



TESTING CERT #3478.01



# TEST REPORT

EUT Description	1x1 802.11ac + BT 4.2 combo, PCIe M.2 2230 adapter card
Brand Name	Intel® Dual-Band Wireless-AC 3168
Model Name	3168NGW
Serial Number	TA#: H84692-006 WF MAC: 34:13:E8:4F:20:63 / 34:13:EB:4F:12:3A BT MAC: 34:13:E8:4F:20:67 / 34:13:E8:4F:12:3E
FCC/IC ID	TA#: H84692-007 WF MAC: 34:13:EB:4F:5E:75 BT MAC : 34:13:E8:4F:5E:79 (see section 4)
Antenna type	FCC ID: PD93168NG / PD93168NGU IC ID: 1000M-3168NG
Hardware/Software Version	SkyCross WIMAX/WLAN Reference Antenna HW: TF1 – cfg 51.12 Test SW: DRTU version 1.8.4-02432 Op SW: 99.0.17.7
Date of Sample Receipt	2016-01-07
Date of Test Start/End	2016-01-19 / 2016-01-27
Features	802.11 a/b/g/n/ac Wireless LAN + BDR/EDR 2.1 + BLE 4.2 (see section 5)

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Reference Standards	FCC CFR Title 47 Part 15C RSS-247 issue 1, RSS-Gen issue 4 (see section 1)
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Test Report number	160107-01.TR02
Revision Control	Rev. 00

The test results relate only to the samples tested.  
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## 1. Standards, reference documents and applicable test methods

1. FCC 47 CFR part 15 - Subpart C – §15.247 Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.
2. FCC 47 CFR part 15 - Subpart C – §15.209 Radiated emission limits; general requirements.
3. FCC OET KDB 558074 D01 DTS Meas Guidance v03r04 – Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247
4. RSS-247 Issue 1 – Licence-exempt Radio Apparatus (All Frequency Bands): Category I Equipment.
5. RSS-Gen Issue 4 – General Requirements for Compliance of Radio Apparatus.
6. ANSI C63.10-2009 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

## 2. General conditions, competences and guarantees

- ✓ Intel Mobile Communications Wireless RF Lab (Intel WRF Lab) is a testing laboratory accredited by the American Association for Laboratory Accreditation (A2LA).
- ✓ Intel Mobile Communications Wireless RF Lab (Intel WRF Lab) is an Accredited Test Firm listed by the FCC, with Designation Number FR0011.
- ✓ Intel Mobile Communications Wireless RF Lab (Intel WRF Lab) is a Registered Test Site listed by IC, with IC Assigned Code 1000Y.
- ✓ Intel WRF Lab only provides testing services and is committed to providing reliable, unbiased test results and interpretations.
- ✓ Intel WRF Lab is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.
- ✓ Intel WRF Lab has developed calibration and proficiency programs for its measurement equipment to ensure correlated and reliable results to its customers.
- ✓ This report is only referred to the item that has undergone the test.
- ✓ This report does not imply an approval of the product by the Certification Bodies or competent Authorities.
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## 3. Environmental Conditions

- ✓ At the site where the measurements were performed the following limits were not exceeded during the tests:

Temperature	22°C ± 2°C
Humidity	35% ± 5%

#### 4. Test samples

Sample	Control #	Description	Model	Serial #	Date of reception	Note
#01	160107-01.S07	WiFi/BT Module	3168NGW	WF MAC: 34:13:E8:4F:20:63	2016-01-07	Used for conducted tests
	160107-01.S14	Extender board	PC00495	ASS0495-001, 4950414-064	2016-01-07	
	160107-01.S19	Switching power supply SINPRO 5V 6A	SPU60-102	08741187 1350	2016-01-07	
	15040201.S14	Laptop	Dell Latitude	27081704053	2015-04-15	
#02	160107-01.S03	WiFi/BT High End Module	3168NGW	WF MAC: 34:13:EB:4F:12:3A	2016-07-01	Used for radiated tests BLE and 802.11a/n/ac 5.8 GHz
	160107-01.S11	Extender board	PC00495	4955013-097	2016-07-01	
	160107-01.S27	USB Cable	E154336	NA	2015-05-12	
	15081801.S14	PCI Cable	Blue cable 1 meter	NA	2015-05-12	
	160107-01.S28	Laptop	Dell E5440	BJSYN32	2016-01-15	
	160107-01.S26	AC/DC Adapter	SPU60-102	07990509 1249	2016-01-15	
#03	160107-01.S32	WiFi/BT High End Module	3168NGW, CFG SdP 02.3	WF MAC: 34:13:EB:4F:5E:75	2016-02-17	Used for radiated tests 802.11b/g/n 2.4GHz
	160107-01.S11	Extender board	PC00495	4955013-097	2016-07-01	
	160107-01.S27	USB Cable	E154336	NA	2015-05-12	
	15081801.S14	PCI Cable	Blue cable 1 meter	NA	2015-05-12	
	160107-01.S28	Laptop	Dell E5440	BJSYN32	2016-01-15	
	160107-01.S26	AC/DC Adapter	SPU60-102	07990509 1249	2016-01-15	

NA: Not Applicable

#### 5. EUT features

These are the detailed bands and modes supported by the Equipment Under Test:

802.11b/g/n	2.4GHz (2400.0 – 2483.5 MHz)
802.11a/n/ac	5.2GHz (5150.0 – 5250.0 MHz)
	5.3GHz (5250.0 – 5350.0 MHz)
	5.6GHz (5470.0 – 5725.0 MHz)
	5.8GHz (5725.0 – 5850.0 MHz)
BDR/EDR 2.1 BLE 4.2	2.4GHz (2400.0 – 2483.5 MHz)

#### 6. Remarks and comments

N/A

## 7. Test Verdicts summary

### 7.1. 802.11 b/g/n 2.4GHz

FCC part	RSS part	Test name	Verdict
15.247 (a) (2)	RSS-247 Clause 5.2 (1)	6dB Bandwidth	P
15.247 (b) (3)	RSS-247 Clause 5.4 (4)	Maximum output power and E.I.R.P.	P
15.247 (d)	RSS-247 Clause 5.5	Out-of-band Emissions (conducted)	P
15.247 (e)	RSS-247 Clause 5.2 (2)	Power spectral density	P
15.247 (d) 15.209	RSS-247 Clause 5.5	Out-of-band Emissions (radiated)	P

### 7.2. 802.11 a/n/ac 5.8 GHz

FCC part	RSS part	Test name	Verdict
15.247 (a) (2)	RSS-247 Clause 5.2 (1)	6dB Bandwidth	P
15.247 (b) (3)	RSS-247 Clause 5.4 (4)	Maximum output power and E.I.R.P.	P
15.247 (d)	RSS-247 Clause 5.5	Out-of-band Emissions (conducted)	P
15.247 (e)	RSS-247 Clause 5.2 (2)	Power spectral density	P
15.247 (d) 15.209	RSS-247 Clause 5.5	Out-of-band Emissions (radiated)	P

### 7.3. BLE

FCC part	RSS part	Test name	Verdict
15.247 (a) (2)	RSS-247 Clause 5.2 (1)	6dB Bandwidth	P
15.247 (b) (3)	RSS-247 Clause 5.4 (4)	Maximum output and E.I.R.P.	P
15.247 (d)	RSS-247 Clause 5.5	Out-of-band Emissions (conducted)	P
15.247 (e)	RSS-247 Clause 5.2 (2)	Power spectral density	P
15.247 (d) 15.209	RSS-247 Clause 5.5	Out-of-band Emissions (radiated)	P

P: Pass  
 F: Fail  
 NM: Not Measured  
 NA: Not Applicable

## 8. Document Revision History

Revision #	Date	Modified by	Details
Rev. 00	2016-02-19	O. Fargant	First Issue

# Annex A. Test & System Description

## A.1 Test Conditions

For 802.11a/b/g, 802.11n20 (20 MHz channel bandwidth), 802.11n40 (40MHz channel bandwidth), and 802.11ac80 modes the EUT can transmit only at CHAIN A RF output.

For Bluetooth and Bluetooth Low Energy modes the EUT can transmit only at CHAIN B RF output.

The conducted RF output power at each chain was adjusted according to the client's supplied Target values (see following table) using the Intel DRTU tool and measuring the power by using a spectrum analyzer with the channel integration method according to point II) E) 2) e) (Method SA-2 Alternative) of KDB 789033 D02.

Measured values for adjustment were within -0.2 dB/+0.3 dB from the declared Target values.

2.4GHz DTS & BLE					Conducted Power Target Value (dBm)
Mode	BW (MHz)	Data Rate	CH #	Freq. (MHz)	SISO Chain A
802.11b	20	1Mbps	1	2412	16.5
			7	2442	17.5
			11	2462	17.0
			12	2467	11.5
			13	2472	8.5
802.11g	20	6Mbps	1	2412	15.5
			7	2442	17.0
			10	2457	15.5
			11	2462	14.5
			13	2472	-2.5
802.11n	20	HT0	1	2412	15.0
			7	2442	17.0
			10	2457	15.5
			11	2462	13.0
			13	2472	-2.5
802.11n	40	HT0	3F	2422	12.0
			4F	2427	14.0
			7F	2442	14.5
			8F	2447	14.0
			9F	2452	12.5
			10F	2457	8.0
Bluetooth Low Energy	2	1Mbps	0	2412	8.0
			19	2437	8.0
			39	2462	7.5

5.8GHz DTS					Conducted Power, Target Value (dBm)
Mode	BW (MHz)	Data Rate	CH #	Freq. (MHz)	SISO Chain A
802.11a	20	6Mbps	149	5745	18.0
			157	5785	17.5
			165	5825	18.0
802.11n20	20	HT0	<b>144*</b>	5720	9.0
			149	5745	17.5
			157	5785	17.5
			165	5825	17.5
802.11n40	40	HT0	<b>142F*</b>	5670	5.0
			151F	5755	18.0
			159F	5795	18.0
802.11ac80	80	VHT0	<b>138ac80*</b>	5690	2.0
			155ac80	5775	18.0

\* Overlapped channels between U-NII-2C and 5.8 GHz DTS

Alternative channels to the highest channel have been also tested for Band Edge compliance.

The following data rates were selected based on preliminary testing that identified those rates as the worst cases for output power and spurious levels at the band edges:

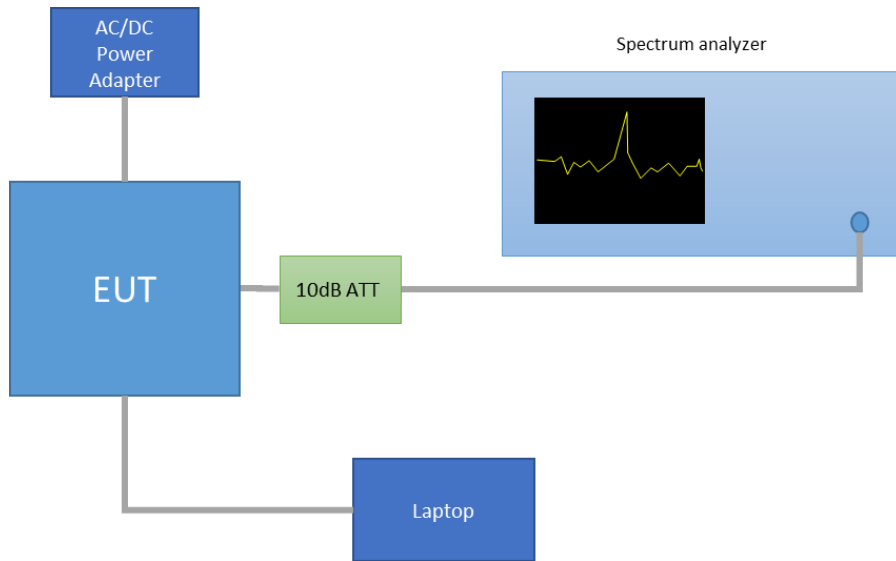
- 802.11b → 1Mbps
- 802.11g → 6Mbps
- 802.11n20 and 802.11n40 (SISO) → HT0

## A.2 Measurement system

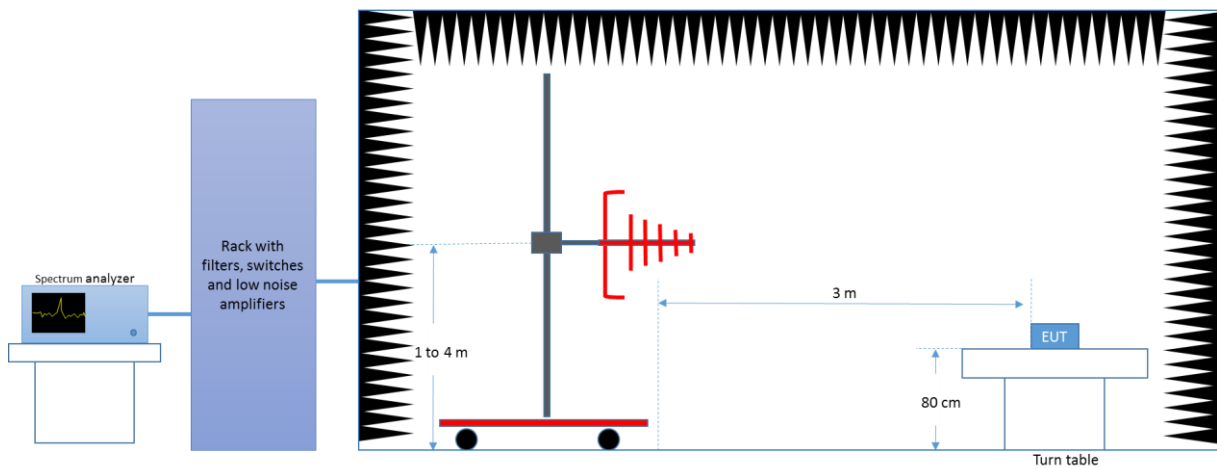
Measurements were performed using the following setups, made in accordance to the general provisions of KDB 558074 D01 DTS Meas Guidance.

The DUT was installed in a test fixture and this test fixture is connected to a laptop computer and AC/DC power adapter. The laptop computer was used to configure the EUT to continuously transmit at a specified output power using all different modes and modulation schemes, using the Intel proprietary tool DRTU.

### Conducted Setup

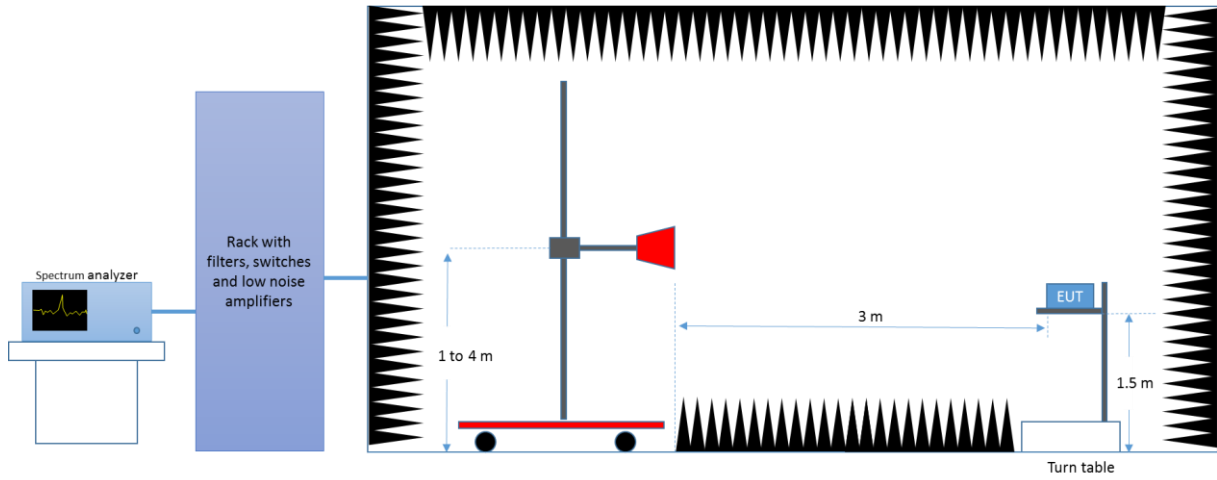


### Radiated Setup < 1GHz

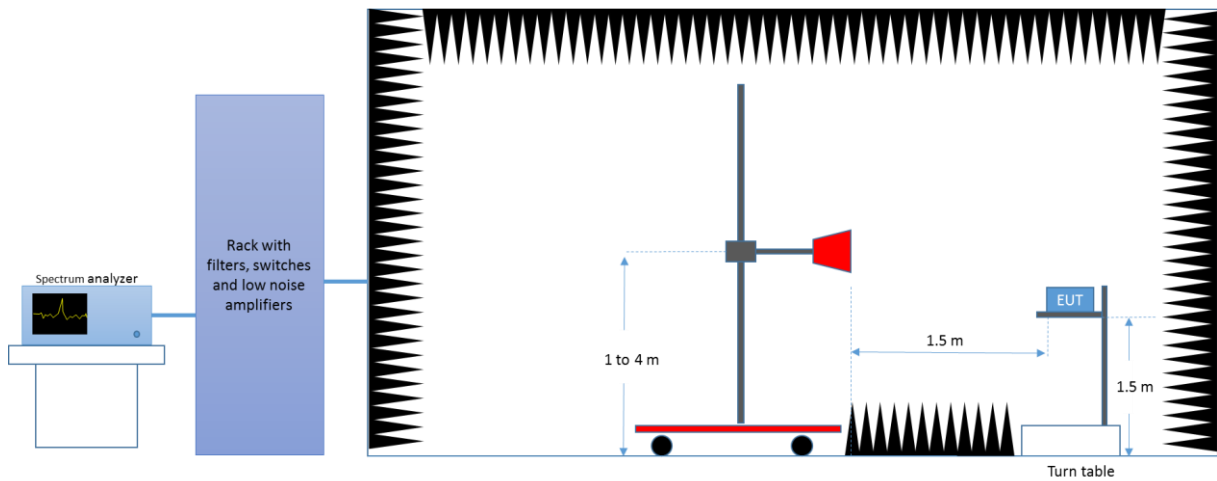




*Radiated Setup 1GHz - 18GHz*



*Radiated Setup > 18GHz*



### A.3 Test Equipment List

#### Conducted Setup

ID#	Device	Type/Model	Serial Number	Manufacturer	Cal. Date	Cal. Due Date
0316	Spectrum analyzer	FSV	103309	Rohde & Schwarz	2015-03-20	2017-03-20

#### Radiated Setup

ID#	Device	Type/Model	Serial Number	Manufacturer	Cal. Date	Cal. Due Date
0133	Spectrum analyzer	FSV40	101358	Rohde & Schwarz	2014-05-09	2016-05-09
0137	Log antenna 30 MHz – 1 GHz	3142E	00156946	ETS Lindgren	2014-03-05	2016-03-05
0138	Horn antenna 1 GHz – 6.4 GHz	3117	00152266	ETS Lindgren	2014-03-04	2016-03-04
0141	Horn Antenna 6.4 GHz – 18 GHz	3117-PA	00157736	ETS Lindgren	2014-06-03	2016-06-03
0248	Horn Antenna 1 GHz – 18 GHz	3117-PA	00167062	ETS Lindgren	2014-08-13	2016-08-13
0139	Horn Antenna 18GHz – 26GHz	114514	00167100	ETS Lindgren	2014-04-25	2016-04-25
0140	Horn Antenna 26GHz – 40GHz	120722	00169638	ETS Lindgren	2014-08-14	2016-08-14
0135	Anechoic chamber	FACT 3	RFD_FA_100	ETS Lindgren	2014-05-06	2016-05-06
0329	Measurement Software	EMC32	1300.7027.00 (100401)	Rohde & Schwarz	N/A	N/A
0296	DC Power Supply	6673A	MY41000318	Agilent	N/A	N/A

### A.4 Measurement Uncertainty Evaluation

The system uncertainty evaluation is shown in the below table:

Measurement type	Uncertainty [ ±dB]
Conducted Power	± 1.0
Conducted spurious emission	± 2.9
Radiated test < 1GHz	± 3.8
Radiated test 1GHz - 40 GHz	± 4.7

# Annex B. Test Results - 802.11b/g/n 2.4GHz

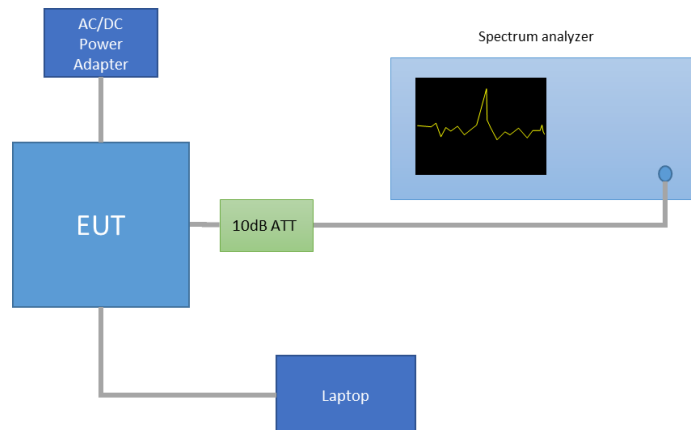
## B.1 6dB & 99% Bandwidth

**Test limits:**

FCC part	RSS part	Limits
15.247 (a) (2)	RSS-247 Clause 5.2 (1)	Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

**Test procedure:**

The setup below was used to measure the 6dB & 99% Bandwidth. The antenna terminal of the EUT is connected to the spectrum analyzer through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.



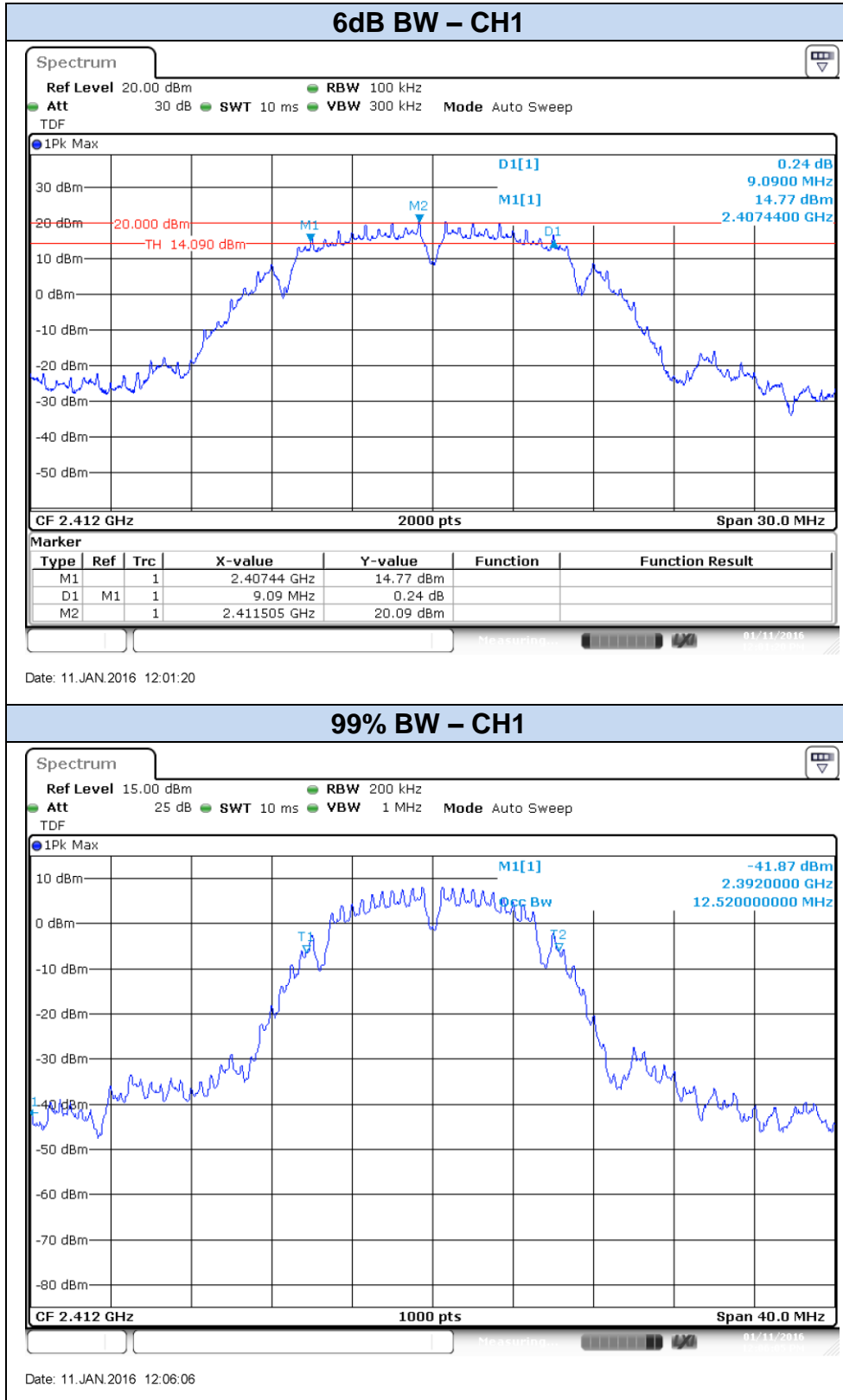
**Results tables:**

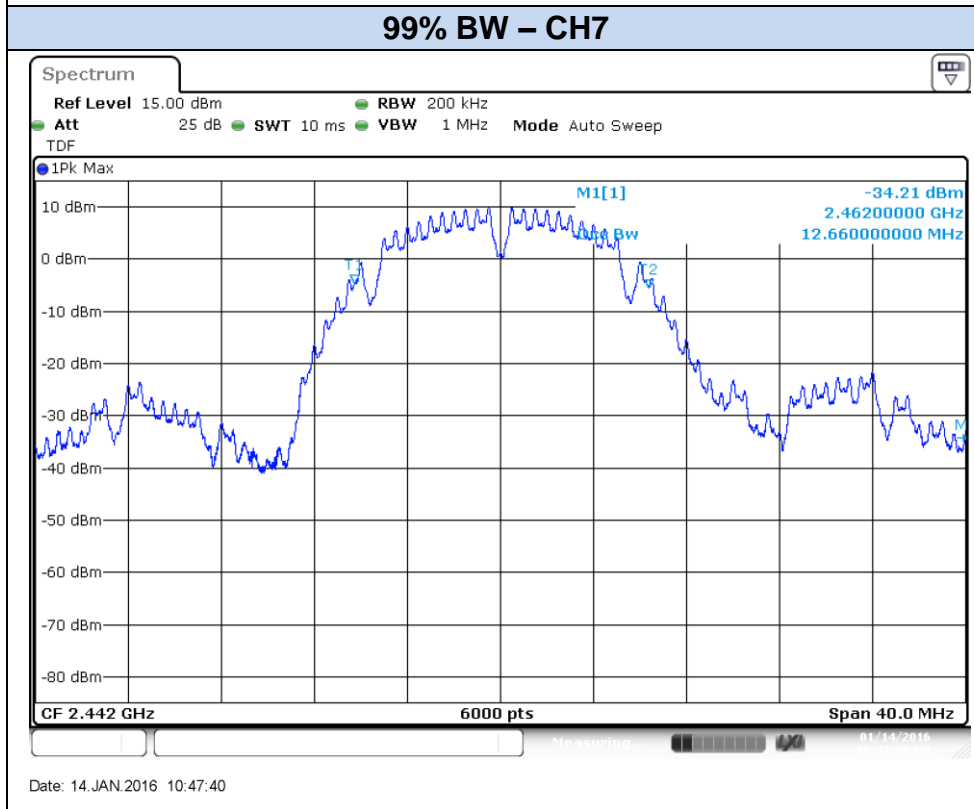
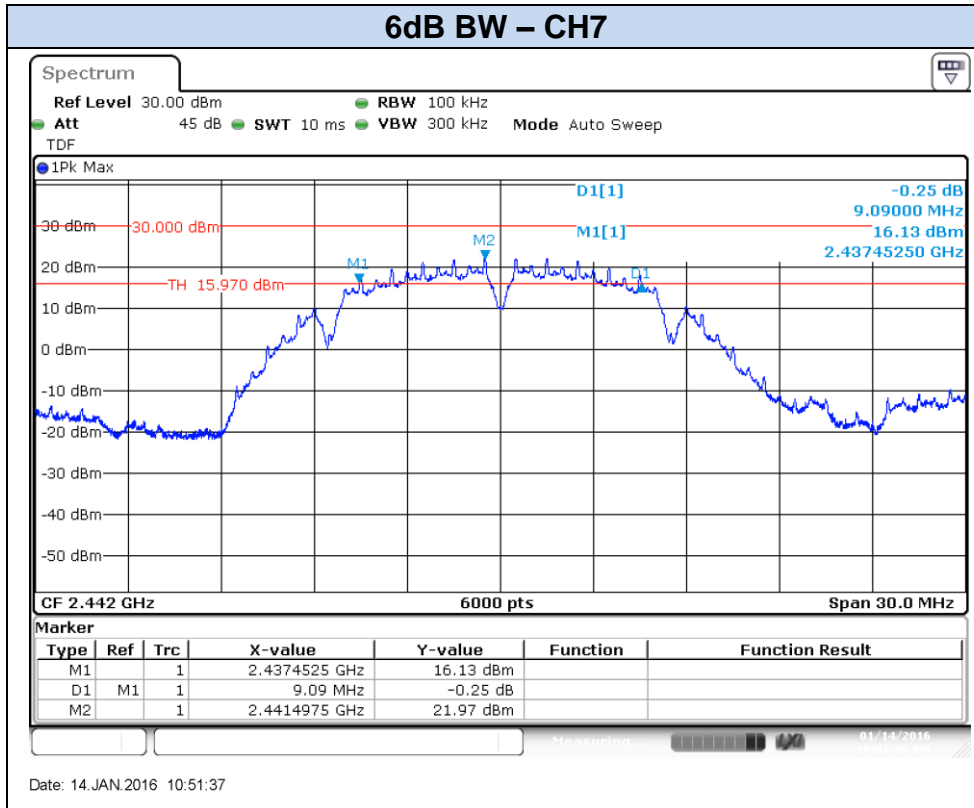
Mode	Rate	Antenna	Channel	Frequency [MHz]	6dB BW [MHz]	99% BW [MHz]
802.11b	1Mbps	SISO CHAIN A	1	2412	9.09	12.52
			7	2437	9.09	12.66
			11	2462	9.11	12.51
			12	2467	9.09	12.89
			13	2472	9.09	12.89
802.11g	6Mbps	SISO CHAIN A	1	2412	15.43	16.48
			7	2437	15.12	16.60
			11	2462	15.31	16.50
			12	2467	15.44	16.55
			13	2472	15.46	16.49
802.11n20	HT0	SISO CHAIN A	1	2412	15.32	17.68
			7	2437	15.12	17.75
			11	2462	15.93	17.66
			12	2467	15.33	17.64
			13	2472	15.94	17.71
802.11n40	HT0	SISO CHAIN A	3F	2422	35.15	36.15
			7F	2437	35.14	36.15
			9F	2452	35.15	36.15
			10F	2457	35.14	36.20
			11F	2462	35.30	36.20

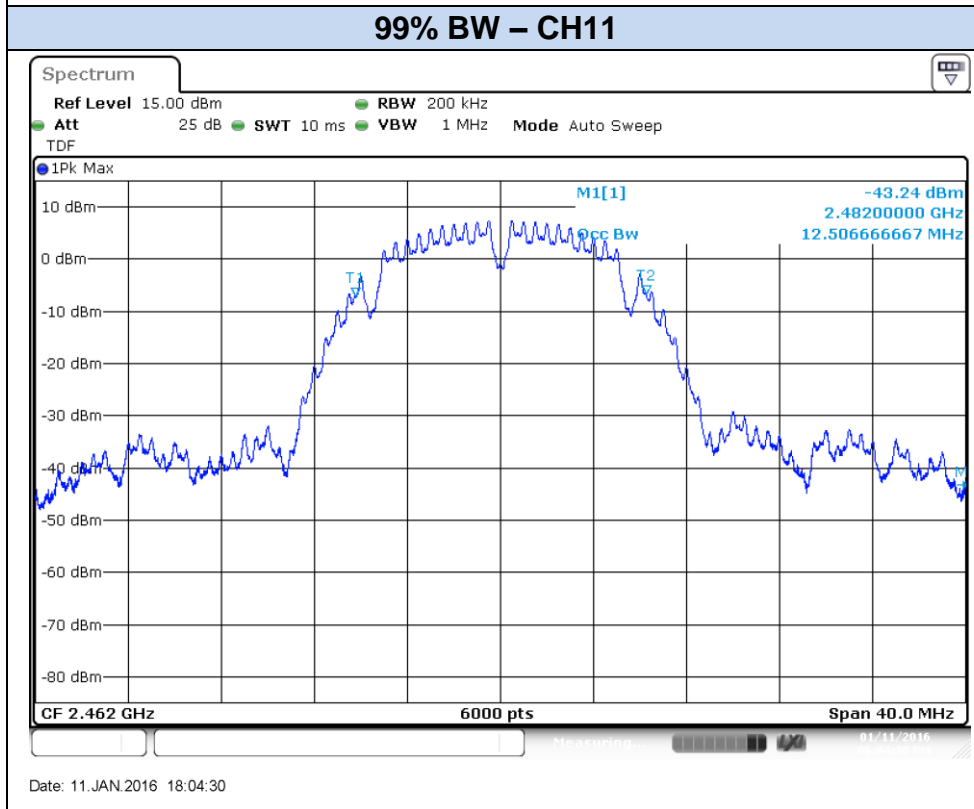
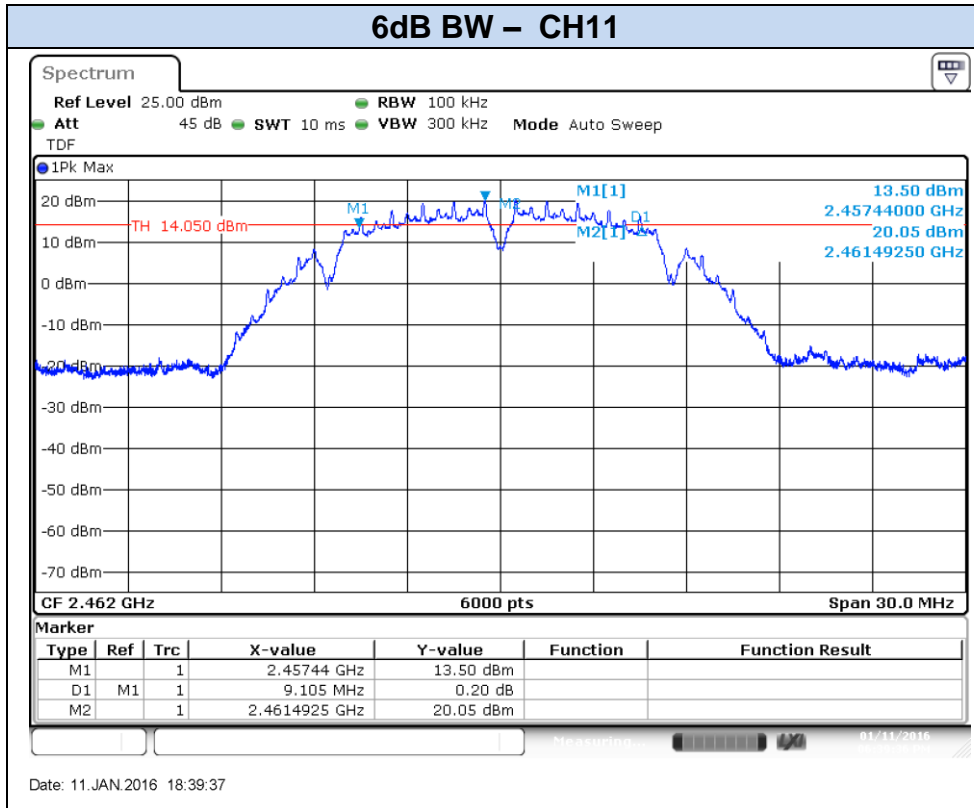
**Max Value**

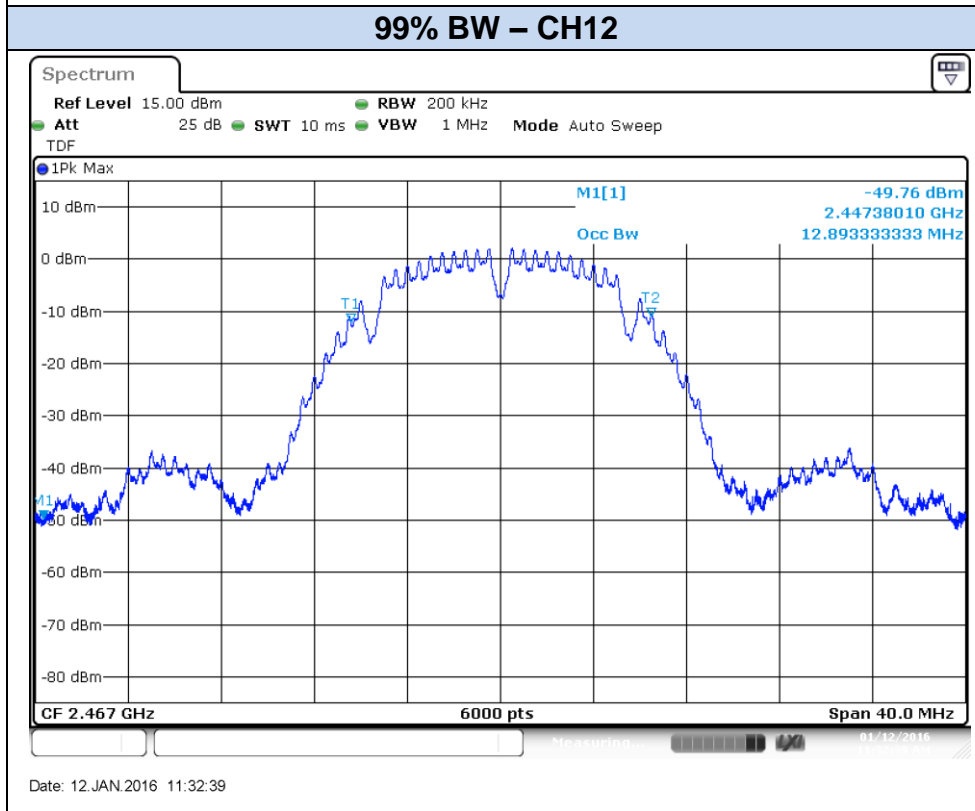
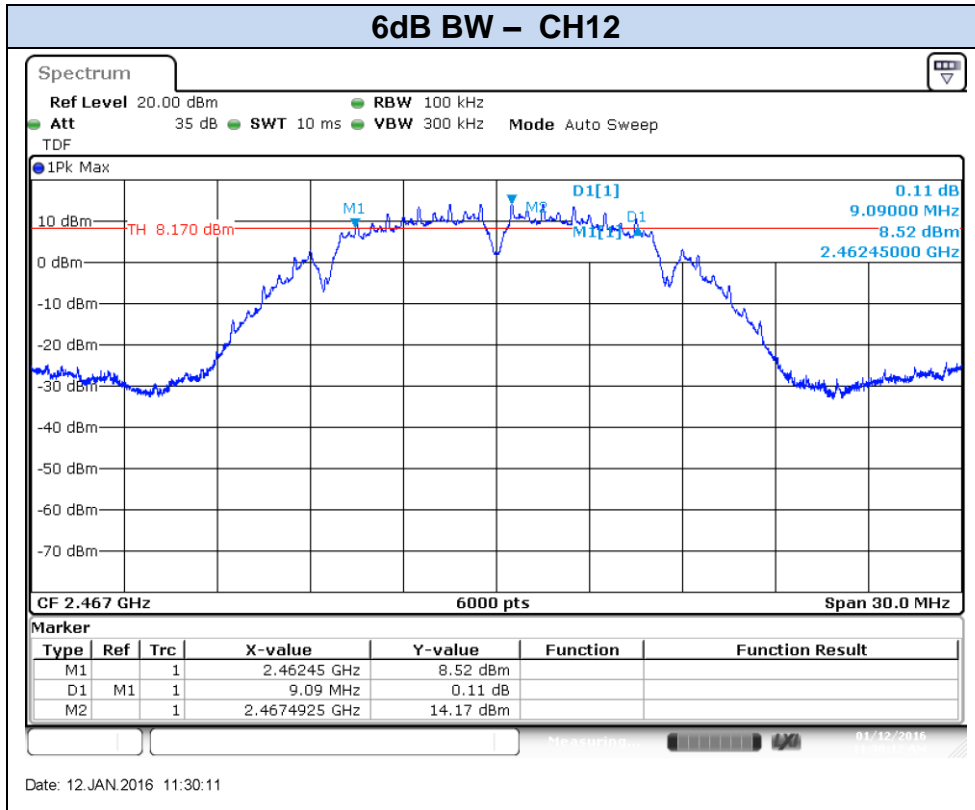
**Results screenshot:**

**802.11b, 1Mbps – Chain A**

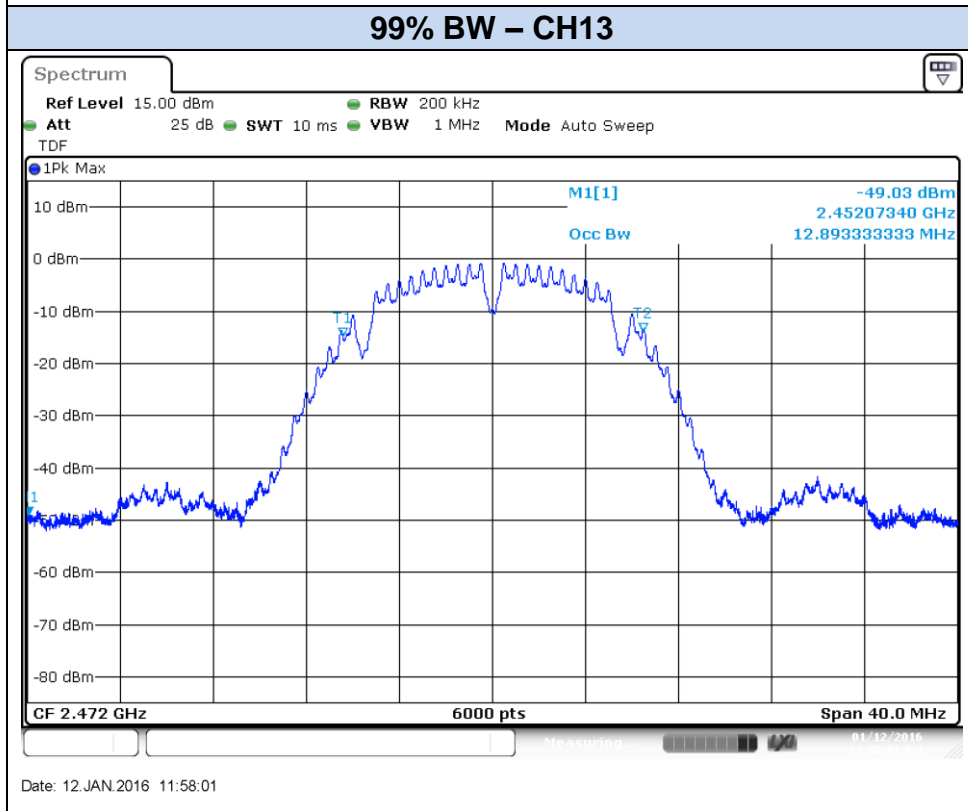
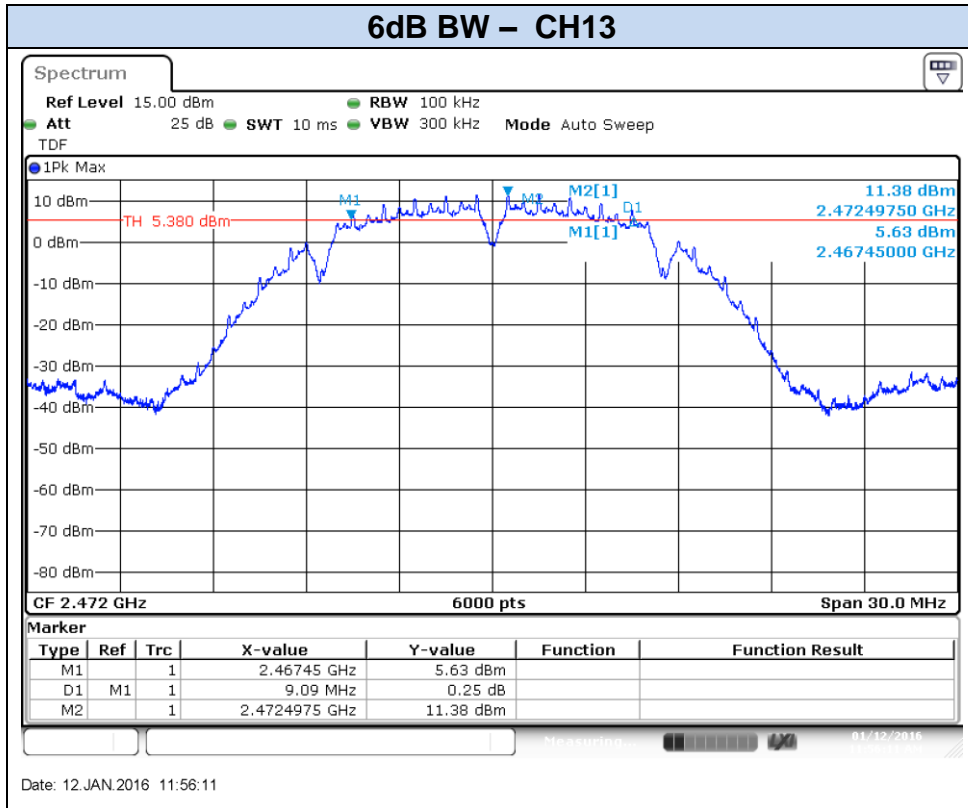




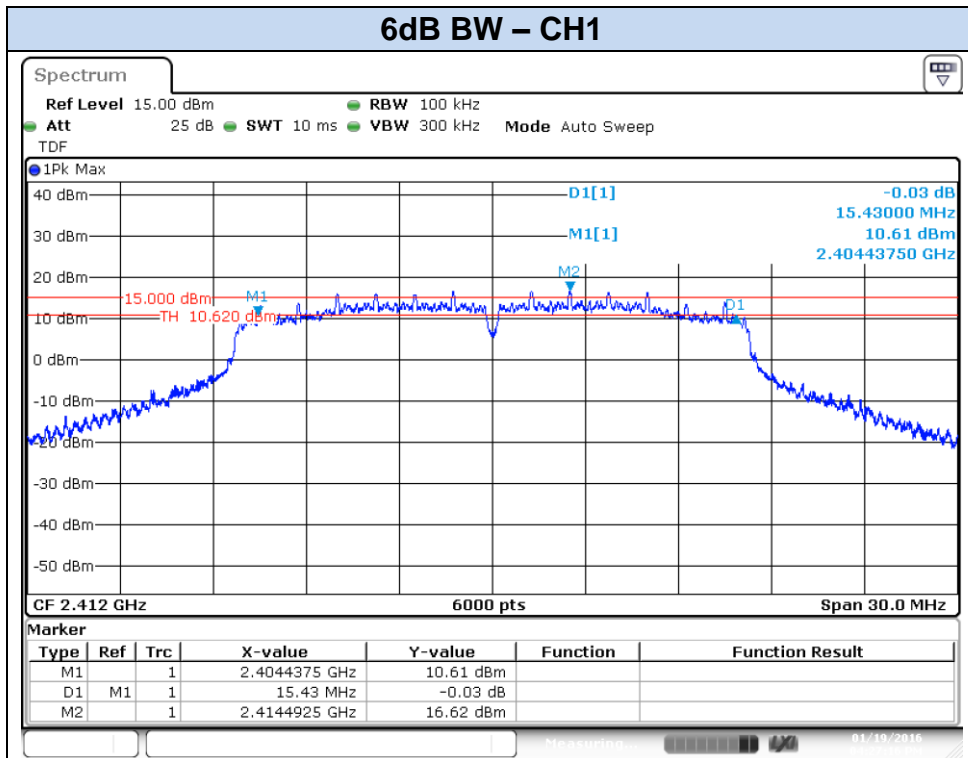




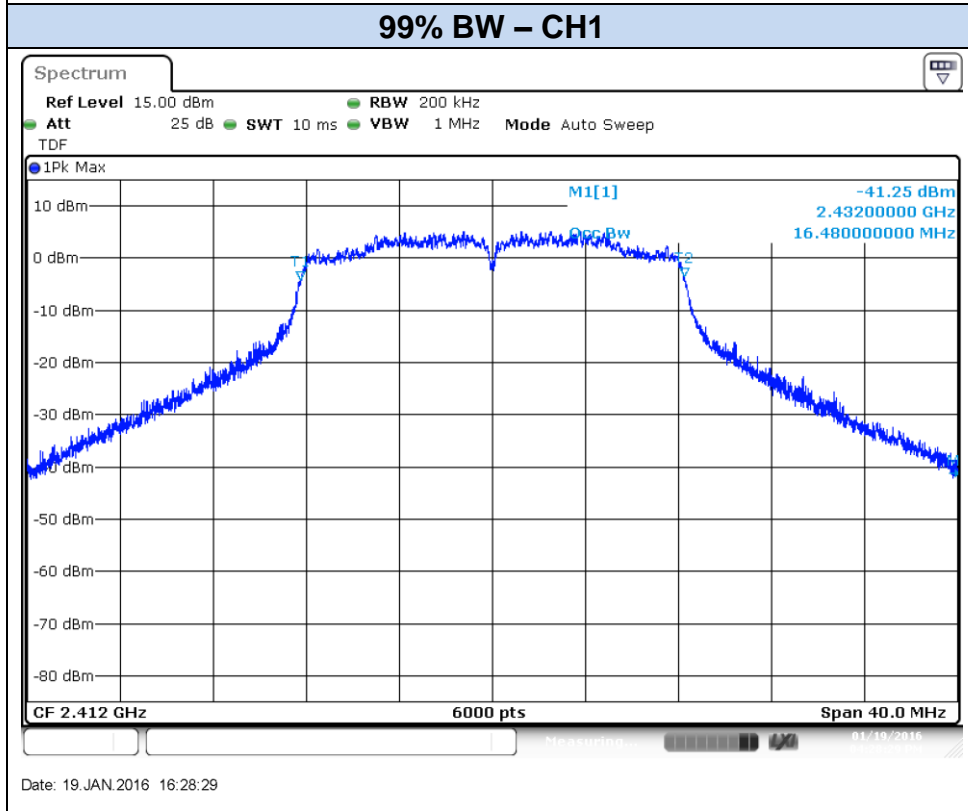




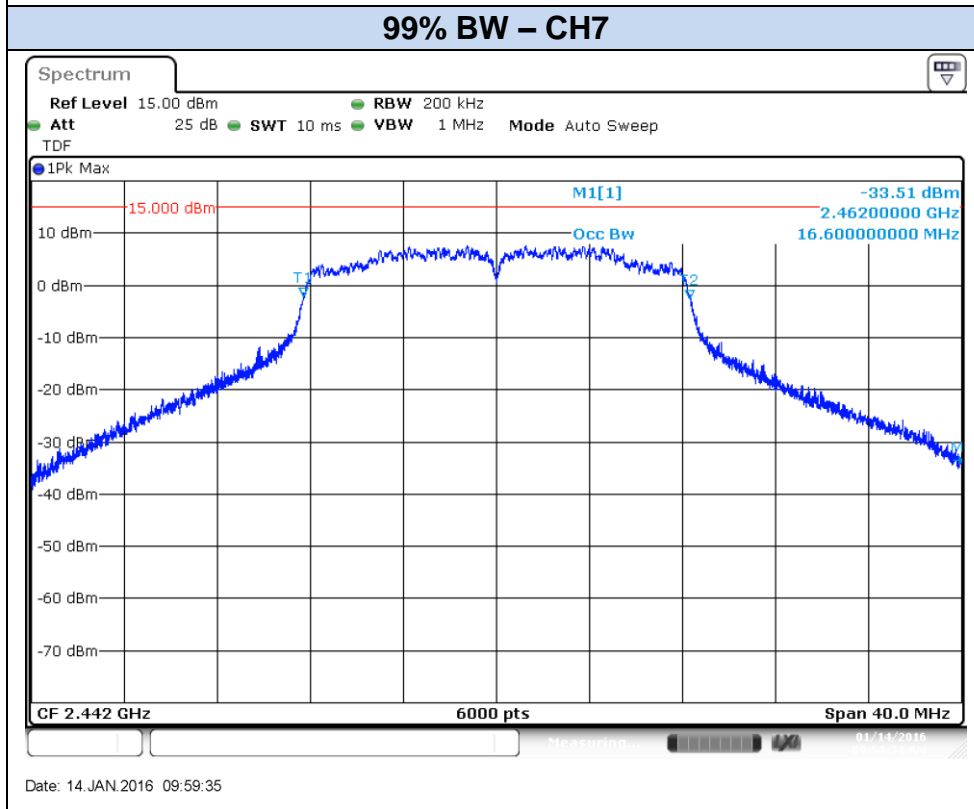
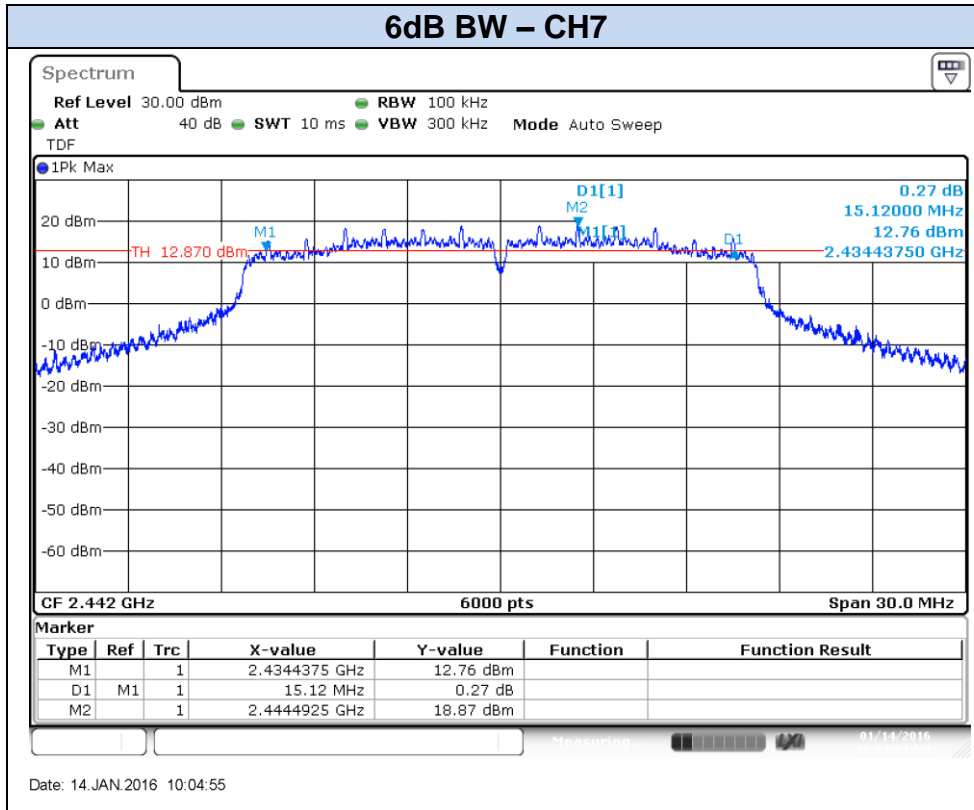
**802.11g, 6Mbps (SISO) – Chain A**

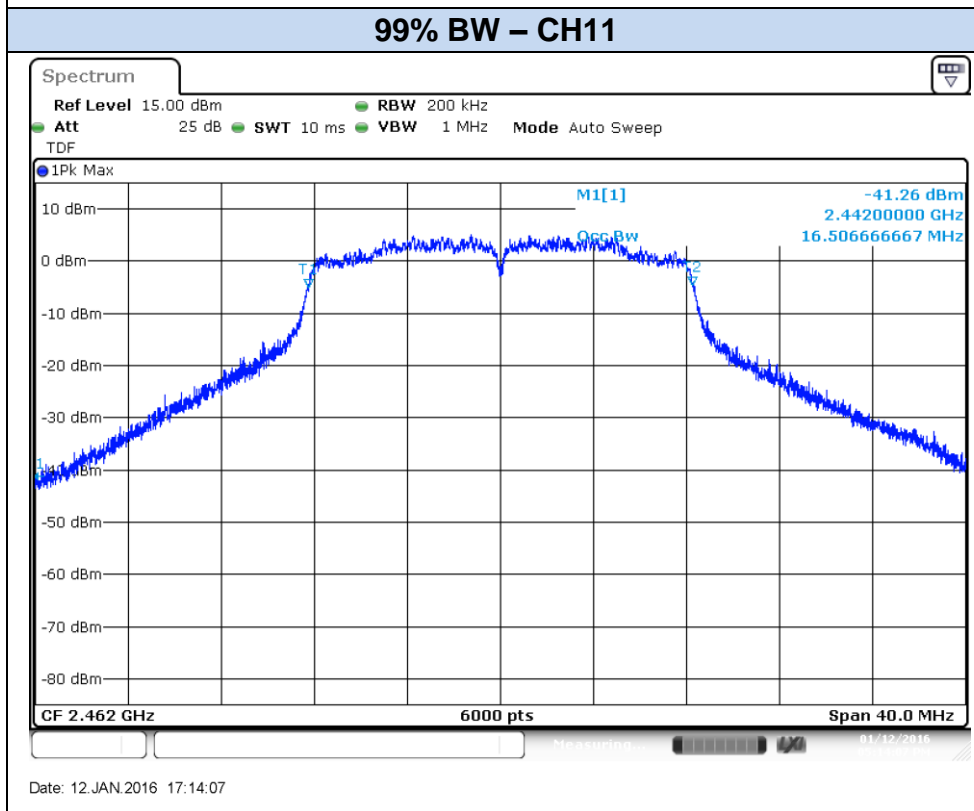
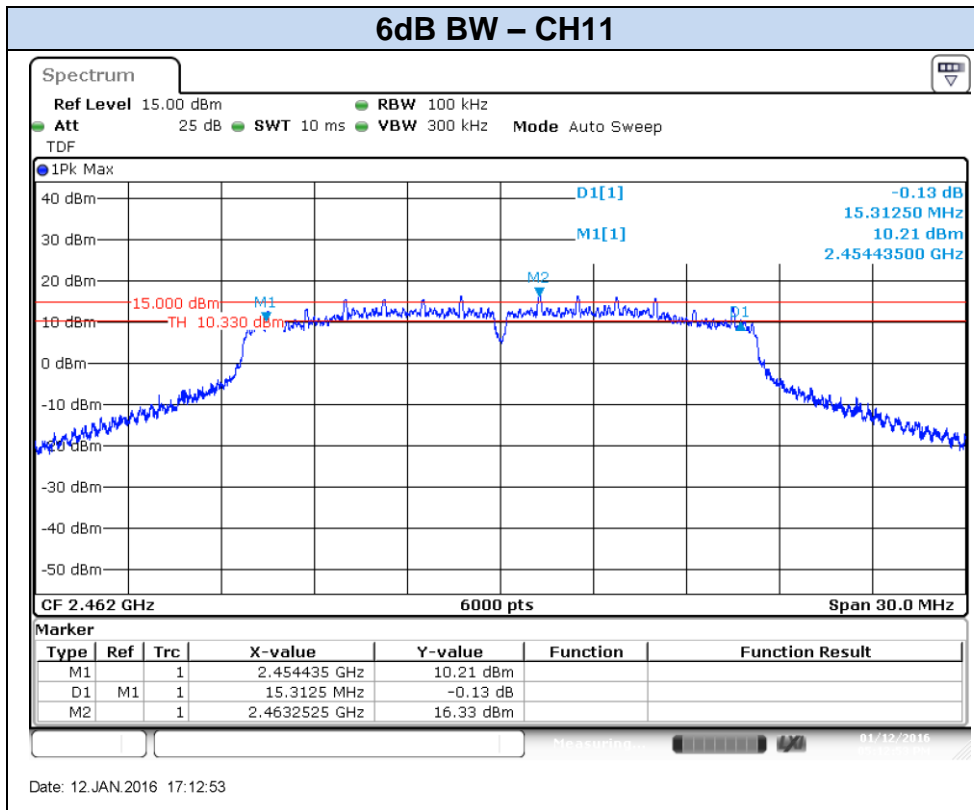


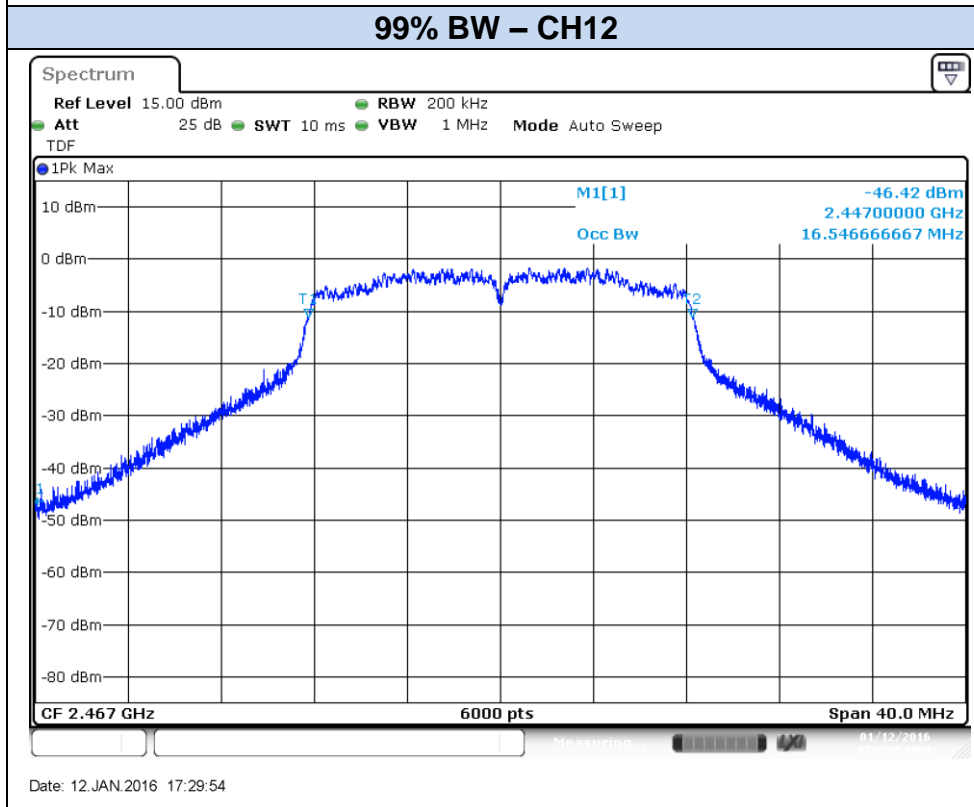
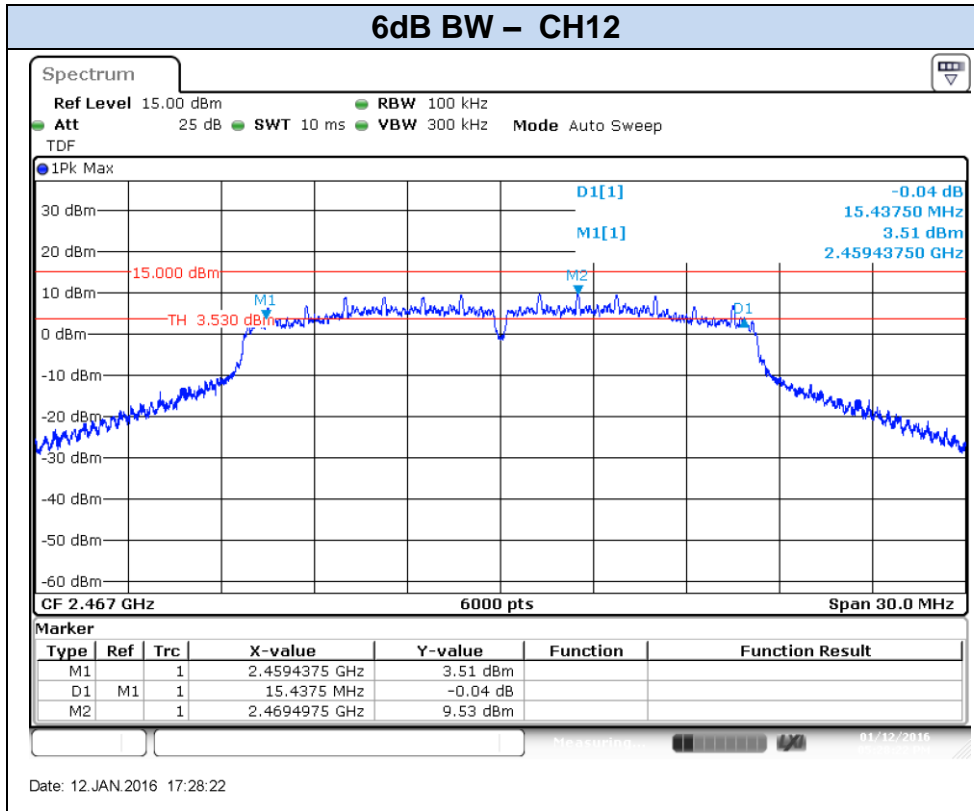
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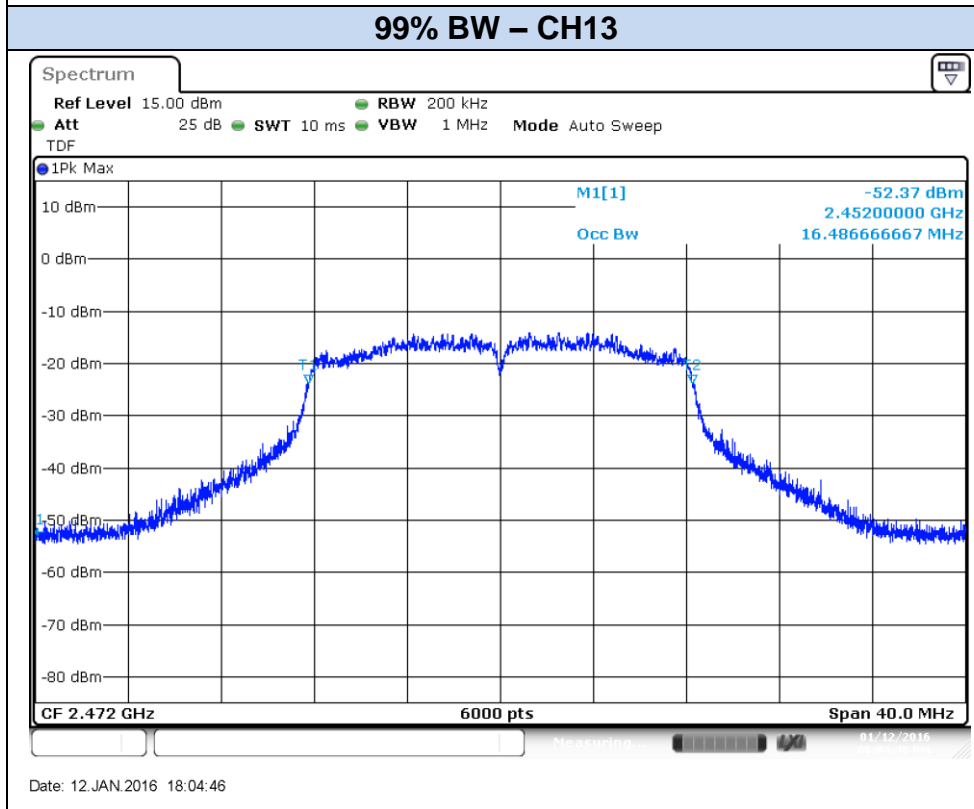
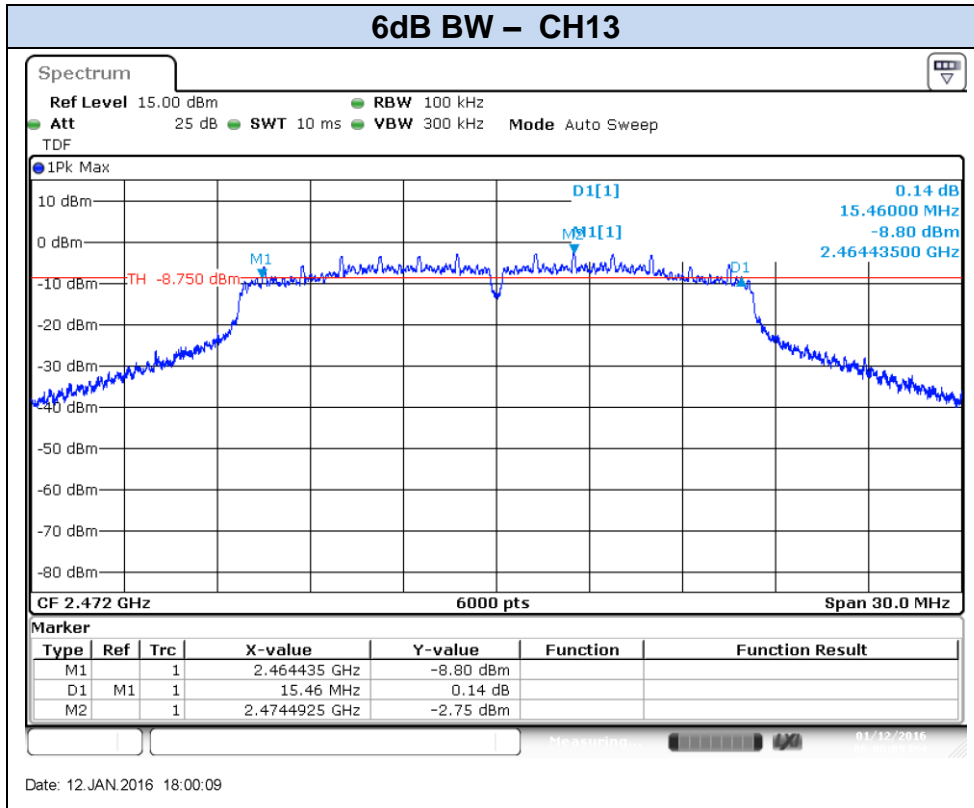


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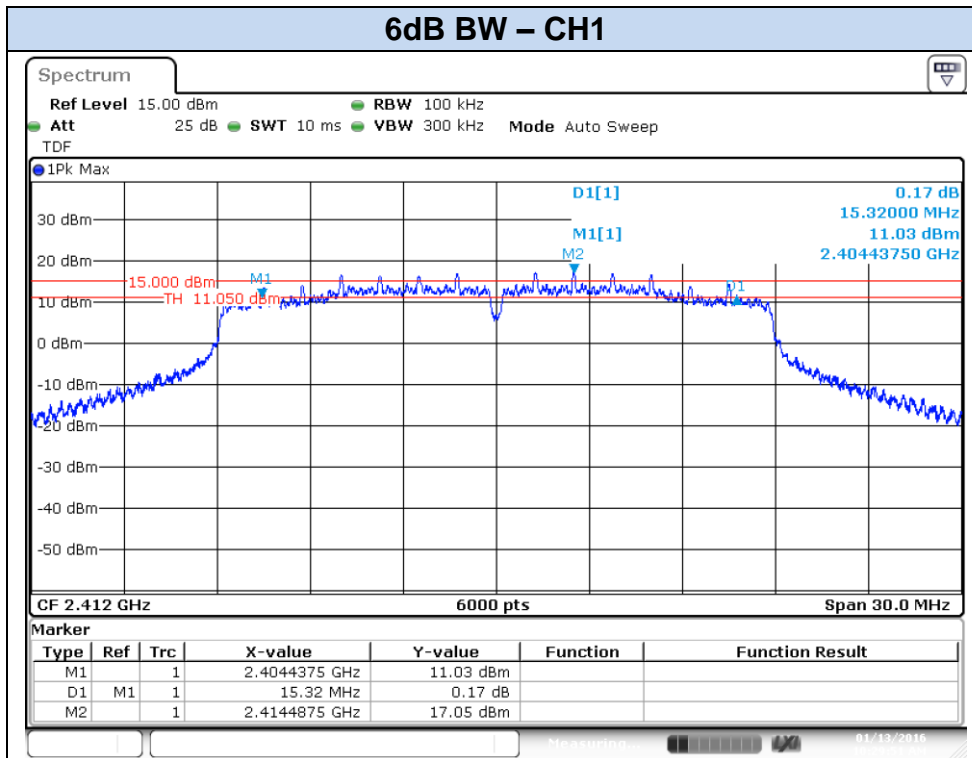




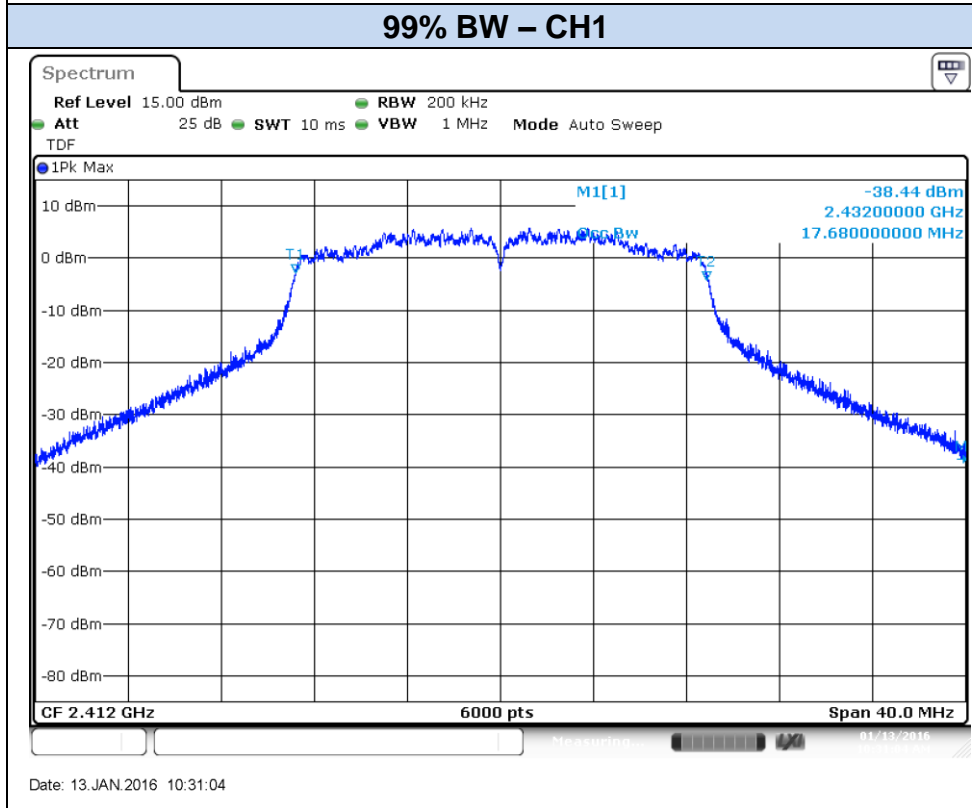




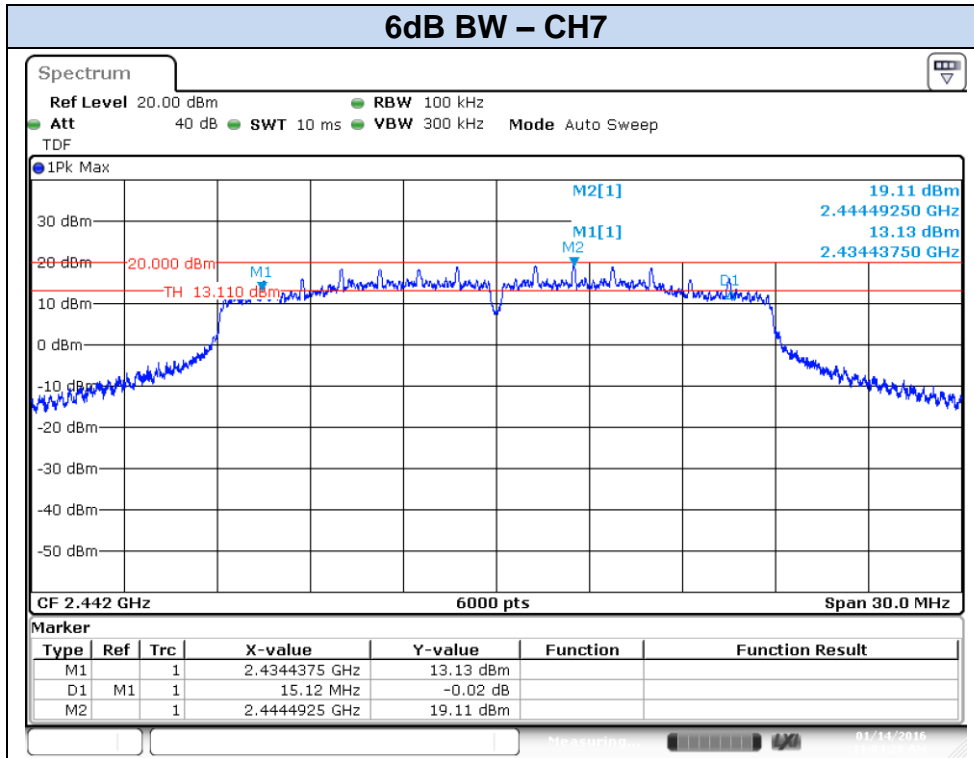
## 802.11n20, HT0 (SISO) – Chain A



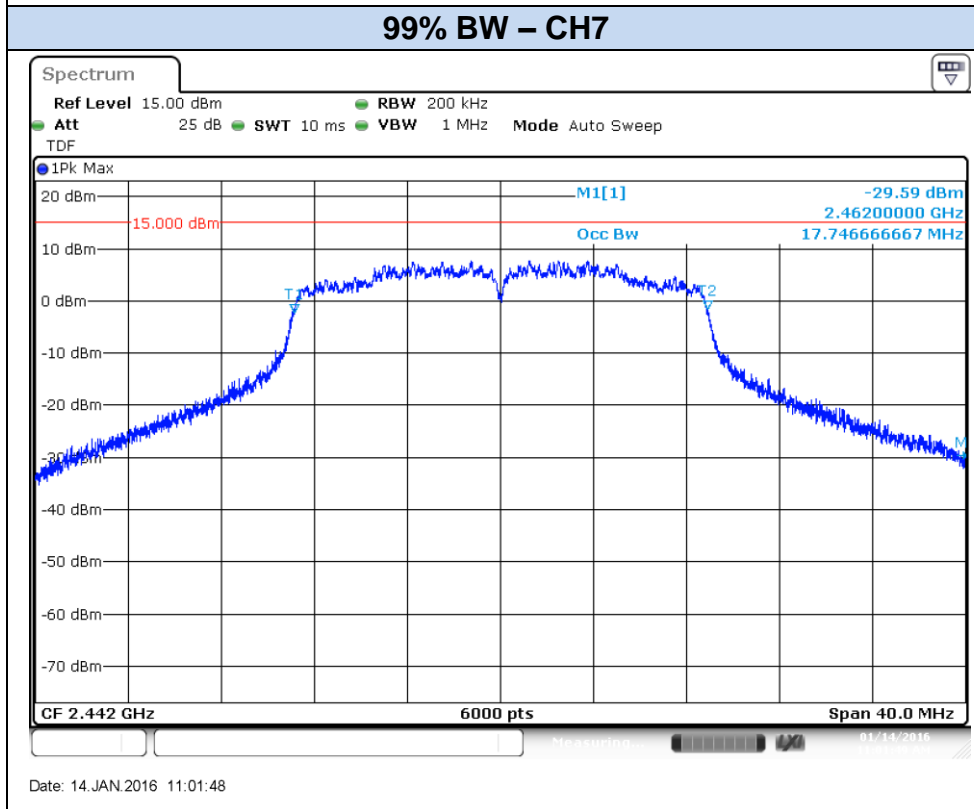
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Date: 13.JAN.2016 10:31:04

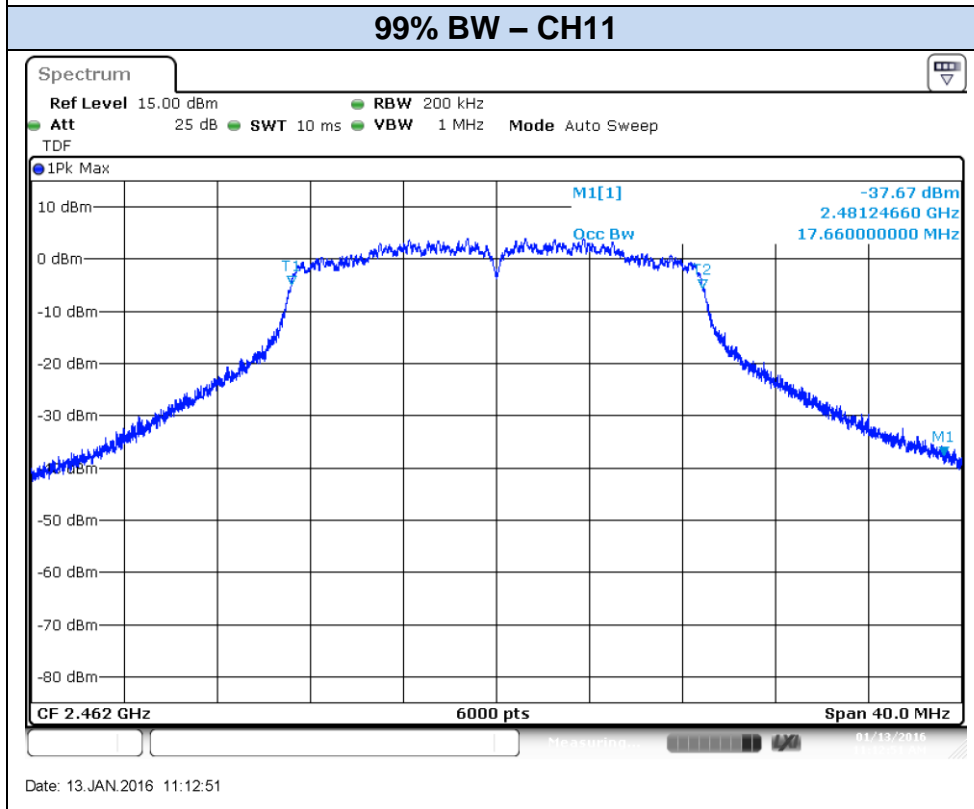
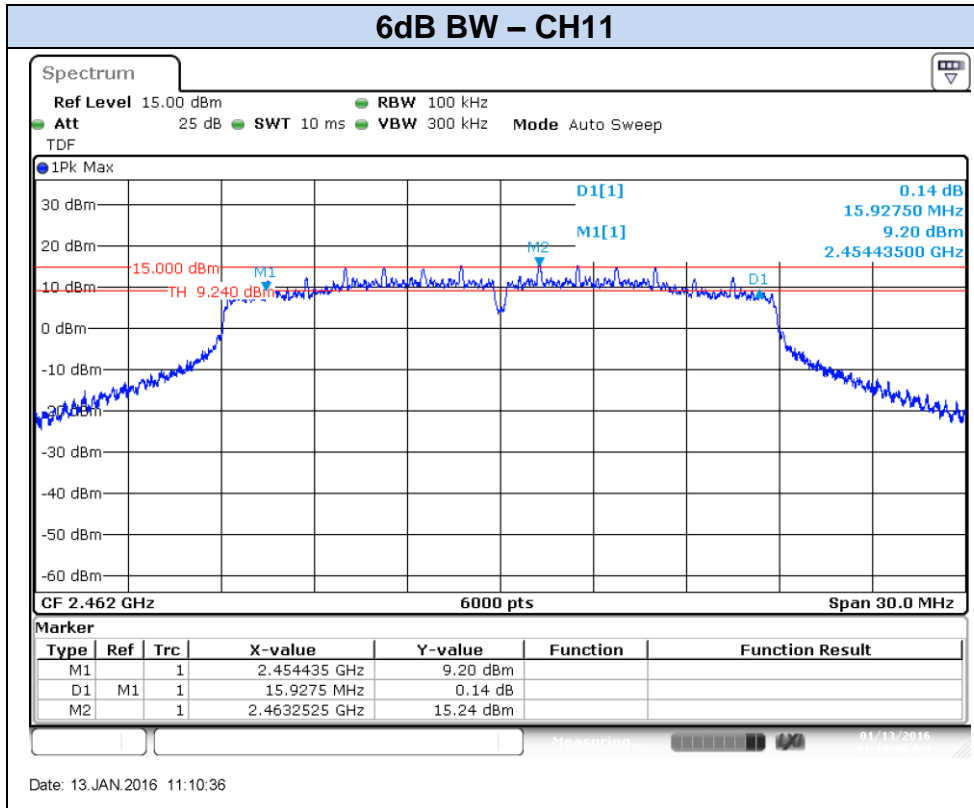


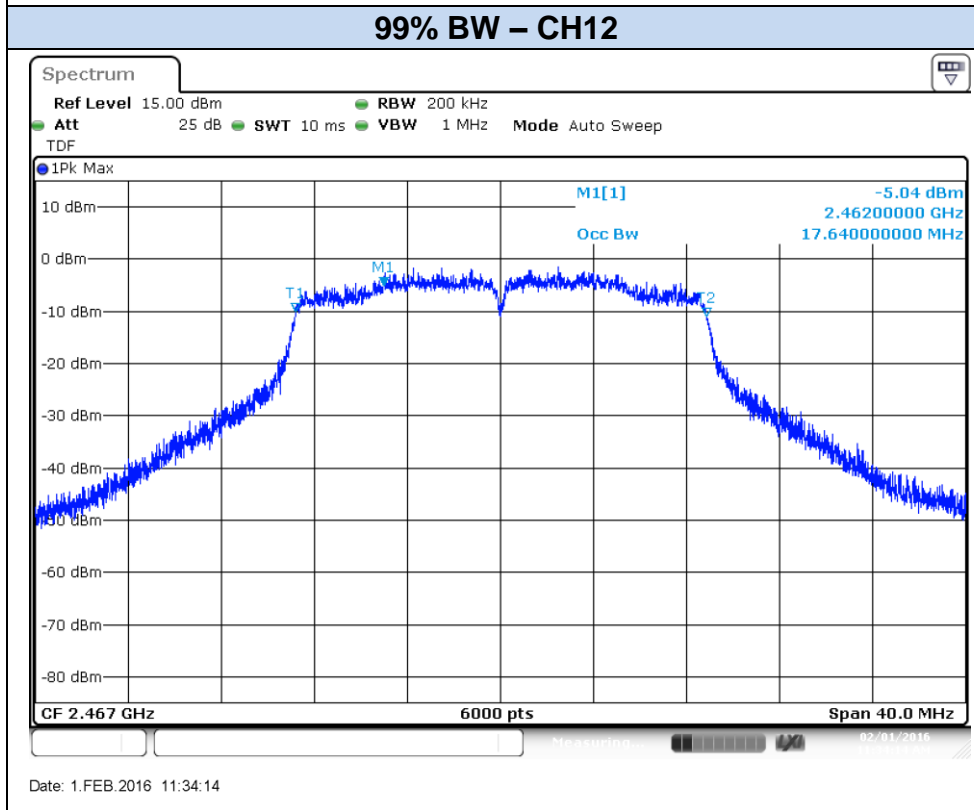
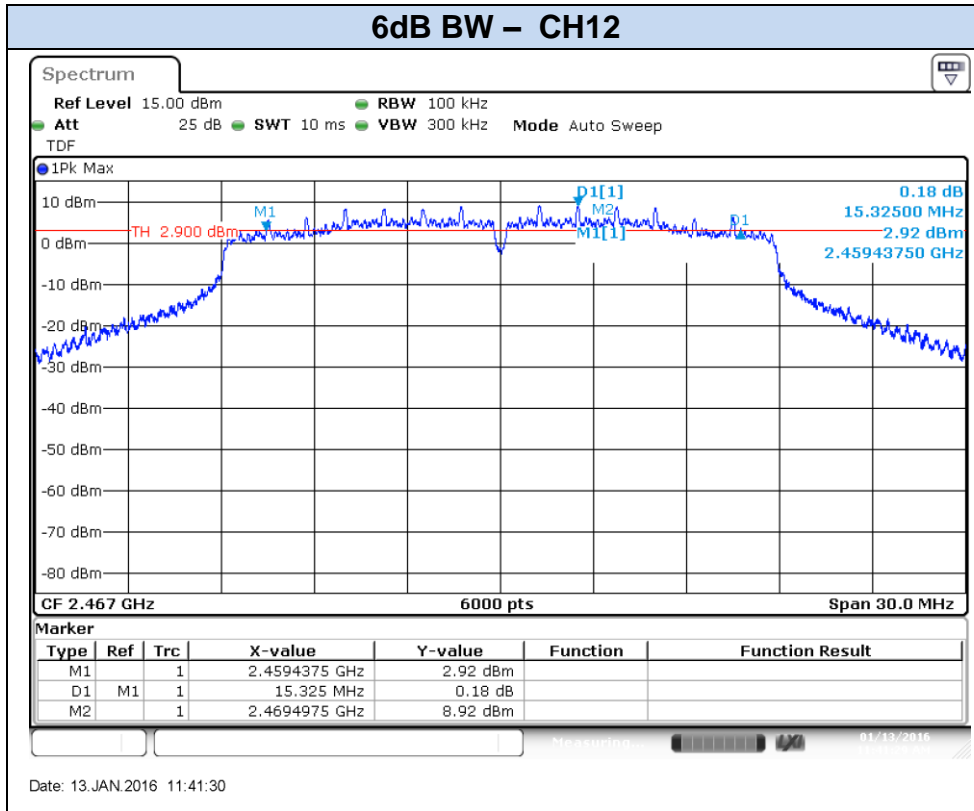
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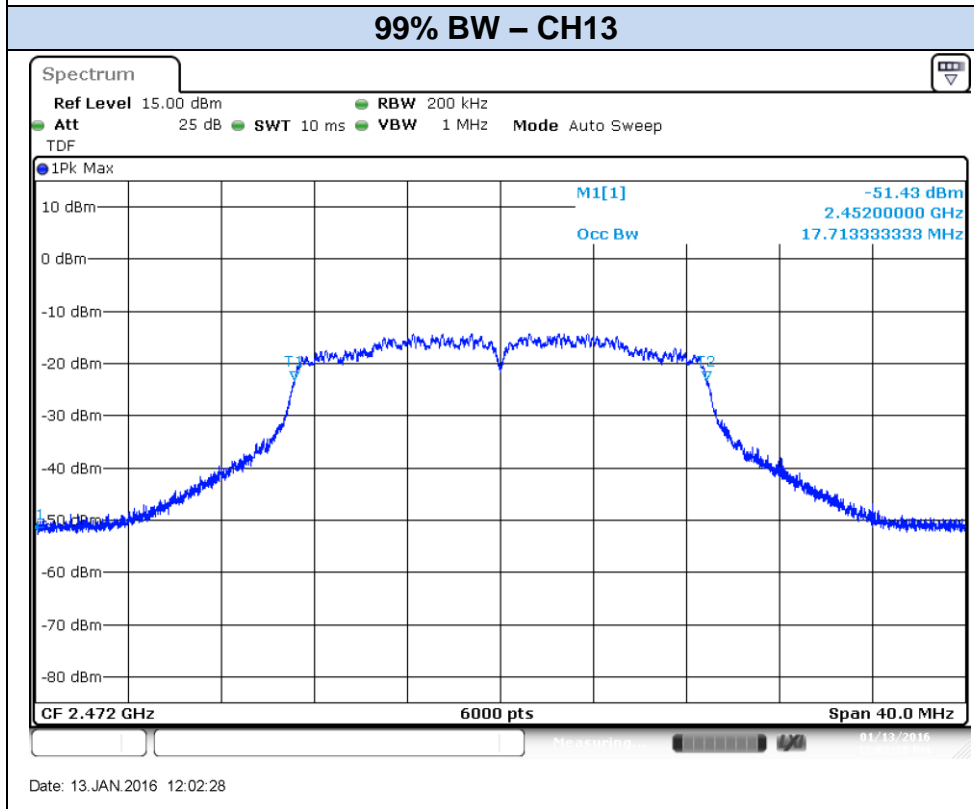
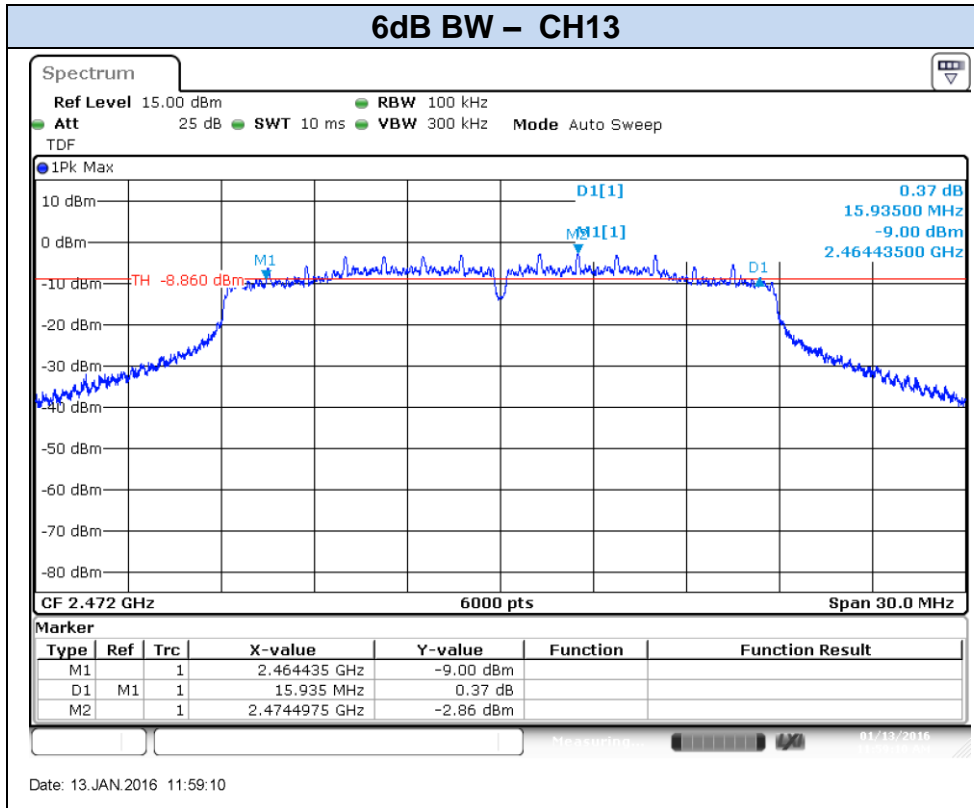


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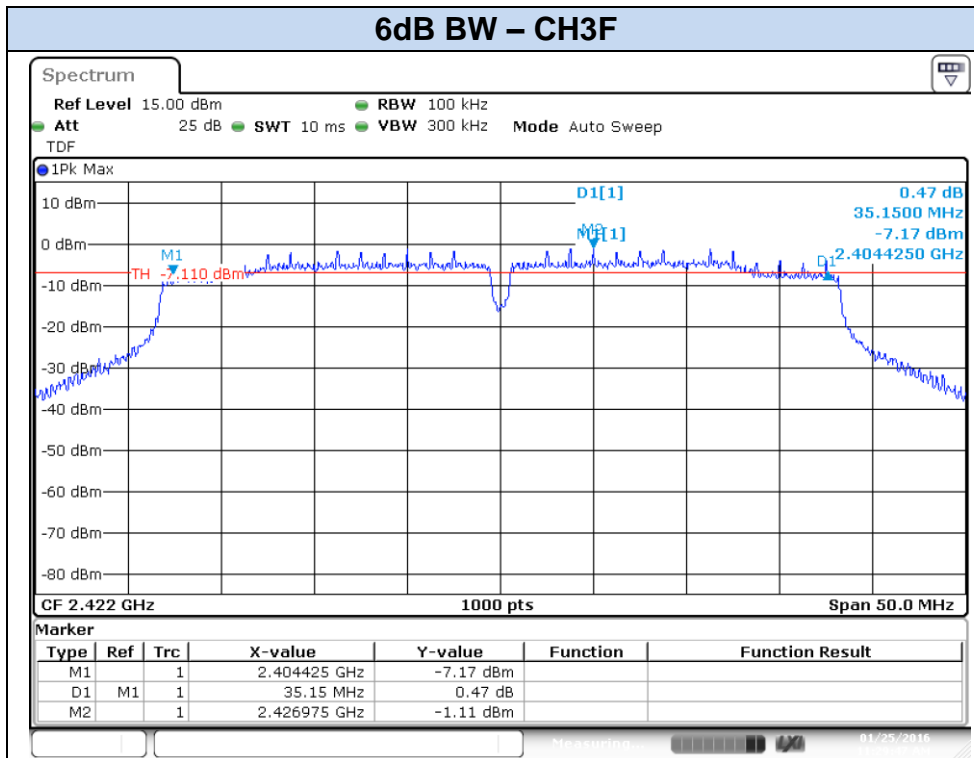




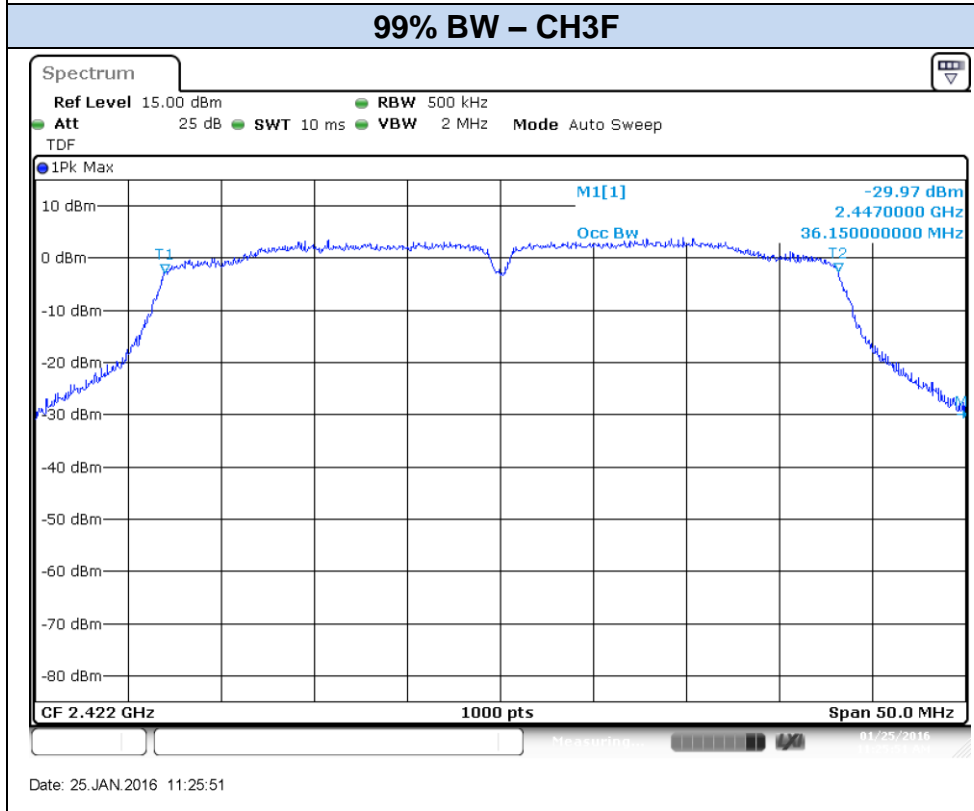




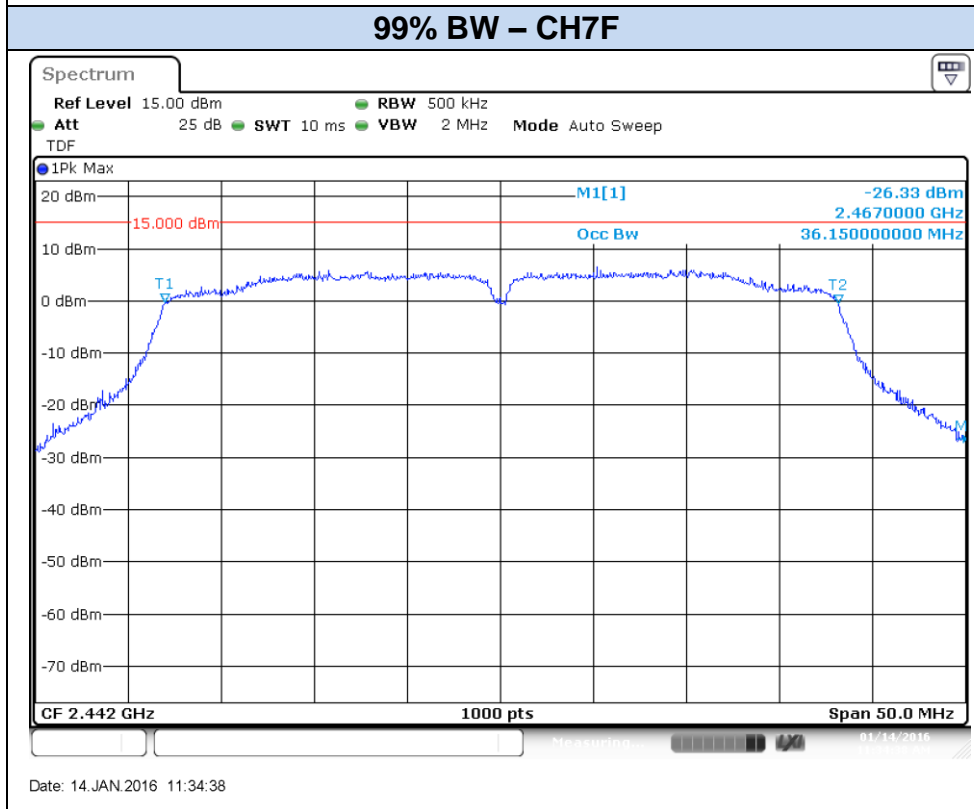
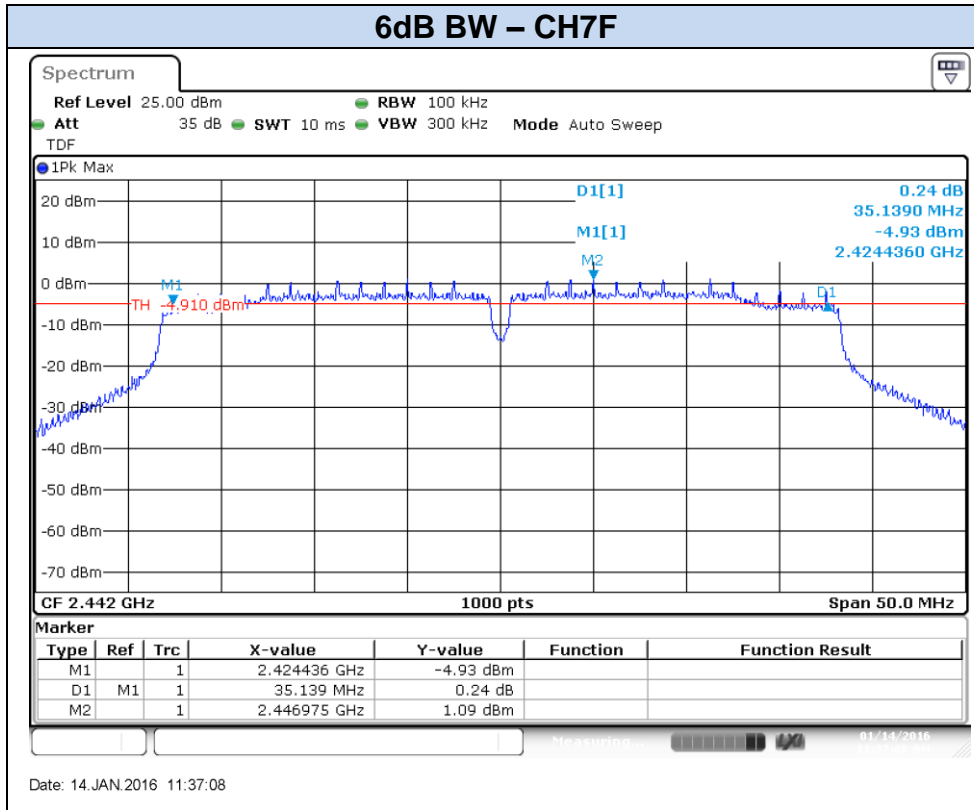
## 802.11n40, HT0 (SISO) – Chain A

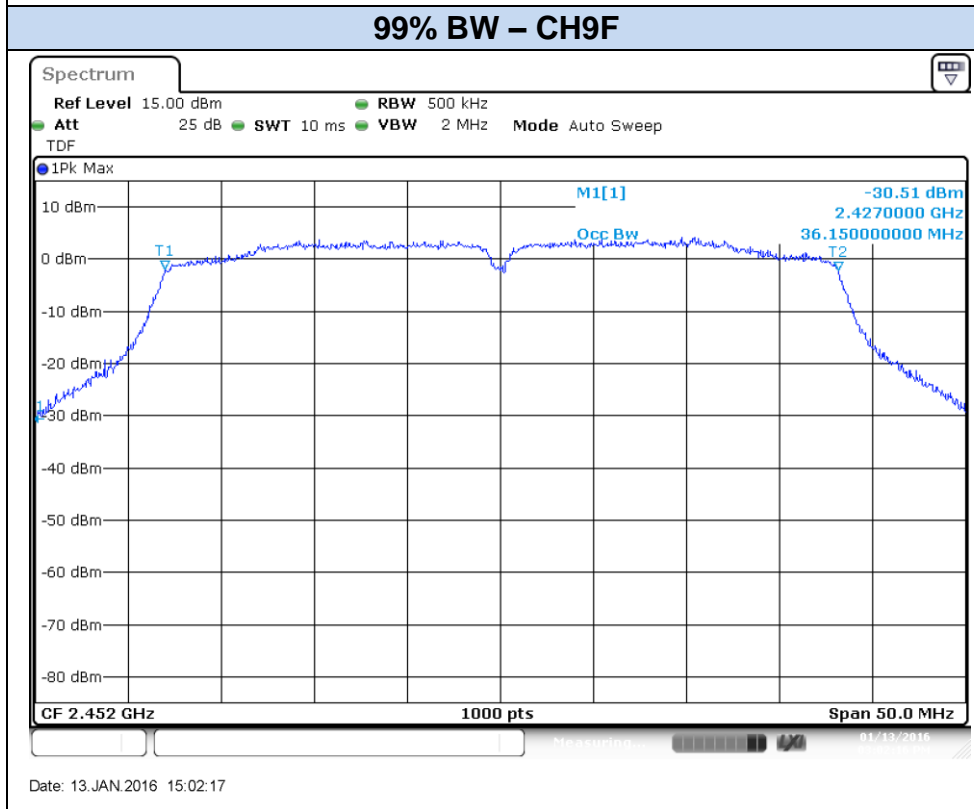
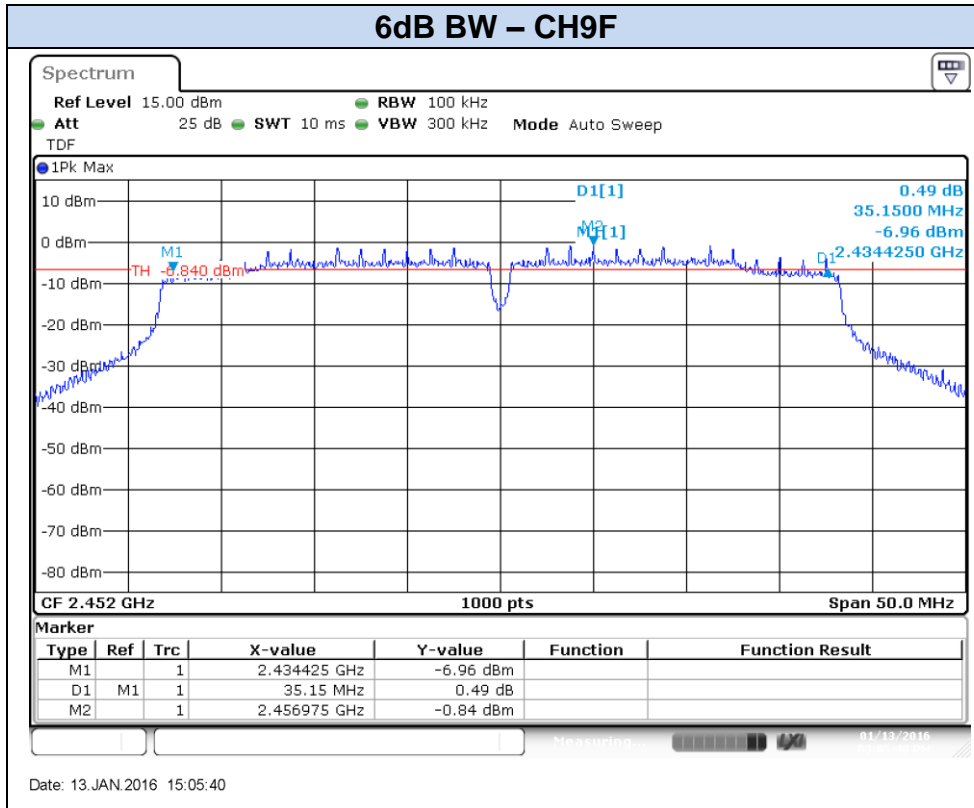


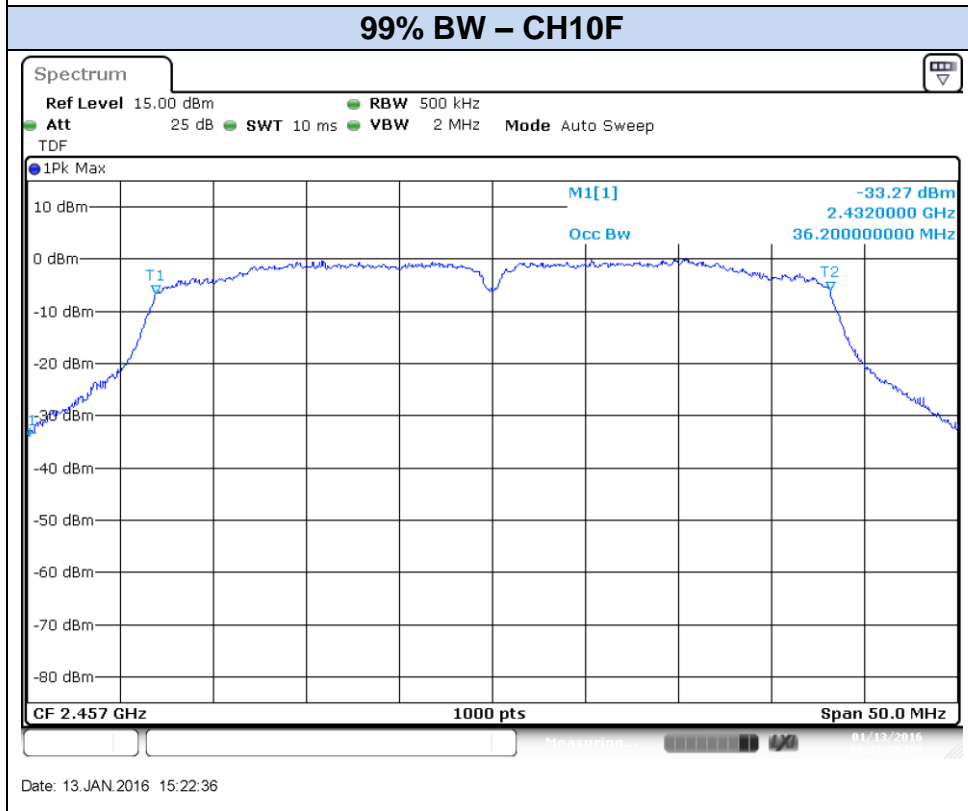
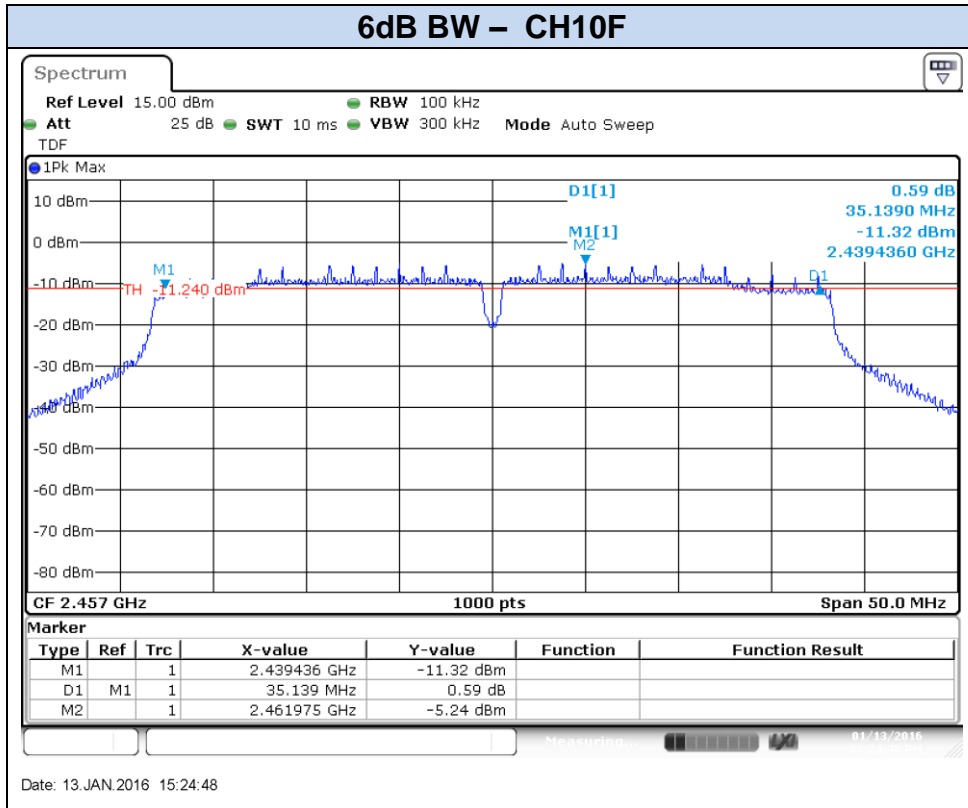
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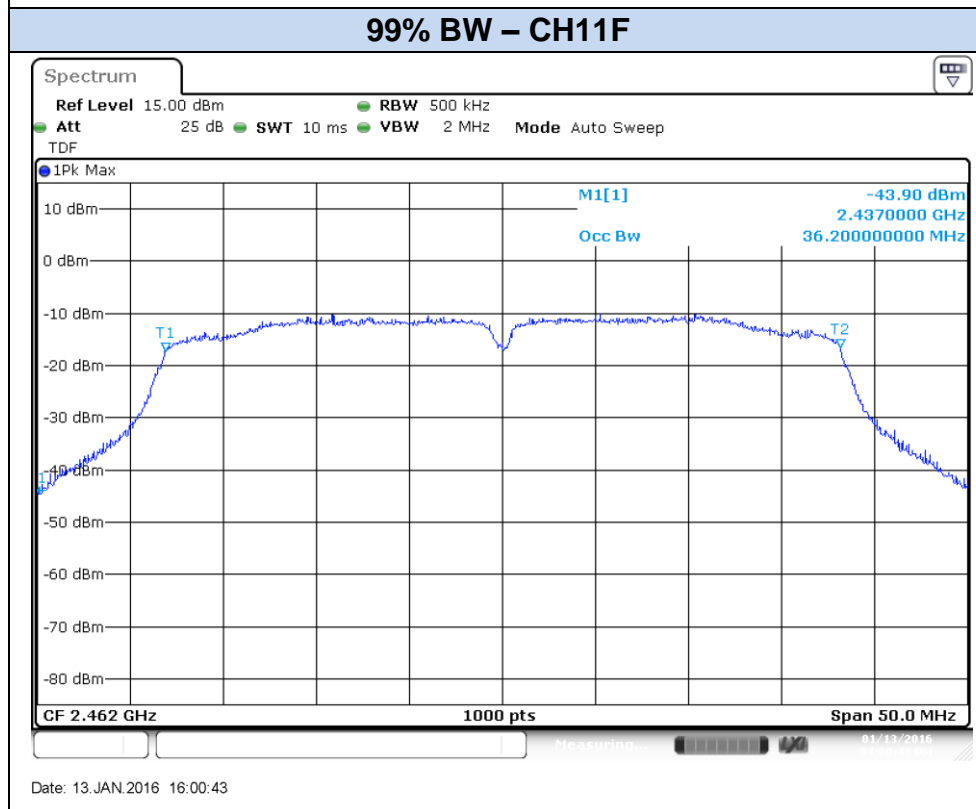
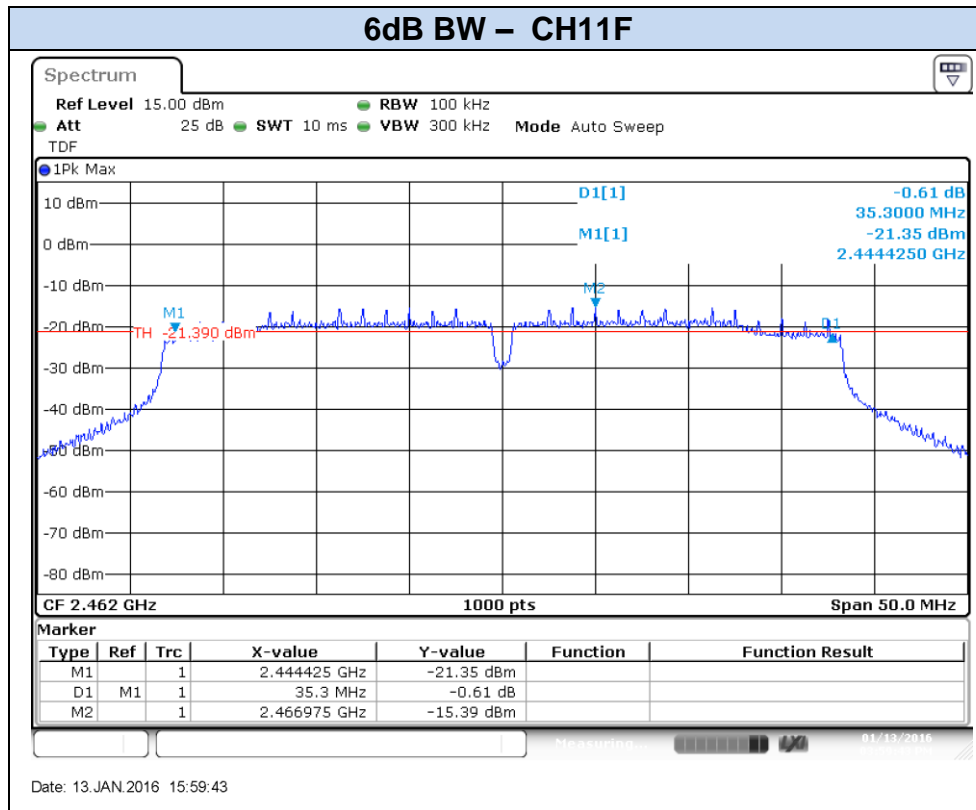


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## B.2 Maximum Output Power and E.I.R.P.

### Test limits:

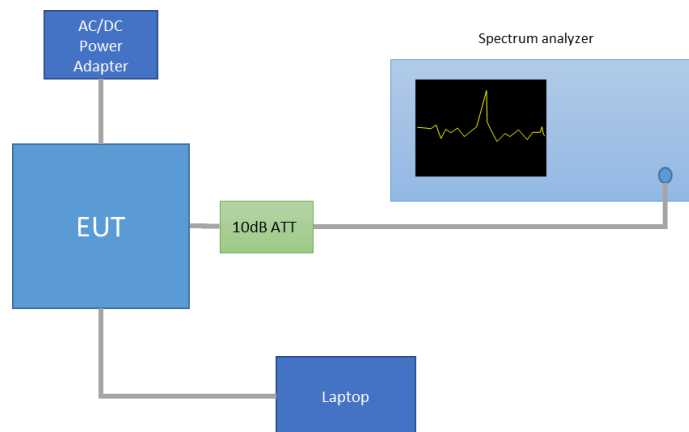
FCC part	RSS part	Limits
15.247 (b) (3)	RSS-247 Clause 5.4 (4)	<p>(b) The maximum peak conducted output power of the intentional radiator shall not exceed the following:</p> <p>(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level.</p> <p>(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi.</p>

### Test procedure:

The Maximum Peak Conducted Output Power was measured using the channel integration method as authorized in chapter 2.0 “Power limits, definitions and device configuration” of FCC KDB 558074 D01.

The EIRP power (dBm) is calculated by adding the declared maximum antenna gain to the measured conducted power. The declared maximum antenna gain is 3dBi.

The setup below was used to measure the maximum conducted output power. The antenna terminal of the EUT is connected to the spectrum analyzer through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.



**Results tables:**

**Maximum Peak Conducted Output Power values**

Mode	Rate	Meas. Duty Cycle [%]	CH	Frequency [MHz]	Antenna	Measured Conducted Peak Output power [dBm]	EIRP [dBm]	Peak Output Power [mW]
802.11b	1Mbps	98.6	1	2412	SISO CHAIN A	19.59	22.59	90.99
			7	2437	SISO CHAIN A	20.60	23.60	114.82
			11	2462	SISO CHAIN A	20.02	23.02	100.46
			12	2467	SISO CHAIN A	14.86	17.86	30.62
			13	2472	SISO CHAIN A	11.97	14.97	15.74
802.11g	6Mbps	98.0	1	2412	SISO CHAIN A	23.24	26.24	210.86
			7	2437	SISO CHAIN A	25.35	28.35	342.77
			11	2462	SISO CHAIN A	22.82	25.82	191.43
			12	2467	SISO CHAIN A	17.01	20.01	50.23
			13	2472	SISO CHAIN A	5.76	8.76	3.77
802.11n20	HT0	98.4	1	2412	SISO CHAIN A	23.56	26.56	226.99
			7	2437	SISO CHAIN A	25.49	28.49	354.00
			11	2462	SISO CHAIN A	21.79	24.79	151.01
			12	2467	SISO CHAIN A	16.30	19.30	42.66
			13	2472	SISO CHAIN A	5.47	8.47	3.52
802.11n40	HT0	97.5	3F	2422	SISO CHAIN A	21.21	24.21	132.13
			7F	2437	SISO CHAIN A	23.30	26.30	213.80
			9F	2452	SISO CHAIN A	21.65	24.65	146.22
			10F	2457	SISO CHAIN A	16.86	19.86	48.53
			11F	2462	SISO CHAIN A	8.69	11.69	7.40

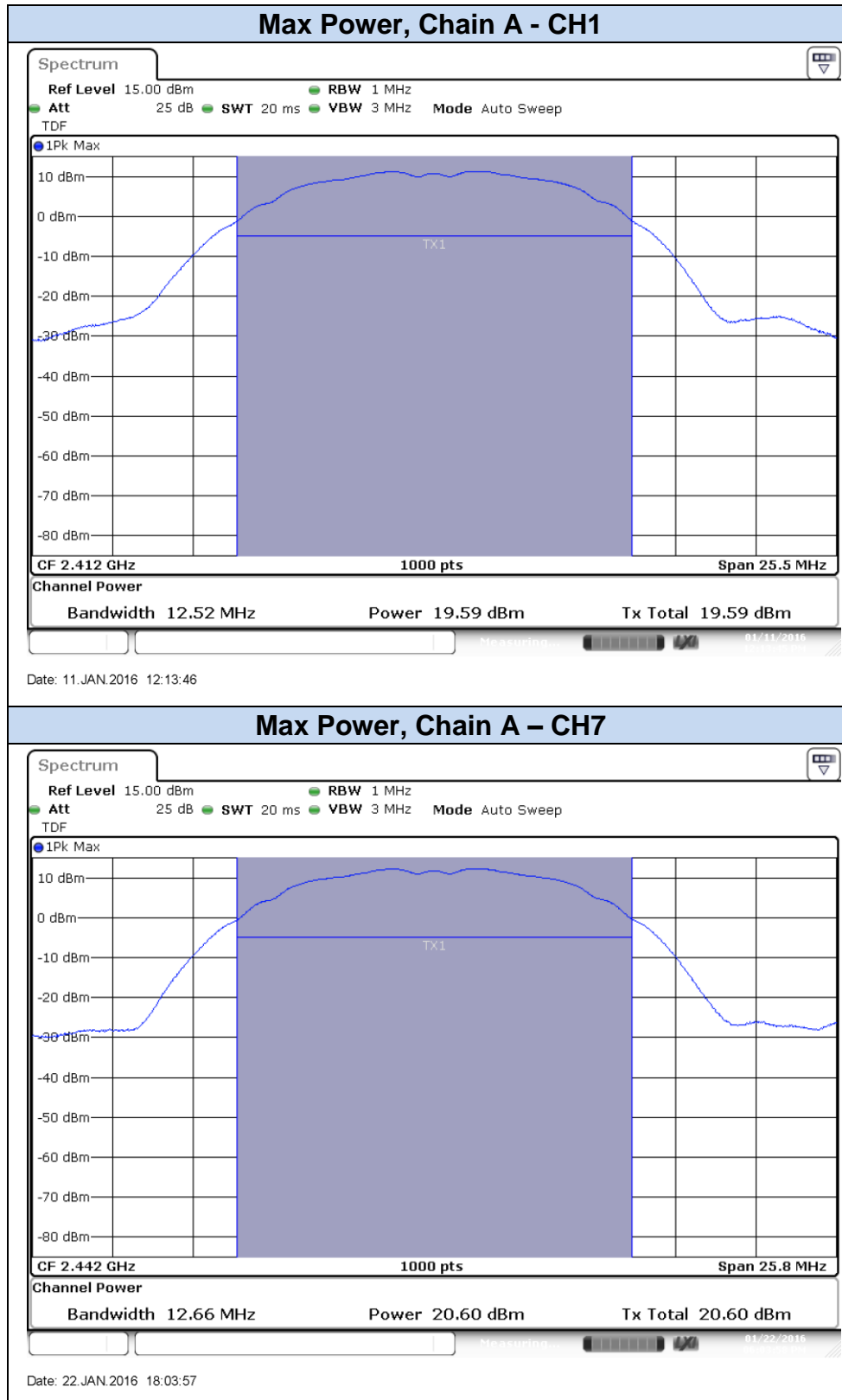
Max Value  
Min Value

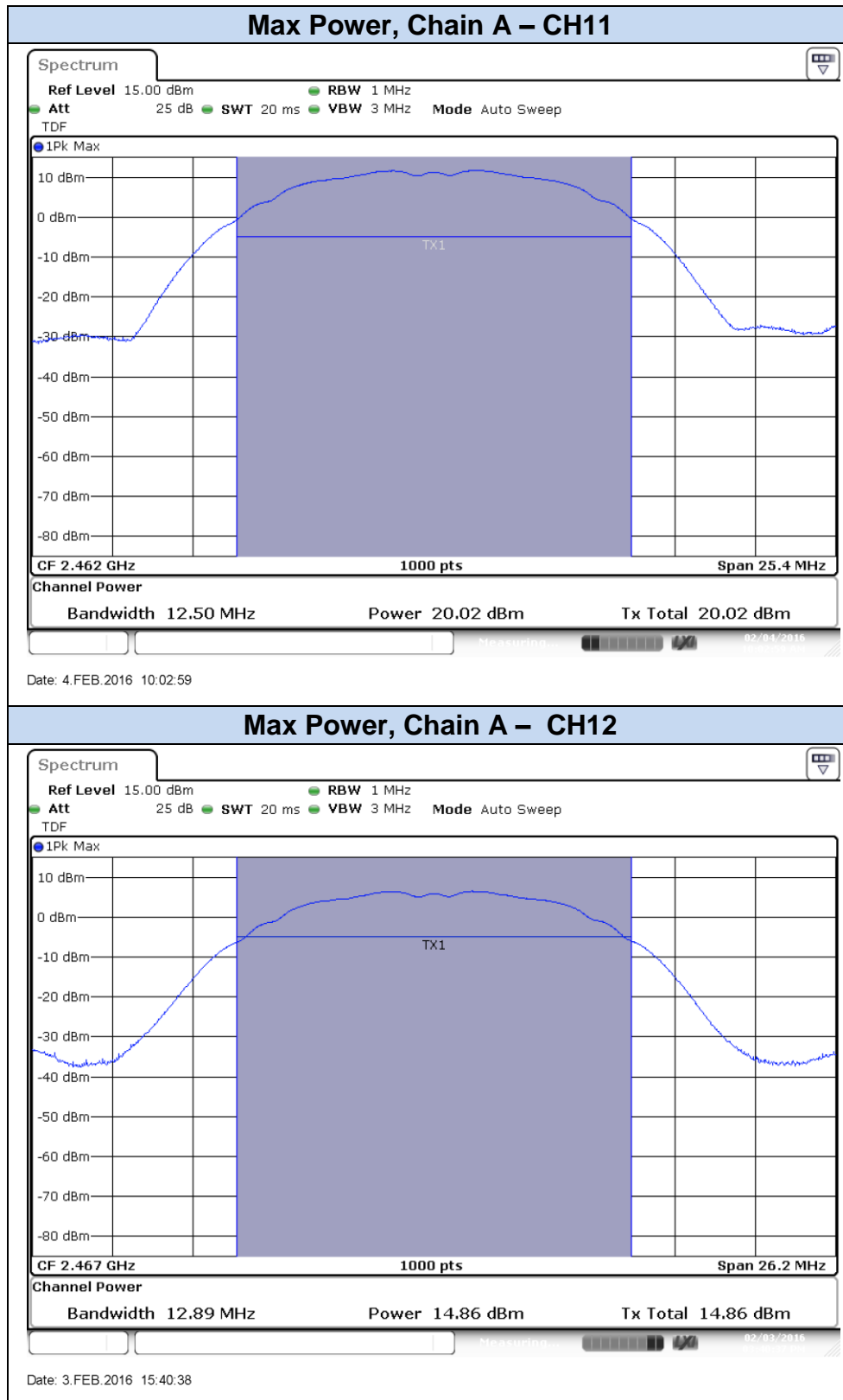
**Maximum (average) Conducted Output Power values (for informative purpose only)**

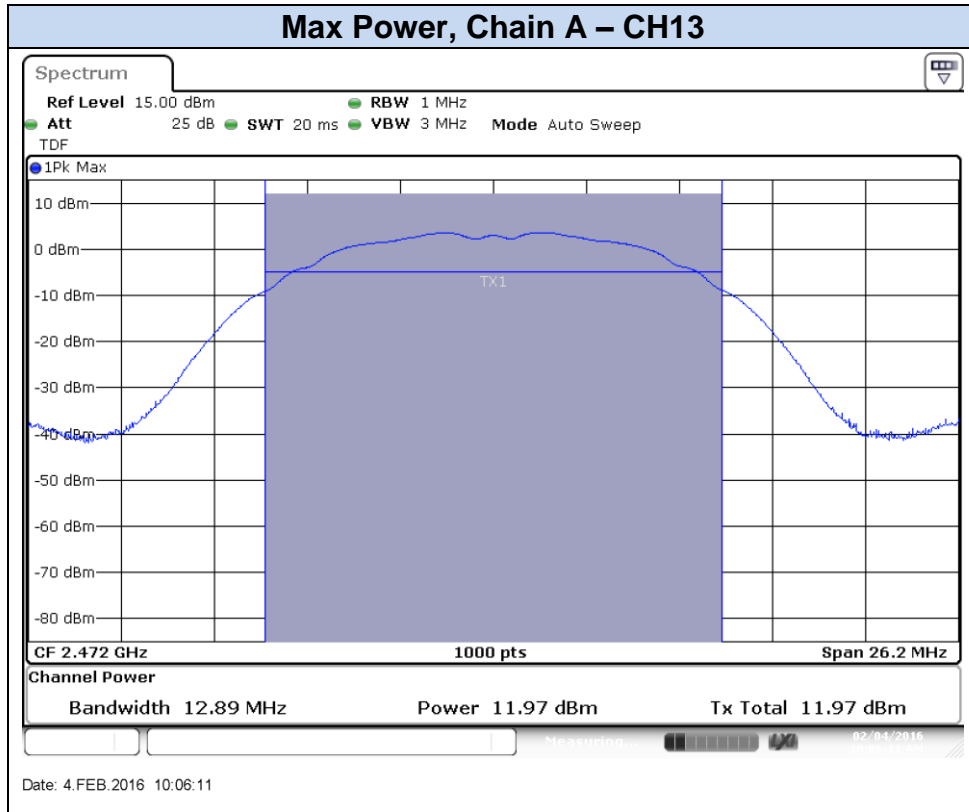
Mode	Rate	Meas. Duty Cycle [%]	CH	Frequency [MHz]	Antenna	Maximum (average) Conducted Output Power [dBm]	Duty cycle Compensated	EIRP [dBm]	Average Output Power [mW]
802.11b	1Mbps	98.6	1	2412	SISO CHAIN A	16.46	16.52	19.52	44.90
			7	2437	SISO CHAIN A	17.47	17.53	20.53	<b>56.65</b>
			11	2462	SISO CHAIN A	16.77	16.83	19.83	48.22
			12	2467	SISO CHAIN A	11.59	11.65	14.65	14.63
			13	2472	SISO CHAIN A	8.68	8.74	11.74	<b>7.48</b>
802.11g	6Mbps	98	1	2412	SISO CHAIN A	15.65	15.74	18.74	37.48
			7	2437	SISO CHAIN A	16.72	16.81	19.81	<b>47.95</b>
			11	2462	SISO CHAIN A	14.28	14.37	17.37	27.34
			12	2467	SISO CHAIN A	8.42	8.51	11.51	7.09
			13	2472	SISO CHAIN A	-2.82	-2.73	0.27	<b>0.53</b>
802.11n20	HT0	98.4	1	2412	SISO CHAIN A	14.90	14.97	17.97	31.39
			7	2437	SISO CHAIN A	16.82	16.89	19.89	<b>48.85</b>
			11	2462	SISO CHAIN A	13.19	13.26	16.26	21.18
			12	2467	SISO CHAIN A	7.67	7.74	10.74	5.94
			13	2472	SISO CHAIN A	-2.88	-2.81	0.19	<b>0.52</b>
802.11n40	HT0	97.5	3F	2422	SISO CHAIN A	12.16	12.27	15.27	16.87
			7F	2437	SISO CHAIN A	14.32	14.43	17.43	<b>27.75</b>
			9F	2452	SISO CHAIN A	12.77	12.88	15.88	19.42
			10F	2457	SISO CHAIN A	7.90	8.01	11.01	6.33
			11F	2462	SISO CHAIN A	-0.20	-0.09	2.91	<b>0.98</b>

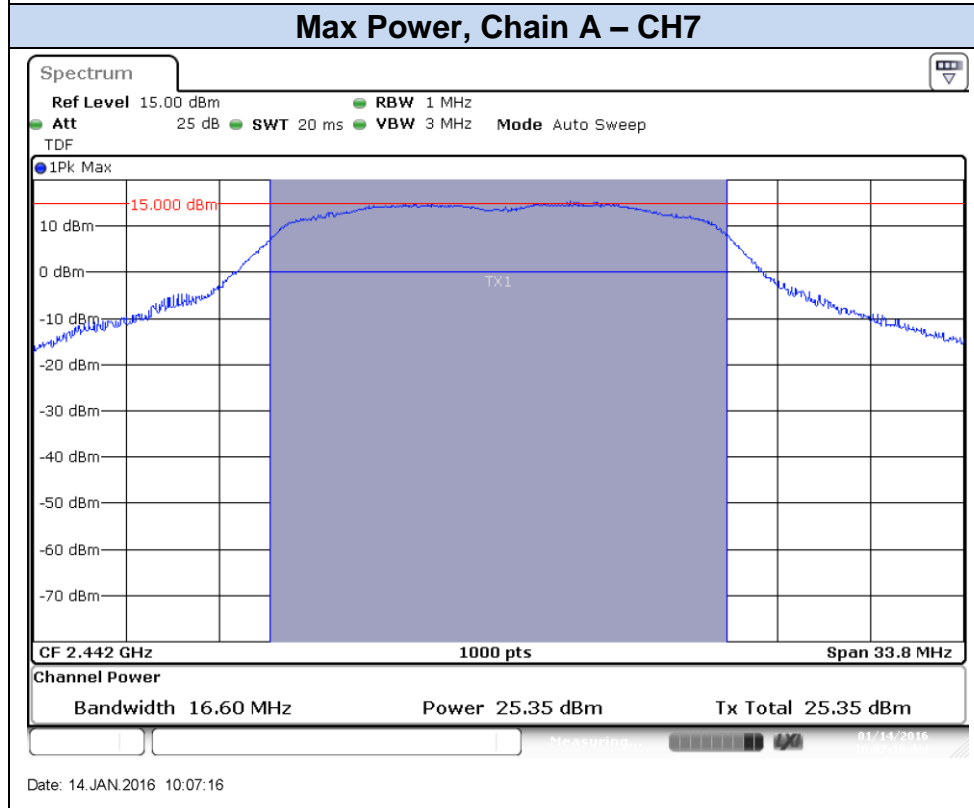
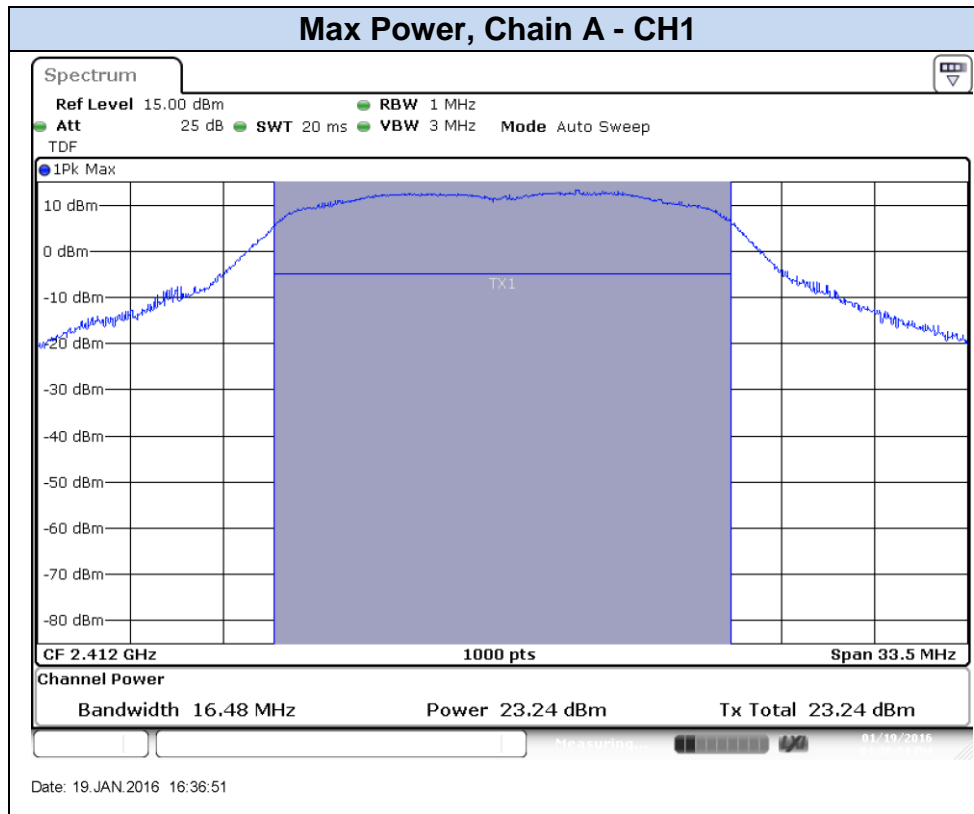
**Max Value**

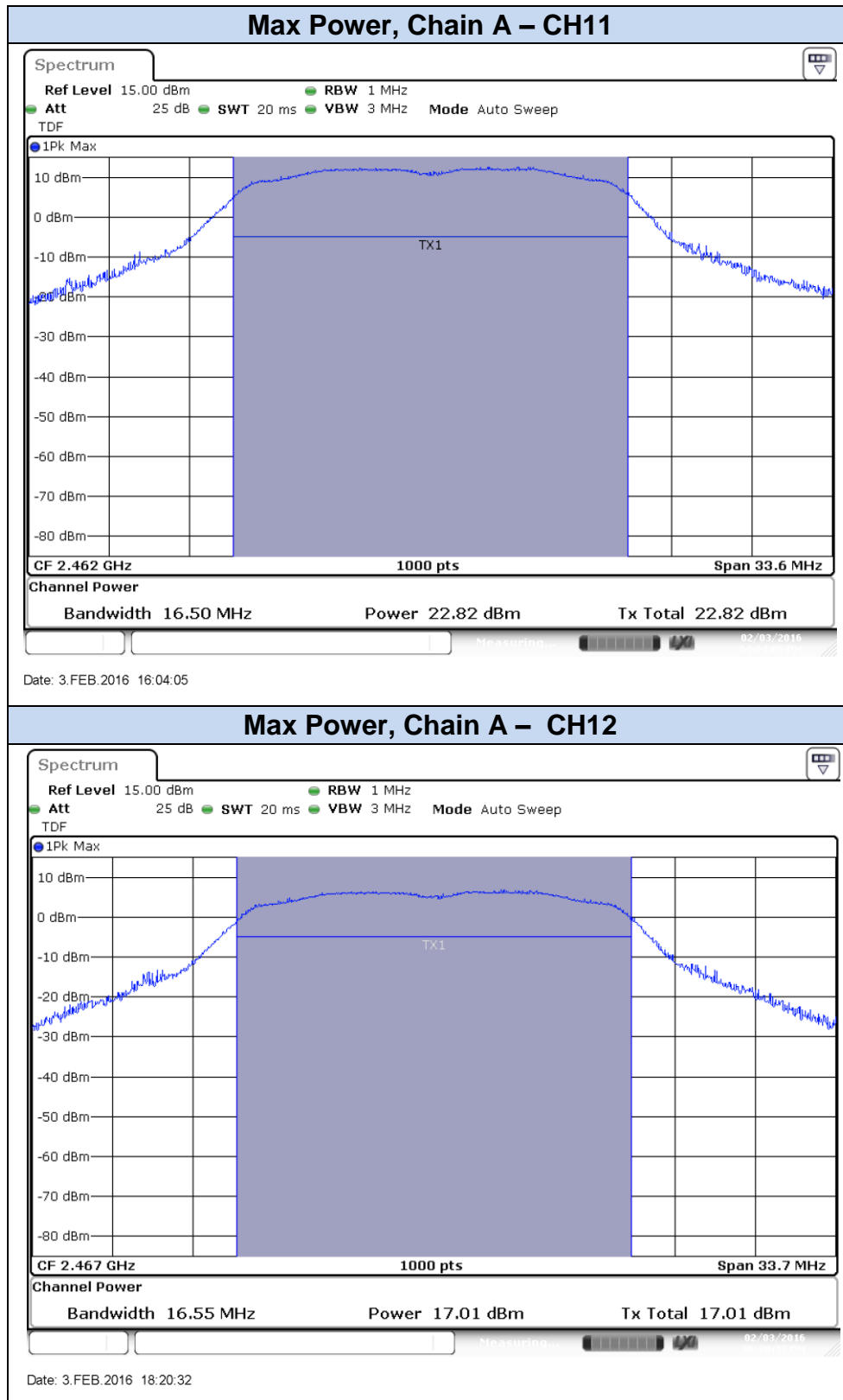
**Min Value**

**Results screenshot****802.11b, 1Mbps**

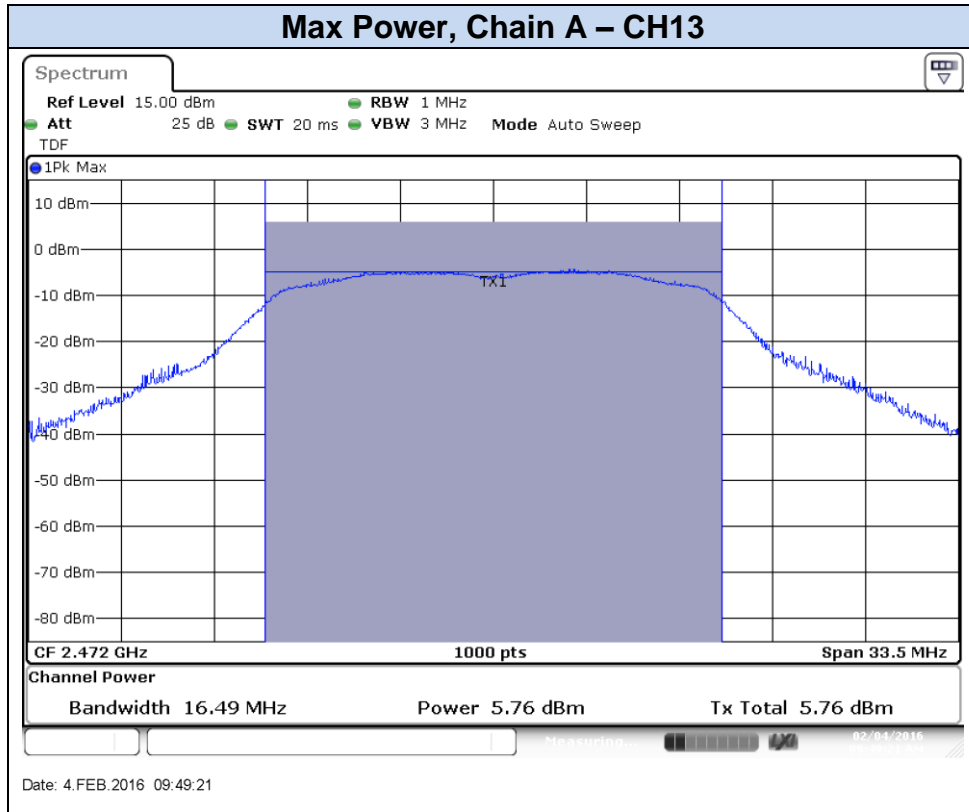


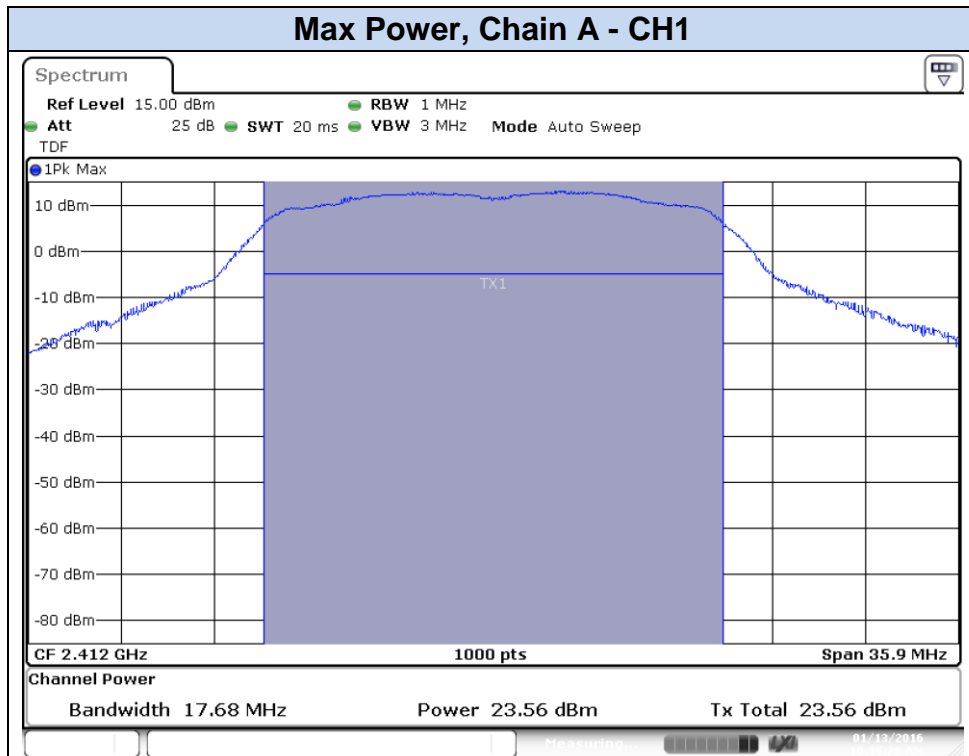


**802.11g, 6Mbps**

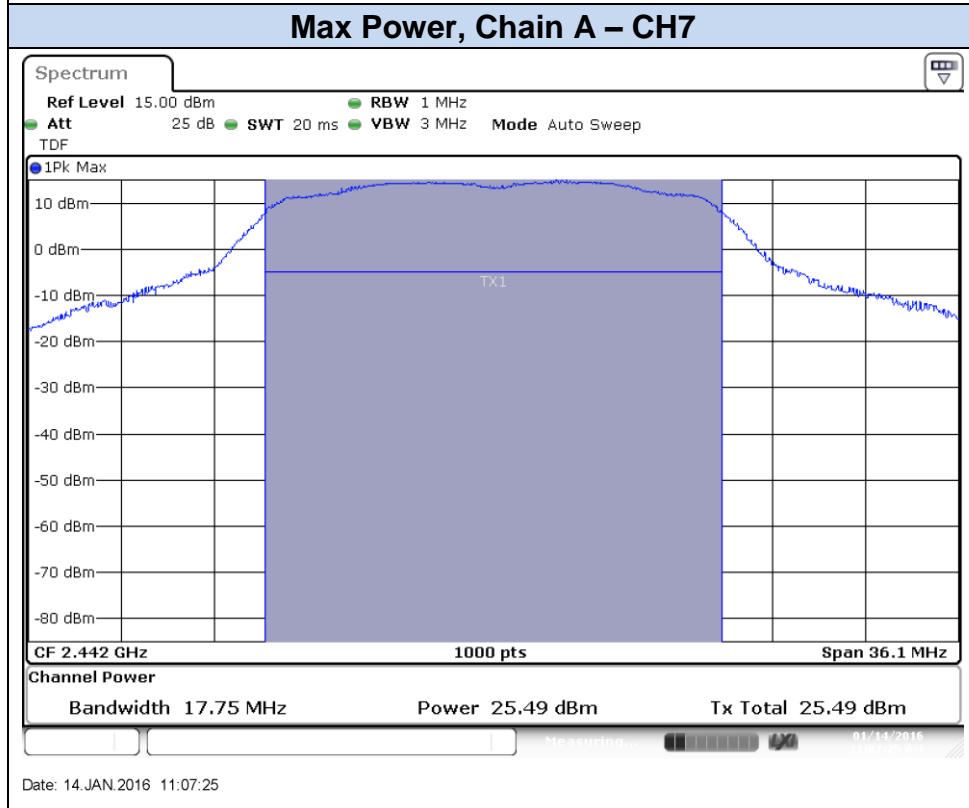




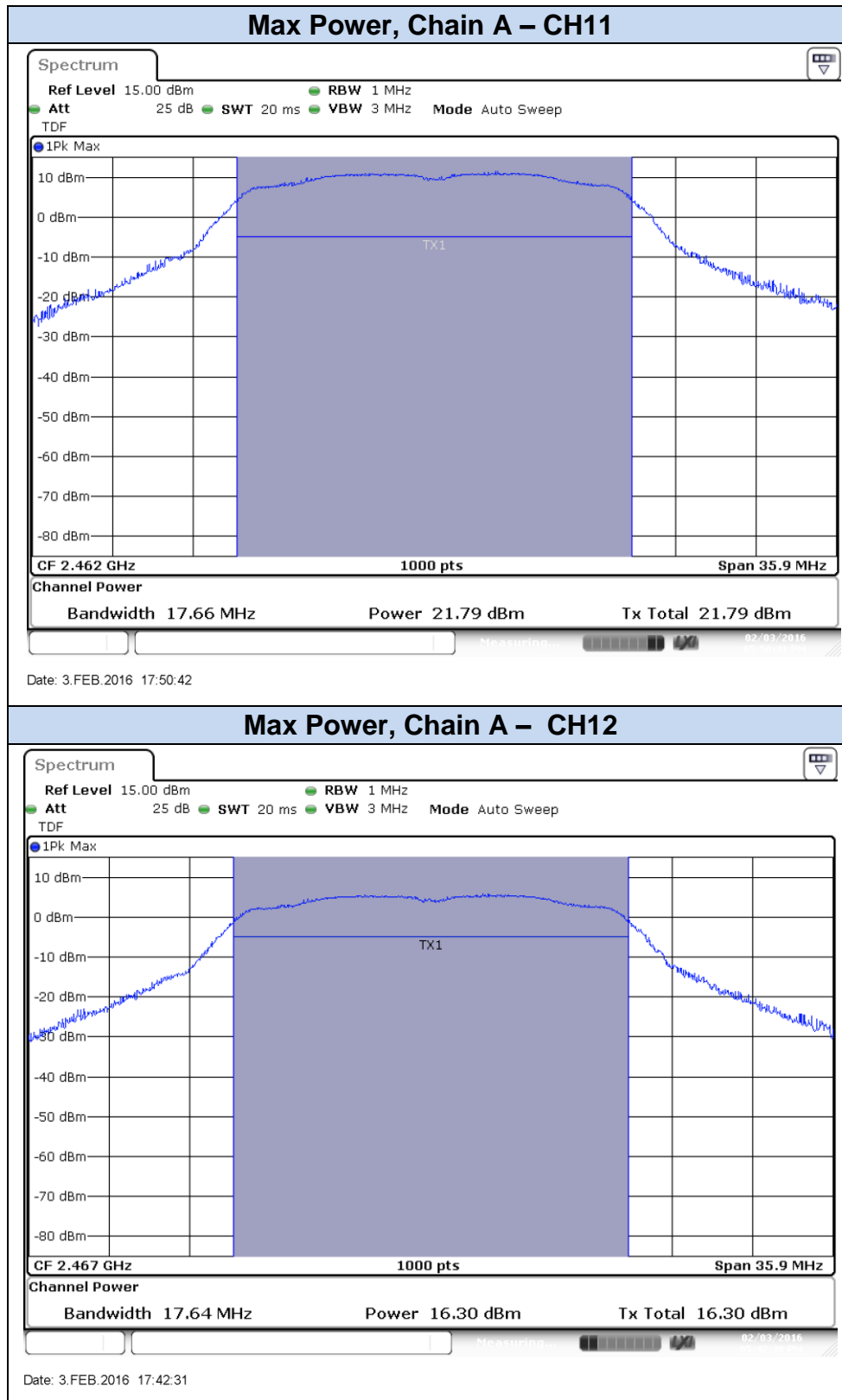


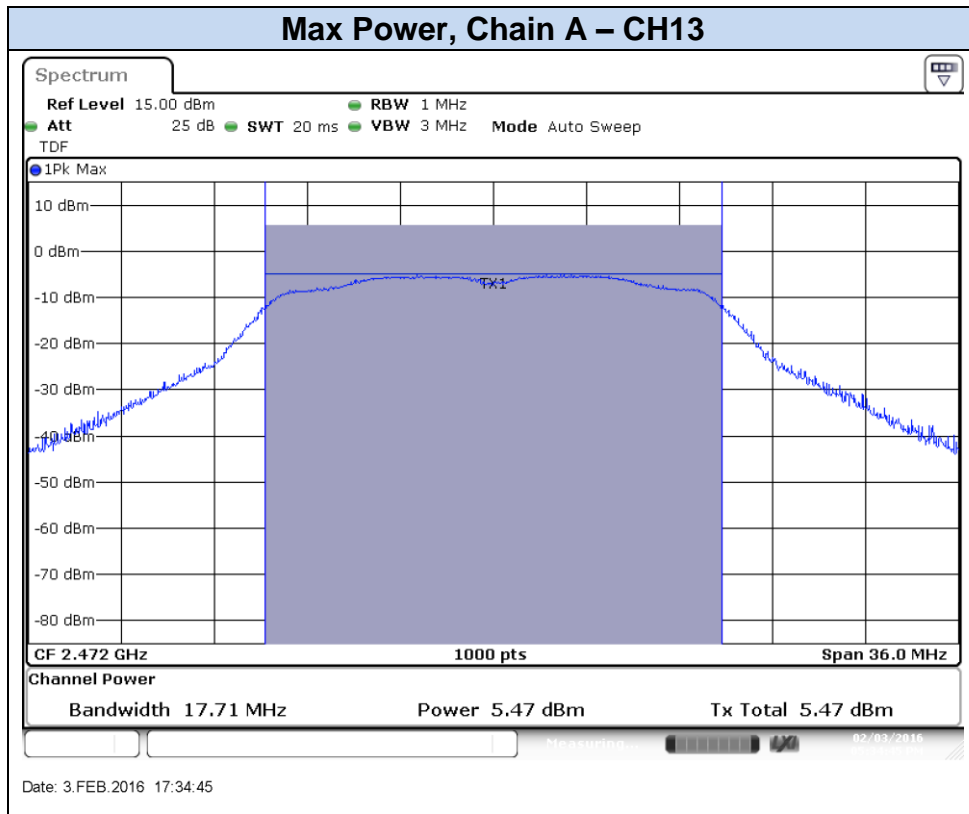
**802.11n20, HT0**

Date: 13.JAN.2016 10:35:28



Date: 14.JAN.2016 11:07:25





**802.11n40, HT0**