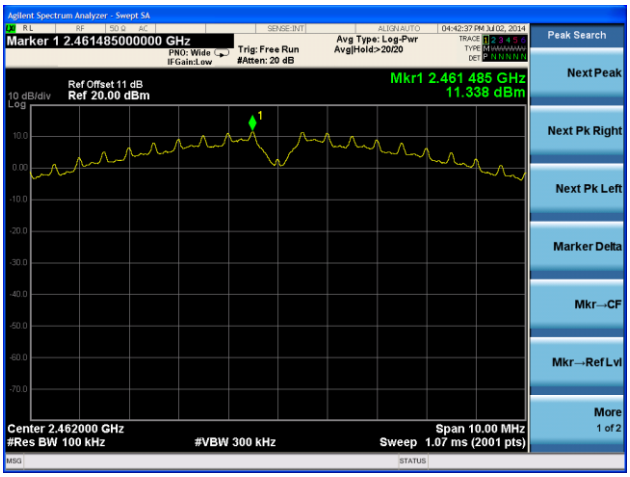
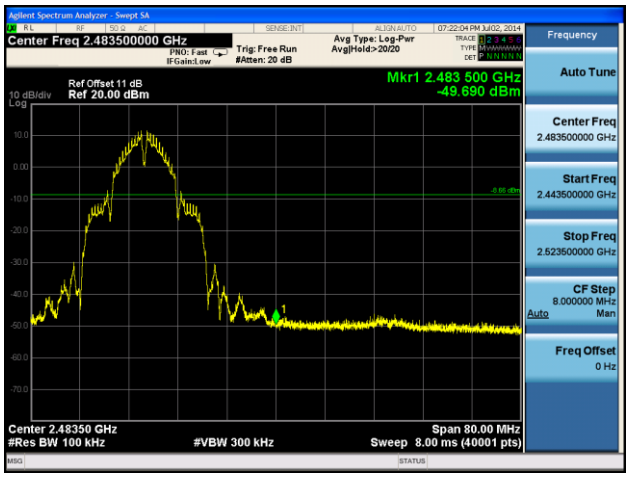
Channel 11 (2462MHz)

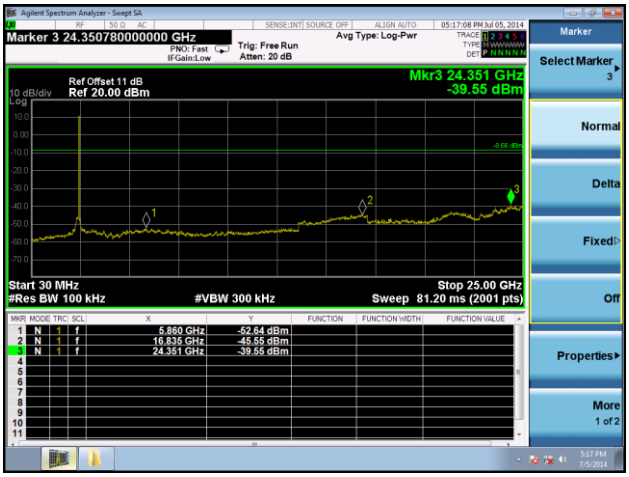
100kHz PSD Reference Level



High Band Edge



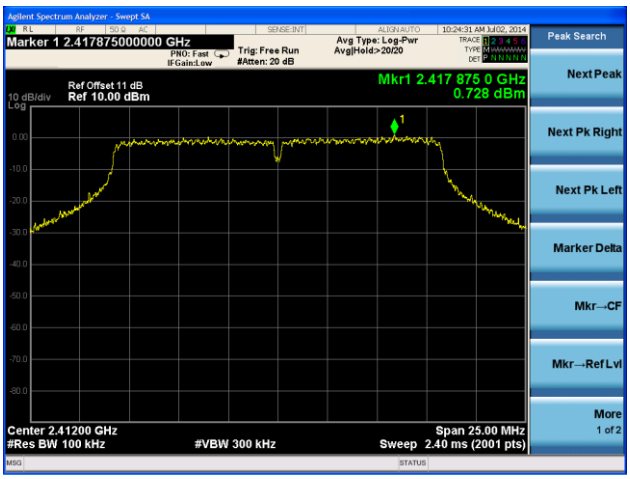
Spurious Emission



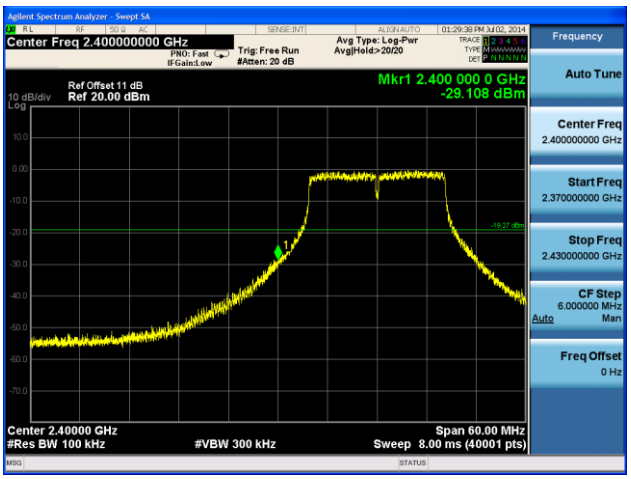
802.11g Out-of-Band Emissions - Ant 0 / Ant 0 + 1

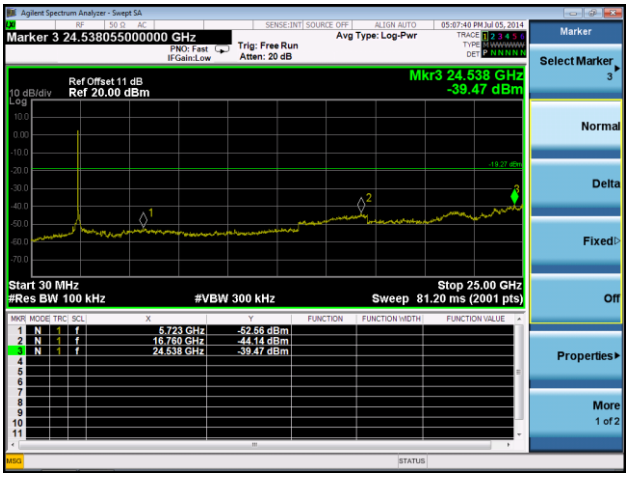
Channel 01 (2412MHz)

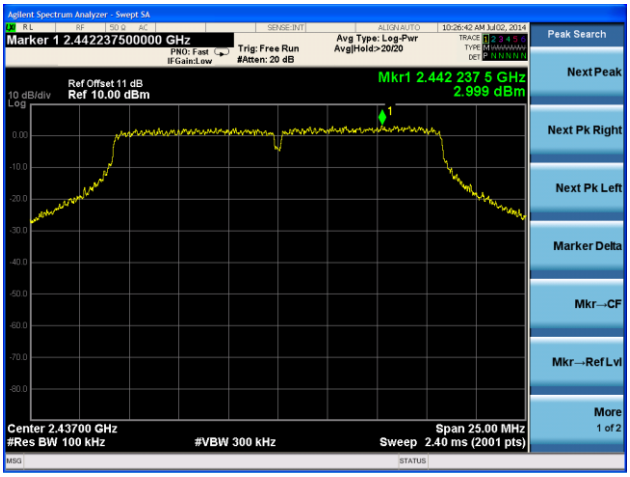
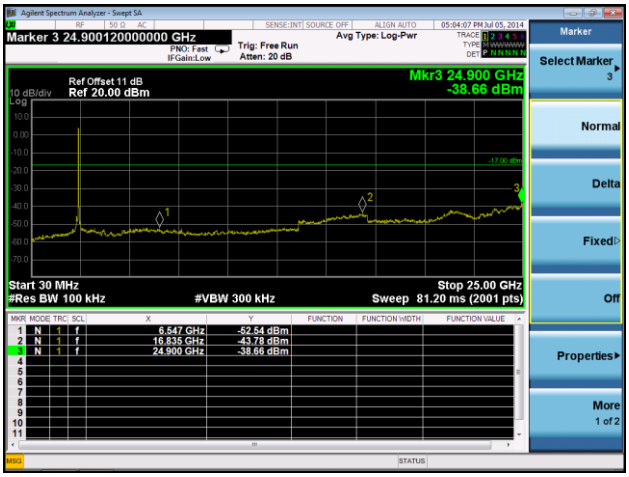
100kHz PSD Reference Level

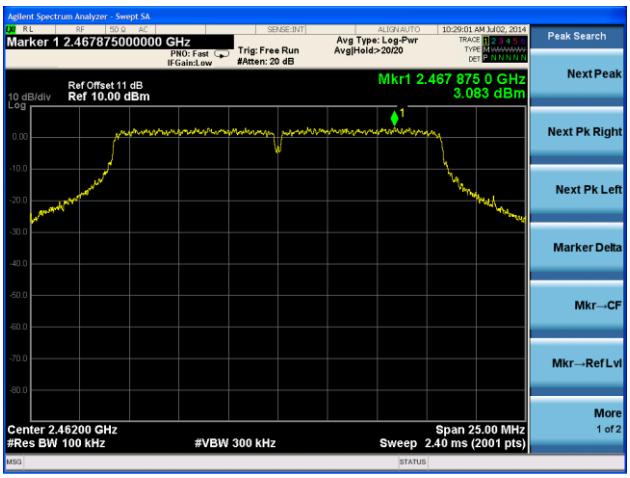
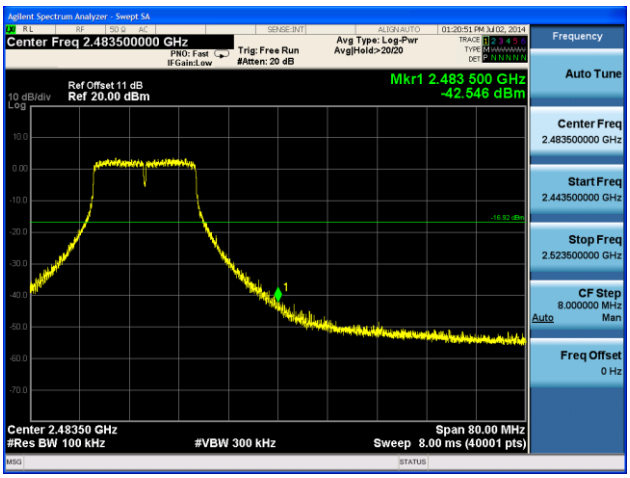


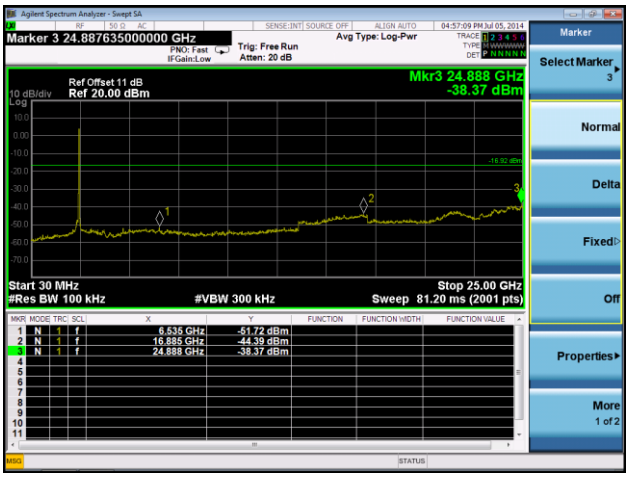
Low Band Edge

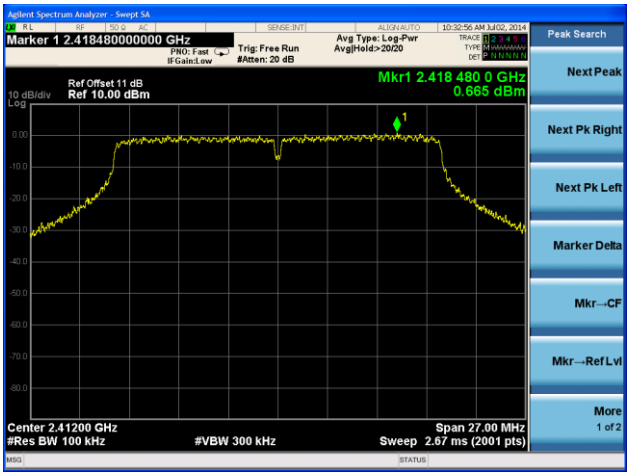
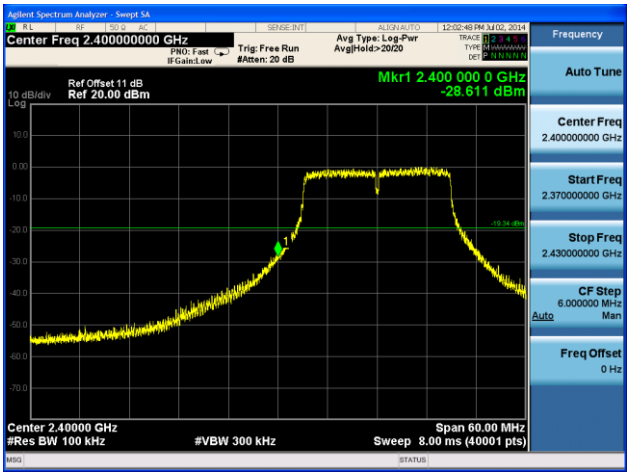


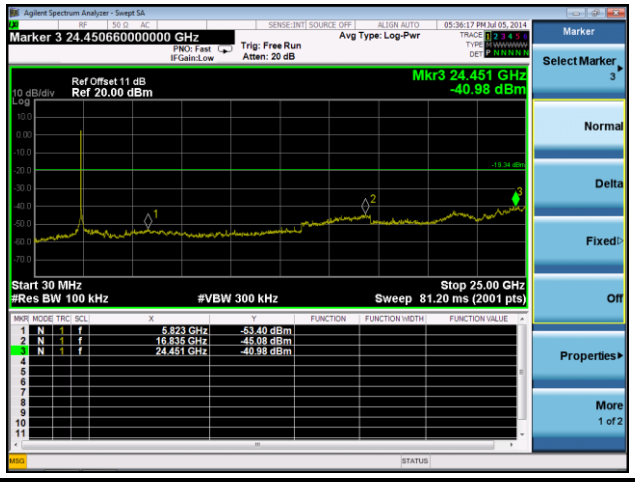
Spurious Emission	
	

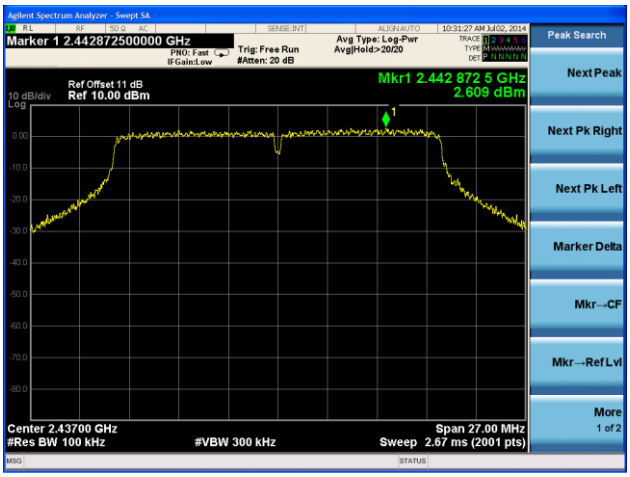
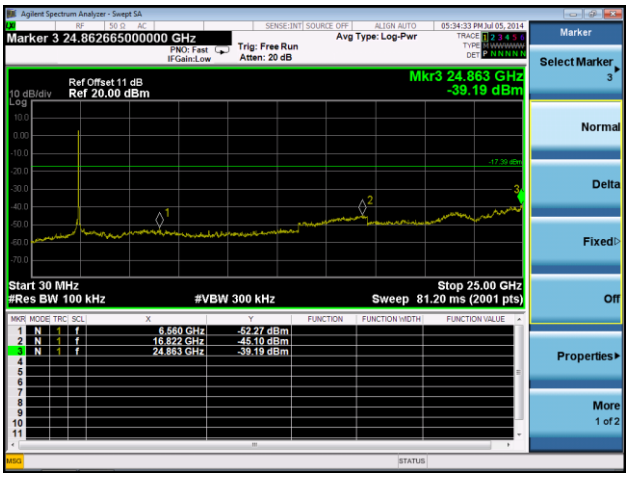
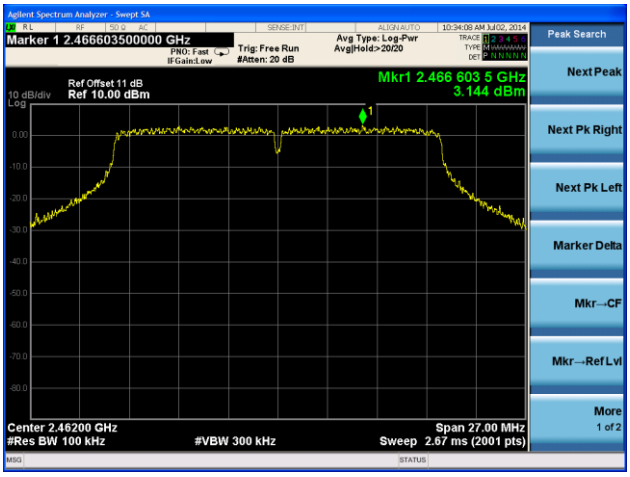
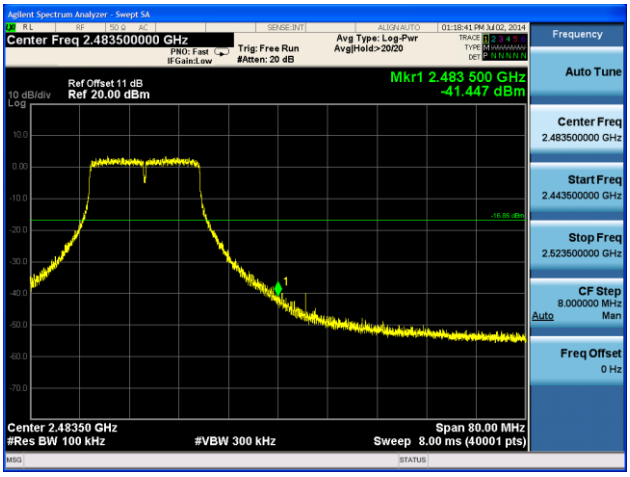
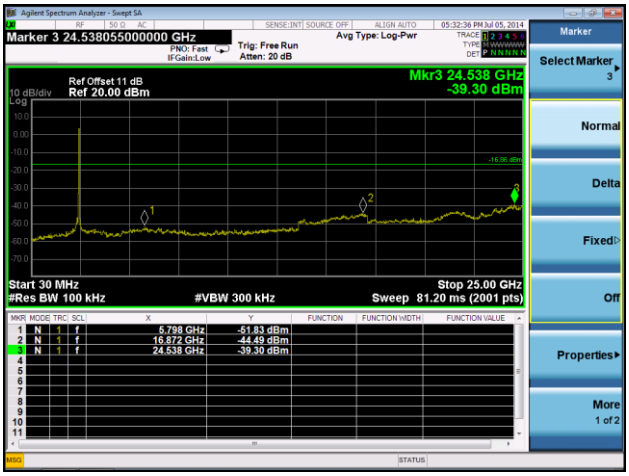
Channel 06 (2437MHz)	
100kHz PSD Reference Level	**Spurious Emission**
	

Channel 11 (2462MHz)	
100kHz PSD Reference Level	**High Band Edge**
	

Spurious Emission	
	

802.11n-HT20 Out-of-Band Emissions - Ant 0 / Ant 0 + 1	
Channel 01 (2412MHz)	
100kHz PSD Reference Level	Low Band Edge
	

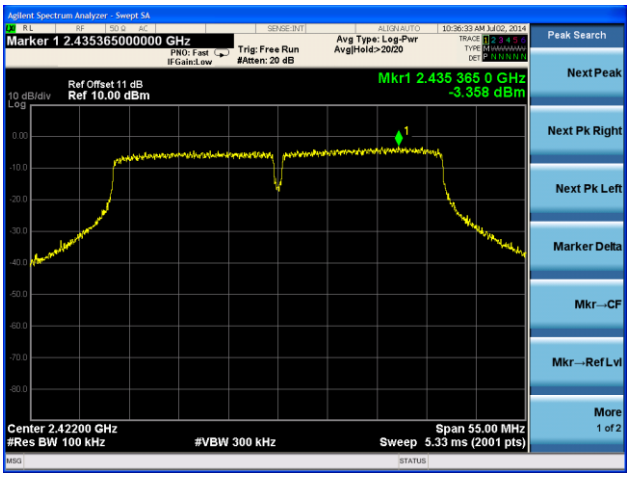
Spurious Emission	
	

Channel 06 (2437MHz)	
100kHz PSD Reference Level	**Spurious Emission**
	
Channel 11 (2462MHz)	
100kHz PSD Reference Level	**High Band Edge**
	
Spurious Emission	
	

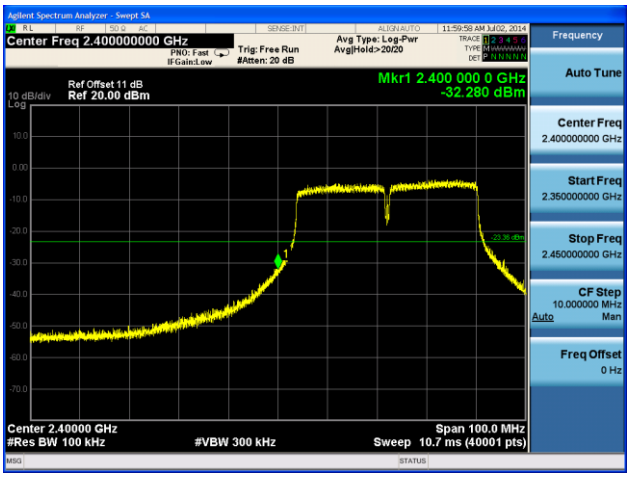
802.11n-HT40 Out-of-Band Emissions - Ant 0 / Ant 0 + 1

Channel 03 (2422MHz)

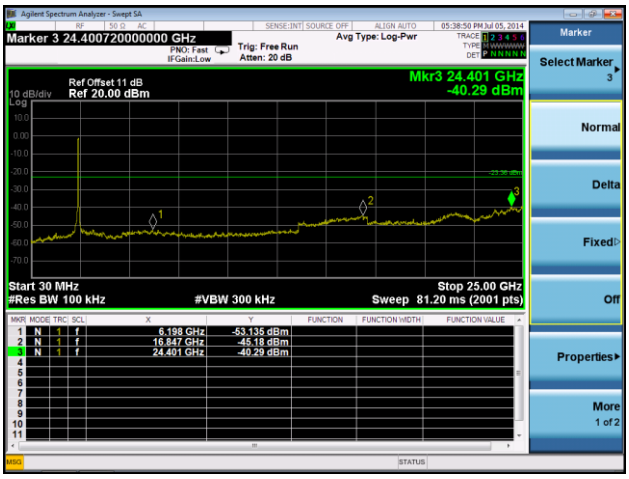
100kHz PSD Reference Level



Low Band Edge

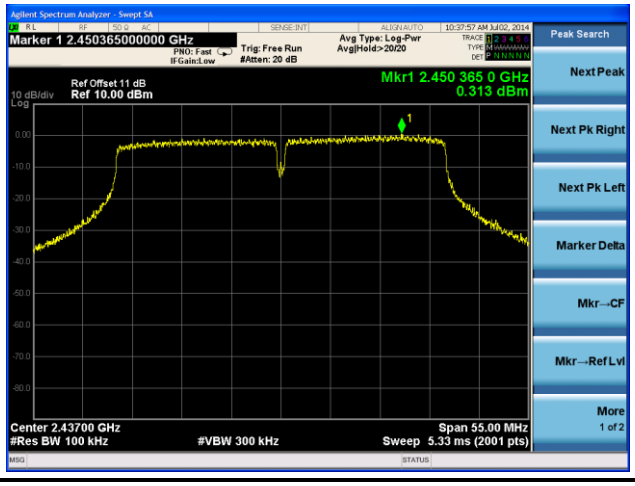


Spurious Emission

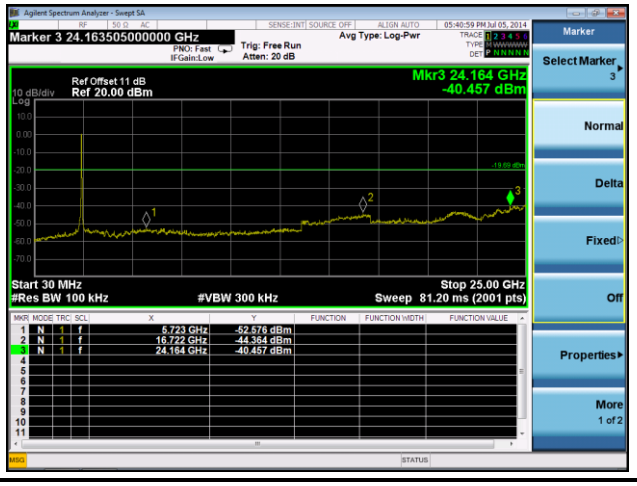


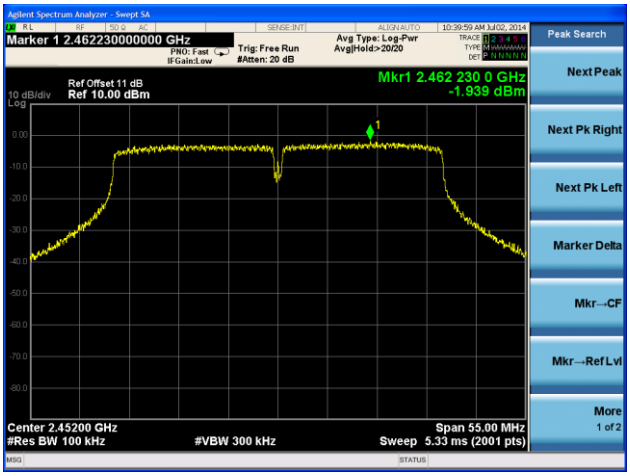
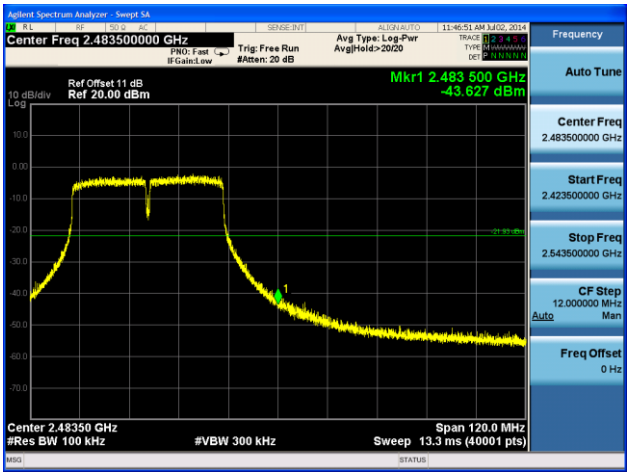
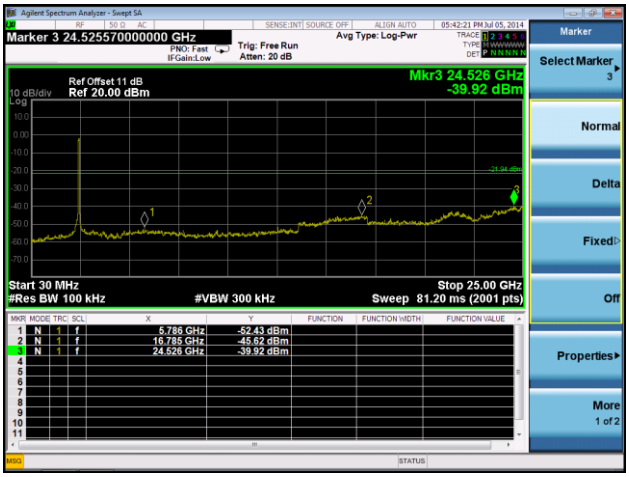
Channel 06 (2437MHz)

100kHz PSD Reference Level



Spurious Emission

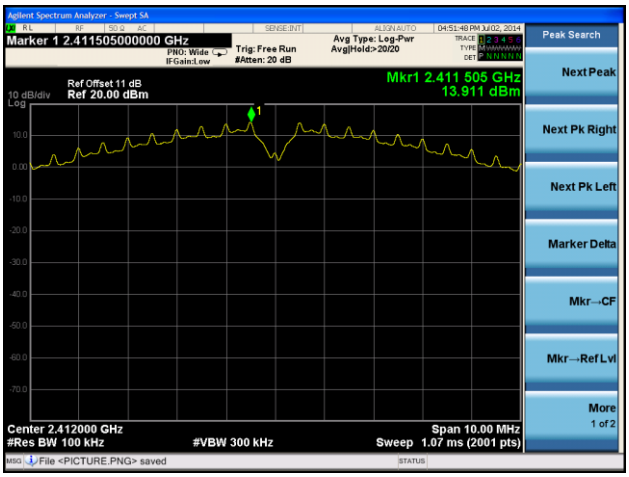


Channel 09 (2452MHz)	
100kHz PSD Reference Level	**High Band Edge**
	
Spurious Emission	
	

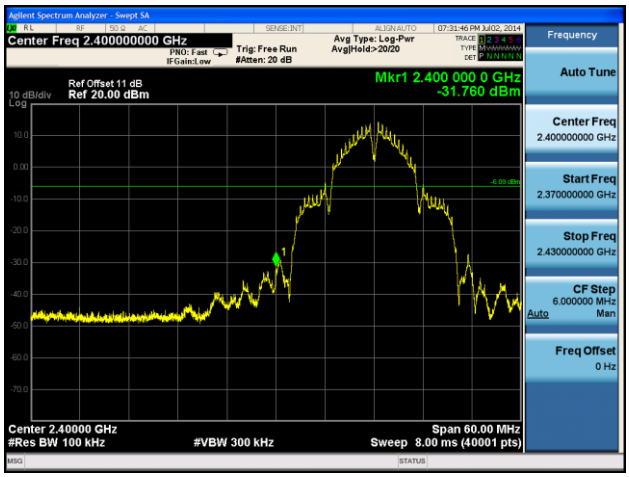
802.11b Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 01 (2412MHz)

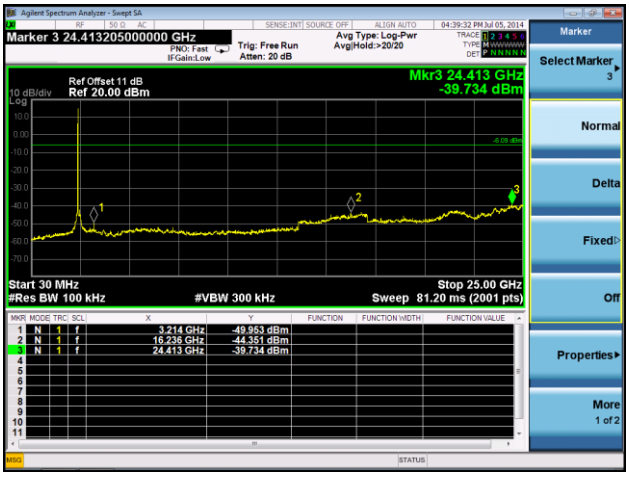
100kHz PSD Reference Level



Low Band Edge

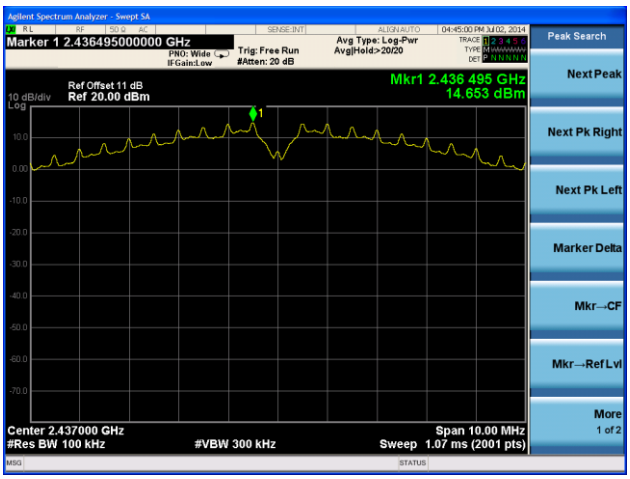


Spurious Emission

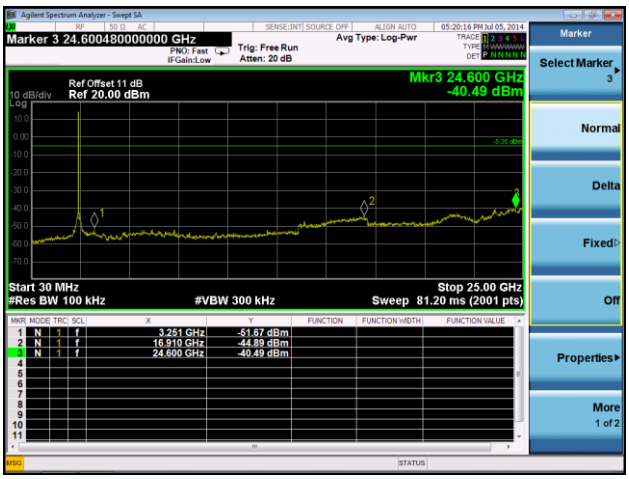


Channel 06 (2437MHz)

100kHz PSD Reference Level

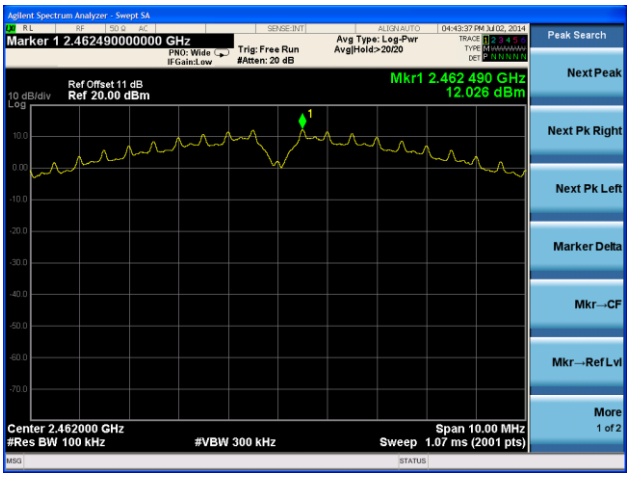


Spurious Emission

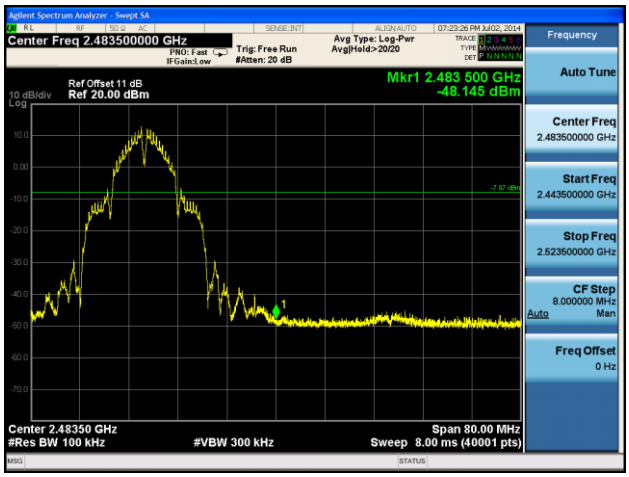


Channel 11 (2462MHz)

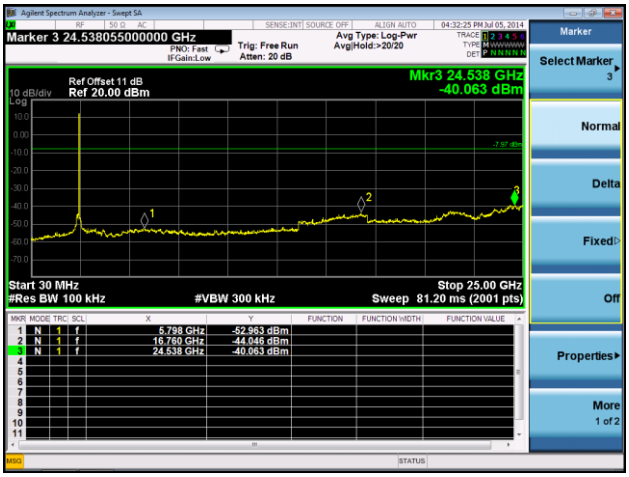
100kHz PSD Reference Level



High Band Edge



Spurious Emission

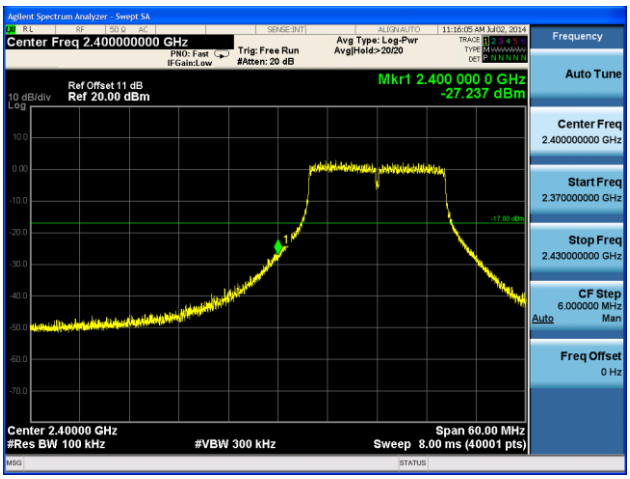


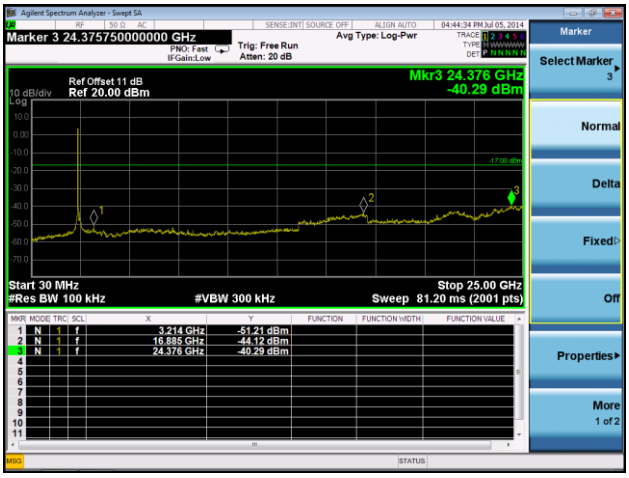
802.11g Out-of-Band Emissions - Ant 1 / Ant 0 + 1

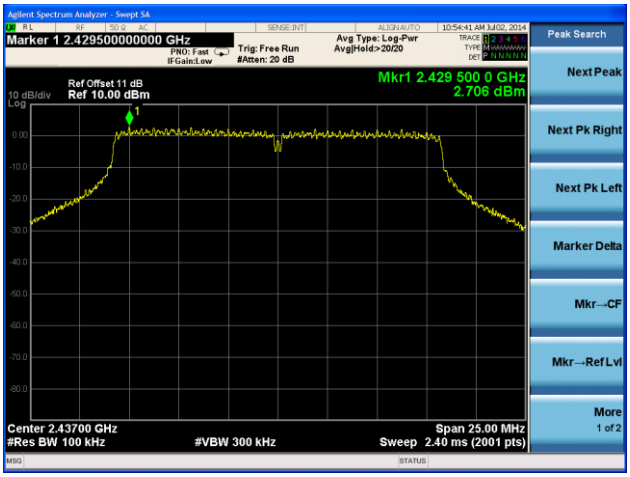
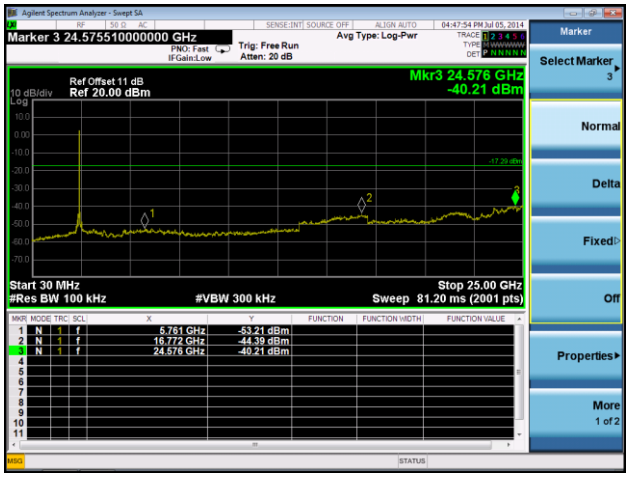
Channel 01 (2412MHz)

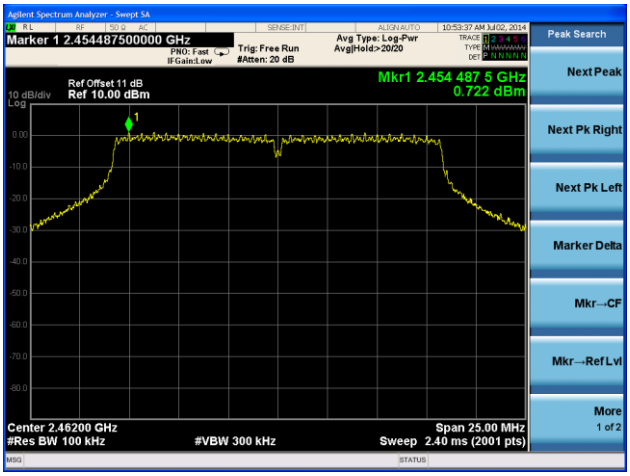
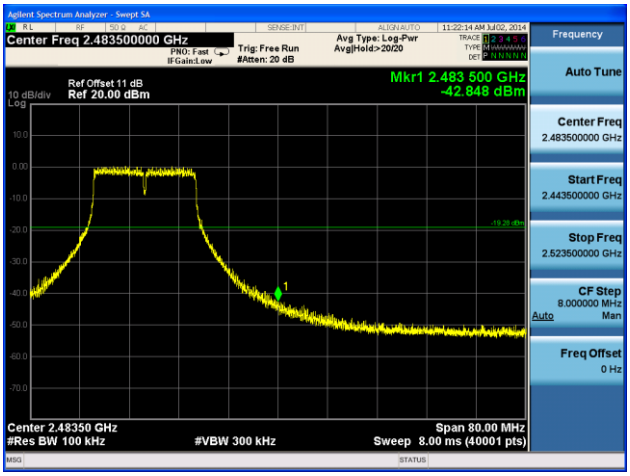
100kHz PSD Reference Level

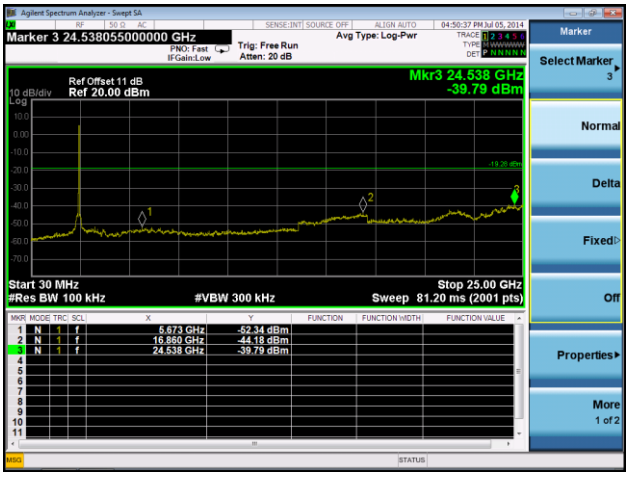
Low Band Edge

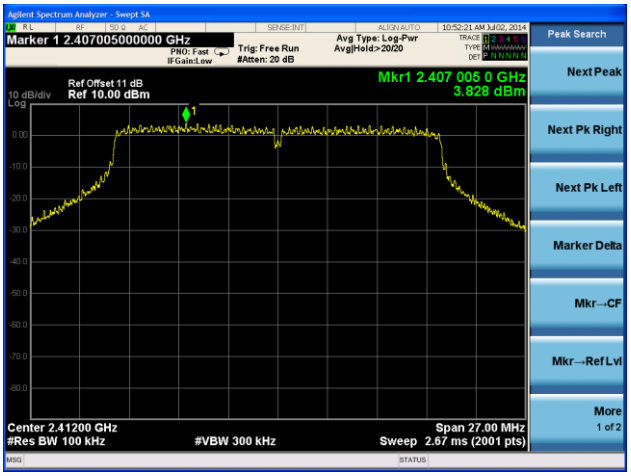
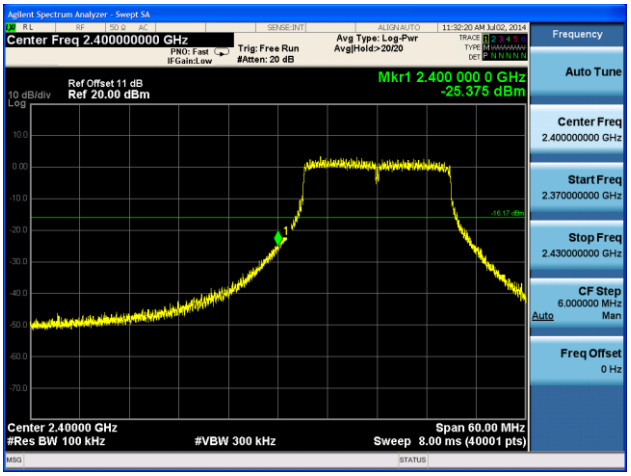


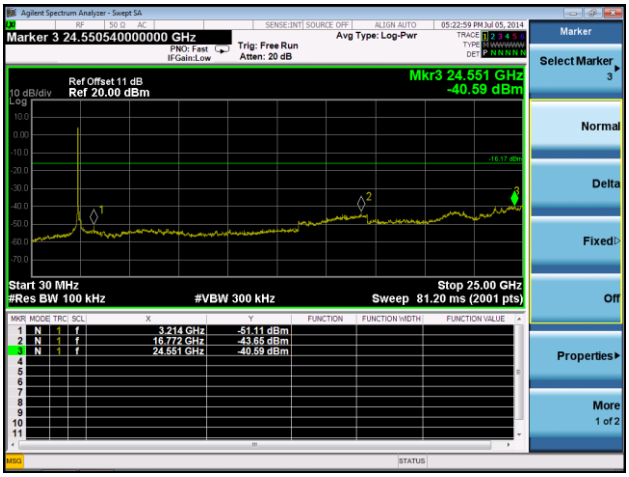
Spurious Emission	
	

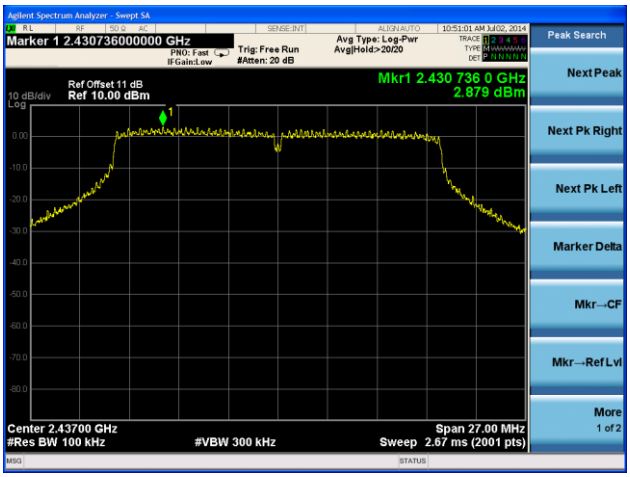
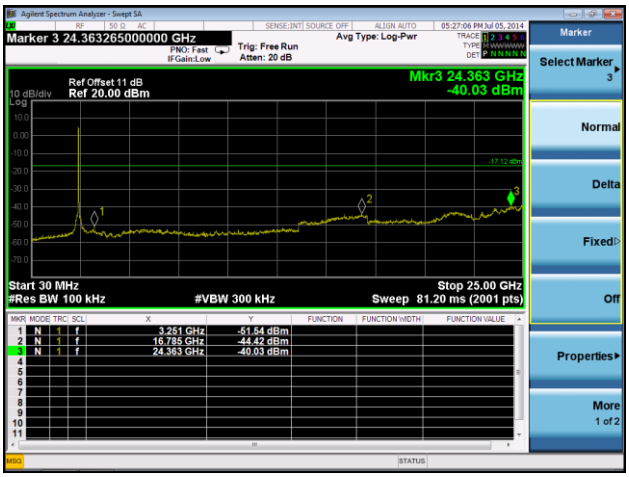
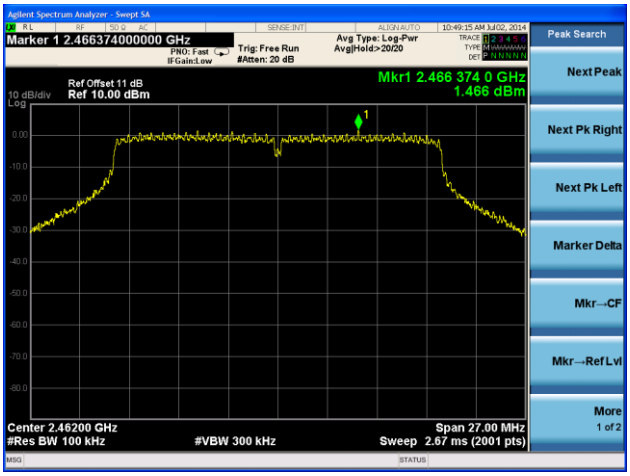
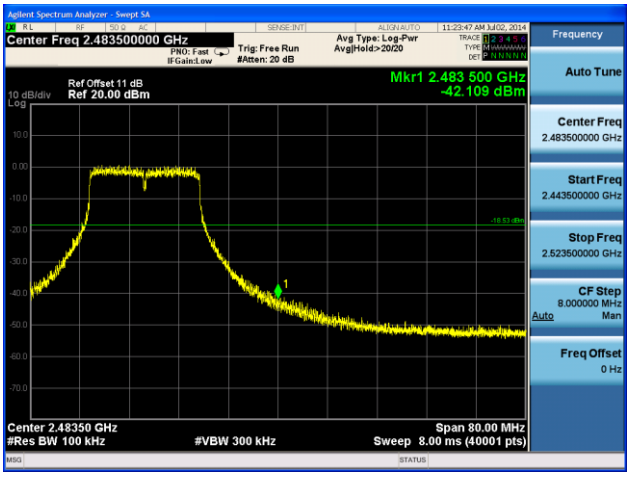
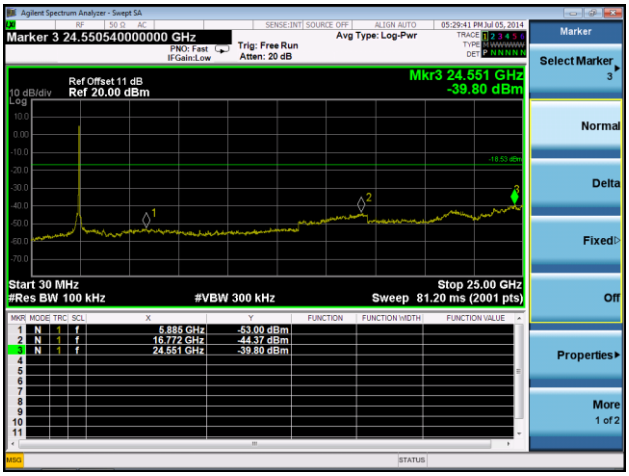
Channel 06 (2437MHz)	
100kHz PSD Reference Level	Spurious Emission
	

Channel 11 (2462MHz)	
100kHz PSD Reference Level	High Band Edge
	

Spurious Emission	
	

802.11n-HT20 Out-of-Band Emissions - Ant 1 / Ant 0 + 1	
Channel 01 (2412MHz)	
100kHz PSD Reference Level	Low Band Edge
	

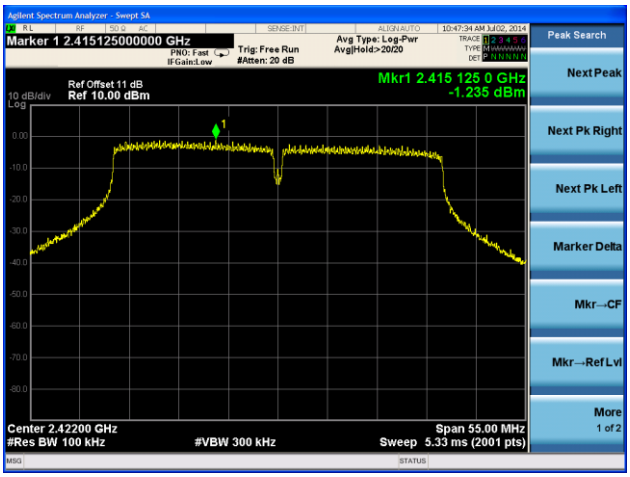
Spurious Emission	
	

Channel 06 (2437MHz)	
100kHz PSD Reference Level	**Spurious Emission**
	
Channel 11 (2462MHz)	
100kHz PSD Reference Level	**High Band Edge**
	
Spurious Emission	
	

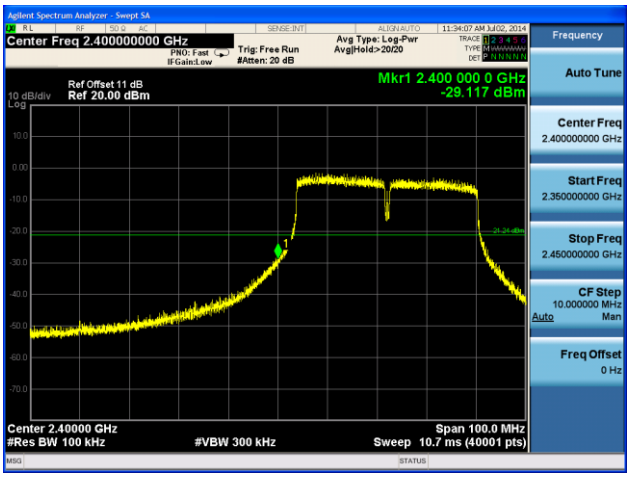
802.11n-HT40 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 03 (2422MHz)

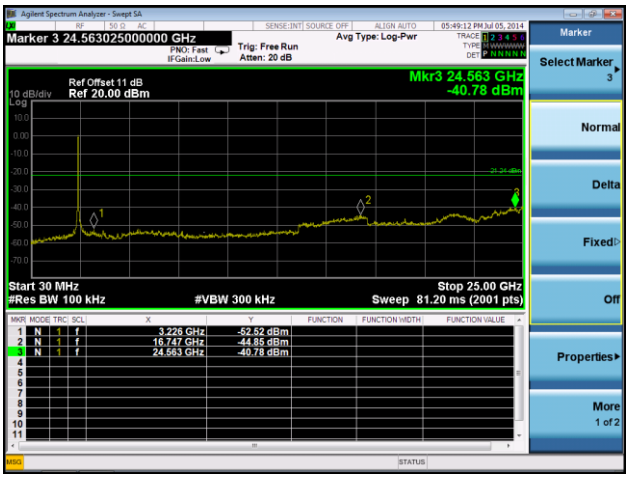
100kHz PSD Reference Level



Low Band Edge

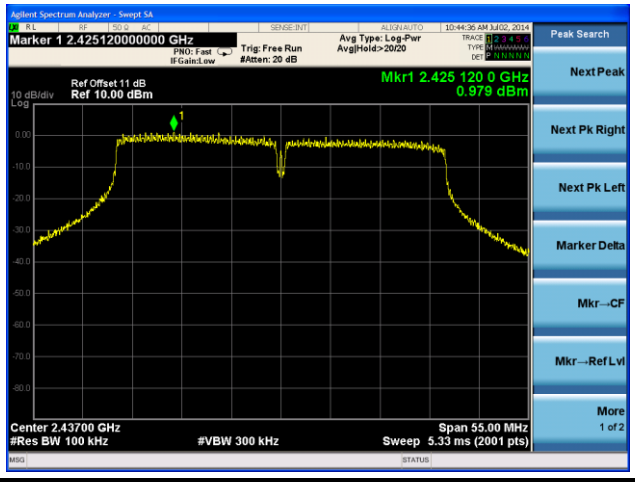


Spurious Emission

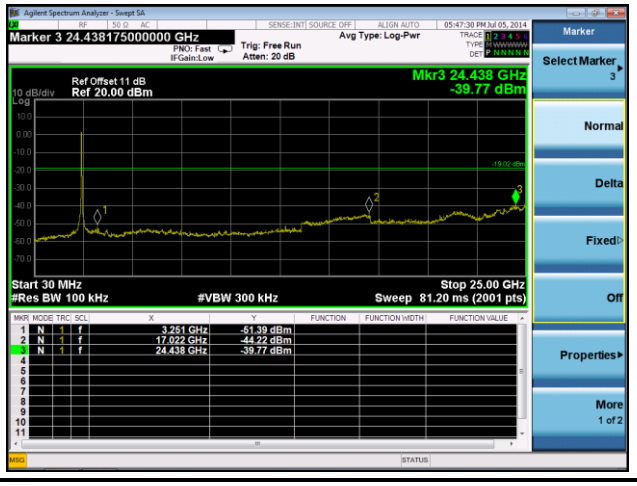


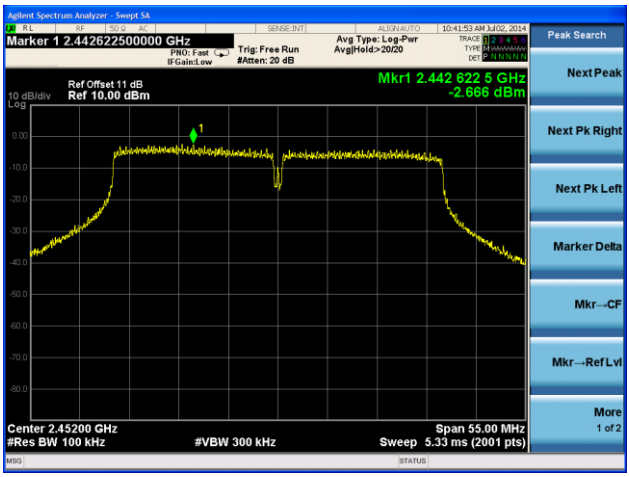
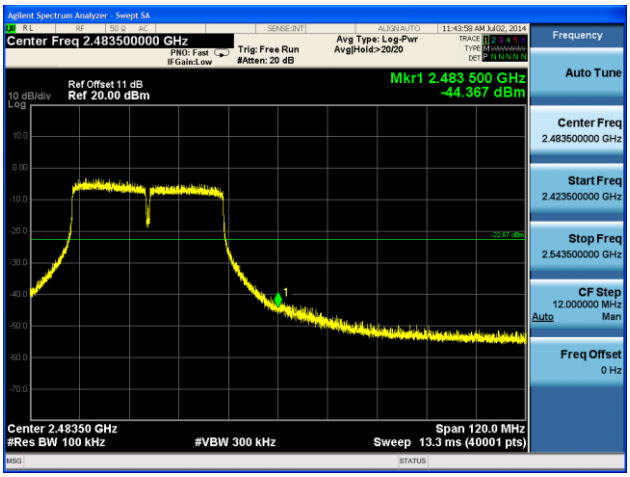
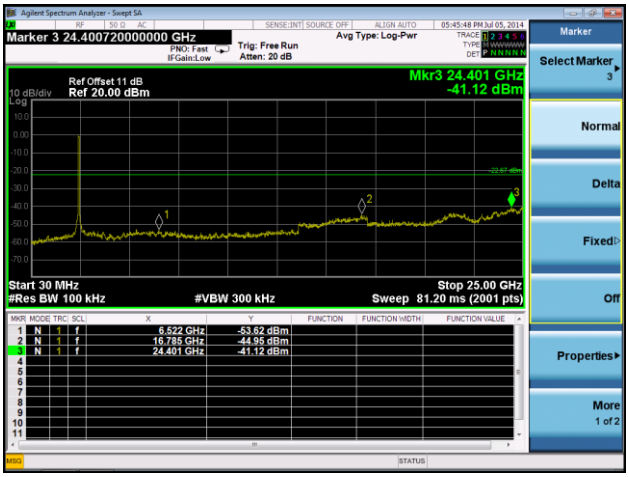
Channel 06 (2437MHz)

100kHz PSD Reference Level



Spurious Emission



Channel 09 (2452MHz)	
100kHz PSD Reference Level	**High Band Edge**
	
Spurious Emission	
	

7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 – 0.490	2400/F (kHz)	300
0.490 – 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.6.2. Test Procedure Used

KDB 558074 D01v03r02 – Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v03r02 – Section 12.2.4 (peak power measurements)

KDB 558074 D01v03r02 – Section 12.2.5 (average power measurements)

7.6.3. Test Setting

Peak Field Strength Measurements per Section 12.2.4 of KDB 558074 D01v03r02

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple

6. Trace mode = max hold
7. Trace was allowed to stabilize

Table 1—RBW as a function of frequency

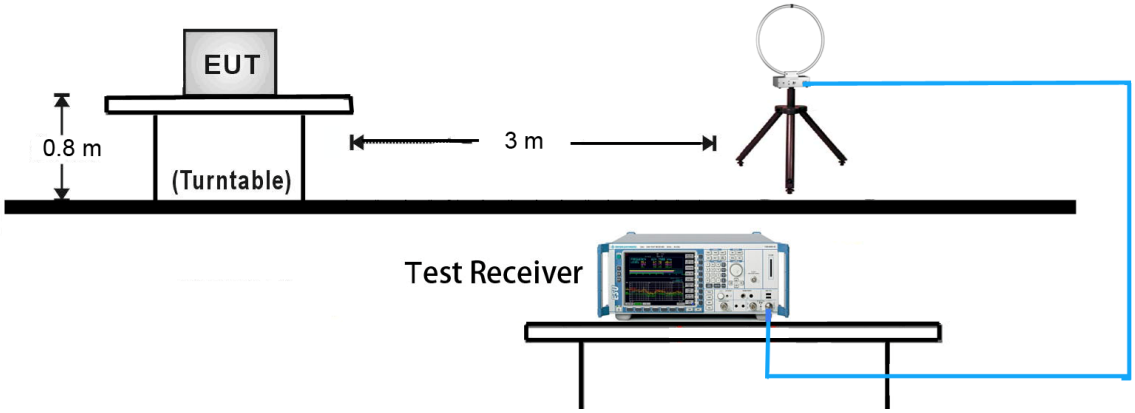
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements per Section 12.2.5.3 of KDB 558074 D01v03r02

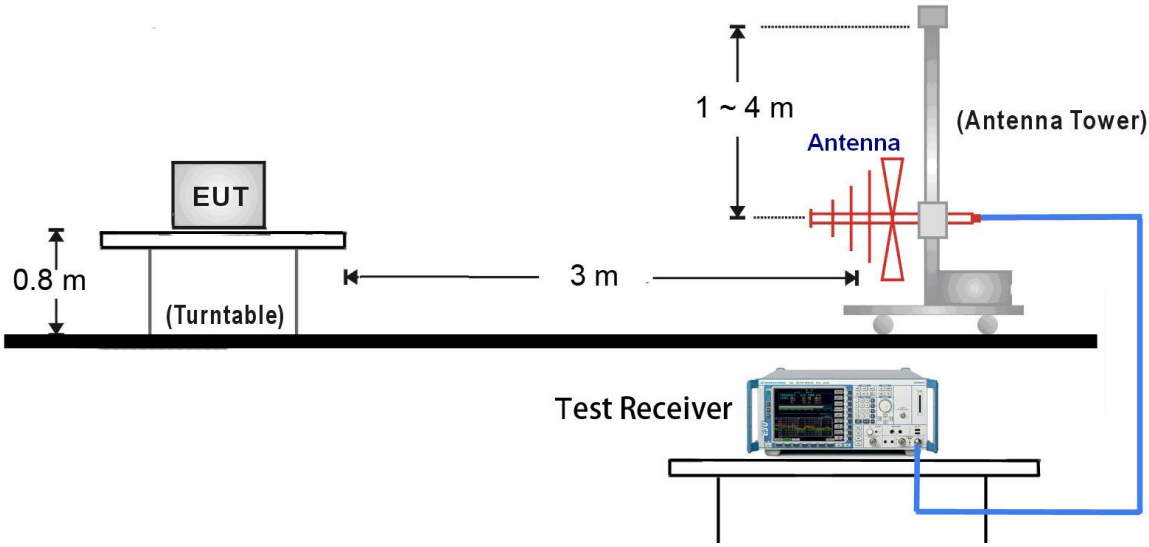
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW ≥ 1/T
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to “Voltage” regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.6.4. Test Setup

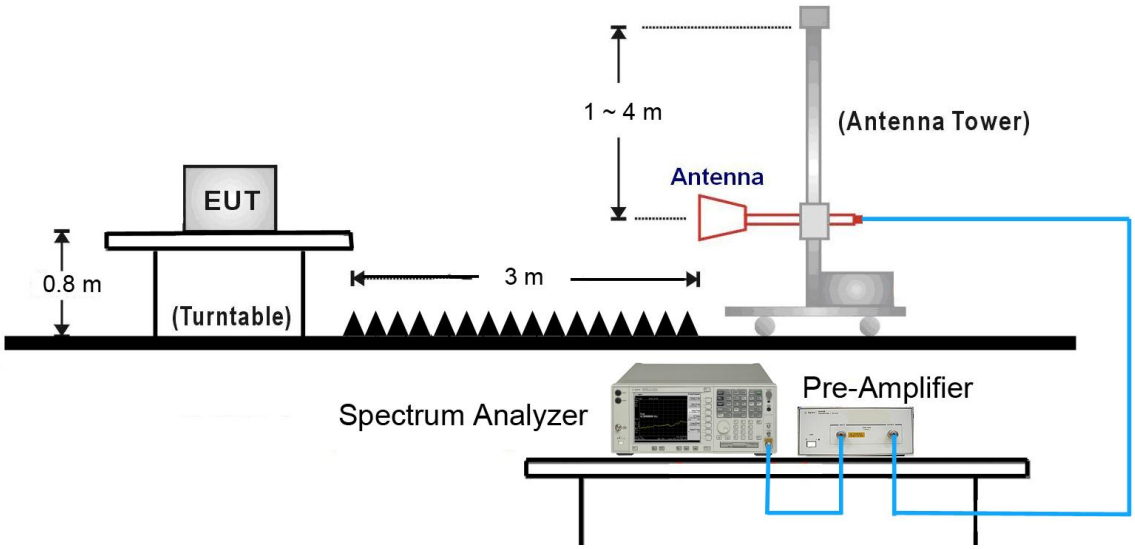
9kHz ~ 30MHz Test Setup:



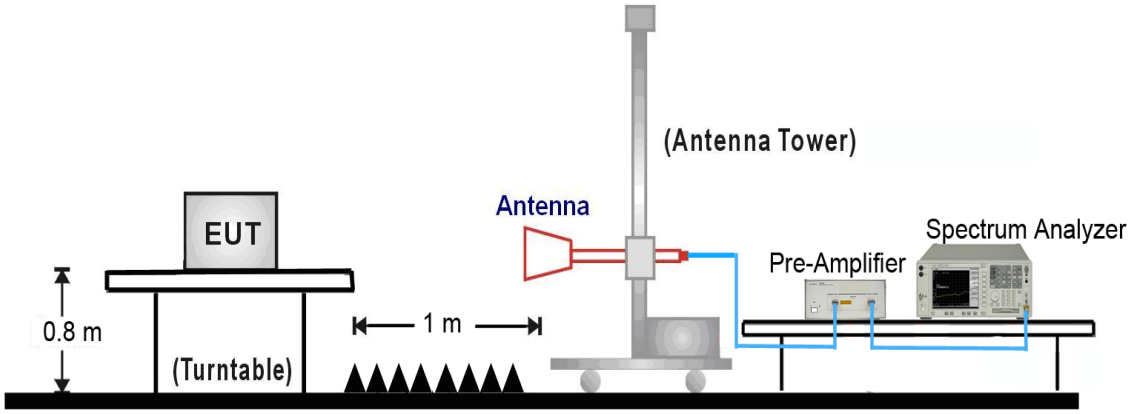
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~25GHz Test Setup:



7.6.5. Test Result

Test by Internal Antenna

Test Mode:	802.11b	Test Site:	AC1
Test Channel:	01	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3172.4	35.3	3.6	38.9	96.8	-57.9	Peak	Horizontal
*	4412.4	34.8	5.5	40.3	96.8	-56.5	Peak	Horizontal
	4825.0	41.4	6.4	47.8	74.0	-26.2	Peak	Horizontal
	7326.7	34.2	14.0	48.2	74.0	-25.8	Peak	Horizontal
*	3142.7	35.8	3.6	39.4	96.8	-57.4	Peak	Vertical
*	4408.7	36.3	5.5	41.8	96.8	-55.0	Peak	Vertical
	4825.0	44.0	6.4	50.4	74.0	-23.6	Peak	Vertical
	7300.2	34.6	14.0	48.6	74.0	-25.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (116.8dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11b	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3250.0	35.7	3.4	39.1	97.7	-58.6	Peak	Horizontal
*	3578.2	36.5	4.0	40.5	97.7	-57.2	Peak	Horizontal
	4876.0	38.3	6.6	44.9	74.0	-29.1	Peak	Horizontal
	7311.0	35.3	14.0	49.3	74.0	-24.7	Peak	Horizontal
*	3104.1	35.4	3.5	38.9	97.7	-58.8	Peak	Vertical
*	3579.1	35.3	4.0	39.3	97.7	-58.4	Peak	Vertical
	4876.0	41.2	6.6	47.8	74.0	-26.2	Peak	Vertical
	7311.0	34.0	14.0	48.0	74.0	-26.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (117.7dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11b	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3224.6	35.8	3.5	39.3	92.1	-52.8	Peak	Horizontal
*	3587.2	35.1	4.0	39.1	92.1	-53.0	Peak	Horizontal
	4924.0	34.9	6.7	41.6	74.0	-32.4	Peak	Horizontal
	7386.0	34.2	14.1	48.3	74.0	-25.7	Peak	Horizontal
*	3107.4	36.4	3.5	39.9	92.1	-52.2	Peak	Vertical
*	3591.2	35.3	4.0	39.3	92.1	-52.8	Peak	Vertical
	4927.0	37.7	6.7	44.4	74.0	-29.6	Peak	Vertical
	7386.0	34.2	14.1	48.3	74.0	-25.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (112.1dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11g	Test Site:	AC1
Test Channel:	01	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3175.7	35.9	3.6	39.5	93.8	-54.3	Peak	Horizontal
*	4402.7	35.1	5.5	40.6	93.8	-53.2	Peak	Horizontal
	4874.0	35.3	6.6	41.9	74.0	-32.1	Peak	Horizontal
	7365.5	34.3	14.0	48.3	74.0	-25.7	Peak	Horizontal
*	3240.3	35.8	3.4	39.2	93.8	-54.6	Peak	Vertical
*	4492.6	35.6	5.6	41.2	93.8	-52.6	Peak	Vertical
	4825.0	44.0	6.4	50.4	74.0	-23.6	Peak	Vertical
	7253.5	35.8	13.9	49.7	74.0	-24.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (113.8dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11g	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3283.7	35.3	3.3	38.6	93.8	-55.2	Peak	Horizontal
*	4423.7	35.6	5.5	41.1	93.8	-52.7	Peak	Horizontal
	4874.0	35.9	6.6	42.5	74.0	-31.5	Peak	Horizontal
	7311.0	35.2	14.0	49.2	74.0	-24.8	Peak	Horizontal
*	3240.5	35.1	3.4	38.5	93.8	-55.3	Peak	Vertical
*	4402.6	34.6	5.5	40.1	93.8	-53.7	Peak	Vertical
	4876.0	39.4	6.6	46.0	74.0	-28.0	Peak	Vertical
	7311.0	35.5	14.0	49.5	74.0	-24.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (113.8dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11g	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3215.6	36.0	3.5	39.5	93.8	-54.3	Peak	Horizontal
*	4493.4	36.2	5.6	41.8	93.8	-52.0	Peak	Horizontal
	4924.0	35.1	6.7	41.8	74.0	-32.2	Peak	Horizontal
	7386.0	35.6	14.1	49.7	74.0	-24.3	Peak	Horizontal
*	3196.4	35.8	3.5	39.3	93.8	-54.5	Peak	Vertical
*	4402.7	35.1	5.5	40.6	93.8	-53.2	Peak	Vertical
	4927.0	38.4	6.7	45.1	74.0	-28.9	Peak	Vertical
	7386.0	34.4	14.1	48.5	74.0	-25.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (113.8dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT20	Test Site:	AC1
Test Channel:	01	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3202.6	35.9	3.5	39.4	92.4	-53.0	Peak	Horizontal
*	4423.4	35.7	5.5	41.2	92.4	-51.2	Peak	Horizontal
	4825.0	38.1	6.4	44.5	74.0	-29.5	Peak	Horizontal
	7236.0	35.4	13.8	49.2	74.0	-24.8	Peak	Horizontal
*	3152.5	35.7	3.6	39.3	92.4	-53.1	Peak	Vertical
*	4426.7	35.2	5.5	40.7	92.4	-51.7	Peak	Vertical
	4816.5	40.8	6.4	47.2	74.0	-26.8	Peak	Vertical
	7236.0	36.1	13.8	49.9	74.0	-24.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (112.4dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT20	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3142.4	36.4	3.6	40.0	92.8	-52.8	Peak	Horizontal
*	4412.4	35.6	5.5	41.1	92.8	-51.7	Peak	Horizontal
	4874.0	35.2	6.6	41.8	74.0	-32.2	Peak	Horizontal
	7311.0	35.1	14.0	49.1	74.0	-24.9	Peak	Horizontal
*	3172.6	35.7	3.6	39.3	92.8	-53.5	Peak	Vertical
*	4420.4	35.4	5.5	40.9	92.8	-51.9	Peak	Vertical
	4867.5	38.5	6.6	45.1	74.0	-28.9	Peak	Vertical
	7213.5	37.1	13.7	50.8	74.0	-23.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (112.8dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT20	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3102.5	35.5	3.5	39.0	92.8	-53.8	Peak	Horizontal
*	4409.5	35.3	5.5	40.8	92.8	-52.0	Peak	Horizontal
	4924.0	35.4	6.7	42.1	74.0	-31.9	Peak	Horizontal
	7386.0	34.0	14.1	48.1	74.0	-25.9	Peak	Horizontal
*	3256.6	36.1	3.3	39.4	92.8	-53.4	Peak	Vertical
*	4472.6	35.4	5.6	41.0	92.8	-51.8	Peak	Vertical
	4927.0	37.3	6.7	44.0	74.0	-30.0	Peak	Vertical
	7386.0	34.0	14.1	48.1	74.0	-25.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (112.8dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT40	Test Site:	AC1
Test Channel:	03	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3185.4	35.9	3.6	39.5	88.7	-49.2	Peak	Horizontal
*	4412.0	35.4	5.5	40.9	88.7	-47.8	Peak	Horizontal
	4844.0	34.8	6.5	41.3	74.0	-32.7	Peak	Horizontal
	7266.0	35.3	13.9	49.2	74.0	-24.8	Peak	Horizontal
*	3282.7	34.9	3.3	38.2	88.7	-50.5	Peak	Vertical
*	4412.0	35.2	5.5	40.7	88.7	-48.0	Peak	Vertical
	4844.0	35.3	6.5	41.8	74.0	-32.2	Peak	Vertical
	7266.0	34.4	13.9	48.3	74.0	-25.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (108.7dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT40	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3102.5	35.8	3.5	39.3	87.1	-47.8	Peak	Horizontal
*	4420.4	35.2	5.5	40.7	87.1	-46.4	Peak	Horizontal
	4874.0	35.6	6.6	42.2	74.0	-31.8	Peak	Horizontal
	7311.0	34.6	14.0	48.6	74.0	-25.4	Peak	Horizontal
*	3183.6	36.1	3.6	39.7	87.1	-47.4	Peak	Vertical
*	4402.4	34.8	5.5	40.3	87.1	-46.8	Peak	Vertical
	4874.0	36.3	6.6	42.9	74.0	-31.1	Peak	Vertical
	7311.0	34.7	14.0	48.7	74.0	-25.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (107.1dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT40	Test Site:	AC1
Test Channel:	09	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3305.5	35.2	3.2	38.4	86.8	-48.4	Peak	Horizontal
*	4403.7	35.0	5.5	40.5	86.8	-46.3	Peak	Horizontal
	4904.0	35.7	6.7	42.4	74.0	-31.6	Peak	Horizontal
	7356.0	34.6	14.0	48.6	74.0	-25.4	Peak	Horizontal
*	3125.6	36.1	3.6	39.7	86.8	-47.1	Peak	Vertical
*	4402.7	35.1	5.5	40.6	86.8	-46.2	Peak	Vertical
	4904.0	35.7	6.7	42.4	74.0	-31.6	Peak	Vertical
	7356.0	34.8	14.0	48.8	74.0	-25.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (106.8dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test by External Antenna

Test Mode:	802.11b	Test Site:	AC1
Test Channel:	01	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3158.5	35.7	3.6	39.3	96.1	-56.8	Peak	Horizontal
*	3587.6	35.1	4.0	39.1	96.1	-57.0	Peak	Horizontal
	4816.5	38.5	6.4	44.9	74.0	-29.1	Peak	Horizontal
	7256.0	35.3	13.9	49.2	74.0	-24.8	Peak	Horizontal
*	3274.5	35.4	3.3	38.7	96.1	-57.4	Peak	Vertical
*	3528.0	34.9	4.0	38.9	96.1	-57.2	Peak	Vertical
	4825.0	40.1	6.4	46.5	74.0	-27.5	Peak	Vertical
	7256.0	35.6	13.9	49.5	74.0	-24.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (116.1dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11b	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3193.1	35.4	3.6	39.0	96.7	-57.7	Peak	Horizontal
*	3584.8	35.5	4.0	39.5	96.7	-57.2	Peak	Horizontal
	4874.0	35.5	6.6	42.1	74.0	-31.9	Peak	Horizontal
	7311.0	34.0	14.0	48.0	74.0	-26.0	Peak	Horizontal
*	3259.4	36.1	3.3	39.4	96.7	-57.3	Peak	Vertical
*	3574.1	36.0	4.0	40.0	96.7	-56.7	Peak	Vertical
	4874.0	36.3	6.6	42.9	74.0	-31.1	Peak	Vertical
	7311.0	34.8	14.0	48.8	74.0	-25.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (116.7dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11b	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3167.5	34.6	3.6	38.2	93.1	-54.9	Peak	Horizontal
*	4474.4	36.1	5.6	41.7	93.1	-51.4	Peak	Horizontal
	4924.0	35.7	6.7	42.4	74.0	-31.6	Peak	Horizontal
	7386.0	34.8	14.1	48.9	74.0	-25.1	Peak	Horizontal
*	3194.8	35.5	3.6	39.1	93.1	-54.0	Peak	Vertical
*	3569.7	34.9	4.0	38.9	93.1	-54.2	Peak	Vertical
	4924.0	36.5	6.7	43.2	74.0	-30.8	Peak	Vertical
	7386.0	34.7	14.1	48.8	74.0	-25.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (113.1dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11g	Test Site:	AC1
Test Channel:	01	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3383.7	34.9	3.2	38.1	92.1	-54.0	Peak	Horizontal
*	4417.2	34.8	5.5	40.3	92.1	-51.8	Peak	Horizontal
	4816.5	38.1	6.4	44.5	74.0	-29.5	Peak	Horizontal
	7256.0	35.3	13.9	49.2	74.0	-24.8	Peak	Horizontal
*	3140.0	34.9	3.6	38.5	92.1	-53.6	Peak	Vertical
*	3544.9	35.6	4.0	39.6	92.1	-52.5	Peak	Vertical
	4816.5	40.2	6.4	46.6	74.0	-27.4	Peak	Vertical
	7256.0	35.1	13.9	49.0	74.0	-25.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (112.1dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11g	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3014.5	37.1	3.4	40.5	92.2	-51.7	Peak	Horizontal
*	3586.1	35.7	4.0	39.7	92.2	-52.5	Peak	Horizontal
	4874.0	35.4	6.6	42.0	74.0	-32.0	Peak	Horizontal
	7311.0	34.7	14.0	48.7	74.0	-25.3	Peak	Horizontal
*	3014.0	35.1	3.4	38.5	92.2	-53.7	Peak	Vertical
*	3598.4	35.0	4.0	39.0	92.2	-53.2	Peak	Vertical
	4876.0	39.4	6.6	46.0	74.0	-28.0	Peak	Vertical
	7311.0	34.7	14.0	48.7	74.0	-25.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (112.2dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11g	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3104.3	36.1	3.5	39.6	92.1	-52.5	Peak	Horizontal
*	3586.7	35.5	4.0	39.5	92.1	-52.6	Peak	Horizontal
	4924.0	35.5	6.7	42.2	74.0	-31.8	Peak	Horizontal
	7386.0	34.3	14.1	48.4	74.0	-25.6	Peak	Horizontal
*	3144.1	35.4	3.6	39.0	92.1	-53.1	Peak	Vertical
*	3597.6	35.3	4.0	39.3	92.1	-52.8	Peak	Vertical
	4924.0	35.5	6.7	42.2	74.0	-31.8	Peak	Vertical
	7386.0	34.4	14.1	48.5	74.0	-25.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (112.1dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT20	Test Site:	AC1
Test Channel:	01	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3157.6	36.3	3.6	39.9	91.0	-51.1	Peak	Horizontal
*	3589.2	35.7	4.0	39.7	91.0	-51.3	Peak	Horizontal
	4824.0	36.3	6.4	42.7	74.0	-31.3	Peak	Horizontal
	7256.0	36.0	13.9	49.9	74.0	-24.1	Peak	Horizontal
*	3014.2	34.9	3.4	38.3	91.0	-52.7	Peak	Vertical
*	3567.2	34.8	4.1	38.9	91.0	-52.1	Peak	Vertical
	4825.0	40.2	6.4	46.6	74.0	-27.4	Peak	Vertical
	7256.0	36.0	13.9	49.9	74.0	-24.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (111.0dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT20	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3188.1	35.7	3.6	39.3	91.3	-52.0	Peak	Horizontal
*	3594.3	35.0	4.0	39.0	91.3	-52.3	Peak	Horizontal
	4874.0	35.2	6.6	41.8	74.0	-32.2	Peak	Horizontal
	7311.0	34.2	14.0	48.2	74.0	-25.8	Peak	Horizontal
*	3162.2	35.2	3.6	38.8	91.3	-52.5	Peak	Vertical
*	3588.4	35.0	4.0	39.0	91.3	-52.3	Peak	Vertical
	4874.0	36.0	6.6	42.6	74.0	-31.4	Peak	Vertical
	7311.0	34.5	14.0	48.5	74.0	-25.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (111.3dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)

Test Mode:	802.11n-HT20	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
*	3137.4	35.7	3.6	39.3	91.3	-52.0	Peak	Horizontal
*	3592.7	36.4	4.0	40.4	91.3	-50.9	Peak	Horizontal
	4924.0	35.0	6.7	41.7	74.0	-32.3	Peak	Horizontal
	7386.0	34.2	14.1	48.3	74.0	-25.7	Peak	Horizontal
*	3029.1	35.5	3.4	38.9	91.3	-52.4	Peak	Vertical
*	3528.6	35.1	4.0	39.1	91.3	-52.2	Peak	Vertical
	4927.0	36.5	6.7	43.2	74.0	-30.8	Peak	Vertical
	7386.0	34.4	14.1	48.5	74.0	-25.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (111.3dBμV/m).

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) – Pre_Amplifier Gain (dB)