



PRODUCT SAFETY AND COMPLIANCE EMC LABORATORY

EMC TEST REPORT - Addendum

Test Report Number –24331-1 WLAN

Report Date – 2011-01-26

The test results contained herein relate only to the model(s) identified. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics.

Signature:

Name: Lei Yang

Title: EMC Project Manager

Test: 2011-01-10 to 2011-01-19

As the responsible test lab manager, I hereby declare that the model tested as specified in this report conforms to the requirements indicated.

Signature:

Name: Yilin Zhao

Title: Test Lab Manager

Date: 2011-04-27

This report must not be reproduced, except in full, without written approval from this laboratory.

FCC Registration Number: 177885

IC Registration Number: 109AW-1

ADR Testing Service location ADR BJ

ISO/IEC-17025:2005 accredited by UKAS



Table of Contents

Test Report Details	3
Applicable Standards	3
Summary of Testing.....	4
General and Special Conditions.....	4
Equipment and Cable Configurations.....	5
Measuring Equipment and Calibration Information	5
Description of WLAN Transmitter.....	5
Measurement Procedures and Data.....	6
Spectrum Bandwidth.....	6
Measurement Procedure.....	6
Measurement Results	6
PEAK OUTPUT POWER	31
Measurement Procedure.....	31
Measurement Results	31
Power Spectral Density.....	46
Measurement Procedure.....	46
Measurement Results	46
SPURIOUS RF CONDUCTED EMISSIONS	47
Measurement Procedure.....	47
Measurement Results	47
AC LINE CONDUCTED EMISSIONS	92
Measurement Procedure.....	92
Measurement Results	92

Test Report Details

Tests Performed By: Motorola (Beijing) Mobility Technologies Co., Ltd.
Asia Global Compliance Labs
No.1 Wang Jing East Road
Chao Yang District
Beijing, 100102, P. R. China
Phone: +86 10 8473 2610
FCC Registration Number: 177885
IC Registration Number: 109AW-1

Tests Requested By: Motorola (Beijing) Mobility Technology Co., Ltd.
No.1 Wang Jing East Road, Chao Yang District,
Beijing 100102, P.R. China

Product Type: Cell phone with embedded WLAN

Signaling Capability: GSM 1900, Edge 1900, Bluetooth, 802.11 b & g & n

IMEI: 860403000051289

FCC ID: IHDT56MC1

Project number: 24331-1

Testing Complete Date: 2011-01-26

Applicable Standards

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

 X Part 15 Subpart C – Intentional Radiators

Applicable Standards: ANSI C63.4-2003, RSS-Gen Issue 3, RSS-210 Issue 8.

Summary of Testing

Test	Test Name	Pass/Fail
1	Spectrum Bandwidth	Pass
2	Peak Power	Pass
3	Power Spectral Density	Pass
4	Spurious RF Conducted Emissions	Pass
5	AC Line Conducted Emissions	Pass

Test	Test Name	Results
1	Spectrum Bandwidth	See plots
2	Peak Power	See plots
3	Power Spectral Density	See tables
4	Spurious RF Conducted Emissions	See plots
5	AC Line Conducted Emissions	See Plots

General and Special Conditions

The Cellular Phone hereinafter referred to as the Equipment under Test or EUT was tested using a fully charged model SNN5879A 1930mAH battery when applicable. Where a battery could not be used due to the need for a controlled variation of input voltage, an external power supply was utilized.

All testing was done in an indoor controlled environment. The temperature and the relative humidity were maintained within the ANSI C63.4-2003 Standard requirements during the entire duration of testing.

Equipment and Cable Configurations

The EUT was tested in a stand-alone configuration that is representative of typical use.

Measuring Equipment and Calibration Information

Manufacturer	Equipment Type	Model No.	Serial Number	Date of Calibration
Rohde Schwarz	Receiver	FSU26	200353	03/04/10
Rohde Schwarz	Receiver	ESCI	100650	03/09/10
Agilent	Attenuator	8491A	MY39263202	NCR
Rohde Schwarz	LISN	ENV216	100055	12/20/2010

All test equipment was within their calibration date during the time of testing. When equipment went out of calibration during testing it was replaced using a similar piece of calibrated equipment. All these equipments are listed in the equipment list. The LISI is on a two-year calibration cycle. All other equipments are on a one-year calibration cycle.

Description of WLAN Transmitter

The EUT offers WLAN as a feature. The WLAN antenna is mounted inside of the EUT. The antenna installation is permanent. For a more thorough description of the functionality please refer to Exhibit 12 of this package.

As a WLAN transmitter, it is designed operate with other WLAN devices as defined by the industrial standard. In this application, the device is battery operated.

De Facto EIRP Limit – Pursuant 47 CFR 15.247(b)(4); RSS-210 Section A8.4.

Criterion: The conducted output power limit of 1-watt is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna employed by this transmitter is intended to be omni-directional, and thus will not exhibit directional gain in excess of 6 dBi. The conducted power is less than the limits set forth (see elsewhere in this report for details).

Measurement Procedures and Data

Spectrum Bandwidth

CFR 47 Part 15.247

Measurement Procedure

The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 20dB passive attenuator. A fully charged battery was used for the supply voltage.

The WLAN emission of the EUT was enabled. The spectrum analyzer used the following settings:

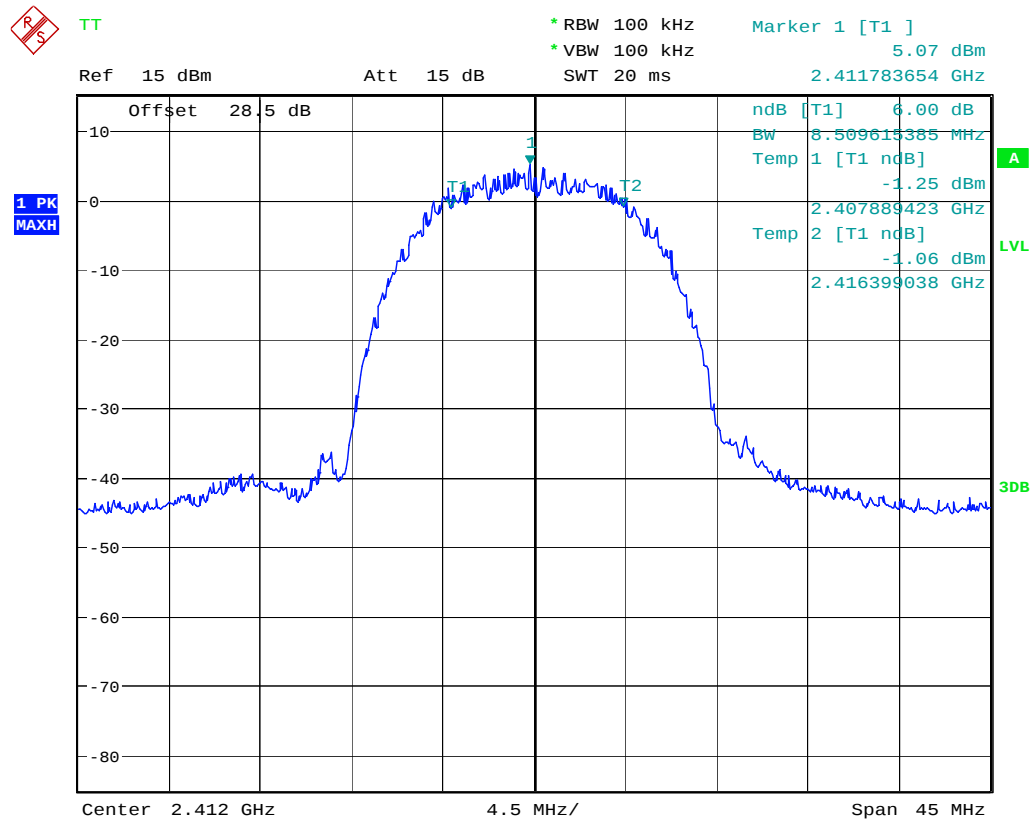
1. $RBW \geq 100 \text{ kHz}$
2. $VBW \geq RBW$
3. Sweep = auto
4. Detector function = peak
5. Trace = max hold

The trace was allowed to stabilize. The EUT was transmitting at its maximum data rate. The marker-to-peak function was used to set the marker to the peak of the emission. The n dB down function was used to measure 6 dB down one side of the emission. The n dB down function and marker was moved to the other side of the emission until it was even with the reference marker. The 6 dB down reading at this point was the 6 dB bandwidth of the emission. The same procedure was repeated for 20 dB bandwidth.

Measurement Results

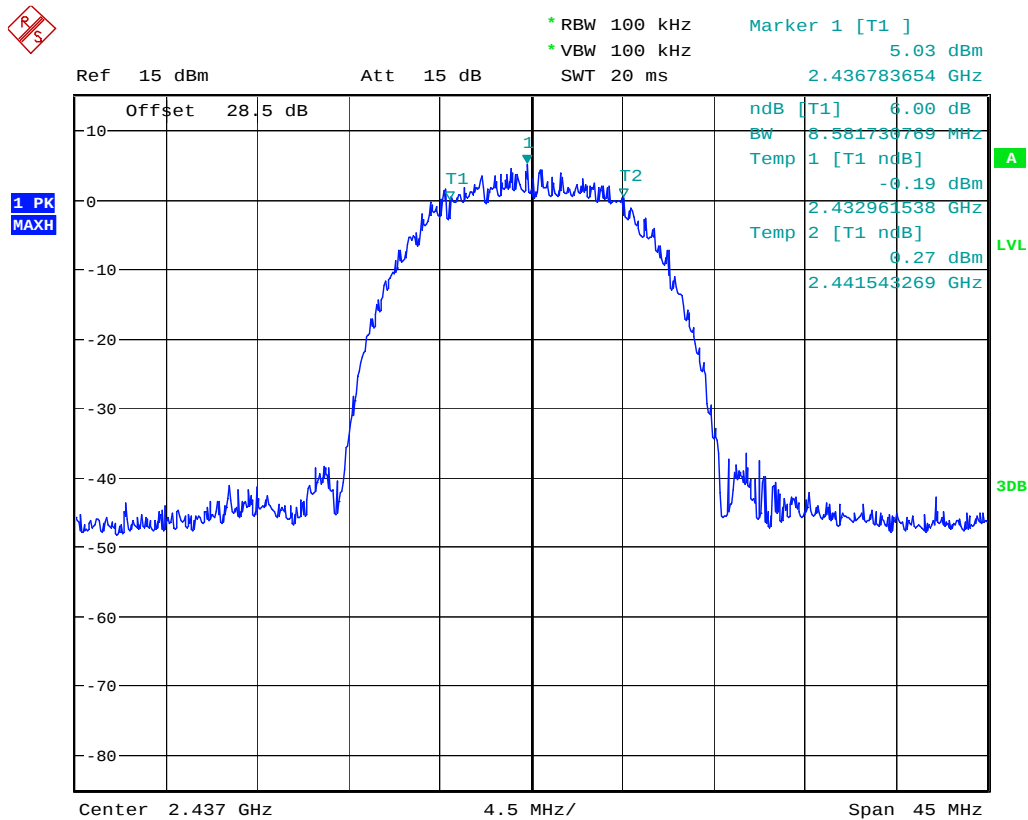
See attached

802.11 b @ 11Mbps



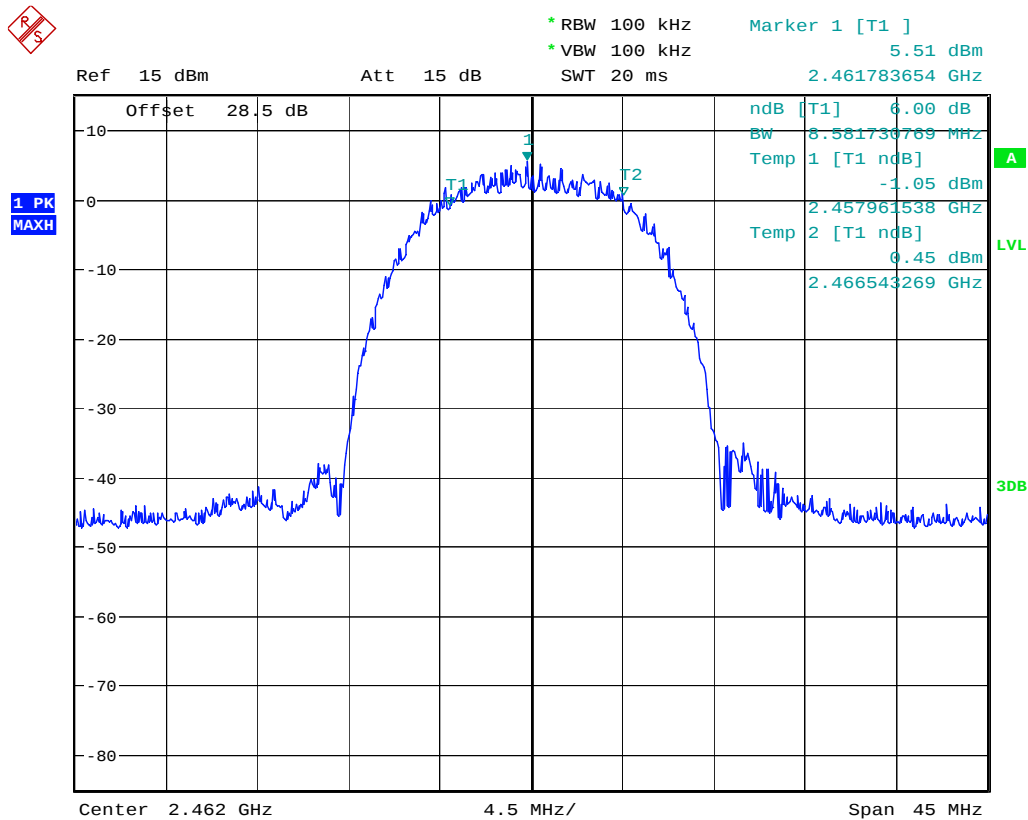
Date: 21.JAN.2011 11:09:15

6dB Bandwidth Channel 1 @ 11Mbps



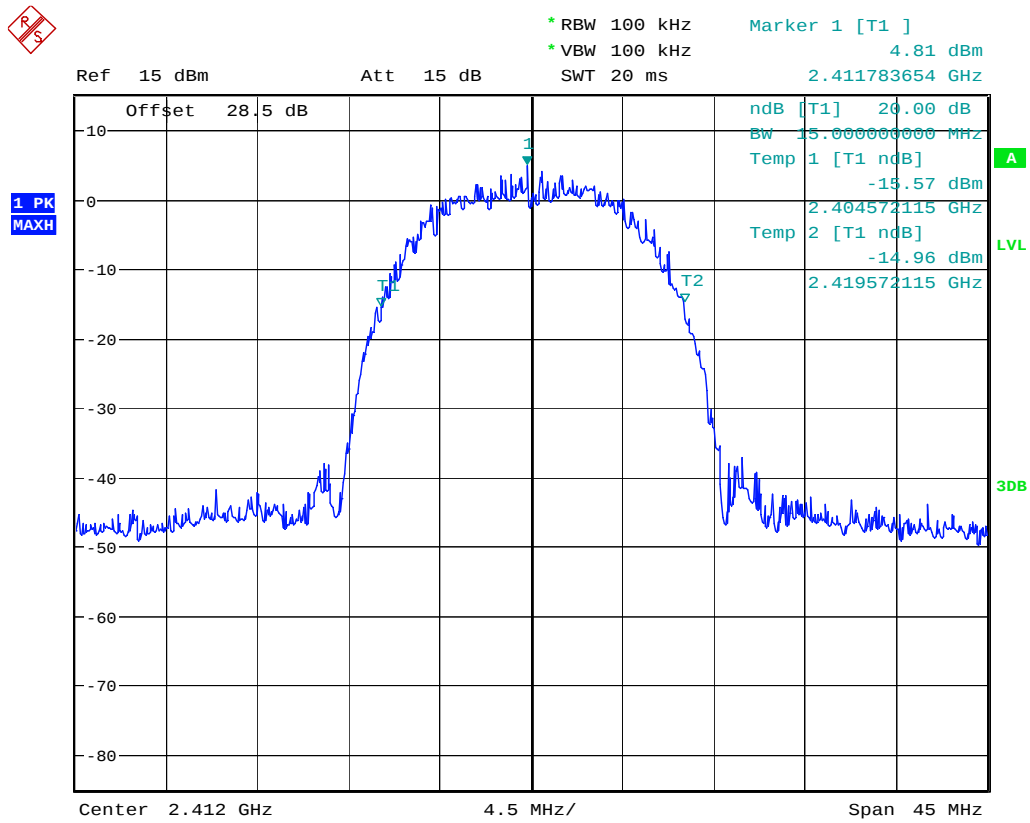
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6dB Bandwidth Channel 6 @ 11Mbps



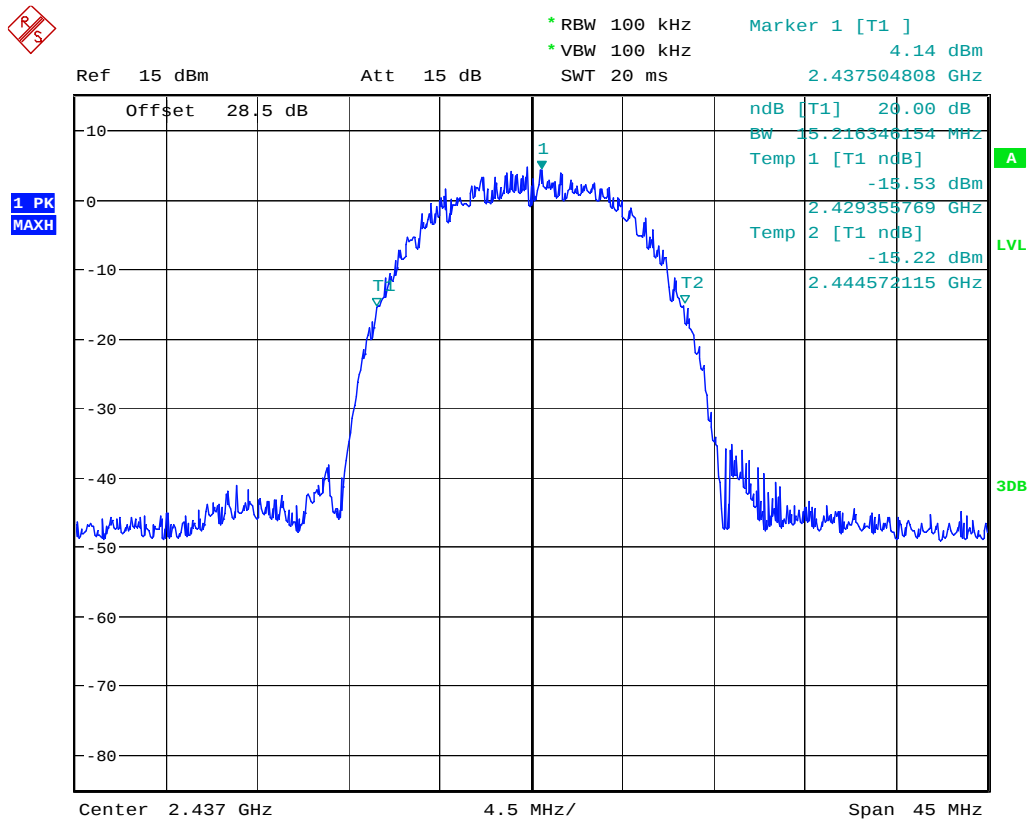
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6dB Bandwidth Channel 11 @ 11Mbps



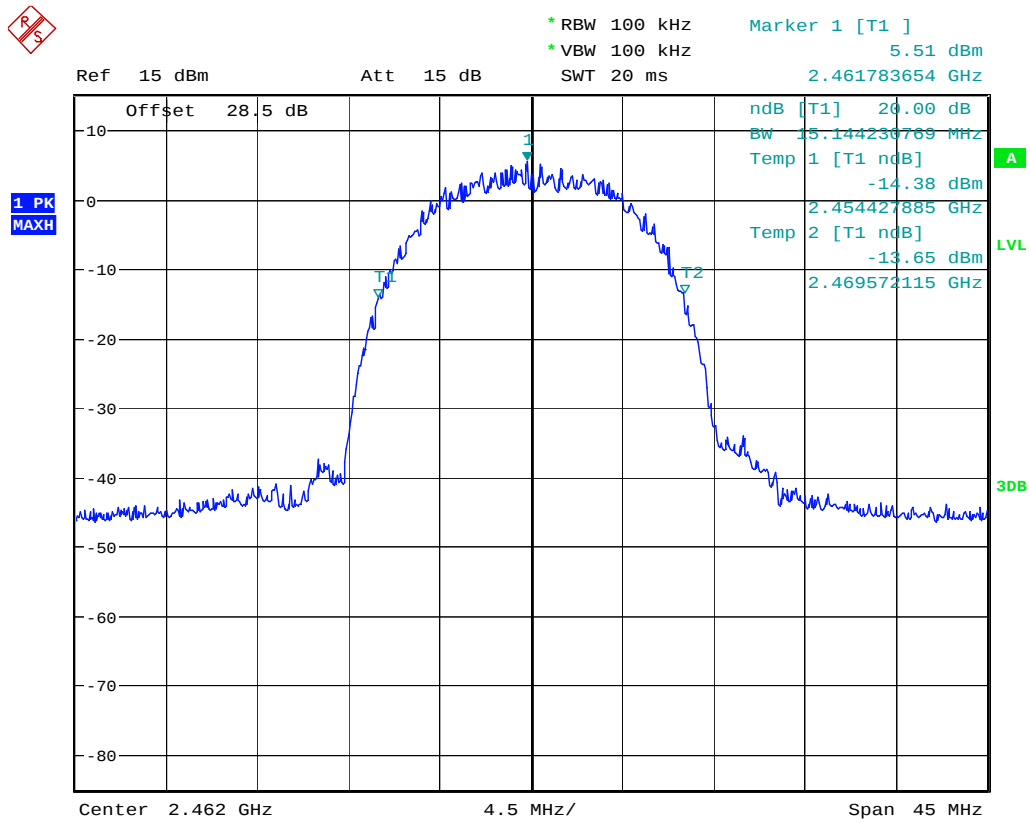
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20dB Bandwidth Channel 1 @ 11Mbps



Date: 21.JAN.2011 11:16:40

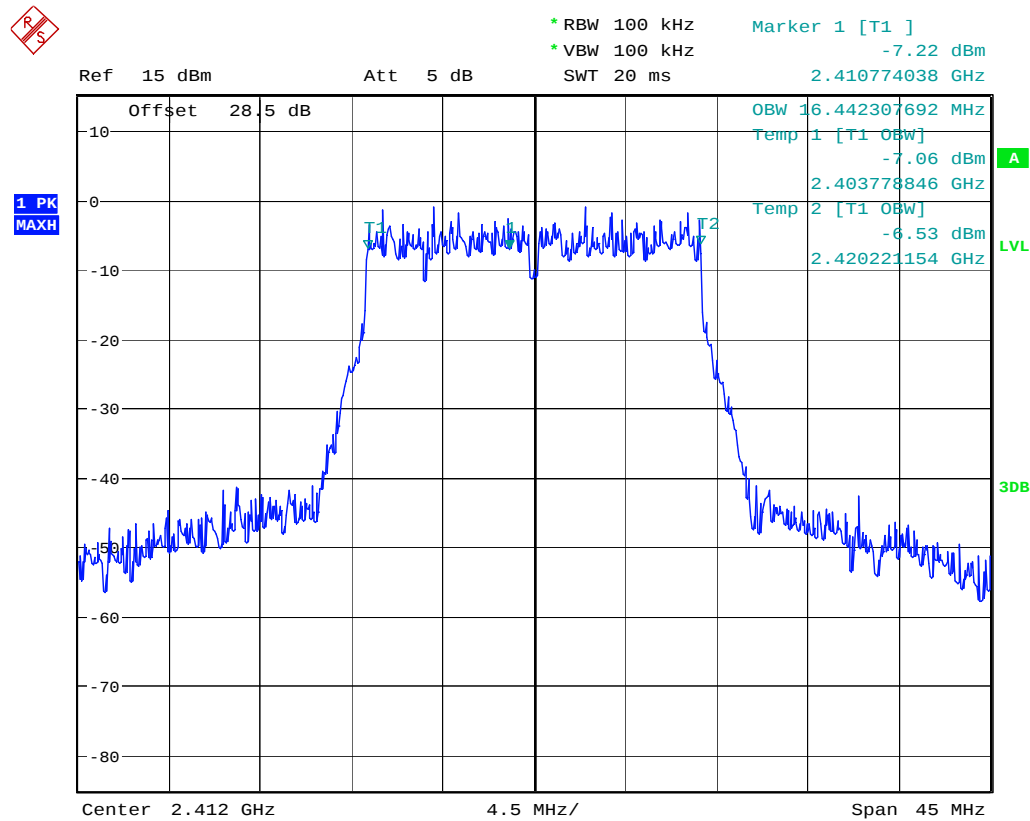
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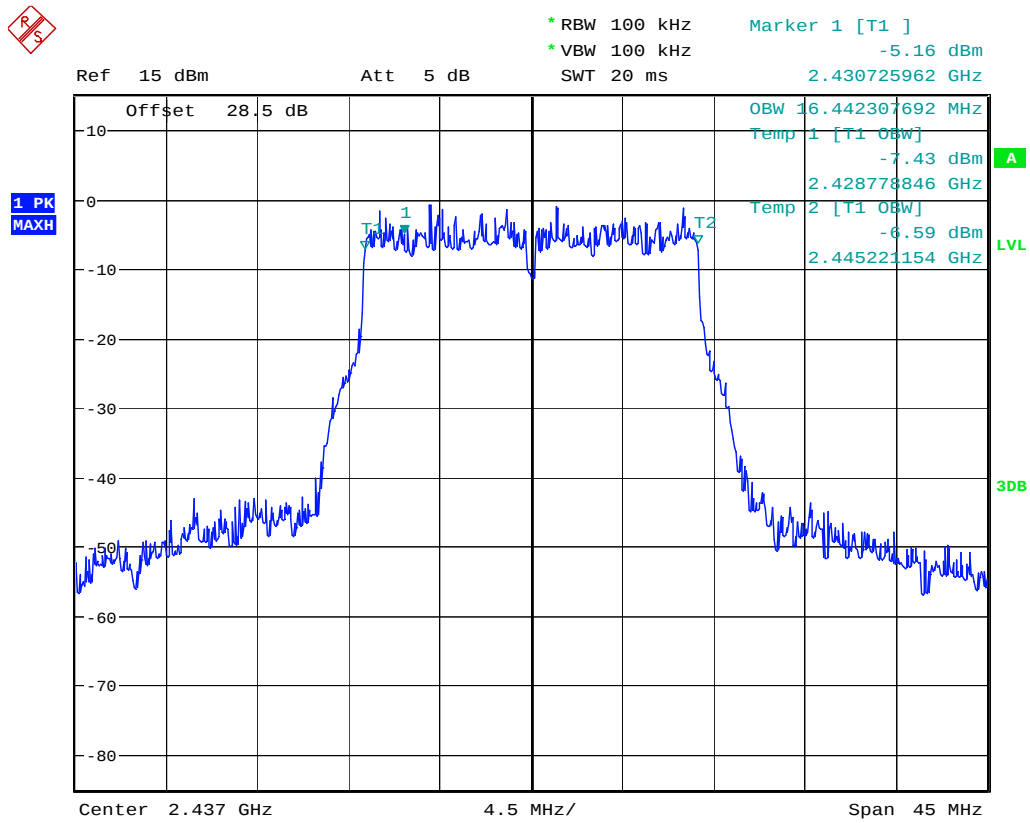
20dB Bandwidth Channel 11 @ 11Mbps

802.11 g @ 48Mbps



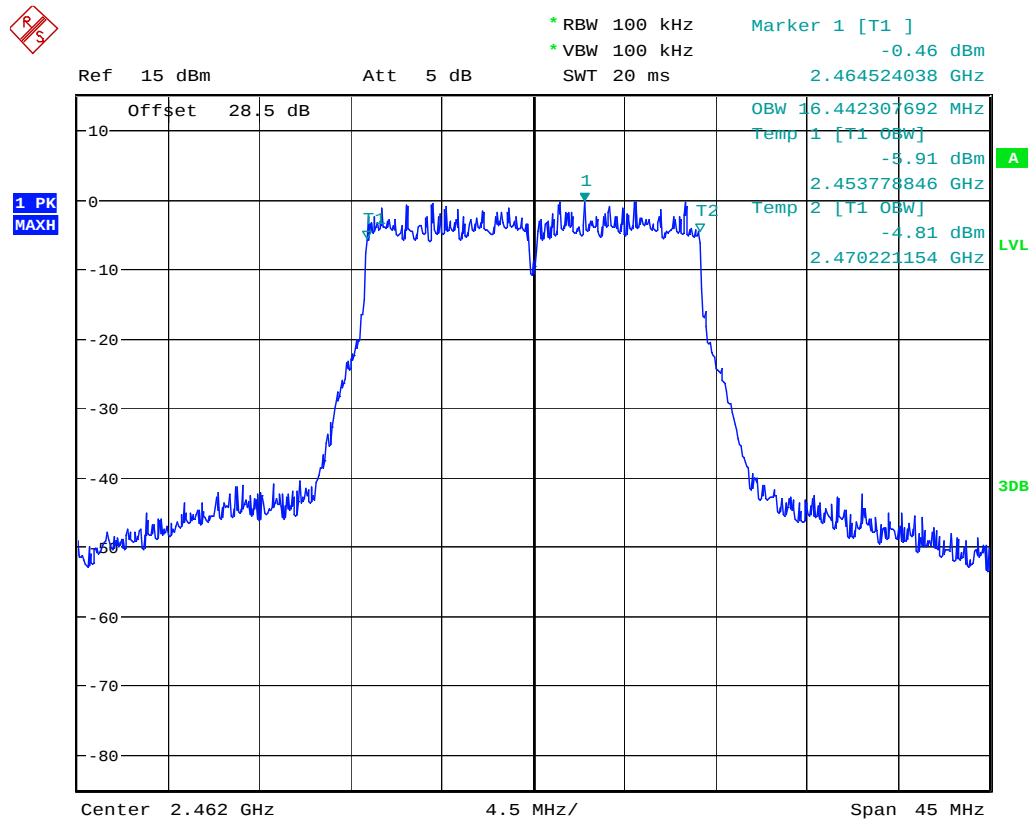
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6dB Bandwidth Channel 1 @48Mbps



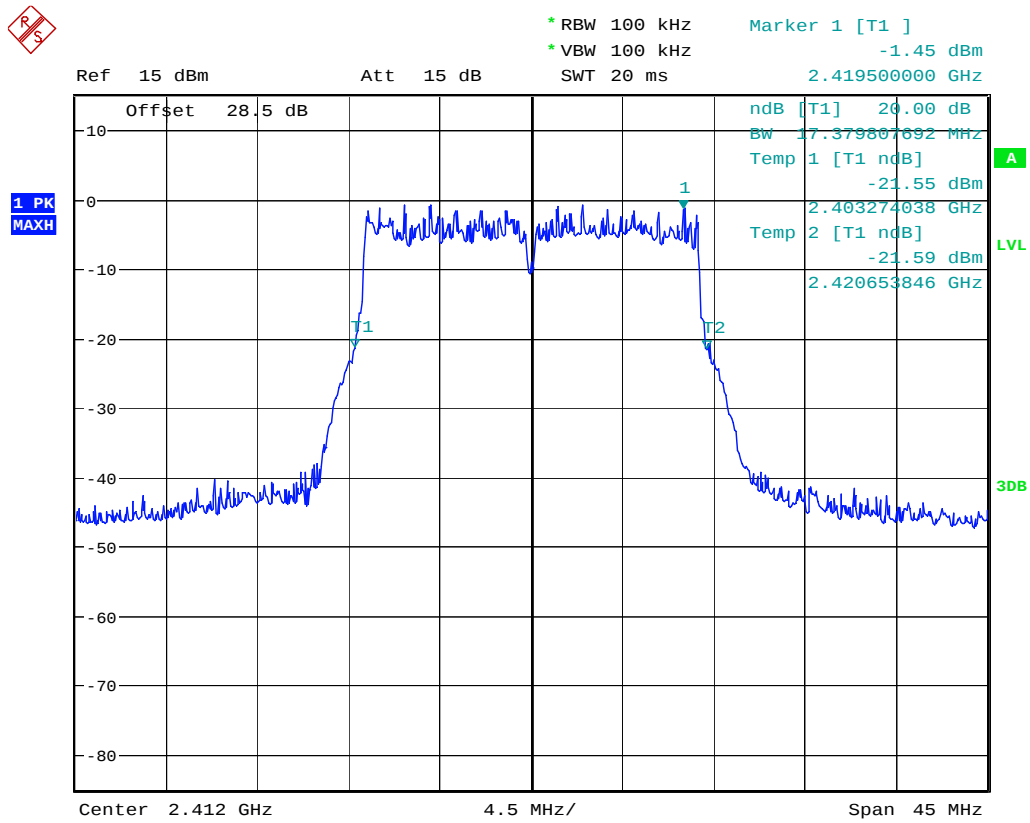
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6dB Bandwidth Channel 6@ 48Mbps



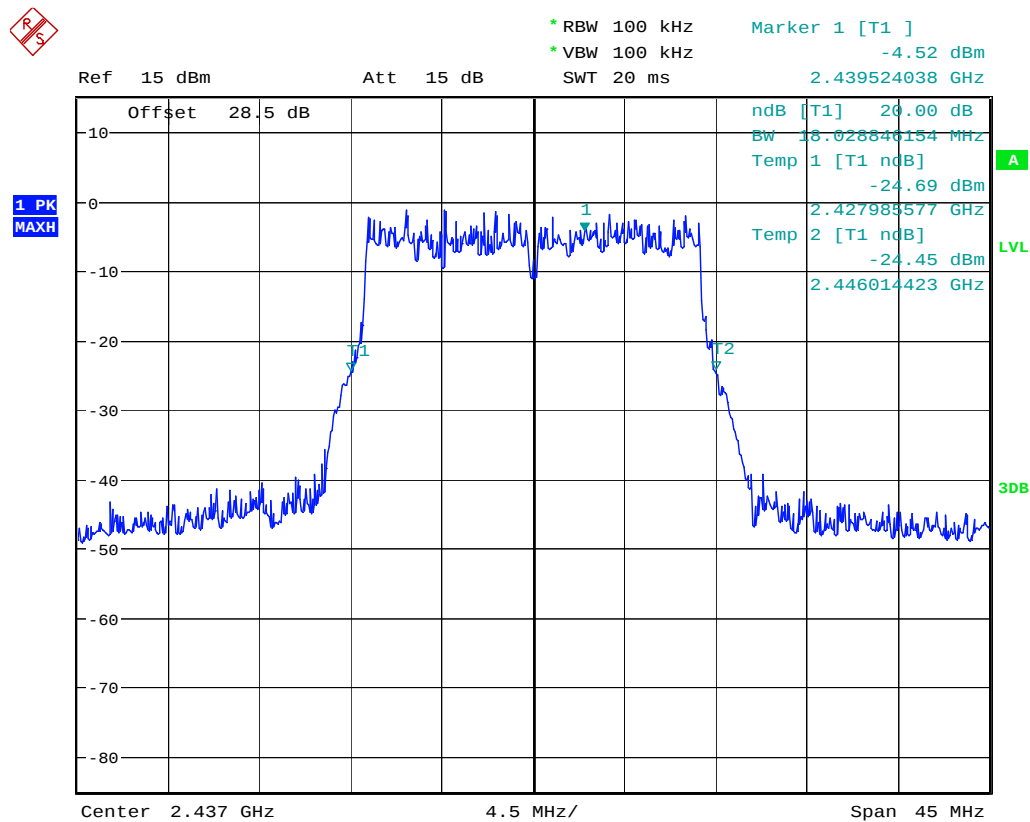
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6dB Bandwidth Channel 11 @ 48Mbps



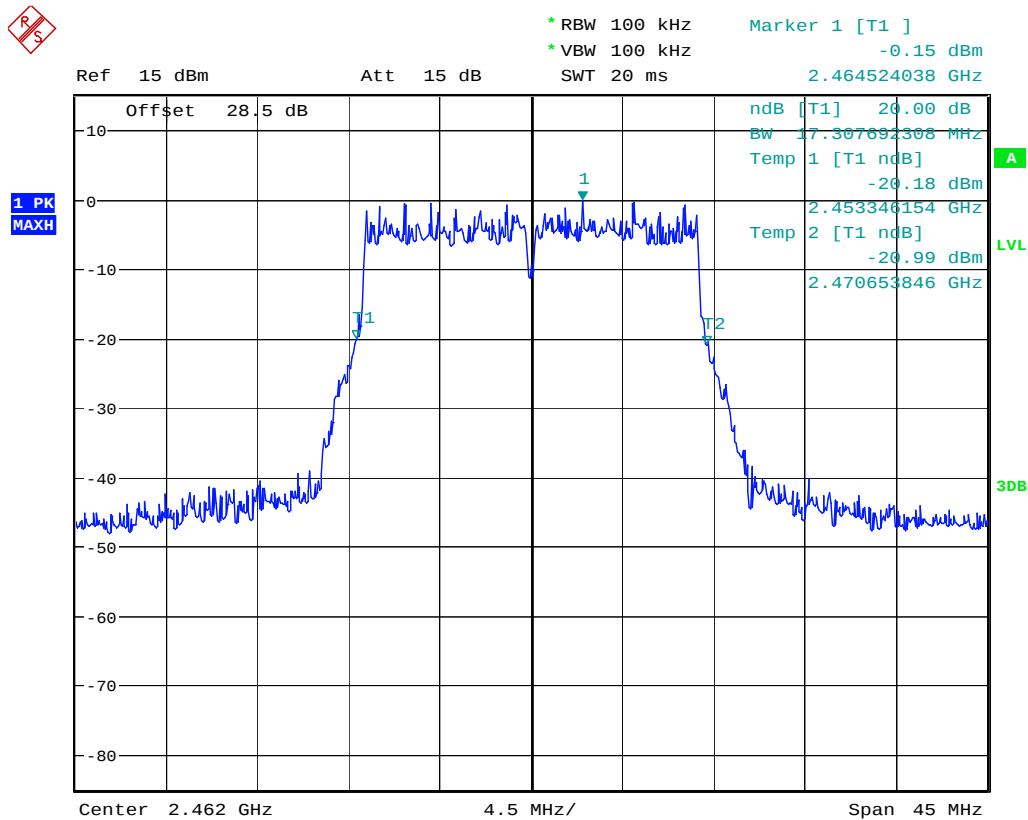
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20dB Bandwidth Channel 1 @ 48Mbps



Date: 21.JAN.2011 13:26:45

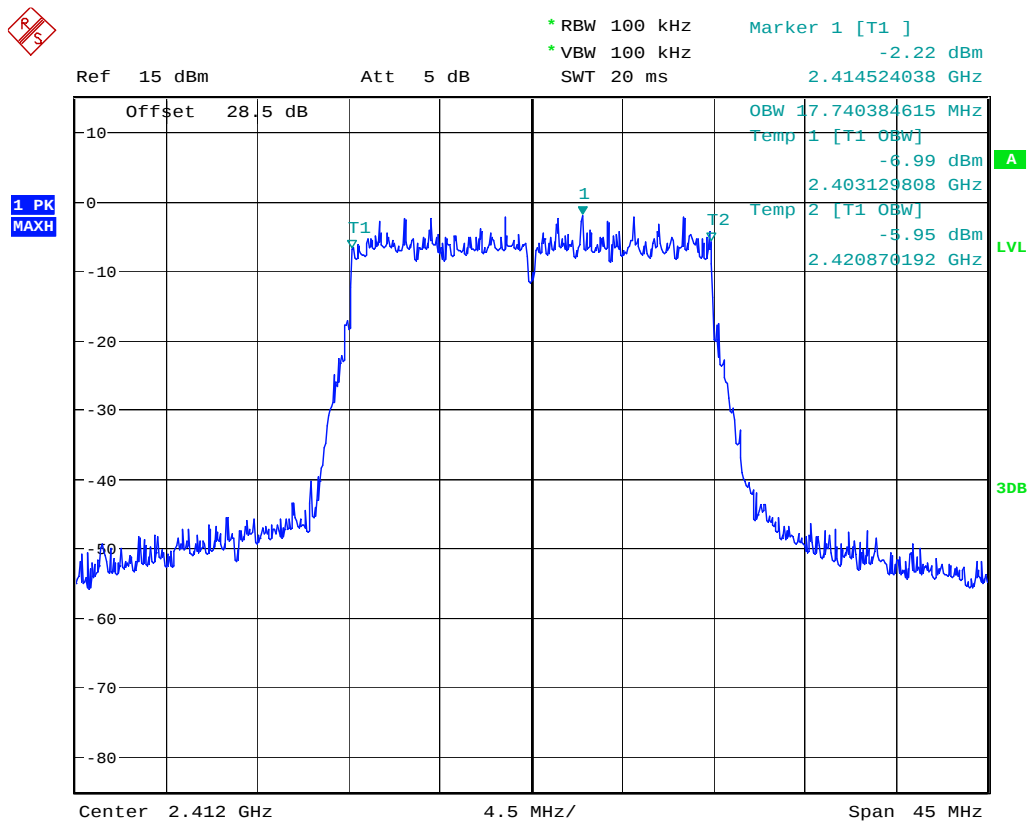
20dB Bandwidth Channel 6 @ 48Mbps



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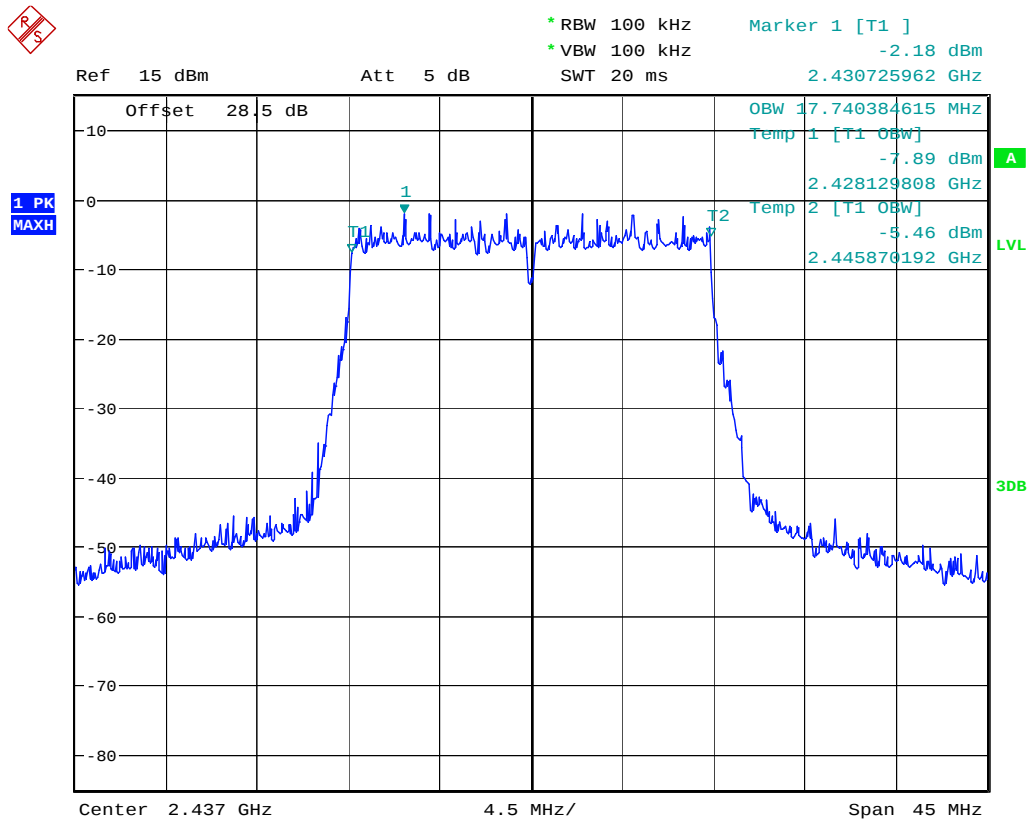
20dB Bandwidth Channel 11 @ 48Mbps

802.11 n 400ns GI @ 65 Mbps



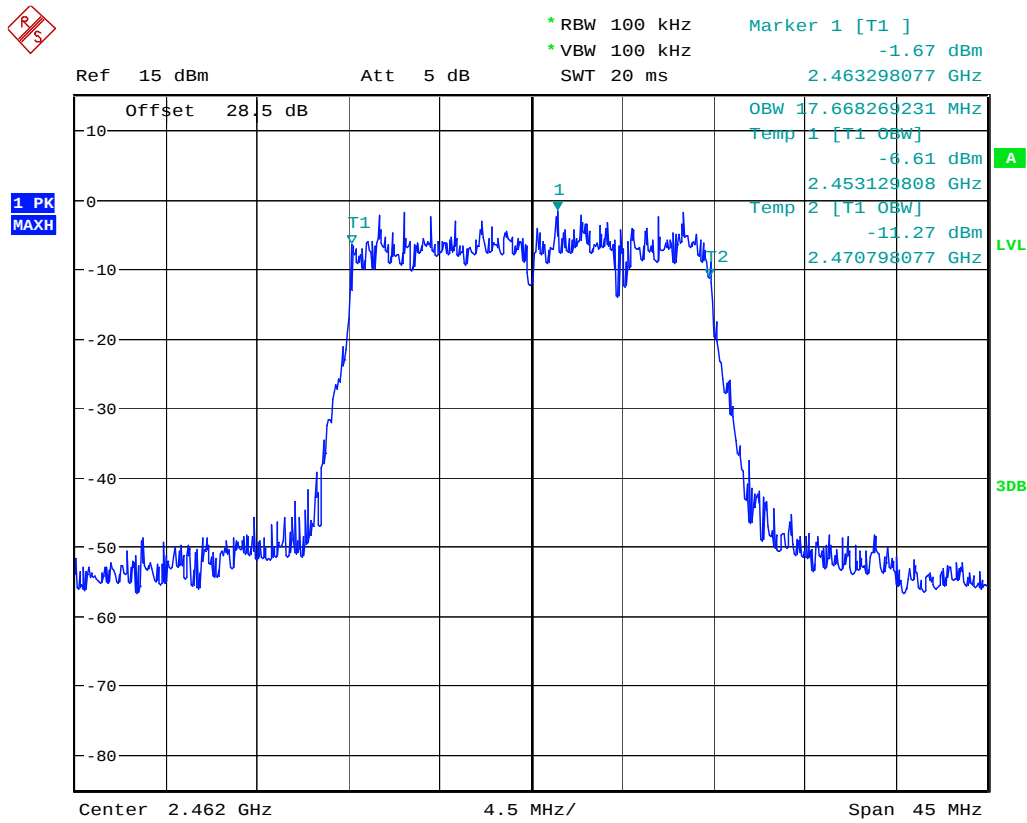
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6dB Bandwidth Channel 1 @ 65Mbps



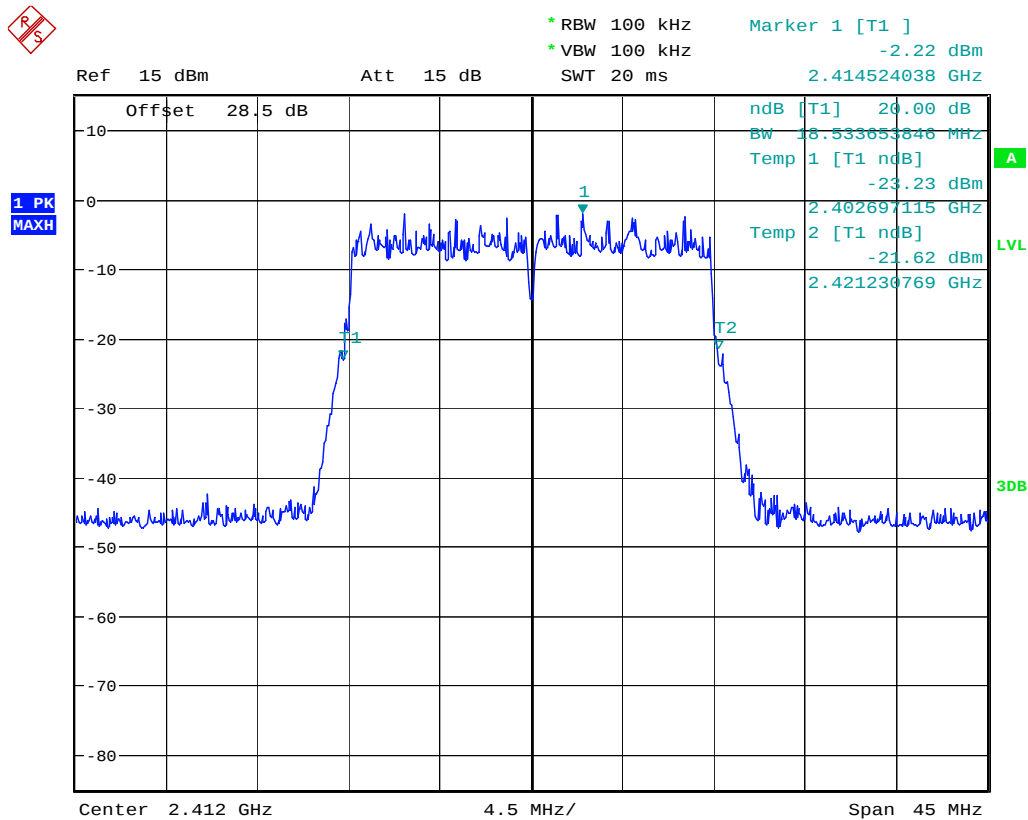
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6dB Bandwidth Channel 6 @ 65Mbps



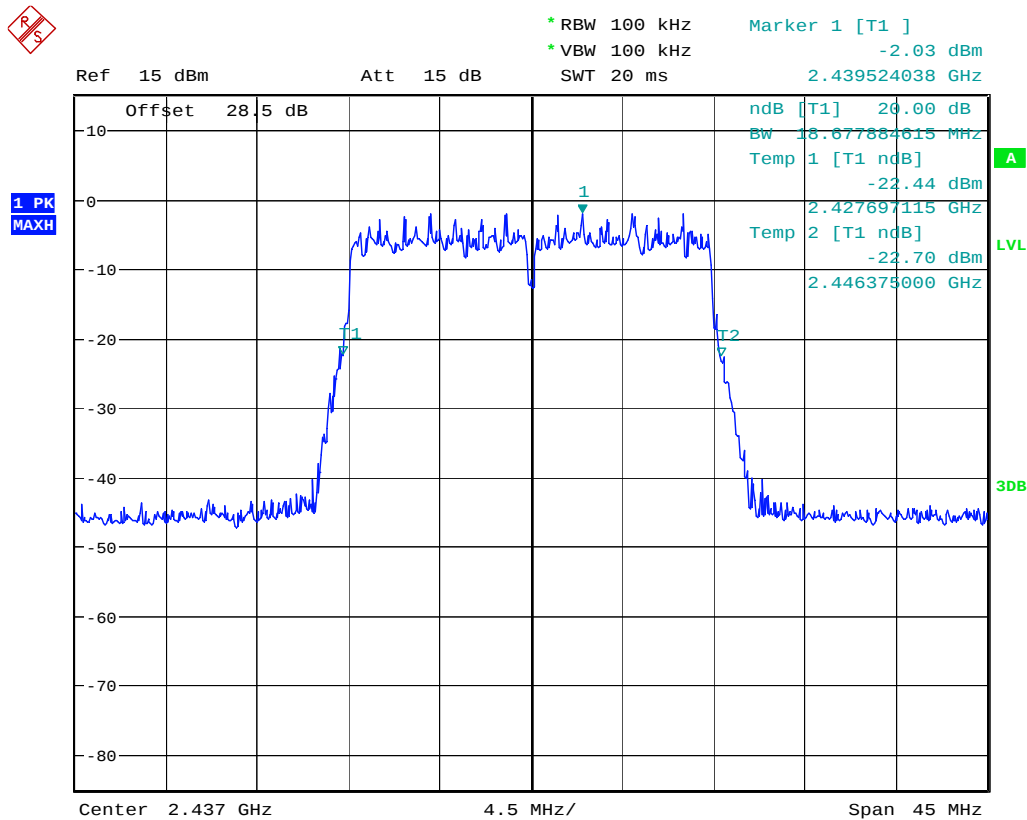
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6dB Bandwidth Channel 11 @ 65Mbps



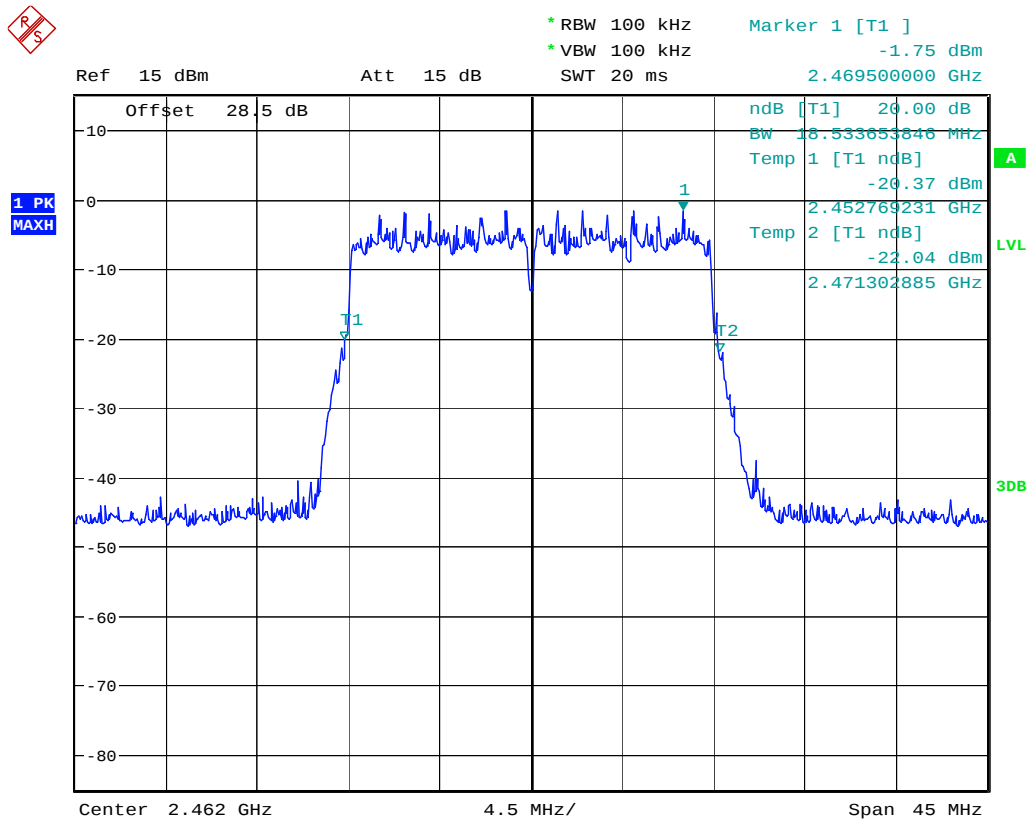
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20dB Bandwidth Channel 1 @ 65Mbps



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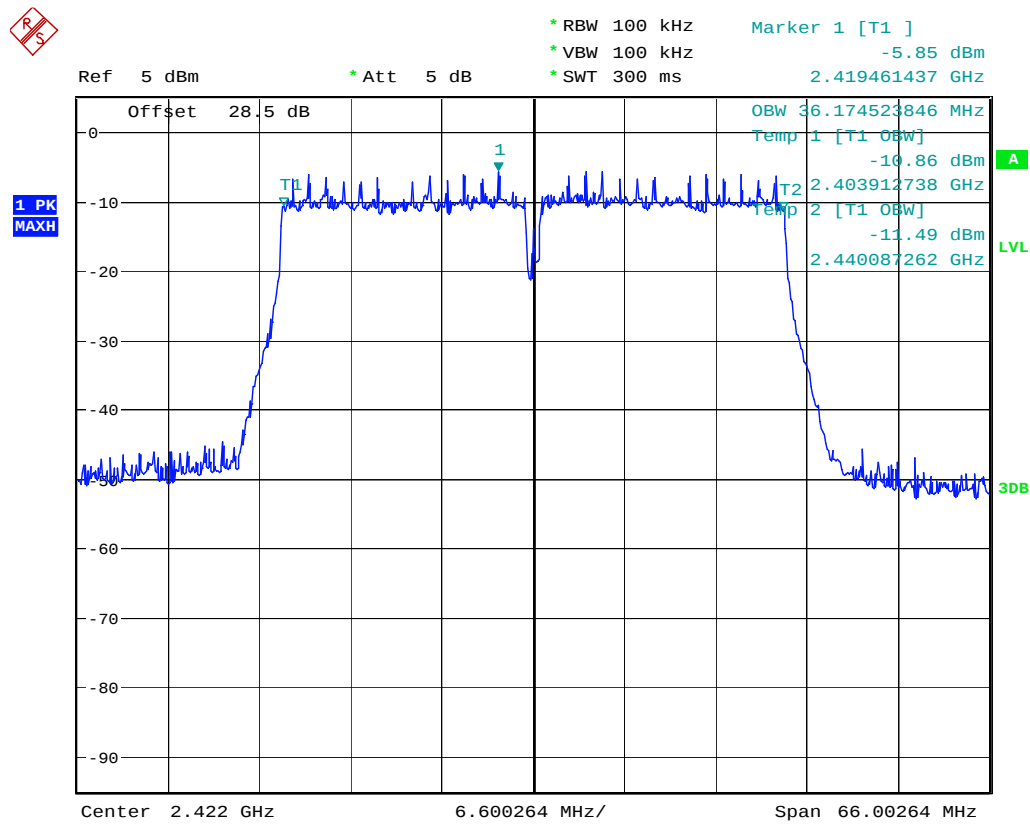
20dB Bandwidth Channel 6 @ 65Mbps



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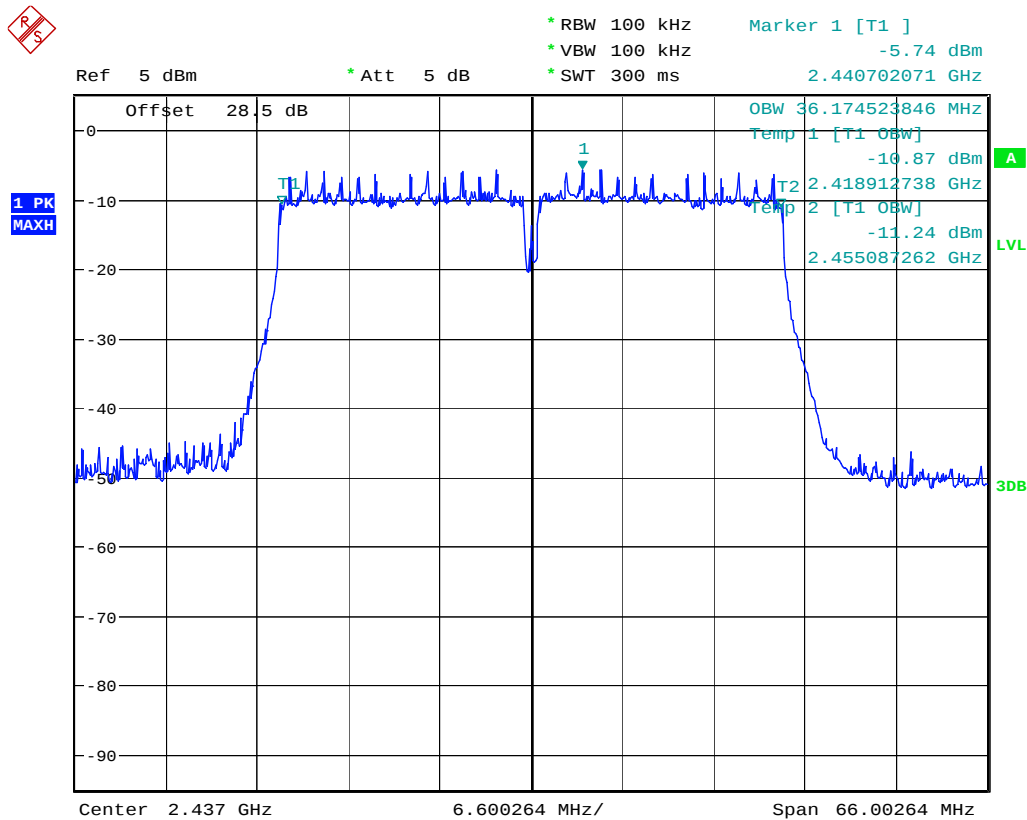
20dB Bandwidth Channel 11 @ 65Mbps

802.11 n 800ns GI 40M BW @ 13.5Mbps



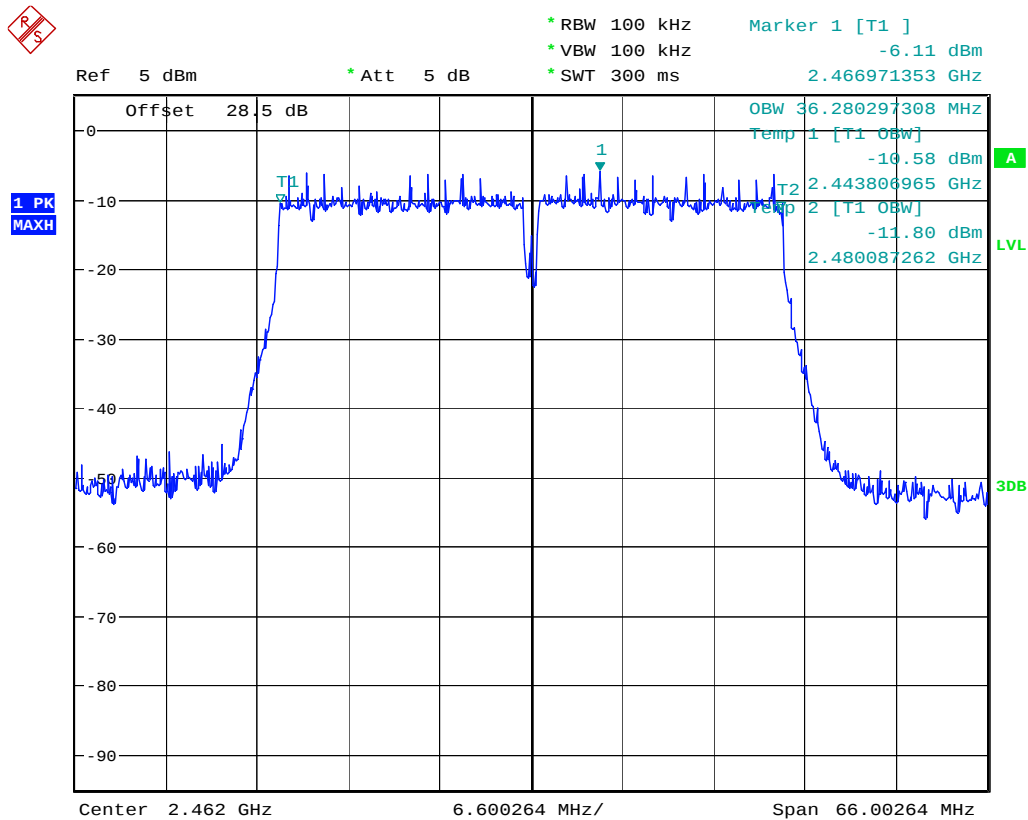
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6dB Bandwidth Channel 3 @ 13.5Mbps



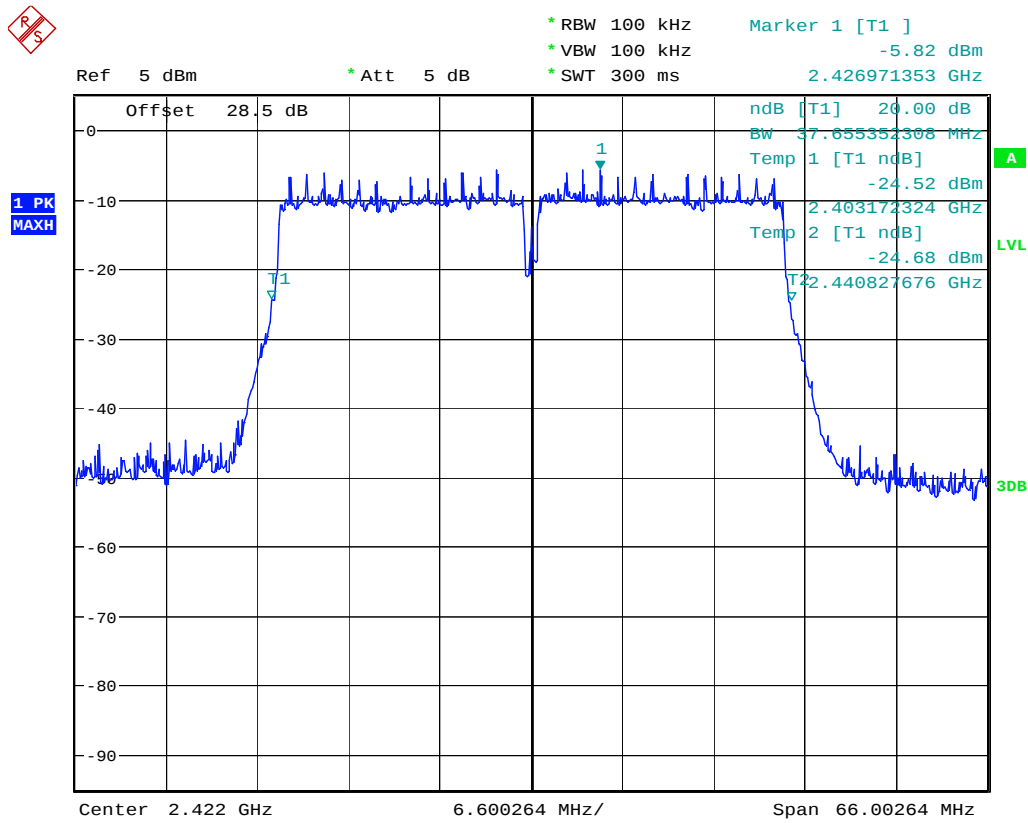
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6dB Bandwidth Channel 6 @ 13.5Mbps



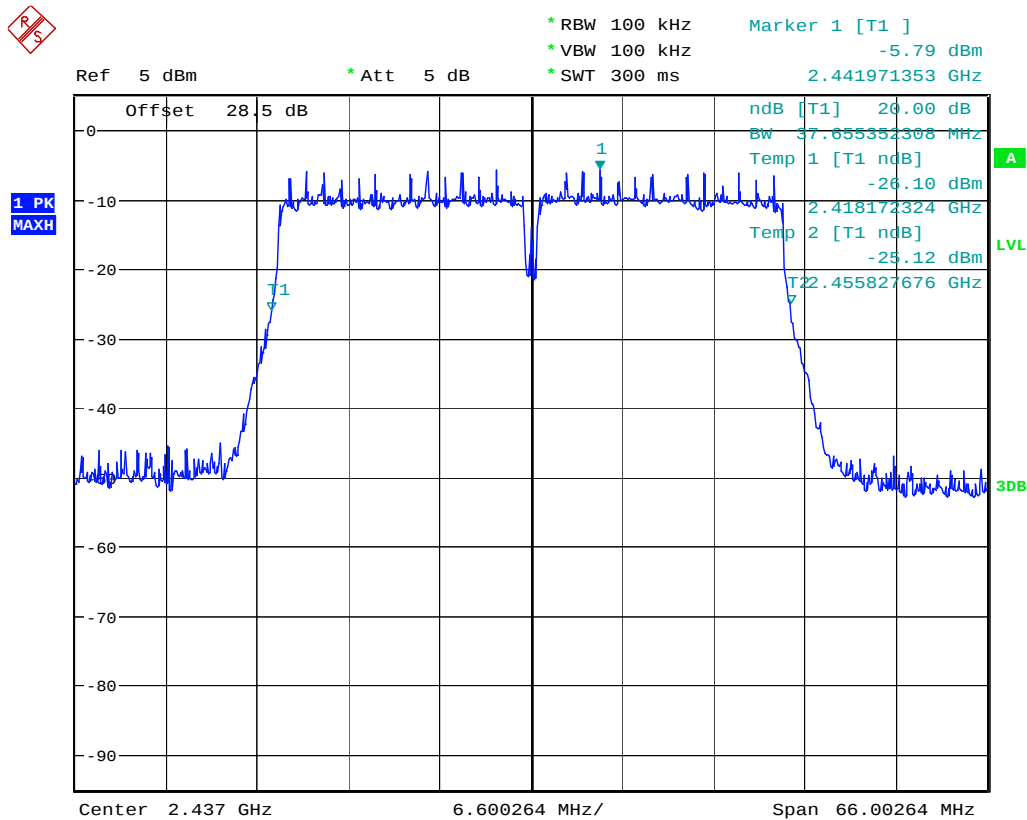
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6dB Bandwidth Channel 11 @ 13.5Mbps



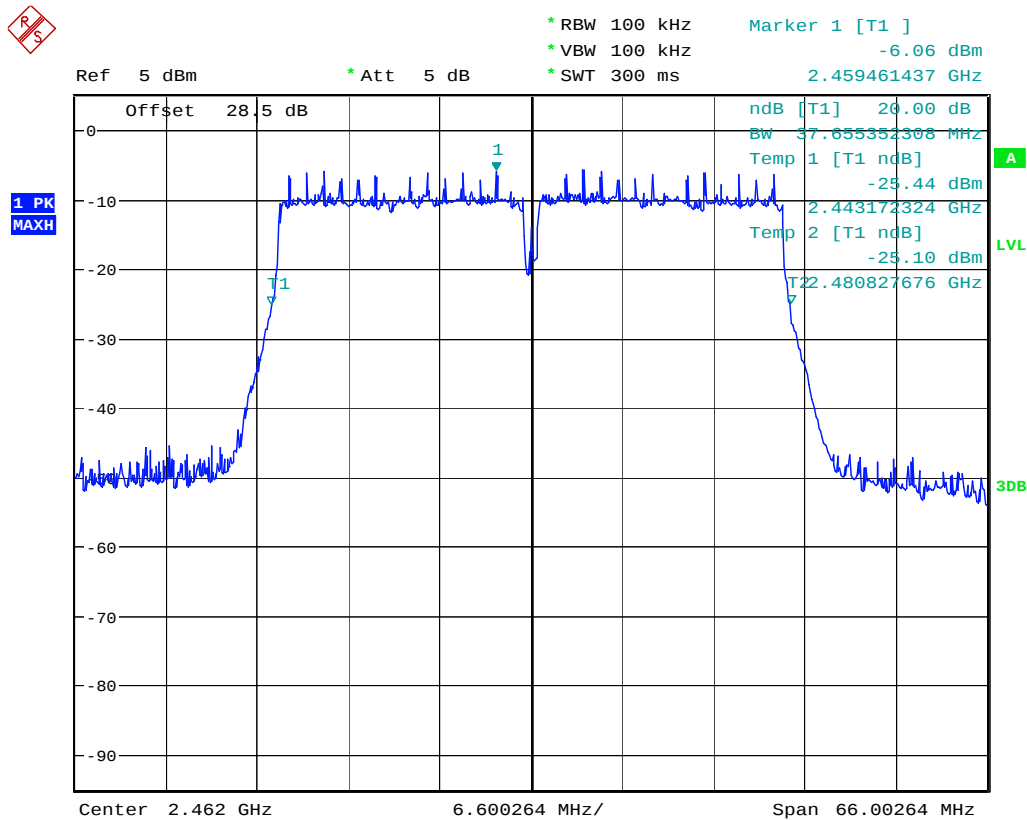
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20dB Bandwidth Channel 3 @ 13.5Mbps



Date: 27.JAN.2011 15:04:03

20dB Bandwidth Channel 6 @ 13.5Mbps



Date: 27.JAN.2011 15:08:28

20dB Bandwidth Channel 11 @ 13.5Mbps

PEAK OUTPUT POWER

CFR 47 Part 15.247

Measurement Procedure

The RF output port of the Equipment-Under-Test is directly coupled to the input of the Spectrum analyzer through a specialized RF connector and a 20dB passive attenuator. A fully charged battery was used for the supply voltage. Initially, an average detector is used to measure power in the low, middle and high channels for all data rate. The average measurements are used to determine which data rate is to be fully tested for each supported mode. Using a peak detector, the power is then measured for the applicable data rates.

Measurement Results

See Attached

Initial average power measurements

Band	Frequency (MHz)	CH	Average power (dBm) for 802.11b in 2.4GHz Data Rates			
			1 Mbps	2 Mbps	5.5 Mbps	11 Mbps
WLAN (WIFI)	2412	1	14.51	14.23	15.51	15.78
	2437	6	14.3	14.42	15.28	15.52
	2462	11	14.8	14.84	15.79	15.97

Band	Frequency (MHz)	CH	Average power (dBm) for 802.11g in 2.4GHz Data Rates							
			6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
WLAN (WIFI)	2412	1	12.01	12.11	12.1	12.32	12.59	12.29	13.04	12.56
	2437	6	12.41	12.43	12.42	12.17	12.86	12.52	12.99	12.74
	2462	11	12.36	12.39	12.39	12.14	12.85	12.87	13.32	12.72

Band	Frequency (MHz)	CH	Average power (dBm) for 802.11n in 2.4GHz							
			20MHz BW, 400ns GI Data Rates							
			7.2 Mbps	14.4 Mbps	21.7 Mbps	28.9 Mbps	43.3 Mbps	57.8 Mbps	65 Mbps	72.2 Mbps
WLAN (WIFI)	2412	1	10.81	10.48	10.66	10.87	10.8	10.83	10.94	10.95
	2437	6	11.21	11.79	10.84	11.2	10.89	10.78	11.1	10.96
	2462	11	11.25	11.29	11.31	11.68	11.95	11.56	11.95	11.65

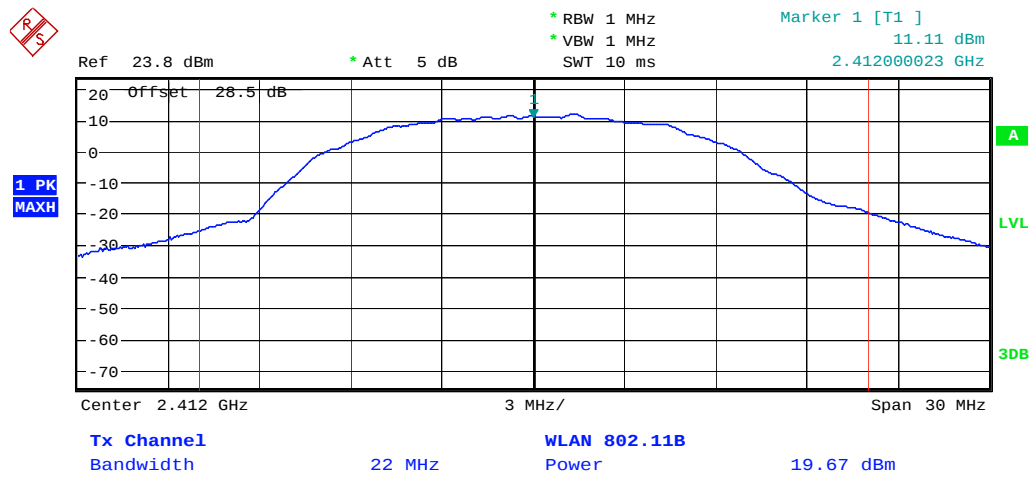
Band	Frequency (MHz)	CH	Average power (dBm) for 802.11n in 2.4GHz							
			20MHz BW, 800ns GI Data Rates							
			6.5 Mbps	13 Mbps	19.5 Mbps	26 Mbps	39 Mbps	52 Mbps	58.5 Mbps	65 Mbps
WLAN (WIFI)	2412	1	10.8	10.54	10.88	11.16	10.99	11.12	11.42	11.16
	2437	6	10.66	10.62	10.57	11.4	11.22	11.36	11.4	11.21
	2462	11	11.12	11.07	11.2	11.34	11.56	11.55	11.91	11.48

Band	Frequency (MHz)	CH	Average power (dBm) for 802.11n in 2.4GHz							
			40MHz BW, 400ns GI Data Rates							
			15 Mbps	30 Mbps	45 Mbps	60 Mbps	90 Mbps	120 Mbps	135 Mbps	150 Mbps
WLAN (WIFI)	2422	3	8.02	7.82	7.75	7.87	7.48	7.41	7.07	7.19
	2437	6	8.09	7.91	7.86	7.96	7.38	7.38	7.25	7.23
	2462	11	8.01	7.87	7.78	7.84	7.49	7.29	7.42	7.19

Band	Frequency (MHz)	CH	Average power (dBm) for 802.11n in 2.4GHz							
			40MHz BW, 800ns GI Data Rates							
			13.5 Mbps	27 Mbps	40.5 Mbps	54 Mbps	81 Mbps	108 Mbps	121.5 Mbps	135 Mbps
WLAN (WIFI)	2422	3	9.45	9.2	9.18	9.33	9.54	8.98	7.07	7.15
	2437	6	9.69	9.35	9.22	9.44	9.39	8.87	7.31	7.09
	2462	11	9.59	9.27	9.2	9.36	9.32	8.78	7.41	7.4

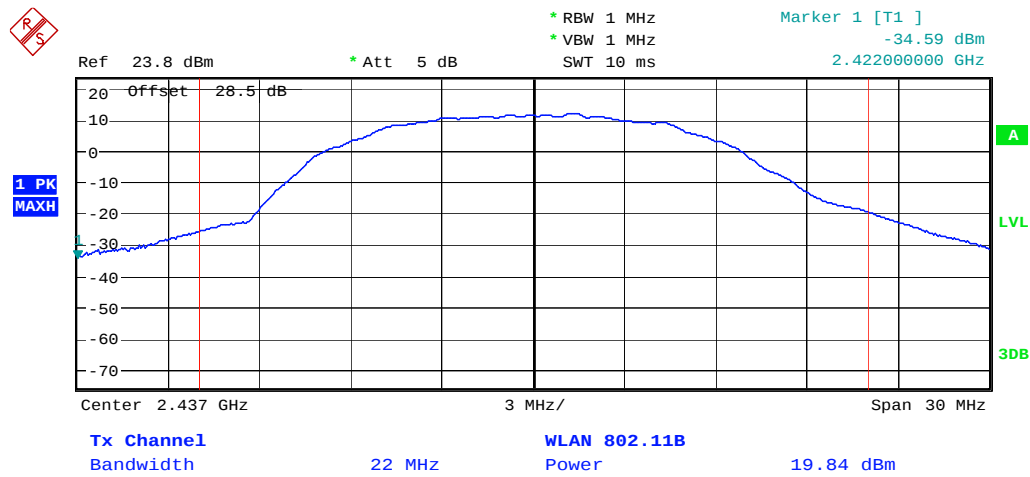
Based on these initial measurements, it was determined that testing will be performed in the 11Mbps data for the 802.11b mode, the 48Mbps data rate for the 802.11g mode, the 65Mbps data rate for 802.11n 400ns GI mode, the 13.5 Mbps data rate for 802.11n 400ns GI mode Plots showing the peak power measurements for the applicable data rates follow.

802.11b Mode



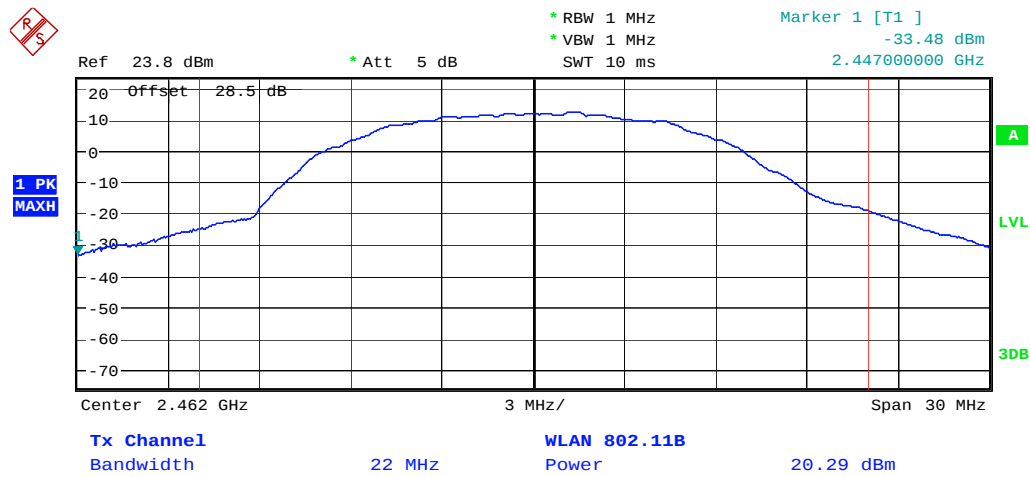
Date: 21.JAN.2011 14:27:07

Max. Power Channel 1 @ 11Mbps



Date: 21.JAN.2011 14:40:46

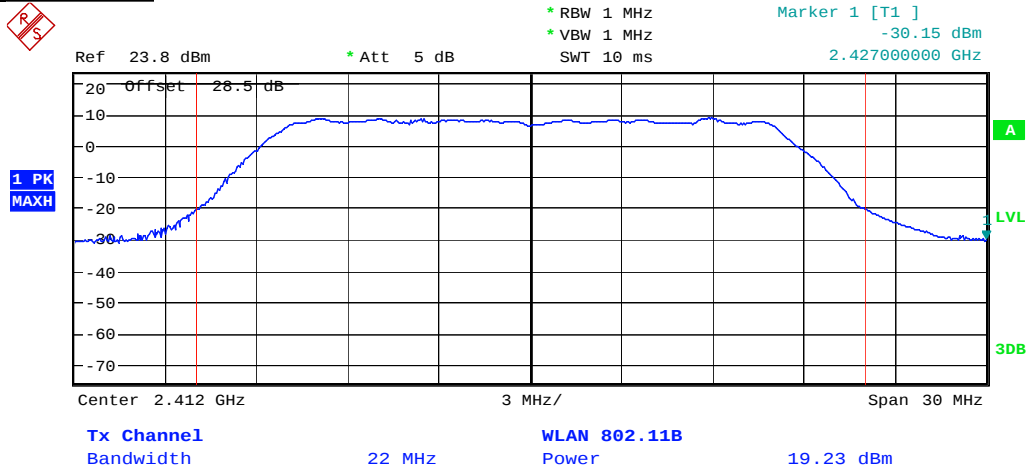
Max. Power Channel 6 @ 11Mbps



Date: 21.JAN.2011 14:47:58

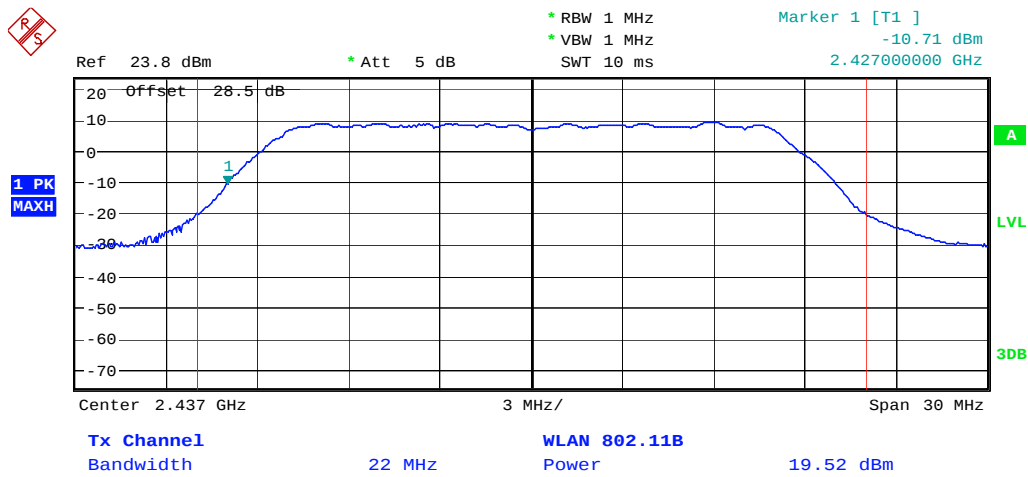
Max. Power Channel 11 @ 11Mbps

802.11 g Mode



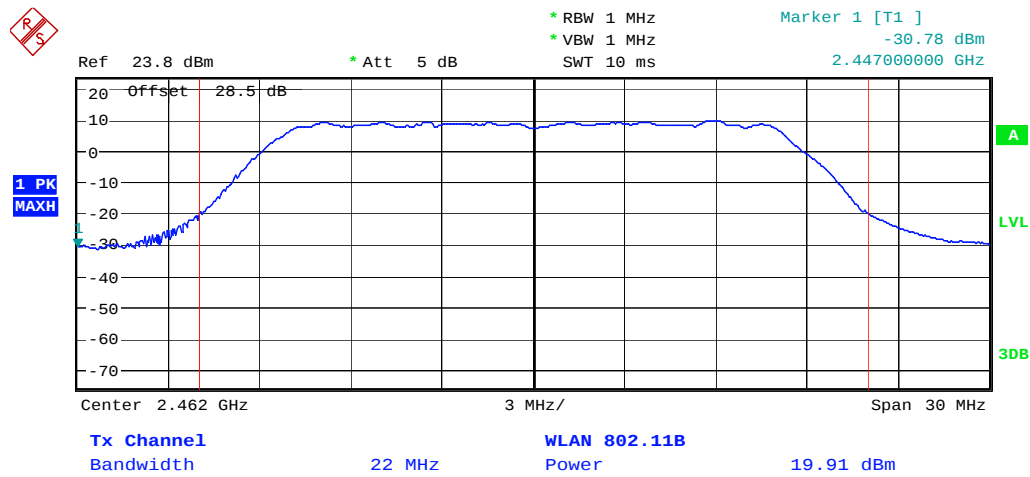
Date: 21.JAN.2011 14:57:50

Max. Power Channel 1 @ 48Mbps



Date: 21.JAN.2011 15:05:42

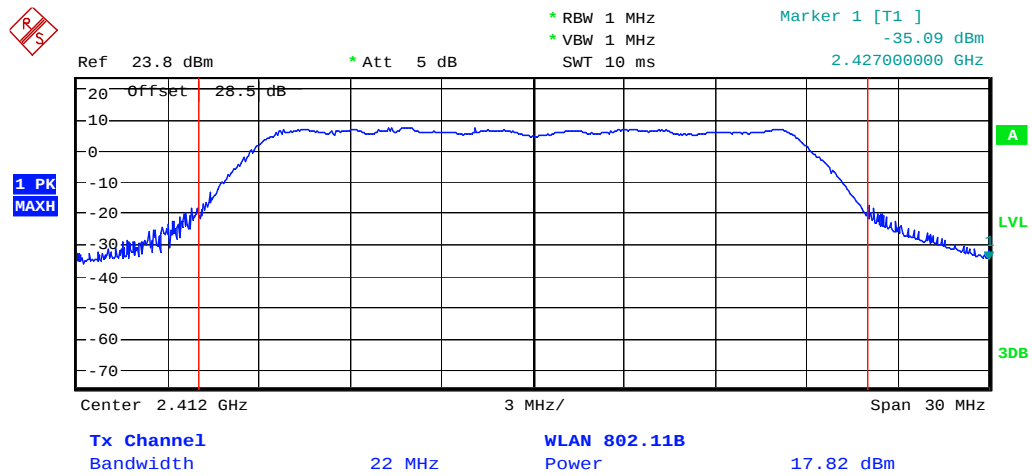
Max. Power Channel 6 @ 48Mbps



Date: 21.JAN.2011 15:16:09

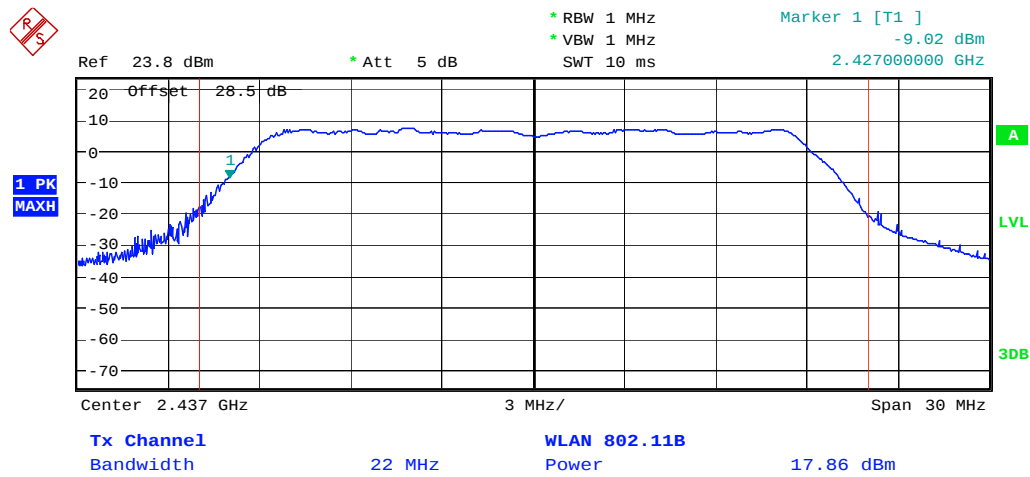
Max. Power Channel 11 @ 48Mbps

802.11n Mode



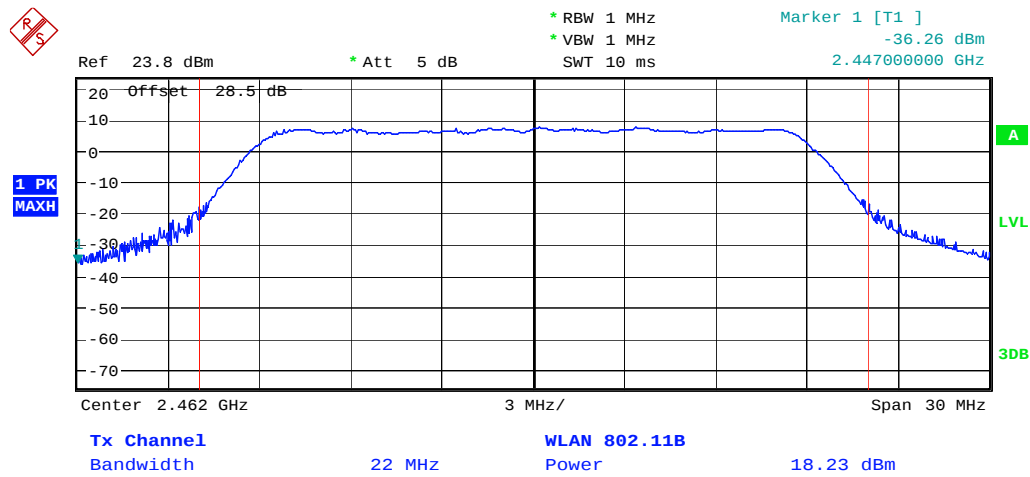
Date: 21.JAN.2011 16:14:49

Max. Power Channel 1 @ 65Mbps



Date: 21.JAN.2011 16:21:59

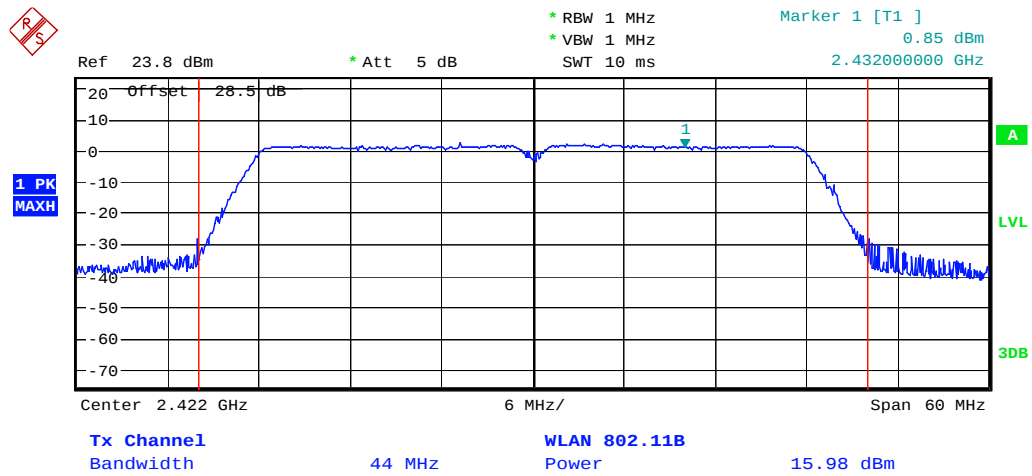
Max. Power Channel 6 @ 65Mbps



Date: 21.JAN.2011 16:44:56

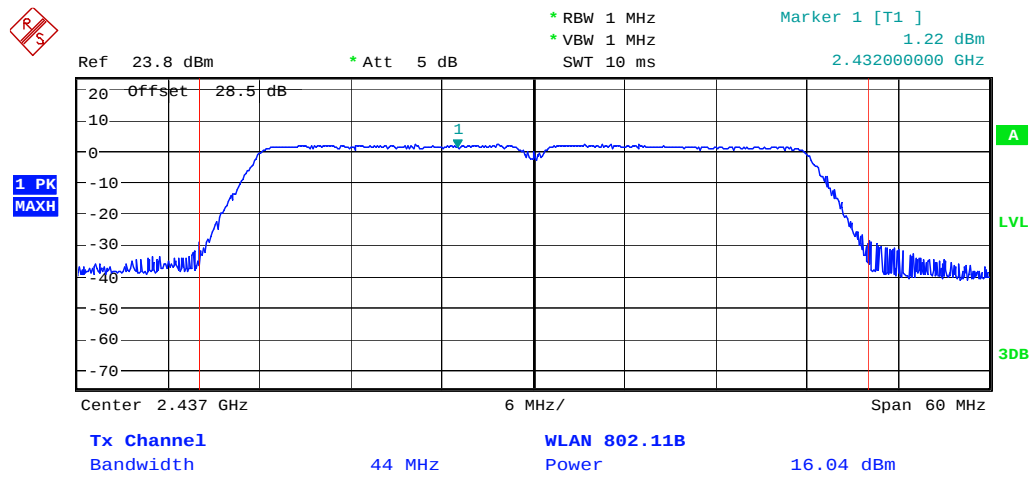
Max. Power Channel 11 @ 65Mbps

802.11n Mode 40M BW



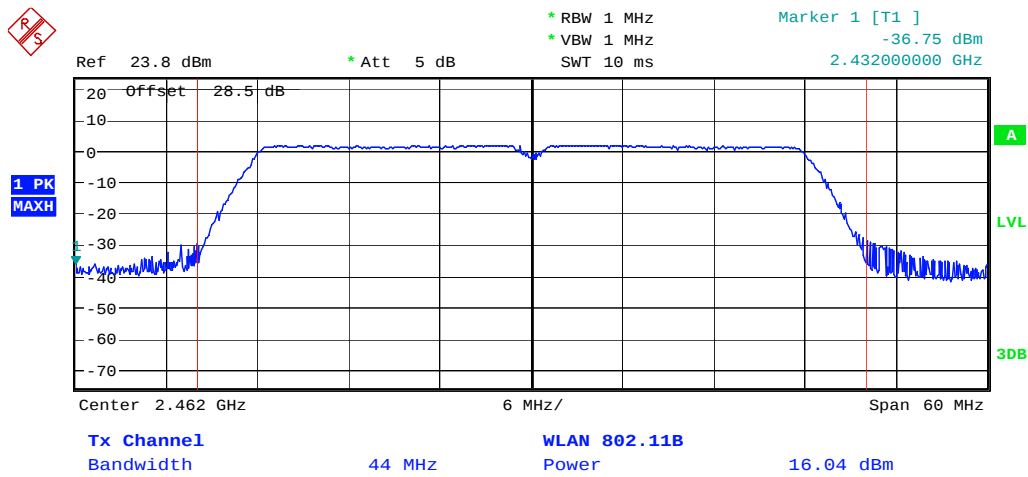
Date: 27.JAN.2011 14:33:57

Max. Power Channel 1 @ 13.5Mbps



Date: 27.JAN.2011 14:40:37

Max. Power Channel 6 @ 13.5Mbps



Date: 27.JAN.2011 14:32:41

Max. Power Channel 11 @ 13.5Mbps

Power Spectral Density

CFR 47 Part 15.247 (d)

Measurement Procedure

The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 20dB passive attenuator. A fully charged battery was used for the supply voltage.

The WLAN DSSS function of the EUT was enabled. The spectrum analyzer used the following settings:

Span = 300kHz

VBW =30kHz

RBW=3kHz

Sweep = 50ms

Detector function = peak

Trace = max hold

The trace was allowed to stabilize. The EUT was transmitting at its maximum data rate.

Measurement Results

2412 MHz	2437MHz	2462MHz
-10.07	-9.91	-8.93

802.11 b @ 11Mbps

2412 MHz	2437MHz	2462MHz
-12.19	-11.98	-11.90

802.11 g @ 48Mbps

2412 MHz	2437MHz	2462MHz
-17.85	-16.67	-17.93

802.11 n 400ns GI @ 65Mbps

2412 MHz	2437MHz	2462MHz
-17.66	-17.76	-17.10

802.11 n 800ns GI 40M BW @ 13.5Mbps

SPURIOUS RF CONDUCTED EMISSIONS

CFR 47 Part 15.247

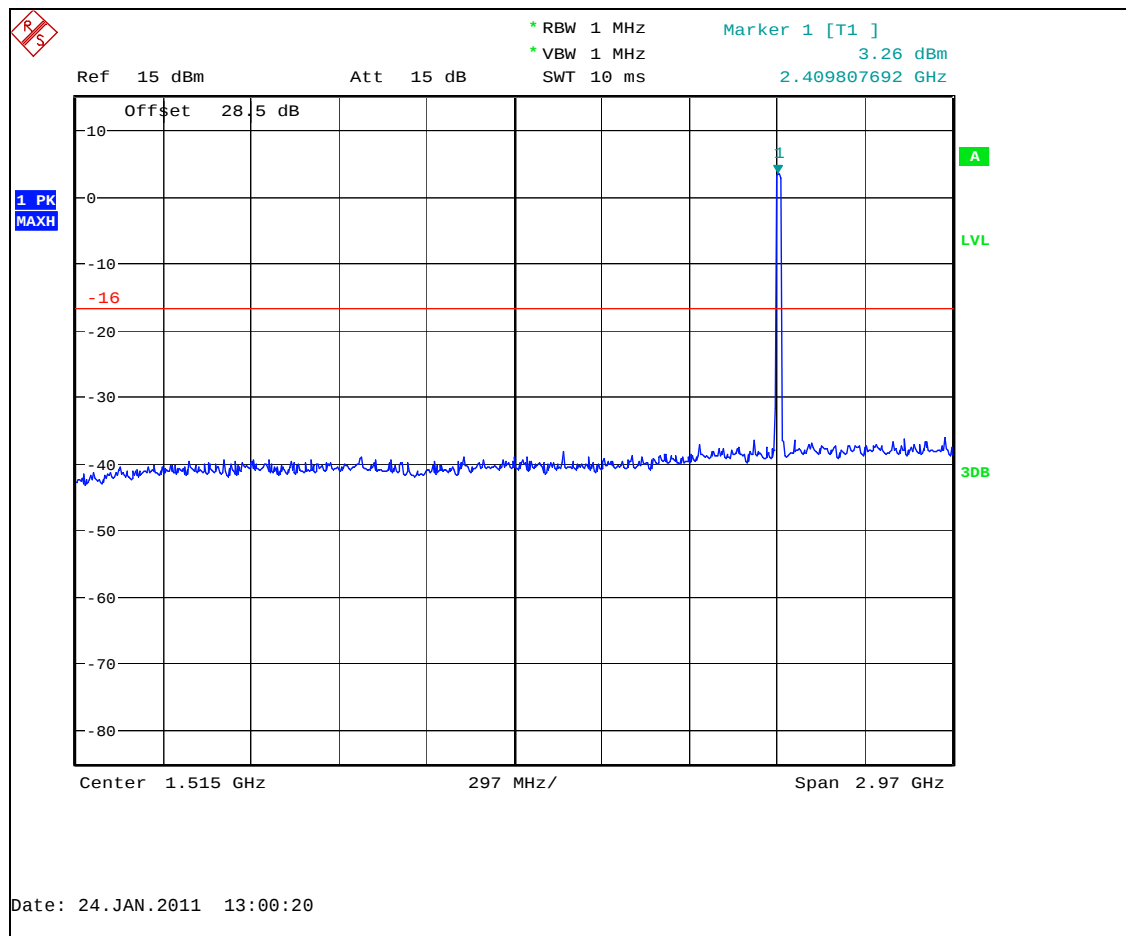
Measurement Procedure

The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 20dB passive attenuator. A fully charged battery was used for the supply voltage.

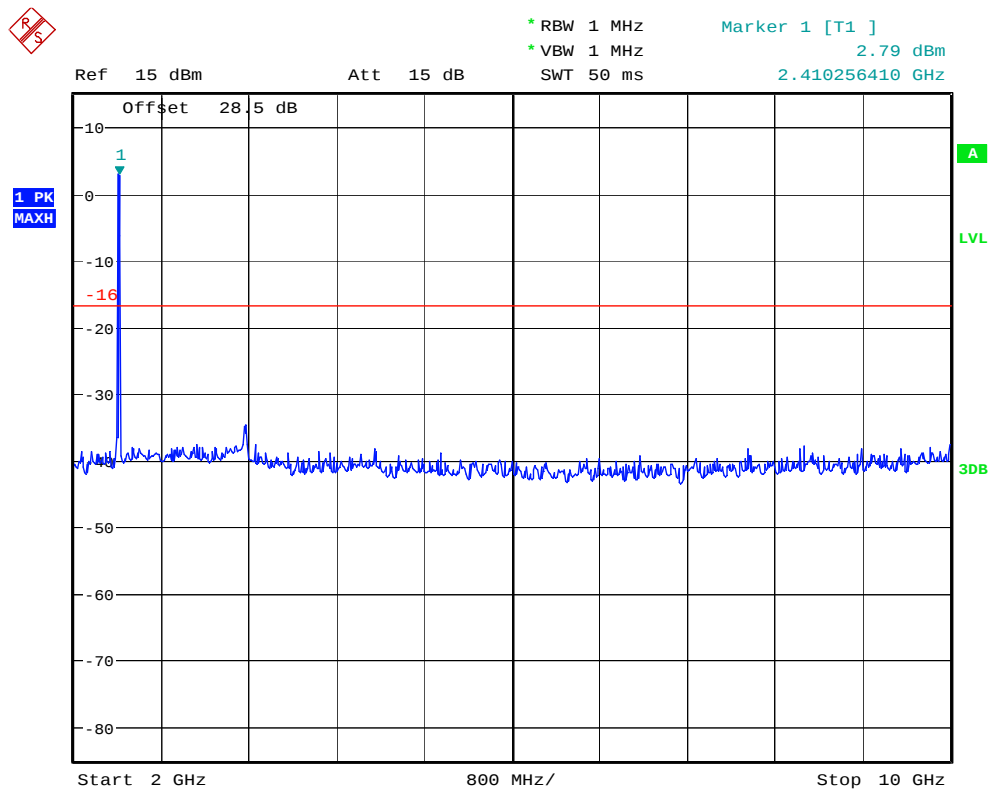
Measurement Results

See attached:

802.11 b @ 11Mbps

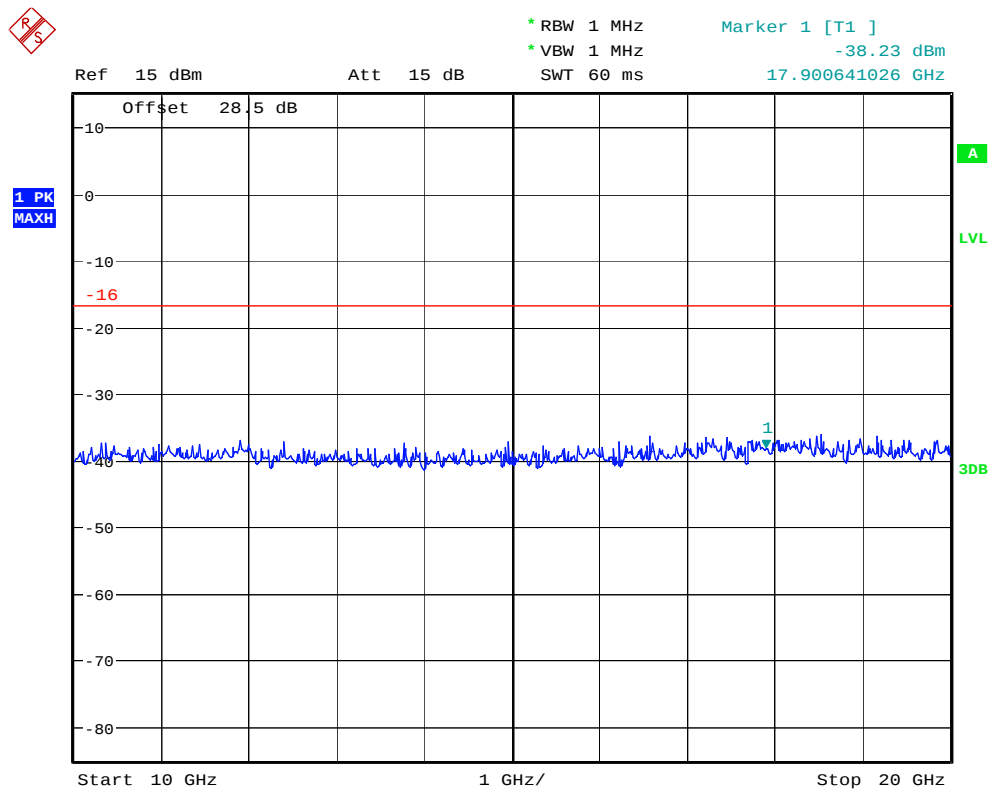


Conducted Spurious Emissions 30-3000MHz (Low Channel)



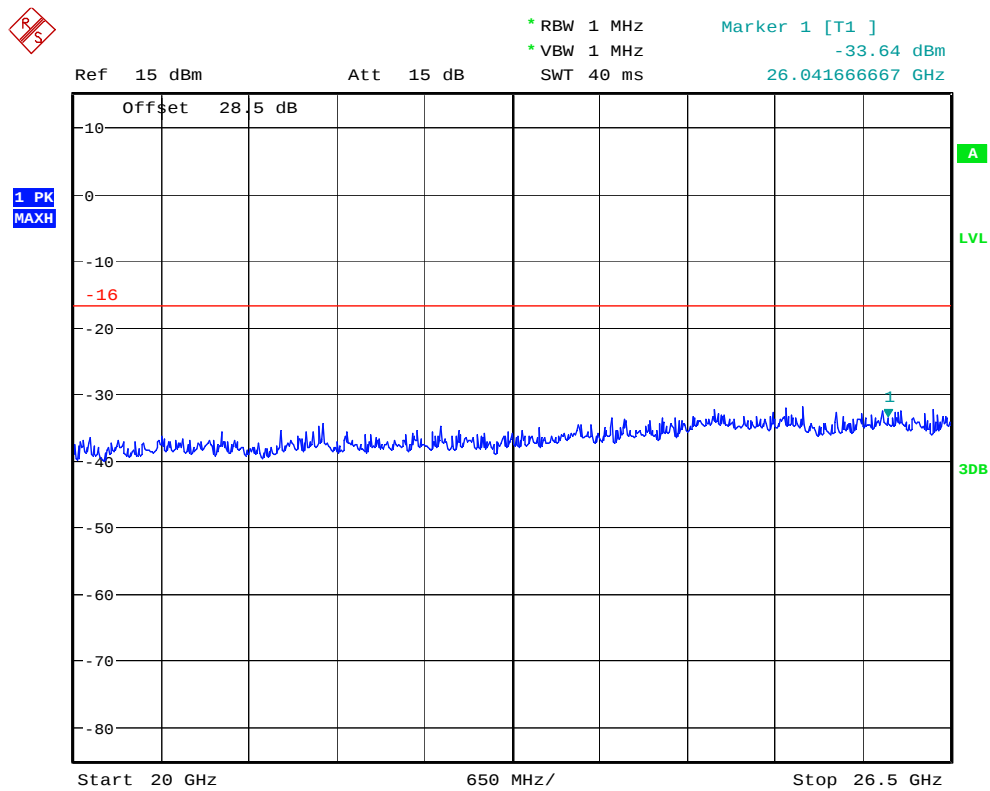
Date: 24.JAN.2011 13:01:00

Conducted Spurious Emissions 2-10GHz (Low Channel)



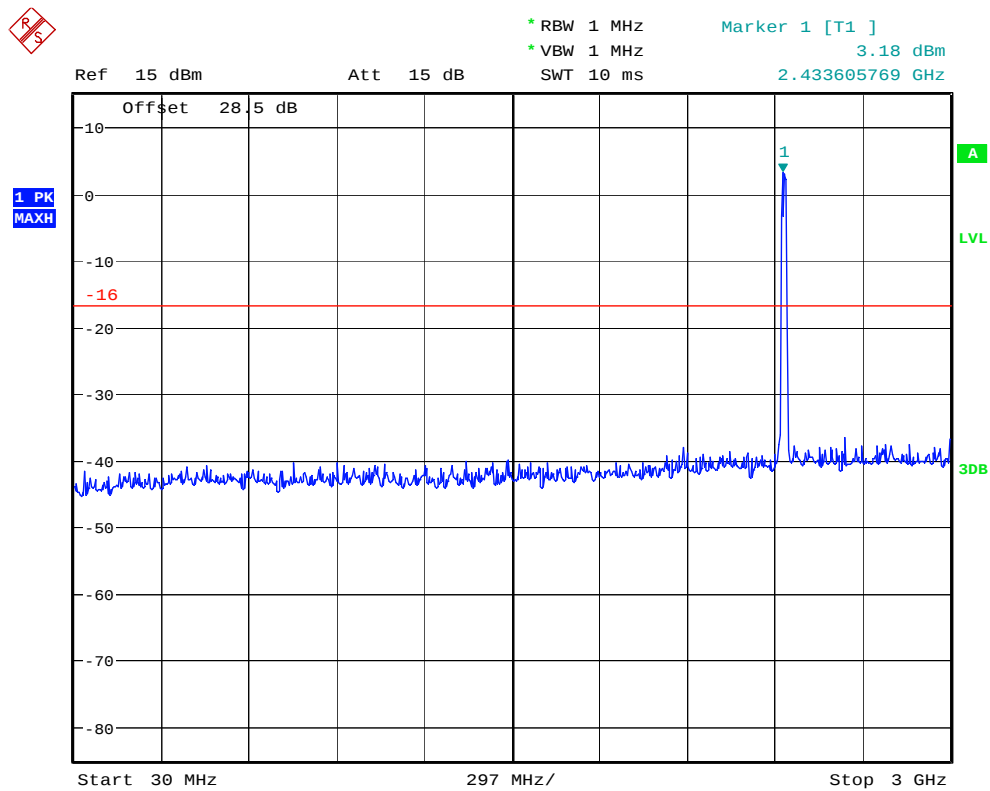
Date: 24.JAN.2011 13:01:23

Conducted Spurious Emissions 10-20GHz (Low Channel)



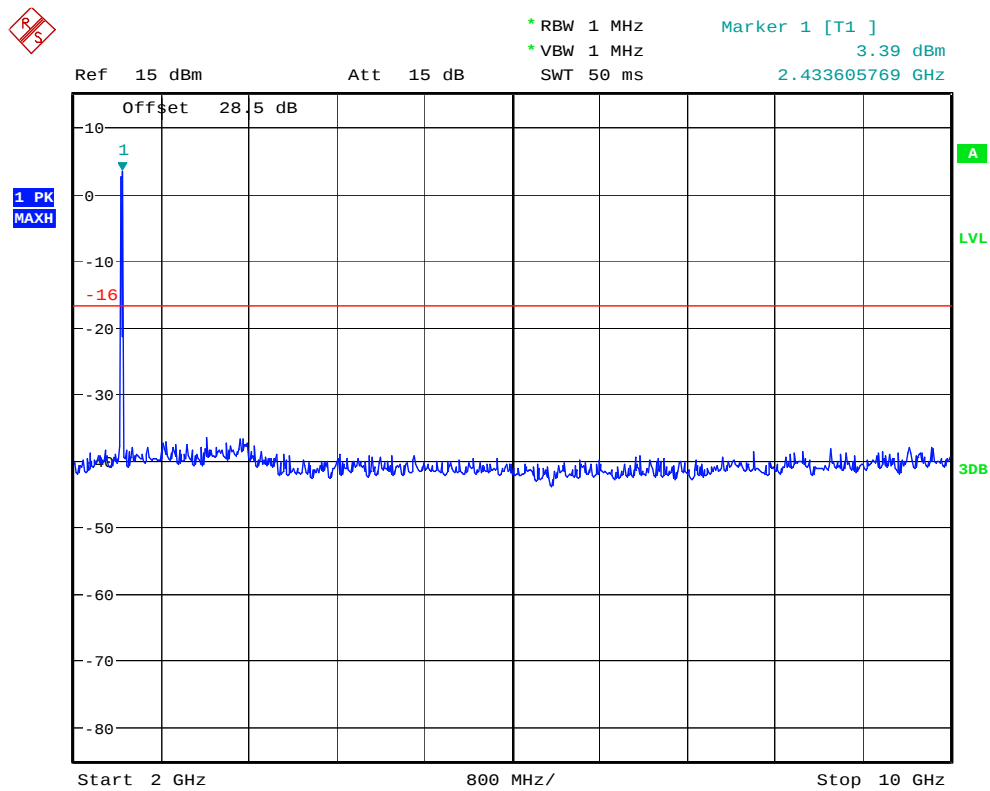
Date: 24.JAN.2011 13:01:46

Conducted Spurious Emissions 20-26.5GHz (Low Channel)



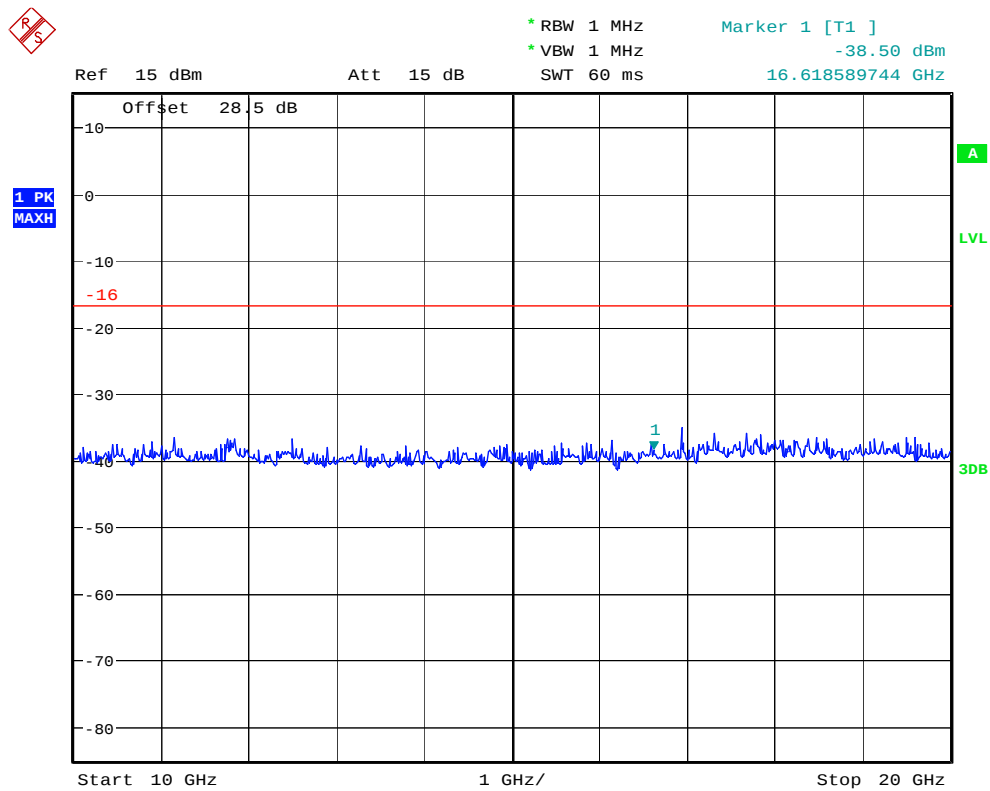
Date: 24.JAN.2011 13:02:24

Conducted Spurious Emissions 30-3000MHz (Mid Channel)



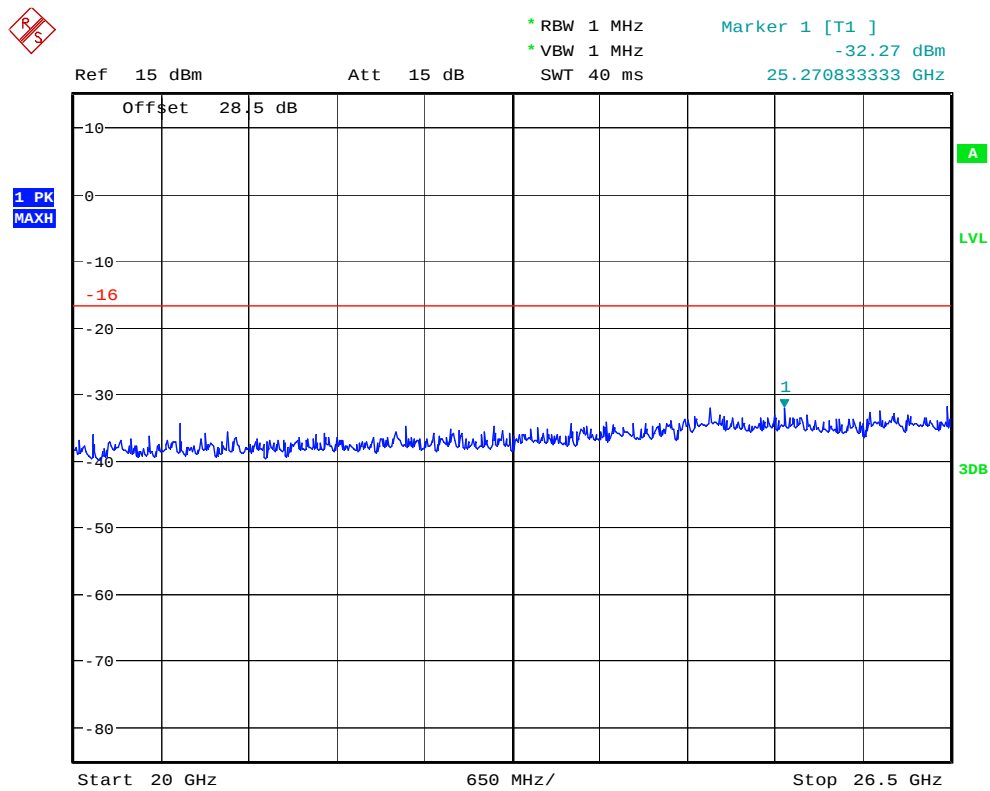
Date: 24.JAN.2011 13:02:47

Conducted Spurious Emissions 2-10GHz (Mid Channel)



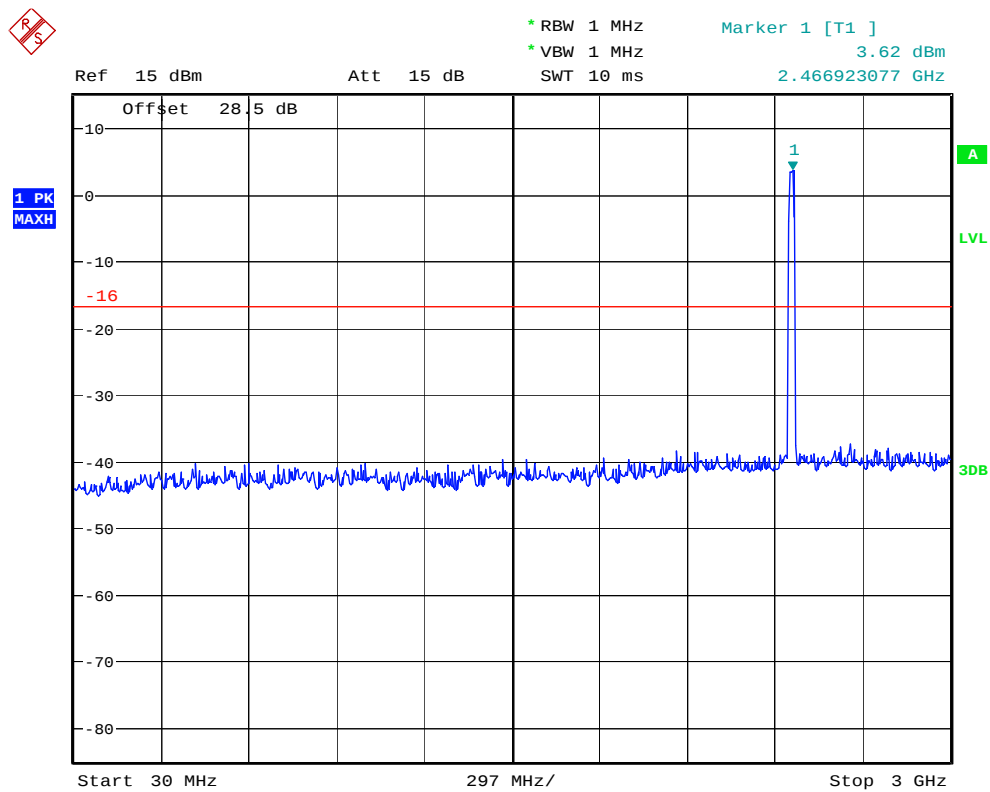
Date: 24.JAN.2011 13:03:09

Conducted Spurious Emissions 10-20GHz (Mid Channel)



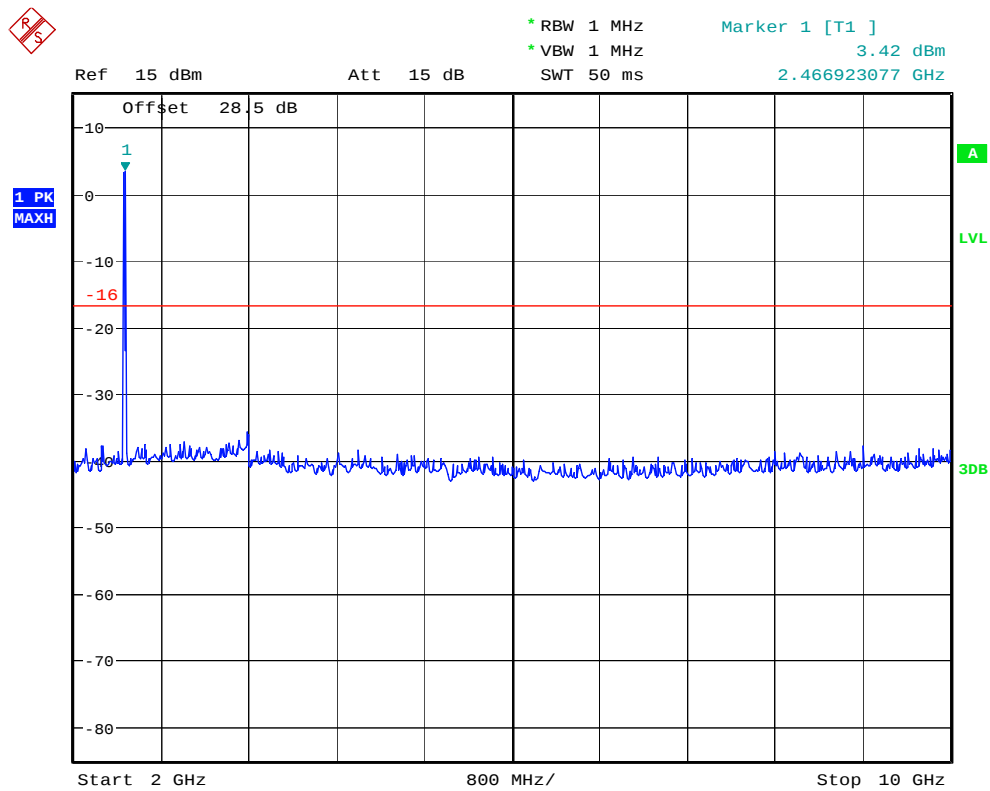
Date: 24.JAN.2011 13:03:30

Conducted Spurious Emissions 20-26.5GHz (Mid Channel)



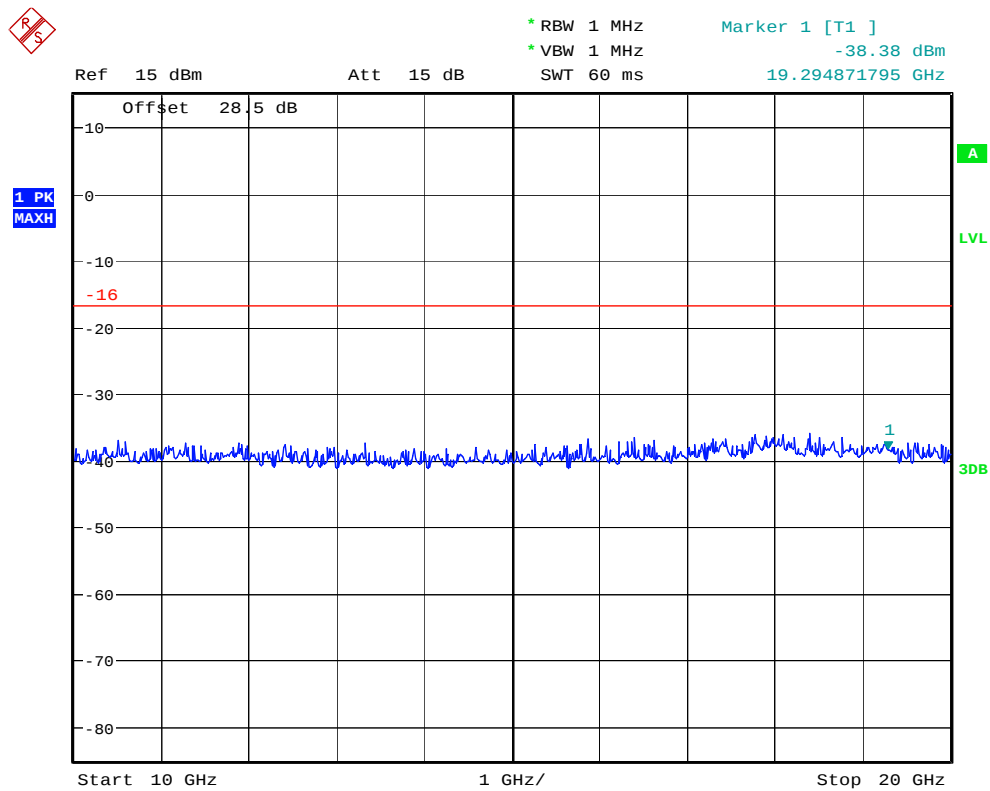
Date: 24.JAN.2011 13:04:43

Conducted Spurious Emissions 30-3000MHz (High Channel)



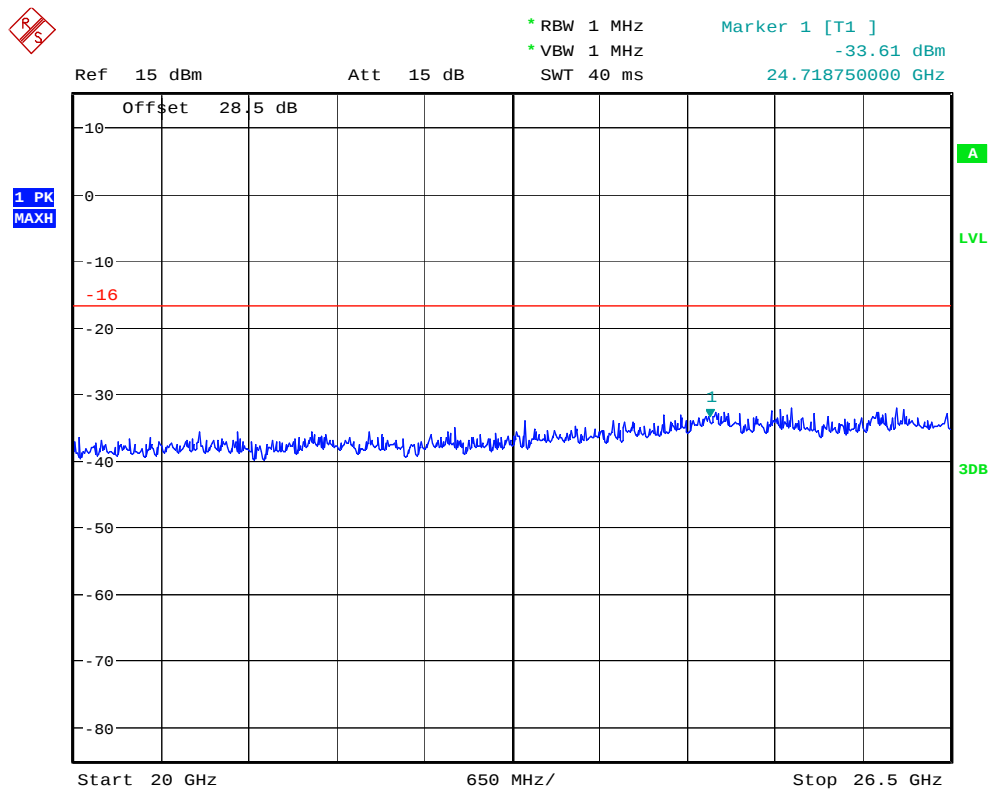
Date: 24.JAN.2011 13:05:06

Conducted Spurious Emissions 2-10GHz (High Channel)



Date: 24.JAN.2011 13:05:25

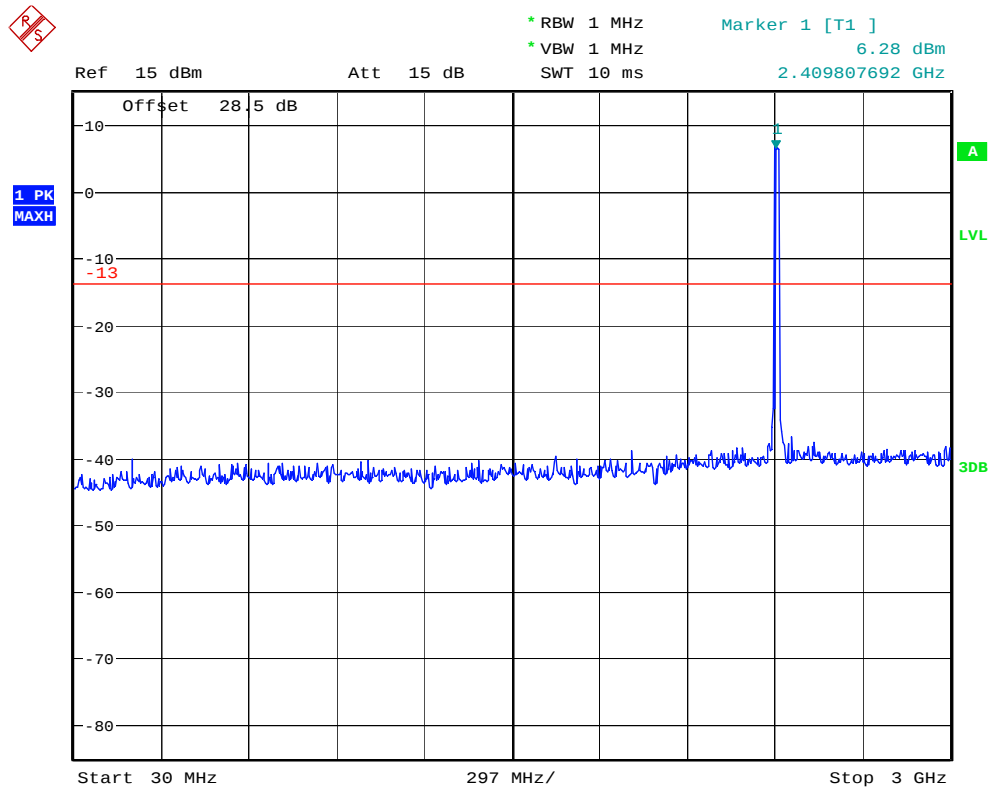
Conducted Spurious Emissions 10-20GHz (High Channel)



Date: 24.JAN.2011 13:05:45

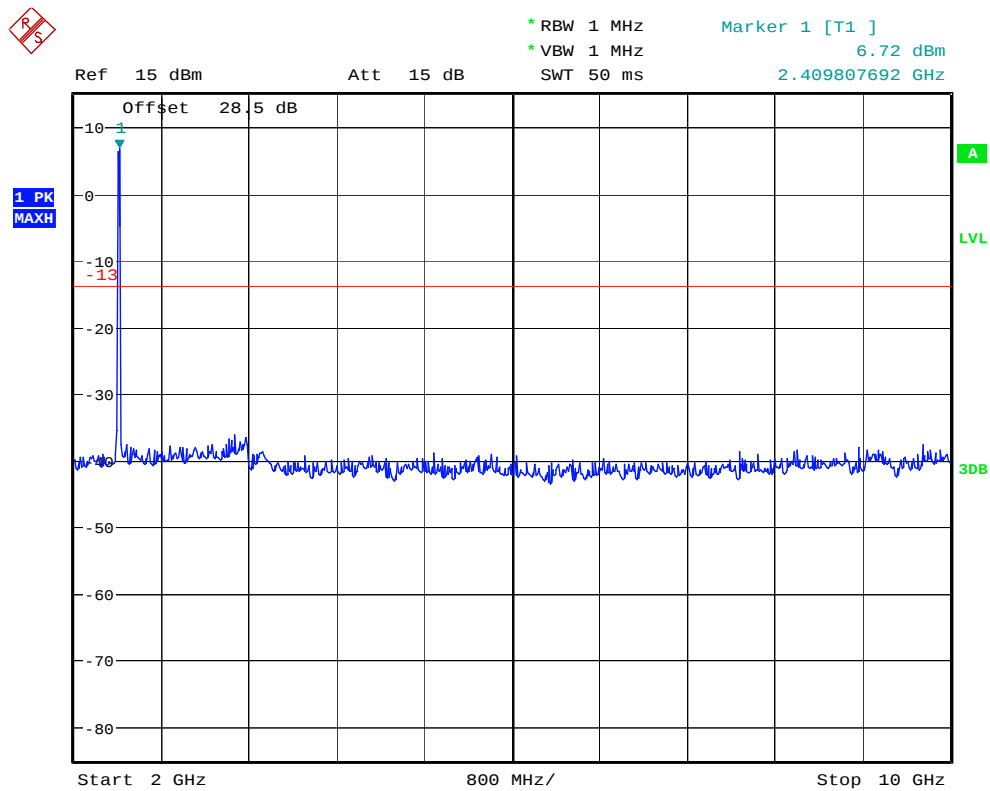
Conducted Spurious Emissions 20-26.5GHz (High Channel)

802.11 g @ 48Mbps



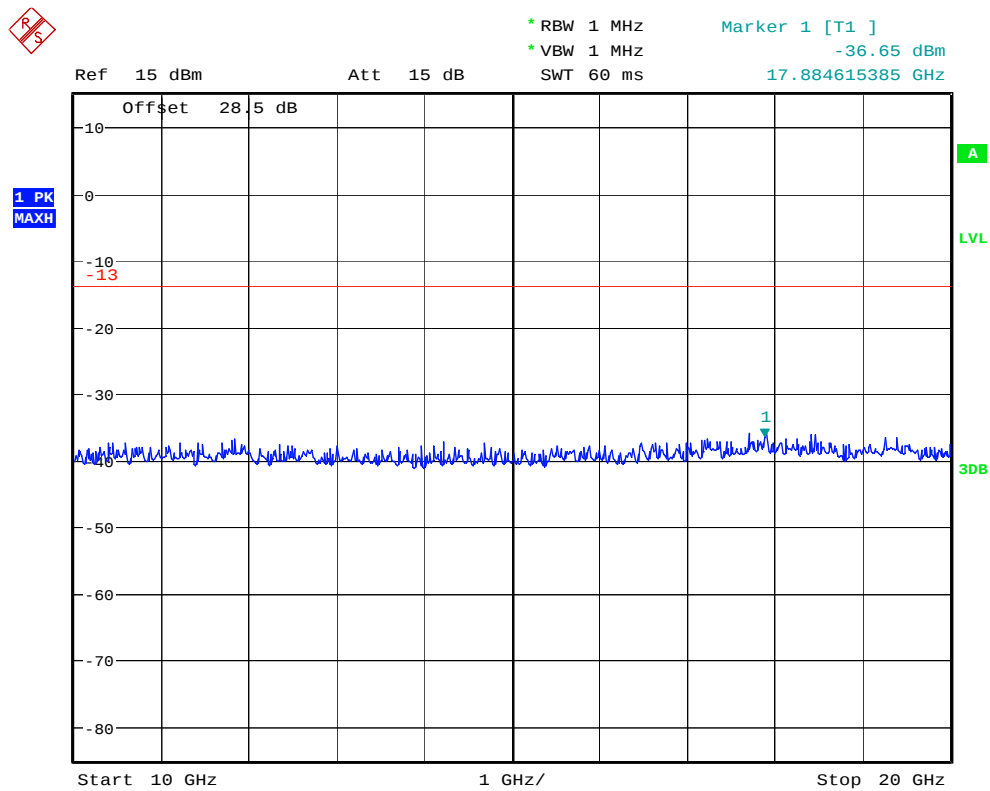
Date: 24.JAN.2011 13:07:42

Conducted Spurious Emissions 30-3000MHz (Low Channel)



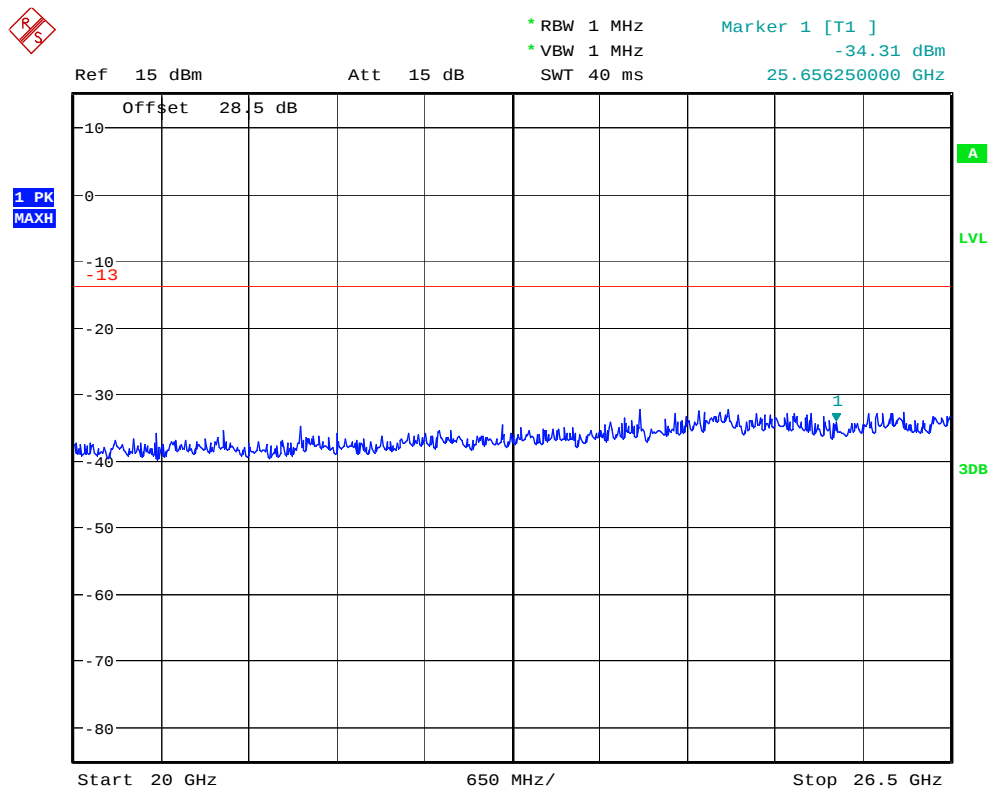
Date: 24.JAN.2011 13:09:01

Conducted Spurious Emissions 2-10GHz (Low Channel)



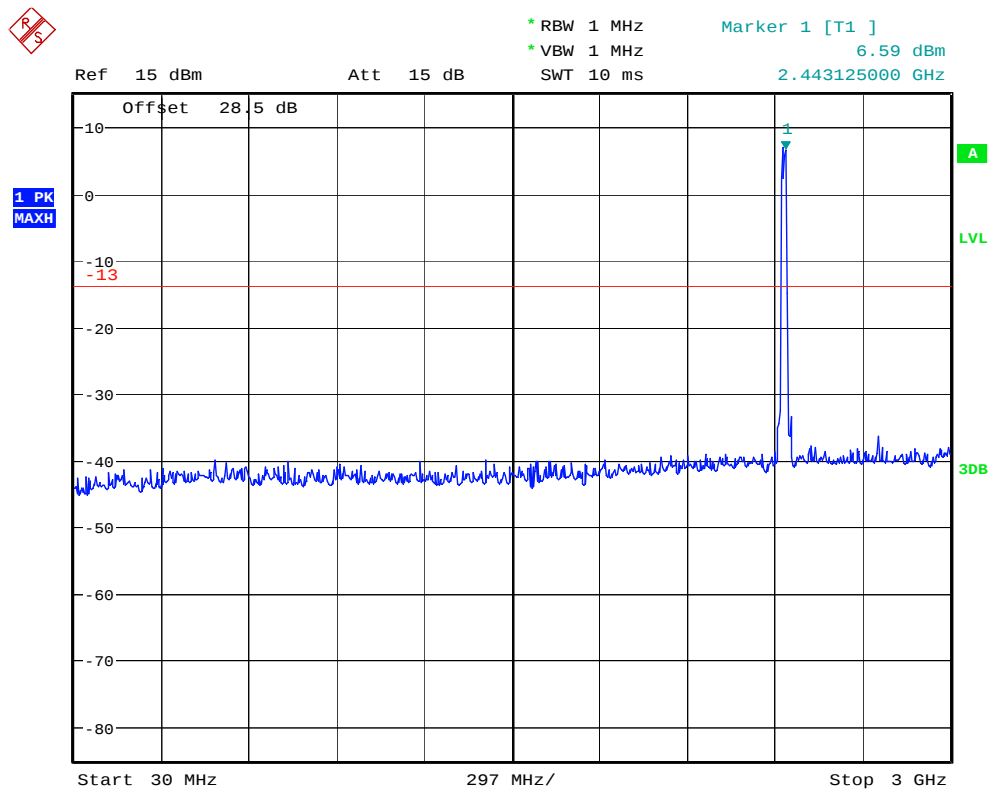
Date: 24.JAN.2011 13:09:26

Conducted Spurious Emissions 10-20GHz (Low Channel)



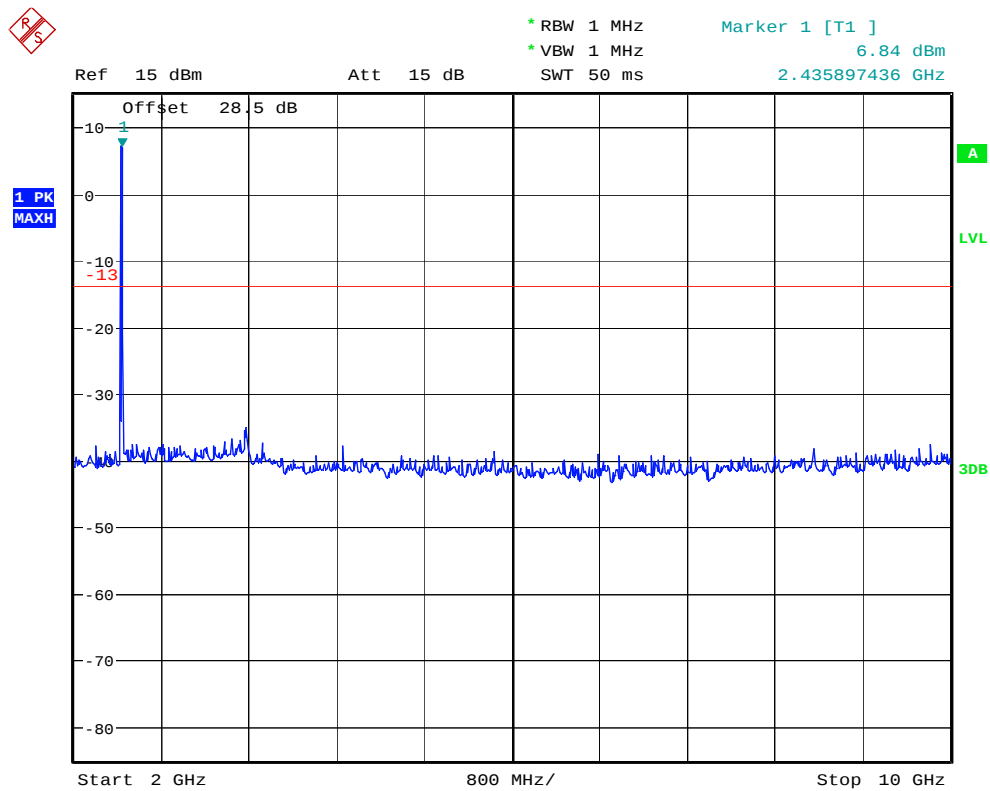
Date: 24.JAN.2011 13:09:45

Conducted Spurious Emissions 20-26.5GHz (Low Channel)



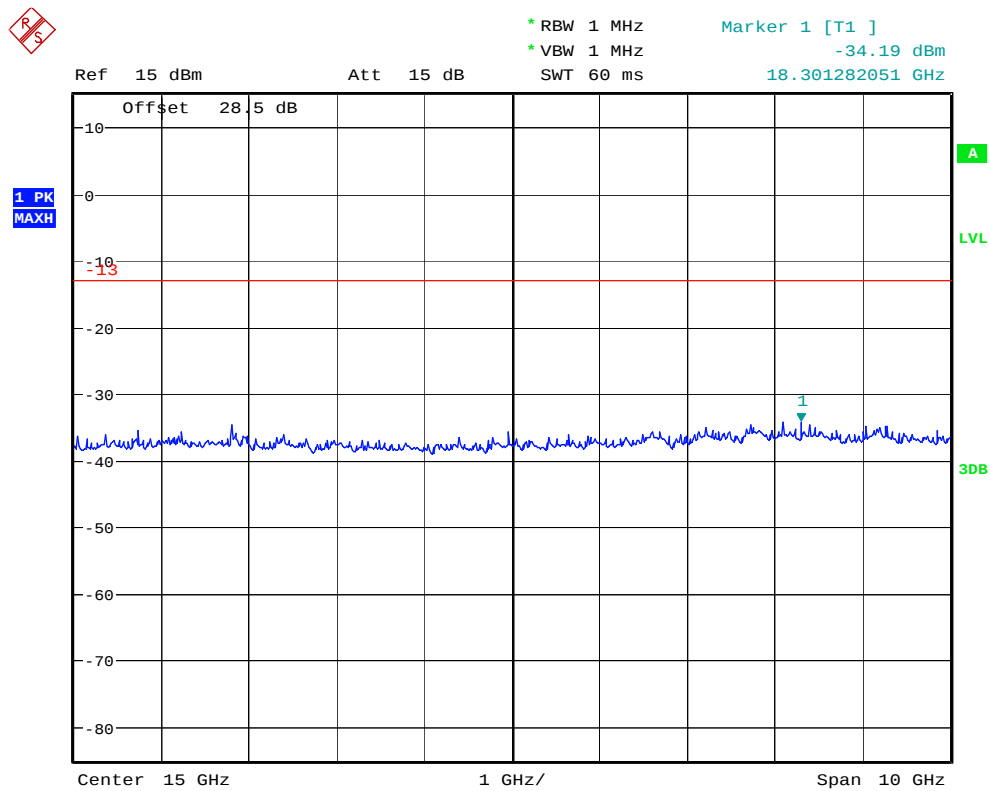
Date: 24.JAN.2011 13:11:38

Conducted Spurious Emissions 30-3000MHz (Mid Channel)



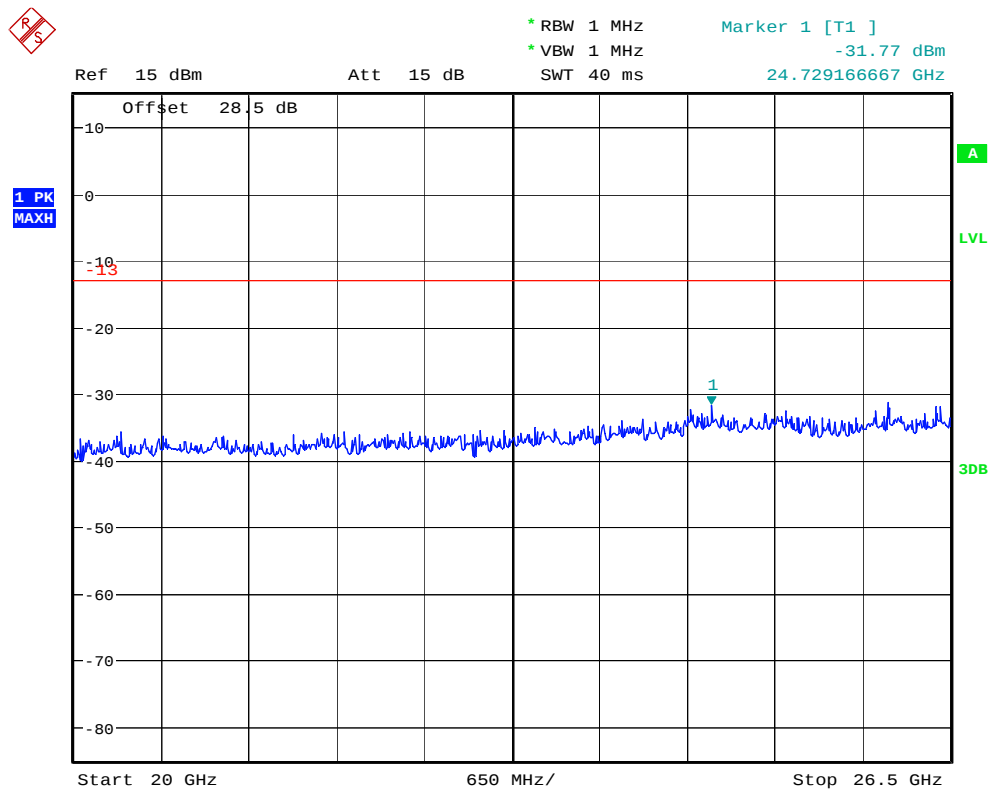
Date: 24.JAN.2011 13:11:56

Conducted Spurious Emissions 2-10GHz (Mid Channel)



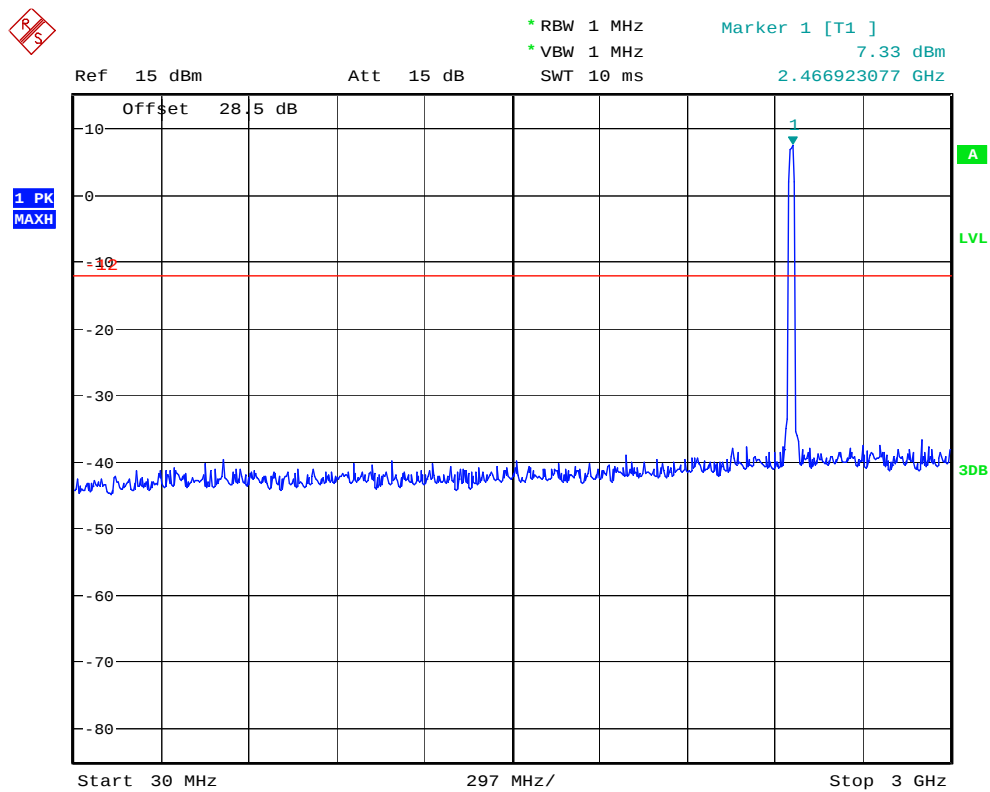
Date: 24.JAN.2011 13:12:53

Conducted Spurious Emissions 10-20GHz (Mid Channel)



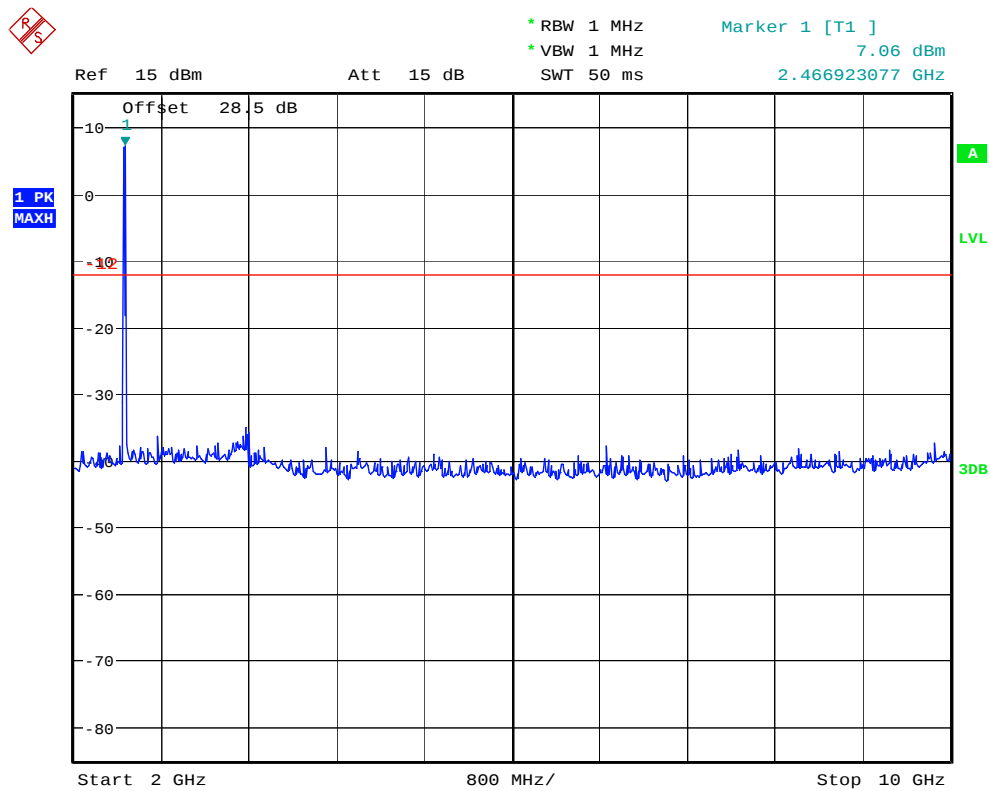
Date: 24.JAN.2011 13:13:16

Conducted Spurious Emissions 20-26.5GHz (Mid Channel)



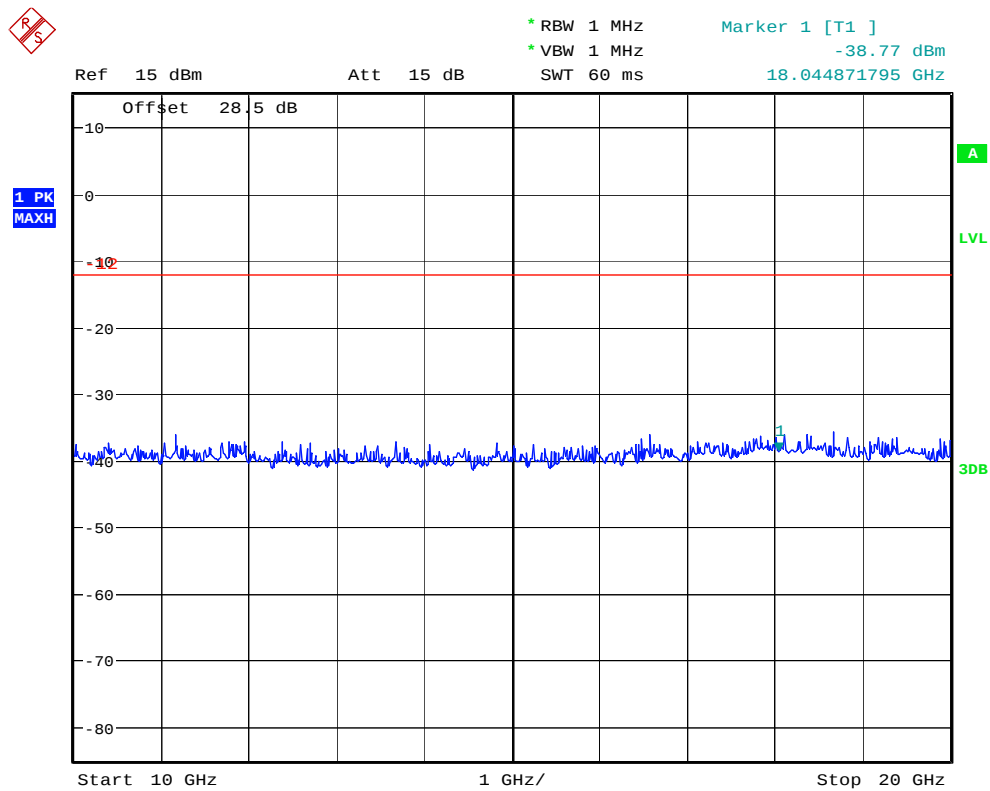
Date: 24.JAN.2011 13:14:57

Conducted Spurious Emissions 30-3000MHz (High Channel)



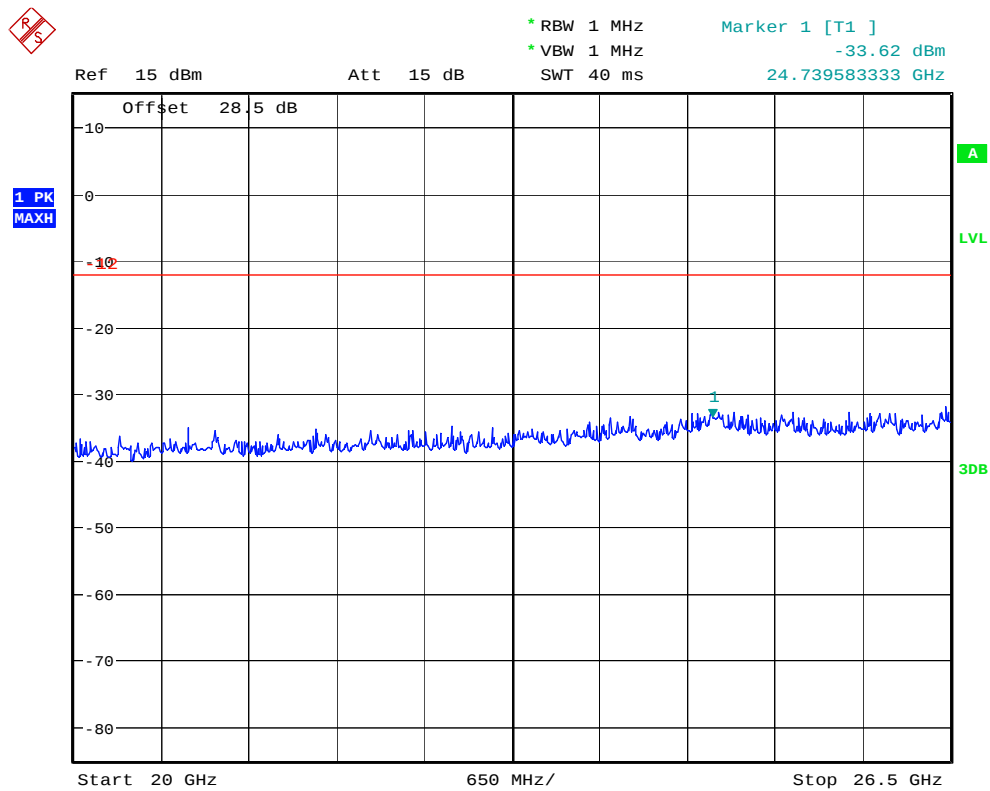
Date: 24.JAN.2011 13:15:23

Conducted Spurious Emissions 2-10GHz (High Channel)



Date: 24.JAN.2011 13:15:40

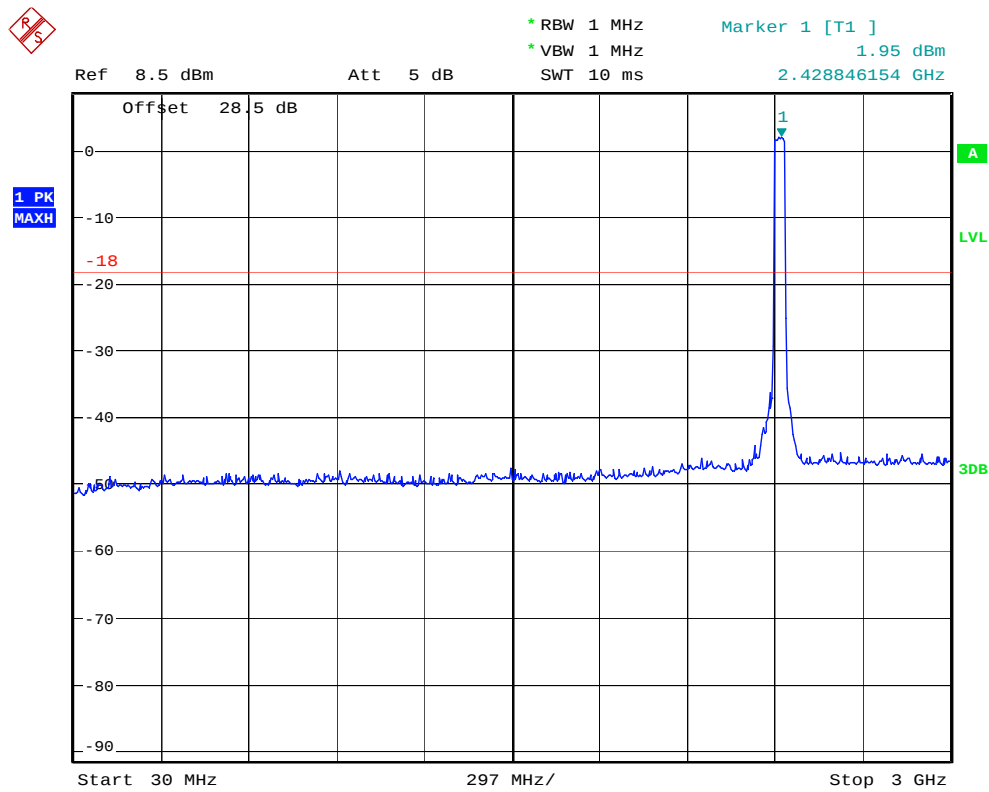
Conducted Spurious Emissions 10-20GHz (High Channel)



Date: 24.JAN.2011 13:15:59

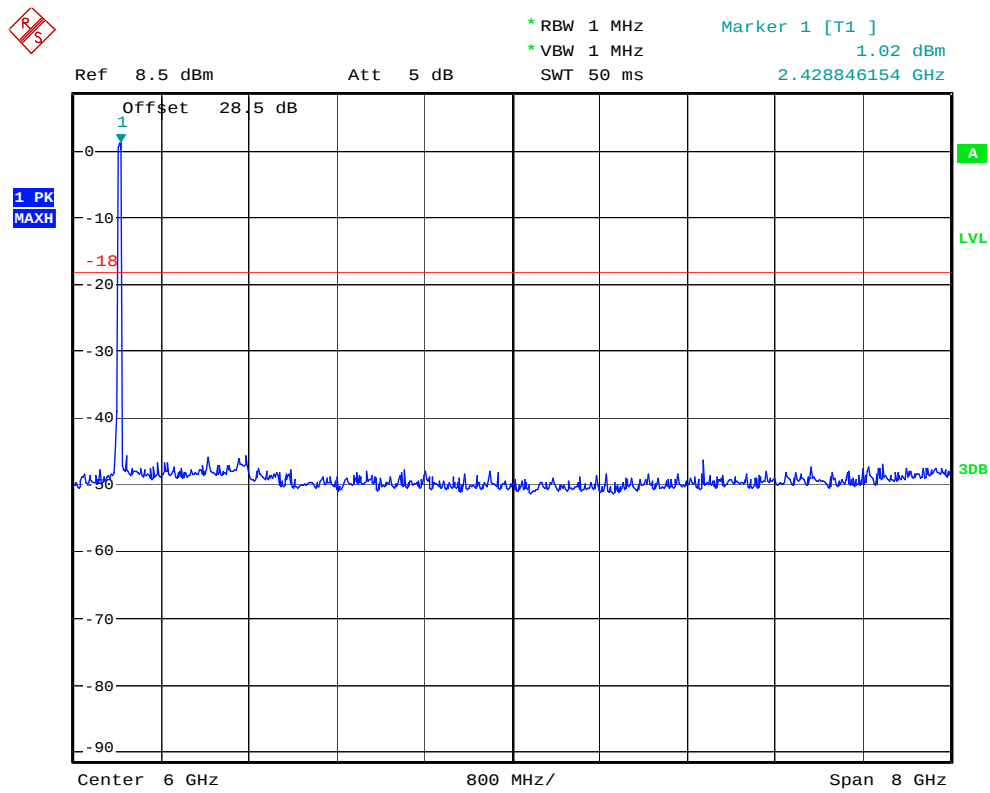
Conducted Spurious Emissions 20-26.5GHz (High Channel)

802.11 n 40 BW @ 13.5Mbps



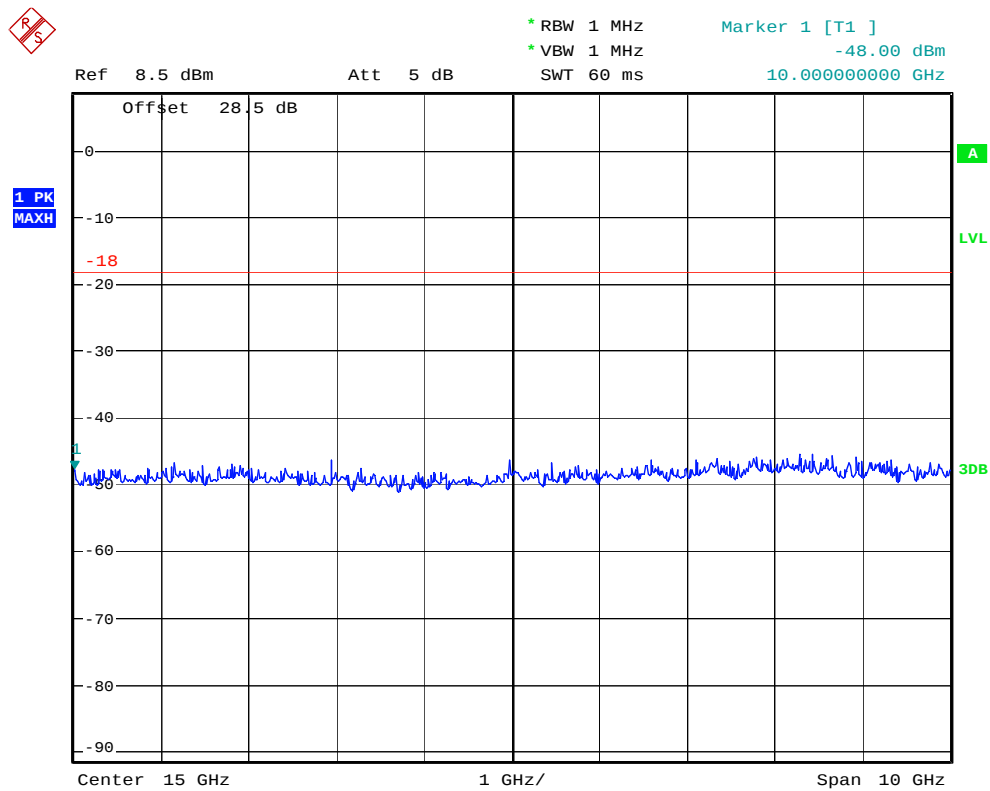
Date: 27.JAN.2011 14:03:27

Conducted Spurious Emissions 30-3000MHz (Low Channel)



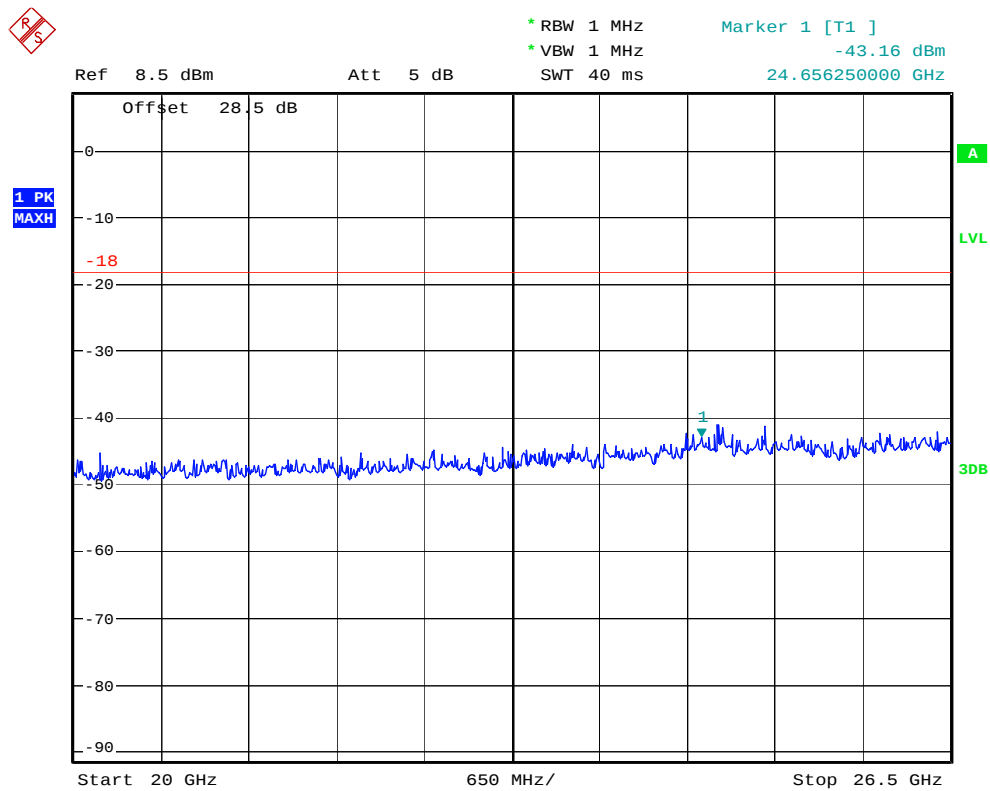
Date: 27.JAN.2011 14:04:14

Conducted Spurious Emissions 2-10GHz (Low Channel)



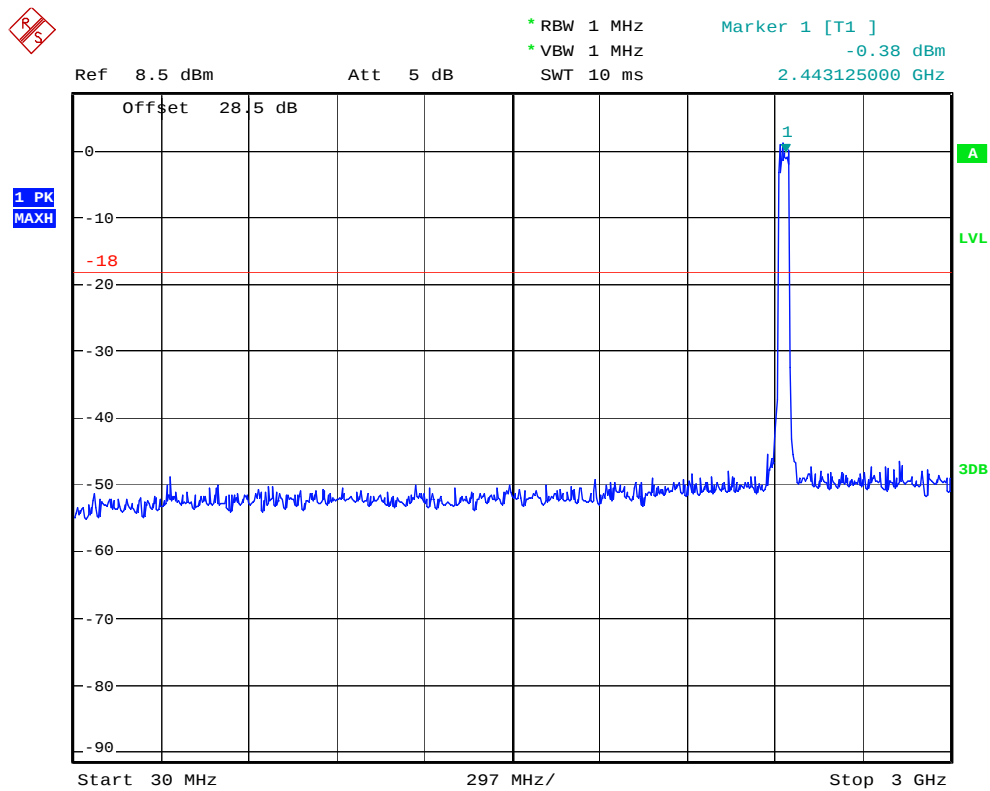
Date: 27.JAN.2011 14:05:08

Conducted Spurious Emissions 10-20GHz (Low Channel)



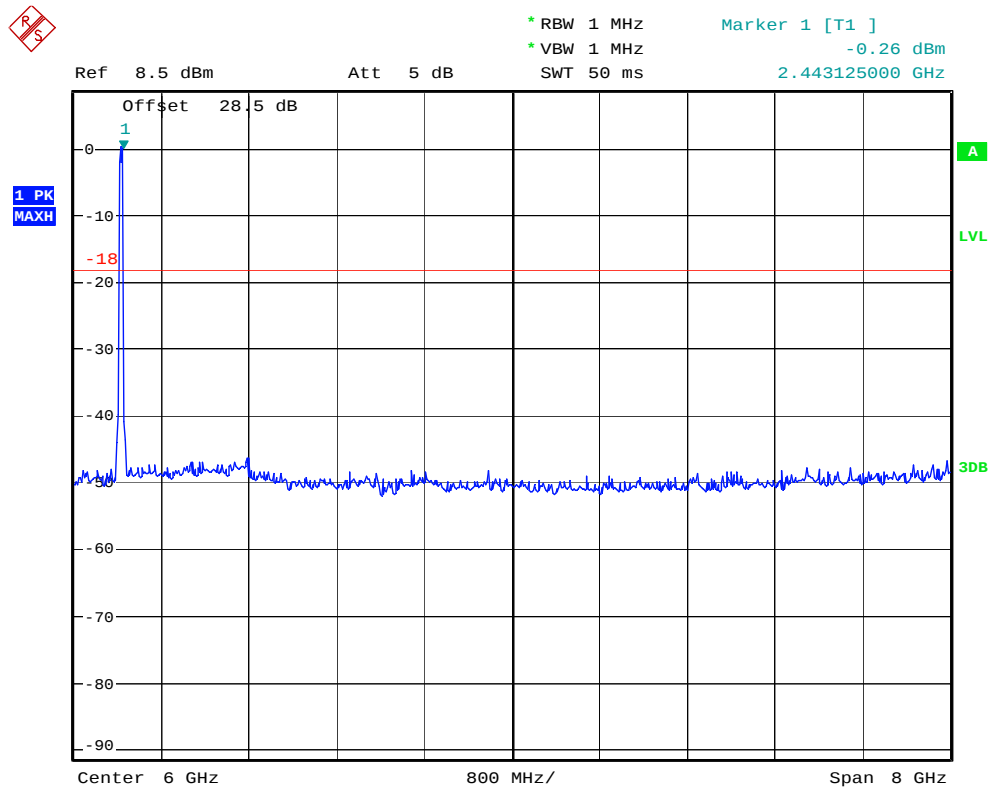
Date: 27.JAN.2011 14:05:39

Conducted Spurious Emissions 20-26.5GHz (Low Channel)



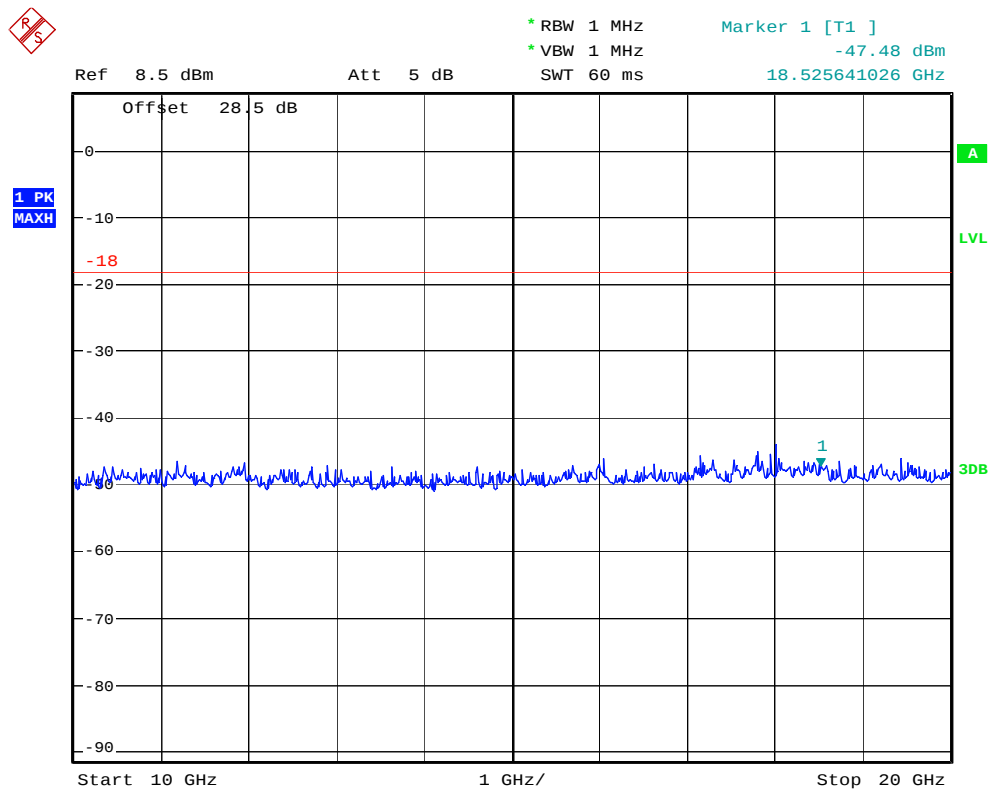
Date: 27.JAN.2011 14:06:15

Conducted Spurious Emissions 30-3000MHz (Mid Channel)



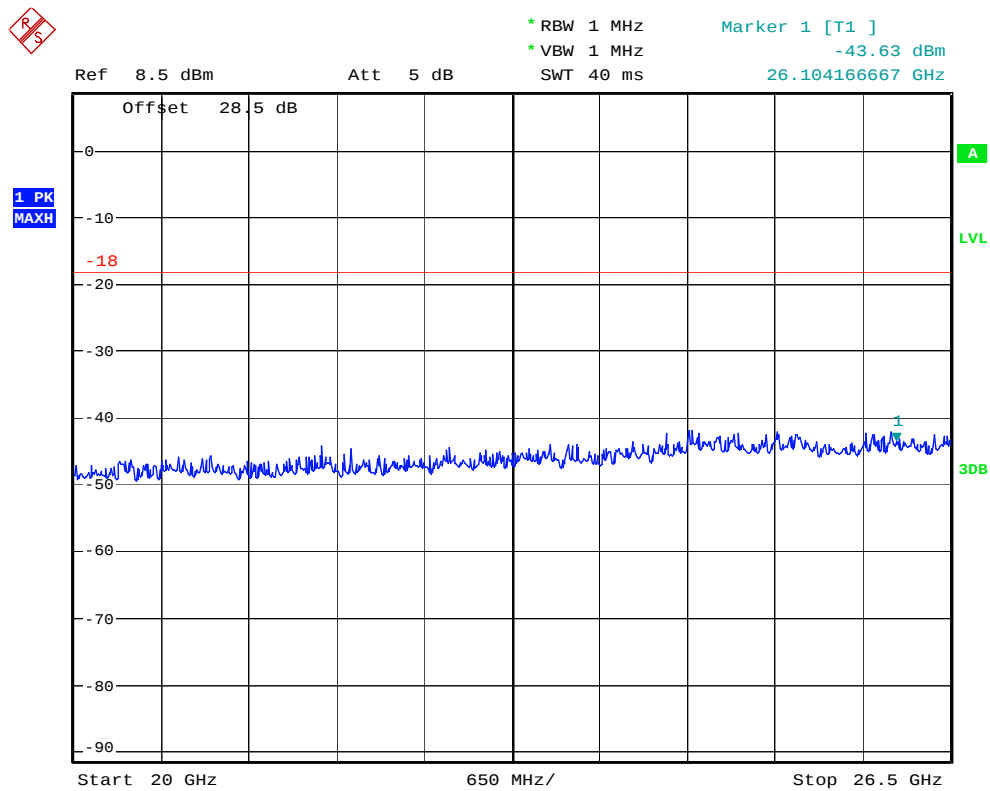
Date: 27.JAN.2011 14:06:44

Conducted Spurious Emissions 2-10GHz (Mid Channel)



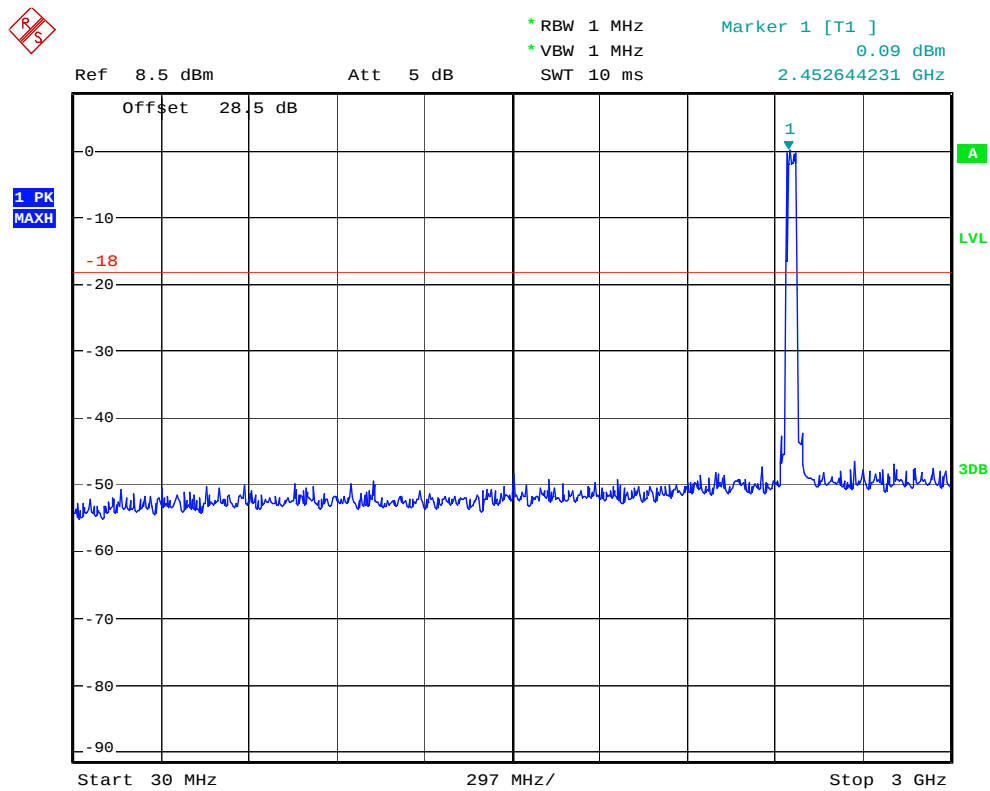
Date: 27.JAN.2011 14:07:03

Conducted Spurious Emissions 10-20GHz (Mid Channel)



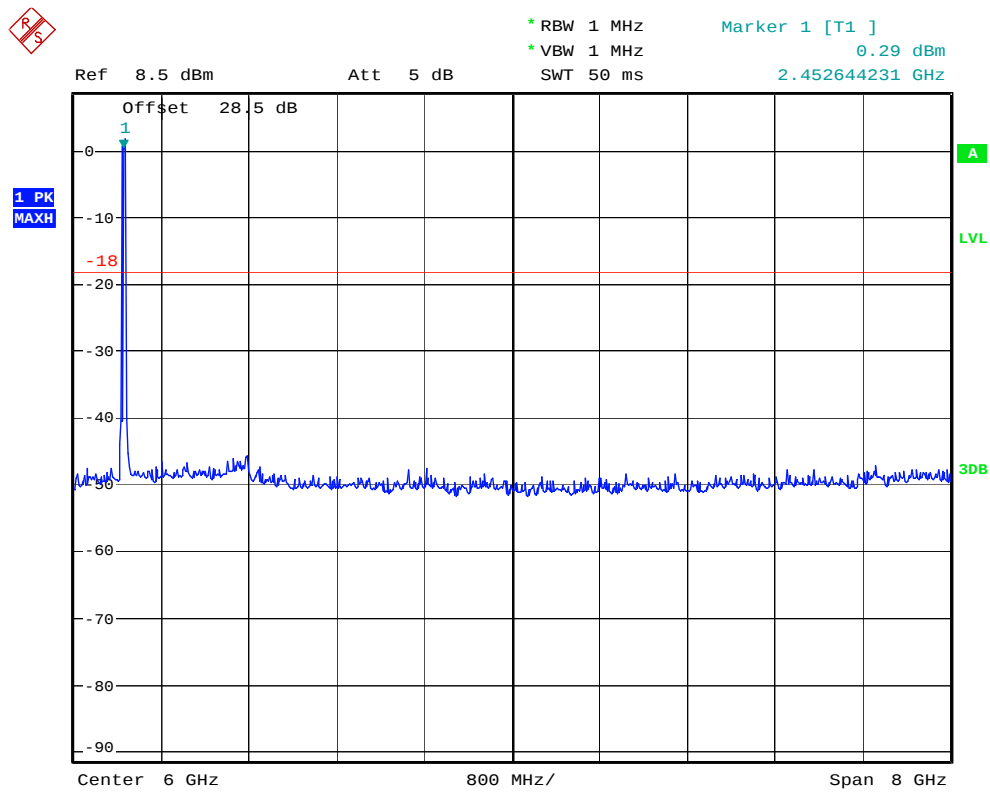
Date: 27.JAN.2011 14:07:23

Conducted Spurious Emissions 20-26.5GHz (Mid Channel)



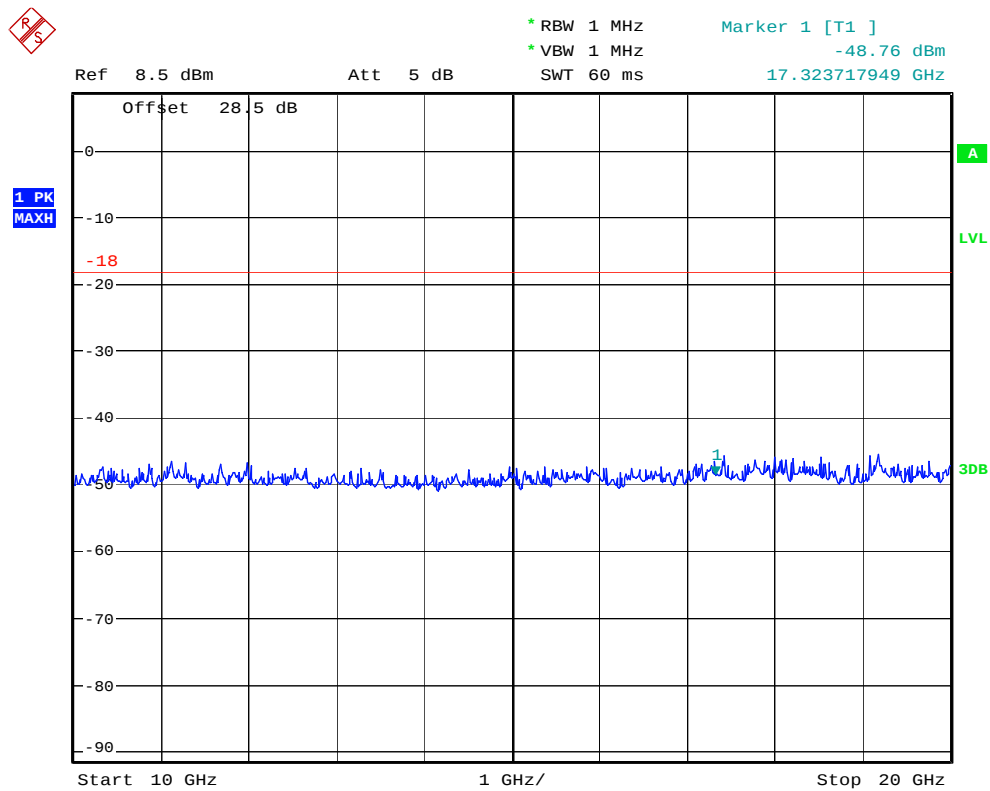
Date: 27.JAN.2011 14:07:58

Conducted Spurious Emissions 30-3000MHz (High Channel)



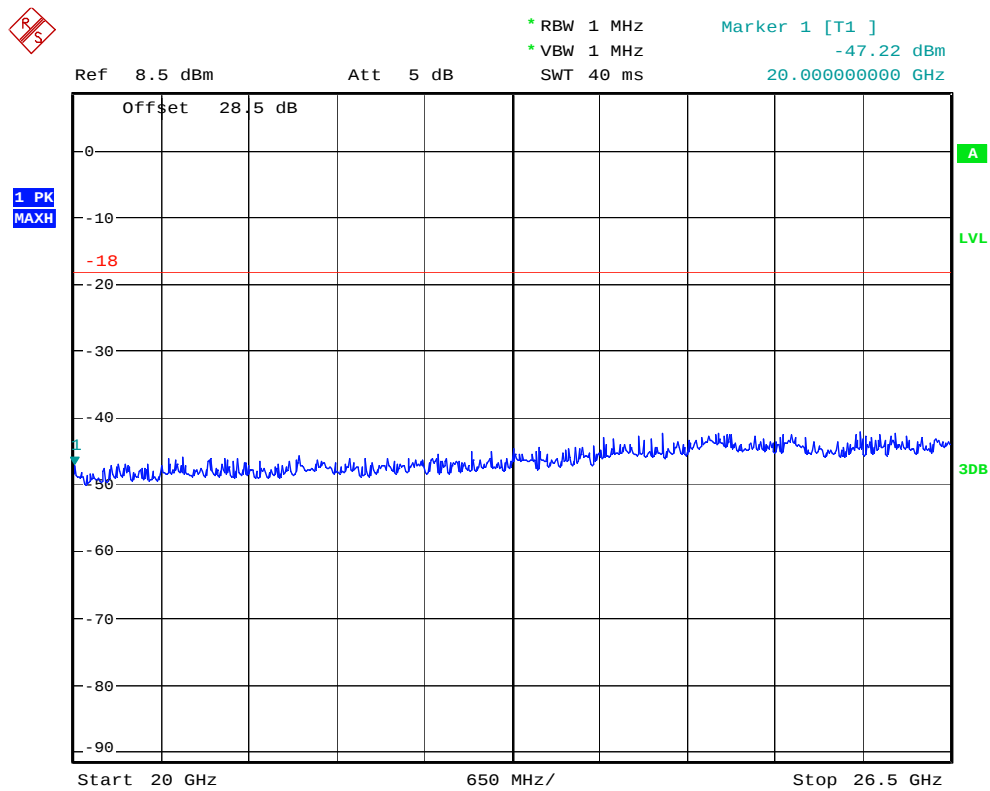
Date: 27.JAN.2011 14:08:17

Conducted Spurious Emissions 2-10GHz (High Channel)



Date: 27.JAN.2011 14:08:35

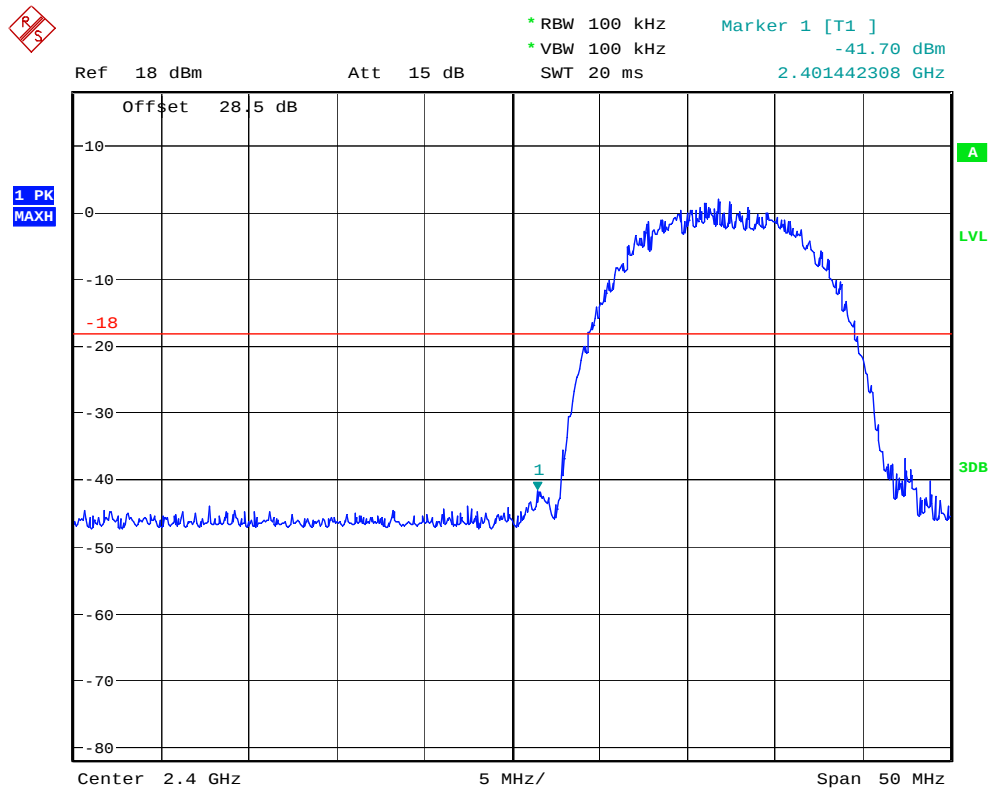
Conducted Spurious Emissions 10-20GHz (High Channel)



Date: 27.JAN.2011 14:08:50

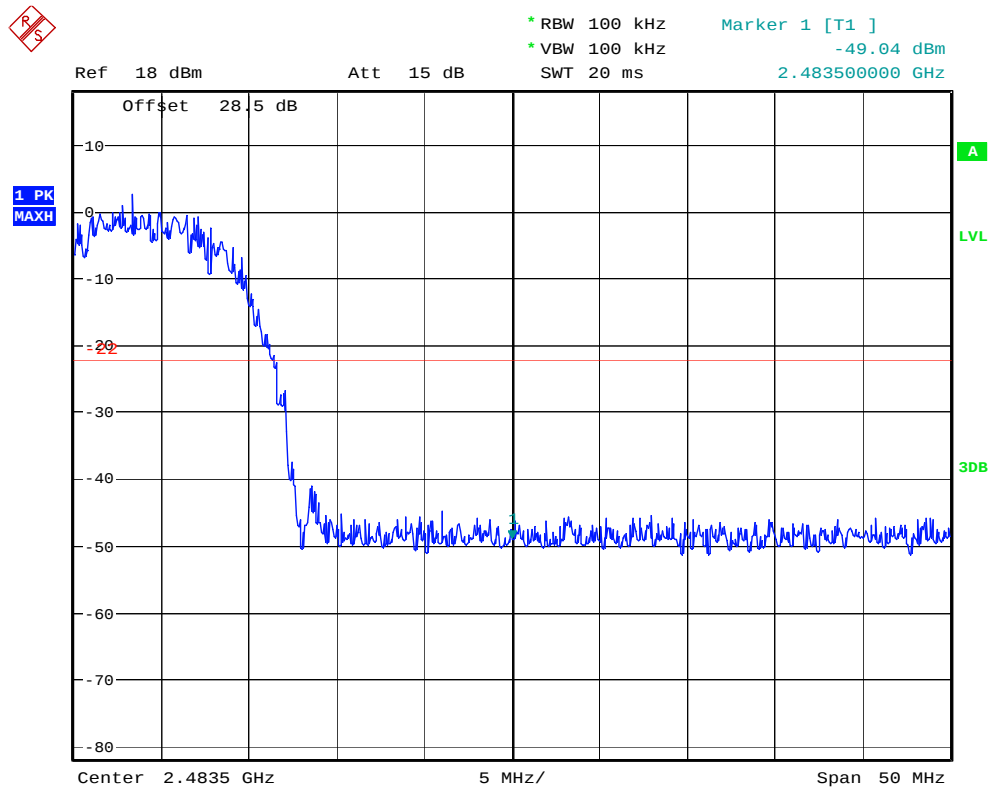
Conducted Spurious Emissions 20-26.5GHz (High Channel)

802.11 b @ 11 Mbps Band Edge



Date: 24.JAN.2011 14:39:48

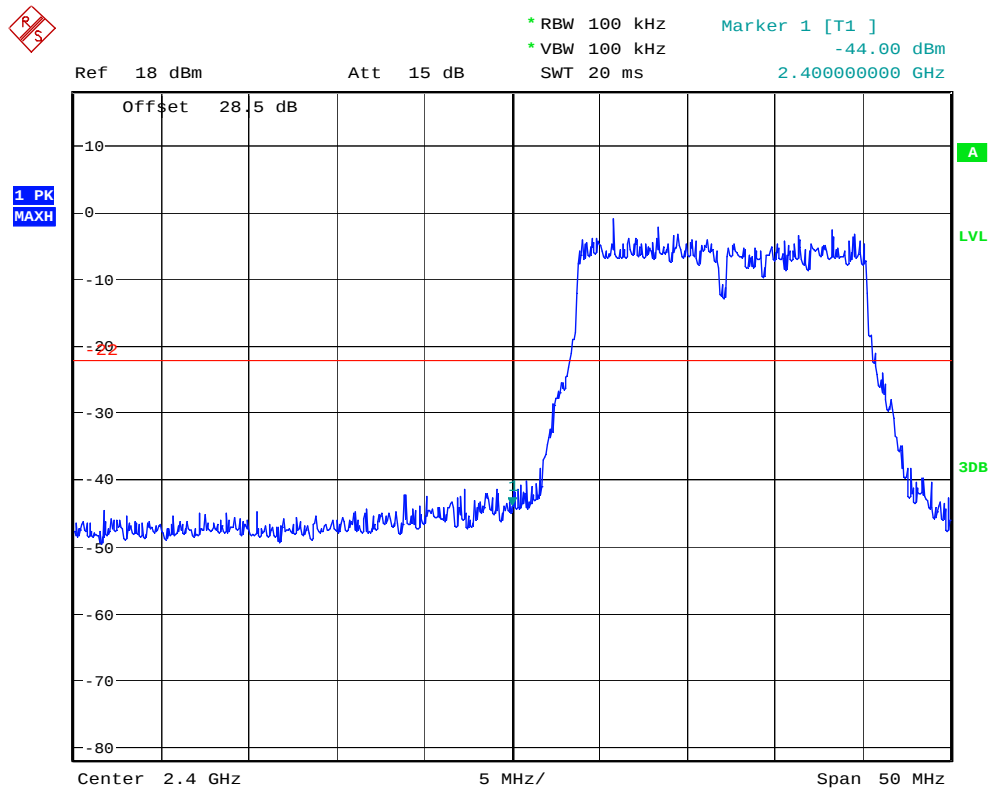
Channel 1 @ 11 Mbps – Lower Band Edge



Date: 24.JAN.2011 15:12:23

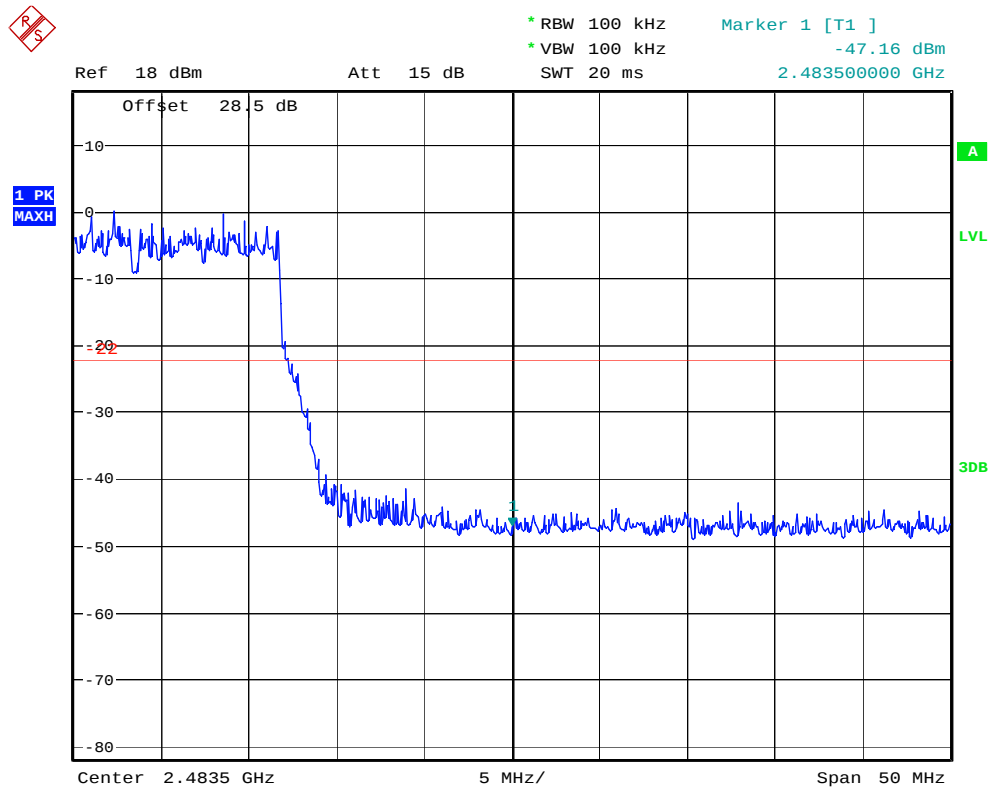
Channel 11 @ 11 Mbps – Upper Band Edge

802.11 g @ 48 Mbps Band Edge



Date: 24.JAN.2011 15:13:24

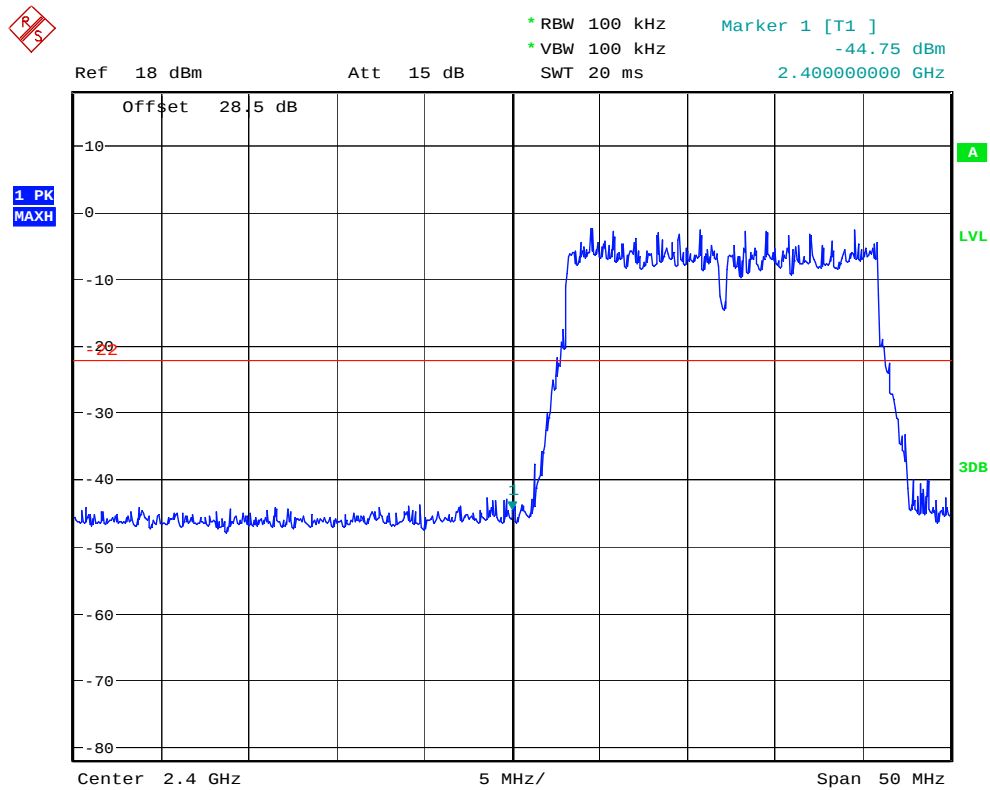
Channel 1 @ 48 Mbps – Lower Band Edge



Date: 24.JAN.2011 15:14:20

Channel 11 @ 48 Mbps – Upper Band Edge

802.11 n @ 65 Mbps Band Edge



Date: 24.JAN.2011 15:00:33

Channel 1 @ 65 Mbps – Lower Band Edge

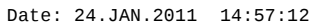
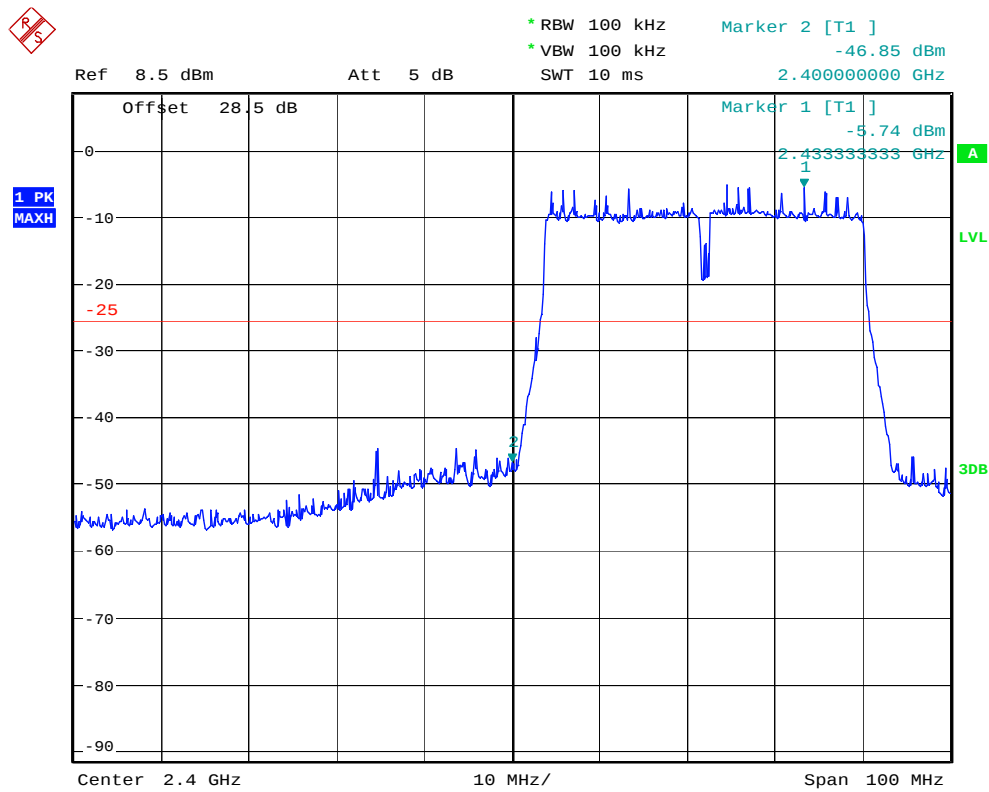


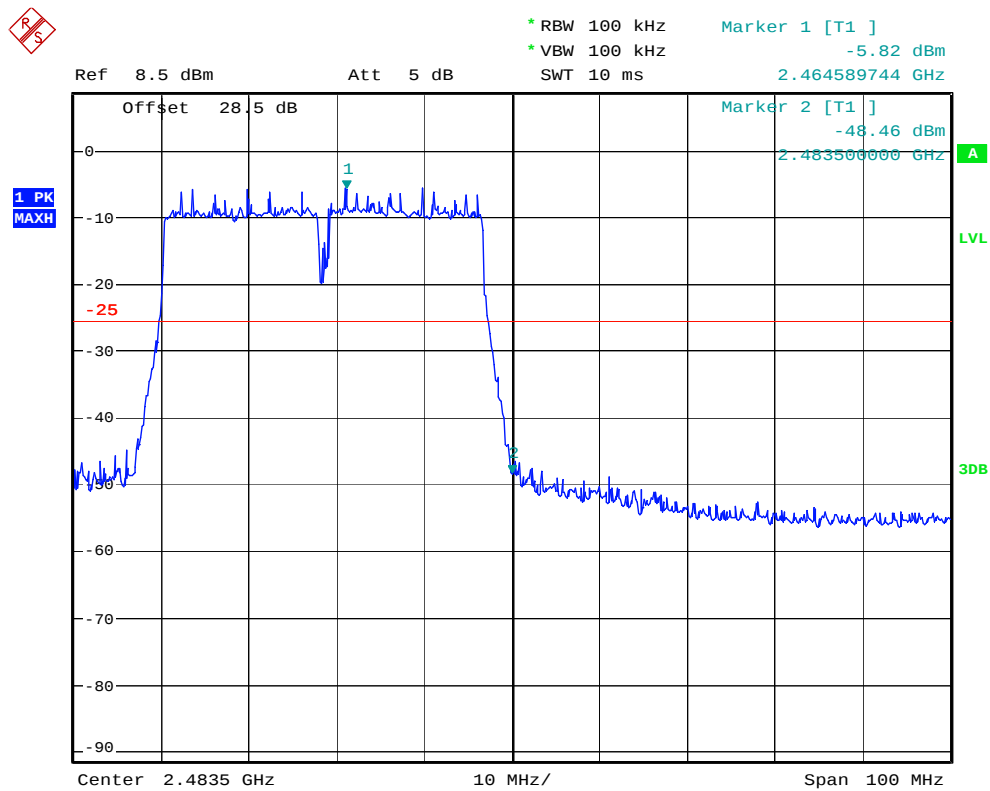
EXHIBIT 6A5

802.11 n @ 13.5 Mbps Band Edge



Date: 26.JAN.2011 18:19:18

Channel 1 @ 13.5 Mbps – Lower Band Edge



Date: 26.JAN.2011 18:21:13

Channel 11 @ 13.5 Mbps – Upper Band Edge

AC LINE CONDUCTED EMISSIONS

CFR 47 Part 15.207

Measurement Procedure

Measured levels of ac power line conducted emission shall be the radio-noise voltage from the line probe or across the 50 Ω LISN port, where permitted, terminated into a 50 Ω noise meter, or where permitted or required, the radio-noise current on the power line sensed by a current probe.

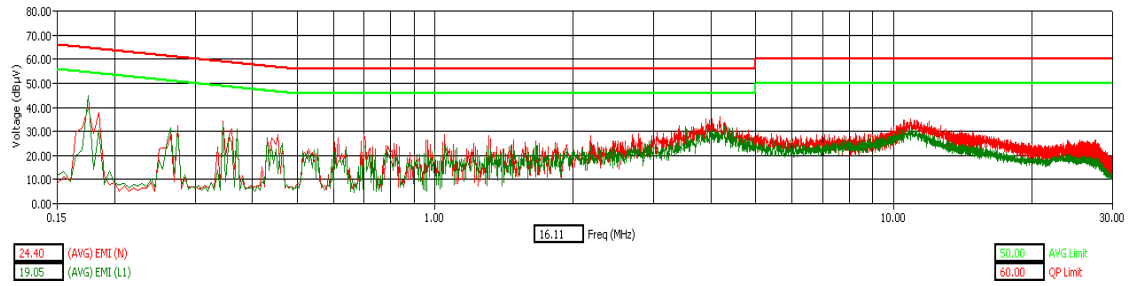
All radio-noise voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord or calibrated extension cord by the use of mating plugs and receptacles on the EUT and LISN. Equipment shall be tested with power cords that are normally supplied using an LISN, the 50 Ω measuring port is terminated by a 50 Ω radio-noise meter or a 50 Ω resistive load. All other ports are terminated in 50 Ω .

Detectors – Peak and Average Detector

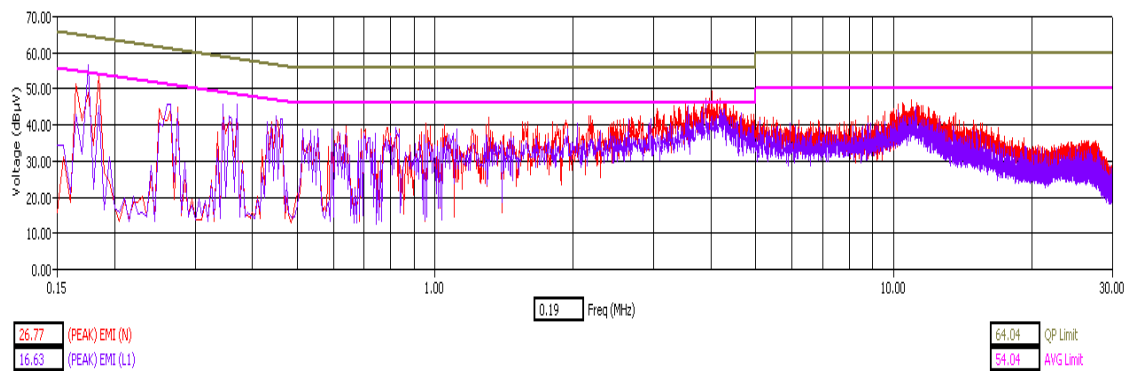
Measurement Results

See attached:

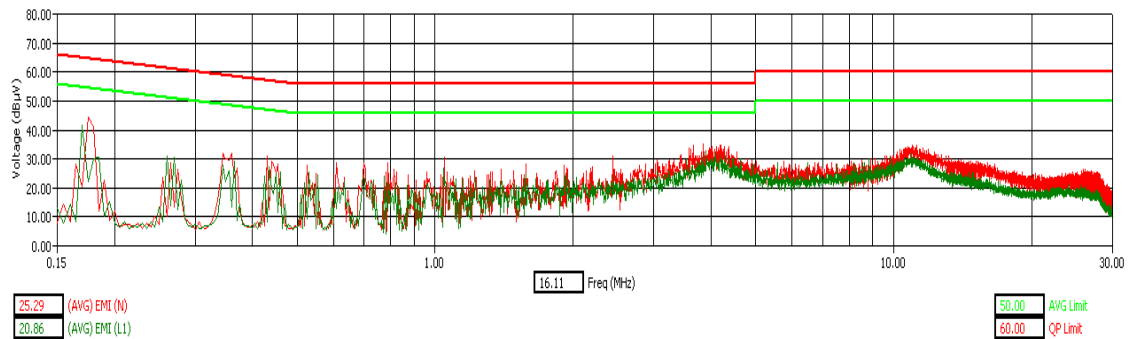
802.11b @ 11Mbps



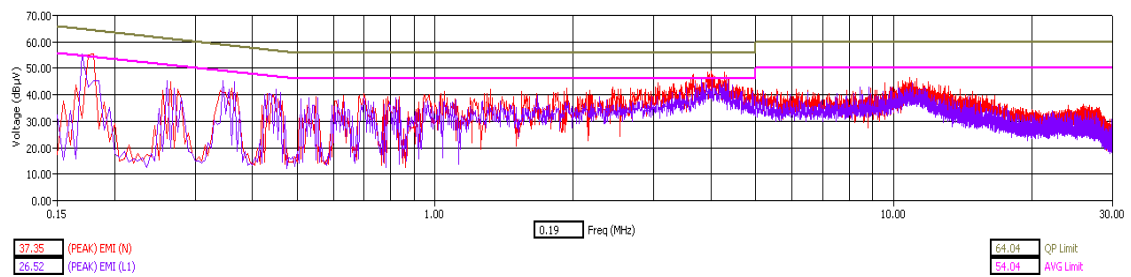
WLAN Channel 1 - Tx Mode - AVG Detector



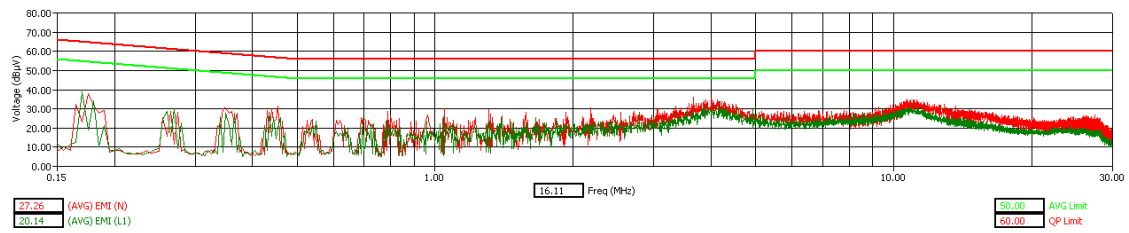
WLAN Channel 1 - Tx Mode - Peak Detector



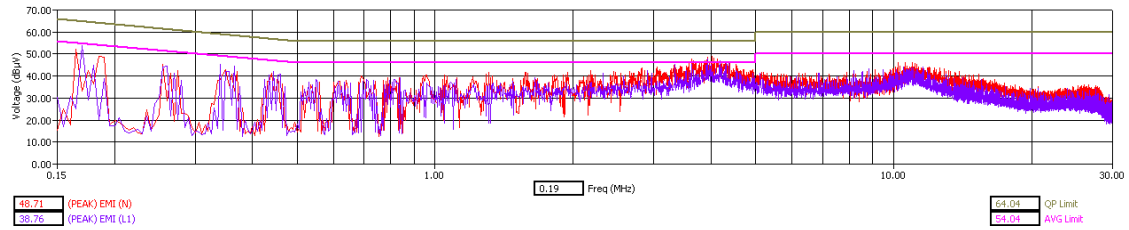
WLAN Channel 6 - Tx Mode - AVG Detector



WLAN Channel 6 - Tx Mode - Peak Detector

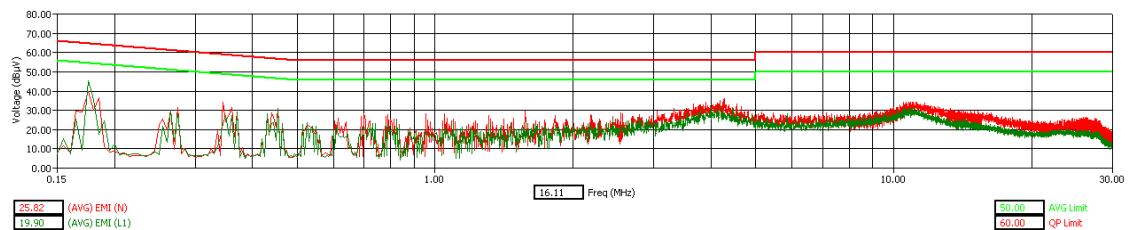


WLAN Channel 11 - Tx Mode - AVG Detector

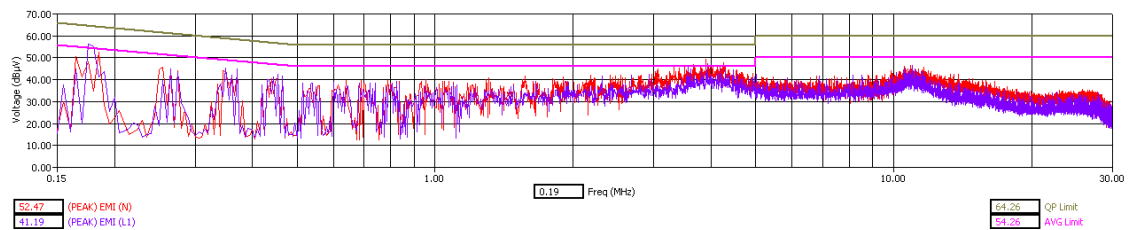


WLAN Channel 11 - Tx Mode - Peak Detector

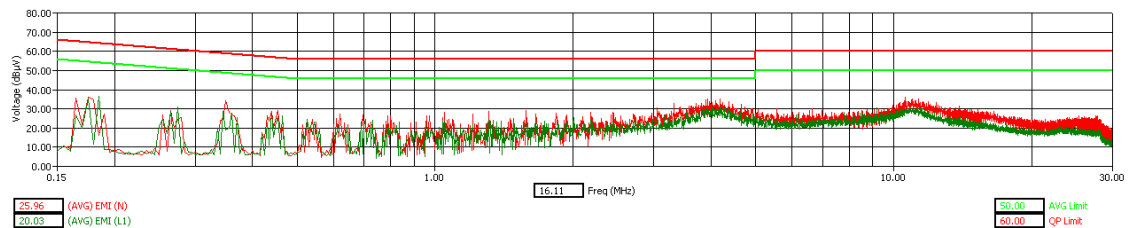
802.11g @ 48Mbps



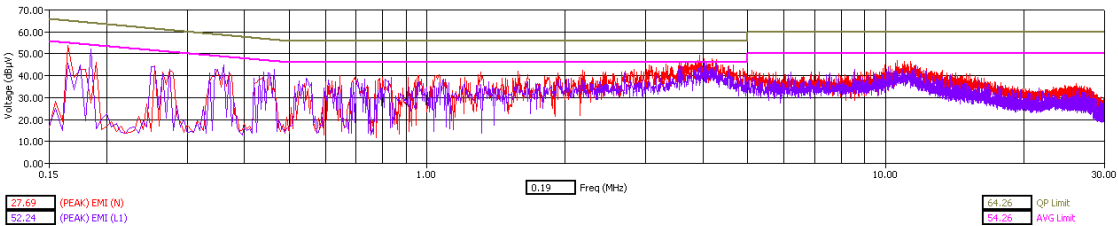
WLAN Channel 1 - Tx Mode - AVG Detector



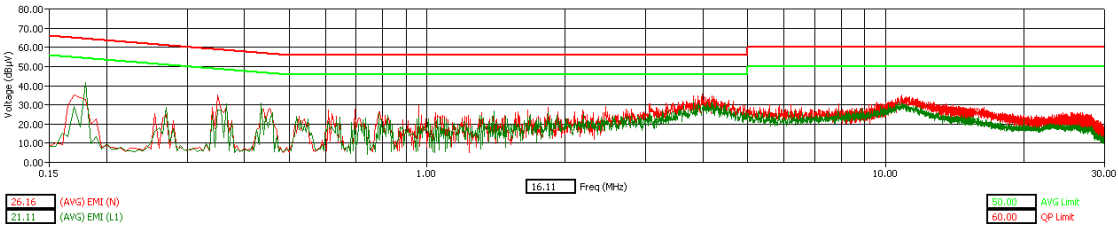
WLAN Channel 1 - Tx Mode -Peak Detector



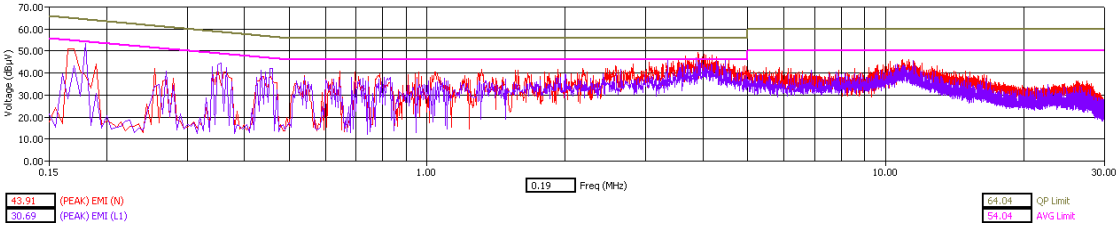
WLAN Channel 6 - Tx Mode - AVG Detector



WLAN Channel 6 - Tx Mode - Peak Detector



WLAN Channel 11 - Tx Mode - AVG Detector



WLAN Channel 11 - Tx Mode - Peak Detector

End of Test Report