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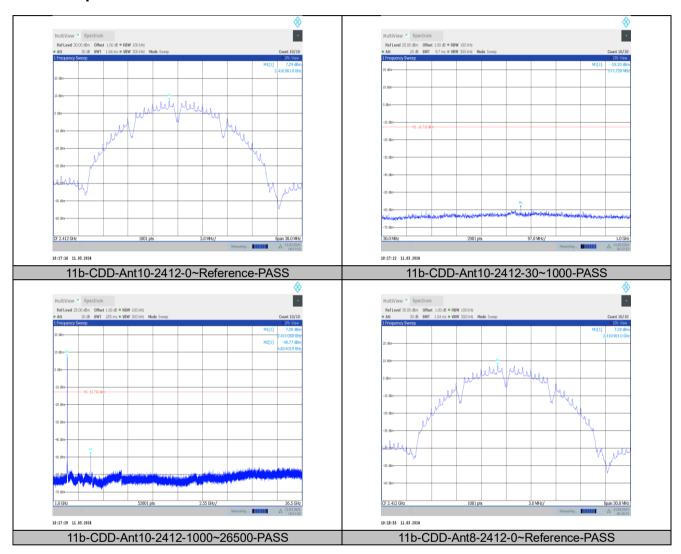


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# **Conducted Spurious Emission Test Graphs**





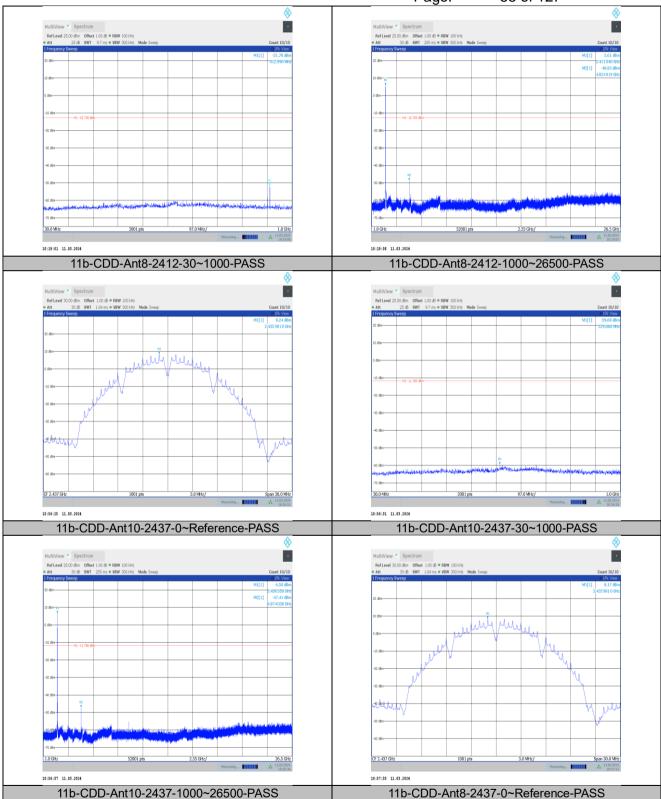
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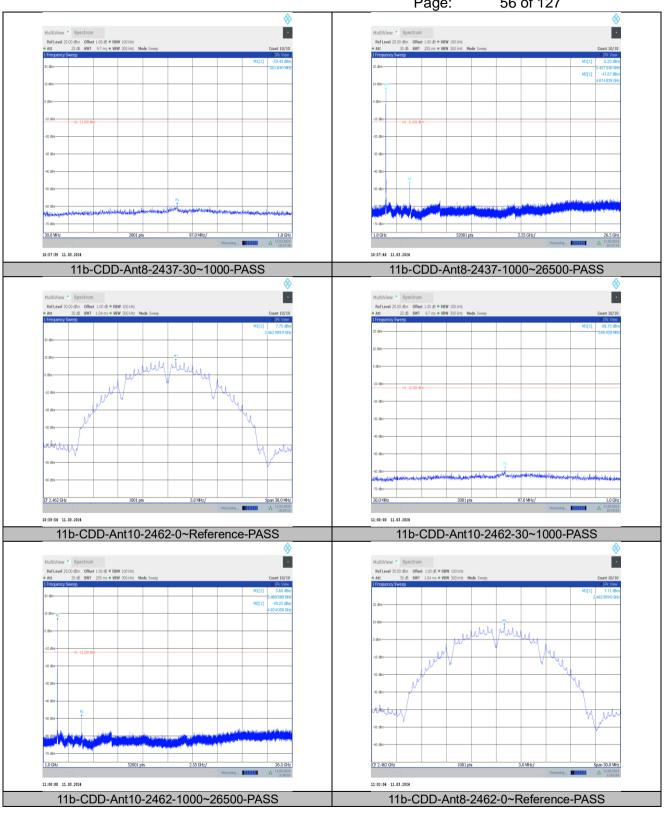
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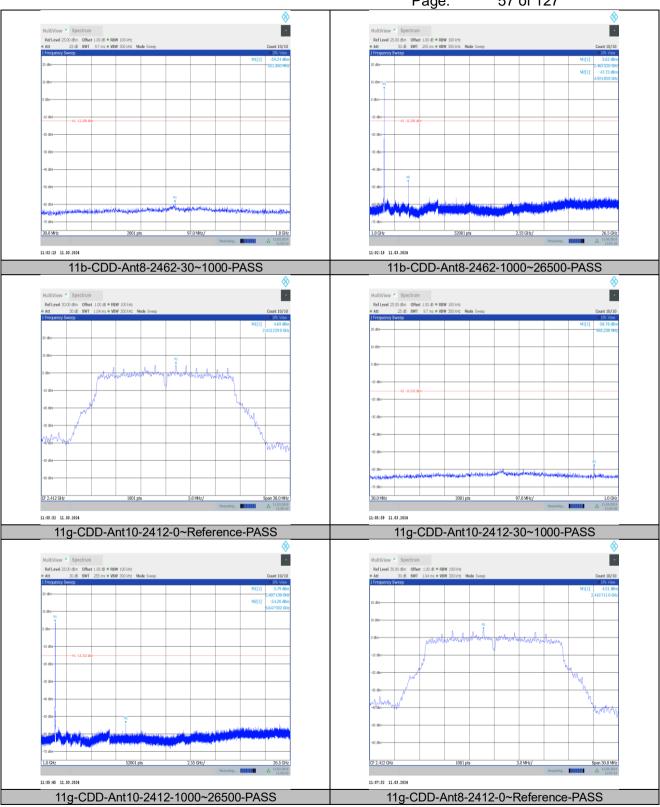
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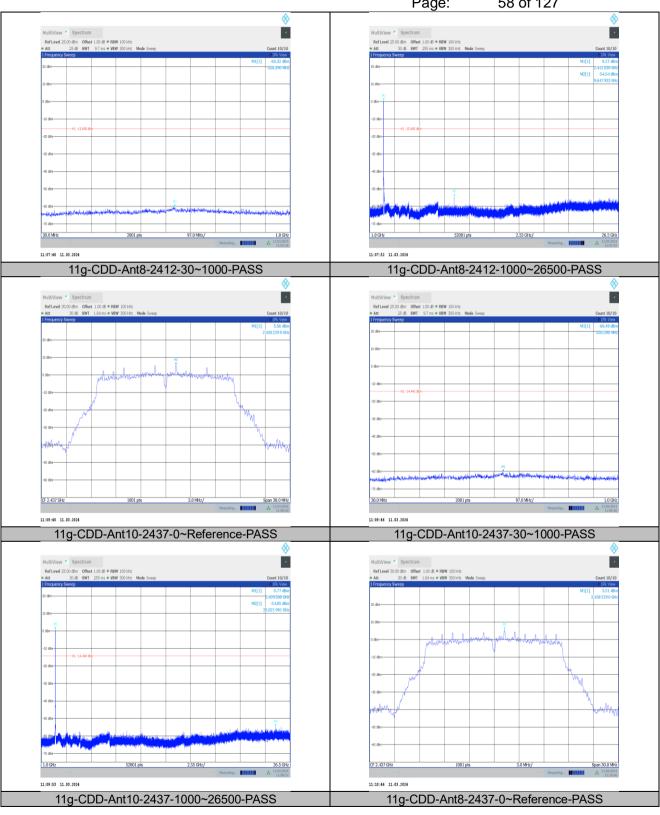
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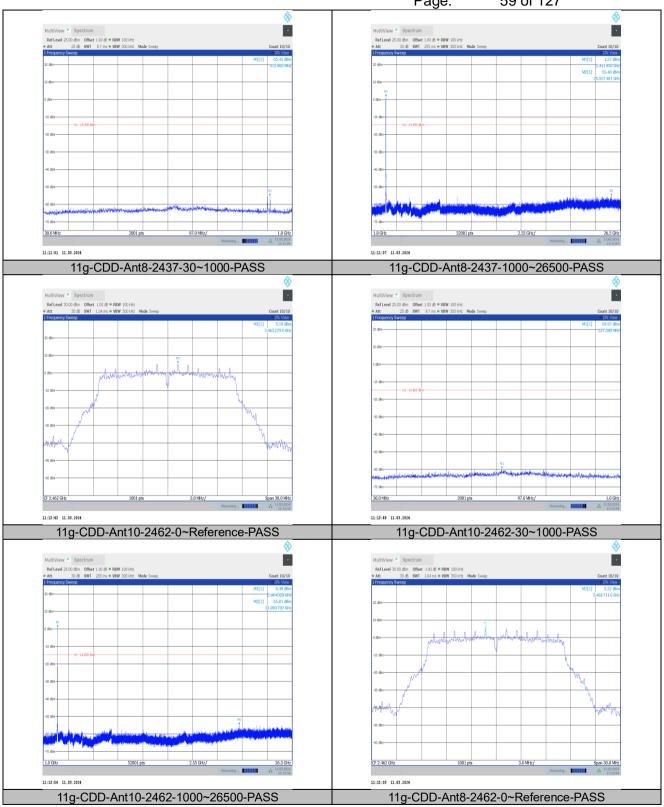
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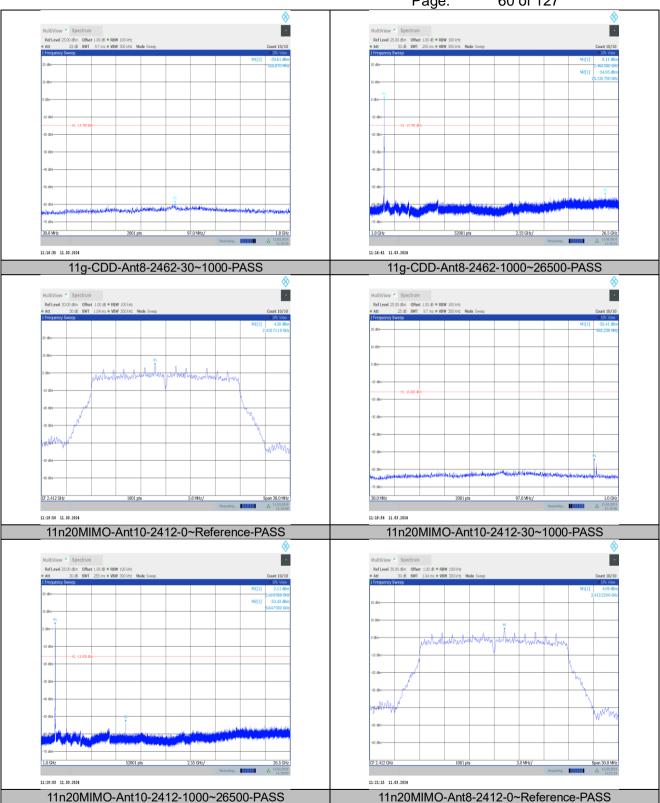
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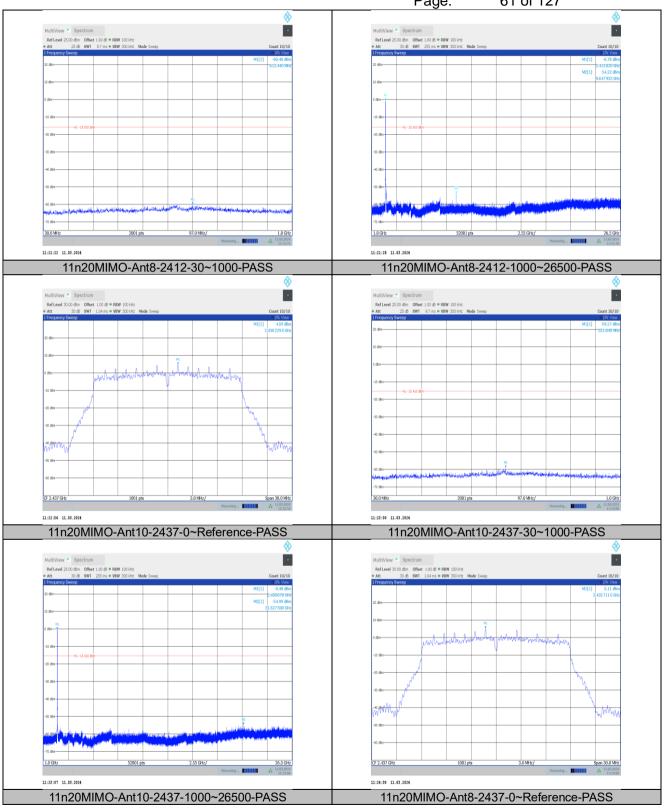
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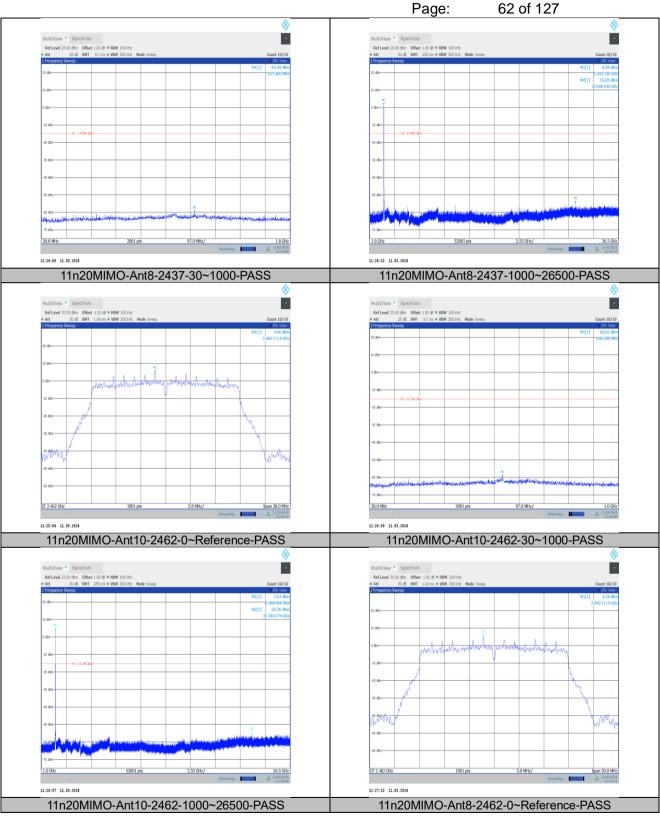
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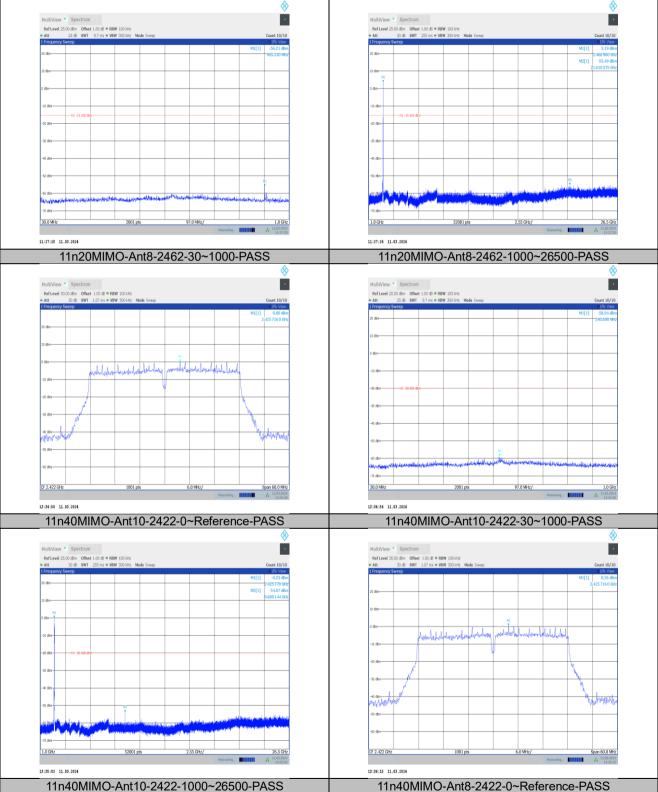
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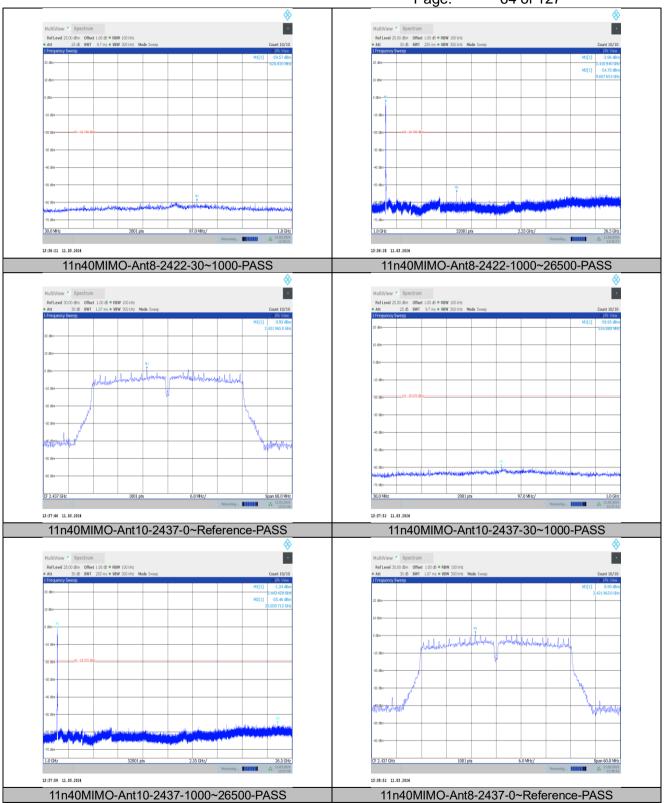
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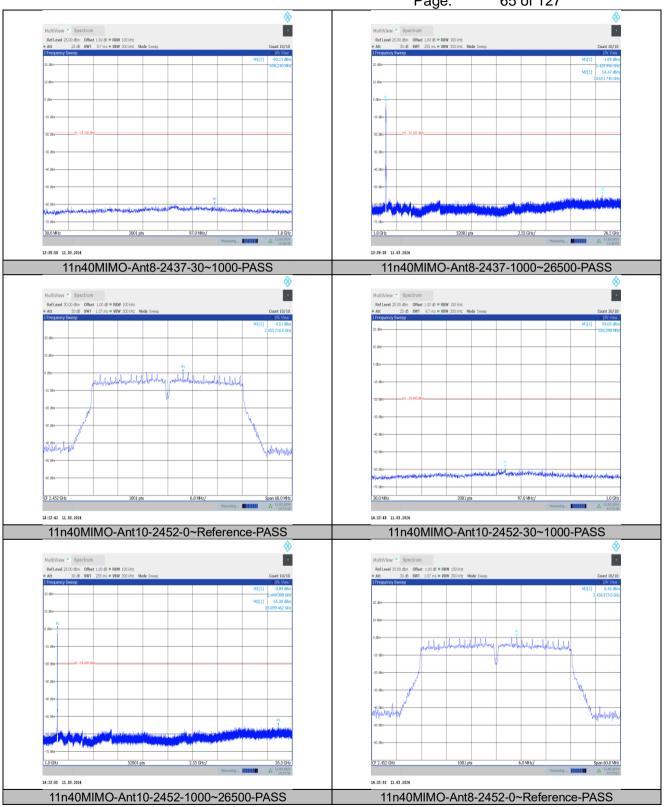
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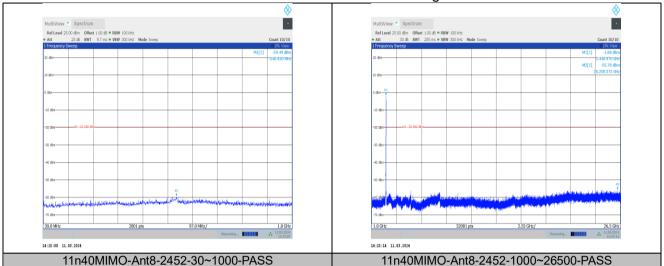
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#### **Duty Cycle** Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11b-CDD	Ant10	2412	20.00	20.00	100.00	0.00
11b-CDD	Ant8	2412	20.00	20.00	100.00	0.00
11g-CDD	Ant10	2412	2.06	2.10	98.10	0.08
11g-CDD	Ant8	2412	2.07	2.11	98.10	0.08
11n20MIMO	Ant10	2412	1.93	1.97	97.97	0.09
11n20MIMO	Ant8	2412	1.93	1.96	98.47	0.07
11n40MIMO	Ant10	2422	0.95	1.00	95.00	0.22
11n40MIMO	Ant8	2422	0.95	1.00	95.00	0.22

#### Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
11b-CDD	20.00	20.00	100.00	0.05000	10Hz*
11g-CDD	2.06	2.10	98.10	0.48543	0.51KHz
11n20MIMO	1.93	1.97	97.97	0.51813	0.56KHz
11n40MIMO	0.95	1.00	95.00	1.05263	1.1KHz

<sup>\*</sup>Duty cycle > 98% VBW setting=10Hz



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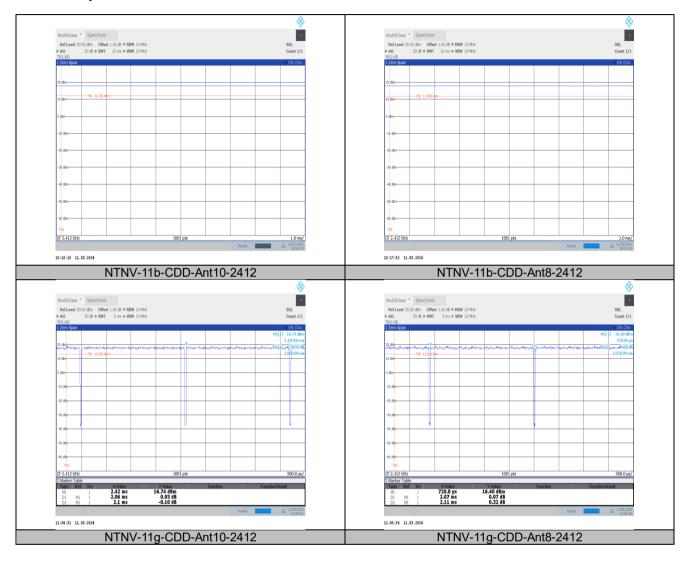


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#### **Test Graphs**





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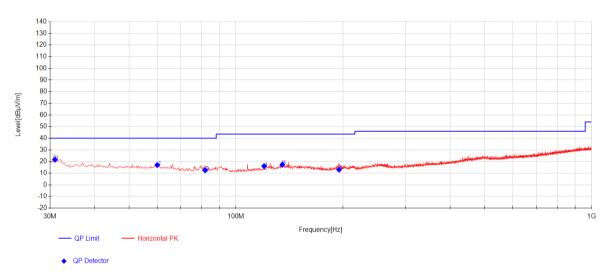
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# Radiated Spurious Emissions Radiated emission below 1GHz

Worst case Mode: 802.11n40\_Channel 03



Data	List							
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	30.97	37.63	-34.01	18.02	21.64	40.00	18.36	Horizontal
2	60.07	32.05	-33.86	18.79	16.98	40.00	23.02	Horizontal
3	81.895	31.06	-33.64	15.11	12.53	40.00	27.47	Horizontal
4	119.9675	32.06	-33.34	17.30	16.02	43.50	27.48	Horizontal
5	135.0025	32.32	-33.26	18.28	17.33	43.50	26.17	Horizontal
6	194.9	30.24	-32.77	15.53	13.00	43.50	30.50	Horizontal



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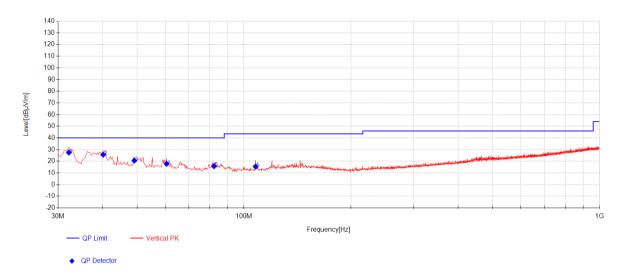
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Data	List							
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Polarity
1	32.1825	43.32	-34.01	18.16	27.48	40.00	12.52	Vertical
2	40.185	40.01	-33.99	19.69	25.71	40.00	14.29	Vertical
3	49.1575	35.36	-33.98	19.24	20.62	40.00	19.38	Vertical
4	60.555	33.01	-33.85	18.71	17.86	40.00	22.14	Vertical
5	82.38	34.33	-33.63	15.08	15.78	40.00	24.22	Vertical
6	107.8425	32.68	-33.41	16.21	15.48	43.50	28.02	Vertical

#### Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Value = Reading(dB $\mu$ V) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit( $dB\mu V/m$ ) – Value( $dB\mu V/m$ )

2) All channels have been tested, but only the worst case data displayed in this report.



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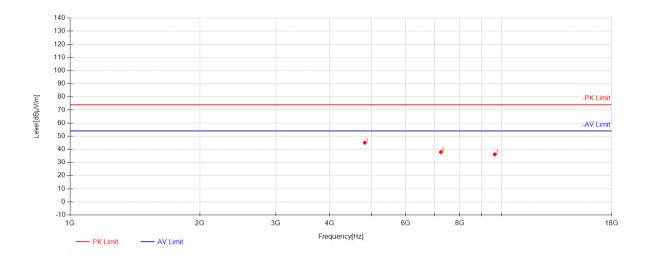


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# Transmitter emission Above 1GHz 802.11b\_Channel 01



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4824.0000	59.60	31.01	-45.54	45.08	74.00	28.92	Horizontal			
2	7236.0000	45.56	35.86	-43.54	37.88	74.00	36.12	Horizontal			
3	9648.0000	38.17	37.53	-39.56	36.14	74.00	37.86	Horizontal			



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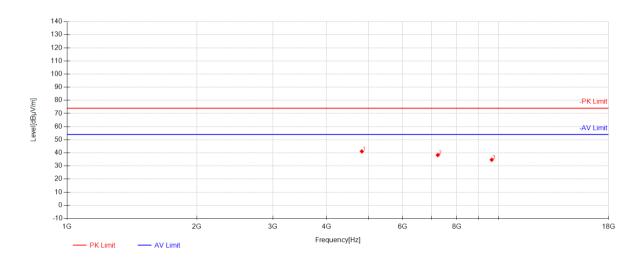


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#### 802.11b\_Channel 01



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4824.0000	55.64	31.01	-45.54	41.12	74.00	32.88	Vertical			
2	7236.0000	45.98	35.86	-43.54	38.30	74.00	35.70	Vertical			
3	9648.0000	36.70	37.53	-39.56	34.67	74.00	39.33	Vertical			



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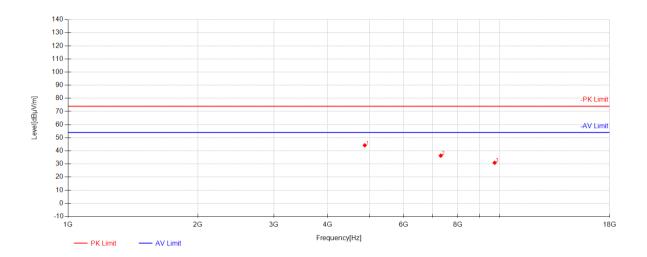


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#### 802.11b\_Channel 06



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4874.0000	58.63	31.12	-45.53	44.22	74.00	29.78	Horizontal			
2	7311.0000	43.95	36.07	-43.71	36.31	74.00	37.69	Horizontal			
3	9748.0000	32.61	37.72	-39.46	30.87	74.00	43.13	Horizontal			



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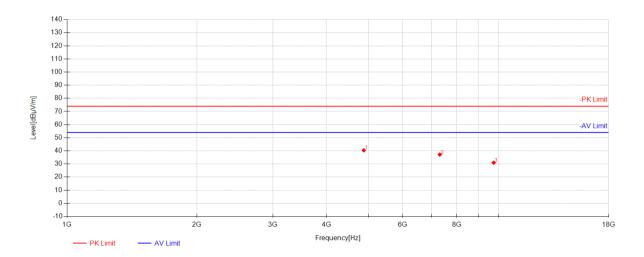


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#### 802.11b\_Channel 06



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4874.0000	54.80	31.12	-45.53	40.39	74.00	33.61	Vertical			
2	7311.0000	44.77	36.07	-43.71	37.13	74.00	36.87	Vertical			
3	9748.0000	32.65	37.72	-39.46	30.91	74.00	43.09	Vertical			



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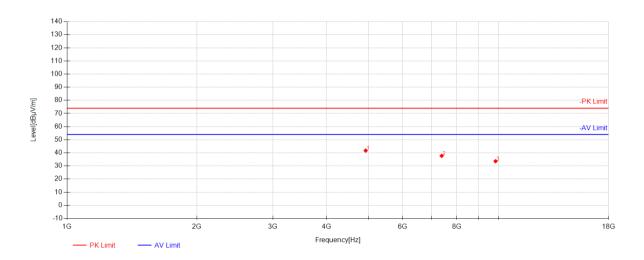


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#### 802.11b\_Channel 11



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4924.0000	56.02	31.23	-45.56	41.70	74.00	32.30	Horizontal			
2	7386.0000	44.86	36.28	-43.46	37.68	74.00	36.32	Horizontal			
3	9848.0000	35.09	37.91	-39.41	33.59	74.00	40.41	Horizontal			



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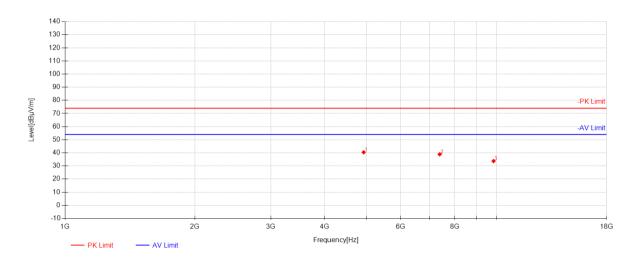


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#### 802.11b\_Channel 11



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4924.0000	54.71	31.23	-45.56	40.39	74.00	33.61	Vertical			
2	7386.0000	46.03	36.28	-43.46	38.85	74.00	35.15	Vertical			
3	9848.0000	35.19	37.91	-39.41	33.69	74.00	40.31	Vertical			



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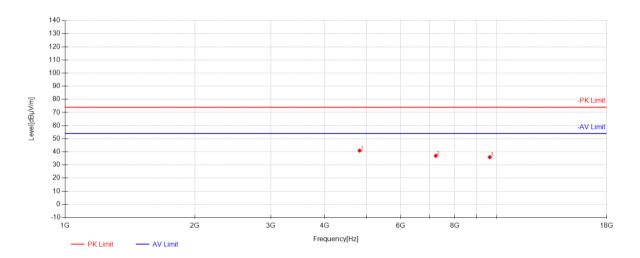


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#### 802.11g\_Channel 01



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4817.5	55.46	31.00	-45.54	40.92	74.00	33.08	Horizontal			
2	7236.0000	44.60	35.86	-43.54	36.92	74.00	37.08	Horizontal			
3	9648.0000	37.94	37.53	-39.56	35.91	74.00	38.09	Horizontal			



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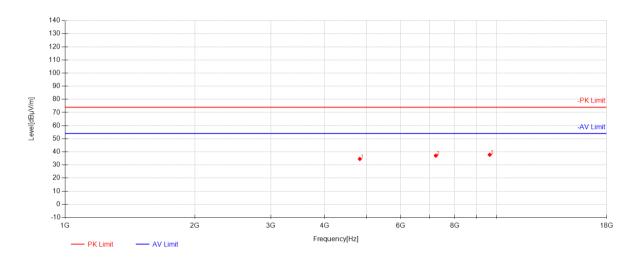


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#### 802.11g\_Channel 01



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4824.0000	49.09	31.01	-45.54	34.57	74.00	39.43	Vertical			
2	7236.0000	44.75	35.86	-43.54	37.07	74.00	36.93	Vertical			
3	9648.0000	39.80	37.53	-39.56	37.77	74.00	36.23	Vertical			



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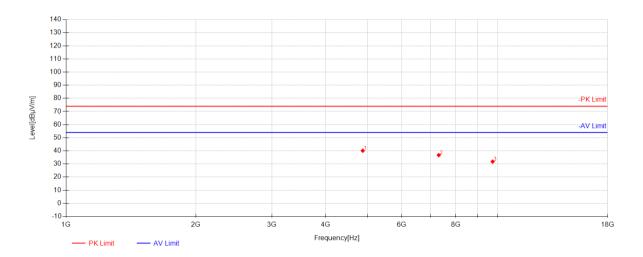


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#### 802.11g\_Channel 06



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	4873.5	54.51	31.12	-45.53	40.10	74.00	33.90	Horizontal	
2	7311.0000	44.35	36.07	-43.71	36.71	74.00	37.29	Horizontal	
3	9748.0000	33.53	37.72	-39.46	31.79	74.00	42.21	Horizontal	



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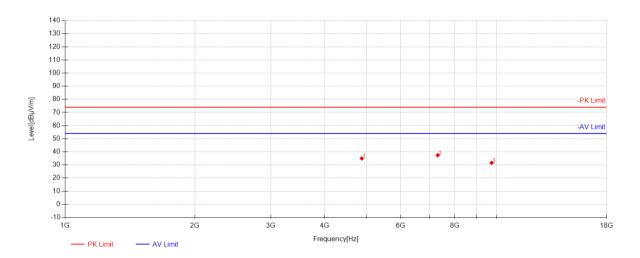


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#### 802.11g\_Channel 06



Data	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	4874.0000	49.36	31.12	-45.53	34.95	74.00	39.05	Vertical		
2	7311.0000	45.05	36.07	-43.71	37.41	74.00	36.59	Vertical		
3	9748.0000	33.35	37.72	-39.46	31.61	74.00	42.39	Vertical		



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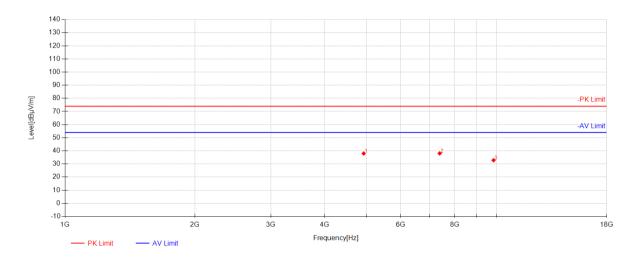


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#### 802.11g\_Channel 11



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	4924.0000	52.30	31.23	-45.56	37.98	74.00	36.02	Horizontal	
2	7386.0000	45.19	36.28	-43.46	38.01	74.00	35.99	Horizontal	
3	9848.0000	34.31	37.91	-39.41	32.81	74.00	41.19	Horizontal	



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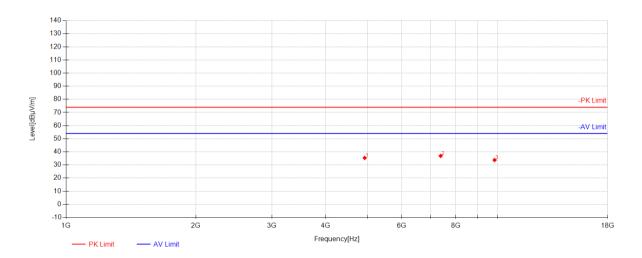


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#### 802.11g\_Channel 11



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	4924.0000	49.66	31.23	-45.56	35.34	74.00	38.66	Vertical	
2	7386.0000	44.05	36.28	-43.46	36.87	74.00	37.13	Vertical	
3	9848.0000	35.21	37.91	-39.41	33.71	74.00	40.29	Vertical	



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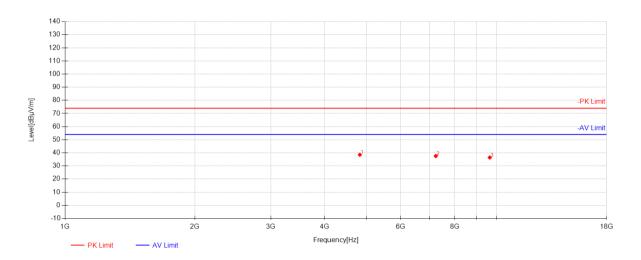


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#### 802.11n20\_Channel 01



Data	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	4824.0000	53.03	31.01	-45.54	38.51	74.00	35.49	Horizontal		
2	7236.0000	45.22	35.86	-43.54	37.54	74.00	36.46	Horizontal		
3	9648.0000	38.43	37.53	-39.56	36.40	74.00	37.60	Horizontal		



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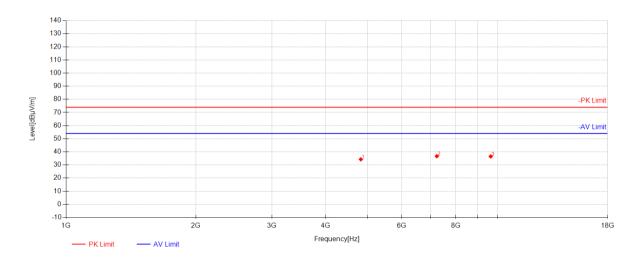


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#### 802.11n20\_Channel 01



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	4824.0000	48.80	31.01	-45.54	34.28	74.00	39.72	Vertical	
2	7236.0000	44.32	35.86	-43.54	36.64	74.00	37.36	Vertical	
3	9648.0000	38.50	37.53	-39.56	36.47	74.00	37.53	Vertical	



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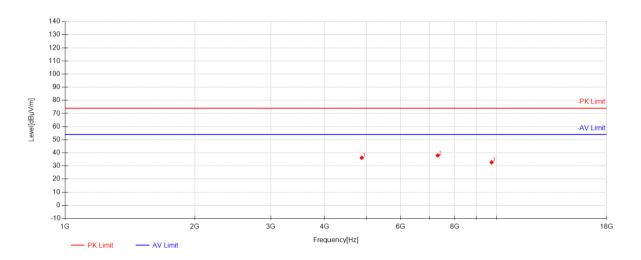


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#### 802.11n20\_Channel 06



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	4874.0000	50.66	31.12	-45.53	36.25	74.00	37.75	Horizontal	
2	7311.0000	45.62	36.07	-43.71	37.98	74.00	36.02	Horizontal	
3	9748.0000	34.45	37.72	-39.46	32.71	74.00	41.29	Horizontal	



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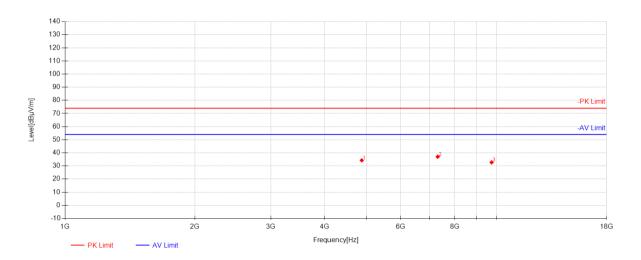


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#### 802.11n20\_Channel 06



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	4874.0000	48.69	31.12	-45.53	34.28	74.00	39.72	Vertical	
2	7311.0000	44.65	36.07	-43.71	37.01	74.00	36.99	Vertical	
3	9748.0000	34.45	37.72	-39.46	32.71	74.00	41.29	Vertical	



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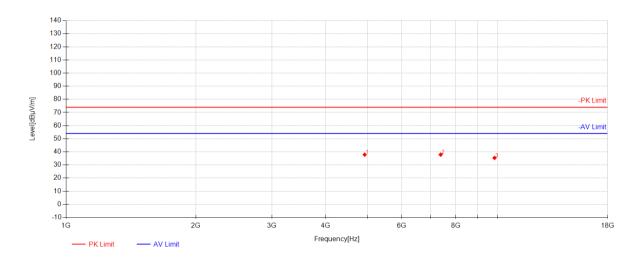


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#### 802.11n20\_Channel 11



Data	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	4924.0000	52.16	31.23	-45.56	37.84	74.00	36.16	Horizontal		
2	7386.0000	45.03	36.28	-43.46	37.85	74.00	36.15	Horizontal		
3	9848.0000	36.85	37.91	-39.41	35.35	74.00	38.65	Horizontal		



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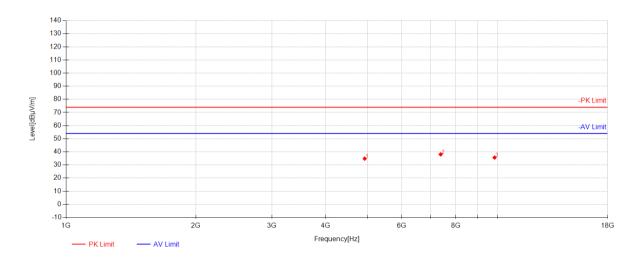


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#### 802.11n20\_Channel 11



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4924.0000	49.12	31.23	-45.56	34.80	74.00	39.20	Vertical			
2	7386.0000	45.24	36.28	-43.46	38.06	74.00	35.94	Vertical			
3	9848.0000	37.10	37.91	-39.41	35.60	74.00	38.40	Vertical			



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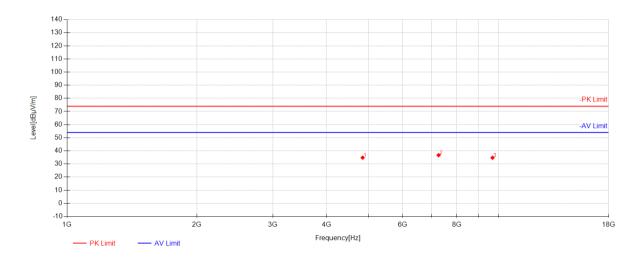


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#### 802.11n40\_Channel 03



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4844.0000	49.26	31.06	-45.54	34.78	74.00	39.22	Horizontal			
2	7266.0000	44.36	35.94	-43.64	36.67	74.00	37.33	Horizontal			
3	9688.0000	36.57	37.61	-39.47	34.71	74.00	39.29	Horizontal			



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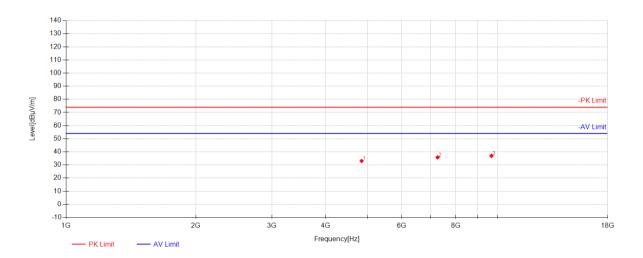


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#### 802.11n40\_Channel 03



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4844.0000	47.52	31.06	-45.54	33.04	74.00	40.96	Vertical			
2	7266.0000	43.48	35.94	-43.64	35.79	74.00	38.21	Vertical			
3	9688.0000	38.79	37.61	-39.47	36.93	74.00	37.07	Vertical			



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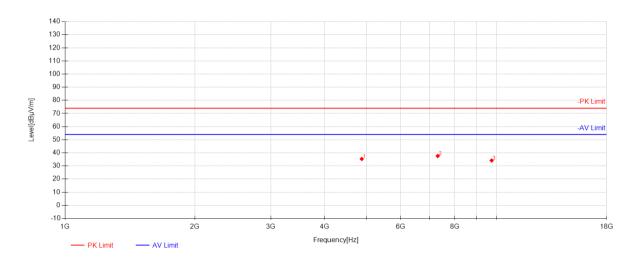


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#### 802.11n40\_Channel 06



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4874.0000	49.74	31.12	-45.53	35.33	74.00	38.67	Horizontal			
2	7311.0000	45.22	36.07	-43.71	37.58	74.00	36.42	Horizontal			
3	9748.0000	35.89	37.72	-39.46	34.15	74.00	39.85	Horizontal			



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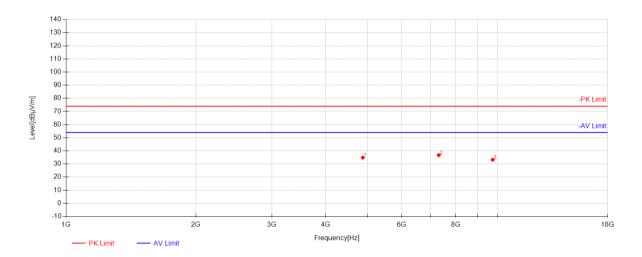


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#### 802.11n40\_Channel 06



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4874.0000	49.27	31.12	-45.53	34.86	74.00	39.14	Vertical			
2	7311.0000	44.35	36.07	-43.71	36.71	74.00	37.29	Vertical			
3	9748.0000	34.95	37.72	-39.46	33.21	74.00	40.79	Vertical			



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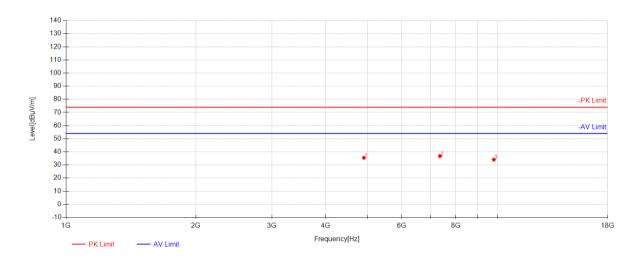


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#### 802.11n40\_Channel 09



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	4904.0000	49.80	31.19	-45.53	35.45	74.00	38.55	Horizontal			
2	7356.0000	44.09	36.20	-43.56	36.73	74.00	37.27	Horizontal			
3	9808.0000	35.64	37.84	-39.47	34.01	74.00	39.99	Horizontal			



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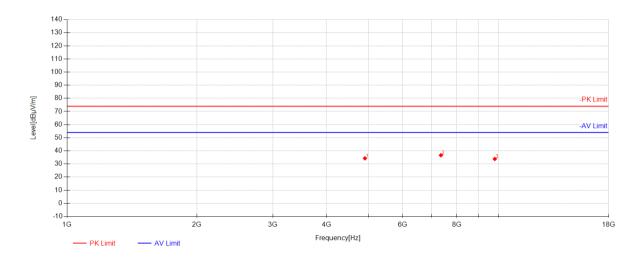


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#### 802.11n40\_Channel 09



Data	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	4904.0000	48.62	31.19	-45.53	34.27	74.00	39.73	Vertical		
2	7356.0000	43.98	36.20	-43.56	36.62	74.00	37.38	Vertical		
3	9808.0000	35.40	37.84	-39.47	33.77	74.00	40.23	Vertical		

#### Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading( $dB\mu V$ ) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit( $dB\mu V/m$ ) – Level( $dB\mu V/m$ )

- 2) All channels have been tested, but only the worst case data displayed in this report.
- 3) Both peak and average measured complies with the limit line, so test result is "PASS"
- 4) For WLAN SISO & CDD/MIMO mode for 802.11b/g/n mode, the whole testing has assessed only CDD/MIMO mode by referring to their higher output power.



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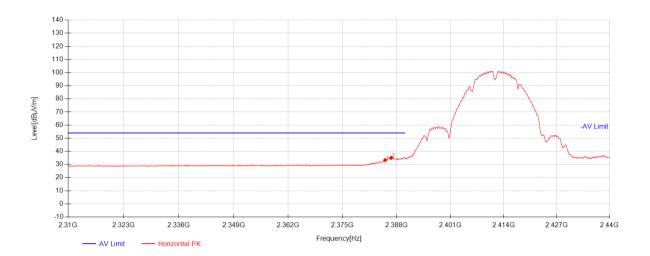


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# Restricted bands around fundamental frequency 802.11b Channel 01



Data	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	2385.27	29.90	26.98	-23.57	33.31	54.00	20.69	Horizontal		
2	2386.7	31.59	26.98	-23.57	35.00	54.00	19.00	Horizontal		



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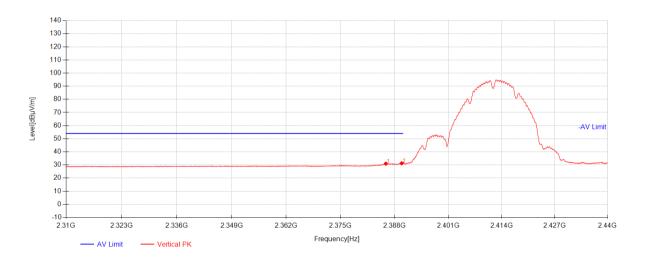


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#### 802.11b\_Channel 01



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2385.92	27.59	26.98	-23.57	31.00	54.00	23.00	Vertical			
2	2389.7333	27.84	26.99	-23.57	31.26	54.00	22.74	Vertical			



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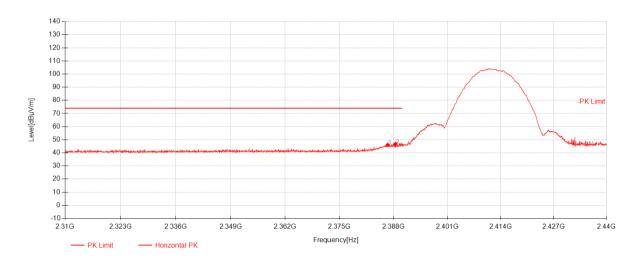


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#### 802.11b\_Channel 01



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2386.6133	42.60	26.98	-23.57	46.01	74.00	27.99	Horizontal			
2	2388.4333	43.31	26.99	-23.57	46.73	74.00	27.27	Horizontal			



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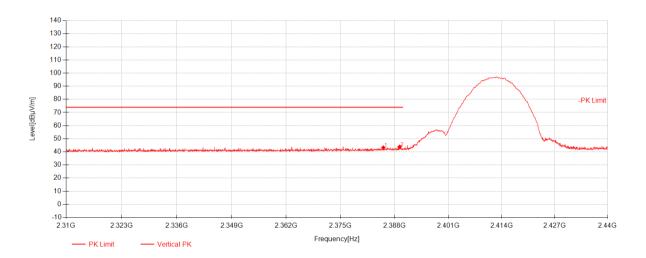


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#### 802.11b\_Channel 01



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2385.3133	39.81	26.98	-23.57	43.22	74.00	30.78	Vertical			
2	2389.2567	40.44	26.99	-23.57	43.86	74.00	30.14	Vertical			



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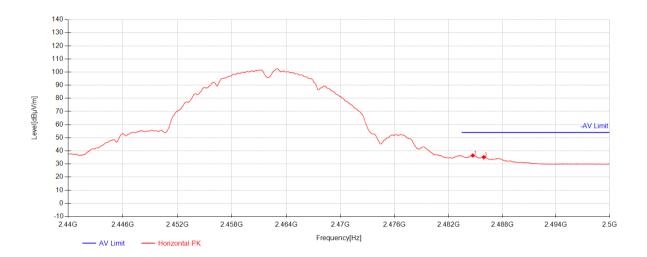


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#### 802.11b\_Channel 11



Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	2484.715	32.74	27.26	-23.54	36.45	54.00	17.55	Horizontal			
2	2485.93	31.42	27.26	-23.54	35.14	54.00	18.86	Horizontal			



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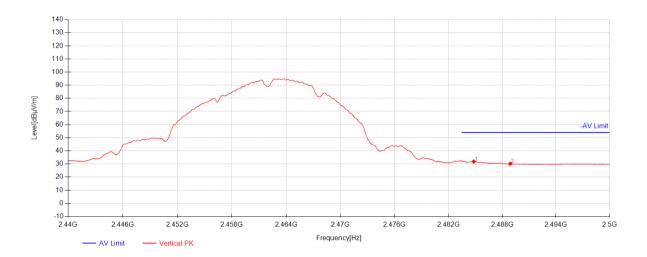


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#### 802.11b\_Channel 11



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2484.82	28.11	27.26	-23.54	31.82	54.00	22.18	Vertical	
2	2488.885	26.43	27.27	-23.54	30.16	54.00	23.84	Vertical	



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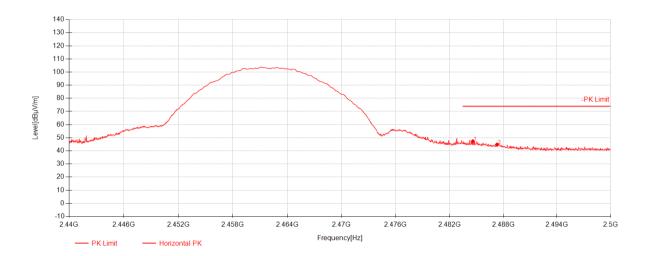


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#### 802.11b\_Channel 11



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2484.61	43.59	27.26	-23.54	47.30	74.00	26.70	Horizontal	
2	2487.295	41.04	27.26	-23.54	44.76	74.00	29.24	Horizontal	



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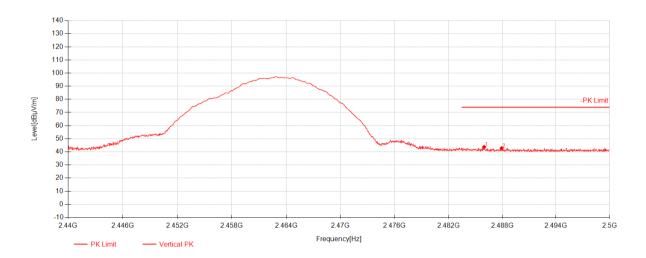


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#### 802.11b\_Channel 11



Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	2485.975	40.00	27.26	-23.54	43.72	74.00	30.28	Vertical	
2	2487.925	39.03	27.27	-23.54	42.75	74.00	31.25	Vertical	



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