SPORTON International Inc.
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FCC RADIO TEST REPORT

Applicant's company	**Ralink Technology Corporation**
Applicant Address	5F., No.36, Taiyuan St., Jhubei City, Hsinchu County 302, Taiwan, R.O.C.
FCC ID	**VQF-RT3070HMC**
Manufacturer's company	**Ralink Technology Corporation**
Manufacturer Address	5F., No.36, Taiyuan St., Jhubei City, Hsinchu County 302, Taiwan, R.O.C.

Product Name	11b/g/n 1T1R WLAN Mini Card
Brand Name	Ralink
Model Name	RT3070HMC
Test Rule	47 CFR FCC Part 15 Subpart C § 15.247
Test Freq. Range	2400 ~ 2483.5MHz
Received Date	Sep. 23, 2009
Final Test Date	Oct. 13, 2009
Submission Type	Original Equipment

Statement

Test result included in this report is for the Draft n and 802.11b/g part 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.

Testing Laboratory
1190

Table of Contents

History of This Test Report

Original Issue Date: Oct. 13, 2009

Report No.: FR9O0118

■ No additional attachment.

□ Additional attachment were issued as following record:

Attachment No.	Issue Date	Description

Certificate No.: CB9810023

1. CERTIFICATE OF COMPLIANCE

Product Name	:	11b/g/n 1T1R WLAN Mini Card
Brand Name	:	Ralink
Model Name	:	RT3070HMC
Applicant	:	Ralink Technology Corporation
Test Rule Part(s)	:	47 CFR FCC Part 15 Subpart C § 15.247

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Sep. 23, 2009 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.

Jordan Hsiao 2009. 10.14

Jordan Hsiao
SPORTON INTERNATIONAL INC.

2. SUMMARY OF THE TEST RESULT

Applied Standard: 47 CFR FCC Part 15 Subpart C				
Part	**Rule Section**	**Description of Test**	**Result**	**Under Limit**
4.1	15.207	AC Power Line Conducted Emissions	Complies	9.29 dB
4.2	15.247(b)(3)	Maximum Conducted Output Power	Complies	5.09 dB
4.3	15.247(e)	Power Spectral Density	Complies	17.13 dB
4.4	15.247(a)(2)	6dB Spectrum Bandwidth	Complies	-
4.5	15.247(d)	Radiated Emissions	Complies	0.03 dB
4.6	15.247(d)	Band Edge Emissions	Complies	0.19 dB
4.7	15.203	Antenna Requirements	Complies	-

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	±2.3dB	Confidence levels of 95%
Maximum Conducted Output Power	±0.8dB	Confidence levels of 95%
Power Spectral Density	±0.5dB	Confidence levels of 95%
6dB Spectrum Bandwidth	$\pm 8.5\times10^{-8}$	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℃	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

Draft n

Items	Description
Product Type	WLAN (1TX, 1RX)
Radio Type	Intentional Transceiver
Power Type	From host system
Modulation	see the below table for draft n
Data Modulation	OFDM (BPSK / QPSK / 16QAM / 64QAM)
Data Rate (Mbps)	see the below table for Draft n
Frequency Range	2400 ~ 2483.5MHz
Channel Number	11 for 20MHz bandwidth ; 7 for 40MHz bandwidth
Channel Band Width (99%)	MCS0 (20MHz): 17.60 MHz ; MCS0 (40MHz): 36.08 MHz
Conducted Output Power	MCS0 (20MHz): 24.90 dBm ; MCS0 (40MHz): 24.91 dBm
Carrier Frequencies	Please refer to section 3.4
Antenna	Please refer to section 3.3

802.11b/g

Items	Description
Product Type	WLAN (1TX, 1RX)
Radio Type	Intentional Transceiver
Power Type	From host system
Modulation	DSSS for IEEE 802.11b ; OFDM for IEEE 802.11g
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
Channel Number	11
Channel Band Width (99%)	11b: 14.44 MHz ; 11g: 16.44 MHz
Conducted Output Power	11b: 22.26 dBm ; 11g: 24.75 dBm
Carrier Frequencies	Please refer to section 3.4
Antenna	Please refer to section 3.3

Antenna & Band width

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

Draft n 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	Antenna Type	Connector	Gain (dBi)	Remark
A-1	JOYMAX	IFF-A005MPRX-207	PIFA Antenna	I-PEX	5.32	TX/RX
A-2	JOYMAX	IFF-A005MPRX-207	PIFA Antenna	I-PEX	5.32	TX/RX
B-1	JOYMAX	TWX-614XSAXX-500	Dipole Antenna	I-PEX	2.5	TX/RX
B-2	JOYMAX	TWX-614XSAXX-500	Dipole Antenna	I-PEX	2.5	TX/RX

Note: There are two types of EUT.

EUT1 with one antenna connector.

EUT2 with two antenna connectors.

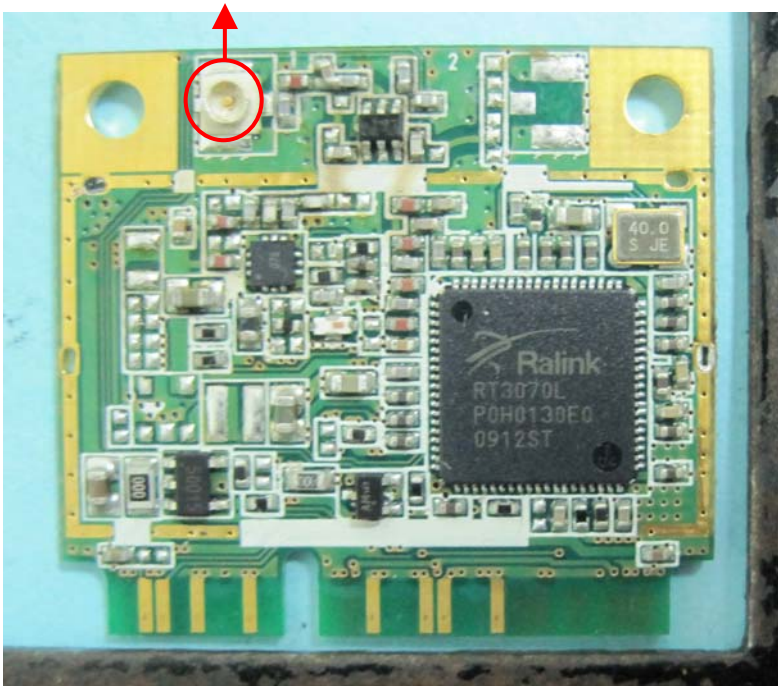
Please refer to the photos below for their configurations.

Note: There are 9 antennas provided to this EUT, please refer to Appendix C for further information.

Due to ant. A and B mentioned above are the highest gain value among two different types, only ant A and B were tested and recorded in this test report.

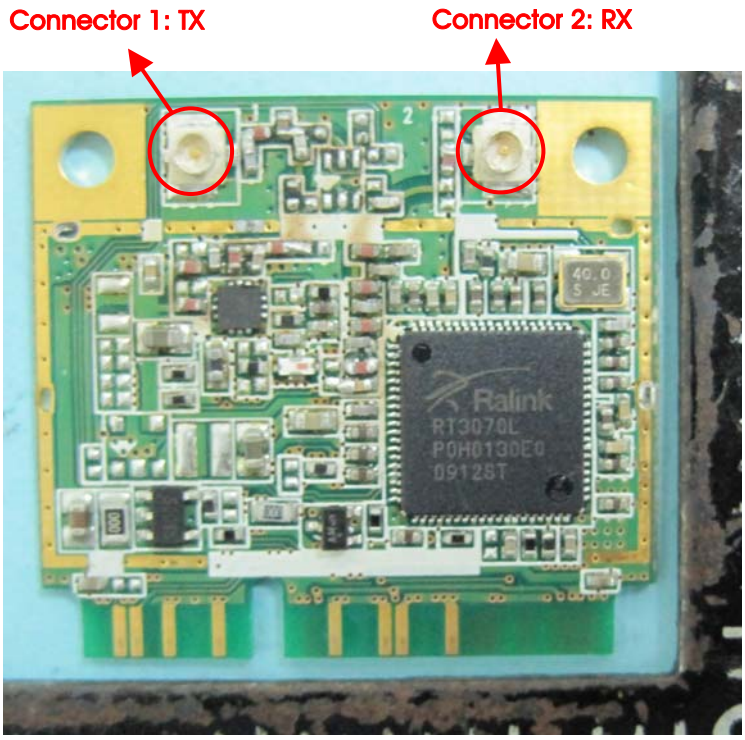
For EUT 1:

Connector 1: TX/RX



Connector 1 has both TX/RX function.

For EUT 2:



Connector 1 only has TX function.

Connector 2 only has RX function.

3.4. Table for Carrier Frequencies

There are two bandwidth systems for draft n.

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		

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.

Test Items	Mode	Data Rate	Channel	Ant. Connector
AC Power Line Conducted Emissions	Normal Link	-	-	-
Maximum Peak Conducted Output Power	MCS0/20MHz	6.5 Mbps	1/6/11	1
	MCS0/40MHz	13.5 Mbps	3/6/9	1
	11b/BPSK	1 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
Power Spectral Density 6dB Spectrum Bandwidth	MCS0/20MHz	6.5 Mbps	1/6/11	1
	MCS0/40MHz	13.5 Mbps	3/6/9	1
	11b/BPSK	1 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
Radiated Emissions 9kHz~1GHz	Normal Link	-	-	-
Radiated Emissions 1GHz~10th Harmonic	MCS0/20MHz	6.5 Mbps	1/6/11	1
	MCS0/40MHz	13.5 Mbps	3/6/9	1
	11b/BPSK	1 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
Band Edge Emissions	MCS0/20MHz	6.5 Mbps	1/11	1
	MCS0/40MHz	13.5 Mbps	3/9	1
	11b/BPSK	1 Mbps	1/11	1
	11g/BPSK	6 Mbps	1/11	1

The following test modes were performed for all tests:

Mode 1. EUT 1 with PIFA antenna

Mode 2. EUT 2 with PIFA antenna

Mode 3. EUT 1 with Dipole antenna

Mode 4. EUT 2 with Dipole antenna

For Conducted Emission test:

Due to Mode 1 and Mode 3 generated the worst test result, so it was recorded in this report.

For Radiated Emission tests:

Due to Mode 2 and Mode 4 generated the worst test result, so it was recorded in this report.

For Maximum Peak Conducted Output Power, Power Spectral Density and 6dB Spectrum Bandwidth test:

The difference between EUT 1 and EUT 2 is antenna connector, but their internal structure are identical.

Due to EUT 2 generated the worst test result, so only EUT 2 was tested and recorded.

Due to Mode 2 and Mode 4 generated the worst test result, so it was recorded in this report.

Note: During test, the extend-card was added the absorber to conform with customer's test request.

3.6. Table for Testing Locations

Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.	VCCI Reg. No
03CH03-HY	SAC	Hwa Ya	480872	IC 4088	-
CO04-HY	Conduction	Hwa Ya	480872	IC 4088	-
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 Supporting Units

Support Unit	Brand	Model	FCC ID
Notebook	DELL	PP25L	E2K4965AGNM
Mouse	iCooky	AMS0706W	DoC
Modem	ACEEX	DM1414	IFAXDM1414
Wireless AP	Planex	GW-AP54SGX	N/A

3.8. 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 EUT 2 with PIFA antenna >

Power Parameters of Draft n MCS0 20MHz

Test Software Version	QA		
Frequency	2412 MHz	2437 MHz	2462 MHz
MCS0 20MHz	1E	1F	1E
Frequency	2422 MHz	2437 MHz	2452 MHz
MCS0 40MHz	19	1F	1A

Power Parameters of IEEE 802.11b/g

Test Software Version	QA		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	18	18	1B
IEEE 802.11g	1E	1F	1F

<For EUT 2 with Dipole antenna >

Power Parameters of Draft n MCS0 20MHz

Test Software Version	QA		
Frequency	2412 MHz	2437 MHz	2462 MHz
MCS0 20MHz	1F	1F	1E
Frequency	2422 MHz	2437 MHz	2452 MHz
MCS0 40MHz	1C	1F	15

Power Parameters of IEEE 802.11b/g

Test Software Version	QA		
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b	19	19	18
IEEE 802.11g	1F	1F	1E

During the test, the following programs under WIN XP were executed:

Executed "ping.exe" to link with the remote workstation to receive and transmit signal by LAN and WLAN.

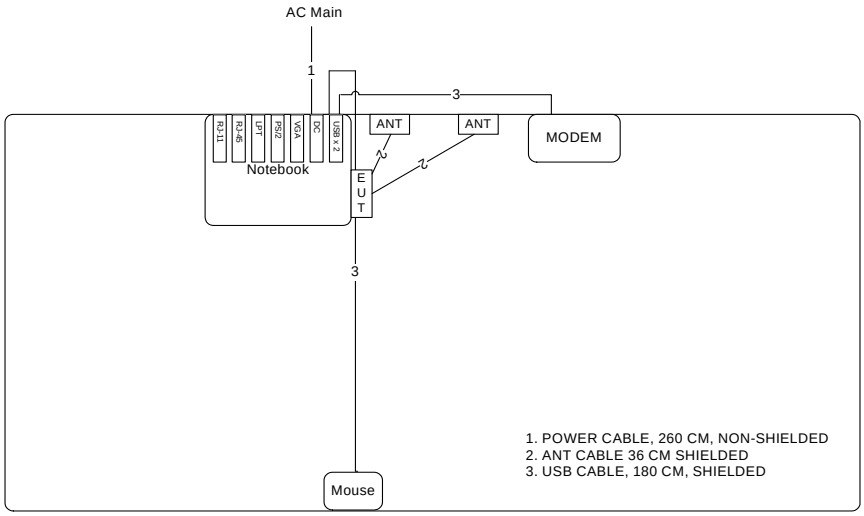
Executed “QA” the test program to control the EUT continuously transmit RF signal.

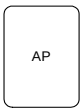
3.9. Test Configurations

3.9.1. Radiation Emissions Test Configuration

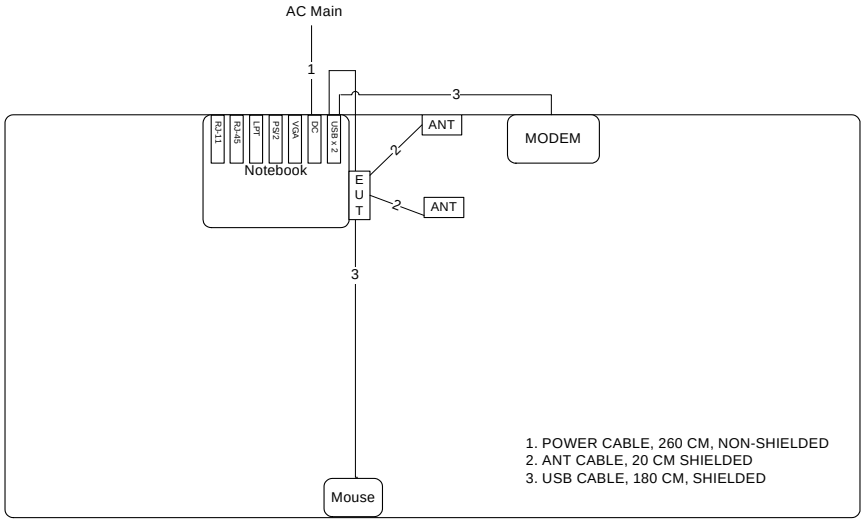
Test Configuration: 9KHz~1GHz

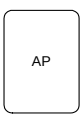
Test Mode: Mode 2





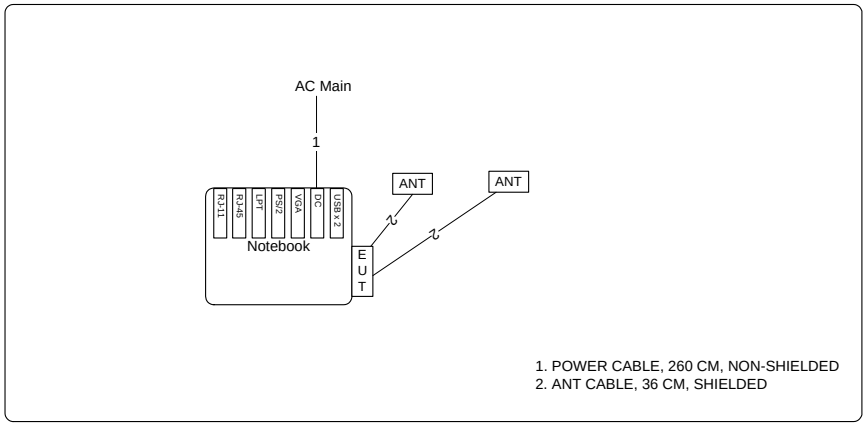
Test Mode: Mode 4



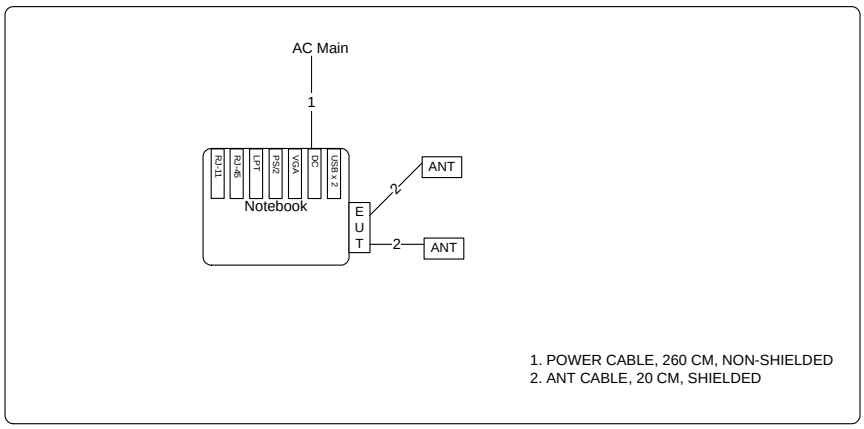


Test Configuration: above 1GHz

Test Mode: Mode 2

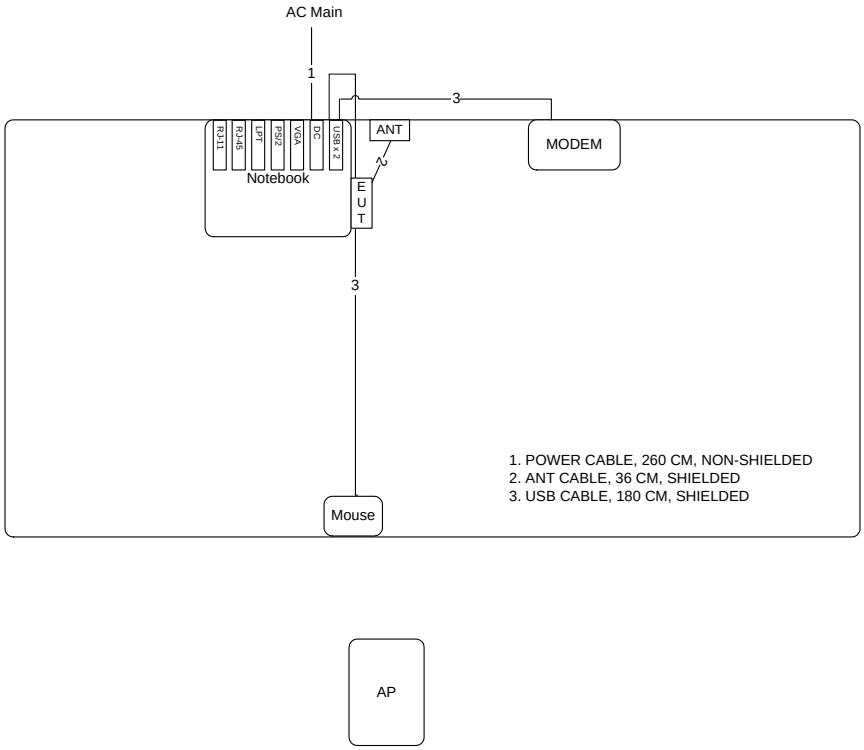


Test Mode: Mode 4

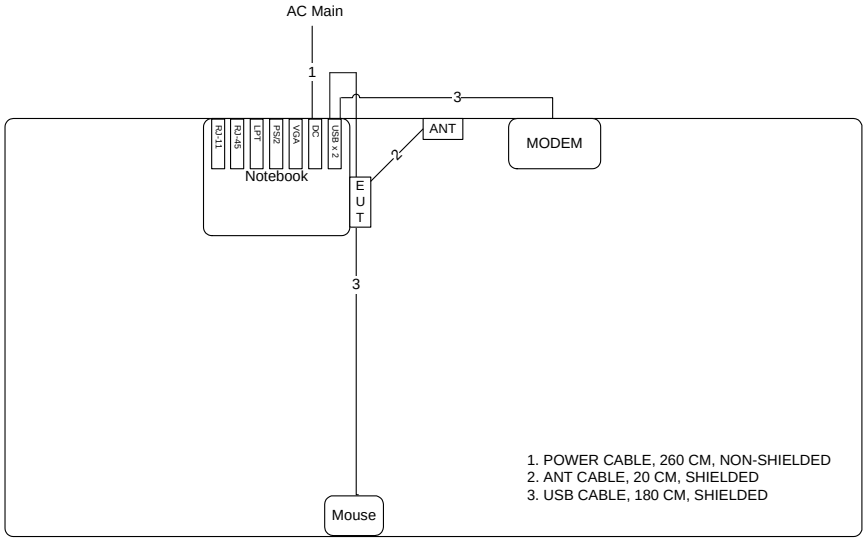


3.9.2. AC Power Line Conduction Emissions Test Configuration

Test Mode: Mode 1



Test Mode: Mode 3



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

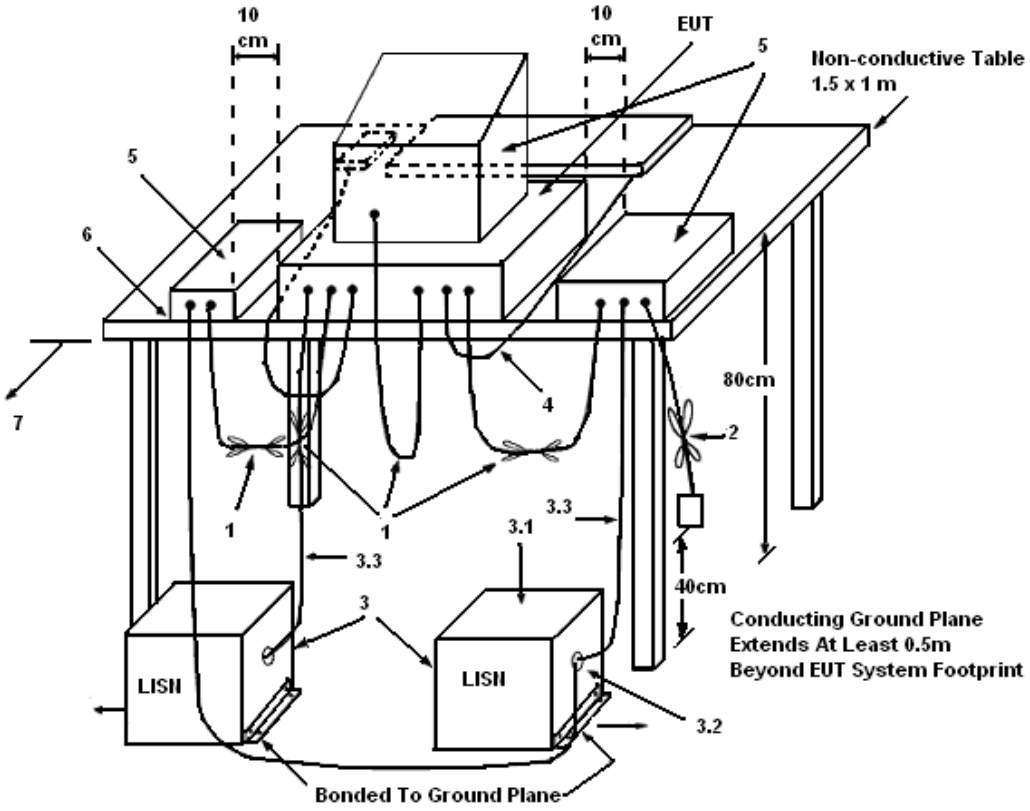
Please refer to section 5 of equipments list in this report. The following table is the setting of the receiver.

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. Configure the EUT according to ANSI C63.4. 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.

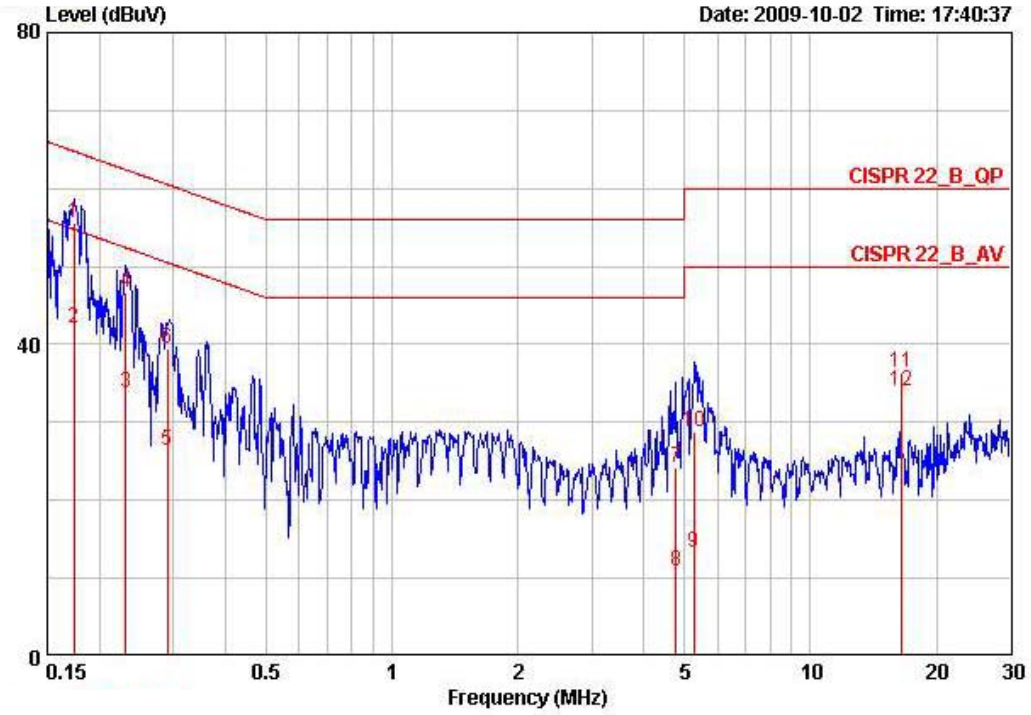
4.1.6. EUT Operation during Test

The EUT was placed on the test table and programmed in normal function.

4.1.7. Results of AC Power Line Conducted Emissions Measurement

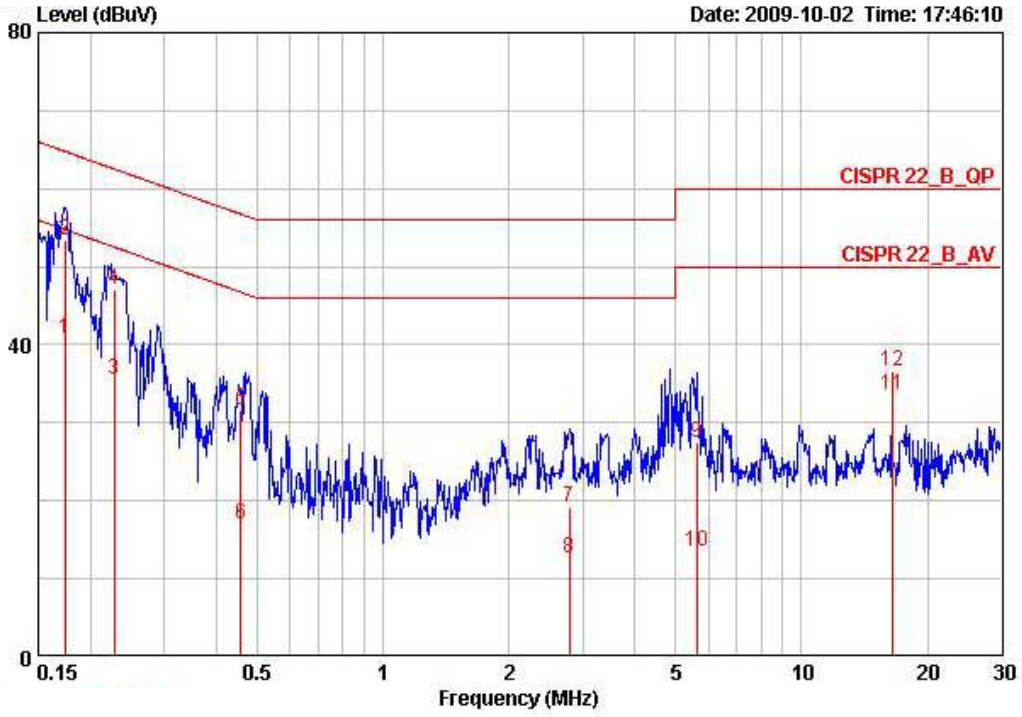
<For EUT 1 with PIFA antenna>

Temperature	24.3°C	**Humidity**	56.4%
Test Engineer	Howar Sung	**Phase**	Line
Configuration	Normal Link / Mode 1		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 @	0.17399	55.48	-9.29	64.77	55.22	0.06	0.20	QP
2	0.17399	41.96	-12.81	54.77	41.70	0.06	0.20	AVERAGE
3	0.23162	33.75	-18.65	52.39	33.50	0.05	0.20	AVERAGE
4	0.23162	46.61	-15.79	62.39	46.36	0.05	0.20	QP
5	0.28998	26.29	-24.24	50.52	26.05	0.04	0.20	AVERAGE
6	0.28998	39.54	-20.99	60.52	39.30	0.04	0.20	QP
7	4.772	24.09	-31.91	56.00	23.64	0.15	0.30	QP
8	4.772	10.82	-35.18	46.00	10.37	0.15	0.30	AVERAGE
9	5.256	13.39	-36.61	50.00	12.92	0.17	0.30	AVERAGE
10	5.256	28.71	-31.29	60.00	28.24	0.17	0.30	QP
11	16.464	36.41	-23.59	60.00	35.35	0.64	0.42	QP
12	16.464	34.04	-15.96	50.00	32.98	0.64	0.42	AVERAGE

Temperature	24.3°C	Humidity	56.4%
Test Engineer	Howar Sung	Phase	Neutral
Configuration	Normal Link / Mode 1		



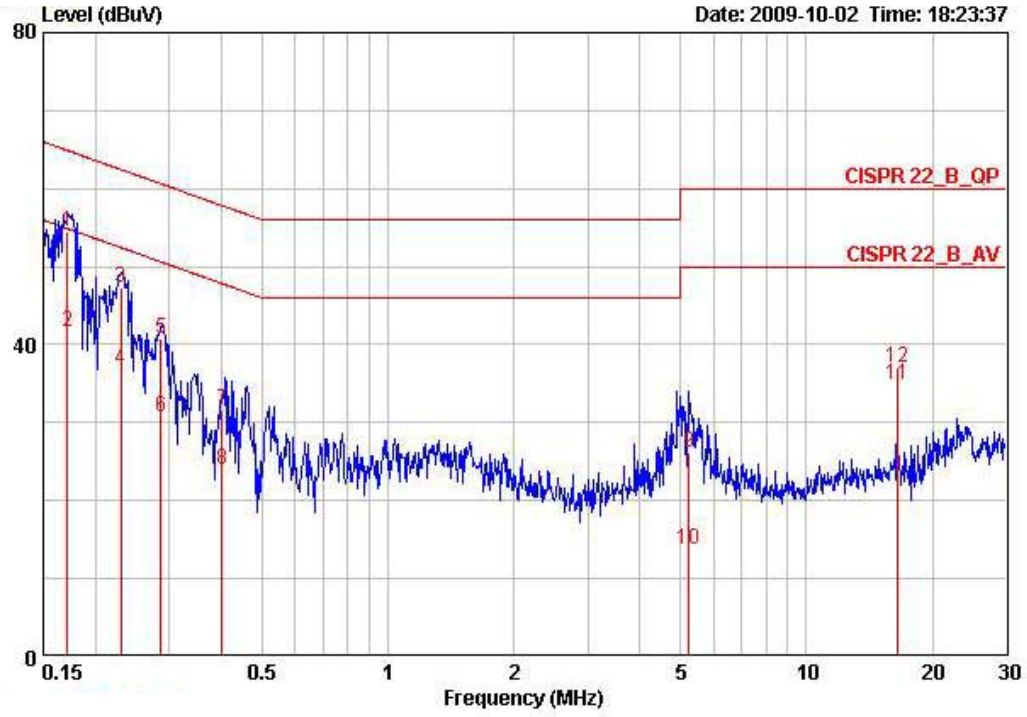
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.17399	40.70	-14.07	54.77	40.41	0.09	0.20	AVERAGE
2 @	0.17399	53.43	-11.34	64.77	53.14	0.09	0.20	QP
3	0.22799	35.44	-17.08	52.52	35.16	0.08	0.20	AVERAGE
4	0.22799	46.98	-15.54	62.52	46.70	0.08	0.20	QP
5	0.45630	31.50	-25.26	56.76	31.23	0.07	0.20	QP
6	0.45630	17.00	-29.76	46.76	16.73	0.07	0.20	AVERAGE
7	2.794	19.20	-36.80	56.00	18.89	0.11	0.20	QP
8	2.794	12.57	-33.43	46.00	12.26	0.11	0.20	AVERAGE
9	5.623	27.45	-32.55	60.00	26.92	0.23	0.30	QP
10	5.623	13.53	-36.47	50.00	13.00	0.23	0.30	AVERAGE
11	16.464	33.64	-16.36	50.00	32.57	0.65	0.42	AVERAGE
12	16.464	36.52	-23.48	60.00	35.45	0.65	0.42	QP

Note:

Level = Read Level + LISN Factor + Cable Loss.

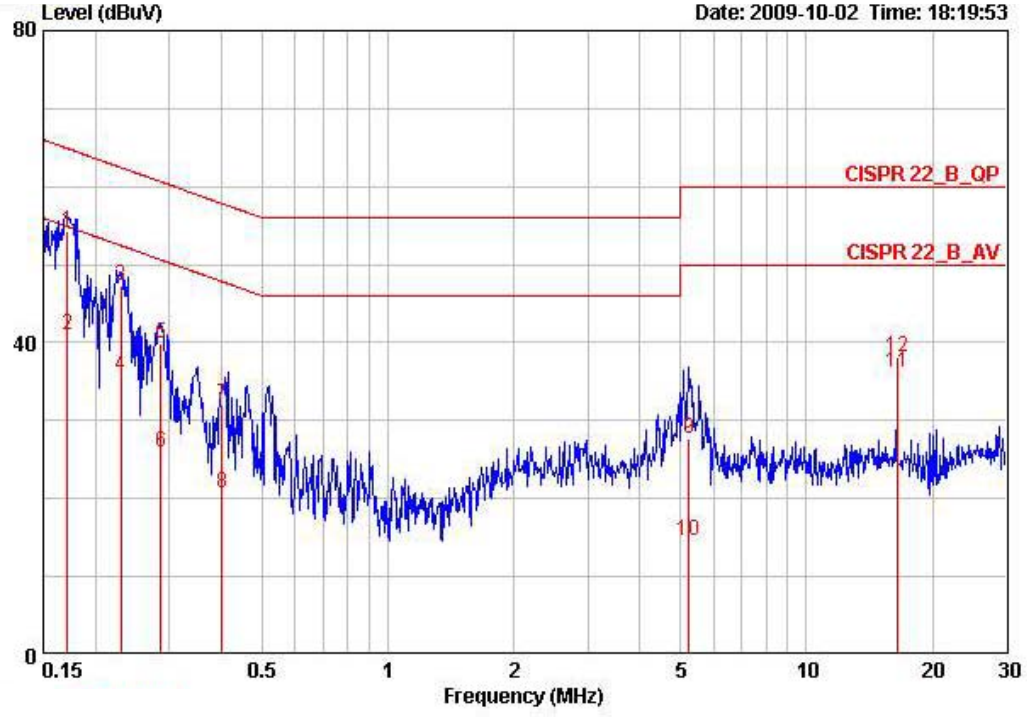
<For EUT 1 with Dipole antenna>

Temperature	24.3°C	Humidity	56.4%
Test Engineer	Howar Sung	Phase	Line
Configuration	Normal Link / Mode 3		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 @	0.17145	54.55	-10.34	64.89	54.29	0.06	0.20	QP
2	0.17145	41.53	-13.36	54.89	41.27	0.06	0.20	AVERAGE
3	0.22985	47.37	-15.09	62.46	47.12	0.05	0.20	QP
4	0.22985	36.87	-15.59	52.46	36.62	0.05	0.20	AVERAGE
5	0.28695	40.73	-19.88	60.61	40.49	0.04	0.20	QP
6	0.28695	30.65	-19.96	50.61	30.41	0.04	0.20	AVERAGE
7	0.40151	31.69	-26.13	57.82	31.46	0.03	0.20	QP
8	0.40151	23.91	-23.91	47.82	23.68	0.03	0.20	AVERAGE
9	5.249	26.25	-33.75	60.00	25.78	0.17	0.30	QP
10	5.249	13.83	-36.17	50.00	13.36	0.17	0.30	AVERAGE
11	16.465	34.89	-15.11	50.00	33.83	0.64	0.42	AVERAGE
12	16.465	36.98	-23.02	60.00	35.92	0.64	0.42	QP

Temperature	24.3°C	Humidity	56.4%
Test Engineer	Howar Sung	Phase	Neutral
Configuration	Normal Link / Mode 3		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 @	0.17164	54.34	-10.54	64.88	54.05	0.09	0.20	QP
2	0.17164	41.05	-13.83	54.88	40.76	0.09	0.20	AVERAGE
3	0.22982	47.26	-15.20	62.46	46.98	0.08	0.20	QP
4	0.22982	35.76	-16.70	52.46	35.48	0.08	0.20	AVERAGE
5	0.28710	39.89	-20.71	60.61	39.62	0.07	0.20	QP
6	0.28710	25.96	-24.64	50.61	25.69	0.07	0.20	AVERAGE
7	0.40085	32.15	-25.69	57.84	31.88	0.07	0.20	QP
8	0.40085	20.62	-27.22	47.84	20.35	0.07	0.20	AVERAGE
9	5.249	27.64	-32.36	60.00	27.13	0.21	0.30	QP
10	5.249	14.57	-35.43	50.00	14.06	0.21	0.30	AVERAGE
11	16.464	36.13	-13.87	50.00	35.06	0.65	0.42	AVERAGE
12	16.464	38.06	-21.94	60.00	36.99	0.65	0.42	QP

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.

4.2.2. Measuring Instruments and Setting

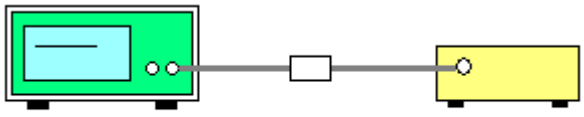
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RB	1MHz
VB	3MHz
Detector	Peak
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 EUT 2 with PIFA antenna>

Temperature	23°C	Humidity	62%
Test Engineer	Allen Liu	Configurations	Draft n / Mode 2

Configuration Draft n MCS0 20MHz / Connector 1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	23.72	30.00	Complies
6	2437 MHz	24.89	30.00	Complies
11	2462 MHz	24.90	30.00	Complies

Configuration Draft n MCS0 40MHz / Connector 1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	22.10	30.00	Complies
6	2437 MHz	24.91	30.00	Complies
9	2452 MHz	23.20	30.00	Complies

Temperature	23°C	Humidity	62%
Test Engineer	Allen Liu	Configurations	802.11b/g / Mode 2

Configuration IEEE 802.11b / Connector 1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	19.93	30.00	Complies
6	2437 MHz	20.45	30.00	Complies
11	2462 MHz	22.26	30.00	Complies

Configuration IEEE 802.11g / Connector 1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	23.83	30.00	Complies
6	2437 MHz	24.68	30.00	Complies
11	2462 MHz	24.75	30.00	Complies

<For EUT 2 with Dipole antenna>

Temperature	23°C	Humidity	62%
Test Engineer	Allen Liu	Configurations	Draft n / Mode 4

Configuration Draft n MCS0 20MHz / Connector 1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	24.53	30.00	Complies
6	2437 MHz	24.89	30.00	Complies
11	2462 MHz	24.90	30.00	Complies

Configuration Draft n MCS0 40MHz / Connector 1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	23.03	30.00	Complies
6	2437 MHz	24.91	30.00	Complies
9	2452 MHz	20.78	30.00	Complies

Temperature	23°C	Humidity	62%
Test Engineer	Allen Liu	Configurations	802.11b/g / Mode 4

Configuration IEEE 802.11b / Connector 1

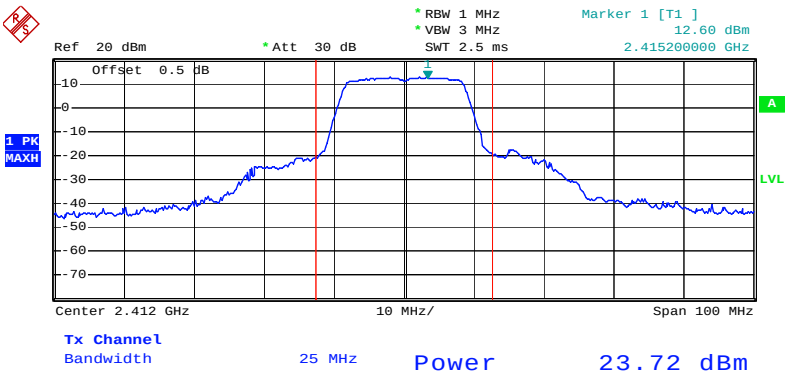
Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	20.65	30.00	Complies
6	2437 MHz	20.93	30.00	Complies
11	2462 MHz	21.10	30.00	Complies

Configuration IEEE 802.11g / Connector 1

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	24.75	30.00	Complies
6	2437 MHz	24.68	30.00	Complies
11	2462 MHz	24.23	30.00	Complies

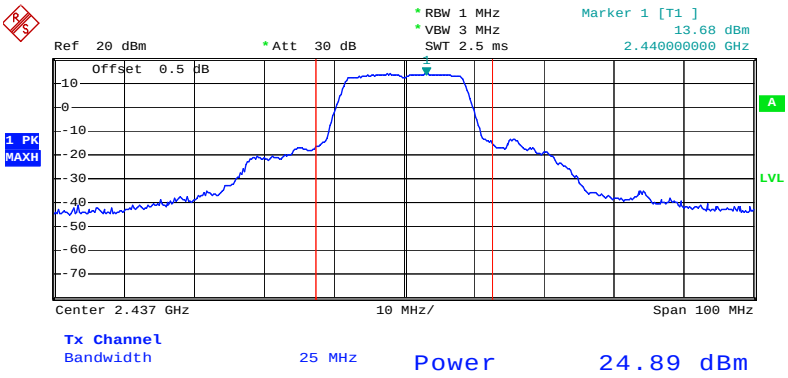
<For EUT 2 with PIFA antenna>

Conducted Output Power Plot on Configuration Draft n MCS0 20MHz / Connector 1 / 2412 MHz



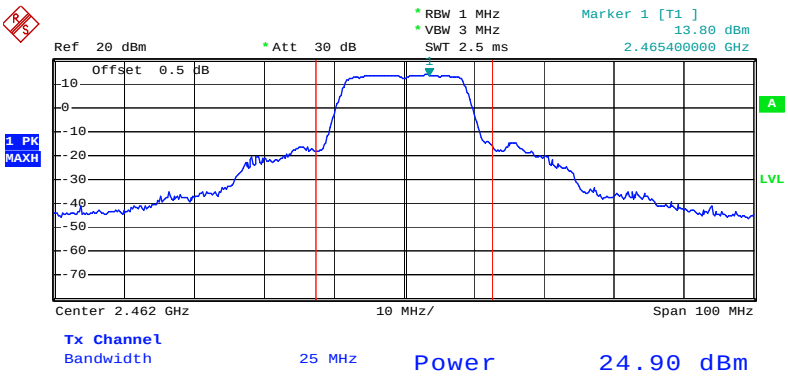
Date: 13.OCT.2009 18:06:18

Conducted Output Power Plot on Configuration Draft n MCS0 20MHz / Connector 1 / 2437 MHz



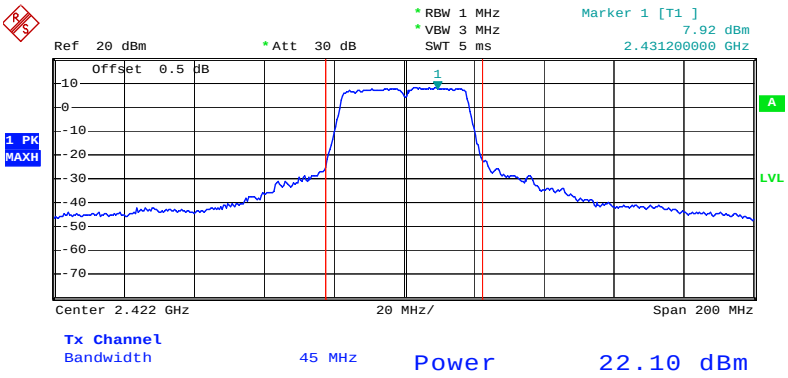
Date: 13.OCT.2009 18:05:02

Conducted Output Power Plot on Configuration Draft n MCS0 20MHz / Connector 1 / 2462 MHz



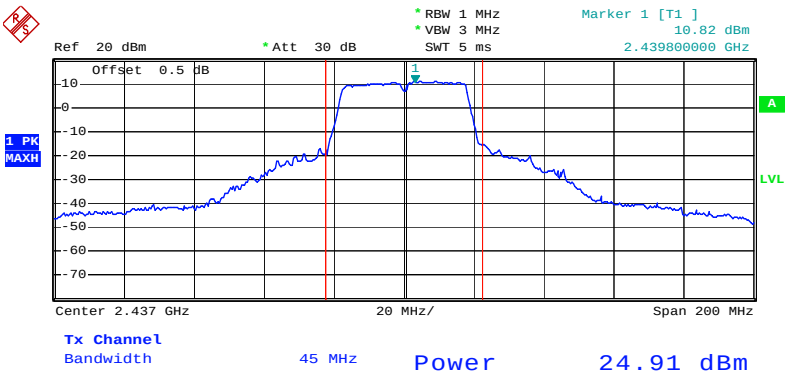
Date: 13.OCT.2009 18:07:24

Conducted Output Power Plot on Configuration Draft n MCS0 40MHz / Connector 1 / 2422 MHz



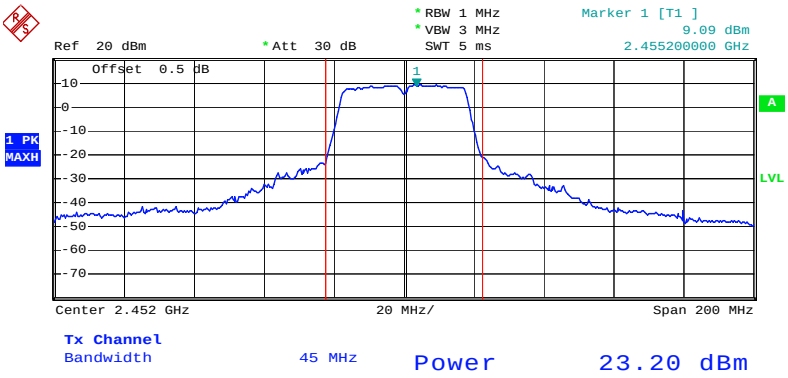
Date: 13.OCT.2009 18:10:28

Conducted Output Power Plot on Configuration Draft n MCS0 40MHz / Connector 1 / 2437 MHz



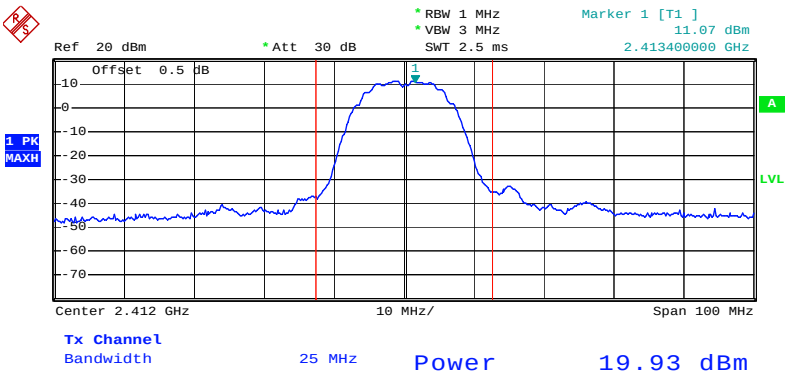
Date: 13.OCT.2009 18:12:01

Conducted Output Power Plot on Configuration Draft n MCS0 40MHz / Connector 1 / 2452 MHz



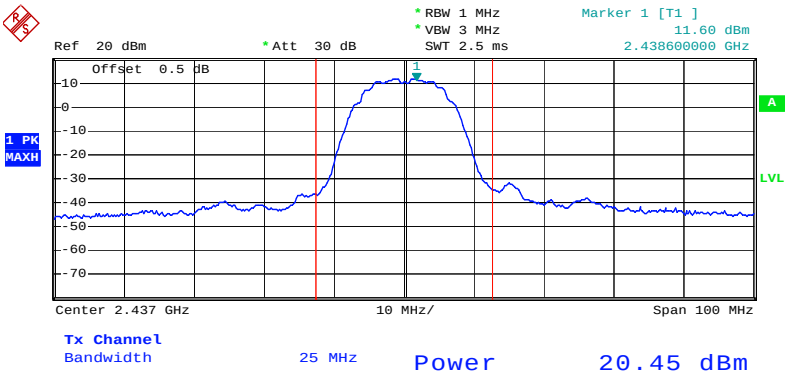
Date: 13.OCT.2009 18:14:48

Conducted Output Power Plot on Configuration IEEE 802.11b / Connector 1 / 2412 MHz



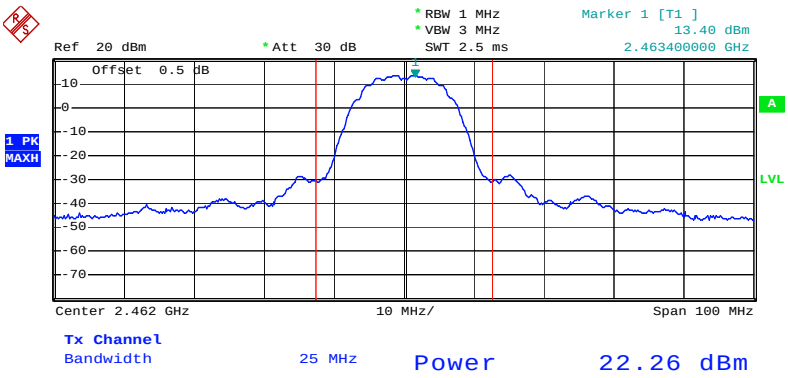
Date: 13.OCT.2009 17:44:21

Conducted Output Power Plot on Configuration IEEE 802.11b / Connector 1 / 2437 MHz



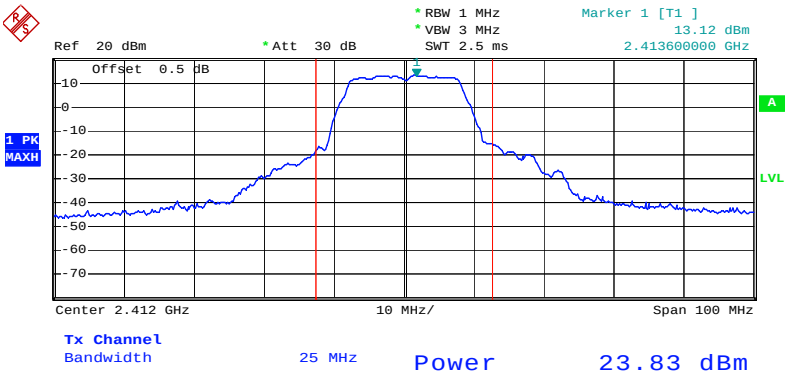
Date: 13.OCT.2009 17:39:38

Conducted Output Power Plot on Configuration IEEE 802.11b / Connector 1 / 2462 MHz



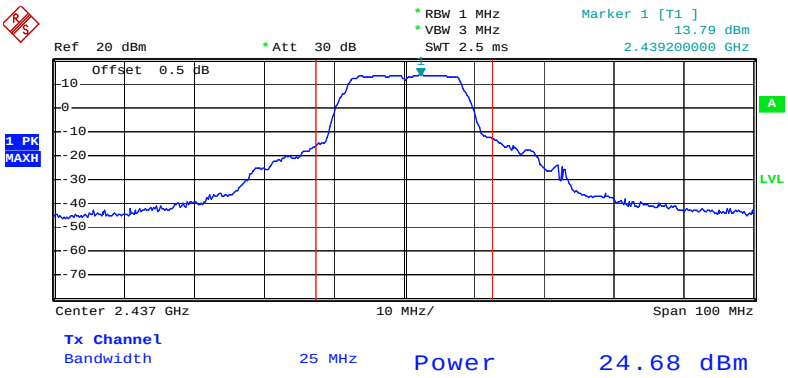
Date: 13.OCT.2009 17:34:46

Conducted Output Power Plot on Configuration IEEE 802.11g / Connector 1 / 2412 MHz



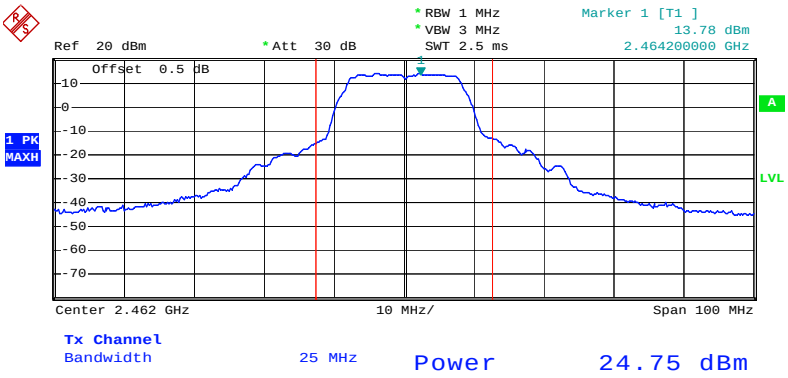
Date: 13.OCT.2009 17:48:48

Conducted Output Power Plot on Configuration IEEE 802.11g / Connector 1 / 2437 MHz



Date: 13.OCT.2009 17:49:38

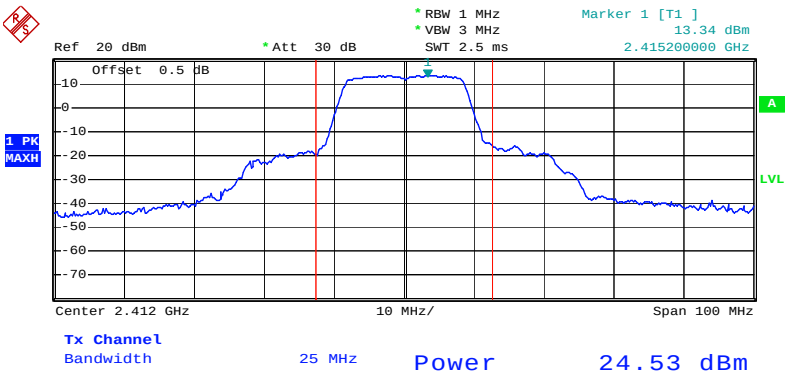
Conducted Output Power Plot on Configuration IEEE 802.11g / Connector 1 / 2462 MHz



Date: 13.OCT.2009 17:56:29

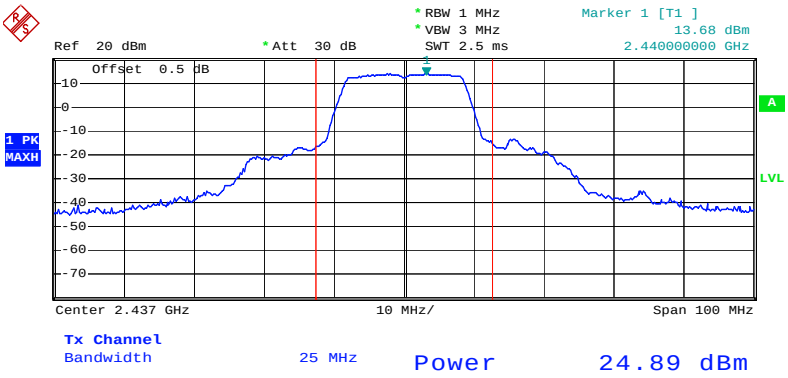
<For EUT 2 with Dipole antenna>

Conducted Output Power Plot on Configuration Draft n MCS0 20MHz / Connector 1 / 2412 MHz



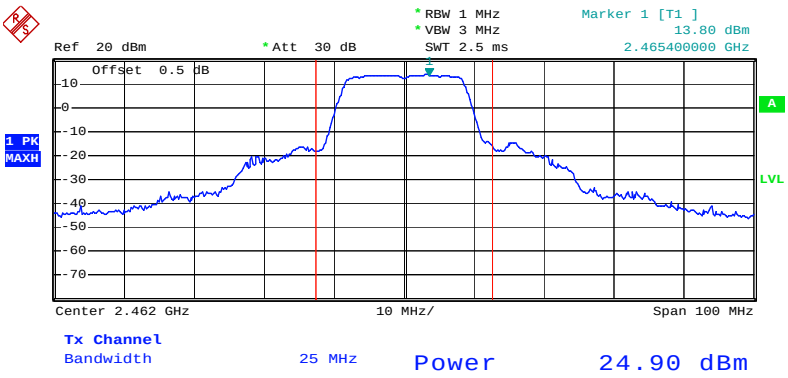
Date: 13.OCT.2009 18:02:18

Conducted Output Power Plot on Configuration Draft n MCS0 20MHz / Connector 1 / 2437 MHz



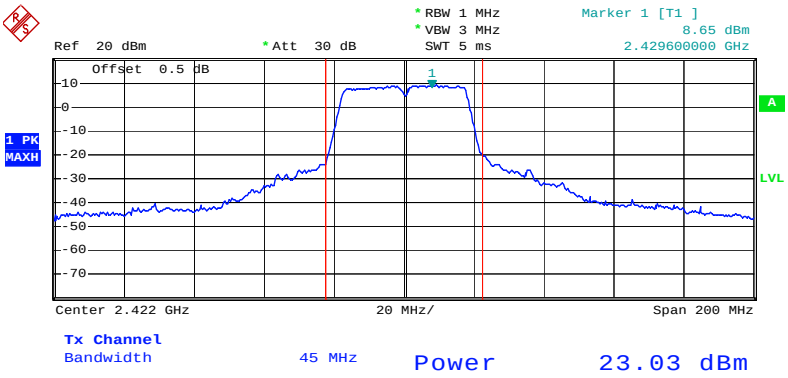
Date: 13.OCT.2009 18:05:02

Conducted Output Power Plot on Configuration Draft n MCS0 20MHz / Connector 1 / 2462 MHz



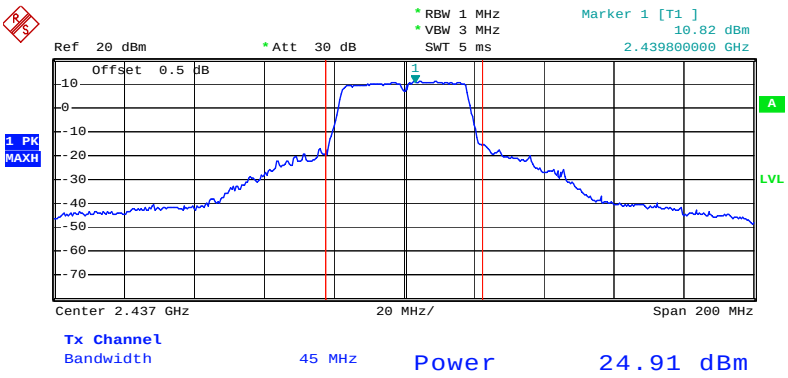
Date: 13.OCT.2009 18:07:24

Conducted Output Power Plot on Configuration Draft n MCS0 40MHz / Connector 1 / 2422 MHz



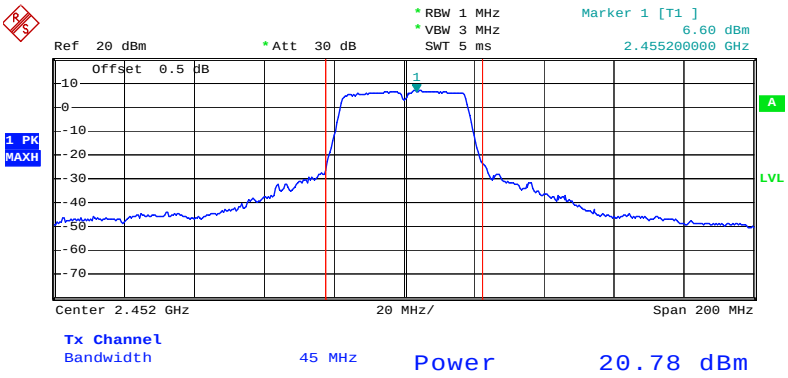
Date: 13.OCT.2009 18:11:09

Conducted Output Power Plot on Configuration Draft n MCS0 40MHz / Connector 1 / 2437 MHz



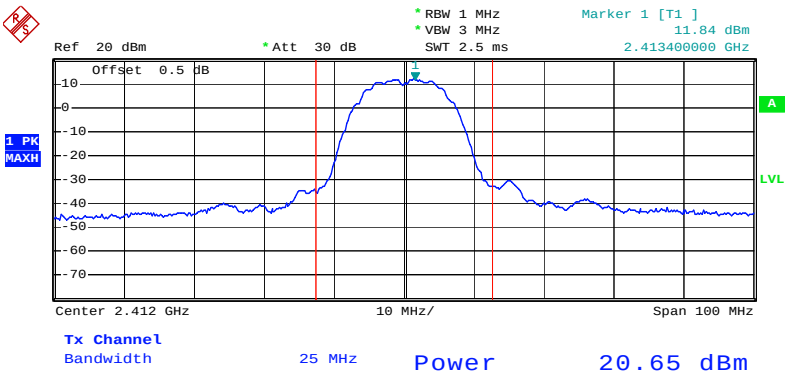
Date: 13.OCT.2009 18:12:01

Conducted Output Power Plot on Configuration Draft n MCS0 40MHz / Connector 1 / 2452 MHz



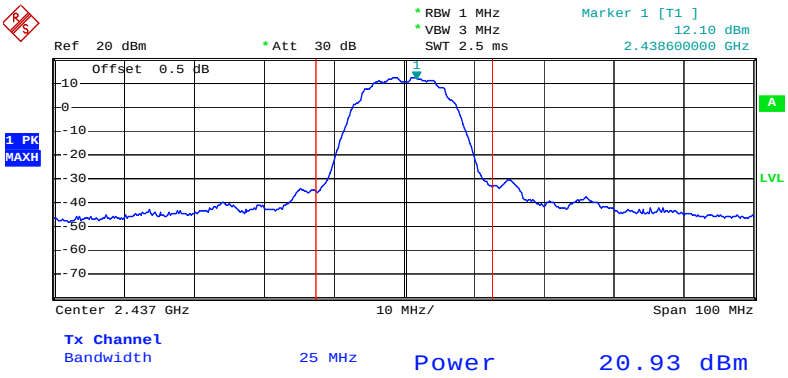
Date: 13.OCT.2009 18:14:08

Conducted Output Power Plot on Configuration IEEE 802.11b / Connector 1 / 2412 MHz



Date: 13.OCT.2009 17:29:54

Conducted Output Power Plot on Configuration IEEE 802.11b / Connector 1 / 2437 MHz



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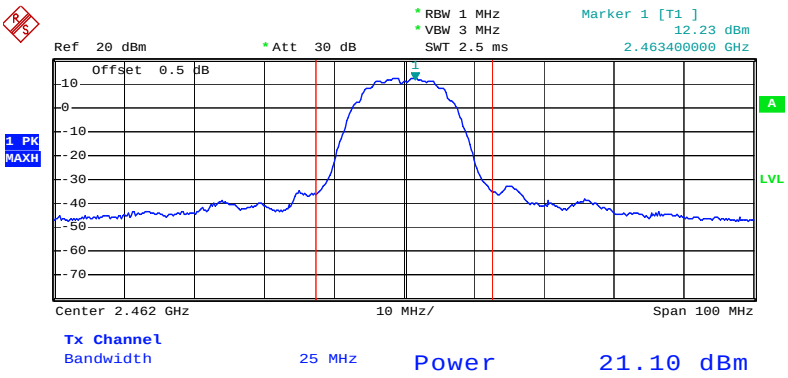
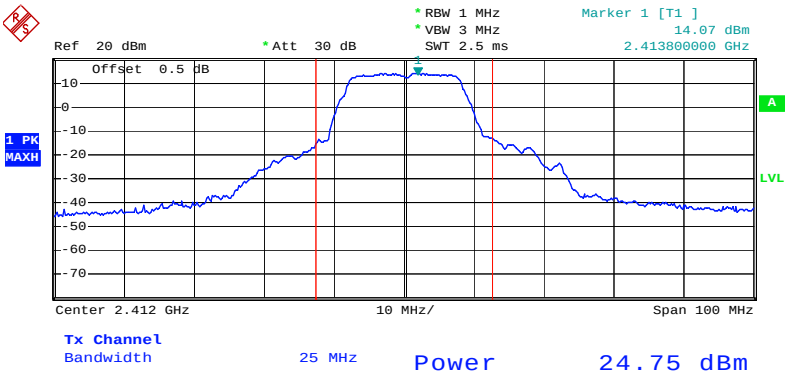
Conducted Output Power Plot on Configuration IEEE 802.11b / Connector 1 / 2462 MHz



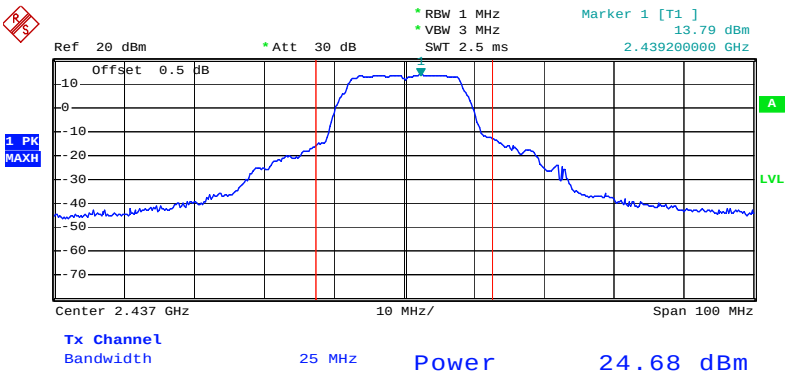
Date: 13.OCT.2009 17:33:43

Conducted Output Power Plot on Configuration IEEE 802.11g / Connector 1 / 2412 MHz



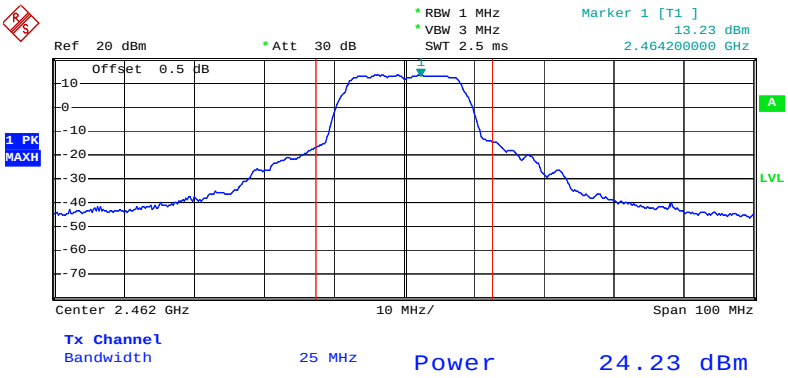
Date: 13.OCT.2009 17:48:12

Conducted Output Power Plot on Configuration IEEE 802.11g / Connector 1 / 2437 MHz



Date: 13.OCT.2009 17:49:38

Conducted Output Power Plot on Configuration IEEE 802.11g / Connector 1 / 2462 MHz



Date: 13.OCT.2009 17:58:22

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 8 dBm 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 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 EUT 2 with PIFA antenna>

Temperature	23°C	Humidity	62%
Test Engineer	Allen Liu	Configurations	Draft n / Mode 2

Configuration Draft n MCS0 20MHz / Connector 1

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-11.03	8.00	Complies
6	2437 MHz	-9.79	8.00	Complies
11	2462 MHz	-10.31	8.00	Complies

Configuration Draft n MCS0 40MHz / Connector 1

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
3	2422 MHz	-14.29	8.00	Complies
6	2437 MHz	-11.25	8.00	Complies
9	2452 MHz	-12.82	8.00	Complies

Temperature	23°C	Humidity	62%
Test Engineer	Allen Liu	Configurations	802.11b/g / Mode 2

Configuration IEEE 802.11b / Connector 1

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-12.46	8.00	Complies
6	2437 MHz	-9.13	8.00	Complies
11	2462 MHz	-8.02	8.00	Complies

Configuration IEEE 802.11g / Connector 1

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-12.46	8.00	Complies
6	2437 MHz	-11.15	8.00	Complies
11	2462 MHz	-10.78	8.00	Complies

<For EUT 2 with Dipole antenna>

Temperature	23°C	Humidity	62%
Test Engineer	Allen Liu	Configurations	Draft n / Mode 4

Configuration Draft n MCS0 20MHz / Connector 1

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-11.33	8.00	Complies
6	2437 MHz	-11.21	8.00	Complies
11	2462 MHz	-11.15	8.00	Complies

Configuration Draft n MCS0 40MHz / Connector 1

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
3	2422 MHz	-13.85	8.00	Complies
6	2437 MHz	-13.33	8.00	Complies
9	2452 MHz	-16.65	8.00	Complies

Temperature	23°C	Humidity	62%
Test Engineer	Allen Liu	Configurations	802.11b/g / Mode 4

Configuration IEEE 802.11b / Connector 1

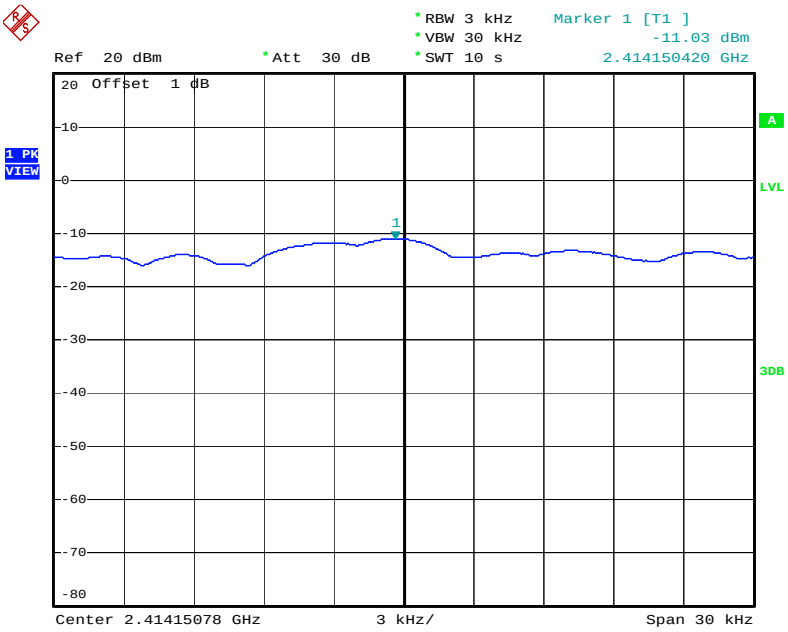
Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-12.14	8.00	Complies
6	2437 MHz	-12.19	8.00	Complies
11	2462 MHz	-11.19	8.00	Complies

Configuration IEEE 802.11g / Connector 1

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-12.49	8.00	Complies
6	2437 MHz	-12.01	8.00	Complies
11	2462 MHz	-11.90	8.00	Complies

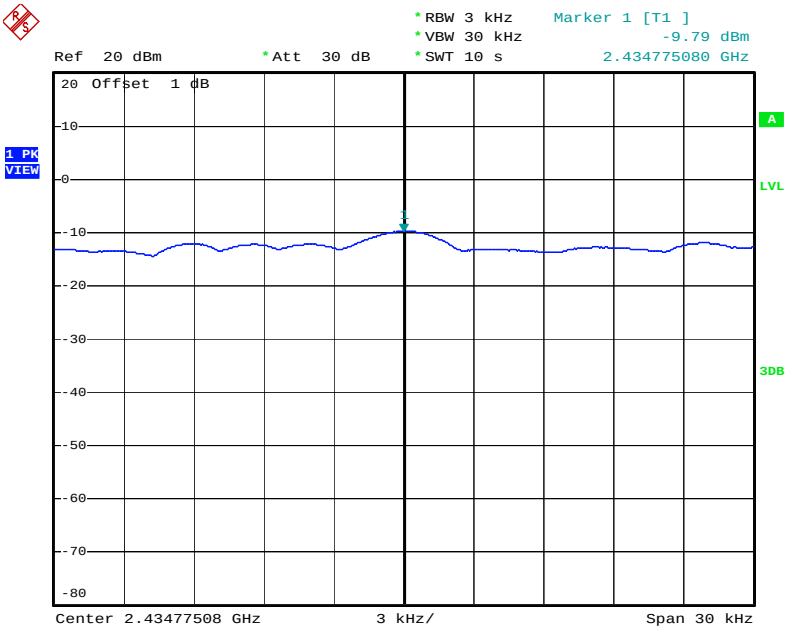
<For EUT 2 with PIFA antenna>

Power Density Plot on Configuration Draft n MCS0 20MHz / Connector 1 / 2412 MHz



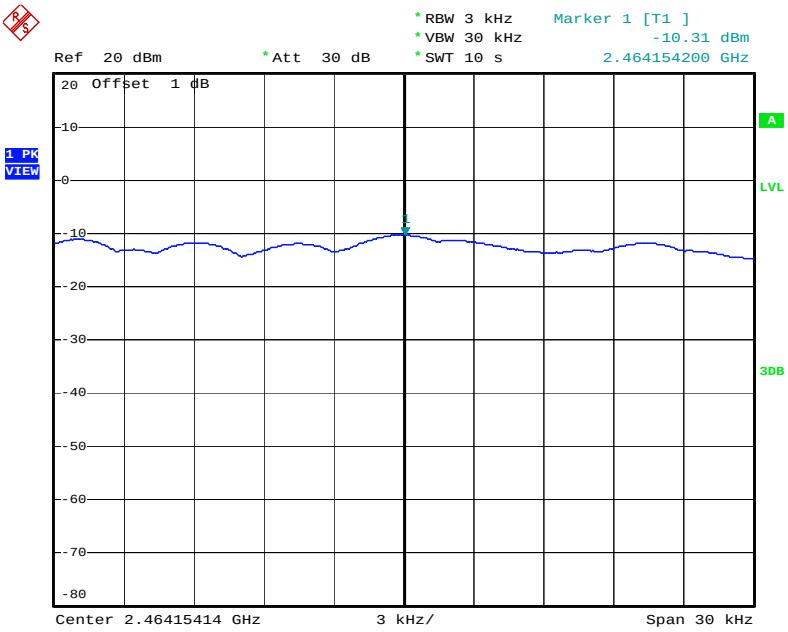
Date: 1.OCT.2009 22:03:00

Power Density Plot on Configuration Draft n MCS0 20MHz / Connector 1 / 2437 MHz



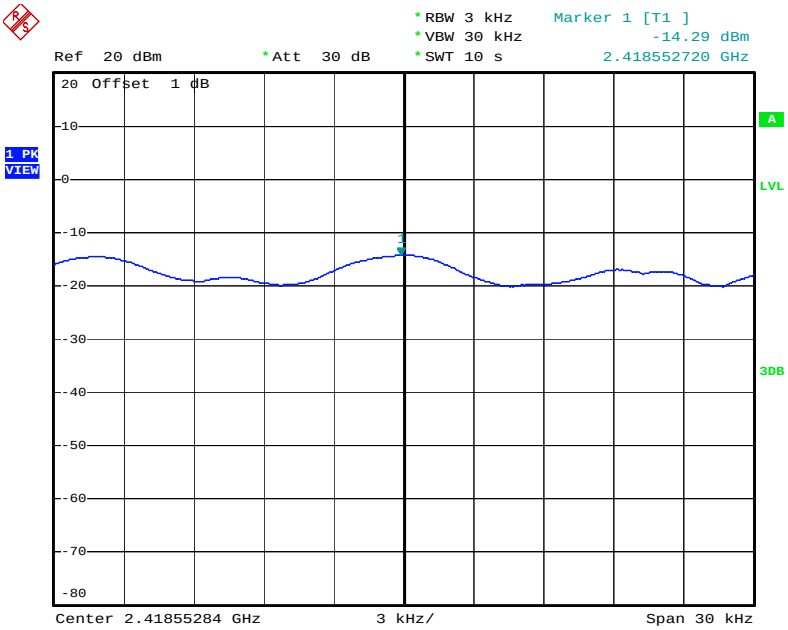
Date: 1.OCT.2009 22:05:03

Power Density Plot on Configuration Draft n MCS0 20MHz / Connector 1 / 2462 MHz



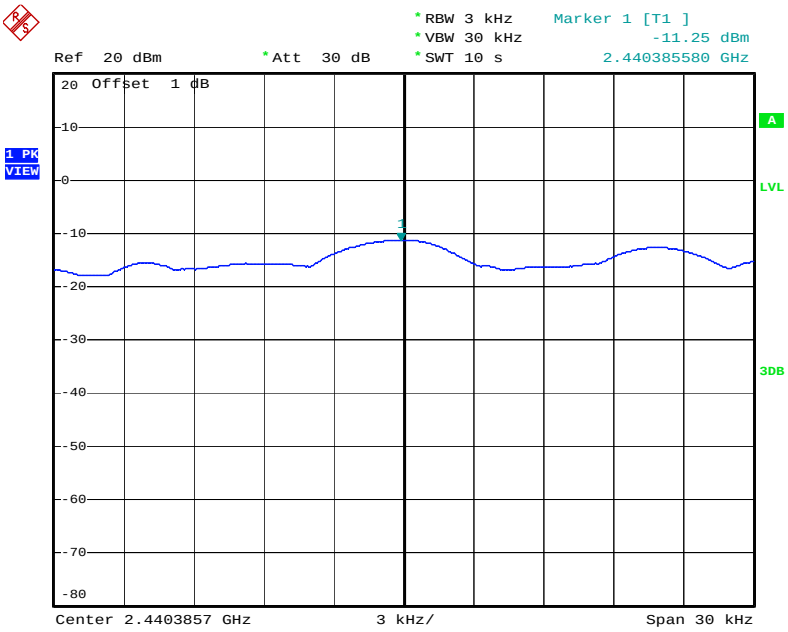
Date: 1.OCT.2009 22:10:19

Power Density Plot on Configuration Draft n MCS0 40MHz / Connector 1 / 2422 MHz



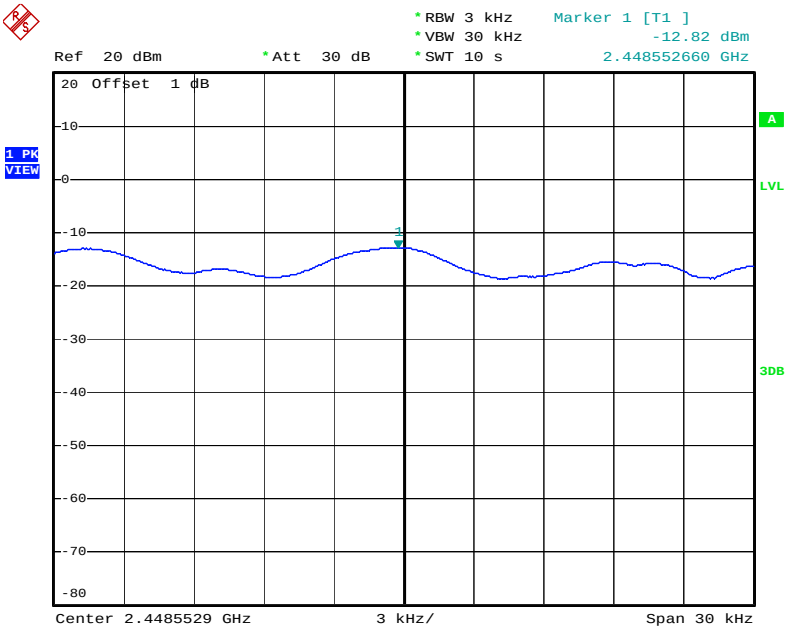
Date: 1.OCT.2009 21:55:59

Power Density Plot on Configuration Draft n MCS0 40MHz / Connector 1 / 2437 MHz



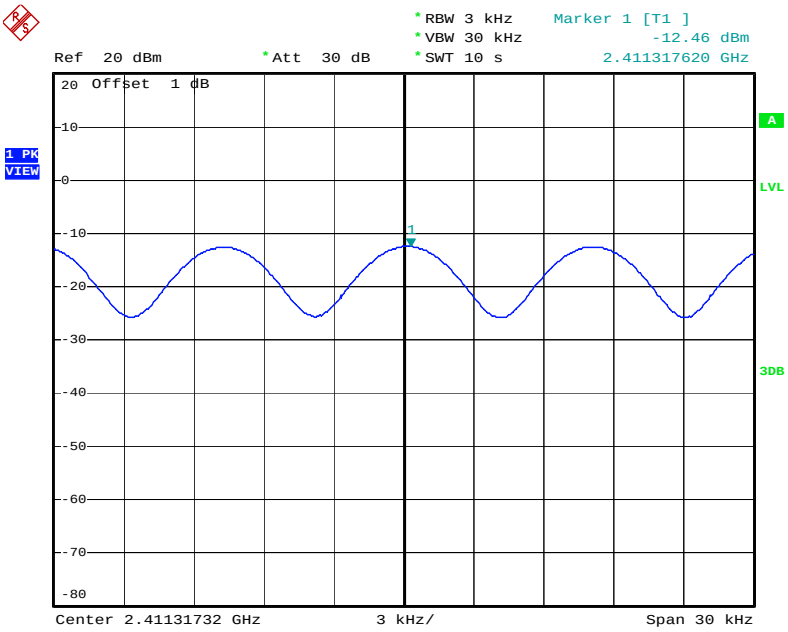
Date: 1.OCT.2009 21:53:58

Power Density Plot on Configuration Draft n MCS0 40MHz / Connector 1 / 2452 MHz



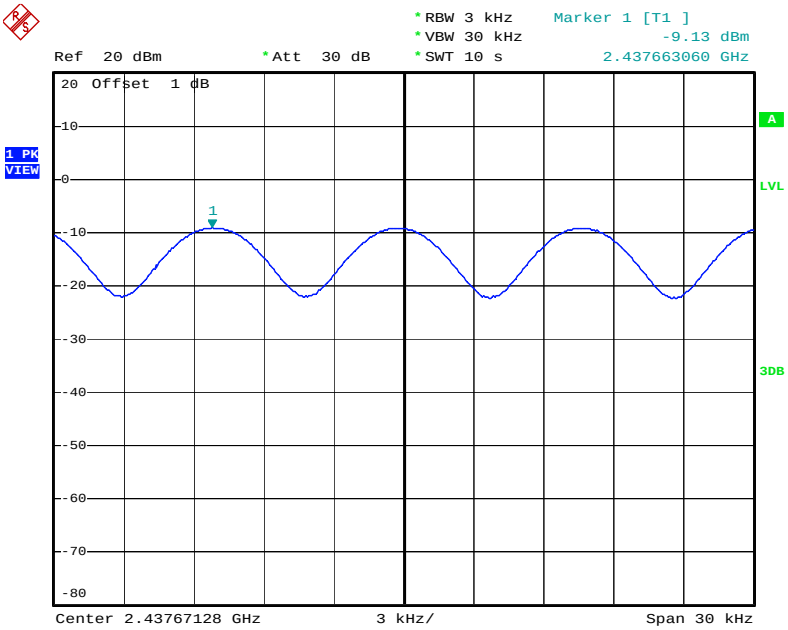
Date: 1.OCT.2009 21:58:18

Power Density Plot on Configuration IEEE 802.11b / Connector 1 / 2412 MHz



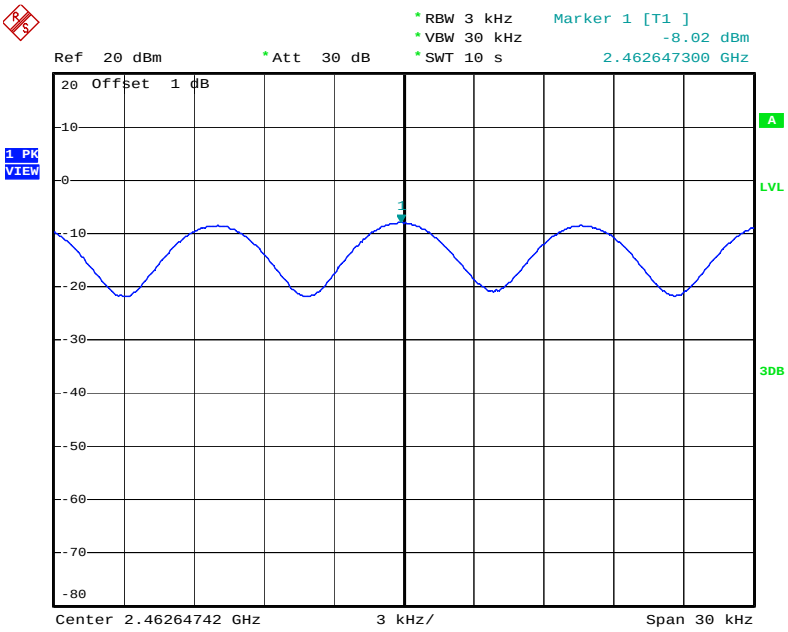
Date: 1.OCT.2009 22:43:38

Power Density Plot on Configuration IEEE 802.11b / Connector 1 / 2437 MHz



Date: 1.OCT.2009 22:45:47

Power Density Plot on Configuration IEEE 802.11b / Connector 1 / 2462 MHz



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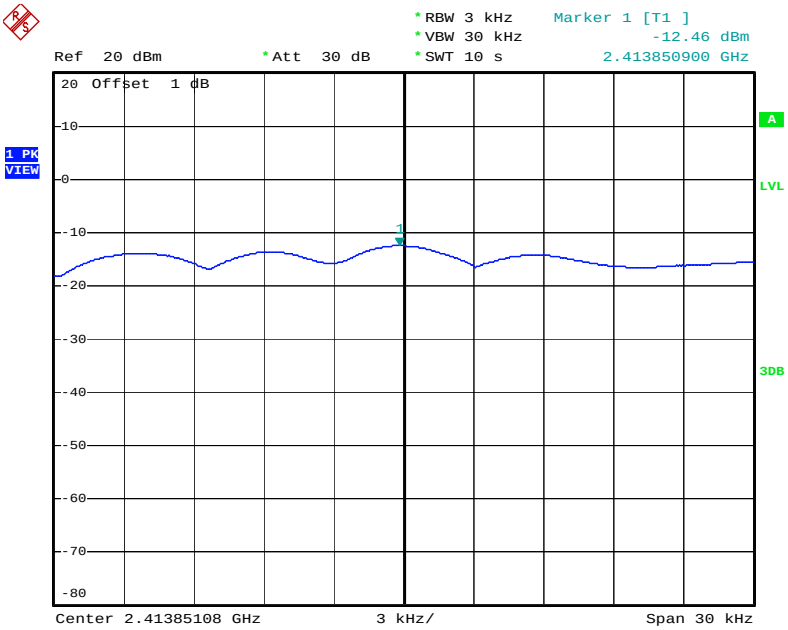
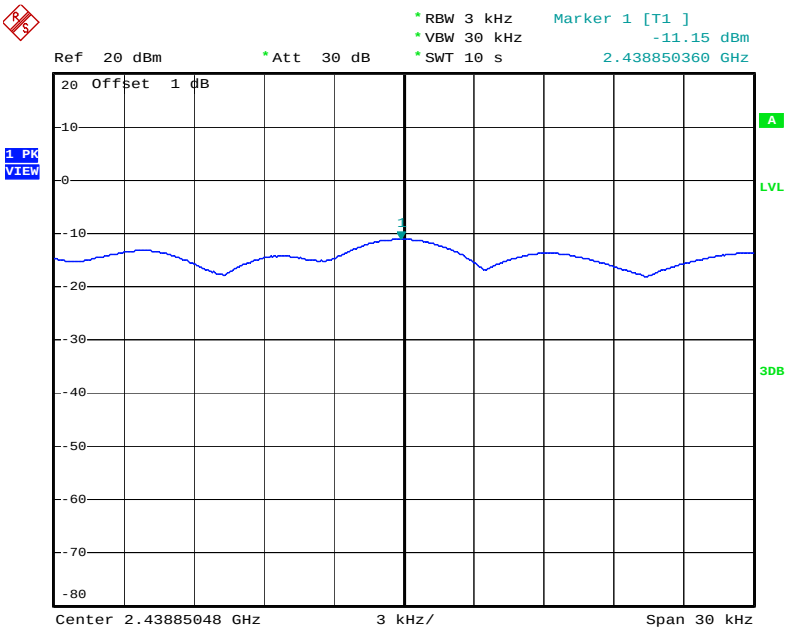
Power Density Plot on Configuration IEEE 802.11g / Connector 1 / 2412 MHz



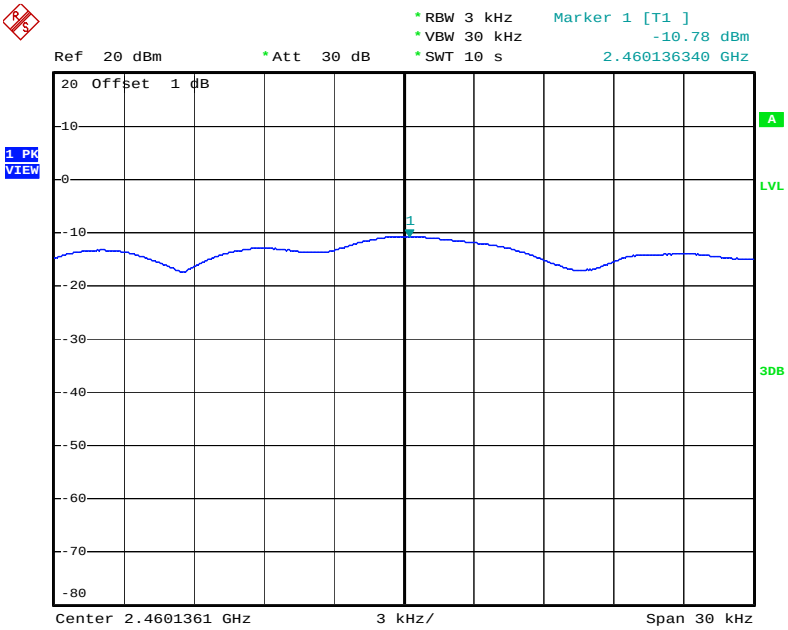
Date: 1.OCT.2009 22:23:44

Power Density Plot on Configuration IEEE 802.11g / Connector 1 / 2437 MHz



Date: 1.OCT.2009 22:21:34

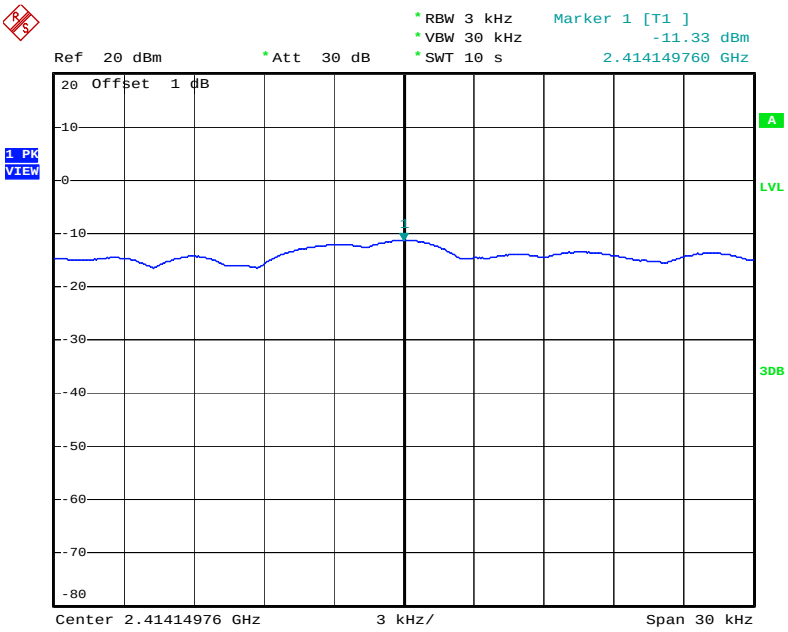
Power Density Plot on Configuration IEEE 802.11g / Connector 1 / 2462 MHz



Date: 1.OCT.2009 22:19:14

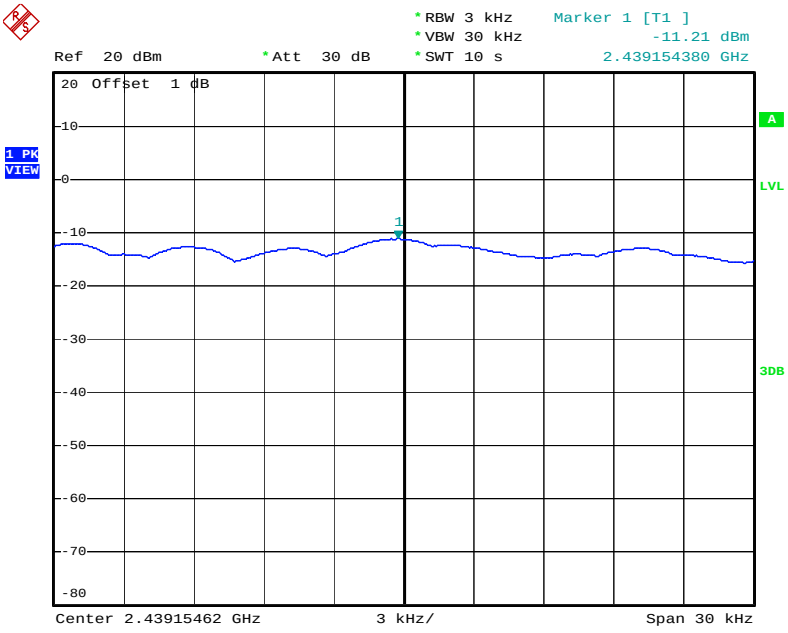
<For EUT 2 with Dipole antenna>

Power Density Plot on Configuration Draft n MCS0 20MHz / Connector 1 / 2412 MHz



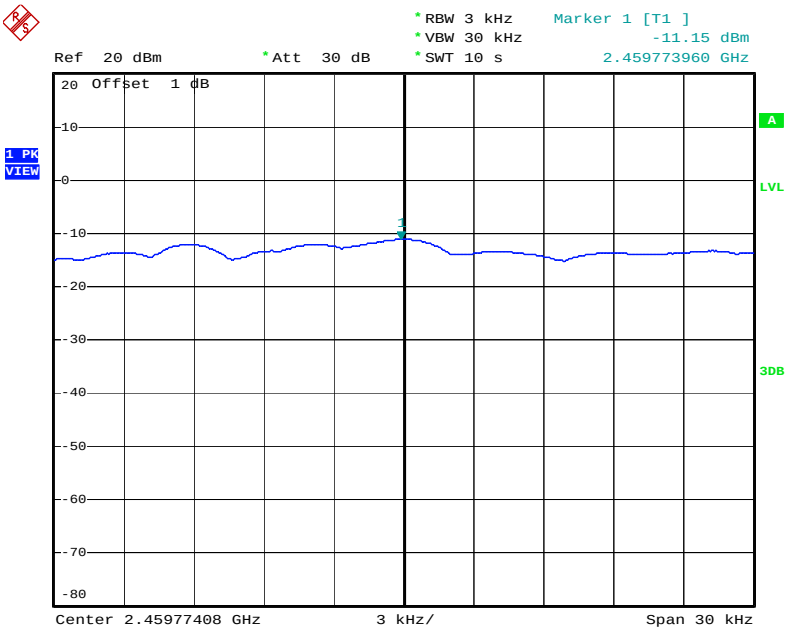
Date: 1.OCT.2009 21:05:11

Power Density Plot on Configuration Draft n MCS0 20MHz / Connector 1 / 2437 MHz



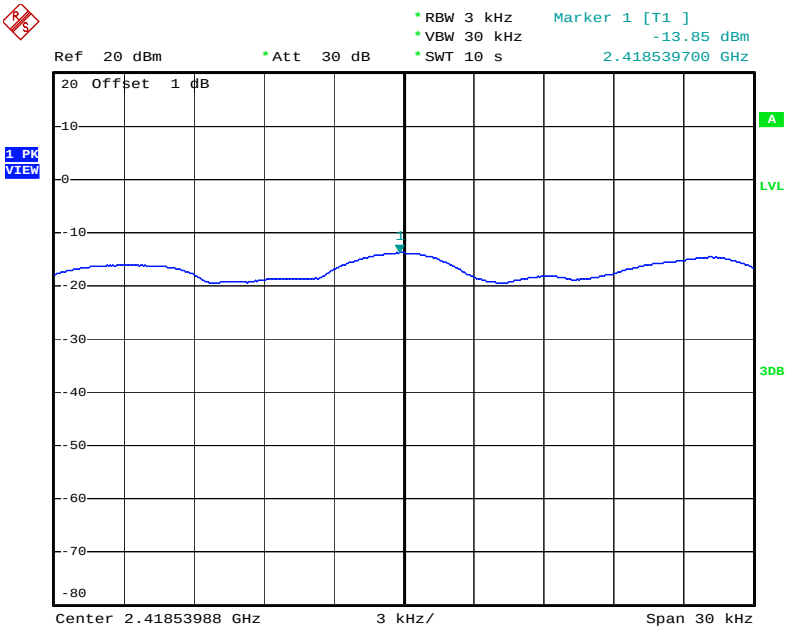
Date: 1.OCT.2009 21:07:21

Power Density Plot on Configuration Draft n MCS0 20MHz / Connector 1 / 2462 MHz



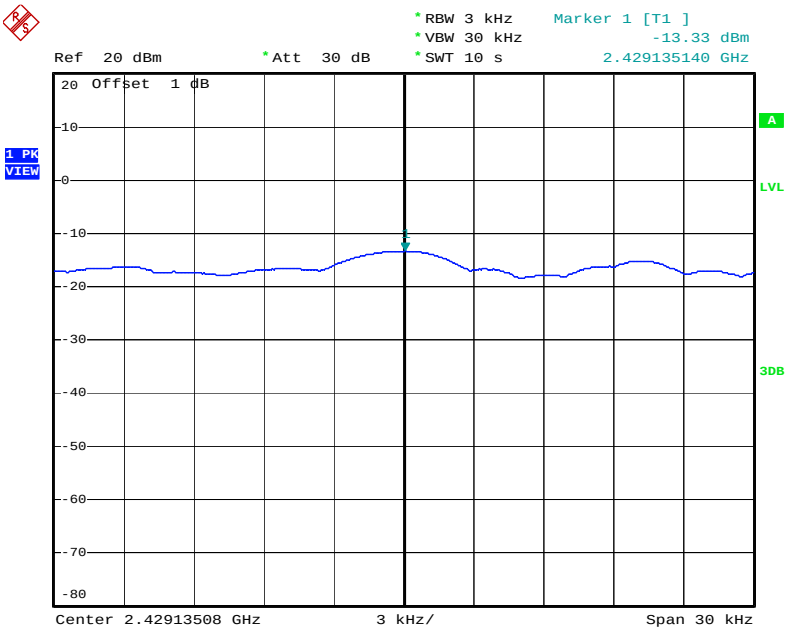
Date: 1.OCT.2009 21:09:26

Power Density Plot on Configuration Draft n MCS0 40MHz / Connector 1 / 2422 MHz



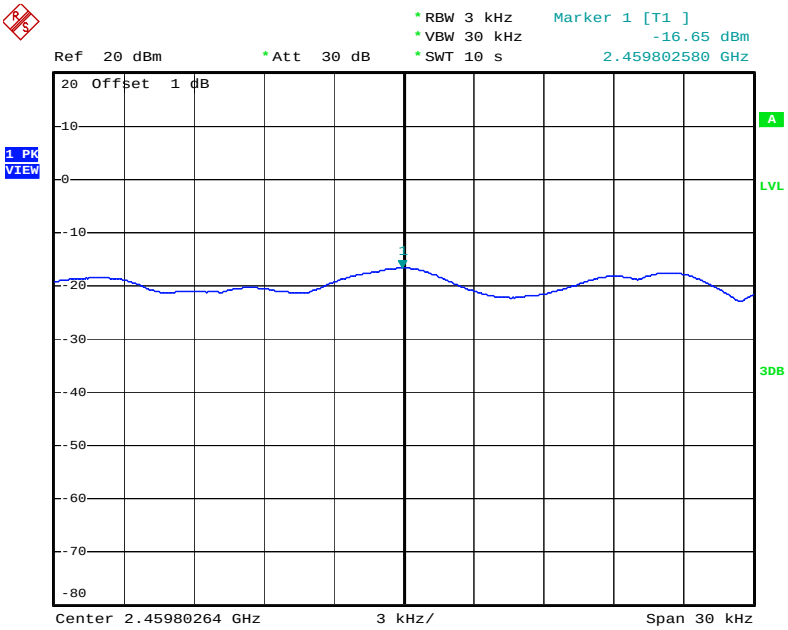
Date: 1.OCT.2009 21:14:57

Power Density Plot on Configuration Draft n MCS0 40MHz / Connector 1 / 2437 MHz



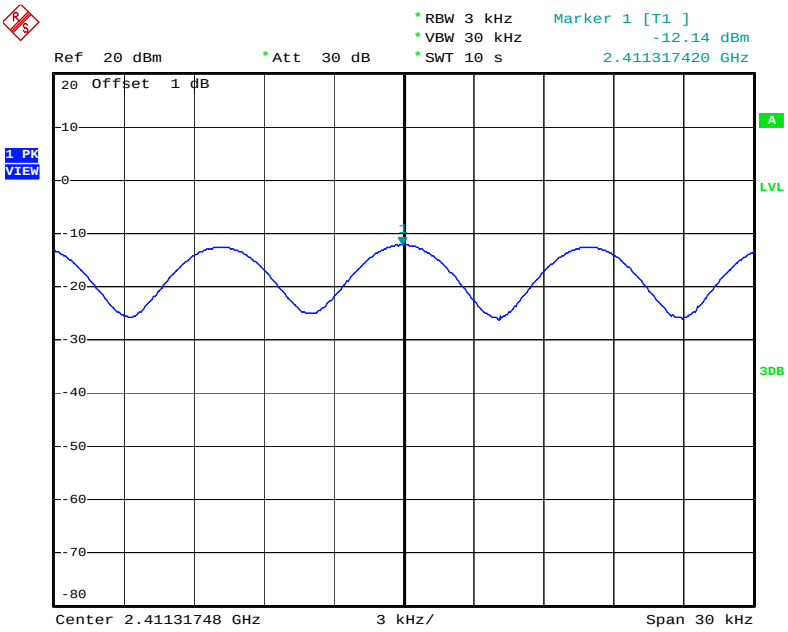
Date: 1.OCT.2009 21:17:37

Power Density Plot on Configuration Draft n MCS0 40MHz / Connector 1 / 2452 MHz



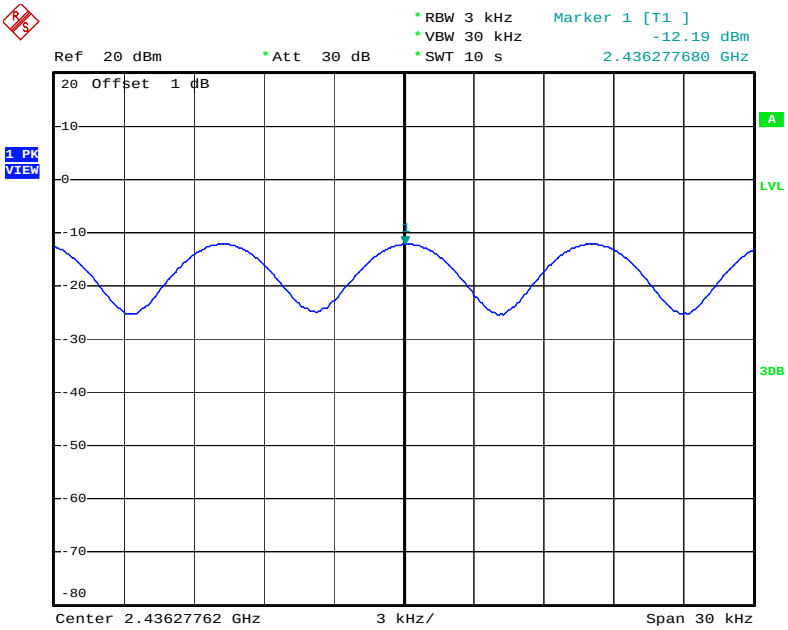
Date: 1.OCT.2009 21:31:15

Power Density Plot on Configuration IEEE 802.11b / Connector 1 / 2412 MHz



Date: 1.OCT.2009 20:54:31

Power Density Plot on Configuration IEEE 802.11b / Connector 1 / 2437 MHz



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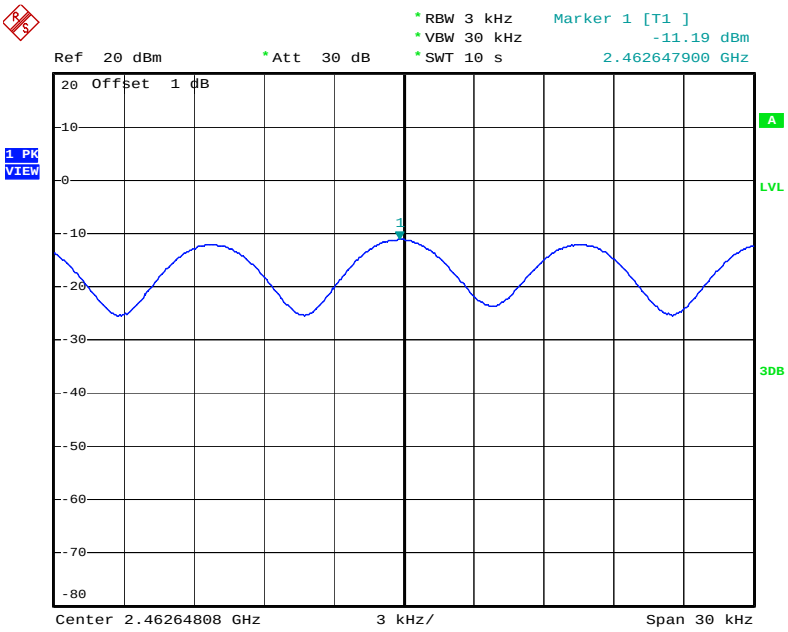
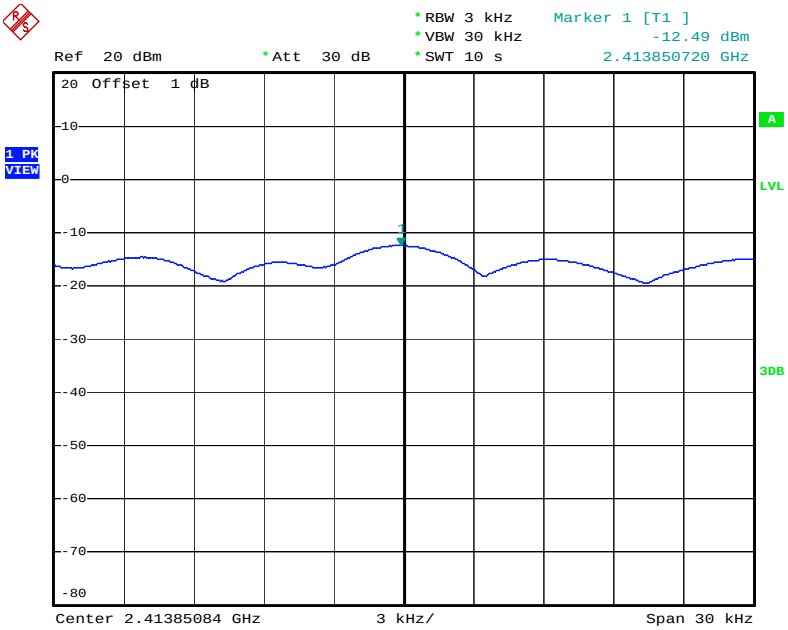
Power Density Plot on Configuration IEEE 802.11b / Connector 1 / 2462 MHz



Date: 1.OCT.2009 20:52:24

Power Density Plot on Configuration IEEE 802.11g / Connector 1 / 2412 MHz



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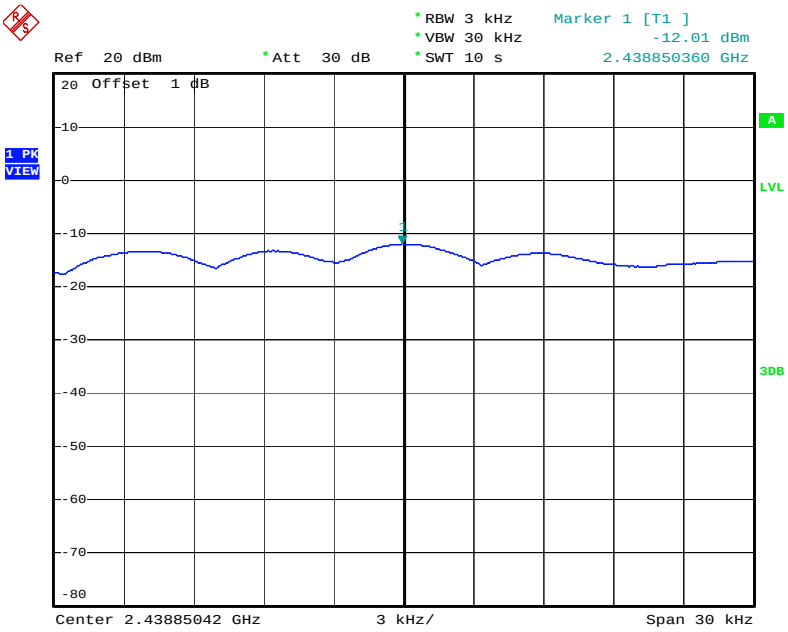
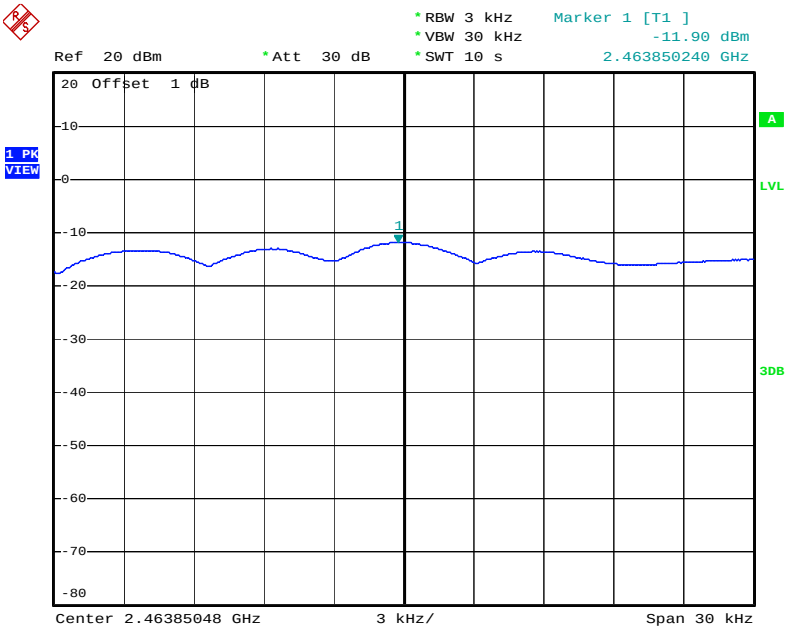
Power Density Plot on Configuration IEEE 802.11g / Connector 1 / 2437 MHz



Date: 1.OCT.2009 21:00:26

Power Density Plot on Configuration IEEE 802.11g / Connector 1 / 2462 MHz



Date: 1.OCT.2009 21:02:37

4.4. 6dB Spectrum Bandwidth Measurement

4.4.1. Limit

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

4.4.2. Measuring Instruments and Setting

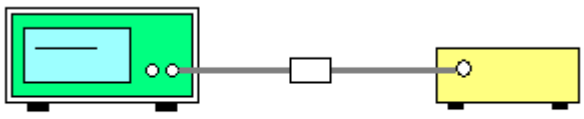
Please refer to section 5 of equipments list in this report. The following table is the setting of the Spectrum Analyzer.

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 EUT 2 with PIFA antenna>

Temperature	23℃	Humidity	62%
Test Engineer	Allen Liu	Configurations	Draft n / Mode 2

Configuration Draft n MCS0 20MHz / Connector 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.64	17.60	500	Complies
6	2437 MHz	17.64	17.60	500	Complies
11	2462 MHz	17.64	17.60	500	Complies

Configuration Draft n MCS0 40MHz / Connector 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.32	36.00	500	Complies
6	2437 MHz	36.40	36.00	500	Complies
9	2452 MHz	36.48	36.08	500	Complies

Temperature	23℃	Humidity	62%
Test Engineer	Allen Liu	Configurations	802.11b/g / Mode 2

Configuration IEEE 802.11b / Connector 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	11.08	14.32	500	Complies
6	2437 MHz	11.08	14.44	500	Complies
11	2462 MHz	11.08	14.44	500	Complies

Configuration IEEE 802.11g / Connector 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.56	16.44	500	Complies
6	2437 MHz	16.56	16.44	500	Complies
11	2462 MHz	16.56	16.44	500	Complies

<For EUT 2 with Dipole antenna>

Temperature	23°C	Humidity	62%
Test Engineer	Allen Liu	Configurations	Draft n / Mode 4

Configuration Draft n MCS0 20MHz / Connector 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	17.68	17.60	500	Complies
6	2437 MHz	17.60	17.60	500	Complies
11	2462 MHz	17.64	17.60	500	Complies

Configuration Draft n MCS0 40MHz / Connector 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
3	2422 MHz	36.48	36.00	500	Complies
6	2437 MHz	36.40	36.08	500	Complies
9	2452 MHz	36.48	36.00	500	Complies

Temperature	23℃	Humidity	62%
Test Engineer	Allen Liu	Configurations	802.11b/g / Mode 4

Configuration IEEE 802.11b / Connector 1

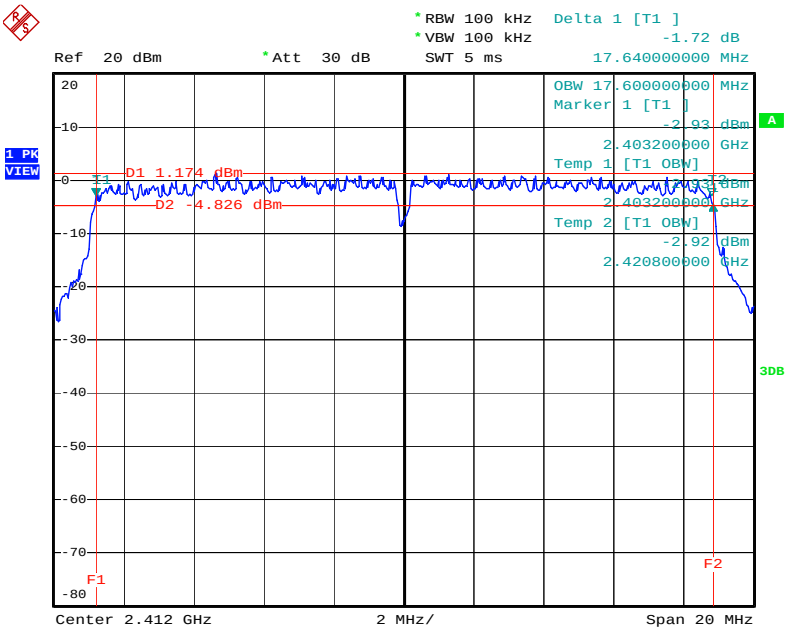
Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	11.08	14.36	500	Complies
6	2437 MHz	11.08	14.32	500	Complies
11	2462 MHz	11.08	14.32	500	Complies

Configuration IEEE 802.11g / Connector 1

Channel	Frequency	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Min. Limit (kHz)	Test Result
1	2412 MHz	16.52	16.44	500	Complies
6	2437 MHz	16.52	16.44	500	Complies
11	2462 MHz	16.52	16.44	500	Complies

<For EUT 2 with PIFA antenna>

6 dB Bandwidth Plot on Configuration Draft n MCS0 20MHz / Connector 1 / 2412 MHz



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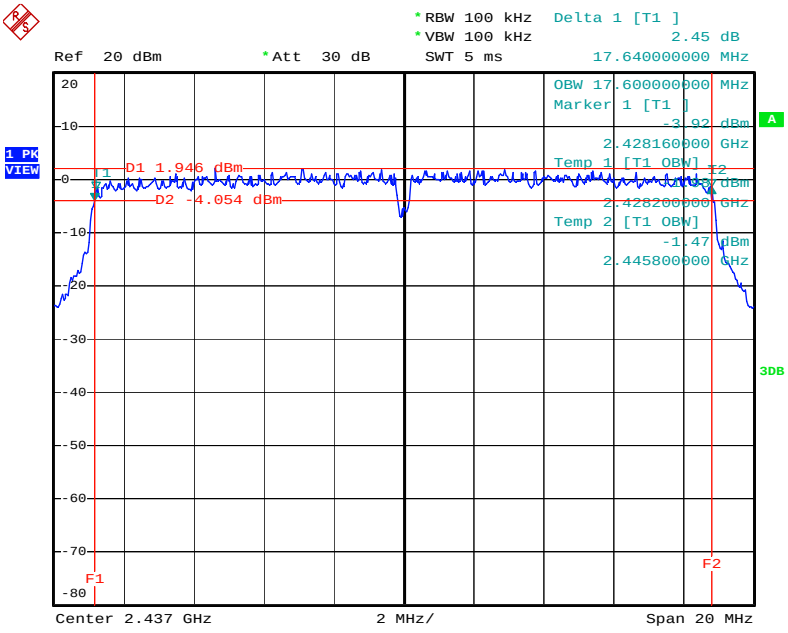
6 dB Bandwidth Plot on Configuration Draft n MCS0 20MHz / Connector 1 / 2437 MHz



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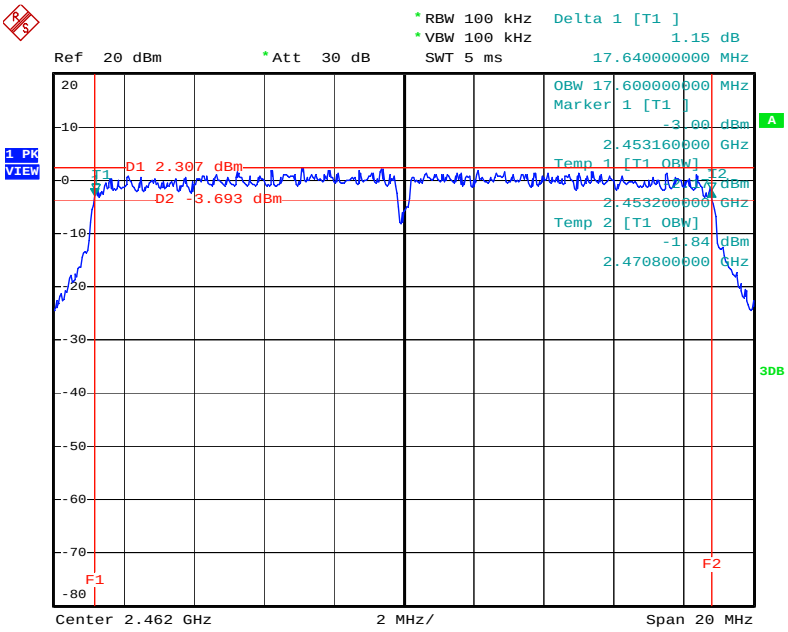
6 dB Bandwidth Plot on Configuration Draft n MCS0 20MHz / Connector 1 / 2462 MHz



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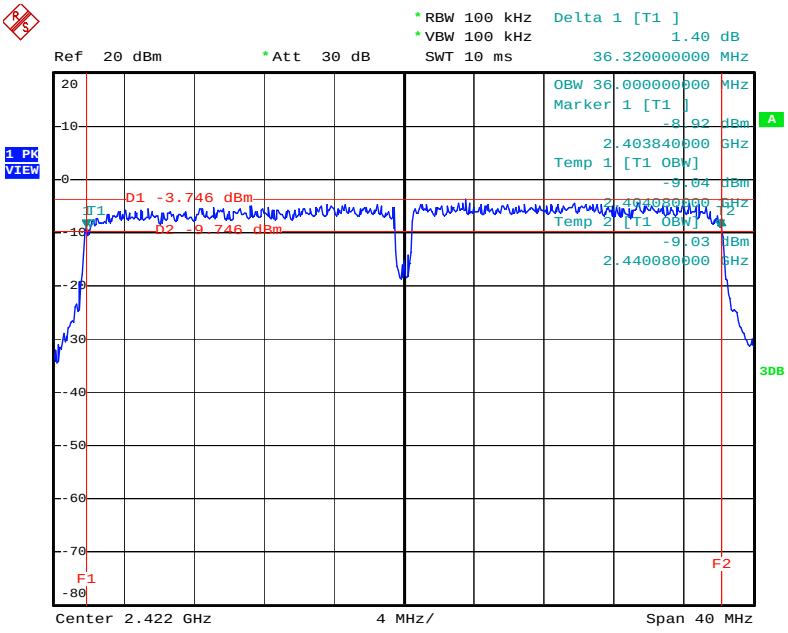
6 dB Bandwidth Plot on Configuration Draft n MCS0 40MHz / Connector 1 / 2422 MHz



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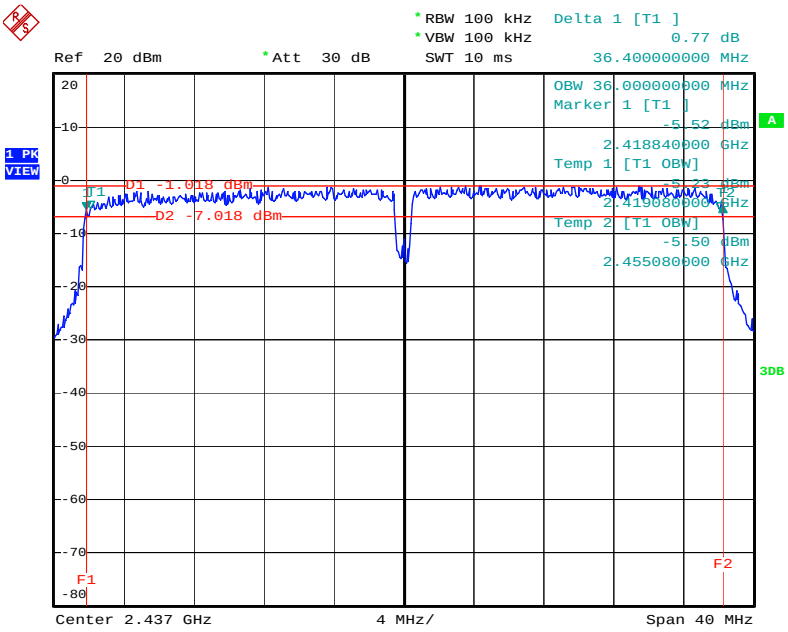
6 dB Bandwidth Plot on Configuration Draft n MCS0 40MHz / Connector 1 / 2437 MHz



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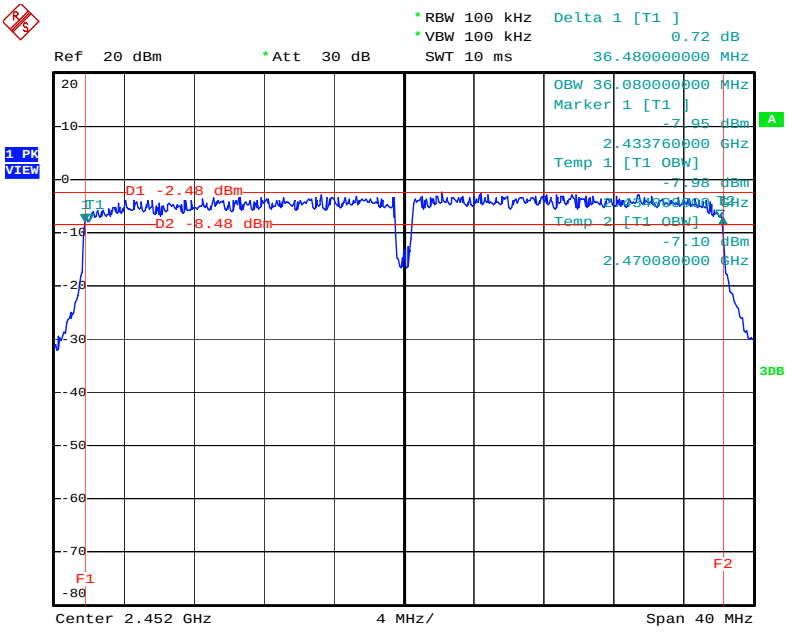
6 dB Bandwidth Plot on Configuration Draft n MCS0 40MHz / Connector 1 / 2452 MHz



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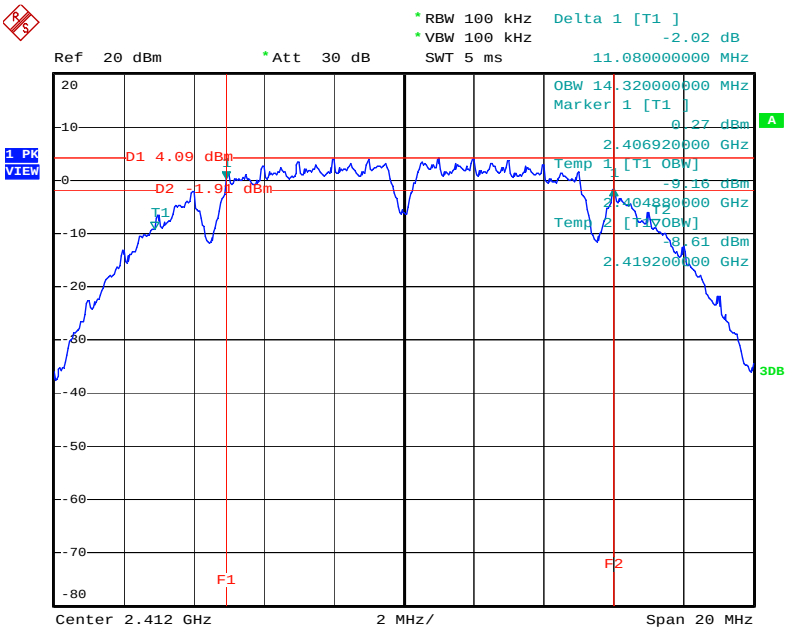
6 dB Bandwidth Plot on Configuration IEEE 802.11b / Connector 1 / 2412 MHz



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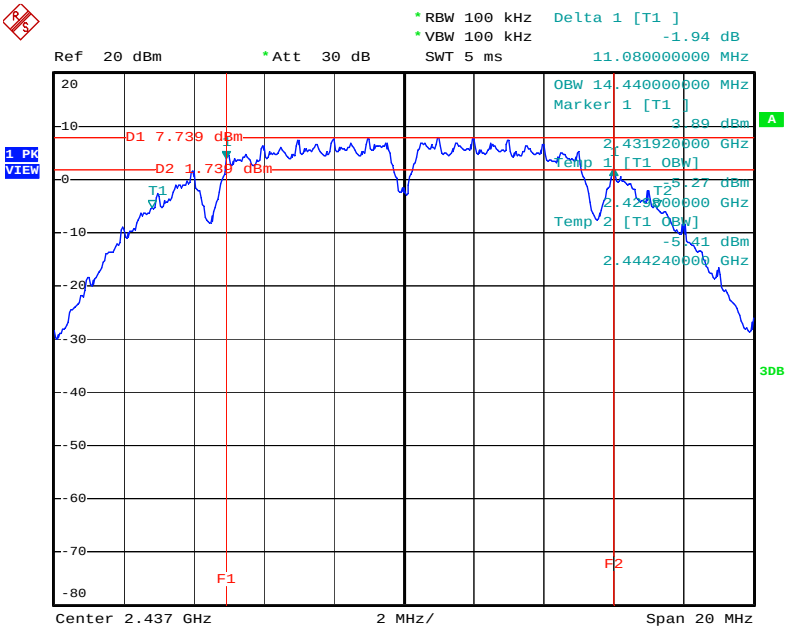
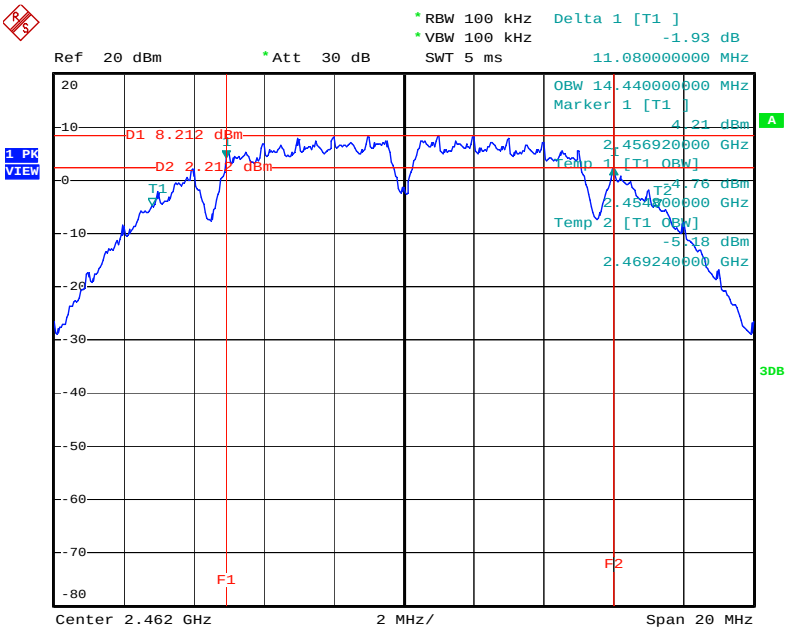
6 dB Bandwidth Plot on Configuration IEEE 802.11b / Connector 1 / 2437 MHz



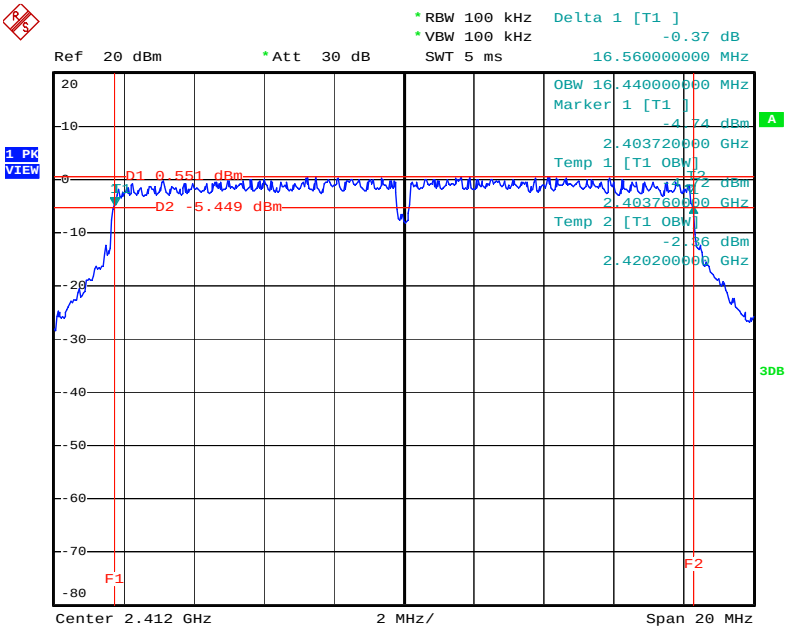
Date: 1.OCT.2009 22:44:19

6 dB Bandwidth Plot on Configuration IEEE 802.11b / Connector 1 / 2462 MHz



Date: 1.OCT.2009 22:46:29

6 dB Bandwidth Plot on Configuration IEEE 802.11g / Connector 1 / 2412 MHz



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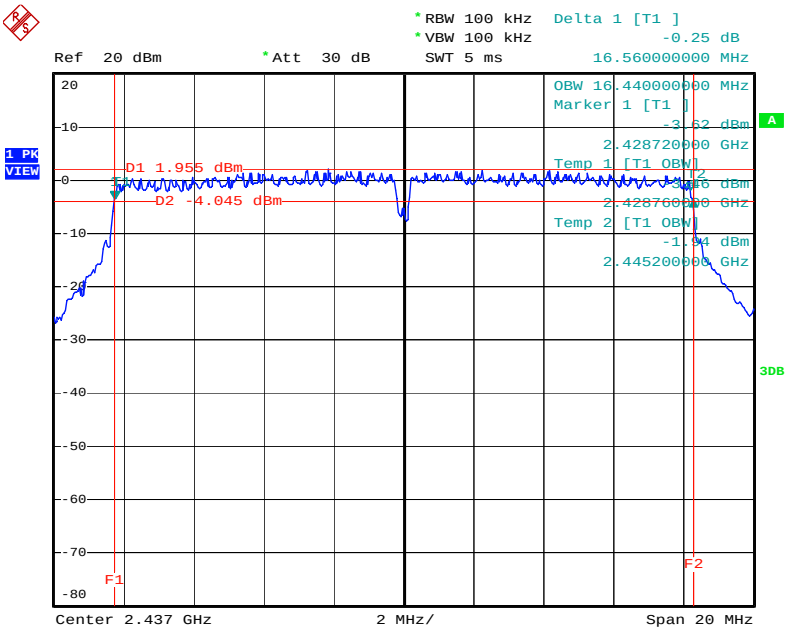
6 dB Bandwidth Plot on Configuration IEEE 802.11g / Connector 1 / 2437 MHz



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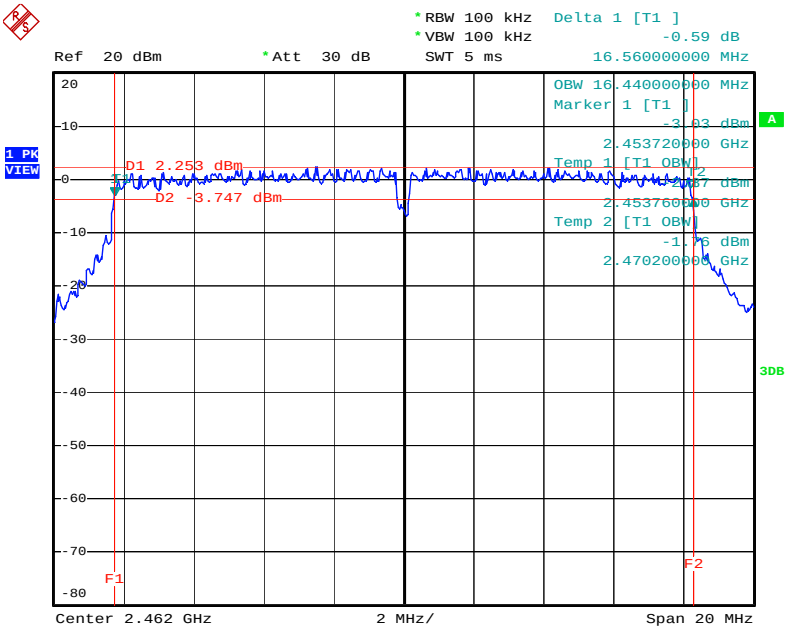
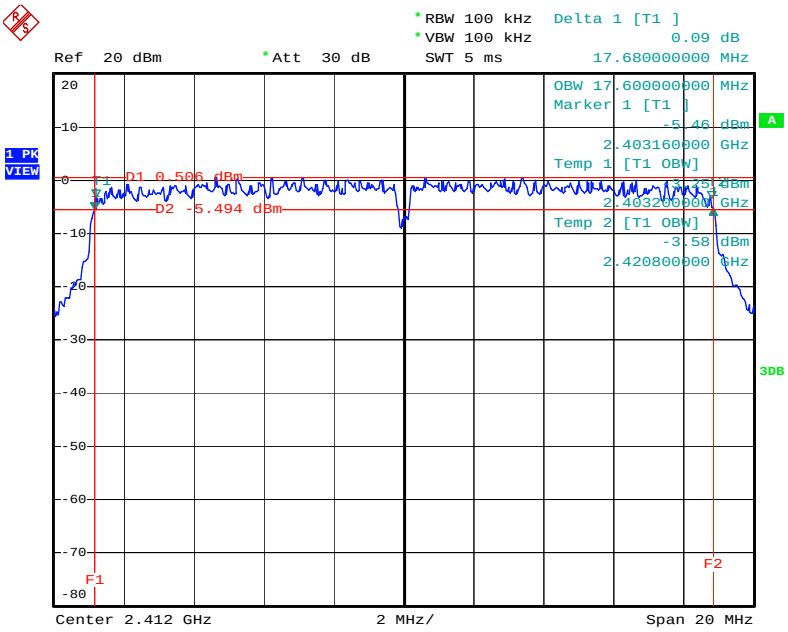
6 dB Bandwidth Plot on Configuration IEEE 802.11g / Connector 1 / 2462 MHz



Date: 1.OCT.2009 22:17:47

<For EUT 2 with Dipole antenna>

6 dB Bandwidth Plot on Configuration Draft n MCS0 20MHz / Connector 1 / 2412 MHz



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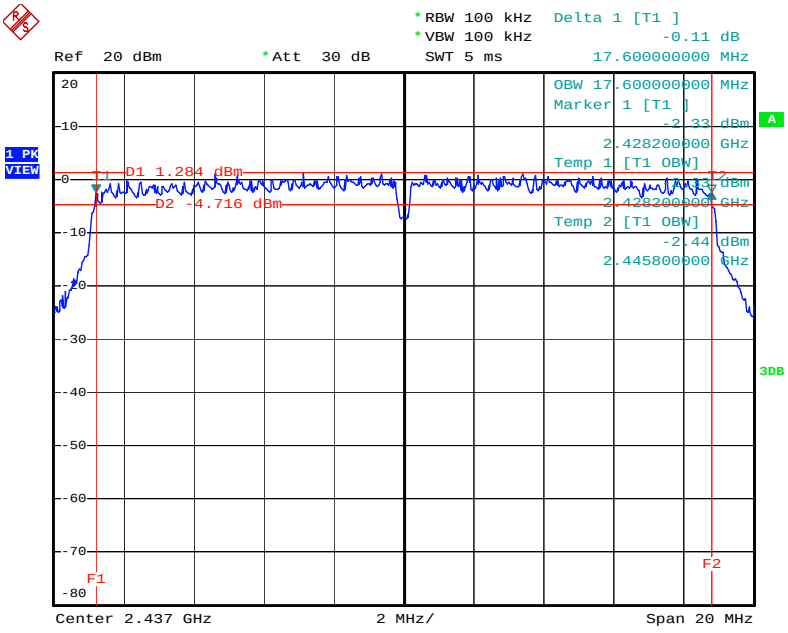
6 dB Bandwidth Plot on Configuration Draft n MCS0 20MHz / Connector 1 / 2437 MHz



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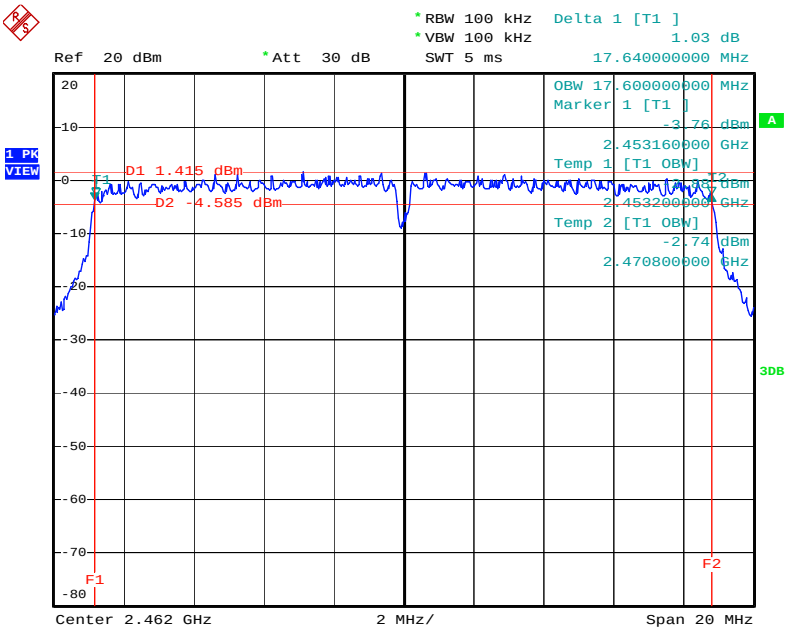
6 dB Bandwidth Plot on Configuration Draft n MCS0 20MHz / Connector 1 / 2462 MHz



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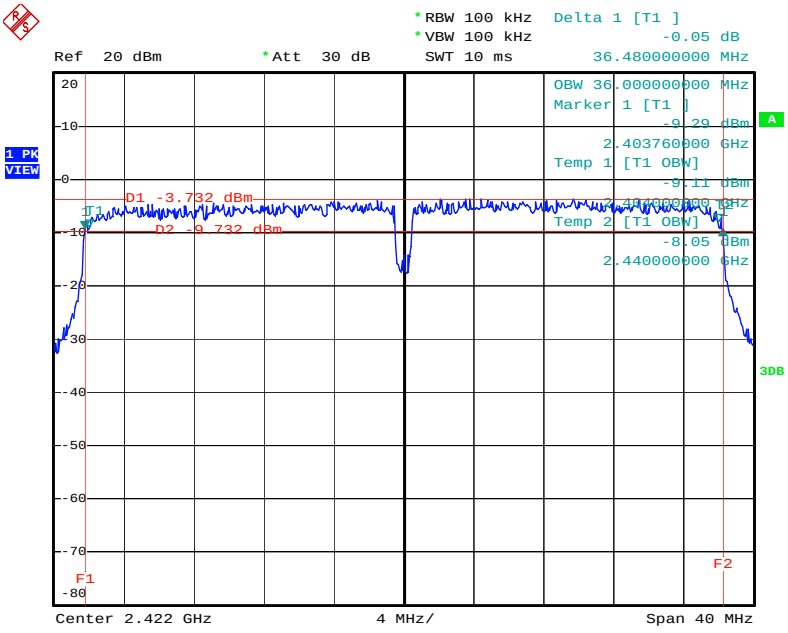
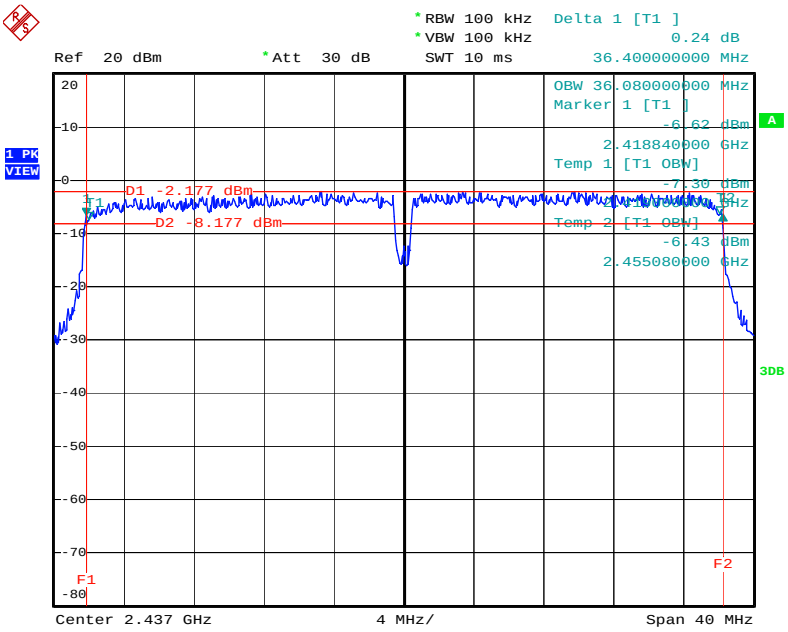
6 dB Bandwidth Plot on Configuration Draft n MCS0 40MHz / Connector 1 / 2422 MHz



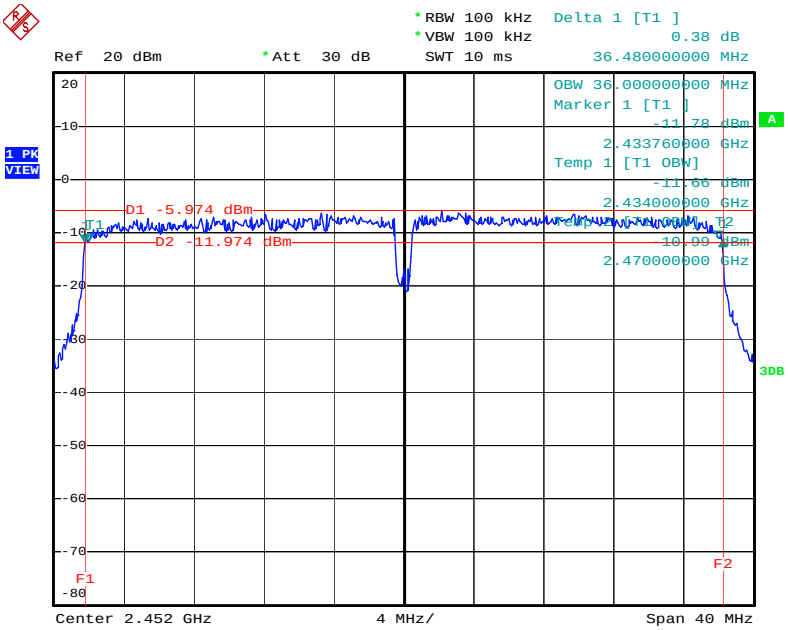
Date: 1.OCT.2009 21:13:29

6 dB Bandwidth Plot on Configuration Draft n MCS0 40MHz / Connector 1 / 2437 MHz



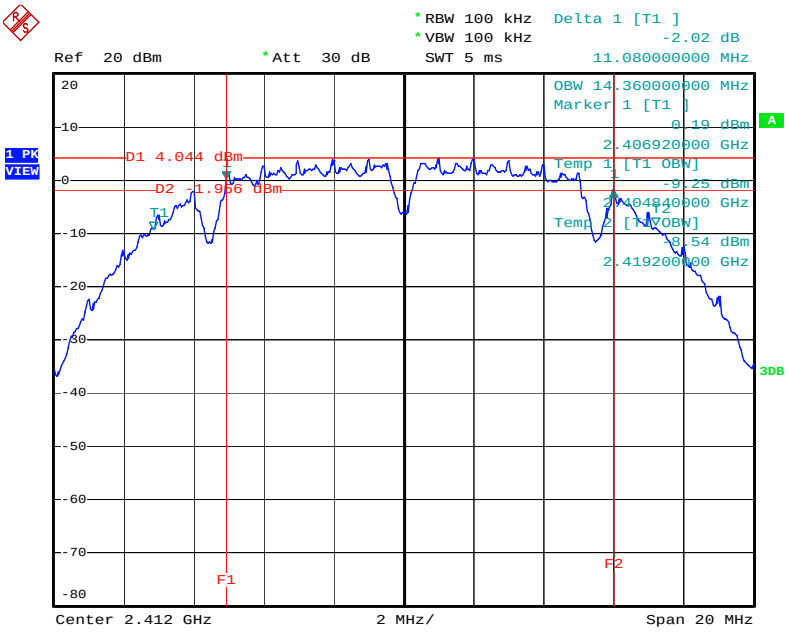
Date: 1.OCT.2009 21:16:10

6 dB Bandwidth Plot on Configuration Draft n MCS0 40MHz / Connector 1 / 2452 MHz



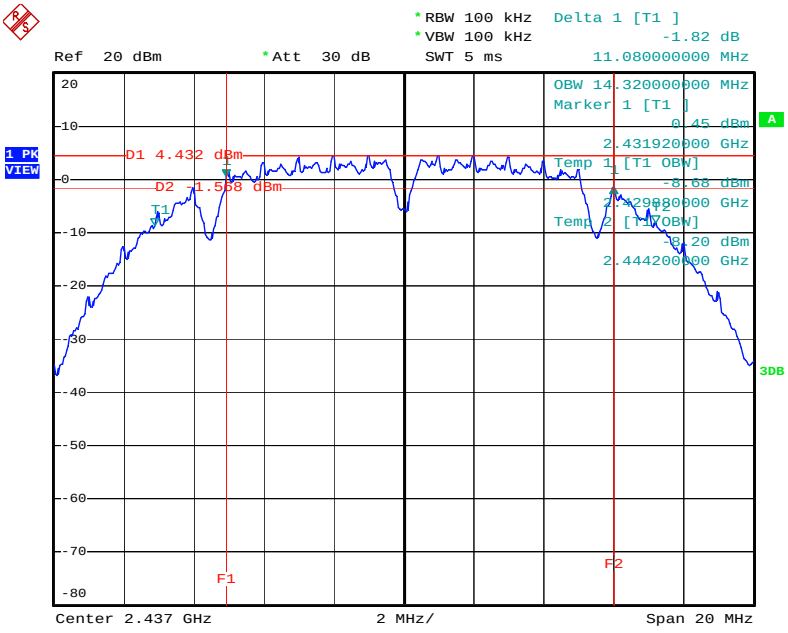
Date: 1.OCT.2009 21:29:48

6 dB Bandwidth Plot on Configuration IEEE 802.11b / Connector 1 / 2412 MHz



Date: 1.OCT.2009 20:53:04

6 dB Bandwidth Plot on Configuration IEEE 802.11b / Connector 1 / 2437 MHz



Date: 1.OCT.2009 20:48:34