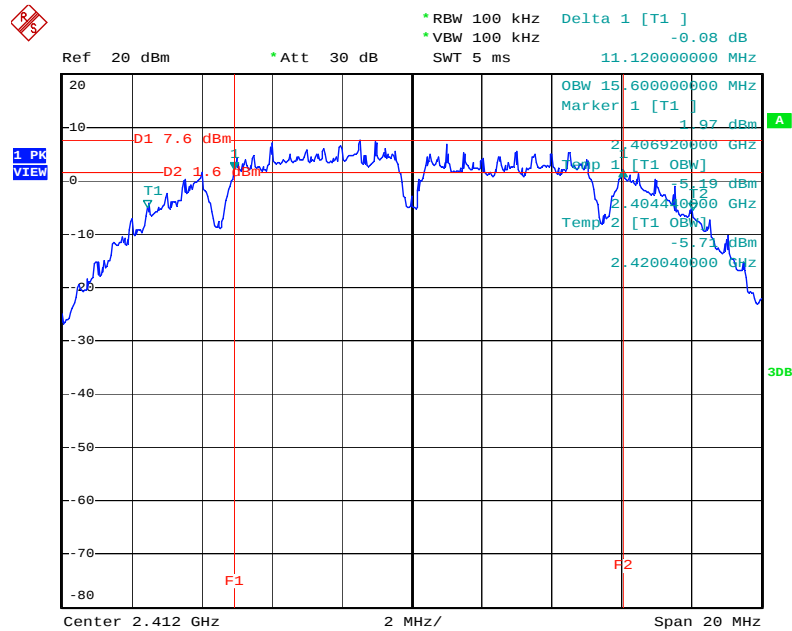
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
149	5745 MHz	16.44	16.48	500	Complies
157	5785 MHz	16.36	16.60	500	Complies
165	5825 MHz	16.36	16.56	500	Complies

Note: All the test values were listed in the report.

For plots, only the worse case of DSSS and OFDM modulation were listed in the report.

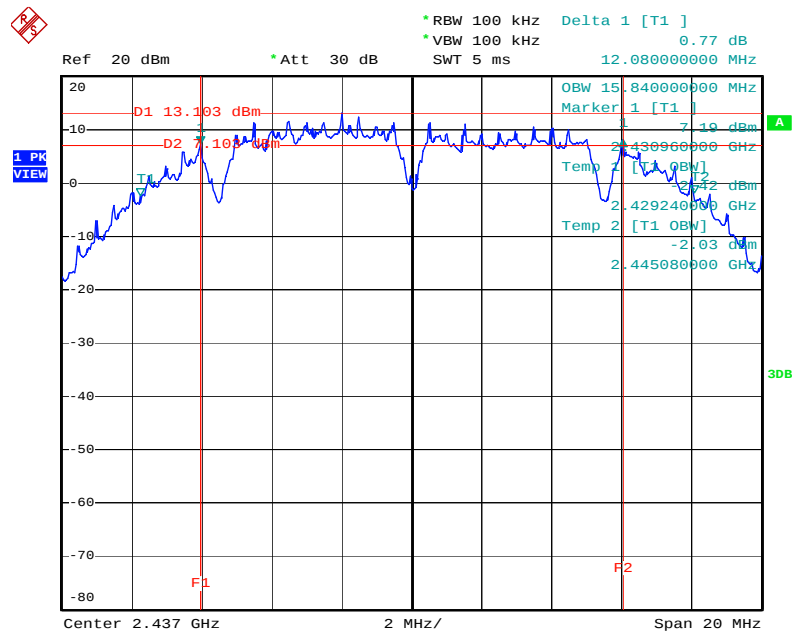
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6 dB Bandwidth Plot on Configuration IEEE 802.11b B2+B6 / 2412 MHz



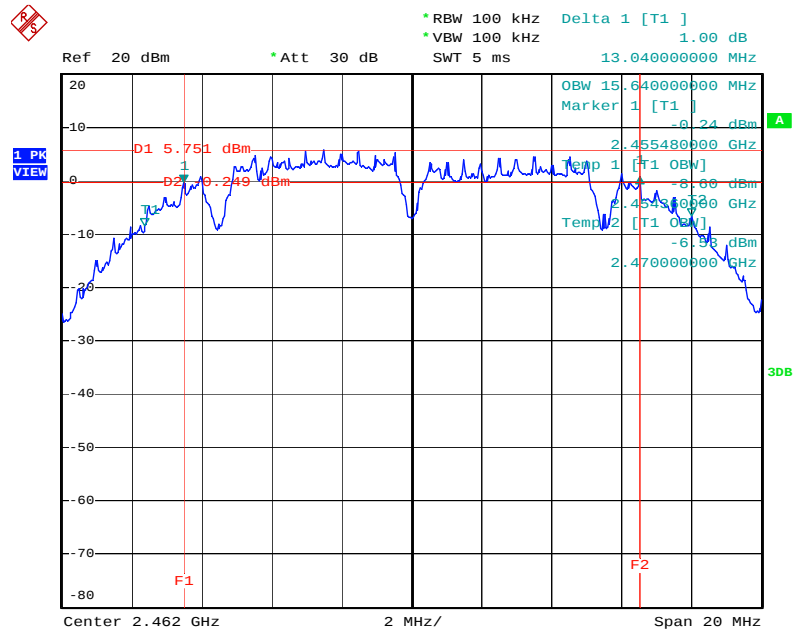
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6 dB Bandwidth Plot on Configuration IEEE 802.11b B2+B6 / 2437 MHz



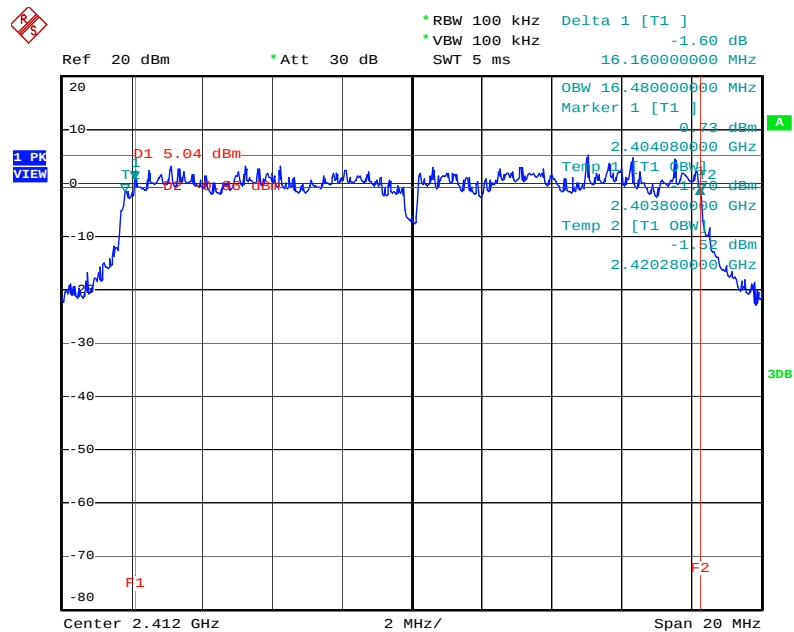
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6 dB Bandwidth Plot on Configuration IEEE 802.11b B2+B6 / 2462 MHz



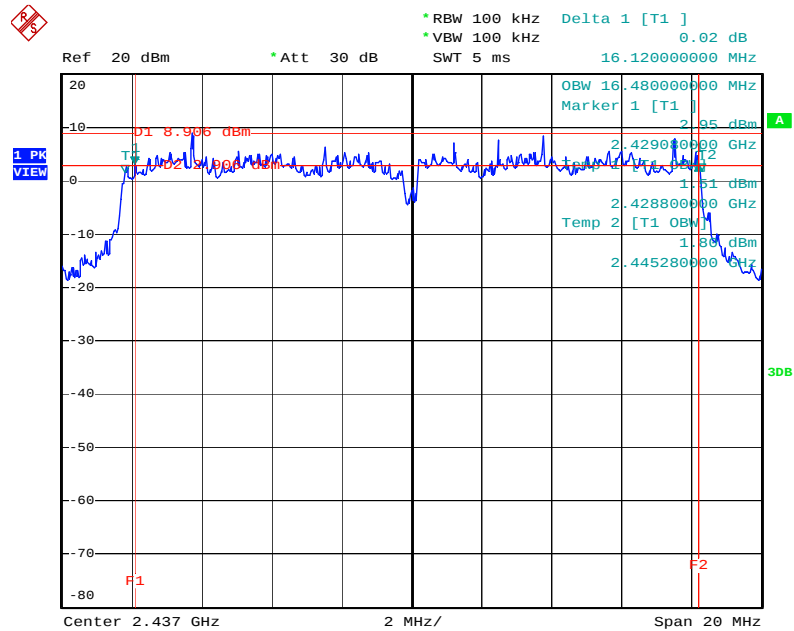
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6 dB Bandwidth Plot on Configuration IEEE 802.11g B2+B6 / 2412 MHz



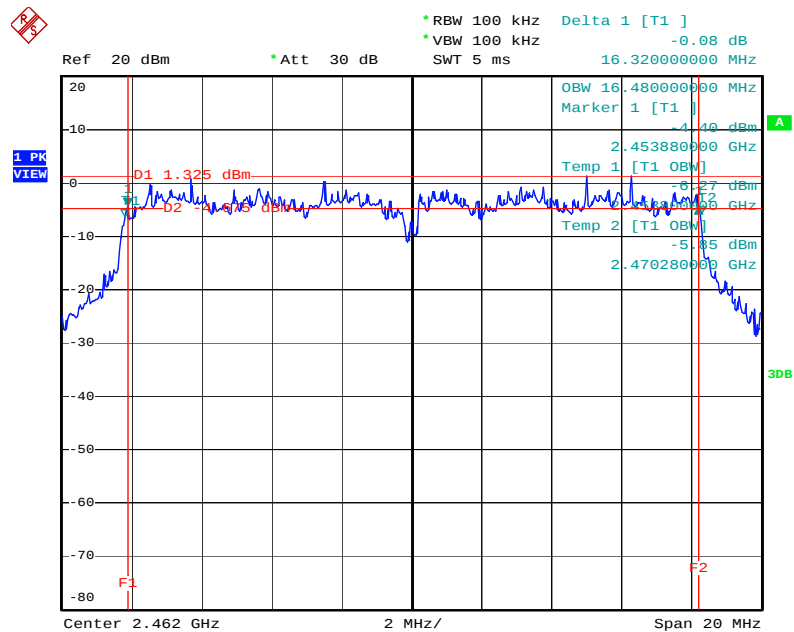
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6 dB Bandwidth Plot on Configuration IEEE 802.11g B2+B6 / 2437 MHz



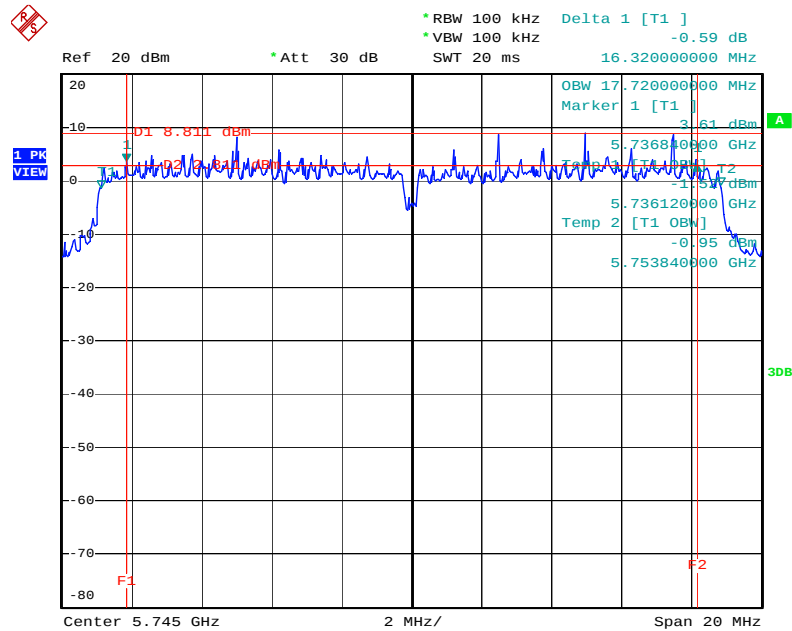
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6 dB Bandwidth Plot on Configuration IEEE 802.11g B2+B6 / 2462 MHz



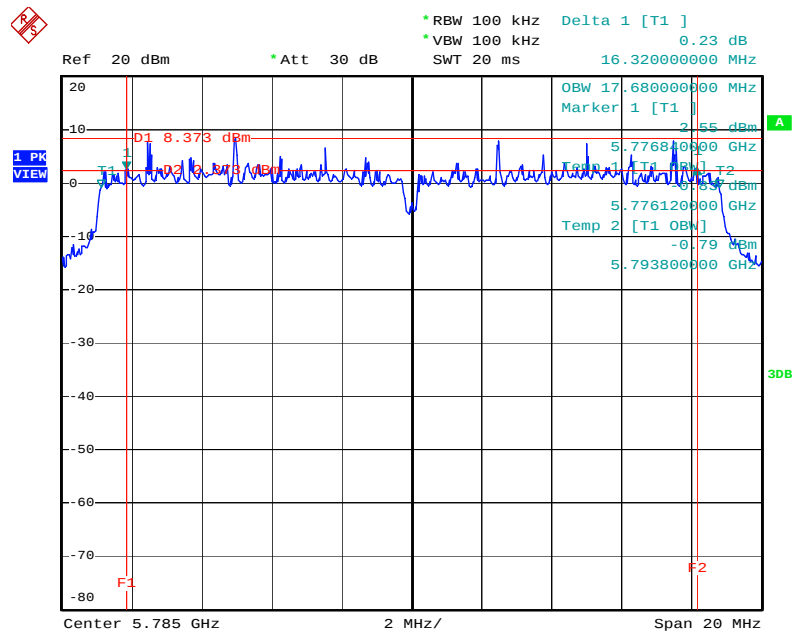
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6 dB Bandwidth Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5 / 5745 MHz



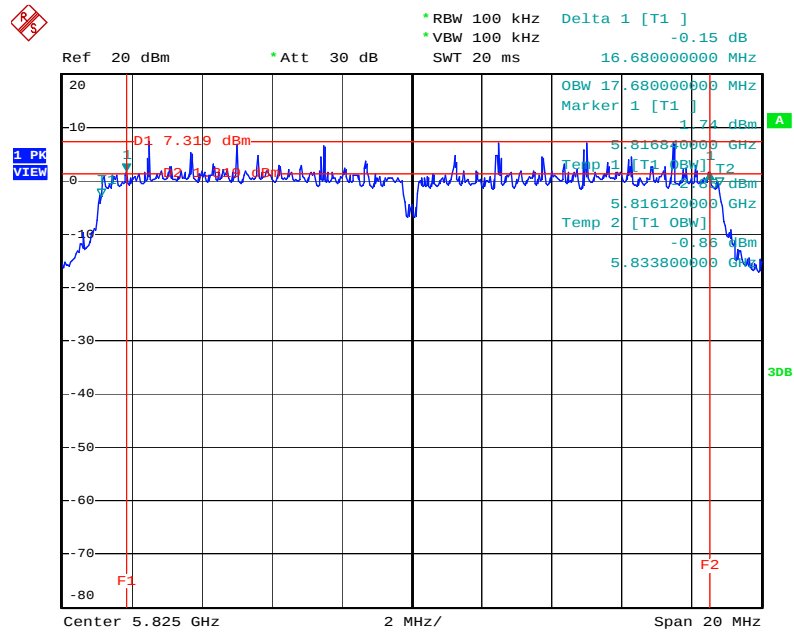
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6 dB Bandwidth Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5 / 5785MHz



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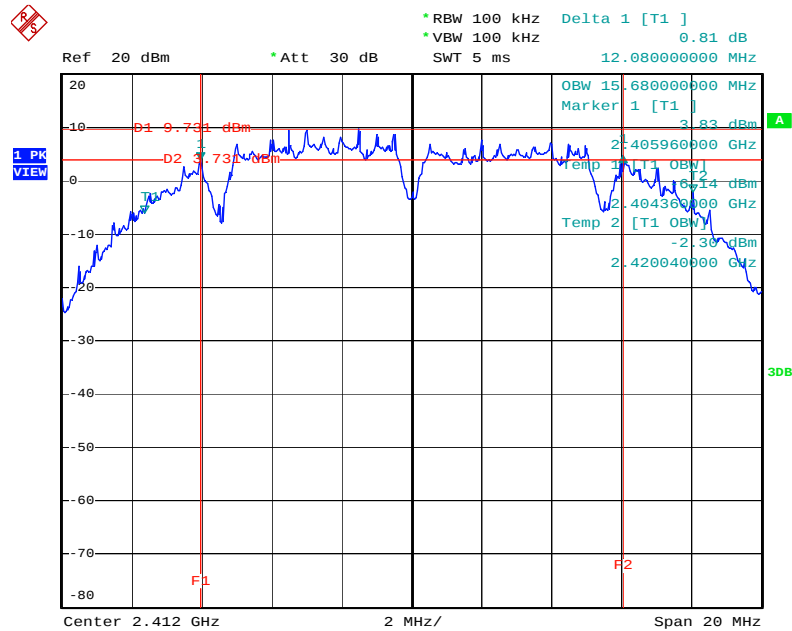
6 dB Bandwidth Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5 / 5825 MHz



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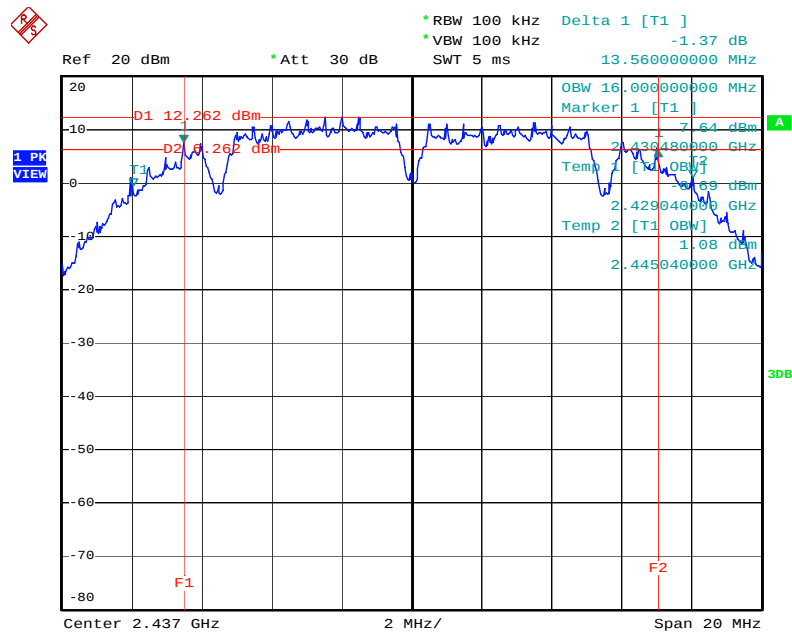
< For Ant. 2 >

6 dB Bandwidth Plot on Configuration IEEE 802.11b B2+B6 / 2412 MHz



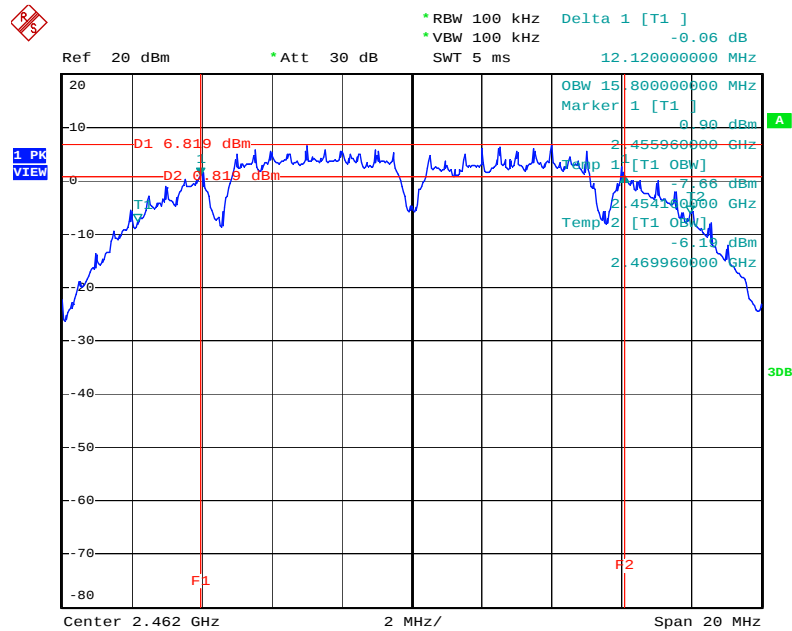
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6 dB Bandwidth Plot on Configuration IEEE 802.11b B2+B6 / 2437 MHz



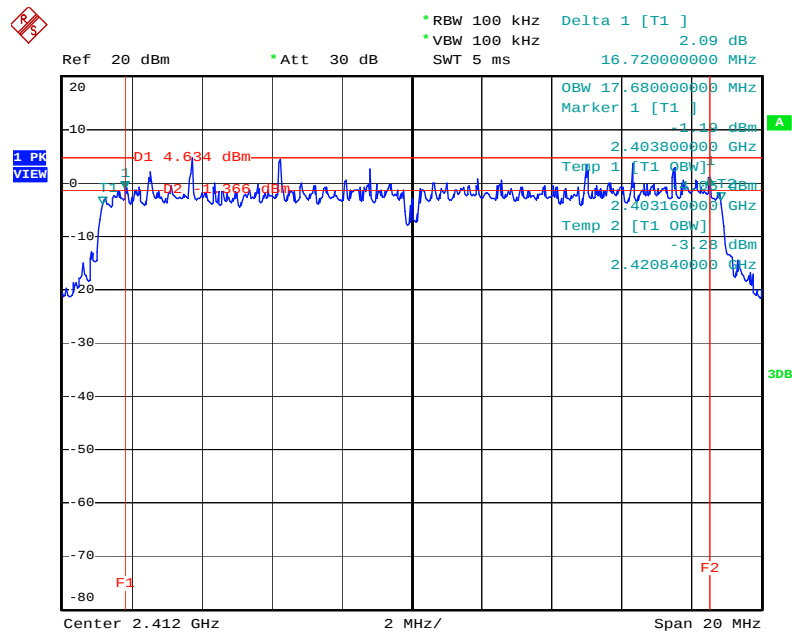
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6 dB Bandwidth Plot on Configuration IEEE 802.11b B2+B6 / 2462 MHz



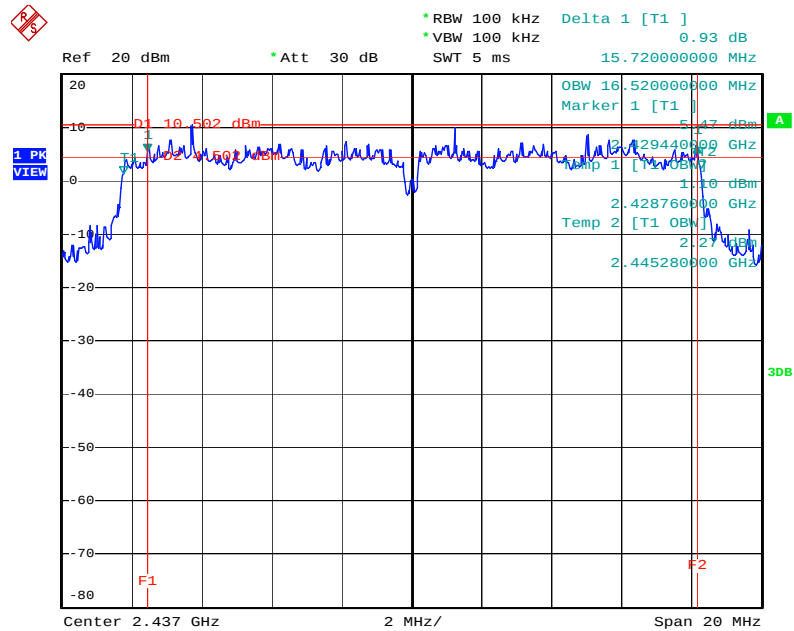
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6 dB Bandwidth Plot on Configuration IEEE 802.11g B2+B6 / 2412 MHz



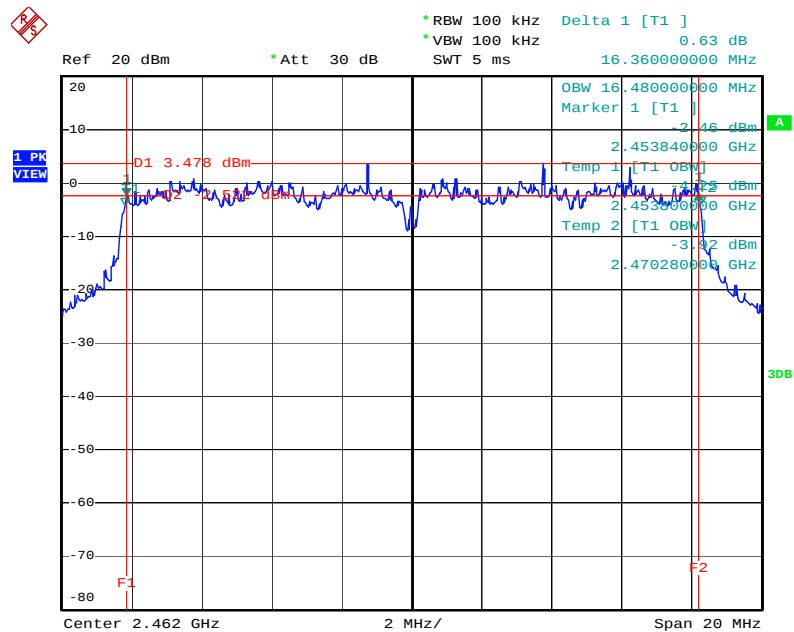
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6 dB Bandwidth Plot on Configuration IEEE 802.11g B2+B6 / 2437 MHz



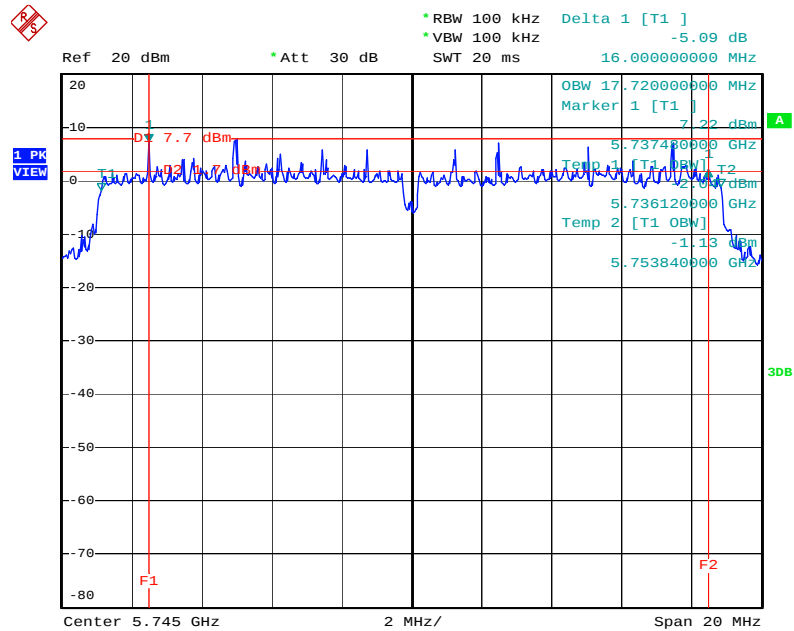
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6 dB Bandwidth Plot on Configuration IEEE 802.11g B2+B6 / 2462 MHz



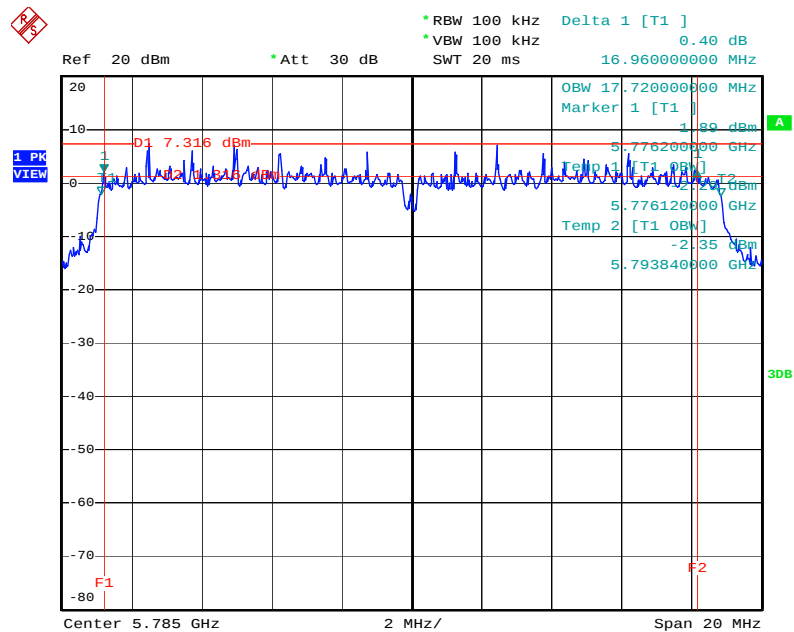
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6 dB Bandwidth Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5 / 5745 MHz



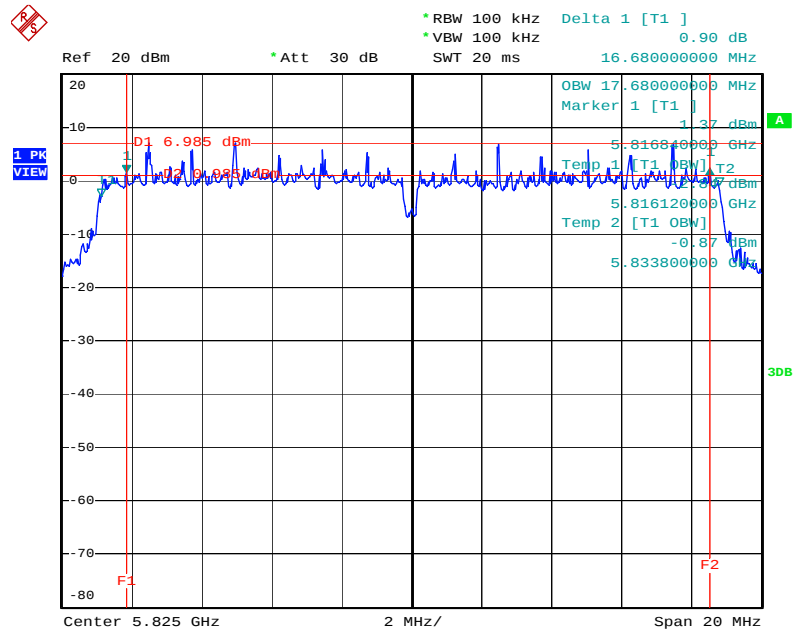
Date: 1.MAY.2010 12:32:09

6 dB Bandwidth Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5 / 5785MHz



Date: 1.MAY.2010 12:29:51

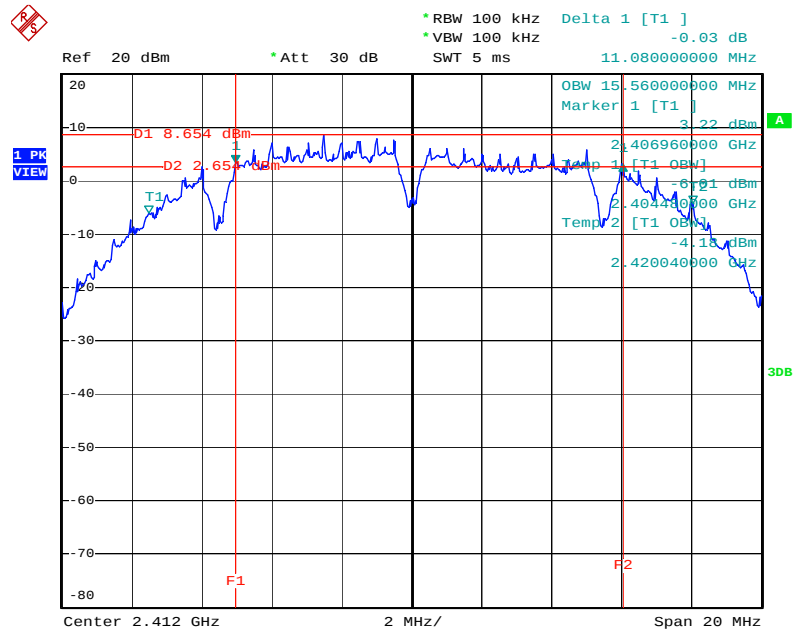
6 dB Bandwidth Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5 / 5825 MHz



Date: 1.MAY.2010 12:27:46

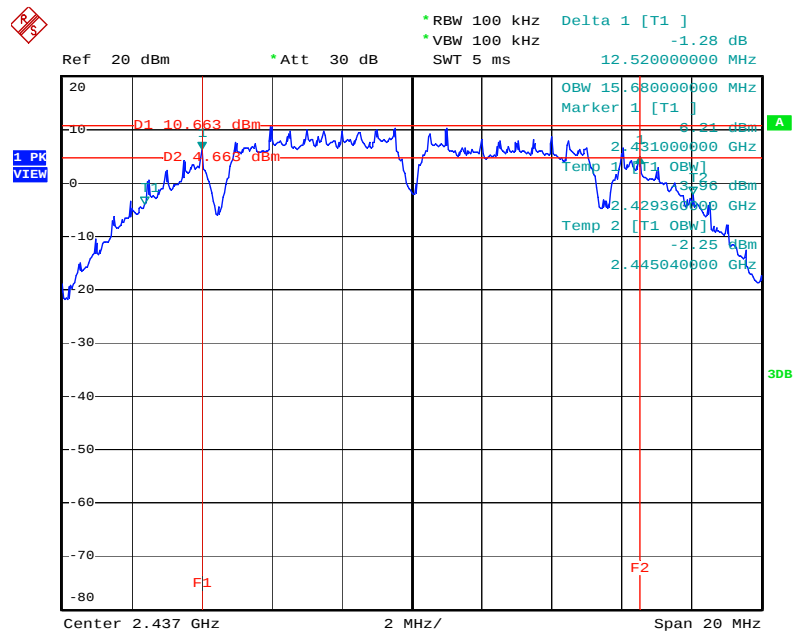
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6 dB Bandwidth Plot on Configuration IEEE 802.11b B2+B6 / 2412 MHz



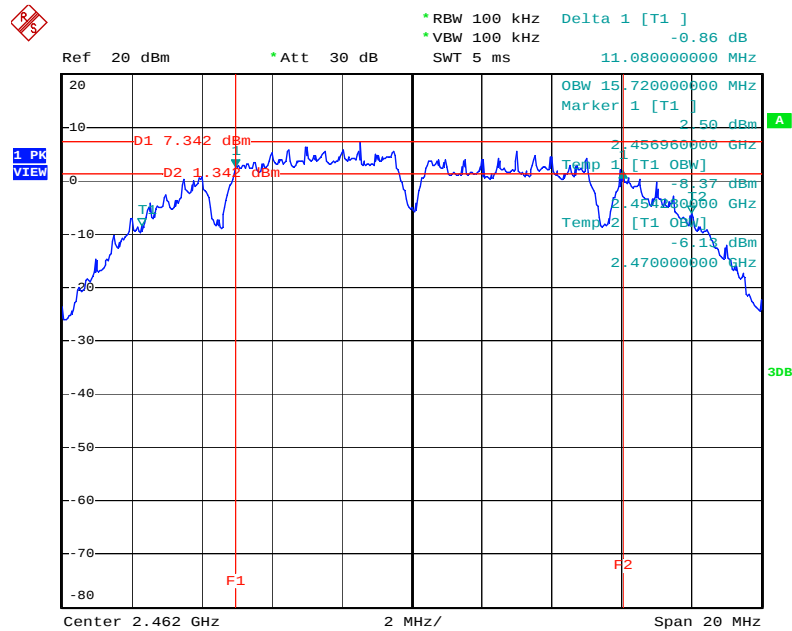
Date: 3.MAY.2010 18:20:14

6 dB Bandwidth Plot on Configuration IEEE 802.11b B2+B6 / 2437 MHz



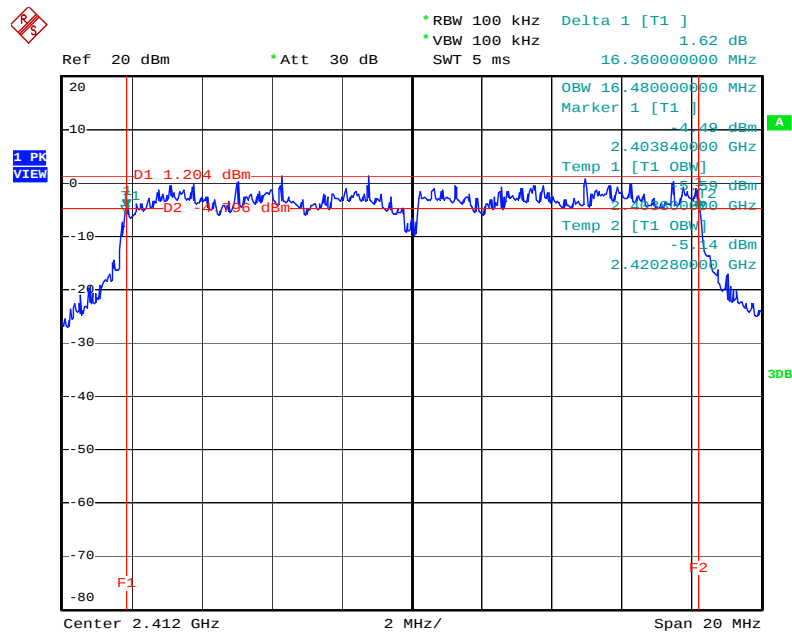
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6 dB Bandwidth Plot on Configuration IEEE 802.11b B2+B6 / 2462 MHz



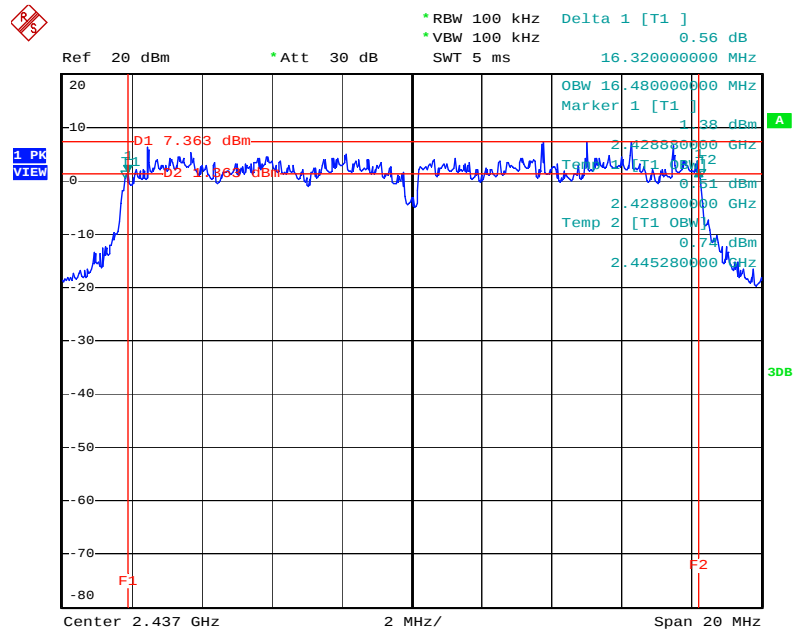
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6 dB Bandwidth Plot on Configuration IEEE 802.11g B2+B6 / 2412 MHz



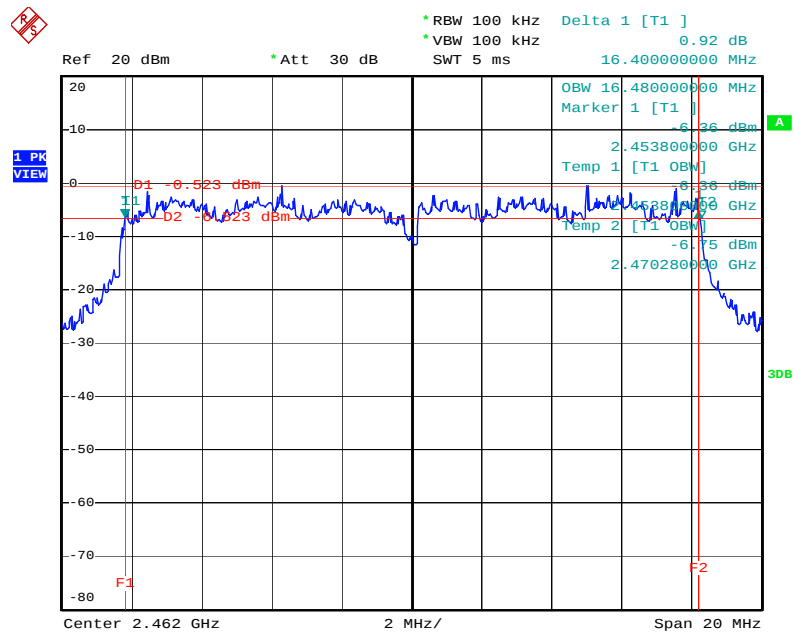
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6 dB Bandwidth Plot on Configuration IEEE 802.11g B2+B6 / 2437 MHz



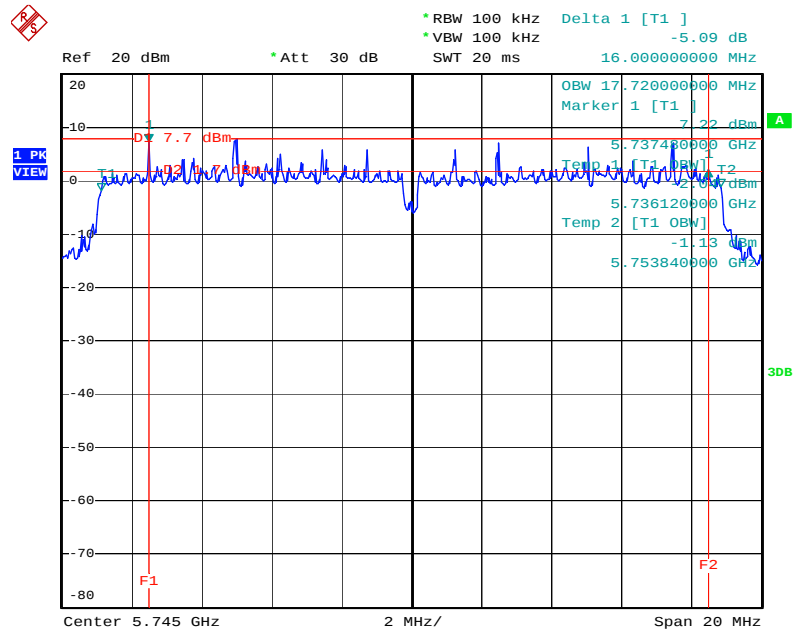
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6 dB Bandwidth Plot on Configuration IEEE 802.11g B2+B6 / 2462 MHz



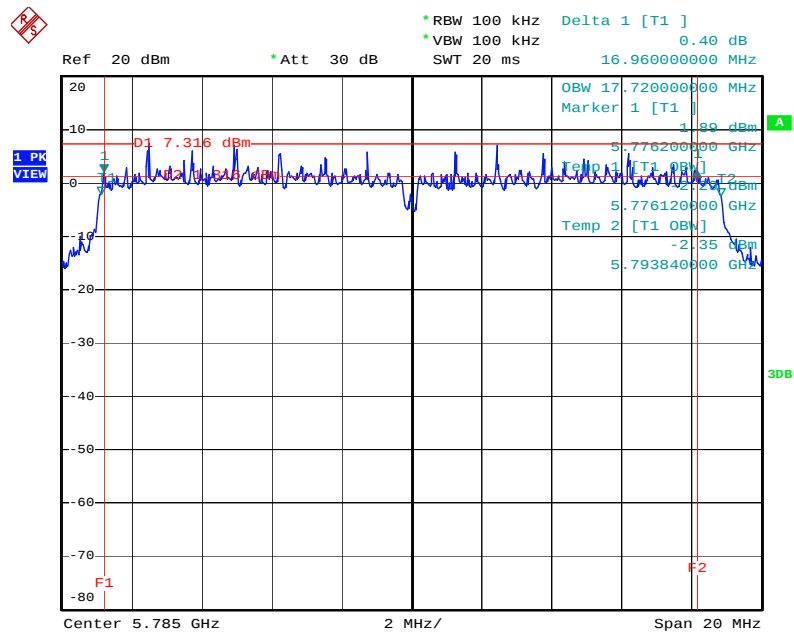
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6 dB Bandwidth Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5 / 5745 MHz



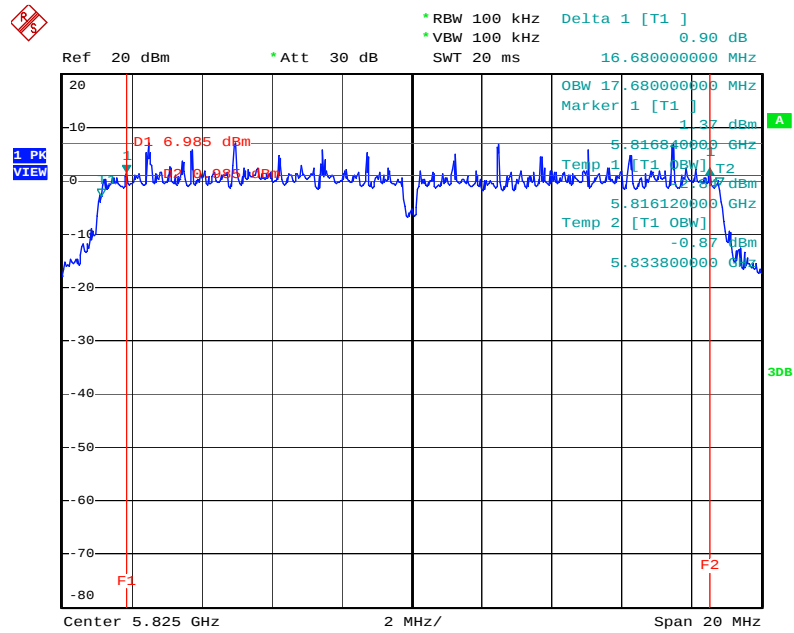
Date: 1.MAY.2010 12:32:09

6 dB Bandwidth Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5 / 5785MHz



Date: 1.MAY.2010 12:29:51

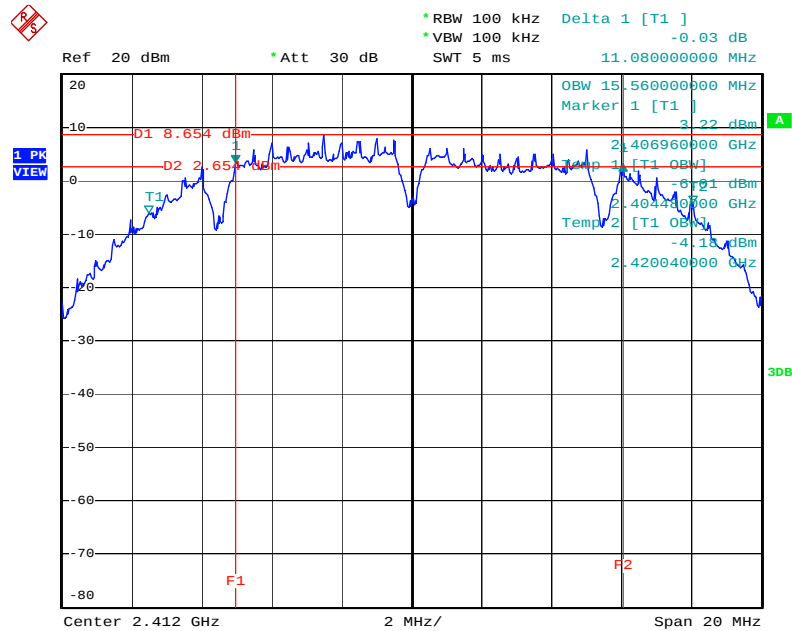
6 dB Bandwidth Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5 / 5825 MHz



Date: 1.MAY.2010 12:27:46

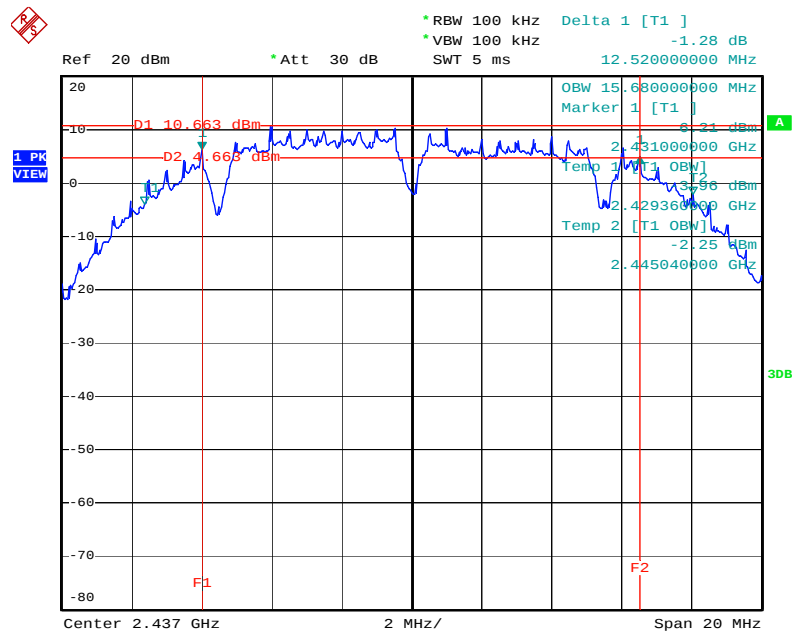
< For Ant. 4 >

6 dB Bandwidth Plot on Configuration IEEE 802.11b B2+B6 / 2412 MHz



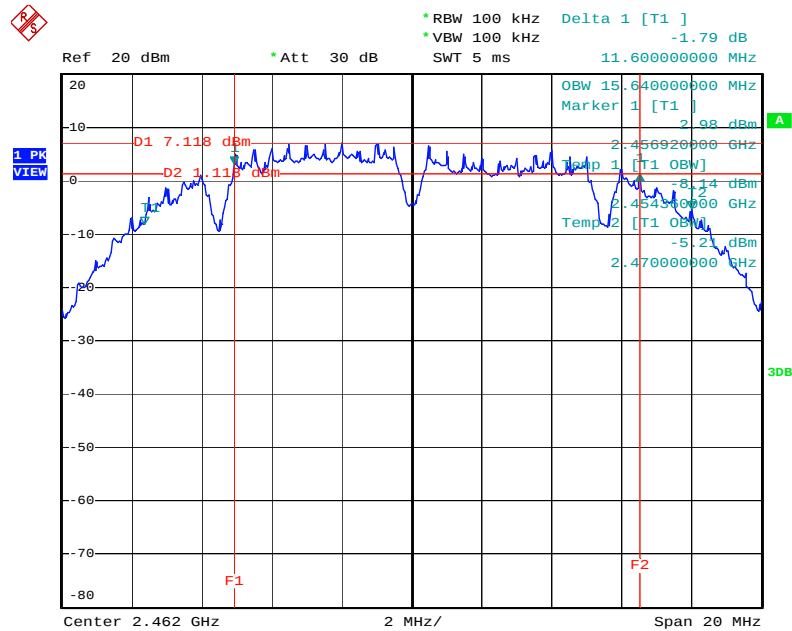
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6 dB Bandwidth Plot on Configuration IEEE 802.11b B2+B6 / 2437 MHz



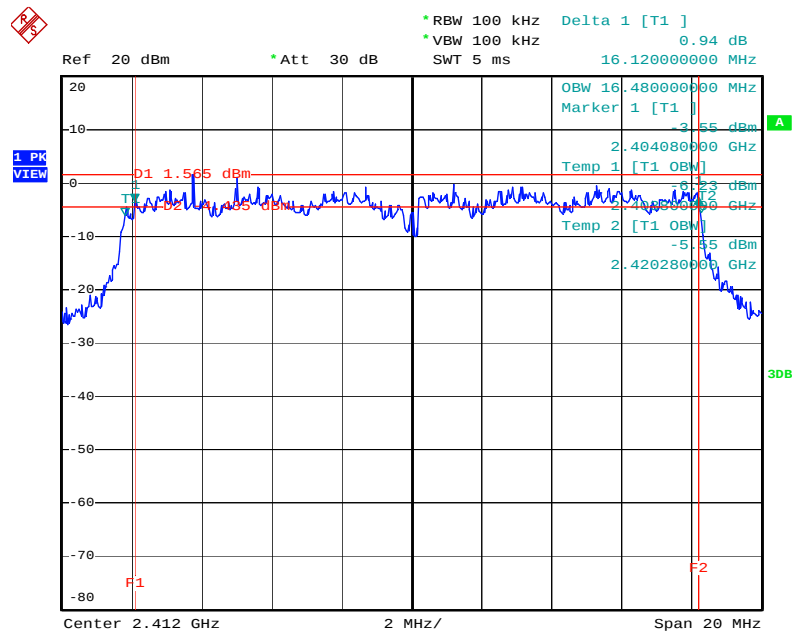
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6 dB Bandwidth Plot on Configuration IEEE 802.11b B2+B6 / 2462 MHz



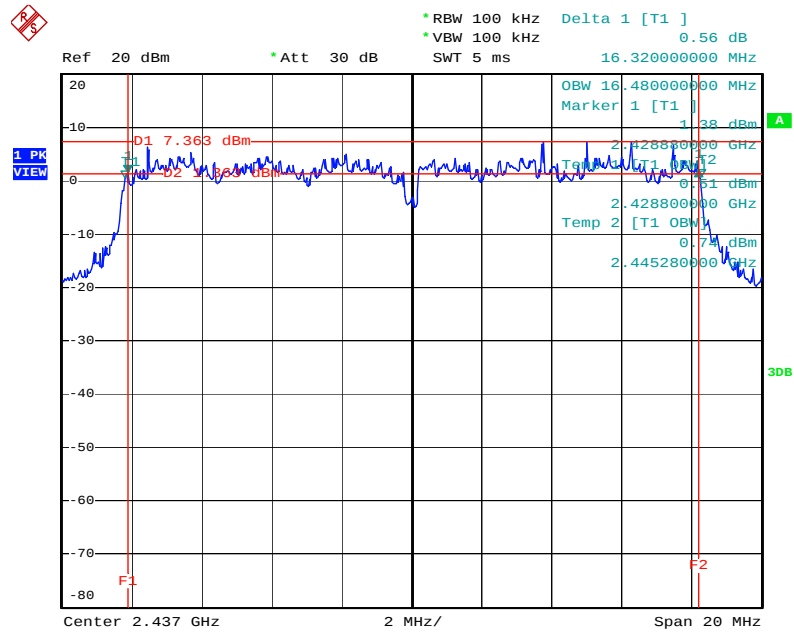
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6 dB Bandwidth Plot on Configuration IEEE 802.11g B2+B6 / 2412 MHz



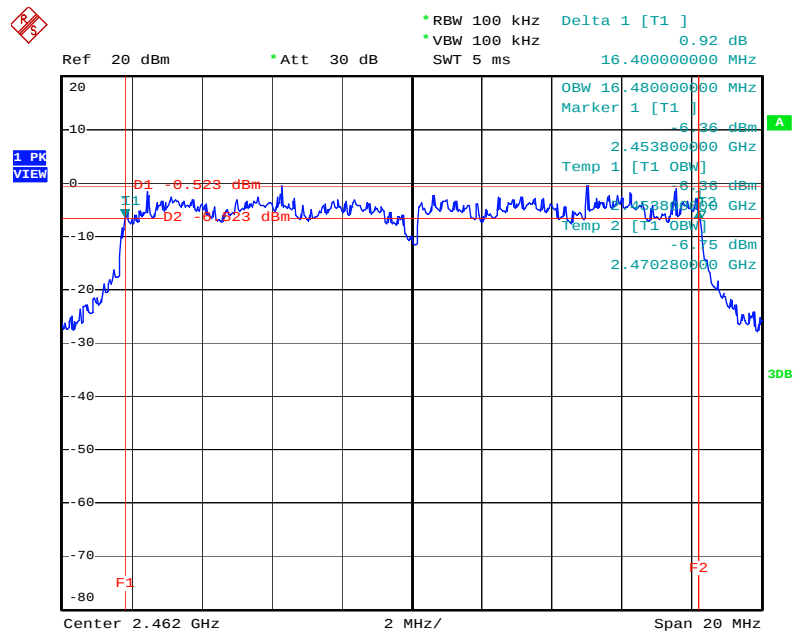
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6 dB Bandwidth Plot on Configuration IEEE 802.11g B2+B6 / 2437 MHz



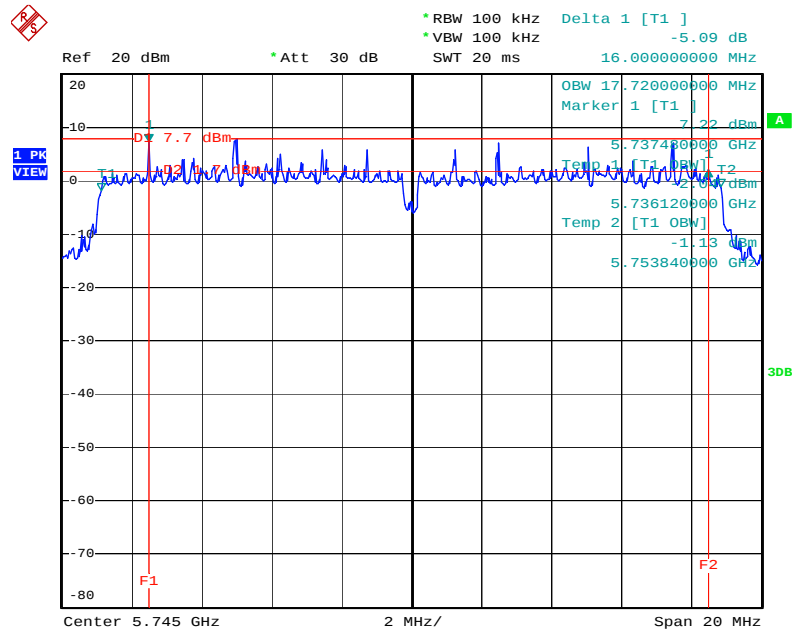
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6 dB Bandwidth Plot on Configuration IEEE 802.11g B2+B6 / 2462 MHz



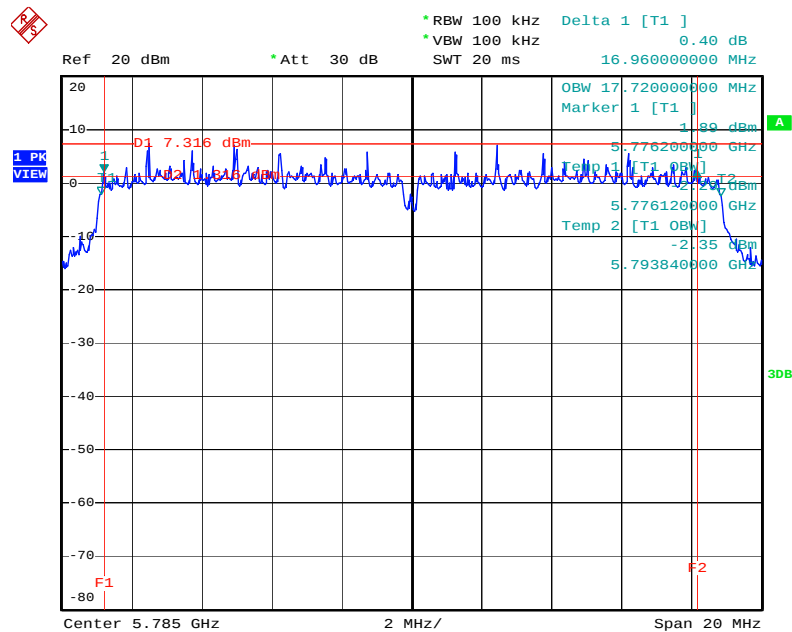
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6 dB Bandwidth Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5 / 5745 MHz



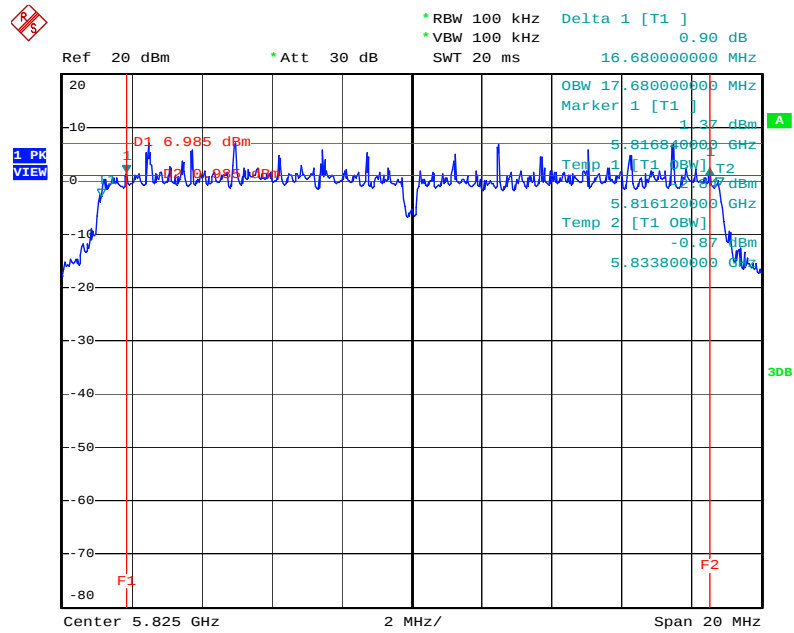
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6 dB Bandwidth Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5 / 5785MHz



Date: 1.MAY.2010 12:29:51

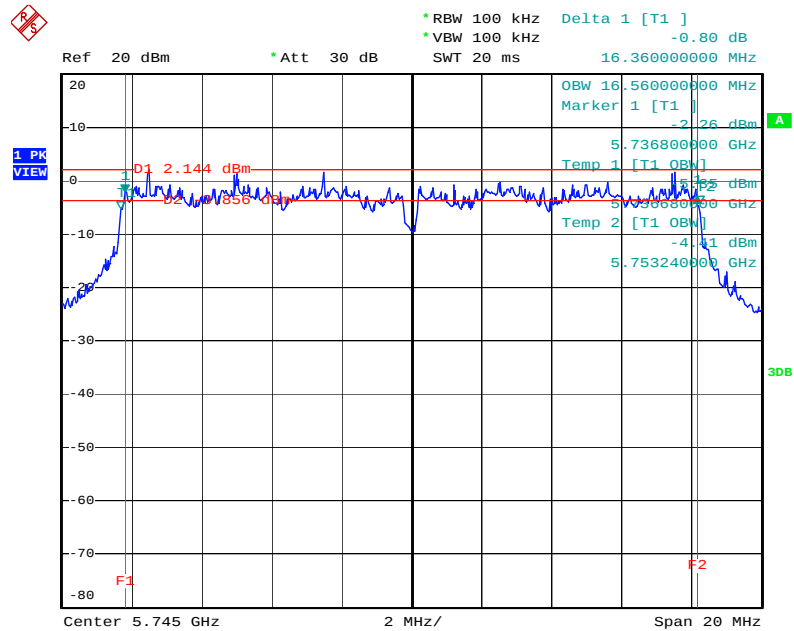
6 dB Bandwidth Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5 / 5825 MHz



Date: 1.MAY.2010 12:27:46

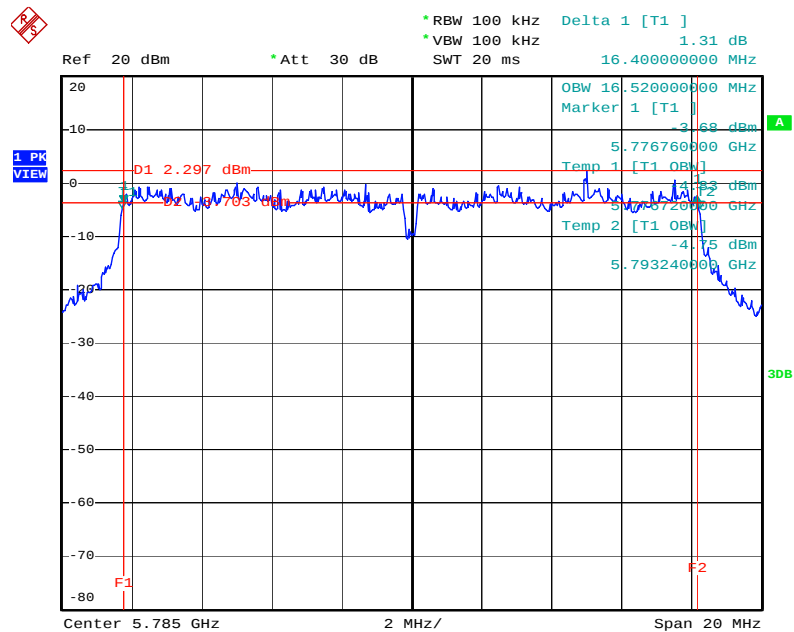
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6 dB Bandwidth Plot on Configuration IEEE 802.11a A1+A5 / 5745 MHz



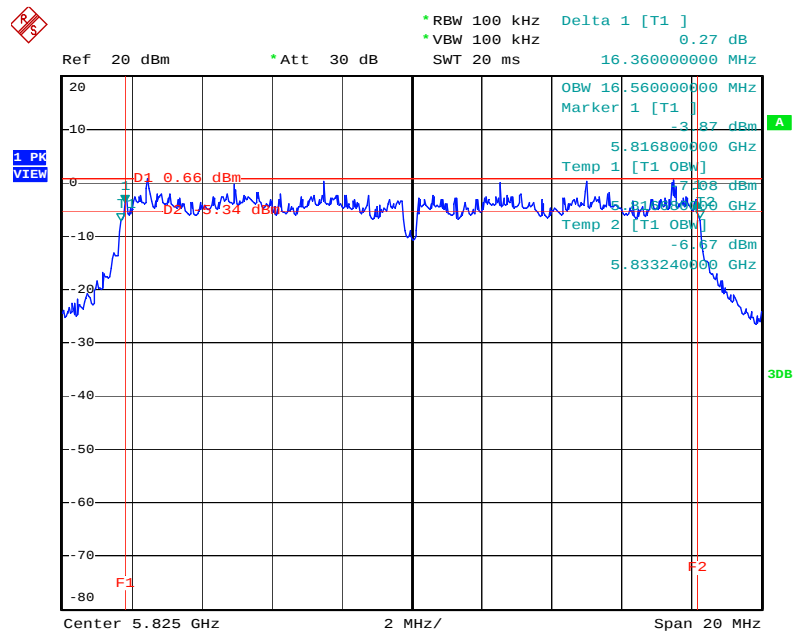
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6 dB Bandwidth Plot on Configuration IEEE 802.11a A1+A5 / 5785 MHz



Date: 5.MAY.2010 21:42:45

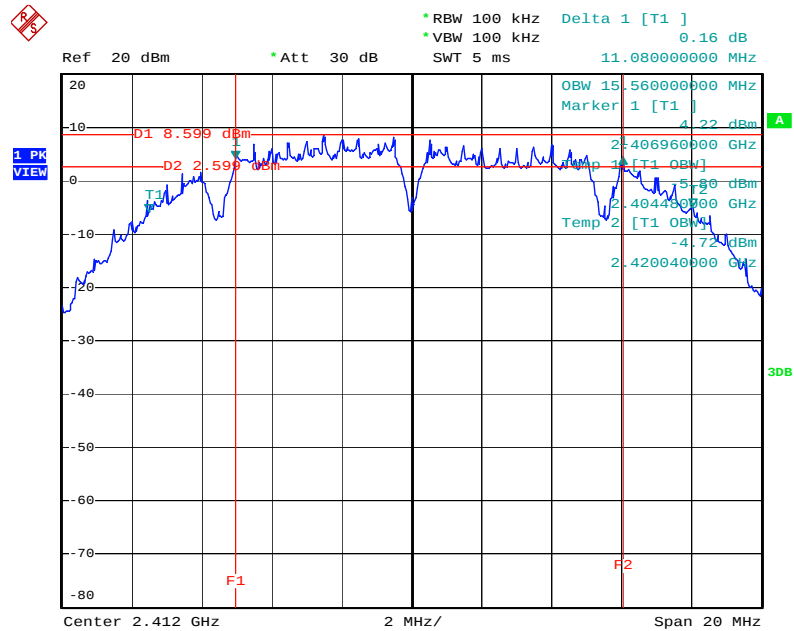
6 dB Bandwidth Plot on Configuration IEEE 802.11a A1+A5 / 5825 MHz



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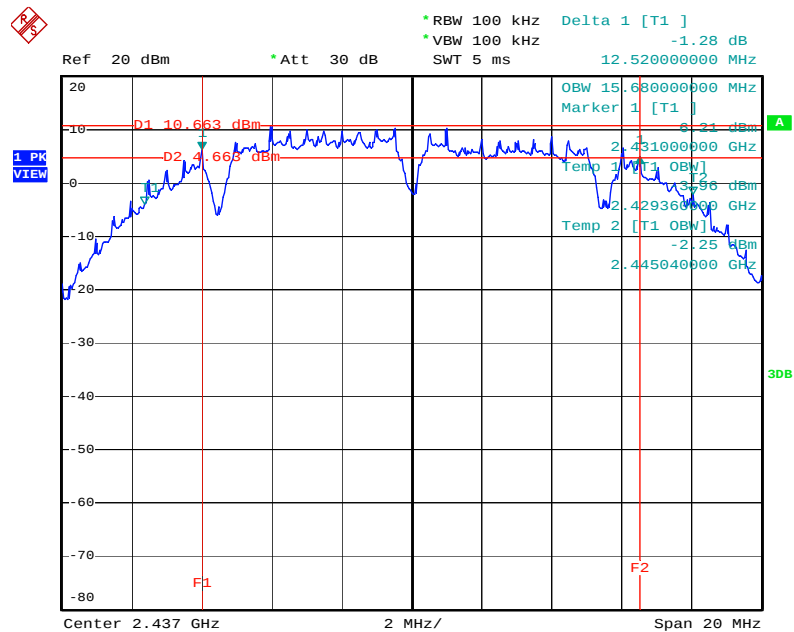
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6 dB Bandwidth Plot on Configuration IEEE 802.11b B2+B6 / 2412 MHz



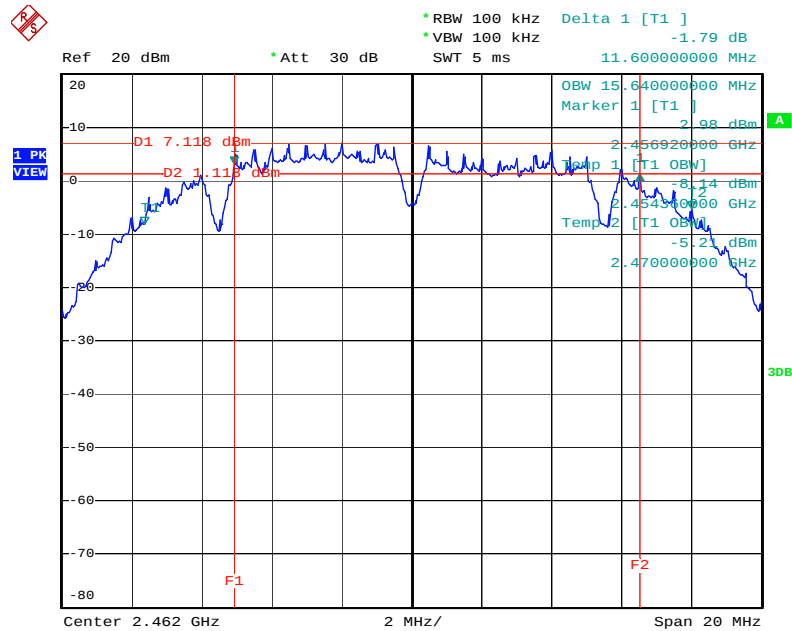
Date: 5.MAY.2010 10:40:30

6 dB Bandwidth Plot on Configuration IEEE 802.11b B2+B6 / 2437 MHz



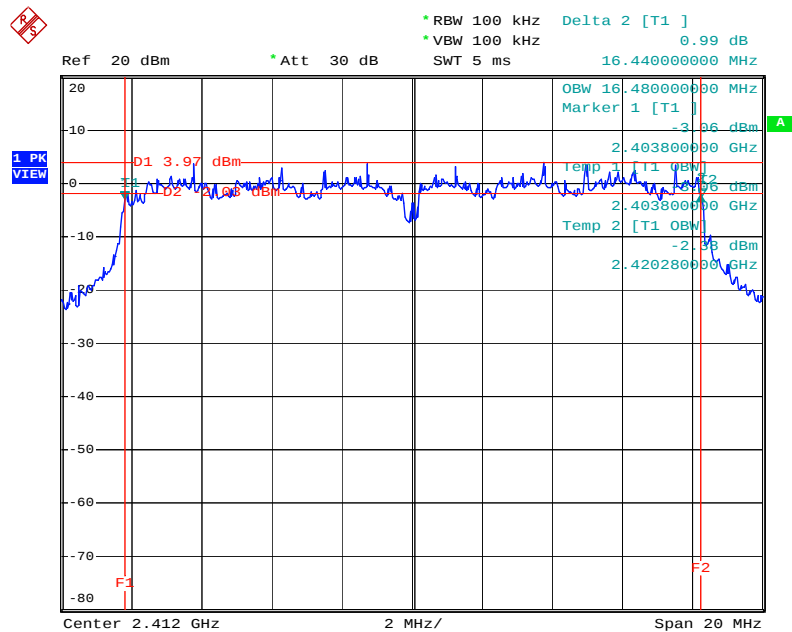
Date: 3.MAY.2010 18:22:26

6 dB Bandwidth Plot on Configuration IEEE 802.11b B2+B6 / 2462 MHz



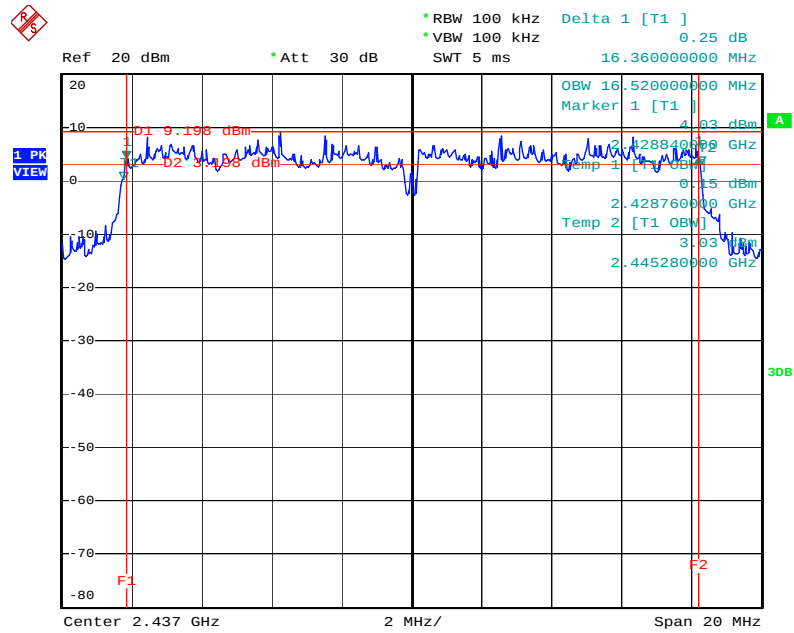
Date: 4.MAY.2010 13:58:25

6 dB Bandwidth Plot on Configuration IEEE 802.11g B2+B6 / 2412 MHz



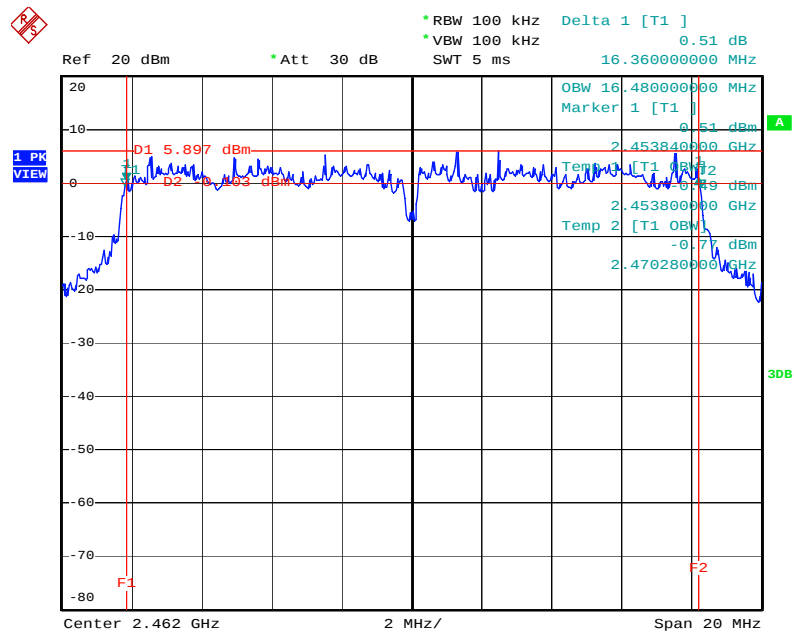
Date: 6.MAY.2010 17:44:13

6 dB Bandwidth Plot on Configuration IEEE 802.11g B2+B6 / 2437 MHz



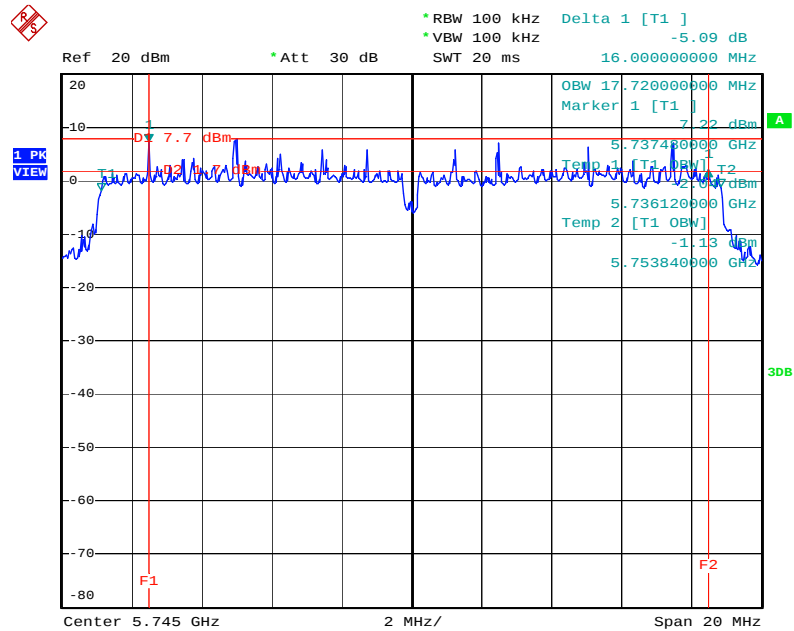
Date: 5.MAY.2010 10:35:57

6 dB Bandwidth Plot on Configuration IEEE 802.11g B2+B6 / 2462 MHz



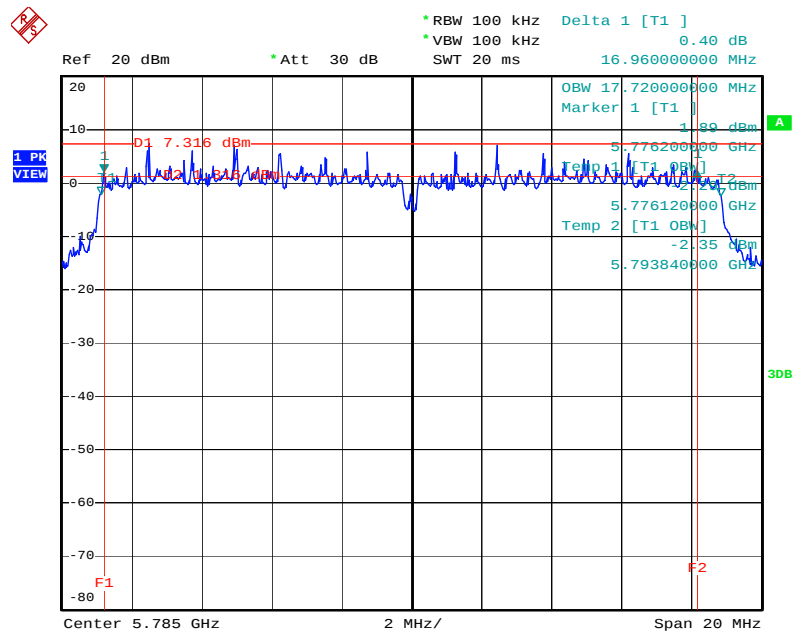
Date: 5.MAY.2010 10:33:36

6 dB Bandwidth Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5 / 5745 MHz



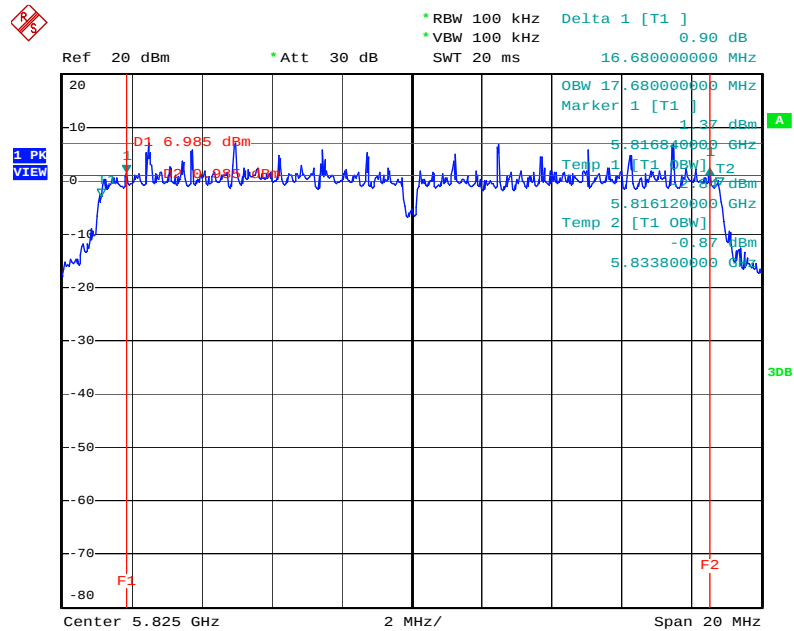
Date: 1.MAY.2010 12:32:09

6 dB Bandwidth Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5 / 5785MHz



Date: 1.MAY.2010 12:29:51

6 dB Bandwidth Plot on Configuration 11a IEEE 802.11n MCS8 20MHz A1+A5 / 5825 MHz



Date: 1.MAY.2010 12:27:46

4.5. Radiated 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 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 / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for peak

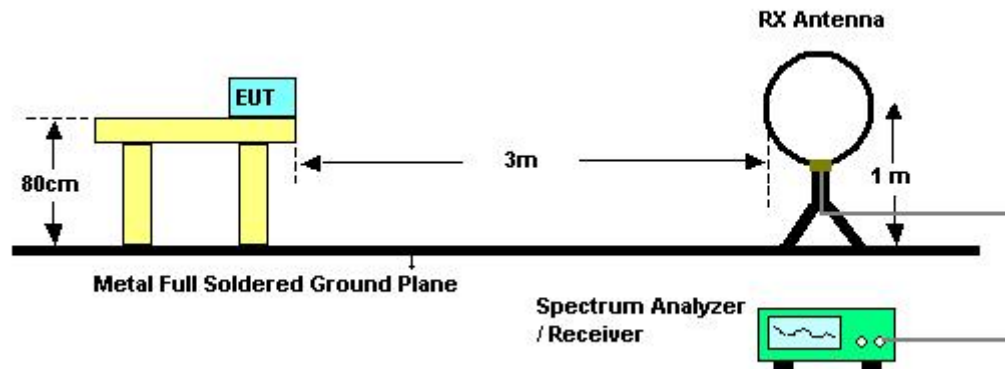
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

4.5.3. Test Procedures

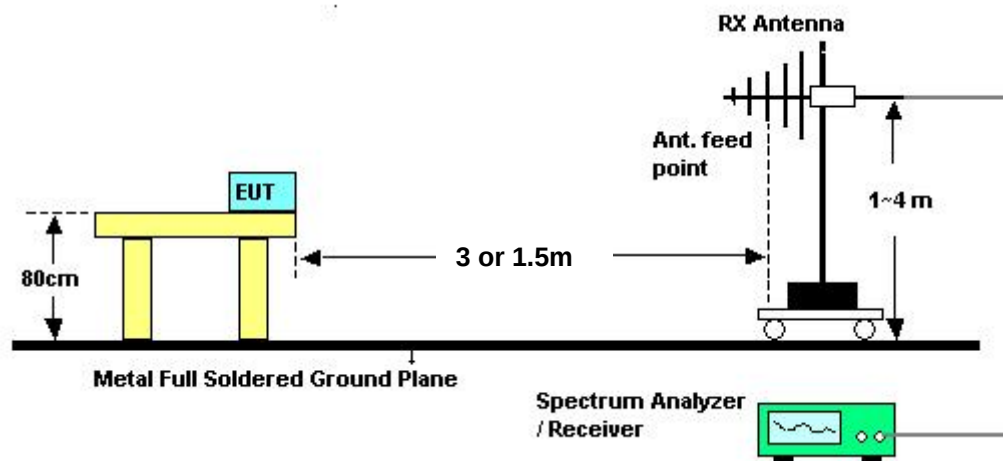
1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting 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.

4.5.4. Test Setup Layout

For radiated emissions below 30MHz



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].

4.5.5. 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. Results of Radiated Emissions (9kHz~30MHz)

Temperature	24°C	Humidity	56%
Test Engineer	Johnson Chang	Test Date	May 05, 2010

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

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

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

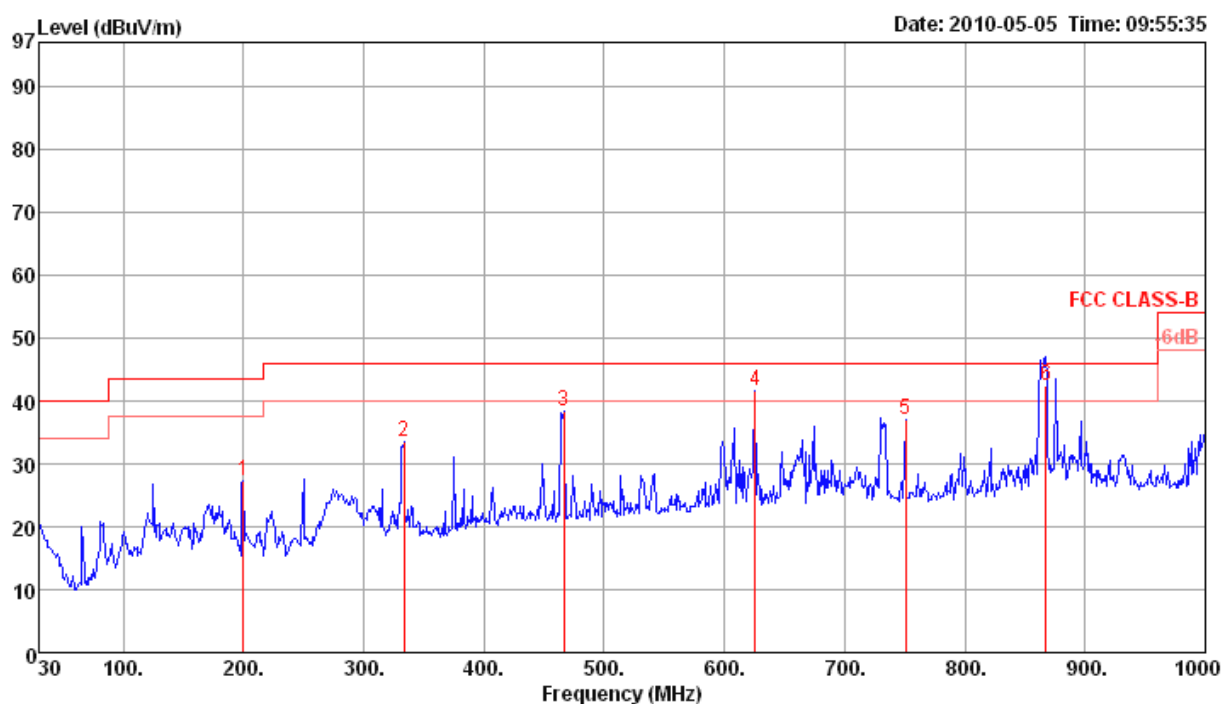
Limit line = specific limits (dBuV) + distance extrapolation factor.

4.5.8. Results of Radiated Emissions (30MHz~1GHz)

< For Ant. 1 >

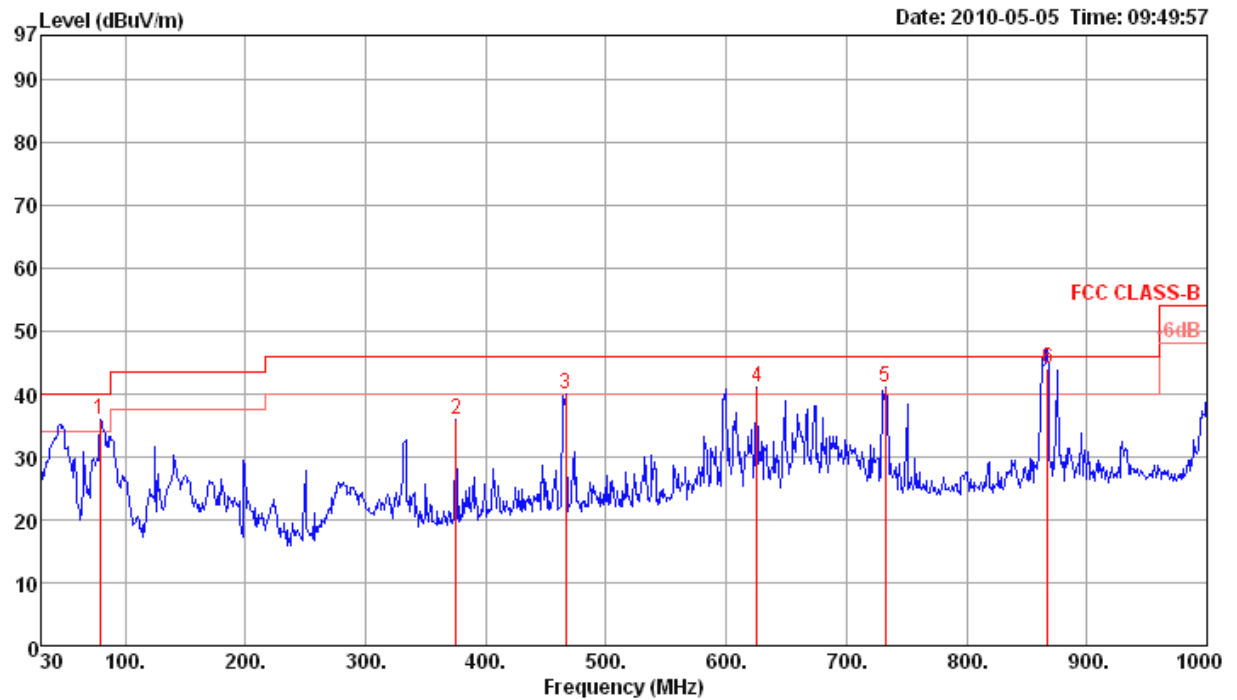
Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	Normal Link / Ant. 1

Horizontal



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	199.75	27.21	43.50	-16.29	43.56	1.70	27.10	9.05	0	100	Peak	HORIZONTAL
2	333.61	33.42	46.00	-12.58	44.10	2.17	27.13	14.28	0	100	Peak	HORIZONTAL
3	466.50	38.48	46.00	-7.52	46.68	2.63	27.93	17.10	0	100	Peak	HORIZONTAL
4 p	625.58	41.70	46.00	-4.30	47.87	3.05	28.07	18.85	0	100	Peak	HORIZONTAL
5	750.71	37.14	46.00	-8.86	42.01	3.50	27.80	19.43	0	100	Peak	HORIZONTAL
6 q	867.11	42.48	46.00	-3.52	46.20	3.47	27.47	20.28	193	100	QP	HORIZONTAL

Vertical



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1 p	79.47	36.01	40.00	-3.99	55.50	1.07	27.68	7.12	0	400	Peak	VERTICAL
2	375.32	35.91	46.00	-10.09	45.69	2.25	27.43	15.40	0	400	Peak	VERTICAL
3	466.50	39.97	46.00	-6.03	48.17	2.63	27.93	17.10	0	400	Peak	VERTICAL
4 l	625.58	41.19	46.00	-4.81	47.36	3.05	28.07	18.85	0	400	Peak	VERTICAL
5 l	732.28	40.99	46.00	-5.01	46.12	3.43	27.87	19.31	0	400	Peak	VERTICAL
6 q	867.11	43.98	46.00	-2.02	47.70	3.47	27.47	20.28	102	100	QP	VERTICAL

Note:

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

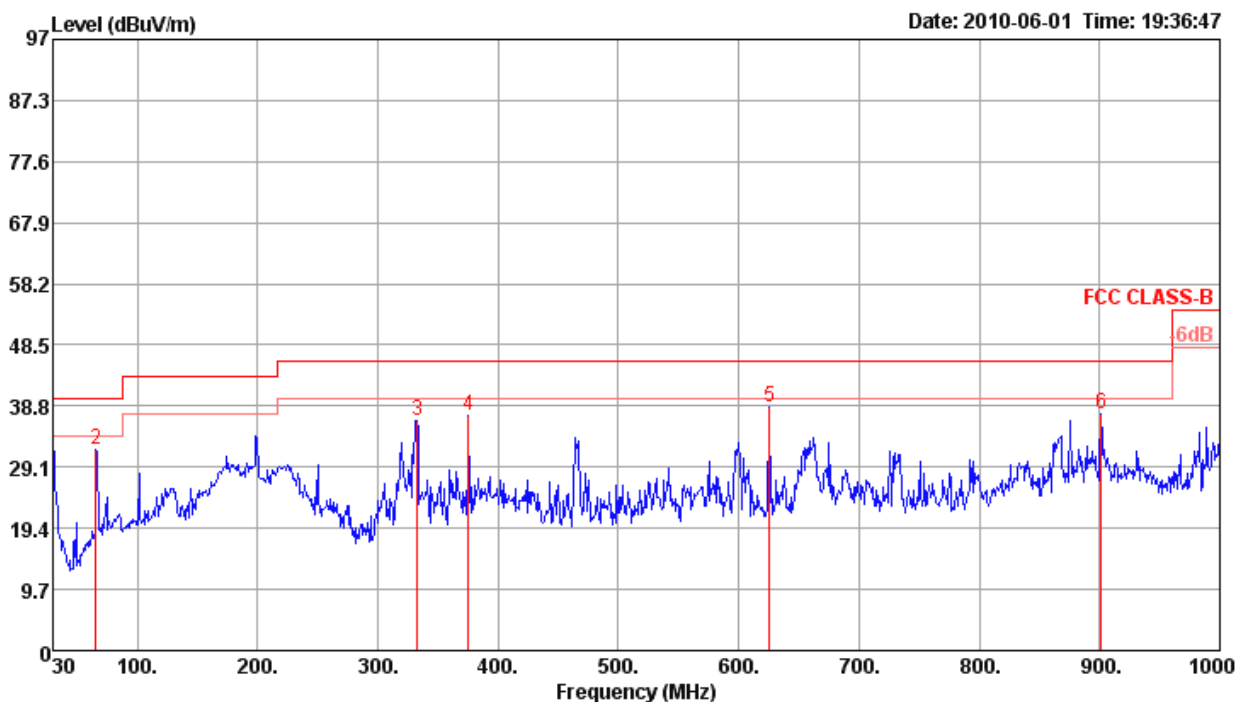
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

< For Ant. 5 >

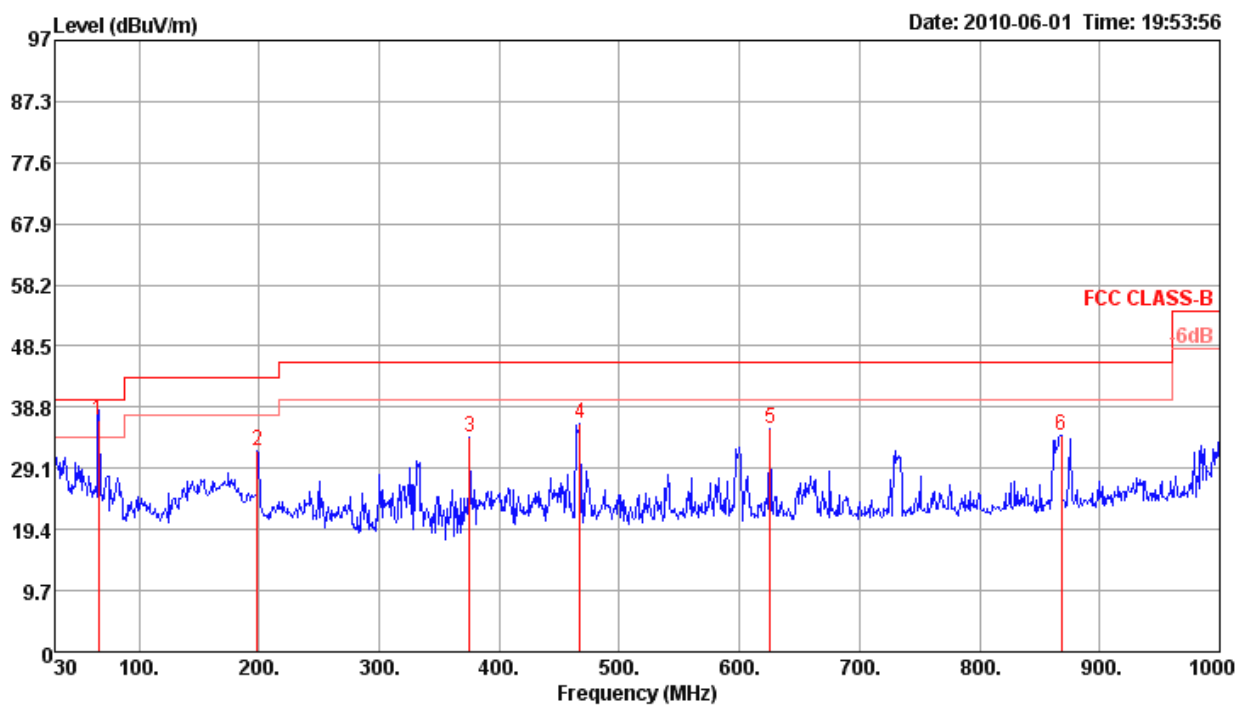
Temperature	24°C	Humidity	56%
Test Engineer	Sean Ku	Configurations	Normal Link / Ant. 5

Horizontal



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	30.00	33.61	40.00	-6.39	42.15	0.50	27.80	18.76	0	100	Peak	HORIZONTAL
2	65.89	31.98	40.00	-8.02	52.15	0.88	27.74	6.69	0	100	Peak	HORIZONTAL
3	332.64	36.42	46.00	-9.58	47.12	2.17	27.12	14.25	0	100	Peak	HORIZONTAL
4	375.32	37.17	46.00	-8.83	46.95	2.25	27.43	15.40	0	100	Peak	HORIZONTAL
5	625.58	38.76	46.00	-7.24	44.93	3.05	28.07	18.85	0	100	Peak	HORIZONTAL
6	901.06	37.53	46.00	-8.47	40.78	3.60	27.39	20.54	0	100	Peak	HORIZONTAL

Vertical



	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	66.52	36.71	40.00	-3.29	56.90	0.86	27.73	6.68	360	116	QP	VERTICAL
2	198.78	31.89	43.50	-11.61	48.06	1.69	27.11	9.25	0	400	Peak	VERTICAL
3	375.32	33.99	46.00	-12.01	43.77	2.25	27.43	15.40	0	400	Peak	VERTICAL
4	467.47	36.27	46.00	-9.73	44.46	2.63	27.94	17.12	0	400	Peak	VERTICAL
5	625.58	35.48	46.00	-10.52	41.65	3.05	28.07	18.85	0	400	Peak	VERTICAL
6	868.08	34.34	46.00	-11.66	38.04	3.47	27.46	20.29	0	400	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.

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

< For Ant. 1 >

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / Ant. 1 / B2+B6
Test Date	Mar. 31, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4823.99	30.36	54.00	-23.64	30.16	3.00	35.26	32.46	133	100	Average	HORIZONTAL
2	4824.01	43.26	74.00	-30.74	43.06	3.00	35.26	32.46	133	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4823.98	43.83	74.00	-30.17	43.63	3.00	35.26	32.46	222	100	Peak	VERTICAL
2	4823.99	30.24	54.00	-23.76	30.04	3.00	35.26	32.46	222	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / Ant. 1 / B2+B6
Test Date	Mar. 31, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4874.02	43.60	74.00	-30.40	43.18	3.01	35.15	32.56	151	100	Peak	HORIZONTAL
2	4874.03	30.20	54.00	-23.80	29.78	3.01	35.15	32.56	151	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.98	30.89	54.00	-23.11	30.47	3.01	35.15	32.56	92	100	Average	VERTICAL
2	4874.02	44.03	74.00	-29.97	43.61	3.01	35.15	32.56	92	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / Ant. 1 / B2+B6
Test Date	Mar. 31, 2010		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4874.02	43.60	74.00	-30.40	43.18	3.01	35.15	32.56	151	100	Peak	HORIZONTAL
2	4874.03	30.20	54.00	-23.80	29.78	3.01	35.15	32.56	151	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4923.99	30.28	54.00	-23.72	29.63	3.02	35.03	32.66	170	100	Average	VERTICAL
2	4924.00	44.31	74.00	-29.69	43.66	3.02	35.03	32.66	170	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Ant. 1 / B2+B6
Test Date	Mar. 31, 2010		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4843.98	29.66	54.00	-24.34	29.36	3.01	35.20	32.49	347	100	Average	HORIZONTAL
2	4844.02	42.64	74.00	-31.36	42.34	3.01	35.20	32.49	347	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4844.01	43.37	74.00	-30.63	43.07	3.01	35.20	32.49	172	100	Peak	VERTICAL
2	4844.03	29.60	54.00	-24.40	29.30	3.01	35.20	32.49	172	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Ant. 1 / B2+B6
Test Date	Mar. 31, 2010		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4874.00	43.29	74.00	-30.71	42.87	3.01	35.15	32.56	204	100	Peak	HORIZONTAL
2	4874.01	30.18	54.00	-23.82	29.76	3.01	35.15	32.56	204	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4874.00	43.34	74.00	-30.66	42.92	3.01	35.15	32.56	116	100	Peak	VERTICAL
2	4874.03	30.27	54.00	-23.73	29.85	3.01	35.15	32.56	116	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Ant. 1 / B2+B6
Test Date	Mar. 31, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4903.99	30.38	54.00	-23.62	29.82	3.02	35.09	32.63	118	100	Average	HORIZONTAL
2	4903.99	44.30	74.00	-29.70	43.74	3.02	35.09	32.63	118	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4904.02	44.17	74.00	-29.83	43.61	3.02	35.09	32.63	329	103	Peak	VERTICAL
2	4904.03	30.44	54.00	-23.56	29.88	3.02	35.09	32.63	329	103	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a IEEE 802.11n MCS8 20MHz CH 149 / Ant. 1 / A1+A5
Test Date	Apr. 02, 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	11489.56	55.98	60.00	-4.02	45.74	6.74	38.78	35.28	41	100	Average	HORIZONTAL
2	11494.88	68.47	80.00	-11.53	58.23	6.74	38.78	35.28	41	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	11489.50	52.94	60.00	-7.06	42.70	6.74	38.78	35.28	131	100	Average	VERTICAL
2	11492.20	65.74	80.00	-14.26	55.50	6.74	38.78	35.28	131	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a IEEE 802.11n MCS8 20MHz CH 157 / Ant. 1 / A1+A5
Test Date	Apr. 02, 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	11569.70	54.47	60.00	-5.53	44.19	6.75	38.83	35.30	36	100	Average	HORIZONTAL
2	11570.00	67.66	80.00	-12.34	57.38	6.75	38.83	35.30	36	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	11569.40	64.85	80.00	-15.15	54.57	6.75	38.83	35.30	138	100	Peak	VERTICAL
2	11570.00	52.52	60.00	-7.48	42.24	6.75	38.83	35.30	138	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	11a IEEE 802.11n MCS8 20MHz CH 165 / Ant. 1 / A1+A5
Test Date	Apr. 02, 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	11649.90	65.72	80.00	-14.28	55.38	6.78	38.86	35.30	38	100	Peak	HORIZONTAL
2	11651.10	51.64	60.00	-8.36	41.30	6.78	38.86	35.30	38	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	11648.64	48.87	60.00	-11.13	38.53	6.78	38.86	35.30	163	100	Average	VERTICAL
2	11650.04	62.61	80.00	-17.39	52.27	6.78	38.86	35.30	163	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	11a IEEE 802.11n MCS8 40MHz CH 151 / Ant. 1 / A1+A5
Test Date	Apr. 02, 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	deg	cm		
1	11509.88	52.75	60.00	-7.25	42.50	6.74	38.79	35.28	36	100 Average	HORIZONTAL
2	11509.96	66.16	80.00	-13.84	55.91	6.74	38.79	35.28	36	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	deg	cm		
1	11512.84	49.61	60.00	-10.39	39.36	6.74	38.79	35.28	134	100 Average	VERTICAL
2	11512.96	63.27	80.00	-16.73	53.02	6.74	38.79	35.28	134	100 Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	11a IEEE 802.11n MCS8 40MHz CH 159 / Ant. 1 / A1+A5
Test Date	Apr. 02, 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	11584.60	50.63	60.00	-9.37	40.34	6.76	38.83	35.30	39	100	Average	HORIZONTAL
2	11585.30	64.19	80.00	-15.81	53.90	6.76	38.83	35.30	39	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	11584.64	47.44	60.00	-12.56	37.15	6.76	38.83	35.30	163	100	Average	VERTICAL
2	11584.80	60.28	80.00	-19.72	49.99	6.76	38.83	35.30	163	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 1 / Ant. 1 / B2+B6
Test Date	Mar. 31, 2010		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4823.93	39.65	54.00	-14.35	39.45	3.00	35.26	32.46	187	100	Average	HORIZONTAL
2	4824.25	46.97	74.00	-27.03	46.77	3.00	35.26	32.46	187	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4823.92	42.23	54.00	-11.77	42.03	3.00	35.26	32.46	38	113	Average	VERTICAL
2	4823.94	48.36	74.00	-25.64	48.16	3.00	35.26	32.46	38	113	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 6 / Ant. 1 / B2+B6
Test Date	Mar. 31, 2010		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.93	46.93	54.00	-7.07	46.51	3.01	35.15	32.56	35	103	Average	HORIZONTAL
2	4873.96	50.79	74.00	-23.21	50.37	3.01	35.15	32.56	35	103	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.93	49.73	54.00	-4.27	49.31	3.01	35.15	32.56	39	111	Average	VERTICAL
2	4874.00	52.83	74.00	-21.17	52.41	3.01	35.15	32.56	39	111	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 11 / Ant. 1 / B2+B6
Test Date	Mar. 31, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4923.81	46.39	74.00	-27.61	45.74	3.02	35.03	32.66	31	100	Peak	HORIZONTAL
2	4923.99	38.21	54.00	-15.79	37.56	3.02	35.03	32.66	31	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4923.75	46.94	74.00	-27.06	46.29	3.02	35.03	32.66	43	110	Peak	VERTICAL
2	4923.93	38.90	54.00	-15.10	38.25	3.02	35.03	32.66	43	110	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 1 / Ant. 1 / B2+B6
Test Date	Mar. 31, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4824.02	43.28	74.00	-30.72	43.08	3.00	35.26	32.46	287	100	Peak	HORIZONTAL
2	4824.03	30.34	54.00	-23.66	30.14	3.00	35.26	32.46	287	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4824.02	42.96	74.00	-31.04	42.76	3.00	35.26	32.46	175	100	Peak	VERTICAL
2	4824.03	30.14	54.00	-23.86	29.94	3.00	35.26	32.46	175	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 6 / Ant. 1 / B2+B6
Test Date	Mar. 31, 2010		

Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.98	30.70	54.00	-23.30	30.28	3.01	35.15	32.56	282	100	Average	HORIZONTAL
2	4873.98	43.61	74.00	-30.39	43.19	3.01	35.15	32.56	282	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Preamp Factor	Antenna Factor	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4873.98	44.09	74.00	-29.91	43.67	3.01	35.15	32.56	102	100	Peak	VERTICAL
2	4874.03	31.33	54.00	-22.67	30.91	3.01	35.15	32.56	102	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 11 / Ant. 1 / B2+B6
Test Date	Mar. 31, 2010		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4924.01	30.30	54.00	-23.70	29.65	3.02	35.03	32.66	146	100	Average	HORIZONTAL
2	4924.02	44.61	74.00	-29.39	43.96	3.02	35.03	32.66	146	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	4924.02	44.08	74.00	-29.92	43.43	3.02	35.03	32.66	240	100	Peak	VERTICAL
2	4924.03	30.28	54.00	-23.72	29.63	3.02	35.03	32.66	240	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a CH 149 / Ant. 1 / A1+A5
Test Date	Apr. 02, 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	11490.60	58.64	60.00	-1.36	48.40	6.74	38.78	35.28	40	100	Average	HORIZONTAL
2	11490.60	71.22	80.00	-8.78	60.98	6.74	38.78	35.28	40	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	11485.40	68.07	80.00	-11.93	57.83	6.74	38.78	35.28	134	100	Peak	VERTICAL
2	11490.80	55.91	60.00	-4.09	45.67	6.74	38.78	35.28	134	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a CH 157 / Ant. 1 / A1+A5
Test Date	Apr. 02, 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	11566.00	69.59	80.00	-10.41	59.32	6.75	38.82	35.30	41	100	Peak	HORIZONTAL
2	11570.40	56.52	60.00	-3.48	46.24	6.75	38.83	35.30	41	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	11570.40	54.47	60.00	-5.53	44.19	6.75	38.83	35.30	138	100	Average	VERTICAL
2	11570.50	66.37	80.00	-13.63	56.09	6.75	38.83	35.30	138	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a CH 165 / Ant. 1 / A1+A5
Test Date	Apr. 02, 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	11650.80	64.06	80.00	-15.94	53.72	6.78	38.86	35.30	36	100	Peak	HORIZONTAL
2	11651.20	53.09	60.00	-6.91	42.75	6.78	38.86	35.30	36	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	11644.90	62.06	80.00	-17.94	51.72	6.78	38.86	35.30	162	100	Peak	VERTICAL
2	11650.60	50.17	60.00	-9.83	39.83	6.78	38.86	35.30	162	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 Ant. 2 >

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / Ant. 2 / B2+B6
Test Date	Apr. 26, 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	4824.00	43.49	74.00	-30.51	43.00	2.46	33.06	35.03	54	100	Peak	HORIZONTAL
2	4824.03	29.66	54.00	-24.34	29.17	2.46	33.06	35.03	54	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	4824.02	43.72	74.00	-30.28	43.23	2.46	33.06	35.03	146	100	Peak	VERTICAL
2	4824.03	29.83	54.00	-24.17	29.34	2.46	33.06	35.03	146	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / Ant. 2 / B2+B6
Test Date	Apr. 26, 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	4874.02	43.32	74.00	-30.68	42.72	2.47	33.16	35.03	116	100	Peak	HORIZONTAL
2	4874.03	30.16	54.00	-23.84	29.56	2.47	33.16	35.03	116	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	4873.98	31.40	54.00	-22.60	30.80	2.47	33.16	35.03	226	100	Average	VERTICAL
2	4873.99	43.52	74.00	-30.48	42.92	2.47	33.16	35.03	226	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / Ant. 2 / B2+B6
Test Date	Apr. 26, 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	4923.99	43.05	74.00	-30.95	42.33	2.47	33.26	35.01	195	100	Peak	HORIZONTAL
2	4924.03	29.44	54.00	-24.56	28.72	2.47	33.26	35.01	195	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	4923.99	43.28	74.00	-30.72	42.56	2.47	33.26	35.01	321	100	Peak	VERTICAL
2	4924.01	29.77	54.00	-24.23	29.05	2.47	33.26	35.01	321	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Ant. 2 / B2+B6
Test Date	Apr. 26, 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	4843.98	29.62	54.00	-24.38	29.10	2.46	33.09	35.03	190	100	Average	HORIZONTAL
2	4843.98	42.95	74.00	-31.05	42.43	2.46	33.09	35.03	190	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	4844.01	43.50	74.00	-30.50	42.98	2.46	33.09	35.03	333	100	Peak	VERTICAL
2	4844.01	29.62	54.00	-24.38	29.10	2.46	33.09	35.03	333	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Ant. 2 / B2+B6
Test Date	Apr. 26, 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	4873.98	29.86	54.00	-24.14	29.26	2.47	33.16	35.03	189	100	Average	HORIZONTAL
2	4874.01	43.82	74.00	-30.18	43.22	2.47	33.16	35.03	189	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	4873.98	30.24	54.00	-23.76	29.64	2.47	33.16	35.03	280	100	Average	VERTICAL
2	4874.00	43.71	74.00	-30.29	43.11	2.47	33.16	35.03	280	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Ant. 2 / B2+B6
Test Date	Apr. 26, 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	4903.98	29.78	54.00	-24.22	29.14	2.47	33.19	35.02	245	100	Average	HORIZONTAL
2	4904.02	43.85	74.00	-30.15	43.21	2.47	33.19	35.02	245	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	4903.98	29.80	54.00	-24.20	29.16	2.47	33.19	35.02	77	100	Average	VERTICAL
2	4903.98	43.92	74.00	-30.08	43.28	2.47	33.19	35.02	77	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a IEEE 802.11n MCS8 20MHz CH 149 / Ant. 2 / A1+A5
Test Date	Apr. 26, 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	11490.01	60.81	80.00	-19.19	52.07	5.24	38.78	35.28	302	100	Peak	HORIZONTAL
2	11490.03	46.14	60.00	-13.86	37.40	5.24	38.78	35.28	302	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	11489.97	55.43	60.00	-4.57	46.69	5.24	38.78	35.28	212	100	Average	VERTICAL
2	11489.98	68.43	80.00	-11.57	59.69	5.24	38.78	35.28	212	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a IEEE 802.11n MCS8 20MHz CH 157 / Ant. 2 / A1+A5
Test Date	Apr. 26, 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	11569.97	43.37	60.00	-16.63	34.59	5.25	38.83	35.30	355	100	Average	HORIZONTAL
2	11569.99	58.69	80.00	-21.31	49.91	5.25	38.83	35.30	355	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	11569.97	51.16	60.00	-8.84	42.38	5.25	38.83	35.30	216	100	Average	VERTICAL
2	11569.99	66.37	80.00	-13.63	57.59	5.25	38.83	35.30	216	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	11a IEEE 802.11n MCS8 20MHz CH 165 / Ant. 2 / A1+A5
Test Date	Apr. 26, 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	11649.97	40.27	60.00	-19.73	31.43	5.28	38.86	35.30	91	100	Average	HORIZONTAL
2	11650.01	52.55	80.00	-27.45	43.71	5.28	38.86	35.30	91	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	11649.97	44.72	60.00	-15.28	35.88	5.28	38.86	35.30	221	100	Average	VERTICAL
2	11650.02	60.20	80.00	-19.80	51.36	5.28	38.86	35.30	221	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	11a IEEE 802.11n MCS8 40MHz CH 151 / Ant. 2 / A1+A5
Test Date	Apr. 26, 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	11509.97	45.20	60.00	-14.80	36.45	5.24	38.79	35.28	64	100	Average	HORIZONTAL
2	11510.01	60.97	80.00	-19.03	52.22	5.24	38.79	35.28	64	100	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	11509.99	50.80	60.00	-9.20	42.05	5.24	38.79	35.28	224	100	Average	VERTICAL
2	11510.00	67.48	80.00	-12.52	58.73	5.24	38.79	35.28	224	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	11a IEEE 802.11n MCS8 40MHz CH 159 / Ant. 2 / A1+A5
Test Date	Apr. 26, 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	11590.01	40.90	60.00	-19.10	32.11	5.26	38.83	35.30	138	100	Average	HORIZONTAL
2	11590.02	53.67	80.00	-26.33	44.88	5.26	38.83	35.30	138	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	11589.97	46.77	60.00	-13.23	37.98	5.26	38.83	35.30	228	100	Average	VERTICAL
2	11589.98	63.06	80.00	-16.94	54.27	5.26	38.83	35.30	228	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 1 / Ant. 2 / B2+B6
Test Date	Apr. 26, 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	4823.91	34.22	54.00	-19.78	33.73	2.46	33.06	35.03	217	135	Average	HORIZONTAL
2	4824.14	44.89	74.00	-29.11	44.40	2.46	33.06	35.03	217	135	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	4823.94	36.86	54.00	-17.14	36.37	2.46	33.06	35.03	240	100	Average	VERTICAL
2	4824.22	45.77	74.00	-28.23	45.28	2.46	33.06	35.03	240	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 6 / Ant. 2 / B2+B6
Test Date	Apr. 26, 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	4873.94	37.32	54.00	-16.68	36.72	2.47	33.16	35.03	216	130	Average	HORIZONTAL
2	4874.12	46.03	74.00	-27.97	45.43	2.47	33.16	35.03	216	130	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	4873.87	47.45	74.00	-26.55	46.85	2.47	33.16	35.03	161	140	Peak	VERTICAL
2	4873.89	40.37	54.00	-13.63	39.77	2.47	33.16	35.03	161	140	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 11 / Ant. 2 / B2+B6
Test Date	Apr. 26, 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	4923.89	37.10	54.00	-16.90	36.38	2.47	33.26	35.01	222	120	Average	HORIZONTAL
2	4924.22	45.28	74.00	-28.72	44.56	2.47	33.26	35.01	222	120	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	4923.79	46.90	74.00	-27.10	46.18	2.47	33.26	35.01	174	124	Peak	VERTICAL
2	4923.88	40.16	54.00	-13.84	39.44	2.47	33.26	35.01	174	124	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 1 / Ant. 2 / B2+B6
Test Date	Apr. 26, 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	4823.99	29.59	54.00	-24.41	29.10	2.46	33.06	35.03	230	100	Average	HORIZONTAL
2	4824.01	43.36	74.00	-30.64	42.87	2.46	33.06	35.03	230	100	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	4823.99	43.05	74.00	-30.95	42.56	2.46	33.06	35.03	344	100	Peak	VERTICAL
2	4823.99	29.83	54.00	-24.17	29.34	2.46	33.06	35.03	344	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 6 / Ant. 2 / B2+B6
Test Date	Apr. 26, 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	4873.99	43.37	74.00	-30.63	42.77	2.47	33.16	35.03	135	100	Peak	HORIZONTAL
2	4873.99	30.05	54.00	-23.95	29.45	2.47	33.16	35.03	135	100	Average	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	4873.98	31.34	54.00	-22.66	30.74	2.47	33.16	35.03	218	100	Average	VERTICAL
2	4873.99	44.23	74.00	-29.77	43.63	2.47	33.16	35.03	218	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 11 / Ant. 2 / B2+B6
Test Date	Apr. 26, 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	4924.01	29.68	54.00	-24.32	28.96	2.47	33.26	35.01	265	100	Average	HORIZONTAL
2	4924.02	43.14	74.00	-30.86	42.42	2.47	33.26	35.01	265	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	4923.98	44.05	74.00	-29.95	43.33	2.47	33.26	35.01	167	100	Peak	VERTICAL
2	4923.99	30.10	54.00	-23.90	29.38	2.47	33.26	35.01	167	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a CH 149 / Ant. 2 / A1+A5
Test Date	Apr. 26, 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	11489.97	44.73	60.00	-15.27	35.99	5.24	38.78	35.28	51	100	Average	HORIZONTAL
2	11489.99	60.46	80.00	-19.54	51.72	5.24	38.78	35.28	51	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	11489.97	54.71	60.00	-5.29	45.97	5.24	38.78	35.28	214	100	Average	VERTICAL
2	11489.98	67.82	80.00	-12.18	59.08	5.24	38.78	35.28	214	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a CH 157 / Ant. 2 / A1+A5
Test Date	Apr. 26, 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	11570.01	56.17	80.00	-23.83	47.39	5.25	38.83	35.30	87	100	Peak	HORIZONTAL
2	11570.03	42.02	60.00	-17.98	33.24	5.25	38.83	35.30	87	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	11569.97	50.55	60.00	-9.45	41.77	5.25	38.83	35.30	231	100	Average	VERTICAL
2	11569.99	65.93	80.00	-14.07	57.15	5.25	38.83	35.30	231	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a CH 165 / Ant. 2 / A1+A5
Test Date	Apr. 26, 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	11649.97	45.68	60.00	-14.32	36.84	5.28	38.86	35.30	133	100	Average	HORIZONTAL
2	11650.02	60.47	80.00	-19.53	51.63	5.28	38.86	35.30	133	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	11649.97	45.40	60.00	-14.60	36.56	5.28	38.86	35.30	214	100	Average	VERTICAL
2	11649.99	58.99	80.00	-21.01	50.15	5.28	38.86	35.30	214	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 Ant. 3 >

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / Ant. 3 / B2+B6
Test Date	Apr. 28, 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	4823.98	43.12	74.00	-30.88	42.63	2.46	33.06	35.03	198	100	Peak	HORIZONTAL
2	4824.03	29.47	54.00	-24.53	28.98	2.46	33.06	35.03	198	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	4823.98	43.91	74.00	-30.09	43.42	2.46	33.06	35.03	312	100	Peak	VERTICAL
2	4823.99	29.51	54.00	-24.49	29.02	2.46	33.06	35.03	312	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / Ant. 3 / B2+B6
Test Date	Apr. 28, 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	4873.99	29.33	54.00	-24.67	28.73	2.47	33.16	35.03	138	100	Average	HORIZONTAL
2	4874.00	43.09	74.00	-30.91	42.49	2.47	33.16	35.03	138	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	4874.01	29.46	54.00	-24.54	28.86	2.47	33.16	35.03	240	100	Average	VERTICAL
2	4874.01	43.33	74.00	-30.67	42.73	2.47	33.16	35.03	240	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / Ant. 3 / B2+B6
Test Date	Apr. 28, 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	4923.98	30.01	54.00	-23.99	29.29	2.47	33.26	35.01	190	100	Average	HORIZONTAL
2	4924.02	43.66	74.00	-30.34	42.94	2.47	33.26	35.01	190	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	4923.98	30.01	54.00	-23.99	29.29	2.47	33.26	35.01	122	100	Average	VERTICAL
2	4924.02	43.20	74.00	-30.80	42.48	2.47	33.26	35.01	122	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Ant. 3 / B2+B6
Test Date	Apr. 28, 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	4843.98	43.40	74.00	-30.60	42.88	2.46	33.09	35.03	130	100	Peak	HORIZONTAL
2	4844.03	29.59	54.00	-24.41	29.07	2.46	33.09	35.03	130	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	4843.98	43.21	74.00	-30.79	42.69	2.46	33.09	35.03	279	100	Peak	VERTICAL
2	4844.03	29.58	54.00	-24.42	29.06	2.46	33.09	35.03	279	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Ant. 3 / B2+B6
Test Date	Apr. 28, 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	4873.98	43.40	74.00	-30.60	42.80	2.47	33.16	35.03	257	100	Peak	HORIZONTAL
2	4873.99	29.41	54.00	-24.59	28.81	2.47	33.16	35.03	257	100	Average	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	4874.01	43.29	74.00	-30.71	42.69	2.47	33.16	35.03	178	100	Peak	VERTICAL
2	4874.03	29.40	54.00	-24.60	28.80	2.47	33.16	35.03	178	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Ant. 3 / B2+B6
Test Date	Apr. 28, 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	4904.01	43.55	74.00	-30.45	42.91	2.47	33.19	35.02	131	100	Peak	HORIZONTAL
2	4904.03	29.83	54.00	-24.17	29.19	2.47	33.19	35.02	131	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	4903.98	43.16	74.00	-30.84	42.52	2.47	33.19	35.02	226	100	Peak	VERTICAL
2	4904.03	29.83	54.00	-24.17	29.19	2.47	33.19	35.02	226	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a IEEE 802.11n MCS8 20MHz CH 149 / Ant. 3 / A1+A5
Test Date	Apr. 28, 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	11490.01	46.94	60.00	-13.06	38.20	5.24	38.78	35.28	154	100	Average	HORIZONTAL
2	11490.02	58.67	80.00	-21.33	49.93	5.24	38.78	35.28	154	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	11489.99	55.32	60.00	-4.68	46.58	5.24	38.78	35.28	106	100	Average	VERTICAL
2	11490.00	67.25	80.00	-12.75	58.51	5.24	38.78	35.28	106	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a IEEE 802.11n MCS8 20MHz CH 157 / Ant. 3 / A1+A5
Test Date	Apr. 28, 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	11570.00	58.75	80.00	-21.25	49.97	5.25	38.83	35.30	156	104	Peak	HORIZONTAL
2	11570.02	46.14	60.00	-13.86	37.36	5.25	38.83	35.30	156	104	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	11570.00	66.73	80.00	-13.27	57.95	5.25	38.83	35.30	106	100	Peak	VERTICAL
2	11570.02	53.75	60.00	-6.25	44.97	5.25	38.83	35.30	106	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	11a IEEE 802.11n MCS8 20MHz CH 165 / Ant. 3 / A1+A5
Test Date	Apr. 28, 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	11649.99	42.77	60.00	-17.23	33.93	5.28	38.86	35.30	156	101	Average	HORIZONTAL
2	11650.01	55.47	80.00	-24.53	46.63	5.28	38.86	35.30	156	101	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	11650.00	49.89	60.00	-10.11	41.05	5.28	38.86	35.30	106	100	Average	VERTICAL
2	11650.01	62.69	80.00	-17.31	53.85	5.28	38.86	35.30	106	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	11a IEEE 802.11n MCS8 40MHz CH 151 / Ant. 3 / A1+A5
Test Date	Apr. 28, 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	11510.01	59.20	80.00	-20.80	50.45	5.24	38.79	35.28	72	100	Peak	HORIZONTAL
2	11510.01	44.16	60.00	-15.84	35.41	5.24	38.79	35.28	72	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	11510.00	51.92	60.00	-8.08	43.17	5.24	38.79	35.28	105	100	Average	VERTICAL
2	11510.01	66.07	80.00	-13.93	57.32	5.24	38.79	35.28	105	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	11a IEEE 802.11n MCS8 40MHz CH 159 / Ant. 3 / A1+A5
Test Date	Apr. 28, 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	11590.01	43.39	60.00	-16.61	34.60	5.26	38.83	35.30	94	100	Average	HORIZONTAL
2	11590.01	57.38	80.00	-22.62	48.59	5.26	38.83	35.30	94	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	11590.00	64.05	80.00	-15.95	55.26	5.26	38.83	35.30	101	100	Peak	VERTICAL
2	11590.01	49.62	60.00	-10.38	40.83	5.26	38.83	35.30	101	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 1 / Ant. 3 / B2+B6
Test Date	Apr. 28, 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	4823.93	31.54	54.00	-22.46	31.05	2.46	33.06	35.03	244	170	Average	HORIZONTAL
2	4824.17	43.81	74.00	-30.19	43.32	2.46	33.06	35.03	244	170	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	4823.89	33.75	54.00	-20.25	33.26	2.46	33.06	35.03	82	126	Average	VERTICAL
2	4823.98	44.36	74.00	-29.64	43.87	2.46	33.06	35.03	82	126	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 6 / Ant. 3 / B2+B6
Test Date	Apr. 28, 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	4873.93	34.61	54.00	-19.39	34.01	2.47	33.16	35.03	244	164	Average	HORIZONTAL
2	4874.22	45.88	74.00	-28.12	45.28	2.47	33.16	35.03	244	164	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	4873.98	46.45	74.00	-27.55	45.85	2.47	33.16	35.03	81	153	Peak	VERTICAL
2	4873.99	36.66	54.00	-17.34	36.06	2.47	33.16	35.03	81	153	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 11 / Ant. 3 / B2+B6
Test Date	Apr. 28, 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	4923.83	44.04	74.00	-29.96	43.32	2.47	33.26	35.01	246	165	Peak	HORIZONTAL
2	4923.96	32.29	54.00	-21.71	31.57	2.47	33.26	35.01	246	165	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	4923.72	44.86	74.00	-29.14	44.14	2.47	33.26	35.01	134	172	Peak	VERTICAL
2	4923.98	34.99	54.00	-19.01	34.27	2.47	33.26	35.01	134	172	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 1 / Ant. 3 / B2+B6
Test Date	Apr. 28, 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	4823.98	43.07	74.00	-30.93	42.58	2.46	33.06	35.03	285	100	Peak	HORIZONTAL
2	4824.03	29.45	54.00	-24.55	28.96	2.46	33.06	35.03	285	100	Average	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	4823.98	43.66	74.00	-30.34	43.17	2.46	33.06	35.03	114	100	Peak	VERTICAL
2	4823.99	29.47	54.00	-24.53	28.98	2.46	33.06	35.03	114	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 6 / Ant. 3 / B2+B6
Test Date	Apr. 28, 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	4874.02	43.51	74.00	-30.49	42.91	2.47	33.16	35.03	182	100	Peak	HORIZONTAL
2	4874.03	29.29	54.00	-24.71	28.69	2.47	33.16	35.03	182	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	4873.99	29.50	54.00	-24.50	28.90	2.47	33.16	35.03	91	100	Average	VERTICAL
2	4874.02	43.22	74.00	-30.78	42.62	2.47	33.16	35.03	91	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 11 / Ant. 3 / B2+B6
Test Date	Apr. 28, 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	4924.01	43.73	74.00	-30.27	43.01	2.47	33.26	35.01	123	100	Peak	HORIZONTAL
2	4924.01	30.00	54.00	-24.00	29.28	2.47	33.26	35.01	123	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	4923.98	30.02	54.00	-23.98	29.30	2.47	33.26	35.01	219	100	Average	VERTICAL
2	4924.02	43.98	74.00	-30.02	43.26	2.47	33.26	35.01	219	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a CH 149 / Ant. 3 / A1+A5
Test Date	Apr. 28, 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	11490.00	48.61	60.00	-11.39	39.87	5.24	38.78	35.28	95	100	Average	HORIZONTAL
2	11490.01	61.79	80.00	-18.21	53.05	5.24	38.78	35.28	95	100	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	11490.00	67.10	80.00	-12.90	58.36	5.24	38.78	35.28	131	100	Peak	VERTICAL
2	11490.02	56.11	60.00	-3.89	47.37	5.24	38.78	35.28	131	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a CH 157 / Ant. 3 / A1+A5
Test Date	Apr. 28, 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	11569.98	60.37	80.00	-19.63	51.59	5.25	38.83	35.30	97	100	Peak	HORIZONTAL
2	11570.02	47.30	60.00	-12.70	38.52	5.25	38.83	35.30	97	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	11570.00	53.90	60.00	-6.10	45.12	5.25	38.83	35.30	105	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a CH 165 / Ant. 3 / A1+A5
Test Date	Apr. 28, 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	11650.00	57.83	80.00	-22.17	48.99	5.28	38.86	35.30	96	100	Peak	HORIZONTAL
2	11650.01	44.64	60.00	-15.36	35.80	5.28	38.86	35.30	96	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	11650.00	64.17	80.00	-15.83	55.33	5.28	38.86	35.30	105	100	Peak	VERTICAL
2	11650.01	51.03	60.00	-8.97	42.19	5.28	38.86	35.30	105	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 Ant. 4 >

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / Ant. 4 / B2+B6
Test Date	Apr. 29, 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	4823.98	43.55	74.00	-30.45	43.06	2.46	33.06	35.03	241	100	Peak	HORIZONTAL
2	4824.03	29.70	54.00	-24.30	29.21	2.46	33.06	35.03	241	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	4824.00	43.37	74.00	-30.63	42.88	2.46	33.06	35.03	108	100	Peak	VERTICAL
2	4824.03	29.73	54.00	-24.27	29.24	2.46	33.06	35.03	108	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / Ant. 4 / B2+B6
Test Date	Apr. 29, 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	4874.01	43.78	74.00	-30.22	43.18	2.47	33.16	35.03	140	100	Peak	HORIZONTAL
2	4874.03	29.75	54.00	-24.25	29.15	2.47	33.16	35.03	140	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	4874.00	43.66	74.00	-30.34	43.06	2.47	33.16	35.03	269	100	Peak	VERTICAL
2	4874.03	29.79	54.00	-24.21	29.19	2.47	33.16	35.03	269	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / Ant. 4 / B2+B6
Test Date	Apr. 29, 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	4923.99	30.01	54.00	-23.99	29.29	2.47	33.26	35.01	247	100	Average	HORIZONTAL
2	4924.02	43.79	74.00	-30.21	43.07	2.47	33.26	35.01	247	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	4924.01	30.01	54.00	-23.99	29.29	2.47	33.26	35.01	169	100	Average	VERTICAL
2	4924.01	43.64	74.00	-30.36	42.92	2.47	33.26	35.01	169	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Ant. 4 / B2+B6
Test Date	Apr. 29, 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	4844.01	43.18	74.00	-30.82	42.66	2.46	33.09	35.03	140	100	Peak	HORIZONTAL
2	4844.03	29.86	54.00	-24.14	29.34	2.46	33.09	35.03	140	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	4843.98	29.87	54.00	-24.13	29.35	2.46	33.09	35.03	228	100	Average	VERTICAL
2	4844.00	43.27	74.00	-30.73	42.75	2.46	33.09	35.03	228	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Ant. 4 / B2+B6
Test Date	Apr. 29, 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	4874.00	43.39	74.00	-30.61	42.79	2.47	33.16	35.03	276	100	Peak	HORIZONTAL
2	4874.03	29.70	54.00	-24.30	29.10	2.47	33.16	35.03	276	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	4874.01	42.99	74.00	-31.01	42.39	2.47	33.16	35.03	173	100	Peak	VERTICAL
2	4874.03	29.71	54.00	-24.29	29.11	2.47	33.16	35.03	173	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Ant. 4 / B2+B6
Test Date	Apr. 29, 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	4904.00	43.38	74.00	-30.62	42.74	2.47	33.19	35.02	125	100	Peak	HORIZONTAL
2	4904.01	29.71	54.00	-24.29	29.07	2.47	33.19	35.02	125	100	Average	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	4904.00	43.44	74.00	-30.56	42.80	2.47	33.19	35.02	27	100	Peak	VERTICAL
2	4904.01	29.72	54.00	-24.28	29.08	2.47	33.19	35.02	27	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a IEEE 802.11n MCS8 20MHz CH 149 / Ant. 4 / A1+A5
Test Date	Apr. 29, 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	11490.00	64.05	80.00	-15.95	55.31	5.24	38.78	35.28	340	100	Peak	HORIZONTAL
2	11490.03	49.22	60.00	-10.78	40.48	5.24	38.78	35.28	340	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	11489.98	69.50	80.00	-10.50	60.76	5.24	38.78	35.28	16	100	Peak	VERTICAL
2	11490.03	56.04	60.00	-3.96	47.30	5.24	38.78	35.28	16	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a IEEE 802.11n MCS8 20MHz CH 157 / Ant. 4 / A1+A5
Test Date	Apr. 29, 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	11569.97	44.94	60.00	-15.06	36.16	5.25	38.83	35.30	84	100	Average	HORIZONTAL
2	11569.99	60.43	80.00	-19.57	51.65	5.25	38.83	35.30	84	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	11569.97	49.30	60.00	-10.70	40.52	5.25	38.83	35.30	216	100	Average	VERTICAL
2	11570.00	65.38	80.00	-14.62	56.60	5.25	38.83	35.30	216	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	11a IEEE 802.11n MCS8 20MHz CH 165 / Ant. 4 / A1+A5
Test Date	Apr. 29, 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	11649.97	42.61	60.00	-17.39	33.77	5.28	38.86	35.30	178	100	Average	HORIZONTAL
2	11650.01	56.33	80.00	-23.67	47.49	5.28	38.86	35.30	178	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	11649.97	51.05	60.00	-8.95	42.21	5.28	38.86	35.30	28	100	Average	VERTICAL
2	11649.99	64.53	80.00	-15.47	55.69	5.28	38.86	35.30	28	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	11a IEEE 802.11n MCS8 40MHz CH 151 / Ant. 4 / A1+A5
Test Date	Apr. 29, 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	11509.97	43.72	60.00	-16.28	34.97	5.24	38.79	35.28	56	100	Average	HORIZONTAL
2	11509.98	57.91	80.00	-22.09	49.16	5.24	38.79	35.28	56	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	11509.97	50.98	60.00	-9.02	42.23	5.24	38.79	35.28	280	100	Average	VERTICAL
2	11509.99	67.85	80.00	-12.15	59.10	5.24	38.79	35.28	280	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	11a IEEE 802.11n MCS8 40MHz CH 159 / Ant. 4 / A1+A5
Test Date	Apr. 29, 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	deg	cm		
1	11589.99	42.74	60.00	-17.26	33.95	5.26	38.83	35.30	226	100 Average	HORIZONTAL
2	11589.99	55.90	80.00	-24.10	47.11	5.26	38.83	35.30	226	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	deg	cm		
1	11589.98	63.28	80.00	-16.72	54.49	5.26	38.83	35.30	65	100 Peak	VERTICAL
2	11590.03	48.54	60.00	-11.46	39.75	5.26	38.83	35.30	65	100 Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 1 / Ant. 4 / B2+B6
Test Date	Apr. 29, 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	4823.99	31.80	54.00	-22.20	31.31	2.46	33.06	35.03	224	100	Average	HORIZONTAL
2	4824.10	44.37	74.00	-29.63	43.88	2.46	33.06	35.03	224	100	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	4823.85	45.56	74.00	-28.44	45.07	2.46	33.06	35.03	134	142	Peak	VERTICAL
2	4824.01	35.29	54.00	-18.71	34.80	2.46	33.06	35.03	134	142	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 6 / Ant. 4 / B2+B6
Test Date	Apr. 29, 2010		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	deg	cm		
1	4873.92	45.15	74.00	-28.85	44.55	2.47	33.16	35.03	225	100	Peak	HORIZONTAL
2	4873.99	34.02	54.00	-19.98	33.42	2.47	33.16	35.03	225	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	deg	cm		
1	4873.75	46.74	74.00	-27.26	46.14	2.47	33.16	35.03	136	100	Peak	VERTICAL
2	4874.05	38.17	54.00	-15.83	37.57	2.47	33.16	35.03	136	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 11 / Ant. 4 / B2+B6
Test Date	Apr. 29, 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	4923.98	33.06	54.00	-20.94	32.34	2.47	33.26	35.01	236	115	Average	HORIZONTAL
2	4924.13	44.74	74.00	-29.26	44.02	2.47	33.26	35.01	236	115	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	4923.90	45.68	74.00	-28.32	44.96	2.47	33.26	35.01	137	136	Peak	VERTICAL
2	4923.96	35.50	54.00	-18.50	34.78	2.47	33.26	35.01	137	136	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 1 / Ant. 4 / B2+B6
Test Date	Apr. 29, 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	4823.98	29.75	54.00	-24.25	29.26	2.46	33.06	35.03	57	100	Average	HORIZONTAL
2	4824.01	43.05	74.00	-30.95	42.56	2.46	33.06	35.03	57	100	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	4823.98	29.74	54.00	-24.26	29.25	2.46	33.06	35.03	177	100	Average	VERTICAL
2	4824.00	43.44	74.00	-30.56	42.95	2.46	33.06	35.03	177	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 6 / Ant. 4 / B2+B6
Test Date	Apr. 29, 2010		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	deg	cm		
1	4874.00	44.16	74.00	-29.84	43.56	2.47	33.16	35.03	167	100	Peak	HORIZONTAL
2	4874.03	29.71	54.00	-24.29	29.11	2.47	33.16	35.03	167	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	deg	cm		
1	4873.99	43.10	74.00	-30.90	42.50	2.47	33.16	35.03	266	100	Peak	VERTICAL
2	4873.99	29.83	54.00	-24.17	29.23	2.47	33.16	35.03	266	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 11 / Ant. 4 / B2+B6
Test Date	Apr. 29, 2010		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos		
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	deg	cm	Remark	Pol/Phase
1	4923.98	29.99	54.00	-24.01	29.27	2.47	33.26	35.01	79	100	Average	HORIZONTAL
2	4924.02	43.53	74.00	-30.47	42.81	2.47	33.26	35.01	79	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos		
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor	deg	cm	Remark	Pol/Phase
1	4924.01	29.97	54.00	-24.03	29.25	2.47	33.26	35.01	316	100	Average	VERTICAL
2	4924.02	43.51	74.00	-30.49	42.79	2.47	33.26	35.01	316	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a CH 149 / Ant. 4 / A1+A5
Test Date	Apr. 29, 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	11489.99	56.27	80.00	-23.73	47.53	5.24	38.78	35.28	200	100	Peak	HORIZONTAL
2	11490.03	42.60	60.00	-17.40	33.86	5.24	38.78	35.28	200	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	11489.98	66.13	80.00	-13.87	57.39	5.24	38.78	35.28	119	100	Peak	VERTICAL
2	11489.99	51.27	60.00	-8.73	42.53	5.24	38.78	35.28	119	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a CH 157 / Ant. 4 / A1+A5
Test Date	Apr. 29, 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	11569.98	59.69	80.00	-20.31	50.91	5.25	38.83	35.30	302	100	Peak	HORIZONTAL
2	11570.03	45.64	60.00	-14.36	36.86	5.25	38.83	35.30	302	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	11570.00	64.07	80.00	-15.93	55.29	5.25	38.83	35.30	173	100	Peak	VERTICAL
2	11570.03	50.47	60.00	-9.53	41.69	5.25	38.83	35.30	173	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a CH 165 / Ant. 4 / A1+A5
Test Date	Apr. 29, 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	11649.99	57.89	80.00	-22.11	49.05	5.28	38.86	35.30	127	100	Peak	HORIZONTAL
2	11650.03	43.32	60.00	-16.68	34.48	5.28	38.86	35.30	127	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	5272.40	120.04	94.00	26.04	83.53	2.63	33.88	0.00	305	100	Peak	VERTICAL
2	5277.60	108.48	74.00	34.48	71.97	2.63	33.88	0.00	305	100	Average	VERTICAL
3	5360.80	59.20	60.00	-0.80	22.50	2.67	34.03	0.00	305	100	Average	VERTICAL
4	5360.80	72.48	80.00	-7.52	35.78	2.67	34.03	0.00	305	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 Ant. 5 >

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a IEEE 802.11n MCS8 20MHz CH 149 / Ant. 5 / A1+A5
Test Date	Apr. 30, 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	11489.97	50.12	60.00	-9.88	41.38	5.24	38.78	35.28	300	100	Average	HORIZONTAL
2	11489.99	62.84	80.00	-17.16	54.10	5.24	38.78	35.28	300	100	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	11489.97	54.60	60.00	-5.40	45.86	5.24	38.78	35.28	83	100	Average	VERTICAL
2	11490.00	67.44	80.00	-12.56	58.70	5.24	38.78	35.28	83	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a IEEE 802.11n MCS8 20MHz CH 157 / Ant. 5 / A1+A5
Test Date	Apr. 30, 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	11570.00	62.98	80.00	-17.02	54.20	5.25	38.83	35.30	114	100	Peak	HORIZONTAL
2	11570.03	46.88	60.00	-13.12	38.10	5.25	38.83	35.30	114	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	11569.97	51.31	60.00	-8.69	42.53	5.25	38.83	35.30	321	100	Average	VERTICAL
2	11569.99	65.51	80.00	-14.49	56.73	5.25	38.83	35.30	321	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	11a IEEE 802.11n MCS8 20MHz CH 165 / Ant. 5 / A1+A5
Test Date	Apr. 30, 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	11649.97	44.58	60.00	-15.42	35.74	5.28	38.86	35.30	286	100	Average	HORIZONTAL
2	11650.01	55.63	80.00	-24.37	46.79	5.28	38.86	35.30	286	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	11649.97	49.23	60.00	-10.77	40.39	5.28	38.86	35.30	126	100	Average	VERTICAL
2	11650.00	63.91	80.00	-16.09	55.07	5.28	38.86	35.30	126	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	11a IEEE 802.11n MCS8 40MHz CH 151 / Ant. 5 / A1+A5
Test Date	Apr. 30, 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	11509.97	46.90	60.00	-13.10	38.15	5.24	38.79	35.28	112	100	Average	HORIZONTAL
2	11510.01	61.42	80.00	-18.58	52.67	5.24	38.79	35.28	112	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	11510.01	50.87	60.00	-9.13	42.12	5.24	38.79	35.28	293	100	Average	VERTICAL
2	11510.01	66.26	80.00	-13.74	57.51	5.24	38.79	35.28	293	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	11a IEEE 802.11n MCS8 40MHz CH 159 / Ant. 5 / A1+A5
Test Date	Apr. 30, 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	11589.97	43.14	60.00	-16.86	34.35	5.26	38.83	35.30	329	100	Average	HORIZONTAL
2	11589.99	58.29	80.00	-21.71	49.50	5.26	38.83	35.30	329	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	11590.00	64.26	80.00	-15.74	55.47	5.26	38.83	35.30	64	100	Peak	VERTICAL
2	11590.03	48.38	60.00	-11.62	39.59	5.26	38.83	35.30	64	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a CH 149 / Ant. 5 / A1+A5
Test Date	Apr. 30, 2010		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos		
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	deg	cm	Remark	Pol/Phase
1	11489.97	46.90	60.00	-13.10	38.16	5.24	38.78	35.28	59	100	Average	HORIZONTAL
2	11490.02	61.05	80.00	-18.95	52.31	5.24	38.78	35.28	59	100	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos		
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	deg	cm	Remark	Pol/Phase
1	11490.02	67.88	80.00	-12.12	59.14	5.24	38.78	35.28	253	100	Peak	VERTICAL
2	11490.03	52.37	60.00	-7.63	43.63	5.24	38.78	35.28	253	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a CH 157 / Ant. 5 / A1+A5
Test Date	Apr. 30, 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	11569.98	59.85	80.00	-20.15	51.07	5.25	38.83	35.30	296	100	Peak	HORIZONTAL
2	11570.03	45.02	60.00	-14.98	36.24	5.25	38.83	35.30	296	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	11570.00	66.32	80.00	-13.68	57.54	5.25	38.83	35.30	137	100	Peak	VERTICAL
2	11570.03	51.84	60.00	-8.16	43.06	5.25	38.83	35.30	137	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a CH 165 / Ant. 5 / A1+A5
Test Date	Apr. 30, 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	11649.99	59.48	80.00	-20.52	50.64	5.28	38.86	35.30	165	100	Peak	HORIZONTAL
2	11650.03	44.21	60.00	-15.79	35.37	5.28	38.86	35.30	165	100	Average	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	11650.00	63.39	80.00	-16.61	54.55	5.28	38.86	35.30	279	100	Peak	VERTICAL
2	11650.03	48.79	60.00	-11.21	39.95	5.28	38.86	35.30	279	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 Ant. 6 >

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 20MHz Ch 1 / Ant. 6 / B2+B6
Test Date	Apr. 29, 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	4823.99	29.71	54.00	-24.29	29.22	2.46	33.06	35.03	168	100	Average	HORIZONTAL
2	4823.99	42.92	74.00	-31.08	42.43	2.46	33.06	35.03	168	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	4823.98	29.70	54.00	-24.30	29.21	2.46	33.06	35.03	260	100	Average	VERTICAL
2	4824.01	42.72	74.00	-31.28	42.23	2.46	33.06	35.03	260	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 20MHz Ch 6 / Ant. 6 / B2+B6
Test Date	Apr. 29, 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	4874.00	42.74	74.00	-31.26	42.14	2.47	33.16	35.03	251	100	Peak	HORIZONTAL
2	4874.01	29.71	54.00	-24.29	29.11	2.47	33.16	35.03	251	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	4873.99	43.46	74.00	-30.54	42.86	2.47	33.16	35.03	153	100	Peak	VERTICAL
2	4874.03	29.76	54.00	-24.24	29.16	2.47	33.16	35.03	153	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 20MHz Ch11 / Ant. 6 / B2+B6
Test Date	Apr. 29, 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	4924.01	43.38	74.00	-30.62	42.66	2.47	33.26	35.01	121	100	Peak	HORIZONTAL
2	4924.01	30.01	54.00	-23.99	29.29	2.47	33.26	35.01	121	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	4923.99	43.94	74.00	-30.06	43.22	2.47	33.26	35.01	235	100	Peak	VERTICAL
2	4924.03	30.00	54.00	-24.00	29.28	2.47	33.26	35.01	235	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Ant. 6 / B2+B6
Test Date	Apr. 29, 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	4843.98	43.05	74.00	-30.95	42.53	2.46	33.09	35.03	121	100	Peak	HORIZONTAL
2	4843.99	29.85	54.00	-24.15	29.33	2.46	33.09	35.03	121	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	4843.98	43.28	74.00	-30.72	42.76	2.46	33.09	35.03	241	100	Peak	VERTICAL
2	4844.03	29.84	54.00	-24.16	29.32	2.46	33.09	35.03	241	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Ant. 6 / B2+B6
Test Date	Apr. 29, 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	4873.98	29.66	54.00	-24.34	29.06	2.47	33.16	35.03	282	100	Average	HORIZONTAL
2	4873.99	43.30	74.00	-30.70	42.70	2.47	33.16	35.03	282	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	4873.99	43.58	74.00	-30.42	42.98	2.47	33.16	35.03	219	100	Peak	VERTICAL
2	4874.01	29.64	54.00	-24.36	29.04	2.47	33.16	35.03	219	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Ant. 6 / B2+B6
Test Date	Apr. 29, 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	4903.98	29.64	54.00	-24.36	29.00	2.47	33.19	35.02	205	100	Average	HORIZONTAL
2	4903.99	42.78	74.00	-31.22	42.14	2.47	33.19	35.02	205	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	4903.98	43.05	74.00	-30.95	42.41	2.47	33.19	35.02	101	100	Peak	VERTICAL
2	4904.03	29.64	54.00	-24.36	29.00	2.47	33.19	35.02	101	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a IEEE 802.11n MCS8 20MHz CH 149 / Ant. 6 / A1+A5
Test Date	Apr. 29, 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	11490.00	65.28	80.00	-14.72	56.54	5.24	38.78	35.28	105	100	Peak	HORIZONTAL
2	11490.03	49.30	60.00	-10.70	40.56	5.24	38.78	35.28	105	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	11490.01	63.42	80.00	-16.58	54.68	5.24	38.78	35.28	202	100	Peak	VERTICAL
2	11490.03	49.56	60.00	-10.44	40.82	5.24	38.78	35.28	202	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	11a IEEE 802.11n MCS8 20MHz CH 157 / Ant. 6 / A1+A5
Test Date	Apr. 29, 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	11570.00	61.77	80.00	-18.23	52.99	5.25	38.83	35.30	227	100	Peak	HORIZONTAL
2	11570.03	47.95	60.00	-12.05	39.17	5.25	38.83	35.30	227	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	11569.99	51.49	60.00	-8.51	42.71	5.25	38.83	35.30	129	100	Average	VERTICAL
2	11570.01	64.82	80.00	-15.18	56.04	5.25	38.83	35.30	129	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	11a IEEE 802.11n MCS8 20MHz CH 165 / Ant. 6 / A1+A5
Test Date	Apr. 29, 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	11649.99	56.57	80.00	-23.43	47.73	5.28	38.86	35.30	54	100	Peak	HORIZONTAL
2	11650.03	43.36	60.00	-16.64	34.52	5.28	38.86	35.30	54	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	11650.02	64.16	80.00	-15.84	55.32	5.28	38.86	35.30	216	100	Peak	VERTICAL
2	11650.03	50.03	60.00	-9.97	41.19	5.28	38.86	35.30	216	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	11a IEEE 802.11n MCS8 40MHz CH 151 / Ant. 6 / A1+A5
Test Date	Apr. 29, 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	11509.97	48.56	60.00	-11.44	39.81	5.24	38.79	35.28	241	100	Average	HORIZONTAL
2	11509.98	60.43	80.00	-19.57	51.68	5.24	38.79	35.28	241	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	11509.99	50.51	60.00	-9.49	41.76	5.24	38.79	35.28	119	100	Average	VERTICAL
2	11510.00	64.15	80.00	-15.85	55.40	5.24	38.79	35.28	119	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	11a IEEE 802.11n MCS8 40MHz CH 159 / Ant. 6 / A1+A5
Test Date	Apr. 29, 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	deg	cm		
1	11589.97	45.39	60.00	-14.61	36.60	5.26	38.83	35.30	110	100 Average	HORIZONTAL
2	11590.02	60.10	80.00	-19.90	51.31	5.26	38.83	35.30	110	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	deg	cm		
1	11590.00	63.10	80.00	-16.90	54.31	5.26	38.83	35.30	236	100 Peak	VERTICAL
2	11590.03	49.65	60.00	-10.35	40.86	5.26	38.83	35.30	236	100 Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 1 / Ant. 6 / B2+B6
Test Date	Apr. 29, 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	4823.80	45.82	74.00	-28.18	45.33	2.46	33.06	35.03	64	157	Peak	HORIZONTAL
2	4824.05	34.33	54.00	-19.67	33.84	2.46	33.06	35.03	64	157	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	4824.09	32.50	54.00	-21.50	32.01	2.46	33.06	35.03	130	120	Average	VERTICAL
2	4824.28	44.26	74.00	-29.74	43.77	2.46	33.06	35.03	130	120	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 6 / Ant. 6 / B2+B6
Test Date	Apr. 29, 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	4873.97	38.38	54.00	-15.62	37.78	2.47	33.16	35.03	70	156	Average	HORIZONTAL
2	4874.02	46.42	74.00	-27.58	45.82	2.47	33.16	35.03	70	156	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	4873.81	46.26	74.00	-27.74	45.66	2.47	33.16	35.03	325	100	Peak	VERTICAL
2	4873.97	34.74	54.00	-19.26	34.14	2.47	33.16	35.03	325	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 11 / Ant. 6 / B2+B6
Test Date	Apr. 29, 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	4923.99	33.93	54.00	-20.07	33.21	2.47	33.26	35.01	82	137	Average	HORIZONTAL
2	4924.08	45.02	74.00	-28.98	44.30	2.47	33.26	35.01	82	137	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	4923.74	45.17	74.00	-28.83	44.45	2.47	33.26	35.01	165	118	Peak	VERTICAL
2	4923.98	35.27	54.00	-18.73	34.55	2.47	33.26	35.01	165	118	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 1 / Ant. 6 / B2+B6
Test Date	Apr. 29, 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	4824.02	42.78	74.00	-31.22	42.29	2.46	33.06	35.03	230	100	Peak	HORIZONTAL
2	4824.03	29.72	54.00	-24.28	29.23	2.46	33.06	35.03	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	4823.99	29.73	54.00	-24.27	29.24	2.46	33.06	35.03	146	100	Average	VERTICAL
2	4824.00	43.08	74.00	-30.92	42.59	2.46	33.06	35.03	146	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 6 / Ant. 6 / B2+B6
Test Date	Apr. 29, 2010		

Horizontal

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	deg	cm		
1	4873.98	42.99	74.00	-31.01	42.39	2.47	33.16	35.03	127	100	Peak	HORIZONTAL
2	4874.03	29.79	54.00	-24.21	29.19	2.47	33.16	35.03	127	100	Average	HORIZONTAL

Vertical

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	deg	cm		
1	4873.99	43.27	74.00	-30.73	42.67	2.47	33.16	35.03	252	100	Peak	VERTICAL
2	4874.03	30.02	54.00	-23.98	29.42	2.47	33.16	35.03	252	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 11 / Ant. 6 / B2+B6
Test Date	Apr. 29, 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	4924.03	29.97	54.00	-24.03	29.25	2.47	33.26	35.01	60	100	Average	HORIZONTAL
2	4924.03	42.64	74.00	-31.36	41.92	2.47	33.26	35.01	60	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	4923.99	42.97	74.00	-31.03	42.25	2.47	33.26	35.01	169	100	Peak	VERTICAL
2	4924.01	29.96	54.00	-24.04	29.24	2.47	33.26	35.01	169	100	Average	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a CH 149 / Ant. 6 / A1+A5
Test Date	Apr. 29, 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	11489.97	43.00	60.00	-17.00	34.26	5.24	38.78	35.28	280	100	Average	HORIZONTAL
2	11490.02	56.75	80.00	-23.25	48.01	5.24	38.78	35.28	280	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	11489.97	54.95	60.00	-5.05	46.21	5.24	38.78	35.28	137	100	Average	VERTICAL
2	11490.02	68.86	80.00	-11.14	60.12	5.24	38.78	35.28	137	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a CH 157 / Ant. 6 / A1+A5
Test Date	Apr. 29, 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	11569.99	63.88	80.00	-16.12	55.10	5.25	38.83	35.30	103	100	Peak	HORIZONTAL
2	11570.03	49.50	60.00	-10.50	40.72	5.25	38.83	35.30	103	100	Average	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	11569.97	53.70	60.00	-6.30	44.92	5.25	38.83	35.30	252	100	Average	VERTICAL
2	11570.00	68.86	80.00	-11.14	60.08	5.25	38.83	35.30	252	100	Peak	VERTICAL

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a CH 165 / Ant. 6 / A1+A5
Test Date	Apr. 29, 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	11649.97	47.52	60.00	-12.48	38.68	5.28	38.86	35.30	215	100	Average	HORIZONTAL
2	11650.01	61.97	80.00	-18.03	53.13	5.28	38.86	35.30	215	100	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	11650.01	65.12	80.00	-14.88	56.28	5.28	38.86	35.30	138	100	Peak	VERTICAL
2	11650.03	50.34	60.00	-9.66	41.50	5.28	38.86	35.30	138	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.

4.6. Band Edge Emissions Measurement

4.6.1. 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

4.6.2. 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)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	100 KHz /100 KHz for Peak

4.6.3. 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.

4.6.4. Test Setup Layout

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

4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



4.6.7. Test Result of Band Edge and Fundamental Emissions

< For Ant. 1 >

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	IEEE 802.11n MCS8 20MHz Ch 1 / Ant. 1 / B2+B6
Test date	Apr. 01, 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	53.56	54.00	-0.44	22.63	2.76	28.17	0.00	60	160	Average	HORIZONTAL
2	2390.00	71.99	74.00	-2.01	41.06	2.76	28.17	0.00	60	160	Peak	HORIZONTAL
3	2417.60	96.25	54.00			2.77	28.25	0.00	60	160	Average	HORIZONTAL
4	2419.40	105.80	74.00			2.77	28.25	0.00	60	160	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	IEEE 802.11n MCS8 20MHz Ch 6 / Ant. 1 / B2+B6
Test date	Mar. 31, 2010		

Channel 6

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2388.60	66.56	74.00	-7.44	36.65	2.04	0.00	27.87	244	191	Peak	HORIZONTAL
2	2390.00	46.09	54.00	-7.91	16.17	2.05	0.00	27.87	244	191	Average	HORIZONTAL
3	2429.60	103.50	54.00			2.07	0.00	27.81	244	191	Average	HORIZONTAL
4	2430.60	113.98	74.00			2.07	0.00	27.81	244	191	Peak	HORIZONTAL
5	2483.50	50.46	54.00	-3.54	20.63	2.10	0.00	27.73	244	191	Average	HORIZONTAL
6	2483.50	73.66	74.00	-0.34	43.83	2.10	0.00	27.73	244	191	Peak	HORIZONTAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	IEEE 802.11n MCS8 20MHz Ch 11 / Ant. 1 / B2+B6
Test date	Apr. 01, 2010		

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	2464.00	106.77	74.00			2.80	28.33	0.00	44	158	Peak	HORIZONTAL
2	2466.40	95.60	54.00			2.80	28.33	0.00	44	158	Average	HORIZONTAL
3	2483.50	53.00	54.00	-1.00	21.81	2.81	28.38	0.00	44	158	Average	HORIZONTAL
4	2483.50	70.96	74.00	-3.04	39.77	2.81	28.38	0.00	44	158	Peak	HORIZONTAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Ant. 1 / B2+B6
Test date	Apr. 01, 2010		

Channel 3

	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	2389.20	72.99	74.00	-1.01	42.06	2.76	28.17	0.00	202	196 Peak	HORIZONTAL
2	2390.00	53.02	54.00	-0.98	22.09	2.76	28.17	0.00	202	196 Average	HORIZONTAL
3	2432.80	104.02	74.00			2.78	28.25	0.00	202	196 Peak	HORIZONTAL
4	2435.20	92.02	54.00			2.78	28.29	0.00	202	196 Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Ant. 1 / B2+B6
Test date	Apr. 01, 2010		

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	dB	deg	cm	
1	2441.20	105.98	74.00			2.78	28.29	0.00	235	183 Peak	HORIZONTAL
2	2444.40	94.50	54.00			2.78	28.29	0.00	235	183 Average	HORIZONTAL
3	2483.50	53.84	54.00	-0.16	22.65	2.81	28.38	0.00	235	183 Average	HORIZONTAL
4	2484.30	73.12	74.00	-0.88	41.93	2.81	28.38	0.00	235	183 Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2437MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Ant. 1 / B2+B6
Test date	Apr. 20, 2010		

Channel 9

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2436.62	100.94	74.00			2.07	0.00	27.78	31	100	Peak	HORIZONTAL
2	2444.63	88.70	54.00			2.08	0.00	27.78	31	100	Average	HORIZONTAL
3	2483.50	53.07	54.00	-0.93	23.24	2.10	0.00	27.73	31	100	Average	HORIZONTAL
4	2483.50	68.65	74.00	-5.35	38.82	2.10	0.00	27.73	31	100	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 1 / Ant. 1 / B2+B6
Test Date	Mar. 31, 2010		

Channel 1

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2385.80	52.83	54.00	-1.17	22.92	2.04	0.00	27.87	54	160	Average	HORIZONTAL
2	2386.20	59.83	74.00	-14.17	29.92	2.04	0.00	27.87	54	160	Peak	HORIZONTAL
3	2411.00	112.40	74.00			2.05	0.00	27.84	54	160	Peak	HORIZONTAL
4	2412.60	108.40	54.00			2.05	0.00	27.84	54	160	Average	HORIZONTAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 6 / Ant. 1 / B2+B6
Test Date	Mar. 31, 2010		

Channel 6

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2389.20	48.78	54.00	-5.22	18.87	2.04	0.00	27.87	55	154	Average	HORIZONTAL
2	2389.80	59.03	74.00	-14.97	29.11	2.05	0.00	27.87	55	154	Peak	HORIZONTAL
3	2436.00	116.96	74.00			2.07	0.00	27.81	55	154	Peak	HORIZONTAL
4	2436.20	113.30	54.00			2.07	0.00	27.81	55	154	Average	HORIZONTAL
5	2484.30	48.07	54.00	-5.93	18.24	2.10	0.00	27.73	55	154	Average	HORIZONTAL
6	2485.10	59.21	74.00	-14.79	29.38	2.10	0.00	27.73	55	154	Peak	HORIZONTAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 11 / Ant. 1 / B2+B6
Test Date	Mar. 31, 2010		

Channel 11

	Freq	Level	Limit	Over	Read	Cable	Preamp	Antenna	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	dB/m	deg	cm		
1	2459.20	105.47	54.00			2.08	0.00	27.76	244	190	Average	HORIZONTAL
2	2460.60	109.00	74.00			2.08	0.00	27.76	244	190	Peak	HORIZONTAL
3	2487.70	53.19	54.00	-0.81	23.39	2.10	0.00	27.70	244	190	Average	HORIZONTAL
4	2487.90	60.26	74.00	-13.74	30.46	2.10	0.00	27.70	244	190	Peak	HORIZONTAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 1 / Ant. 1 / B2+B6
Test Date	Mar. 31, 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	2389.00	72.96	74.00	-1.04	42.03	2.76	28.17	0.00	198	155	Peak	HORIZONTAL
2	2390.00	53.32	54.00	-0.68	22.39	2.76	28.17	0.00	198	155	Average	HORIZONTAL
3	2404.80	108.10	74.00			2.77	28.21	0.00	198	155	Peak	HORIZONTAL
4	2405.00	96.84	54.00			2.77	28.21	0.00	198	155	Average	HORIZONTAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 6 / Ant. 1 / B2+B6
Test Date	Mar. 31, 2010		

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	2390.00	46.79	54.00	-7.21	16.87	2.05	0.00	27.87	246	189	Average	HORIZONTAL
2	2390.00	65.93	74.00	-8.07	36.01	2.05	0.00	27.87	246	189	Peak	HORIZONTAL
3	2443.00	104.22	54.00			2.08	0.00	27.78	246	189	Average	HORIZONTAL
4	2443.40	114.40	74.00			2.08	0.00	27.78	246	189	Peak	HORIZONTAL
5	2483.50	52.44	54.00	-1.56	22.61	2.10	0.00	27.73	246	189	Average	HORIZONTAL
6	2483.70	73.98	74.00	-0.02	44.15	2.10	0.00	27.73	246	189	Peak	HORIZONTAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 11 / Ant. 1 / B2+B6
Test Date	Mar. 31, 2010		

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	2467.40	108.34	74.00			2.80	28.33	0.00	201	186	Peak	HORIZONTAL
2	2469.20	97.53	54.00			2.80	28.38	0.00	201	186	Average	HORIZONTAL
3	2483.50	53.72	54.00	-0.28	22.53	2.81	28.38	0.00	201	186	Average	HORIZONTAL
4	2483.70	71.61	74.00	-2.39	40.42	2.81	28.38	0.00	201	186	Peak	HORIZONTAL

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 Ant. 2 >

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	IEEE 802.11n MCS8 20MHz Ch 1 / Ant. 2 / B2+B6
Test date	Apr. 26, 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	2389.40	73.42	74.00	-0.58	43.49	1.76	28.17	0.00	38	100	Peak	VERTICAL
2	2390.00	52.62	54.00	-1.38	22.69	1.76	28.17	0.00	38	100	Average	VERTICAL
3	2405.60	105.51	74.00			1.77	28.21	0.00	38	100	Peak	VERTICAL
4	2405.80	94.67	54.00			1.77	28.21	0.00	38	100	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	IEEE 802.11n MCS8 20MHz Ch 6 / Ant. 2 / B2+B6
Test date	Apr. 26, 2010		

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	2389.40	68.27	74.00	-5.73	38.34	1.76	28.17	0.00	129	135	Peak	VERTICAL
2	2390.00	52.45	54.00	-1.55	22.52	1.76	28.17	0.00	129	135	Average	VERTICAL
3	2429.60	112.12	74.00			1.78	28.25	0.00	129	135	Peak	VERTICAL
4	2430.40	100.88	54.00			1.78	28.25	0.00	129	135	Average	VERTICAL
5	2483.50	49.17	54.00	-4.83	18.99	1.81	28.37	0.00	129	135	Average	VERTICAL
6	2484.30	65.55	74.00	-8.45	35.37	1.81	28.37	0.00	129	135	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 20MHz Ch 11 / Ant. 2 / B2+B6
Test date	Apr. 26, 2010		

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	98.26	54.00			1.80	28.33	0.00	128	100	Average	VERTICAL
2	2460.80	109.39	74.00			1.80	28.33	0.00	128	100	Peak	VERTICAL
3	2483.50	53.67	54.00	-0.33	23.49	1.81	28.37	0.00	128	100	Average	VERTICAL
4	2485.50	71.54	74.00	-2.46	41.32	1.81	28.41	0.00	128	100	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Ant. 2 / B2+B6
Test date	Apr. 26, 2010		

Channel 3

	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	2388.80	73.15	74.00	-0.85	43.22	1.76	28.17	0.00	165	145	Peak	VERTICAL
2	2390.00	53.09	54.00	-0.91	23.16	1.76	28.17	0.00	165	145	Average	VERTICAL
3	2435.20	105.49	74.00			1.78	28.29	0.00	165	145	Peak	VERTICAL
4	2439.20	92.30	54.00			1.78	28.29	0.00	165	145	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Ant. 2 / B2+B6
Test date	Apr. 26, 2010		

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	2390.00	49.54	54.00	-4.46	19.61	1.76	28.17	0.00	126	100	Average	VERTICAL
2	2390.00	65.49	74.00	-8.51	35.56	1.76	28.17	0.00	126	100	Peak	VERTICAL
3	2440.20	93.71	54.00			1.78	28.29	0.00	126	100	Average	VERTICAL
4	2440.20	106.22	74.00			1.78	28.29	0.00	126	100	Peak	VERTICAL
5	2483.50	52.09	54.00	-1.91	21.91	1.81	28.37	0.00	126	100	Average	VERTICAL
6	2483.50	69.01	74.00	-4.99	38.83	1.81	28.37	0.00	126	100	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Ant. 2 / B2+B6
Test date	Apr. 26, 2010		

Channel 9

	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	2447.60	105.46	74.00			1.78	28.29	0.00	127	100	Peak	VERTICAL
2	2460.00	92.91	54.00			1.80	28.33	0.00	127	100	Average	VERTICAL
3	2483.50	53.07	54.00	-0.93	22.89	1.81	28.37	0.00	127	100	Average	VERTICAL
4	2483.50	69.38	74.00	-4.62	39.20	1.81	28.37	0.00	127	100	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 1 / Ant. 2 / B2+B6
Test Date	Apr. 26, 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	2386.00	60.57	74.00	-13.43	30.64	1.76	28.17	0.00	99	137	Peak	VERTICAL
2	2386.20	53.13	54.00	-0.87	23.20	1.76	28.17	0.00	99	137	Average	VERTICAL
3	2414.60	110.71	74.00			1.77	28.21	0.00	99	137	Peak	VERTICAL
4	2415.20	107.07	54.00			1.77	28.21	0.00	99	137	Average	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 6 / Ant. 2 / B2+B6
Test Date	Apr. 26, 2010		

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	2389.00	44.49	54.00	-9.51	14.56	1.76	28.17	0.00	83	100	Average	VERTICAL
2	2389.40	54.82	74.00	-19.18	24.89	1.76	28.17	0.00	83	100	Peak	VERTICAL
3	2434.20	107.93	54.00			1.78	28.29	0.00	83	100	Average	VERTICAL
4	2435.60	111.44	74.00			1.78	28.29	0.00	83	100	Peak	VERTICAL
5	2484.50	47.84	54.00	-6.16	17.66	1.81	28.37	0.00	83	100	Average	VERTICAL
6	2485.10	57.87	74.00	-16.13	27.65	1.81	28.41	0.00	83	100	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 11 / Ant. 2 / B2+B6
Test Date	Apr. 26, 2010		

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	109.95	74.00			1.80	28.33	0.00	79	100	Peak	VERTICAL
2	2461.20	106.18	54.00			1.80	28.33	0.00	79	100	Average	VERTICAL
3	2487.90	53.21	54.00	-0.79	22.99	1.81	28.41	0.00	79	100	Average	VERTICAL
4	2487.90	61.59	74.00	-12.41	31.37	1.81	28.41	0.00	79	100	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 1 / Ant. 2 / B2+B6
Test Date	Apr. 26, 2010		

Channel 1

	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	2389.20	71.10	74.00	-2.90	41.17	1.76	28.17	0.00	104	162 Peak	VERTICAL
2	2390.00	52.61	54.00	-1.39	22.68	1.76	28.17	0.00	104	162 Average	VERTICAL
3	2407.20	98.37	54.00			1.77	28.21	0.00	104	162 Average	VERTICAL
4	2407.40	107.96	74.00			1.77	28.21	0.00	104	162 Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 6 / Ant. 2 / B2+B6
Test Date	Apr. 26, 2010		

Channel 6

	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	2387.60	63.42	74.00	-10.58	33.49	1.76	28.17	0.00	78	100 Peak	VERTICAL
2	2390.00	48.27	54.00	-5.73	18.34	1.76	28.17	0.00	78	100 Average	VERTICAL
3	2431.00	105.05	54.00			1.78	28.25	0.00	78	100 Average	VERTICAL
4	2431.40	115.20	74.00			1.78	28.25	0.00	78	100 Peak	VERTICAL
5	2483.50	51.47	54.00	-2.53	21.29	1.81	28.37	0.00	78	100 Average	VERTICAL
6	2483.70	69.27	74.00	-4.73	39.09	1.81	28.37	0.00	78	100 Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 11 / Ant. 2 / B2+B6
Test Date	Apr. 26, 2010		

Channel 11

	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	2459.80	100.52	54.00			1.80	28.33	0.00	128	100 Average	VERTICAL
2	2460.40	109.98	74.00			1.80	28.33	0.00	128	100 Peak	VERTICAL
3	2483.50	53.70	54.00	-0.30	23.52	1.81	28.37	0.00	128	100 Average	VERTICAL
4	2487.50	71.33	74.00	-2.67	41.11	1.81	28.41	0.00	128	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 Ant. 3 >

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration s	IEEE 802.11n MCS8 20MHz Ch 1 / Ant. 3 / B2+B6
Test date	Apr. 28, 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	2388.56	69.80	74.00	-4.20	39.87	1.76	28.17	0.00	25	100	Peak	VERTICAL
2	2390.00	53.16	54.00	-0.84	23.23	1.76	28.17	0.00	25	100	Average	VERTICAL
3	2413.76	111.87	74.00			1.77	28.21	0.00	25	100	Peak	VERTICAL
4	2418.25	100.79	54.00			1.77	28.25	0.00	25	100	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration s	IEEE 802.11n MCS8 20MHz Ch 6 Ant. 3 / B2+B6
Test date	Apr. 28, 2010		

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	2387.12	69.12	74.00	-4.88	39.19	1.76	28.17	0.00	346	100	Peak	VERTICAL
2	2390.00	53.31	54.00	-0.69	23.38	1.76	28.17	0.00	346	100	Average	VERTICAL
3	2430.11	106.88	54.00			1.78	28.25	0.00	346	100	Average	VERTICAL
4	2438.28	119.03	74.00			1.78	28.29	0.00	346	100	Peak	VERTICAL
5	2483.50	53.34	54.00	-0.66	23.16	1.81	28.37	0.00	346	100	Average	VERTICAL
6	2484.62	67.35	74.00	-6.65	37.17	1.81	28.37	0.00	346	100	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration s	IEEE 802.11n MCS8 20MHz Ch 11 / Ant. 3 / B2+B6
Test date	Apr. 28, 2010		

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	dB	deg	cm		
1	2455.11	98.71	54.00			1.80	28.33	0.00	351	100	Average	VERTICAL
2	2455.11	109.89	74.00			1.80	28.33	0.00	351	100	Peak	VERTICAL
3	2483.50	53.52	54.00	-0.48	23.34	1.81	28.37	0.00	351	100	Average	VERTICAL
4	2483.66	67.87	74.00	-6.13	37.69	1.81	28.37	0.00	351	100	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Ant. 3 / B2+B6
Test date	Apr. 28, 2010		

Channel 3

	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	2388.80	69.88	74.00	-4.12	39.95	1.76	28.17	0.00	24	100	Peak	VERTICAL
2	2390.00	53.21	54.00	-0.79	23.28	1.76	28.17	0.00	24	100	Average	VERTICAL
3	2419.60	106.75	74.00			1.77	28.25	0.00	24	100	Peak	VERTICAL
4	2433.20	95.24	54.00			1.78	28.25	0.00	24	100	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Ant. 3 / B2+B6
Test date	Apr. 28, 2010		

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	2383.60	67.91	74.00	-6.09	37.98	1.76	28.17	0.00	24	100	Peak	VERTICAL
2	2390.00	53.12	54.00	-0.88	23.19	1.76	28.17	0.00	24	100	Average	VERTICAL
3	2429.40	110.78	74.00			1.78	28.25	0.00	24	100	Peak	VERTICAL
4	2431.80	98.84	54.00			1.78	28.25	0.00	24	100	Average	VERTICAL
5	2483.50	49.89	54.00	-4.11	19.71	1.81	28.37	0.00	24	100	Average	VERTICAL
6	2484.70	67.27	74.00	-6.73	37.09	1.81	28.37	0.00	24	100	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Ant. 3 / B2+B6
Test date	Apr. 28, 2010		

Channel 9

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	deg	cm		
1	2437.60	106.07	74.00			1.78	28.29	0.00	39	100	Peak	VERTICAL
2	2454.80	93.51	54.00			1.80	28.33	0.00	39	100	Average	VERTICAL
3	2483.50	53.53	54.00	-0.47	23.35	1.81	28.37	0.00	39	100	Average	VERTICAL
4	2483.90	70.14	74.00	-3.86	39.96	1.81	28.37	0.00	39	100	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 1 / Ant. 3 / B2+B6
Test Date	Apr. 28, 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	2385.83	53.51	54.00	-0.49	23.58	1.76	28.17	0.00	30	100	Average	VERTICAL
2	2385.99	60.76	74.00	-13.24	30.83	1.76	28.17	0.00	30	100	Peak	VERTICAL
3	2413.60	115.96	74.00			1.77	28.21	0.00	30	100	Peak	VERTICAL
4	2414.72	112.60	54.00			1.77	28.21	0.00	30	100	Average	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 6 / Ant. 3 / B2+B6
Test Date	Apr. 28, 2010		

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	2388.88	59.04	74.00	-14.96	29.11	1.76	28.17	0.00	355	100	Peak	VERTICAL
2	2389.52	50.58	54.00	-3.42	20.65	1.76	28.17	0.00	355	100	Average	VERTICAL
3	2435.56	118.81	74.00			1.78	28.29	0.00	355	100	Peak	VERTICAL
4	2436.36	115.24	54.00			1.78	28.29	0.00	355	100	Average	VERTICAL
5	2484.78	52.63	54.00	-1.37	22.45	1.81	28.37	0.00	355	100	Average	VERTICAL
6	2484.78	61.15	74.00	-12.85	30.97	1.81	28.37	0.00	355	100	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 11 / Ant. 3 / B2+B6
Test Date	Apr. 28, 2010		

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	2462.96	114.10	74.00			1.80	28.33	0.00	341	100	Peak	VERTICAL
2	2464.72	110.35	54.00			1.80	28.33	0.00	341	100	Average	VERTICAL
3	2487.83	52.65	54.00	-1.35	22.43	1.81	28.41	0.00	341	100	Average	VERTICAL
4	2487.83	60.95	74.00	-13.05	30.73	1.81	28.41	0.00	341	100	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 1 / Ant. 3 / B2+B6
Test Date	Apr. 28, 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	2389.84	70.96	74.00	-3.04	41.03	1.76	28.17	0.00	30	100	Peak	VERTICAL
2	2390.00	53.01	54.00	-0.99	23.08	1.76	28.17	0.00	30	100	Average	VERTICAL
3	2413.92	104.35	54.00			1.77	28.21	0.00	30	100	Average	VERTICAL
4	2418.41	114.35	74.00			1.77	28.25	0.00	30	100	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 6 / Ant. 3 / B2+B6
Test Date	Apr. 28, 2010		

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	2389.04	68.90	74.00	-5.10	38.97	1.76	28.17	0.00	27	100	Peak	VERTICAL
2	2390.00	53.15	54.00	-0.85	23.22	1.76	28.17	0.00	27	100	Average	VERTICAL
3	2431.55	122.07	74.00			1.78	28.25	0.00	27	100	Peak	VERTICAL
4	2434.28	111.10	54.00			1.78	28.29	0.00	27	100	Average	VERTICAL
5	2483.50	53.93	54.00	-0.07	23.75	1.81	28.37	0.00	27	100	Average	VERTICAL
6	2483.98	71.20	74.00	-2.80	41.02	1.81	28.37	0.00	27	100	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 11 / Ant. 3 / B2+B6
Test Date	Apr. 28, 2010		

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	2454.63	100.08	54.00			1.80	28.33	0.00	354	100	Average	VERTICAL
2	2454.95	111.10	74.00			1.80	28.33	0.00	354	100	Peak	VERTICAL
3	2483.50	52.82	54.00	-1.18	22.64	1.81	28.37	0.00	354	100	Average	VERTICAL
4	2483.66	67.47	74.00	-6.58	37.24	1.81	28.37	0.00	354	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 Ant. 4 >

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	IEEE 802.11n MCS8 20MHz Ch 1 / Ant. 4 / B2+B6
Test date	Apr. 29, 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	2389.40	69.73	74.00	-4.27	39.80	1.76	28.17	0.00	4	143	Peak	VERTICAL
2	2390.00	52.75	54.00	-1.25	22.82	1.76	28.17	0.00	4	143	Average	VERTICAL
3	2419.00	113.35	74.00			1.77	28.25	0.00	4	143	Peak	VERTICAL
4	2419.20	101.68	54.00			1.77	28.25	0.00	4	143	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	IEEE 802.11n MCS8 20MHz Ch 6 / Ant. 4 / B2+B6
Test date	Apr. 29, 2010		

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	64.53	74.00	-9.47	34.60	1.76	28.17	0.00	9	100	Peak	VERTICAL
2	2390.00	51.01	54.00	-2.99	21.08	1.76	28.17	0.00	9	100	Average	VERTICAL
3	2431.80	106.16	54.00			1.78	28.25	0.00	9	100	Average	VERTICAL
4	2432.80	117.88	74.00			1.78	28.25	0.00	9	100	Peak	VERTICAL
5	2483.50	53.65	54.00	-0.35	23.47	1.81	28.37	0.00	9	100	Average	VERTICAL
6	2483.50	69.19	74.00	-4.81	39.01	1.81	28.37	0.00	9	100	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration	IEEE 802.11n MCS8 20MHz Ch 11 / Ant. 4 / B2+B6
Test date	Apr. 29, 2010		

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor	Factor			
			dBuV/m	dB	dBuV	dB	dB/m	dB	deg	cm	
1	2457.60	112.92	74.00			1.80	28.33	0.00	8	135 Peak	VERTICAL
2	2457.80	100.96	54.00			1.80	28.33	0.00	8	135 Average	VERTICAL
3	2483.50	53.62	54.00	-0.38	23.44	1.81	28.37	0.00	8	135 Average	VERTICAL
4	2483.50	68.36	74.00	-5.64	38.18	1.81	28.37	0.00	8	135 Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Ant. 4 / B2+B6
Test date	Apr. 29, 2010		

Channel 3

	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	2389.60	70.69	74.00	-3.31	40.76	1.76	28.17	0.00	7	143 Peak	VERTICAL
2	2390.00	53.77	54.00	-0.23	23.84	1.76	28.17	0.00	7	143 Average	VERTICAL
3	2438.80	96.78	54.00			1.78	28.29	0.00	7	143 Average	VERTICAL
4	2438.80	108.87	74.00			1.78	28.29	0.00	7	143 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Ant. 4 / B2+B6
Test date	Apr. 29, 2010		

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	dB	deg	cm	
1	2390.00	52.83	54.00	-1.17	22.90	1.76	28.17	0.00	6	139 Average	VERTICAL
2	2390.00	67.37	74.00	-6.63	37.44	1.76	28.17	0.00	6	139 Peak	VERTICAL
3	2435.40	113.18	74.00			1.78	28.29	0.00	6	139 Peak	VERTICAL
4	2439.40	100.45	54.00			1.78	28.29	0.00	6	139 Average	VERTICAL
5	2483.50	52.78	54.00	-1.22	22.60	1.81	28.37	0.00	6	139 Average	VERTICAL
6	2484.70	70.60	74.00	-3.40	40.42	1.81	28.37	0.00	6	139 Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Ant. 4 / B2+B6
Test date	Apr. 29, 2010		

Channel 9

	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	2458.40	94.71	54.00			1.80	28.33	0.00	16	138	Average	VERTICAL
2	2459.60	108.10	74.00			1.80	28.33	0.00	16	138	Peak	VERTICAL
3	2483.50	53.85	54.00	-0.15	23.67	1.81	28.37	0.00	16	138	Average	VERTICAL
4	2483.50	72.11	74.00	-1.89	41.93	1.81	28.37	0.00	16	138	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 1 / Ant. 4 / B2+B6
Test Date	Apr. 29, 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	2385.80	61.90	74.00	-12.10	31.97	1.76	28.17	0.00	3	176	Peak	VERTICAL
2	2386.60	52.83	54.00	-1.17	22.90	1.76	28.17	0.00	3	176	Average	VERTICAL
3	2410.60	118.77	74.00			1.77	28.21	0.00	3	176	Peak	VERTICAL
4	2411.20	114.58	54.00			1.77	28.21	0.00	3	176	Average	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 6 / Ant. 4 / B2+B6
Test Date	Apr. 29, 2010		

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	2388.40	59.83	74.00	-14.17	29.90	1.76	28.17	0.00	4	147	Peak	VERTICAL
2	2389.00	50.66	54.00	-3.34	20.73	1.76	28.17	0.00	4	147	Average	VERTICAL
3	2436.00	121.68	74.00			1.78	28.29	0.00	4	147	Peak	VERTICAL
4	2436.20	117.78	54.00			1.78	28.29	0.00	4	147	Average	VERTICAL
5	2484.70	52.87	54.00	-1.13	22.69	1.81	28.37	0.00	4	147	Average	VERTICAL
6	2484.70	62.82	74.00	-11.18	32.64	1.81	28.37	0.00	4	147	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 11 / Ant. 4 / B2+B6
Test Date	Apr. 29, 2010		

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	2459.40	114.01	54.00			1.80	28.33	0.00	7	149	Average	VERTICAL
2	2460.60	117.61	74.00			1.80	28.33	0.00	7	149	Peak	VERTICAL
3	2487.50	52.36	54.00	-1.64	22.14	1.81	28.41	0.00	7	149	Average	VERTICAL
4	2488.50	61.94	74.00	-12.06	31.72	1.81	28.41	0.00	7	149	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 1 / Ant. 4 / B2+B6
Test Date	Apr. 29, 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	2390.00	52.95	54.00	-1.05	23.02	1.76	28.17	0.00	8	144	Average	VERTICAL
2	2390.00	70.73	74.00	-3.27	40.80	1.76	28.17	0.00	8	144	Peak	VERTICAL
3	2410.20	105.15	54.00			1.77	28.21	0.00	8	144	Average	VERTICAL
4	2417.80	116.52	74.00			1.77	28.25	0.00	8	144	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 6 / Ant. 4 / B2+B6
Test Date	Apr. 29, 2010		

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	2388.40	68.54	74.00	-5.46	38.61	1.76	28.17	0.00	18	134	Peak	VERTICAL
2	2390.00	52.31	54.00	-1.69	22.38	1.76	28.17	0.00	18	134	Average	VERTICAL
3	2439.20	111.88	54.00			1.78	28.29	0.00	18	134	Average	VERTICAL
4	2442.00	121.46	74.00			1.78	28.29	0.00	18	134	Peak	VERTICAL
5	2483.90	53.99	54.00	-0.01	23.81	1.81	28.37	0.00	18	134	Average	VERTICAL
6	2484.10	70.54	74.00	-3.46	40.36	1.81	28.37	0.00	18	134	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 11 / Ant. 4 / B2+B6
Test Date	Apr. 29, 2010		

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	2458.20	104.67	54.00			1.80	28.33	0.00	12	133	Average	VERTICAL
2	2468.80	115.07	74.00			1.80	28.37	0.00	12	133	Peak	VERTICAL
3	2483.50	53.81	54.00	-0.19	23.63	1.81	28.37	0.00	12	133	Average	VERTICAL
4	2483.90	70.47	74.00	-3.53	40.29	1.81	28.37	0.00	12	133	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 Ant. 6 >

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration s	IEEE 802.11n MCS8 20MHz Ch 1 / Ant. 6 / B2+B6
Test date	Apr. 29, 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	dB	deg	cm	
1	2388.40	70.78	74.00	-3.22	40.85	1.76	28.17	0.00	248	160 Peak	VERTICAL
2	2390.00	53.46	54.00	-0.54	23.53	1.76	28.17	0.00	248	160 Average	VERTICAL
3	2418.20	99.40	54.00			1.77	28.25	0.00	248	160 Average	VERTICAL
4	2418.40	111.15	74.00			1.77	28.25	0.00	248	160 Peak	VERTICAL

Item 3, 4 are the fundamental frequency at 2412 MHz

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration s	IEEE 802.11n MCS8 20MHz Ch 6 / Ant. 6 / B2+B6
Test date	Apr. 29, 2010		

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	dB	deg	cm	
1	2389.20	65.63	74.00	-8.37	35.70	1.76	28.17	0.00	323	141 Peak	VERTICAL
2	2390.00	49.60	54.00	-4.40	19.67	1.76	28.17	0.00	323	141 Average	VERTICAL
3	2438.40	119.15	74.00			1.78	28.29	0.00	323	141 Peak	VERTICAL
4	2444.20	107.01	54.00			1.78	28.29	0.00	323	141 Average	VERTICAL
5	2483.50	53.43	54.00	-0.57	23.25	1.81	28.37	0.00	323	141 Average	VERTICAL
6	2485.90	71.15	74.00	-2.85	40.93	1.81	28.41	0.00	323	141 Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configuration s	IEEE 802.11n MCS8 20MHz Ch 11 / Ant. 6 / B2+B6
Test date	Apr. 29, 2010		

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	dB	deg	cm		
1	2455.60	96.70	54.00			1.80	28.33	0.00	298	100	Average	VERTICAL
2	2457.40	108.21	74.00			1.80	28.33	0.00	298	100	Peak	VERTICAL
3	2483.50	52.70	54.00	-1.30	22.52	1.81	28.37	0.00	298	100	Average	VERTICAL
4	2484.10	69.08	74.00	-4.92	38.90	1.81	28.37	0.00	298	100	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 3 / Ant. 6 / B2+B6
Test date	Apr. 29, 2010		

Channel 3

	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	2389.60	70.55	74.00	-3.45	40.62	1.76	28.17	0.00	247	157	Peak	VERTICAL
2	2390.00	53.44	54.00	-0.56	23.51	1.76	28.17	0.00	247	157	Average	VERTICAL
3	2437.20	106.66	74.00			1.78	28.29	0.00	247	157	Peak	VERTICAL
4	2437.60	94.47	54.00			1.78	28.29	0.00	247	157	Average	VERTICAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 6 / Ant. 6 / B2+B6
Test date	Apr. 29, 2010		

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	2390.00	51.54	54.00	-2.46	21.61	1.76	28.17	0.00	70	150	Average	VERTICAL
2	2390.00	67.36	74.00	-6.64	37.43	1.76	28.17	0.00	70	150	Peak	VERTICAL
3	2439.40	98.11	54.00			1.78	28.29	0.00	70	150	Average	VERTICAL
4	2439.40	111.38	74.00			1.78	28.29	0.00	70	150	Peak	VERTICAL
5	2483.50	53.41	54.00	-0.59	23.23	1.81	28.37	0.00	70	150	Average	VERTICAL
6	2485.50	70.28	74.00	-3.72	40.06	1.81	28.41	0.00	70	150	Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n MCS8 40MHz Ch 9 / Ant. 6 / B2+B6
Test date	Apr. 29, 2010		

Channel 9

	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	deg	cm		
1	2438.40	91.94	54.00			1.78	28.29	0.00	295	100	Average	VERTICAL
2	2444.40	104.45	74.00			1.78	28.29	0.00	295	100	Peak	VERTICAL
3	2483.50	53.46	54.00	-0.54	23.28	1.81	28.37	0.00	295	100	Average	VERTICAL
4	2483.90	69.19	74.00	-4.81	39.01	1.81	28.37	0.00	295	100	Peak	VERTICAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 1 / Ant. 6 / B2+B6
Test Date	Apr. 29, 2010		

Channel 1

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor			
						dB	dB/m	dB	deg	cm	
1	2386.20	61.19	74.00	-12.81	31.26	1.76	28.17	0.00	249	149 Peak	VERTICAL
2	2386.60	52.77	54.00	-1.23	22.84	1.76	28.17	0.00	249	149 Average	VERTICAL
3	2412.60	109.92	54.00			1.77	28.21	0.00	249	149 Average	VERTICAL
4	2413.40	114.93	74.00			1.77	28.21	0.00	249	149 Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 6 / Ant. 6 / B2+B6
Test Date	Apr. 29, 2010		

Channel 6

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor			
						dB	dB/m	dB	deg	cm	
1	2389.00	47.46	54.00	-6.54	17.53	1.76	28.17	0.00	324	143 Average	VERTICAL
2	2389.20	57.84	74.00	-16.16	27.91	1.76	28.17	0.00	324	143 Peak	VERTICAL
3	2439.80	114.73	54.00			1.78	28.29	0.00	324	143 Average	VERTICAL
4	2440.80	118.16	74.00			1.78	28.29	0.00	324	143 Peak	VERTICAL
5	2484.90	50.40	54.00	-3.60	20.22	1.81	28.37	0.00	324	143 Average	VERTICAL
6	2485.70	59.61	74.00	-14.39	29.39	1.81	28.41	0.00	324	143 Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b CH 11 / Ant. 6 / B2+B6
Test Date	Apr. 29, 2010		

Channel 11

	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	T/Pos	A/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor			
						dB	dB/m	dB	deg	cm	
1	2459.40	108.47	54.00			1.80	28.33	0.00	297	100 Average	VERTICAL
2	2461.20	112.34	74.00			1.80	28.33	0.00	297	100 Peak	VERTICAL
3	2487.70	52.72	54.00	-1.28	22.50	1.81	28.41	0.00	297	100 Average	VERTICAL
4	2487.70	61.42	74.00	-12.58	31.20	1.81	28.41	0.00	297	100 Peak	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 1 / Ant. 6 / B2+B6
Test Date	Apr. 29, 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	2389.80	53.56	54.00	-0.44	23.63	1.76	28.17	0.00	309	144	Average	VERTICAL
2	2390.00	73.37	74.00	-0.63	43.44	1.76	28.17	0.00	309	144	Peak	VERTICAL
3	2417.20	115.53	74.00			1.77	28.25	0.00	309	144	Peak	VERTICAL
4	2417.40	105.08	54.00			1.77	28.25	0.00	309	144	Average	VERTICAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 6 / Ant. 6 / B2+B6
Test Date	Apr. 29, 2010		

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	2388.20	68.88	74.00	-5.12	38.95	1.76	28.17	0.00	62	143	Peak	HORIZONTAL
2	2390.00	51.58	54.00	-2.42	21.65	1.76	28.17	0.00	62	143	Average	HORIZONTAL
3	2433.60	119.17	74.00			1.78	28.25	0.00	62	143	Peak	HORIZONTAL
4	2438.40	109.27	54.00			1.78	28.29	0.00	62	143	Average	HORIZONTAL
5	2483.50	53.93	54.00	-0.07	23.74	1.81	28.38	0.00	62	143	Average	HORIZONTAL
6	2483.50	72.59	74.00	-1.41	42.40	1.81	28.38	0.00	62	143	Peak	HORIZONTAL

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

Temperature	24°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11g CH 11 / Ant. 6 / B2+B6
Test Date	Apr. 29, 2010		

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	2455.40	101.19	54.00			1.80	28.33	0.00	323	142	Average	HORIZONTAL
2	2456.40	111.32	74.00			1.80	28.33	0.00	323	142	Peak	HORIZONTAL
3	2483.50	53.67	54.00	-0.33	23.48	1.81	28.38	0.00	323	142	Average	HORIZONTAL
4	2483.70	69.95	74.00	-4.05	39.76	1.81	28.38	0.00	323	142	Peak	HORIZONTAL

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

Note:

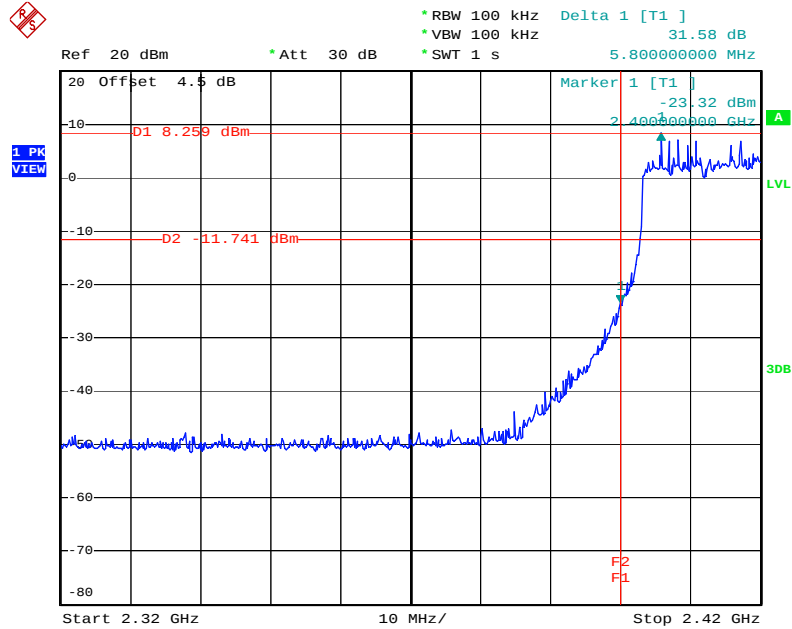
Emission level (dBuV/m) = 20 log Emission level (uV/m).

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

For Emission not in Restricted Band

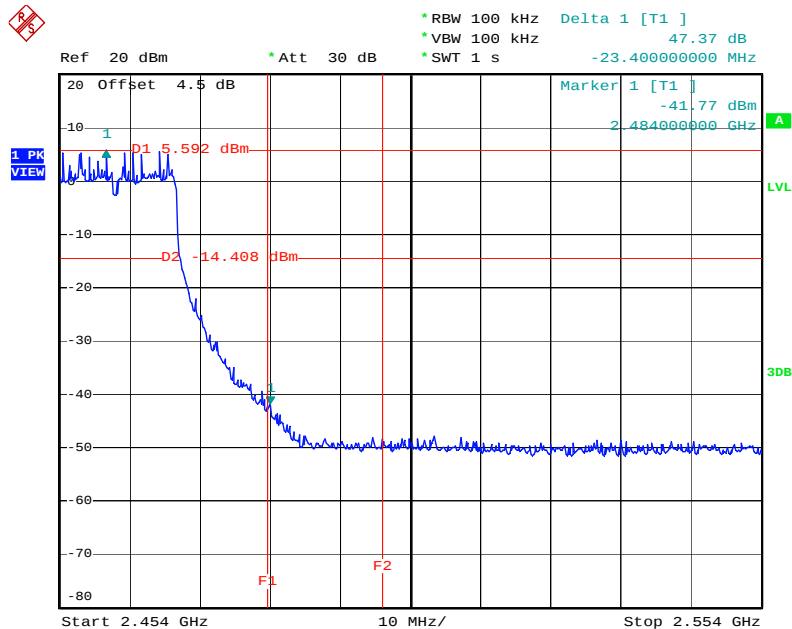
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Low Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2412 MHz



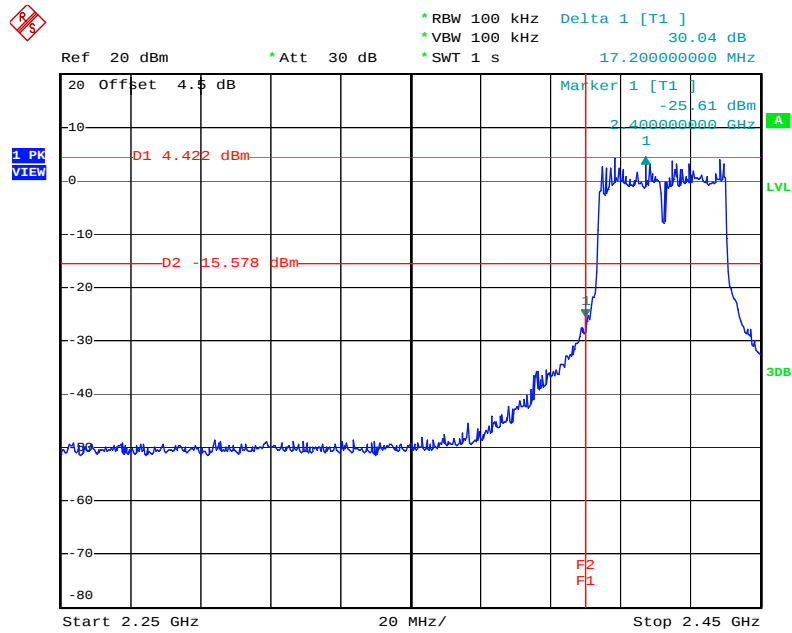
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High Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2462 MHz



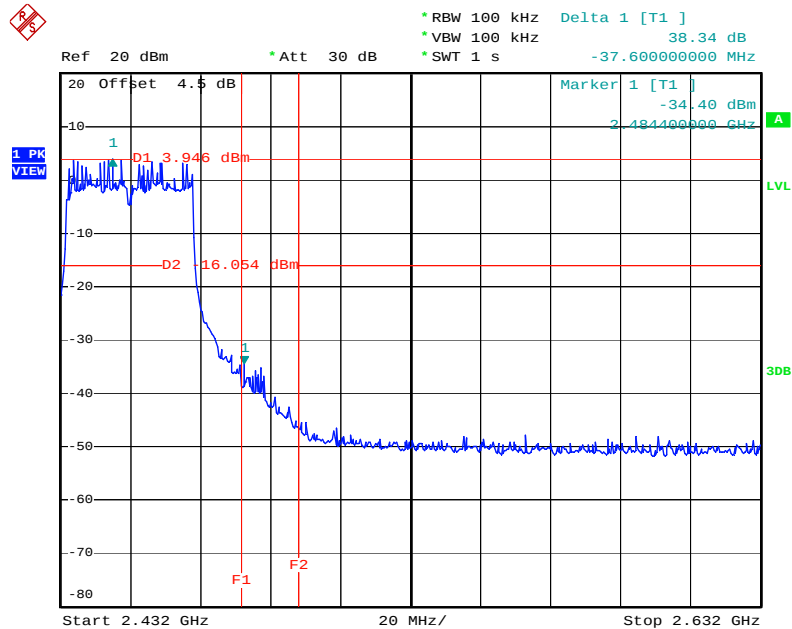
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Low Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2400 MHz



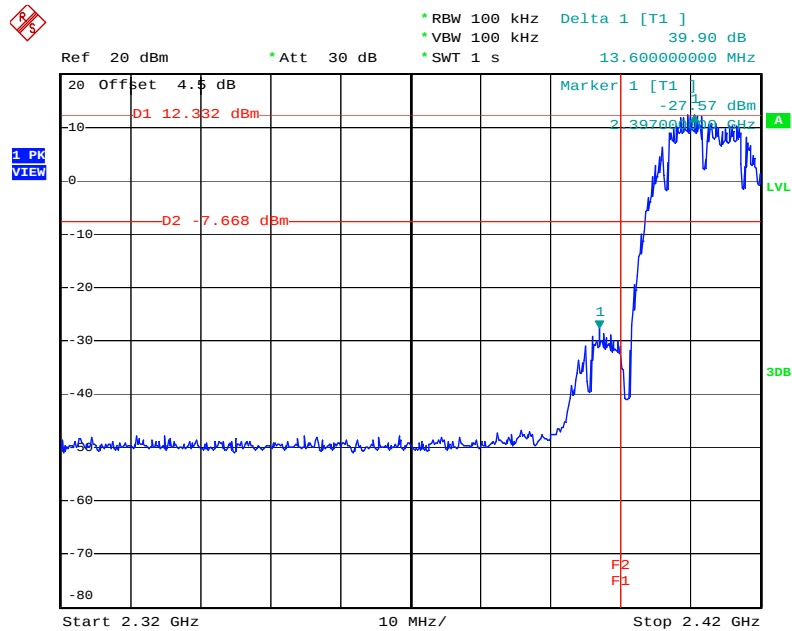
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High Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2452 MHz



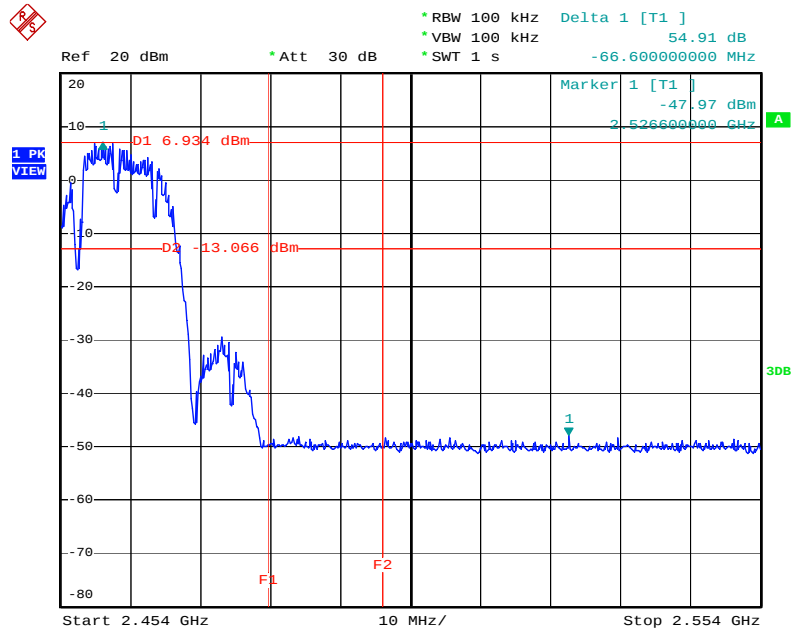
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Low Band Edge Plot on Configuration IEEE 802.11b / 2412 MHz



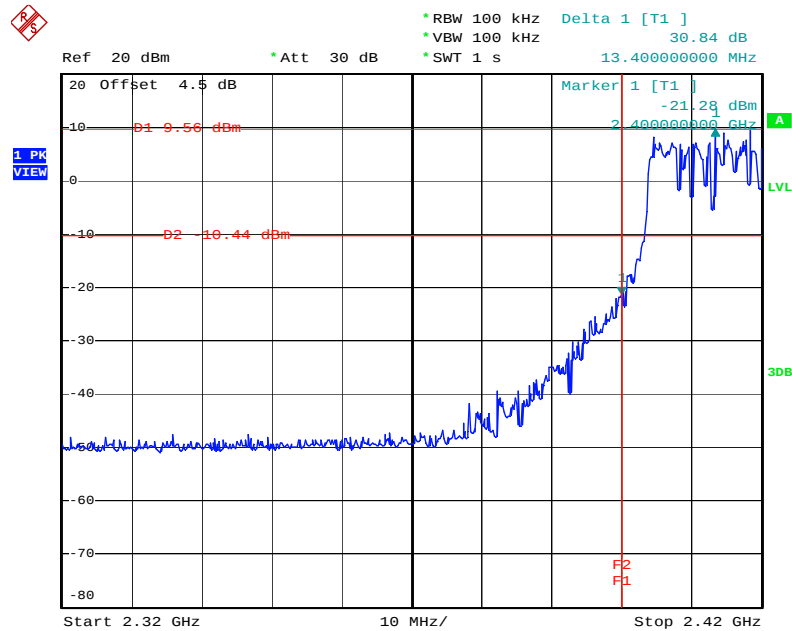
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High Band Edge Plot on Configuration IEEE 802.11b / 2462 MHz



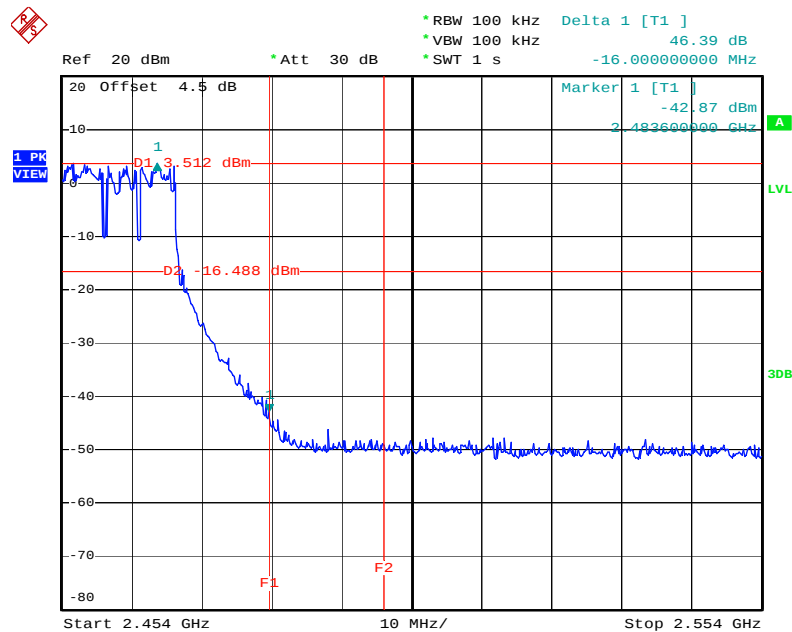
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Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz



Date: 26.APR.2010 17:41:40

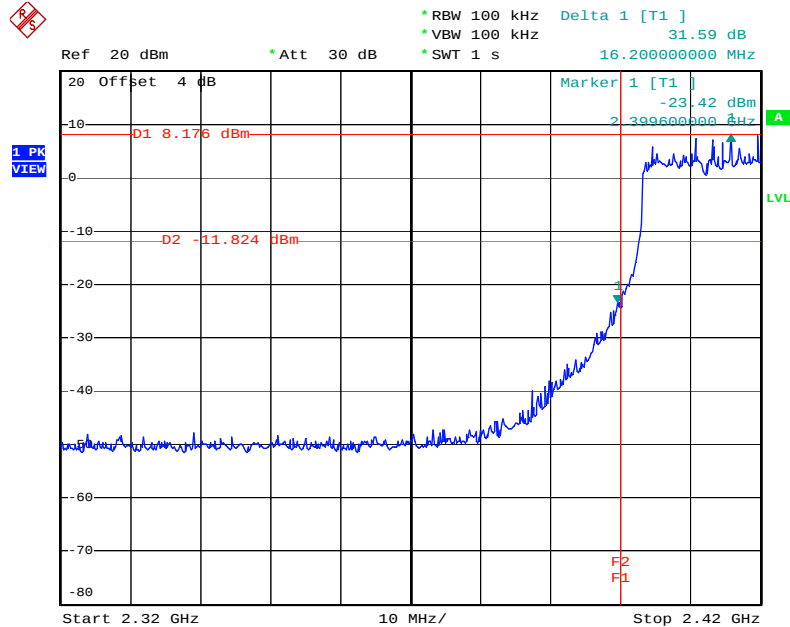
High Band Edge Plot on Configuration IEEE 802.11g / 2462 MHz



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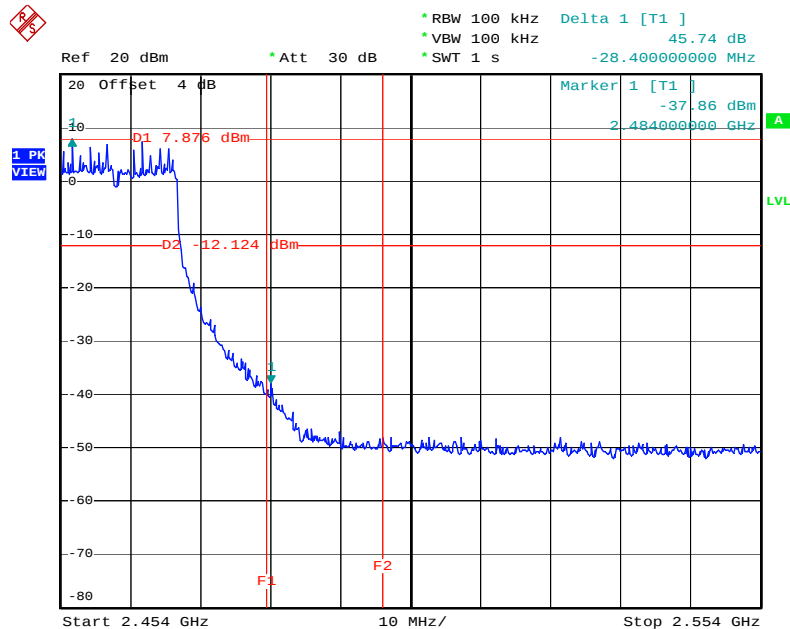
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Low Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2412 MHz



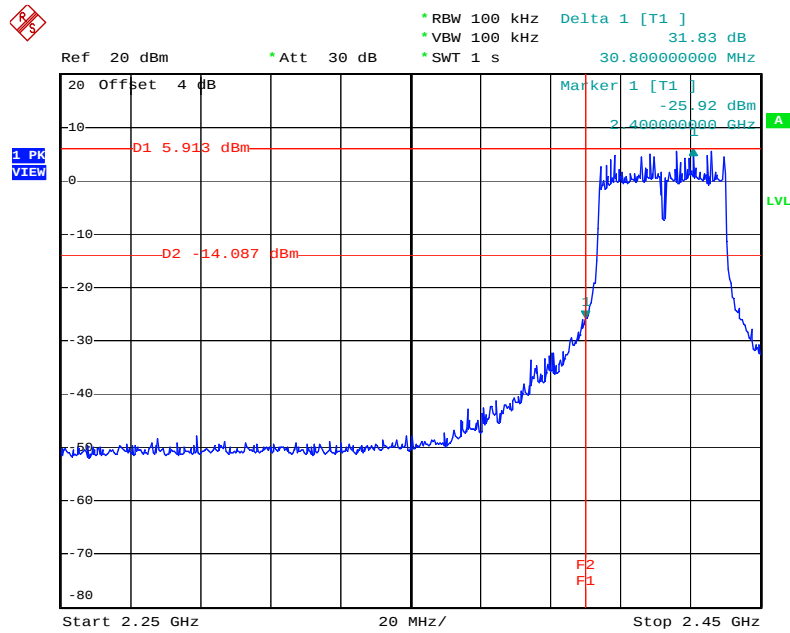
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High Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2462 MHz



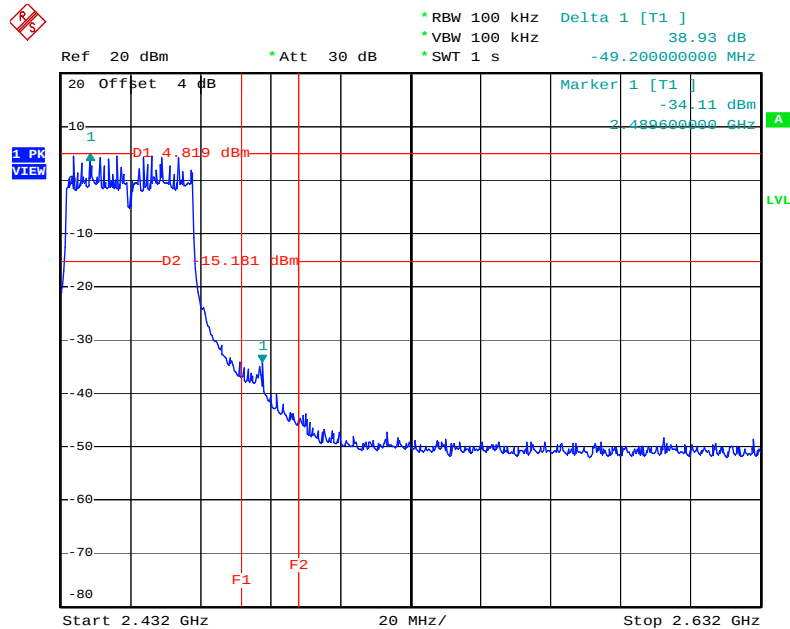
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Low Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2400 MHz



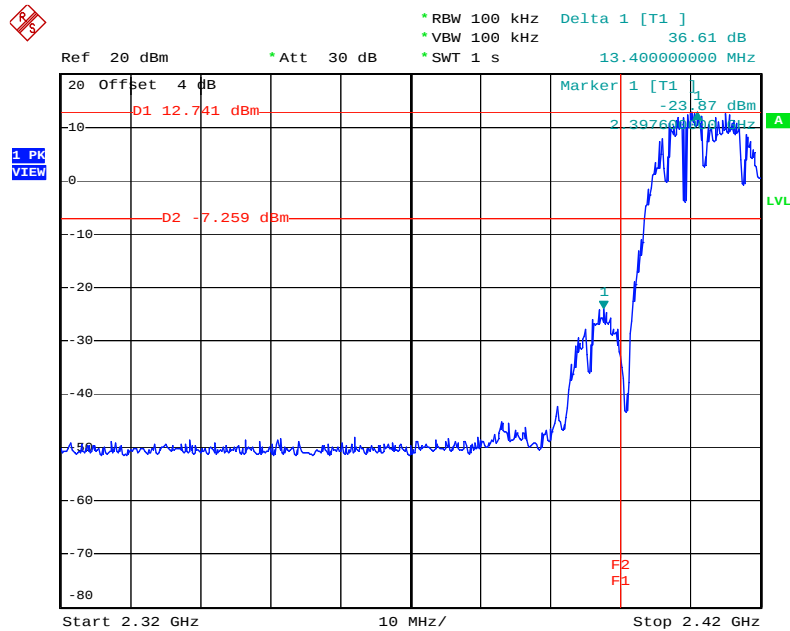
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High Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2452 MHz



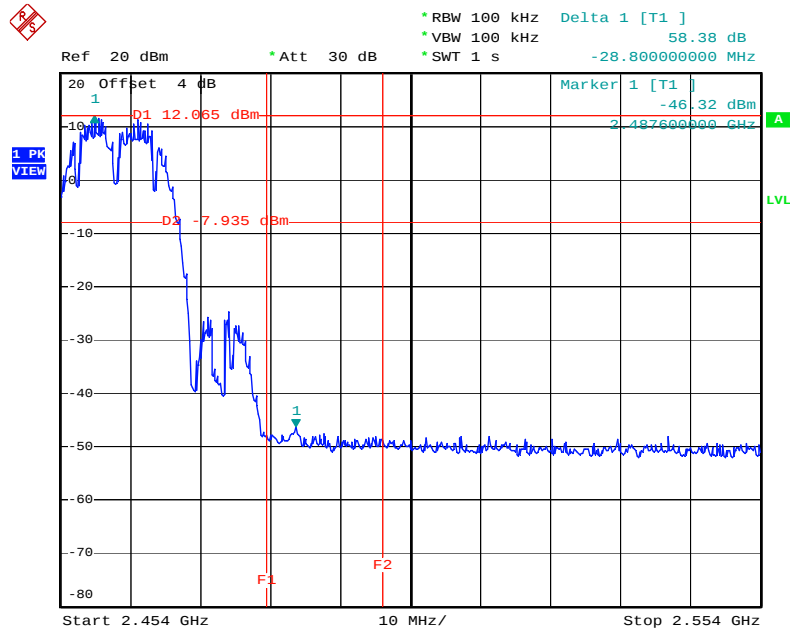
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Low Band Edge Plot on Configuration IEEE 802.11b / 2412 MHz



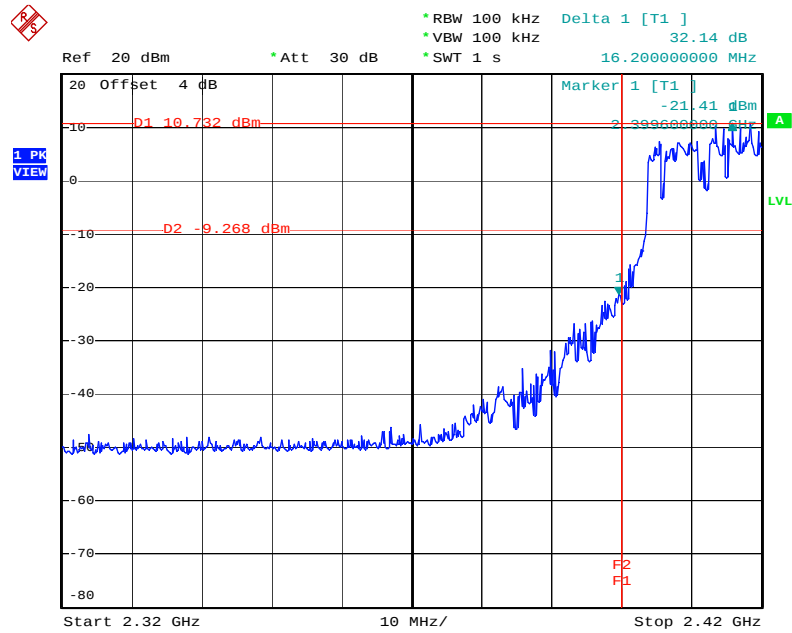
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High Band Edge Plot on Configuration IEEE 802.11b / 2462 MHz



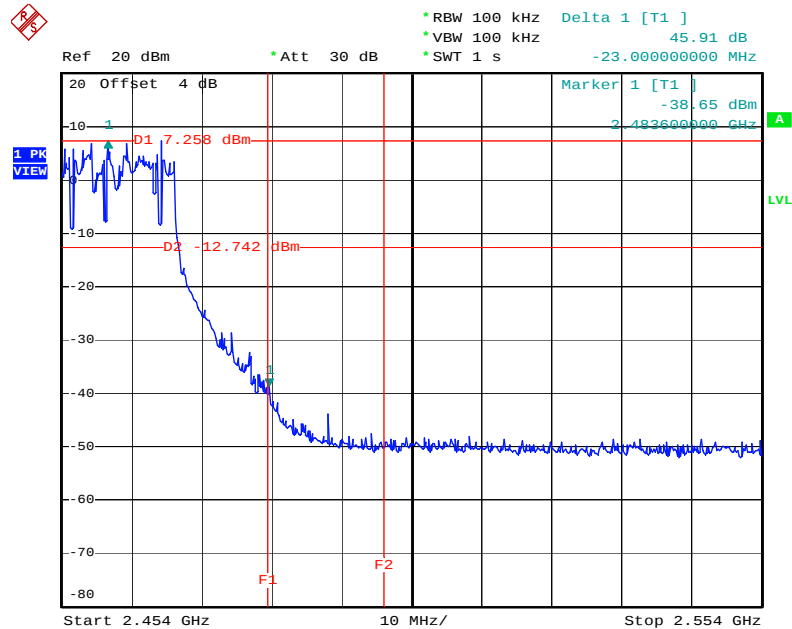
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Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz



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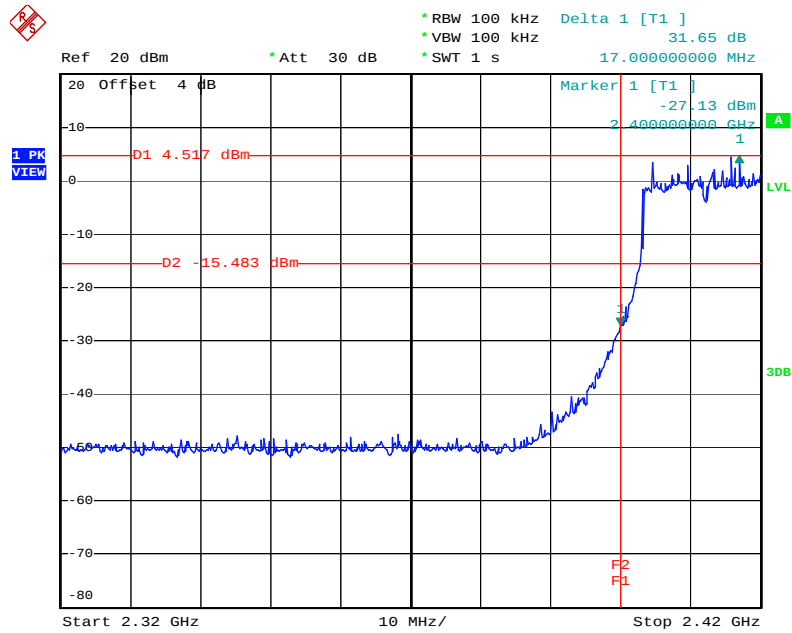
High Band Edge Plot on Configuration IEEE 802.11g / 2462 MHz



Date: 1.MAY.2010 19:00:01

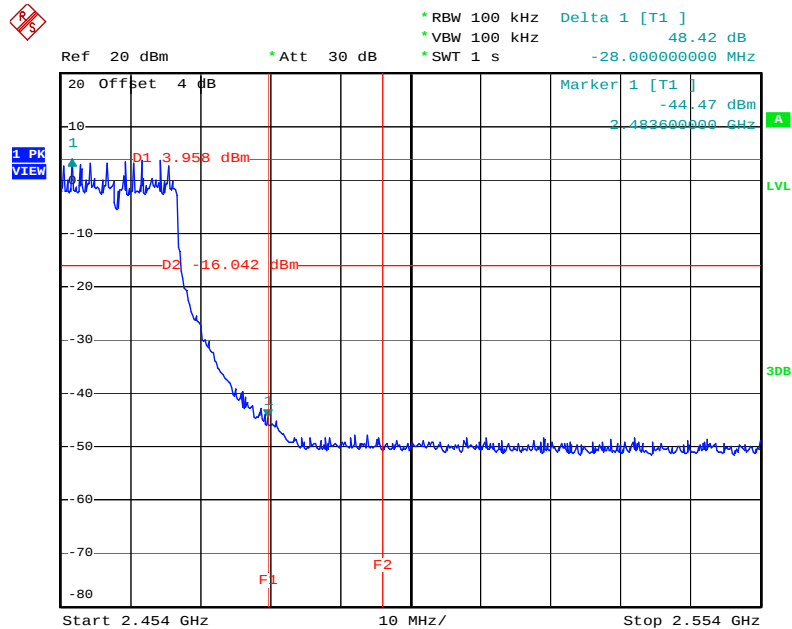
< For Ant. 3 >

Low Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2412 MHz



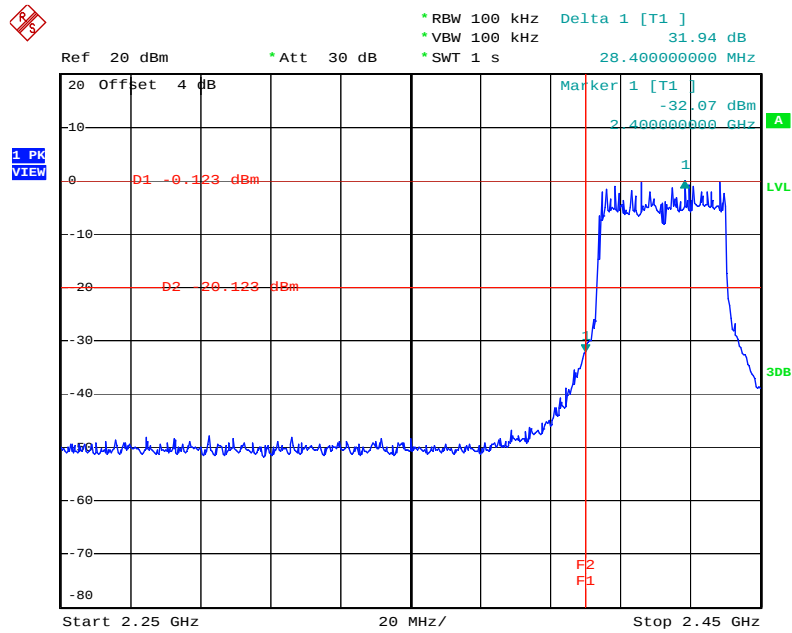
Date: 3.MAY.2010 19:23:34

High Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2462 MHz



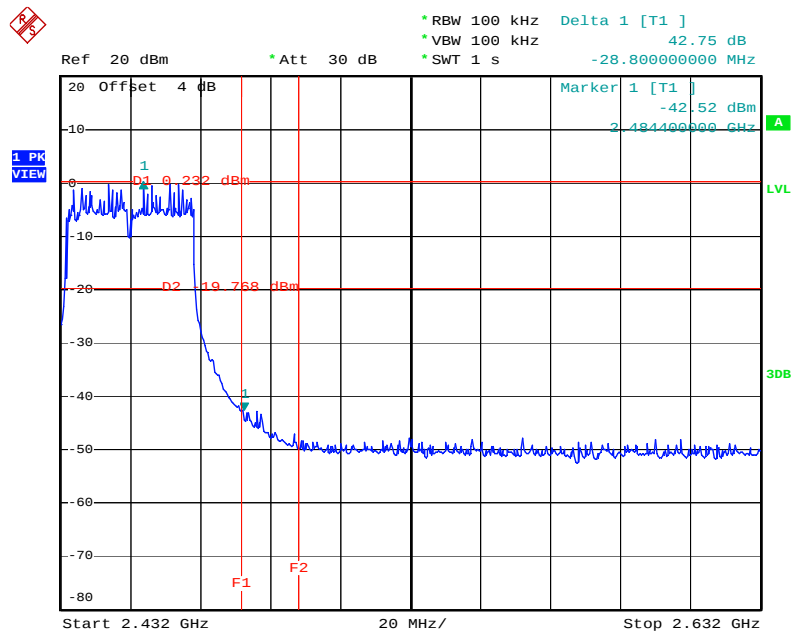
Date: 3.MAY.2010 19:25:44

Low Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2400 MHz



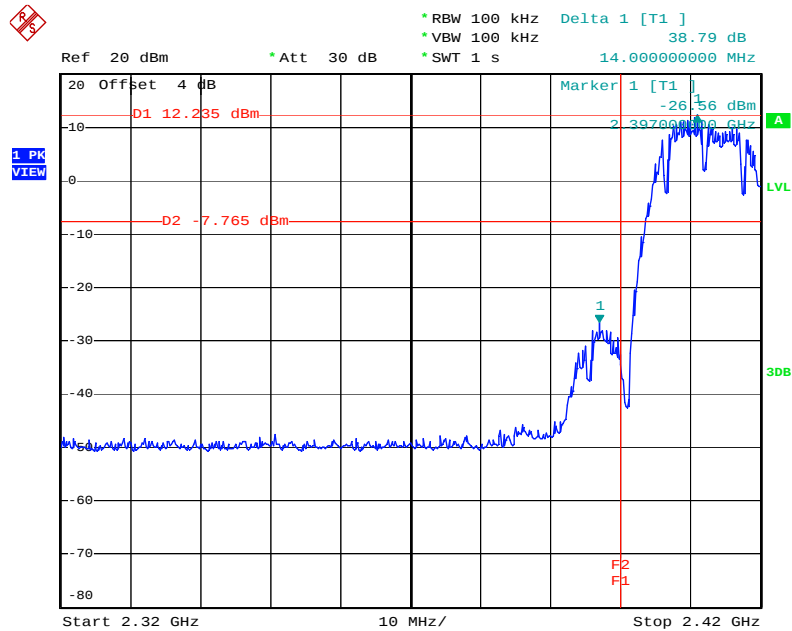
Date: 3.MAY.2010 19:32:33

High Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2452 MHz



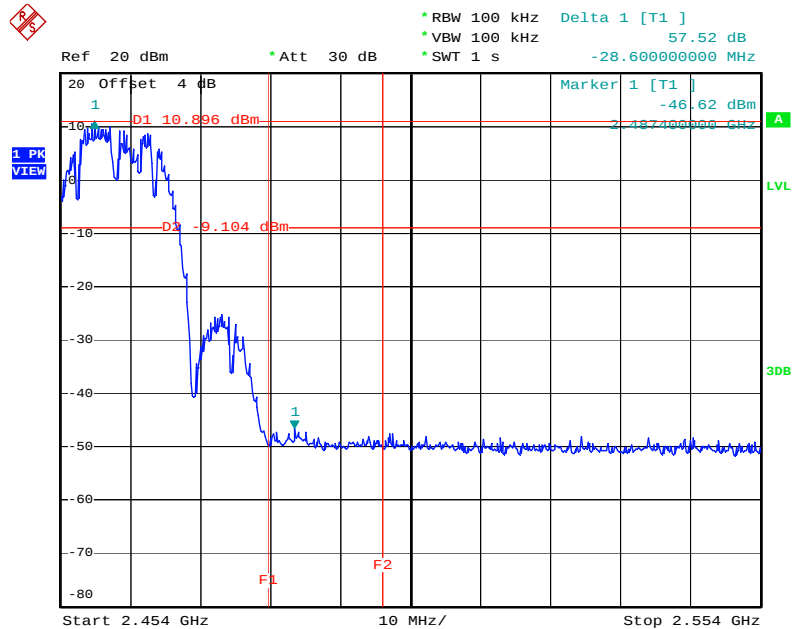
Date: 3.MAY.2010 19:28:05

Low Band Edge Plot on Configuration IEEE 802.11b / 2412 MHz



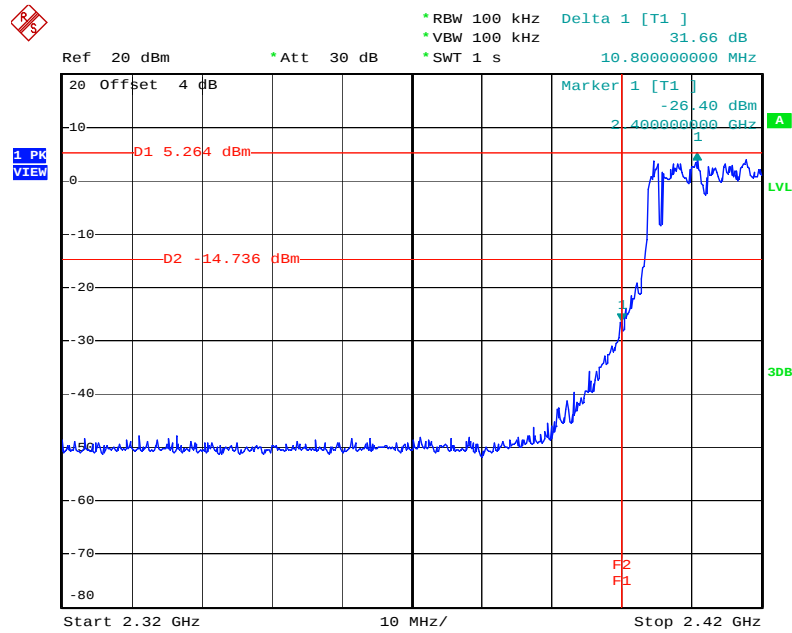
Date: 3.MAY.2010 19:54:35

High Band Edge Plot on Configuration IEEE 802.11b / 2462 MHz



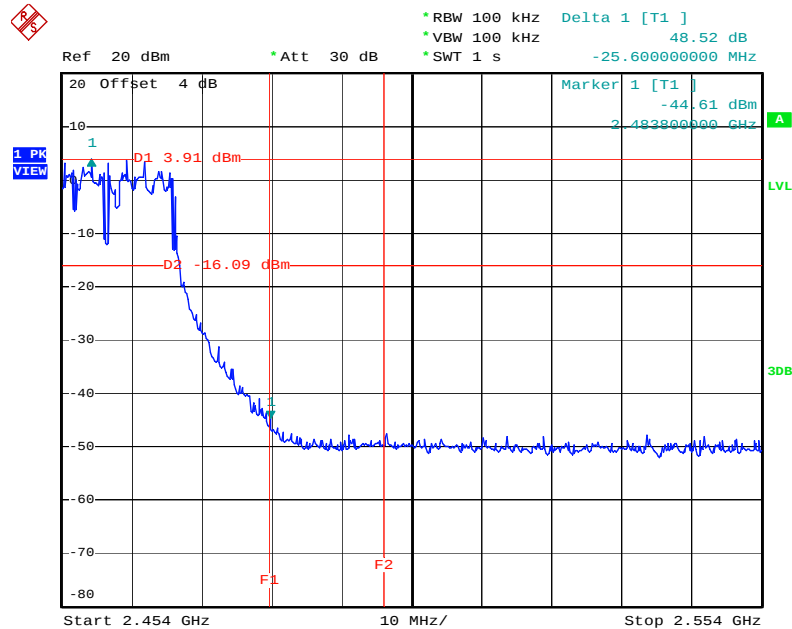
Date: 3.MAY.2010 19:53:13

Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz



Date: 3.MAY.2010 19:46:49

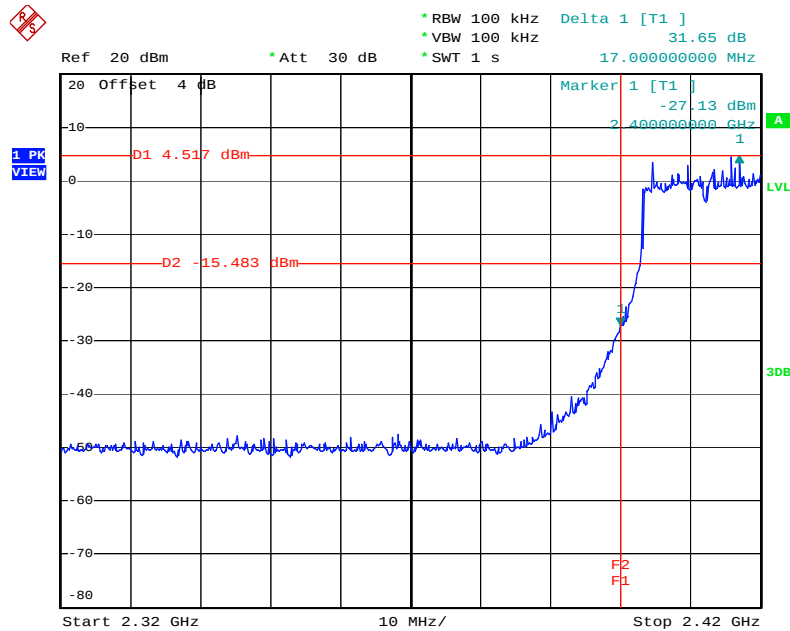
High Band Edge Plot on Configuration IEEE 802.11g / 2462 MHz



Date: 3.MAY.2010 19:51:50

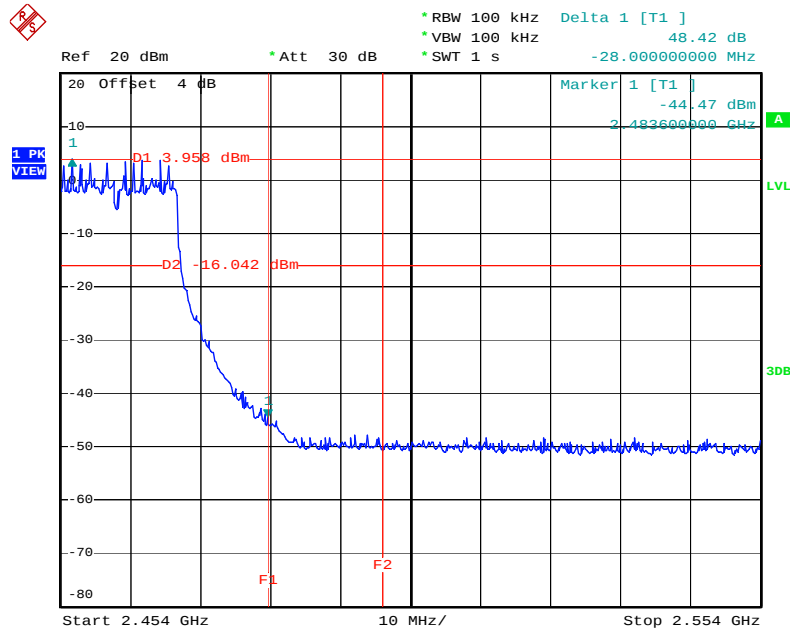
< For Ant. 4 >

Low Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2412 MHz



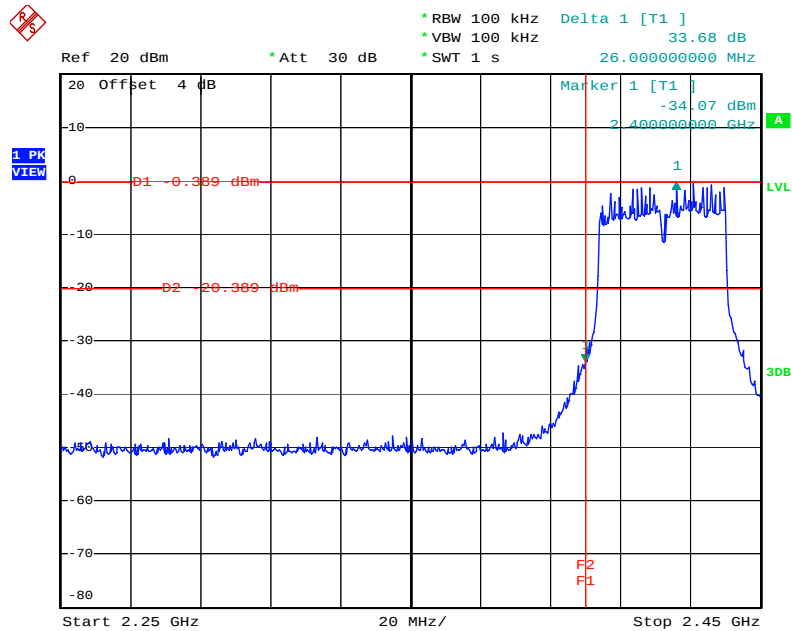
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High Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2462 MHz



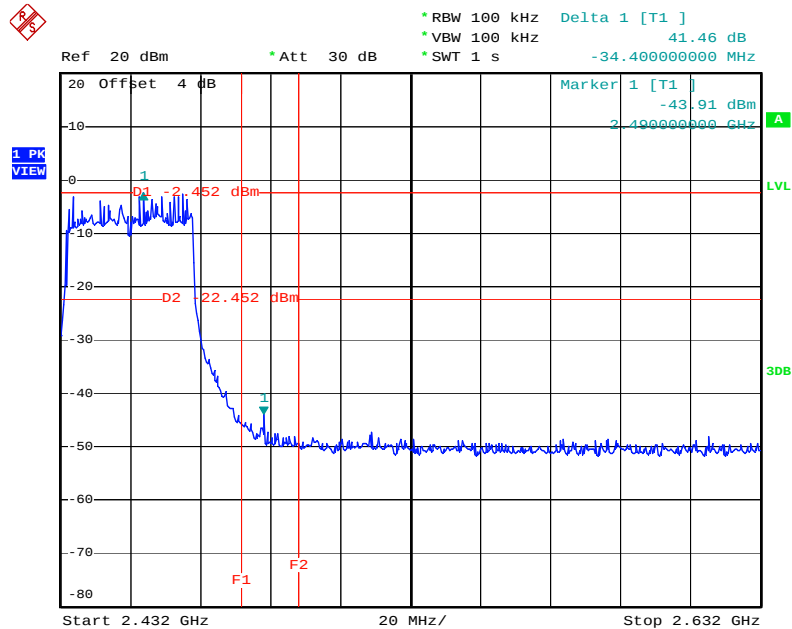
Date: 3.MAY.2010 19:25:44

Low Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2400 MHz



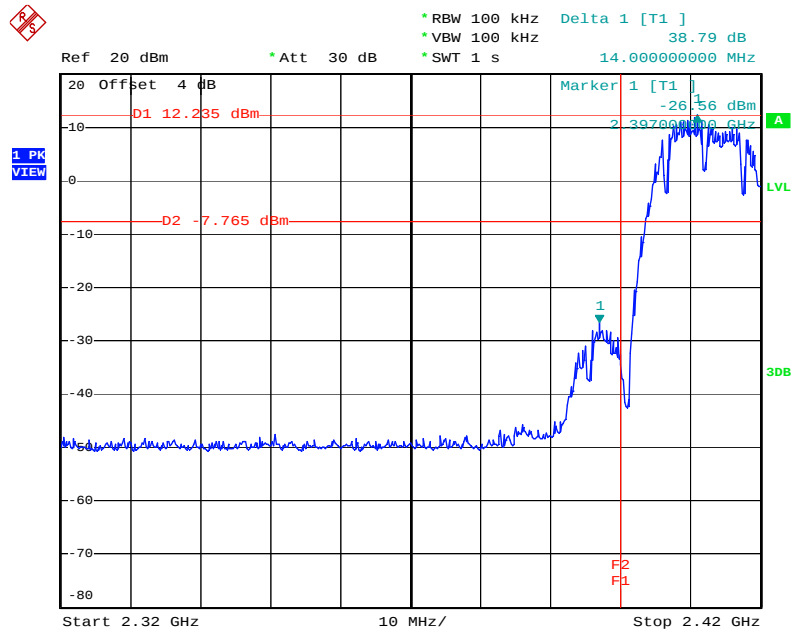
Date: 4.MAY.2010 13:45:19

High Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2452 MHz



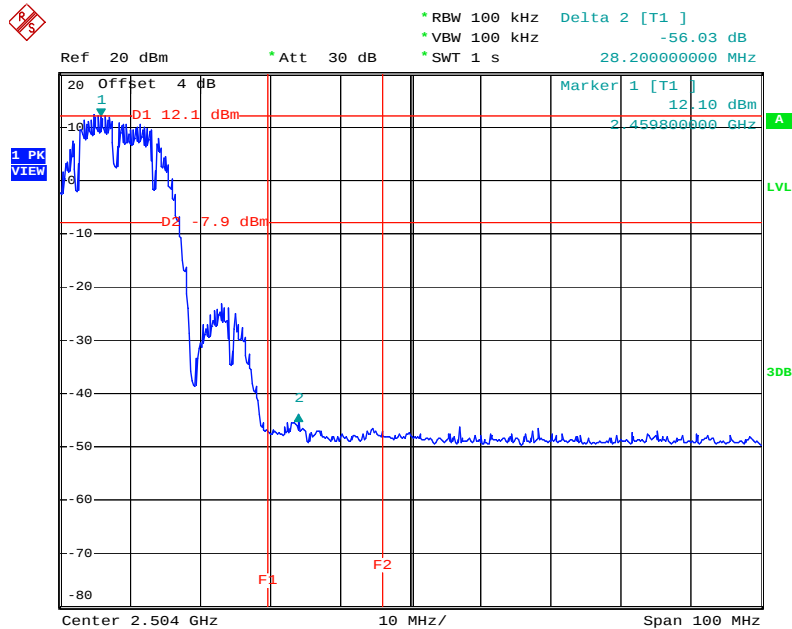
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Low Band Edge Plot on Configuration IEEE 802.11b / 2412 MHz



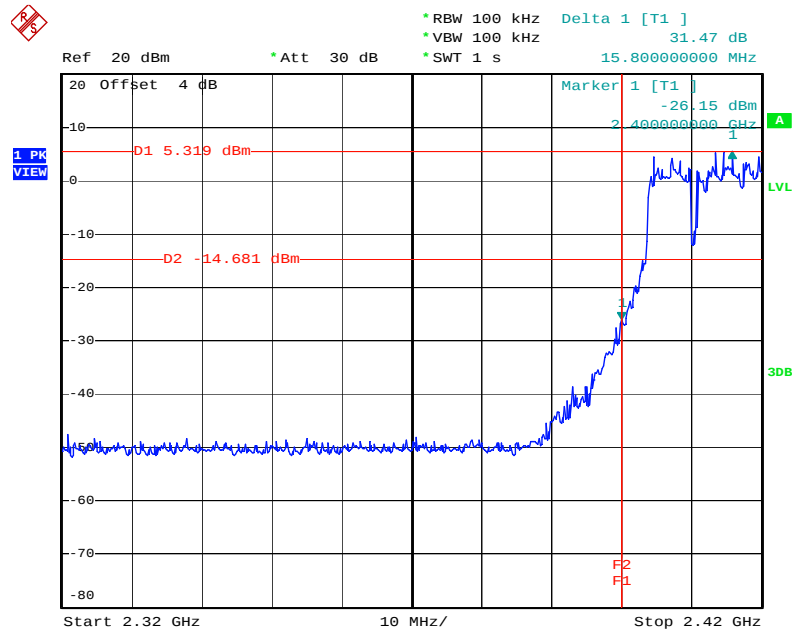
Date: 3.MAY.2010 19:54:35

High Band Edge Plot on Configuration IEEE 802.11b / 2462 MHz



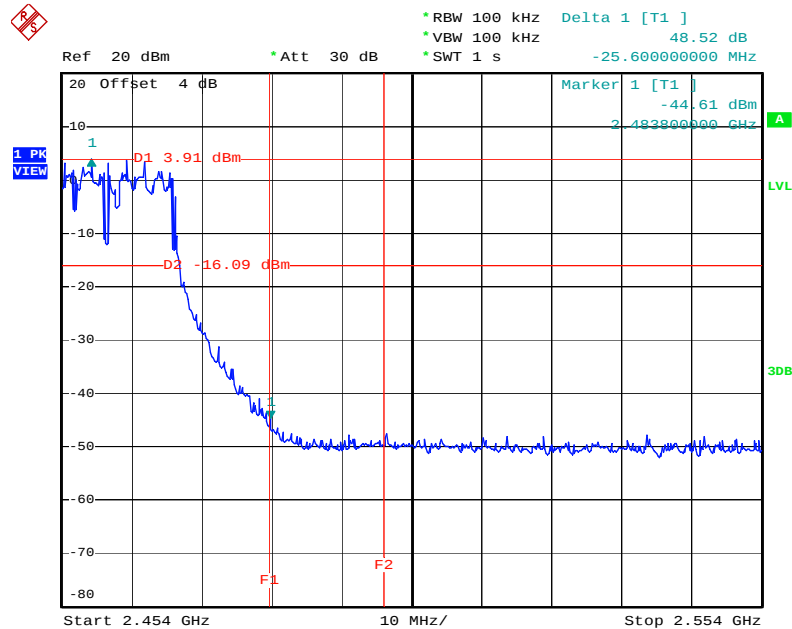
Date: 4.MAY.2010 14:06:43

Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz



Date: 4.MAY.2010 13:57:41

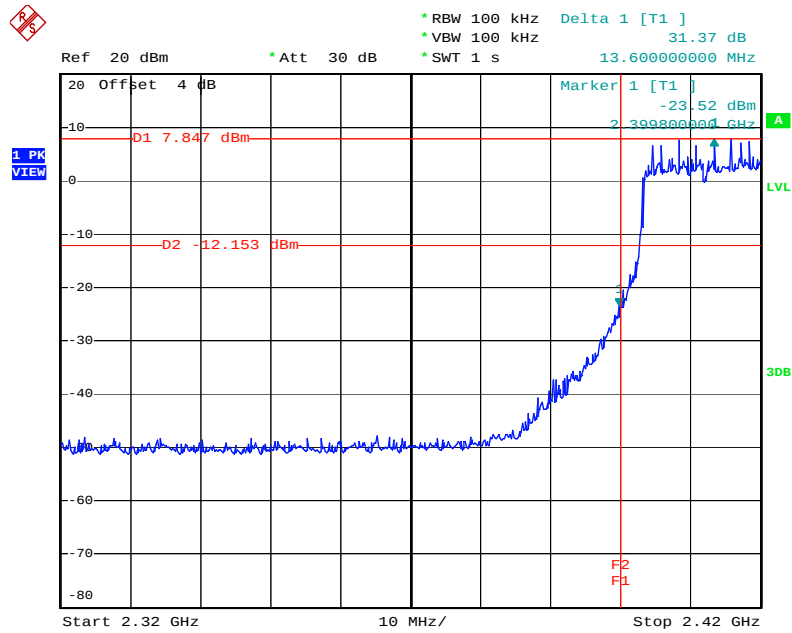
High Band Edge Plot on Configuration IEEE 802.11g / 2462 MHz



Date: 3.MAY.2010 19:51:50

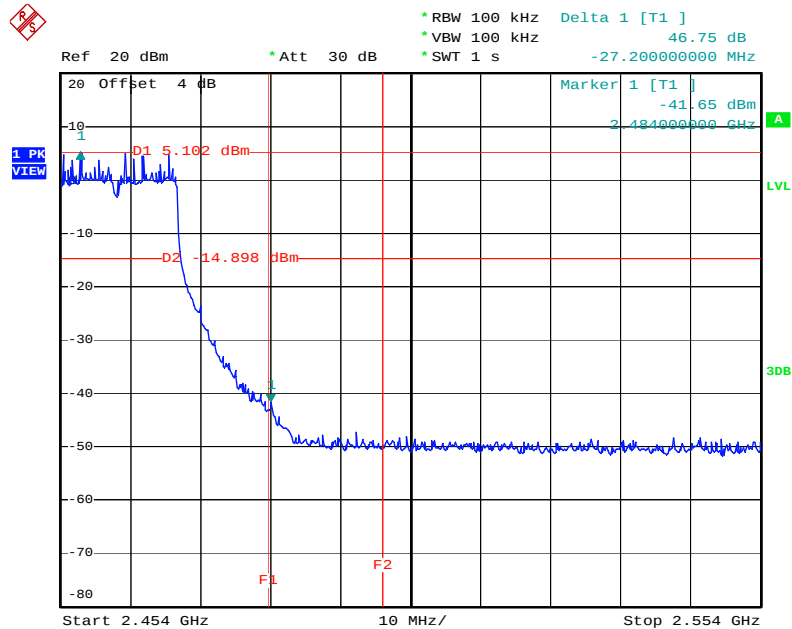
< For Ant. 6 >

Low Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2412 MHz



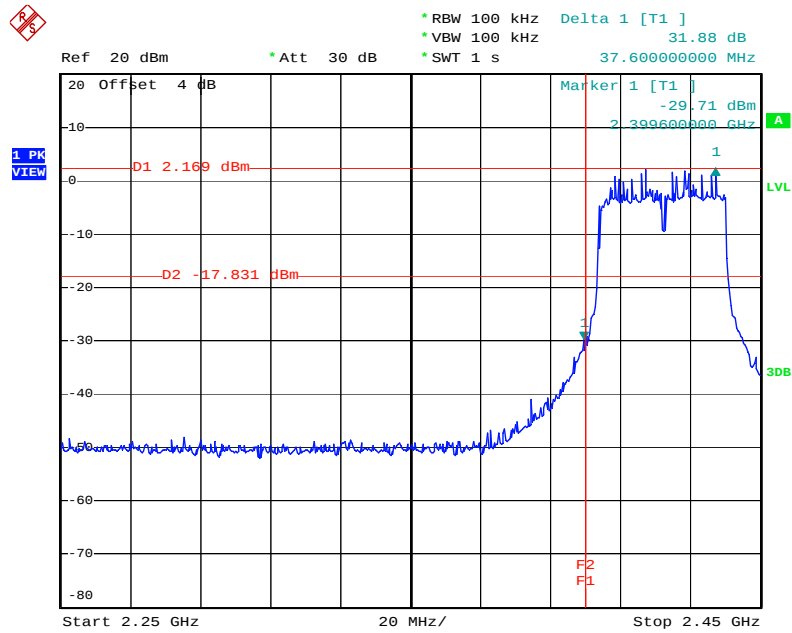
Date: 5.MAY.2010 10:27:27

High Band Edge Plot on Configuration IEEE 802.11n MCS8 20MHz / 2462 MHz



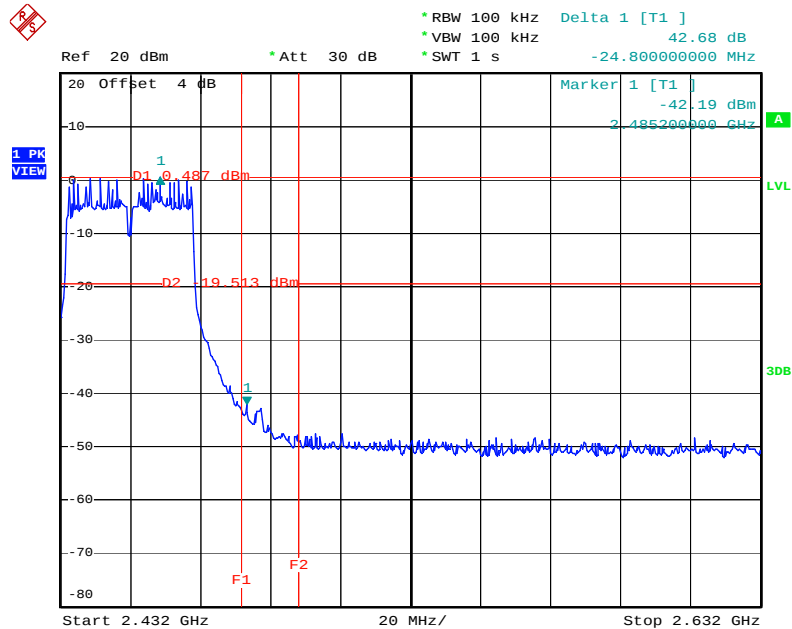
Date: 5.MAY.2010 10:32:31

Low Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2400 MHz



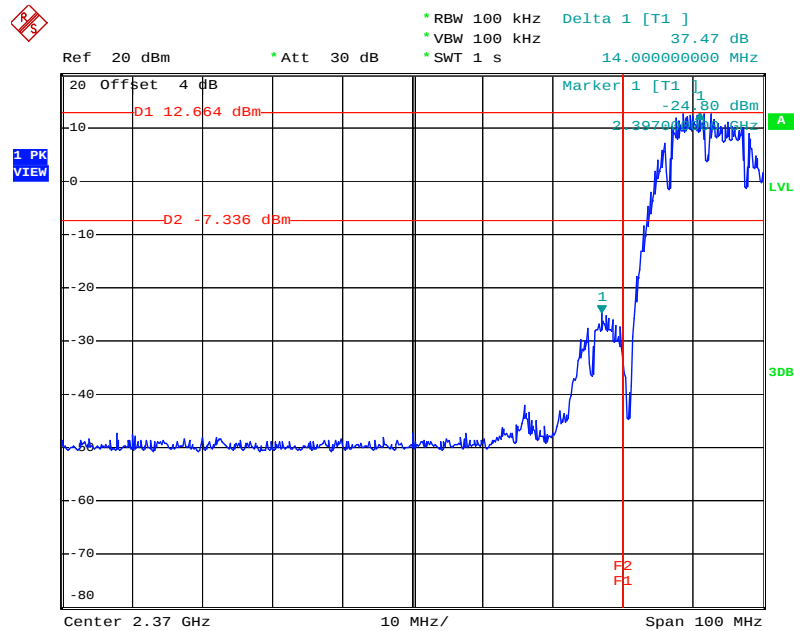
Date: 5.MAY.2010 10:16:19

High Band Edge Plot on Configuration IEEE 802.11n MCS8 40MHz / 2452 MHz



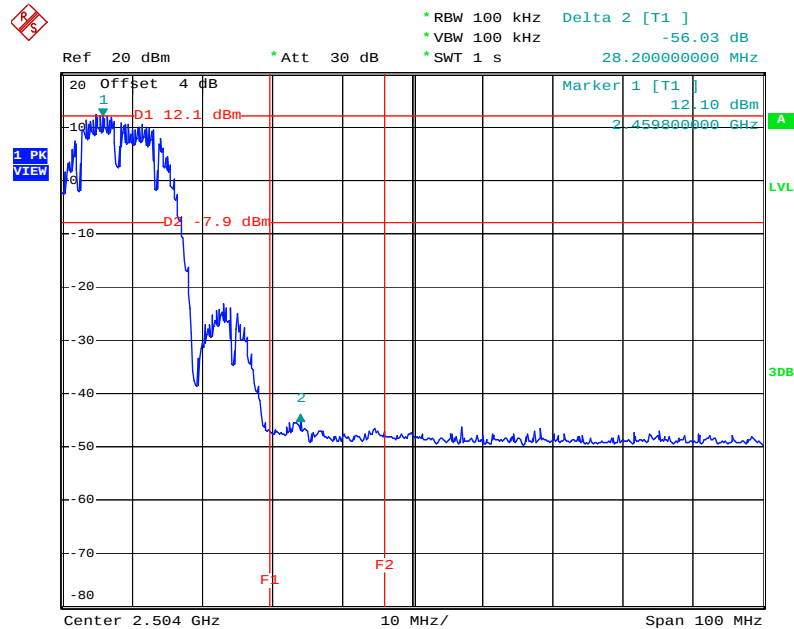
Date: 5.MAY.2010 10:11:59

Low Band Edge Plot on Configuration IEEE 802.11b / 2412 MHz



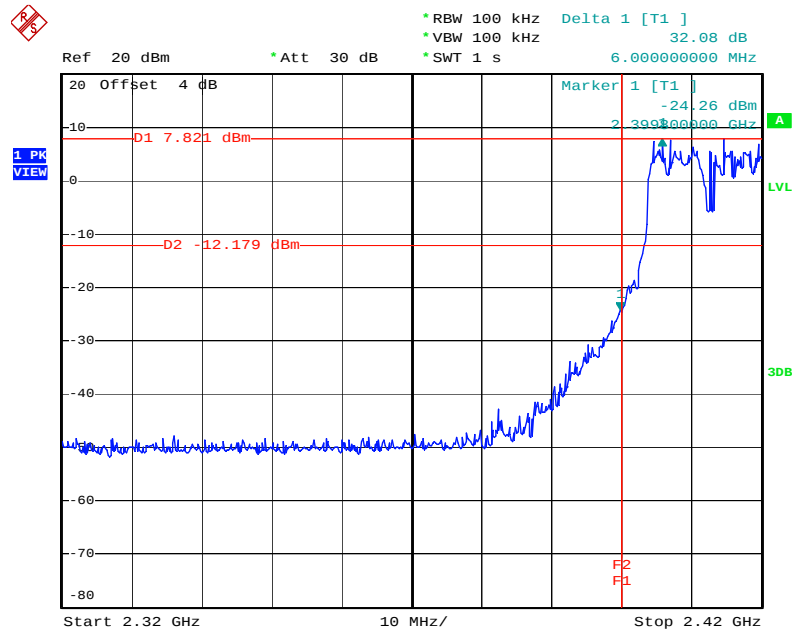
Date: 5.MAY.2010 10:45:26

High Band Edge Plot on Configuration IEEE 802.11b / 2462 MHz



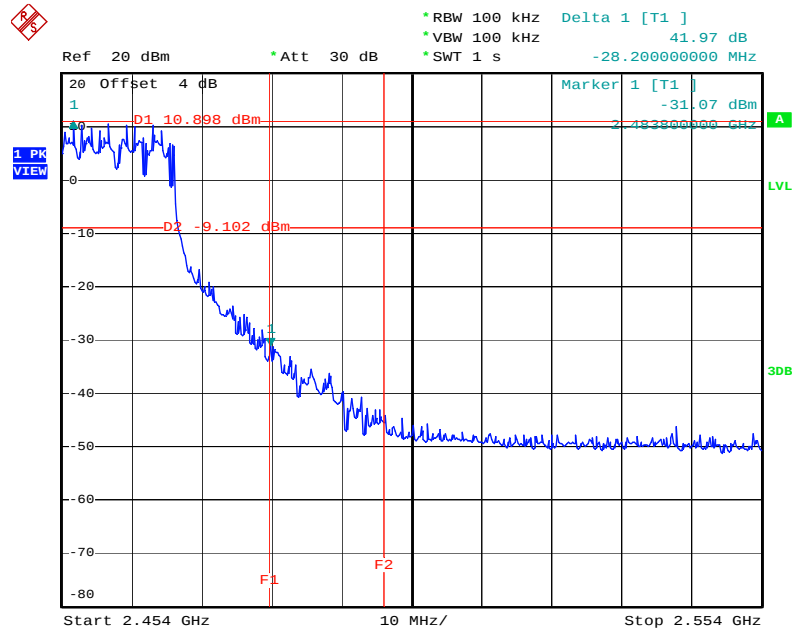
Date: 4.MAY.2010 14:06:43

Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz



Date: 5.MAY.2010 10:39:45

High Band Edge Plot on Configuration IEEE 802.11g / 2462 MHz



Date: 5.MAY.2010 10:35:15

4.7. Antenna Requirements

4.7.1. 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.

4.7.2. 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
EMC Receiver	R&S	ESCS 30	100174	9kHz – 2.75GHz	Apr. 06, 2010	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99041	9kHz – 30MHz	Mar. 23, 2010	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Apr. 29, 2010	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2010	Conduction (CO04-HY)
ISN	SCHAFFNER	ISN T400	21653	9kHz – 30MHz	Jun. 10, 2010	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30 MHz - 1 GHz 3m	Jun. 07, 2009	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, 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)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
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)
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., Neihu 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