



7.5. Conducted Band Edge and Out-of-Band Emissions

7.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental

emission level, as determined from the in-band power measurement of the DTS channel

performed in a 100kHz bandwidth per the PSD procedure.

7.5.2. Test Procedure Used

KDB 558074 D01v03r03 - Section 11.2 & Section 11.3

7.5.3. Test Settitng

1. Reference level measurement

- (a) Set instrument center frequency to DTS channel center frequency
- (b) Set the span to \geq 1.5 times the DTS bandwidth
- (c) Set the RBW = 100 kHz
- (d) Set the VBW \geq 3 x RBW
- (e) Detector = peak
- (f) Sweep time = auto couple
- (g) Trace mode = max hold
- (h) Allow trace to fully stabilize

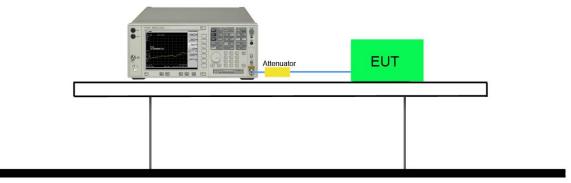
2. Emission level measurement

- (a) Set the center frequency and span to encompass frequency range to be measured
- (b) RBW = 100kHz
- (c) VBW = 300kHz
- (d) Detector = Peak
- (e) Trace mode = max hold
- (f) Sweep time = auto couple
- (g) The trace was allowed to stabilize



7.5.4. Test Setup

Spectrum Analyzer

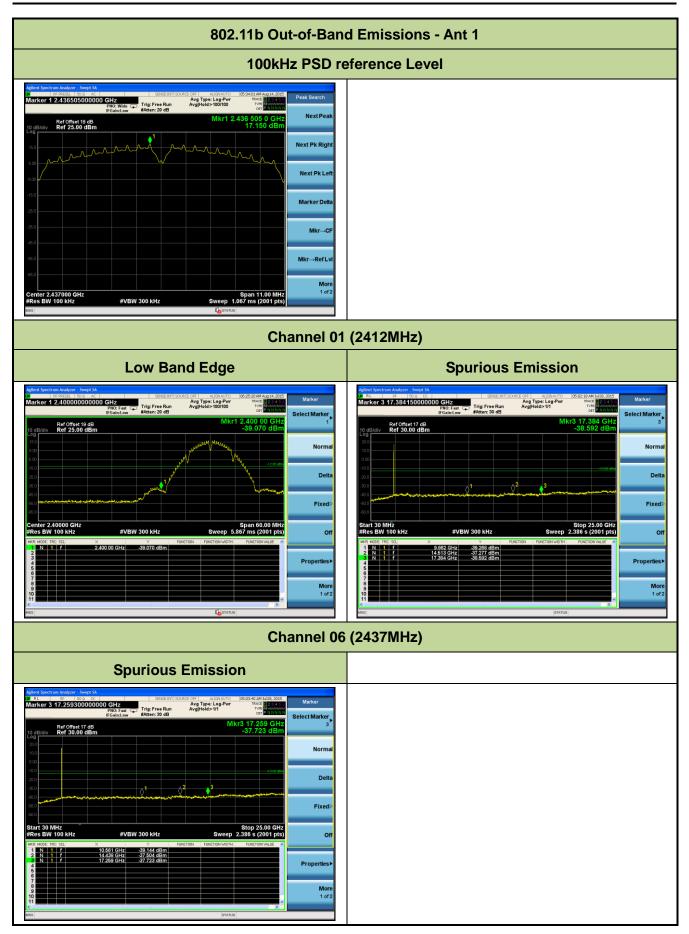




7.5.5. Test Result

Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	Limit	Result	
Ant 1						
802.11b	1	01	2412	30dBc	Pass	
802.11b	1	06	2437	30dBc	Pass	
802.11b	1	11	2462	30dBc	Pass	
802.11g	6	01	2412	30dBc	Pass	
802.11g	6	06	2437	30dBc	Pass	
802.11g	6	11	2462	30dBc	Pass	
802.11n-HT20	6.5	01	2412	30dBc	Pass	
802.11n-HT20	6.5	06	2437	30dBc	Pass	
802.11n-HT20	6.5	11	2462	30dBc	Pass	
802.11n-HT40	13.5	03	2422	30dBc	Pass	
802.11n-HT40	13.5	06	2437	30dBc	Pass	
802.11n-HT40	13.5	09	2452	30dBc	Pass	
Ant 2	Ant 2					
802.11b	1	01	2412	30dBc	Pass	
802.11b	1	06	2437	30dBc	Pass	
802.11b	1	11	2462	30dBc	Pass	
802.11g	6	01	2412	30dBc	Pass	
802.11g	6	06	2437	30dBc	Pass	
802.11g	6	11	2462	30dBc	Pass	
802.11n-HT20	6.5	01	2412	30dBc	Pass	
802.11n-HT20	6.5	06	2437	30dBc	Pass	
802.11n-HT20	6.5	11	2462	30dBc	Pass	
802.11n-HT40	13.5	03	2422	30dBc	Pass	
802.11n-HT40	13.5	06	2437	30dBc	Pass	
802.11n-HT40	13.5	09	2452	30dBc	Pass	

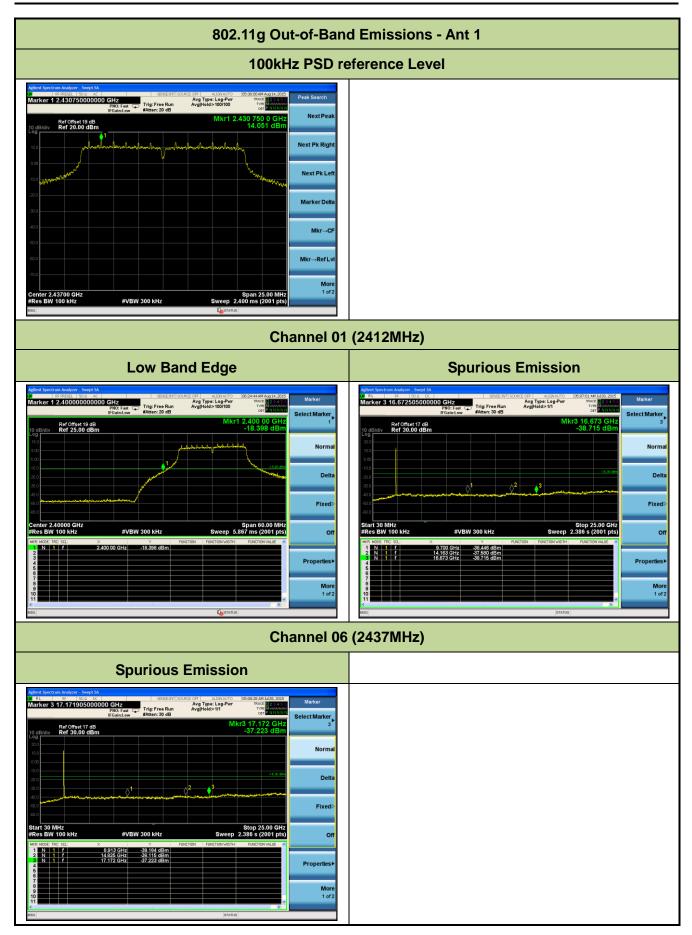






Channel 11 (2462MHz)				
High Band Edge	Spurious Emission			
Marker 1 z.483500000000 GHz Fig Free Run Fig Free Run Ber Offer 13 /B Ref Offer 13 /B Ref Offer 13 /B Ref Offer 13 /B	Agtent Spectrum Analyzer - Swept SA. Tarker Marker 3 46. 76448 70000000 GHz PRO Task Ct Marker 3 46. 76448 70000000 GHz PRO Task Ref Omeet 7 dB Ref 0 del 417 dB Ref 0 dB R			
0.048/dW Ref 25.00 dBm -51.696 dBm	10.0 dB/div Ref 30.00 dBm ~38.054 QBm Normal 200			
	Detta			
	Fixed:			
Center 2.48350 GHz Span 80.00 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 7.733 ms (2001 pts)	Start 30 MHz Stop 25.00 GHz orr #Res BW 100 kHz #VBW 300 kHz Sweep 2.386 s (2001 pts) orr			
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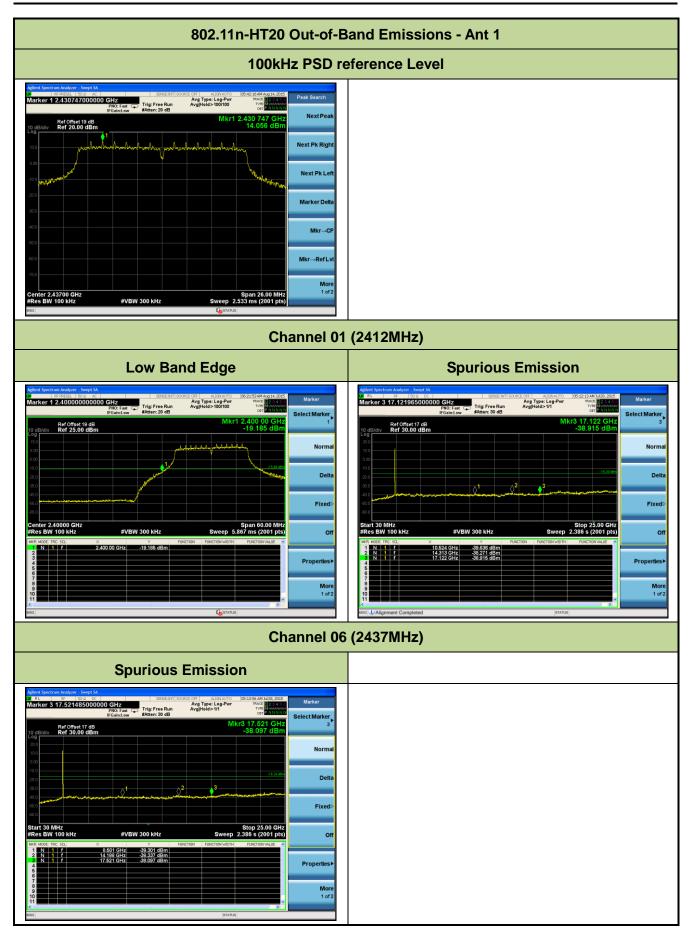






Channel 11 (2462MHz)				
High Band Edge	Spurious Emission			
Agelend Spectrum Analyzer - Swegt 5A 19 PRESE, 50 AC Marker 1 2.483500000000 GHz PRO: Last PRO: PRO: PRO: Last PRO: Last PRO: Last PRO: Last PRO: PRO: PRO: Last PRO: PRO: PRO: PRO: PRO: PRO: PRO: PRO:	Agient Spectrum Analyzer / Swept 5A Spectrum Analyzer / Swept 5A Marker 0F 80 a 60 and to the state of the state			
	Normal 100<			
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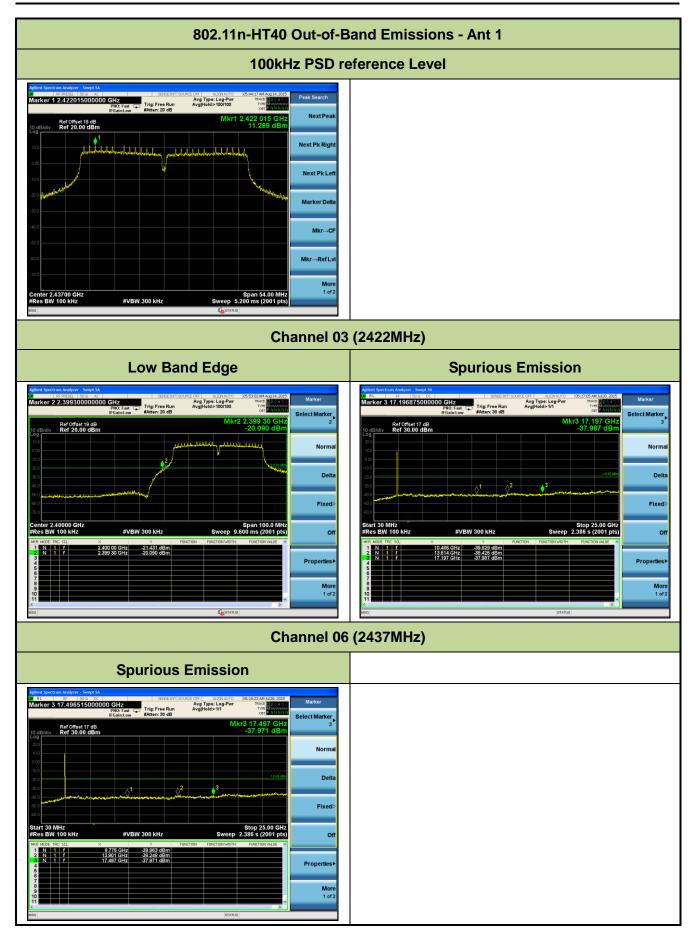






High Band Edge	Spurious Emission
Instruction September Subject of Subject o	DE RL RF 50.2 DC SENSE:INT SOURCE OFF ALIGNAUTO (05:15:32 AM 3428, 2015 Marker 3 17.396635000000 GHz Avg Type: Log-Pwr Trace 12.3.5.3 A
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n dBurk RefUnitely abs 199 199 197 197 197 197 197 197	No realizity Ref 30.00 dBm -37.224 dBm 200
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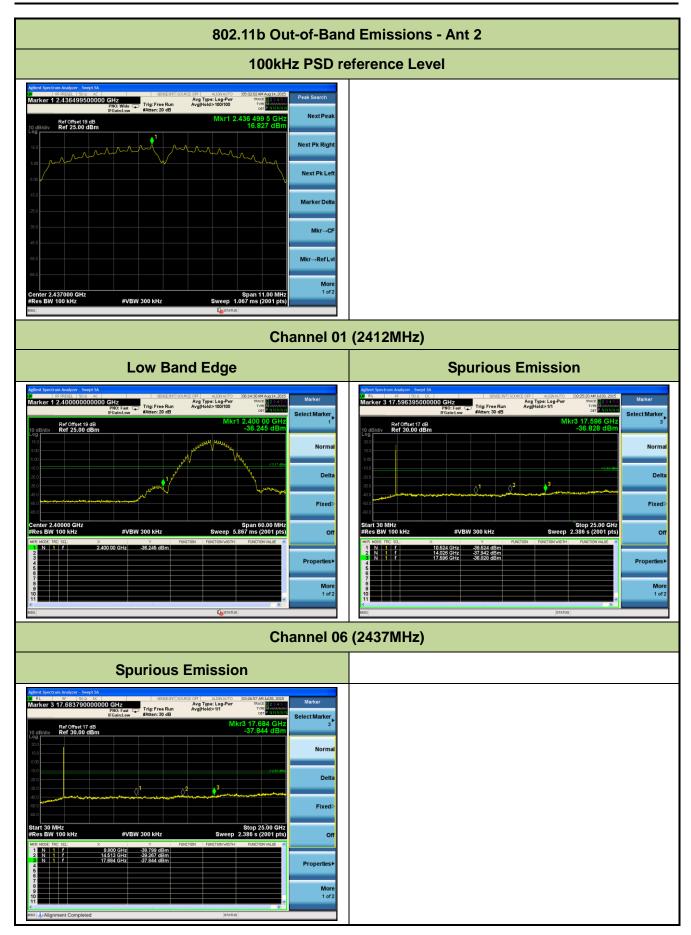






Channel 09 (2452MHz)				
High Band Edge	Spurious Emission			
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800 700	600 Fixed>			
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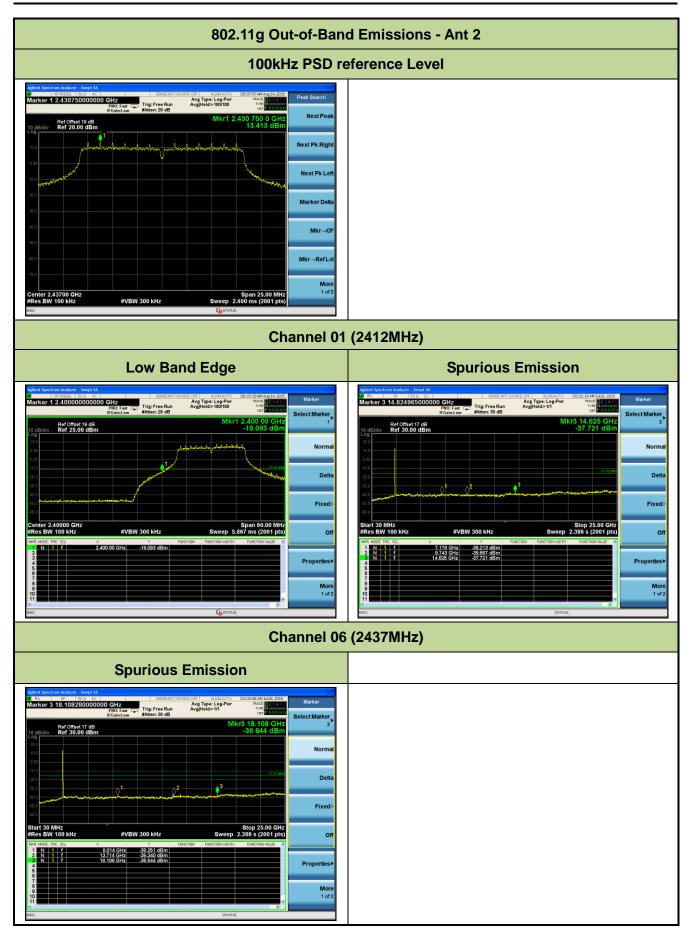






Channel 11 (2462MHz)				
High Band Edge		Spurious Emission		
Addref Spectrum Analyzer - Swigt 5A Spectrum (Source OF) Alstrautro 06:13:444M Augit Az 13 16 FREE 100 Az Arg Type: Log-Pwr Aug Type: Log-Pwr PMAC 22.28 Marker 1 2.483500000000 GHz Trigs Free Rum Avg Type: Log-Pwr PMAC 22.28 PHO: Fact Trigs Free Rum Avg Type: Log-Pwr PMAC 22.28 10 or Baldie Ref Offset 19 4/B SO GHD 53.1855 GBT 555 GBT	Select Marker	Addrest Spectrum Analyzer Sweet SA Sold Ext [Sold OF] Alsolution Operating Sold Sold Sold Sold Sold Sold Sold Sold		
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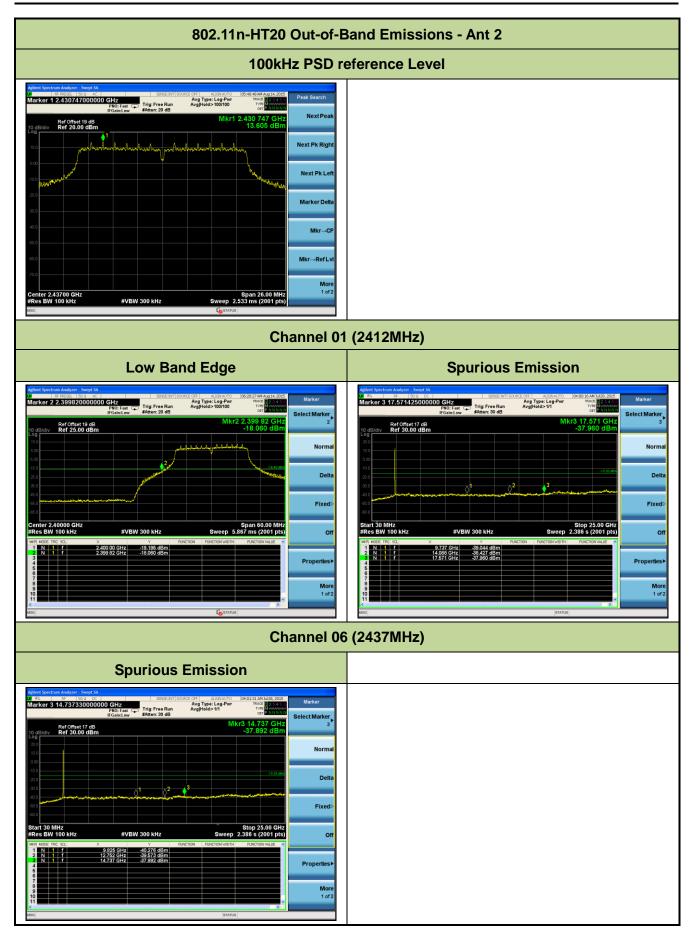






Channel 11 (2462MHz)				
High Band Edge	Spurious Emission			
Ref Offset 19 dB Mkr1 2.483 50 GHz	Ref Offset 17 dB Mkr3 17.646 GHz	Marker elect Marker		
10 dB(dW Ref 25.00 dBm -46.517 dBm	10 detd/v Ref 30.00 dBm -37.891 dBm Normal 200	Normal		
	Delta	Delta		
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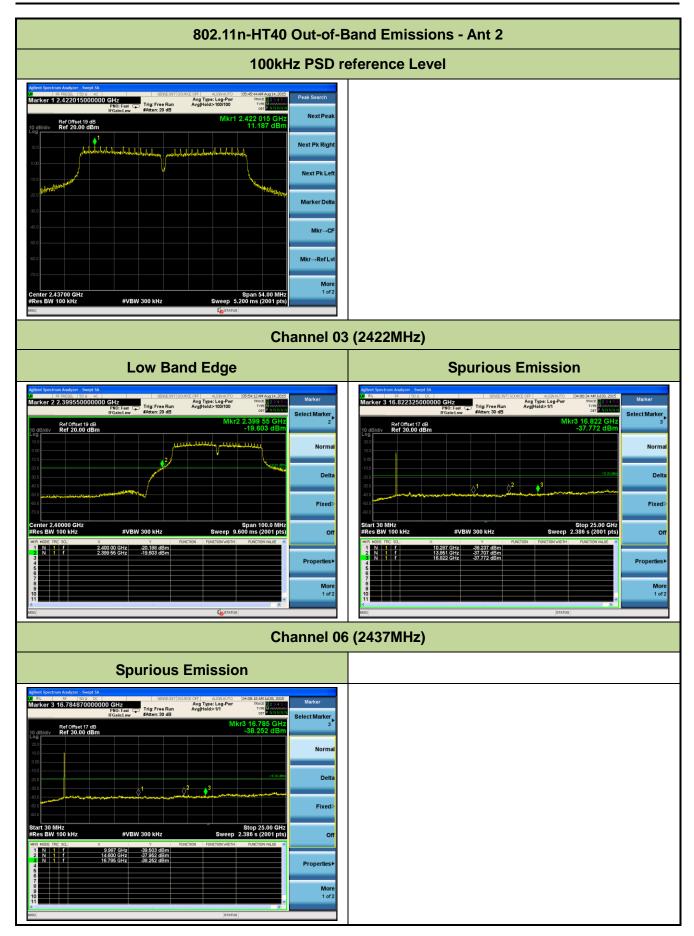






Channel 11 (2462MHz)				
High Band Edge	Spurious Emission			
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Channel 09 (2452MHz)					
High Ban	d Edge		Spurious E	Emission	
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Center 2.48350 GHz #Res BW 100 kHz #VBW 300 kHz	Span 120.0 MHz Sweep 11.60 ms (2001 pts) Of	Start 30 MHz #Res BW 100 kHz	#VBW 300 kHz	Stop 25.00 GHz Sweep 2.386 s (2001 pts)	off
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8 9 10 11	Mor 1 of:	8 9 10 11		2	More 1 of 2
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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 D01v03r03 - Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v03r03 - Section 12.2.4 (peak power measurements)

KDB 558074 D01v03r03 - Section 12.2.5 (average power measurements)

7.6.3. Test Setting

Peak Field Strength Measurements per Section 12.2.4 of KDB 558074 D01v03r03

- 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	

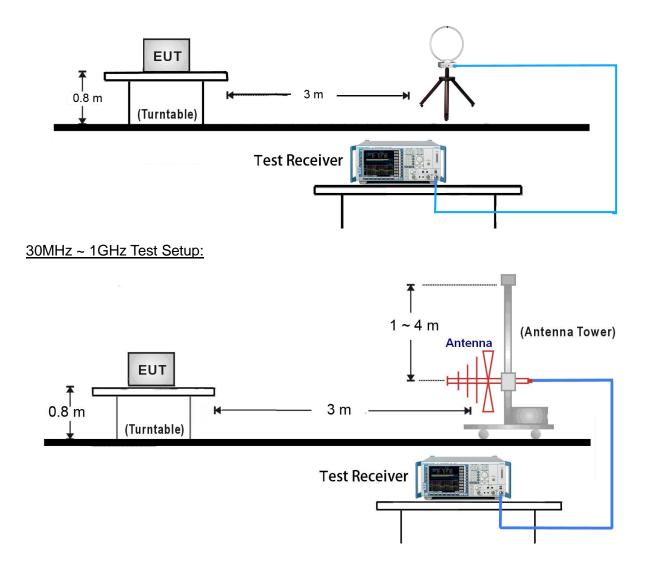
Average Field Strength Measurements per Section 12.2.5.3 of KDB 558074 D01v03r03

- 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



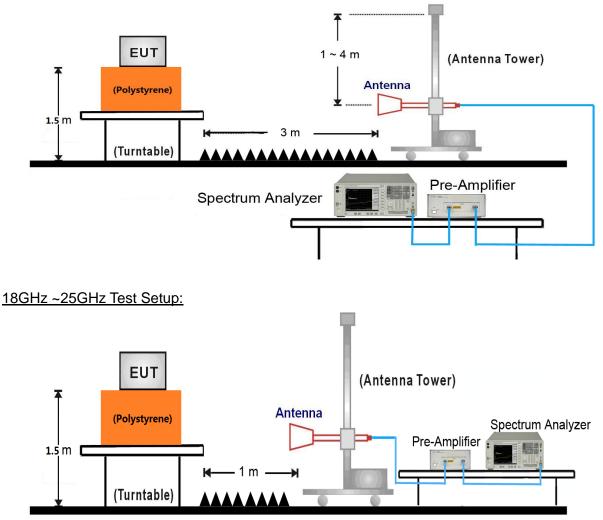
7.6.4. Test Setup

9kHz ~ 30MHz Test Setup:











7.6.5. Test Result

Test Mode:	802.11b – Ant 1	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	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4825.0	40.4	2.7	43.1	74.0	-30.9	Peak	Horizontal
	5360.5	37.9	3.0	40.9	74.0	-33.1	Peak	Horizontal
*	7239.0	40.5	7.8	48.3	89.1	-40.8	Peak	Horizontal
*	8684.0	37.1	9.0	46.1	89.1	-43.0	Peak	Horizontal
	4825.0	39.2	2.7	41.9	74.0	-32.1	Peak	Vertical
	7290.0	37.8	8.0	45.8	74.0	-28.2	Peak	Vertical
*	8828.5	36.4	9.1	45.5	89.1	-43.6	Peak	Vertical
*	9831.5	35.6	11.6	47.2	89.1	-41.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (119.1dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11b – Ant 1	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	 Average measurement was no limit. Other frequency was 20dB bel in the report. 		Ç

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4876.0	47.5	2.7	50.2	74.0	-23.8	Peak	Horizontal
	7307.0	40.1	8.0	48.1	74.0	-25.9	Peak	Horizontal
*	8675.5	37.3	8.9	46.2	90.4	-44.2	Peak	Horizontal
*	9610.5	35.9	10.9	46.8	90.4	-43.6	Peak	Horizontal
	4876.0	44.6	2.7	47.3	74.0	-26.7	Peak	Vertical
	7307.0	38.4	8.0	46.4	74.0	-27.6	Peak	Vertical
*	8794.5	36.8	8.9	45.7	90.4	-44.7	Peak	Vertical
*	9576.5	36.2	10.9	47.1	90.4	-43.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (120.4dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11b – Ant 1	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	 Average measurement was no limit. Other frequency was 20dB bel in the report. 		, , , , , , , , , , , , , , , , , , ,

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4927.0	48.3	2.8	51.1	74.0	-22.9	Peak	Horizontal
	7281.5	38.2	8.0	46.2	74.0	-27.8	Peak	Horizontal
*	8786.0	36.7	8.9	45.6	90.6	-45.0	Peak	Horizontal
*	9882.5	35.0	11.6	46.6	90.6	-44.0	Peak	Horizontal
	4927.0	48.9	2.8	51.7	74.0	-22.3	Peak	Vertical
	7349.5	38.0	8.0	46.0	74.0	-28.0	Peak	Vertical
*	8769.0	36.2	8.9	45.1	90.6	-45.5	Peak	Vertical
*	9678.5	35.9	10.9	46.8	90.6	-43.8	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (120.6dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11g – Ant 1	Test Site:	AC1
Test Channel:	01	Test Engineer:	Roy Cheng
Remark:	 Average measurement was no limit. Other frequency was 20dB bel in the report. 		C C

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
		(dBµV)	(ub)	(dBµV/m)	(dbµv/m)	(UD)		
	4816.5	39.6	2.7	42.3	74.0	-31.7	Peak	Horizontal
	5411.5	35.8	3.2	39.0	74.0	-35.0	Peak	Horizontal
*	7222.0	40.0	7.8	47.8	91.9	-44.1	Peak	Horizontal
*	8709.5	36.7	9.0	45.7	91.9	-46.2	Peak	Horizontal
	4842.0	37.7	2.7	40.4	74.0	-33.6	Peak	Vertical
	7273.0	38.1	8.0	46.1	74.0	-27.9	Peak	Vertical
*	7927.5	38.6	8.5	47.1	91.9	-44.8	Peak	Vertical
*	9721.0	35.7	11.1	46.8	91.9	-45.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (121.9dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11g – Ant 1	Test Site:	AC1			
Test Channel:	06	Test Engineer: Roy Cheng				
Remark:	 Average measurement was no limit. Other frequency was 20dB bel in the report. 		C C			

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	4884.5	44.8	2.7	47.5	74.0	-26.5	Peak	Horizontal
	7307.0	38.5	8.0	46.5	74.0	-27.5	Peak	Horizontal
*	8692.5	36.4	9.0	45.4	91.8	-46.4	Peak	Horizontal
*	9806.0	35.4	11.5	46.9	91.8	-44.9	Peak	Horizontal
	4884.5	42.0	2.7	44.7	74.0	-29.3	Peak	Vertical
	7460.0	37.3	8.1	45.4	74.0	-28.6	Peak	Vertical
*	8607.5	36.8	8.8	45.6	91.8	-46.2	Peak	Vertical
*	9780.5	36.0	11.4	47.4	91.8	-44.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (121.8dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11g – Ant 1	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	 Average measurement was no limit. Other frequency was 20dB bel in the report. 		, , , , , , , , , , , , , , , , , , ,

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4910.0	46.5	2.7	49.2	74.0	-24.8	Peak	Horizontal
	7383.5	39.2	7.9	47.1	74.0	-26.9	Peak	Horizontal
*	8769.0	36.9	8.9	45.8	91.5	-45.7	Peak	Horizontal
*	9763.5	34.7	11.4	46.1	91.5	-45.4	Peak	Horizontal
	4918.5	47.2	2.8	50.0	74.0	-24.0	Peak	Vertical
	7570.5	35.7	8.2	43.9	74.0	-30.1	Peak	Vertical
*	8862.5	37.3	9.1	46.4	91.5	-45.1	Peak	Vertical
*	9593.5	35.5	10.9	46.4	91.5	-45.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (121.5dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11n-HT20 – Ant 1	Test Site:	AC1					
Test Channel:	01	Test Engineer:	Roy Cheng					
Remark:	1. Average measurement was no	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	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4825.0	41.3	2.7	44.0	74.0	-30.0	Peak	Horizontal
	5437.0	36.9	3.4	40.3	74.0	-33.7	Peak	Horizontal
*	7230.5	39.0	7.8	46.8	91.2	-44.4	Peak	Horizontal
*	8658.5	36.7	8.8	45.5	91.2	-45.7	Peak	Horizontal
	4816.5	38.3	2.7	41.0	74.0	-33.0	Peak	Vertical
	5445.5	36.0	3.4	39.4	74.0	-34.6	Peak	Vertical
*	7179.5	38.4	7.8	46.2	91.2	-45.0	Peak	Vertical
*	7970.0	38.4	8.6	47.0	91.2	-44.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (121.2dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11n-HT20 – Ant 1	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	 Average measurement was no limit. 	t performed if peak l	evel lower than average
	 Other frequency was 20dB bel in the report. 	ow limit line within 1	-18GHz, there is not show

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4876.0	44.6	2.7	47.3	74.0	-26.7	Peak	Horizontal
	7307.0	39.6	8.0	47.6	74.0	-26.4	Peak	Horizontal
*	8786.0	37.6	8.9	46.5	91.8	-45.3	Peak	Horizontal
*	9653.0	35.8	11.0	46.8	91.8	-45.0	Peak	Horizontal
	4876.0	41.0	2.7	43.7	74.0	-30.3	Peak	Vertical
	7273.0	37.3	8.0	45.3	74.0	-28.7	Peak	Vertical
*	8854.0	36.7	9.1	45.8	91.8	-46.0	Peak	Vertical
*	9789.0	35.5	11.4	46.9	91.8	-44.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (121.8dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11n-HT20 – Ant 1	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	1. Average measurement was no	t performed if peak l	evel lower than average
	limit.		
	2. Other frequency was 20dB bel	ow 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
	4918.5	45.3	2.8	48.1	74.0	-25.9	Peak	Horizontal
	7383.5	39.9	7.9	47.8	74.0	-26.2	Peak	Horizontal
*	8811.5	36.5	9.0	45.5	91.5	-46.0	Peak	Horizontal
*	9865.5	35.7	11.6	47.3	91.5	-44.2	Peak	Horizontal
	4910.0	47.3	2.7	50.0	74.0	-24.0	Peak	Vertical
	7426.0	37.0	8.0	45.0	74.0	-29.0	Peak	Vertical
*	8760.5	36.7	9.0	45.7	91.5	-45.8	Peak	Vertical
*	9797.5	35.4	11.5	46.9	91.5	-44.6	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (121.5dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11n-HT40 – Ant 1	Test Site:	AC1
Test Channel:	03	Test Engineer:	Roy Cheng
Remark:	 Average measurement was no limit. 	t performed if peak l	evel lower than average
	 Other frequency was 20dB bel in the report. 	ow limit line within 1	-18GHz, there is not show

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	4842.0	42.0	2.7	44.7	74.0	-29.3	Peak	Horizontal
	7341.0	37.4	8.0	45.4	74.0	-28.6	Peak	Horizontal
*	8820.0	36.5	9.0	45.5	89.1	-43.6	Peak	Horizontal
*	9636.0	36.2	11.0	47.2	89.1	-41.9	Peak	Horizontal
	4850.5	37.6	2.7	40.3	74.0	-33.7	Peak	Vertical
	7298.5	36.9	8.0	44.9	74.0	-29.1	Peak	Vertical
*	7970.0	37.5	8.6	46.1	89.1	-43.0	Peak	Vertical
*	9789.0	34.8	11.4	46.2	89.1	-42.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (119.1dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11n-HT40 – Ant 1	Test Site:	AC1						
Test Channel:	06	Test Engineer:	Roy Cheng						
Remark:	1. Average measurement was no	t performed if peak l	evel lower than average						
	limit.								
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show							
	in the report.								

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4884.5	41.8	2.7	44.5	74.0	-29.5	Peak	Horizontal
	7307.0	37.5	8.0	45.5	74.0	-28.5	Peak	Horizontal
*	8624.5	36.7	8.8	45.5	88.7	-43.2	Peak	Horizontal
*	9627.5	35.9	11.0	46.9	88.7	-41.8	Peak	Horizontal
	4893.0	39.4	2.7	42.1	74.0	-31.9	Peak	Vertical
	7290.0	37.5	8.0	45.5	74.0	-28.5	Peak	Vertical
*	8675.5	36.0	8.9	44.9	88.7	-43.8	Peak	Vertical
*	9763.5	35.9	11.4	47.3	88.7	-41.4	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (118.7dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11n-HT40 – Ant 1	Test Site:	AC1
Test Channel:	09	Test Engineer:	Roy Cheng
Remark:	 Average measurement was no limit. 	t performed if peak l	evel lower than average
	 Other frequency was 20dB bel in the report. 	ow limit line within 1	-18GHz, there is not show

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	4901.5	41.6	2.7	44.3	74.0	-29.7	Peak	Horizontal
	7349.5	37.4	8.0	45.4	74.0	-28.6	Peak	Horizontal
*	8641.5	36.9	8.8	45.7	88.1	-42.4	Peak	Horizontal
*	9678.5	35.7	10.9	46.6	88.1	-41.5	Peak	Horizontal
	4918.5	43.1	2.8	45.9	74.0	-28.1	Peak	Vertical
	7485.5	36.1	8.2	44.3	74.0	-29.7	Peak	Vertical
*	8650.0	36.9	8.8	45.7	88.1	-42.4	Peak	Vertical
*	9602.0	34.9	10.9	45.8	88.1	-42.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (118.1dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11b – Ant 2	Test Site:	AC1
Test Channel:	01	Test Engineer:	Roy Cheng
Remark:	 Average measurement was no limit. Other frequency was 20dB bel in the report. 		C C

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4825.0	45.8	2.7	48.5	74.0	-25.5	Peak	Horizontal
	5360.5	36.3	3.0	39.3	74.0	-34.7	Peak	Horizontal
*	7239.0	38.2	7.8	46.0	89.3	-43.3	Peak	Horizontal
*	8769.0	35.1	8.9	44.0	89.3	-45.3	Peak	Horizontal
	4825.0	41.3	2.7	44.0	74.0	-30.0	Peak	Vertical
	5394.5	36.0	3.1	39.1	74.0	-34.9	Peak	Vertical
*	7239.0	37.4	7.8	45.2	89.3	-44.1	Peak	Vertical
*	8837.0	36.2	9.1	45.3	89.3	-44.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (119.3dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11b – Ant 2	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	 Average measurement was no limit. Other frequency was 20dB bel in the report. 		

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	4876.0	50.8	2.7	53.5	74.0	-20.5	Peak	Horizontal
	7307.0	40.7	8.0	48.7	74.0	-25.3	Peak	Horizontal
*	8684.0	36.1	9.0	45.1	90.5	-45.4	Peak	Horizontal
*	9806.0	35.3	11.5	46.8	90.5	-43.7	Peak	Horizontal
	4876.0	41.2	2.7	43.9	74.0	-30.1	Peak	Vertical
	7332.5	36.5	8.0	44.5	74.0	-29.5	Peak	Vertical
*	8684.0	36.4	9.0	45.4	90.5	-45.1	Peak	Vertical
*	9551.0	35.6	10.8	46.4	90.5	-44.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (120.5dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11b – Ant 2	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	 Average measurement was no limit. Other frequency was 20dB bel in the report. 		

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4927.0	46.0	2.8	48.8	74.0	-25.2	Peak	Horizontal
	7383.5	37.6	7.9	45.5	74.0	-28.5	Peak	Horizontal
*	8769.0	35.7	8.9	44.6	90.1	-45.5	Peak	Horizontal
*	9593.5	35.9	10.9	46.8	90.1	-43.3	Peak	Horizontal
	4927.0	48.7	2.8	51.5	74.0	-22.5	Peak	Vertical
	7536.5	37.3	8.3	45.6	74.0	-28.4	Peak	Vertical
*	8837.0	36.3	9.1	45.4	90.1	-44.7	Peak	Vertical
*	9806.0	34.9	11.5	46.4	90.1	-43.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (120.1dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11g – Ant 2	Test Site:	AC1
Test Channel:	01	Test Engineer:	Roy Cheng
Remark:	 Average measurement was no limit. Other frequency was 20dB bel in the report. 		Ç

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4833.5	41.7	2.7	44.4	74.0	-29.6	Peak	Horizontal
	5386.0	35.3	3.0	38.3	74.0	-35.7	Peak	Horizontal
*	7239.0	37.7	7.8	45.5	92.4	-46.9	Peak	Horizontal
*	8820.0	36.2	9.0	45.2	92.4	-47.2	Peak	Horizontal
	4833.5	40.9	2.7	43.6	74.0	-30.4	Peak	Vertical
	5360.5	35.8	3.0	38.8	74.0	-35.2	Peak	Vertical
*	7230.5	37.7	7.8	45.5	92.4	-46.9	Peak	Vertical
*	8692.5	36.4	9.0	45.4	92.4	-47.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (122.4dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11g – Ant 2	Test Site:	AC1
Test Channel:	06	Test Engineer:	Roy Cheng
Remark:	 Average measurement was no limit. Other frequency was 20dB bel in the report. 		Ŭ

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	4876.0	49.1	2.7	51.8	74.0	-22.2	Peak	Horizontal
	5428.5	35.3	3.3	38.6	74.0	-35.4	Peak	Horizontal
*	7298.5	39.9	8.0	47.9	92.8	-44.9	Peak	Horizontal
*	8854.0	35.8	9.1	44.9	92.8	-47.9	Peak	Horizontal
	4876.0	43.2	2.7	45.9	74.0	-28.1	Peak	Vertical
	7400.5	37.0	7.9	44.9	74.0	-29.1	Peak	Vertical
*	8692.5	36.1	9.0	45.1	92.8	-47.7	Peak	Vertical
*	9865.5	34.9	11.6	46.5	92.8	-46.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (122.8dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11g – Ant 2	Test Site:	AC1
Test Channel:	11	Test Engineer:	Roy Cheng
Remark:	 Average measurement was no limit. Other frequency was 20dB bel in the report. 		

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4910.0	46.7	2.7	49.4	74.0	-24.6	Peak	Horizontal
	7383.5	37.7	7.9	45.6	74.0	-28.4	Peak	Horizontal
*	8624.5	36.9	8.8	45.7	92.5	-46.8	Peak	Horizontal
*	9687.0	35.0	10.9	45.9	92.5	-46.6	Peak	Horizontal
	4927.0	50.4	2.8	53.2	74.0	-20.8	Peak	Vertical
	7324.0	36.5	8.0	44.5	74.0	-29.5	Peak	Vertical
*	8752.0	36.5	9.0	45.5	92.5	-47.0	Peak	Vertical
*	9857.0	34.8	11.6	46.4	92.5	-46.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (122.5dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11n-HT20 – Ant 2	Test Site:	AC1						
Test Channel:	01	Test Engineer:	Roy Cheng						
Remark:	1. Average measurement was no	. Average measurement was not performed if peak level lower than average							
	limit.								
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show							
	in the report.								

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4816.5	44.0	2.7	46.7	74.0	-27.3	Peak	Horizontal
	5454.0	37.4	3.4	40.8	74.0	-33.2	Peak	Horizontal
*	7247.5	38.0	7.9	45.9	91.2	-45.3	Peak	Horizontal
*	8769.0	35.1	8.9	44.0	91.2	-47.2	Peak	Horizontal
	4833.5	40.2	2.7	42.9	74.0	-31.1	Peak	Vertical
	7443.0	36.8	8.0	44.8	74.0	-29.2	Peak	Vertical
*	8650.0	35.7	8.8	44.5	91.2	-46.7	Peak	Vertical
*	9840.0	35.6	11.6	47.2	91.2	-44.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (121.2dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11n-HT20 – Ant 2	Test Site:	AC1						
Test Channel:	06	Test Engineer:	Roy Cheng						
Remark:	1. Average measurement was no	. Average measurement was not performed if peak level lower than average							
	limit.								
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show							
	in the report.								

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4867.5	47.9	2.7	50.6	74.0	-23.4	Peak	Horizontal
	7307.0	39.9	8.0	47.9	74.0	-26.1	Peak	Horizontal
*	8837.0	35.7	9.1	44.8	91.5	-46.7	Peak	Horizontal
*	9882.5	34.7	11.6	46.3	91.5	-45.2	Peak	Horizontal
	4867.5	42.9	2.7	45.6	74.0	-28.4	Peak	Vertical
	7383.5	37.3	7.9	45.2	74.0	-28.8	Peak	Vertical
*	8692.5	35.9	9.0	44.9	91.5	-46.6	Peak	Vertical
*	9789.0	35.4	11.4	46.8	91.5	-44.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (121.5dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11n-HT20 – Ant 2	Test Site:	AC1						
Test Channel:	11	Test Engineer:	Roy Cheng						
Remark:	1. Average measurement was no	. Average measurement was not performed if peak level lower than average							
	limit.	limit.							
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show							
	in the report.								

Mark	Frequency	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4927.0	47.8	2.8	50.6	74.0	-23.4	Peak	Horizontal
	7519.5	37.3	8.3	45.6	74.0	-28.4	Peak	Horizontal
*	8616.0	36.4	8.8	45.2	90.3	-45.1	Peak	Horizontal
*	9627.5	35.5	11.0	46.5	90.3	-43.8	Peak	Horizontal
	4927.0	47.5	2.8	50.3	74.0	-23.7	Peak	Vertical
	7324.0	36.8	8.0	44.8	74.0	-29.2	Peak	Vertical
	8769.0	35.8	8.9	44.7	90.3	-45.6	Peak	Vertical
*	9755.0	34.6	11.4	46.0	90.3	-44.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (120.3dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11n-HT40 – Ant 2	Test Site:	AC1						
Test Channel:	03	Test Engineer:	Roy Cheng						
Remark:	1. Average measurement was no	. Average measurement was not performed if peak level lower than average							
	limit.								
	2. Other frequency was 20dB bel	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
	4850.5	42.6	2.7	45.3	74.0	-28.7	Peak	Horizontal
	7281.5	37.7	8.0	45.7	74.0	-28.3	Peak	Horizontal
*	8658.5	36.2	8.8	45.0	89.2	-44.2	Peak	Horizontal
*	9610.5	35.9	10.9	46.8	89.2	-42.4	Peak	Horizontal
	4842.0	38.4	2.7	41.1	74.0	-32.9	Peak	Vertical
	7400.5	37.0	7.9	44.9	74.0	-29.1	Peak	Vertical
*	8811.5	36.1	9.0	45.1	89.2	-44.1	Peak	Vertical
*	9857.0	35.1	11.6	46.7	89.2	-42.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (119.2dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11n-HT40 – Ant 2	Test Site:	AC1						
Test Channel:	06	Test Engineer:	Roy Cheng						
Remark:	1. Average measurement was no	. Average measurement was not performed if peak level lower than average							
	limit.	limit.							
	2. Other frequency was 20dB bel	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
	4859.0	46.8	2.7	49.5	74.0	-24.5	Peak	Horizontal
	7307.0	38.5	8.0	46.5	74.0	-27.5	Peak	Horizontal
*	8684.0	36.2	9.0	45.2	90.1	-44.9	Peak	Horizontal
*	9746.5	35.4	11.3	46.7	90.1	-43.4	Peak	Horizontal
	4893.0	40.0	2.7	42.7	74.0	-31.3	Peak	Vertical
	7290.0	37.2	8.0	45.2	74.0	-28.8	Peak	Vertical
*	8650.0	36.1	8.8	44.9	90.1	-45.2	Peak	Vertical
*	9857.0	34.6	11.6	46.2	90.1	-43.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (120.1dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11n-HT40 – Ant 2	Test Site:	AC1						
Test Channel:	09	Test Engineer:	Roy Cheng						
Remark:	1. Average measurement was no	. Average measurement was not performed if peak level lower than average							
	limit.	limit.							
	2. Other frequency was 20dB bel	2. Other frequency was 20dB below limit line within 1-18GHz, there is not show							
	in the report.								

Mark	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	(11112)	(dBµV)	(ub)	(dBµV/m)	(ασμνλη)	(UD)		
	4901.5	43.7	2.7	46.4	74.0	-27.6	Peak	Horizontal
	7332.5	37.3	8.0	45.3	74.0	-28.7	Peak	Horizontal
*	8735.0	35.6	8.9	44.5	88.7	-44.2	Peak	Horizontal
*	9644.5	34.8	11.0	45.8	88.7	-42.9	Peak	Horizontal
	4901.5	43.0	2.7	45.7	74.0	-28.3	Peak	Vertical
	7528.0	35.7	8.3	44.0	74.0	-30.0	Peak	Vertical
*	8616.0	35.8	8.8	44.6	88.7	-44.1	Peak	Vertical
*	9695.5	35.9	10.9	46.8	88.7	-41.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (118.7dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)

Test Mode:	802.11b – Ant 1 + 2	Test Site:	AC1			
Test Channel:	01	Test Engineer:	Roy Cheng			
Remark:	 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
	4825.0	44.1	2.7	46.8	74.0	-27.2	Peak	Horizontal
	5360.5	35.7	3.0	38.7	74.0	-35.3	Peak	Horizontal
*	7239.0	38.3	7.8	46.1	94.3	-48.2	Peak	Horizontal
*	8803.0	36.3	8.9	45.2	94.3	-49.1	Peak	Horizontal
	4825.0	42.1	2.7	44.8	74.0	-29.2	Peak	Vertical
	7349.5	36.9	8.0	44.9	74.0	-29.1	Peak	Vertical
*	8735.0	36.6	8.9	45.5	94.3	-48.8	Peak	Vertical
*	9763.5	34.7	11.4	46.1	94.3	-48.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (124.3dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)



Test Mode:	802.11b – Ant 1 + 2	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	Reading	Factor	Measure	Limit	Margin	Detector	Polarization
	(MHz)	Level	(dB)	Level	(dBµV/m)	(dB)		
		(dBµV)		(dBµV/m)				
	4876.0	50.0	2.7	52.7	74.0	-21.3	Peak	Horizontal
	7307.0	43.6	8.0	51.6	74.0	-22.4	Peak	Horizontal
*	8658.5	36.1	8.8	44.9	96.3	-51.4	Peak	Horizontal
*	9746.5	35.7	11.3	47.0	96.3	-49.3	Peak	Horizontal
	4876.0	44.6	2.7	47.3	74.0	-26.7	Peak	Horizontal
	7315.5	38.6	8.0	46.6	74.0	-27.4	Peak	Vertical
*	8769.0	36.9	8.9	45.8	96.3	-50.5	Peak	Vertical
*	9729.5	35.2	11.1	46.3	96.3	-50.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 30dBc of the fundamental emission level (126.3dBµV/m) or 15.209 which is higher.

Note 2: Measure Level ($dB\mu V/m$) = Reading Level ($dB\mu V$) + Factor (dB)