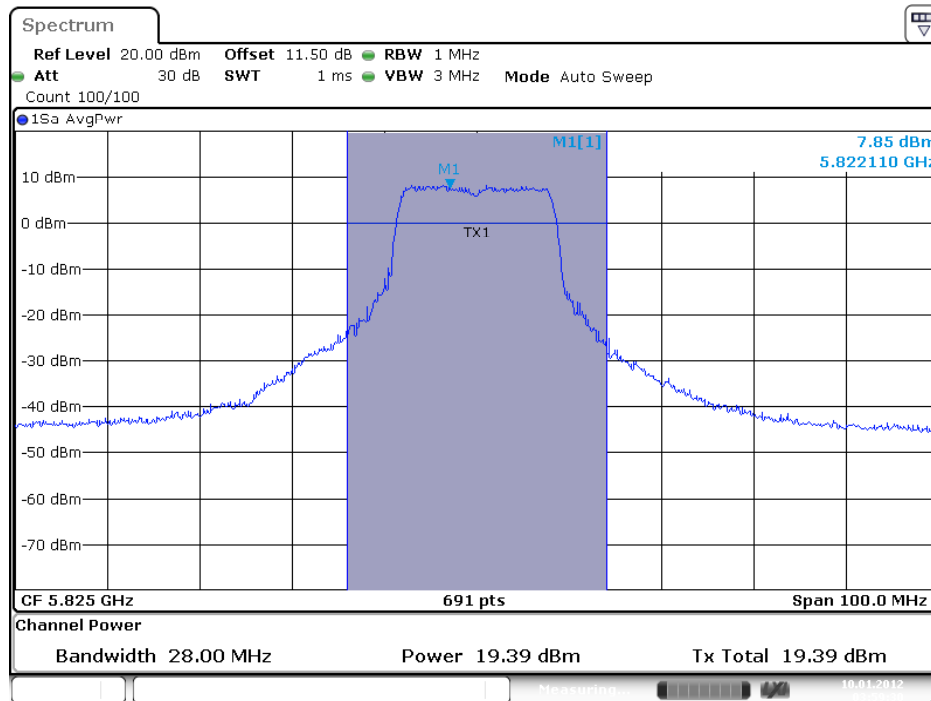
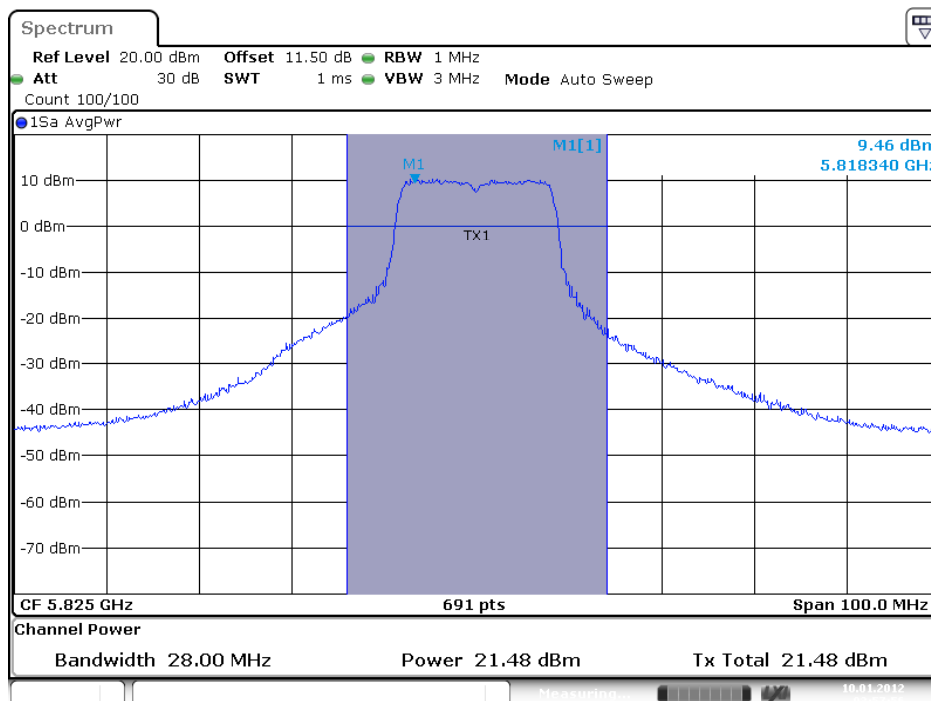


Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 1 / 5825 MHz/ Mode 9 (2TX, 2RX)



Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 2 / 5825 MHz/ Mode 9 (2TX, 2RX)



<b>Temperature</b>	25°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Benson Peng	<b>Configurations</b>	IEEE 802.11n
<b>Test Date</b>	Feb. 03, 2012	<b>Test Mode</b>	Mode 10

**Configuration IEEE 802.11n MCS0 20MHz / Chain 2 (1TX, 2RX)**

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	12.48	25.10	Complies
6	2437 MHz	14.87	25.10	Complies
11	2462 MHz	11.17	25.10	Complies

**Configuration IEEE 802.11n MCS0 40MHz / Chain 2 (1TX, 2RX)**

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	9.03	25.10	Complies
6	2437 MHz	13.38	25.10	Complies
9	2452 MHz	8.27	25.10	Complies

<b>Temperature</b>	25°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Benson Peng	<b>Configurations</b>	IEEE 802.11 b/g
<b>Test Date</b>	Feb. 03, 2012	<b>Test Mode</b>	Mode 10

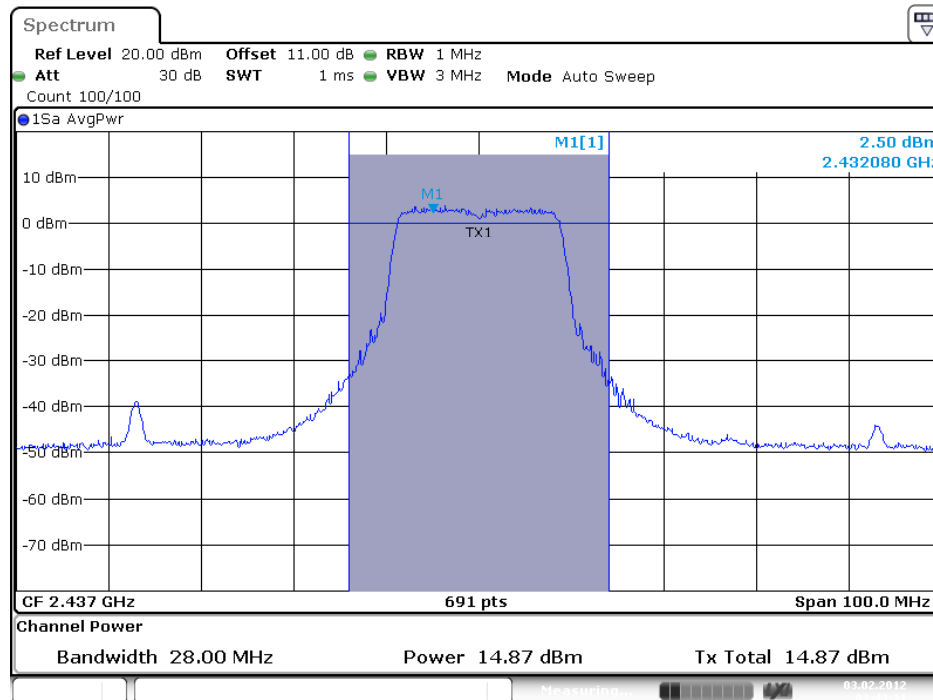
**Configuration IEEE 802.11b / Chain 2 (1TX, 2RX)**

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.83	25.10	Complies
6	2437 MHz	20.04	25.10	Complies
11	2462 MHz	16.38	25.10	Complies

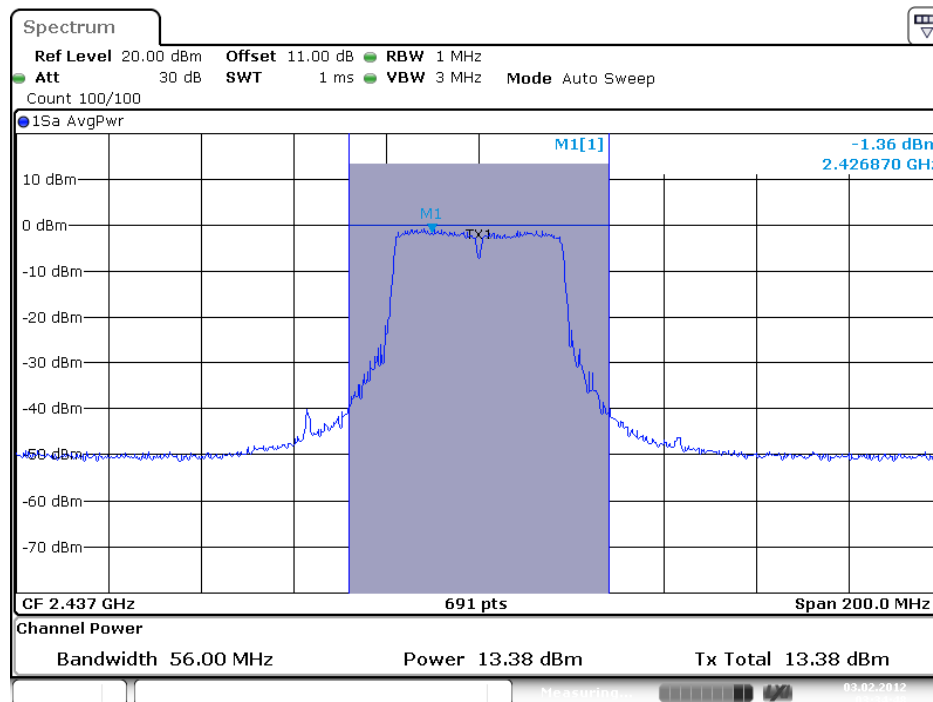
**Configuration IEEE 802.11g / Chain 2 (1TX, 2RX)**

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	13.13	25.10	Complies
6	2437 MHz	14.19	25.10	Complies
11	2462 MHz	11.80	25.10	Complies

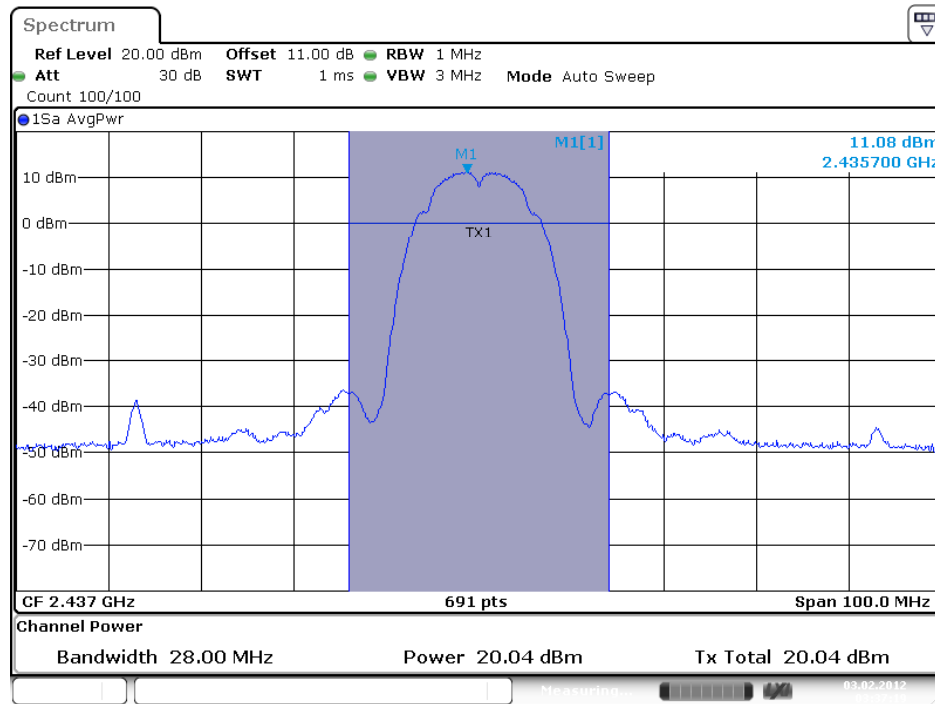
**Conducted Output Power Plot on Configuration IEEE 802.11n MCS0 20MHz / 2437 MHz/ Chain 2 / Mode 10 (1TX, 2RX)**



**Conducted Output Power Plot on Configuration IEEE 802.11n MCS0 40MHz / 2437 MHz/ Chain 2/ Mode 10 (1TX, 2RX)**

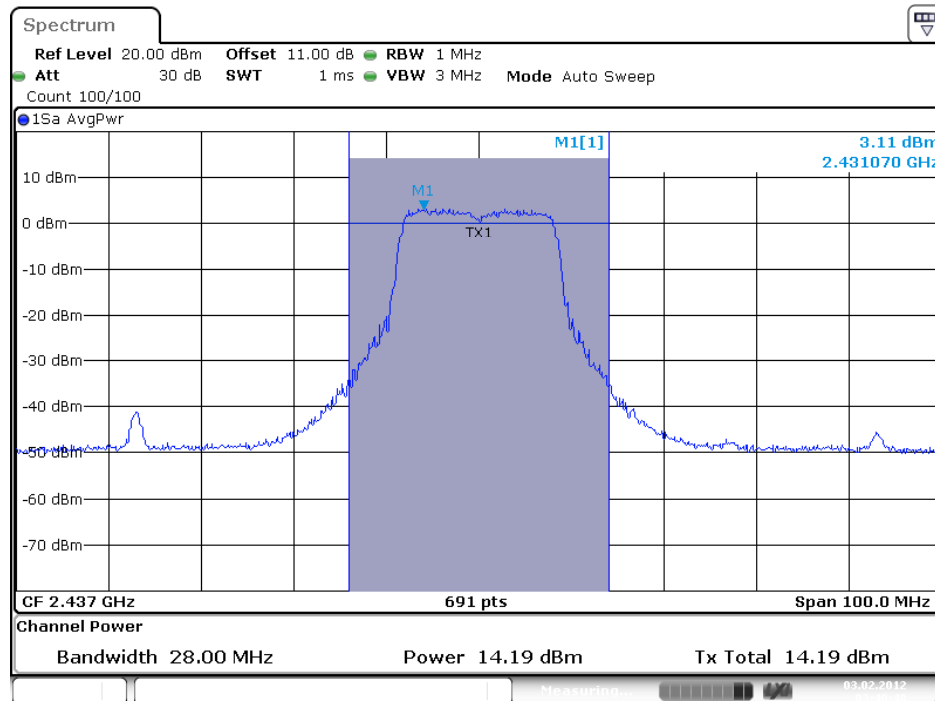


Conducted Output Power Plot on Configuration IEEE 802.11b / Chain 2 / 2437 MHz/ Mode 10 (1TX, 2RX)



Date: 3.FEB.2012 03:37:19

Conducted Output Power Plot on Configuration IEEE 802.11g / Chain 2 / 2437 MHz/ Mode 10 (1TX, 2RX)



Date: 3.FEB.2012 03:40:49

<b>Temperature</b>	25°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Benson Peng	<b>Configurations</b>	IEEE 802.11n
<b>Test Date</b>	Feb. 08, 2012	<b>Test Mode</b>	Mode 11

**Configuration IEEE 802.11n MCS0 20MHz / Chain 1 (1TX, 2RX)**

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	14.80	25.10	Complies
6	2437 MHz	15.00	25.10	Complies
11	2462 MHz	12.07	25.10	Complies

**Configuration IEEE 802.11n MCS0 40MHz / Chain 1(1TX, 2RX)**

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	8.27	25.10	Complies
6	2437 MHz	15.19	25.10	Complies
9	2452 MHz	9.05	25.10	Complies

<b>Temperature</b>	25°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Satoshi Yang	<b>Configurations</b>	IEEE 802.11b/g
<b>Test Date</b>	Feb. 08, 2012	<b>Test Mode</b>	Mode 11

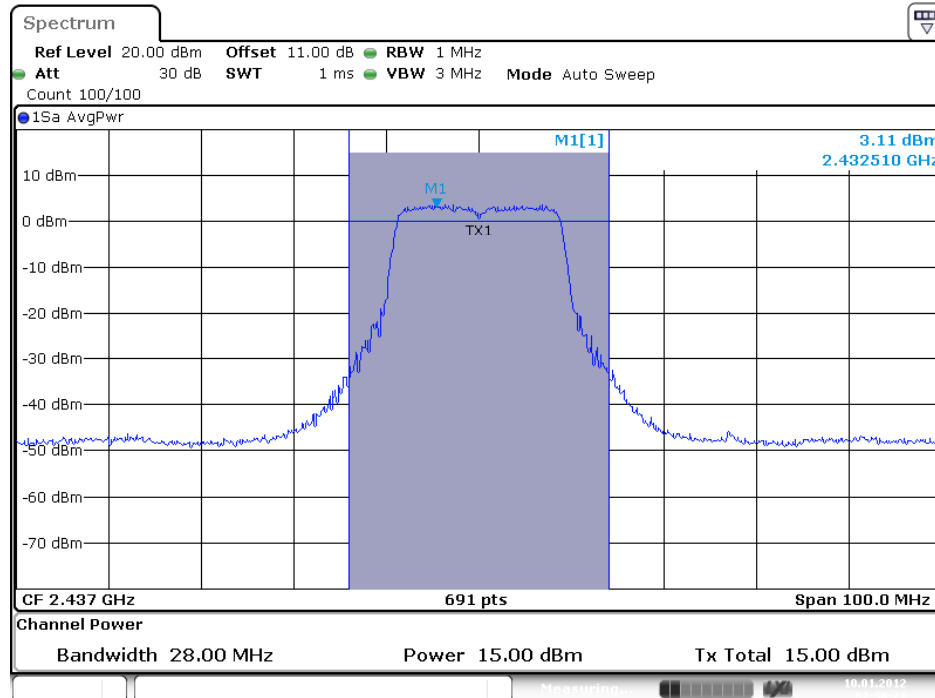
**Configuration IEEE 802.11b / Chain 1 (1TX, 2RX)**

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	18.65	25.10	Complies
6	2437 MHz	17.39	25.10	Complies
11	2462 MHz	17.36	25.10	Complies

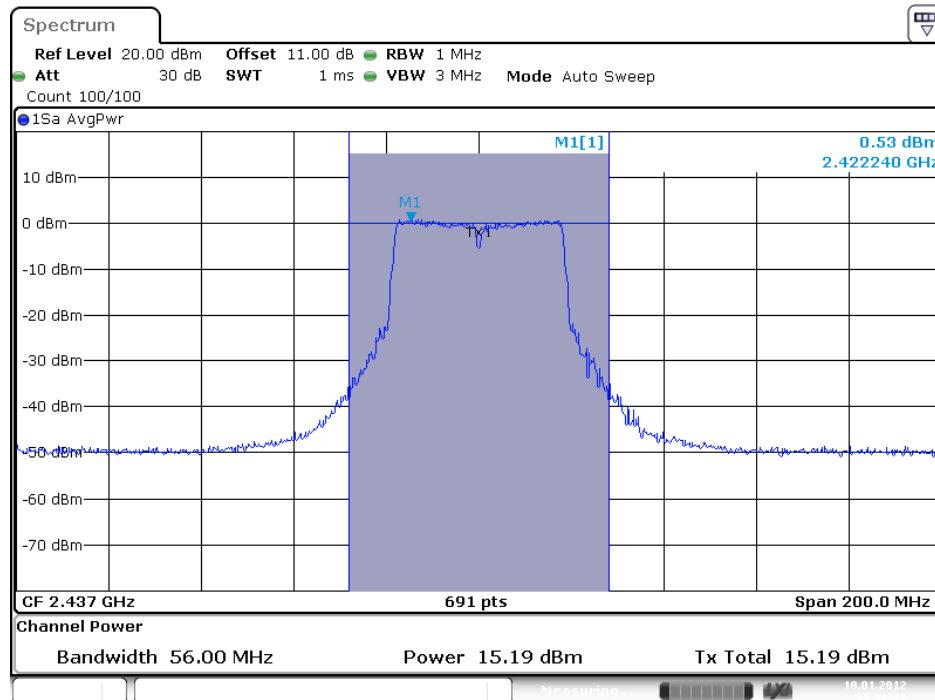
**Configuration IEEE 802.11g / Chain 1 (1TX, 2RX)**

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	15.21	25.10	Complies
6	2437 MHz	14.15	25.10	Complies
11	2462 MHz	12.21	25.10	Complies

**Conducted Output Power Plot on Configuration IEEE 802.11n MCS0 20MHz / 2437 MHz/ Chain 1 / Mode 11 (1TX, 2RX)**

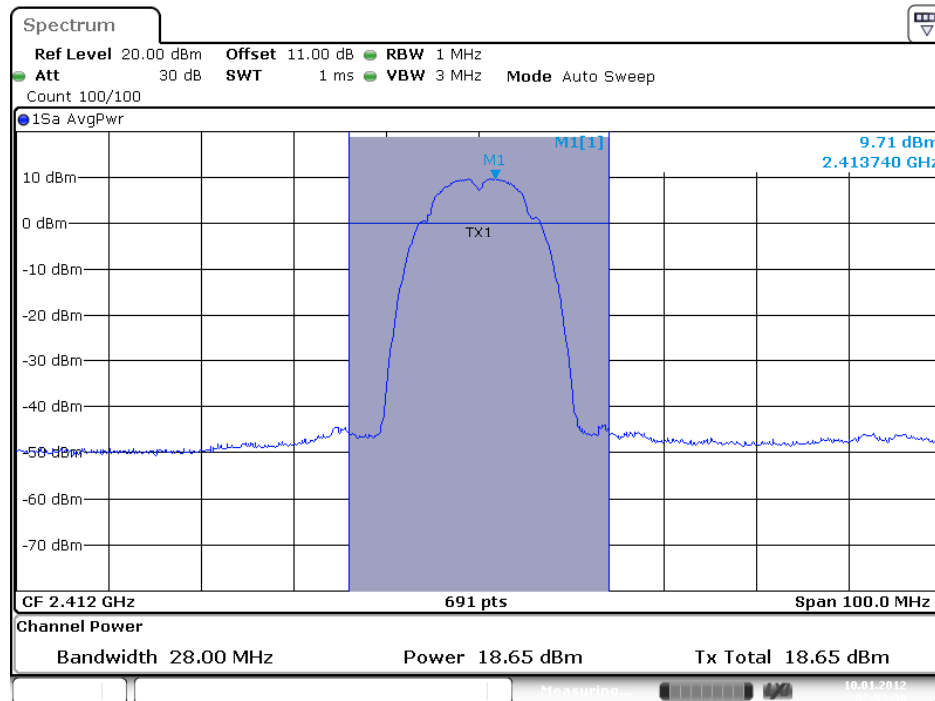


**Conducted Output Power Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 2437 MHz / Mode 11 (1TX, 2RX)**

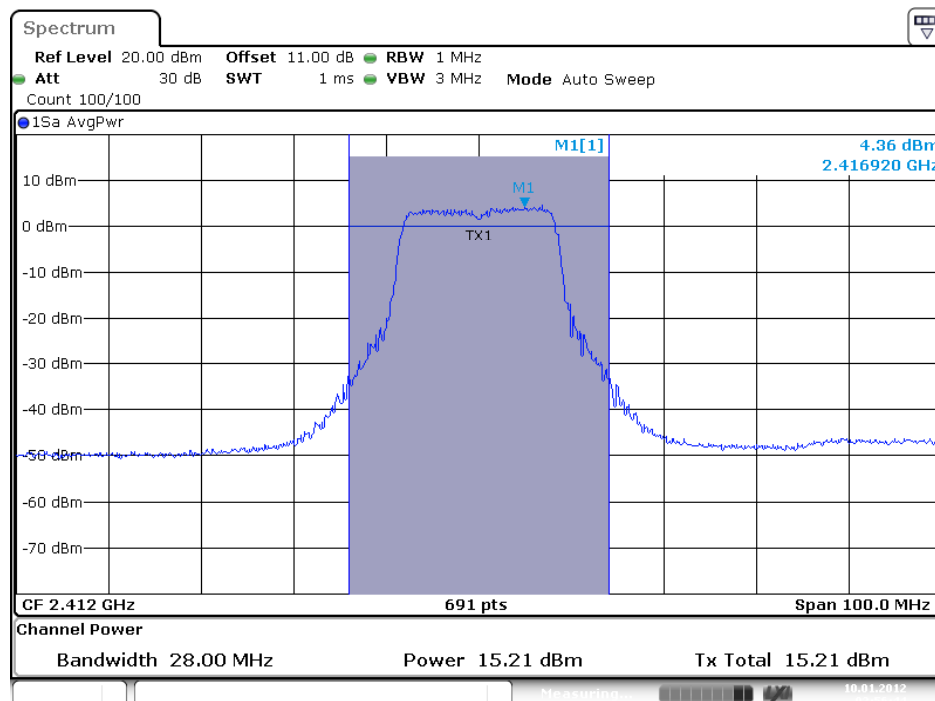




Conducted Output Power Plot on Configuration IEEE 802.11b / Chain 1 / 2412 MHz/ Mode 11 (1TX, 2RX)



Conducted Output Power Plot on Configuration IEEE 802.11g / Chain 1 / 2412 MHz/ Mode 11 (1TX, 2RX)



<b>Temperature</b>	25°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Benson Peng	<b>Configurations</b>	IEEE 802.11n
<b>Test Date</b>	Feb. 08, 2012	<b>Test Mode</b>	Mode 12

**Configuration IEEE 802.11n MCS0 20MHz / Chain 1 (1TX, 2RX)**

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	17.52	23.50	Complies
157	5785 MHz	21.98	23.50	Complies
165	5825 MHz	22.30	23.50	Complies

**Configuration IEEE 802.11n MCS0 40MHz / Chain 1(1TX, 2RX)**

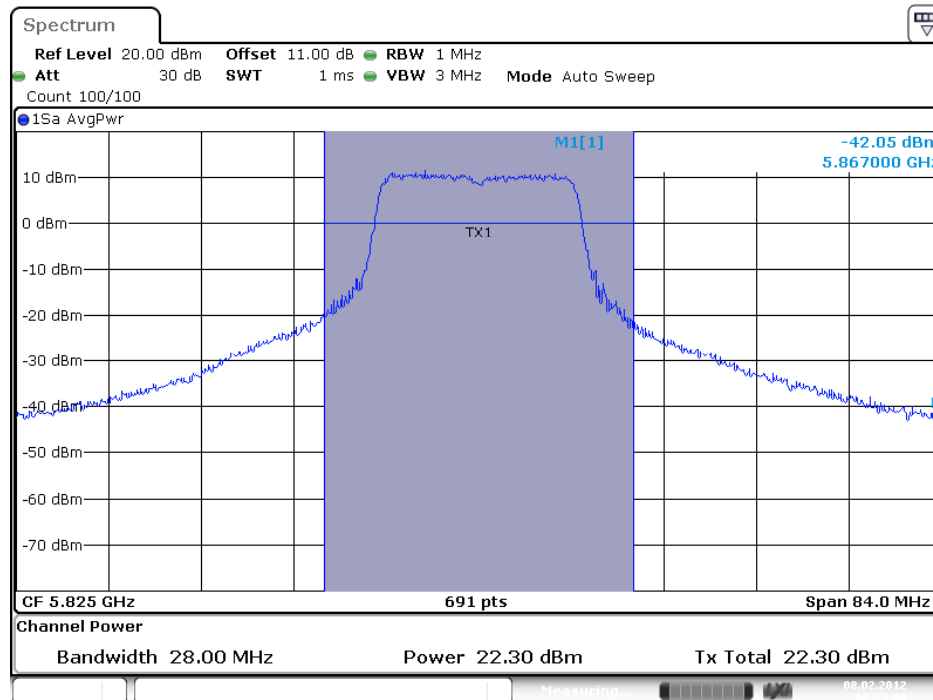
Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	17.50	23.50	Complies
159	5795 MHz	21.98	23.50	Complies

<b>Temperature</b>	25°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Satoshi Yang	<b>Configurations</b>	IEEE 802.11a
<b>Test Date</b>	Feb. 08, 2012	<b>Test Mode</b>	Mode 12

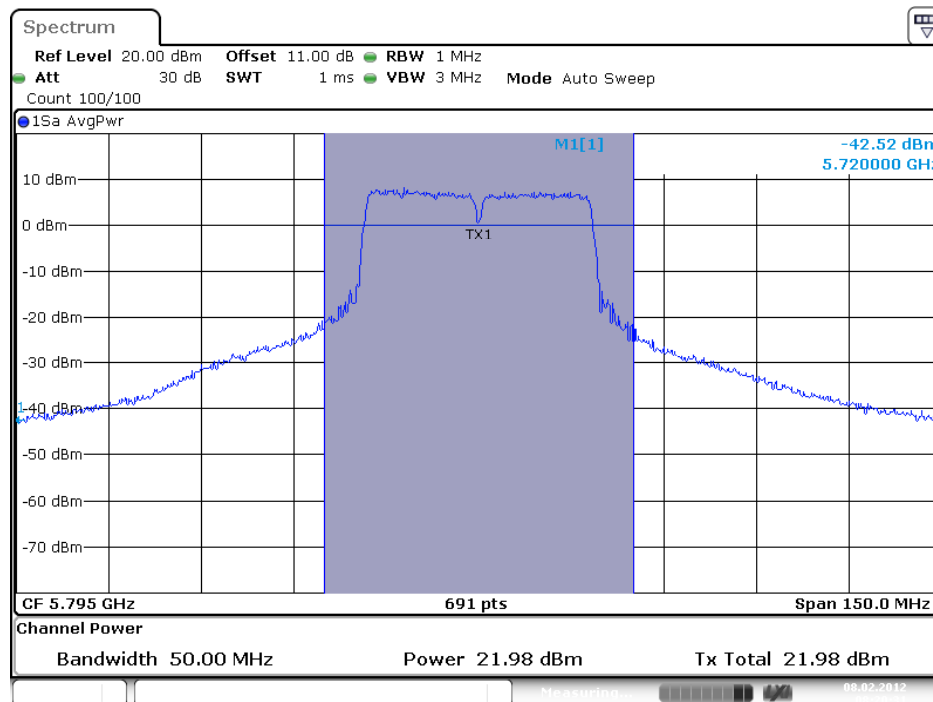
**Configuration IEEE 802.11a / Chain 1 (1TX, 2RX)**

Channel	Frequency	Conducted Peak Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	19.71	23.50	<b>Complies</b>
157	5785 MHz	21.89	23.50	<b>Complies</b>
165	5825 MHz	21.97	23.50	<b>Complies</b>

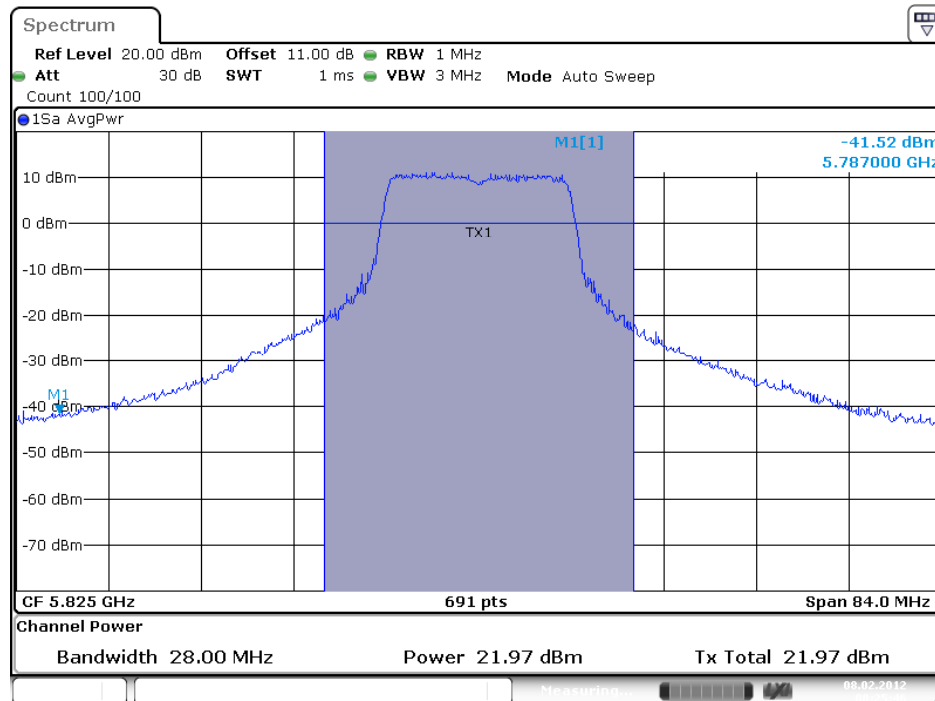
**Conducted Output Power Plot on Configuration IEEE 802.11n MCS0 20MHz / 5825 MHz/ Chain 1 / Mode 12 (1TX, 2RX)**



**Conducted Output Power Plot on Configuration IEEE 802.11n MCS0 40MHz / 5795 MHz/ Chain 1 / Mode 12 (1TX, 2RX)**



Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 1 / 5825 MHz/ Mode 12 (1TX, 2RX)



Date: 8.FEB.2012 08:25:46

<b>Temperature</b>	25°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Benson Peng	<b>Configurations</b>	IEEE 802.11n
<b>Test Date</b>	Jan. 18, 2012	<b>Test Mode</b>	Mode 13

**Configuration IEEE 802.11n MCS0 20MHz / Chain 2 (1TX, 2RX)**

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	16.51	24.90	Complies
6	2437 MHz	21.26	24.90	Complies
11	2462 MHz	15.15	24.90	Complies

**Configuration IEEE 802.11n MCS0 40MHz / Chain 2 (1TX, 2RX)**

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	13.71	24.90	Complies
6	2437 MHz	18.24	24.90	Complies
9	2452 MHz	12.80	24.90	Complies

<b>Temperature</b>	25°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Benson Peng	<b>Configurations</b>	IEEE 802.11 b/g
<b>Test Date</b>	Jan. 18, 2012	<b>Test Mode</b>	Mode 13

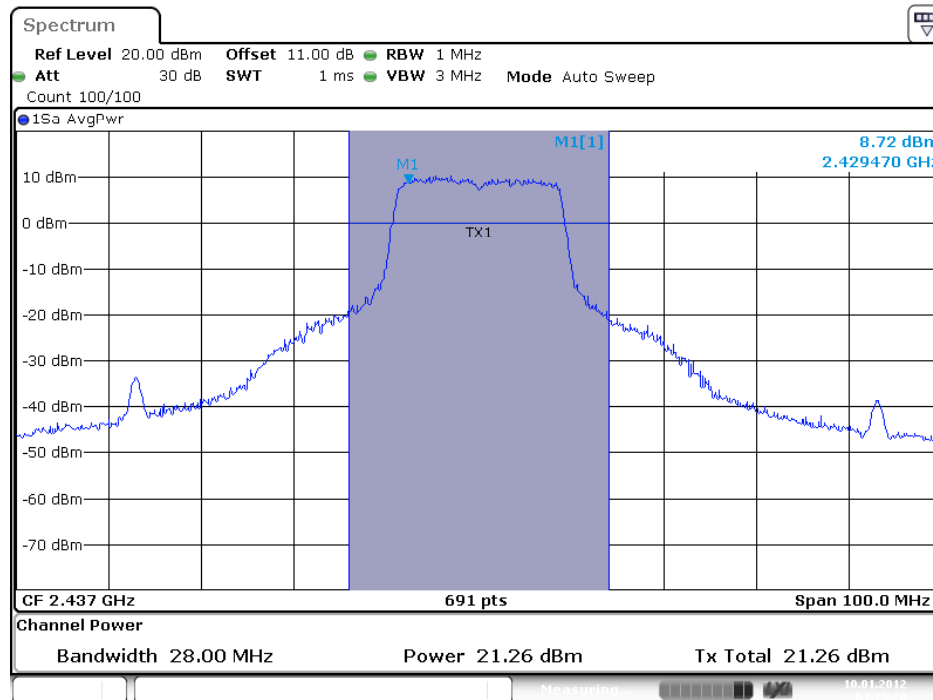
**Configuration IEEE 802.11b / Chain 2 (1TX, 2RX)**

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	20.97	24.90	Complies
6	2437 MHz	22.79	24.90	Complies
11	2462 MHz	18.90	24.90	Complies

**Configuration IEEE 802.11g / Chain 2 (1TX, 2RX)**

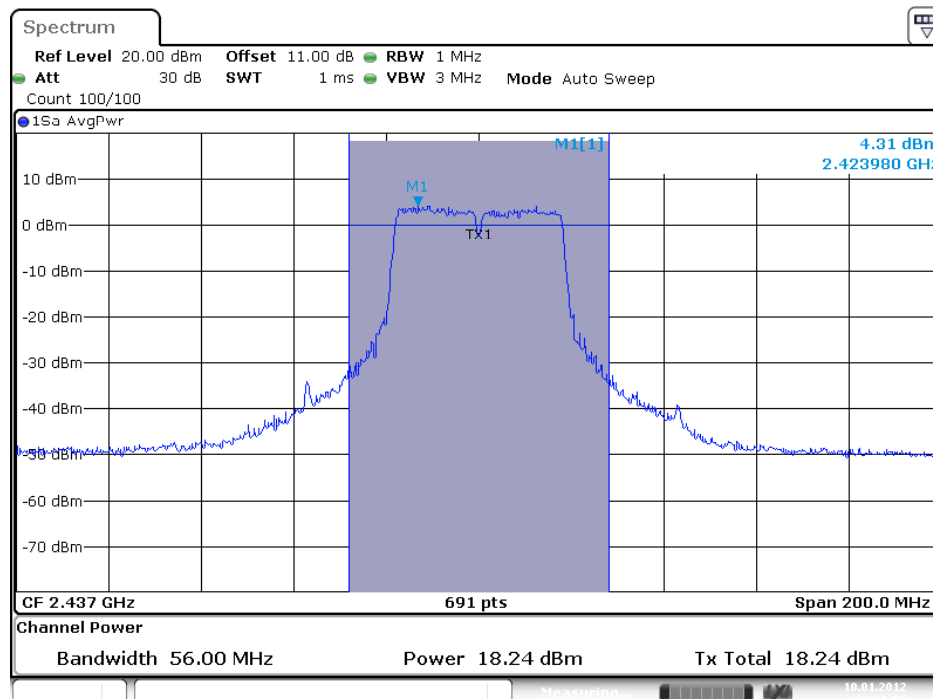
Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	17.09	24.90	Complies
6	2437 MHz	21.76	24.90	Complies
11	2462 MHz	16.40	24.90	Complies

**Conducted Output Power Plot on Configuration IEEE 802.11n MCS0 20MHz / 2437 MHz/ Chain 2 / Mode 13 (1TX, 2RX)**



Date: 10.JAN.2012 04:15:28

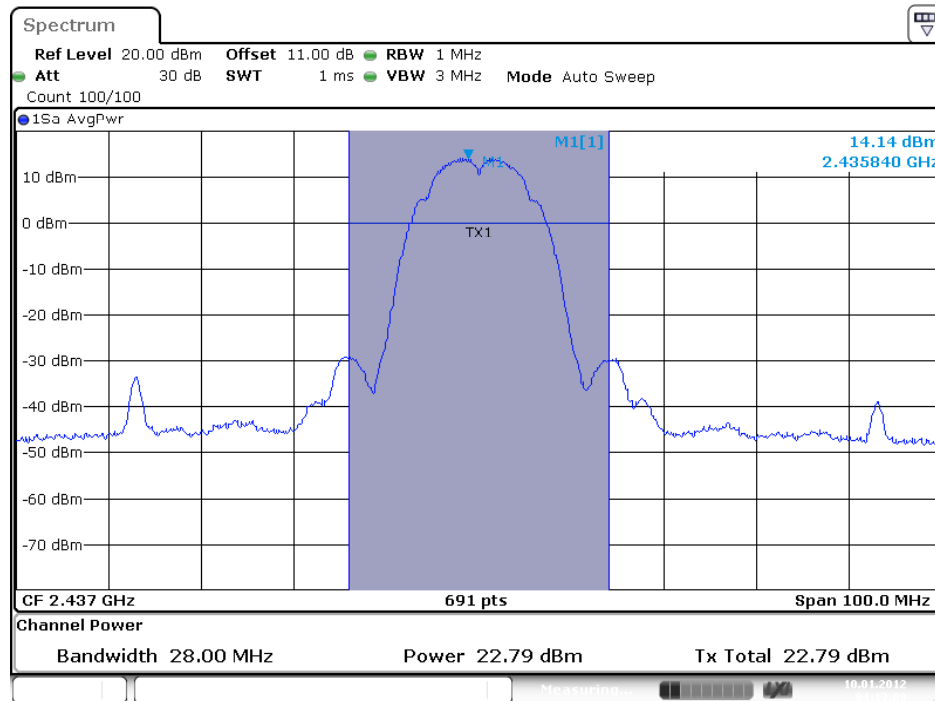
**Conducted Output Power Plot on Configuration IEEE 802.11n MCS0 40MHz / 2437 MHz/ Chain 2/ Mode 13 (1TX, 2RX)**



Date: 10.JAN.2012 04:16:55

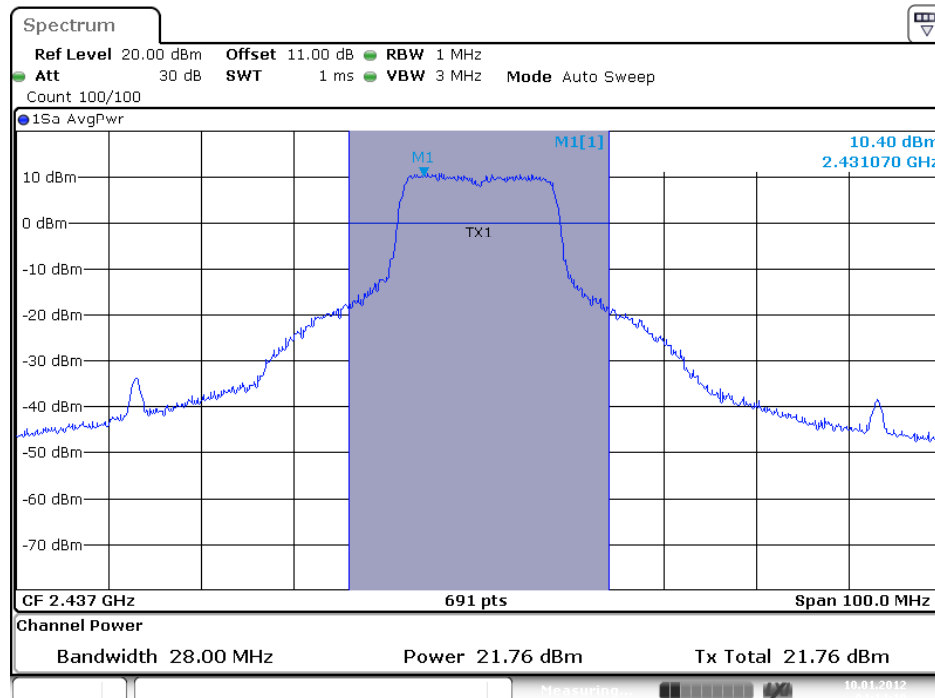


Conducted Output Power Plot on Configuration IEEE 802.11b / Chain 2 / 2437 MHz/ Mode 13 (1TX, 2RX)



Date: 10.JAN.2012 04:13:09

Conducted Output Power Plot on Configuration IEEE 802.11g / Chain 2 / 2437 MHz/ Mode 13 (1TX, 2RX)



Date: 10.JAN.2012 04:14:10

<b>Temperature</b>	25°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Benson Peng	<b>Configurations</b>	IEEE 802.11n
<b>Test Date</b>	Feb. 08, 2012	<b>Test Mode</b>	Mode 14

**Configuration IEEE 802.11n MCS0 20MHz / Chain 1 (1TX, 2RX)**

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	15.54	24.90	Complies
6	2437 MHz	18.22	24.90	Complies
11	2462 MHz	14.88	24.90	Complies

**Configuration IEEE 802.11n MCS0 40MHz / Chain 1(1TX, 2RX)**

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
3	2422 MHz	11.13	24.90	Complies
6	2437 MHz	16.67	24.90	Complies
9	2452 MHz	10.43	24.90	Complies

<b>Temperature</b>	25°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Satoshi Yang	<b>Configurations</b>	IEEE 802.11b/g
<b>Test Date</b>	Feb. 08, 2012	<b>Test Mode</b>	Mode 14

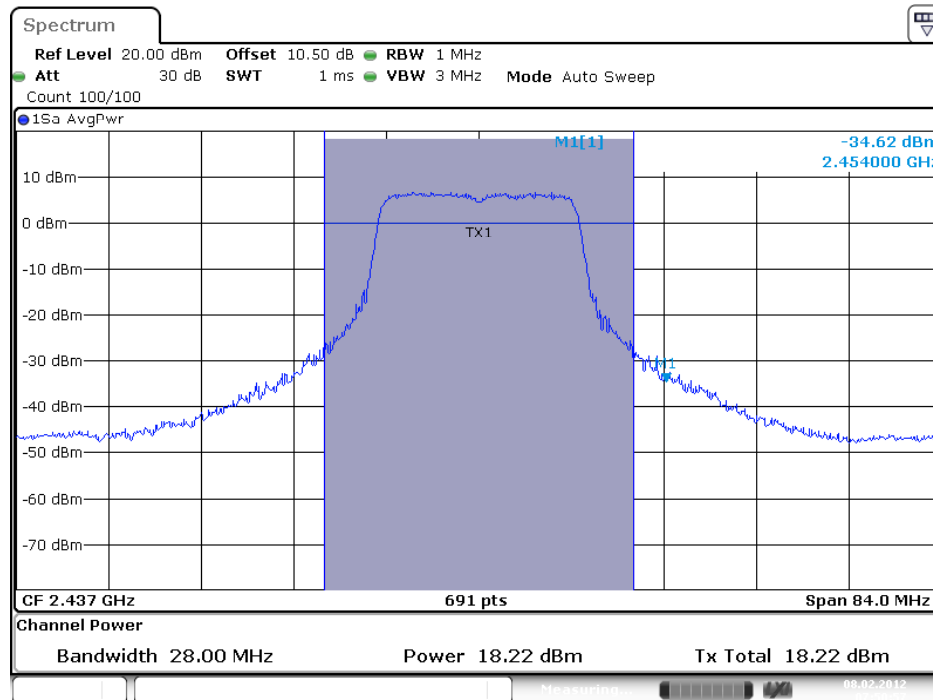
**Configuration IEEE 802.11b / Chain 1 (1TX, 2RX)**

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	20.54	24.90	Complies
6	2437 MHz	18.25	24.90	Complies
11	2462 MHz	18.52	24.90	Complies

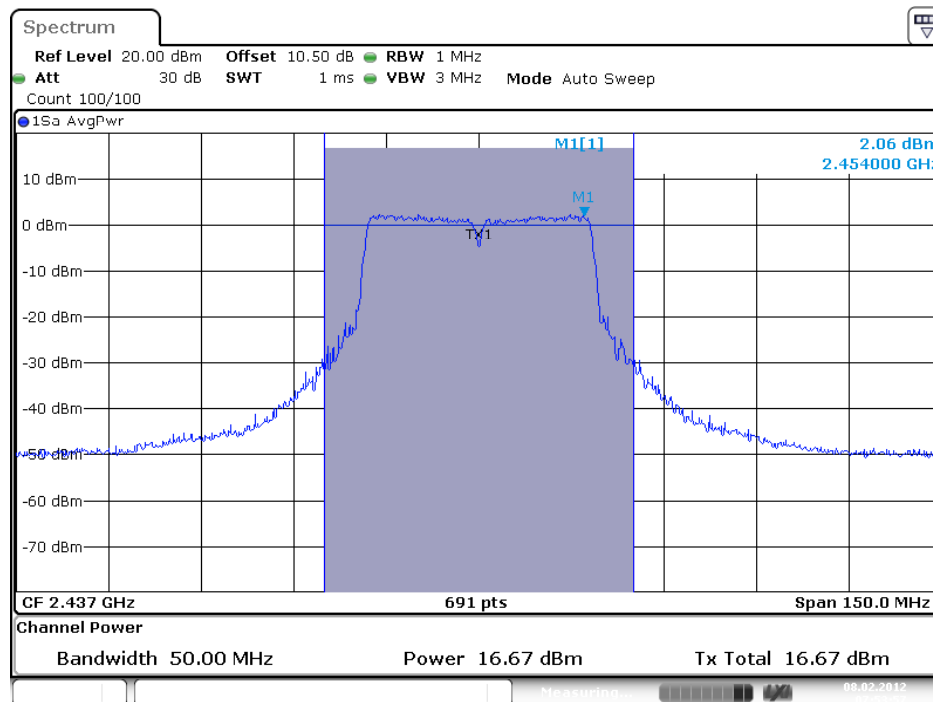
**Configuration IEEE 802.11g / Chain 1 (1TX, 2RX)**

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
1	2412 MHz	15.59	24.90	Complies
6	2437 MHz	15.93	24.90	Complies
11	2462 MHz	14.62	24.90	Complies

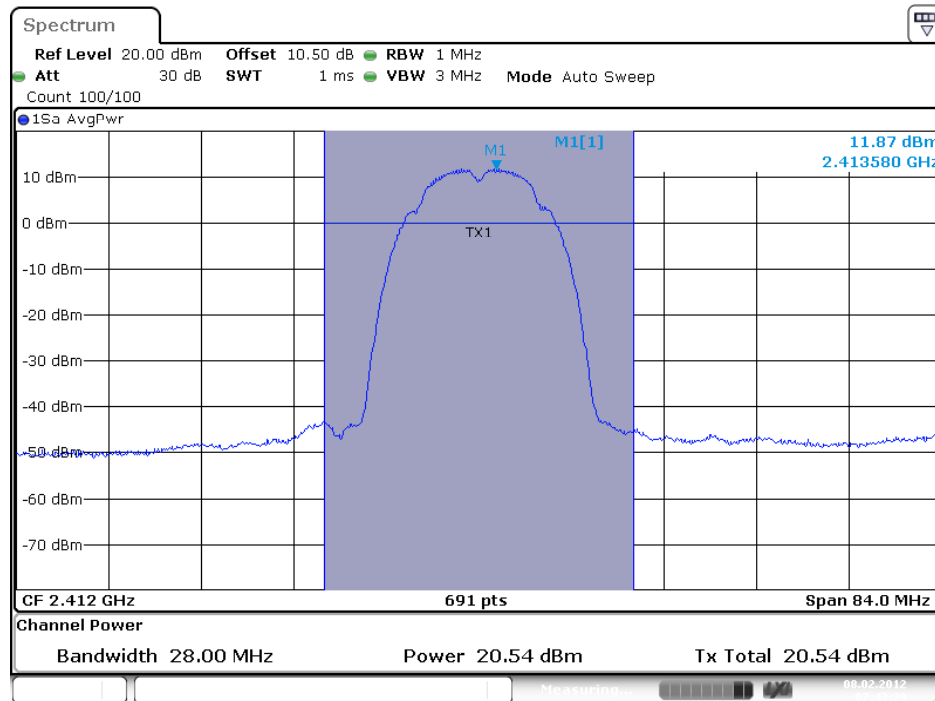
**Conducted Output Power Plot on Configuration IEEE 802.11n MCS0 20MHz / 2437 MHz/ Chain 1 / Mode 14 (1TX, 2RX)**



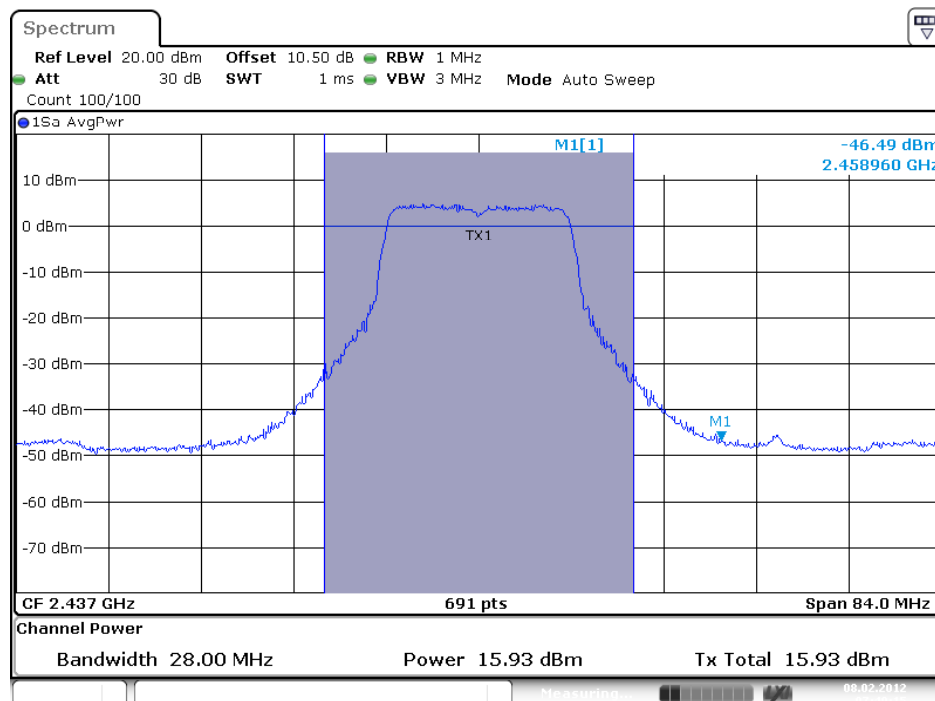
**Conducted Output Power Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 2437 MHz / Mode 14 (1TX, 2RX)**



Conducted Output Power Plot on Configuration IEEE 802.11b / Chain 1 / 2412 MHz/ Mode 14 (1TX, 2RX)



Conducted Output Power Plot on Configuration IEEE 802.11g / Chain 1 / 2437 MHz/ Mode 14 (1TX, 2RX)



<b>Temperature</b>	25°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Benson Peng	<b>Configurations</b>	IEEE 802.11n
<b>Test Date</b>	Feb. 08, 2012	<b>Test Mode</b>	Mode 15

**Configuration IEEE 802.11n MCS0 20MHz / Chain 1 (1TX, 2RX)**

Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	21.70	25.00	Complies
157	5785 MHz	21.89	25.00	Complies
165	5825 MHz	22.30	25.00	Complies

**Configuration IEEE 802.11n MCS0 40MHz / Chain 1(1TX, 2RX)**

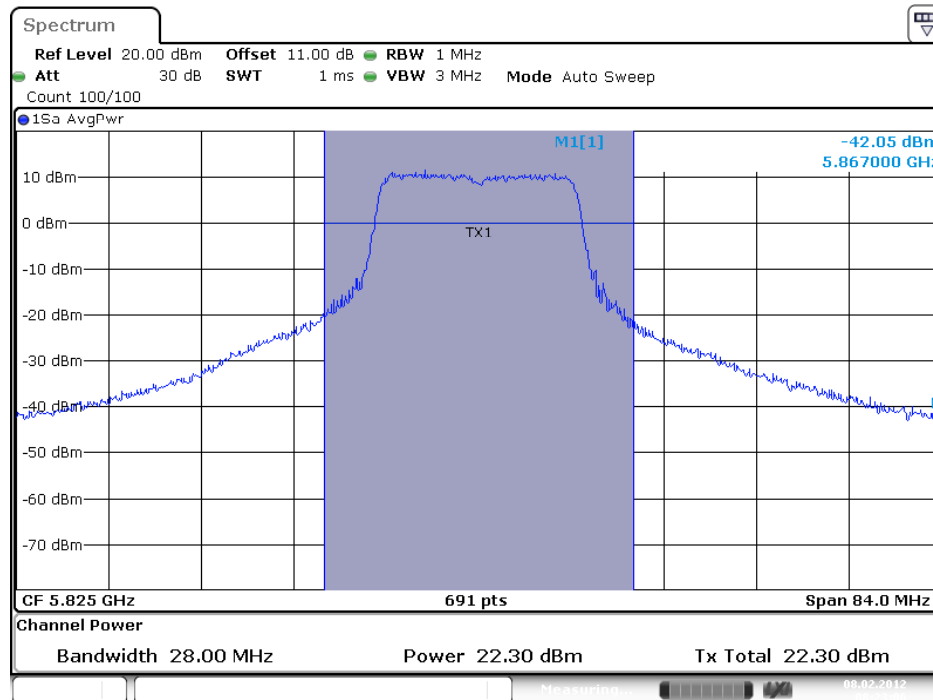
Channel	Frequency	Conducted Power (dBm)	Max. Limit (dBm)	Result
151	5755 MHz	22.09	25.00	Complies
159	5795 MHz	21.98	25.00	Complies

<b>Temperature</b>	25°C	<b>Humidity</b>	56%
<b>Test Engineer</b>	Satoshi Yang	<b>Configurations</b>	IEEE 802.11a
<b>Test Date</b>	Feb. 08, 2012	<b>Test Mode</b>	Mode 15

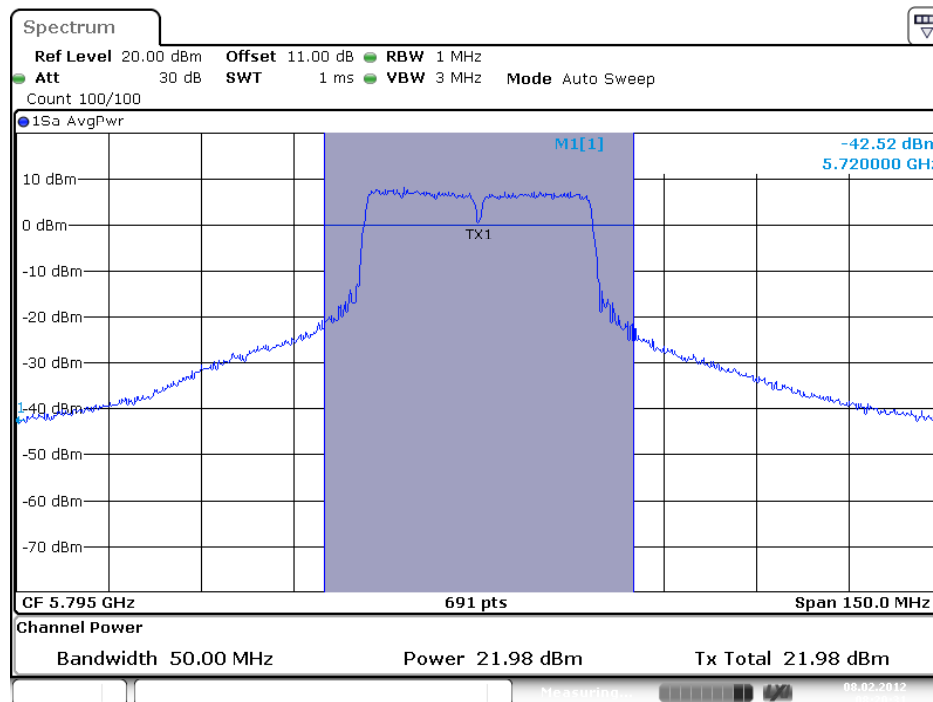
**Configuration IEEE 802.11a / Chain 1 (1TX, 2RX)**

Channel	Frequency	Conducted Peak Power (dBm)	Max. Limit (dBm)	Result
149	5745 MHz	21.98	25.00	Complies
157	5785 MHz	21.89	25.00	Complies
165	5825 MHz	21.97	25.00	Complies

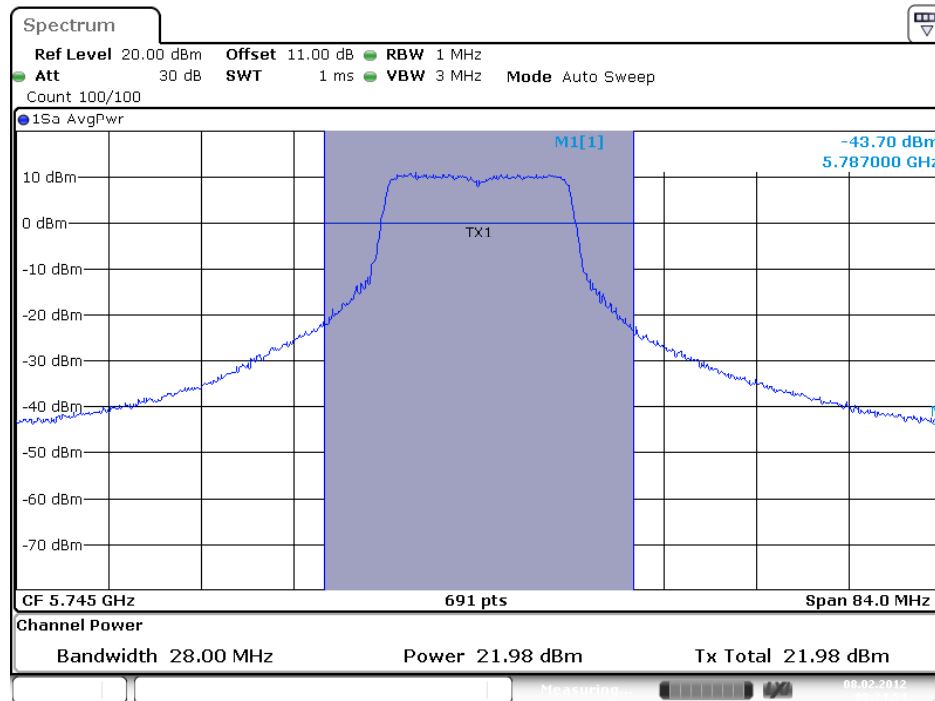
**Conducted Output Power Plot on Configuration IEEE 802.11n MCS0 20MHz / 5825 MHz/ Chain 1 / Mode 15 (1TX, 2RX)**



**Conducted Output Power Plot on Configuration IEEE 802.11n MCS0 40MHz / 5795 MHz/ Chain 1 / Mode 15 (1TX, 2RX)**



Conducted Output Power Plot on Configuration IEEE 802.11a / Chain 1 / 5745 MHz/ Mode 15 (1TX, 2RX)



Date: 8.FEB.2012 08:24:54



### 4.3. Power Spectral Density Measurement

#### 4.3.1. Limit

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

#### 4.3.2. Measuring Instruments and Setting

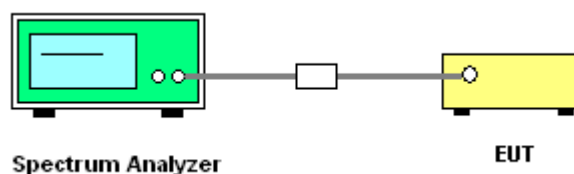
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

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

#### 4.3.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. Set RBW of spectrum analyzer to 3kHz and VBW to 30kHz. Set Detector to Peak, Trace to Max Hold.
3. Mark the frequency with maximum peak power as the center of the display of the spectrum.
4. Set the span to 30kHz and the sweep time to 10s and record the maximum peak value.
5. When measuring power spectral density with multiple antenna systems, add every result of the values by mathematic formula.

#### 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

Temperature	25°C	Humidity	57%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n
Test Date	Jan. 17, 2012	Test Mode	Mode 1

##### Configuration IEEE 802.11n MCS0 20MHz (2TX, 2RX)

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
1	2412 MHz	-11.23	-11.61	-8.41	7.14	Complies
6	2437 MHz	-0.47	-1.93	1.87	7.14	Complies
11	2462 MHz	-11.26	-11.56	-8.40	7.14	Complies

NOTE: Directional gain =  $+ /2=6.86\text{dBi} > 6\text{dBi}$ , so the power density limit =  $8-(6.86-6)=7.14\text{dBm}$ .

##### Configuration IEEE 802.11n MCS0 40MHz (2TX, 2RX)

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
3	2422 MHz	-14.11	-16.45	-12.11	7.14	Complies
6	2437 MHz	-11.56	-10.81	-8.16	7.14	Complies
9	2452 MHz	-13.13	-14.40	-10.71	7.14	Complies

NOTE: Directional gain =  $+ /2=6.86\text{dBi} > 6\text{dBi}$ , so the power density limit =  $8-(6.86-6)=7.14\text{dBm}$ .

Temperature	25°C	Humidity	57%
Test Engineer	Sean Ku	Configurations	IEEE 802.11 a/b/g
Test Date	Jan. 17, 2012	Test Mode	Mode 1

**Configuration IEEE 802.11b / Chain 2 (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-3.43	8.00	Complies
6	2437 MHz	0.83	8.00	Complies
11	2462 MHz	-3.90	8.00	Complies

**Configuration IEEE 802.11g / Chain 1+ Chain 2 (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
1	2412 MHz	-8.25	-9.47	-5.81	7.14	Complies
6	2437 MHz	-0.91	0.29	2.74	7.14	Complies
11	2462 MHz	-9.38	-9.89	-6.62	7.14	Complies

NOTE: Directional gain =  $+ / 2 = 6.86\text{dBi} > 6\text{dBi}$ , so the power density limit =  $8 - (6.86 - 6) = 7.14\text{dBm}$ .

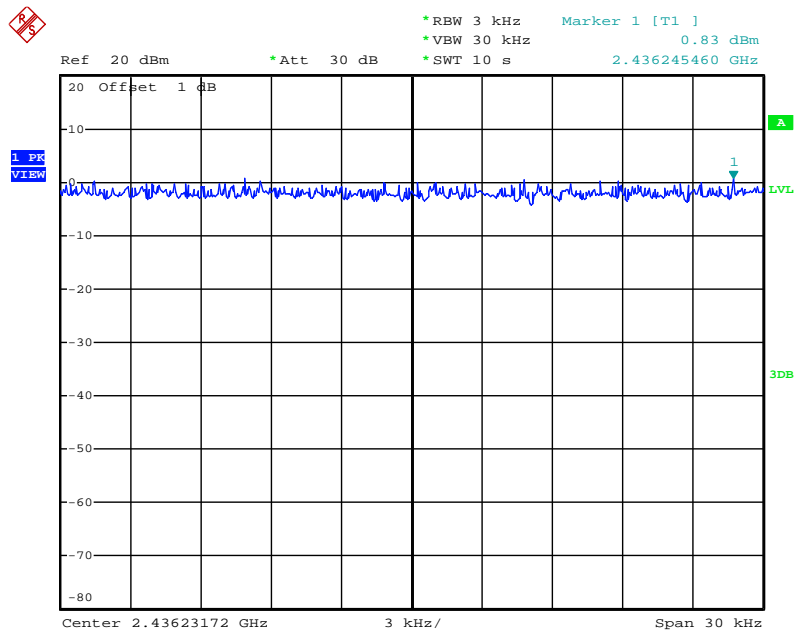
NOTE: All the test values were listed in the report.

For plots, only the channel with maximum results was shown.



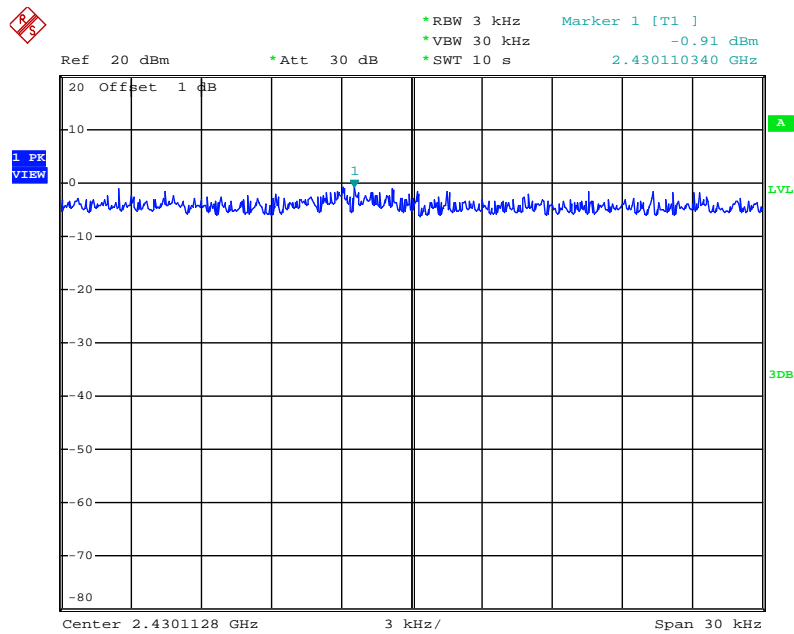


### Power Density Plot on Configuration IEEE 802.11b / Chain 2 / 2437 MHz / Mode 1



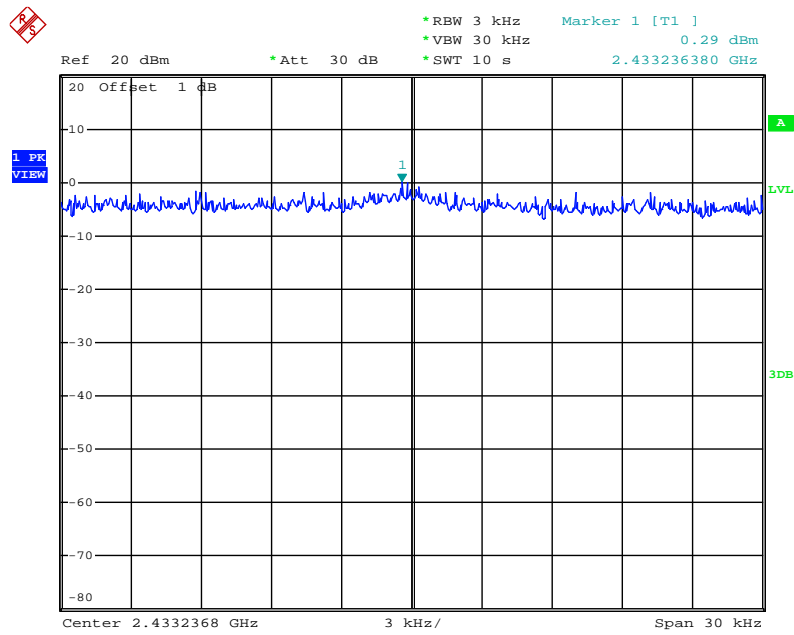
Date: 8.DEC.2011 21:43:31

### Power Density Plot on Configuration IEEE 802.11g / Chain 1 / 2437 MHz / Mode 1



Date: 9.JAN.2012 17:38:04

### Power Density Plot on Configuration IEEE 802.11g/ Chain 2 / 2437 MHz / Mode 1



Date: 9.JAN.2012 17:36:26

Temperature	25°C	Humidity	57%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n
Test Date	Jan. 17, 2012	Test Mode	Mode 2

**Configuration IEEE 802.11n MCS0 20MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
1	2412 MHz	-7.36	-6.73	-4.02	6.73	Complies
6	2437 MHz	-1.83	-2.16	1.02	6.73	Complies
11	2462 MHz	-6.53	-8.12	-4.24	6.73	Complies

NOTE: Directional gain =  $+ / 2 = 7.27\text{dBi} > 6\text{dBi}$ , so the power density limit =  $8 - (7.27 - 6) = 6.73\text{dBm}$ .

**Configuration IEEE 802.11n MCS0 40MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
3	2422 MHz	-11.35	-11.22	-8.27	6.73	Complies
6	2437 MHz	-6.47	-6.56	-3.50	6.73	Complies
9	2452 MHz	-13.65	-11.83	-9.64	6.73	Complies

NOTE: Directional gain =  $+ / 2 = 7.27\text{dBi} > 6\text{dBi}$ , so the power density limit =  $8 - (7.27 - 6) = 6.73\text{dBm}$ .



Temperature	25°C	Humidity	57%
Test Engineer	Sean Ku	Configurations	IEEE 802.11b/g
Test Date	Jan. 17, 2012	Test Mode	Mode 2

**Configuration IEEE 802.11b / Chain 1 (1TX, 2RX)**

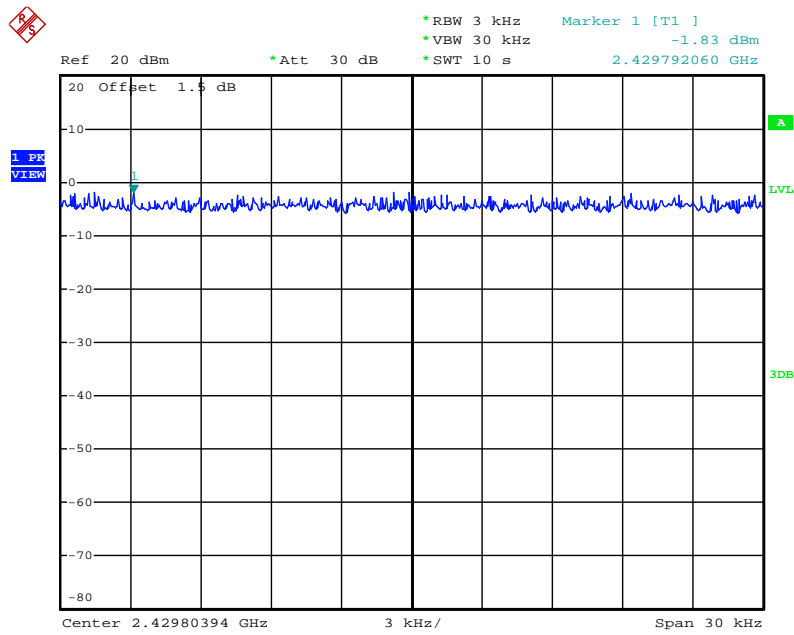
Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-1.80	8.00	Complies
6	2437 MHz	-2.47	8.00	Complies
11	2462 MHz	-1.26	8.00	Complies

**Configuration IEEE 802.11g / Chain 1+ Chain 2 (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
1	2412 MHz	-8.16	-6.84	-4.44	6.73	Complies
6	2437 MHz	-2.15	-1.21	1.36	6.73	Complies
11	2462 MHz	-4.86	-4.55	-1.69	6.73	Complies

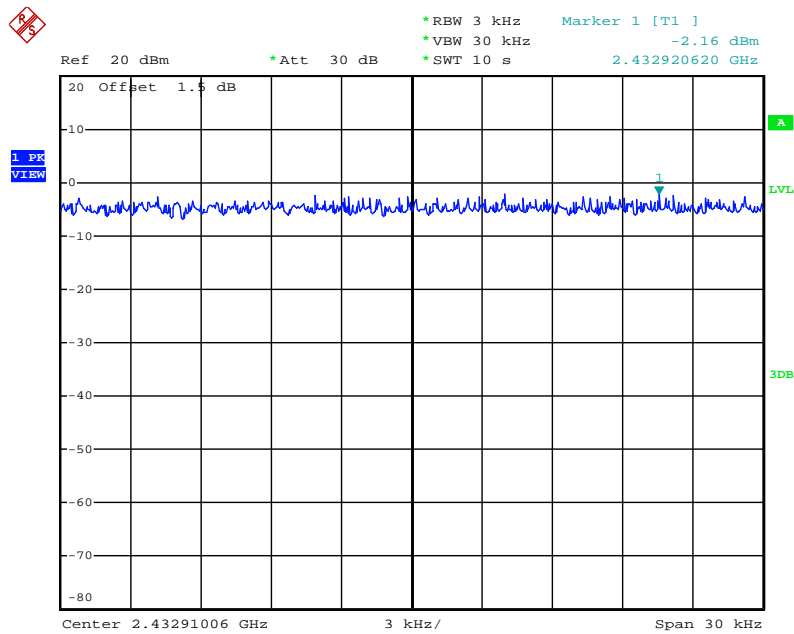
NOTE: Directional gain =  $+ / 2 = 7.27\text{dBi} > 6\text{dBi}$ , so the power density limit =  $8 - (7.27 - 6) = 6.73\text{dBm}$ .

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 2437 MHz / Mode 2 (2TX, 2RX)



Date: 17.JAN.2012 11:39:39

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 2437 MHz / Mode 2 (2TX, 2RX)

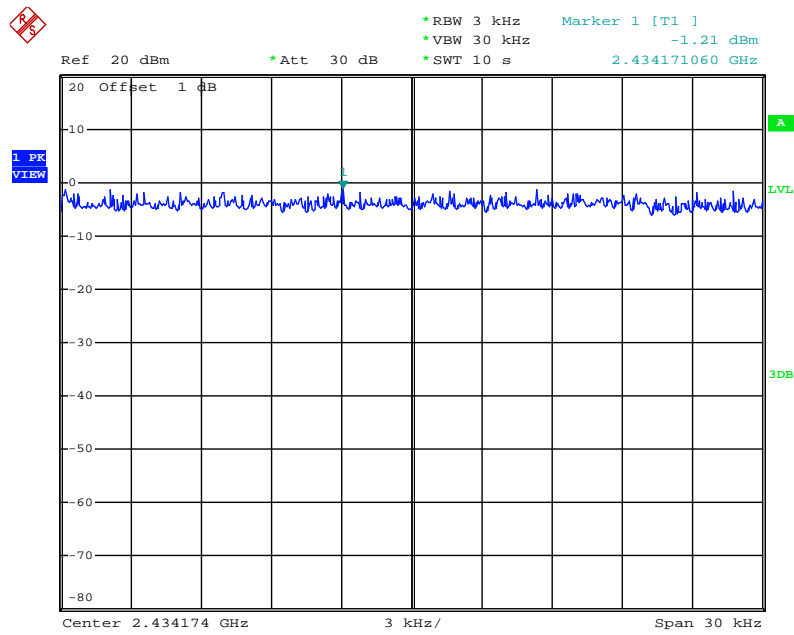


Date: 17.JAN.2012 12:00:04





Power Density Plot on Configuration IEEE 802.11g/ Chain 2 / 2437 MHz / Mode 2 (2TX, 2RX)



Date: 9.JAN.2012 19:37:39

Temperature	25°C	Humidity	57%
Test Engineer	Sean Ku	Configurations	IEEE 802.11n
Test Date	Jan. 17, 2012	Test Mode	Mode 3

**E 802.11n MCS0 20MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
149	5745 MHz	-6.55	-7.66	-4.06	4.42	Complies
157	5785 MHz	-6.31	-7.91	-4.03	4.42	Complies
165	5825 MHz	-6.99	-7.09	-4.03	4.42	Complies

NOTE: Directional gain =  $+ / 2 = 9.58\text{dBi} > 6\text{dBi}$ , so the power density limit =  $8 - (9.58 - 6) = 4.42\text{dBm}$ .

**Configuration IEEE 802.11n MCS0 40MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
151	5755 MHz	-9.31	-8.56	-5.91	4.42	Complies
159	5795 MHz	-10.85	-8.26	-6.35	4.42	Complies

NOTE: Directional gain =  $+ / 2 = 9.58\text{dBi} > 6\text{dBi}$ , so the power density limit =  $8 - (9.58 - 6) = 4.42\text{dBm}$ .

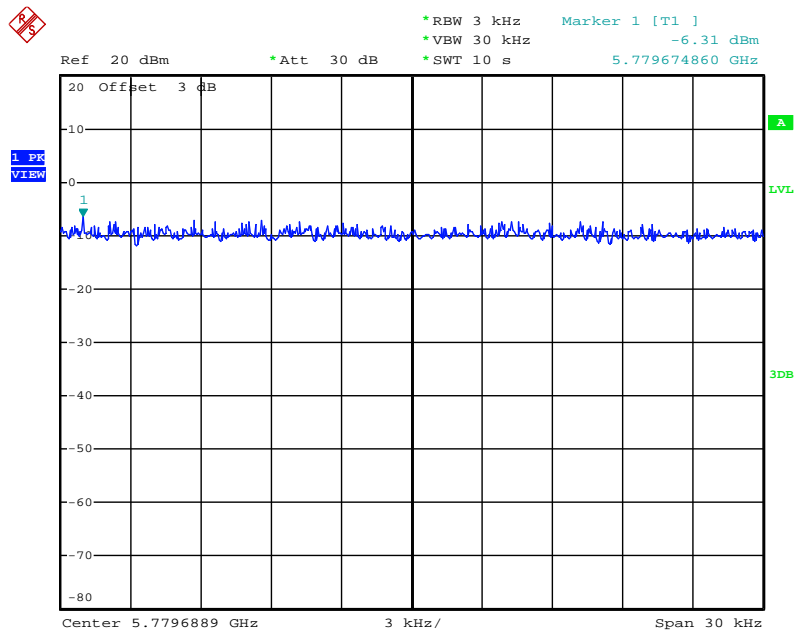
Temperature	25°C	Humidity	57%
Test Engineer	Sean Ku	Configurations	IEEE 802.11a
Test Date	Jan. 17, 2012	Test Mode	Mode 3

**Configuration IEEE 802.11a / Chain 1 + Chain 2 (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
149	5745 MHz	-2.96	-3.02	0.02	4.42	Complies
157	5785 MHz	-4.23	-2.06	0.00	4.42	Complies
165	5825 MHz	-3.22	-3.50	-0.35	4.42	Complies

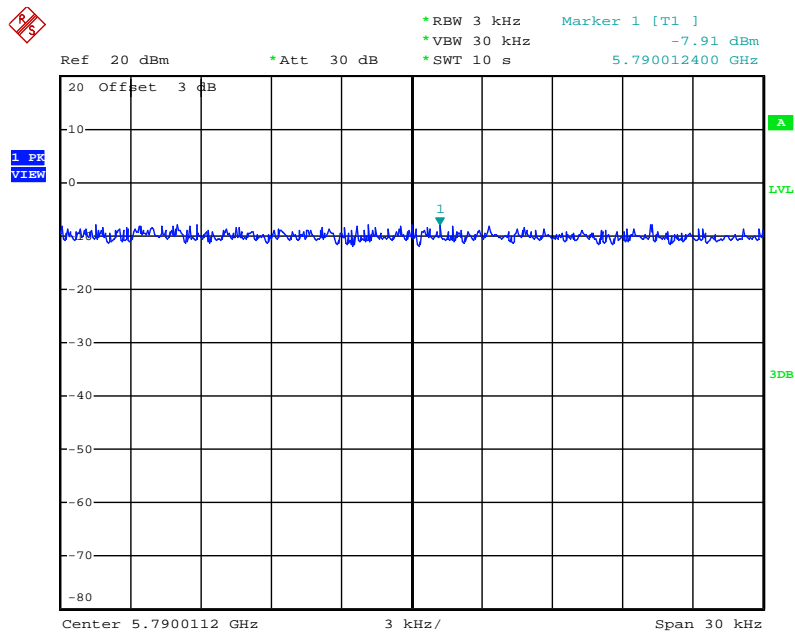
NOTE: Directional gain =  $+ / 2 = 9.58\text{dBi} > 6\text{dBi}$ , so the power density limit =  $8 - (9.58 - 6) = 4.42\text{dBm}$ .

## Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5785 MHz / Mode 3 (2TX, 2RX)



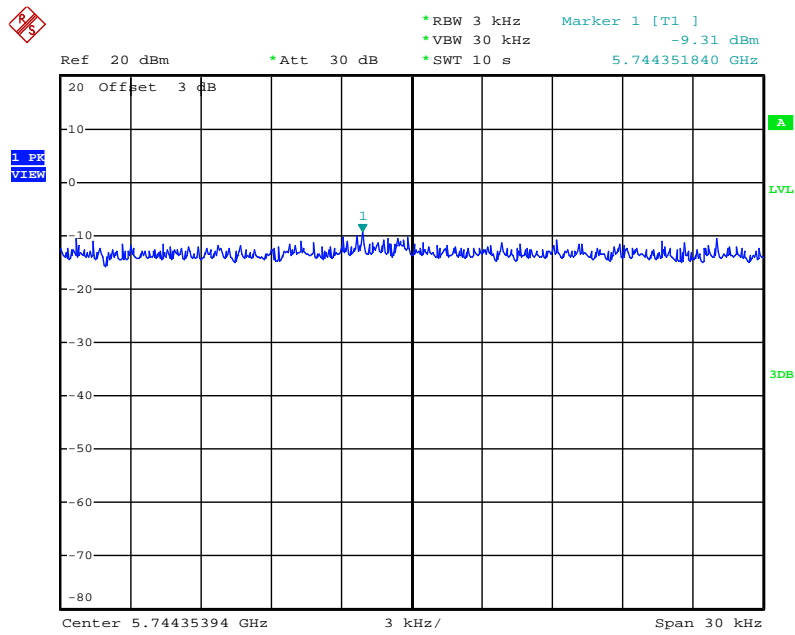
Date: 18.JAN.2012 11:24:37

## Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 5785 MHz / Mode 3 (2TX, 2RX)



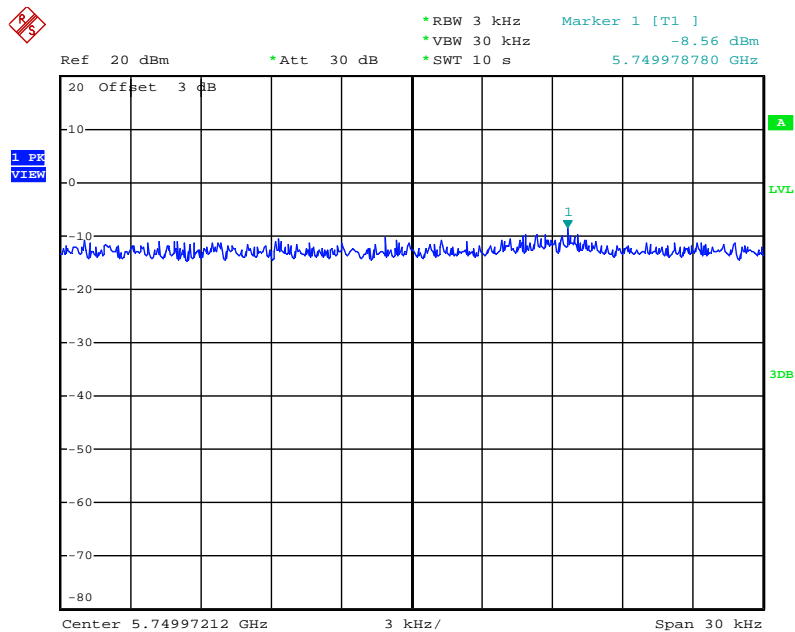
Date: 18.JAN.2012 11:30:26

## Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5755 MHz / Mode 3 (2TX, 2RX)



Date: 18.JAN.2012 11:43:38

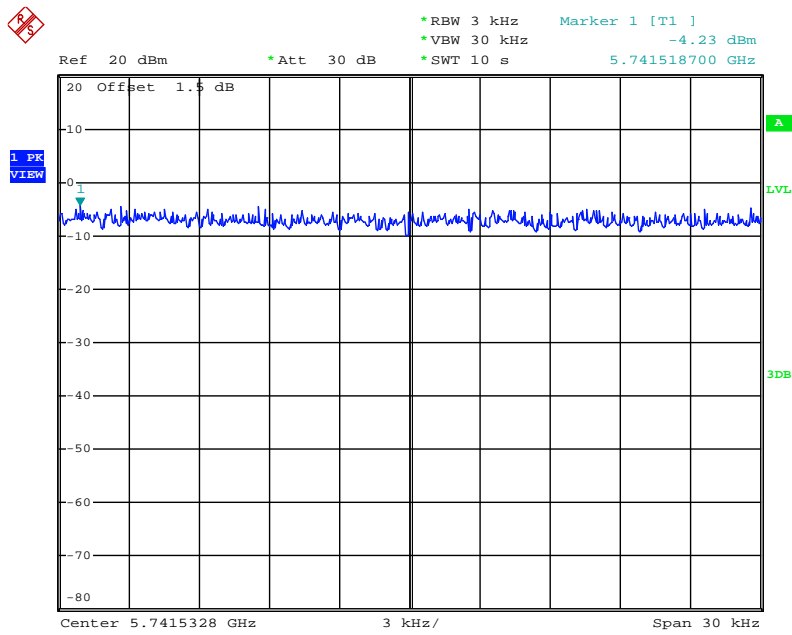
## Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 5755 MHz / Mode 3 (2TX, 2RX)



Date: 18.JAN.2012 11:37:59

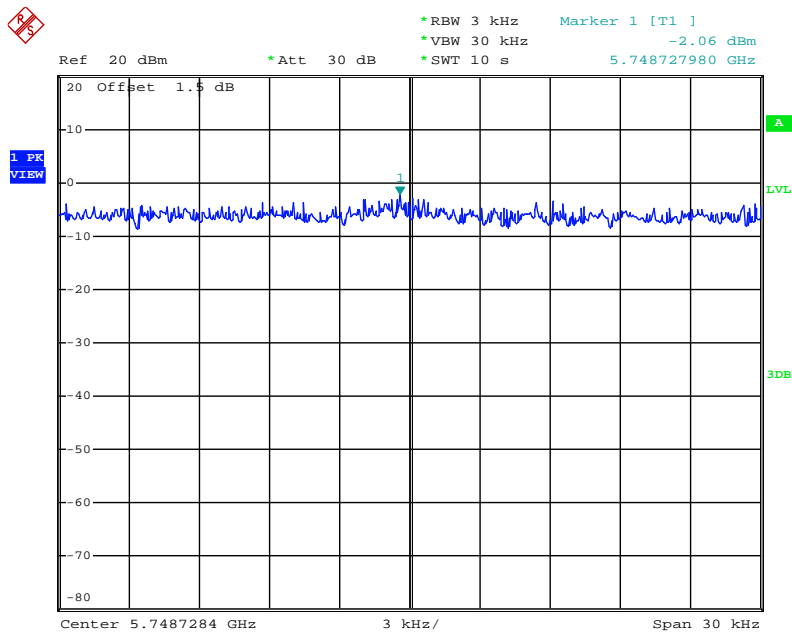


Power Density Plot on Configuration IEEE 802.11a / Chain 1 / 5785 MHz / Mode 3 (2TX, 2RX)



Date: 9.JAN.2012 21:27:50

Power Density Plot on Configuration IEEE 802.11a / Chain 2 / 5785 MHz / Mode 3 (2TX, 2RX)



Date: 9.JAN.2012 21:26:49

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n
Test Date	Feb. 01, 2012	Test Mode	Mode 4

**Configuration IEEE 802.11n MCS0 20MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
1	2412 MHz	-10.44	-11.55	-7.95	2.49	Complies
6	2437 MHz	-4.04	-4.75	-1.37	2.49	Complies
11	2462 MHz	-12.20	-11.90	-9.04	2.49	Complies

NOTE: Directional gain = 8.5dBi + 10log(2) = 10.51dBi > 6dBi, so the Power Spectral Density limit = 8 - (10.51 - 6) = 2.49dBm.

**Configuration IEEE 802.11n MCS0 40MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
3	2422 MHz	-17.17	-17.52	-14.33	2.49	Complies
6	2437 MHz	-14.44	-14.94	-11.67	2.49	Complies
9	2452 MHz	-18.86	-18.81	-15.82	2.49	Complies

NOTE: Directional gain = 8.5dBi + 10log(2) = 10.51dBi > 6dBi, so the Power Spectral Density limit = 8 - (10.51 - 6) = 2.49dBm.

**Configuration IEEE 802.11n MCS8 20MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
1	2412 MHz	-8.25	-10.29	-6.14	5.50	Complies
6	2437 MHz	-2.73	-3.67	-0.16	5.50	Complies
11	2462 MHz	-12.12	-11.71	-8.90	5.50	Complies

**Configuration IEEE 802.11n MCS8 40MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
3	2422 MHz	-15.12	-16.35	-12.68	5.50	Complies
6	2437 MHz	-12.77	-12.33	-9.53	5.50	Complies
9	2452 MHz	-17.70	-17.79	-14.73	5.50	Complies

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11 b/g
Test Date	Jan. 10, 2012	Test Mode	Mode 4

**Configuration IEEE 802.11b / Chain 2 (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	0.15	5.50	Complies
6	2437 MHz	-0.11	5.50	Complies
11	2462 MHz	-0.01	5.50	Complies

**Configuration IEEE 802.11g / Chain 1+ Chain 2 (2TX, 2RX)**

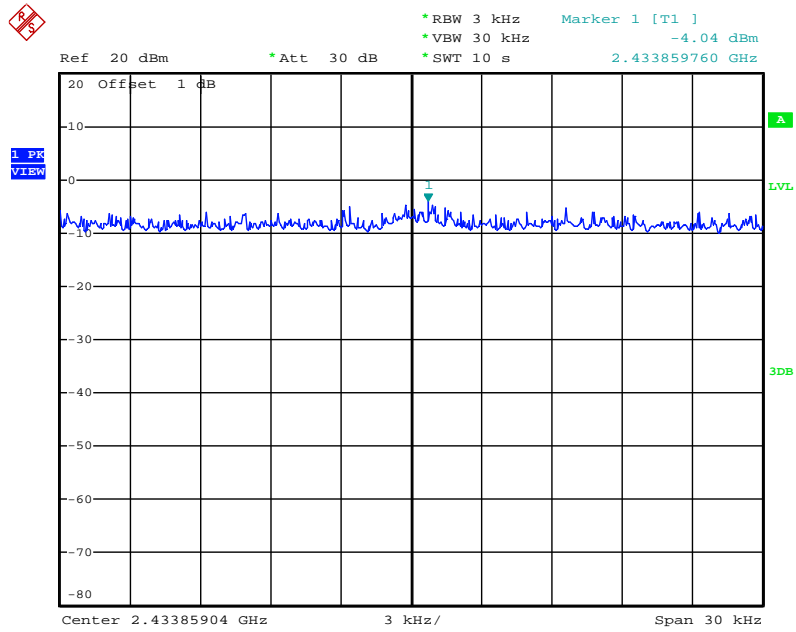
Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
1	2412 MHz	-10.67	-9.43	-7.00	2.49	Complies
6	2437 MHz	-4.28	-3.43	-0.82	2.49	Complies
11	2462 MHz	-10.81	-8.49	-6.49	2.49	Complies

NOTE 1: Directional gain = 8.5dBi + 10log(2)=11.51dBi > 6dBi, so the Power Spectral Density limit = 8-(11.51-6)=2.49dBm.

NOTE 2: All the test values were listed in the report.

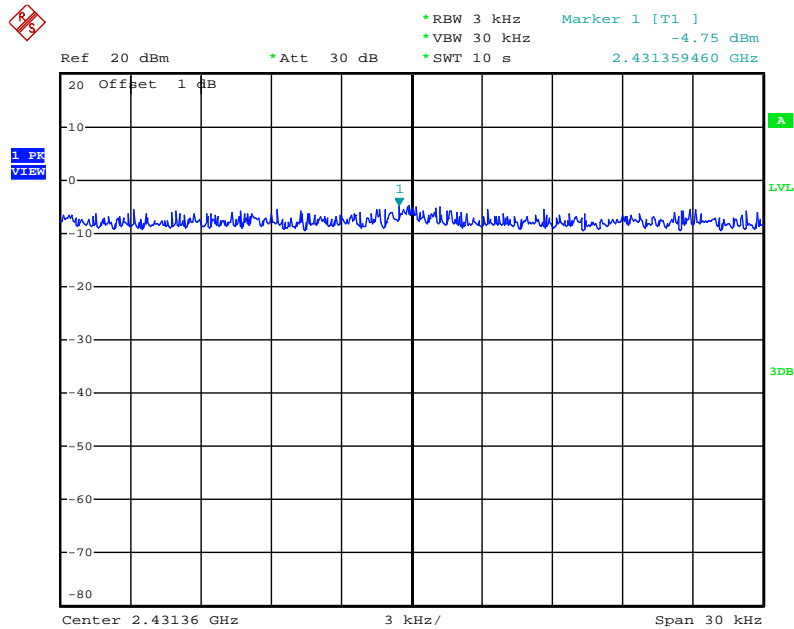
For plots, only the channel with maximum results was shown.

**Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 2437 MHz / Mode 4 (2TX, 2RX)**



Date: 1.FEB.2012 20:43:44

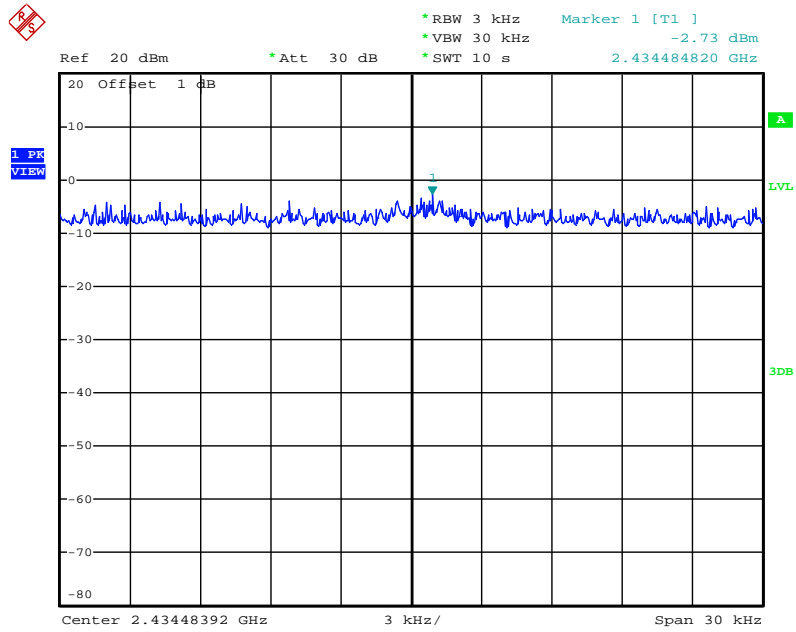
**Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 2437 MHz / Mode 4 (2TX, 2RX)**



Date: 1.FEB.2012 20:42:06

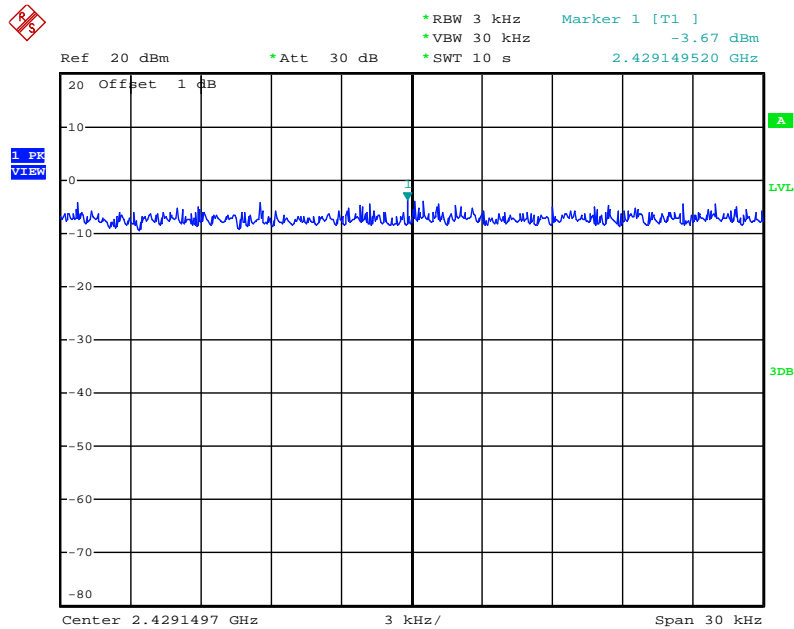


## Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 / 2437 MHz / Mode 4 (2TX, 2RX)



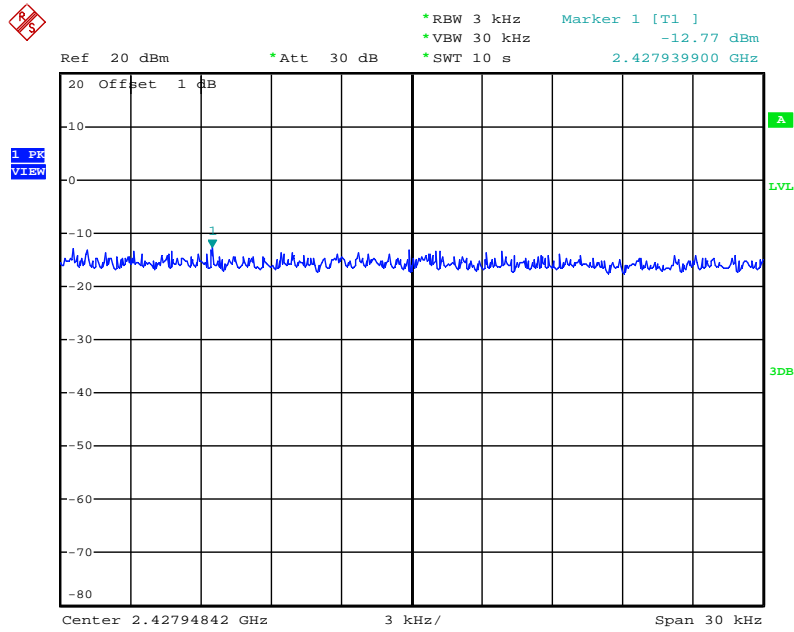
Date: 10.JAN.2012 15:01:36

## Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 2 / 2437 MHz / Mode 4 (2TX, 2RX)



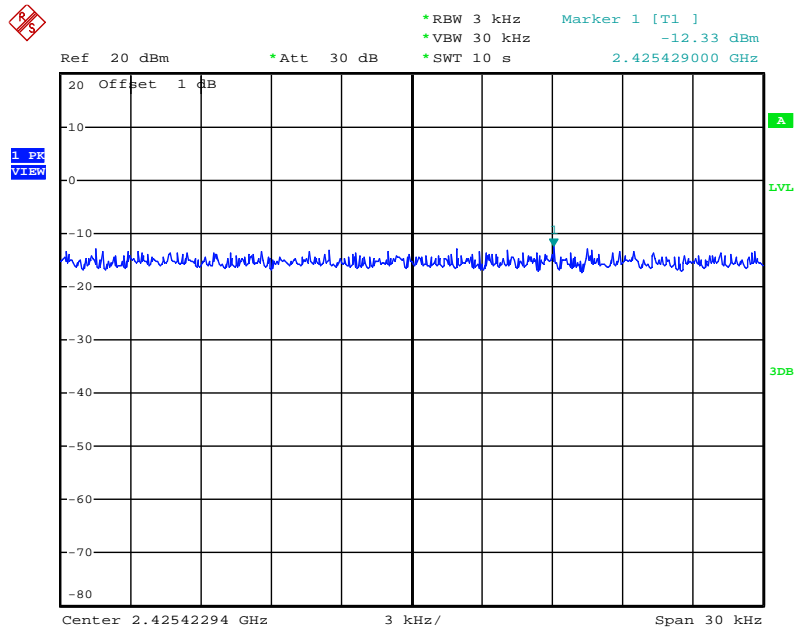
Date: 10.JAN.2012 14:54:53

**Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 / 2437 MHz / Mode 4 (2TX, 2RX)**



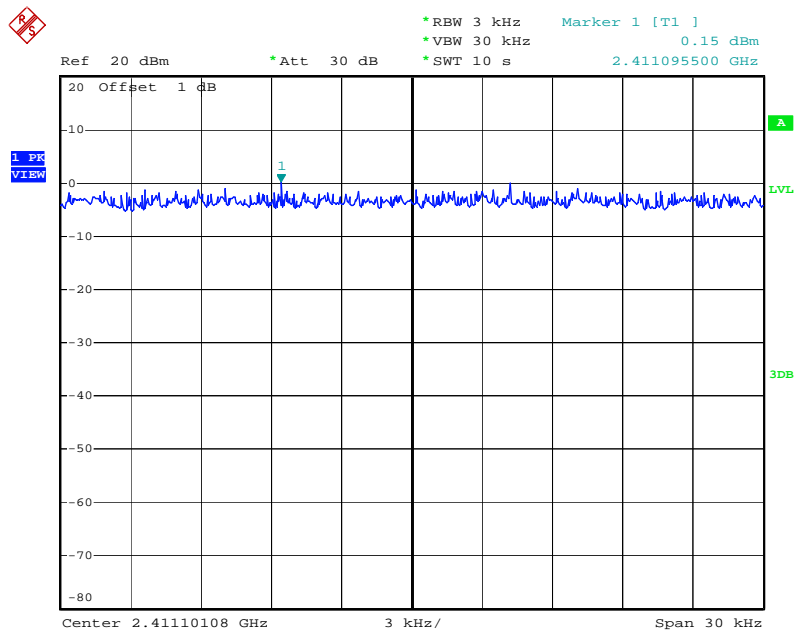
Date: 10.JAN.2012 14:59:16

**Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 2 / 2437 MHz / Mode 4 (2TX, 2RX)**



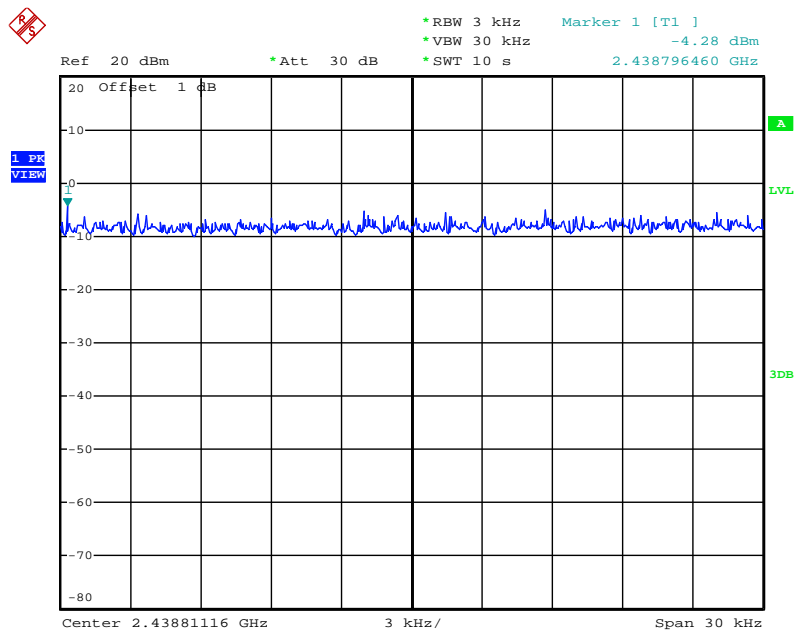
Date: 10.JAN.2012 14:57:11

### Power Density Plot on Configuration IEEE 802.11b / Chain 2 / 2412 MHz / Mode 4 (1TX, 2RX)



Date: 14.DEC.2011 15:25:21

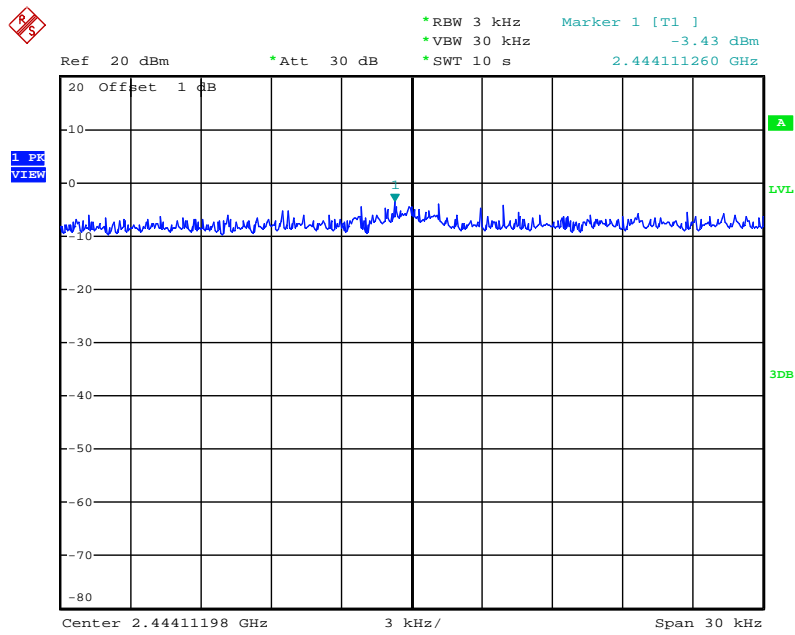
### Power Density Plot on Configuration IEEE 802.11g / Chain 1 / 2437 MHz / Mode 4 (2TX, 2RX)



Date: 10.JAN.2012 15:08:22



Power Density Plot on Configuration IEEE 802.11g/ Chain 2 / 2437 MHz / Mode 1 (2TX, 2RX)



Date: 10.JAN.2012 14:47:35

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n
Test Date	Feb. 03, 2012	Test Mode	Mode 5

**Configuration IEEE 802.11n MCS0 20MHz (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-8.75	5.50	Complies
6	2437 MHz	-4.77	5.50	Complies
11	2462 MHz	-7.25	5.50	Complies

**Configuration IEEE 802.11n MCS0 40MHz (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
3	2422 MHz	-9.93	5.50	Complies
6	2437 MHz	-10.52	5.50	Complies
9	2452 MHz	-13.45	5.50	Complies

**Configuration IEEE 802.11n MCS0 20MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
1	2412 MHz	-10.56	-11.47	-7.98	2.49	Complies
6	2437 MHz	-7.72	-7.96	-4.83	2.49	Complies
11	2462 MHz	-9.94	-10.76	-7.32	2.49	Complies

NOTE: Directional gain = 8.5dBi + 10log(2)=10.51dBi > 6dBi, so the Power Spectral Density limit = 8-(10.51-6)=2.49dBm.

**Configuration IEEE 802.11n MCS0 40MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
3	2422 MHz	-18.82	-19.70	-16.23	2.49	Complies
6	2437 MHz	-12.42	-13.06	-9.72	2.49	Complies
9	2452 MHz	-19.35	-19.28	-16.30	2.49	Complies

NOTE: Directional gain = 8.5dBi + 10log(2)=10.51dBi > 6dBi, so the Power Spectral Density limit = 8-(10.51-6)=2.49dBm.

**Configuration IEEE 802.11n MCS8 20MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
1	2412 MHz	-9.90	-9.75	-6.81	5.50	Complies
6	2437 MHz	-5.63	-5.42	-2.51	5.50	Complies
11	2462 MHz	-8.51	-9.85	-6.12	5.50	Complies

**Configuration IEEE 802.11n MCS8 40MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
3	2422 MHz	-16.98	-15.79	-13.33	5.50	Complies
6	2437 MHz	-9.13	-10.36	-6.69	5.50	Complies
9	2452 MHz	-14.18	-15.12	-11.61	5.50	Complies

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11b/g
Test Date	Feb. 03, 2012	Test Mode	Mode 5

**Configuration IEEE 802.11b / Chain 1 (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-1.34	5.50	Complies
6	2437 MHz	1.73	5.50	Complies
11	2462 MHz	-0.59	5.50	Complies

**Configuration IEEE 802.11g / Chain 1 (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-7.16	5.50	Complies
6	2437 MHz	-3.00	5.50	Complies
11	2462 MHz	-7.05	5.50	Complies

**Configuration IEEE 802.11g / Chain 1 + Chain 2 (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
1	2412 MHz	-8.88	-8.57	-5.71	2.49	Complies
6	2437 MHz	-9.59	-7.27	-5.27	2.49	Complies
11	2462 MHz	-10.42	-10.82	-7.61	2.49	Complies

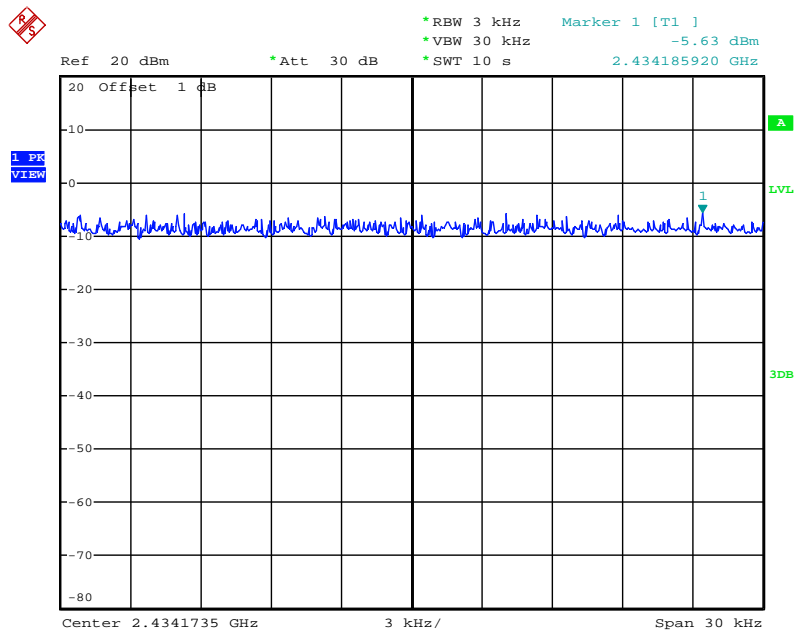
NOTE: Directional gain = 8.5dBi + 10log(2) = 11.51dBi > 6dBi, so the Power Spectral Density limit = 8 - (11.51 - 6) = 2.49dBm.





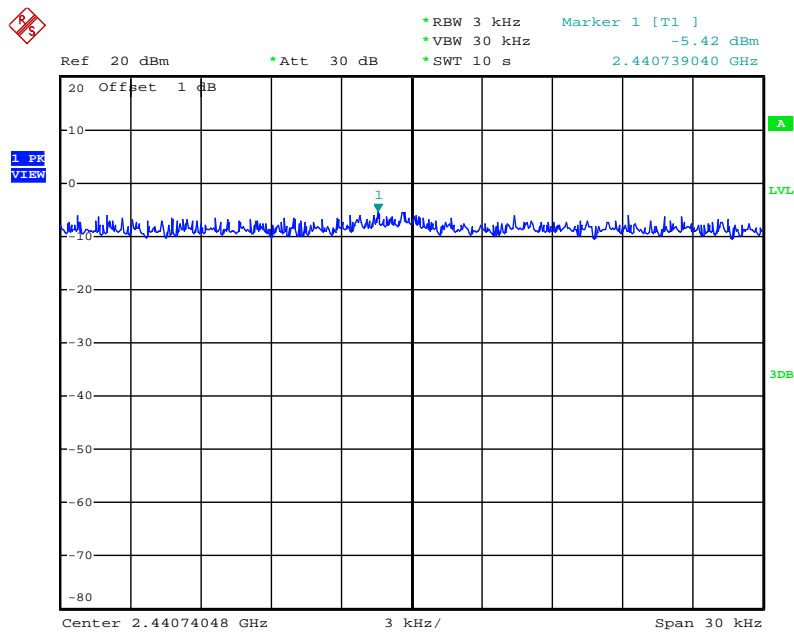


**Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 / 2437 MHz / Mode 5 (2TX, 2RX)**



Date: 10.JAN.2012 15:58:52

**Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 2 / 2437 MHz / Mode 5 (2TX, 2RX)**



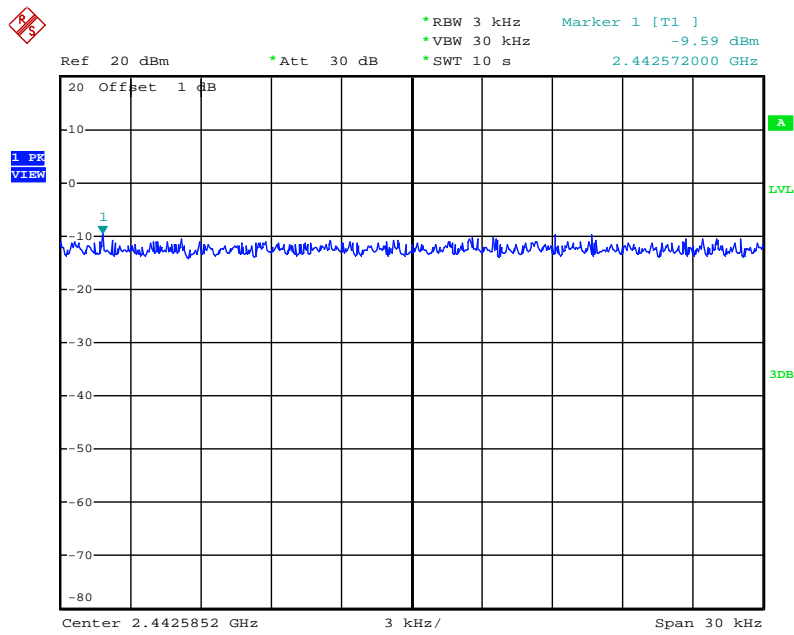
Date: 10.JAN.2012 15:42:29





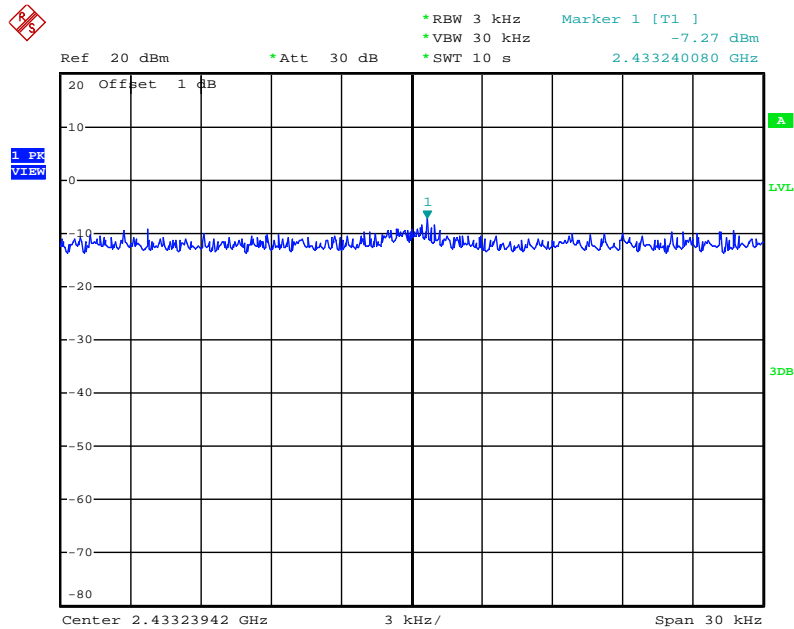


### Power Density Plot on Configuration IEEE 802.11g/ Chain 1 / 2437 MHz / Mode 5 (2TX, 2RX)



Date: 10.JAN.2012 15:53:29

### Power Density Plot on Configuration IEEE 802.11g/ Chain 2 / 2437 MHz / Mode 5 (2TX, 2RX)



Date: 10.JAN.2012 15:47:48

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11n
Test Date	Feb. 03, 2012	Test Mode	Mode 6

**Configuration IEEE 802.11n MCS0 20MHz (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-3.79	5.00	Complies
157	5785 MHz	-4.65	5.00	Complies
165	5825 MHz	-3.33	5.00	Complies

**Configuration IEEE 802.11n MCS0 40MHz (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
151	5755 MHz	-9.02	5.00	Complies
159	5795 MHz	-8.25	5.00	Complies

**Configuration IEEE 802.11n MCS0 20MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
149	5745 MHz	-7.66	-8.28	-4.95	1.99	Complies
157	5785 MHz	-7.58	-7.03	-4.29	1.99	Complies
165	5825 MHz	-7.75	-6.88	-4.28	1.99	Complies

NOTE: Directional gain = 9dBi + 10log(2) = 12.01 dBi > 6dBi, so the Power Spectral Density limit = 8 - (12.01 - 6) = 1.99Bm.

**Configuration IEEE 802.11n MCS0 40MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
151	5755 MHz	-10.99	-10.46	-7.71	1.99	Complies
159	5795 MHz	-10.26	-10.08	-7.16	1.99	Complies

NOTE: Directional gain = 9dBi + 10log(2) = 12.01 dBi > 6dBi, so the Power Spectral Density limit = 8 - (12.01 - 6) = 1.99Bm.

**Configuration IEEE 802.11n MCS8 20MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
149	5745 MHz	-9.29	-9.36	-6.31	5.00	Complies
157	5785 MHz	-8.32	-8.24	-5.27	5.00	Complies
165	5825 MHz	-8.19	-5.80	-3.82	5.00	Complies

**Configuration IEEE 802.11n MCS8 40MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
151	5755 MHz	-12.01	-11.97	-8.98	5.00	Complies
159	5795 MHz	-12.16	-10.35	-8.15	5.00	Complies

Temperature	25°C	Humidity	56%
Test Engineer	Allen Liu	Configurations	IEEE 802.11a
Test Date	Feb. 03, 2012	Test Mode	Mode 6

**Configuration IEEE 802.11a / Chain 1 (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
149	5745 MHz	-3.17	5.00	Complies
157	5785 MHz	-3.92	5.00	Complies
165	5825 MHz	-3.30	5.00	Complies

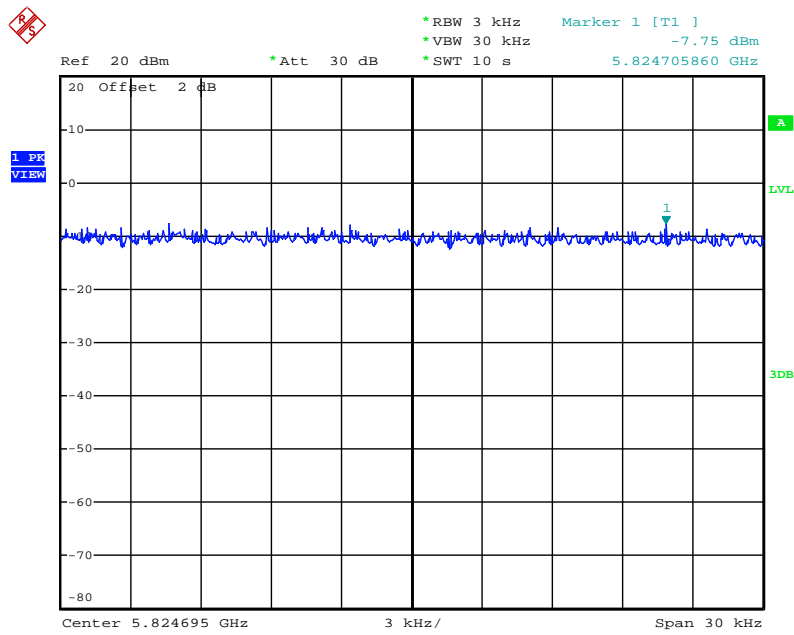
**Configuration IEEE 802.11a / Chain 1 + Chain 2 (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
149	5745 MHz	-7.81	-8.31	-5.04	1.99	Complies
157	5785 MHz	-7.57	-6.57	-4.03	1.99	Complies
165	5825 MHz	-5.29	-6.89	-3.01	1.99	Complies

NOTE: Directional gain =  $9\text{dBi} + 10\log(2) = 12.01\text{dBi} > 6\text{dBi}$ , so the Power Spectral Density limit  
 $= 8 - (12.01 - 6) = 1.99\text{Bm}$ .

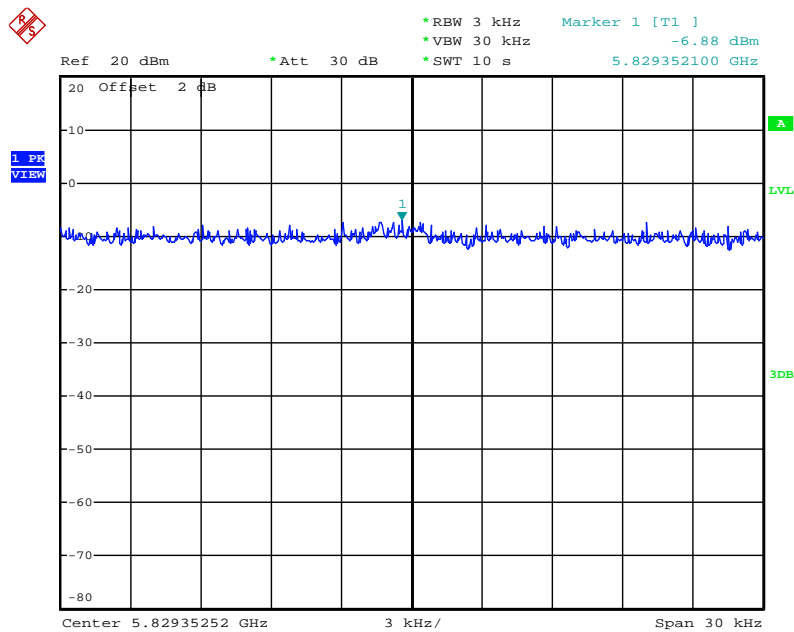


Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 5825 MHz / Mode 6 (2TX, 2RX)



Date: 1.FEB.2012 22:30:35

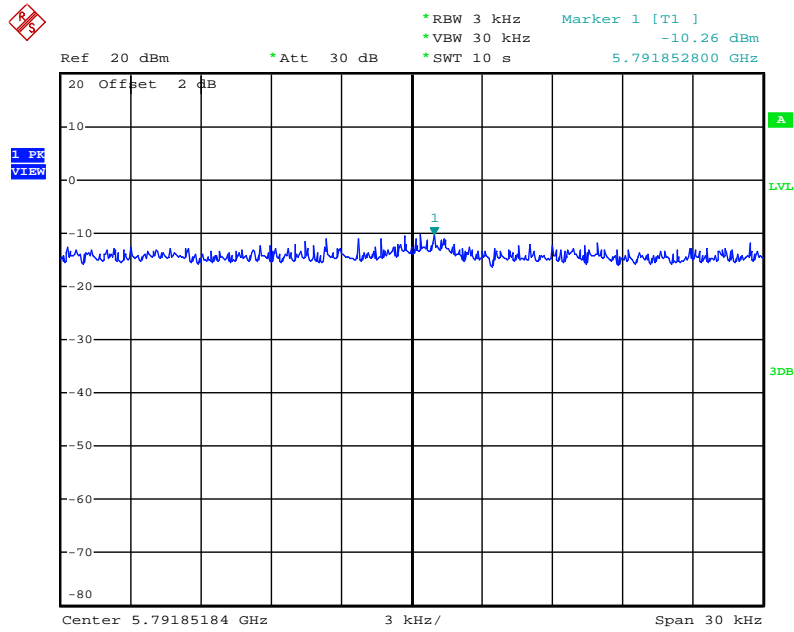
Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 5825 MHz / Mode 6 (2TX, 2RX)



Date: 1.FEB.2012 22:32:20

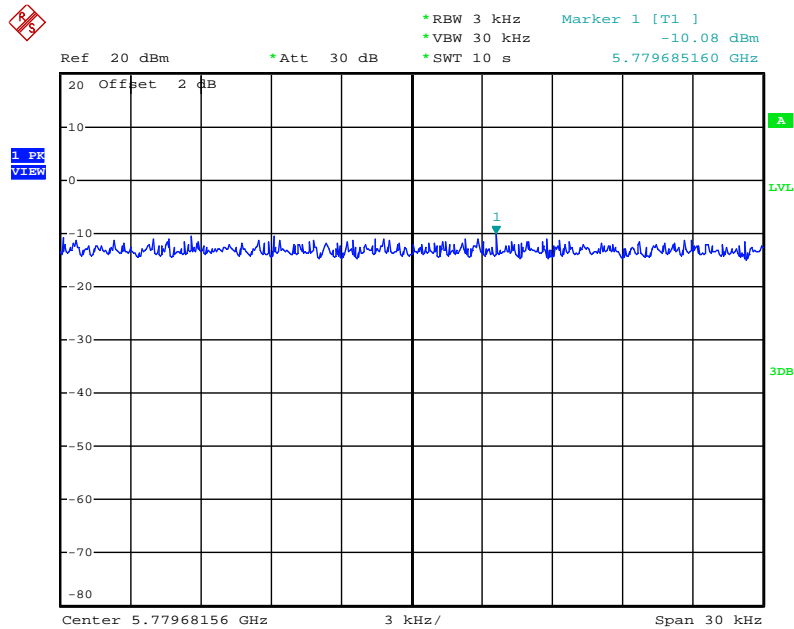


**Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5795 MHz / Mode 6 (2TX, 2RX)**



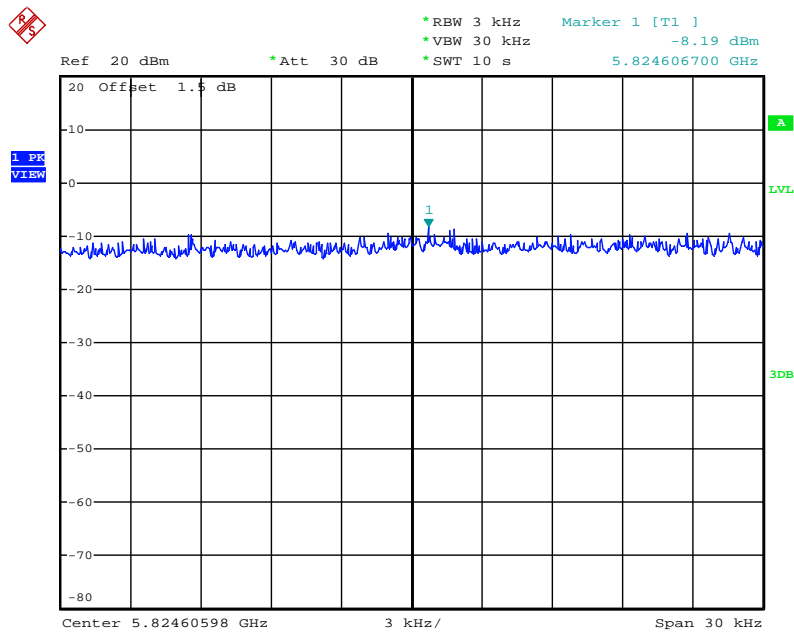
Date: 1.FEB.2012 22:40:42

**Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 5795 MHz / Mode 6 (2TX, 2RX)**



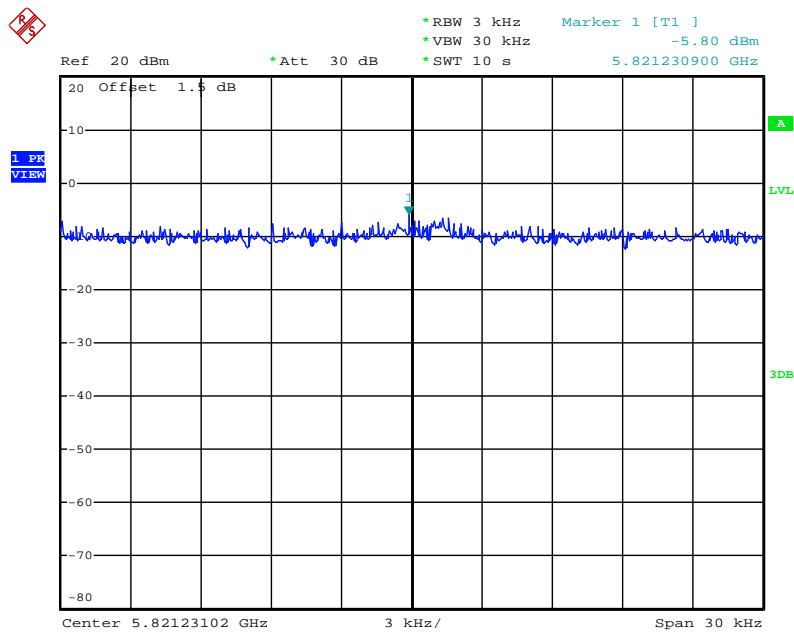
Date: 1.FEB.2012 22:42:25

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 1 / 5825 MHz / Mode 6 (2TX, 2RX)



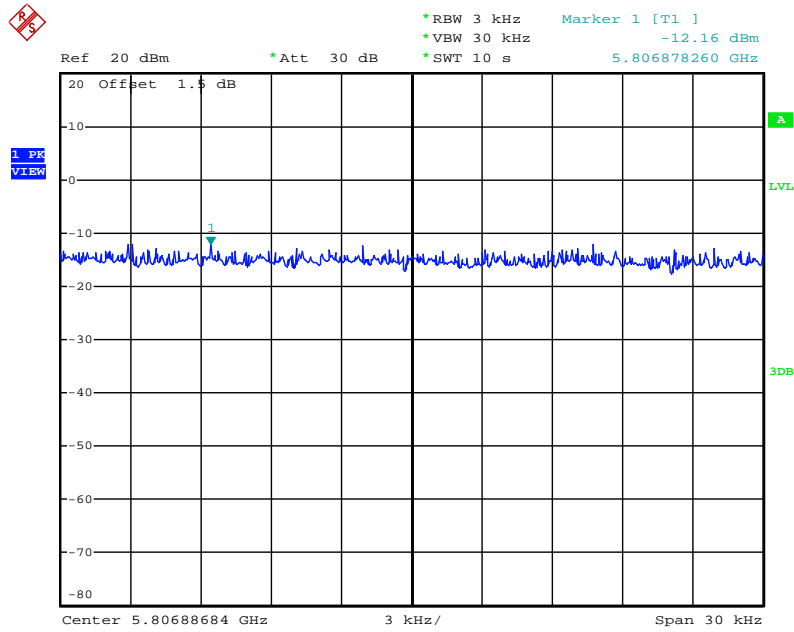
Date: 10.JAN.2012 17:49:00

Power Density Plot on Configuration IEEE 802.11n MCS8 20MHz / Chain 2 / 5825 MHz / Mode 6 (2TX, 2RX)



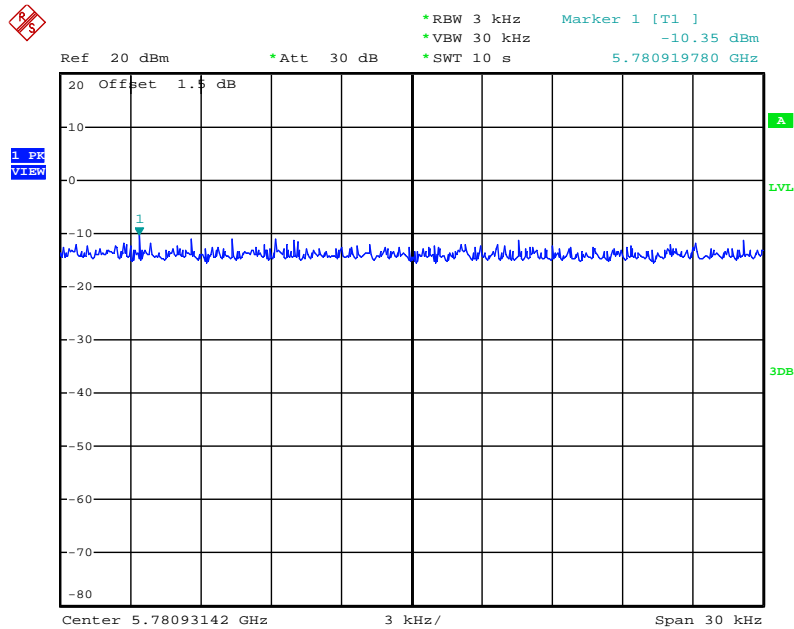
Date: 10.JAN.2012 17:50:42

**Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 1 / 5795 MHz / Mode 6 (2TX, 2RX)**



Date: 10.JAN.2012 17:56:21

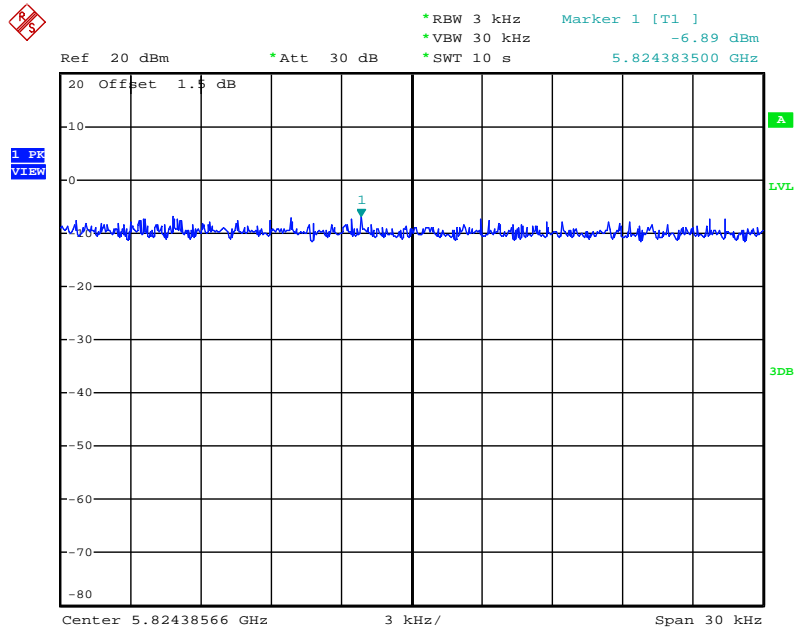
**Power Density Plot on Configuration IEEE 802.11n MCS8 40MHz / Chain 2 / 5795 MHz / Mode 6 (2TX, 2RX)**



Date: 10.JAN.2012 17:58:21



Power Density Plot on Configuration IEEE 802.11a / Chain 2 / 5825 MHz / Mode 6 (2TX, 2RX)



Date: 10.JAN.2012 17:25:43

Temperature	25°C	Humidity	57%
Test Engineer	Satoshi Yang	Configurations	IEEE 802.11n
Test Date	Feb. 07, 2012	Test Mode	Mode 7

**Configuration IEEE 802.11n MCS0 20MHz / Chain 2 (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-5.72	8.00	Complies
6	2437 MHz	-4.29	8.00	Complies
11	2462 MHz	-4.92	8.00	Complies

**Configuration IEEE 802.11n MCS0 40MHz / Chain 2 (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
3	2422 MHz	-10.56	8.00	Complies
6	2437 MHz	-7.83	8.00	Complies
9	2452 MHz	-11.04	8.00	Complies

**Configuration IEEE 802.11n MCS0 20MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
1	2412 MHz	-7.27	-6.69	-3.96	7.49	Complies
6	2437 MHz	-4.50	-3.18	-0.78	7.49	Complies
11	2462 MHz	-8.57	-6.78	-4.57	7.49	Complies

NOTE: Directional gain=3.5dBi + 10log(2)=6.51dBi > 6dBi, so the Power Spectral Density limit =8-(6.51-6)=7.49dBm.

**Configuration IEEE 802.11n MCS0 40MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
3	2422 MHz	-12.05	-12.08	-9.05	7.49	Complies
6	2437 MHz	-9.81	-7.87	-5.72	7.49	Complies
9	2452 MHz	-15.16	-14.78	-11.96	7.49	Complies

NOTE: Directional gain=3.5dBi + 10log(2)=6.51dBi > 6dBi, so the Power Spectral Density limit =8-(6.51-6)=7.49dBm.

Temperature	25°C	Humidity	57%
Test Engineer	Satoshi Yang	Configurations	IEEE 802.11b/g
Test Date	Feb. 07, 2012	Test Mode	Mode 7

**Configuration IEEE 802.11b / Chain 2 (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-1.39	8.00	Complies
6	2437 MHz	-1.28	8.00	Complies
11	2462 MHz	0.66	8.00	Complies

**Configuration IEEE 802.11g / Chain 2 (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-6.09	8.00	Complies
6	2437 MHz	-2.14	8.00	Complies
11	2462 MHz	-5.62	8.00	Complies

**Configuration IEEE 802.11g / Chain 1 + Chain 2 (2TX, 2RX)**

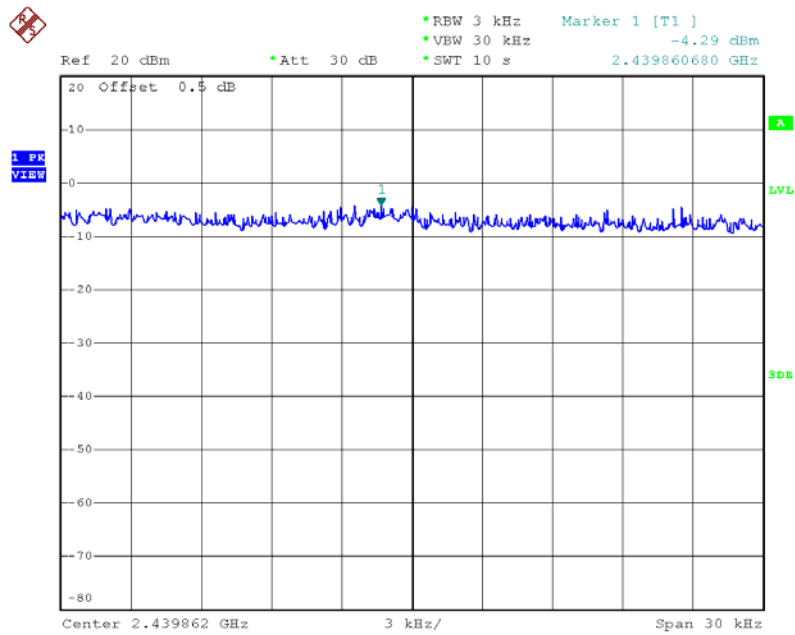
Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
1	2412 MHz	-6.25	-6.20	-3.21	7.49	Complies
6	2437 MHz	-3.55	-3.94	-0.73	7.49	Complies
11	2462 MHz	-5.88	-7.90	-3.76	7.49	Complies

NOTE 1: Directional gain = 3.5dBi + 10log(2)=6.51dBi > 6dBi, so the Power Spectral Density limit = 8-(6.51-6)=7.49dBm.

NOTE 2: All the test values were listed in the report.

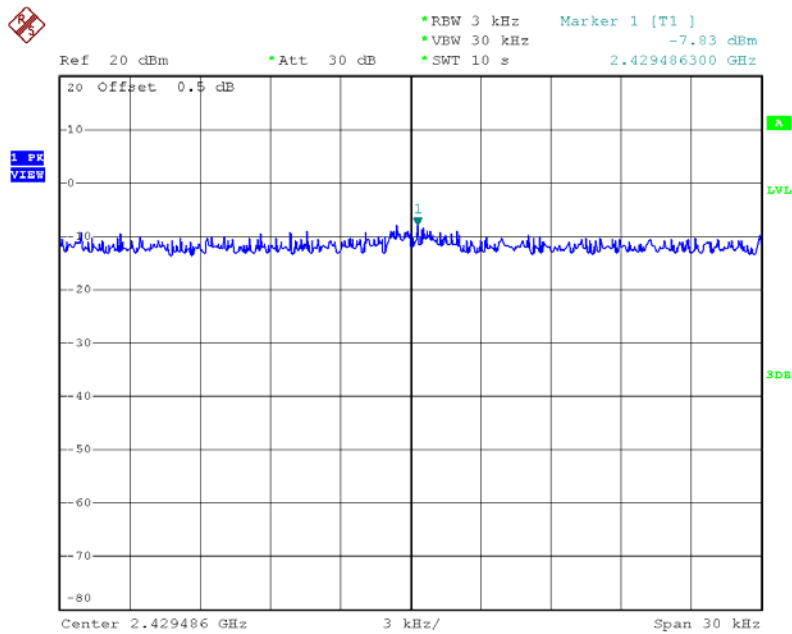
For plots, only the channel with maximum results was shown.

Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 2437 MHz / Mode 7 (1TX, 2RX)



Date: 7.FEB.2012 18:39:50

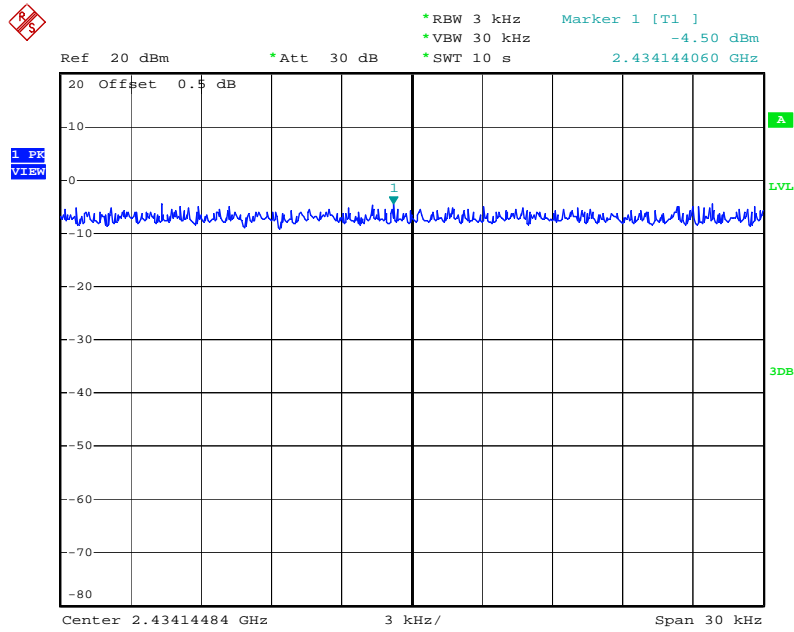
Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 2437 MHz / Mode 7 (1TX, 2RX)



Date: 7.FEB.2012 18:43:51

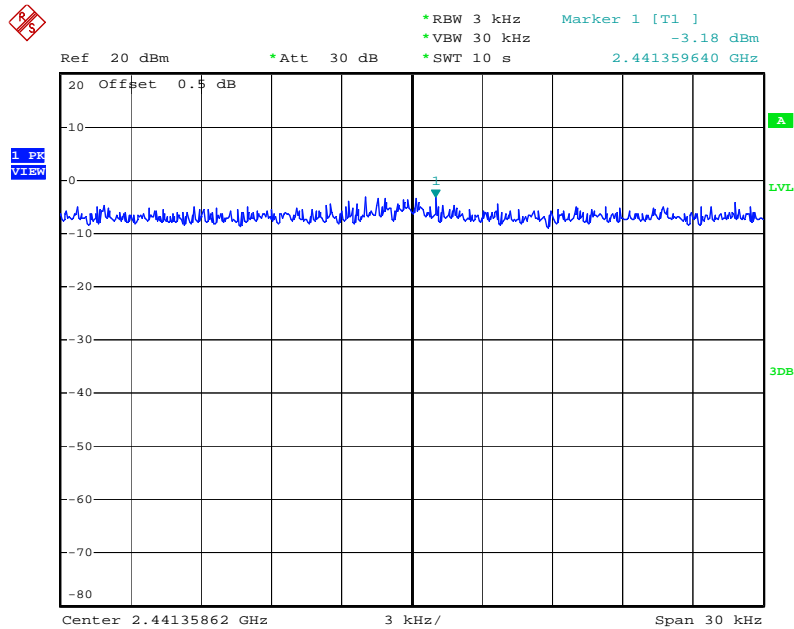


**Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 2437 MHz / Mode 7 (2TX, 2RX)**



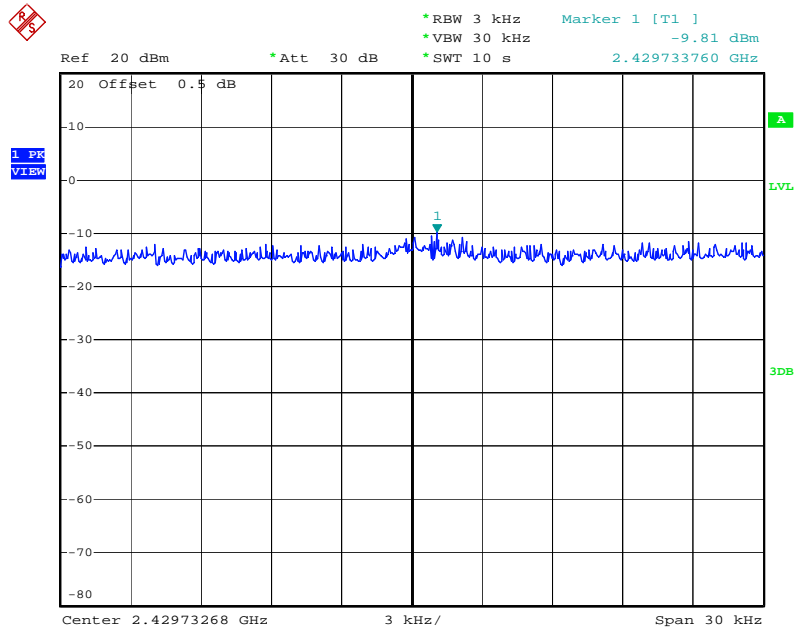
Date: 7.FEB.2012 18:18:22

**Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 2437 MHz / Mode 7 (2TX, 2RX)**



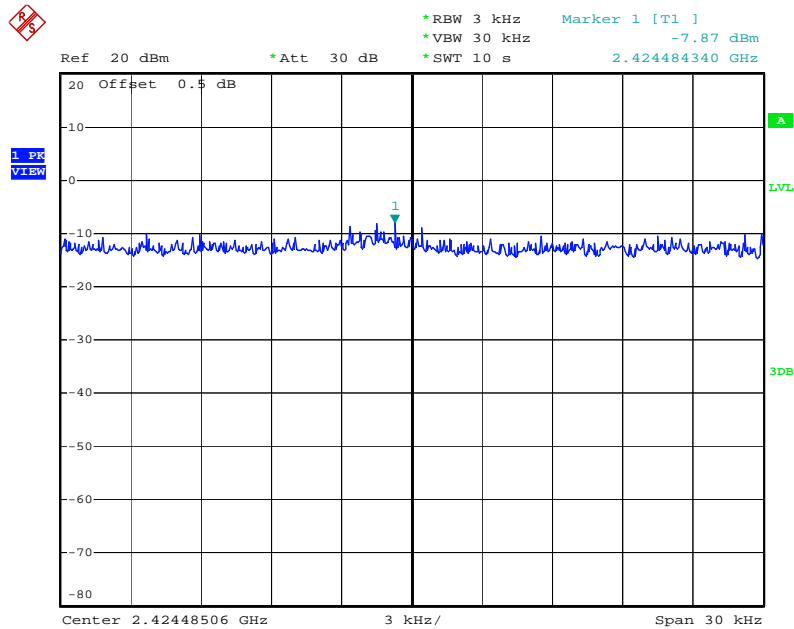
Date: 7.FEB.2012 18:16:28

**Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 2437 MHz / Mode 7 (2TX, 2RX)**



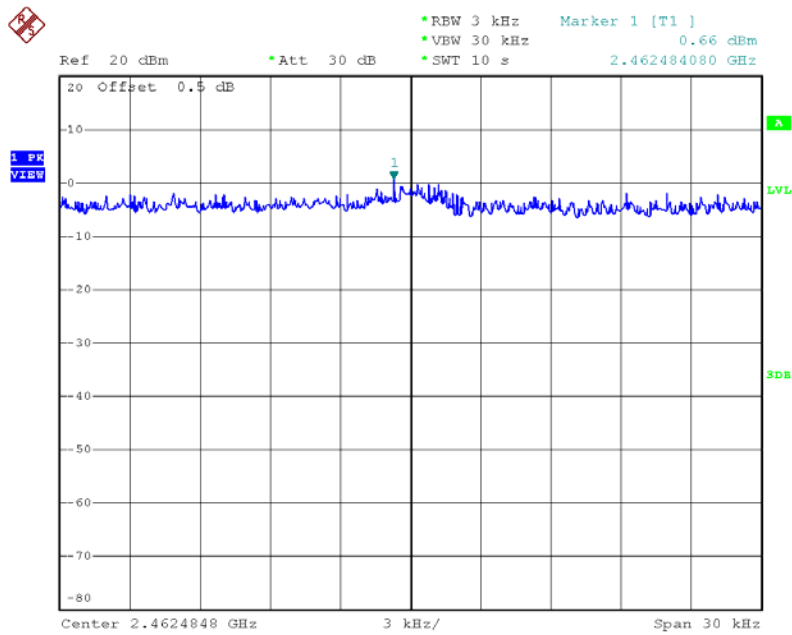
Date: 7.FEB.2012 18:00:35

**Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 2437 MHz / Mode 7 (2TX, 2RX)**



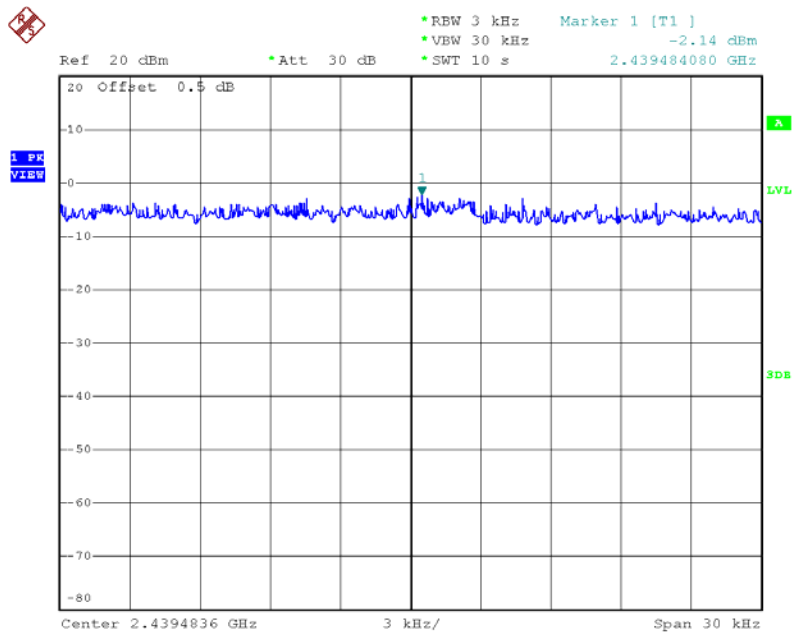
Date: 7.FEB.2012 17:57:49

Power Density Plot on Configuration IEEE 802.11b / Chain 2 / 2462 MHz / Mode 7 (1TX, 2RX)



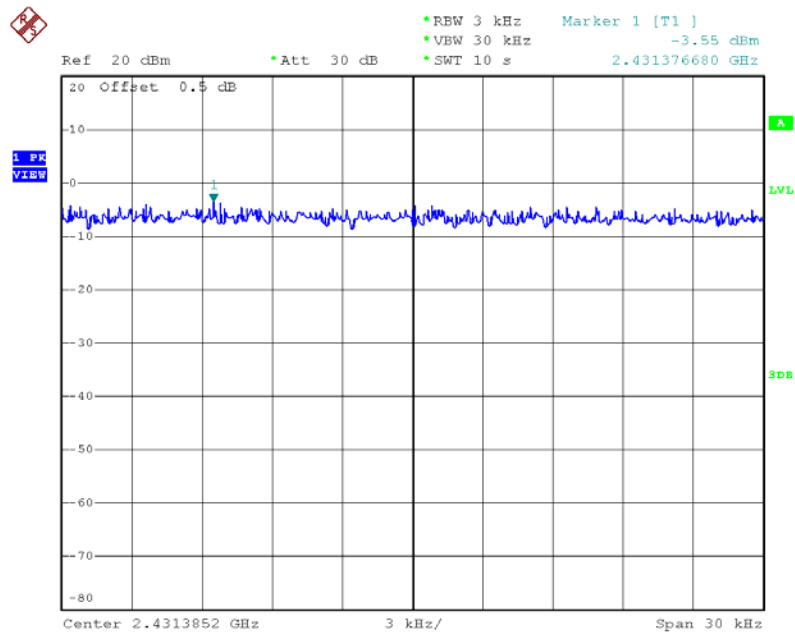
Date: 7.FEB.2012 18:34:23

Power Density Plot on Configuration IEEE 802.11g / Chain 1 / 2437 MHz / Mode 7 (1TX, 2RX)



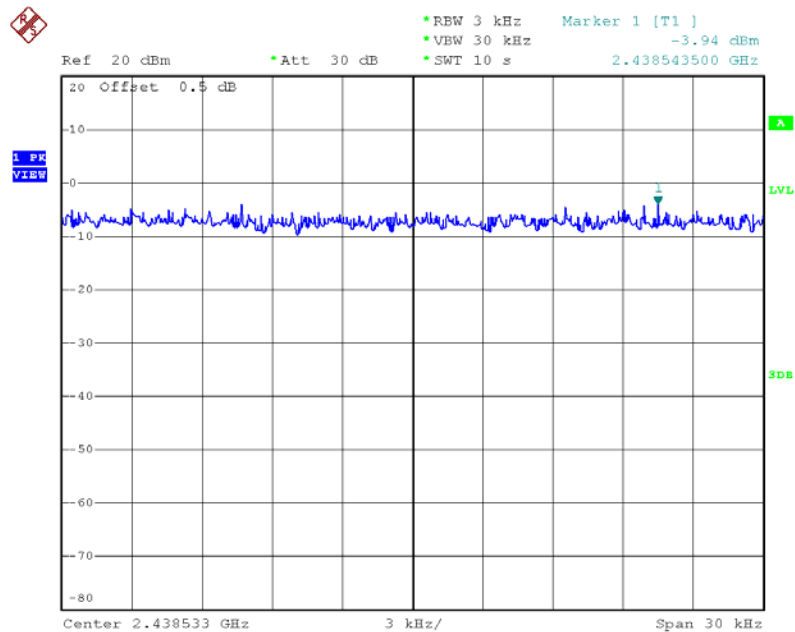
Date: 7.FEB.2012 18:36:24

## Power Density Plot on Configuration IEEE 802.11g/ Chain 1 / 2437 MHz / Mode 7 (2TX, 2RX)



Date: 7.FEB.2012 18:26:59

## Power Density Plot on Configuration IEEE 802.11g/ Chain 2 / 2437 MHz / Mode 7 (2TX, 2RX)



Date: 7.FEB.2012 18:27:59

Temperature	25°C	Humidity	56%
Test Engineer	Satoshi Yang	Configurations	IEEE 802.11n
Test Date	Feb. 07, 2012	Test Mode	Mode 8

**Configuration IEEE 802.11n MCS0 20MHz (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-5.80	8.00	Complies
6	2437 MHz	-1.86	8.00	Complies
11	2462 MHz	-6.31	8.00	Complies

**Configuration IEEE 802.11n MCS0 40MHz (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
3	2422 MHz	-9.68	8.00	Complies
6	2437 MHz	-9.06	8.00	Complies
9	2452 MHz	-10.31	8.00	Complies

**Configuration IEEE 802.11n MCS0 20MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
1	2412 MHz	-7.37	-9.47	-5.28	7.49	Complies
6	2437 MHz	-2.45	-2.91	0.34	7.49	Complies
11	2462 MHz	-7.69	-7.48	-4.57	7.49	Complies

NOTE: Directional gain =  $3.5\text{dBi} + 10\log(2) = 6.5\text{dBi} > 6\text{dBi}$ , so the Power Spectral Density limit  
 $= 8 - (6.51 - 6) = 7.49\text{dBm}$ .

**Configuration IEEE 802.11n MCS0 40MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
3	2422 MHz	-13.00	-13.45	-10.21	7.49	Complies
6	2437 MHz	-8.85	-9.80	-6.29	7.49	Complies
9	2452 MHz	-12.22	-12.66	-9.42	7.49	Complies

NOTE: Directional gain =  $3.5\text{dBi} + 10\log(2) = 6.5\text{dBi} > 6\text{dBi}$ , so the Power Spectral Density limit  
 $= 8 - (6.51 - 6) = 7.49\text{dBm}$ .

Temperature	25°C	Humidity	56%
Test Engineer	Satoshi Yang	Configurations	IEEE 802.11b/g
Test Date	Feb. 07, 2012	Test Mode	Mode 8

**Configuration IEEE 802.11b / Chain 1 (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-0.30	8.00	Complies
6	2437 MHz	0.49	8.00	Complies
11	2462 MHz	-0.78	8.00	Complies

**Configuration IEEE 802.11g / Chain 1 (1TX, 2RX)**

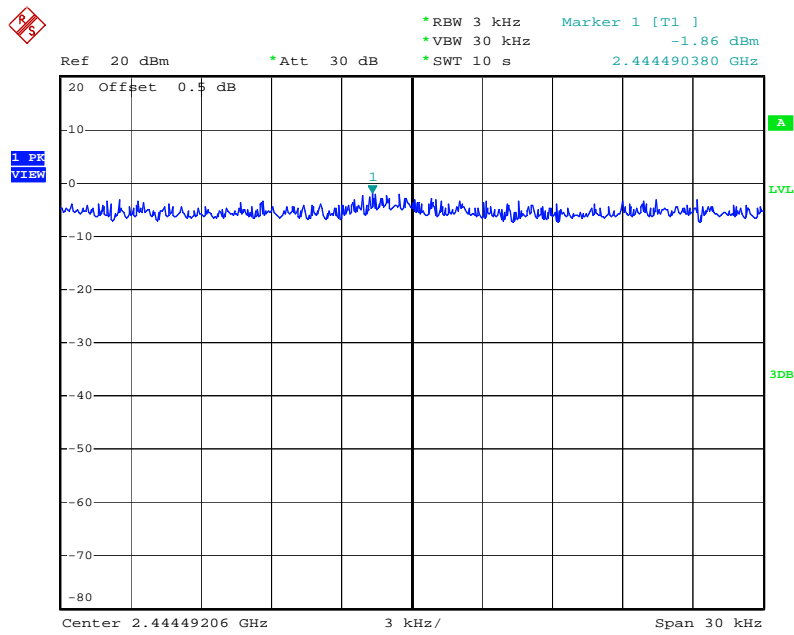
Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-5.86	8.00	Complies
6	2437 MHz	-2.21	8.00	Complies
11	2462 MHz	-5.59	8.00	Complies

**Configuration IEEE 802.11g / Chain 1 + Chain 2 (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
1	2412 MHz	-6.25	-6.82	-3.52	7.49	Complies
6	2437 MHz	-1.30	-1.21	1.76	7.49	Complies
11	2462 MHz	-6.18	-6.97	-3.55	7.49	Complies

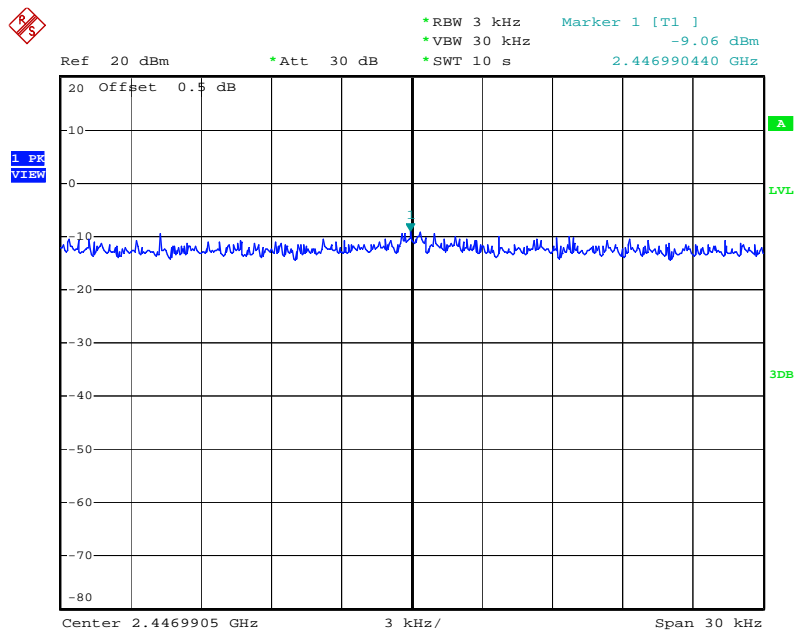
NOTE: Directional gain = 3.5dBi + 10log(2) = 6.5dBi > 6dBi, so the Power Spectral Density limit = 8 - (6.51 - 6) = 7.49dBm.

**Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 2437 MHz / Mode 8 (1TX, 2RX)**



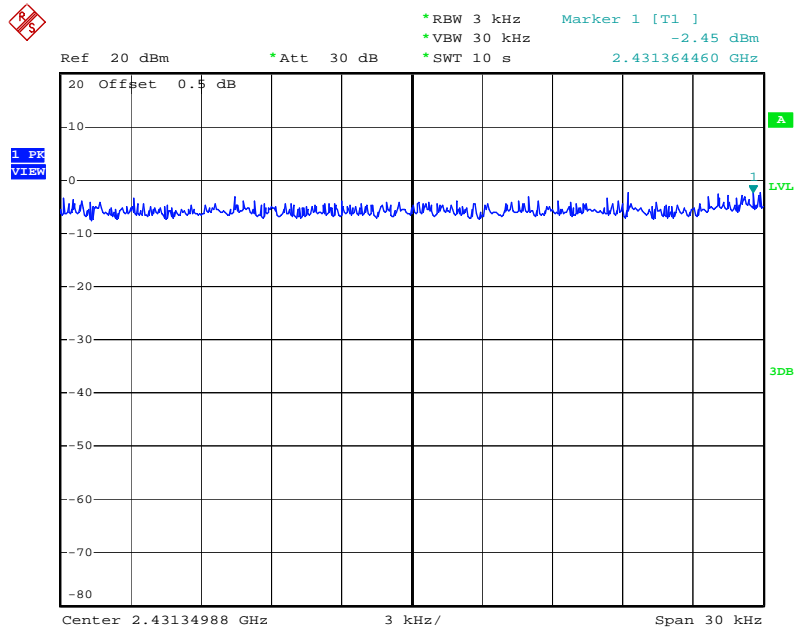
Date: 7.FEB.2012 16:10:02

**Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 2437 MHz / Mode 8 (1TX, 2RX)**



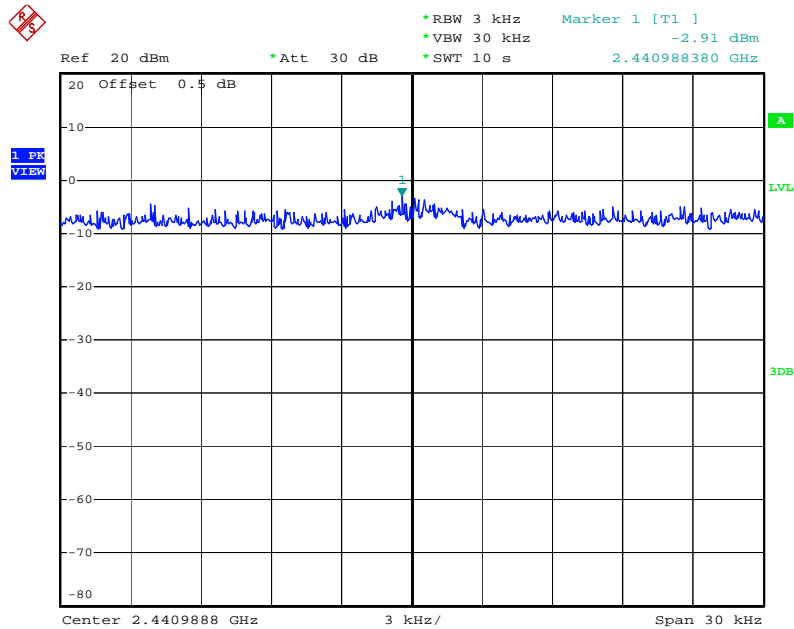
Date: 7.FEB.2012 16:17:03

**Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 1 / 2437 MHz / Mode 8 (2TX, 2RX)**



Date: 7.FEB.2012 17:23:07

**Power Density Plot on Configuration IEEE 802.11n MCS0 20MHz / Chain 2 / 2437 MHz / Mode 8 (2TX, 2RX)**



Date: 7.FEB.2012 17:25:09









Temperature	25°C	Humidity	56%
Test Engineer	Satoshi Yang	Configurations	IEEE 802.11n
Test Date	Feb. 07, 2012	Test Mode	Mode 9

**Configuration IEEE 802.11n MCS0 20MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
149	5745 MHz	-7.66	-8.28	-4.95	6.39	Complies
157	5785 MHz	-7.58	-7.03	-4.29	6.39	Complies
165	5825 MHz	-7.75	-6.88	-4.28	6.39	Complies

NOTE: Directional gain =  $4.6\text{dBi} + 10\log(2) = 7.61\text{dBi} > 6\text{dBi}$ , so the Power Spectral Density limit  
 $= 8 - (7.61 - 6) = 6.39\text{dBm}$ .

**Configuration IEEE 802.11n MCS0 40MHz (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
151	5755 MHz	-10.99	-10.46	-7.71	6.39	Complies
159	5795 MHz	-10.26	-10.08	-7.16	6.39	Complies

NOTE: Directional gain =  $4.6\text{dBi} + 10\log(2) = 7.61\text{dBi} > 6\text{dBi}$ , so the Power Spectral Density limit  
 $= 8 - (7.61 - 6) = 6.39\text{dBm}$ .

Temperature	25°C	Humidity	56%
Test Engineer	Satoshi Yang	Configurations	IEEE 802.11a
Test Date	Feb. 07, 2012	Test Mode	Mode 9

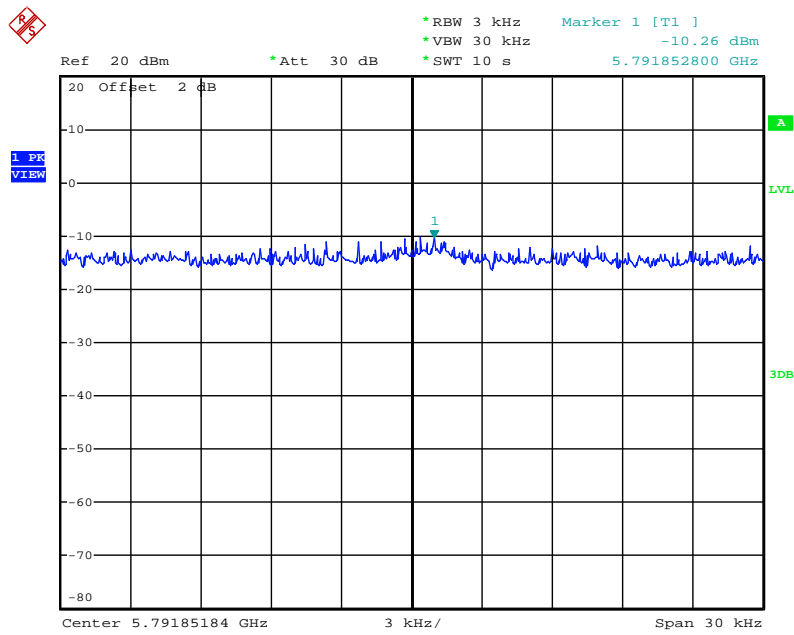
**Configuration IEEE 802.11a / Chain 1 + Chain 2 (2TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)		Total Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
		Chain 1	Chain 2			
149	5745 MHz	-7.81	-8.31	-5.04	6.39	Complies
157	5785 MHz	-7.57	-6.57	-4.03	6.39	Complies
165	5825 MHz	-5.29	-6.89	-3.01	6.39	Complies

NOTE: Directional gain =  $4.6\text{dBi} + 10\log(2) = 7.61\text{dBi} > 6\text{dBi}$ , so the Power Spectral Density limit  
 $= 8 - (7.61 - 6) = 6.39\text{dBm}$ .

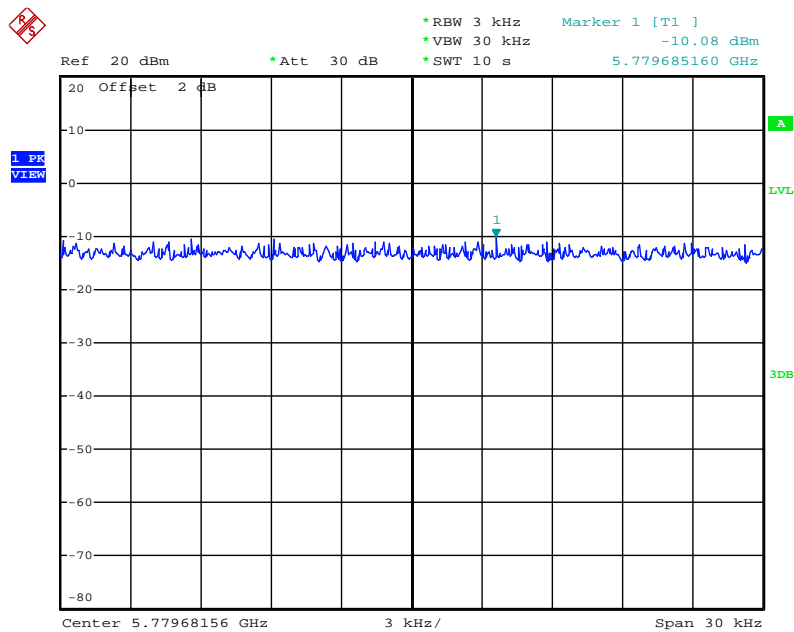


**Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 1 / 5795 MHz / Mode 9 (2TX, 2RX)**



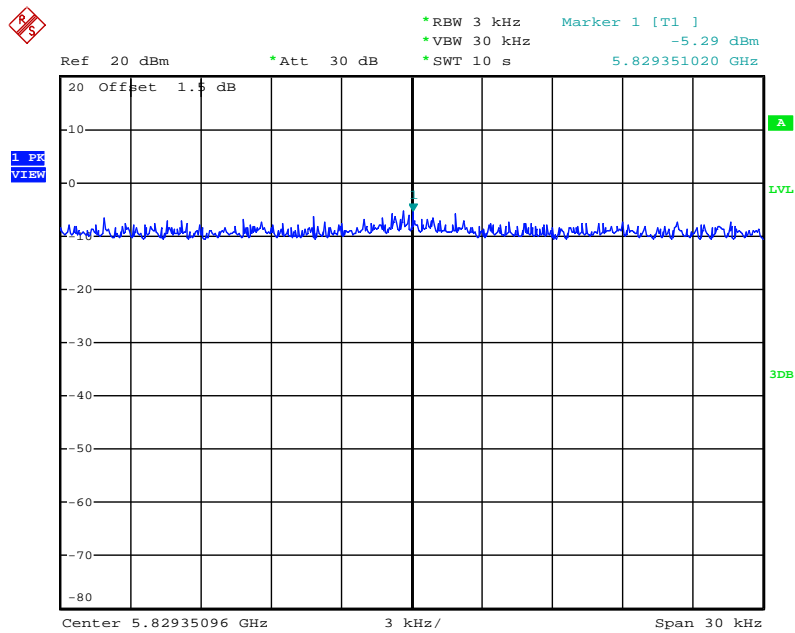
Date: 1.FEB.2012 22:40:42

**Power Density Plot on Configuration IEEE 802.11n MCS0 40MHz / Chain 2 / 5795 MHz / Mode 9 (2TX, 2RX)**



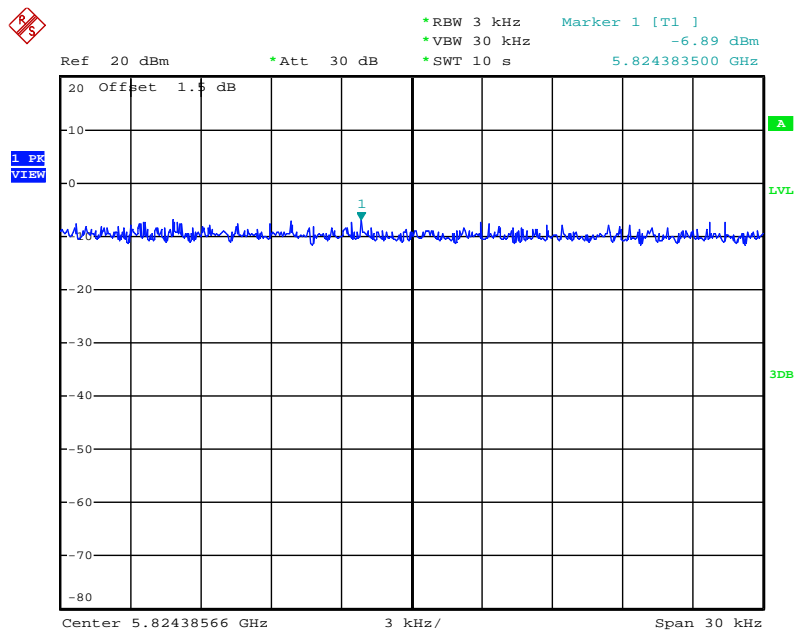
Date: 1.FEB.2012 22:42:25

## Power Density Plot on Configuration IEEE 802.11a / Chain 1 / 5825 MHz / Mode 9 (2TX, 2RX)



Date: 10.JAN.2012 17:23:48

## Power Density Plot on Configuration IEEE 802.11a / Chain 2 / 5825 MHz / Mode 9 (2TX, 2RX)



Date: 10.JAN.2012 17:25:43

<b>Temperature</b>	25°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Benson Peng	<b>Configurations</b>	IEEE 802.11n
<b>Test Date</b>	Feb. 03, 2012	<b>Test Mode</b>	Mode 10

**Configuration IEEE 802.11n MCS0 20MHz / Chain 2 (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-11.39	3.10	Complies
6	2437 MHz	-9.86	3.10	Complies
11	2462 MHz	-12.84	3.10	Complies

**Configuration IEEE 802.11n MCS0 40MHz / Chain 2 (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
3	2422 MHz	-19.71	3.10	Complies
6	2437 MHz	-15.04	3.10	Complies
9	2452 MHz	-19.72	3.10	Complies



<b>Temperature</b>	25°C	<b>Humidity</b>	57%
<b>Test Engineer</b>	Benson Peng	<b>Configurations</b>	IEEE 802.11b/g
<b>Test Date</b>	Feb. 03, 2012	<b>Test Mode</b>	Mode 10

**Configuration IEEE 802.11b / Chain 2 (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-4.87	3.10	Complies
6	2437 MHz	-3.15	3.10	Complies
11	2462 MHz	-7.03	3.10	Complies

**Configuration IEEE 802.11g / Chain 2 (1TX, 2RX)**

Channel	Frequency	Power Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
1	2412 MHz	-11.95	3.10	Complies
6	2437 MHz	-9.68	3.10	Complies
11	2462 MHz	-12.94	3.10	Complies

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

For plots, only the channel with maximum results was shown.