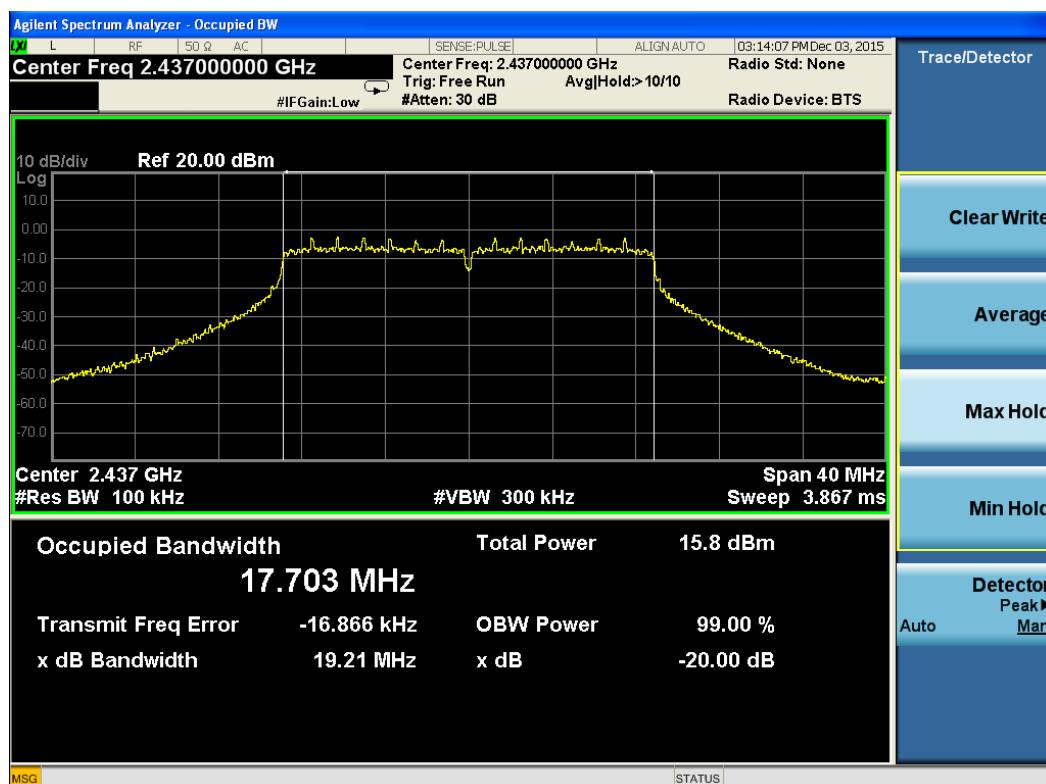
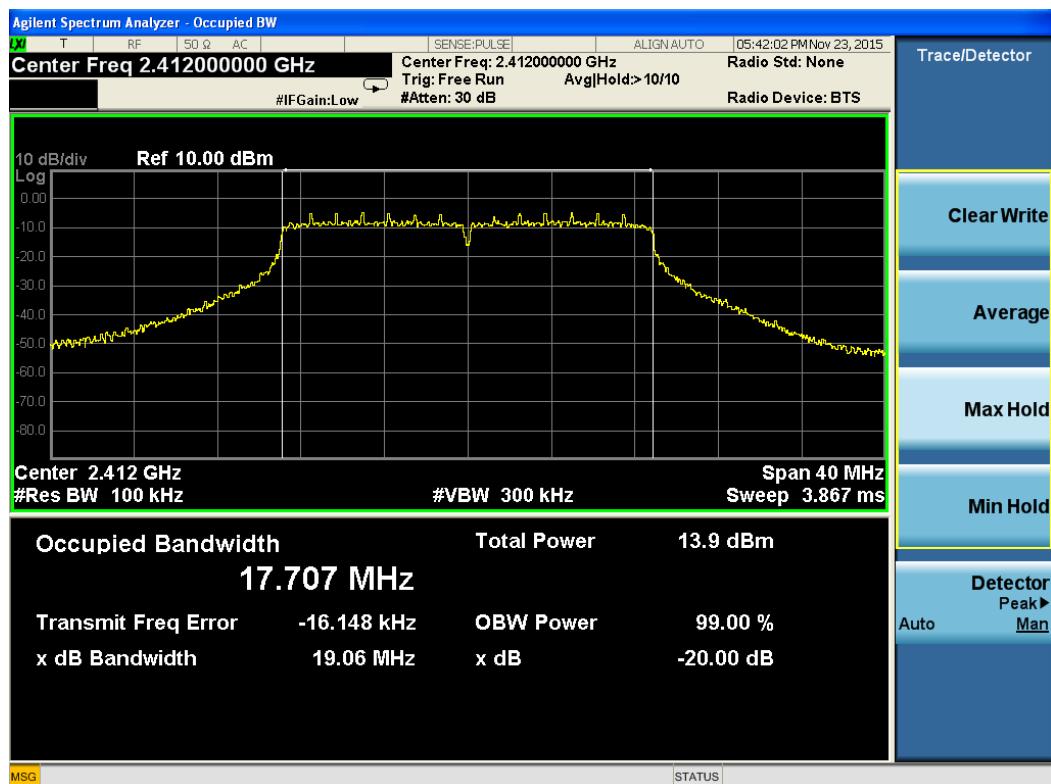


802.11n HT20 channel, 20dB bandwidth / Chain 1



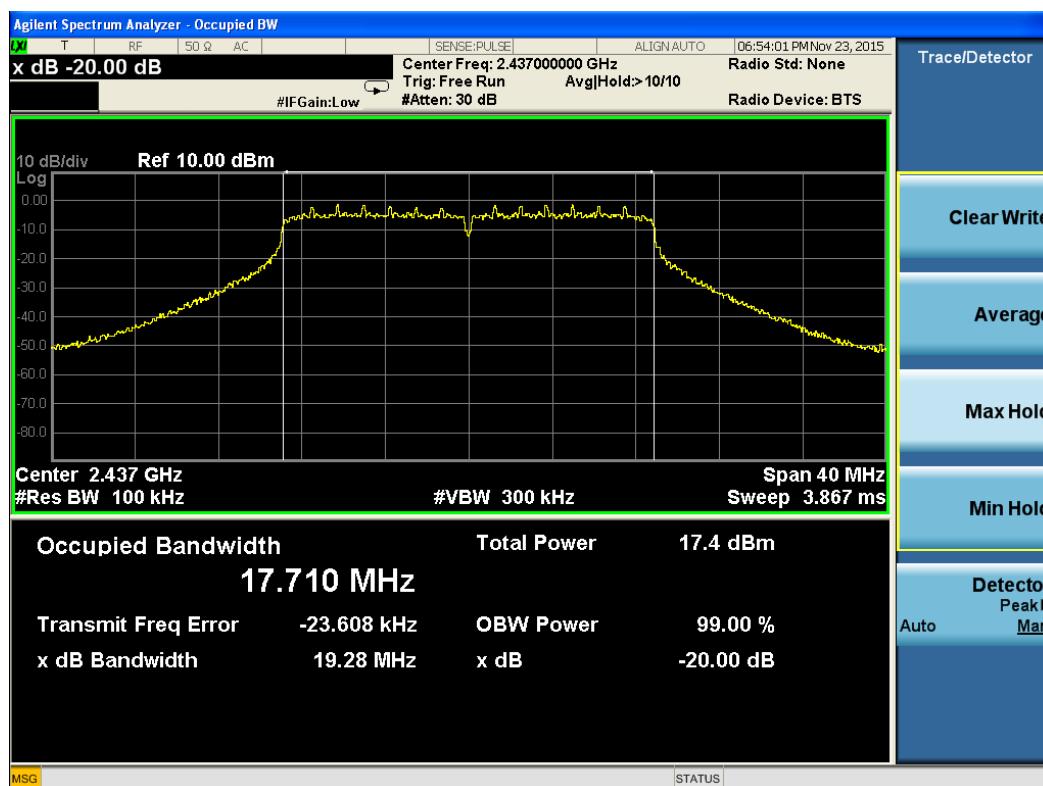
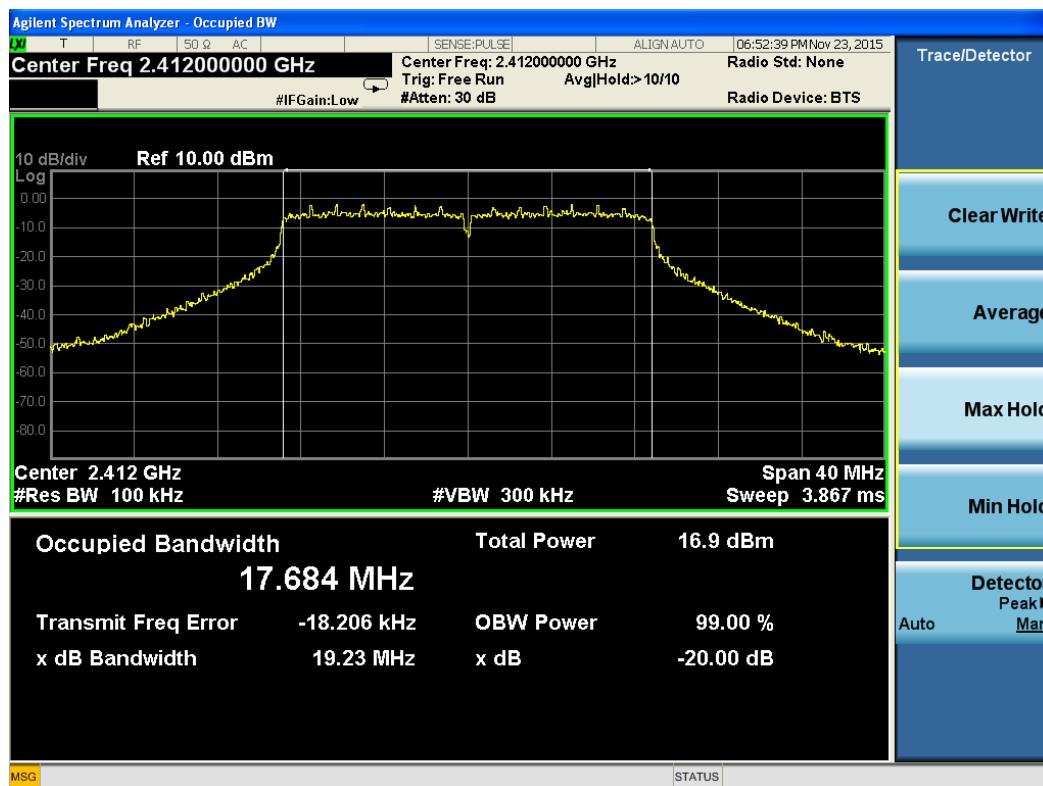


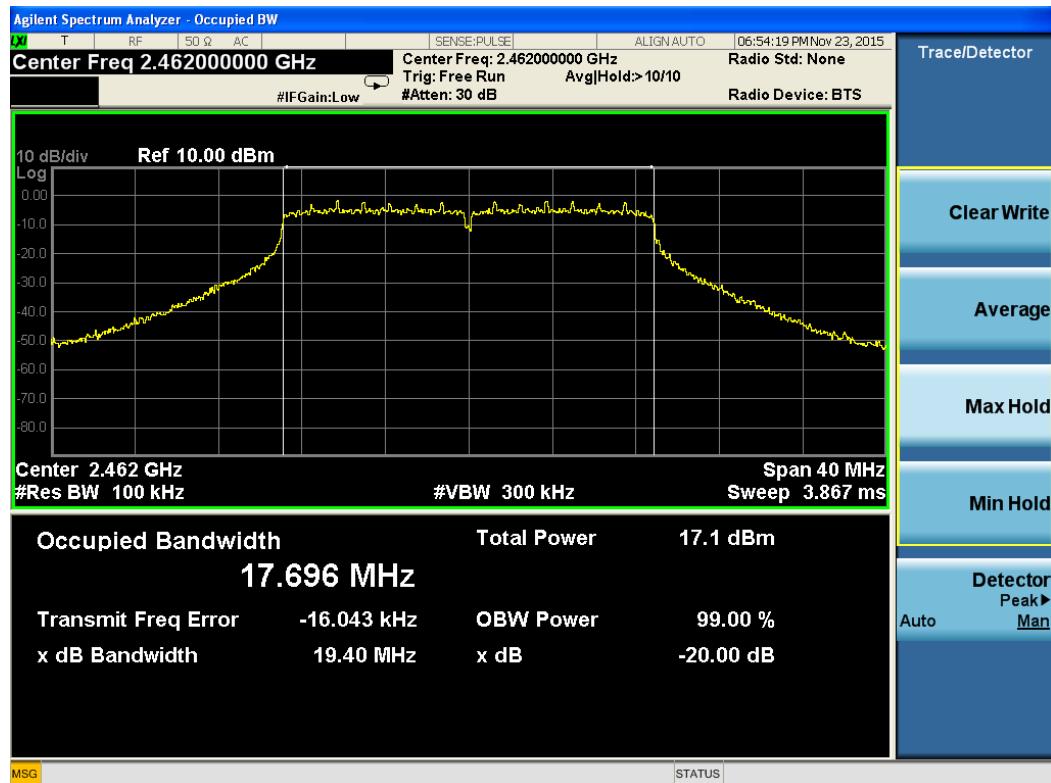
802.11n HT20 channel, 20dB bandwidth / Chain 2



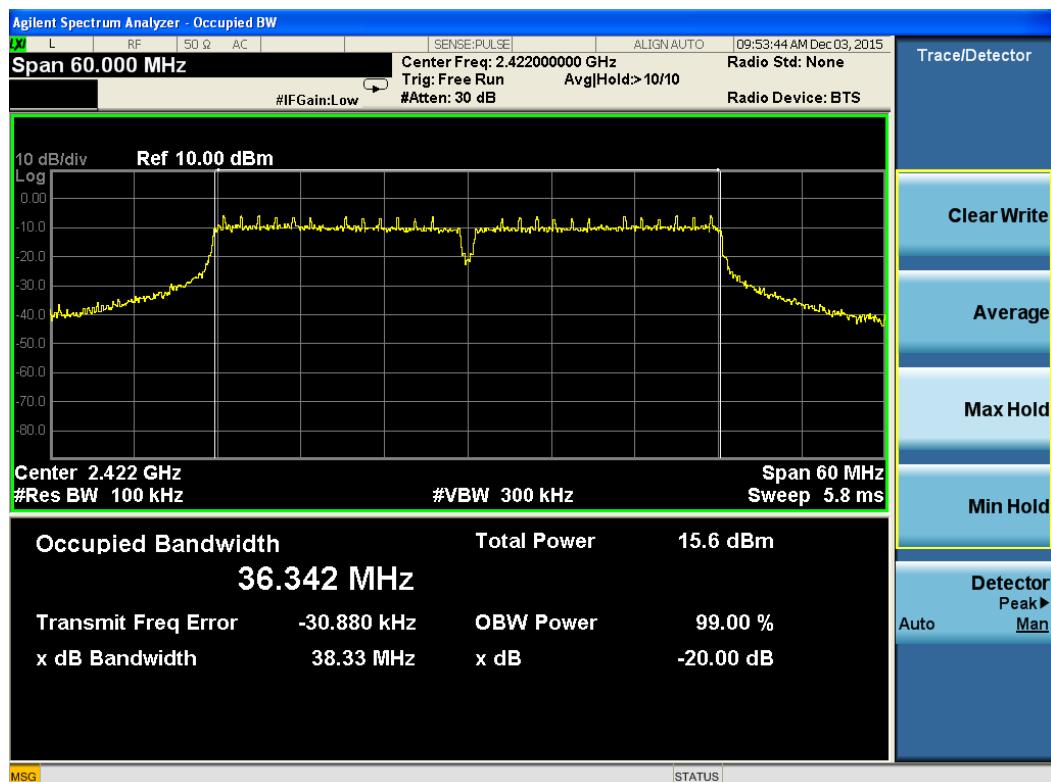


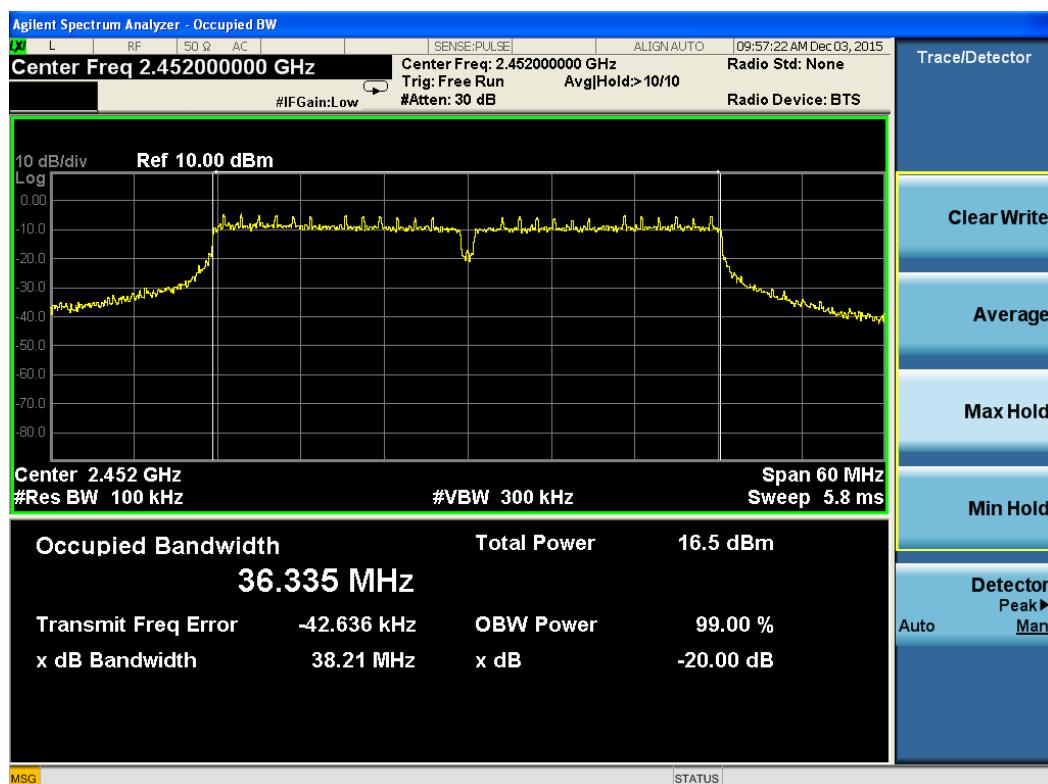
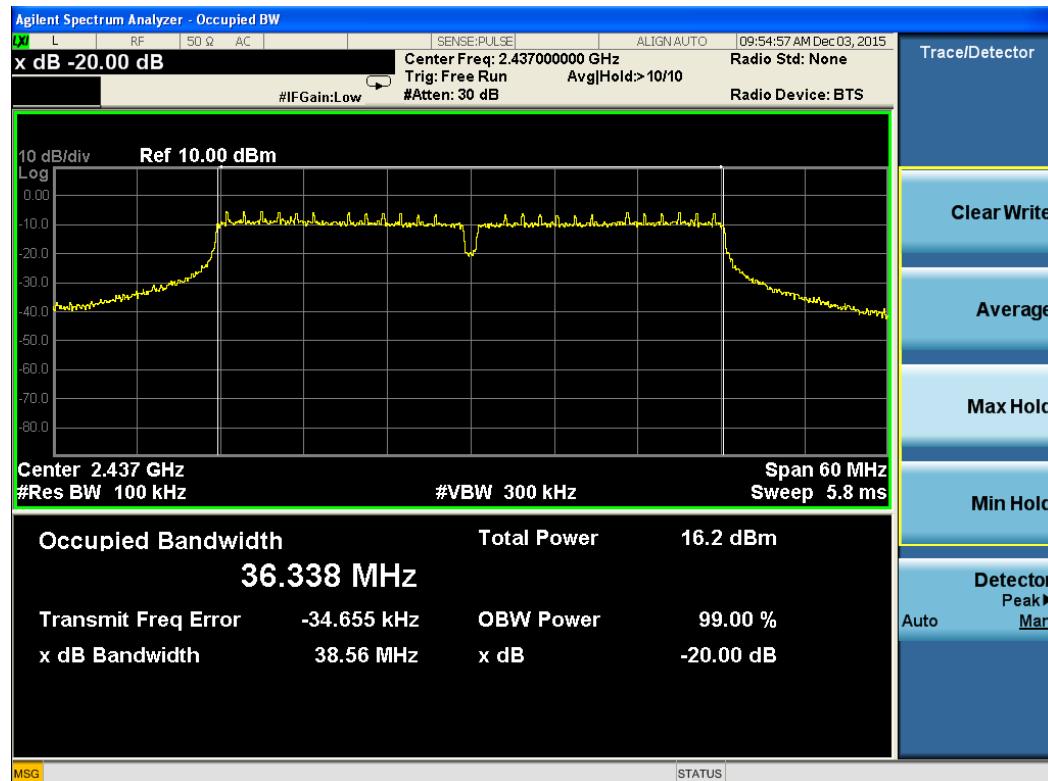
802.11n HT20 channel, 20dB bandwidth / Chain 3



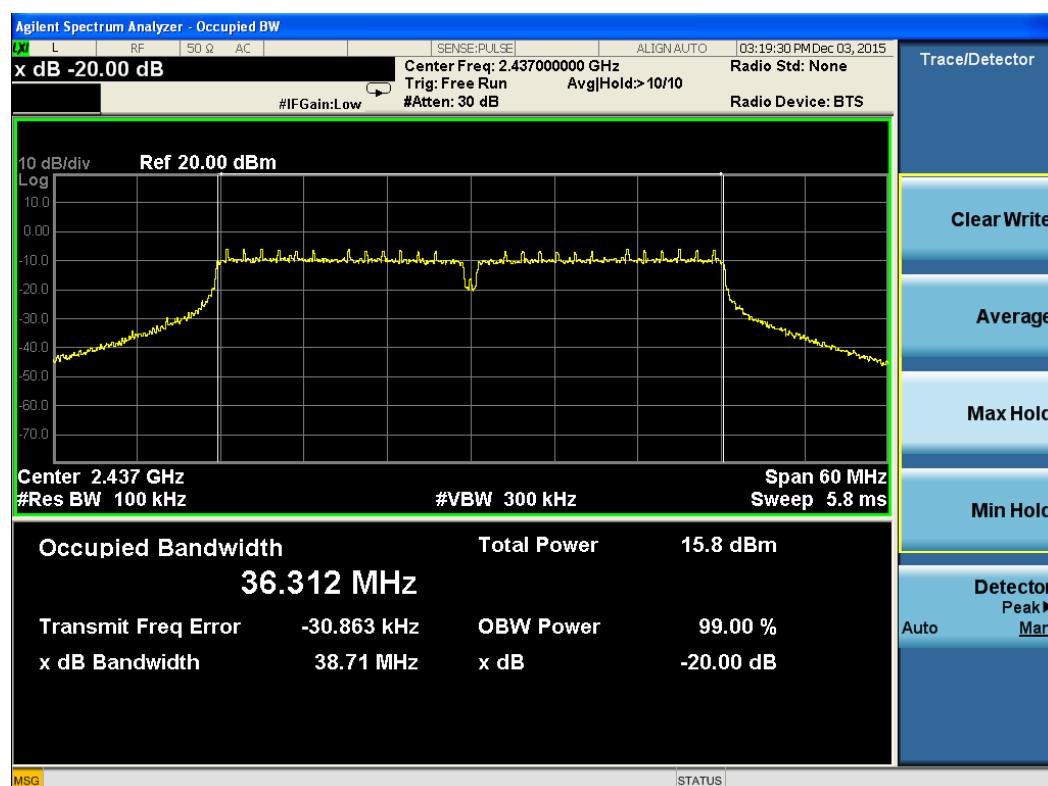


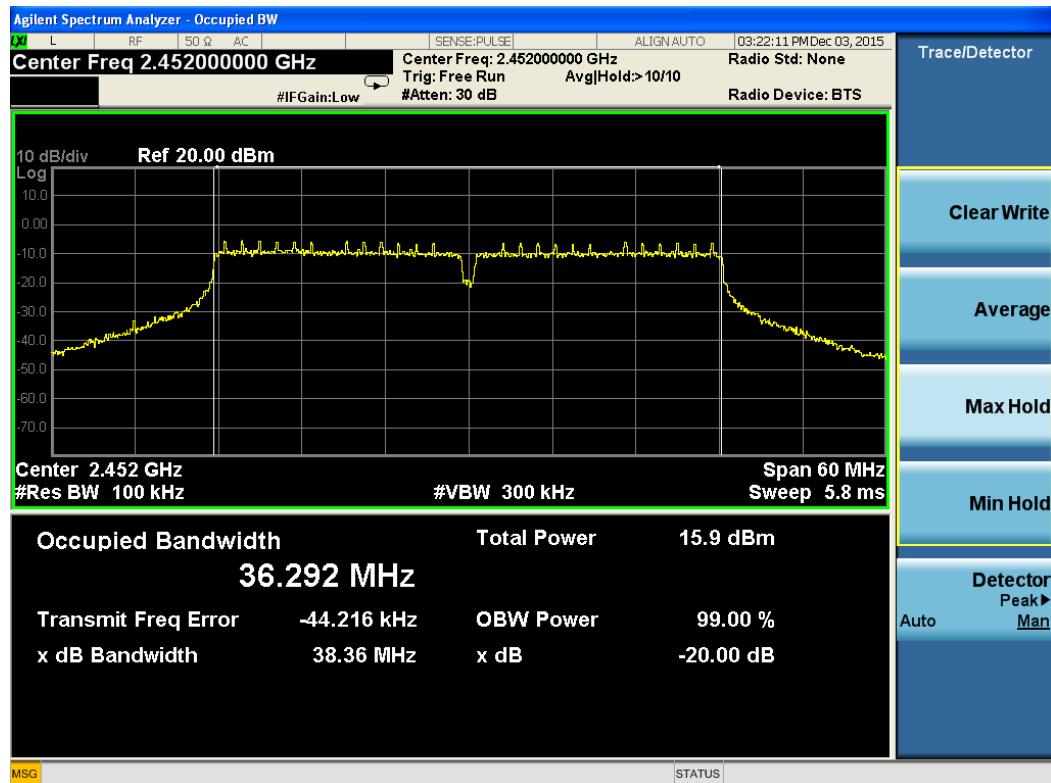
802.11n HT40 channel, 20dB bandwidth / Chain 0



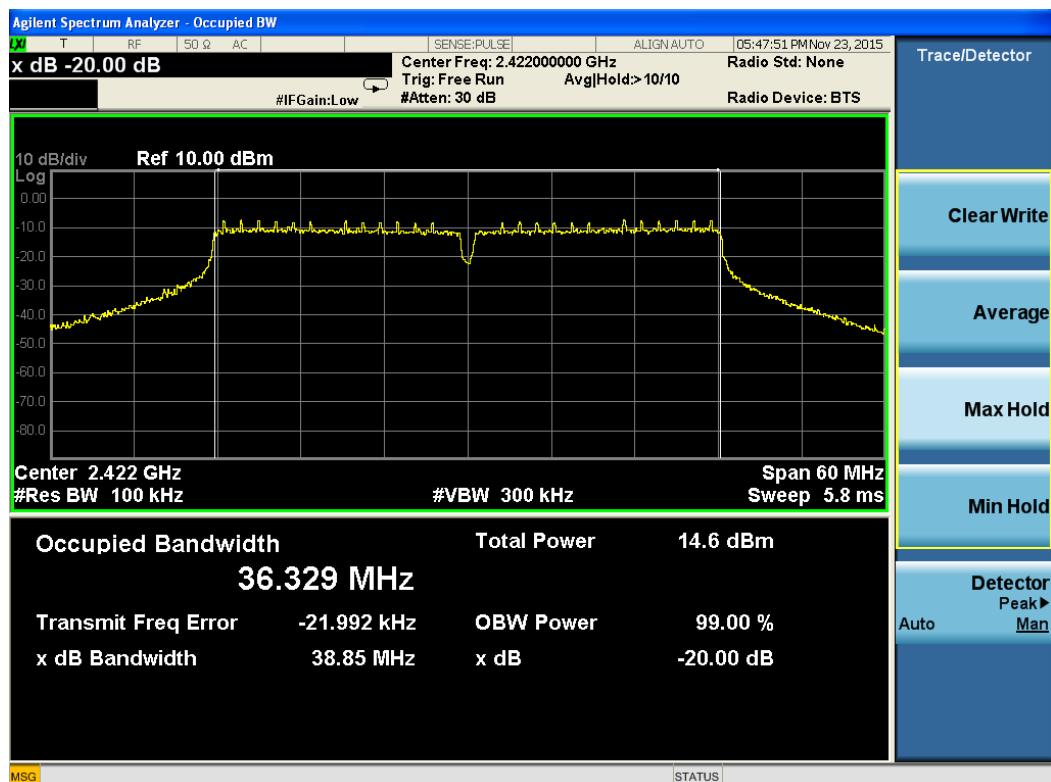


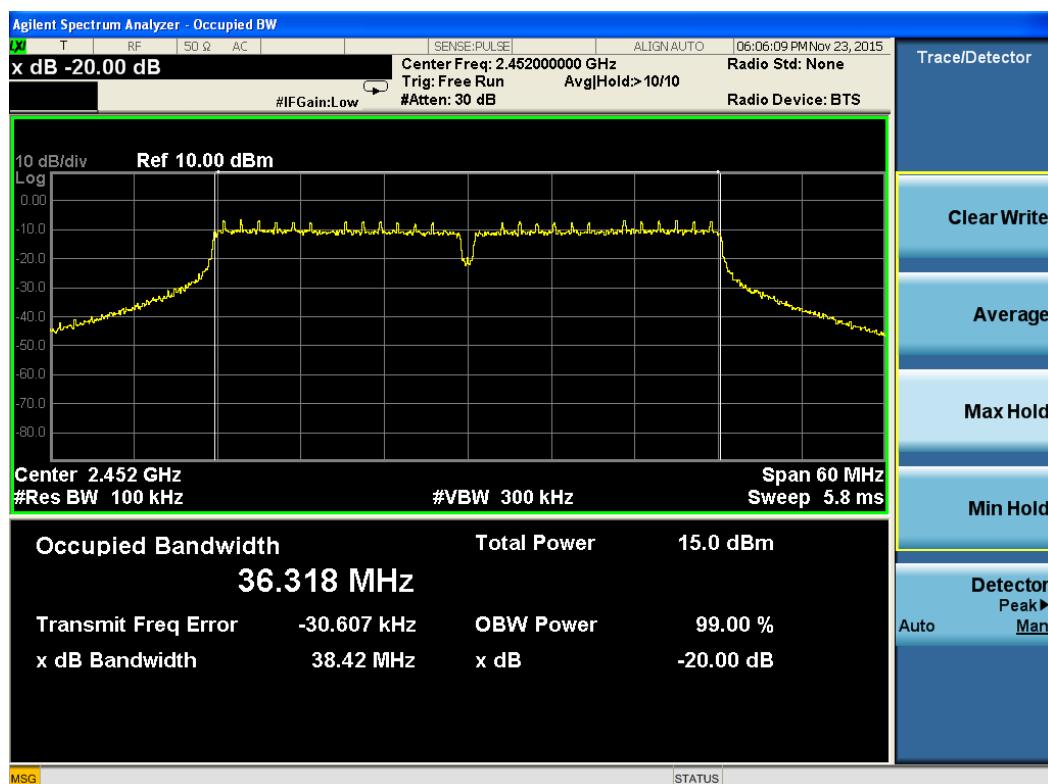
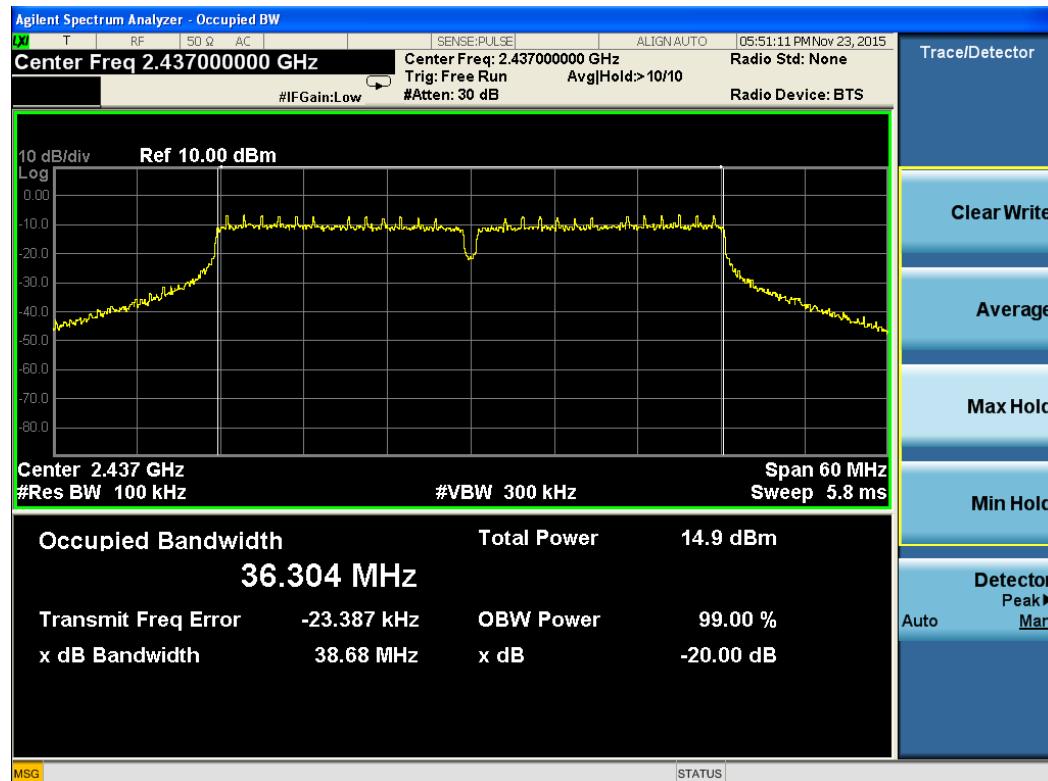
802.11n HT40 channel, 20dB bandwidth / Chain 1



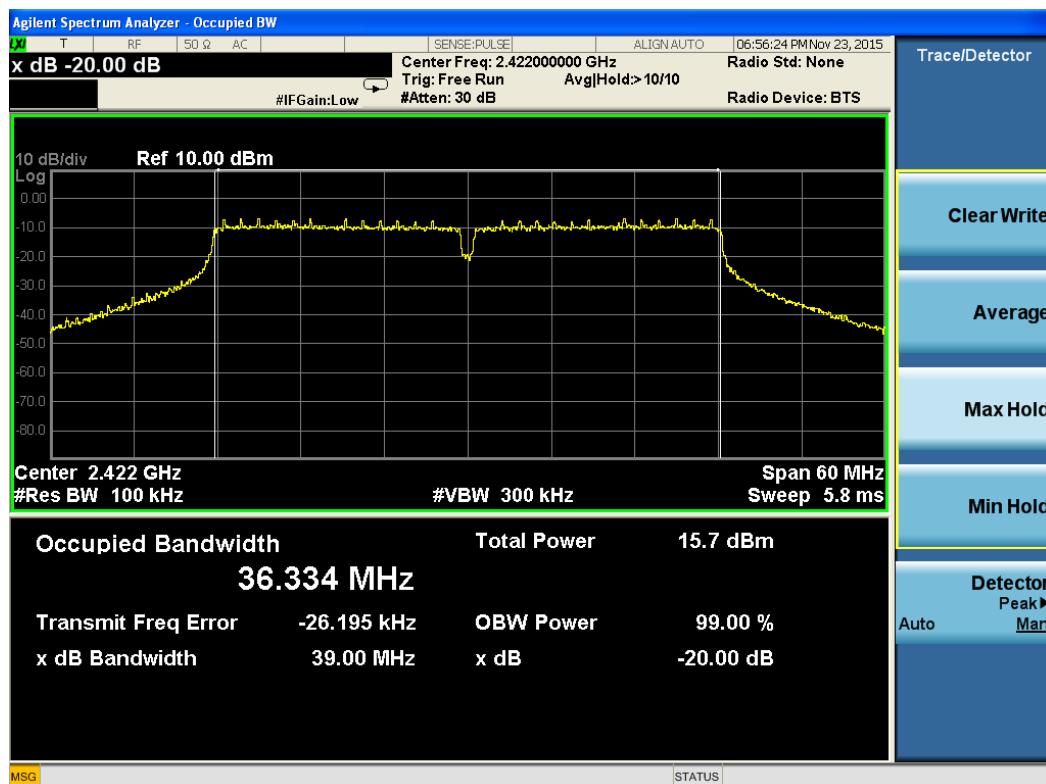


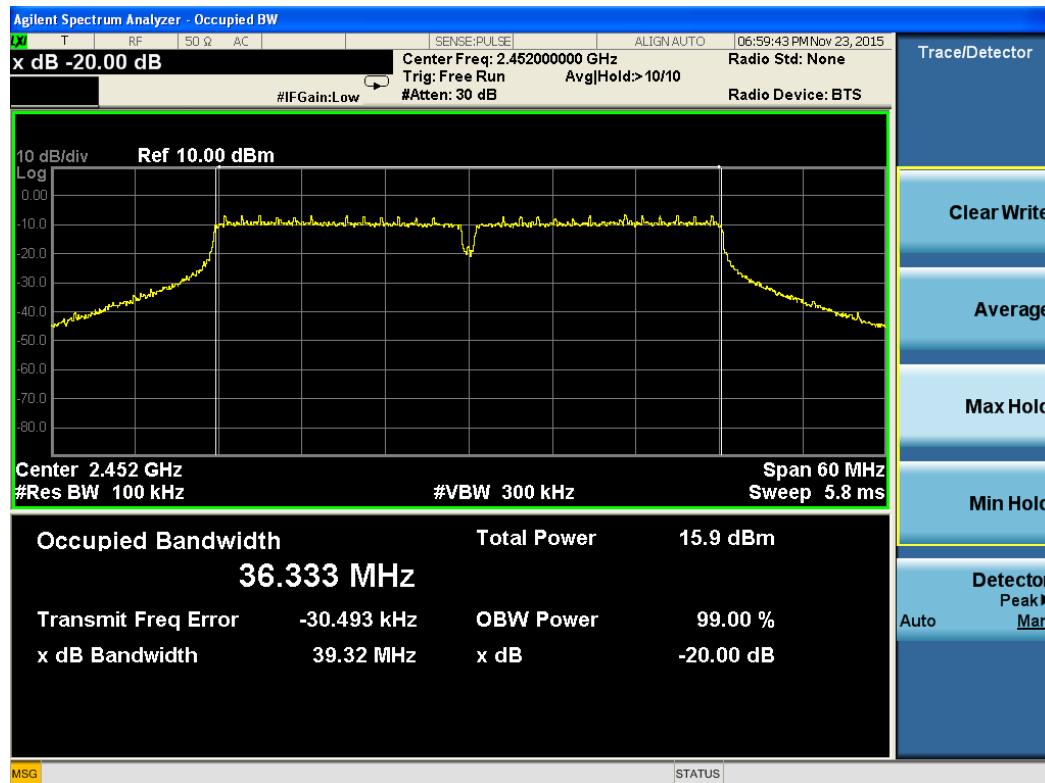
802.11n HT40 channel, 20dB bandwidth / Chain 2





802.11n HT40 channel, 20dB bandwidth / Chain 3





## 6.4. Occupied Bandwidth

#### 6.4.1. Standard Applicable

According to §15.247(a): Operation under the provisions of this section is limited to frequency hopping and digitally modulated intentional radiators that comply with the following provisions:

For systems using digital modulation techniques, the EUT may operate in the 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz.

#### 6.4.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of the Spectrum Analyzer.

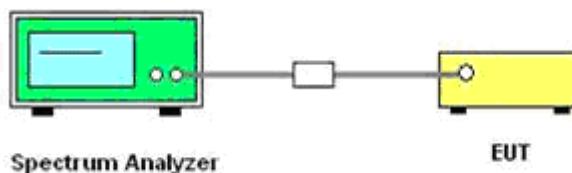
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> RBW
RBW	1% to 3% of the band
VBW	3 times the RBW
Detector	Peak
Trace	Max Hold
Sweep Time	100ms

## 5

#### 6.4.3. Test Procedures

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal bandwidth measurement function is utilized.

#### 6.4.4. Test Setup Layout



#### 6.4.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

## 6.5. Radiated Emissions Measurement

### 6.5.1. Standard Applicable

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies(MHz)	Field Strength(microvolts/meter)	Measurement Distance(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

### 6.5.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

### 6.5.3. Test Procedures

#### 1) Sequence of testing 9 kHz to 30 MHz

##### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.

- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

**Premeasurement:**

- The turntable rotates from 0 ° to 315 ° using 45 ° steps.
- The antenna height is 0.8 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

**Final measurement:**

- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0 ° to 360 °) and by rotating the elevation axes (0 ° to 360 °).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

## 2) Sequence of testing 30 MHz to 1 GHz

### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

### Premeasurement:

- The turntable rotates from 0 ° to 315 ° using 45 ° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 3 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

### Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ( $\pm 45$  °) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

## 3) Sequence of testing 1 GHz to 18 GHz

## Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 3 meter.
- The EUT was set into operation.

## Premeasurement:

- The turntable rotates from 0 ° to 315 ° using 45 ° steps.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 2.5 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

## Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ( $\pm 45^\circ$ ) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

#### 4) Sequence of testing above 18 GHz

##### Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- The measurement distance is 1 meter.
- The EUT was set into operation.

##### Premeasurement:

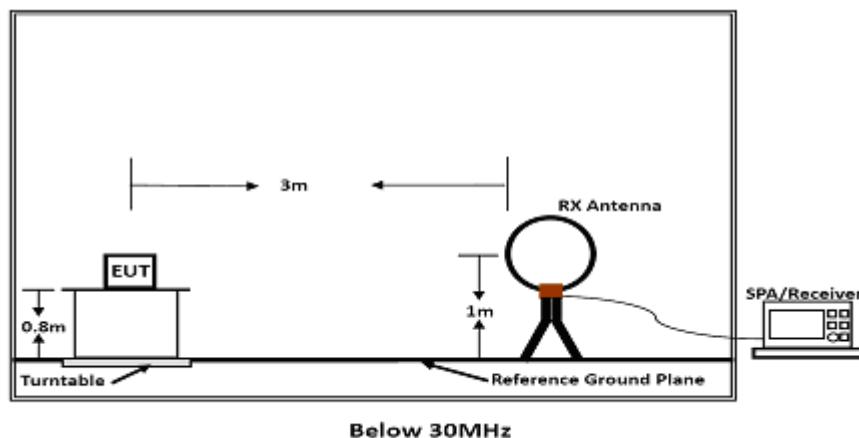
- The antenna is moved spherical over the EUT in different polarizations of the antenna.

##### Final measurement:

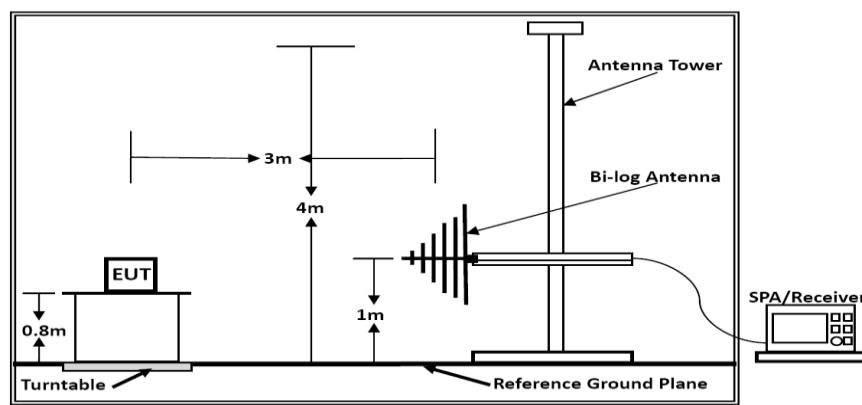
- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

#### 6.5.4. Test Setup Layout

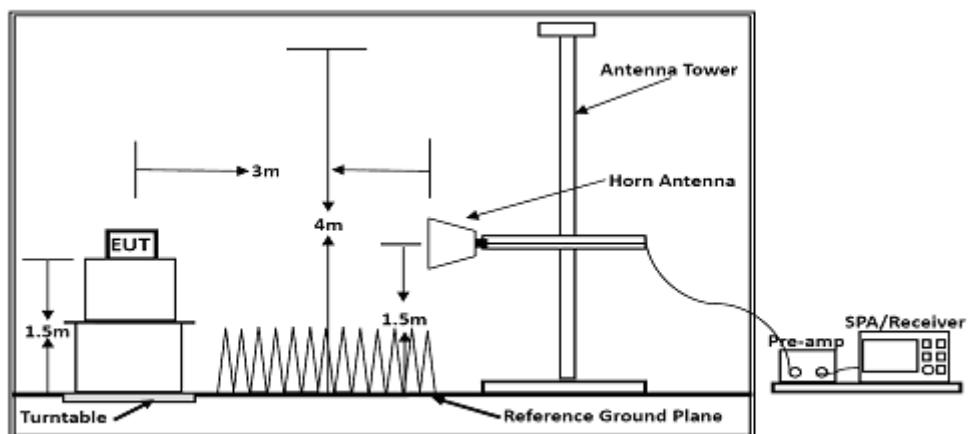
##### For radiated emissions below 30MHz



For radiated emissions above 30MHz



**Below 1GHz**



**Above 1GHz**

Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1.5m.

Distance extrapolation factor =  $20 \log (\text{specific distance [3m]} / \text{test distance [1.5m]})$  (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

### 5.5.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

## 6.5.6. Results of Radiated Emissions (9kHz~30MHz)

Temperature	25°C	Humidity	60%
Test Engineer	Kyle	Configurations	802.11a/n

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
-	-	-	-	See Note

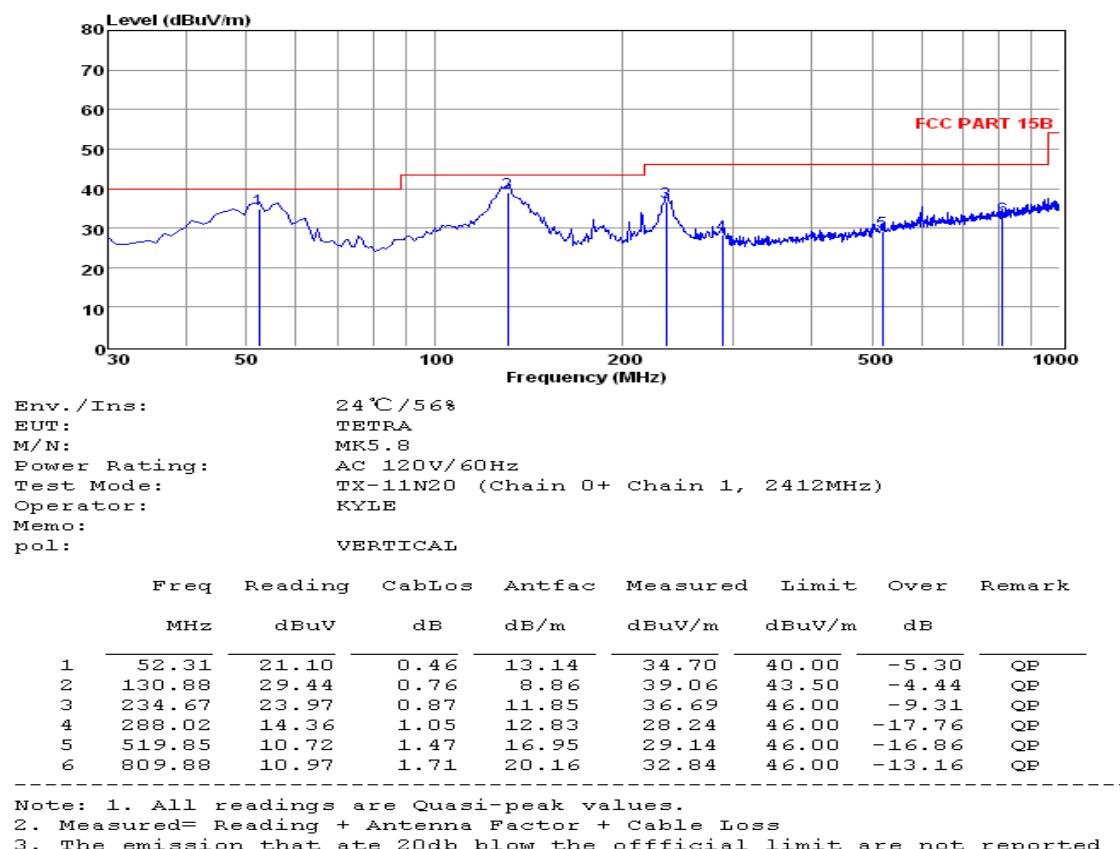
Note:

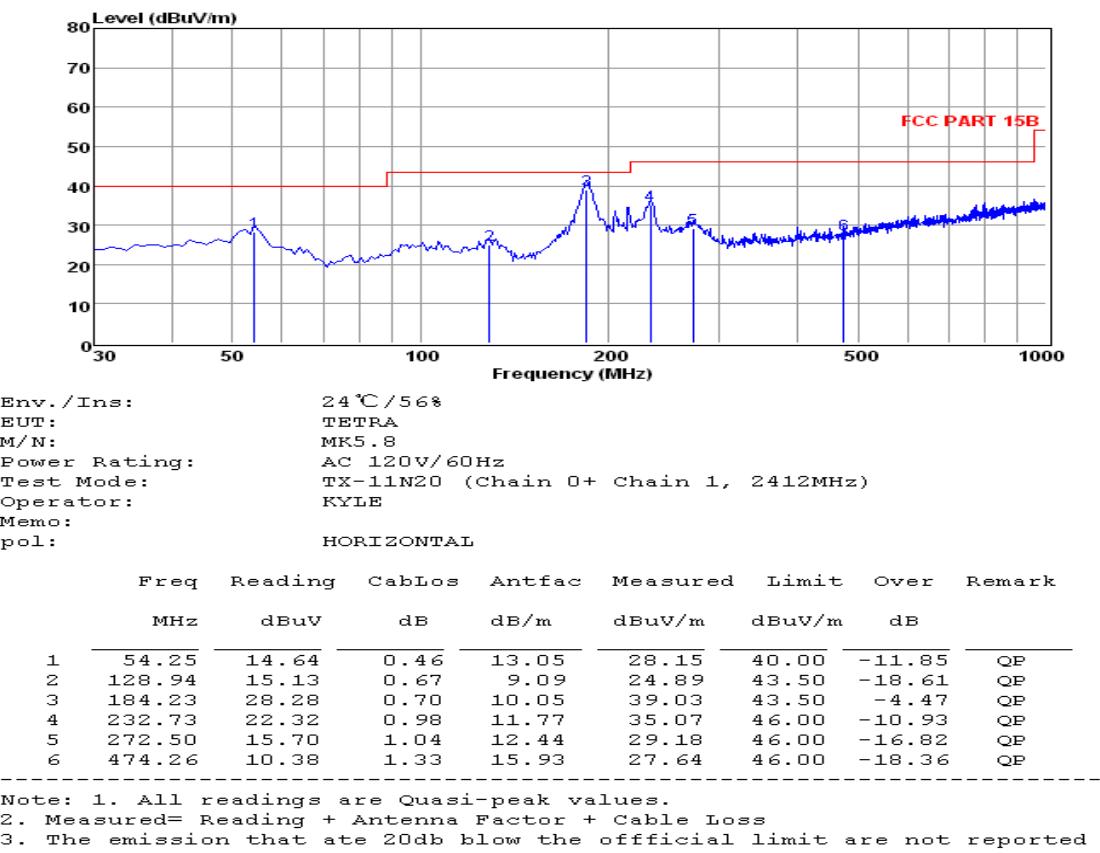
The radiated emissions from 9kHz to 30MHz are at least 20dB below the official limit and no need to report.

## 6.5.7. Results of Radiated Emissions (30MHz~1GHz)

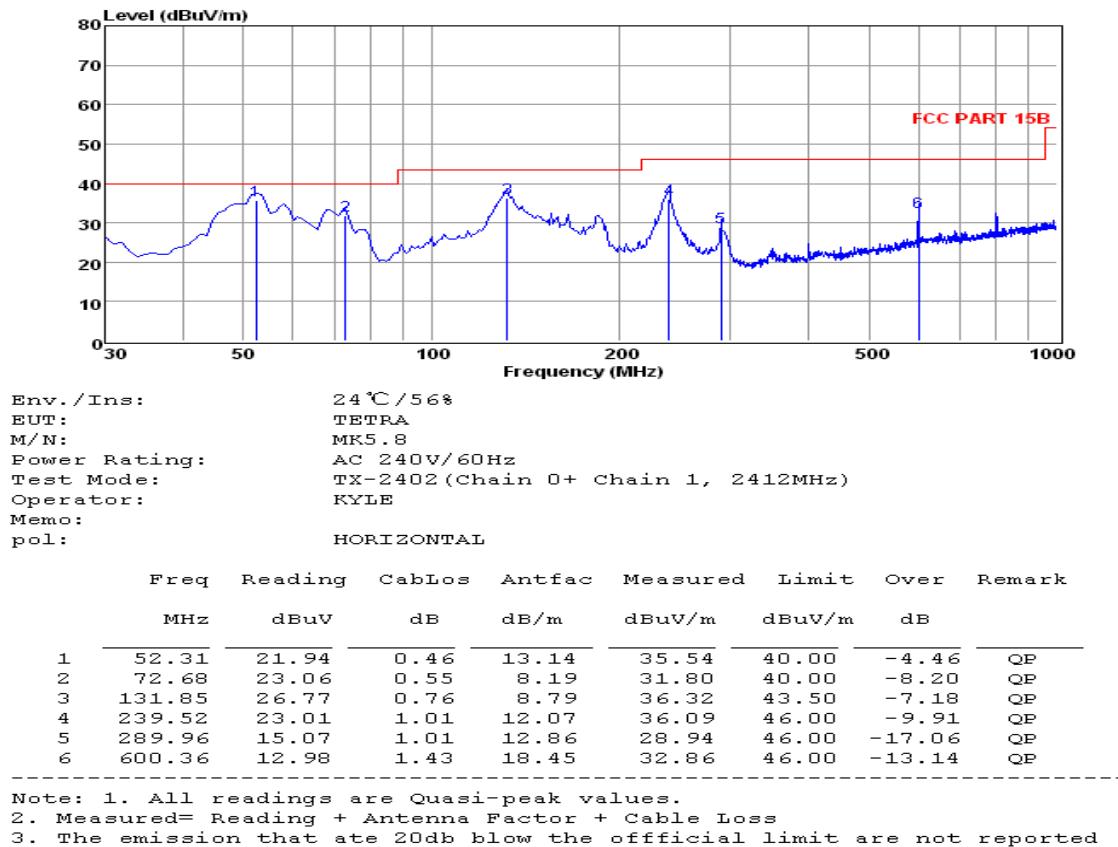
*Note: Only record the worst test result in this report.*

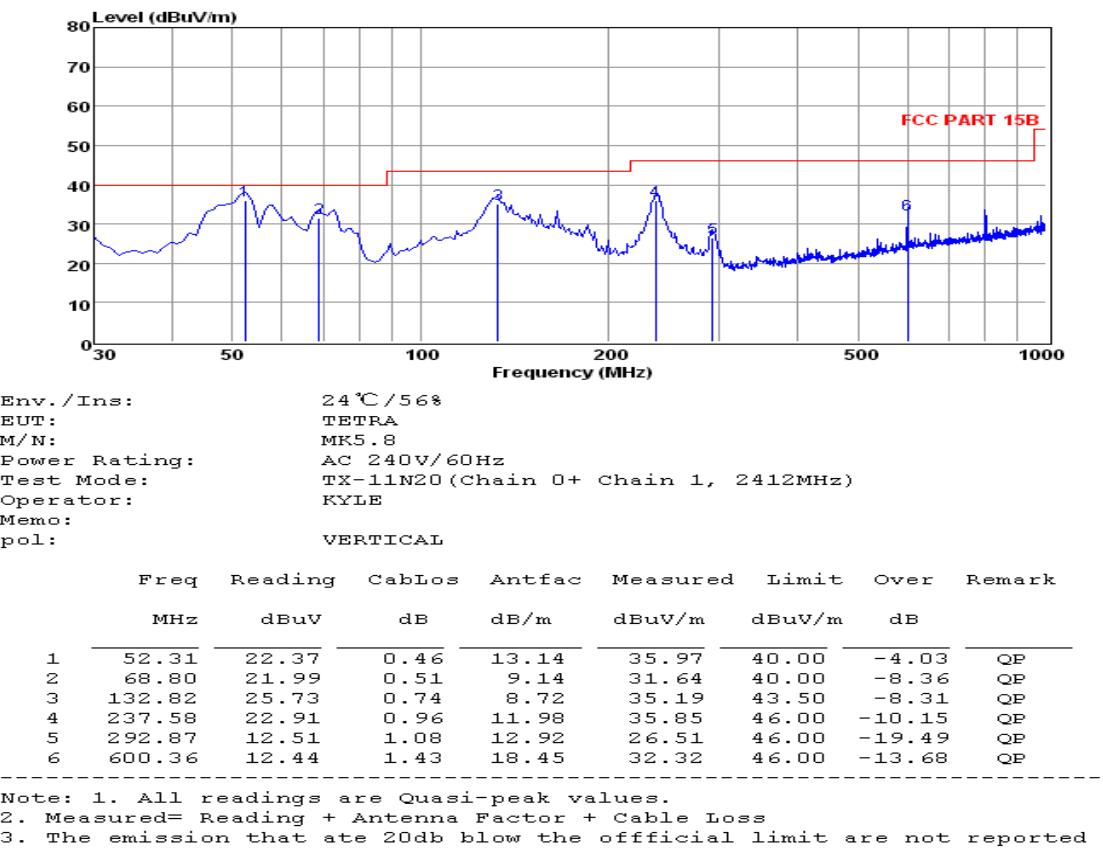
## The Test Result (Input AC 120V/60Hz):





### The Test Result (Input AC 240V/60Hz):





Note:

Pre-scan all mode and recorded the worst case results in this report (802.11b (Low Channel)).  
 Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

## 6.5.8. Results for Radiated Emissions (Above 1GHz)

802.11b / Chain 0

Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.00	46.56	33.06	35.04	3.94	48.04	74	-25.96	Peak	Horizontal
4824.00	36.66	33.06	35.04	3.94	38.14	54	-15.86	Average	Horizontal
4824.00	47.88	33.06	35.04	3.94	49.36	74	-24.64	Peak	Vertical
4824.00	33.64	33.06	35.04	3.94	35.12	54	-18.88	Average	Vertical

Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.00	45.42	33.16	35.15	3.96	47.39	74	-26.61	Peak	Horizontal
4874.00	35.98	33.16	35.15	3.96	37.95	54	-16.05	Average	Horizontal
4874.00	50.17	33.16	35.15	3.96	52.14	74	-21.86	Peak	Vertical
4874.00	40.46	33.16	35.15	3.96	42.43	54	-11.57	Average	Vertical

Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.00	49.61	33.26	35.14	3.98	51.71	74	-22.29	Peak	Horizontal
4924.00	34.98	33.26	35.14	3.98	37.08	54	-16.92	Average	Horizontal
4924.00	51.21	33.26	35.14	3.98	53.31	74	-20.69	Peak	Vertical
4924.00	33.93	33.26	35.14	3.98	36.03	54	-17.97	Average	Vertical

802.11b / Chain 2

Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.00	43.79	33.06	35.04	3.94	45.75	74	-28.25	Peak	Horizontal
4824.00	33.37	33.06	35.04	3.94	35.33	54	-18.67	Average	Horizontal
4824.00	48.92	33.06	35.04	3.94	50.88	74	-23.12	Peak	Vertical
4824.00	31.79	33.06	35.04	3.94	33.75	54	-20.25	Average	Vertical

## Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.00	46.28	33.16	35.15	3.96	48.25	74	-25.75	Peak	Horizontal
4874.00	37.02	33.16	35.15	3.96	38.99	54	-15.01	Average	Horizontal
4874.00	52.94	33.16	35.15	3.96	54.91	74	-19.09	Peak	Vertical
4874.00	40.36	33.16	35.15	3.96	42.33	54	-11.67	Average	Vertical

## Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.00	49.76	33.26	35.14	3.98	51.86	74	-22.14	Peak	Horizontal
4924.00	35.25	33.26	35.14	3.98	37.35	54	-16.65	Average	Horizontal
4924.00	51.62	33.26	35.14	3.98	53.72	74	-20.28	Peak	Vertical
4924.00	34.52	33.26	35.14	3.98	36.62	54	-17.38	Average	Vertical

## 802.11g /Chain 0

## Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.00	47.83	33.06	35.04	3.94	49.79	74	-24.21	Peak	Horizontal
4824.00	32.51	33.06	35.04	3.94	34.47	54	-19.53	Average	Horizontal
4824.00	53.45	33.06	35.04	3.94	55.41	74	-18.59	Peak	Vertical
4824.00	31.85	33.06	35.04	3.94	33.81	54	-20.19	Average	Vertical

## Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.00	51.48	33.16	35.15	3.96	53.45	74	-20.55	Peak	Horizontal
4874.00	34.42	33.16	35.15	3.96	36.39	54	-17.61	Average	Horizontal
4874.00	45.24	33.16	35.15	3.96	47.21	74	-26.79	Peak	Vertical
4874.00	34.15	33.16	35.15	3.96	36.12	54	-17.88	Average	Vertical

## Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.00	51.55	33.26	35.14	3.98	53.65	74	-20.35	Peak	Horizontal
4924.00	32.35	33.26	35.14	3.98	34.45	54	-19.55	Average	Horizontal
4924.00	52.57	33.26	35.14	3.98	54.67	74	-19.33	Peak	Vertical
4924.00	36.62	33.26	35.14	3.98	38.72	54	-15.28	Average	Vertical

## 802.11g /Chain 1

## Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.00	48.99	33.06	35.04	3.94	50.95	74	-23.05	Peak	Horizontal
4824.00	31.39	33.06	35.04	3.94	33.35	54	-20.65	Average	Horizontal
4824.00	52.88	33.06	35.04	3.94	54.84	74	-19.16	Peak	Vertical
4824.00	32.83	33.06	35.04	3.94	34.79	54	-19.21	Average	Vertical

## Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.00	51.46	33.16	35.15	3.96	53.43	74	-20.57	Peak	Horizontal
4874.00	35.40	33.16	35.15	3.96	37.37	54	-16.63	Average	Horizontal
4874.00	47.53	33.16	35.15	3.96	49.50	74	-24.50	Peak	Vertical
4874.00	34.47	33.16	35.15	3.96	36.44	54	-17.56	Average	Vertical

## Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.00	48.63	33.26	35.14	3.98	50.73	74	-23.27	Peak	Horizontal
4924.00	32.21	33.26	35.14	3.98	34.31	54	-19.69	Average	Horizontal
4924.00	52.63	33.26	35.14	3.98	54.73	74	-19.27	Peak	Vertical
4924.00	36.79	33.26	35.14	3.98	38.89	54	-15.11	Average	Vertical

## 802.11n HT20 / Chain 0 + Chain 1

## Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.00	45.52	33.06	35.04	3.94	47.48	74	-26.52	Peak	Horizontal
4824.00	33.72	33.06	35.04	3.94	35.68	54	-18.32	Average	Horizontal
4824.00	46.27	33.06	35.04	3.94	48.23	74	-25.77	Peak	Vertical
4824.00	33.66	33.06	35.04	3.94	35.62	54	-18.38	Average	Vertical

## Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measure d dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.00	51.36	33.16	35.15	3.96	53.33	74	-20.67	Peak	Horizontal
4874.00	30.39	33.16	35.15	3.96	32.36	54	-21.64	Average	Horizontal
4874.00	48.80	33.16	35.15	3.96	50.77	74	-23.23	Peak	Vertical
4874.00	33.00	33.16	35.15	3.96	34.97	54	-19.03	Average	Vertical

## Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.00	42.54	33.26	35.14	3.98	44.64	74	-29.36	Peak	Horizontal
4924.00	34.94	33.26	35.14	3.98	37.04	54	-16.96	Average	Horizontal
4924.00	44.33	33.26	35.14	3.98	46.43	74	-27.57	Peak	Vertical
4924.00	31.41	33.26	35.14	3.98	33.51	54	-20.49	Average	Vertical

802.11n HT20 / Chain 2 + Chain 3

## Channel 1

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4824.00	46.16	33.06	35.04	3.94	48.12	74	-25.88	Peak	Horizontal
4824.00	31.94	33.06	35.04	3.94	33.90	54	-20.10	Average	Horizontal
4824.00	49.00	33.06	35.04	3.94	50.96	74	-23.04	Peak	Vertical
4824.00	33.31	33.06	35.04	3.94	35.27	54	-18.73	Average	Vertical

## Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measure d dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.00	48.09	33.16	35.15	3.96	50.06	74	-23.94	Peak	Horizontal
4874.00	31.62	33.16	35.15	3.96	33.59	54	-20.41	Average	Horizontal
4874.00	49.11	33.16	35.15	3.96	51.08	74	-22.92	Peak	Vertical
4874.00	32.43	33.16	35.15	3.96	34.40	54	-19.60	Average	Vertical

## Channel 11

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4924.00	43.02	33.26	35.14	3.98	45.12	74	-28.88	Peak	Horizontal
4924.00	36.31	33.26	35.14	3.98	38.41	54	-15.59	Average	Horizontal
4924.00	46.32	33.26	35.14	3.98	48.42	74	-25.58	Peak	Vertical
4924.00	33.25	33.26	35.14	3.98	35.35	54	-18.65	Average	Vertical

## 802.11n HT40 / Chain 0 + Chain 1

## Channel 3

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4844.00	44.63	33.06	35.04	3.94	46.59	74	-27.41	Peak	Horizontal
4844.00	33.53	33.06	35.04	3.94	35.49	54	-18.51	Average	Horizontal
4844.00	46.61	33.06	35.04	3.94	48.57	74	-25.43	Peak	Vertical
4844.00	35.42	33.06	35.04	3.94	37.38	54	-16.62	Average	Vertical

## Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.00	48.42	33.16	35.15	3.96	50.39	74	-23.61	Peak	Horizontal
4874.00	31.25	33.16	35.15	3.96	33.22	54	-20.78	Average	Horizontal
4874.00	48.78	33.16	35.15	3.96	50.75	74	-23.25	Peak	Vertical
4874.00	29.70	33.16	35.15	3.96	31.67	54	-22.33	Average	Vertical

## Channel 9

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4904.00	40.94	33.26	35.14	3.98	43.04	74	-30.96	Peak	Horizontal
4904.00	36.04	33.26	35.14	3.98	38.14	54	-15.86	Average	Horizontal
4904.00	45.99	33.26	35.14	3.98	48.09	74	-25.91	Peak	Vertical
4904.00	34.33	33.26	35.14	3.98	36.43	54	-17.57	Average	Vertical

## 802.11n HT40 / Chain 2 + Chain 3

## Channel 3

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4844.00	44.66	33.06	35.04	3.94	46.62	74	-27.38	Peak	Horizontal
4844.00	31.71	33.06	35.04	3.94	33.67	54	-20.33	Average	Horizontal
4844.00	47.73	33.06	35.04	3.94	49.69	74	-24.31	Peak	Vertical
4844.00	35.76	33.06	35.04	3.94	37.72	54	-16.28	Average	Vertical

## Channel 6

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4874.00	49.28	33.16	35.15	3.96	51.25	74	-22.75	Peak	Horizontal
4874.00	31.14	33.16	35.15	3.96	33.11	54	-20.89	Average	Horizontal
4874.00	48.11	33.16	35.15	3.96	50.08	74	-23.92	Peak	Vertical
4874.00	30.13	33.16	35.15	3.96	32.10	54	-21.90	Average	Vertical

## Channel 9

Freq. MHz	Reading dBuv	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4904.00	40.60	33.26	35.14	3.98	42.70	74	-31.30	Peak	Horizontal
4904.00	34.30	33.26	35.14	3.98	36.40	54	-17.60	Average	Horizontal
4904.00	45.00	33.26	35.14	3.98	47.10	74	-26.90	Peak	Vertical
4904.00	31.46	33.26	35.14	3.98	33.56	54	-20.44	Average	Vertical

**Notes:**

1. Measuring frequencies from 9k~10th harmonic or 26.5GHz (which is less), No emission found between lowest internal used/generated frequency to 30MHz.
2. Radiated emissions measured in frequency range from 9k~10th harmonic or 40GHz (which is less) were made with an instrument using Peak detector mode.
3. 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.

## 6.5.9. Results of Band Edges Test (Radiated)

802.11b / Chain 0

Tx-2412

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2390.00	55.24	32.89	35.16	3.51	56.48	74	-17.52	Peak	Horizontal
2390.00	33.45	32.89	35.16	3.51	34.69	54	-19.31	Average	Horizontal
2400.00	56.59	32.92	35.16	3.54	57.89	74	-16.11	Peak	Horizontal
2400.00	43.66	32.92	35.16	3.54	44.96	54	-9.04	Average	Horizontal
2390.00	52.36	32.89	35.16	3.51	53.60	74	-20.40	Peak	Vertical
2390.00	35.52	32.89	35.16	3.51	36.76	54	-17.24	Average	Vertical
2400.00	60.36	32.92	35.16	3.54	61.66	74	-12.34	Peak	Vertical
2400.00	34.08	32.92	35.16	3.54	35.38	54	-18.62	Average	Vertical

Tx-2462

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2483.50	53.52	33.06	35.18	3.60	55.00	74	-19.00	Peak	Horizontal
2483.50	38.85	33.06	35.18	3.60	40.33	54	-13.67	Average	Horizontal
2483.50	55.61	33.06	35.18	3.60	57.09	74	-16.91	Peak	Vertical
2483.50	38.81	33.06	35.18	3.60	40.29	54	-13.71	Average	Vertical

802.11b / Chain 1

Tx-2412

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2390.00	57.10	32.89	35.16	3.51	58.34	74	-15.66	Peak	Horizontal
2390.00	30.12	32.89	35.16	3.51	31.36	54	-22.64	Average	Horizontal
2400.00	54.20	32.92	35.16	3.54	55.50	74	-18.50	Peak	Horizontal
2400.00	42.24	32.92	35.16	3.54	43.54	54	-10.46	Average	Horizontal
2390.00	54.33	32.89	35.16	3.51	55.57	74	-18.43	Peak	Vertical
2390.00	33.22	32.89	35.16	3.51	34.46	54	-19.54	Average	Vertical
2400.00	58.38	32.92	35.16	3.54	59.68	74	-14.32	Peak	Vertical
2400.00	35.28	32.92	35.16	3.54	36.58	54	-17.42	Average	Vertical

## Tx-2462

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2483.50	53.58	33.06	35.18	3.60	55.06	74	-18.94	Peak	Horizontal
2483.50	38.93	33.06	35.18	3.60	40.41	54	-13.59	Average	Horizontal
2483.50	55.92	33.06	35.18	3.60	57.40	74	-16.60	Peak	Vertical
2483.50	38.40	33.06	35.18	3.60	39.88	54	-14.12	Average	Vertical

802.11g / Chain 0

## Tx-2412

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2390.00	52.45	32.89	35.16	3.51	53.69	74	-20.31	Peak	Horizontal
2390.00	42.12	32.89	35.16	3.51	43.36	54	-10.64	Average	Horizontal
2400.00	55.87	32.92	35.16	3.54	57.17	74	-16.83	Peak	Horizontal
2400.00	39.63	32.92	35.16	3.54	40.93	54	-13.07	Average	Horizontal
2390.00	48.02	32.89	35.16	3.51	49.26	74	-24.74	Peak	Vertical
2390.00	39.93	32.89	35.16	3.51	41.17	54	-12.83	Average	Vertical
2400.00	56.95	32.92	35.16	3.54	58.25	74	-15.75	Peak	Vertical
2400.00	33.31	32.92	35.16	3.54	34.61	54	-19.39	Average	Vertical

## Tx-2462

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2483.50	57.34	33.06	35.18	3.60	58.82	74	-15.18	Peak	Horizontal
2483.50	38.94	33.06	35.18	3.60	40.42	54	-13.58	Average	Horizontal
2483.50	55.14	33.06	35.18	3.60	56.62	74	-17.38	Peak	Vertical
2483.50	37.93	33.06	35.18	3.60	39.41	54	-14.59	Average	Vertical

802.11g / Chain 1

## Tx-2412

Freq. MHz	Readin g Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2390.00	54.20	32.89	35.16	3.51	55.44	74	-18.56	Peak	Horizontal
2390.00	44.60	32.89	35.16	3.51	45.84	54	-8.16	Average	Horizontal
2400.00	56.30	32.92	35.16	3.54	57.60	74	-16.40	Peak	Horizontal
2400.00	39.55	32.92	35.16	3.54	40.85	54	-13.15	Average	Horizontal
2390.00	48.14	32.89	35.16	3.51	49.38	74	-24.62	Peak	Vertical
2390.00	41.37	32.89	35.16	3.51	42.61	54	-11.39	Average	Vertical
2400.00	57.84	32.92	35.16	3.54	59.14	74	-14.86	Peak	Vertical
2400.00	34.19	32.92	35.16	3.54	35.49	54	-18.51	Average	Vertical

## Tx-2462

Freq. MHz	Readin g Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2483.50	58.02	33.06	35.18	3.60	59.50	74	-14.50	Peak	Horizontal
2483.50	38.77	33.06	35.18	3.60	40.25	54	-13.75	Average	Horizontal
2483.50	54.46	33.06	35.18	3.60	55.94	74	-18.06	Peak	Vertical
2483.50	38.33	33.06	35.18	3.60	39.81	54	-14.19	Average	Vertical

802.11n(HT20) / Chain 0 + Chain 1

## Tx-2412

Freq. MHz	Readin g Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2390.00	50.05	32.89	35.16	3.51	51.29	74	-22.71	Peak	Horizontal
2390.00	42.42	32.89	35.16	3.51	43.66	54	-10.34	Average	Horizontal
2400.00	54.80	32.92	35.16	3.54	56.10	74	-17.90	Peak	Horizontal
2400.00	38.26	32.92	35.16	3.54	39.56	54	-14.44	Average	Horizontal
2390.00	57.19	32.89	35.16	3.51	58.43	74	-15.57	Peak	Vertical
2390.00	38.24	32.89	35.16	3.51	39.48	54	-14.52	Average	Vertical
2400.00	56.02	32.92	35.16	3.54	57.32	74	-16.68	Peak	Vertical
2400.00	36.04	32.92	35.16	3.54	37.34	54	-16.66	Average	Vertical

## Tx-2462

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2483.50	55.25	33.06	35.18	3.60	56.73	74	-17.27	Peak	Horizontal
2483.50	36.50	33.06	35.18	3.60	37.98	54	-16.02	Average	Horizontal
2483.50	54.85	33.06	35.18	3.60	56.33	74	-17.67	Peak	Vertical
2483.50	37.77	33.06	35.18	3.60	39.25	54	-14.75	Average	Vertical

802.11n(HT20) / Chain 2 + Chain 3

## Tx-2412

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2390.00	50.40	32.89	35.16	3.51	51.64	74	-22.36	Peak	Horizontal
2390.00	39.98	32.89	35.16	3.51	41.22	54	-12.78	Average	Horizontal
2400.00	57.68	32.92	35.16	3.54	58.98	74	-15.02	Peak	Horizontal
2400.00	38.12	32.92	35.16	3.54	39.42	54	-14.58	Average	Horizontal
2390.00	56.75	32.89	35.16	3.51	57.99	74	-16.01	Peak	Vertical
2390.00	38.23	32.89	35.16	3.51	39.47	54	-14.53	Average	Vertical
2400.00	54.92	32.92	35.16	3.54	56.22	74	-17.78	Peak	Vertical
2400.00	35.23	32.92	35.16	3.54	36.53	54	-17.47	Average	Vertical

## Tx-2462

Freq. MHz	Reading Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2483.50	54.00	33.06	35.18	3.60	55.48	74	-18.52	Peak	Horizontal
2483.50	36.44	33.06	35.18	3.60	37.92	54	-16.08	Average	Horizontal
2483.50	54.56	33.06	35.18	3.60	56.04	74	-17.96	Peak	Vertical
2483.50	38.31	33.06	35.18	3.60	39.79	54	-14.21	Average	Vertical

802.11n(HT40) / Chain 0 + Chain 1

## Tx-2422

Freq. MHz	Readin g Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2390.00	49.38	32.89	35.16	3.51	50.62	74	-23.38	Peak	Horizontal
2390.00	41.12	32.89	35.16	3.51	42.36	54	-11.64	Average	Horizontal
2400.00	56.25	32.92	35.16	3.54	57.55	74	-16.45	Peak	Horizontal
2400.00	41.57	32.92	35.16	3.54	42.87	54	-11.13	Average	Horizontal
2390.00	55.77	32.89	35.16	3.51	57.01	74	-16.99	Peak	Vertical
2390.00	38.36	32.89	35.16	3.51	39.60	54	-14.40	Average	Vertical
2400.00	56.78	32.92	35.16	3.54	58.08	74	-15.92	Peak	Vertical
2400.00	34.55	32.92	35.16	3.54	35.85	54	-18.15	Average	Vertical

## Tx-2452

Freq. MHz	Readin g Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2483.50	53.87	33.06	35.18	3.60	55.35	74	-18.65	Peak	Horizontal
2483.50	36.61	33.06	35.18	3.60	38.09	54	-15.91	Average	Horizontal
2483.50	54.39	33.06	35.18	3.60	55.87	74	-18.13	Peak	Vertical
2483.50	38.04	33.06	35.18	3.60	39.52	54	-14.48	Average	Vertical

802.11n(HT40) / Chain 2 + Chain 3

## Tx-2422

Freq. MHz	Readin g Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2390.00	51.64	32.89	35.16	3.51	52.88	74	-21.12	Peak	Horizontal
2390.00	42.36	32.89	35.16	3.51	43.60	54	-10.40	Average	Horizontal
2400.00	57.75	32.92	35.16	3.54	59.05	74	-14.95	Peak	Horizontal
2400.00	40.08	32.92	35.16	3.54	41.38	54	-12.62	Average	Horizontal
2390.00	57.53	32.89	35.16	3.51	58.77	74	-15.23	Peak	Vertical
2390.00	37.74	32.89	35.16	3.51	38.98	54	-15.02	Average	Vertical
2400.00	57.82	32.92	35.16	3.54	59.12	74	-14.88	Peak	Vertical
2400.00	35.67	32.92	35.16	3.54	36.97	54	-17.03	Average	Vertical

## Tx-2452

Freq. MHz	Readin g Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
2483.50	53.87	33.06	35.18	3.60	55.35	74	-18.65	Peak	Horizontal
2483.50	36.15	33.06	35.18	3.60	37.63	54	-16.37	Average	Horizontal
2483.50	54.70	33.06	35.18	3.60	56.18	74	-17.82	Peak	Vertical
2483.50	38.21	33.06	35.18	3.60	39.69	54	-14.31	Average	Vertical

## 6.6. Conducted Spurious Emissions and Band Edges Test

### 6.6.1. Standard Applicable

According to §15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

### 6.6.2. Measuring Instruments and Setting

Please refer to section 6 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Detector	Peak
Attenuation	Auto
RB / VB (Emission in restricted band)	100KHz/300KHz
RB / VB (Emission in non-restricted band)	100KHz/300KHz

### 6.6.3. Test Procedures

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz

The spectrum from 9kHz to 40GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

### 6.6.4. Test Setup Layout

This test setup layout is the same as that shown in section 5.4.4.

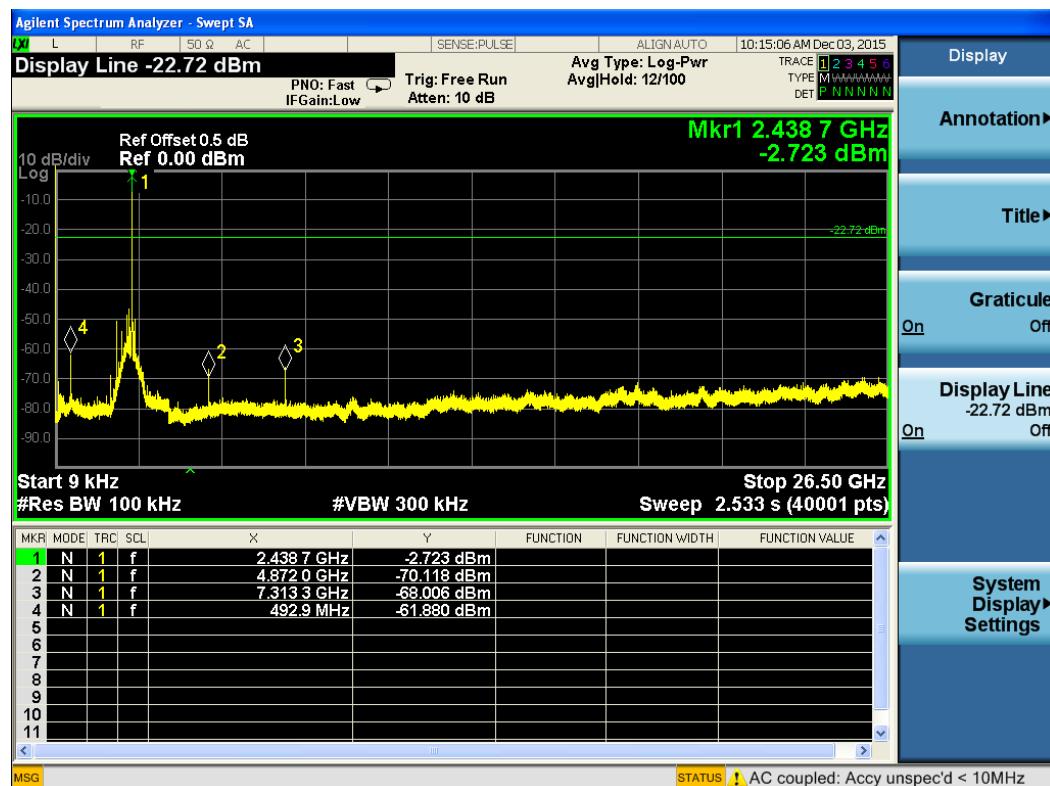
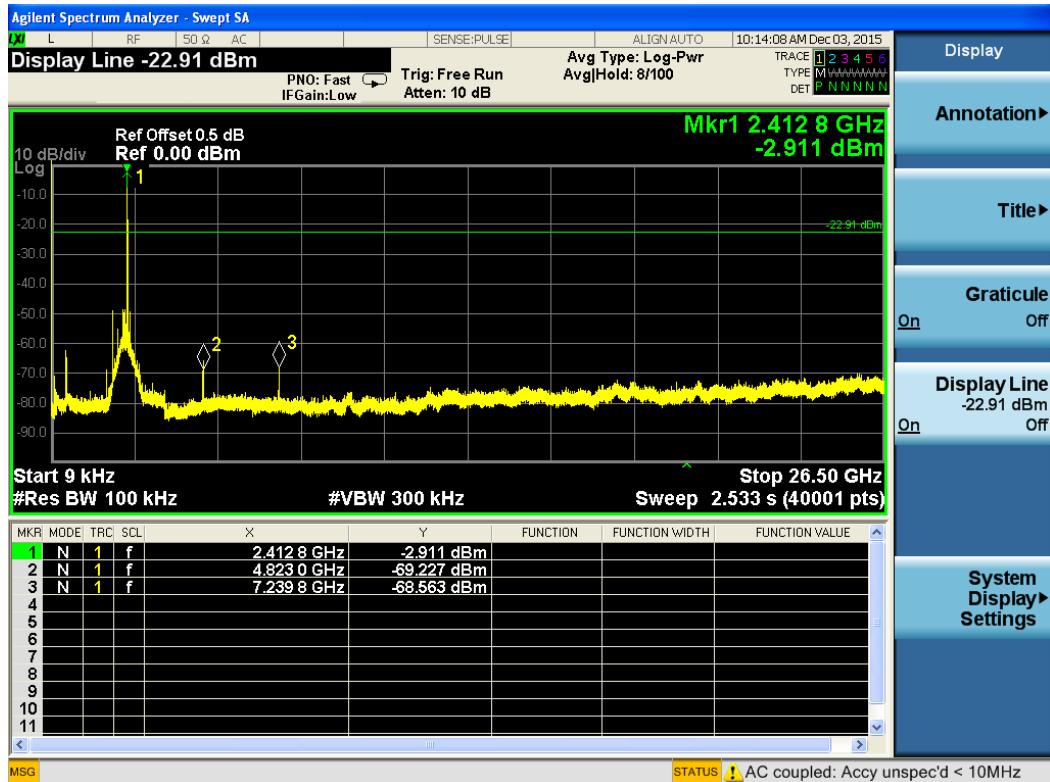
### 6.6.5. EUT Operation during Test

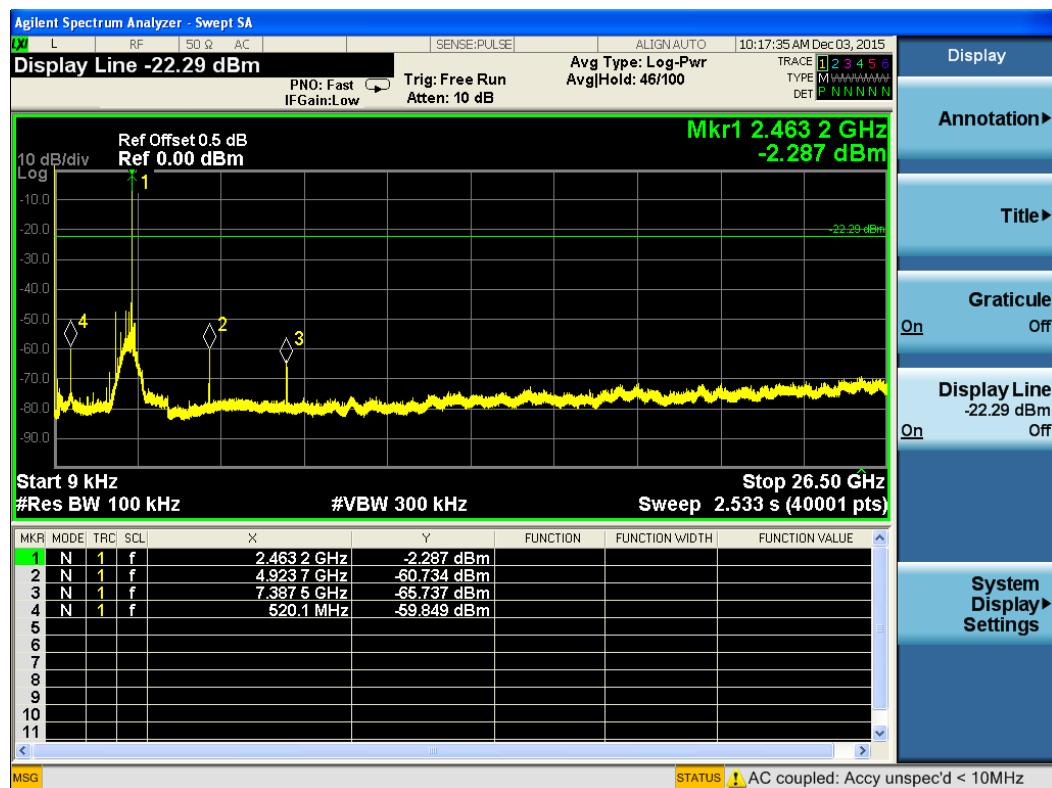
The EUT was programmed to be in continuously transmitting mode.

### 6.6.6. Test Results of Conducted Spurious Emissions

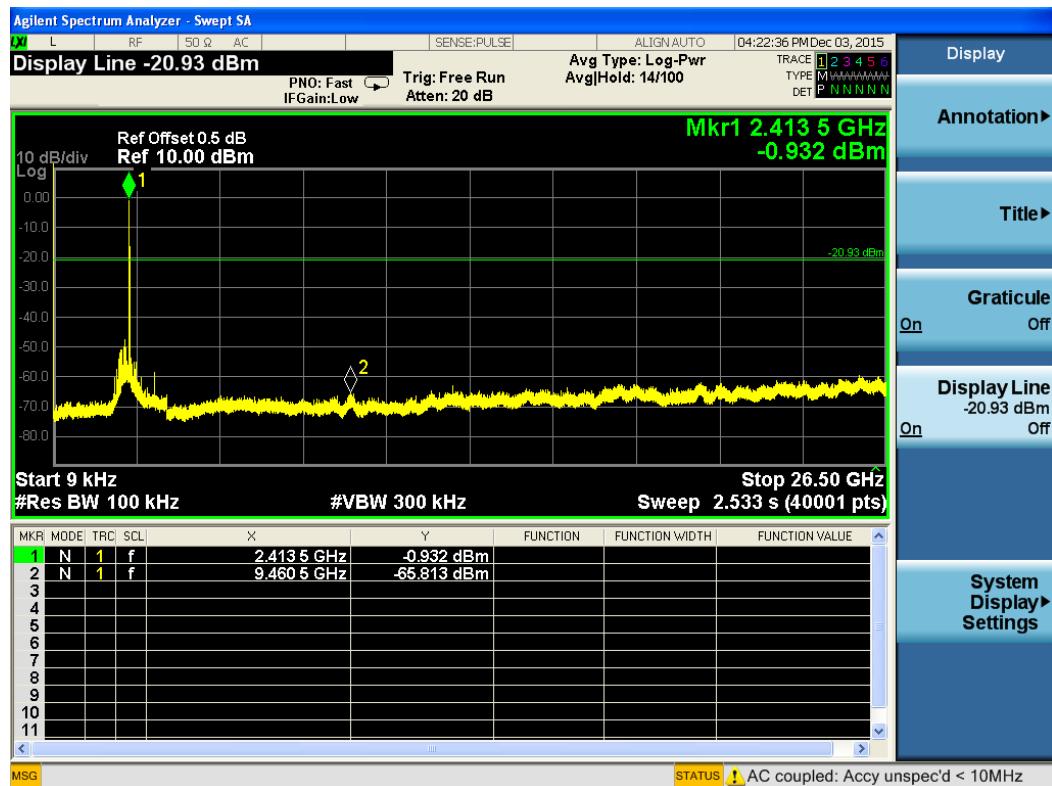
Emissions that fall into restricted frequency bands was blow the emission limits in Section 15.209.

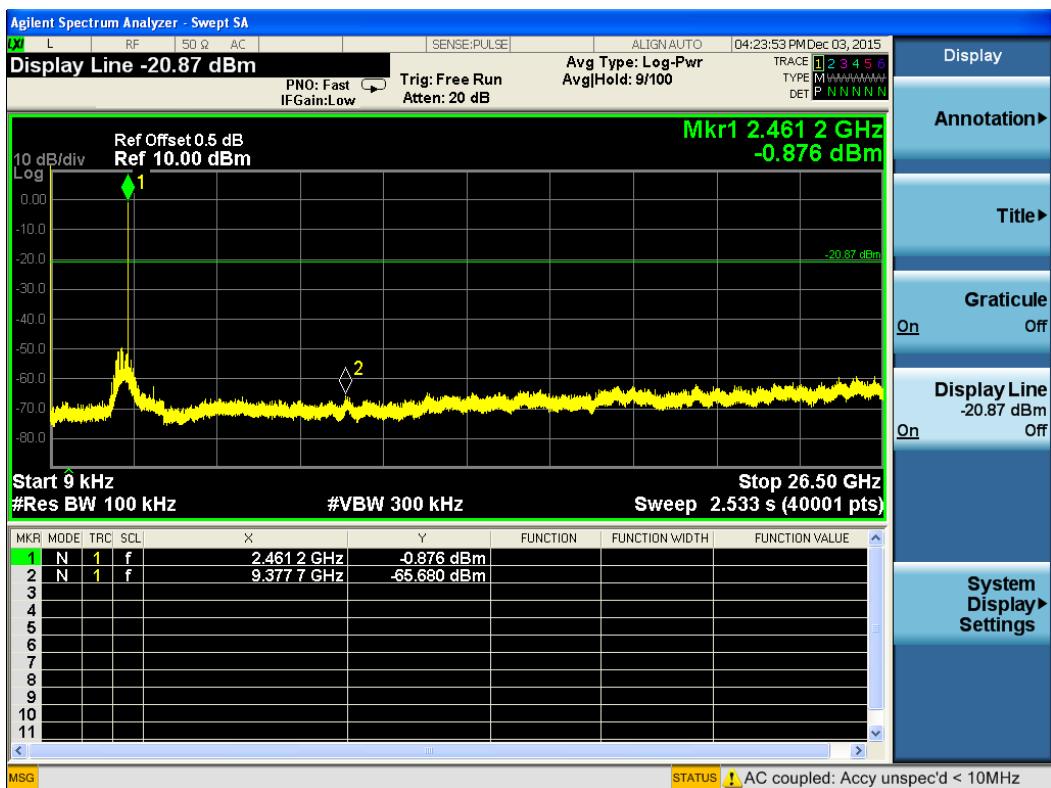
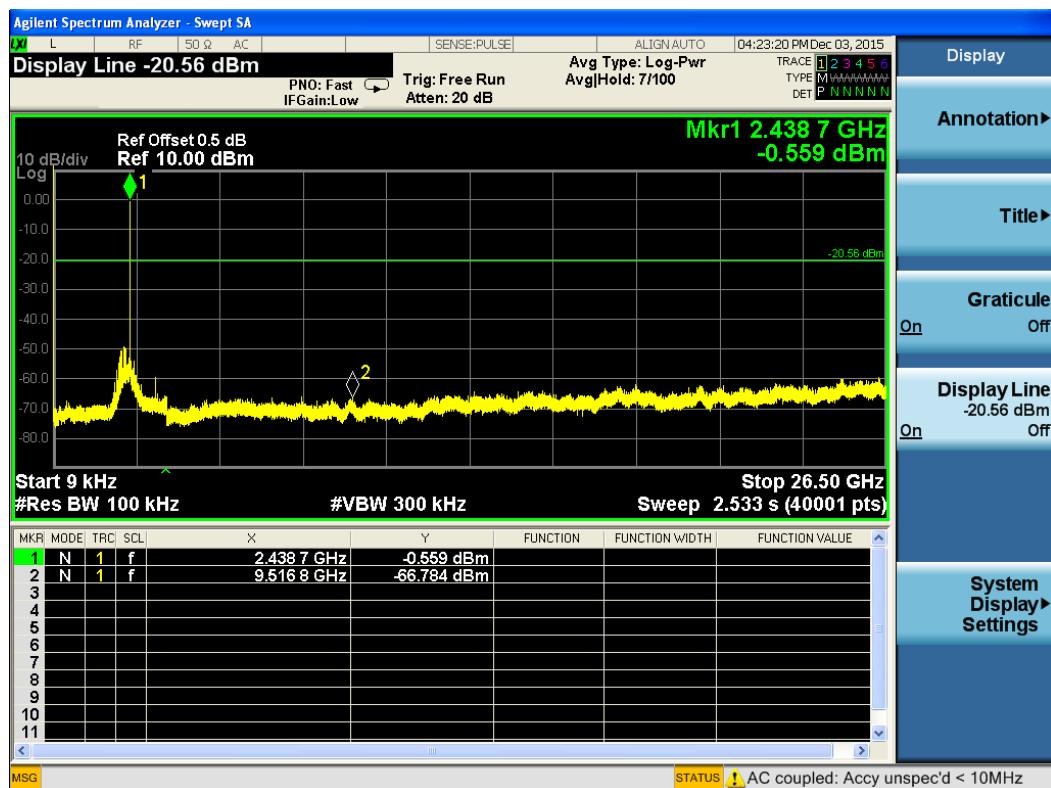
#### 802.11b / Chain 0



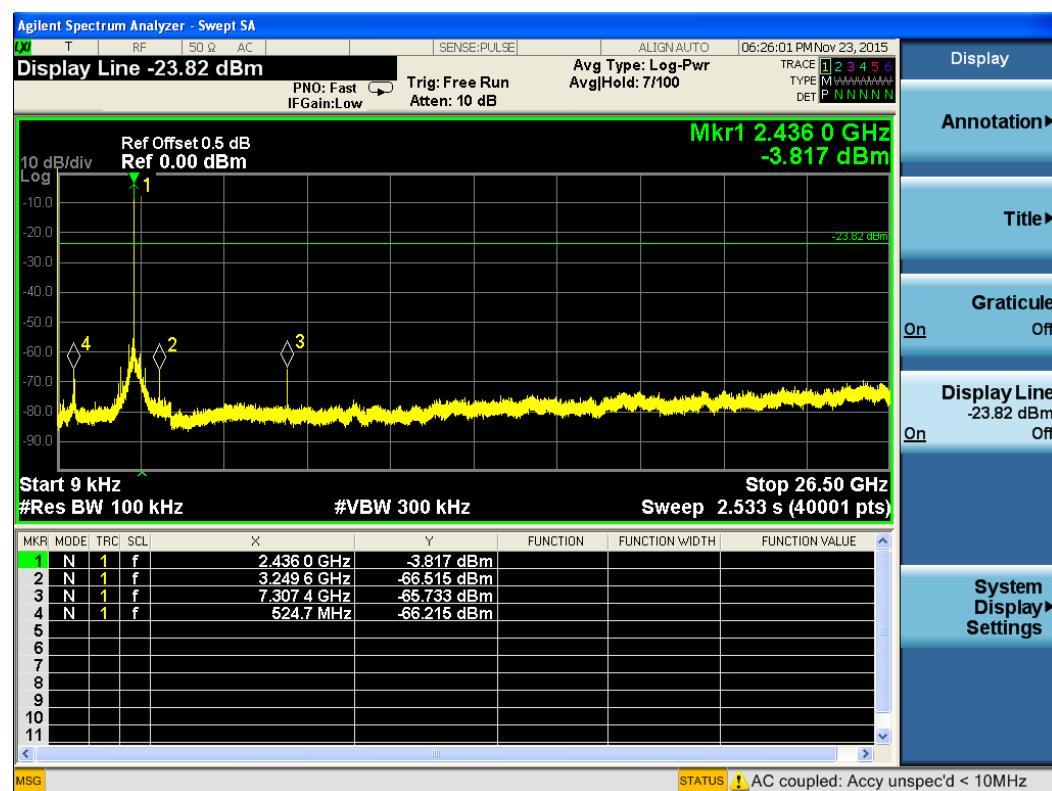
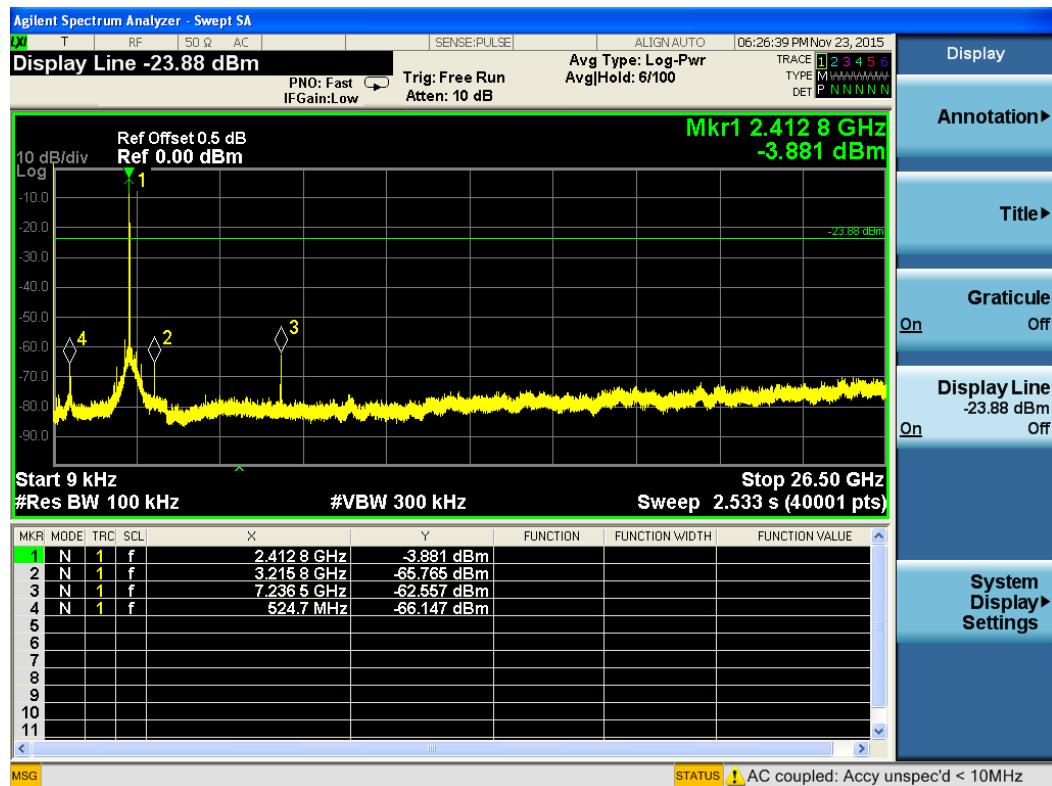


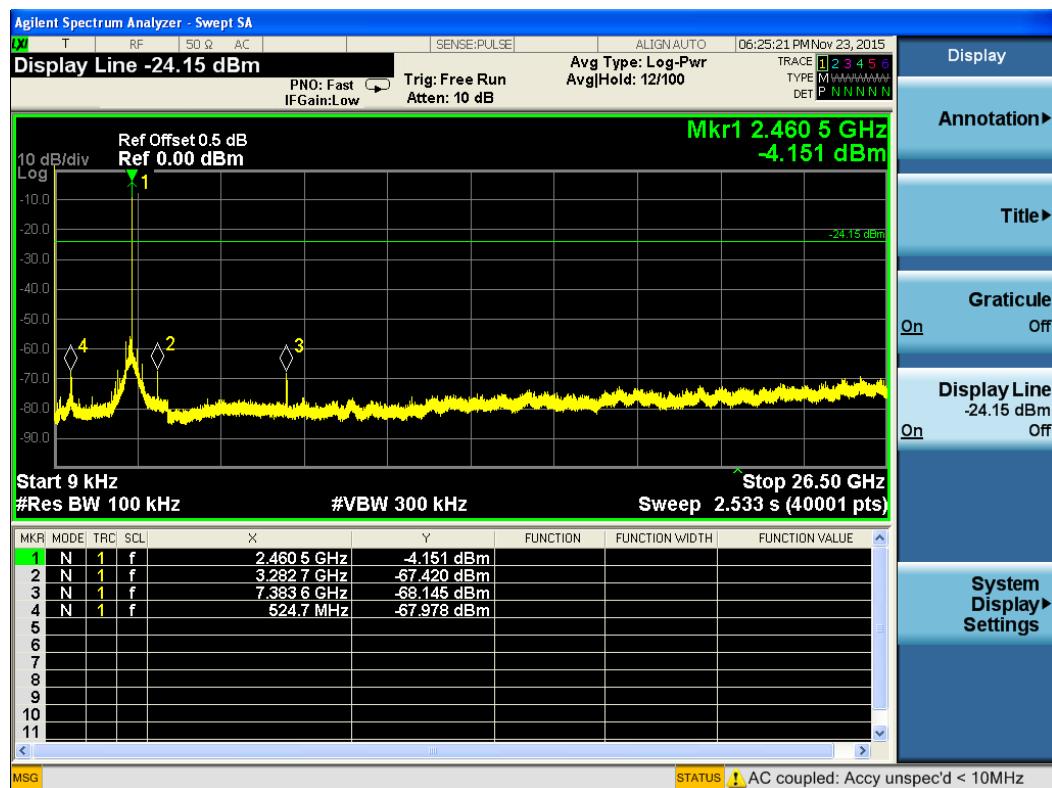
## 802.11b / Chain 1



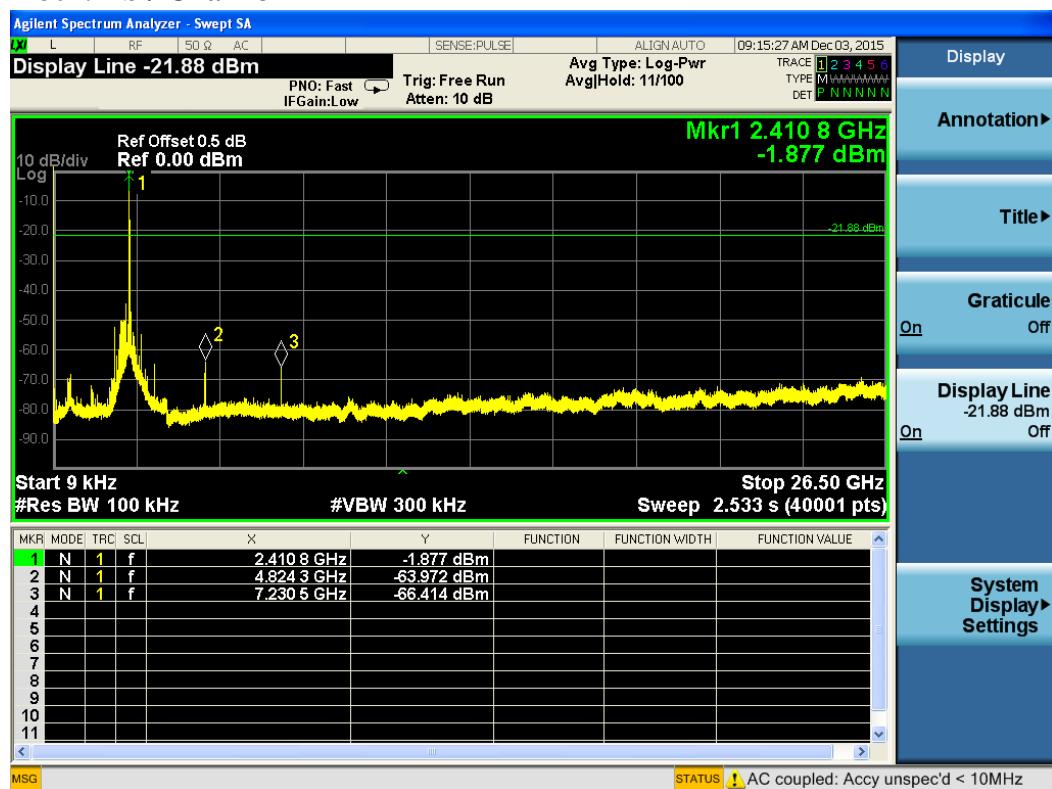


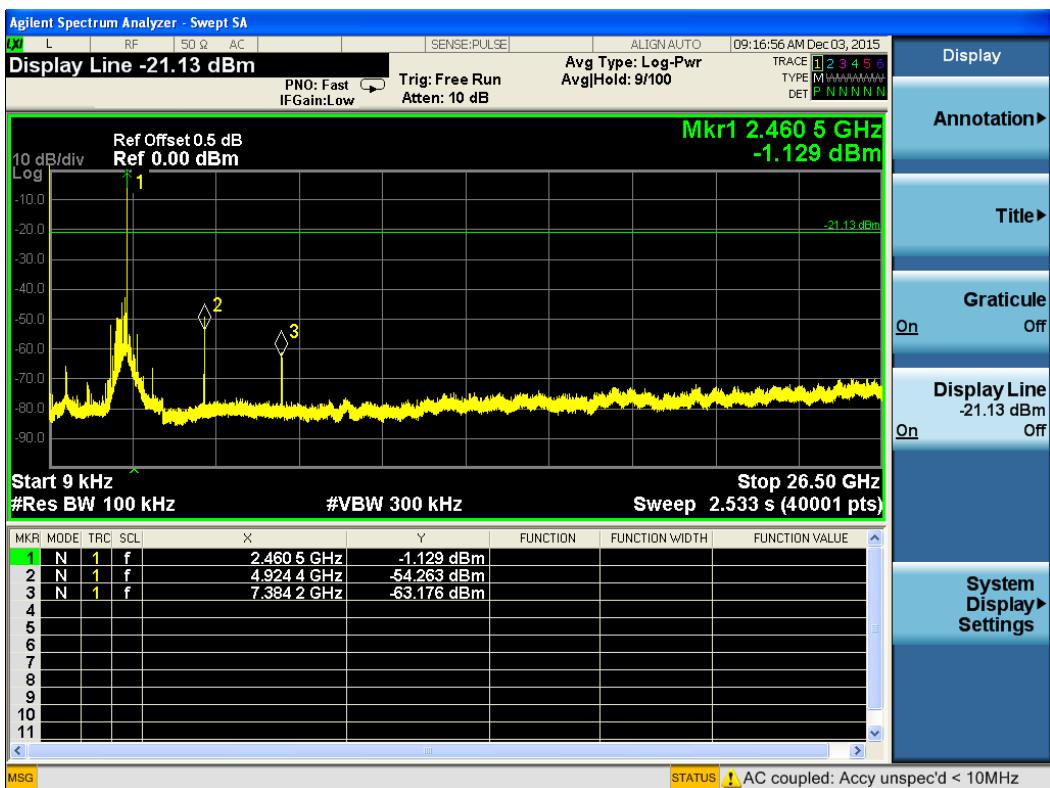
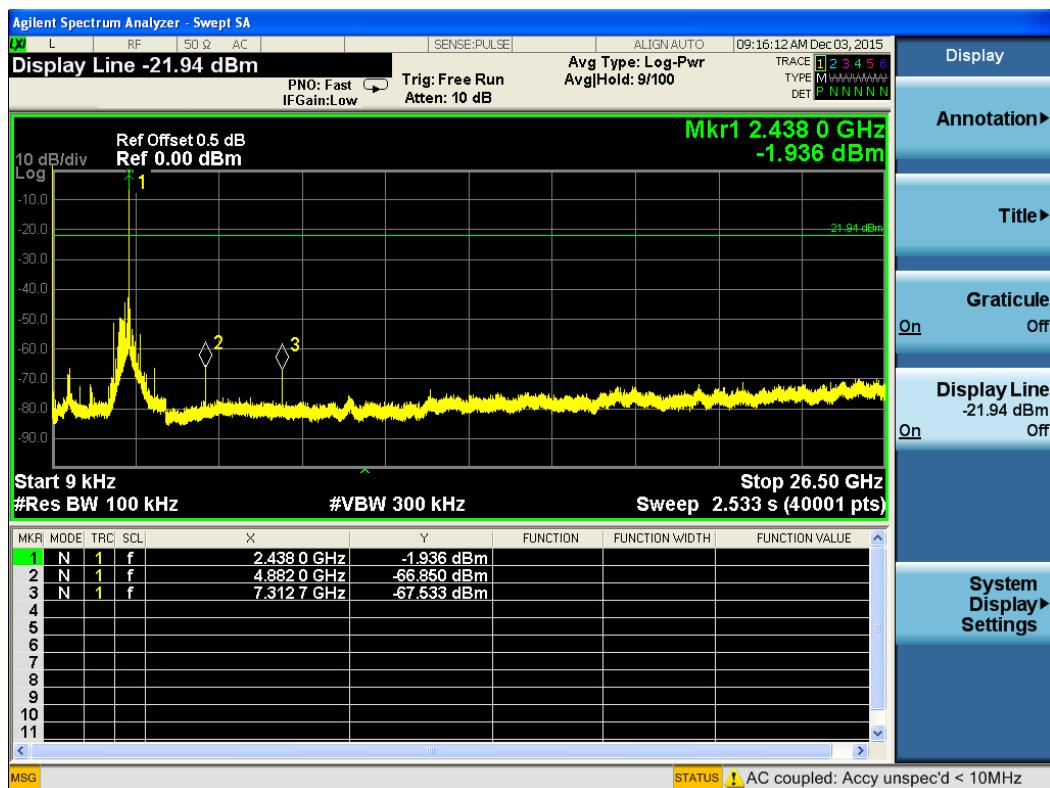
## 802.11b / Chain 2



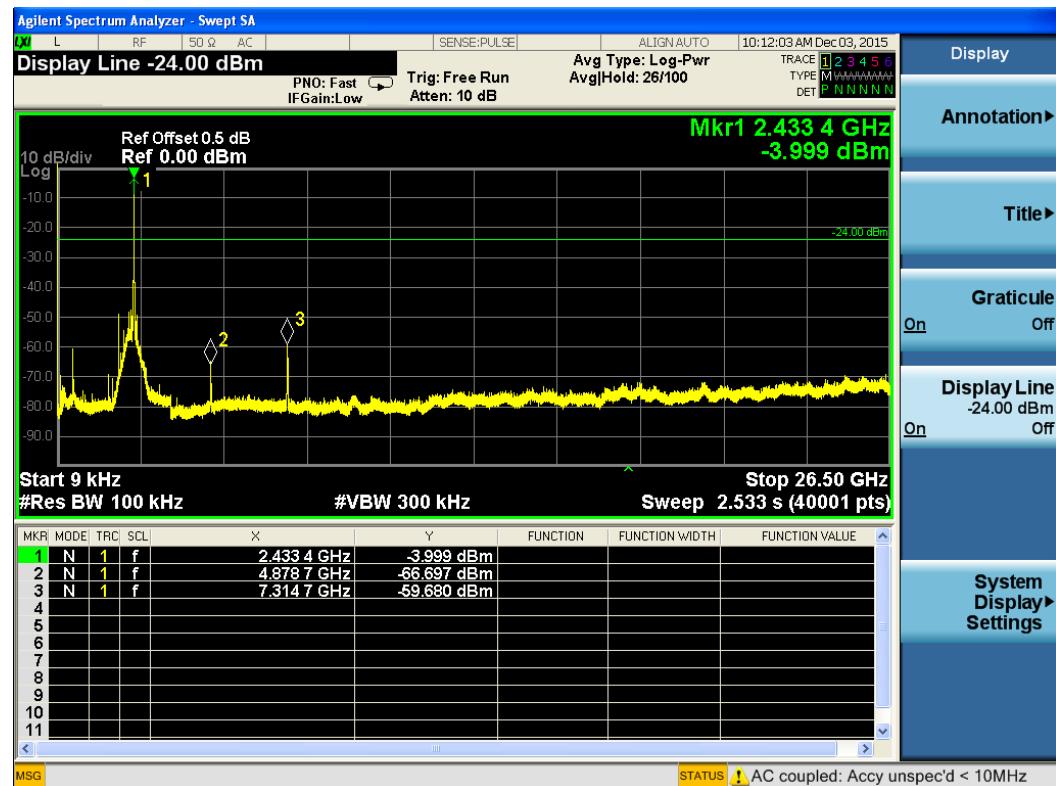
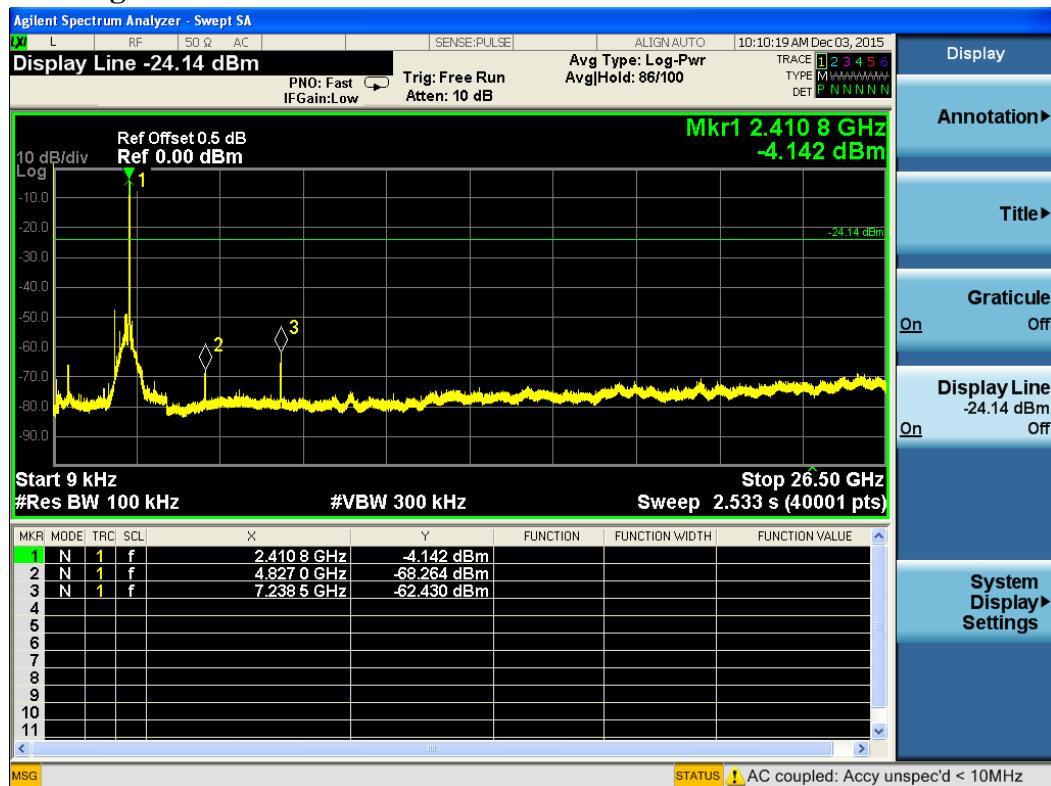


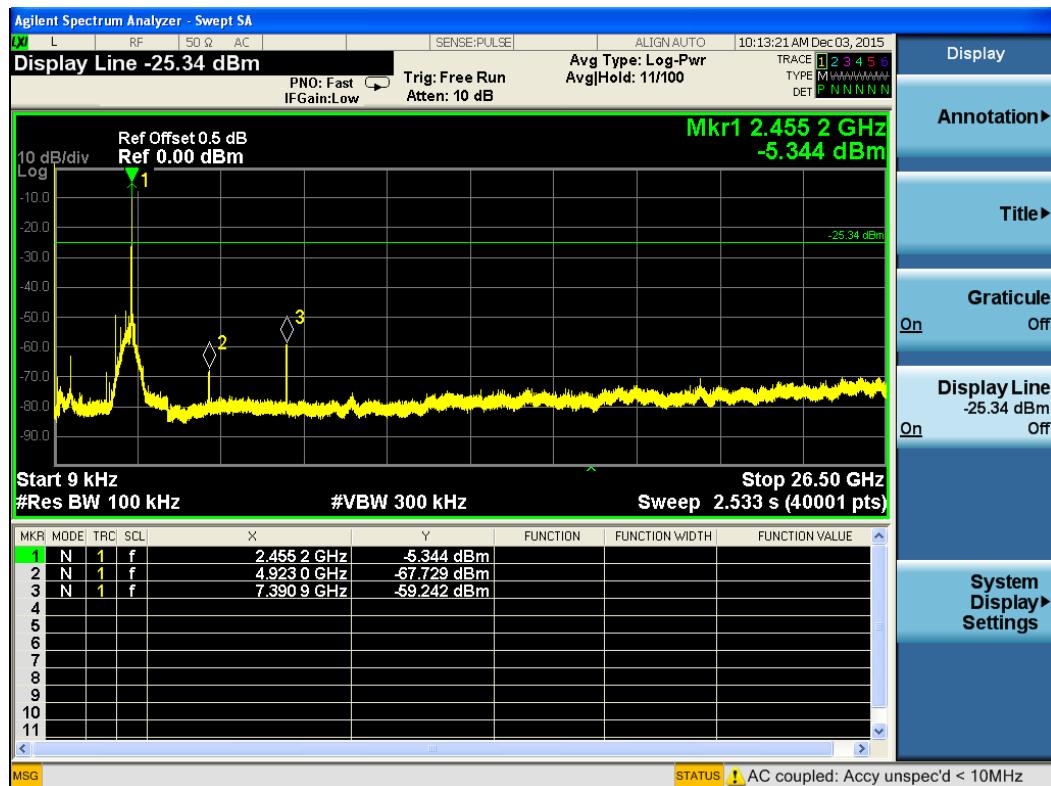
### 802.11b / Chain 3



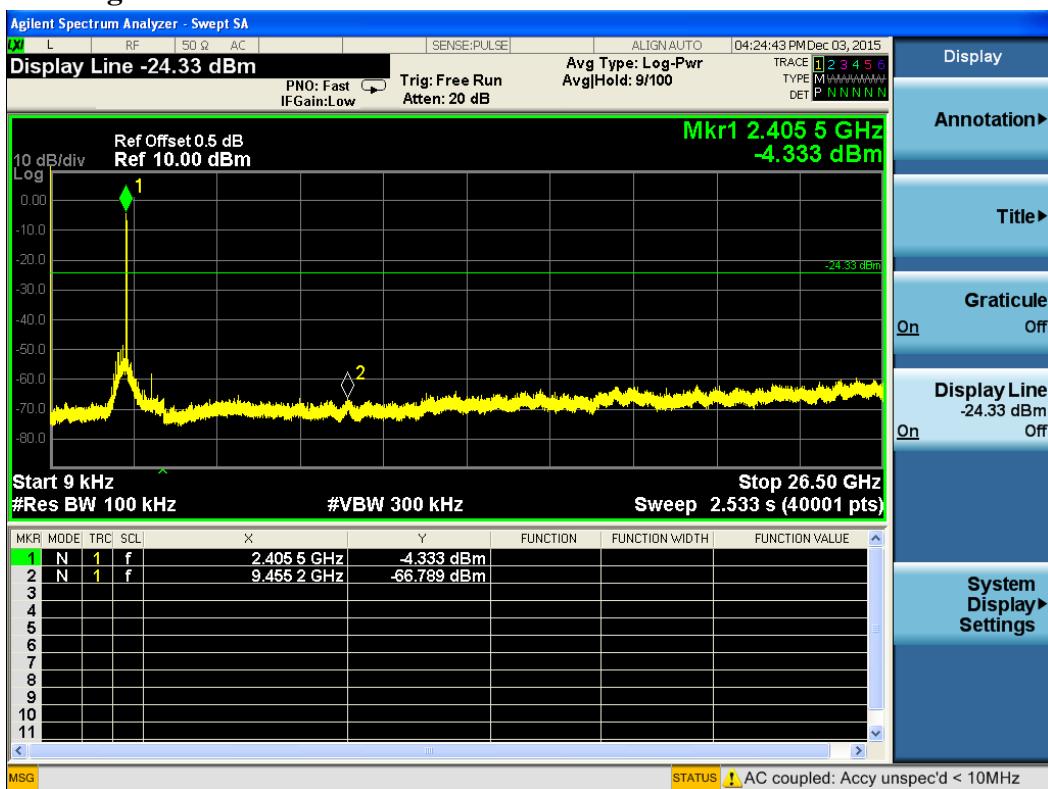


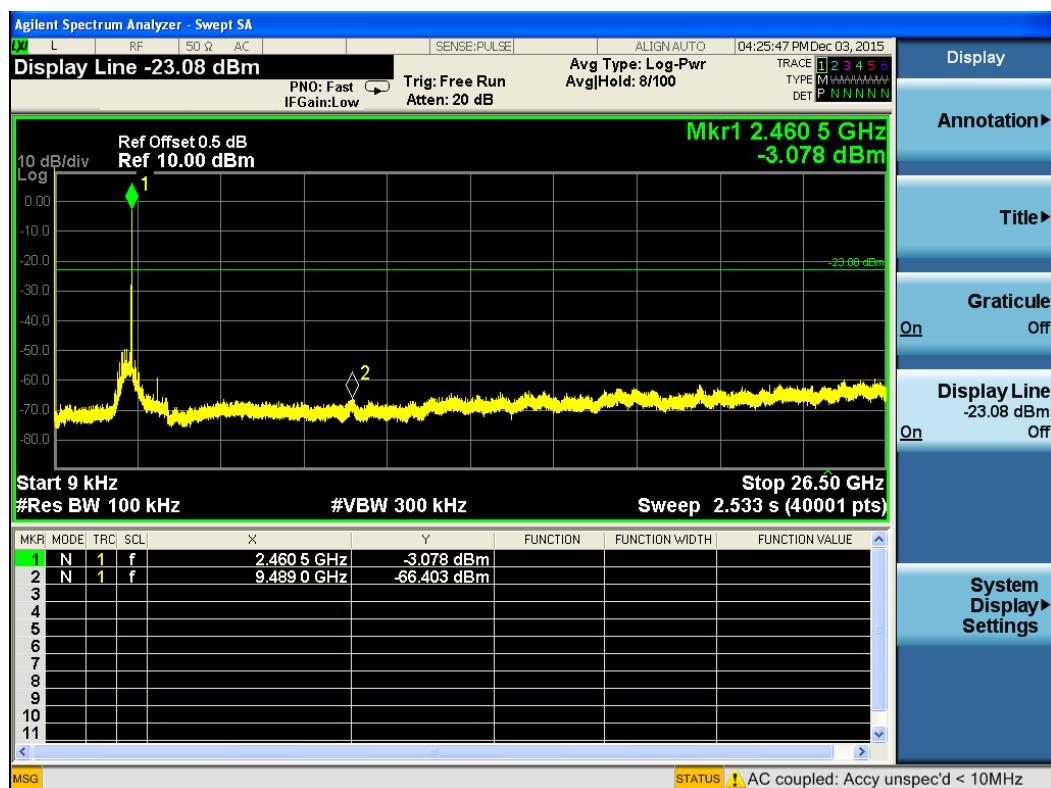
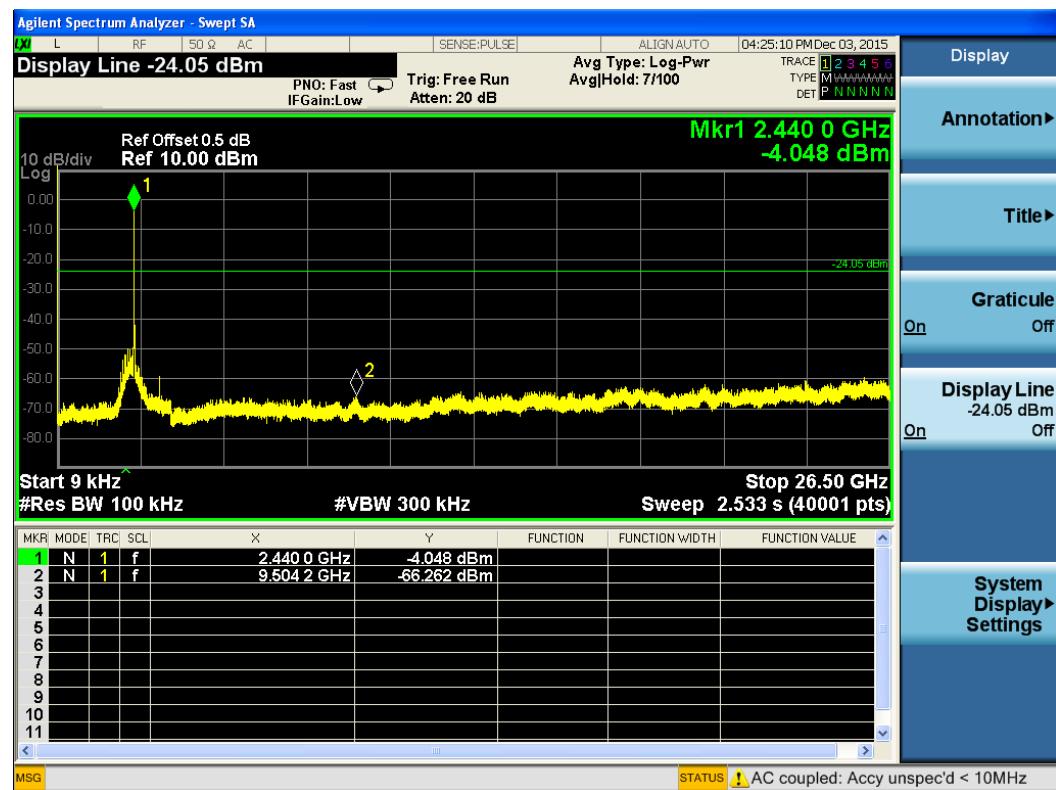
## 802.11g / Chain 0



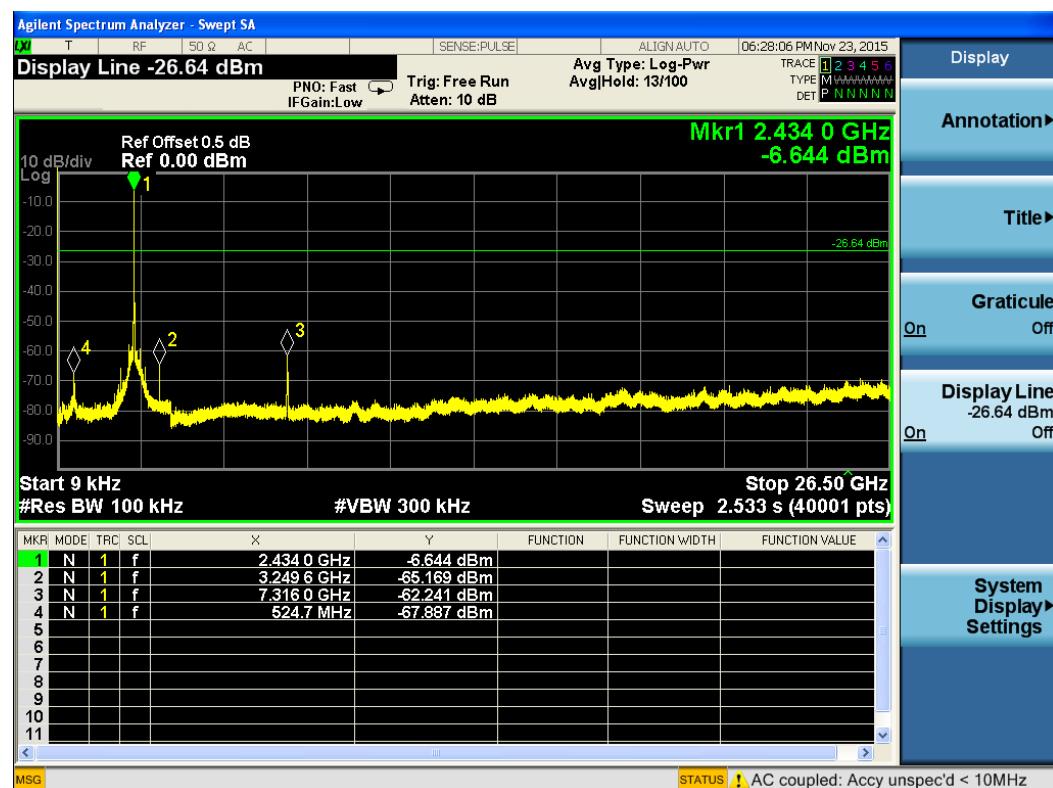
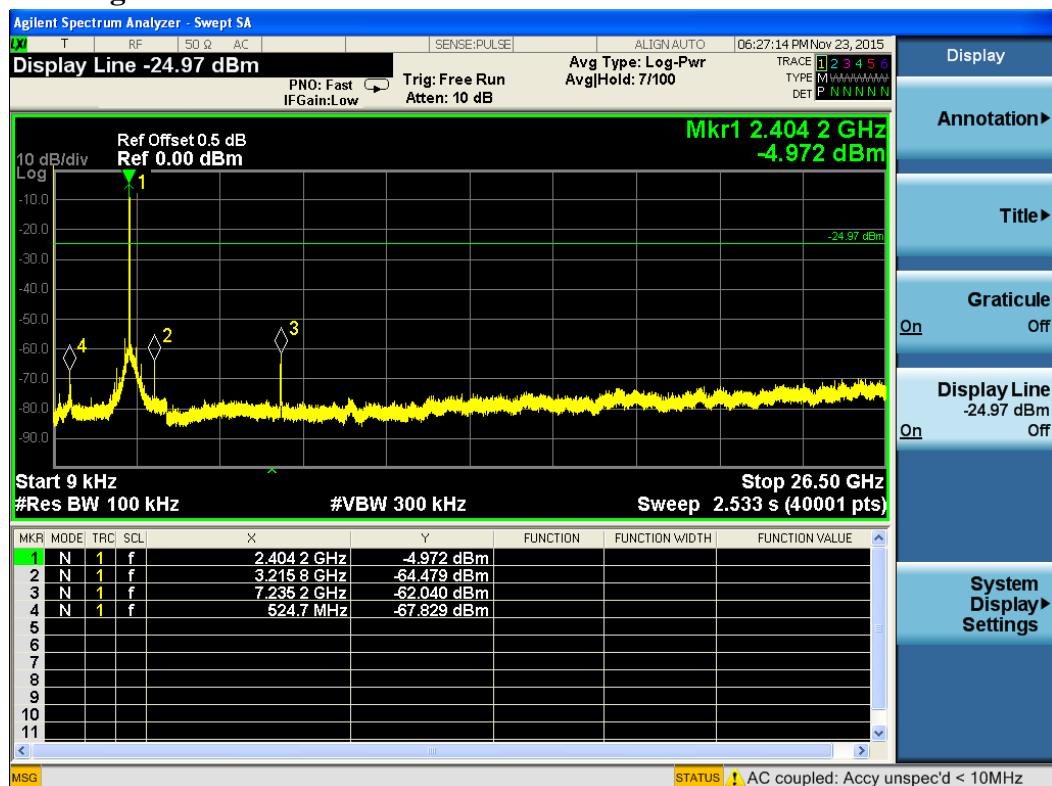


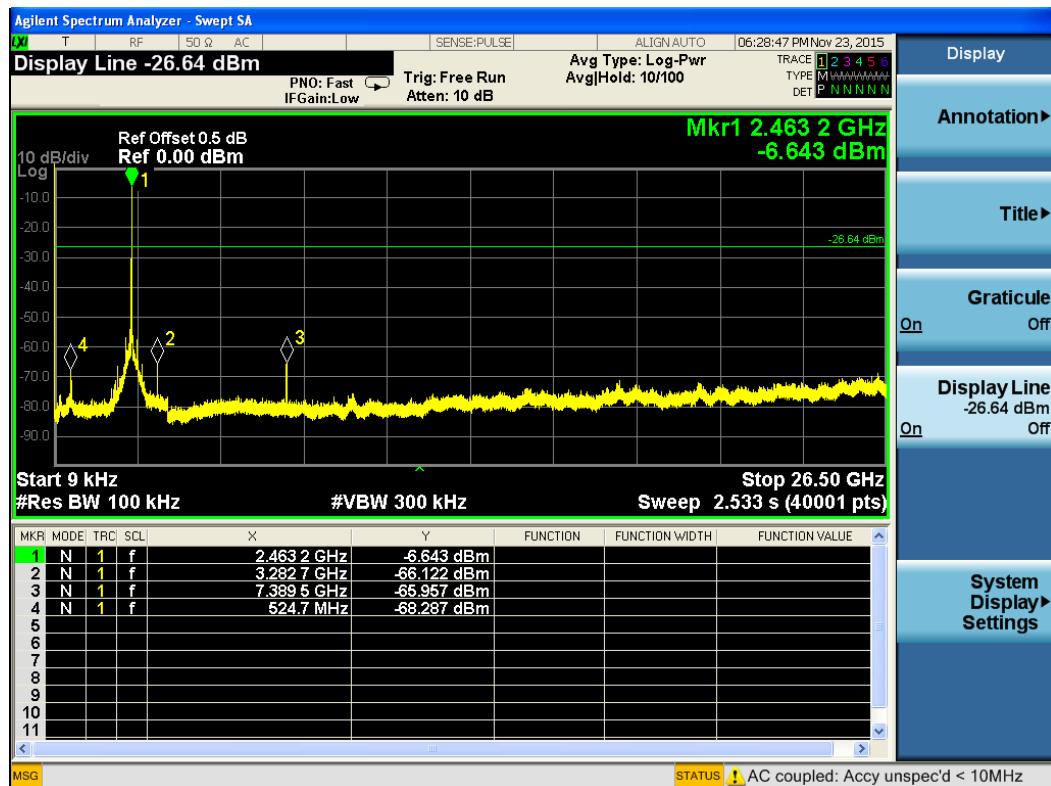
## 802.11g / Chain 1



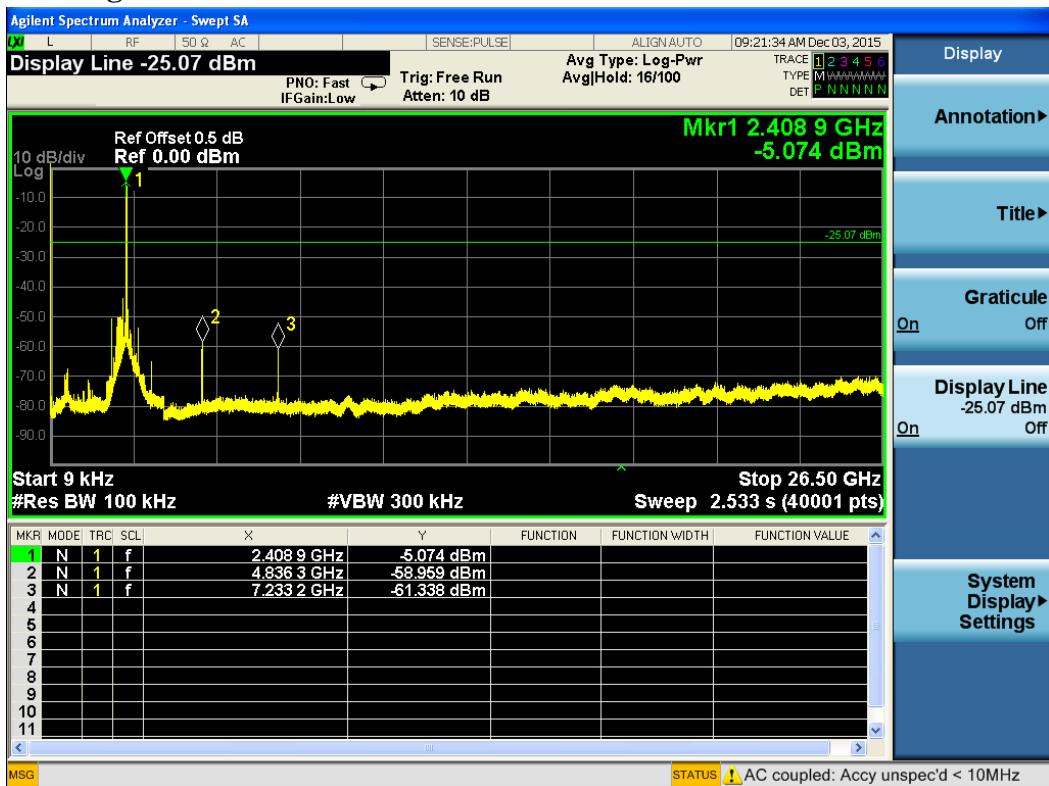


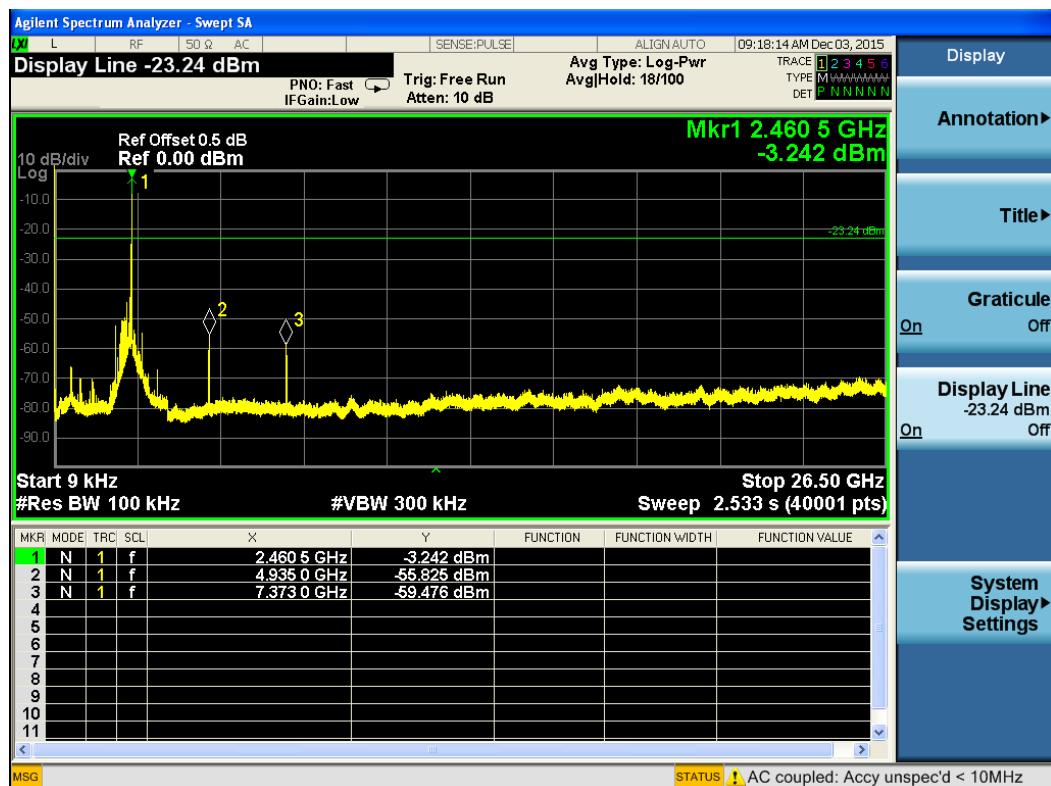
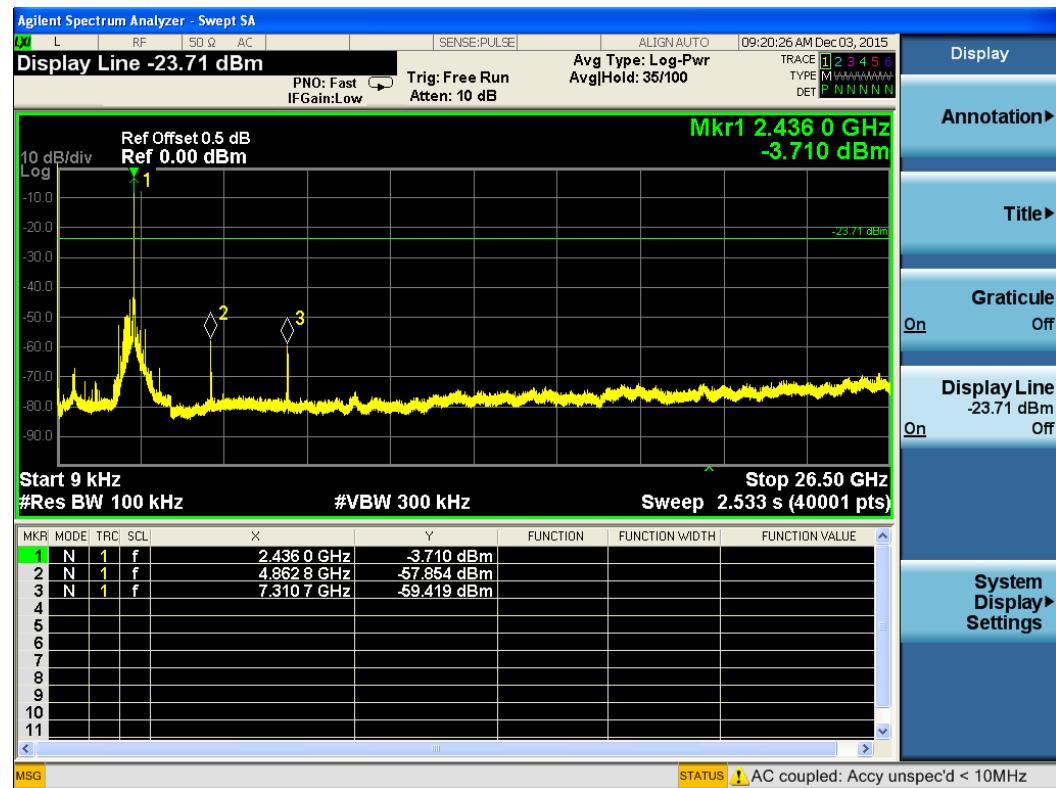
## 802.11g / Chain 2



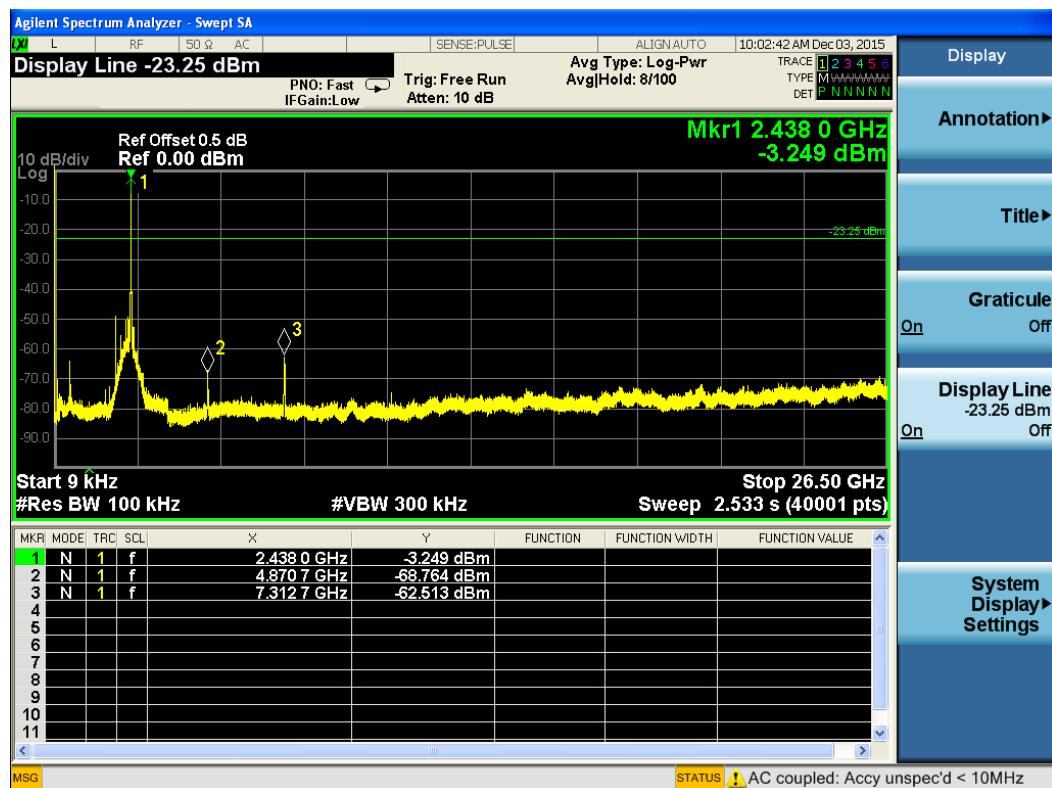
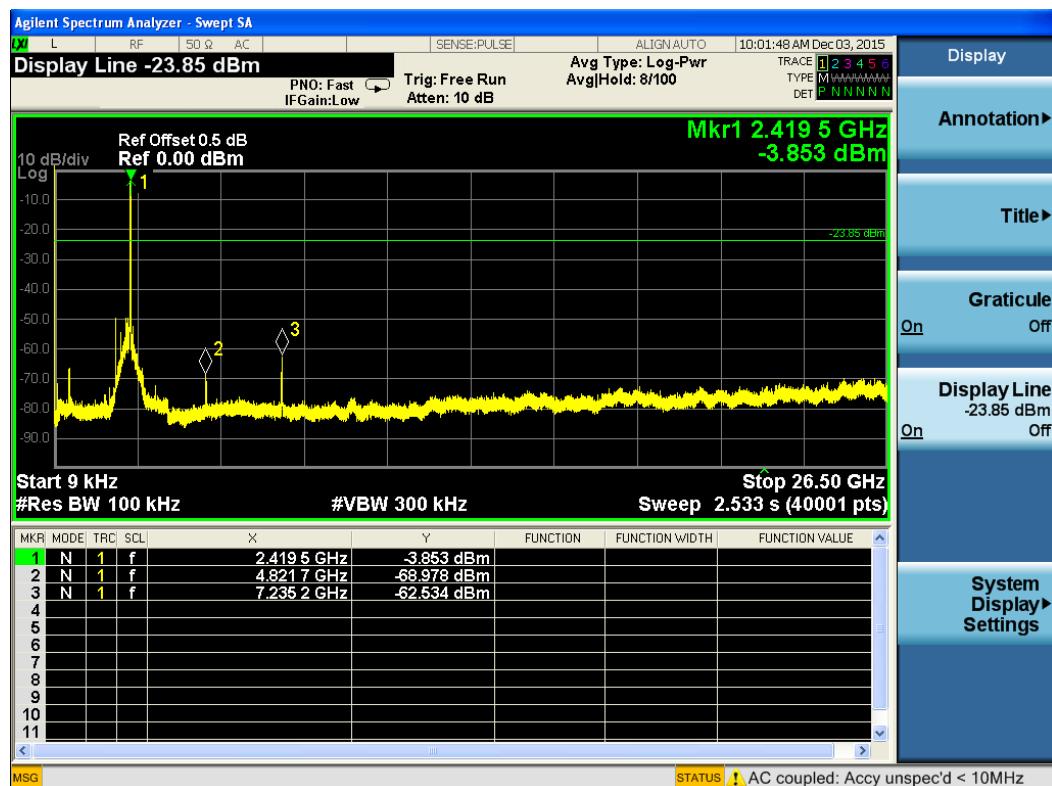


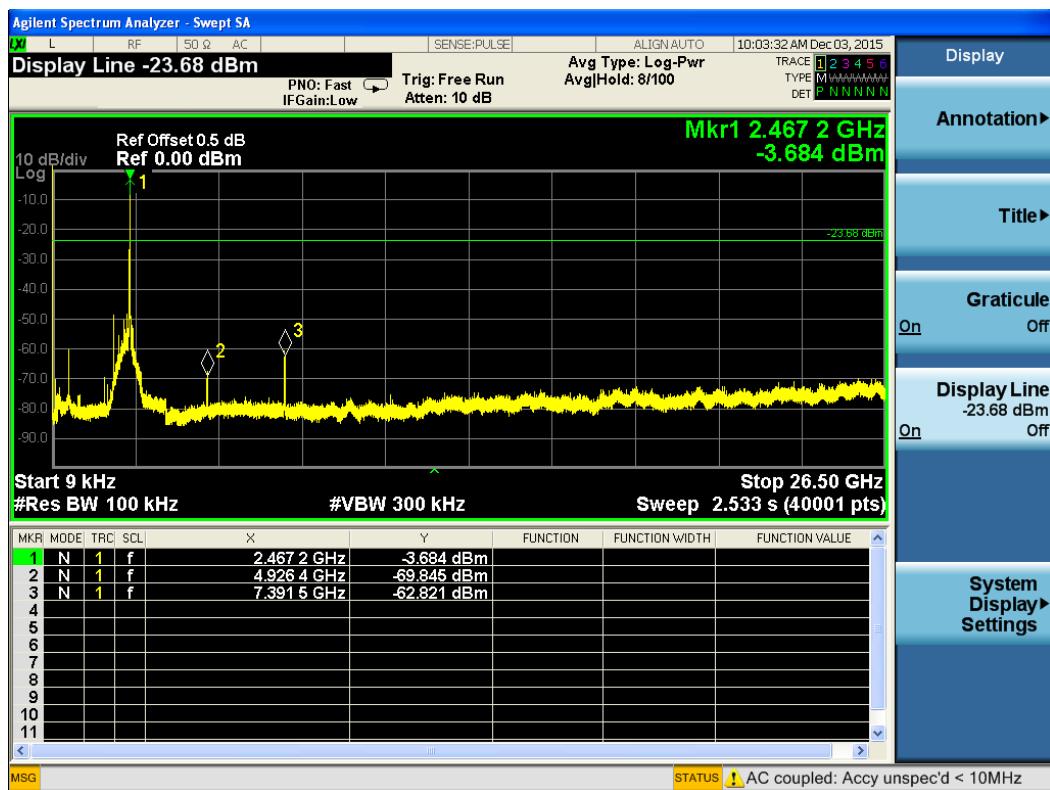
### 802.11g / Chain 3



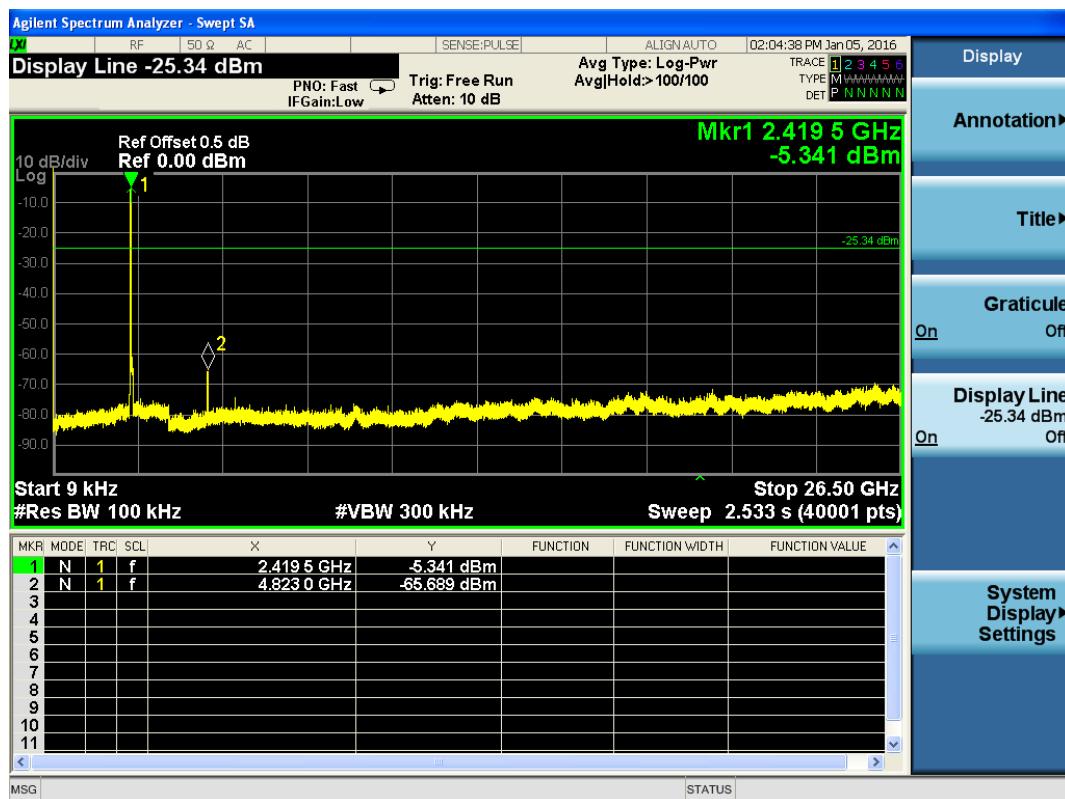


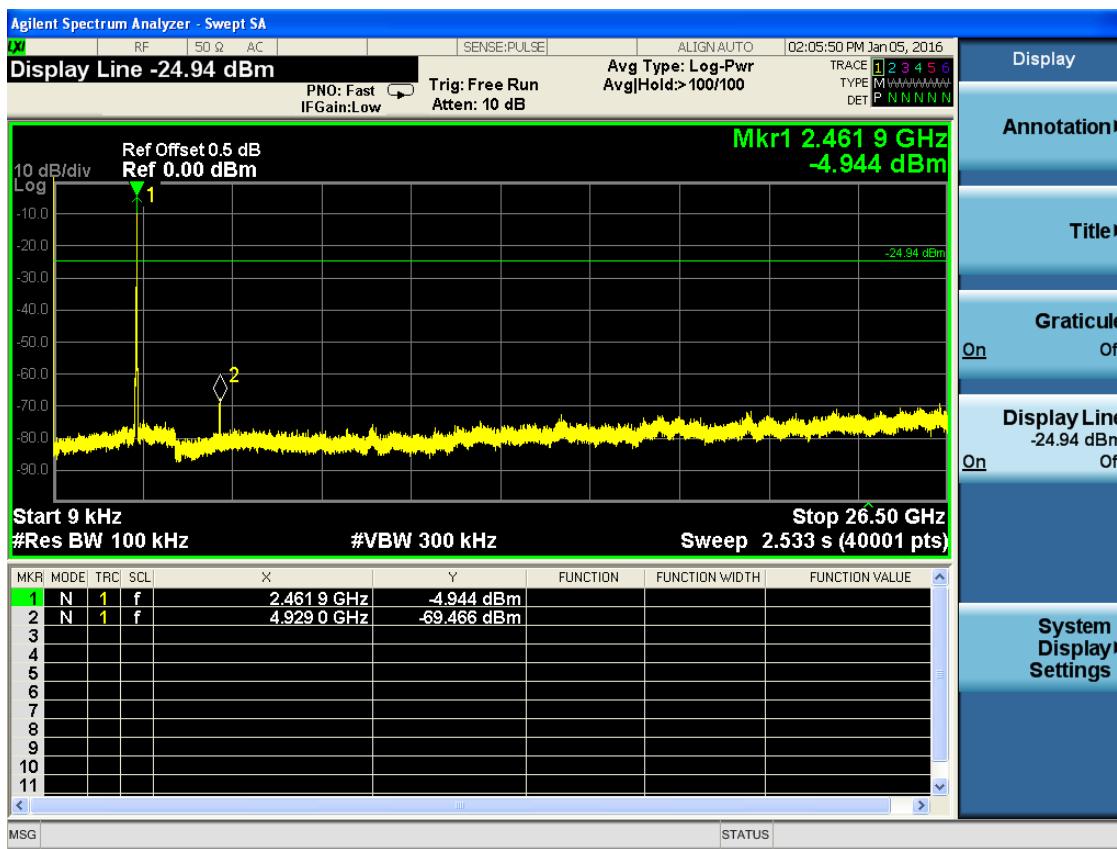
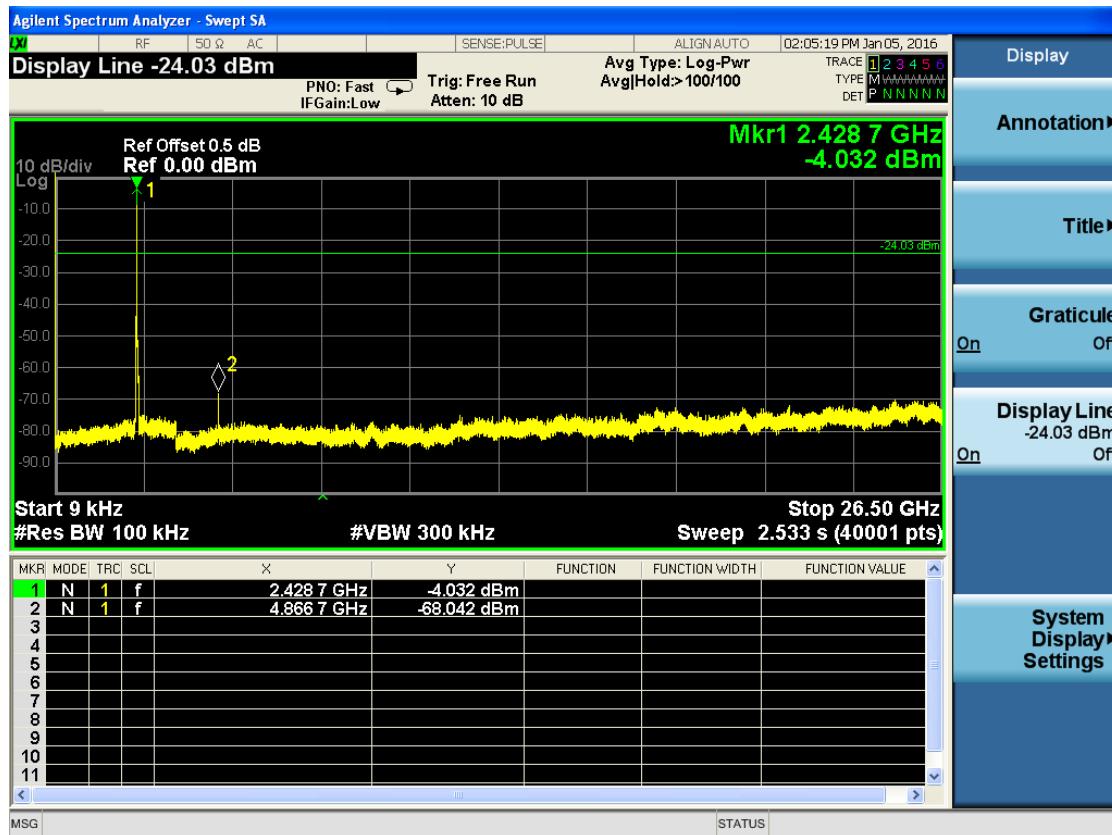
## 802.11n HT20 /Chain 0



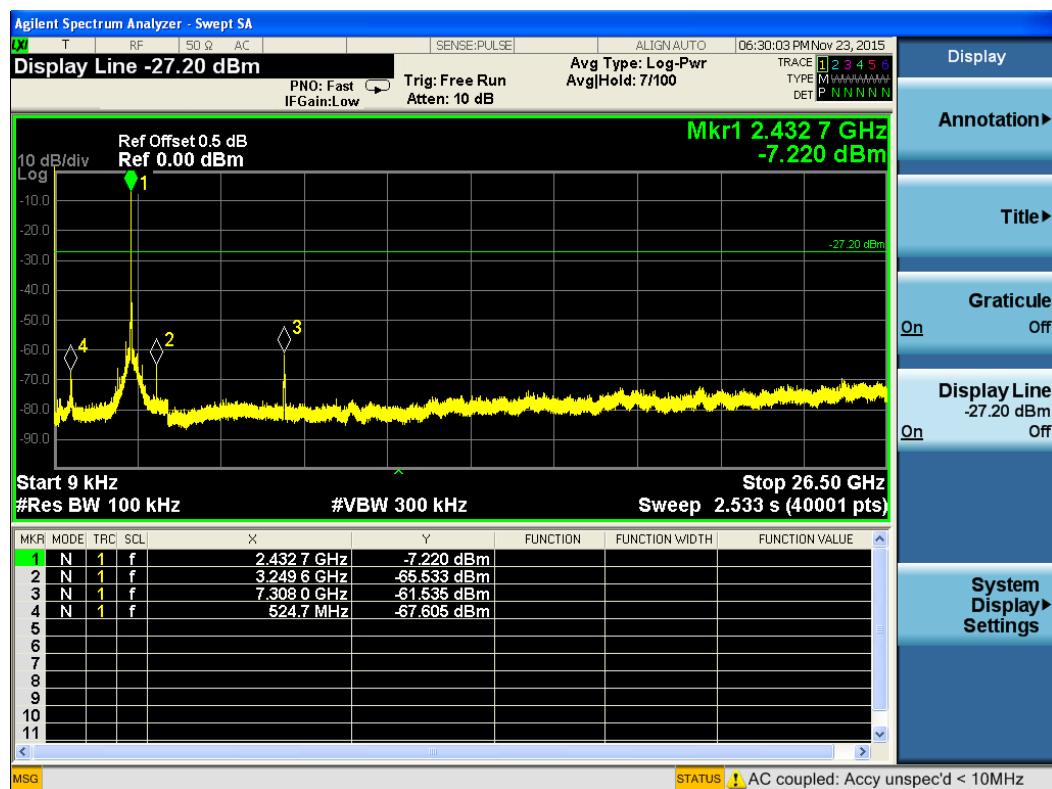
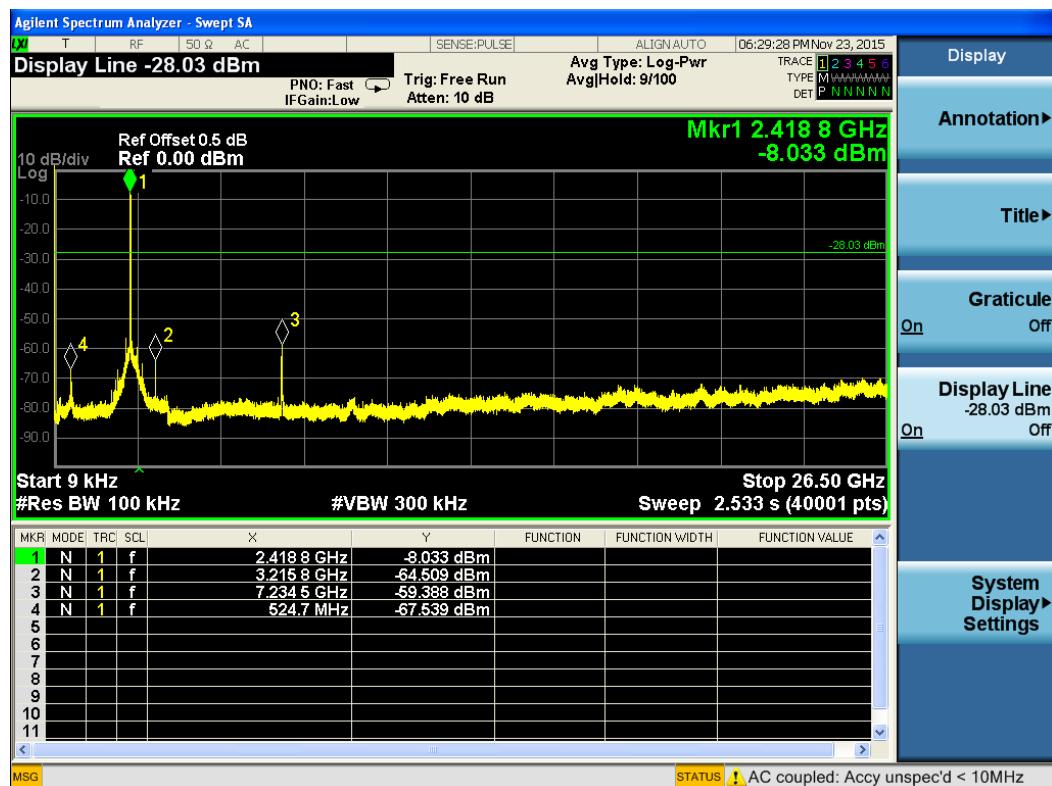


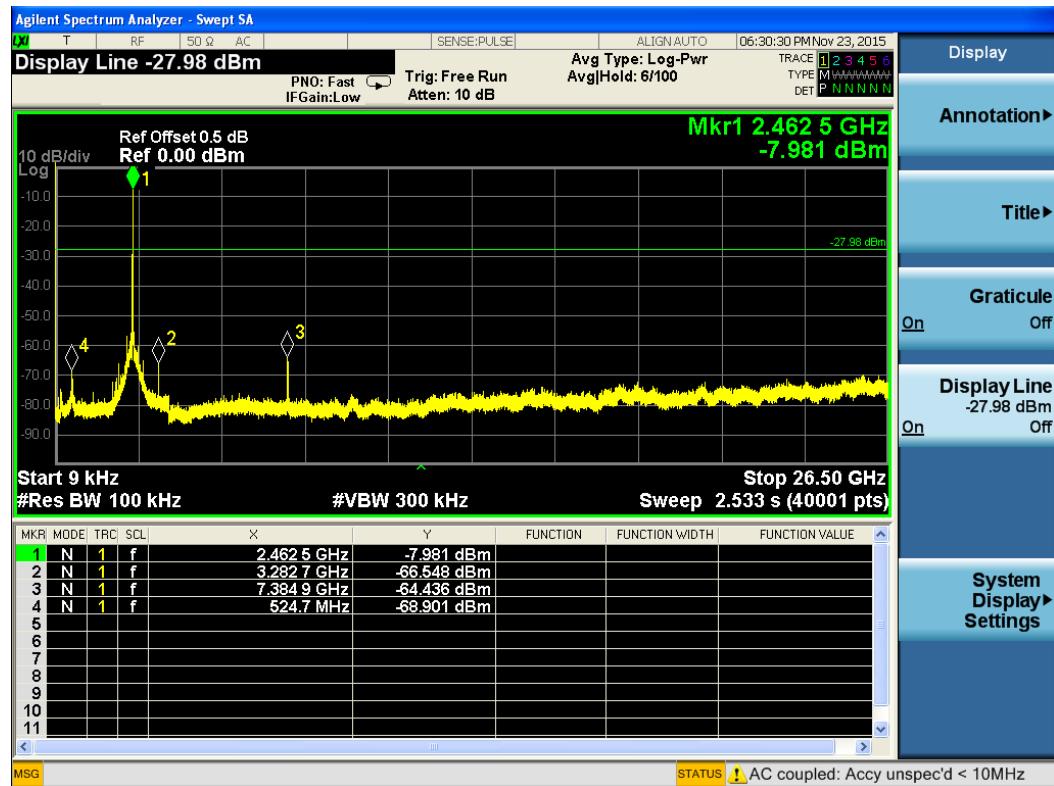
## 802.11n HT20 /Chain 1



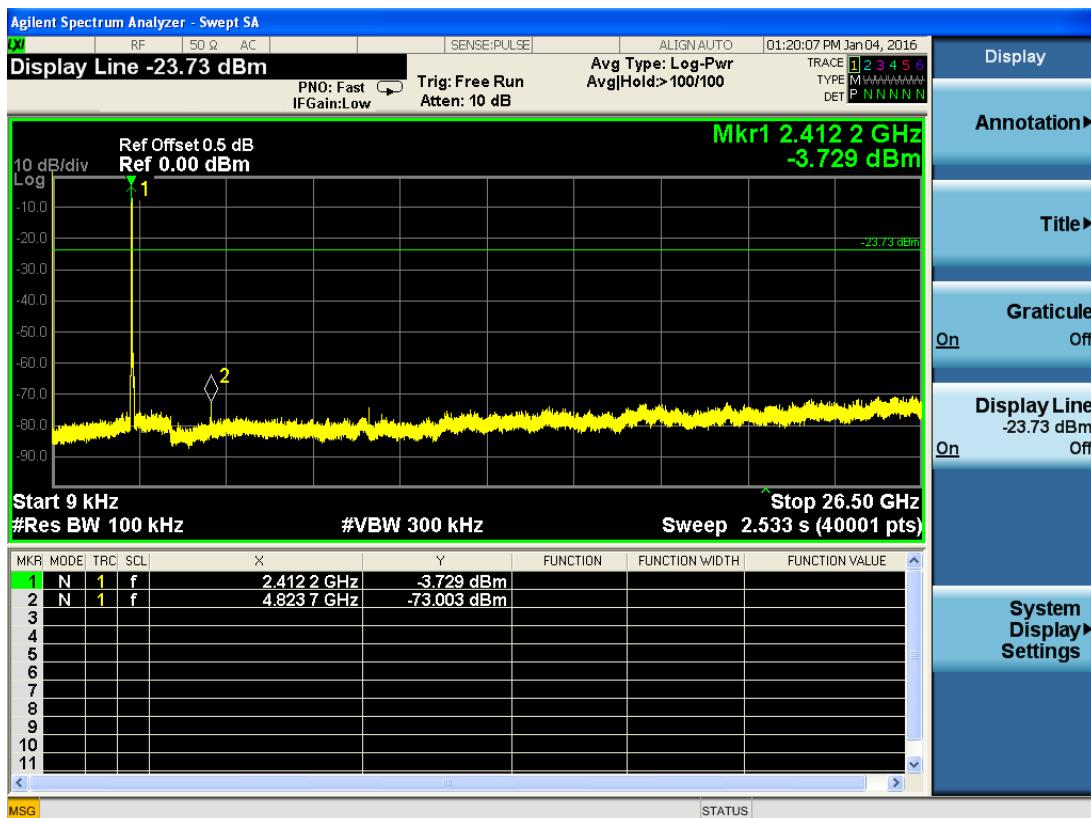


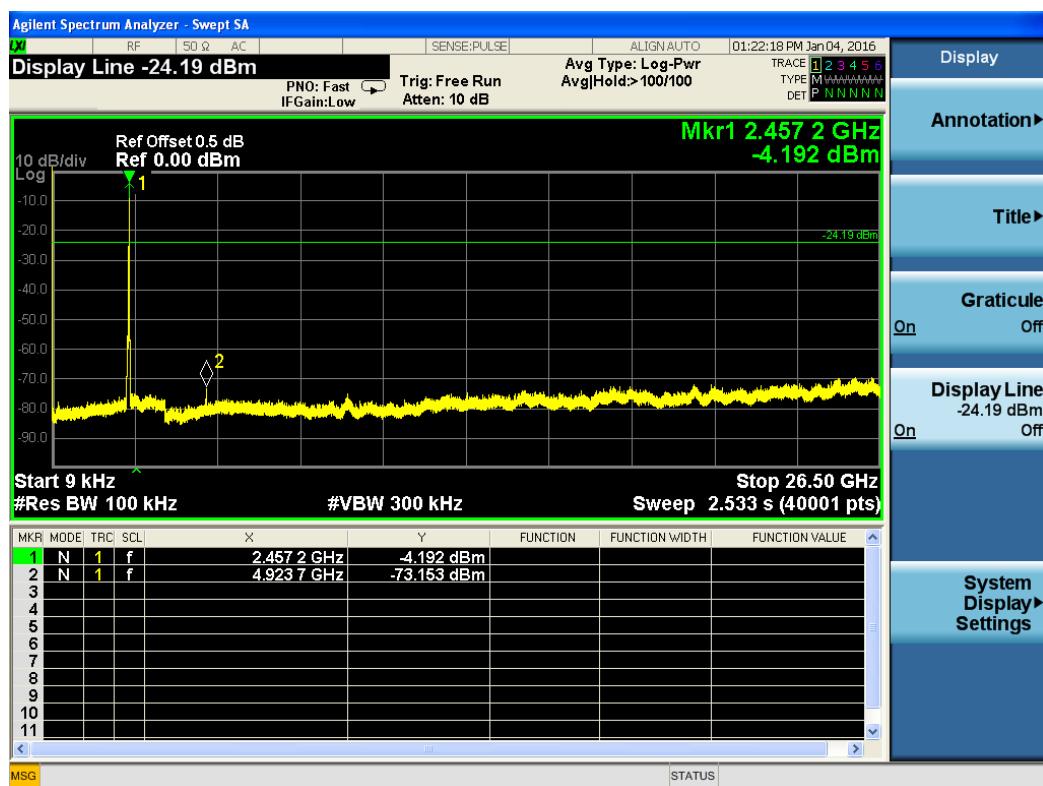
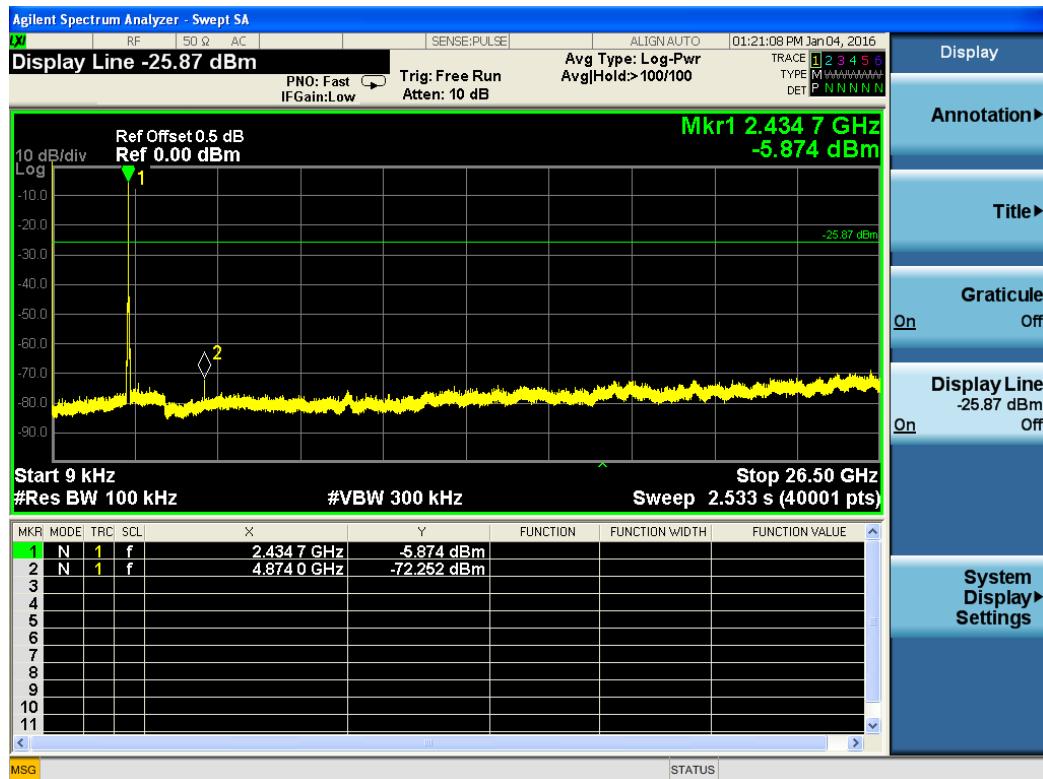
## 802.11n HT20 /Chain 2



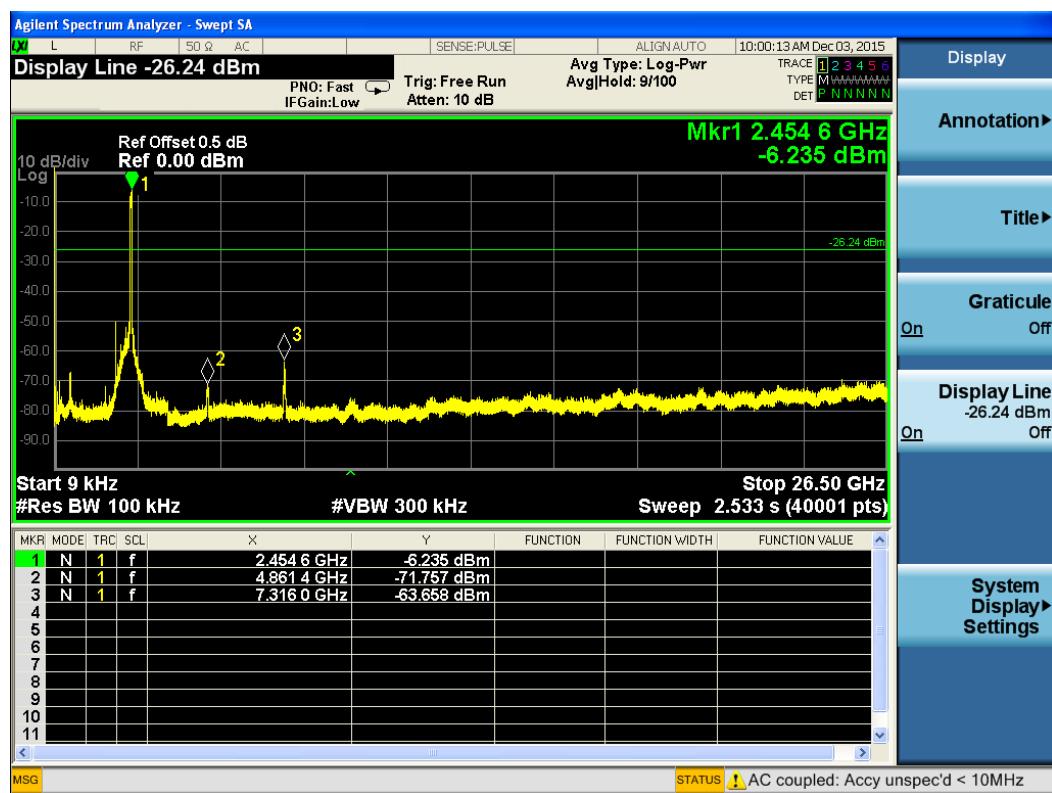
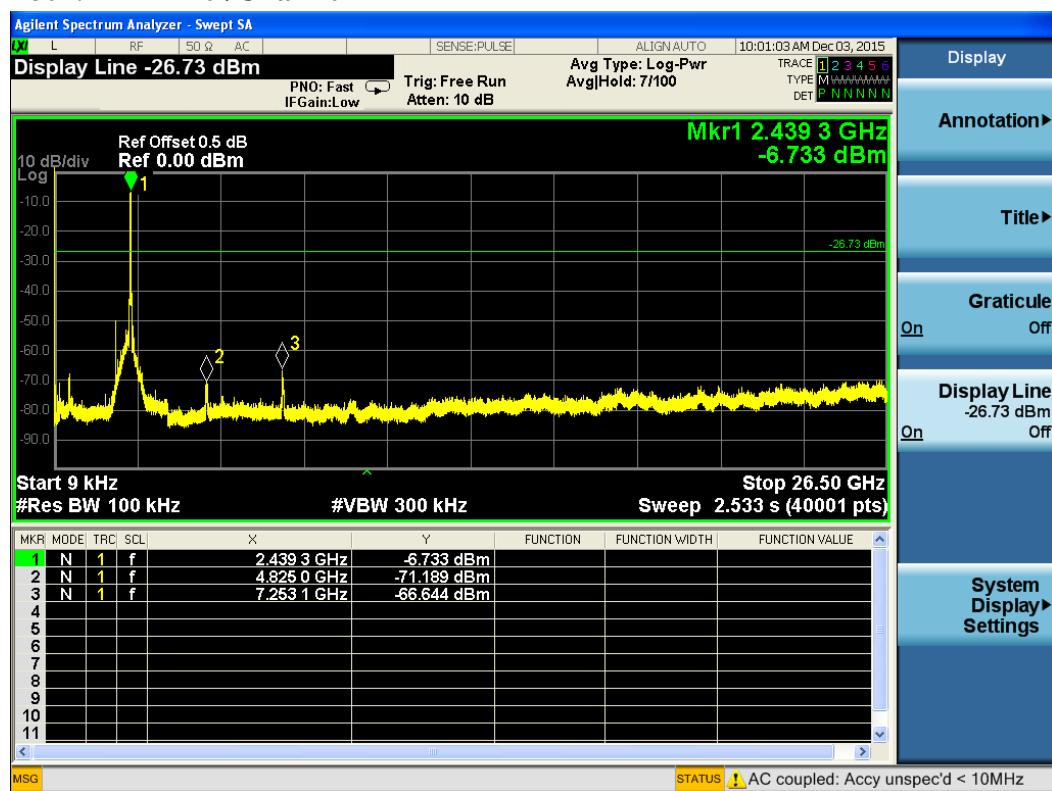


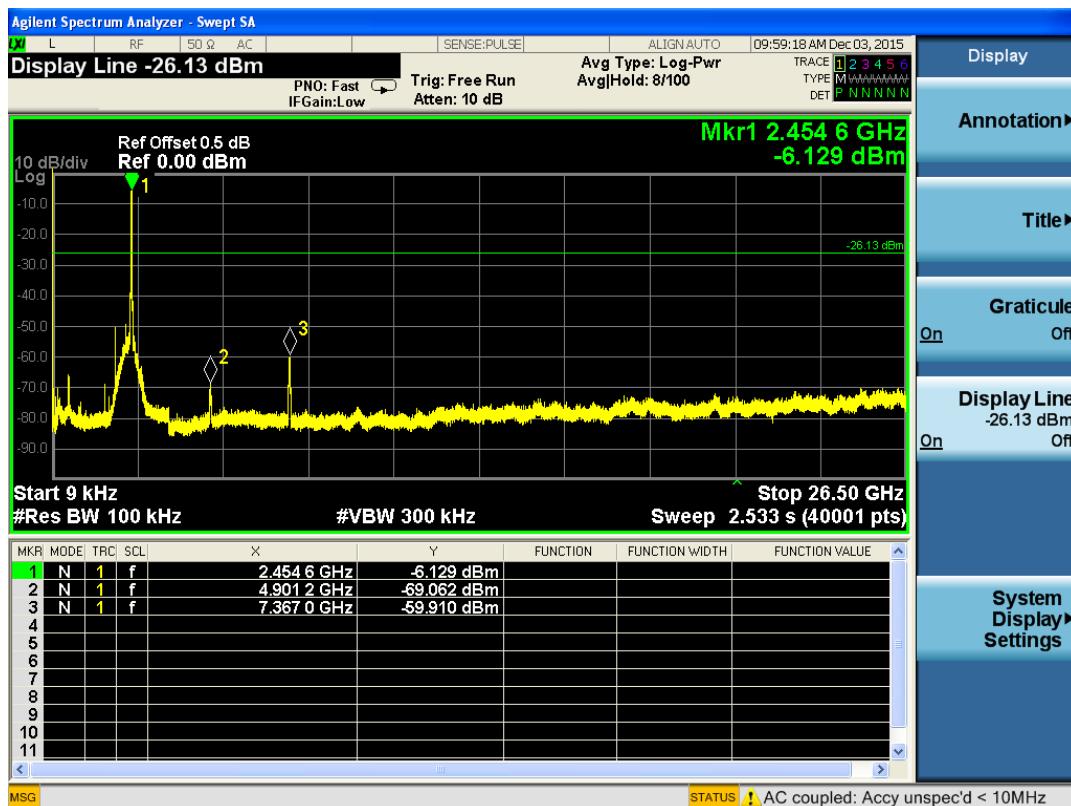
### 802.11n HT20 /Chain 3



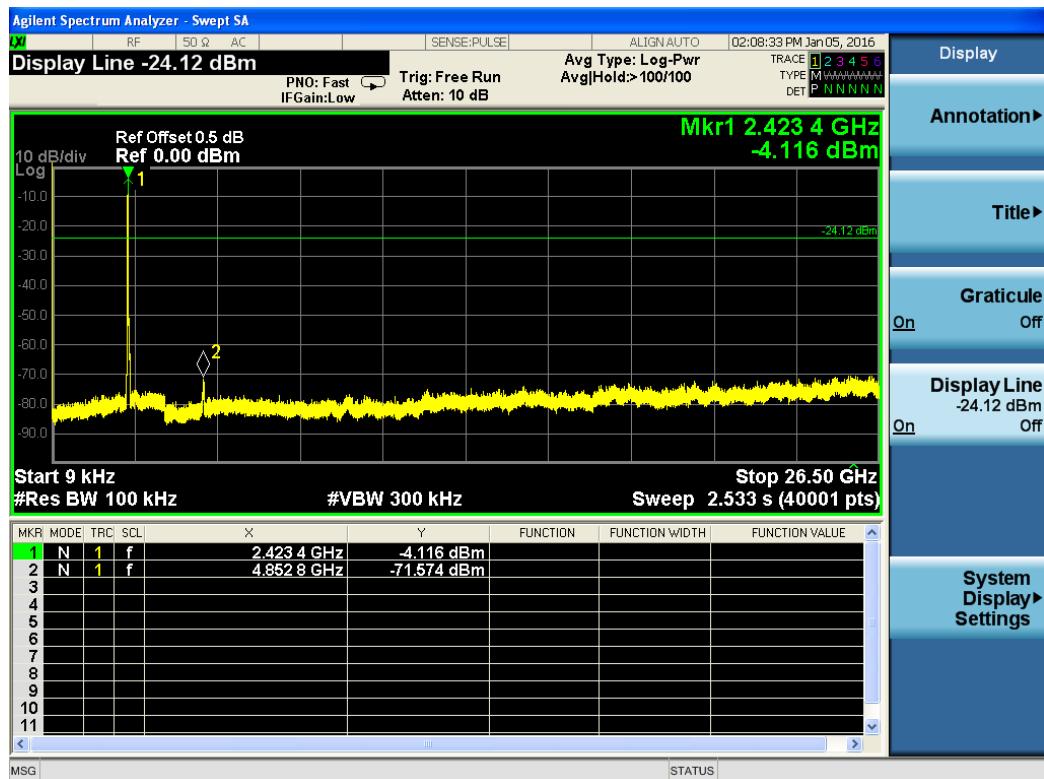


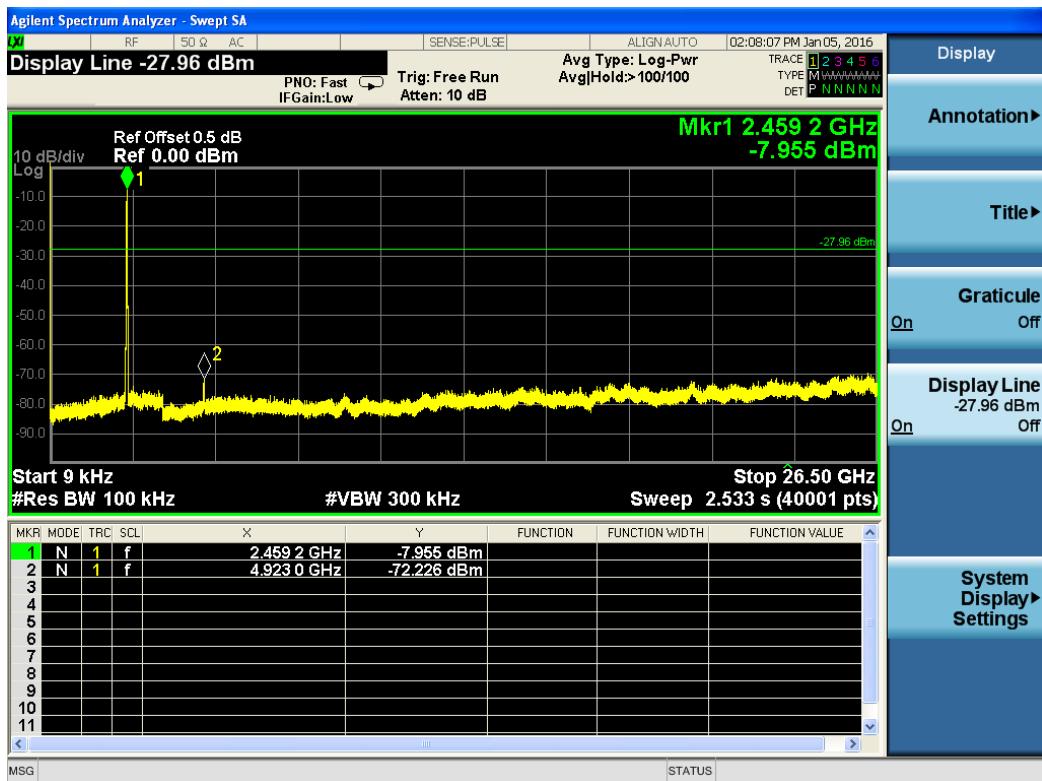
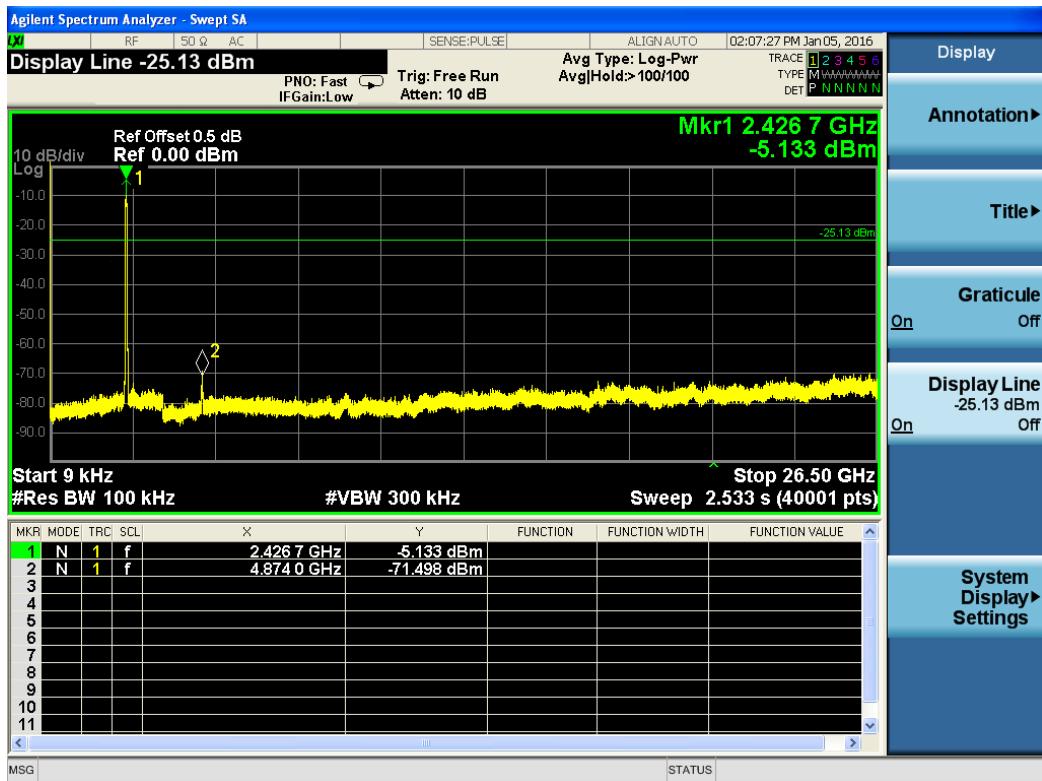
## 802.11n HT40 /Chain 0



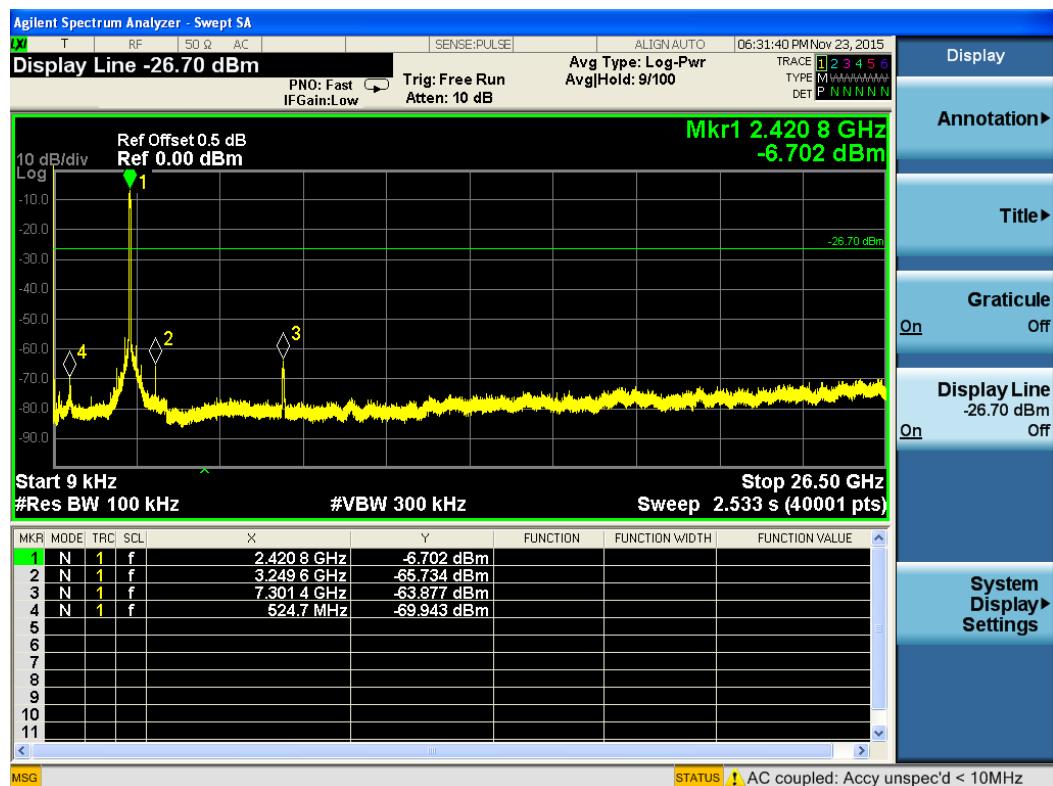
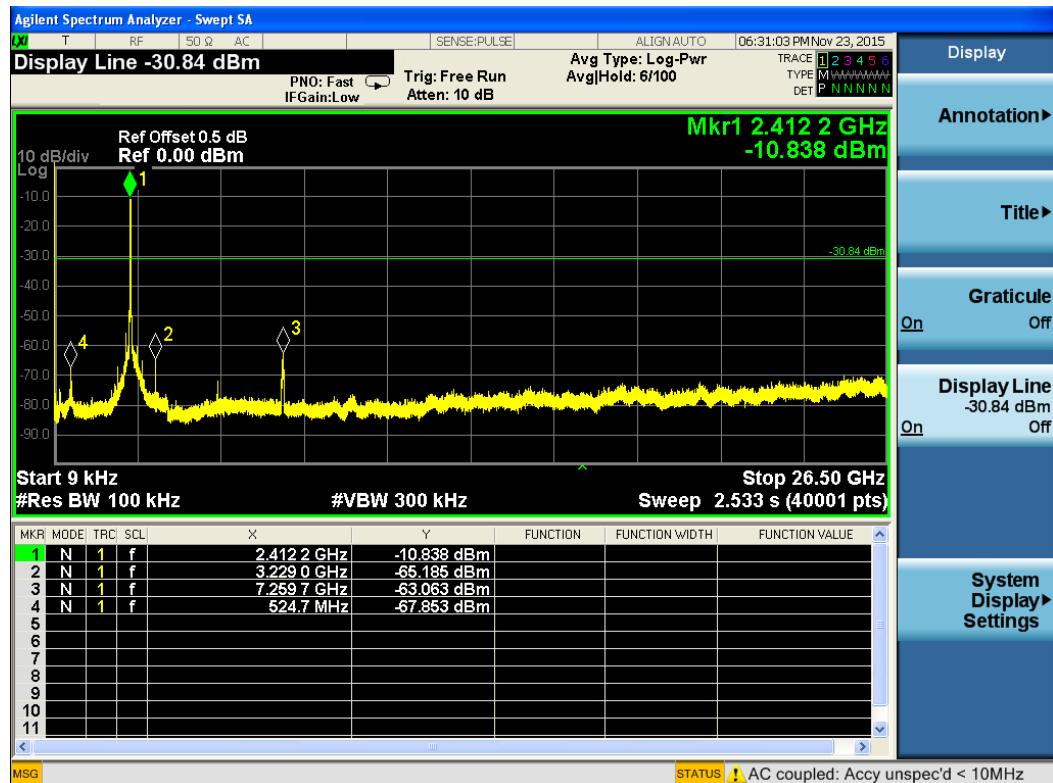


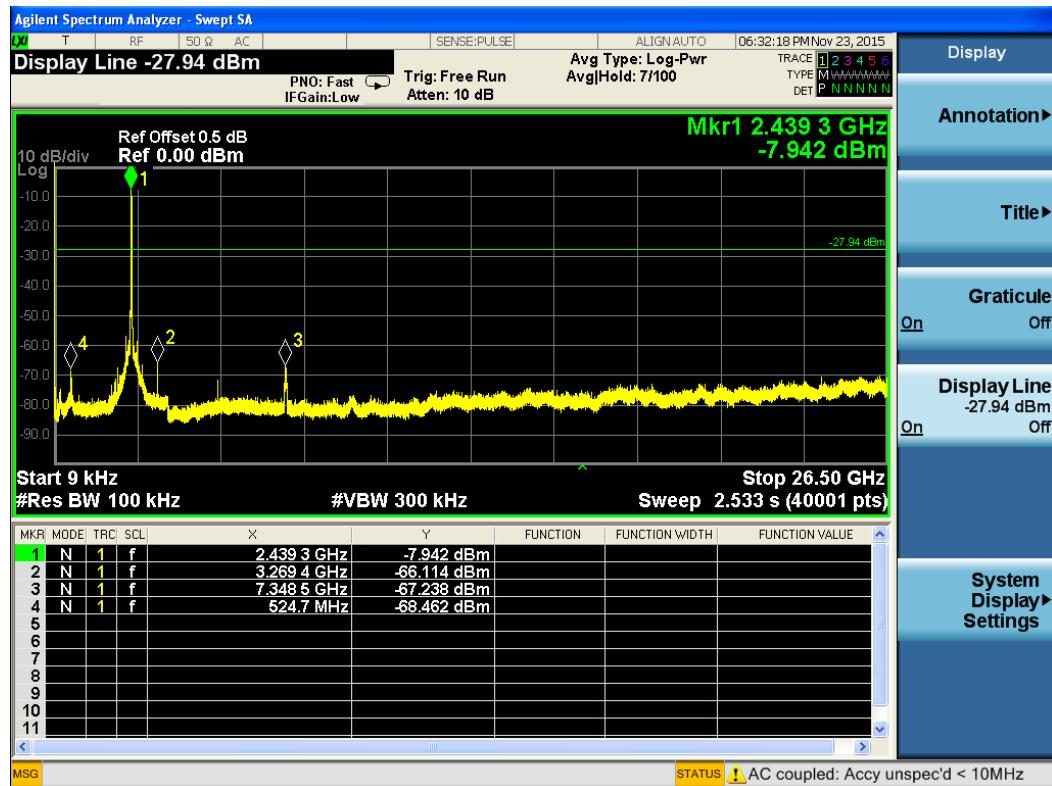
## 802.11n HT40 /Chain 1



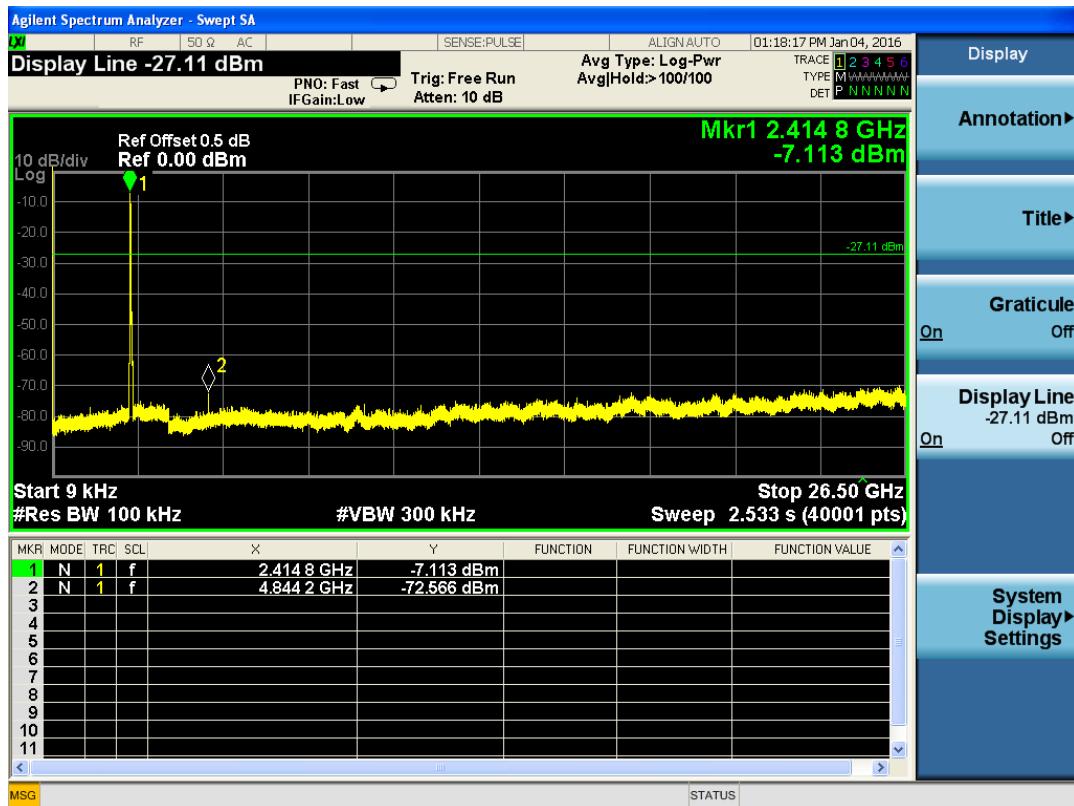


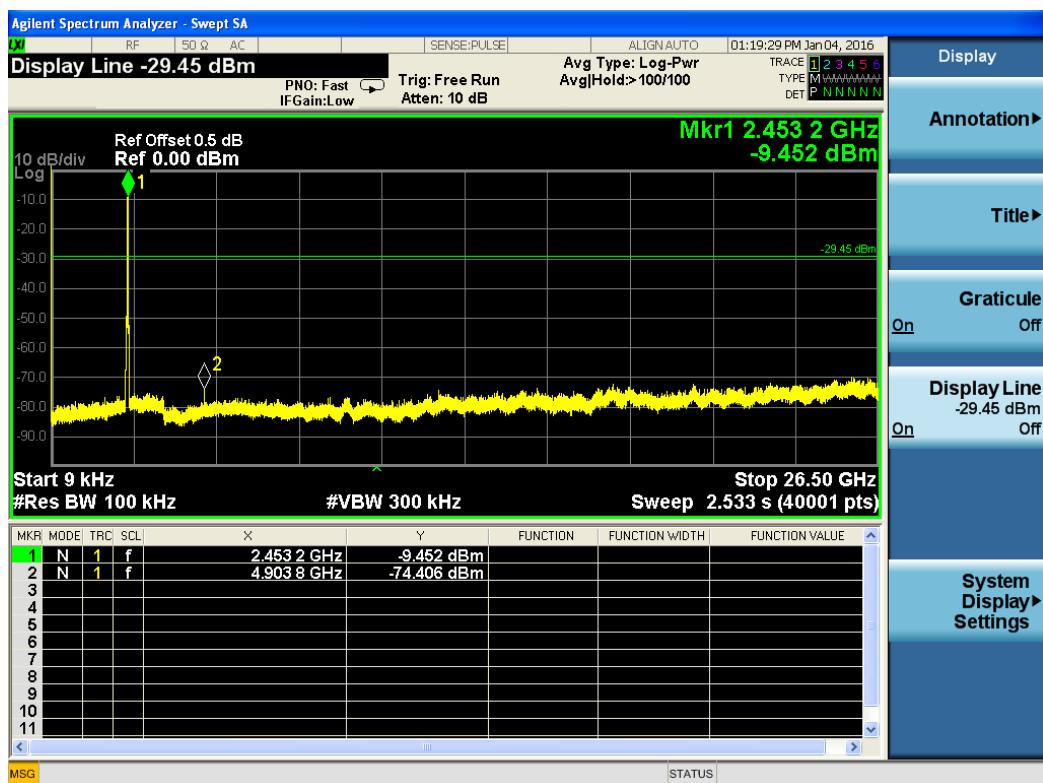
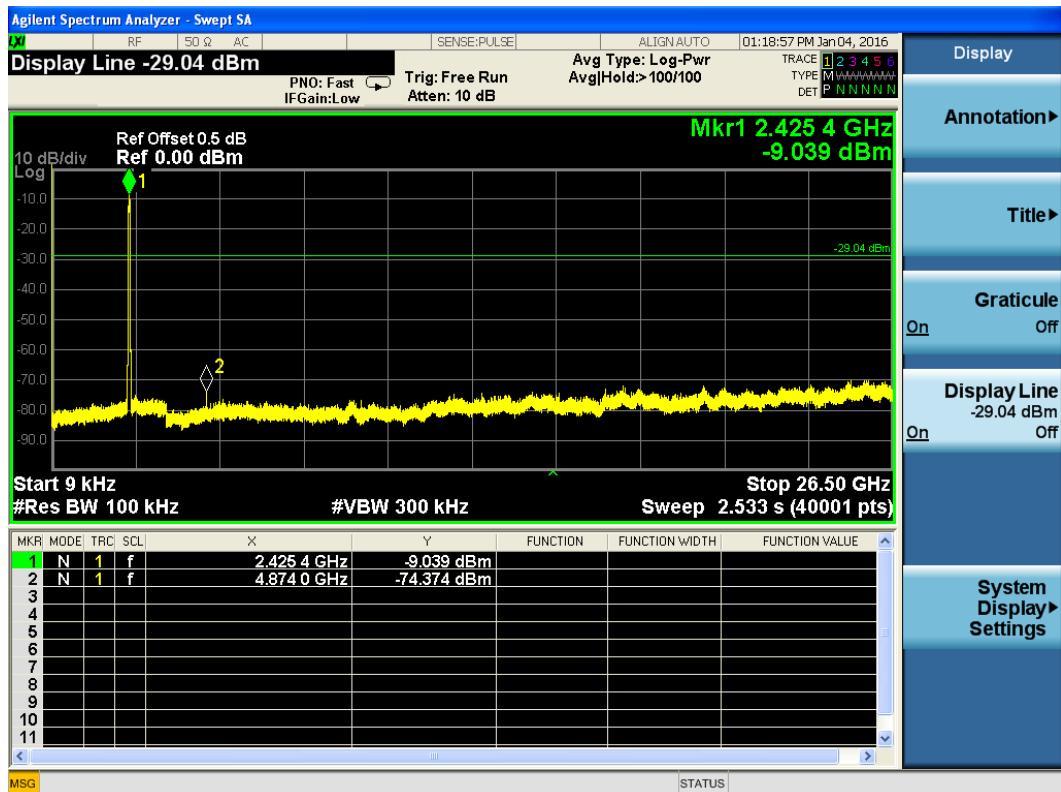
## 802.11n HT40 /Chain 2





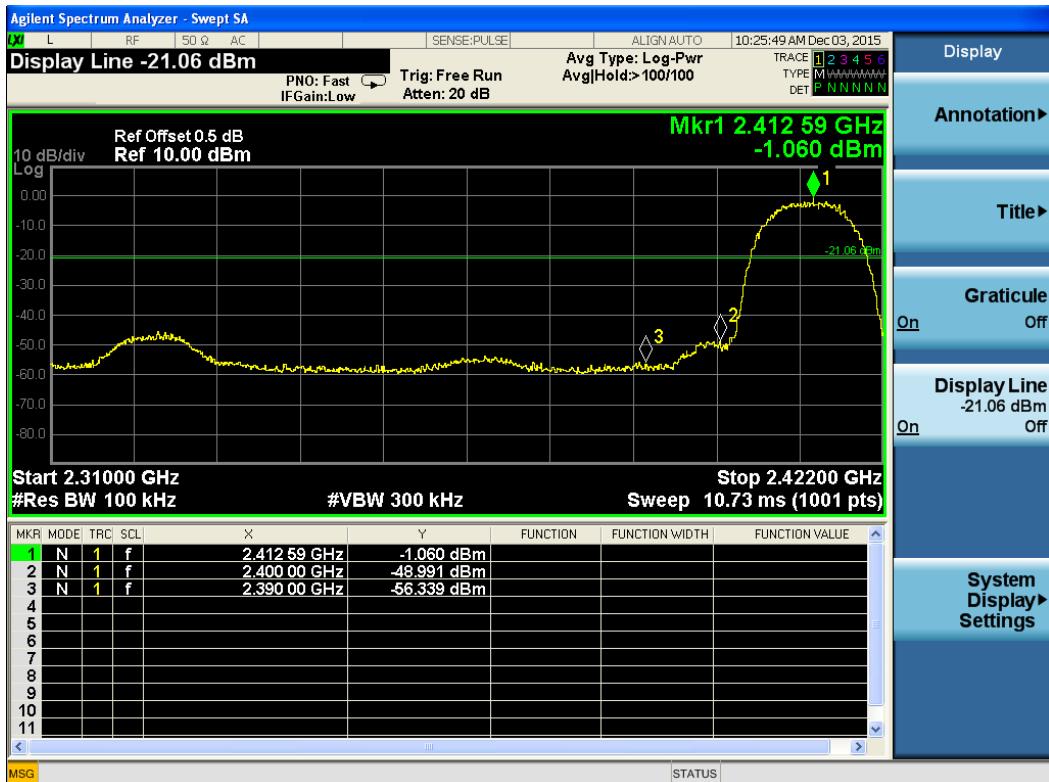
### 802.11n HT40 /Chain 3



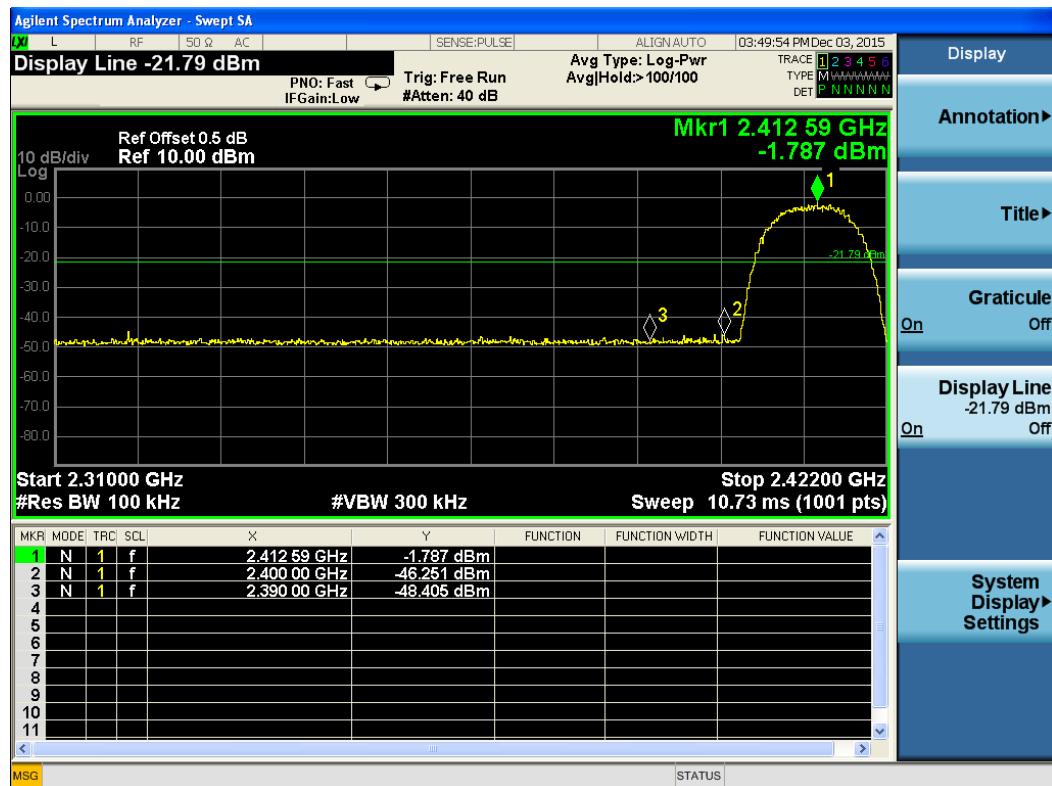


### 6.6.7. Test Results of Band Edges Test

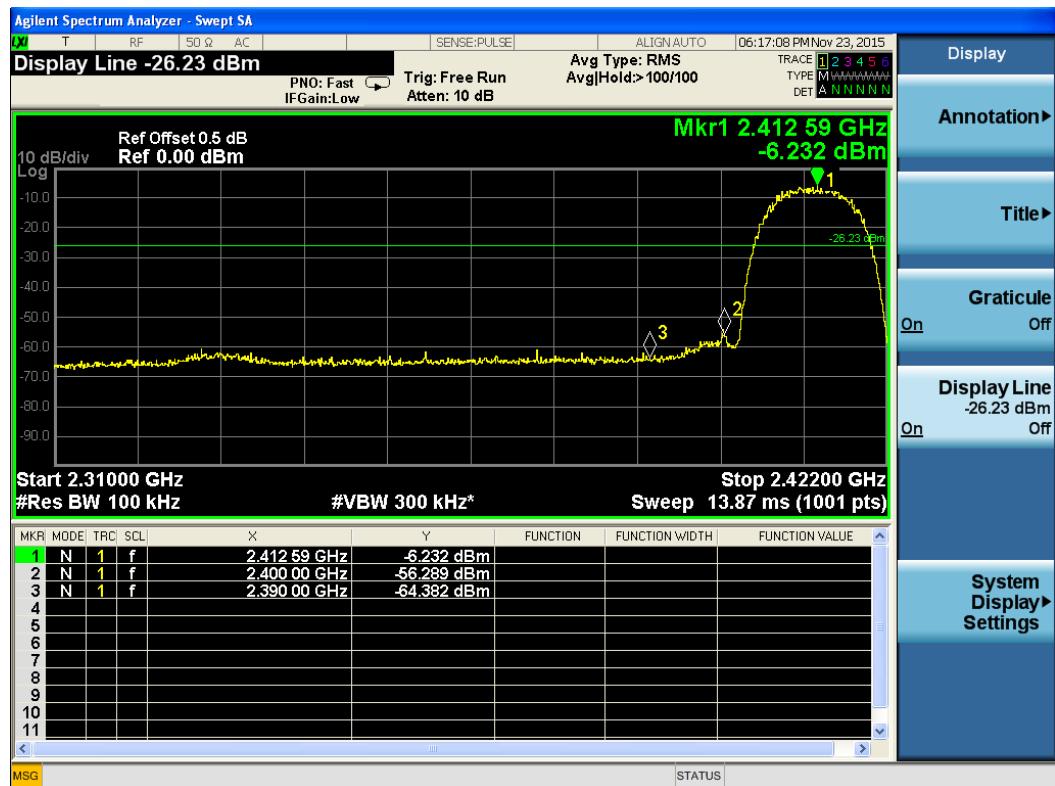
## 802.11b / Chain 0



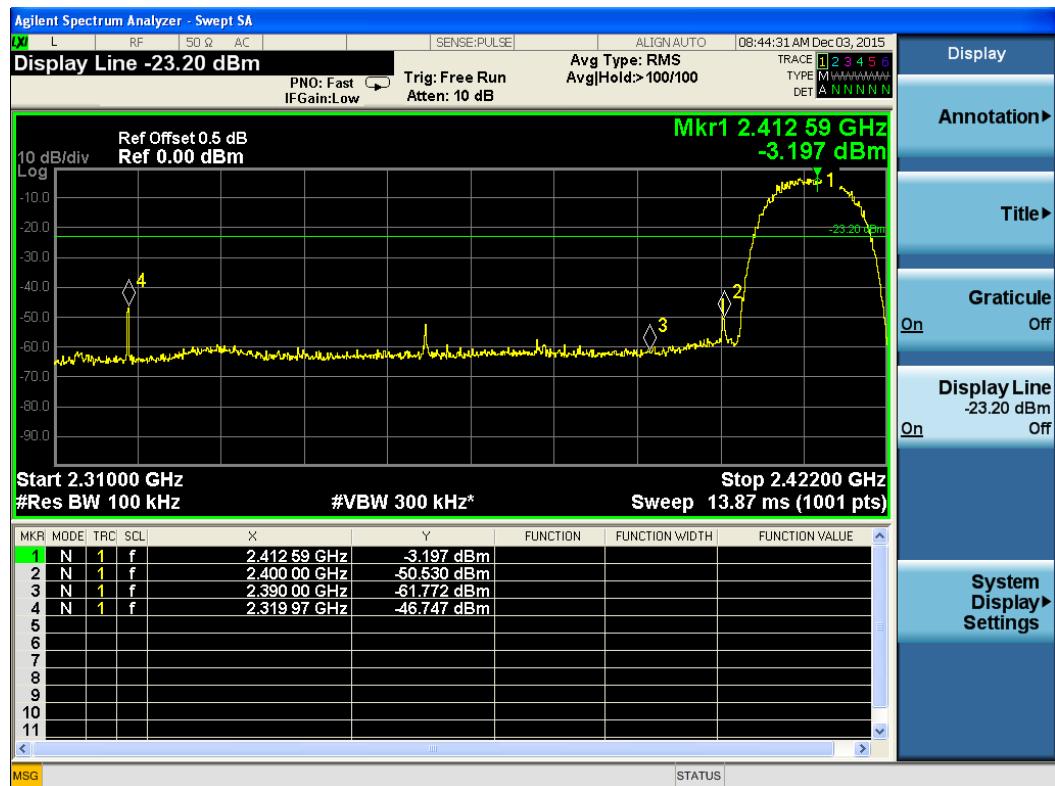
## 802.11b / Chain 1



## 802.11b / Chain 2



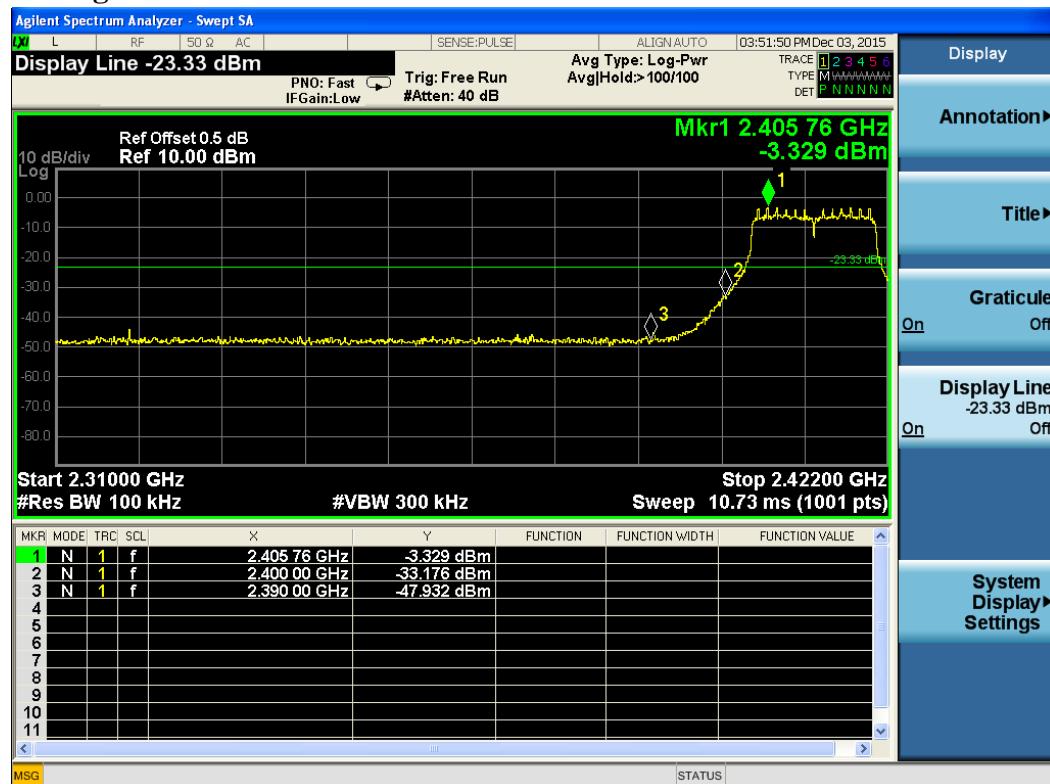
## 802.11b / Chain 3



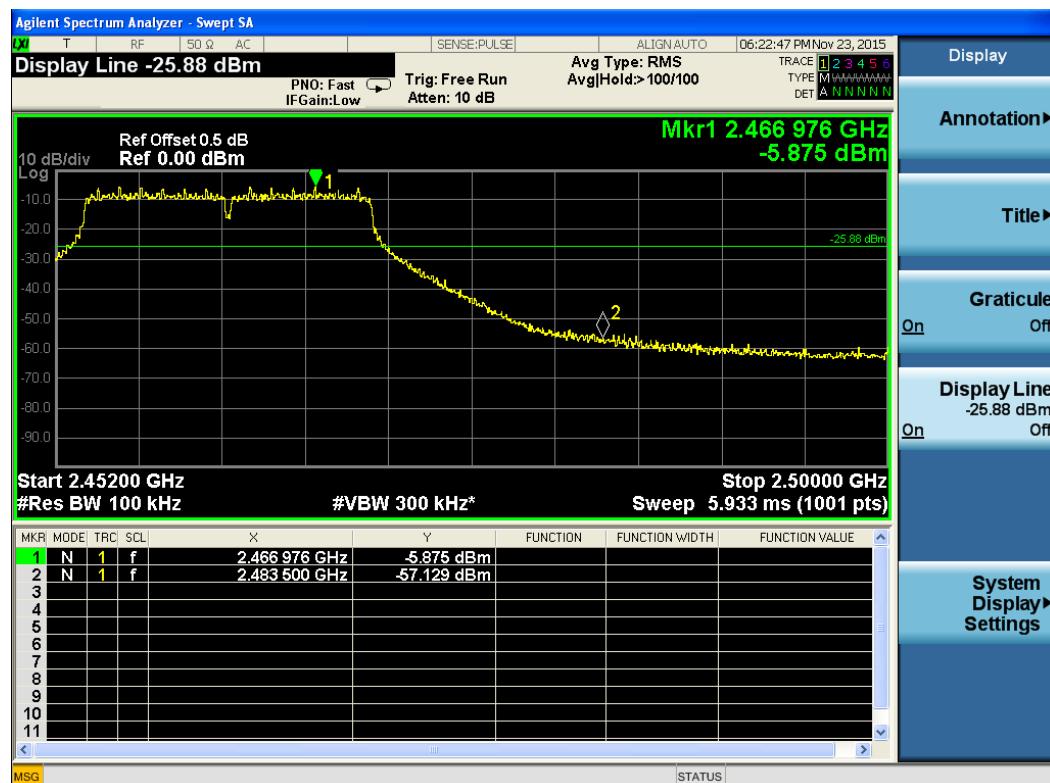
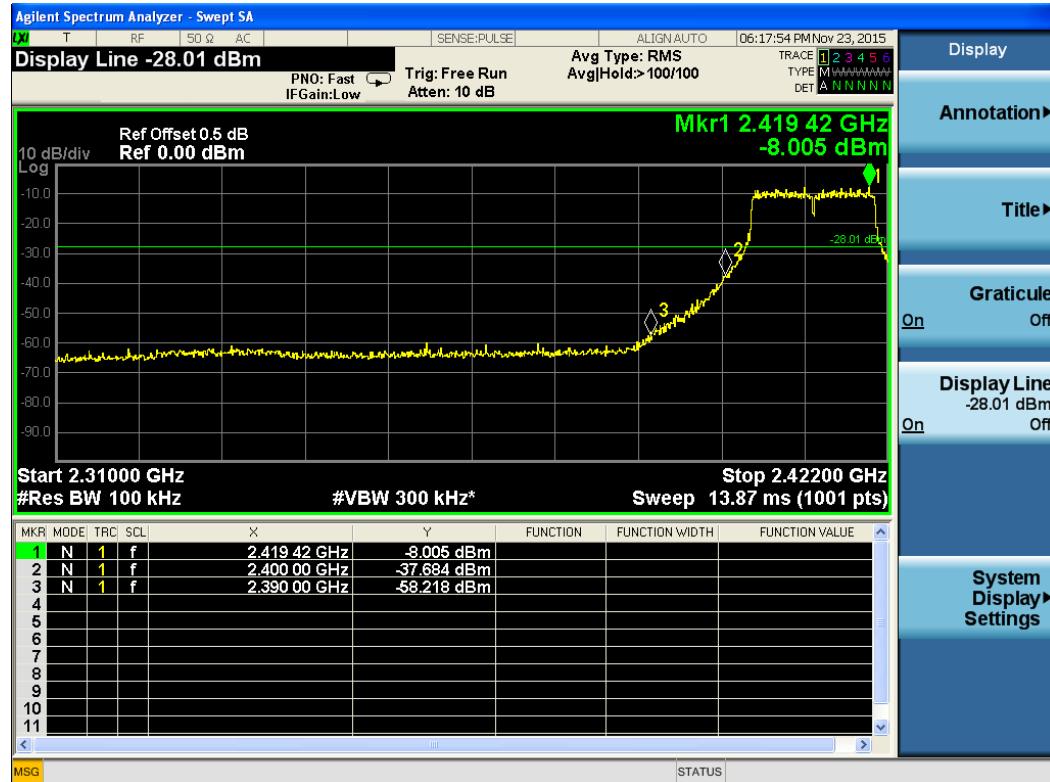
## 802.11g / Chain 0



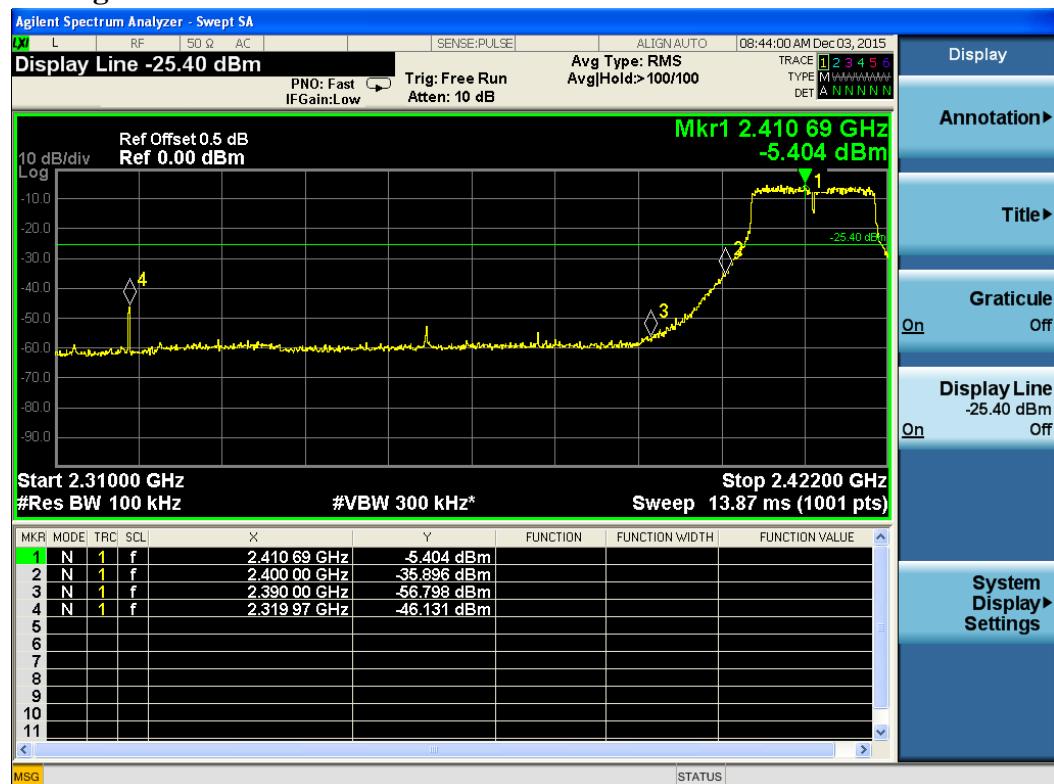
## 802.11g / Chain 1



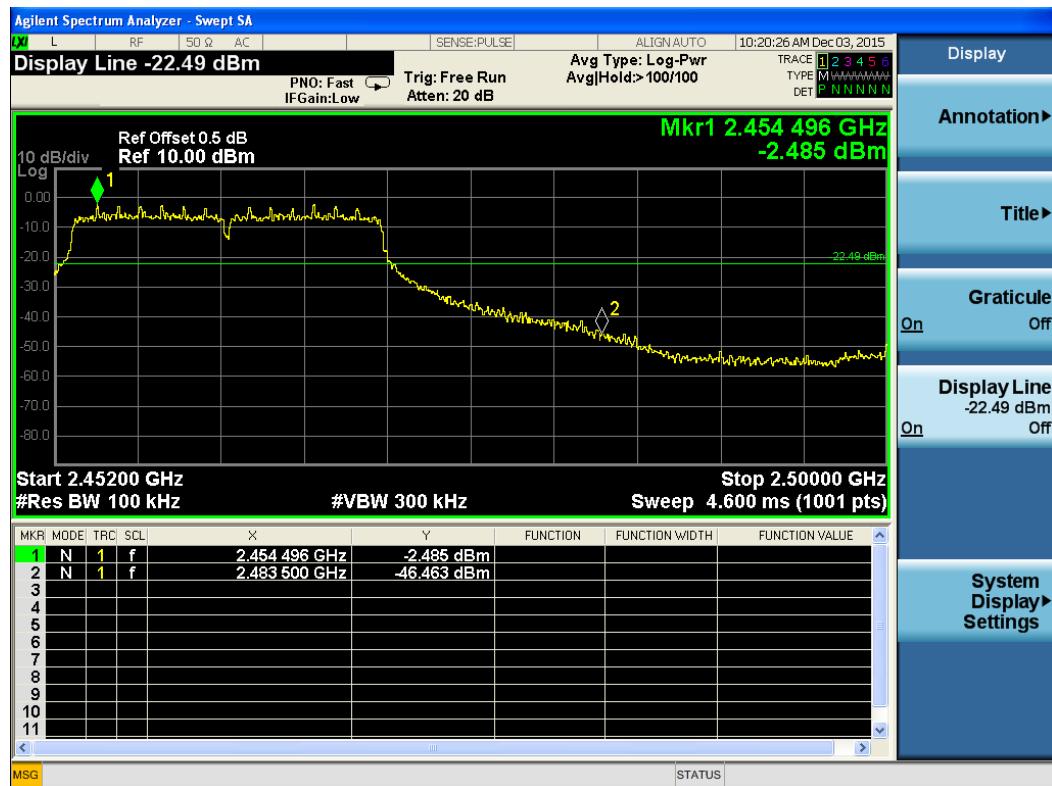
## 802.11g / Chain 2



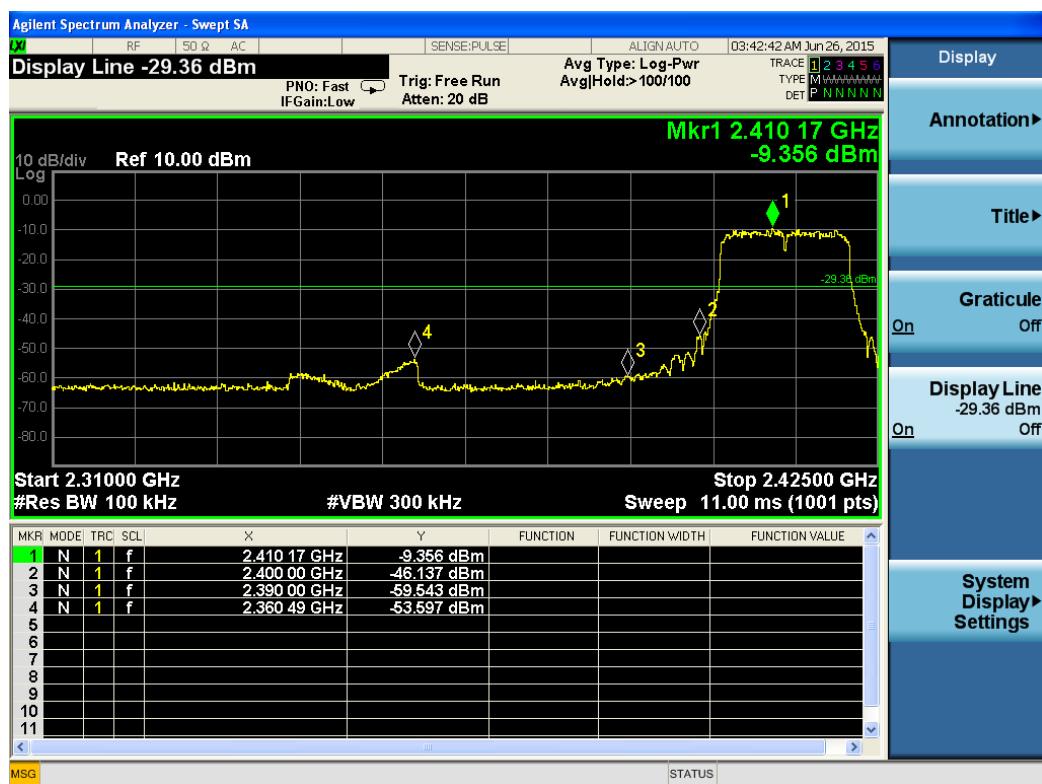
## 802.11g / Chain 3



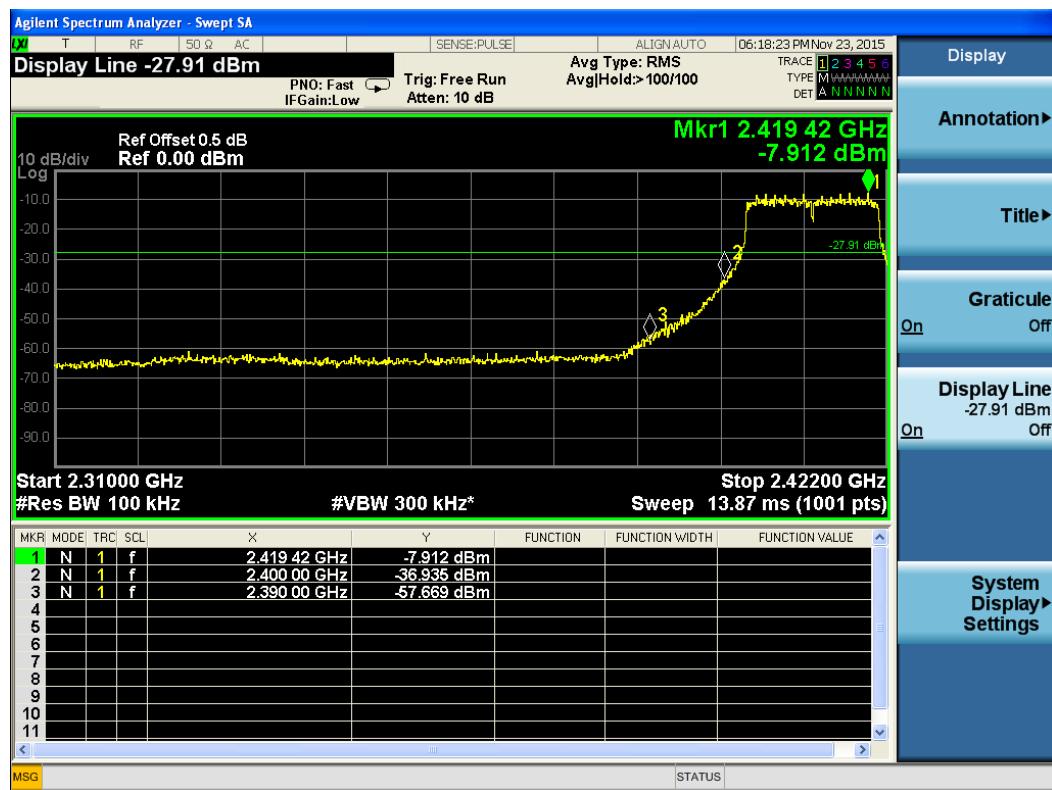
## 802.11n HT20 / Chain 0



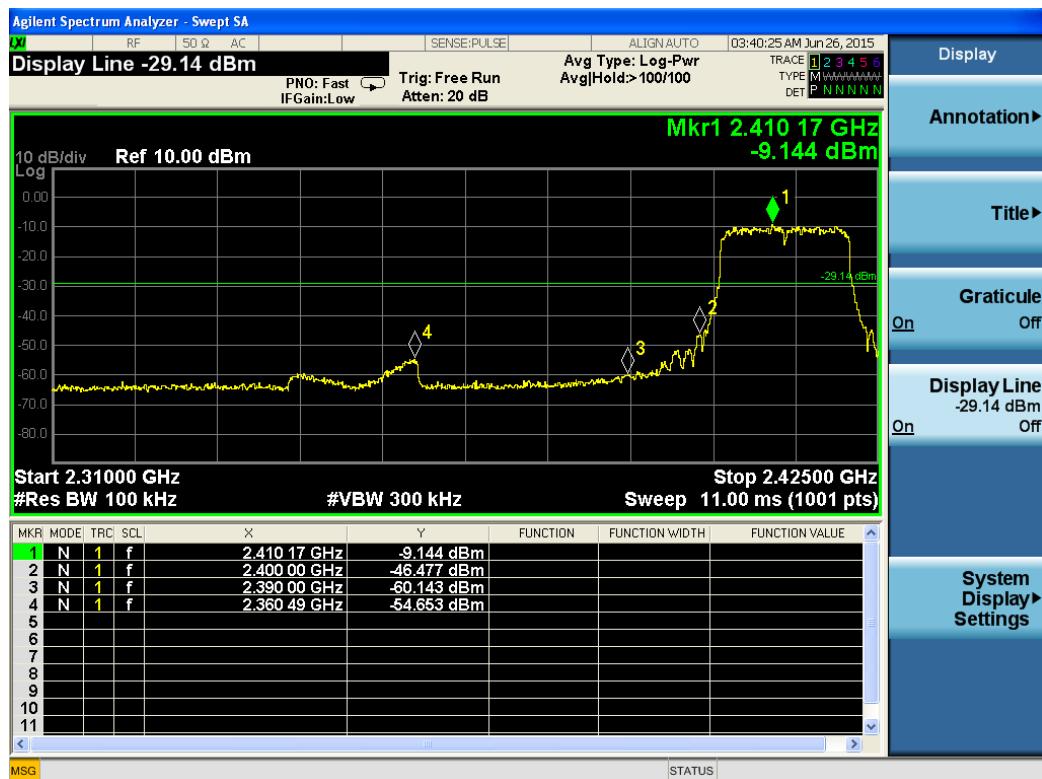
## 802.11n HT20 / Chain 1



## 802.11n HT20 / Chain 2



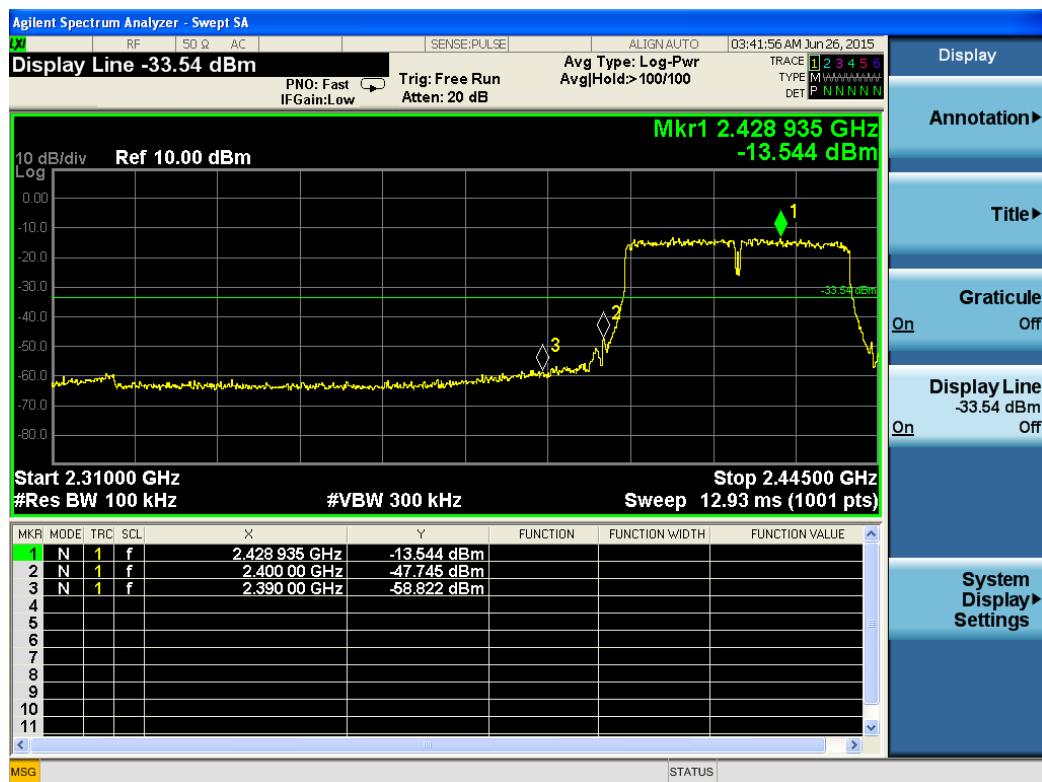
## 802.11n HT20 / Chain 3



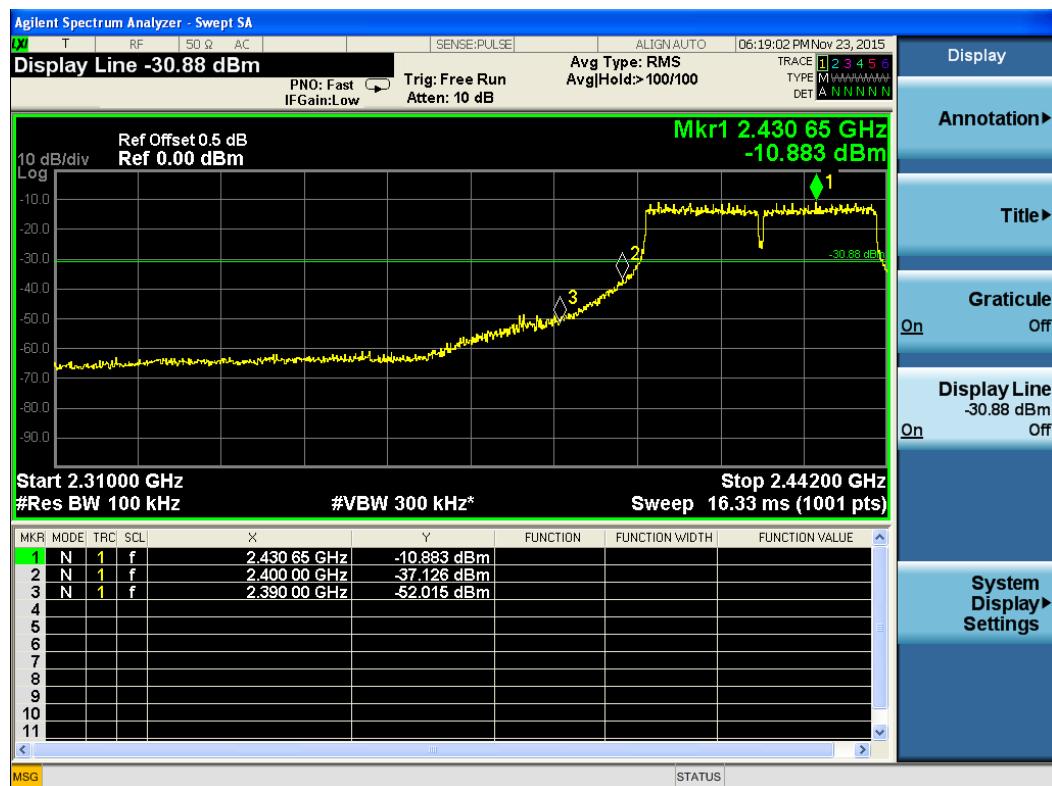
## 802.11n HT40 / Chain 0



## 802.11n HT40 / Chain 1



## 802.11n HT40 / Chain 2



## 802.11n HT40 / Chain 3



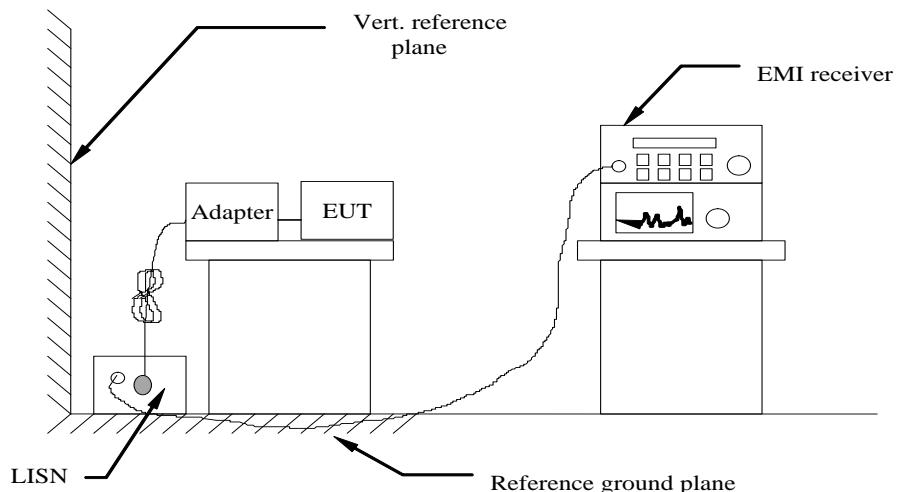
## 6.7. Power line conducted emissions

### 6.7.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

### 6.7.2 Block Diagram of Test Setup

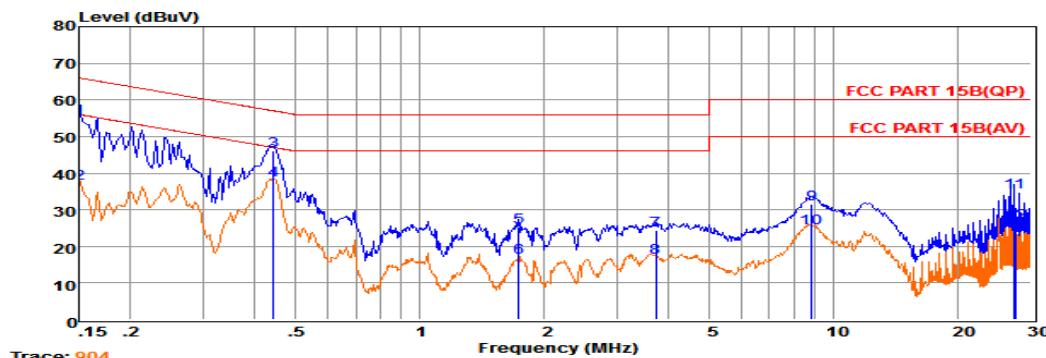


### 6.7.3 Test Results

PASS.

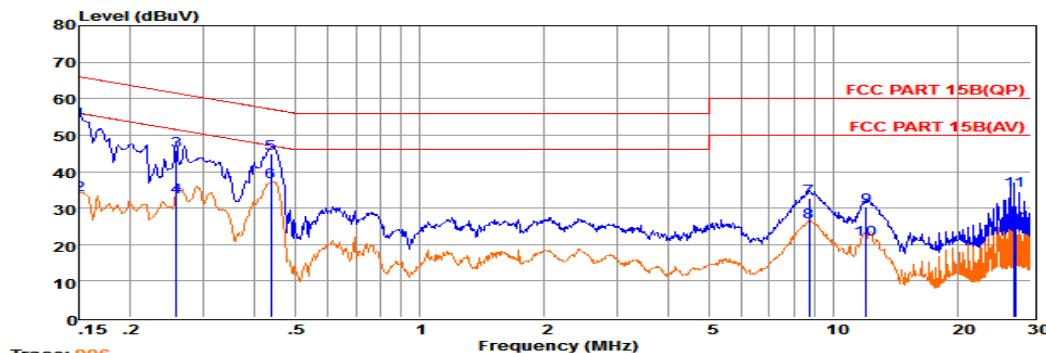
The test data please refer to following page.

## Test result (Input AC 120V/60Hz)



Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1 0.15000	35.33	9.57	0.02	10.00	54.92	66.00	-11.08	QP
2 0.15010	17.52	9.57	0.02	10.00	37.11	55.99	-18.88	Average
3 0.44208	26.29	9.62	0.04	10.00	45.95	57.02	-11.07	QP
4 0.44218	18.34	9.62	0.04	10.00	38.00	47.02	-9.02	Average
5 1.73447	5.66	9.64	0.05	10.00	25.35	56.00	-30.65	QP
6 1.73547	-2.67	9.64	0.05	10.00	17.02	46.00	-28.98	Average
7 3.71976	4.63	9.65	0.06	10.00	24.34	56.00	-31.66	QP
8 3.72076	-2.83	9.65	0.06	10.00	16.88	46.00	-29.12	Average
9 8.86920	11.84	9.69	0.08	10.00	31.61	60.00	-28.39	QP
10 8.87020	5.35	9.69	0.08	10.00	25.12	50.00	-24.88	Average
1127.41598	15.07	9.71	0.14	10.00	34.92	60.00	-25.08	QP
1227.41698	6.64	9.71	0.14	10.00	26.49	50.00	-23.51	Average

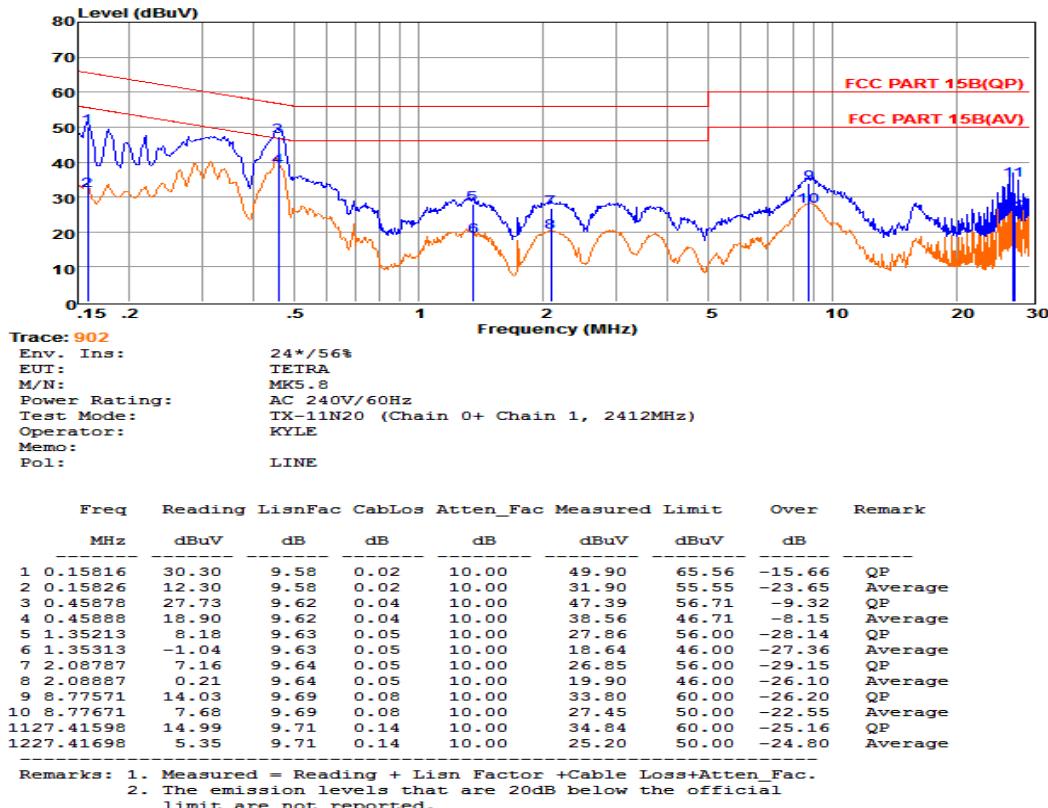
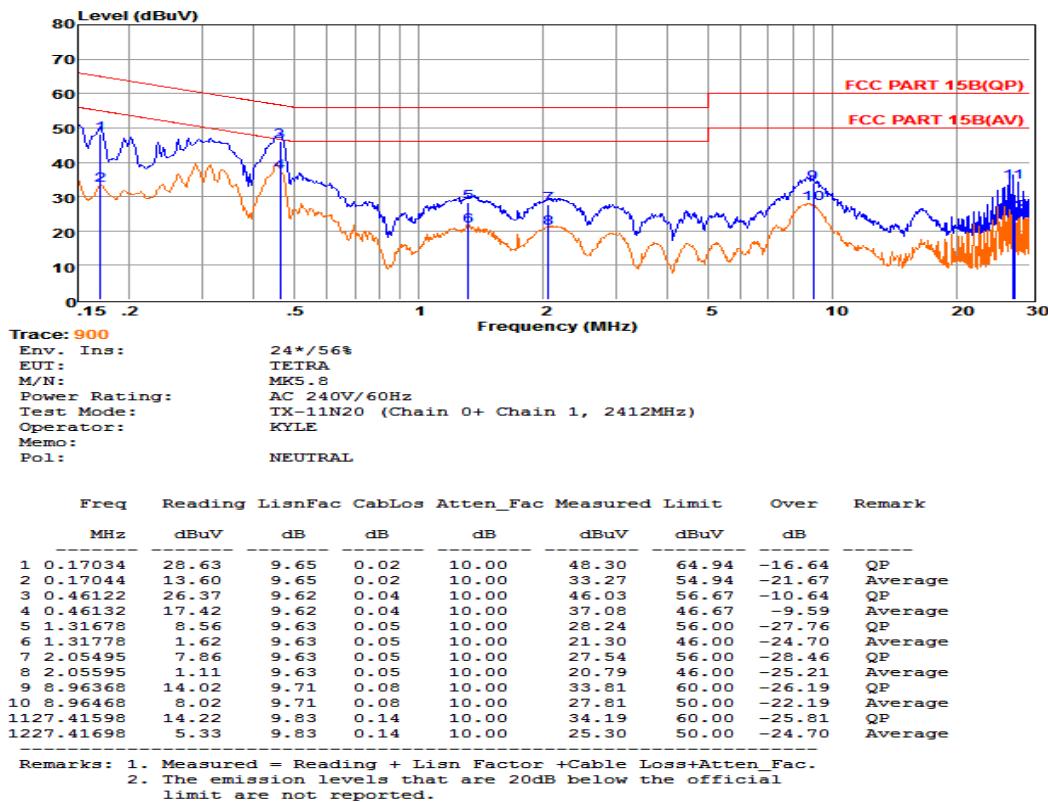
Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten\_Fac.  
2. The emission levels that are 20dB below the official limit are not reported.



Freq	Reading	LisnFac	CabLos	Atten_Fac	Measured	Limit	Over	Remark
MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1 0.15000	34.09	9.70	0.02	10.00	53.81	66.00	-12.19	QP
2 0.15010	13.91	9.70	0.02	10.00	33.63	55.99	-22.36	Average
3 0.25751	26.29	9.60	0.03	10.00	45.92	61.51	-15.59	QP
4 0.25761	13.29	9.60	0.03	10.00	32.92	51.51	-18.59	Average
5 0.43742	25.14	9.62	0.04	10.00	44.80	57.11	-12.31	QP
6 0.43752	17.50	9.62	0.04	10.00	37.16	47.11	-9.95	Average
7 8.72934	13.02	9.71	0.08	10.00	32.81	60.00	-27.19	QP
8 8.73034	6.30	9.71	0.08	10.00	26.09	50.00	-23.91	Average
911.99618	10.43	9.73	0.09	10.00	30.25	60.00	-29.75	QP
1011.99718	1.66	9.73	0.09	10.00	21.48	50.00	-28.52	Average
1127.41598	14.92	9.83	0.14	10.00	34.89	60.00	-25.11	QP
1227.41698	4.89	9.83	0.14	10.00	24.86	50.00	-25.14	Average

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss+Atten\_Fac.  
2. The emission levels that are 20dB below the official limit are not reported.

## Test result (Input AC 240V/60Hz)



\*\*\*Note: Pre-scan all mode and recorded the worst case results in this report (802.11b (Low Channel)).

## 7. ANTENNA REQUIREMENT

### 7.1 Standard Applicable

According to antenna requirement of §15.203.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

And according to §15.247(4)(1), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

### 7.2 Antenna Connected Construction

#### 7.2.1. Standard Applicable

According to § 15.203 & RSS-Gen, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

#### 7.2.2. Antenna Connector Construction

The antenna used for transmitting is connect to PCB board by antenna port. Please see EUT photo for details.

#### 7.2.3. Results: Compliance.

-----THE END OF TEST REPORT-----