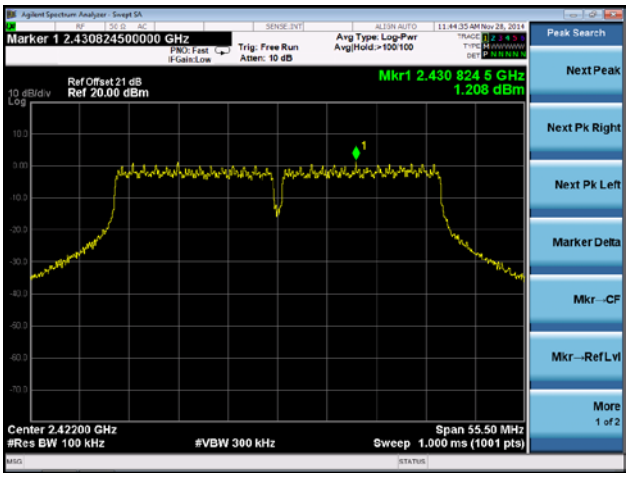
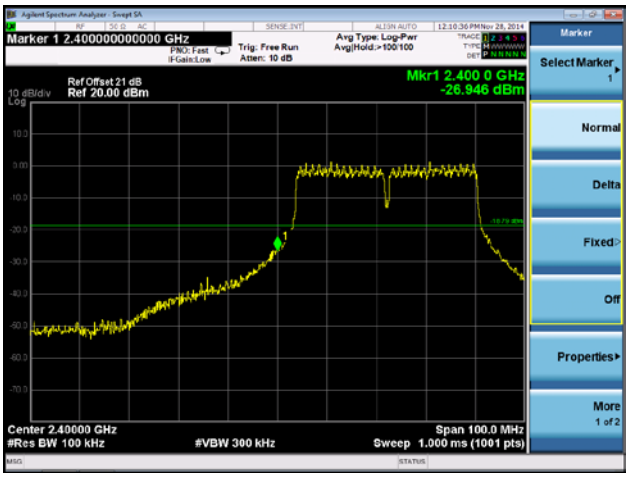
802.11n-HT40 Out-of-Band Emissions - Ant 0 / Ant 0 + 1

Channel 03 (2422MHz)

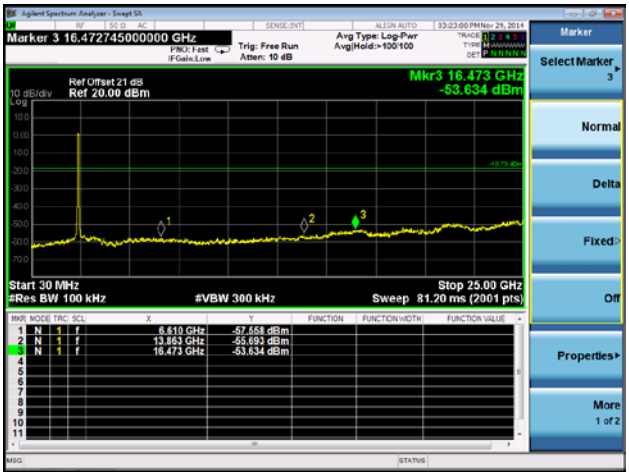
100kHz PSD Reference Level



Low Band Edge

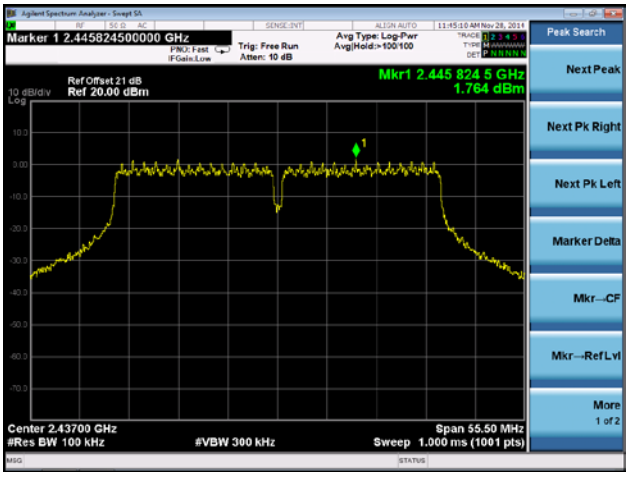


Spurious Emission

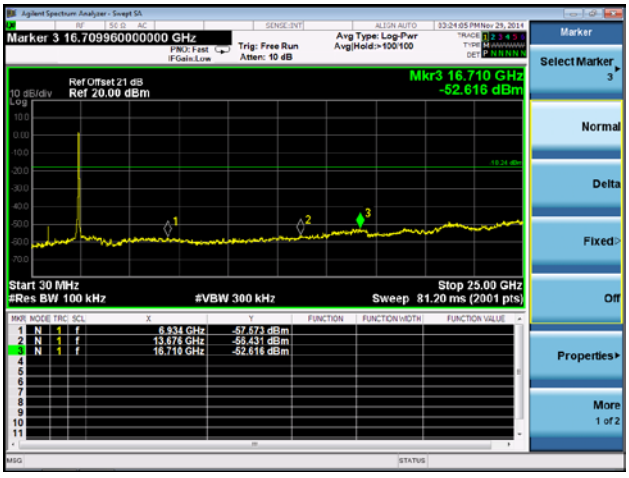


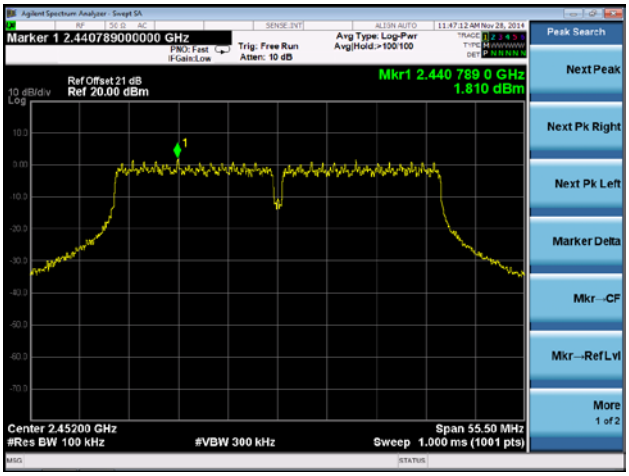
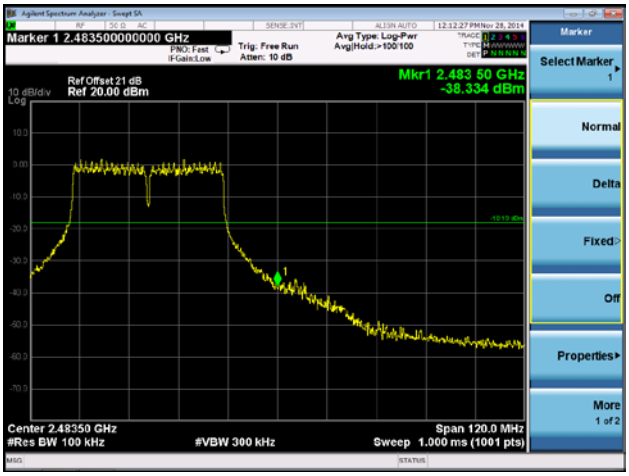
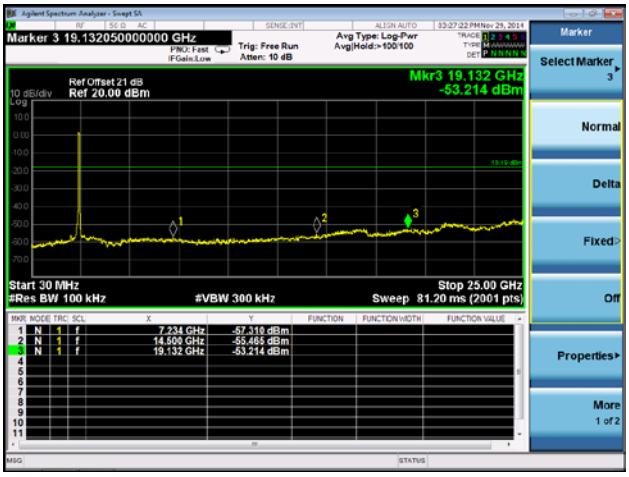
Channel 06 (2437MHz)

100kHz PSD Reference Level



Spurious Emission



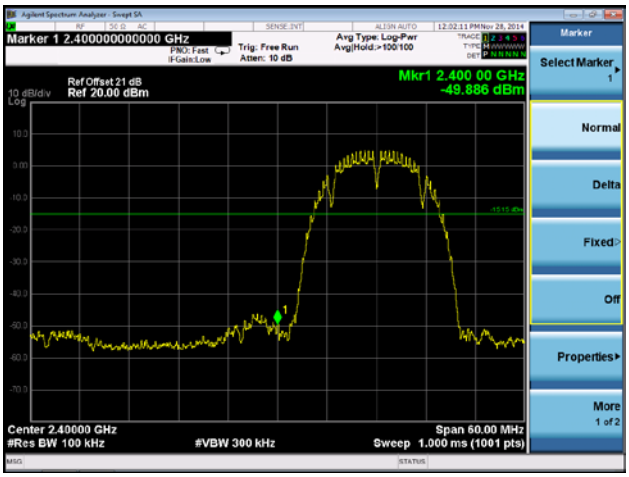
Channel 09 (2452MHz)	
100kHz PSD Reference Level	**High Band Edge**
	
Spurious Emission	
	

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

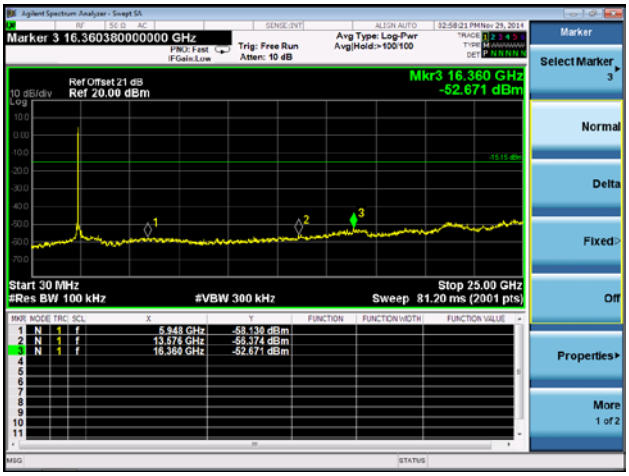
Channel 01 (2412MHz)

100kHz PSD Reference Level

Low Band Edge

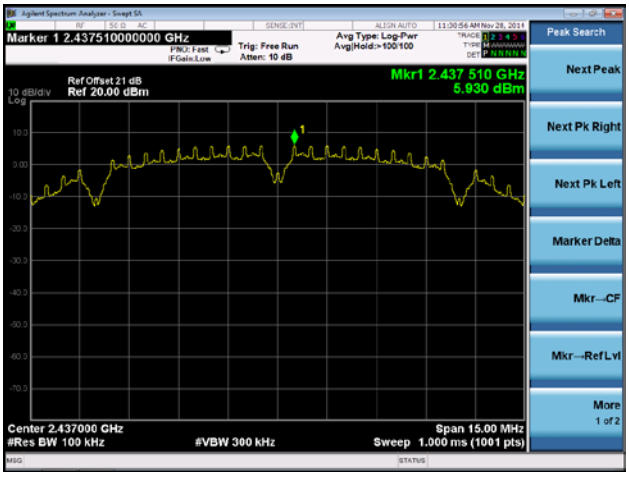


Spurious Emission

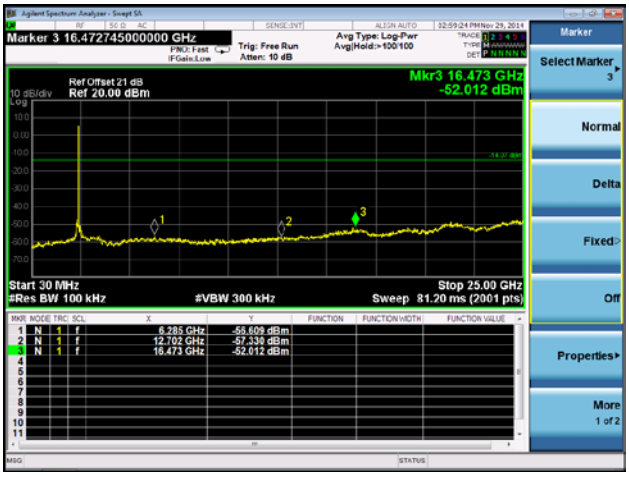


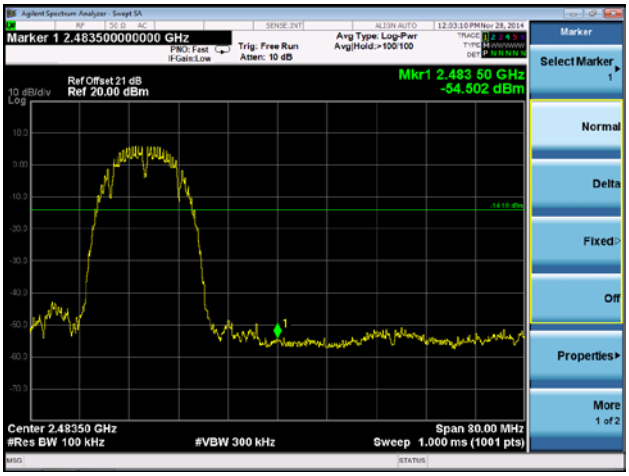
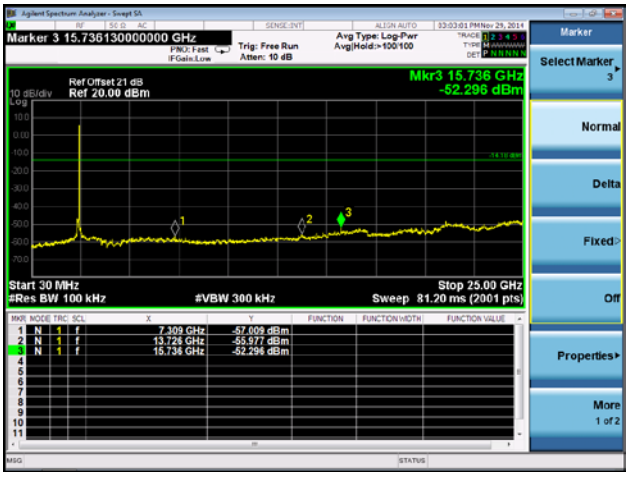
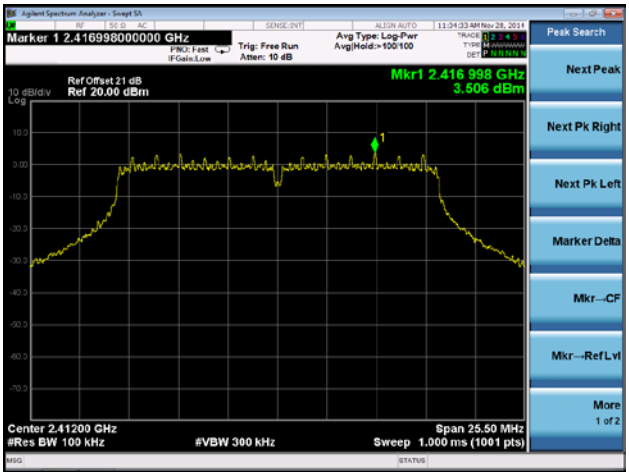
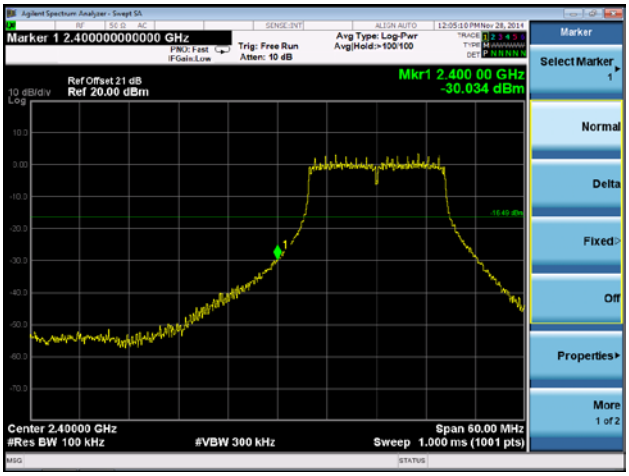
Channel 06 (2437MHz)

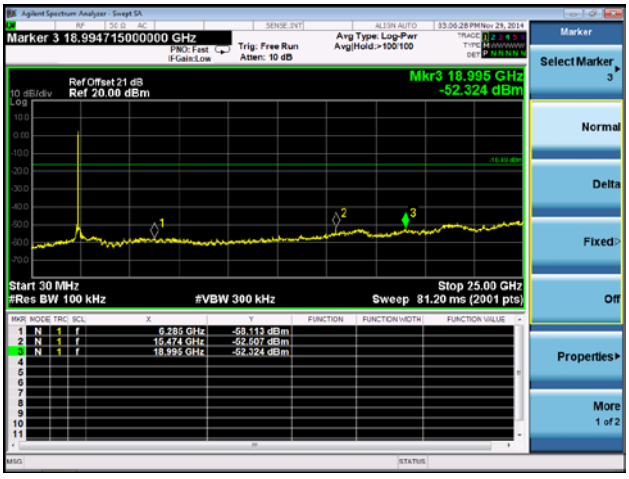
100kHz PSD Reference Level

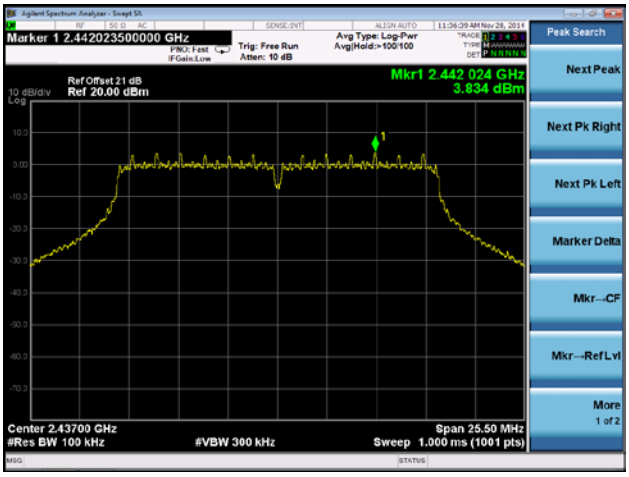
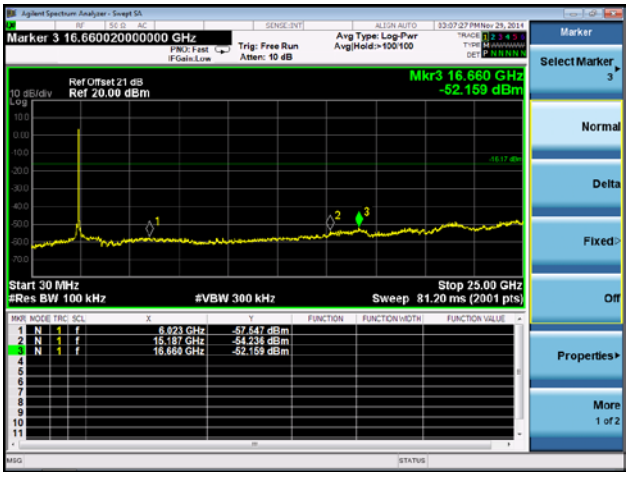


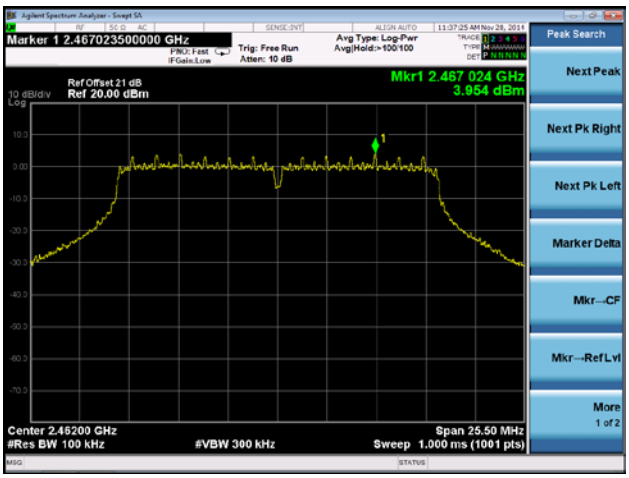
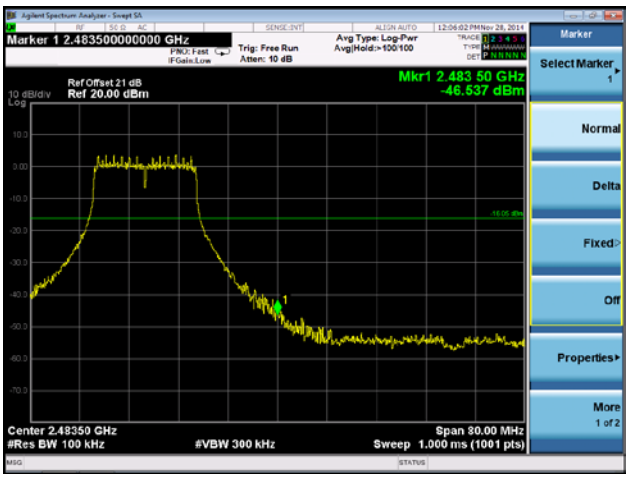
Spurious Emission

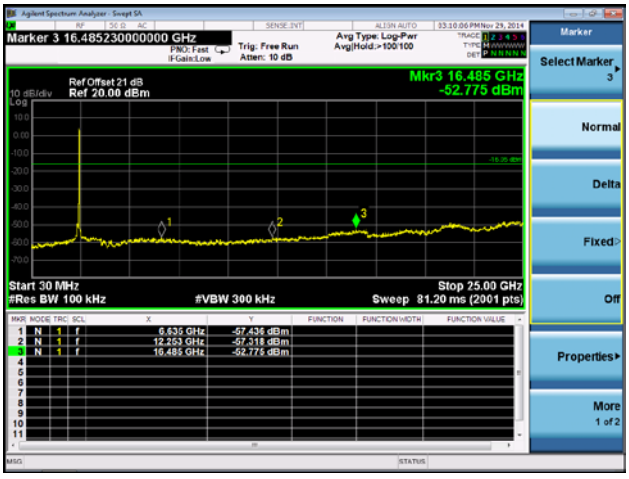
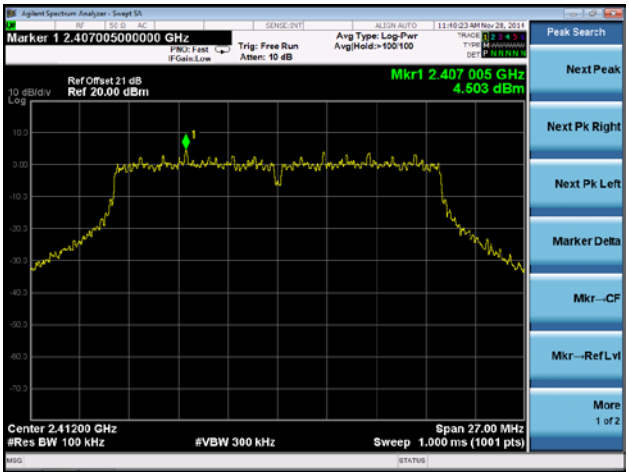
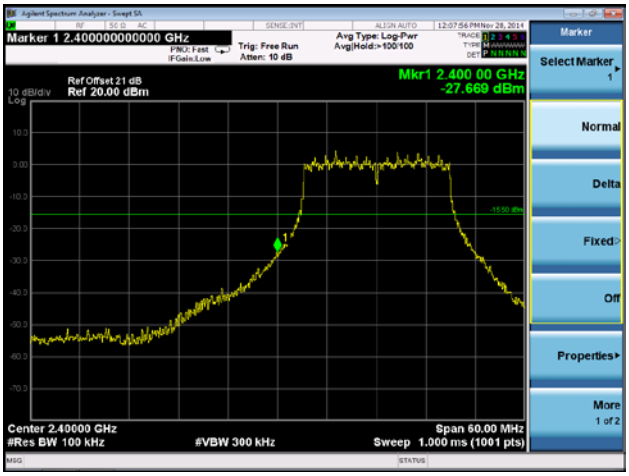


Channel 11 (2462MHz)	
100kHz PSD Reference Level	**High Band Edge**
	
Spurious Emission	
	
802.11g Out-of-Band Emissions - Ant 1 / Ant 0 + 1	
Channel 01 (2412MHz)	
100kHz PSD Reference Level	**Low Band Edge**
	

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**
	
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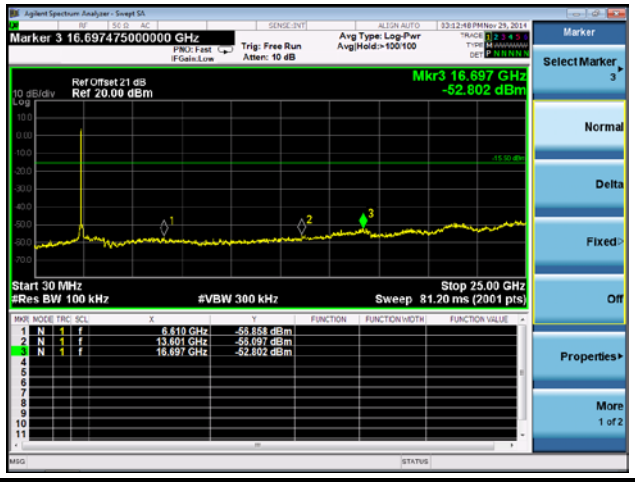
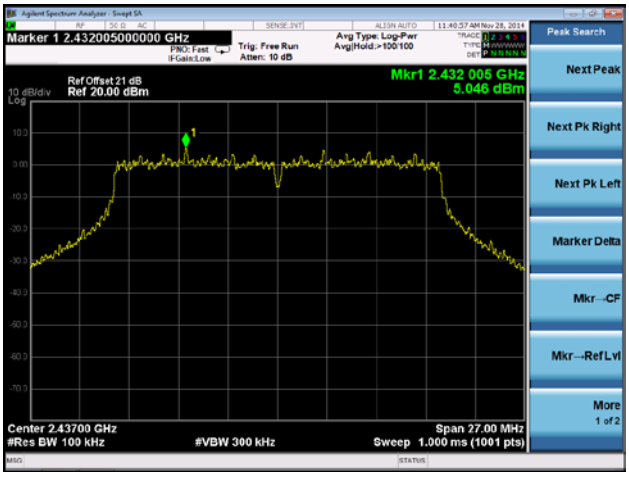
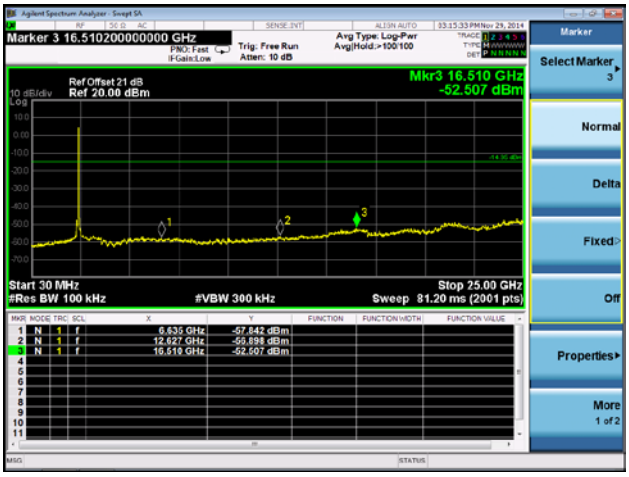
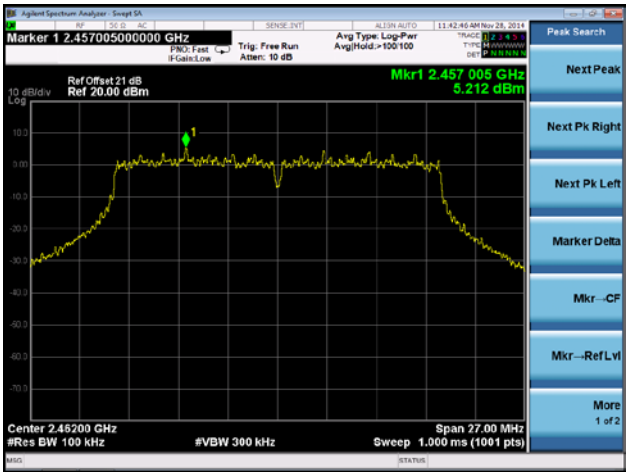
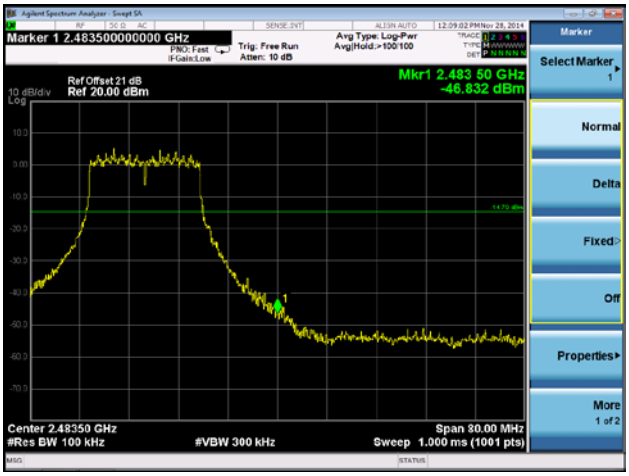
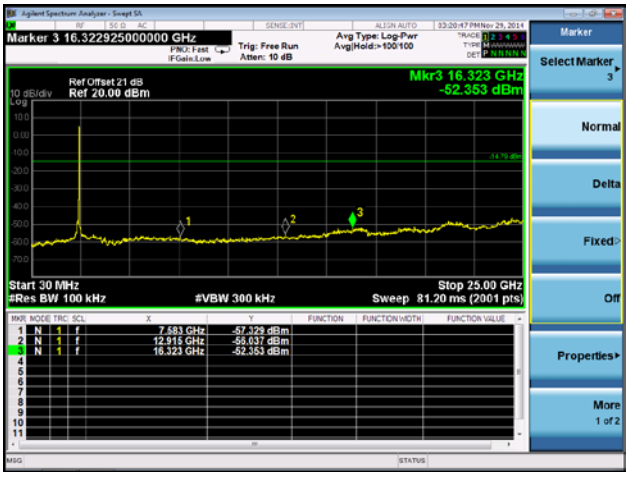
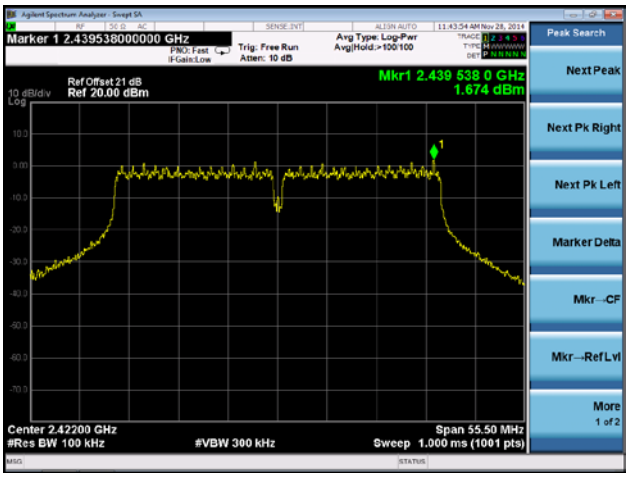
	

Channel 06 (2437MHz)	
100kHz PSD Reference Level	**Spurious Emission**
	
Channel 11 (2462MHz)	
100kHz PSD Reference Level	**High Band Edge**
	
Spurious Emission	
	

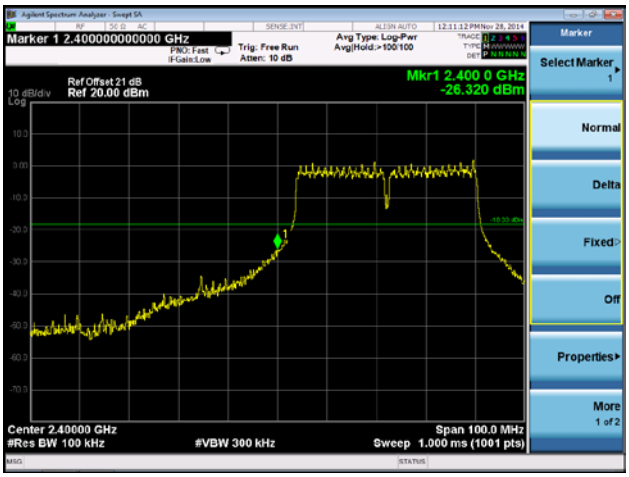
802.11n-HT40 Out-of-Band Emissions - Ant 1 / Ant 0 + 1

Channel 03 (2422MHz)

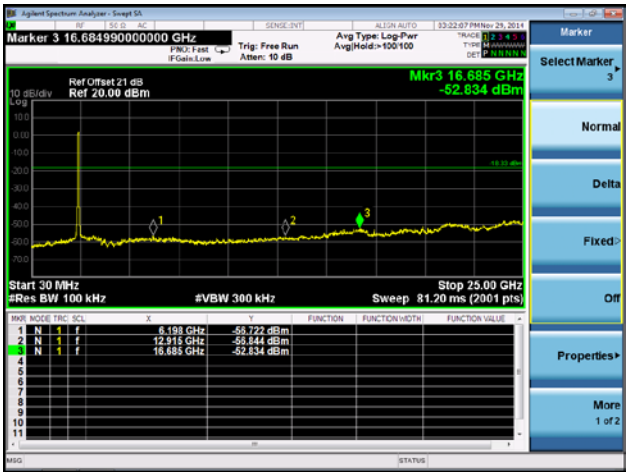
100kHz PSD Reference Level



Low Band Edge

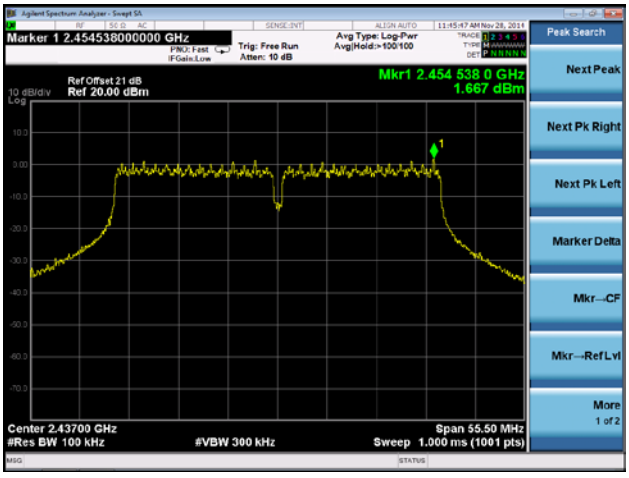


Spurious Emission

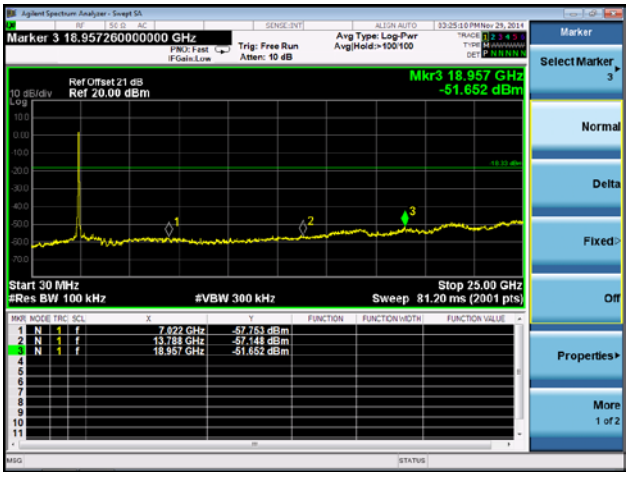


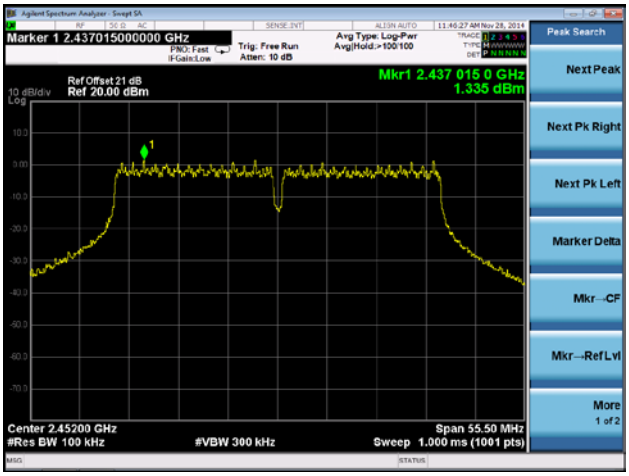
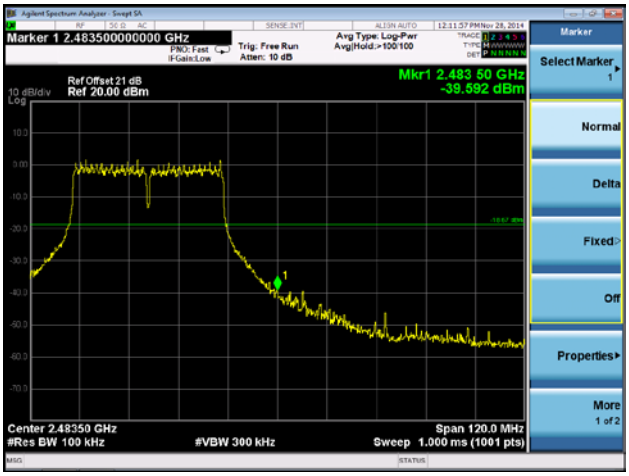
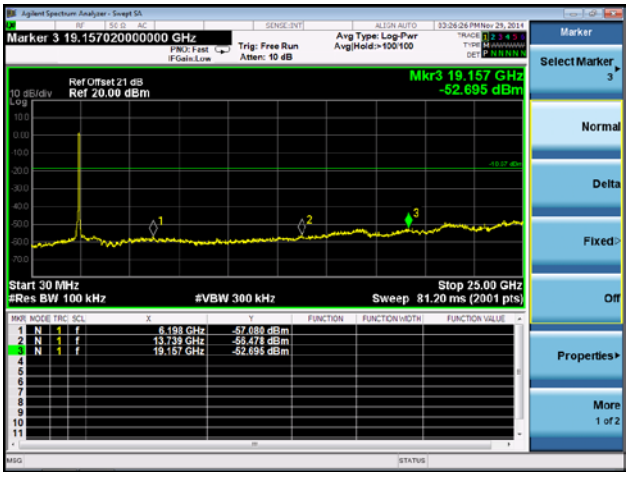
Channel 06 (2437MHz)

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

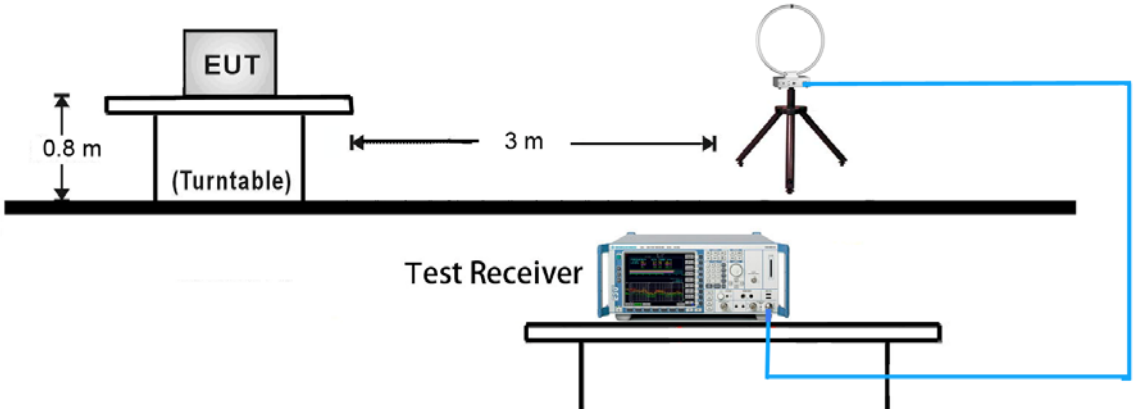
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements per Section 12.2.5.3 of KDB 558074 D01v03r02

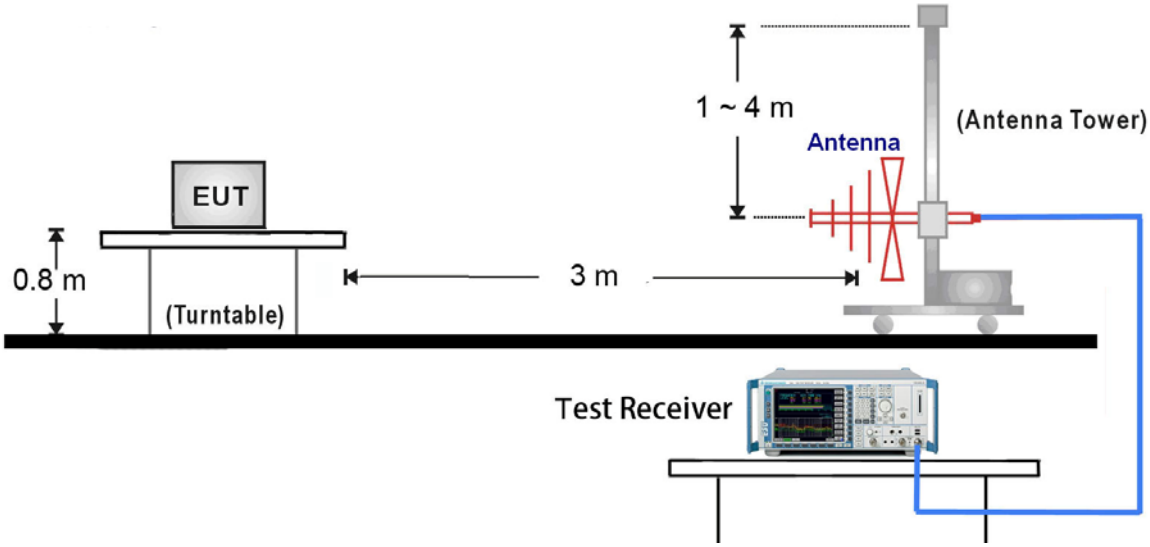
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW ≥ 1/T
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). 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

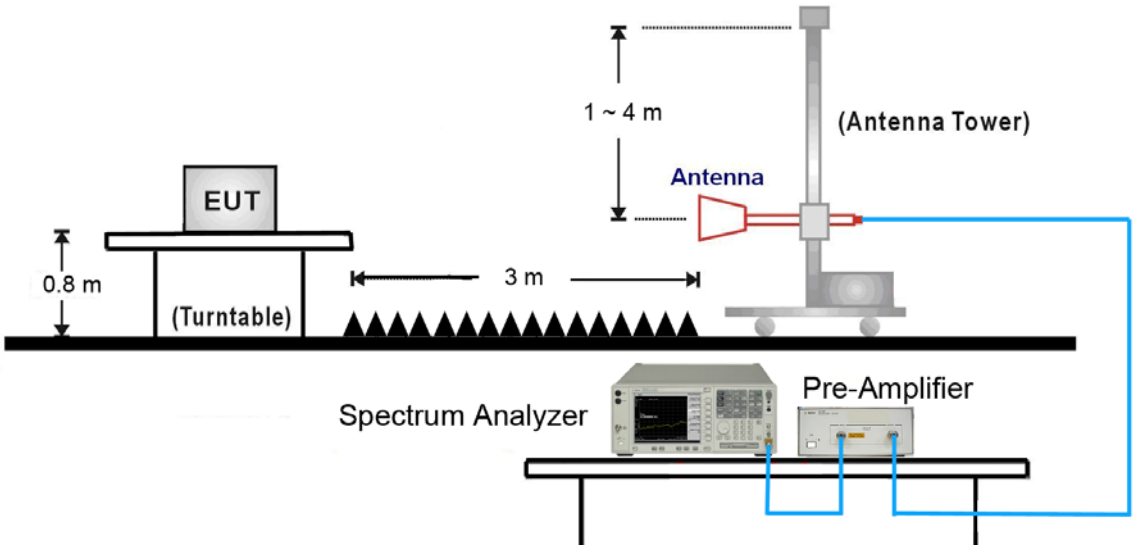
9kHz ~ 30MHz Test Setup:



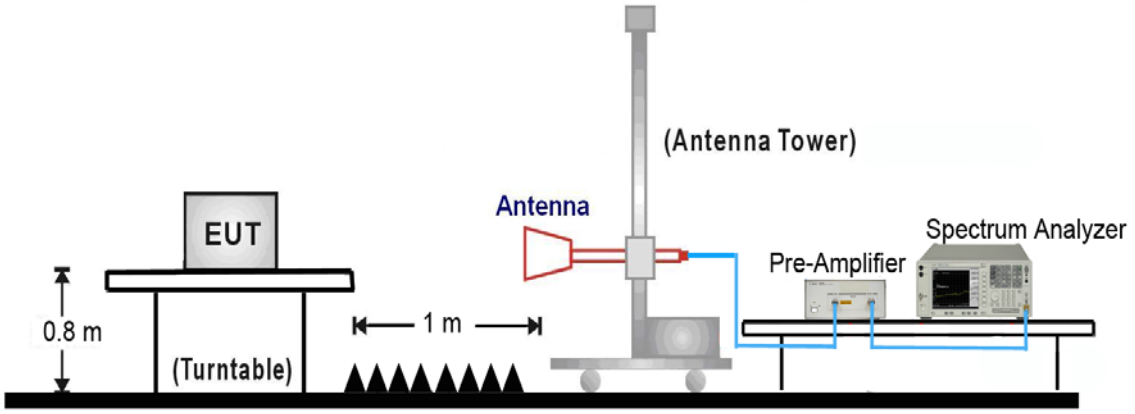
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~25GHz Test Setup:



7.6.5. Test Result

Test 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
*	3142.5	37.6	3.6	41.2	74.0	-32.8	Peak	Horizontal
*	4453.7	32.6	5.5	38.2	74.0	-35.8	Peak	Horizontal
	4825.0	42.2	6.4	48.6	87.7	-39.1	Peak	Horizontal
	7356.7	31.8	14.0	45.8	87.7	-41.9	Peak	Horizontal
*	3145.7	38.0	3.6	41.6	74.0	-32.4	Peak	Horizontal
*	4456.5	33.0	5.5	38.6	74.0	-35.4	Peak	Vertical
	4825.0	38.7	6.4	45.1	87.7	-42.6	Peak	Vertical
	7369.8	32.2	14.0	46.3	87.7	-41.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (107.7dBμV/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:	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
*	3025.4	36.3	3.4	39.7	74.0	-34.3	Peak	Horizontal
*	4472.4	32.9	5.6	38.4	74.0	-35.6	Peak	Horizontal
	4876.0	42.9	6.6	49.5	88.3	-38.8	Peak	Horizontal
	7311.0	32.3	14.0	46.3	88.3	-42.0	Peak	Horizontal
*	3106.4	36.6	3.5	40.1	74.0	-33.9	Peak	Horizontal
*	4472.7	32.3	5.6	37.9	74.0	-36.1	Peak	Vertical
	4876.0	38.9	6.6	45.5	88.3	-42.8	Peak	Vertical
	7311.0	32.4	14.0	46.4	88.3	-41.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (108.3dBμV/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:	802.11b	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
*	3142.3	36.8	3.6	40.4	74.0	-33.6	Peak	Horizontal
*	4481.6	32.5	5.6	38.0	74.0	-36.0	Peak	Horizontal
	4927.0	44.7	6.7	51.4	89.7	-38.3	Peak	Horizontal
	7386.0	32.1	14.1	46.2	89.7	-43.5	Peak	Horizontal
*	3076.4	36.3	3.5	39.8	74.0	-34.2	Peak	Vertical
*	4470.3	32.3	5.6	37.9	74.0	-36.1	Peak	Vertical
	4927.0	40.8	6.7	47.6	89.7	-42.1	Peak	Vertical
	7386.0	31.6	14.1	45.7	89.7	-44.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (109.7dBμV/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:	802.11g	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
*	3025.7	36.7	3.4	40.1	74.0	-33.9	Peak	Horizontal
*	4484.0	32.9	5.6	38.4	74.0	-35.6	Peak	Horizontal
	4833.5	37.8	6.4	44.3	93.1	-48.8	Peak	Horizontal
	7236.0	33.4	13.8	47.1	93.1	-46.0	Peak	Horizontal
*	3058.8	36.0	3.5	39.4	74.0	-34.6	Peak	Vertical
*	4453.7	32.4	5.5	38.0	74.0	-36.0	Peak	Vertical
	4825.0	36.0	6.4	42.4	93.1	-50.7	Peak	Vertical
	7236.0	34.0	13.8	47.8	93.1	-45.3	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:	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
*	3025.4	36.6	3.4	40.0	74.0	-34.0	Peak	Horizontal
*	4453.3	32.8	5.5	38.4	74.0	-35.6	Peak	Horizontal
	4867.5	39.4	6.6	46.0	93.6	-47.6	Peak	Horizontal
	7311.0	32.5	14.0	46.5	93.6	-47.1	Peak	Horizontal
*	3185.7	36.0	3.6	39.6	74.0	-34.4	Peak	Vertical
*	4413.7	33.7	5.5	39.2	74.0	-34.8	Peak	Vertical
	4876.0	36.7	6.6	43.3	93.6	-50.3	Peak	Vertical
	7386.0	31.7	14.1	45.7	93.6	-47.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (113.6dBμV/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
*	3145.6	36.4	3.6	40.0	74.0	-34.0	Peak	Horizontal
*	4462.4	32.9	5.5	38.4	74.0	-35.6	Peak	Horizontal
	4927.0	40.1	6.7	46.8	94.2	-47.4	Peak	Horizontal
	7386.0	31.9	14.1	46.0	94.2	-48.2	Peak	Horizontal
*	3025.4	36.4	3.4	39.8	74.0	-34.2	Peak	Vertical
*	4401.7	33.9	5.5	39.4	74.0	-34.6	Peak	Vertical
	4918.5	36.5	6.7	43.2	94.2	-51.0	Peak	Vertical
	7386.0	31.0	14.1	45.1	94.2	-49.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (114.2dBμV/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:	802.11n-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
*	3125.4	36.4	3.6	40.0	74.0	-34.0	Peak	Horizontal
*	4426.5	33.1	5.5	38.6	74.0	-35.4	Peak	Horizontal
	4825.0	37.8	6.4	44.2	90.8	-46.6	Peak	Horizontal
	7365.4	32.0	14.0	46.1	90.8	-44.7	Peak	Horizontal
*	3144.5	36.5	3.6	40.1	74.0	-33.9	Peak	Vertical
*	4445.7	32.3	5.5	37.8	74.0	-36.2	Peak	Vertical
	4825.0	36.0	6.4	42.4	90.8	-48.4	Peak	Vertical
	7356.5	31.5	14.0	45.5	90.8	-45.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (110.8dBμV/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:	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
*	3144.8	36.9	3.6	40.6	74.0	-33.5	Peak	Horizontal
*	4463.3	32.1	5.6	37.6	74.0	-36.4	Peak	Horizontal
	4876.0	38.4	6.6	45.0	90.2	-45.2	Peak	Horizontal
	7311.0	33.3	14.0	47.3	90.2	-42.9	Peak	Horizontal
*	3145.0	37.4	3.6	41.0	74.0	-33.0	Peak	Vertical
*	4472.0	32.3	5.6	37.9	74.0	-36.1	Peak	Vertical
	4874.0	35.5	6.6	42.1	90.2	-48.1	Peak	Vertical
	7311.0	32.7	14.0	46.7	90.2	-43.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (110.2dBμV/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:	802.11n-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
*	3025.4	36.3	3.4	39.7	74.0	-34.3	Peak	Horizontal
*	4471.0	32.4	5.6	38.0	74.0	-36.0	Peak	Horizontal
	4927.0	39.4	6.7	46.2	90.5	-44.3	Peak	Horizontal
	7386.0	31.7	14.1	45.8	90.5	-44.7	Peak	Horizontal
*	3025.7	36.7	3.4	40.1	74.0	-33.9	Peak	Vertical
*	4471.0	33.1	5.6	38.7	74.0	-35.3	Peak	Vertical
	4874.0	34.0	6.6	40.6	90.5	-49.9	Peak	Vertical
	7386.0	31.6	14.1	45.7	90.5	-44.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (110.5dBμV/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
*	3151.0	35.7	3.6	39.4	74.0	-34.6	Peak	Horizontal
*	4472.7	32.6	5.6	38.2	74.0	-35.8	Peak	Horizontal
	4844.0	34.3	6.5	40.8	87.4	-46.6	Peak	Horizontal
	7266.0	32.6	13.9	46.5	87.4	-40.9	Peak	Horizontal
*	3155.7	36.5	3.6	40.1	74.0	-33.9	Peak	Vertical
*	4406.3	33.1	5.5	38.6	74.0	-35.4	Peak	Vertical
	4844.0	33.9	6.5	40.4	87.4	-47.0	Peak	Vertical
	7266.0	32.7	13.9	46.6	87.4	-40.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (107.4dBμV/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-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
*	3056.7	36.4	3.5	39.9	74.0	-34.1	Peak	Horizontal
*	4472.5	32.4	5.6	38.0	74.0	-36.0	Peak	Horizontal
	4859.0	38.1	6.5	44.7	88.1	-43.4	Peak	Horizontal
	7311.0	32.9	14.0	46.9	88.1	-41.2	Peak	Horizontal
*	3153.7	36.3	3.6	39.9	74.0	-34.1	Peak	Vertical
*	4472.5	33.1	5.6	38.6	74.0	-35.4	Peak	Vertical
	4874.0	34.1	6.6	40.7	88.1	-47.4	Peak	Vertical
	7311.0	32.7	14.0	46.7	88.1	-41.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (108.1dBμV/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
*	3153.7	37.0	3.6	40.6	74.0	-33.4	Peak	Horizontal
*	4459.4	32.3	5.5	37.9	74.0	-36.1	Peak	Horizontal
	4884.5	38.0	6.7	44.6	88.7	-44.1	Peak	Horizontal
	7356.0	32.6	14.0	46.7	88.7	-42.0	Peak	Horizontal
*	3145.6	38.1	3.6	41.7	74.0	-32.3	Peak	Vertical
*	4475.7	33.6	5.6	39.1	74.0	-34.9	Peak	Vertical
	4904.0	34.6	6.7	41.3	88.7	-47.4	Peak	Vertical
	7356.0	32.0	14.0	46.1	88.7	-42.6	Peak	Vertical

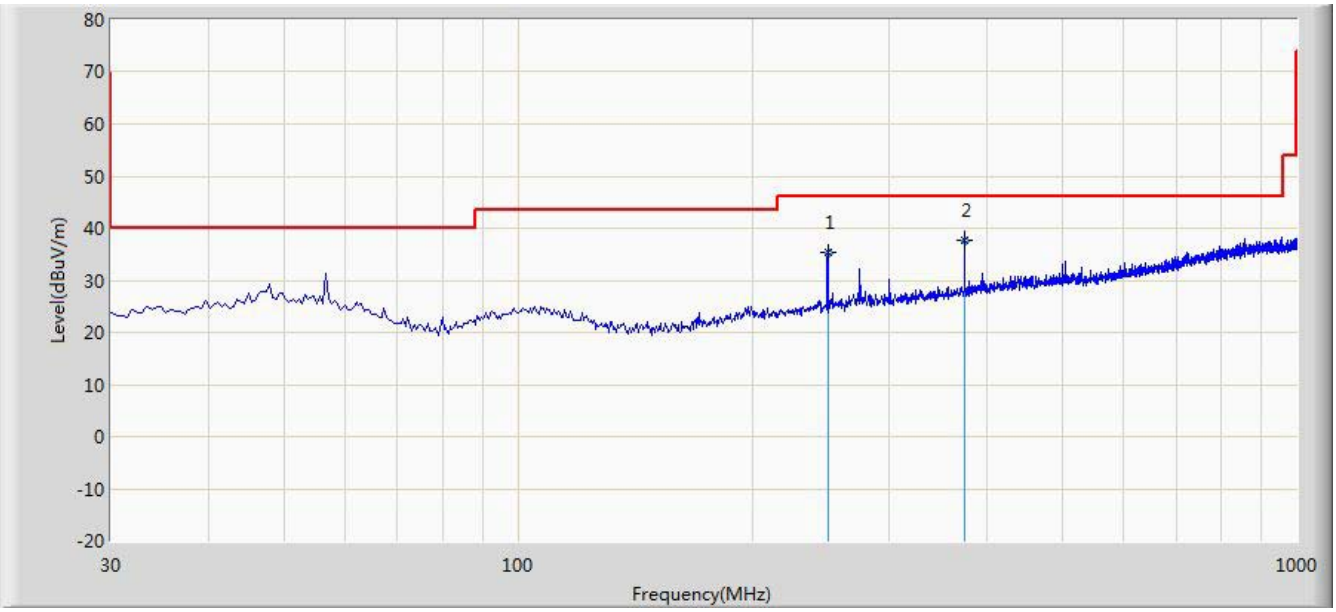
Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (107.7dBμV/m).

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

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

The worst case of Radiated Emission below 1GHz:

Site: AC1	Time: 2014/12/03 - 10:40
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Worst Case Mode: Transmit at channel 2412MHz by 802.11g	

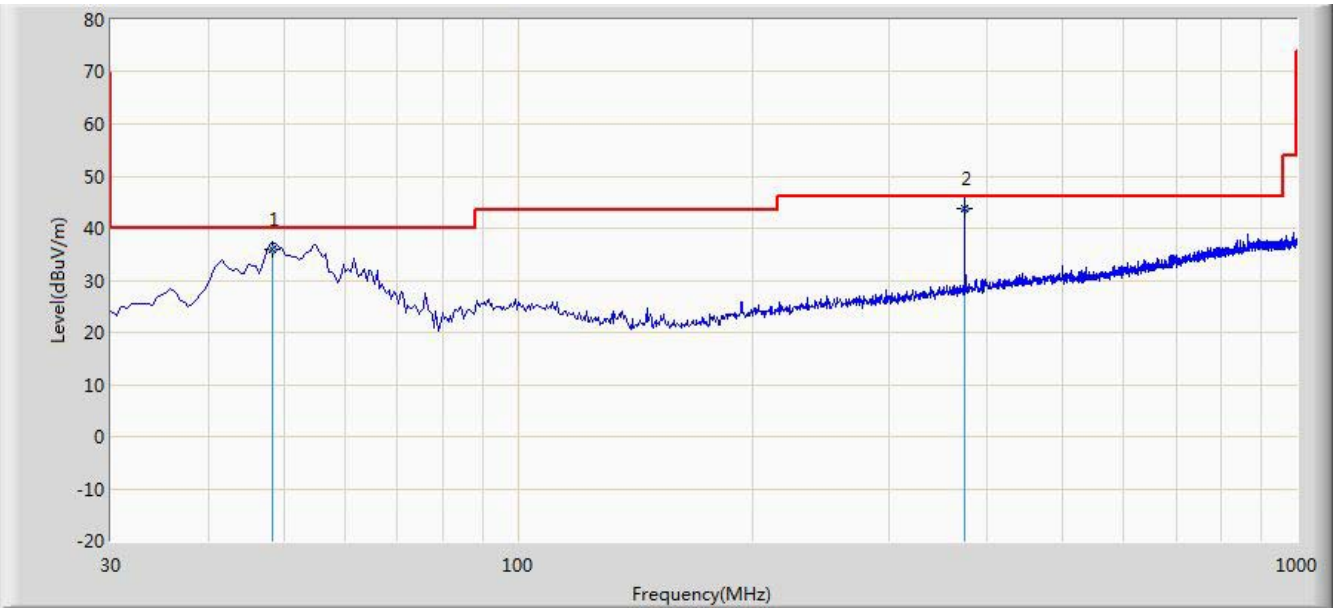


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			250.010	35.232	21.952	-10.768	46.000	13.279	QP
2		*	375.022	37.752	22.020	-8.248	46.000	15.732	QP

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2014/12/03 - 10:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: VULB9162_0.03-8GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Worst Case Mode: Transmit at channel 2412MHz by 802.11g	

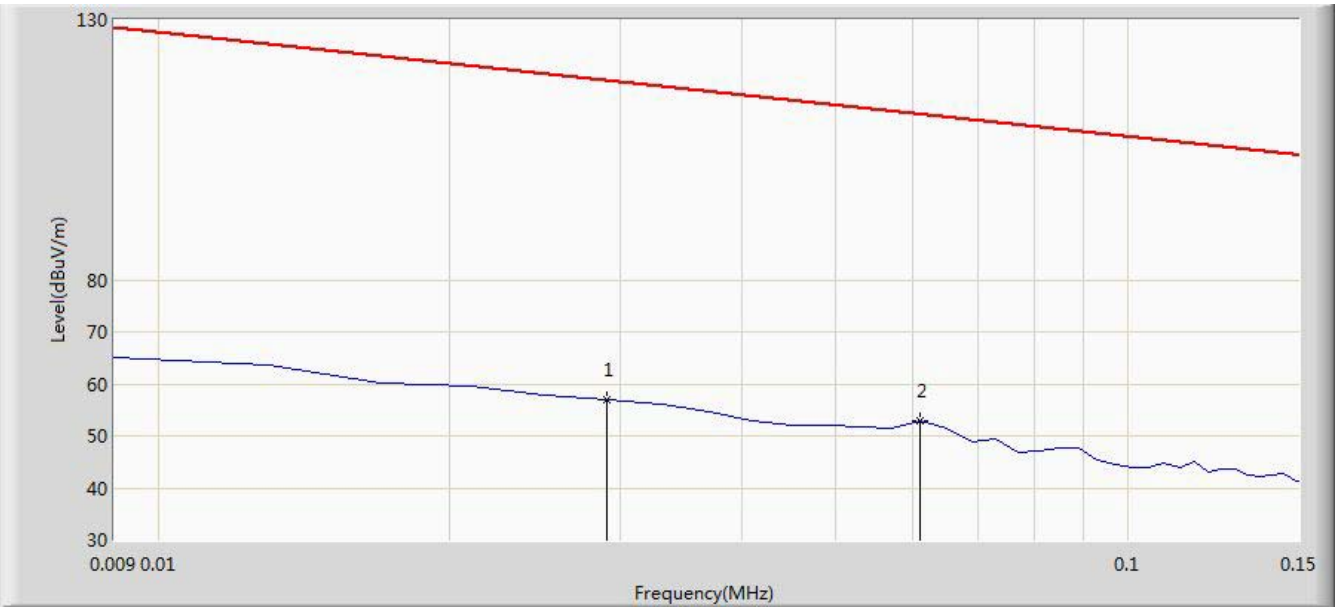


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			48.440	36.033	21.250	-3.967	40.000	14.783	QP
2		*	375.020	43.752	28.020	-2.248	46.000	15.732	QP

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2014/10/26 - 18:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: FMZB1519_0.009-30MHz	Polarity: Face on
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Worst Case Mode: There is the ambient noise within frequency range 9kHz~30MHz(802.11n-HT20 2462MHz).	

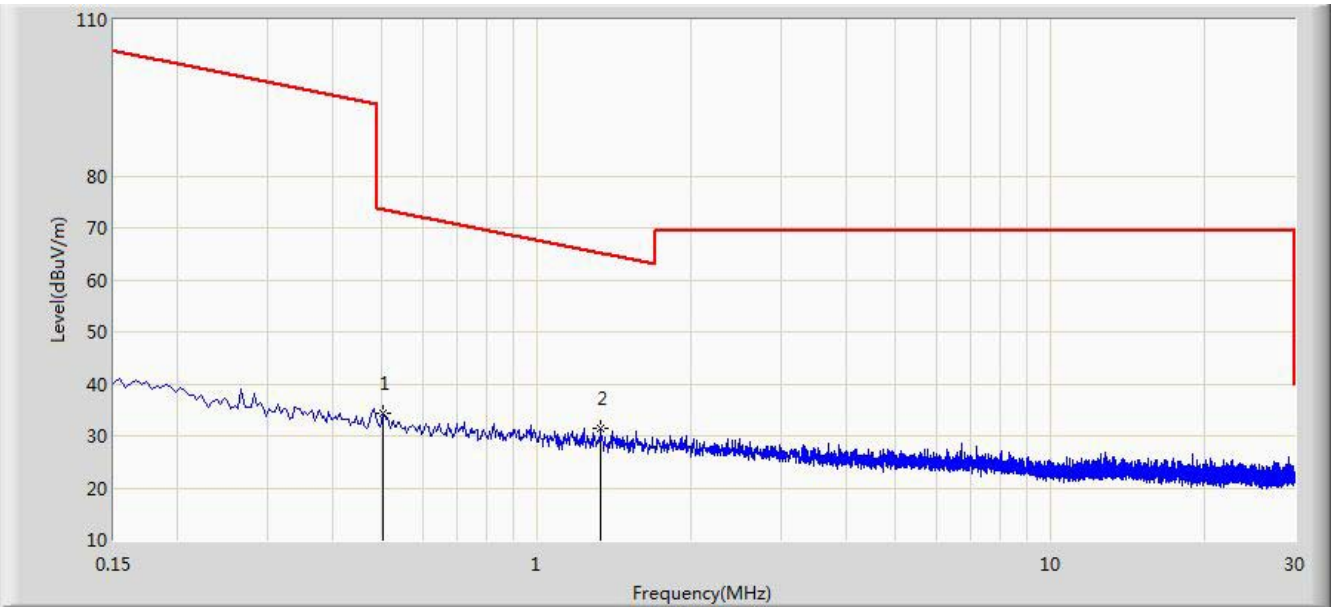


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			0.029	56.893	35.844	-61.449	118.342	21.049	QP
2		*	0.061	52.853	32.542	-59.034	111.887	20.311	QP

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Engineer: Roy Cheng	
Site: AC1	Time: 2014/10/26 - 18:16
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: FMZB1519_0.009-30MHz	Polarity: Face on
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Worst Case Mode: There is the ambient noise within frequency range 9kHz~30MHz(802.11n-HT20 2462MHz).	

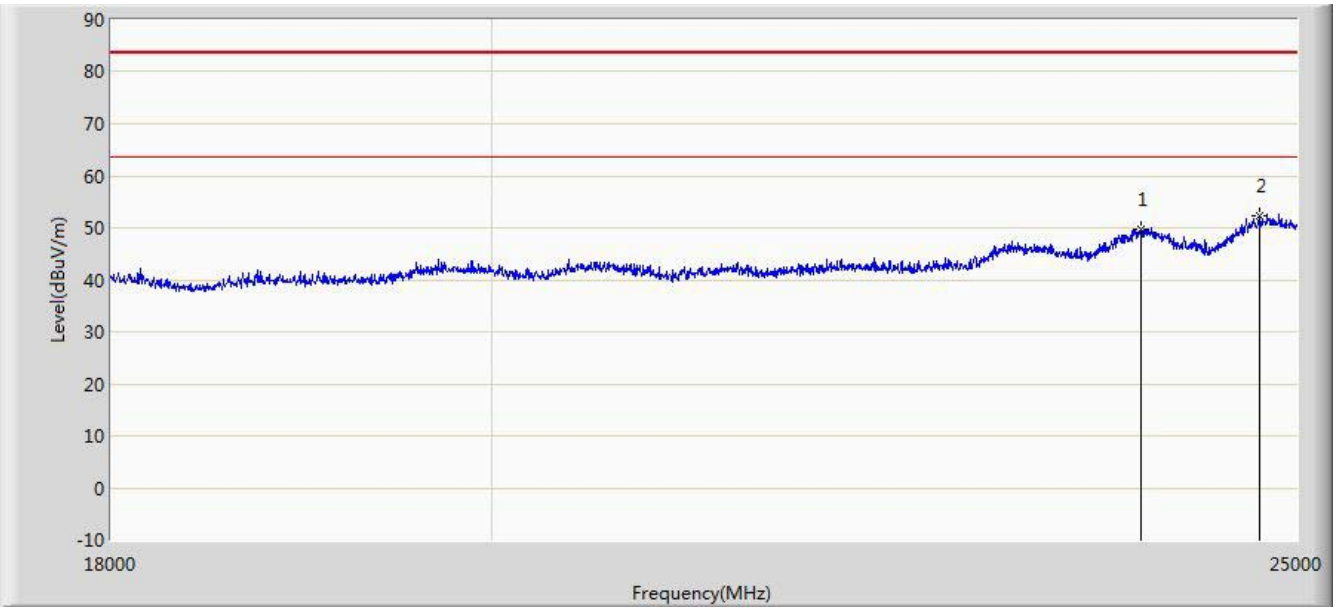


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			0.502	34.370	13.947	-39.220	73.590	20.423	QP
2		*	1.334	31.595	11.104	-33.530	65.125	20.491	QP

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC1	Time: 2014/12/03 - 21:20
Limit: FCC_Part15.209_RE(1m)	Engineer: Roy Cheng
Probe: BBHA9170_18-40GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Worst Case Mode: There is the ambient noise within frequency range 18GHz~25GHz(802.11n-HT20 2462MHz).	



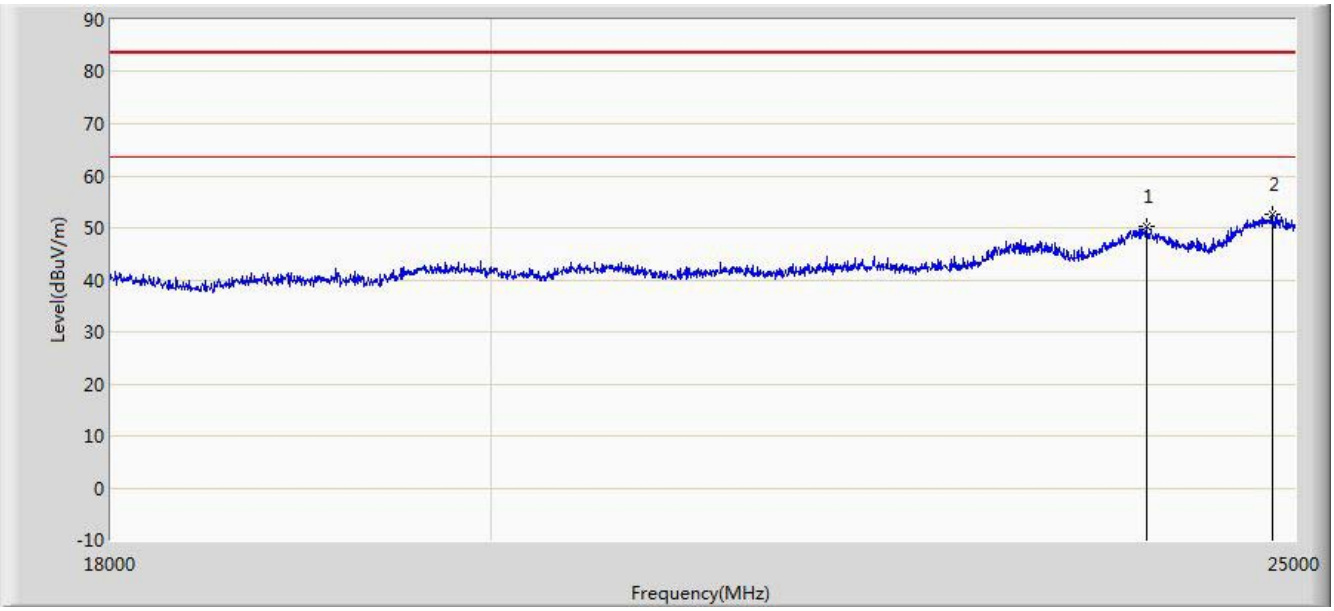
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			23943.000	49.776	35.866	-33.724	83.500	13.910	PK
2		*	24741.000	52.375	37.681	-31.125	83.500	14.694	PK

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

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

Limit (83.5 dBμV/m) = 74 dBμV/m + 20Log(3m/1m)

Site: AC1	Time: 2014/12/03 - 21:32
Limit: FCC_Part15.209_RE(1m)	Engineer: Roy Cheng
Probe: BBHA9170_18-40GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Worst Case Mode: There is the ambient noise within frequency range 18GHz~25GHz(802.11n-HT20 2462MHz).	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			23999.000	50.379	36.435	-33.121	83.500	13.944	PK
2		*	24846.000	52.503	37.735	-30.997	83.500	14.768	PK

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

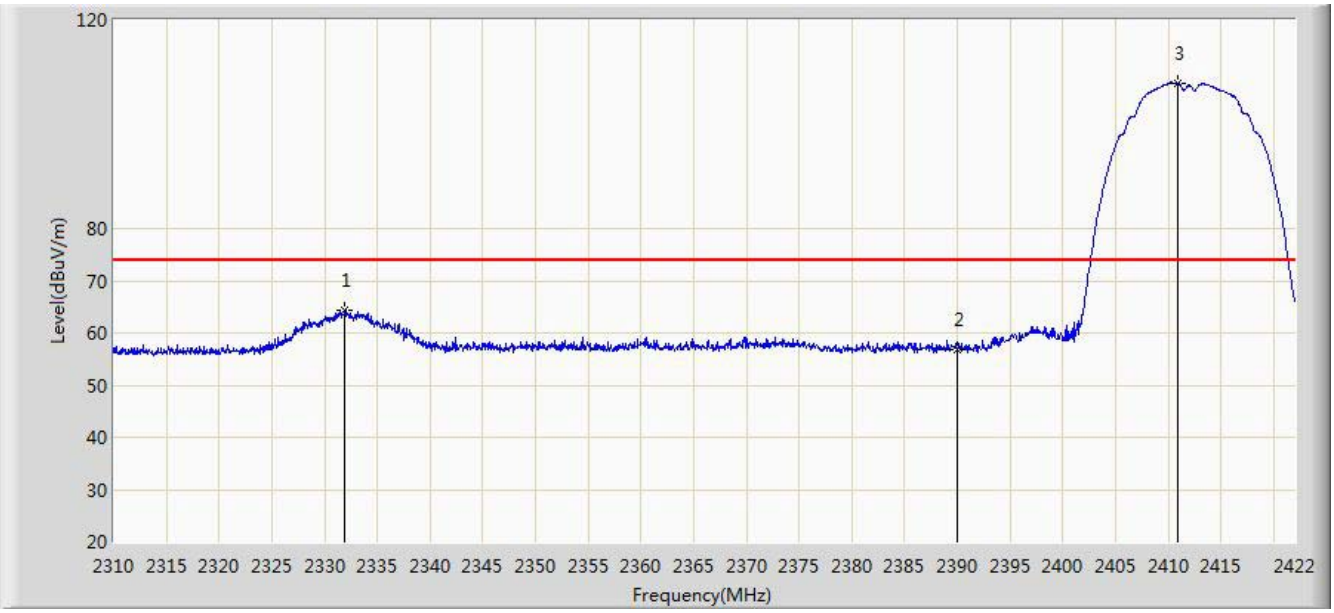
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Limit (83.5 dBμV/m) = 74 dBμV/m + 20Log(3m/1m)

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Result

Site: AC1	Time: 2014/12/02 - 11:43
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 1: Transmit at channel 2412MHz by 802.11b	

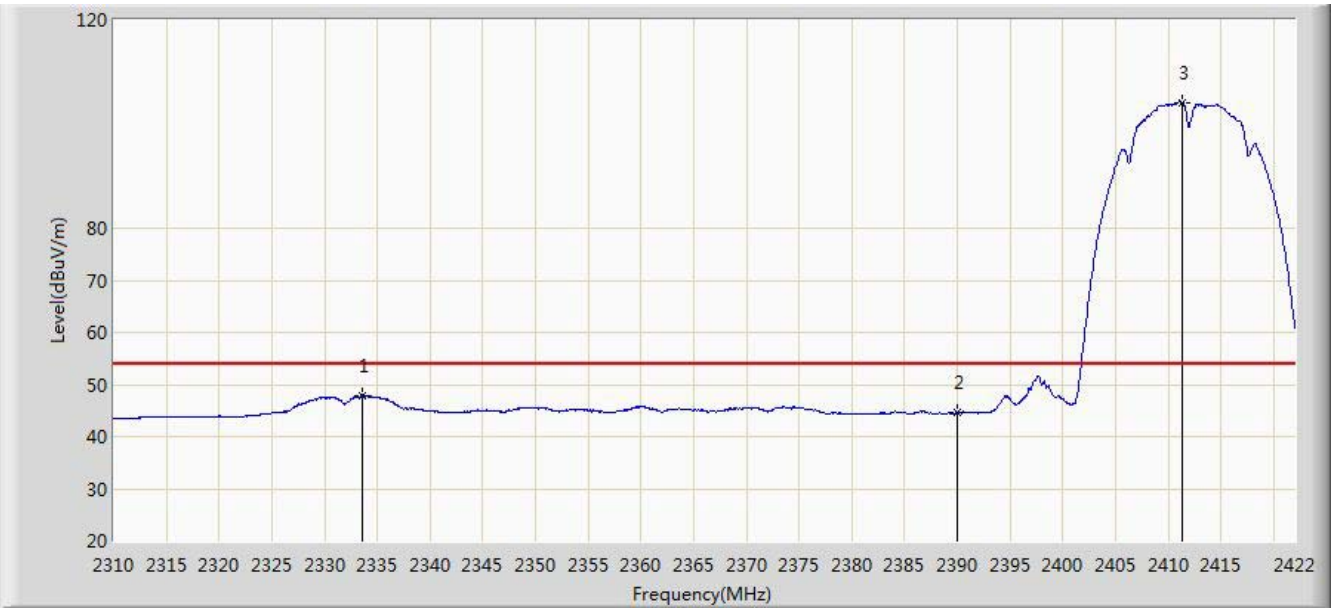


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2331.952	64.294	33.435	-9.706	74.000	30.859	PK
2			2390.000	56.822	26.138	-17.178	74.000	30.684	PK
3		*	2410.968	107.746	77.100	N/A	N/A	30.646	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 11:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 1: Transmit at channel 2412MHz by 802.11b	

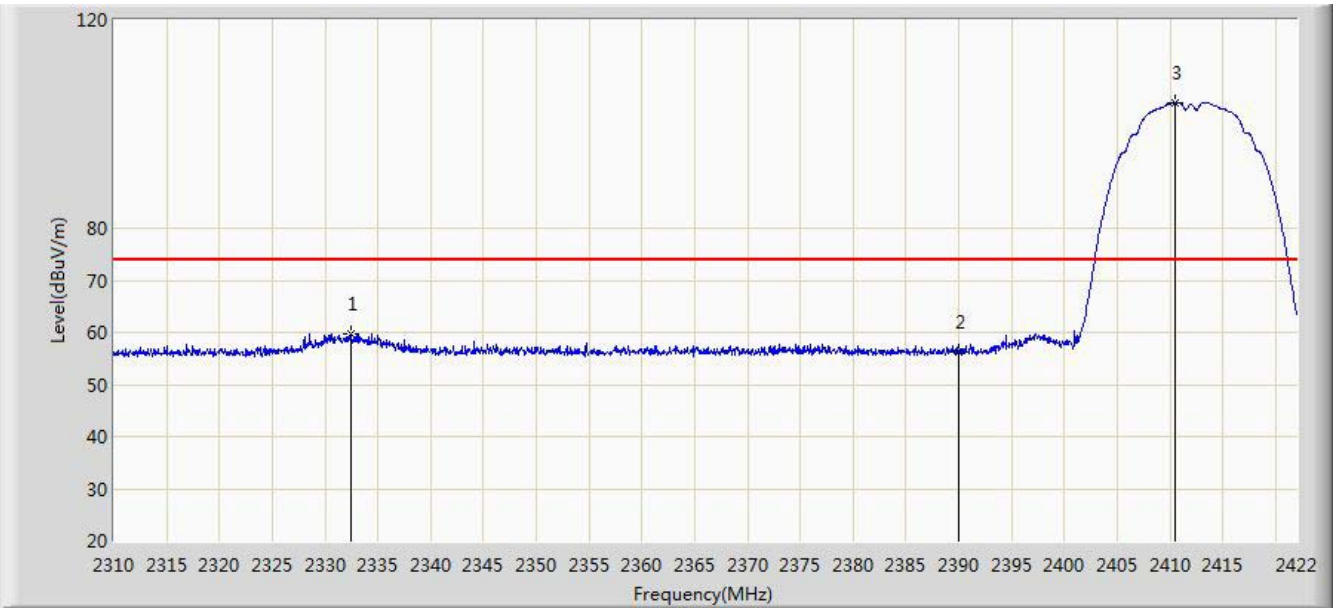


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2333.576	47.863	17.012	-6.137	54.000	30.851	AV
2			2390.000	44.502	13.818	-9.498	54.000	30.684	AV
3		*	2411.304	104.119	73.473	N/A	N/A	30.646	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 11:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 1: Transmit at channel 2412MHz by 802.11b	

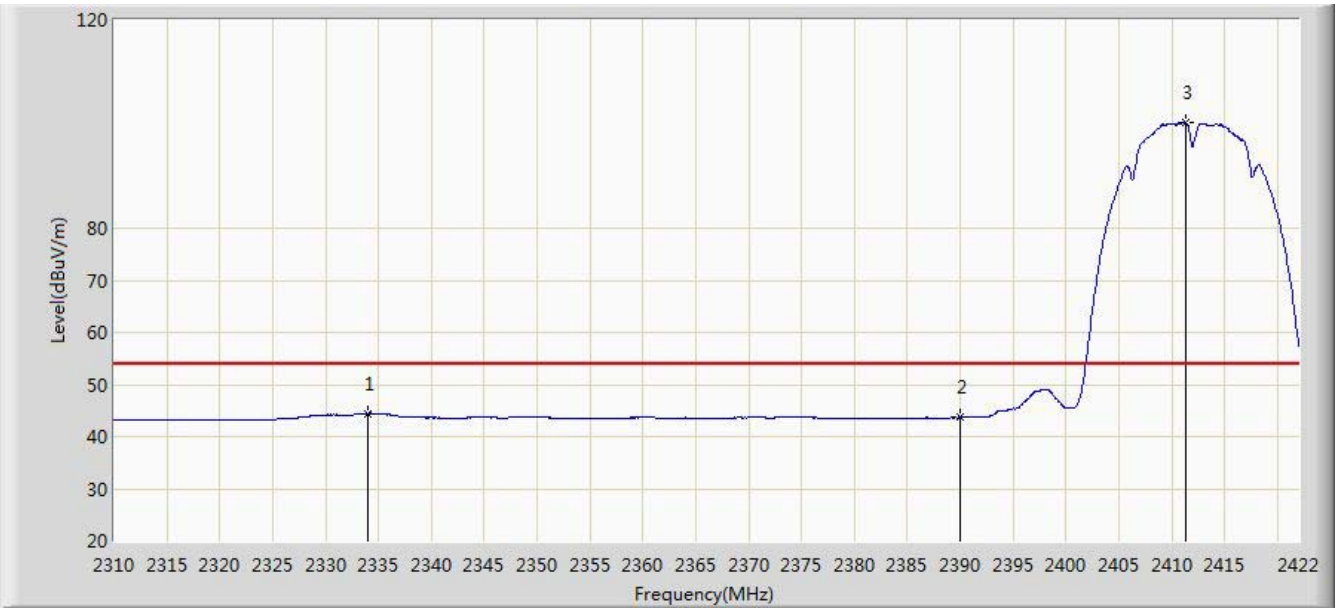


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2332.512	59.603	28.747	-14.397	74.000	30.856	PK
2			2390.000	56.215	25.531	-17.785	74.000	30.684	PK
3		*	2410.464	104.194	73.547	N/A	N/A	30.648	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 11:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 1: Transmit at channel 2412MHz by 802.11b	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2333.968	44.478	13.629	-9.522	54.000	30.849	AV
2			2390.000	43.624	12.940	-10.376	54.000	30.684	AV
3		*	2411.304	100.331	69.685	N/A	N/A	30.646	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 11:54
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 1: Transmit at channel 2462MHz by 802.11b	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.640	109.653	79.044	N/A	N/A	30.609	PK
2			2483.500	57.746	27.073	-16.254	74.000	30.673	PK
3			2490.592	58.677	27.984	-15.323	74.000	30.693	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

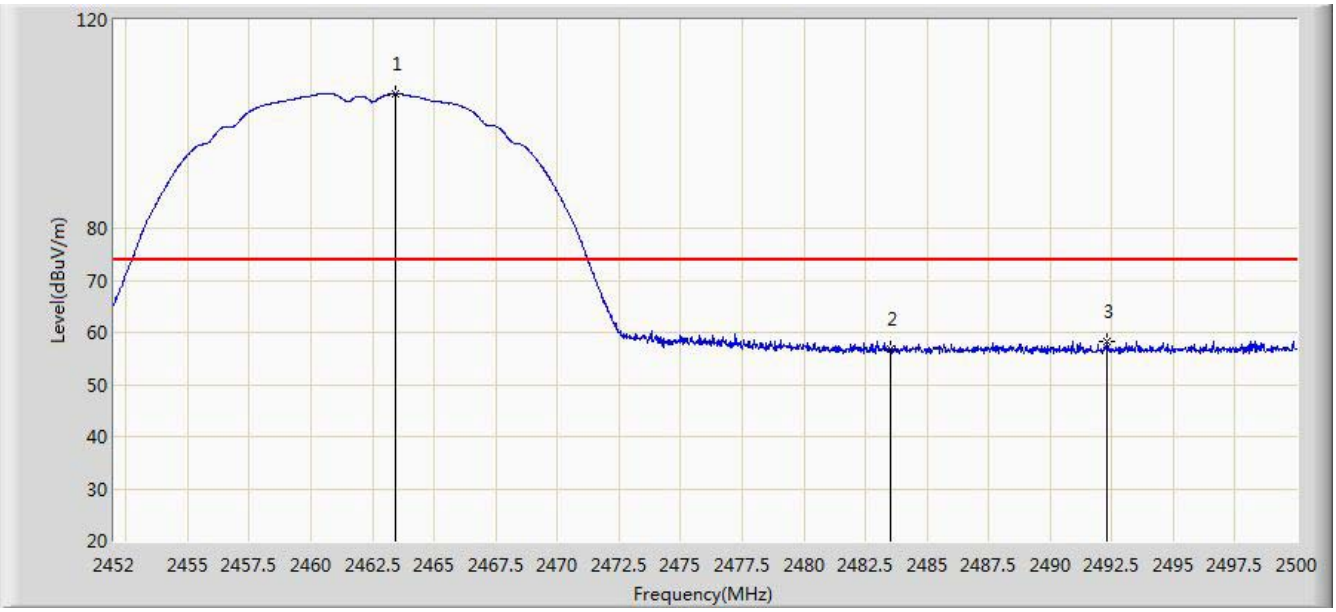
Site: AC1	Time: 2014/12/02 - 11:59
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 1: Transmit at channel 2462MHz by 802.11b	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.000	105.274	74.664	N/A	N/A	30.609	AV
2			2483.500	44.590	13.917	-9.410	54.000	30.673	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 12:00
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 1: Transmit at channel 2462MHz by 802.11b	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.400	105.770	75.156	N/A	N/A	30.615	PK
2			2483.500	56.857	26.184	-17.143	74.000	30.673	PK
3			2492.320	58.198	27.500	-15.802	74.000	30.699	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

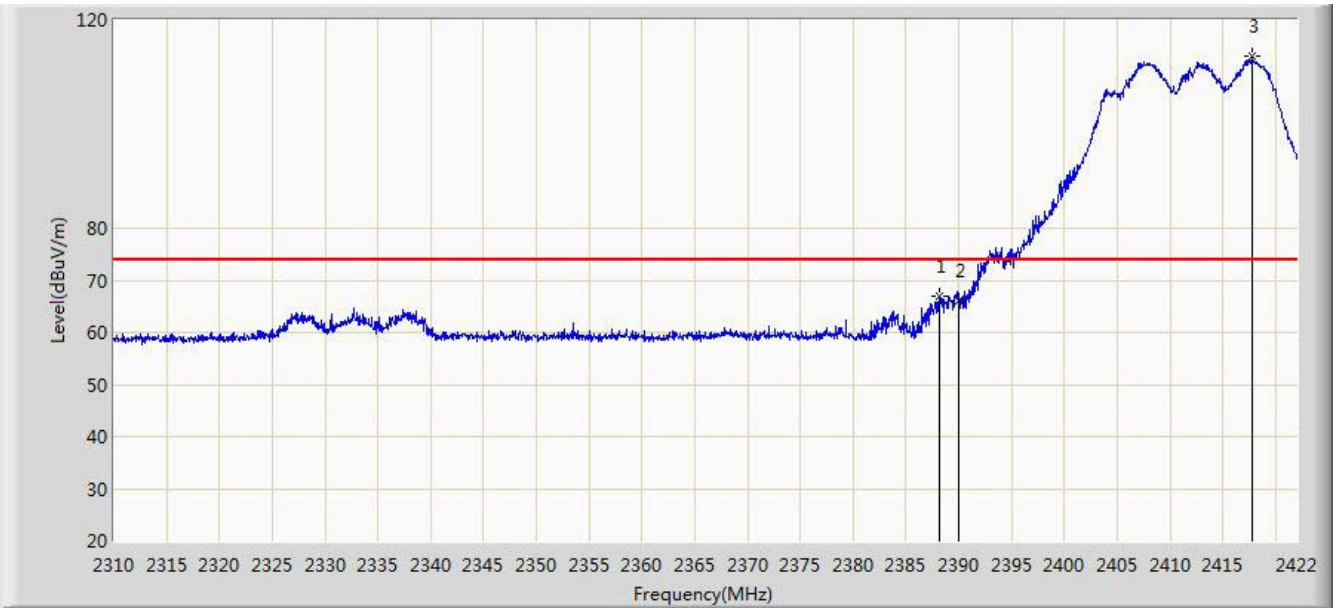
Site: AC1	Time: 2014/12/02 - 12:03
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 1: Transmit at channel 2462MHz by 802.11b	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.312	101.959	71.349	N/A	N/A	30.611	AV
2			2483.500	43.873	13.200	-10.127	54.000	30.673	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 12:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 2: Transmit at channel 2412MHz by 802.11g	

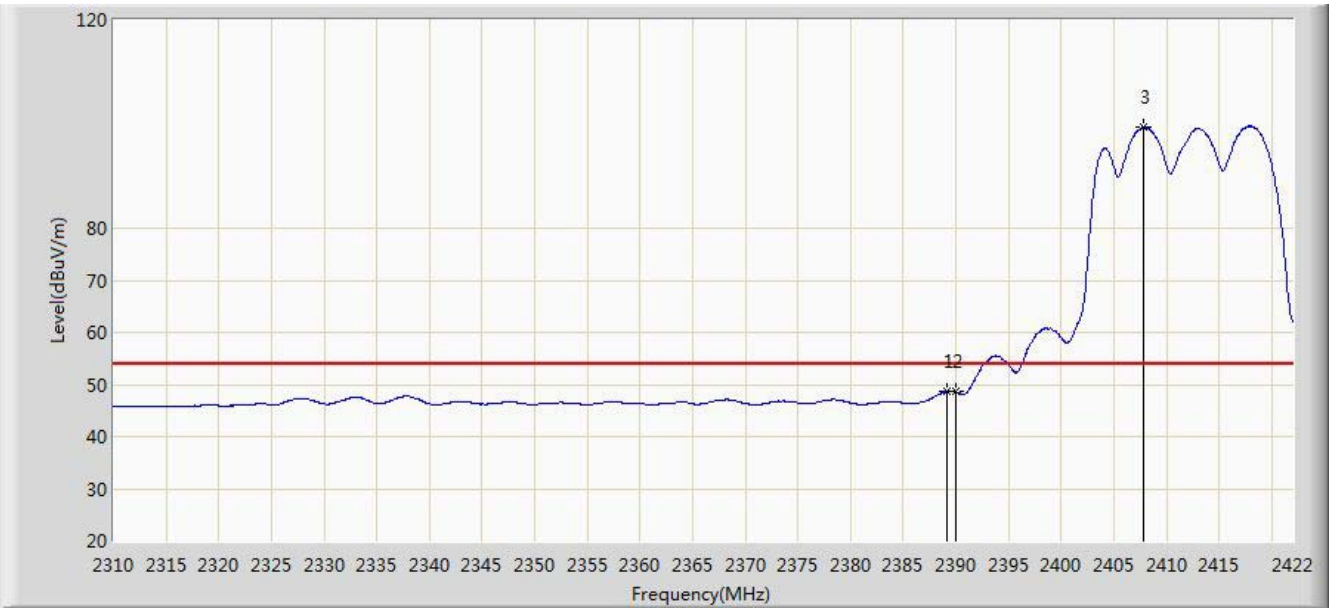


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.120	66.994	36.306	-7.006	74.000	30.688	PK
2			2390.000	65.947	35.263	-8.053	74.000	30.684	PK
3		*	2417.856	113.073	82.437	N/A	N/A	30.636	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 13:09
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 2: Transmit at channel 2412MHz by 802.11g	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.128	48.747	18.061	-5.253	54.000	30.686	AV
2			2390.000	48.586	17.902	-5.414	54.000	30.684	AV
3		*	2407.888	99.374	68.723	N/A	N/A	30.651	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 13:10
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 2: Transmit at channel 2412MHz by 802.11g	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	61.626	30.942	-12.374	74.000	30.684	PK
2		*	2406.488	106.882	76.228	N/A	N/A	30.653	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

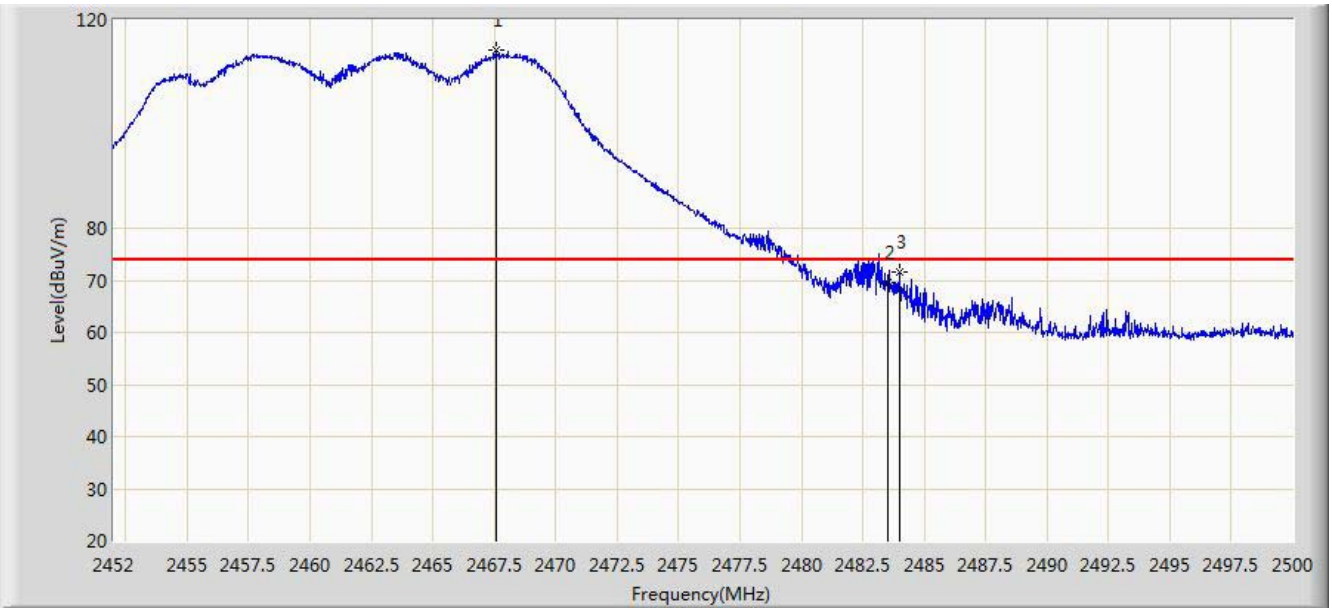
Site: AC1	Time: 2014/12/02 - 13:13
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 2: Transmit at channel 2412MHz by 802.11g	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.362	14.678	-8.638	54.000	30.684	AV
2		*	2416.512	94.718	64.080	N/A	N/A	30.638	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 13:24
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 2: Transmit at channel 2462MHz by 802.11g	

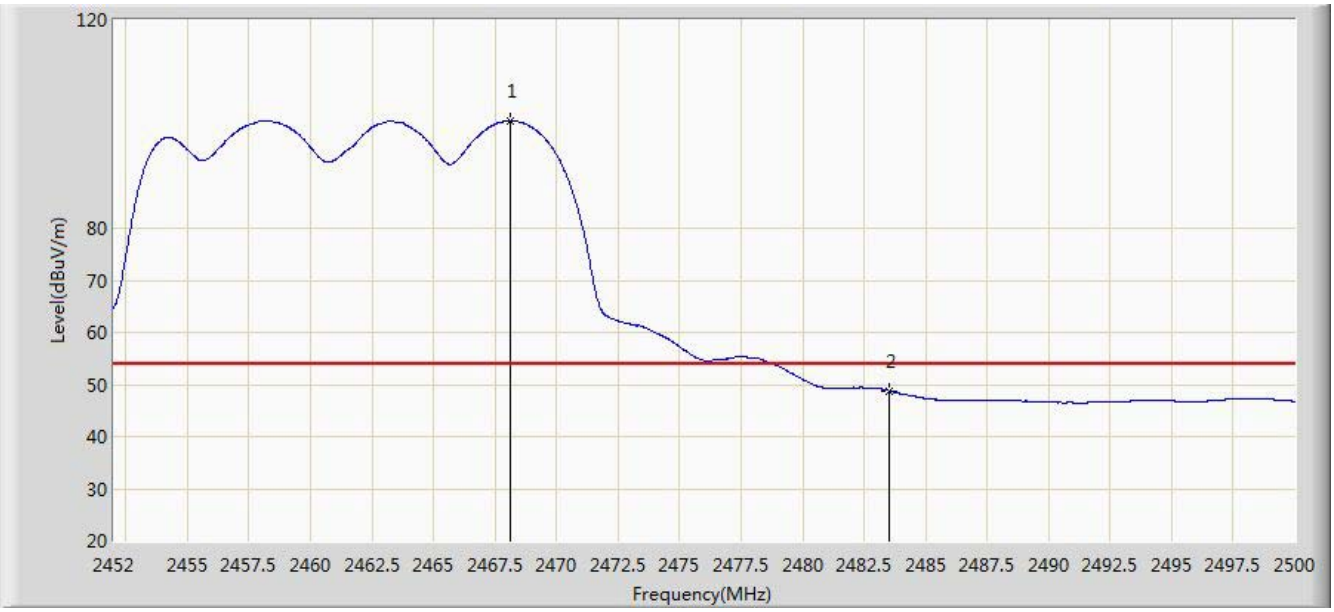


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2467.600	114.218	83.592	N/A	N/A	30.626	PK
2			2483.500	69.605	38.932	-4.395	74.000	30.673	PK
3			2484.016	71.515	40.841	-2.485	74.000	30.675	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 13:27
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 2: Transmit at channel 2462MHz by 802.11g	

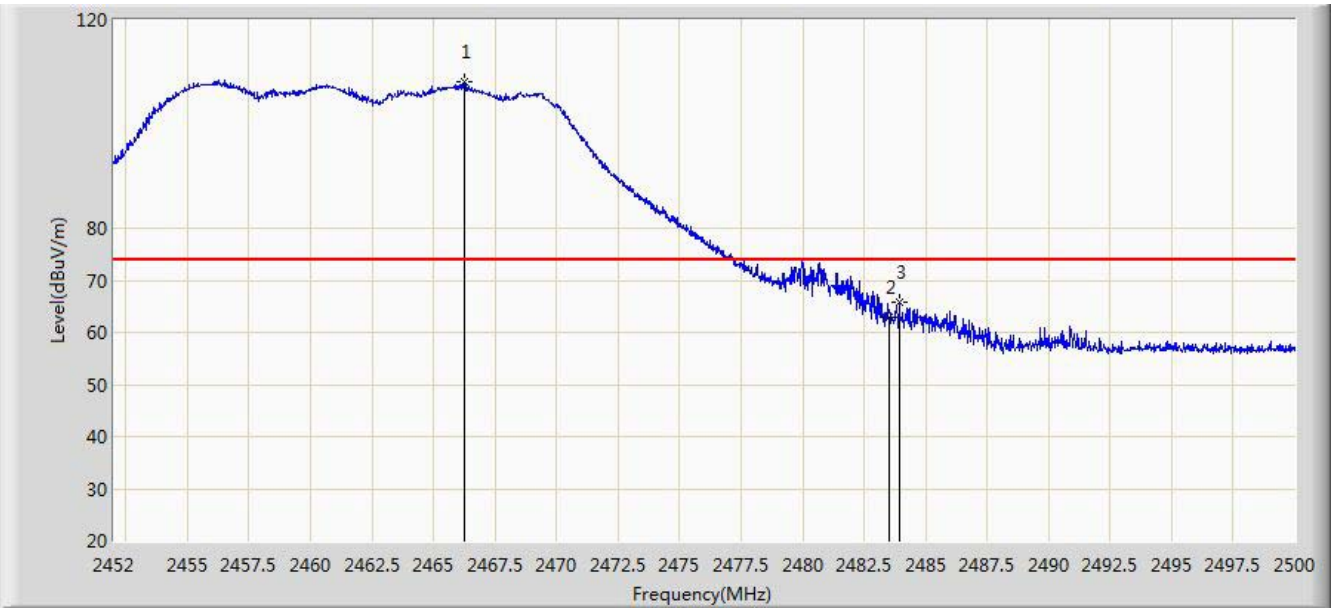


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2468.104	100.552	69.924	N/A	N/A	30.628	AV
2			2483.500	48.837	18.164	-5.163	54.000	30.673	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 13:28
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 2: Transmit at channel 2462MHz by 802.11g	

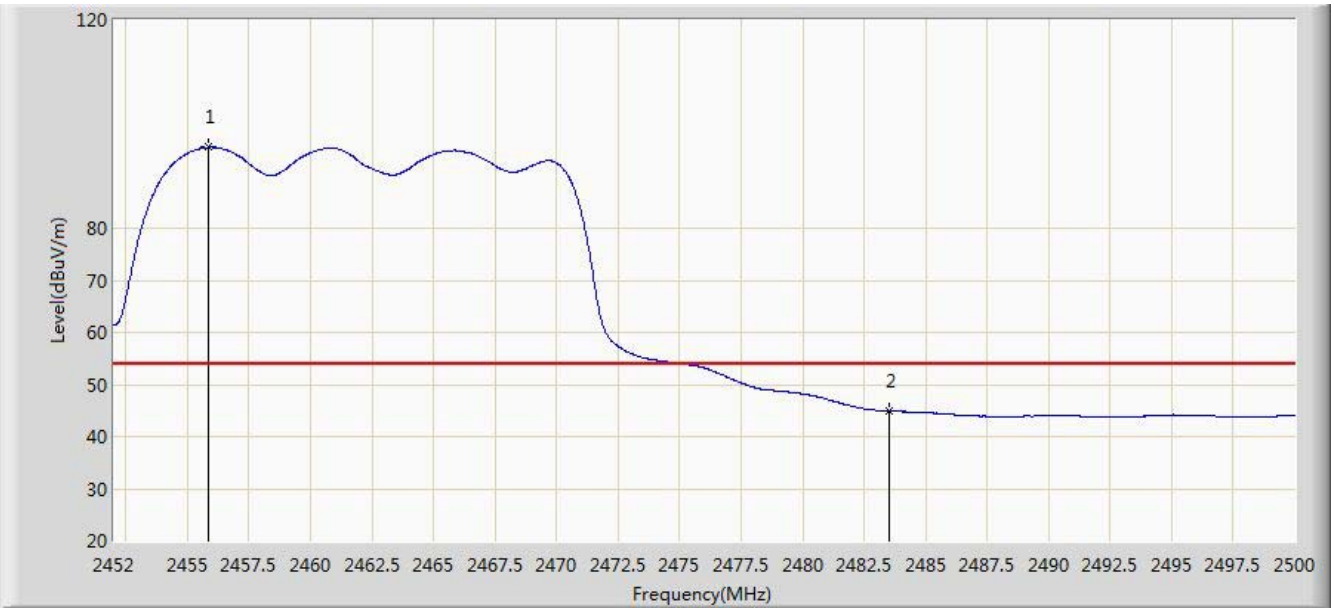


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2466.232	107.982	77.360	N/A	N/A	30.622	PK
2			2483.500	62.946	32.273	-11.054	74.000	30.673	PK
3			2483.920	65.871	35.197	-8.129	74.000	30.673	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 13:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 2: Transmit at channel 2462MHz by 802.11g	

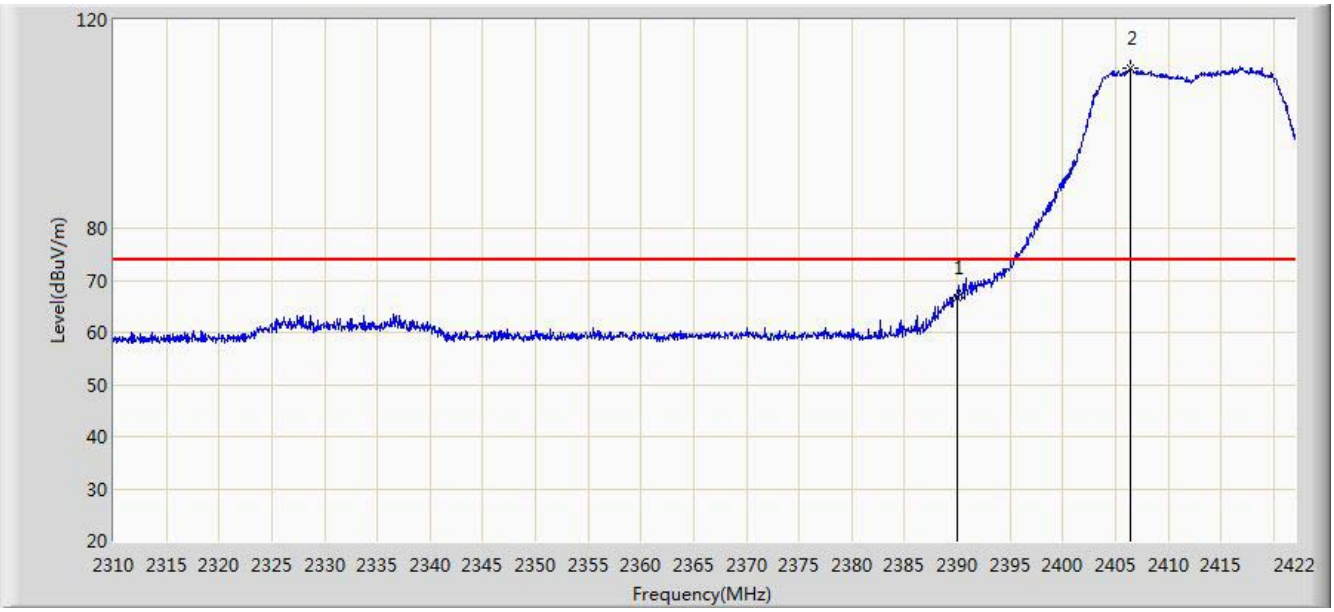


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2455.864	95.516	64.914	N/A	N/A	30.602	AV
2			2483.500	44.858	14.185	-9.142	54.000	30.673	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 13:32
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 3: Transmit at channel 2412MHz by 802.11n-HT20	

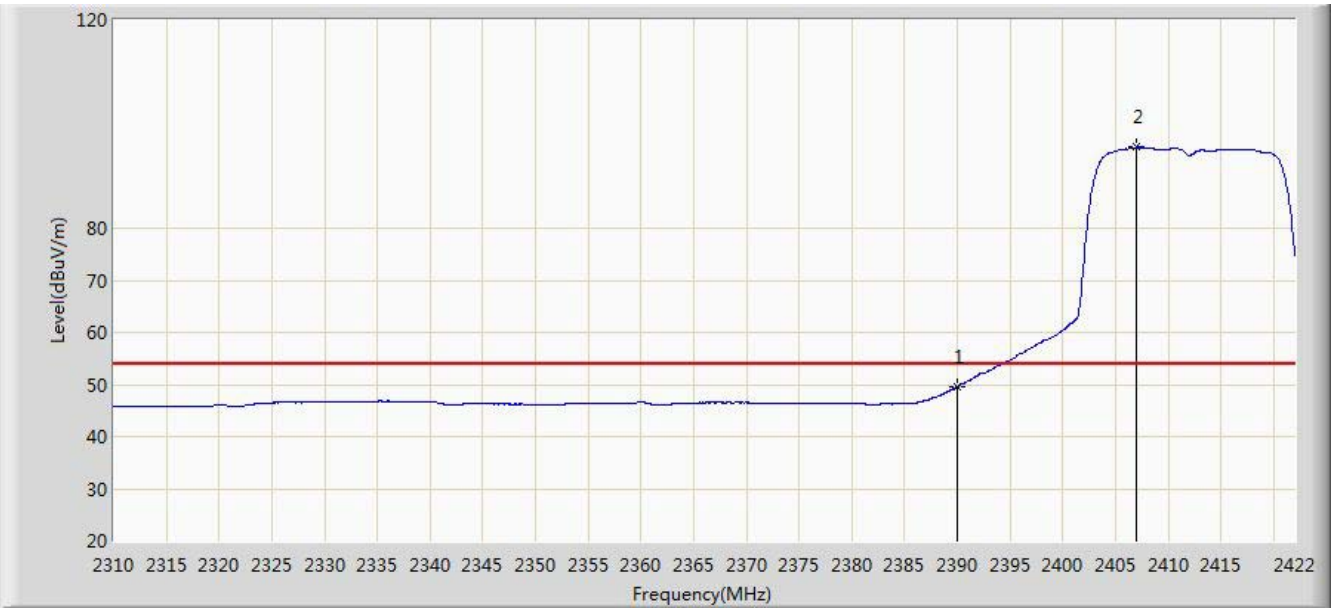


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	66.609	35.925	-7.391	74.000	30.684	PK
2		*	2406.432	110.825	80.171	N/A	N/A	30.654	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 13:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 3: Transmit at channel 2412MHz by 802.11n-HT20	

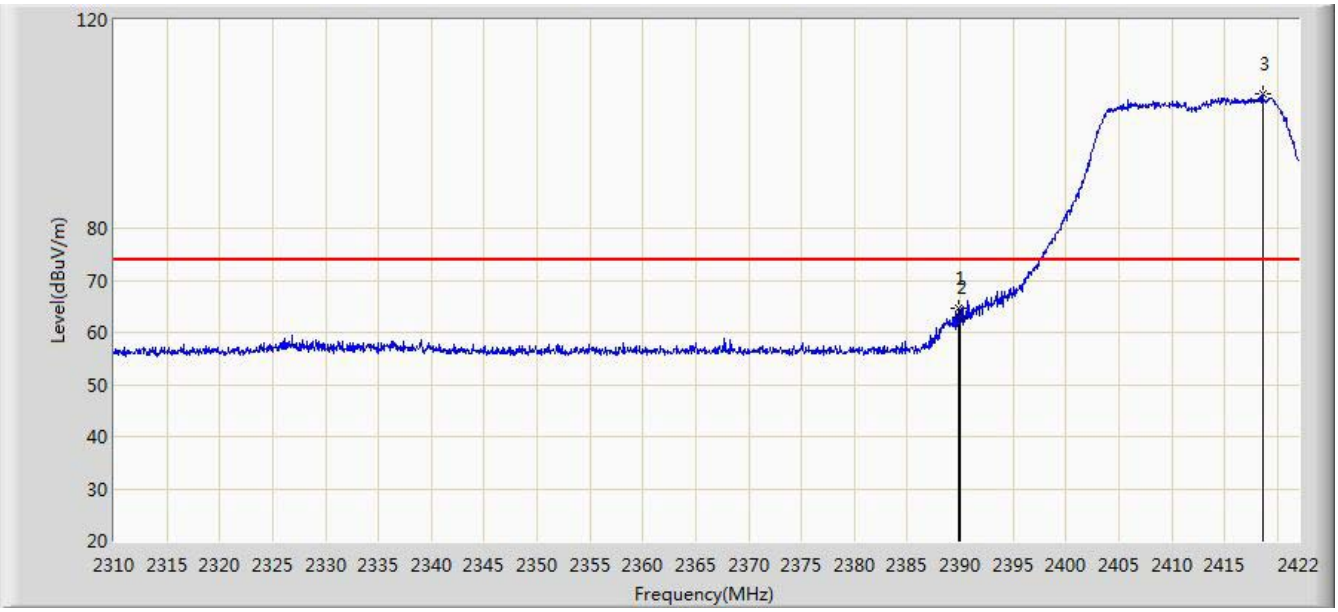


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	49.512	18.828	-4.488	54.000	30.684	AV
2		*	2406.936	95.508	64.855	N/A	N/A	30.653	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 13:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 3: Transmit at channel 2412MHz by 802.11n-HT20	

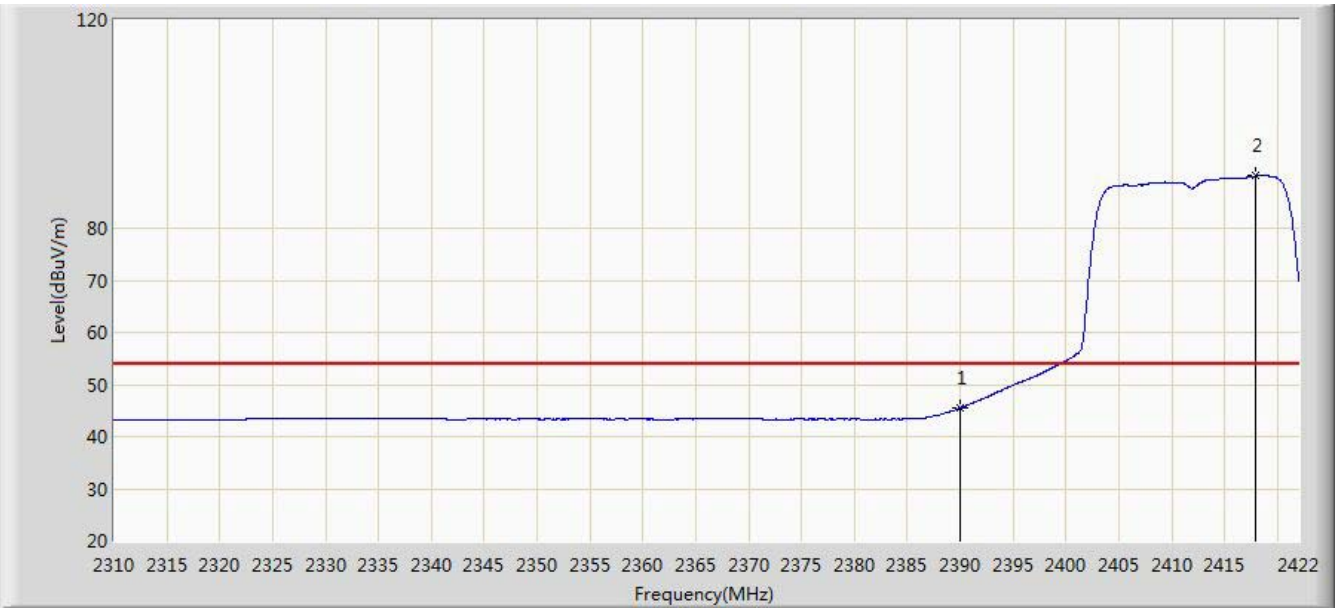


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.856	64.494	33.810	-9.506	74.000	30.684	PK
2			2390.000	62.987	32.303	-11.013	74.000	30.684	PK
3		*	2418.640	105.876	75.242	N/A	N/A	30.634	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 13:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 3: Transmit at channel 2412MHz by 802.11n-HT20	

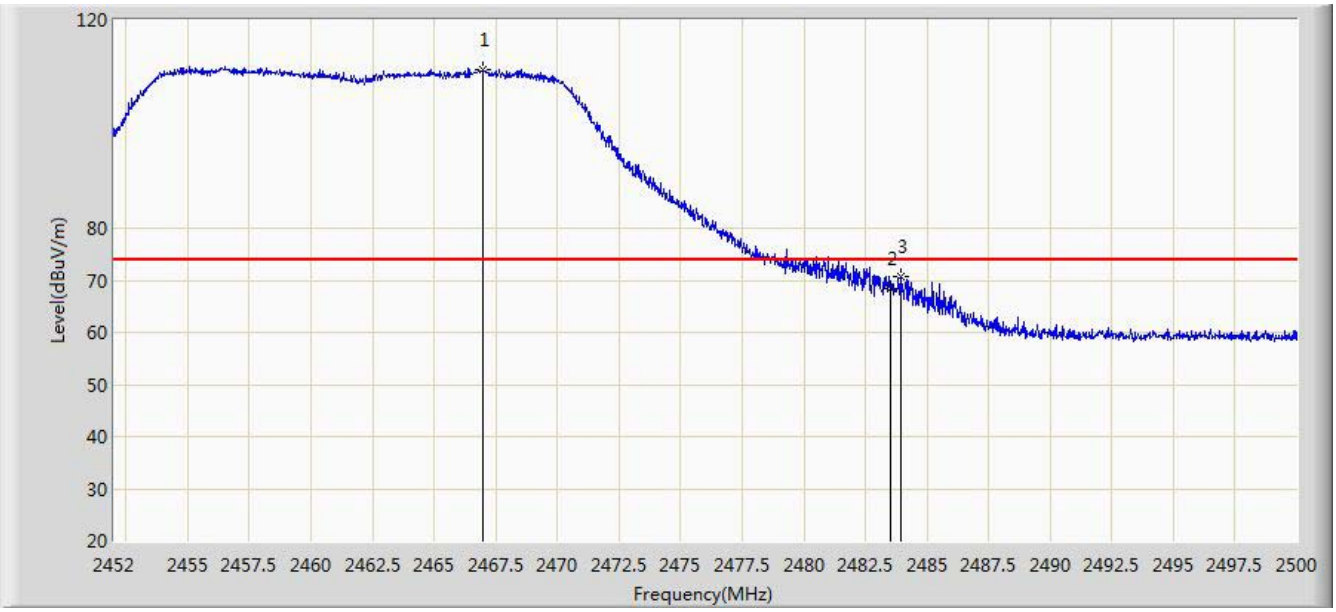


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.508	14.824	-8.492	54.000	30.684	AV
2		*	2417.968	90.035	59.400	N/A	N/A	30.636	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 13:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 3: Transmit at channel 2462MHz by 802.11n-HT20	

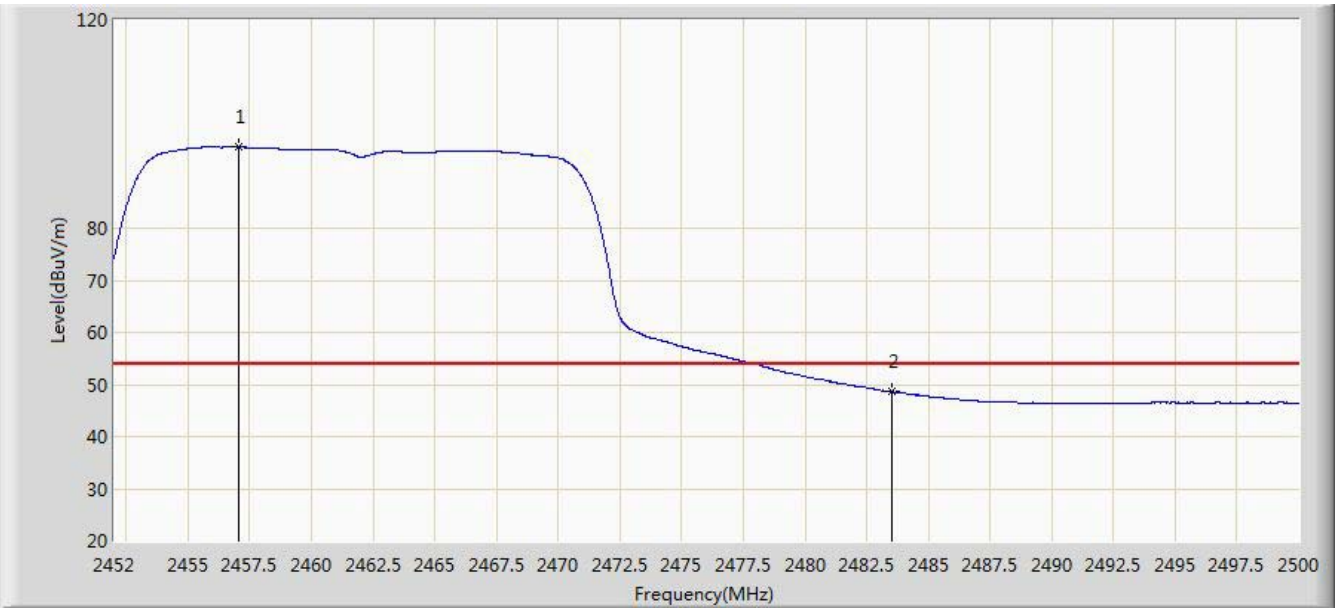


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2467.000	110.547	79.923	N/A	N/A	30.625	PK
2			2483.500	68.530	37.857	-5.470	74.000	30.673	PK
3			2483.968	70.727	40.053	-3.273	74.000	30.674	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 13:54
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 3: Transmit at channel 2462MHz by 802.11n-HT20	

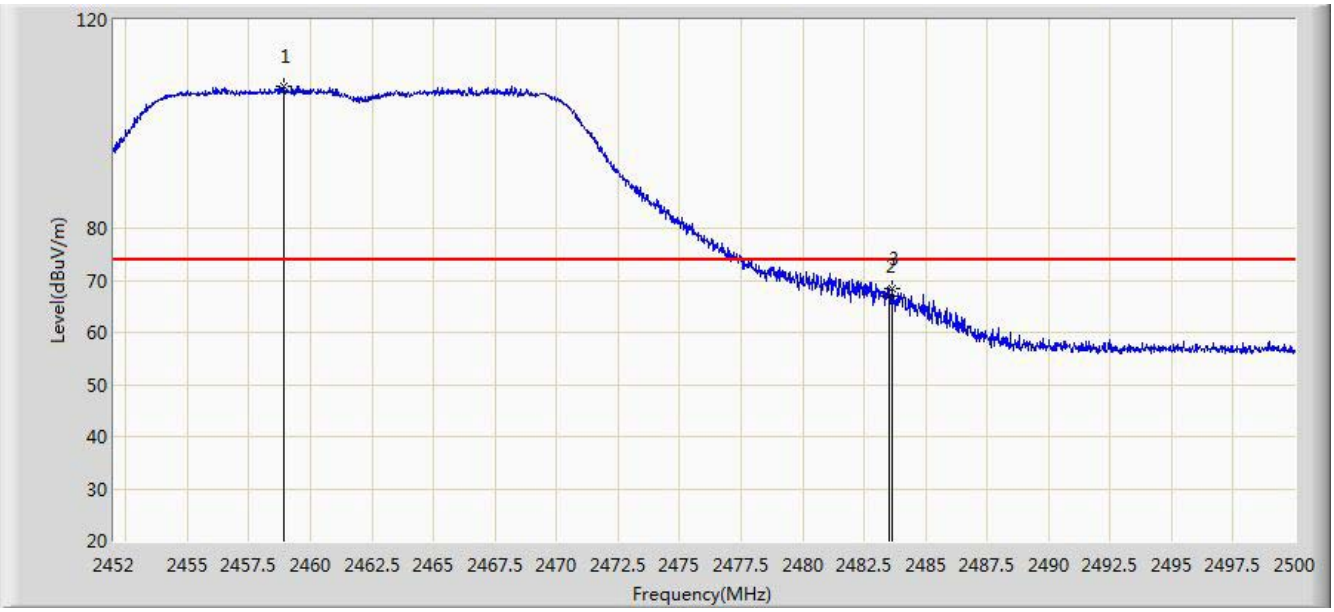


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2457.040	95.606	65.002	N/A	N/A	30.604	AV
2			2483.500	48.642	17.969	-5.358	54.000	30.673	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 13:54
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 3: Transmit at channel 2462MHz by 802.11n-HT20	

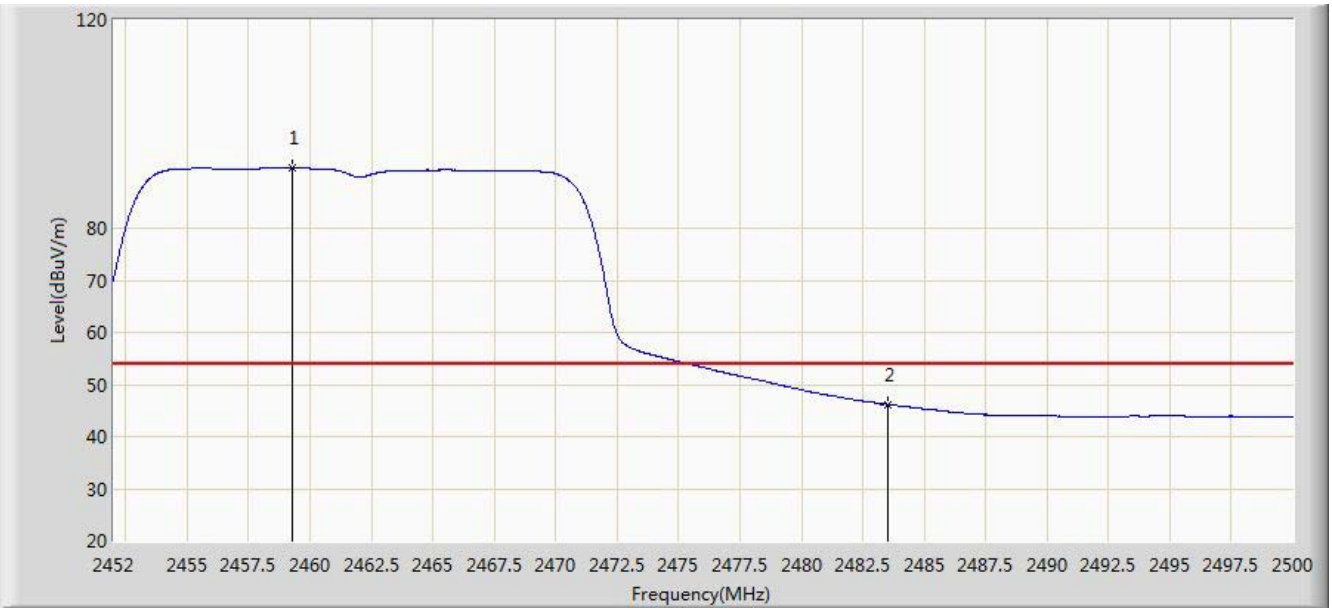


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2458.888	107.113	76.506	N/A	N/A	30.607	PK
2			2483.500	67.025	36.352	-6.975	74.000	30.673	PK
3			2483.632	68.266	37.593	-5.734	74.000	30.673	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 13:57
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 3: Transmit at channel 2462MHz by 802.11n-HT20	

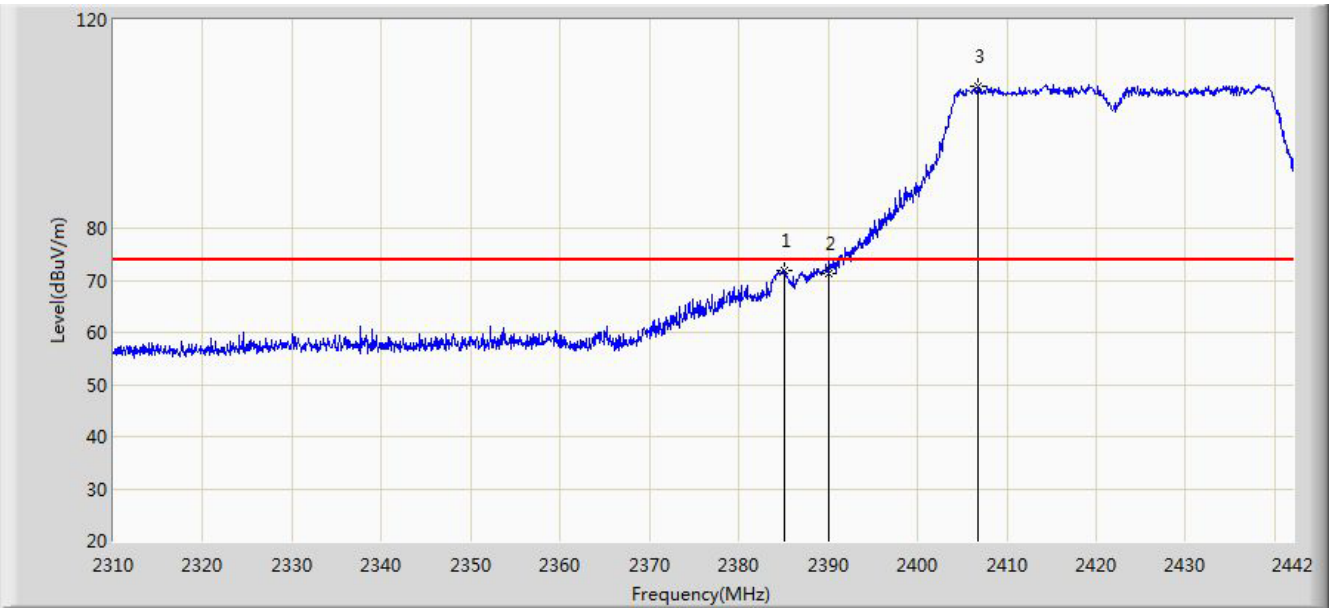


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2459.296	91.598	60.991	N/A	N/A	30.607	AV
2			2483.500	46.205	15.532	-7.795	54.000	30.673	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 14:03
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 4: Transmit at channel 2422MHz by 802.11n-HT40	

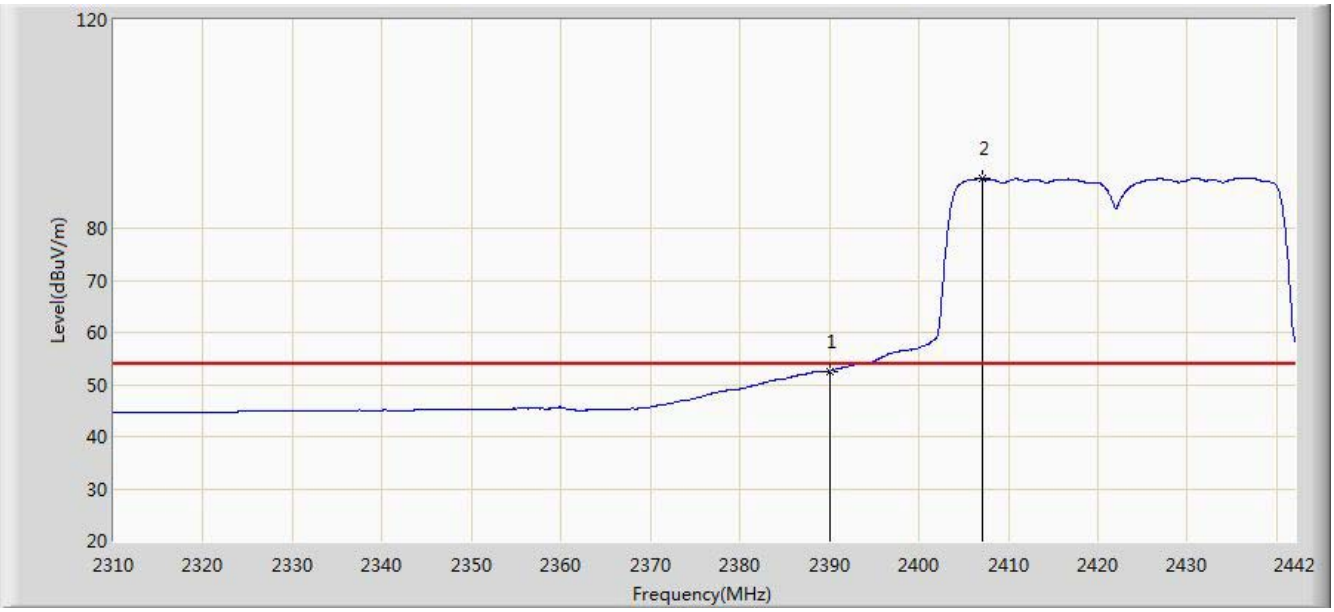


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.042	71.874	41.179	-2.126	74.000	30.695	PK
2			2390.000	71.374	40.690	-2.626	74.000	30.684	PK
3		*	2406.822	107.356	76.703	N/A	N/A	30.654	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 14:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 3: Transmit at channel 2422MHz by 802.11n-HT40	

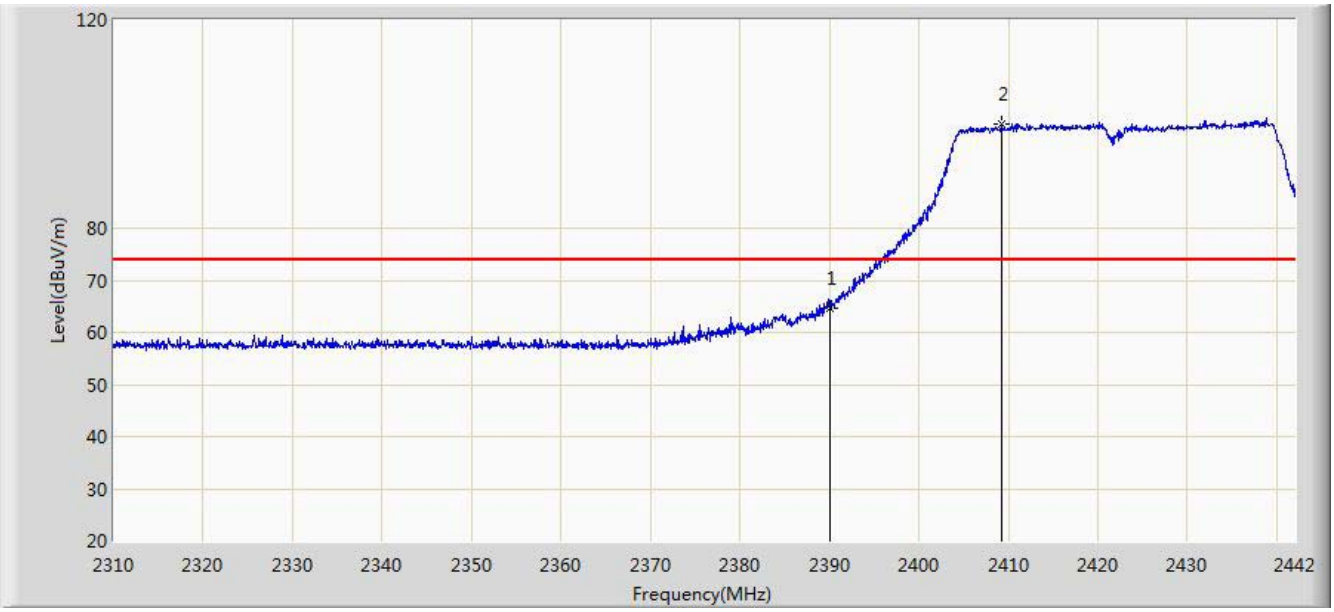


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2390.000	52.538	21.854	-1.462	54.000	30.684	AV
2			2407.020	89.608	58.955	N/A	N/A	30.653	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 14:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 4: Transmit at channel 2422MHz by 802.11n-HT40	

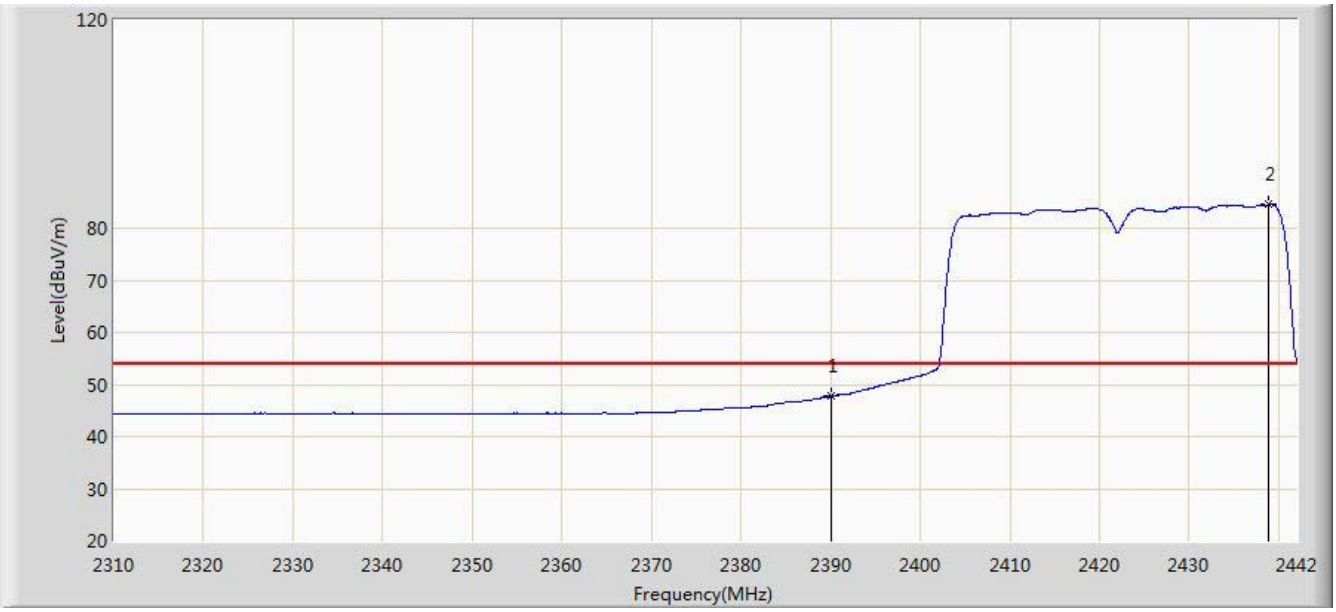


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	64.644	33.960	-9.356	74.000	30.684	PK
2		*	2409.330	100.143	69.494	N/A	N/A	30.649	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 14:56
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 4: Transmit at channel 2422MHz by 802.11n-HT40	

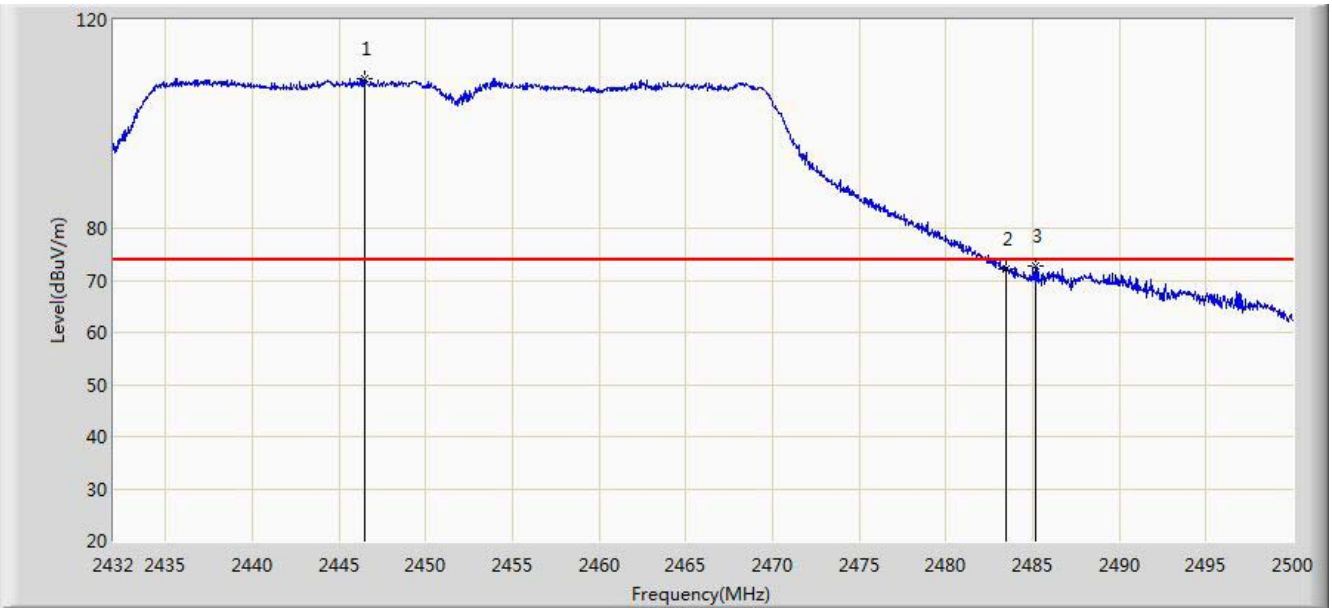


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	47.726	17.042	-6.274	54.000	30.684	AV
2		*	2438.832	84.512	53.911	N/A	N/A	30.601	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 14:57
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 4: Transmit at channel 2452MHz by 802.11n-HT40	

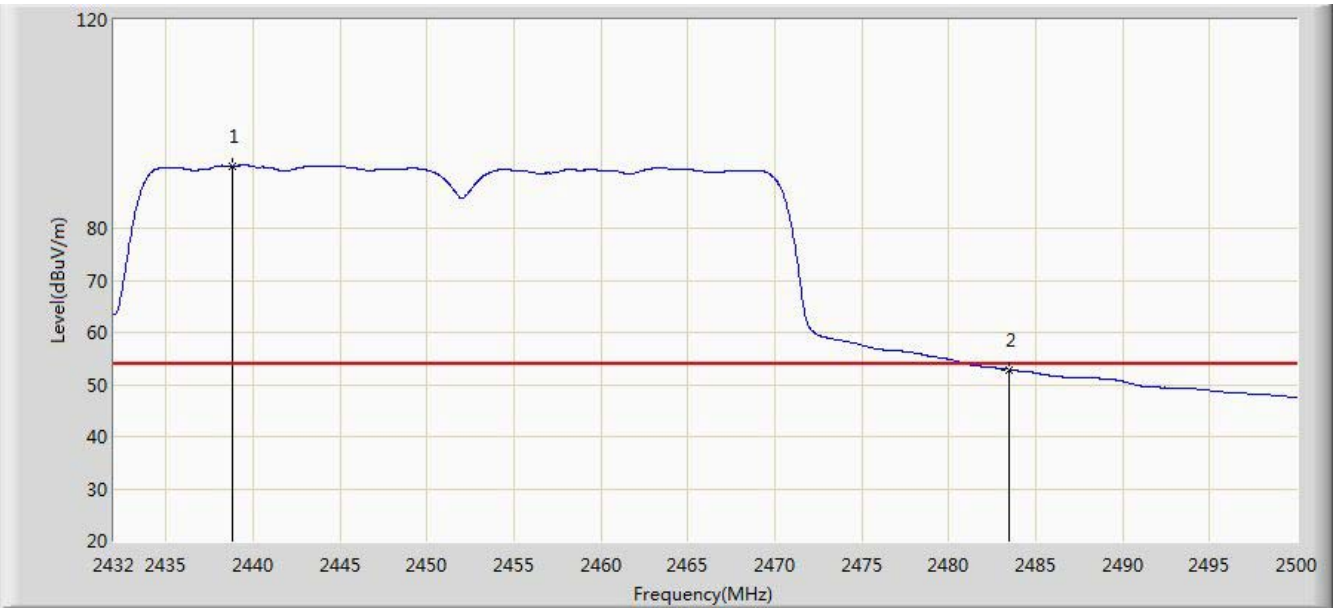


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2446.450	108.725	78.137	N/A	N/A	30.588	PK
2			2483.500	72.229	41.556	-1.771	74.000	30.673	PK
3			2485.142	72.879	42.202	-1.121	74.000	30.678	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 15:02
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 4: Transmit at channel 2452MHz by 802.11n-HT40	

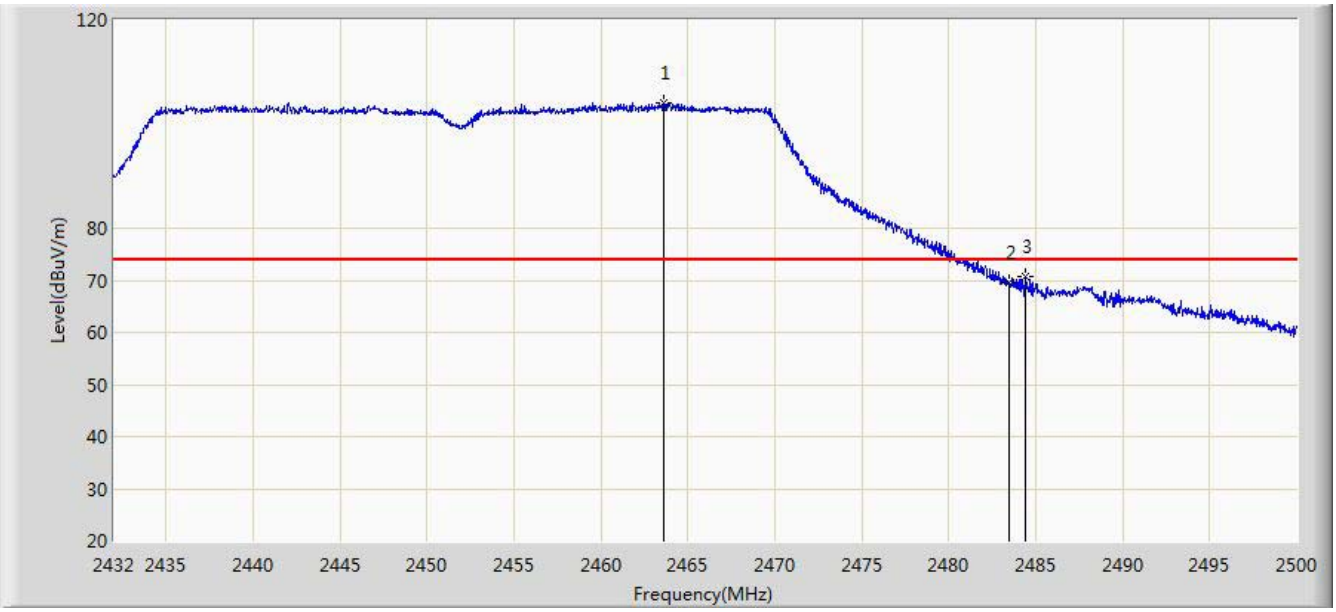


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2438.834	91.908	61.307	N/A	N/A	30.601	AV
2			2483.500	52.872	22.199	-1.128	54.000	30.673	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 15:03
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 4: Transmit at channel 2452MHz by 802.11n-HT40	

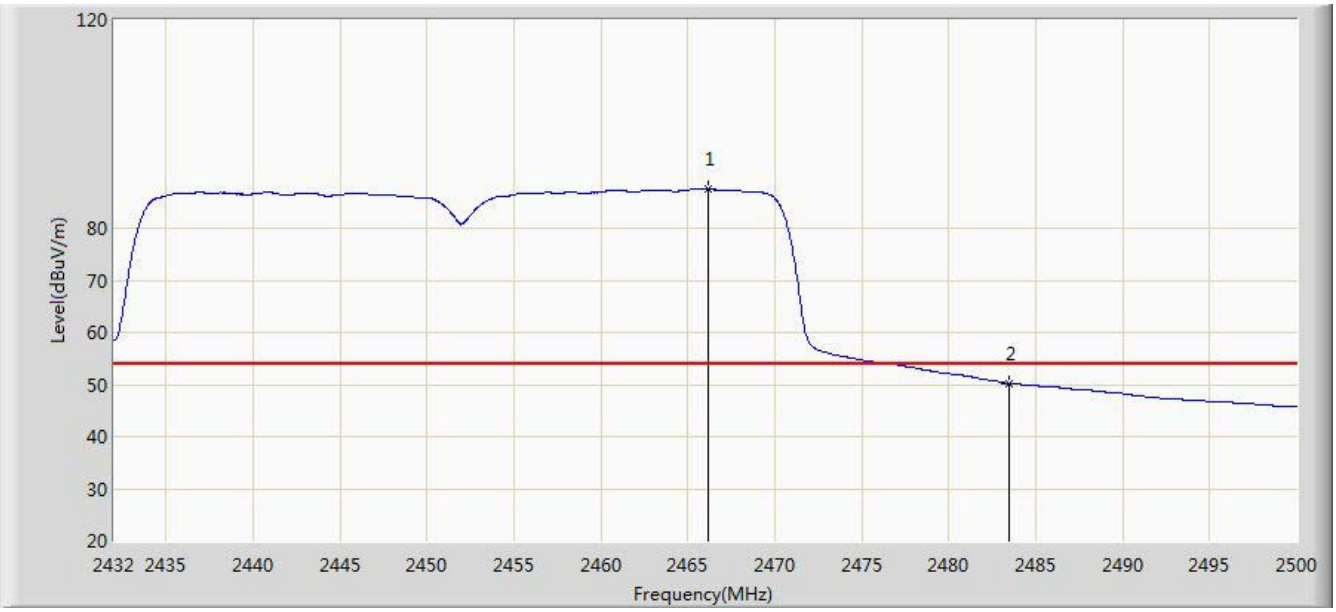


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.654	104.102	73.487	N/A	N/A	30.615	PK
2			2483.500	69.650	38.977	-4.350	74.000	30.673	PK
3			2484.394	70.768	40.093	-3.232	74.000	30.675	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC1	Time: 2014/12/02 - 15:05
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Chen
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: High performance dual band 2x2 802.11n indoor AP	Power: AC 120V/60Hz
Mode 4: Transmit at channel 2452MHz by 802.11n-HT40	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2466.136	87.462	56.840	N/A	N/A	30.622	AV
2			2483.500	50.200	19.527	-3.800	54.000	30.673	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

7.8. AC Conducted Emissions Measurement

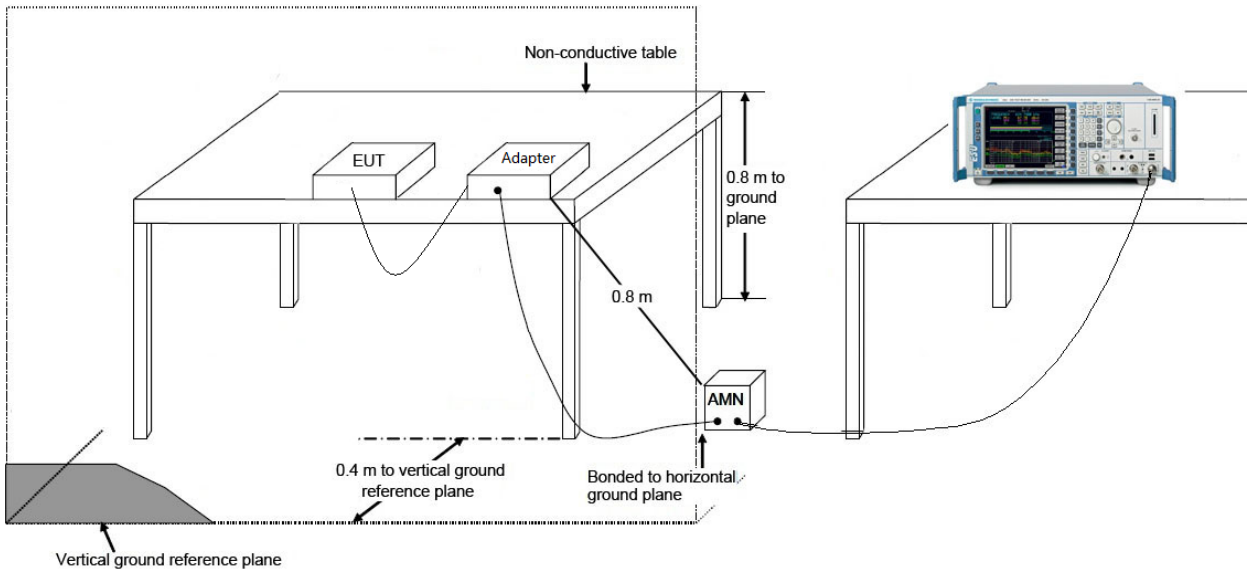
7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3. Test Result

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

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **High performance dual band 2x2 802.11n indoor AP FCC ID: SFK-WF122** is in compliance with Part 15C of the FCC Rules.

The End