

**Combine with Antenna 0 and Antenna 1****Test Mode:** TX/ IEEE 802.11n HT40 MHz (CH Low)**Tested by:** Jack Chen**Ambient temperature:** 24°C    **Relative humidity:** 52% RH**Date:** July 1, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3880.0000	43.61	1.08	44.69	74.00	-29.31	V	Peak
4843.0000	48.11	4.47	52.58	74.00	-21.42	V	Peak
4843.0000	39.92	4.47	44.39	54.00	-9.61	V	AVG
5878.0000	41.53	6.03	47.56	74.00	-26.44	V	Peak
6922.0000	41.78	7.57	49.35	74.00	-24.65	V	Peak
7768.0000	41.30	9.20	50.50	74.00	-23.50	V	Peak
8335.0000	41.51	9.47	50.98	74.00	-23.02	V	Peak
4852.0000	45.55	4.50	50.05	74.00	-23.95	H	Peak
5194.0000	44.52	5.33	49.85	74.00	-24.15	H	Peak
5770.0000	41.57	5.98	47.55	74.00	-26.45	H	Peak
6715.0000	41.25	7.24	48.49	74.00	-25.51	H	Peak
7183.0000	41.47	8.06	49.53	74.00	-24.47	H	Peak
7759.0000	41.20	9.18	50.38	74.00	-23.62	H	Peak

**REMARKS:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11n HT40 MHz (CH Mid)**Tested by:** Jack Chen**Ambient temperature:** 24 °C    **Relative humidity:** 52% RH**Date:** July 1, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3646.0000	43.82	0.10	43.92	74.00	-30.08	V	Peak
4879.0000	47.55	4.59	52.14	74.00	-21.86	V	Peak
4879.0000	47.55	4.59	52.14	74.00	-21.86	V	Peak
4879.0000	39.79	4.59	44.38	54.00	-9.62	V	AVG
5743.0000	42.55	5.97	48.52	74.00	-25.48	V	Peak
6499.0000	41.42	6.89	48.31	74.00	-25.69	V	Peak
7795.0000	40.84	9.25	50.09	74.00	-23.91	V	Peak
<hr/>							
3880.0000	43.76	1.08	44.84	74.00	-29.16	H	Peak
4879.0000	44.41	4.59	49.00	74.00	-25.00	H	Peak
6121.0000	41.63	6.28	47.91	74.00	-26.09	H	Peak
6958.0000	42.50	7.63	50.13	74.00	-23.87	H	Peak
7795.0000	41.60	9.25	50.85	74.00	-23.15	H	Peak
9289.0000	41.22	9.93	51.15	74.00	-22.85	H	Peak

**REMARKS:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX/ IEEE 802.11n HT40 MHz (CH High)**Tested by:** Jack Chen**Ambient temperature:** 24°C    **Relative humidity:** 52% RH**Date:** July 1, 2016

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3682.0000	44.92	0.25	45.17	74.00	-28.83	V	Peak
4159.0000	43.61	2.15	45.76	74.00	-28.24	V	Peak
4897.0000	46.58	4.64	51.22	74.00	-22.78	V	Peak
6958.0000	41.19	7.63	48.82	74.00	-25.18	V	Peak
7723.0000	42.05	9.11	51.16	74.00	-22.84	V	Peak
8380.0000	41.62	9.44	51.06	74.00	-22.94	V	Peak
<hr/>							
1747.0000	55.62	-6.38	49.24	74.00	-24.76	H	Peak
4924.0000	43.92	4.73	48.65	74.00	-25.35	H	Peak
5869.0000	41.89	6.02	47.91	74.00	-26.09	H	Peak
7228.0000	41.38	8.14	49.52	74.00	-24.48	H	Peak
7777.0000	40.80	9.22	50.02	74.00	-23.98	H	Peak
8614.0000	42.08	9.31	51.39	74.00	-22.61	H	Peak

**REMARKS:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



## 7.3. 6dB BANDWIDTH MEASUREMENT

### 7.3.1. LIMITS

According to §15.247(a)(2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz. The minimum 6 dB bandwidth shall be at least 500 kHz.

### 7.3.2. TEST INSTRUMENTS

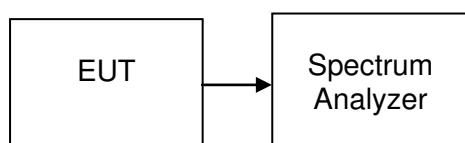
Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2016	02/20/2017

### 7.3.3. TEST PROCEDURES (please refer to measurement standard)

#### 8.1 Option 1:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 7.3.4. TEST SETUP





### 7.3.5. TEST RESULTS

No non-compliance noted

#### Test Data

##### Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Bandwidth (kHz)		Limit (kHz)	Test Result
		Antenna 0	Antenna 1		
Low	2412	9325	9557	>500	PASS
Mid	2437	9575	9101		PASS
High	2462	9436	9562		PASS

##### Test mode: IEEE 802.11g

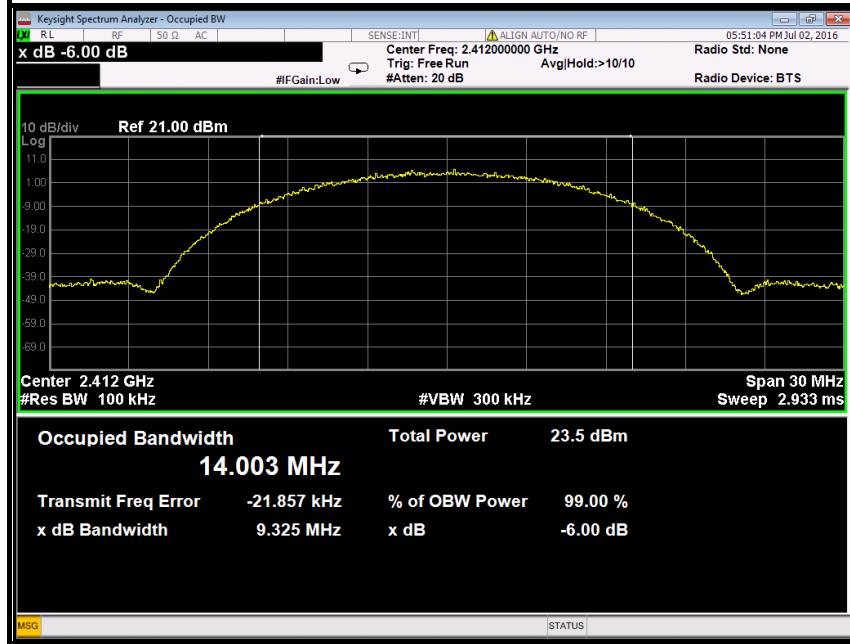
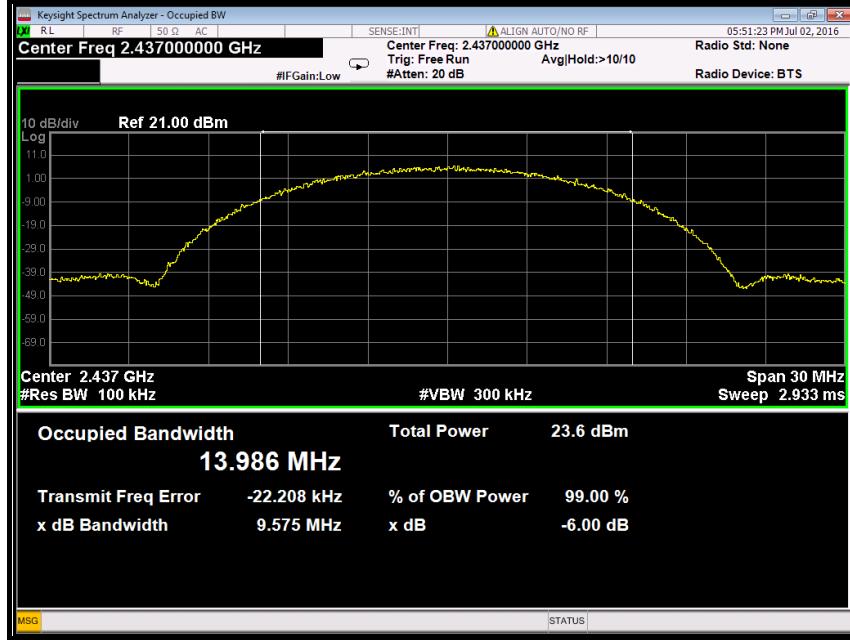
Channel	Frequency (MHz)	Bandwidth (kHz)		Limit (kHz)	Test Result
		Antenna 0	Antenna 1		
Low	2412	16320	16330	>500	PASS
Mid	2437	16080	16350		PASS
High	2462	16090	16330		PASS

##### Test mode: IEEE 802.11n HT20 MHz

Channel	Frequency (MHz)	Bandwidth (kHz)		Limit (kHz)	Test Result
		Antenna 0	Antenna 1		
Low	2412	17350	17550	>500	PASS
Mid	2437	17310	17580		PASS
High	2462	17560	17170		PASS

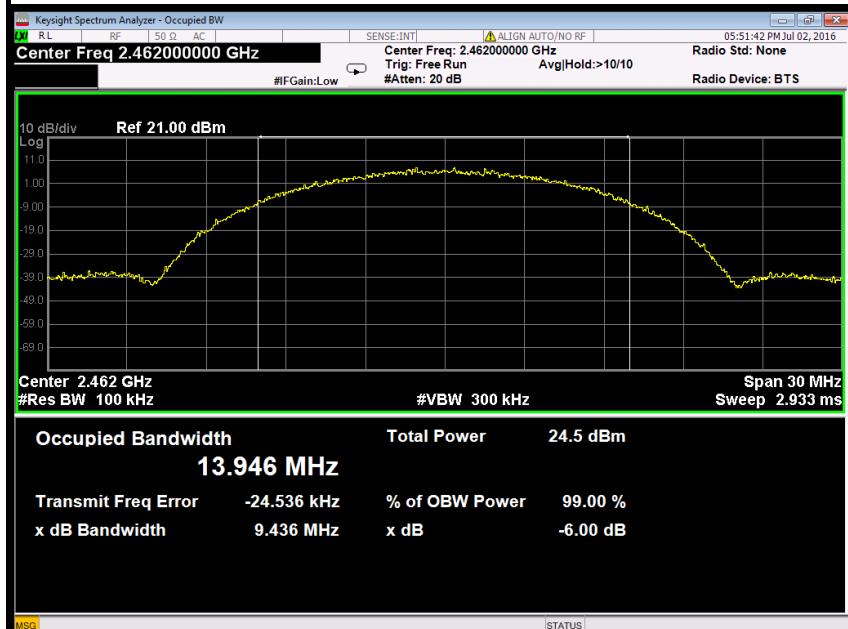
##### Test mode: IEEE 802.11n HT40 MHz

Channel	Frequency (MHz)	Bandwidth (kHz)		Limit (kHz)	Test Result
		Antenna 0	Antenna 1		
Low	2422	35420	35020	>500	PASS
Mid	2437	36030	35320		PASS
High	2452	35420	35140		PASS

**Test Plot****IEEE 802.11b mode (Antenna 0)****6dB Bandwidth (CH Low)****6dB Bandwidth (CH Mid)**

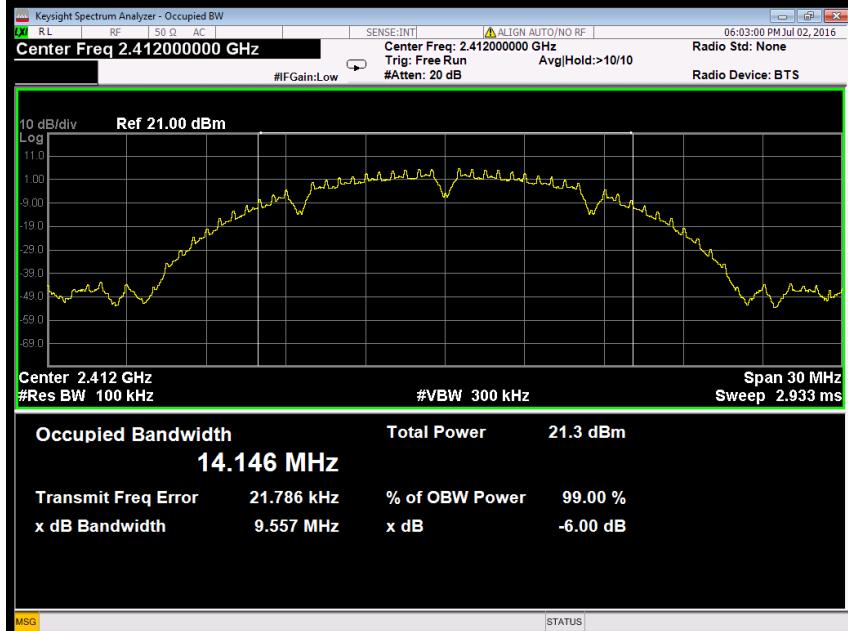


### 6dB Bandwidth (CH High)



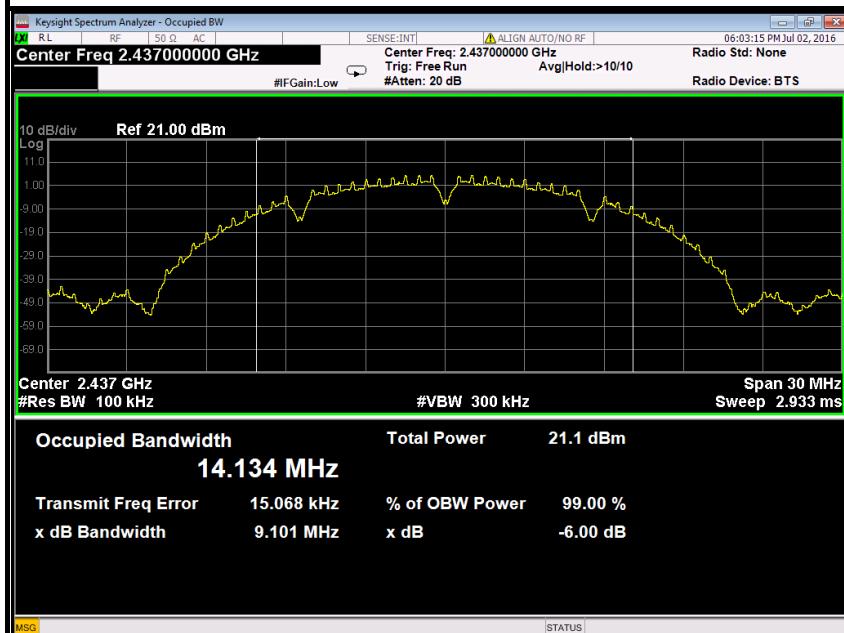
### IEEE 802.11b mode (Antenna 1)

#### 6dB Bandwidth (CH Low)

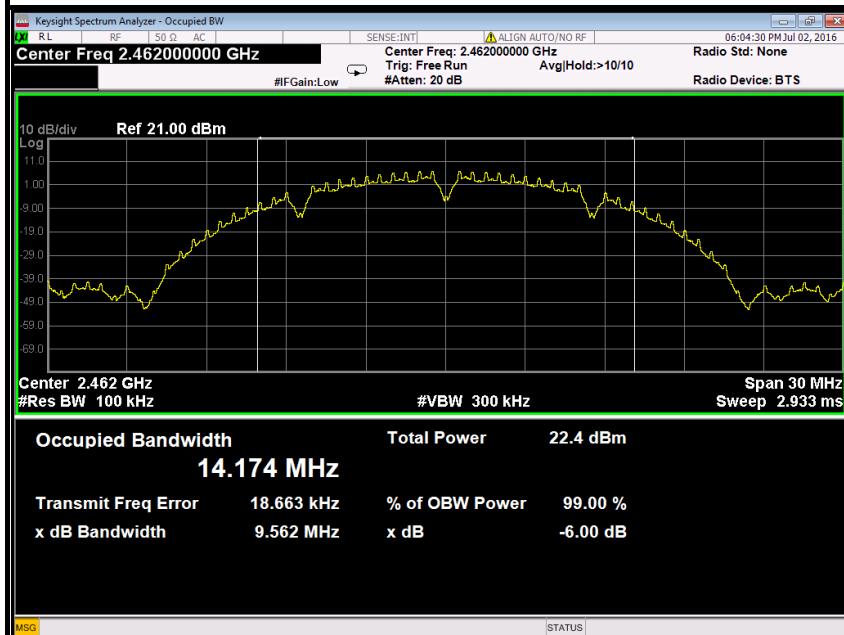


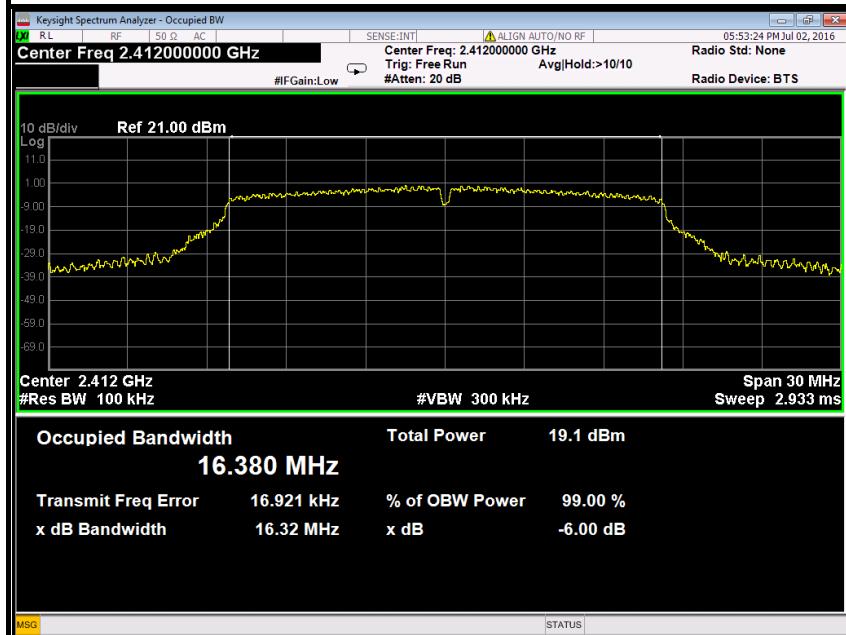
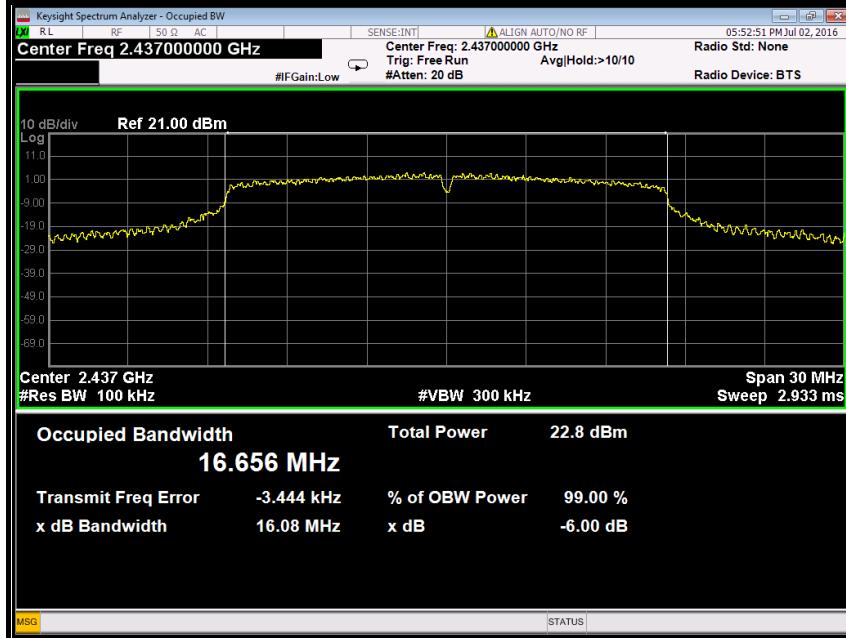


### 6dB Bandwidth (CH Mid)



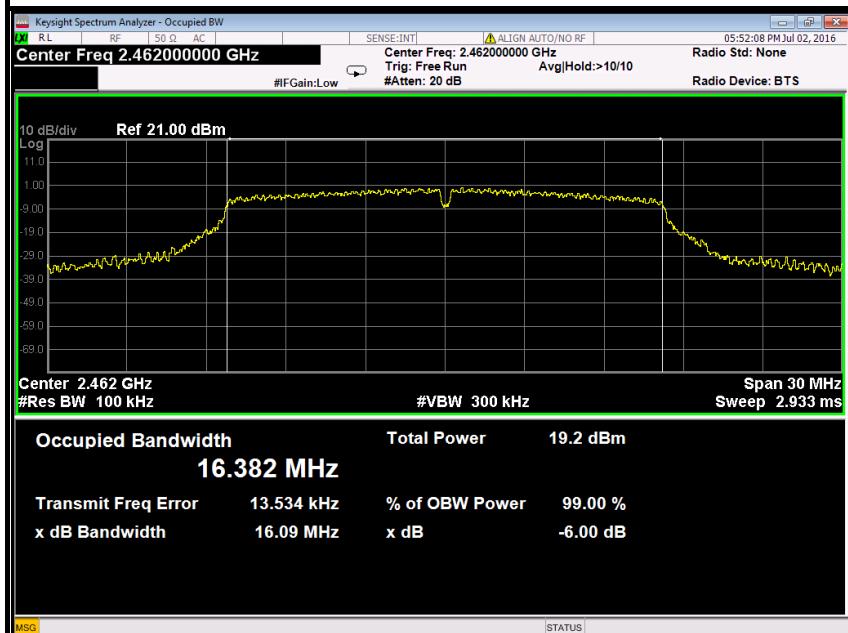
### 6dB Bandwidth (CH High)



**IEEE 802.11g mode (Antenna 0)****6dB Bandwidth (CH Low)****6dB Bandwidth (CH Mid)**

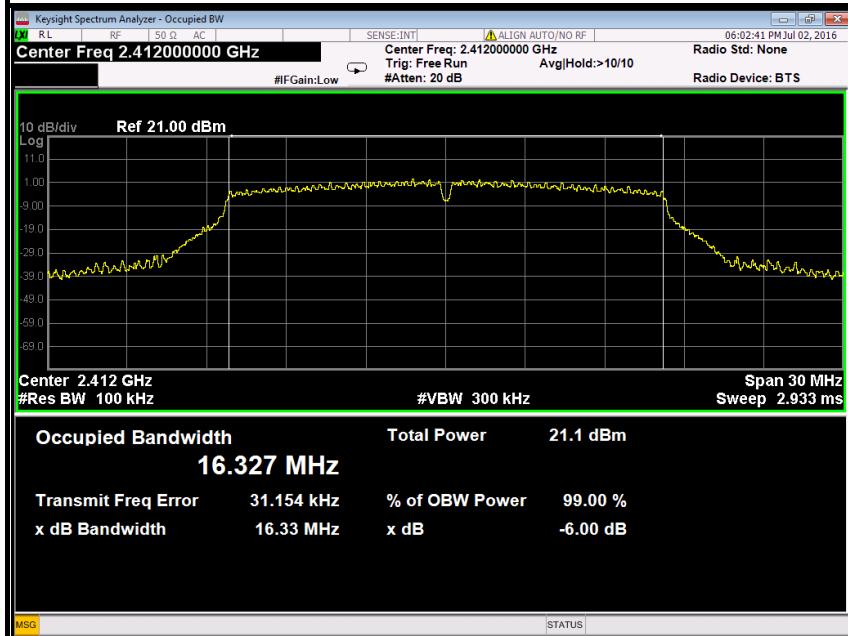


### 6dB Bandwidth (CH High)



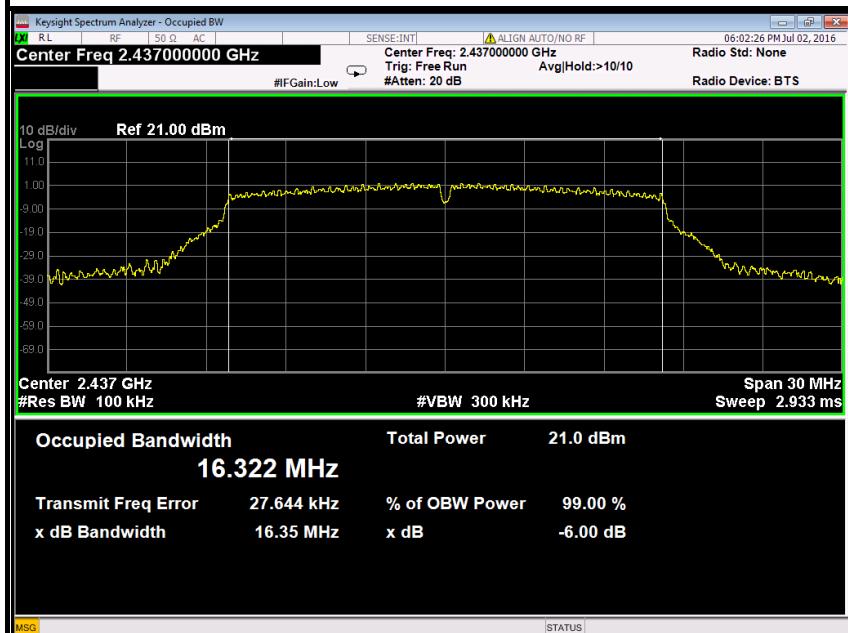
### IEEE 802.11g mode (Antenna 1)

### 6dB Bandwidth (CH Low)

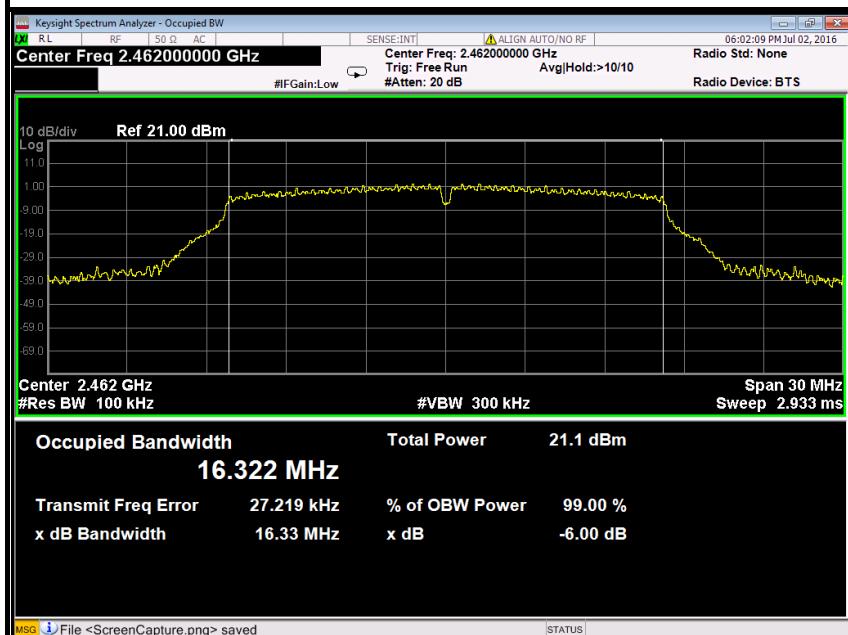


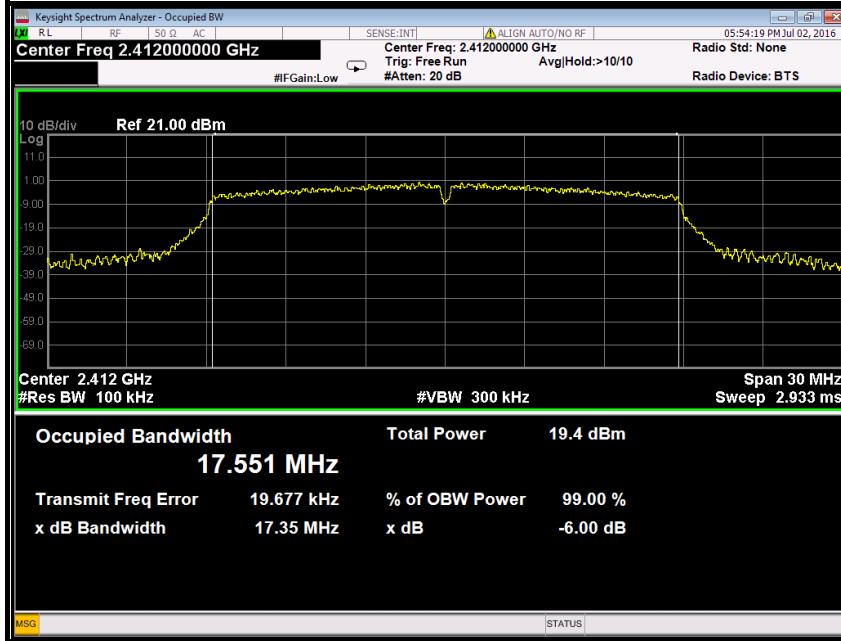
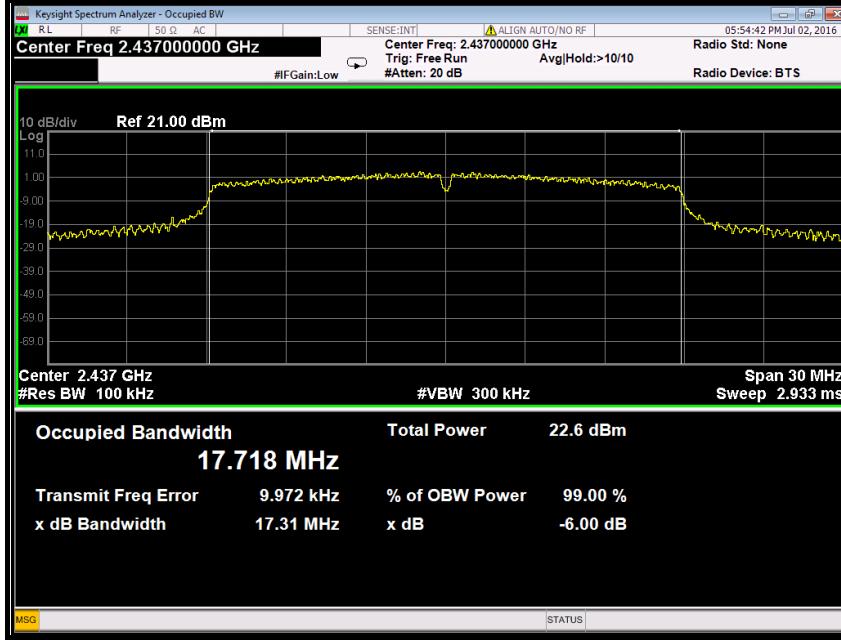


### 6dB Bandwidth (CH Mid)



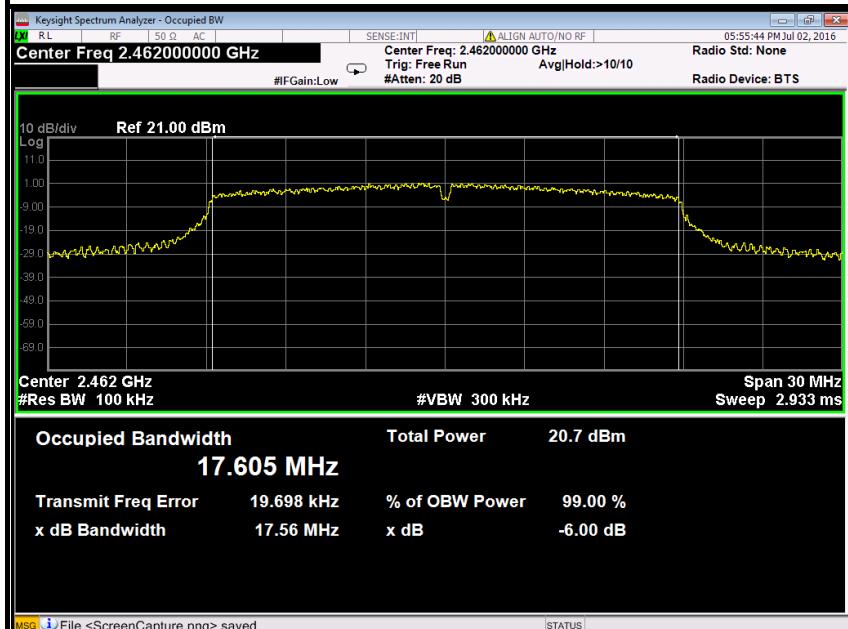
### 6dB Bandwidth (CH High)



**IEEE 802.11n HT20 MHz mode (Antenna 0)****6dB Bandwidth (CH Low)****6dB Bandwidth (CH Mid)**

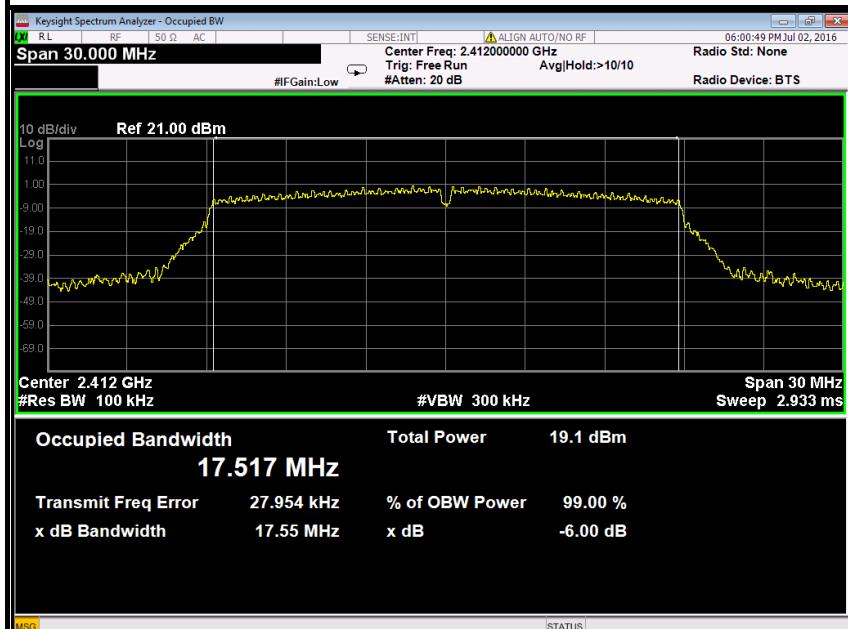


### **6dB Bandwidth (CH High)**



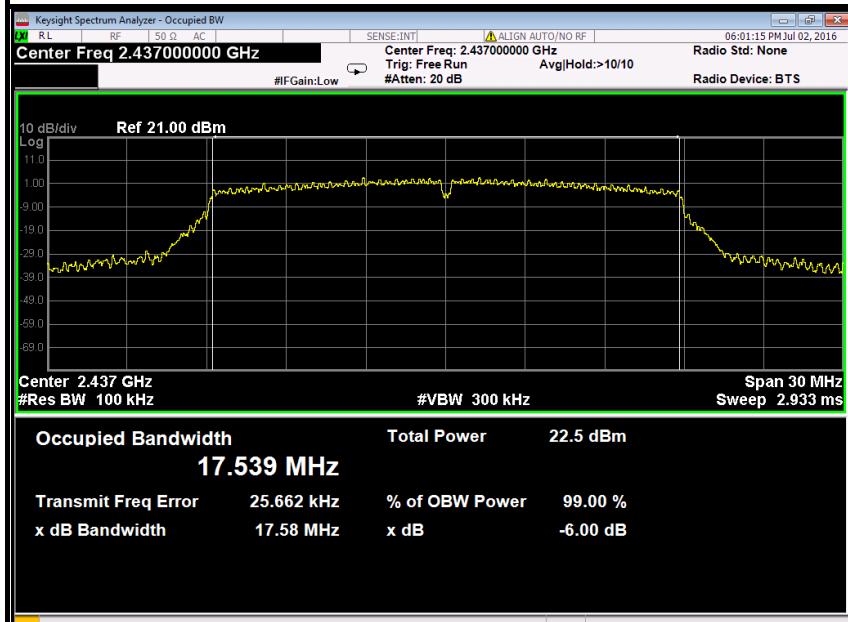
IEEE 802.11n HT20 MHz mode (Antenna 1)

### **6dB Bandwidth (CH Low)**

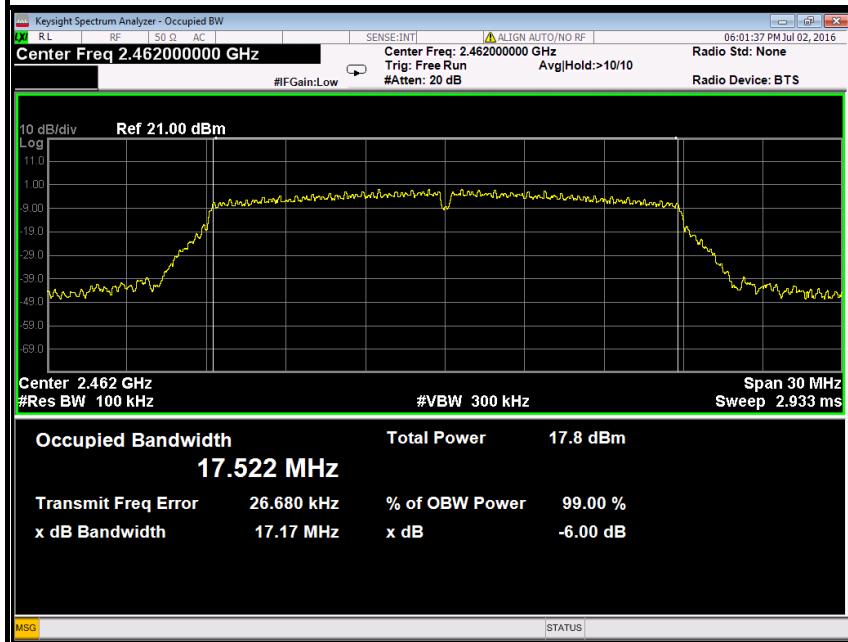


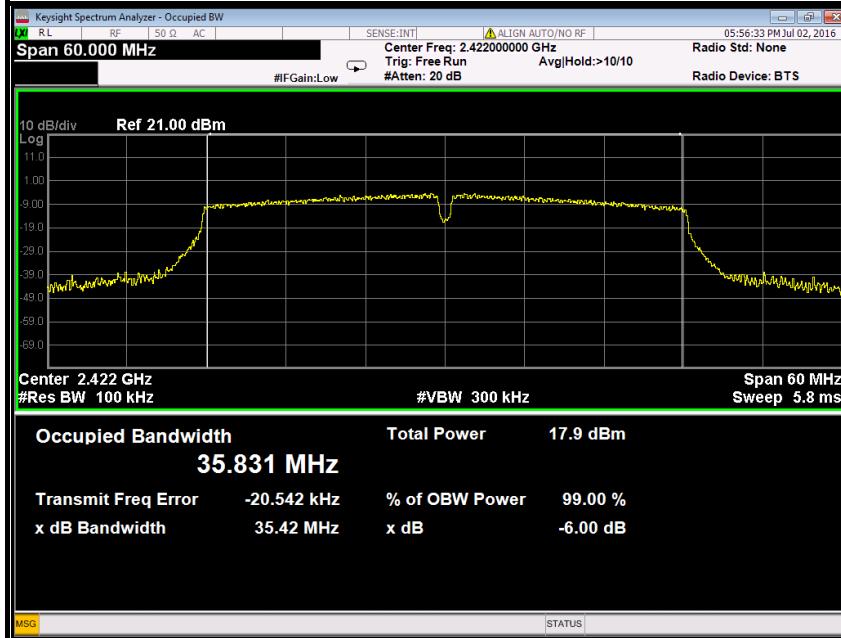
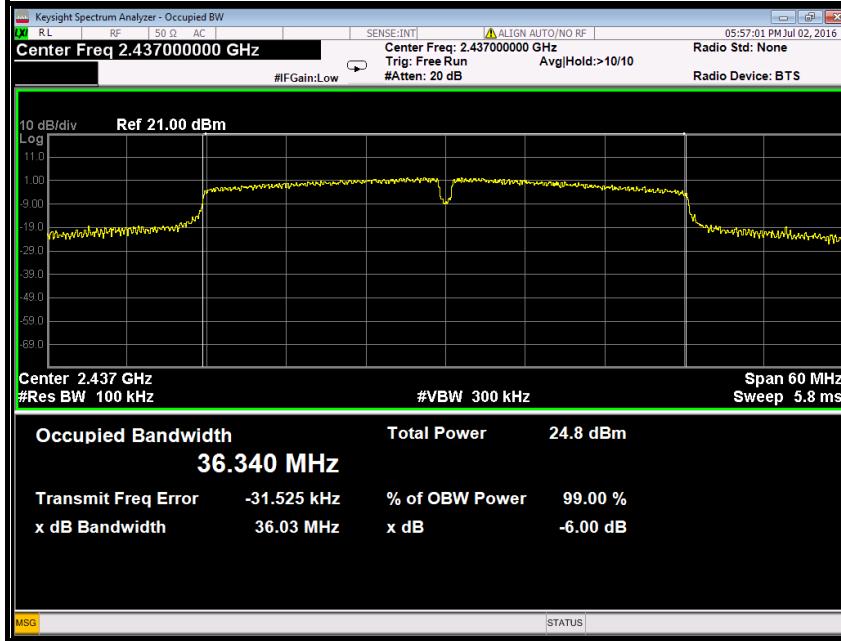


### 6dB Bandwidth (CH Mid)



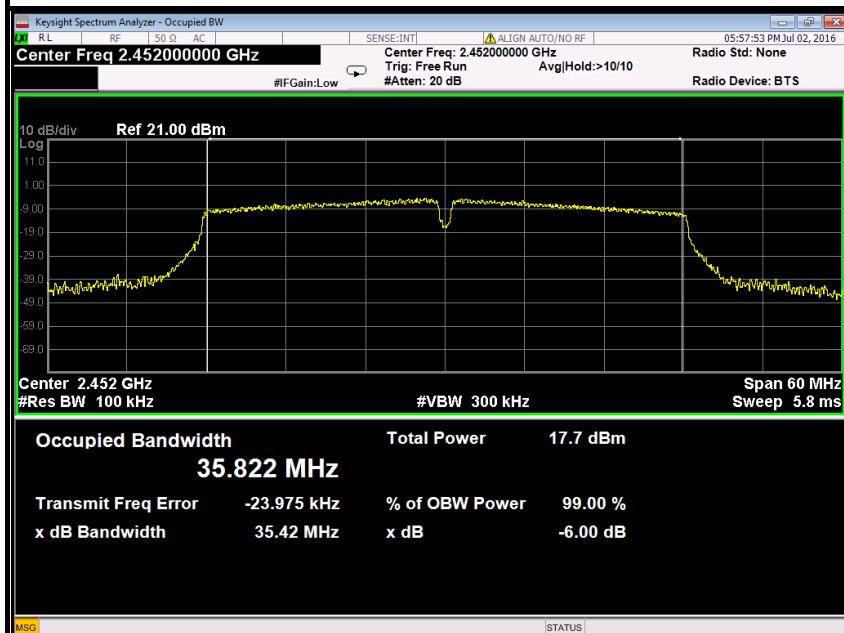
### 6dB Bandwidth (CH High)



**IEEE 802.11n HT40 MHz mode (Antenna 0)****6dB Bandwidth (CH Low)****6dB Bandwidth (CH Mid)**

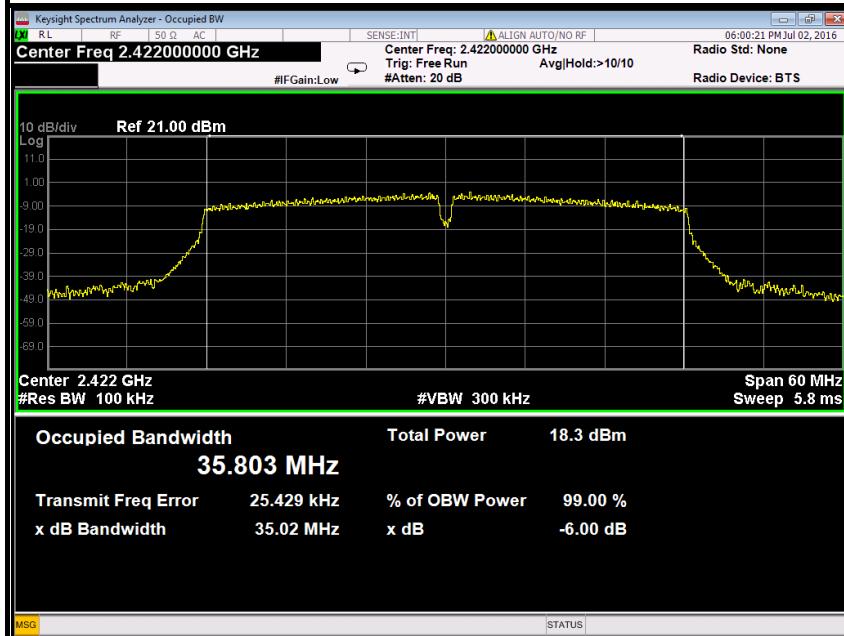


### 6dB Bandwidth (CH High)



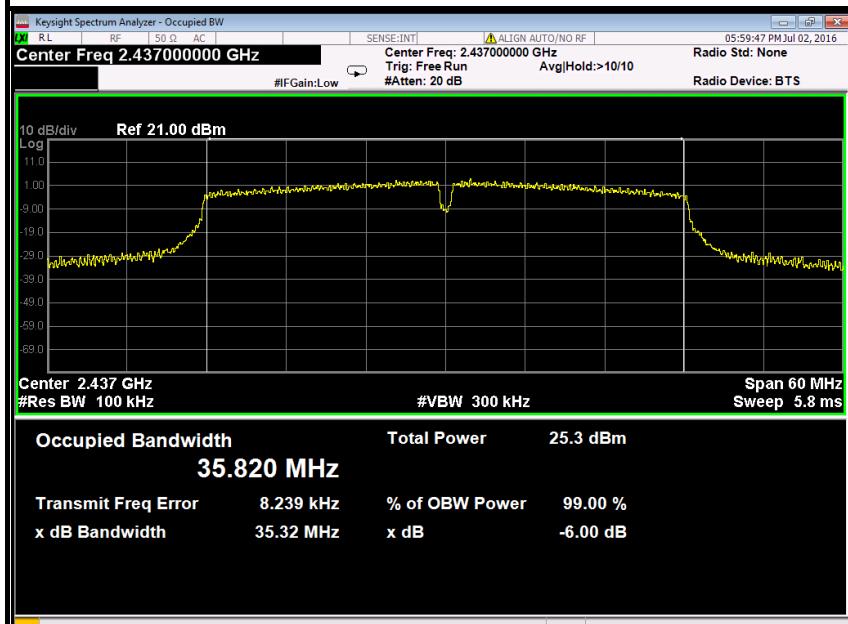
### IEEE 802.11n HT40 MHz mode (Antenna 1)

### 6dB Bandwidth (CH Low)

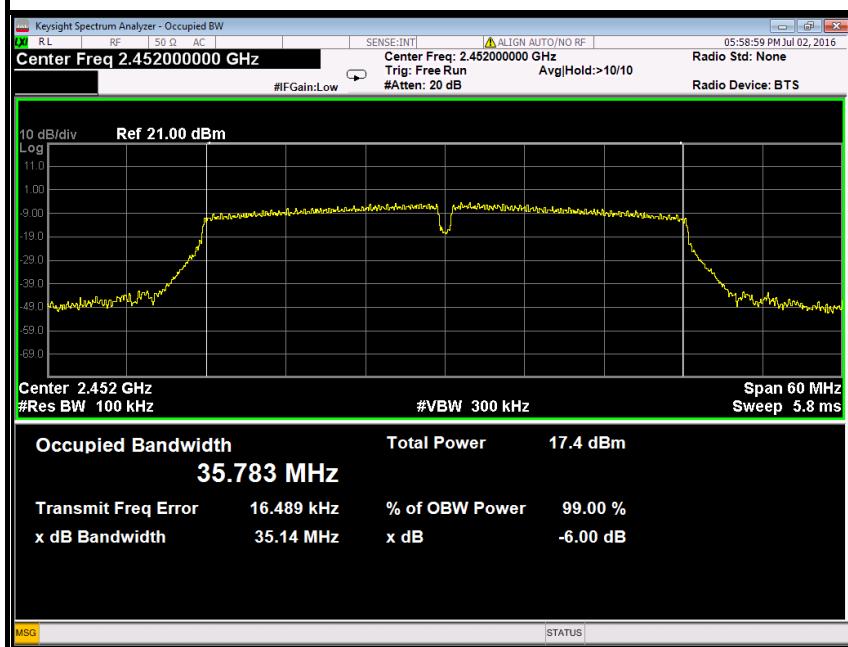




### 6dB Bandwidth (CH Mid)



### 6dB Bandwidth (CH High)





## 7.4. ANTENNA GAIN

### MEASUREMENT

The antenna gain of the complete system is calculated by the difference of radiated power in EIRP and the conducted power of the module. For normal WLAN devices, the DSSS mode is used.

### MEASUREMENT PARAMETERS

Measurement parameter	
Detector	Peak
Sweep time	Auto
Resolution bandwidth	3 MHz
Video bandwidth	3 MHz
Trace-Mode	Max hold

### LIMITS

FCC	IC
Antenna Gain	
6 dBi	

### TEST RESULTS

Please refer to the antenna report.



## 7.5. PEAK OUTPUT POWER

### 7.5.1. LIMITS

The maximum peak output power of the intentional radiator shall not exceed the following:

1. According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.
2. According to §15.247(b)(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. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 7.5.2. TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Power Meter	Anritsu	ML2495A	1204003	02/21/2016	02/20/2017
Power Sensor	Anritsu	MA2411B	1126150	02/21/2016	02/20/2017

### 7.5.3. TEST PROCEDURES (please refer to measurement standard)

#### 9.1.1 RBW $\geq$ DTS bandwidth

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the *DTS bandwidth*.

- a) Set the RBW  $\geq$  DTS bandwidth.
- b) Set VBW  $\geq$  3 RBW.
- c) Set span  $\geq$  3 x RBW
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.



### 9.1.2 Integrated band power method

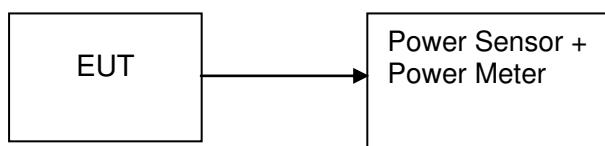
This procedure may be used when the maximum available RBW of the measurement instrument is less than the *DTS bandwidth*.

- a) Set the RBW = 1 MHz.
- b) Set the VBW  $\geq$  3 RBW
- c) Set the span  $\geq$  1.5 x DTS bandwidth.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select peak detector). If the instrument does not have a band power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS bandwidth.

### 9.1.3 PKPM1 Peak power meter method

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

#### 7.5.4. TEST SETUP





### 7.5.5. TEST RESULTS

No non-compliance noted

#### Test Data

##### Test mode: IEEE 802.11b (Antenna 0)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Peak / AVG	Limit (W)	Result
Low	2412	16.86	0.04853	Peak	1	PASS
Mid	2437	16.89	0.04887			PASS
High	2462	17.90	0.06166			PASS
Low	2412	15.17	0.03289	AVG	1	PASS
Mid	2437	15.21	0.03319			PASS
High	2462	16.25	0.04217			PASS

##### Test mode: IEEE 802.11b (Antenna 1)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Peak / AVG	Limit (W)	Result
Low	2412	16.31	0.04276	Peak	1	PASS
Mid	2437	16.21	0.04178			PASS
High	2462	17.30	0.05370			PASS
Low	2412	14.71	0.02958	AVG	1	PASS
Mid	2437	14.60	0.02884			PASS
High	2462	15.72	0.03733			PASS

##### Test mode: IEEE 802.11g (Antenna 0)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Peak / AVG	Limit (W)	Result
Low	2412	21.16	0.13062	Peak	1	PASS
Mid	2437	23.69	0.23388			PASS
High	2462	20.79	0.11995			PASS
Low	2412	13.07	0.02028	AVG	1	PASS
Mid	2437	14.94	0.03119			PASS
High	2462	13.01	0.02000			PASS



## Test mode: IEEE 802.11g (Antenna 1)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Peak / AVG	Limit (W)	Result
Low	2412	24.40	0.27542	Peak	1	PASS
Mid	2437	24.61	0.28907			PASS
High	2462	24.81	0.30269			PASS
Low	2412	14.95	0.03126	AVG	1	PASS
Mid	2437	14.83	0.03041			PASS
High	2462	14.81	0.03027			PASS

## Test mode: IEEE 802.11n HT20 MHz(Combine with Antenna 0 and Antenna 1)

Channel	Frequency (MHz)	Output Power (dBm)			Output Power (W)	Peak / AVG	Limit (W)	Result
		Antenna 0	Antenna 1	Total				
Low	2412	21.86	24.40	26.32	0.42888	Peak	1	PASS
Mid	2437	24.01	25.10	27.60	0.57536			PASS
High	2462	20.88	20.33	23.62	0.23036			PASS
Low	2412	13.40	14.95	17.25	0.05314	AVG	1	PASS
Mid	2437	16.58	15.91	19.27	0.08449			PASS
High	2462	12.11	11.45	14.80	0.03022			PASS

## Test mode: IEEE 802.11n HT40 MHz(Combine with Antenna 0 and Antenna 1)

Channel	Frequency (MHz)	Output Power (dBm)			Output Power (W)	Peak / AVG	Limit (W)	Result
		Antenna 0	Antenna 1	Total				
Low	2422	20.38	20.88	23.65	0.23161	Peak	1	PASS
Mid	2437	22.31	22.82	25.58	0.36164			PASS
High	2452	19.17	19.25	22.22	0.16674			PASS
Low	2422	12.57	11.79	15.21	0.03317	AVG	1	PASS
Mid	2437	13.48	13.37	16.44	0.04401			PASS
High	2452	11.26	10.10	13.73	0.02360			PASS



## 7.6. BAND EDGES MEASUREMENT

### 7.6.1. LIMITS

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

### 7.6.2. TEST INSTRUMENTS

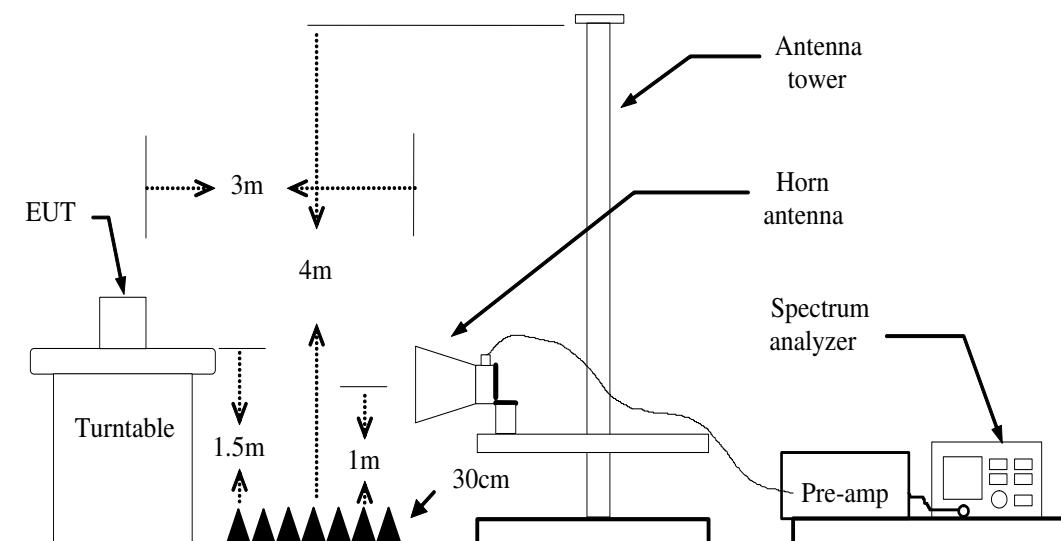
Radiated Emission Test Site 966 (2)					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	02/21/2016	02/20/2017
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2016	02/20/2017
Amplifier	EMEC	EM330	060661	03/18/2016	03/17/2017
High Noise Amplifier	Agilent	8449B	3008A01838	02/21/2016	02/20/2017
Loop Antenna	COM-POWER	AL-130	121044	09/25/2015	09/24/2016
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2016	02/20/2017
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/28/2016	02/27/2017
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/28/2016	02/27/2017
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	CT	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/21/2016	02/20/2017
Test S/W	FARAD		LZ-RF / CCS-SZ-3A2		

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
  2. The FCC Site Registration number is 101879.
  3. N.C.R = No Calibration Required.

### 7.6.3. TEST PROCEDURES (please refer to measurement standard)

1. The EUT is placed on a turntable, which is 1.5m above the ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
  - (a) PEAK: RBW=1MHz / VBW=1MHz / Sweep=AUTO
  - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO / Detector=PEAK
5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are

### 7.6.4. TEST SETUP





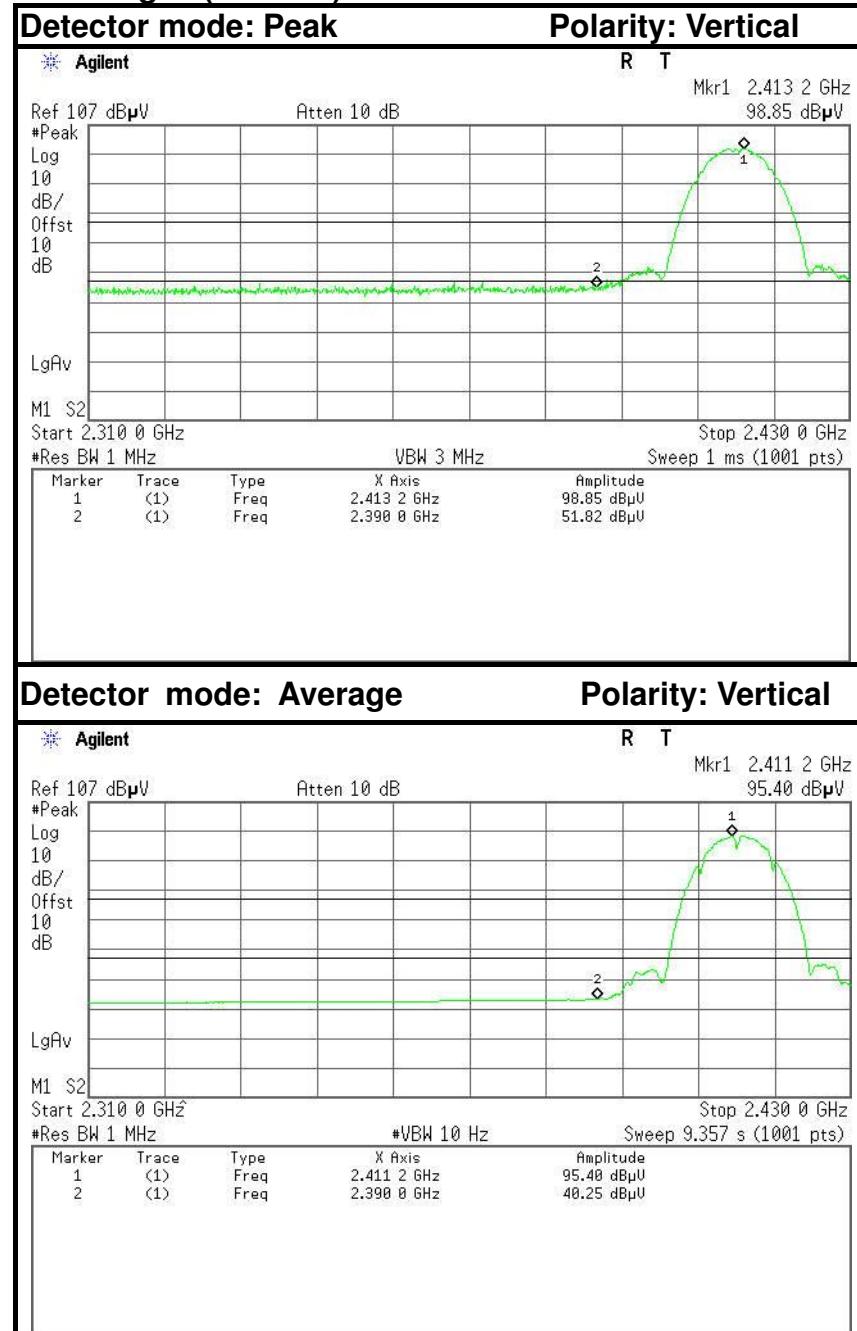
### 7.6.5. TEST RESULTS

#### Test Plot

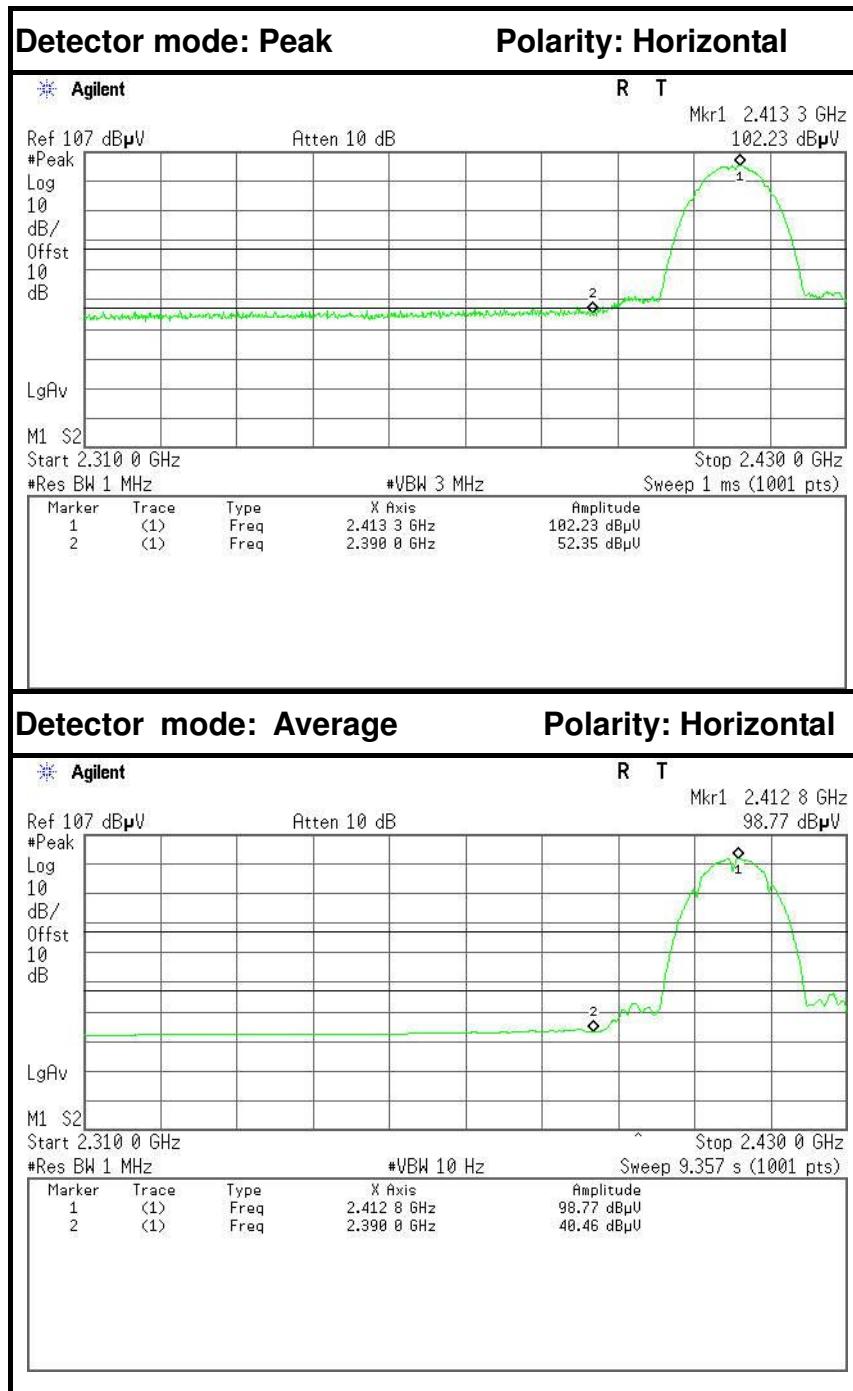
RE3001

**IEEE 802.11b mode (Antenna 0)**

**Band Edges (CH Low)**



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	45.22	-6.60	51.82	74.00	-22.18	Peak	Vertical
2	2390.0000	33.65	-6.60	40.25	54.00	-13.75	Average	Vertical



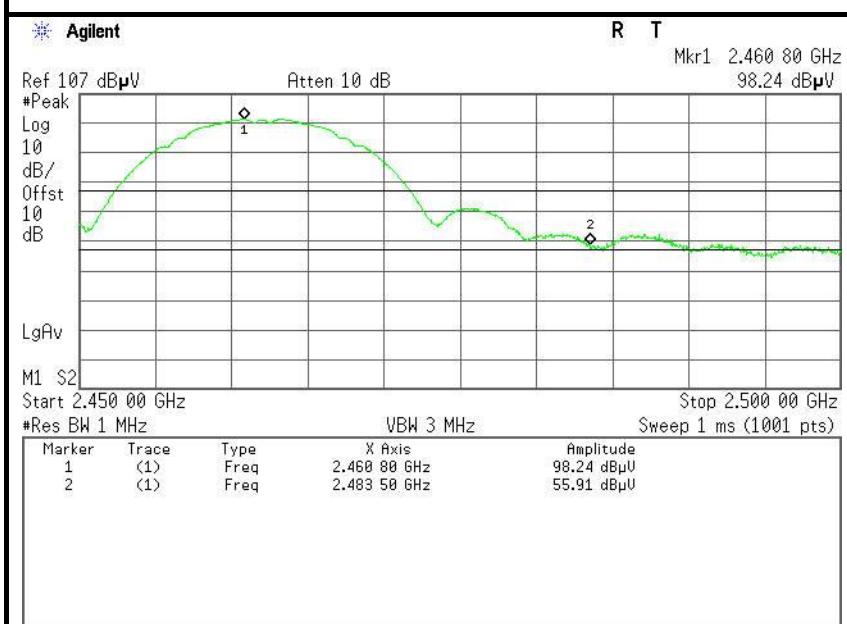
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	45.75	-6.60	52.35	74.00	-21.65	Peak	Horizontal
2	2390.0000	33.86	-6.60	40.46	54.00	-13.54	Average	Horizontal



## Band Edges (CH High)

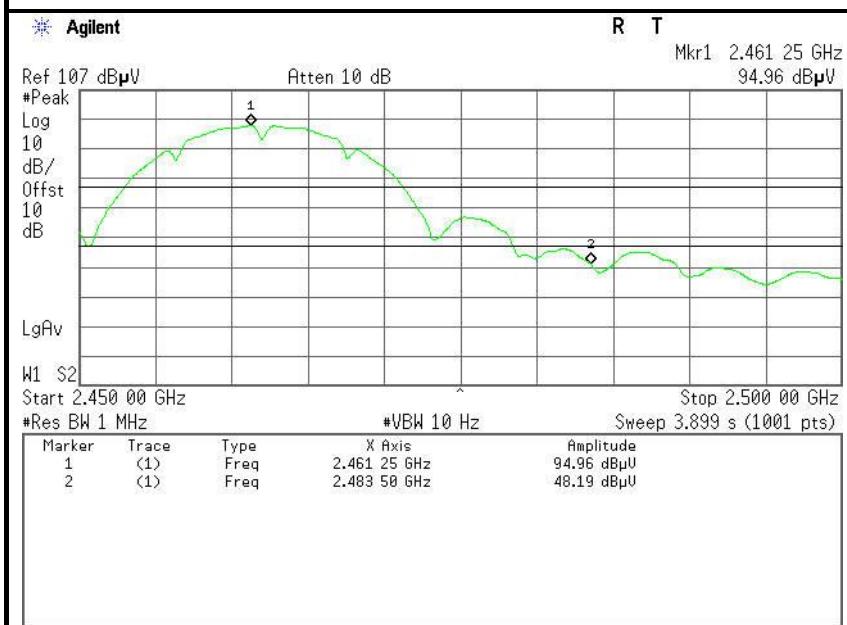
Detector mode: Peak

Polarity: Vertical



Detector mode: Average

Polarity: Vertical

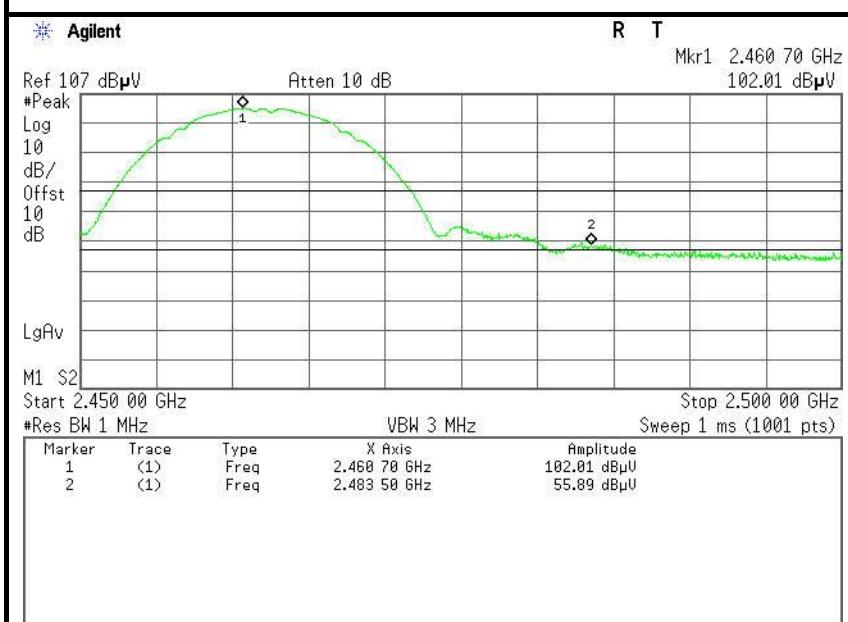


No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	49.67	-6.24	55.91	74.00	-18.09	Peak	Vertical
2	2483.5000	41.95	-6.24	48.19	54.00	-5.81	Average	Vertical



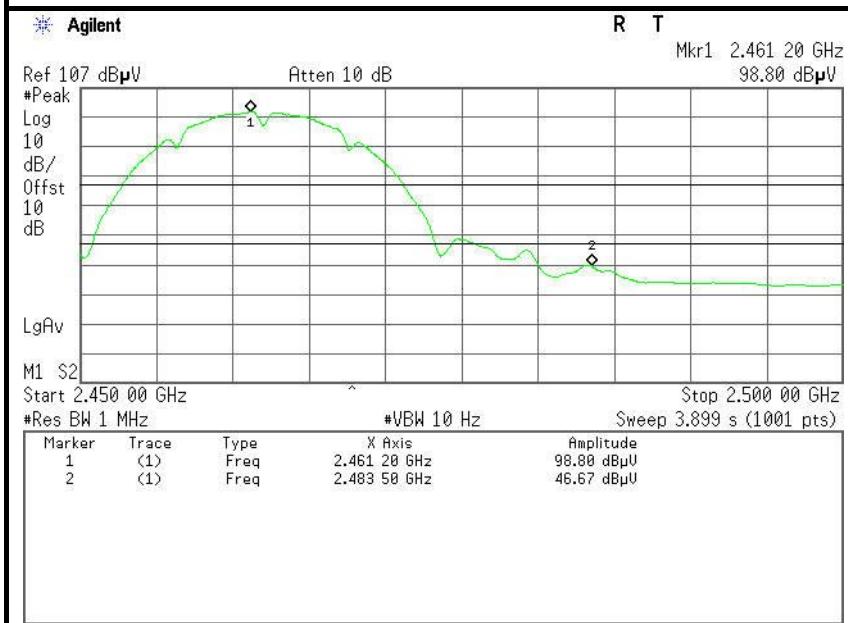
## Detector mode: Peak

## Polarity: Horizontal

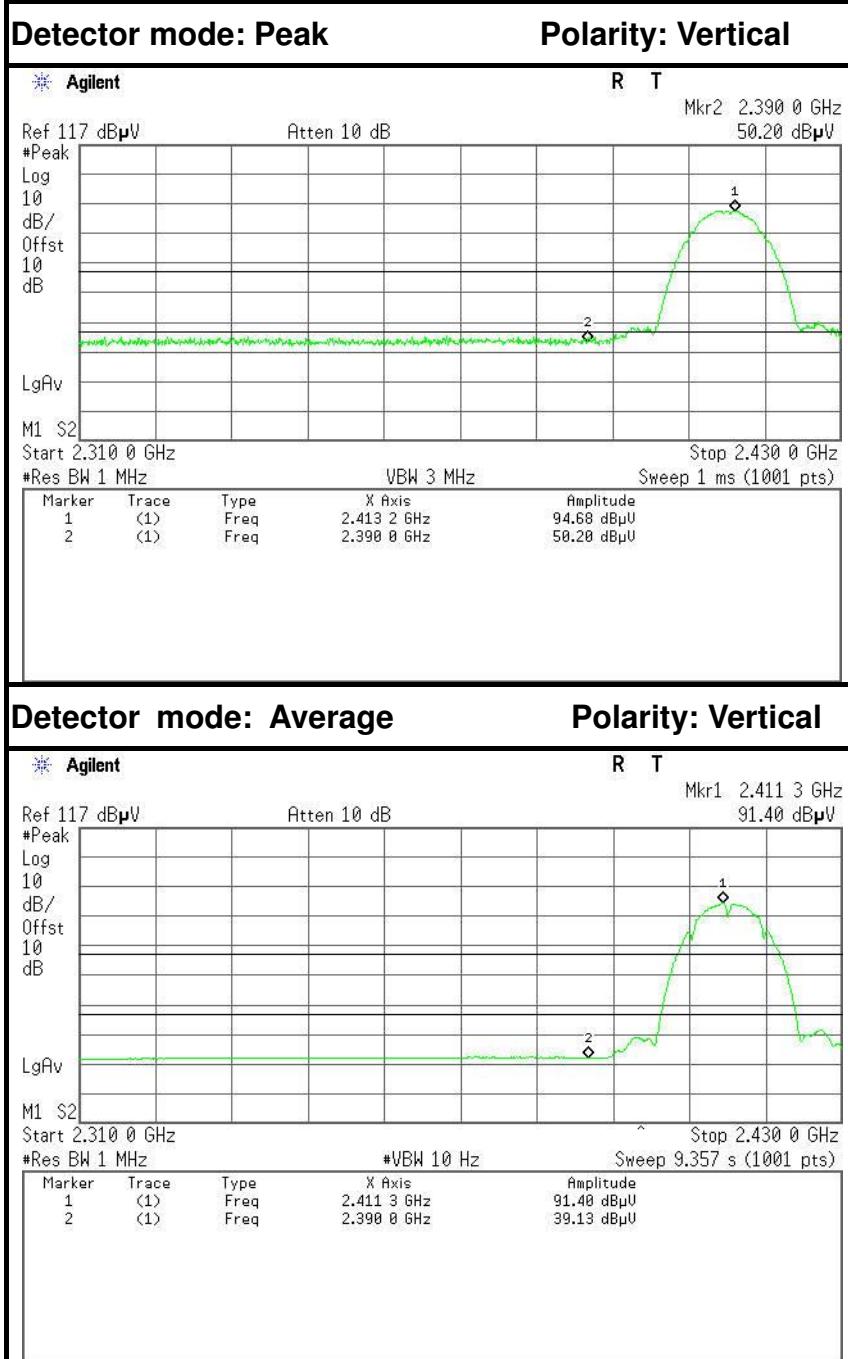


## Detector mode: Average

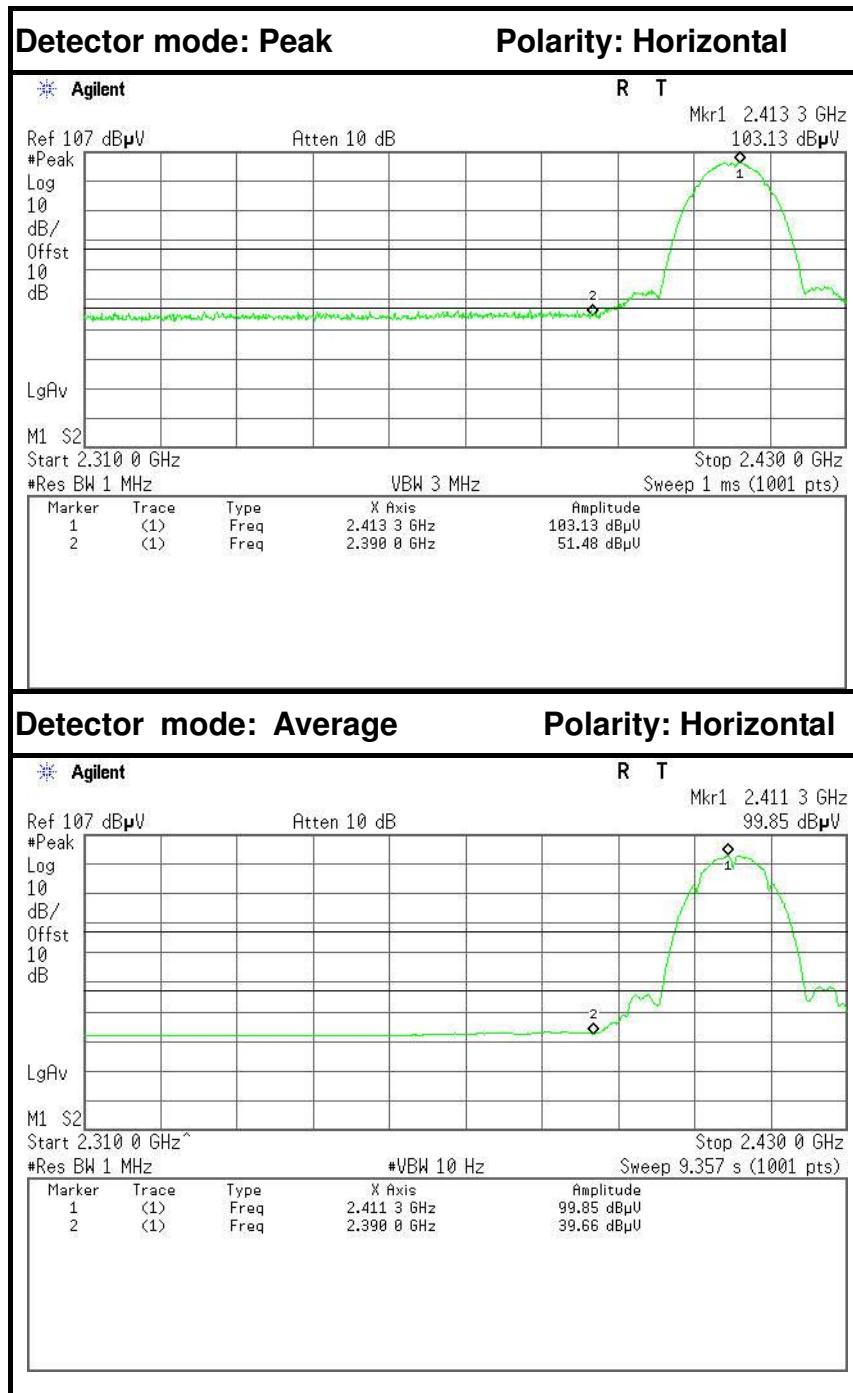
## Polarity: Horizontal



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	49.65	-6.24	55.89	74.00	-18.11	Peak	Horizontal
2	2483.5000	40.43	-6.24	46.67	54.00	-7.33	Average	Horizontal

**IEEE 802.11b mode (Antenna 1)****Band Edges (CH Low)**

No.	Frequency (MHz)	Reading (dB $\mu$ V)	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	43.60	-6.60	50.20	74.00	-23.80	Peak	Vertical
2	2390.0000	32.53	-6.60	39.13	54.00	-14.87	Average	Vertical



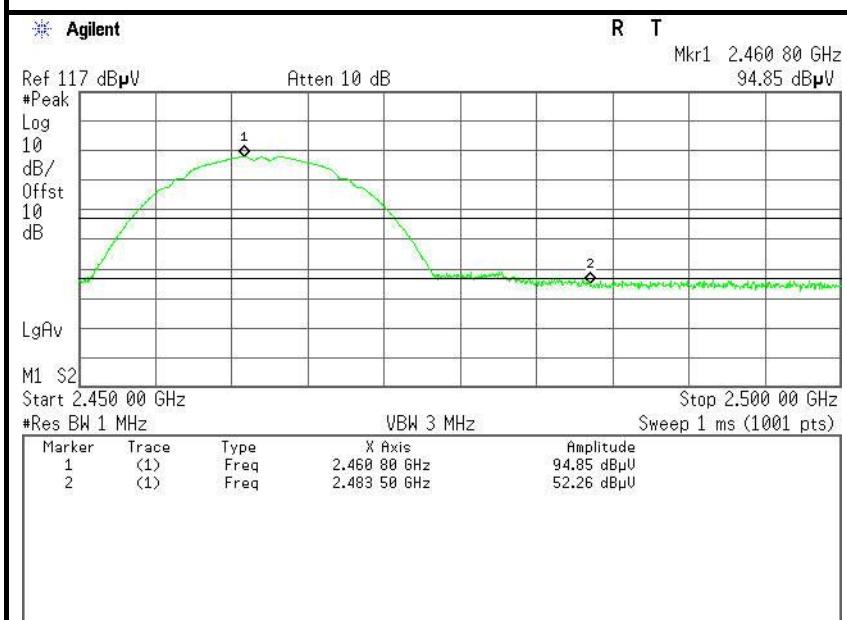
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	44.88	-6.60	51.48	74.00	-22.52	Peak	Horizontal
2	2390.0000	33.06	-6.60	39.66	54.00	-14.34	Average	Horizontal



## Band Edges (CH High)

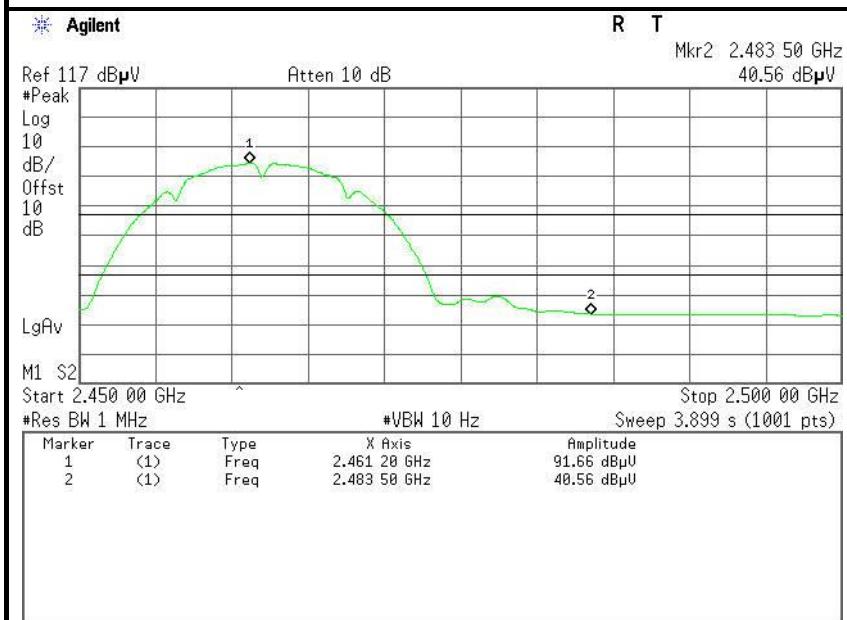
Detector mode: Peak

Polarity: Vertical



Detector mode: Average

Polarity: Vertical

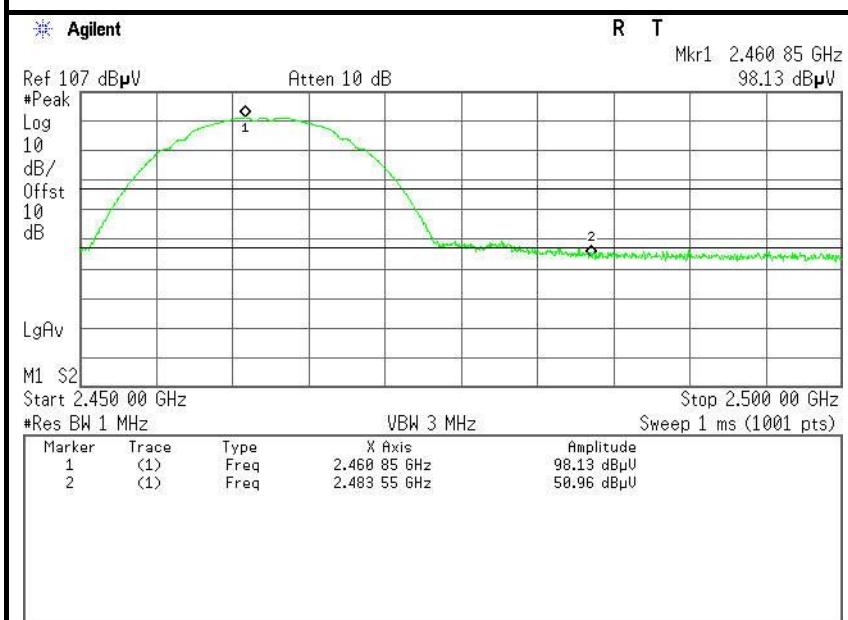


No.	Frequency (MHz)	Reading (dB $\mu$ V)	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	46.02	-6.24	52.26	74.00	-21.74	Peak	Vertical
2	2483.5000	34.32	-6.24	40.56	54.00	-13.44	Average	Vertical



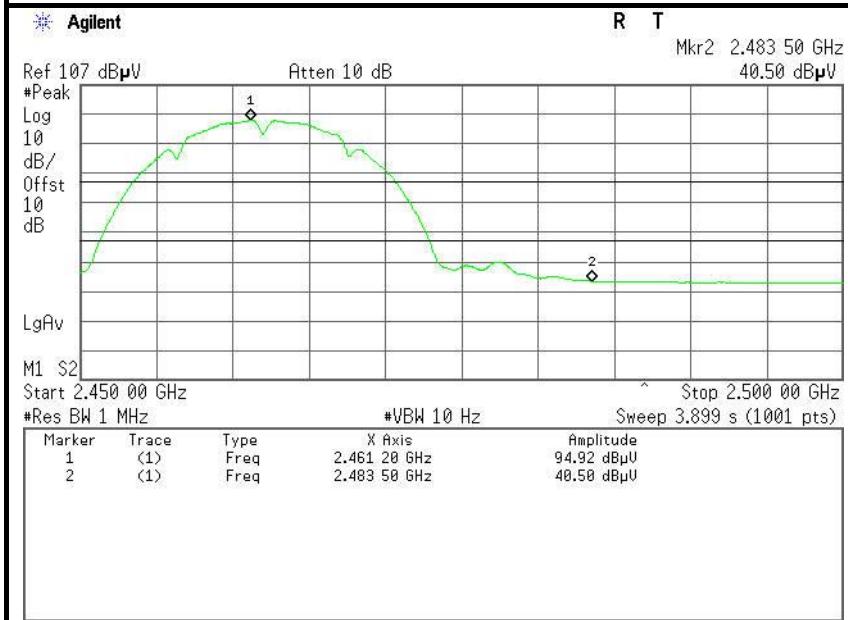
## Detector mode: Peak

## Polarity: Horizontal



## Detector mode: Average

## Polarity: Horizontal

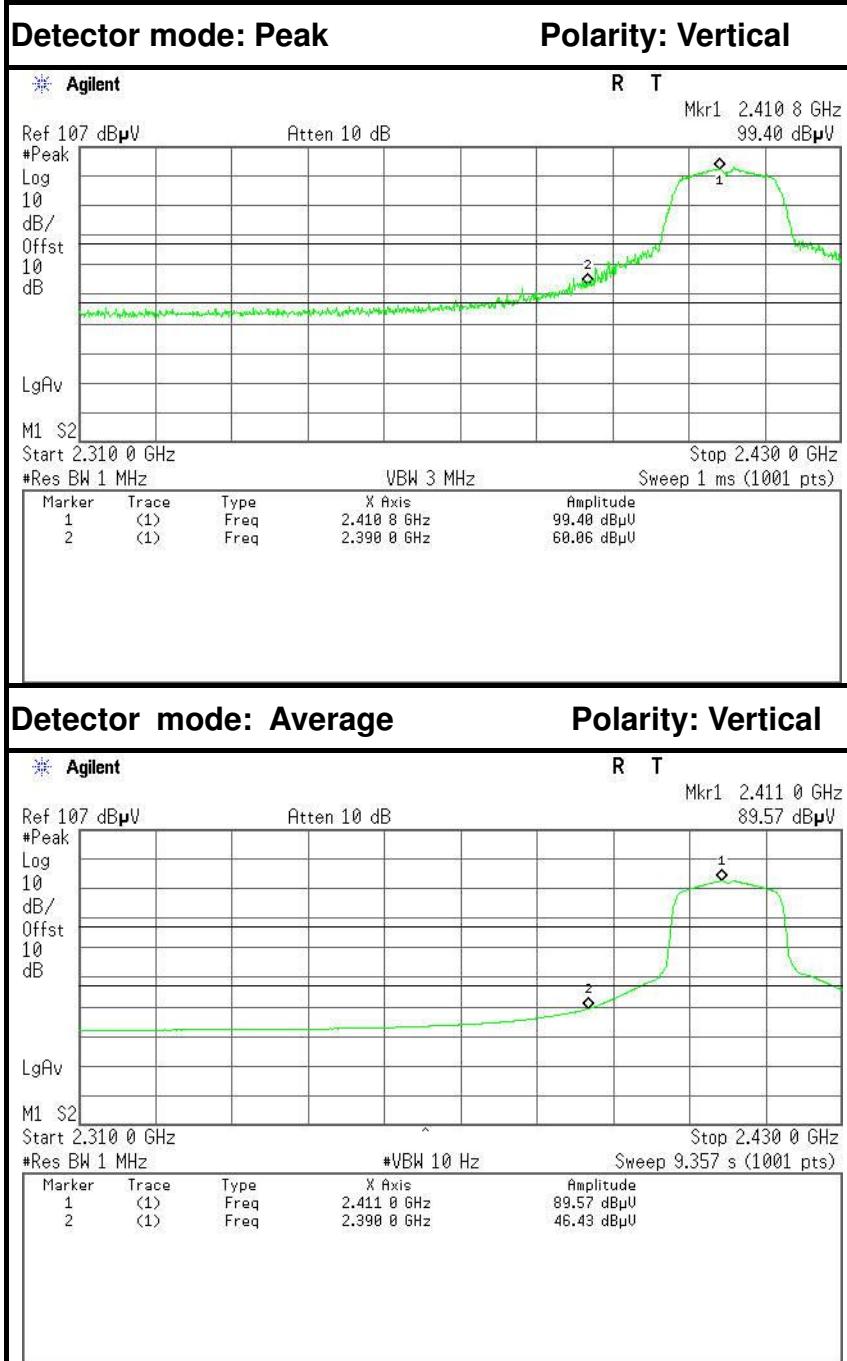


No.	Frequency (MHz)	Reading (dB $\mu$ V)	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	44.72	-6.24	50.96	74.00	-23.04	Peak	Horizontal
2	2483.5000	34.26	-6.24	40.50	54.00	-13.50	Average	Horizontal



## IEEE 802.11g mode (Antenna 0)

## Band Edges (CH Low)

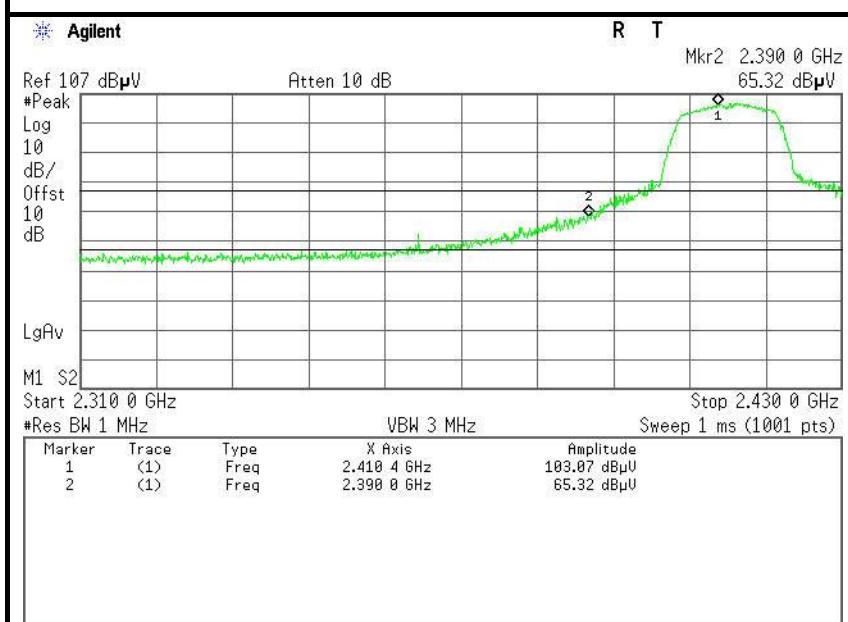


No.	Frequency (MHz)	Reading (dB $\mu$ V)	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	53.46	-6.60	60.06	74.00	-13.94	Peak	Vertical
2	2390.0000	39.83	-6.60	46.43	54.00	-7.57	Average	Vertical



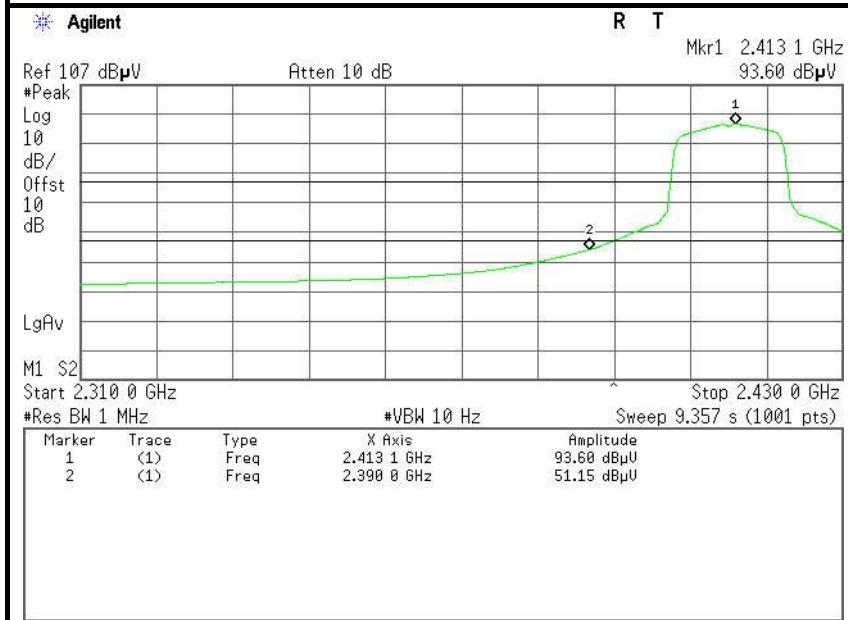
## Detector mode: Peak

## Polarity: Horizontal



## Detector mode: Average

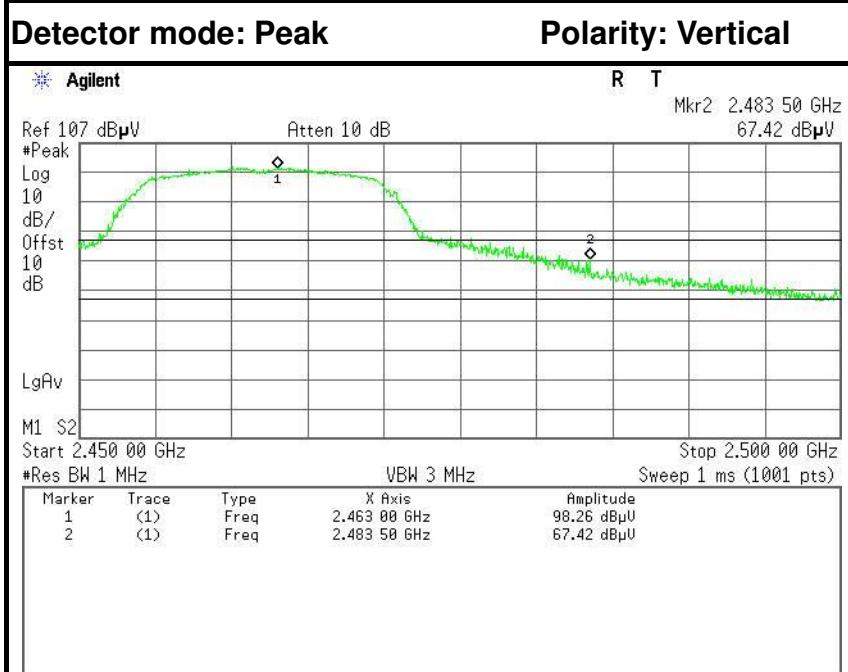
## Polarity: Horizontal



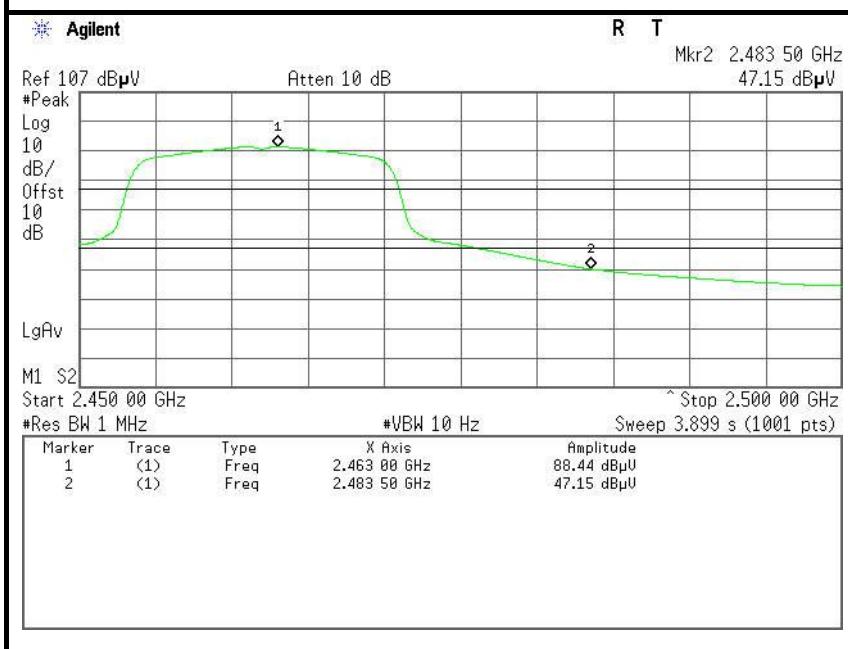
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	58.72	-6.60	65.32	74.00	-8.68	Peak	Horizontal
2	2390.0000	44.55	-6.60	51.15	54.00	-2.85	Average	Horizontal



## Band Edges (CH High)



## Detector mode: Average      Polarity: Vertical

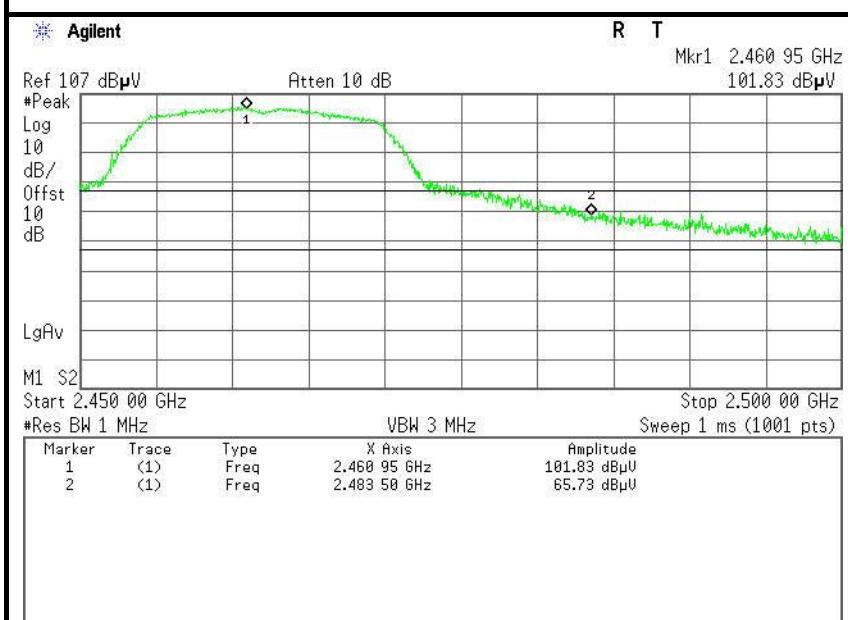


No.	Frequency (MHz)	Reading (dB $\mu$ V)	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	61.18	-6.24	67.42	74.00	-6.58	Peak	Vertical
2	2483.5000	40.91	-6.24	47.15	54.00	-6.85	Average	Vertical



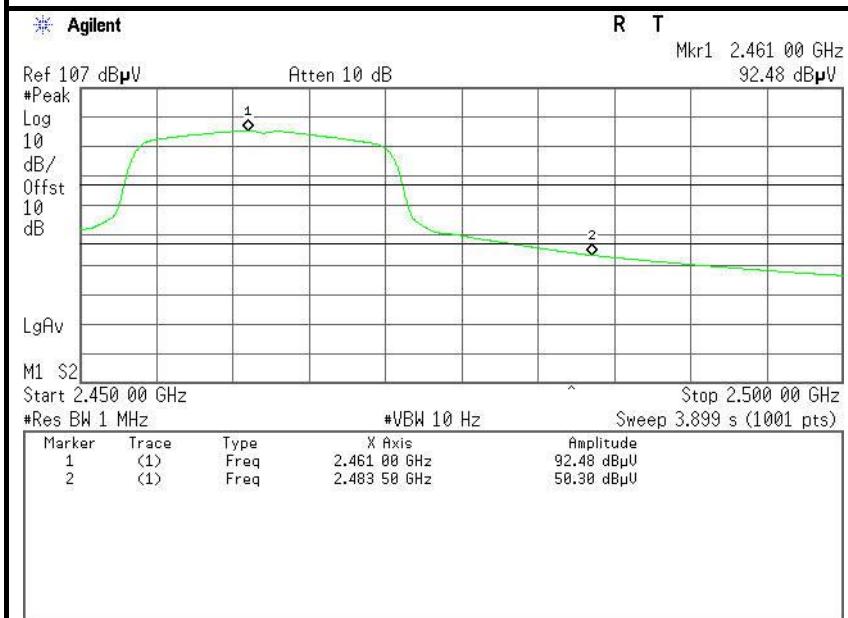
## Detector mode: Peak

## Polarity: Horizontal



## Detector mode: Average

## Polarity: Horizontal

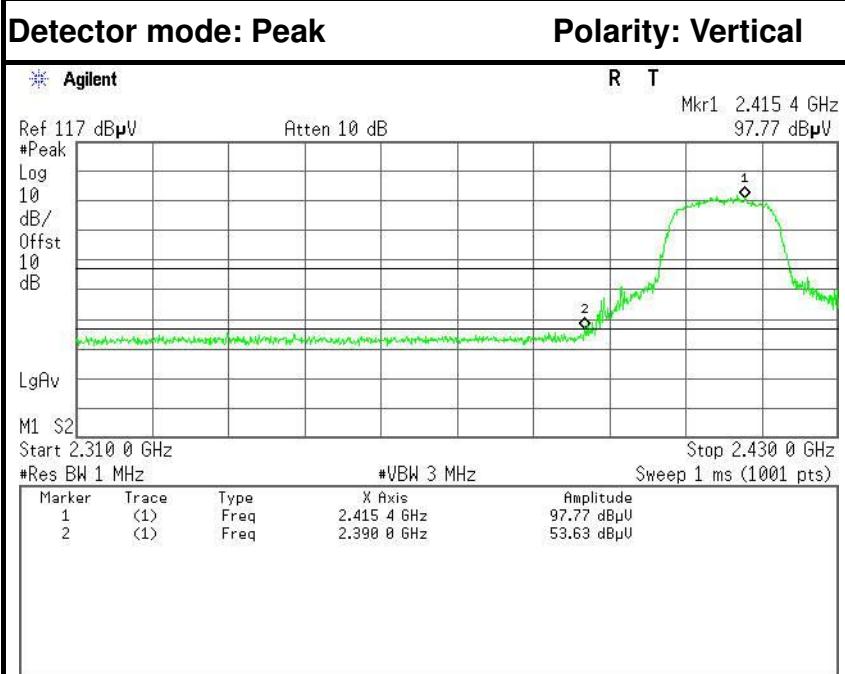


No.	Frequency (MHz)	Reading (dB $\mu$ V)	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	59.49	-6.24	65.73	74.00	-8.27	Peak	Horizontal
2	2483.5000	44.06	-6.24	50.30	54.00	-3.70	Average	Horizontal

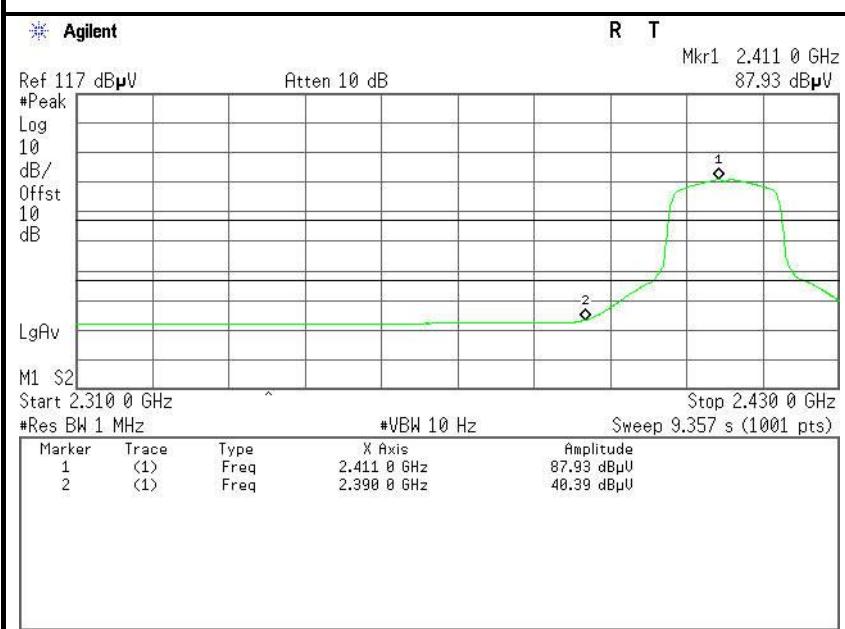


## IEEE 802.11g mode (Antenna 1)

## Band Edges (CH Low)



## Detector mode: Average      Polarity: Vertical

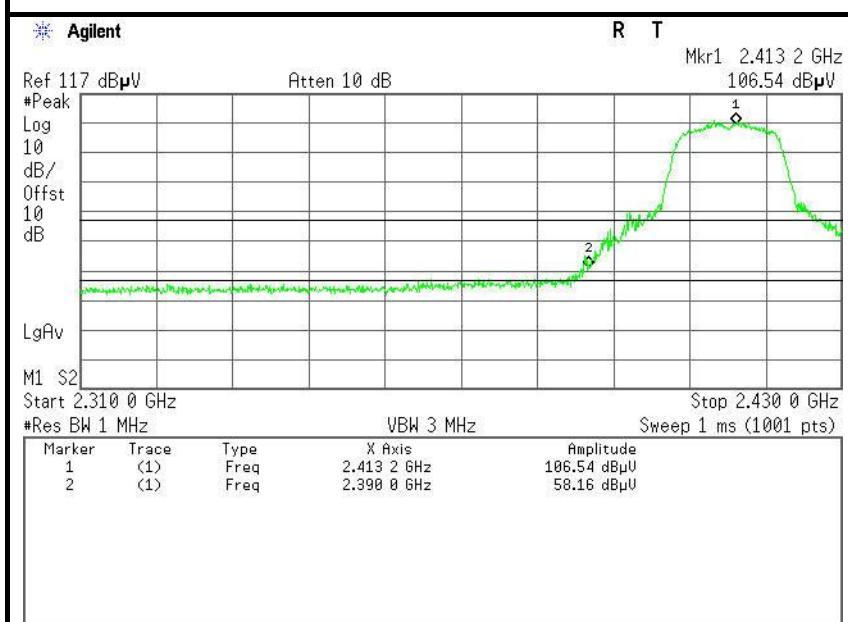


No.	Frequency (MHz)	Reading (dB $\mu$ V)	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	47.03	-6.60	53.63	74.00	-20.37	Peak	Vertical
2	2390.0000	33.79	-6.60	40.39	54.00	-13.61	Average	Vertical



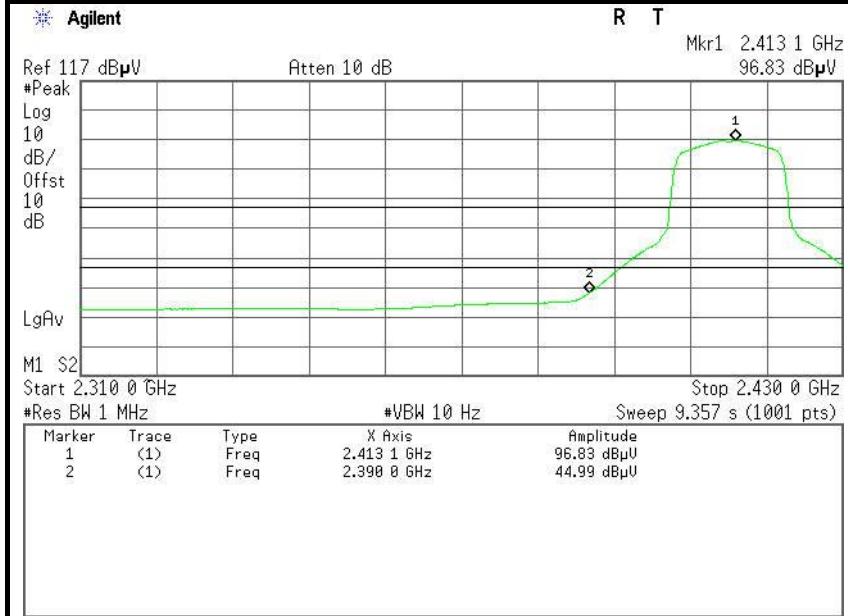
## Detector mode: Peak

## Polarity: Horizontal



## Detector mode: Average

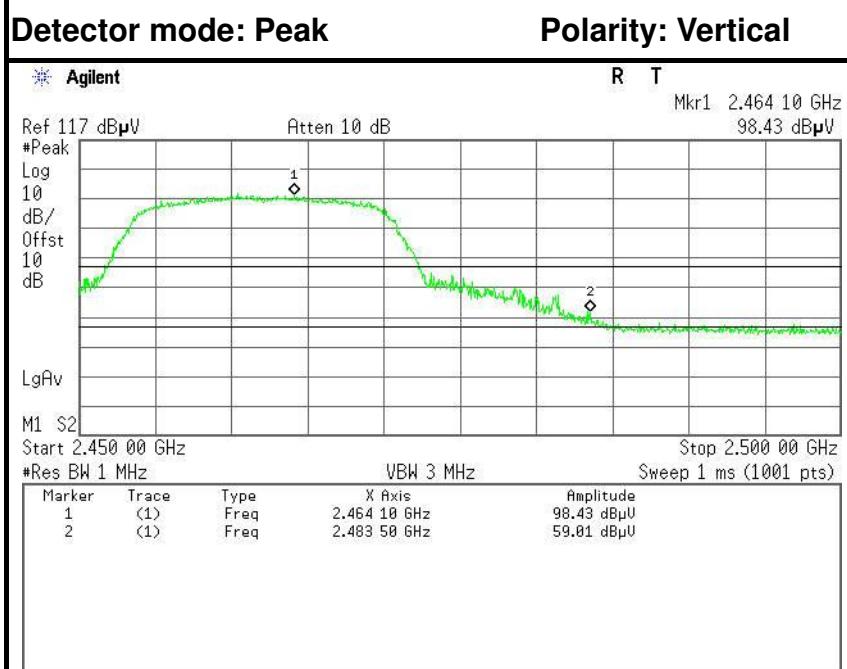
## Polarity: Horizontal



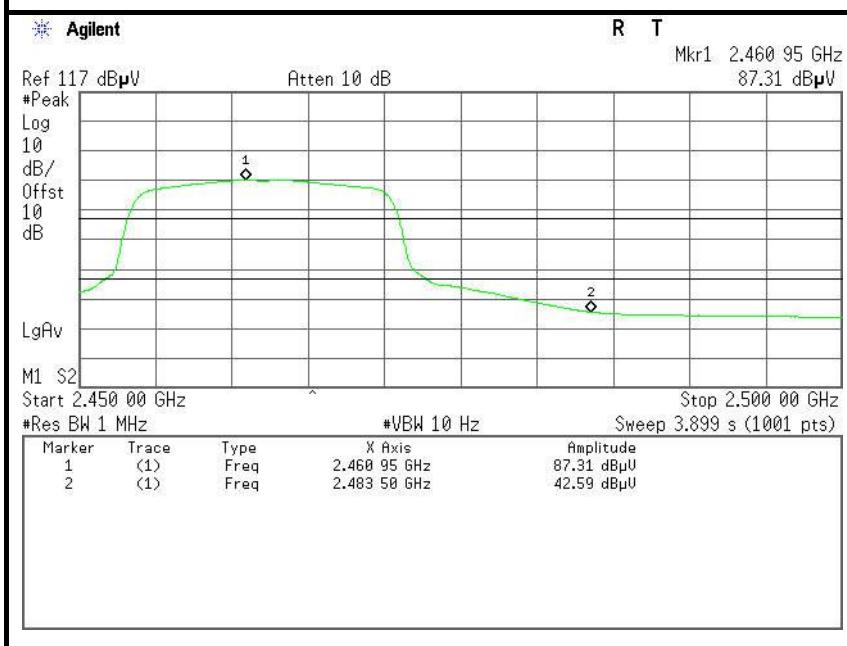
No.	Frequency (MHz)	Reading (dB $\mu$ V)	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	43.56	-6.60	50.16	74.00	-23.84	Peak	Horizontal
2	2390.0000	38.39	-6.60	44.99	54.00	-9.01	Average	Horizontal



## Band Edges (CH High)



## Detector mode: Average      Polarity: Vertical

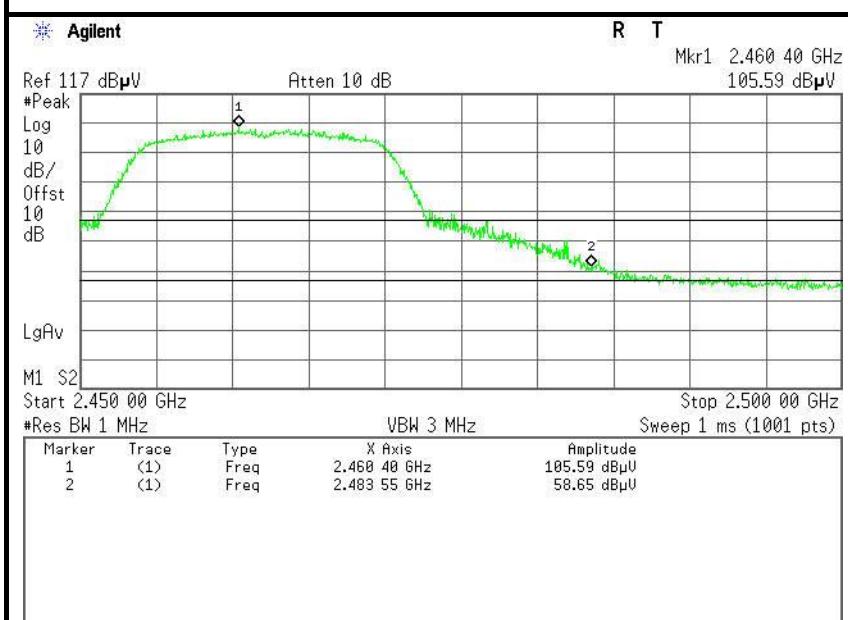


No.	Frequency (MHz)	Reading (dB $\mu$ V)	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	52.77	-6.24	59.01	74.00	-14.99	Peak	Vertical
2	2483.5000	36.35	-6.24	42.59	54.00	-11.41	Average	Vertical



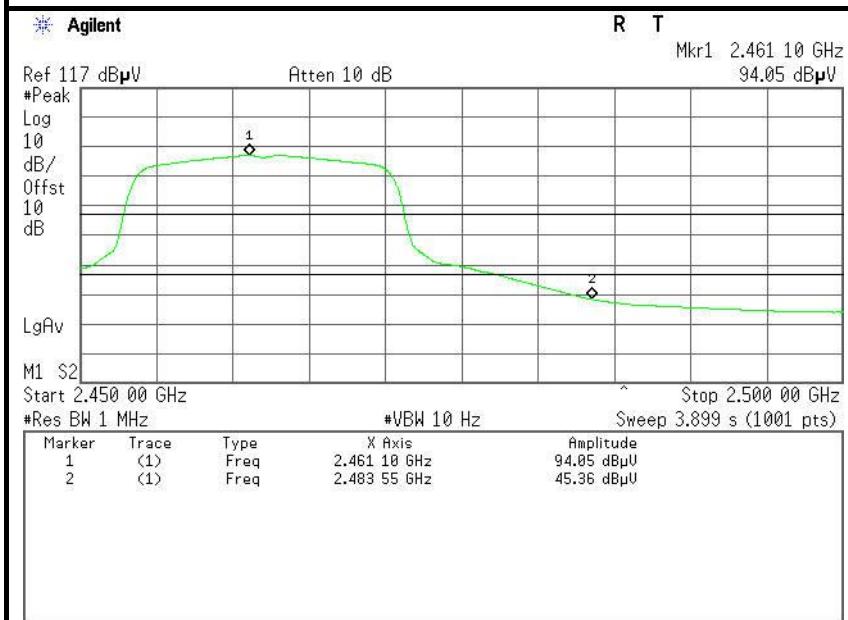
## Detector mode: Peak

## Polarity: Horizontal



## Detector mode: Average

## Polarity: Horizontal

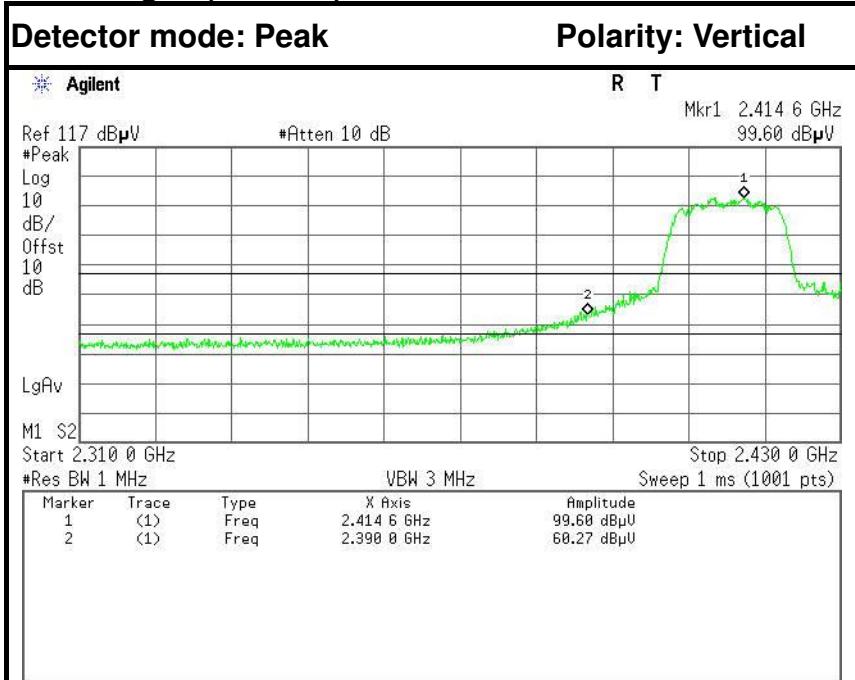


No.	Frequency (MHz)	Reading (dB $\mu$ V)	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	52.41	-6.24	58.65	74.00	-15.35	Peak	Horizontal
2	2483.5000	39.12	-6.24	45.36	54.00	-8.64	Average	Horizontal

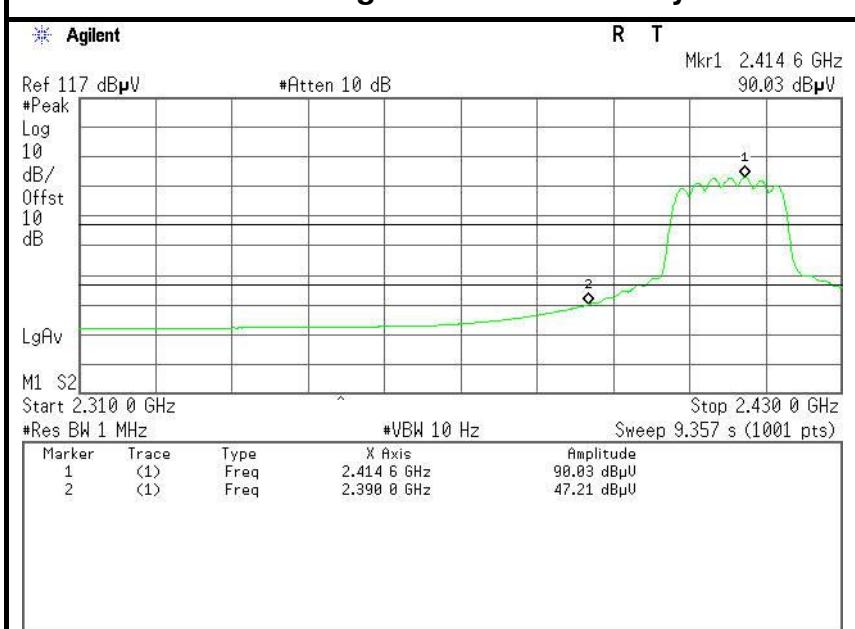


## IEEE 802.11n HT20 MHz mode (Combine with Antenna 0 and Antenna 1)

## Band Edges (CH Low)



## Detector mode: Average      Polarity: Vertical

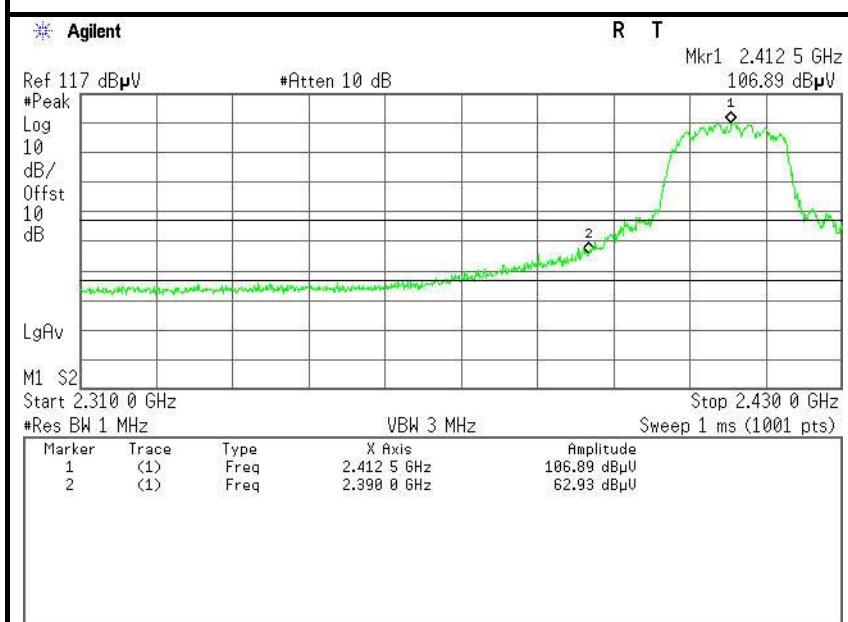


No.	Frequency (MHz)	Reading (dB $\mu$ V)	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	53.67	-6.60	60.27	74.00	-13.73	Peak	Vertical
2	2390.0000	40.61	-6.60	47.21	54.00	-6.79	Average	Vertical



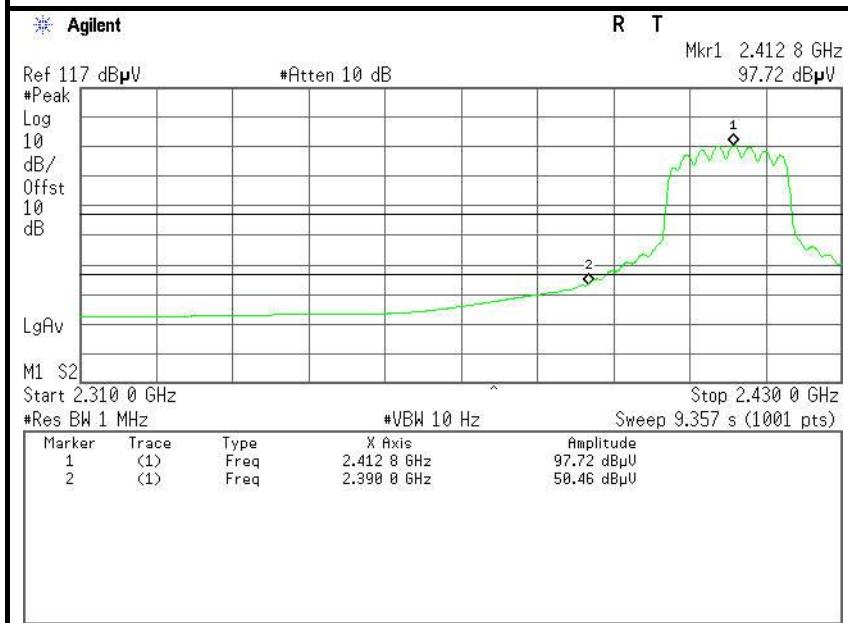
## Detector mode: Peak

## Polarity: Horizontal

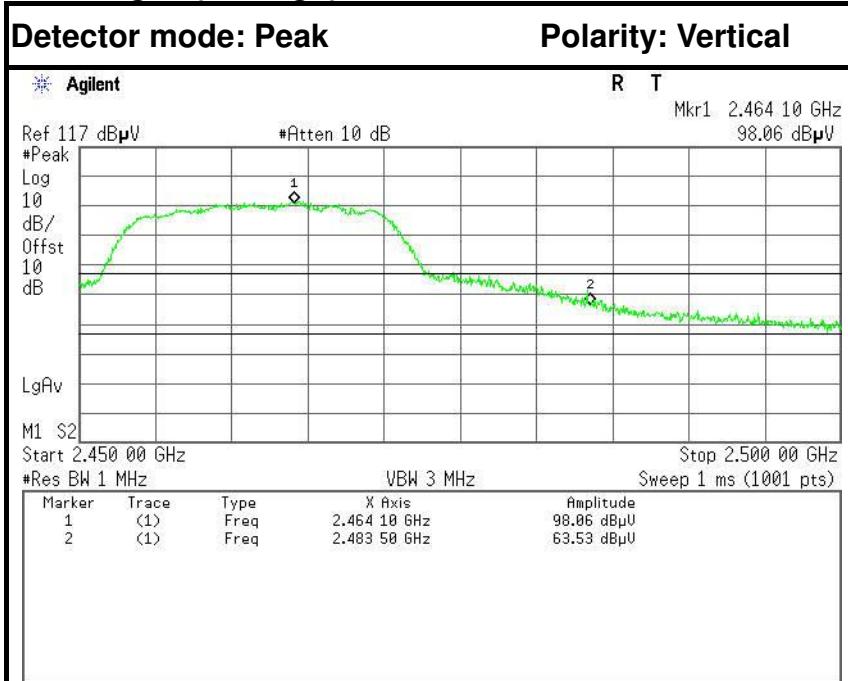
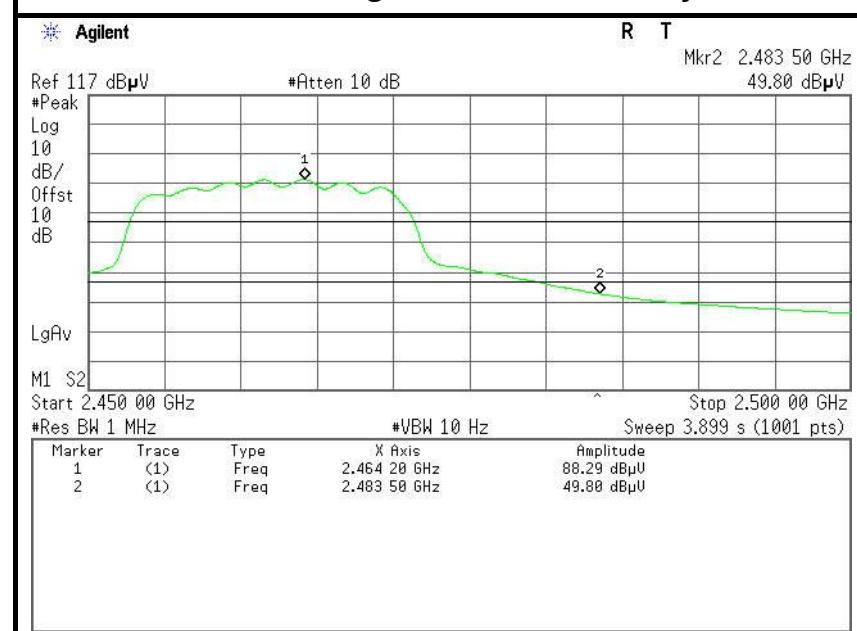


## Detector mode: Average

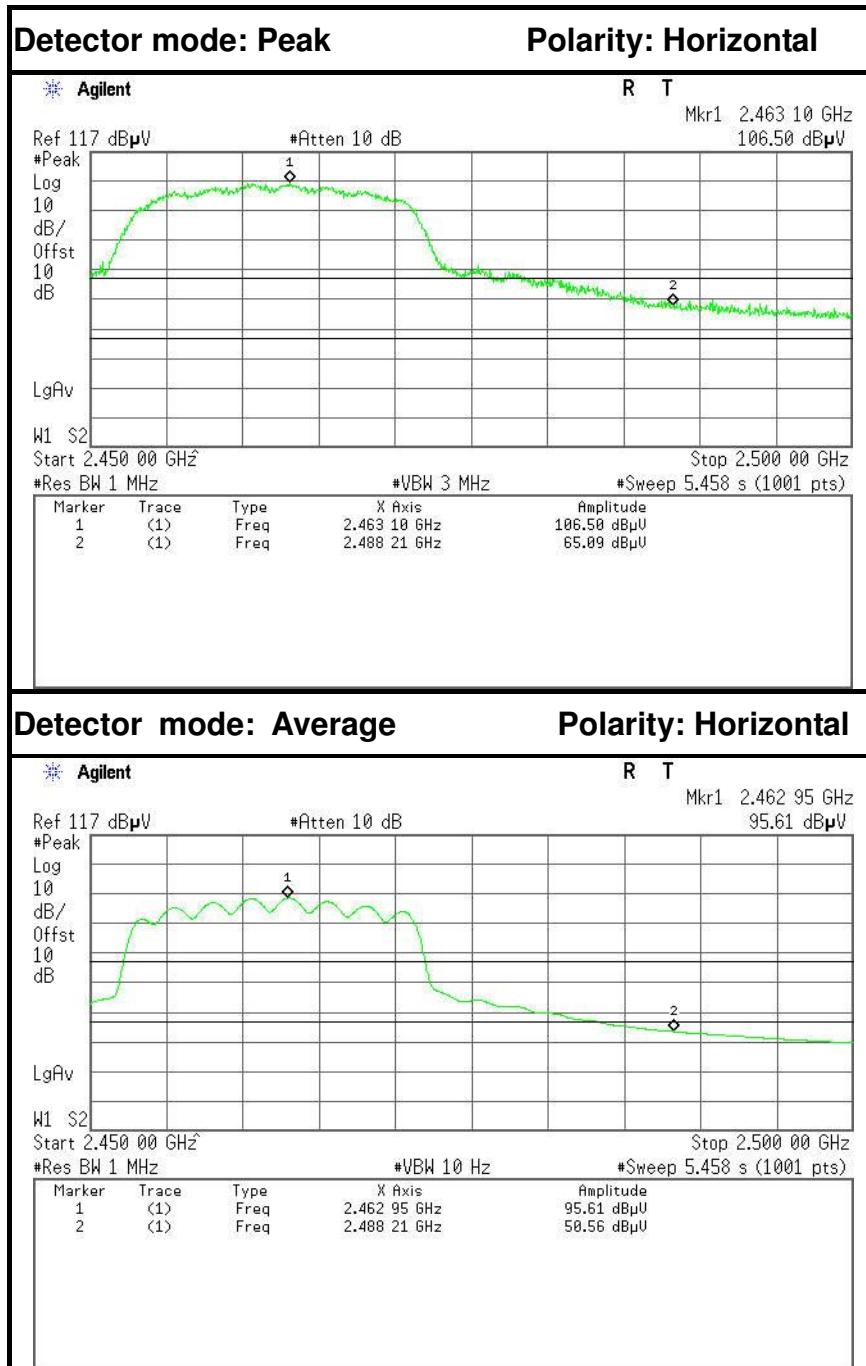
## Polarity: Horizontal



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	56.33	-6.60	62.93	74.00	-11.07	Peak	Horizontal
2	2390.0000	43.86	-6.60	50.46	54.00	-3.54	Average	Horizontal

**Band Edges (CH High)****Detector mode: Average**      **Polarity: Vertical**

No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	57.29	-6.24	63.53	74.00	-10.47	Peak	Vertical
2	2483.5000	43.56	-6.24	49.80	54.00	-4.20	Average	Vertical

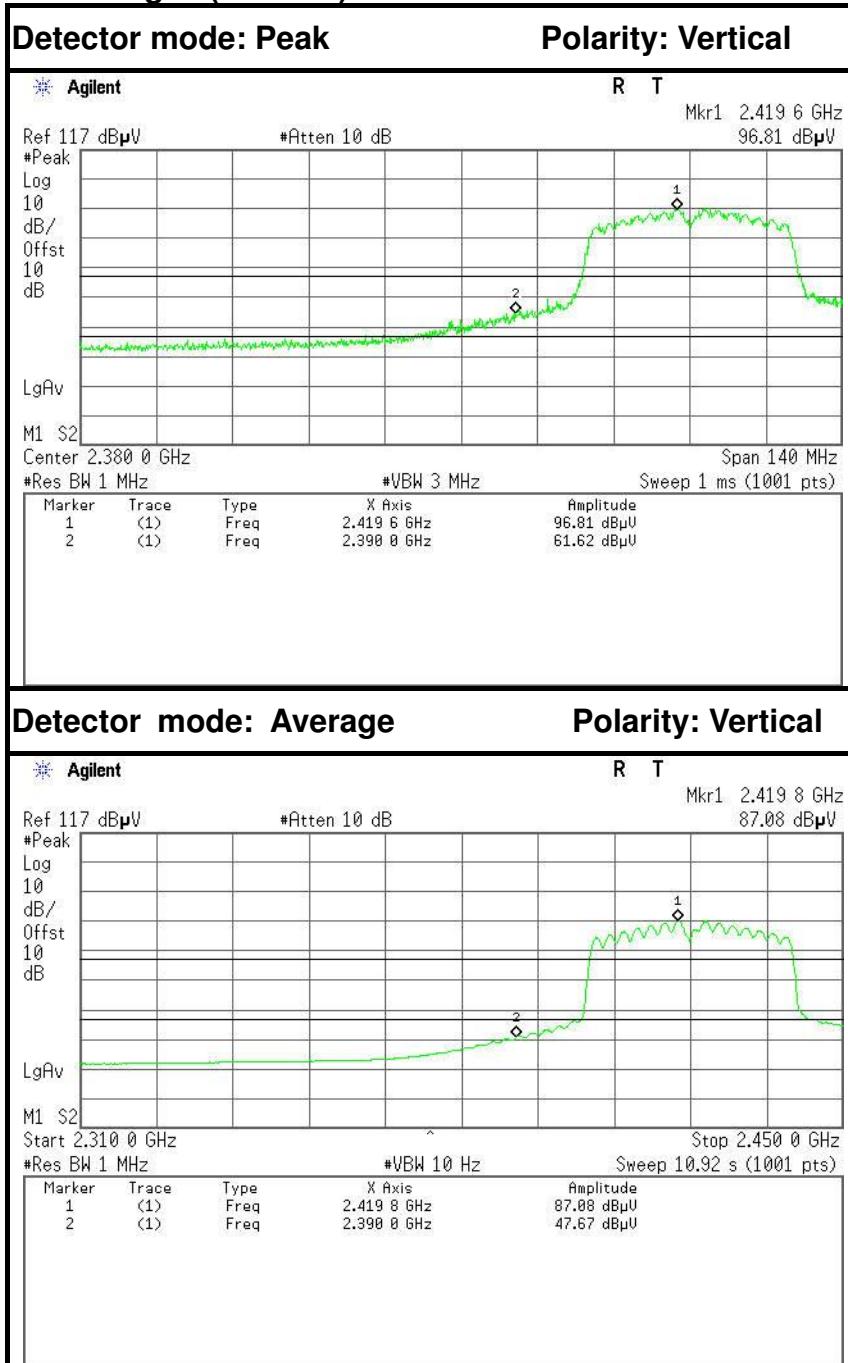


No.	Frequency (MHz)	Reading (dB $\mu$ V)	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	58.85	-6.24	65.09	74.00	-8.91	Peak	Horizontal
2	2483.5000	44.32	-6.24	50.56	54.00	-3.44	Average	Horizontal



## IEEE 802.11n HT40 MHz mode (Combine with Antenna 0 and Antenna 1)

## Band Edges (CH Low)



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Corrected (dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	55.02	-6.60	61.62	74.00	-12.38	Peak	Vertical
2	2390.0000	41.07	-6.60	47.67	54.00	-6.33	Average	Vertical