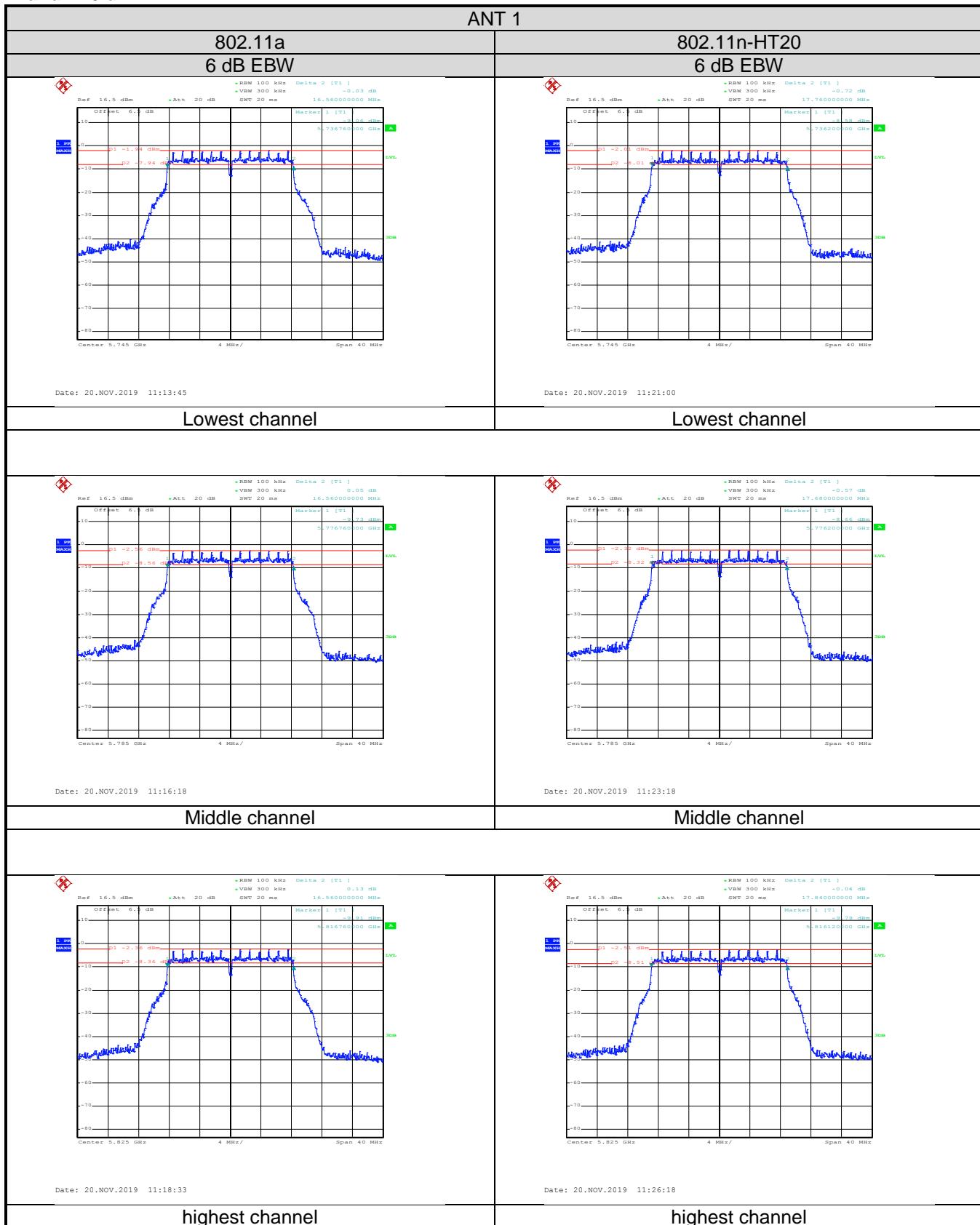
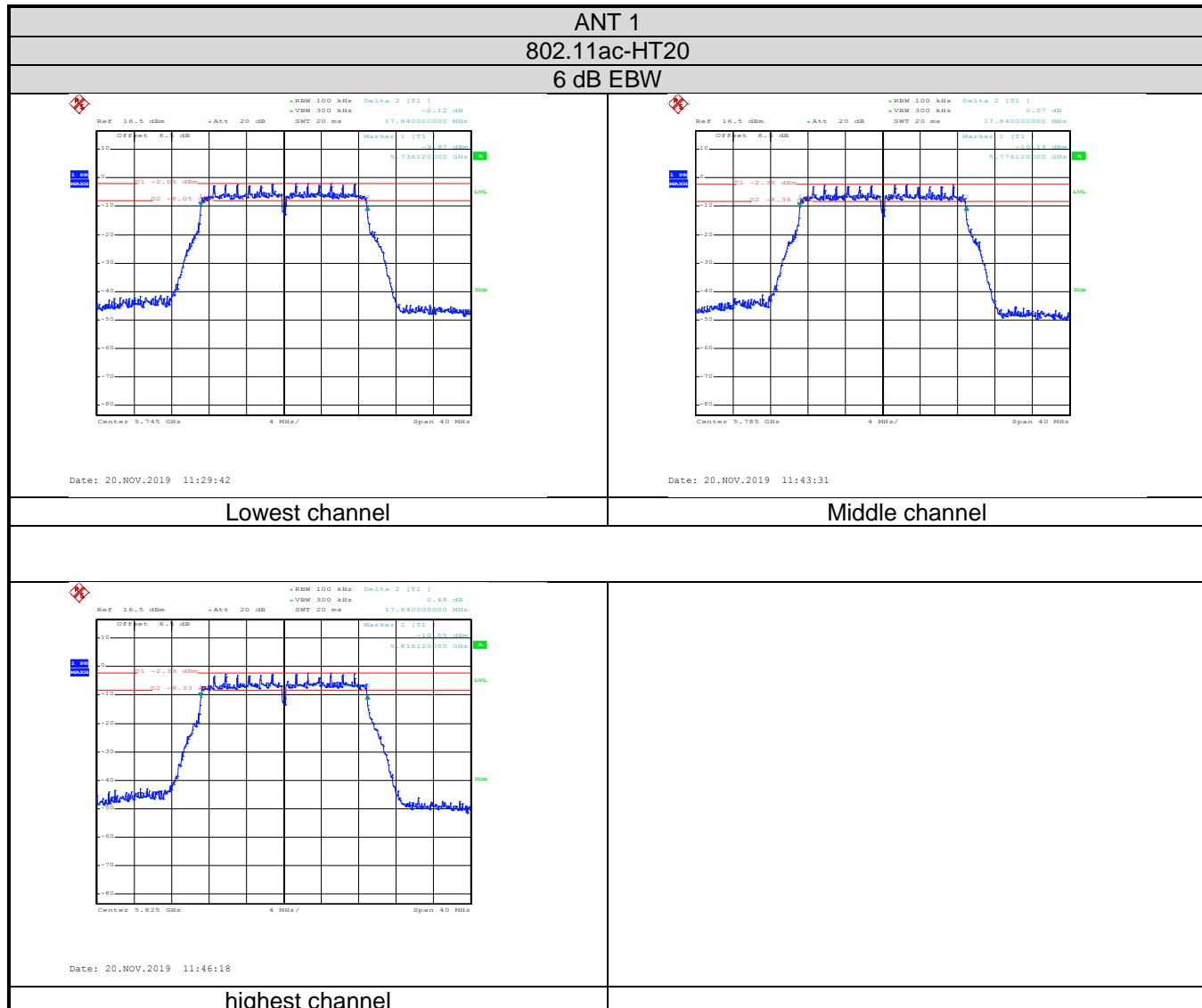
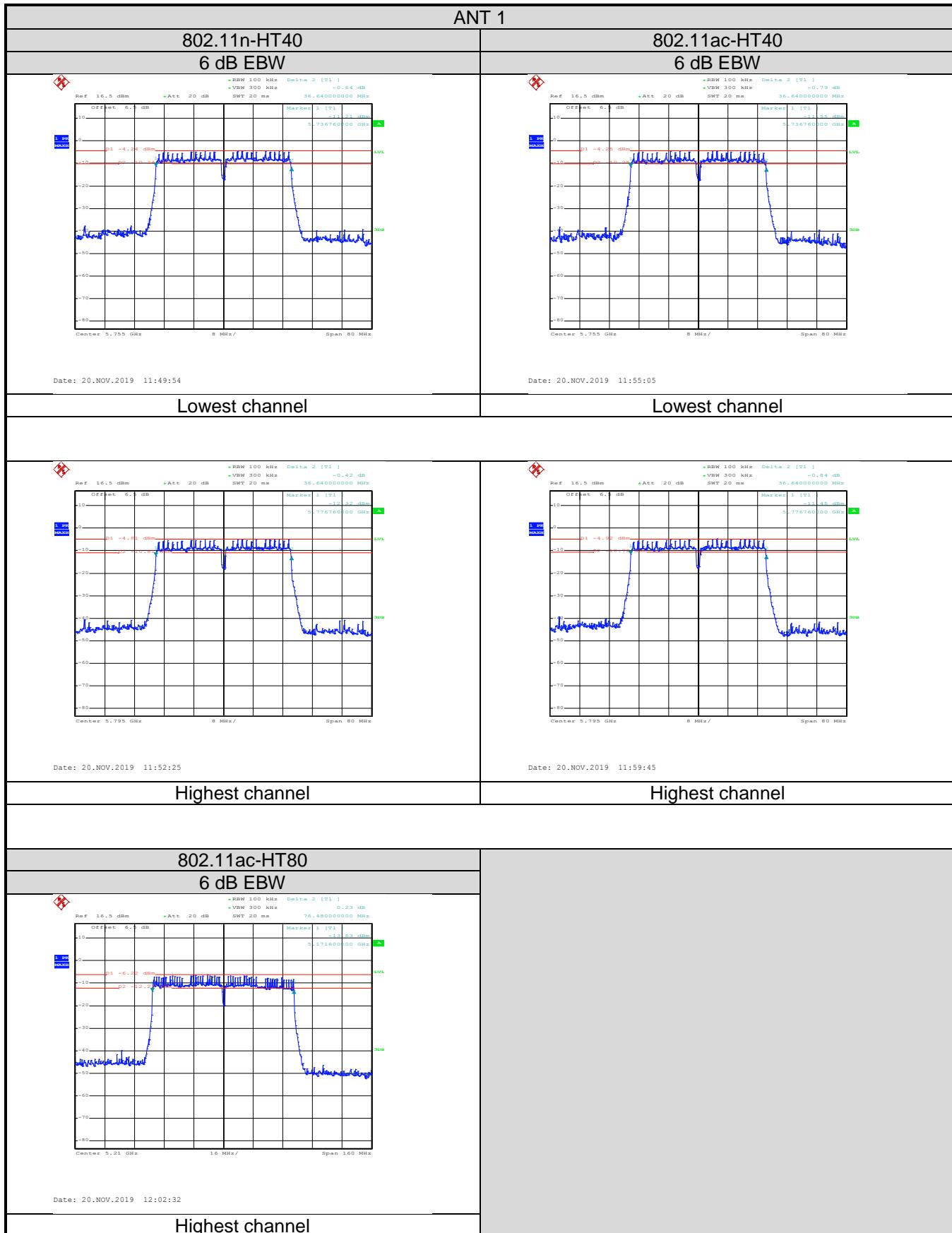


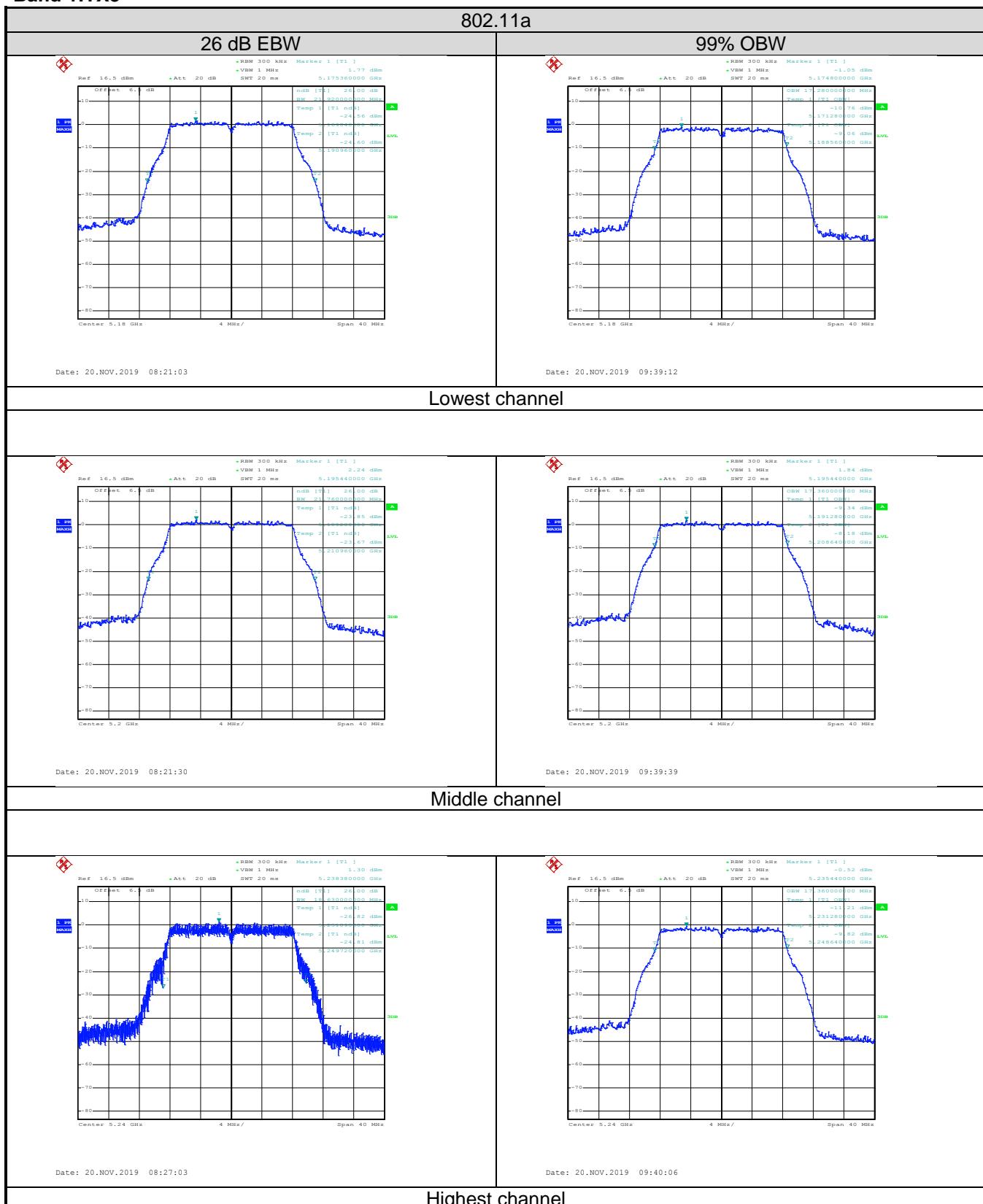
## Band 4: 6 dB EBW

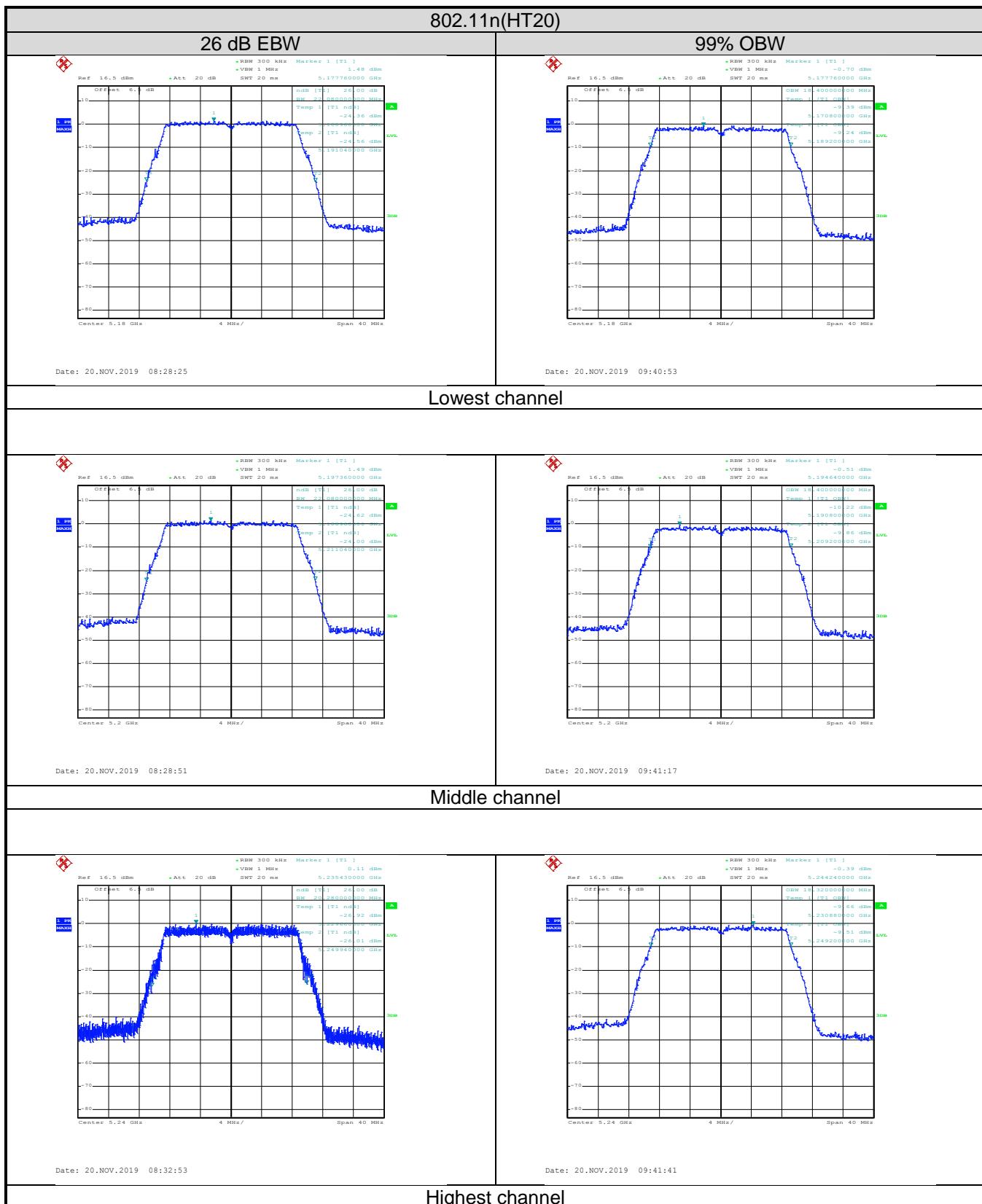


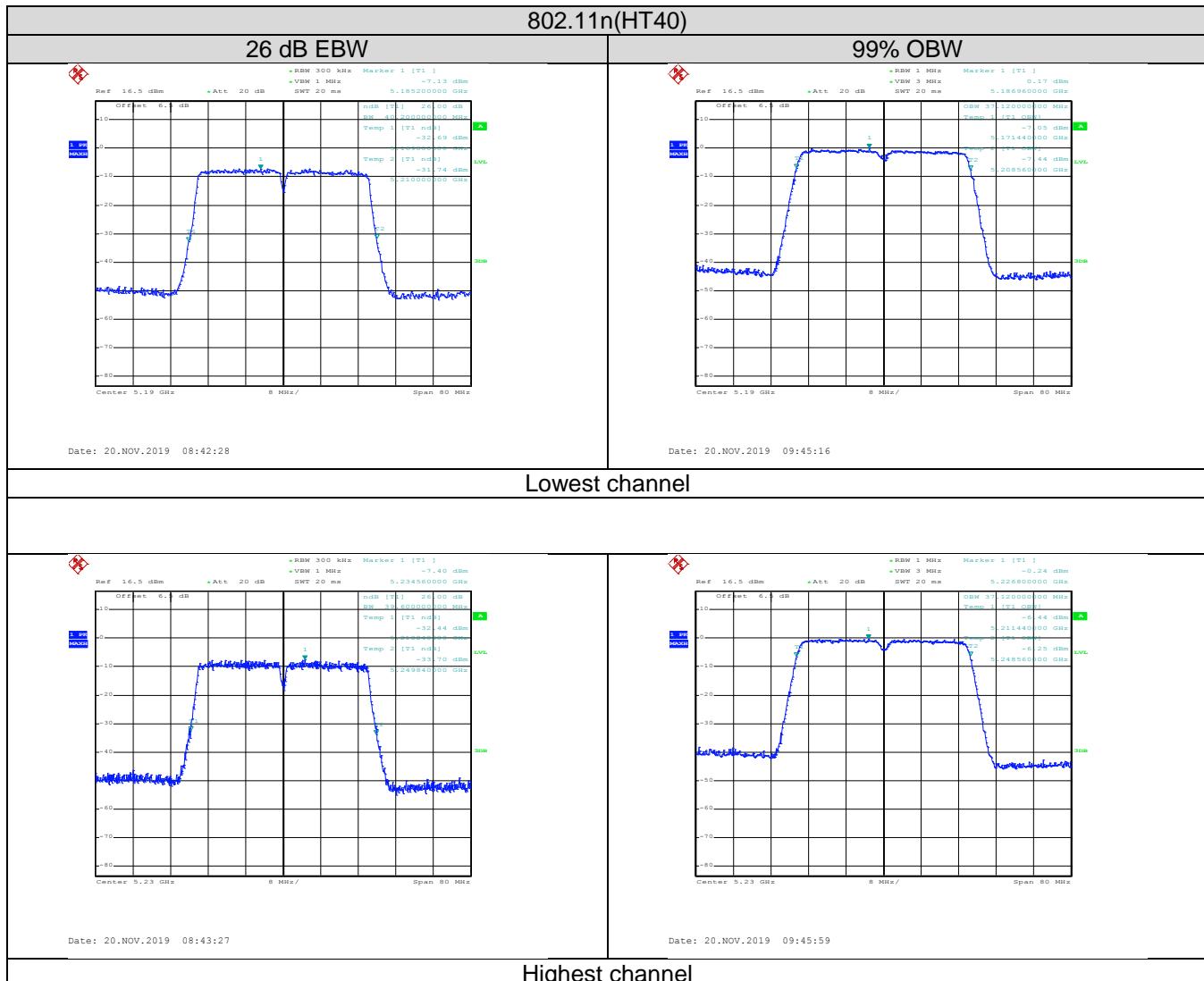


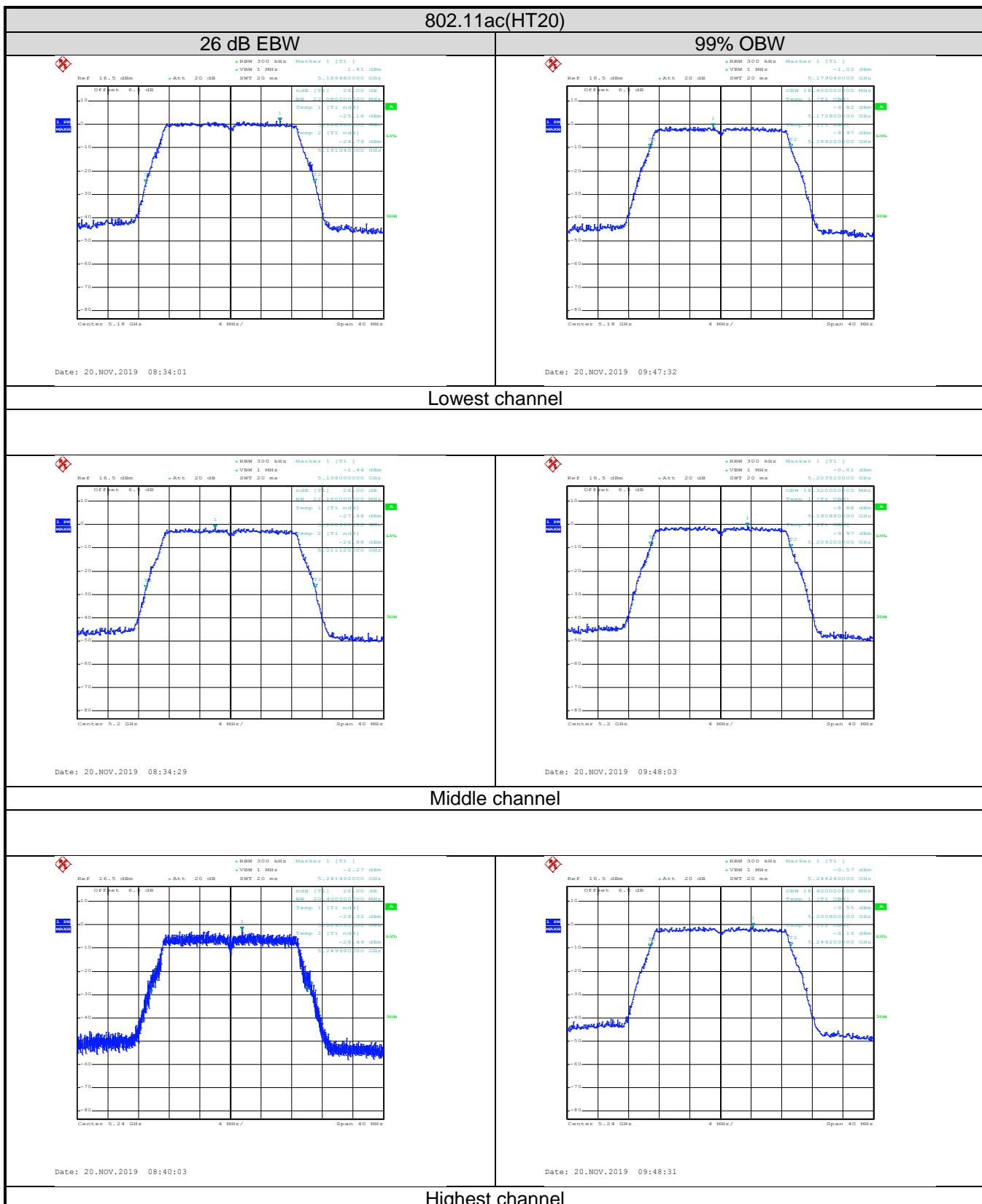


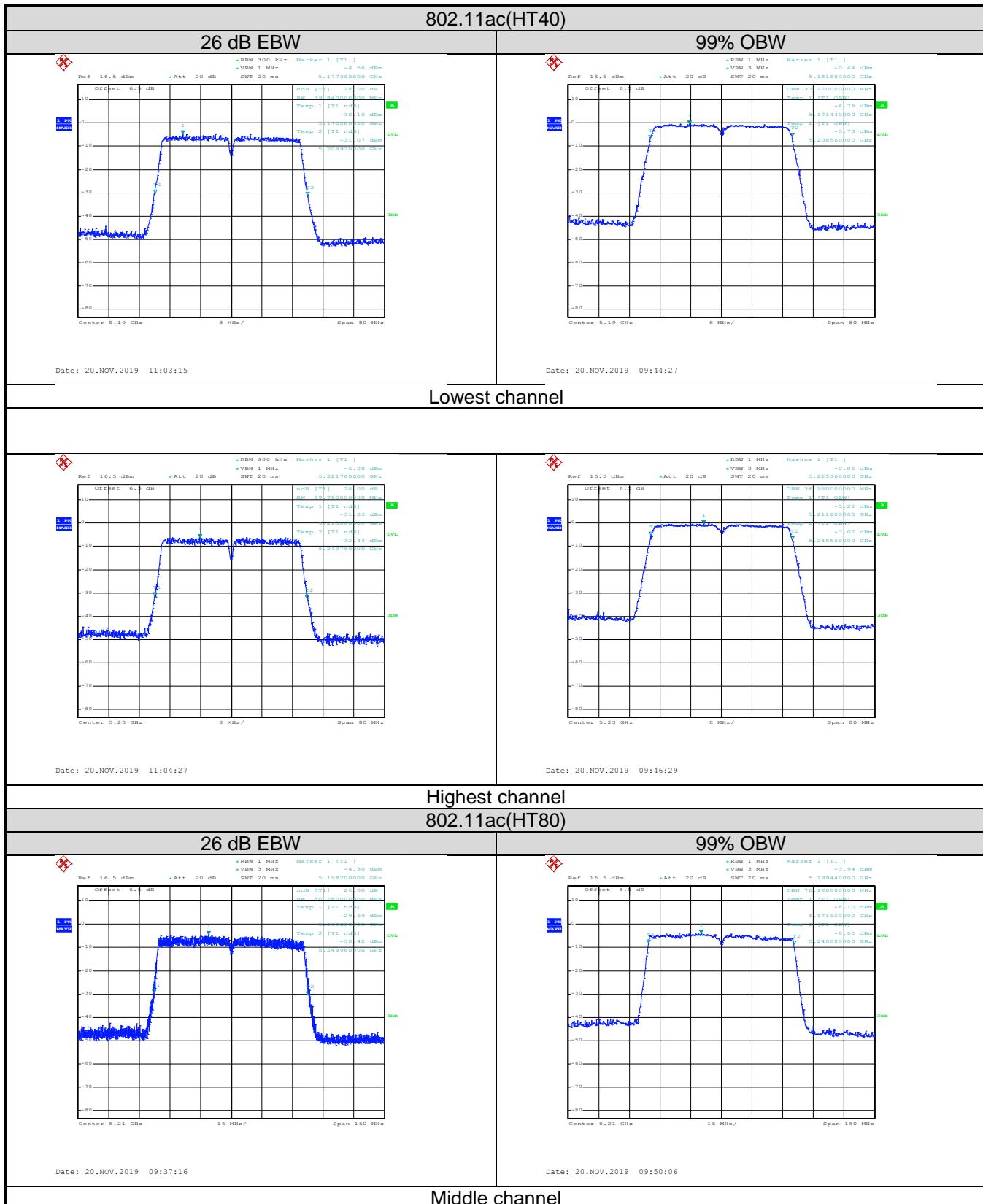
**Right module:**  
**Band 1:TX3**



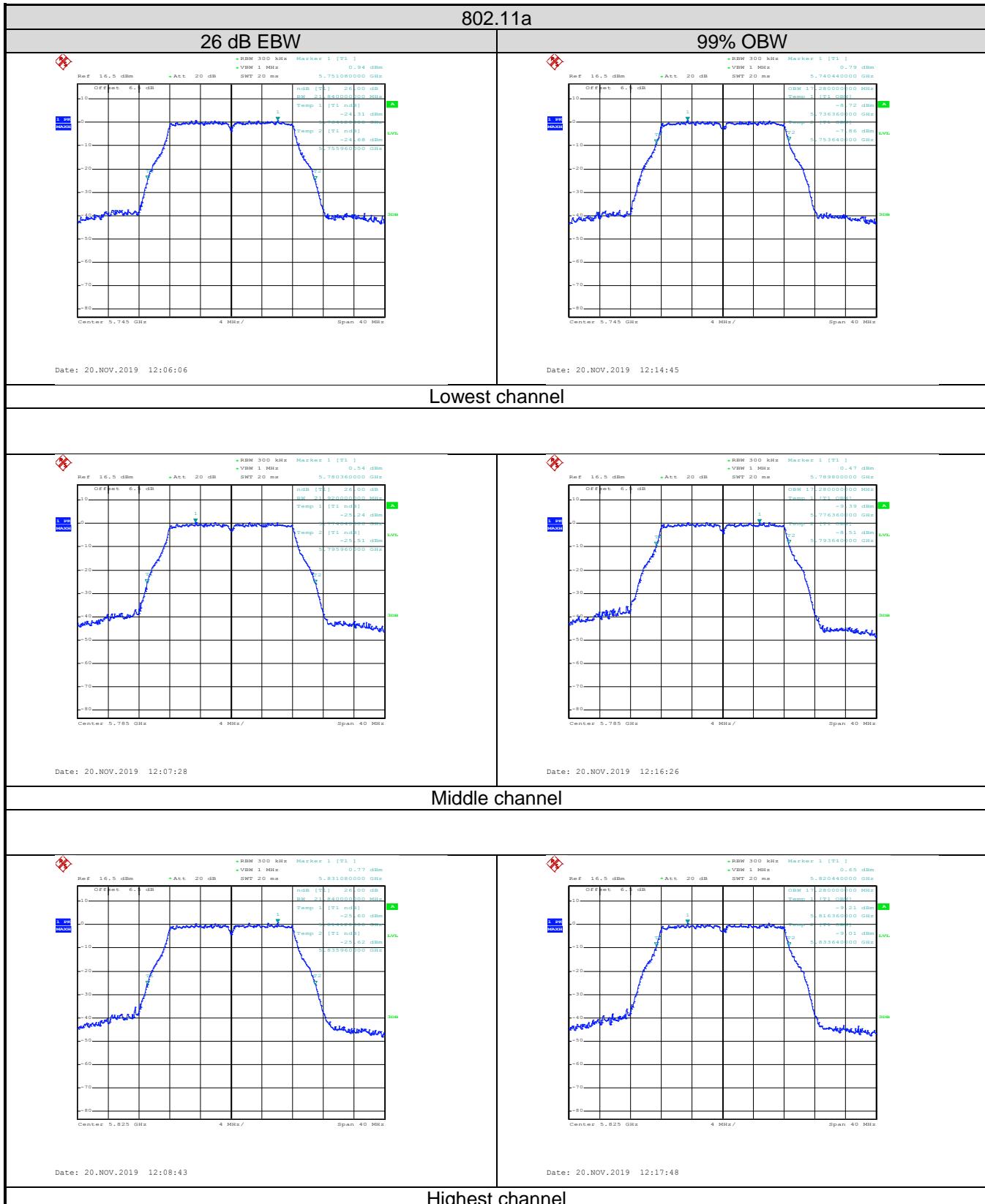


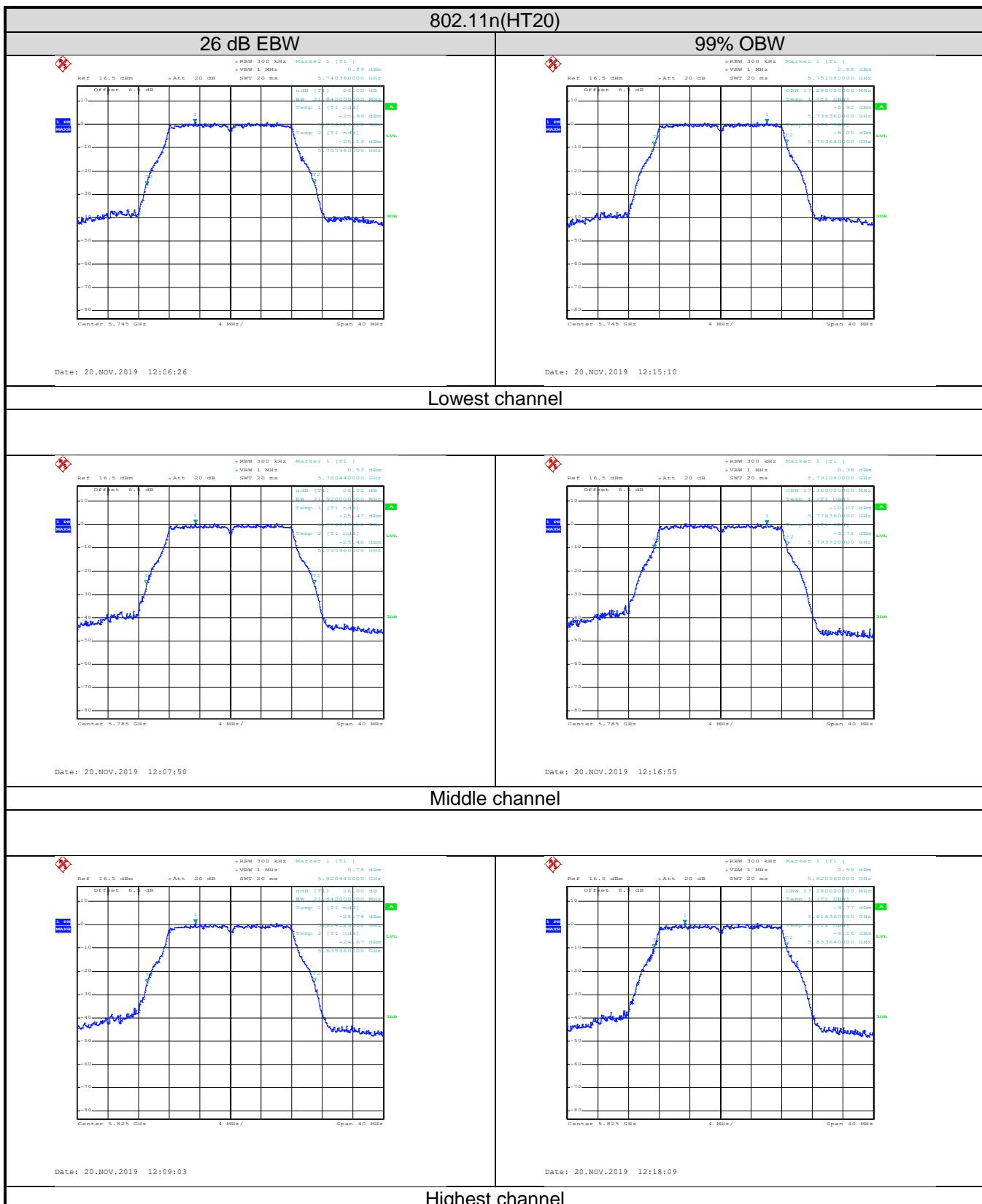


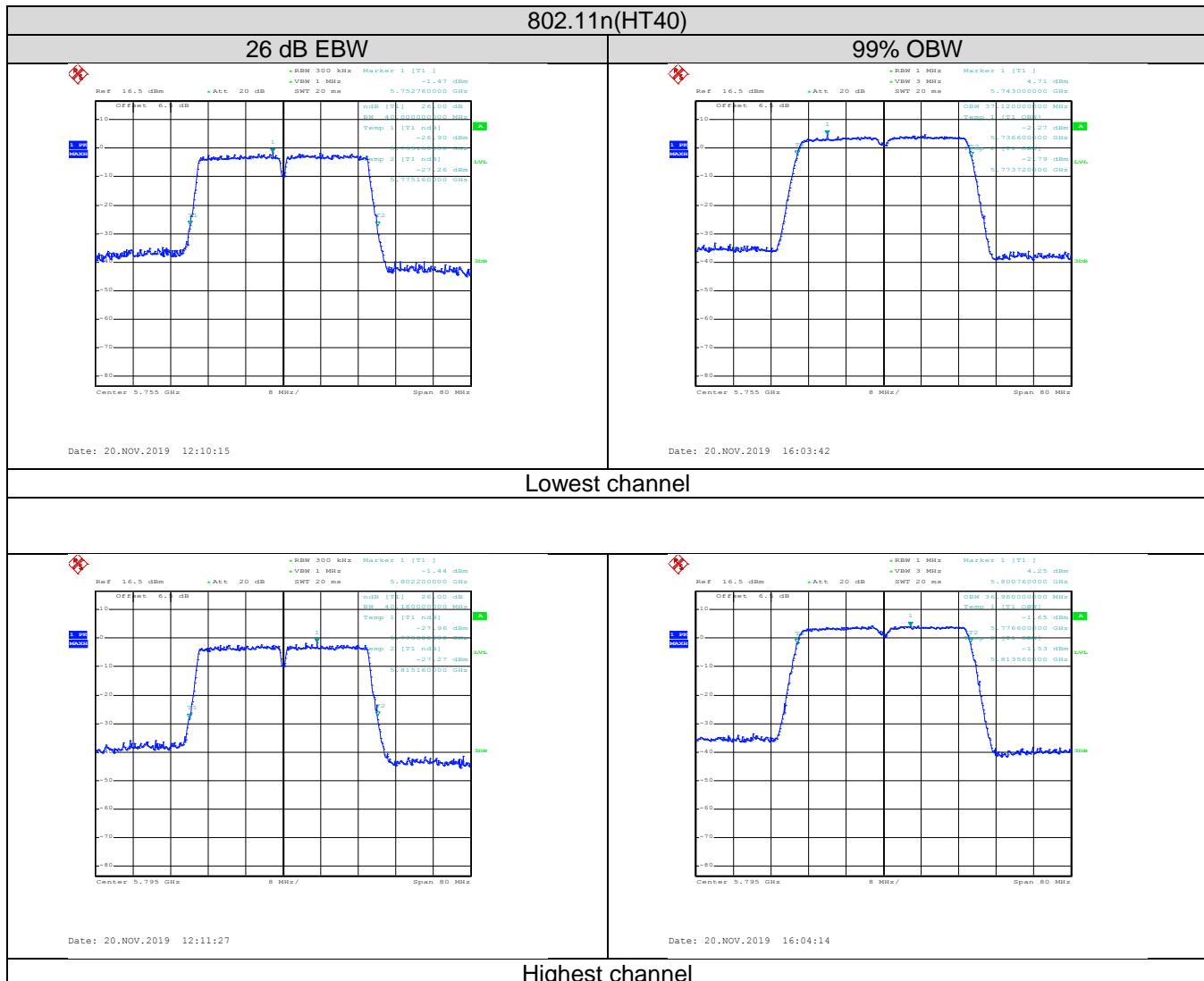


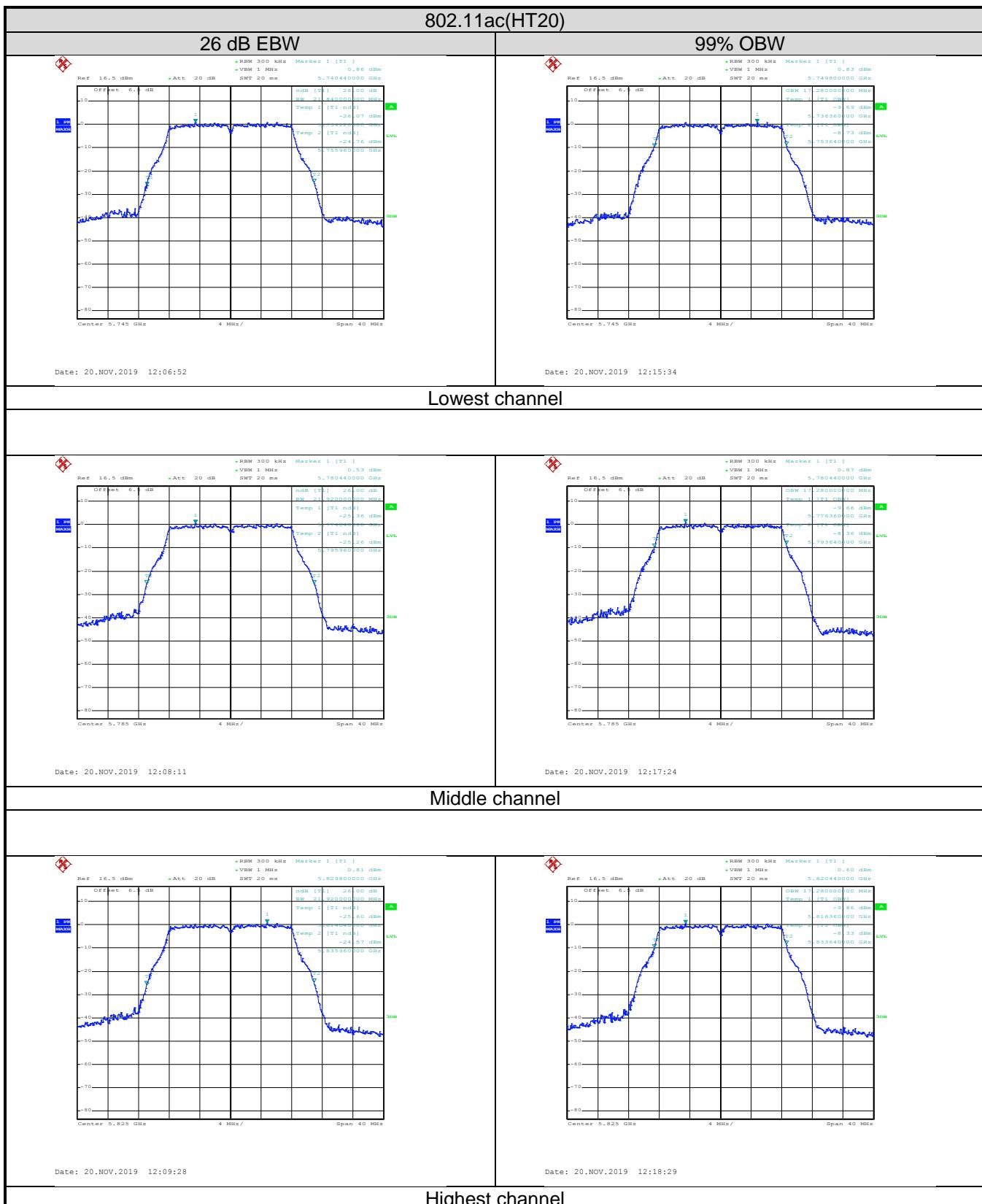


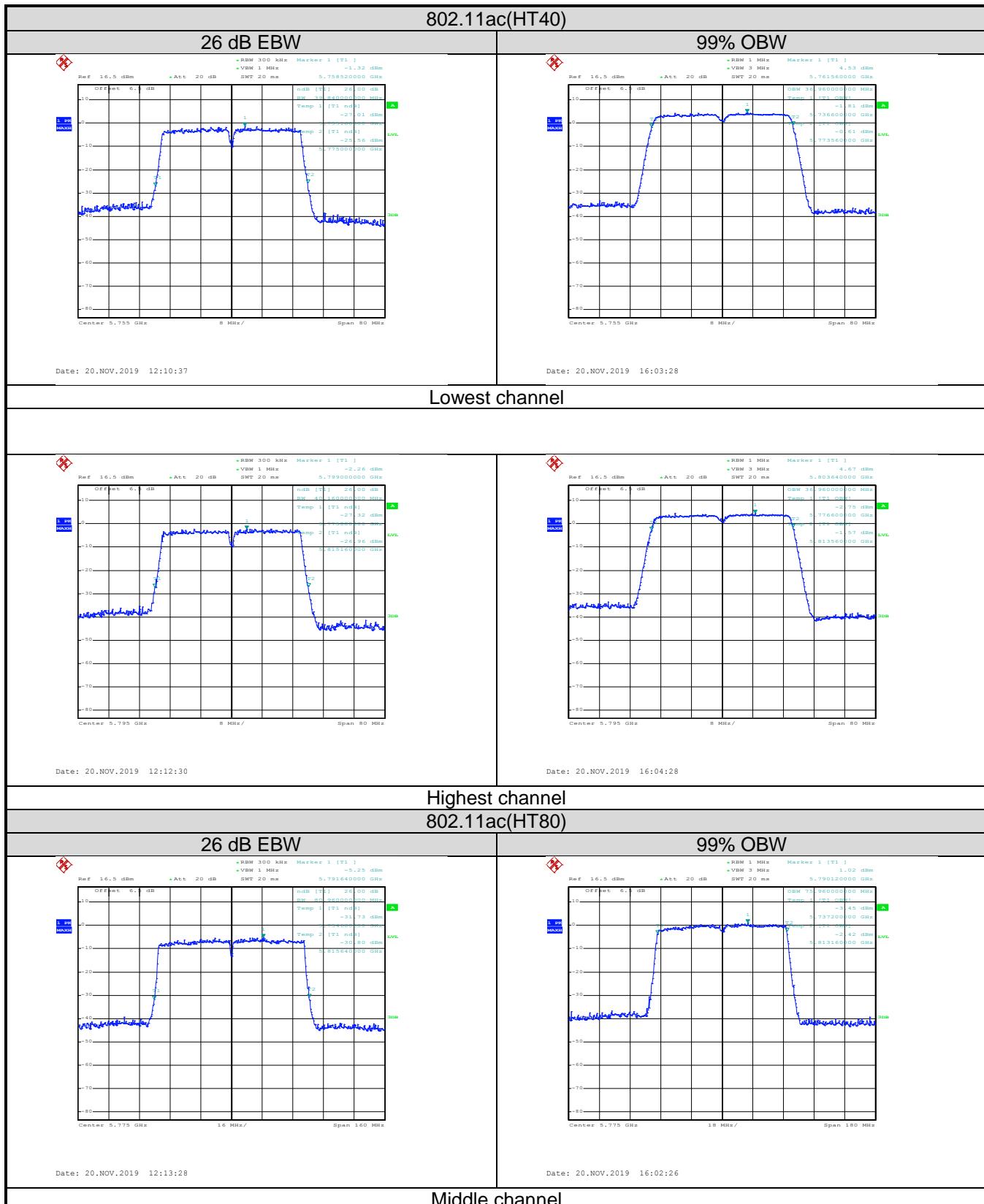
Band 4:TX3



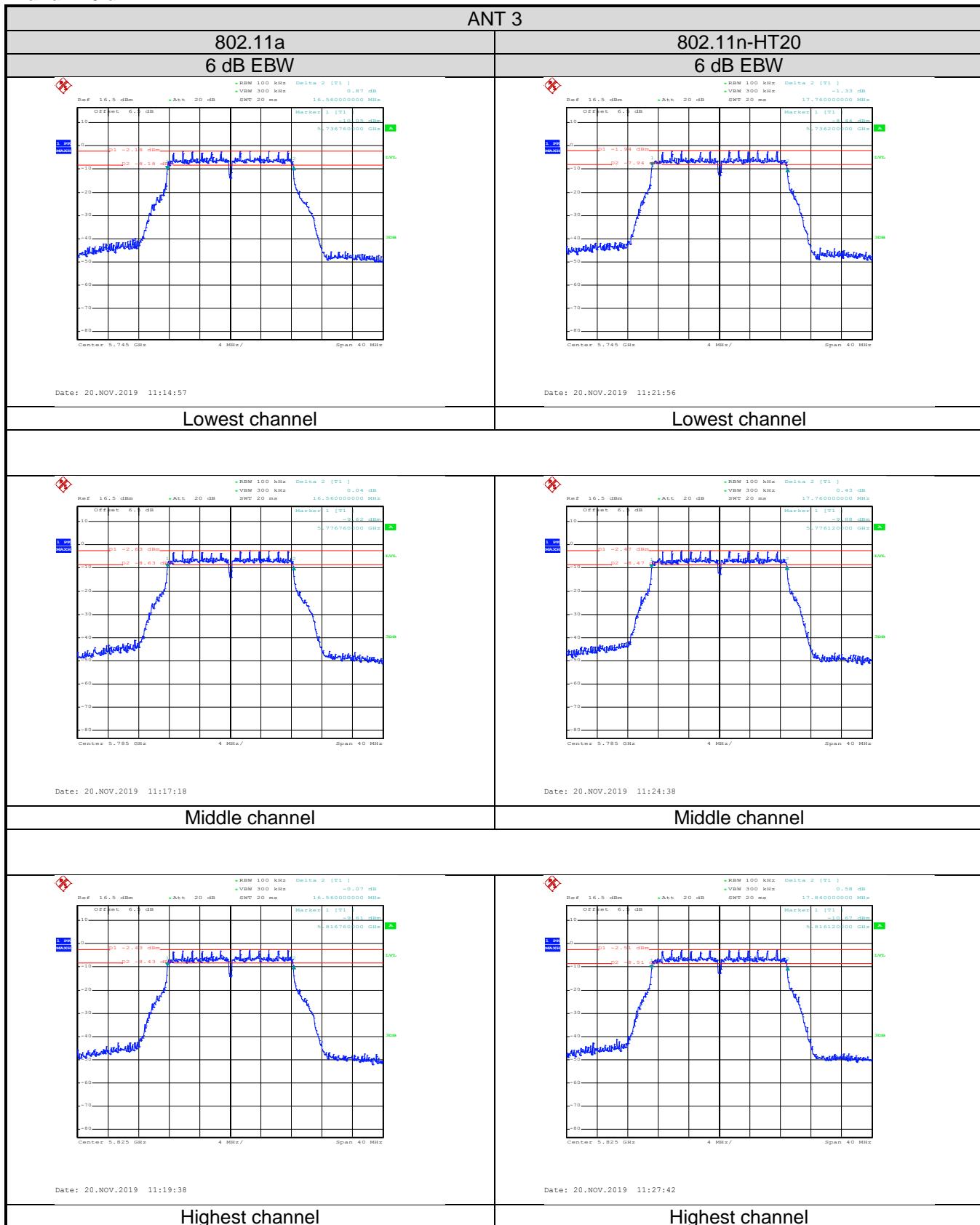


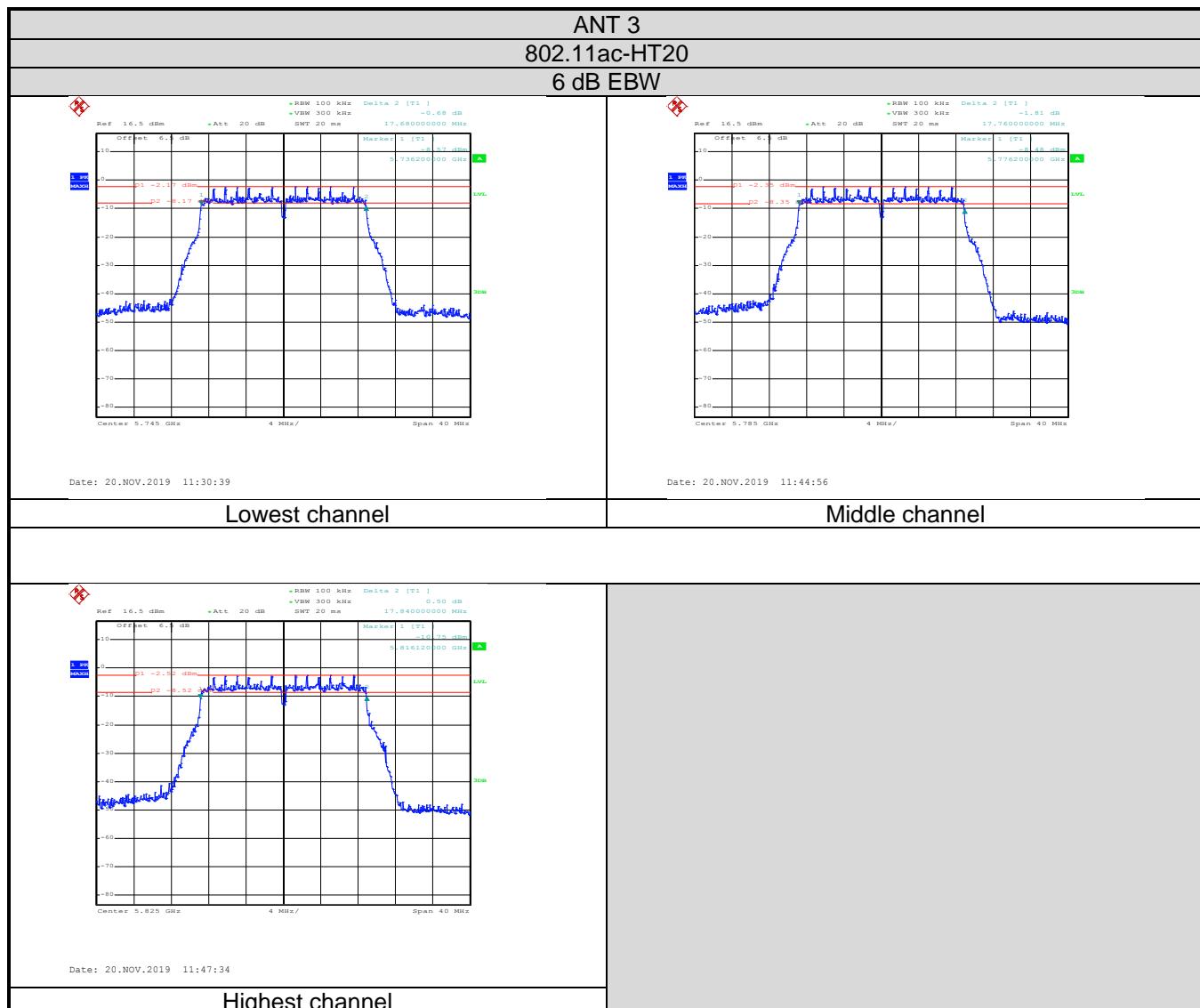


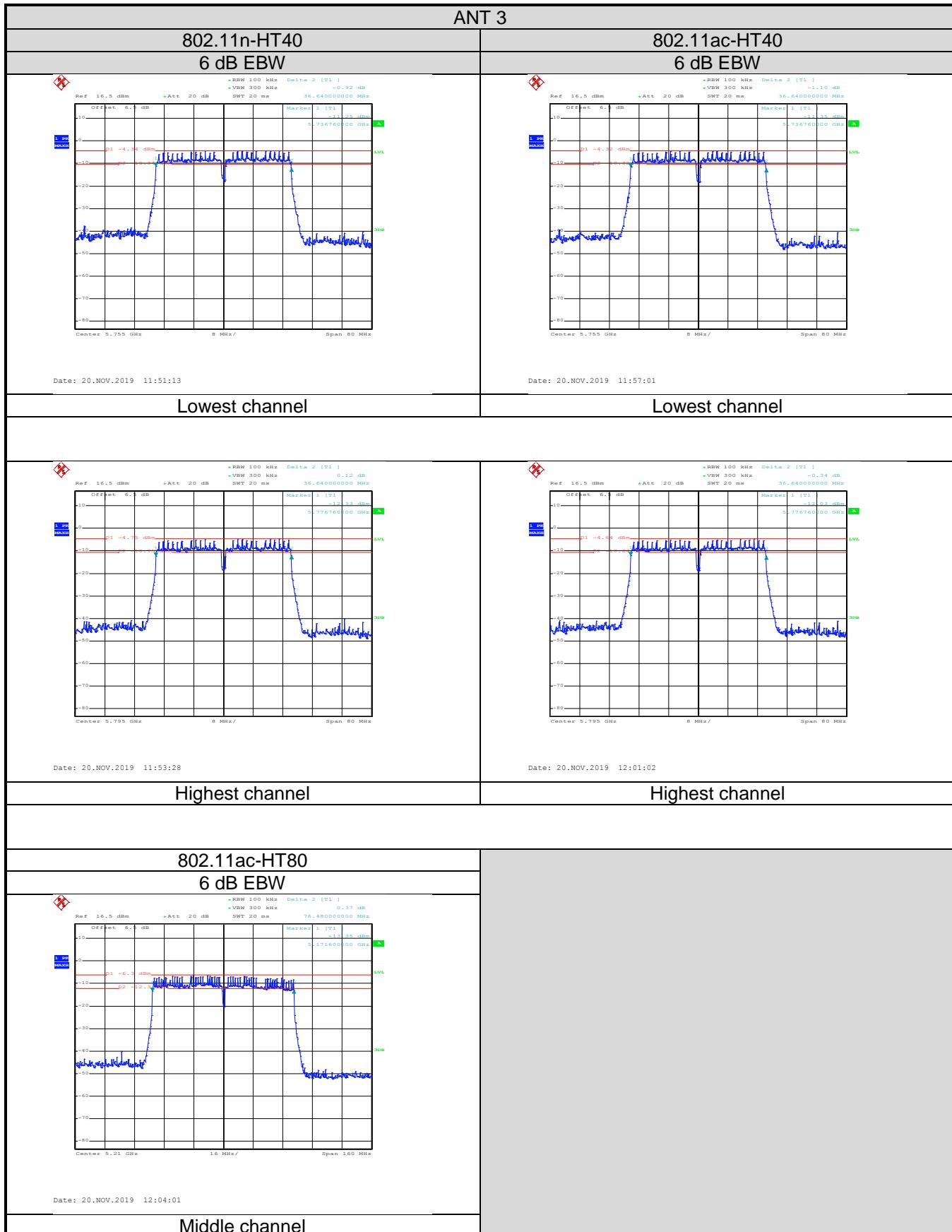




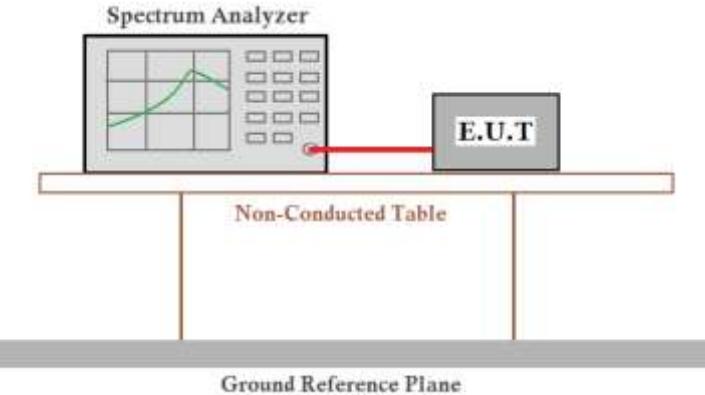
## Band 4: 6 dB EBW







## 6.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407 (a) (1) (iv) & (a)(3)
Test Method:	ANSI C63.10:2013, KDB 789033
Limit:	Band 1: 11 dBm/MHz Band 4: 30 dBm/500kHz
Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

**Measurement Data:****Left module:**

Band 1						
Mode	Test CH	Ant. Port	Conducted PSD(dBm)	Total PSD (dBm)	Limit (dBm)	Result
802.11a	Lowest	TX1	0.56	/	11.00	Pass
		TX2	0.66	/		
	Middle	TX1	0.65	/	11.00	Pass
		TX2	0.76	/		
	Highest	TX1	0.96	/	11.00	Pass
		TX2	0.79	/		
802.11n20	Lowest	TX1	0.28	3.39	11.00	Pass
		TX2	0.47			
	Middle	TX1	0.29	3.36	11.00	Pass
		TX2	0.41			
	Highest	TX1	0.62	3.65	11.00	Pass
		TX2	0.66			
802.11n40	Lowest	TX1	-7.73	-4.58	11.00	Pass
		TX2	-7.46			
	Highest	TX1	-7.56	-4.39	11.00	Pass
		TX2	-7.25			
802.11ac20	Lowest	TX1	0.36	3.46	11.00	Pass
		TX2	0.53			
	Middle	TX1	0.18	3.33	11.00	Pass
		TX2	0.45			
	Highest	TX1	0.85	3.77	11.00	Pass
		TX2	0.67			
802.11ac40	Lowest	TX1	-7.82	-4.55	11.00	Pass
		TX2	-7.31			
	Highest	TX1	-7.37	-4.42	11.00	Pass
		TX2	-7.50			
802.11ac80	Middle	TX1	-10.18	-7.12	11.00	Pass
		TX2	-10.09			

**Remark:**

- Because transmit signals are correlated, Directional gain =  $10 \log[(10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(GN/20)})^2 / N_{ANT}]$ , So the Directional gain=  $10 \log[(10^{(3.3/20)} + 10^{(2.6/20)})^2/2] = 5.97 \text{ dB}$
- The directional Gain of antenna is not greater than 6 dBi, so the limit of PSD is 11 dBm.

Band 4						
Mode	Test CH	Ant. Port	Conducted PSD(dBm)	Total PSD (dBm)	Limit (dBm)	Result
802.11a	Lowest	TX1	1.97	/	28.65	Pass
		TX2	2.73	/		
	Middle	TX1	1.78	/	28.65	Pass
		TX2	2.21	/		
	Highest	TX1	1.76	/	28.65	Pass
		TX2	2.32	/		
802.11n20	Lowest	TX1	1.13	4.73	28.65	Pass
		TX2	2.23			
	Middle	TX1	1.10	4.58	28.65	Pass
		TX2	2.00			
	Highest	TX1	1.27	4.98	28.65	Pass
		TX2	2.57			
802.11n40	Lowest	TX1	-0.77	2.74	28.65	Pass
		TX2	0.17			
	Highest	TX1	-0.30	2.64	28.65	Pass
		TX2	-0.45			
802.11ac20	Lowest	TX1	1.25	4.60	28.65	Pass
		TX2	1.90			
	Middle	TX1	1.07	4.97	28.65	Pass
		TX2	2.69			
	Highest	TX1	1.89	5.19	28.65	Pass
		TX2	2.46			
802.11ac40	Lowest	TX1	-0.56	2.43	28.65	Pass
		TX2	-0.60			
	Highest	TX1	-1.15	2.25	28.65	Pass
		TX2	-0.41			
802.11ac80	Middle	TX1	-4.88	-0.69	28.65	Pass
		TX2	-2.78			

**Remark:**

- Because transmit signals are correlated, Directional gain =  $10 \log[(10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(GN/20)})^2 / N_{ANT}]$ , So the Directional gain=  $10 \log[(10^{(3.4/20)} + 10^{(5.2/20)})^2/2] = 7.35 \text{ dBi}$
- The directional Gain of antenna is greater than 6 dBi, so the limit of PSD is 28.65 dBm.

## Right module:

Band 1						
Mode	Test CH	Ant. Port	Conducted PSD(dBm)	Total PSD (dBm)	Limit (dBm)	Result
802.11a	Lowest	TX3	-0.14	/	11.00	Pass
		TX4	-0.26	/		
	Middle	TX3	-0.38	/	11.00	Pass
		TX4	-0.31	/		
	Highest	TX3	-0.60	/	11.00	Pass
		TX4	-0.43	/		
802.11n20	Lowest	TX3	-0.19	2.78	11.00	Pass
		TX4	-0.28			
	Middle	TX3	-0.40	2.57	11.00	Pass
		TX4	-0.48			
	Highest	TX3	-0.28	2.76	11.00	Pass
		TX4	-0.23			
802.11n40	Lowest	TX3	-0.85	-0.21	11.00	Pass
		TX4	-8.81			
	Highest	TX3	-0.86	-0.25	11.00	Pass
		TX4	-9.09			
802.11ac20	Lowest	TX3	-0.18	2.83	11.00	Pass
		TX4	-0.19			
	Middle	TX3	-0.76	2.21	11.00	Pass
		TX4	-0.84			
	Highest	TX3	-0.28	2.75	11.00	Pass
		TX4	-0.25			
802.11ac40	Lowest	TX3	-9.02	-5.93	11.00	Pass
		TX4	-8.86			
	Highest	TX3	-8.84	-5.93	11.00	Pass
		TX4	-9.04			
802.11ac80	Middle	TX3	-11.96	-8.43	11.00	Pass
		TX4	-10.97			

## Remark:

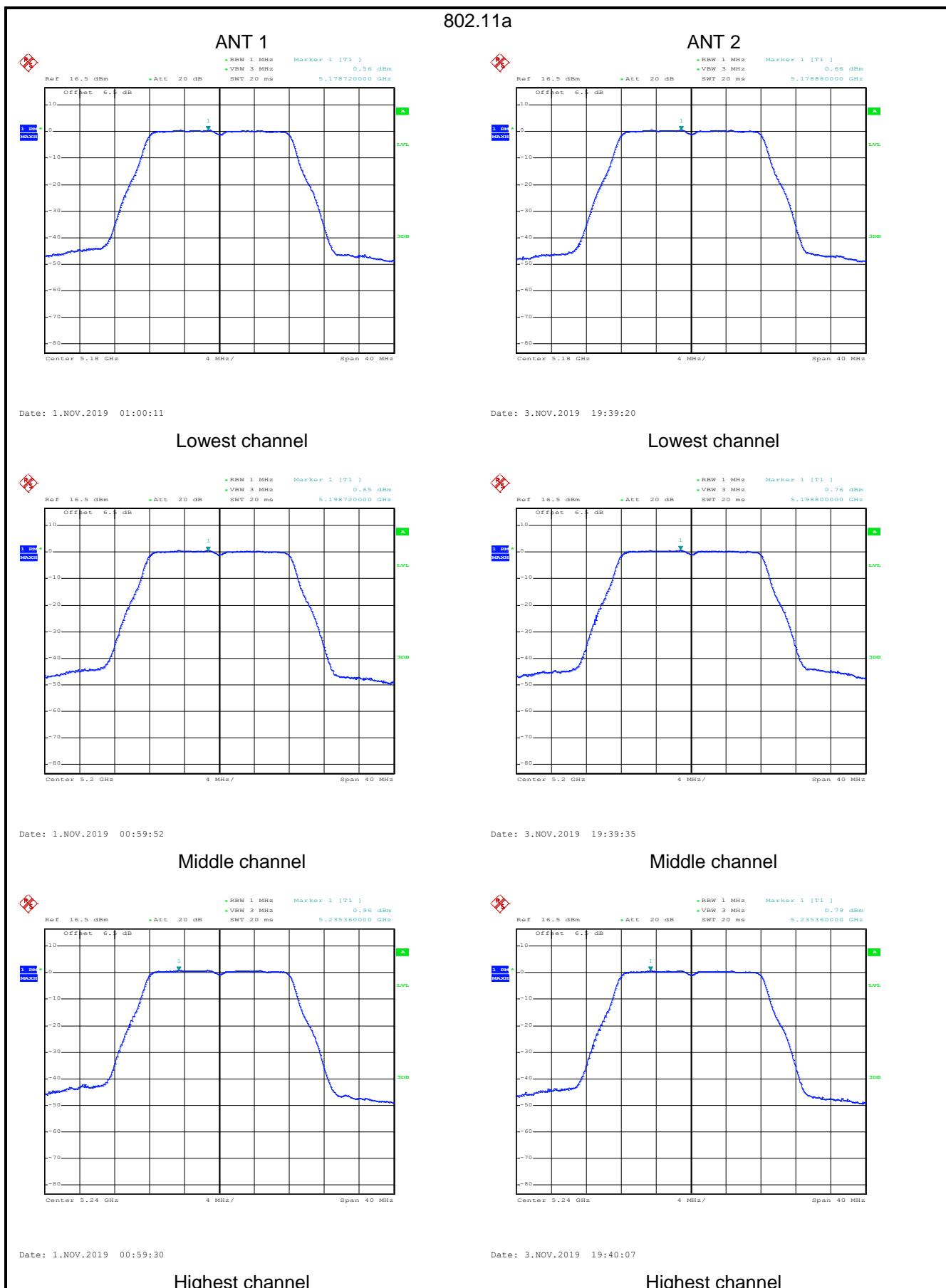
- Because transmit signals are correlated, Directional gain =  $10 \log[(10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(GN/20)})^2 / N_{ANT}]$ , So the Directional gain=  $10 \log[(10^{(2.4/20)} + 10^{(2.5/20)})^2/2] = 5.46 dB$
- The directional Gain of antenna is not greater than 6 dBi, so the limit of PSD is 11 dBm.

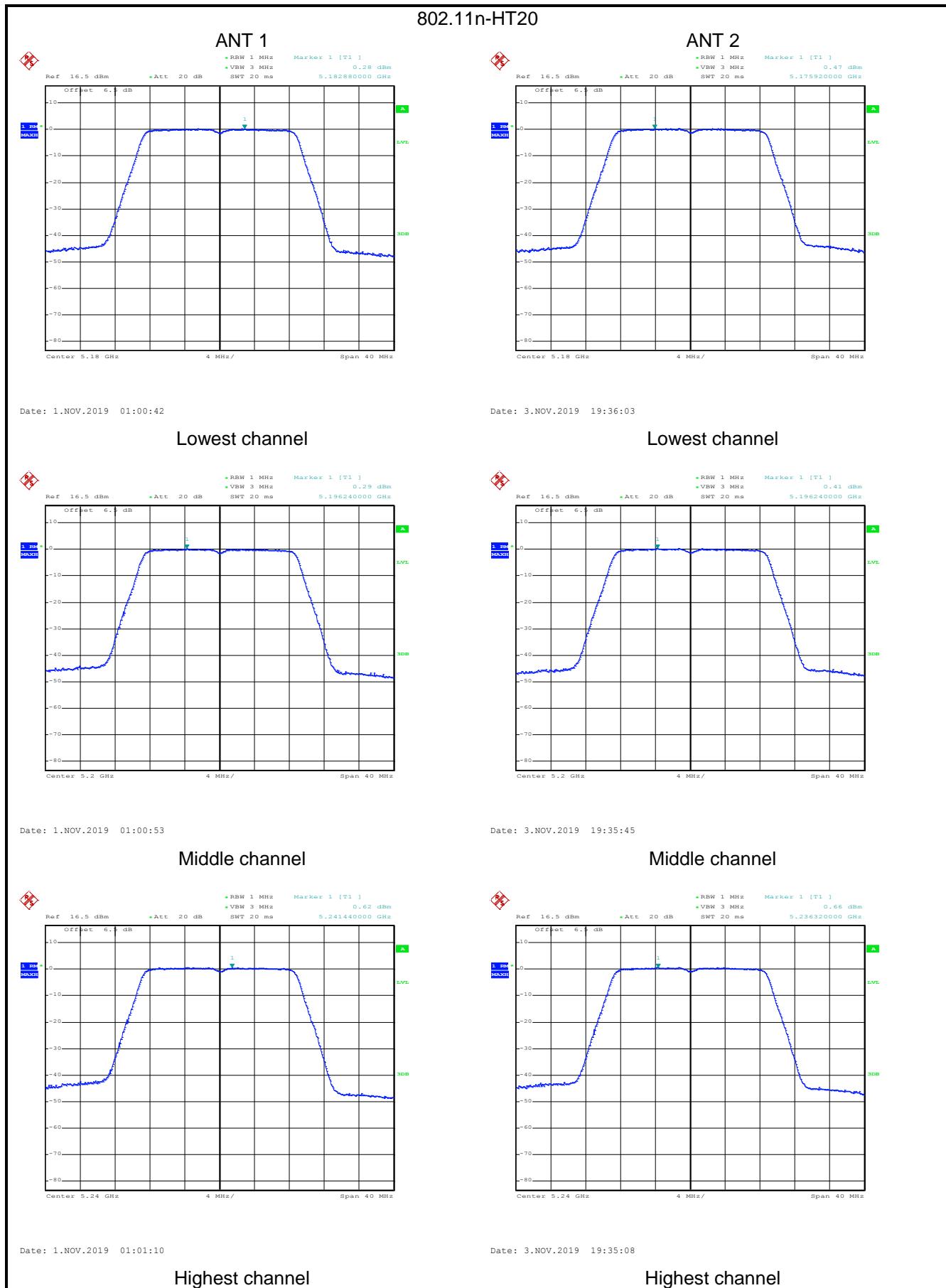
Band 4						
Mode	Test CH	Ant. Port	Conducted PSD(dBm)	Total PSD (dBm)	Limit (dBm)	Result
802.11a	Lowest	TX3	1.29	/	28.91	Pass
		TX4	1.33	/		
	Middle	TX3	1.60	/	28.91	Pass
		TX4	1.53	/		
	Highest	TX3	2.29	/	28.91	Pass
		TX4	2.01	/		
802.11n20	Lowest	TX3	1.69	4.94	28.91	Pass
		TX4	2.16			
	Middle	TX3	1.93	4.85	28.91	Pass
		TX4	1.74			
	Highest	TX3	1.62	4.60	28.91	Pass
		TX4	1.56			
802.11n40	Lowest	TX3	-0.63	2.44	28.91	Pass
		TX4	-0.52			
	Highest	TX3	-0.48	2.69	28.91	Pass
		TX4	-0.17			
802.11ac20	Lowest	TX3	2.06	4.80	28.91	Pass
		TX4	1.51			
	Middle	TX3	1.52	4.80	28.91	Pass
		TX4	2.05			
	Highest	TX3	1.62	4.73	28.91	Pass
		TX4	1.82			
802.11ac40	Lowest	TX3	-0.77	2.21	28.91	Pass
		TX4	-0.84			
	Highest	TX3	-0.65	2.38	28.91	Pass
		TX4	-0.62			
802.11ac80	Middle	TX3	-3.74	-0.36	28.91	Pass
		TX4	-3.03			

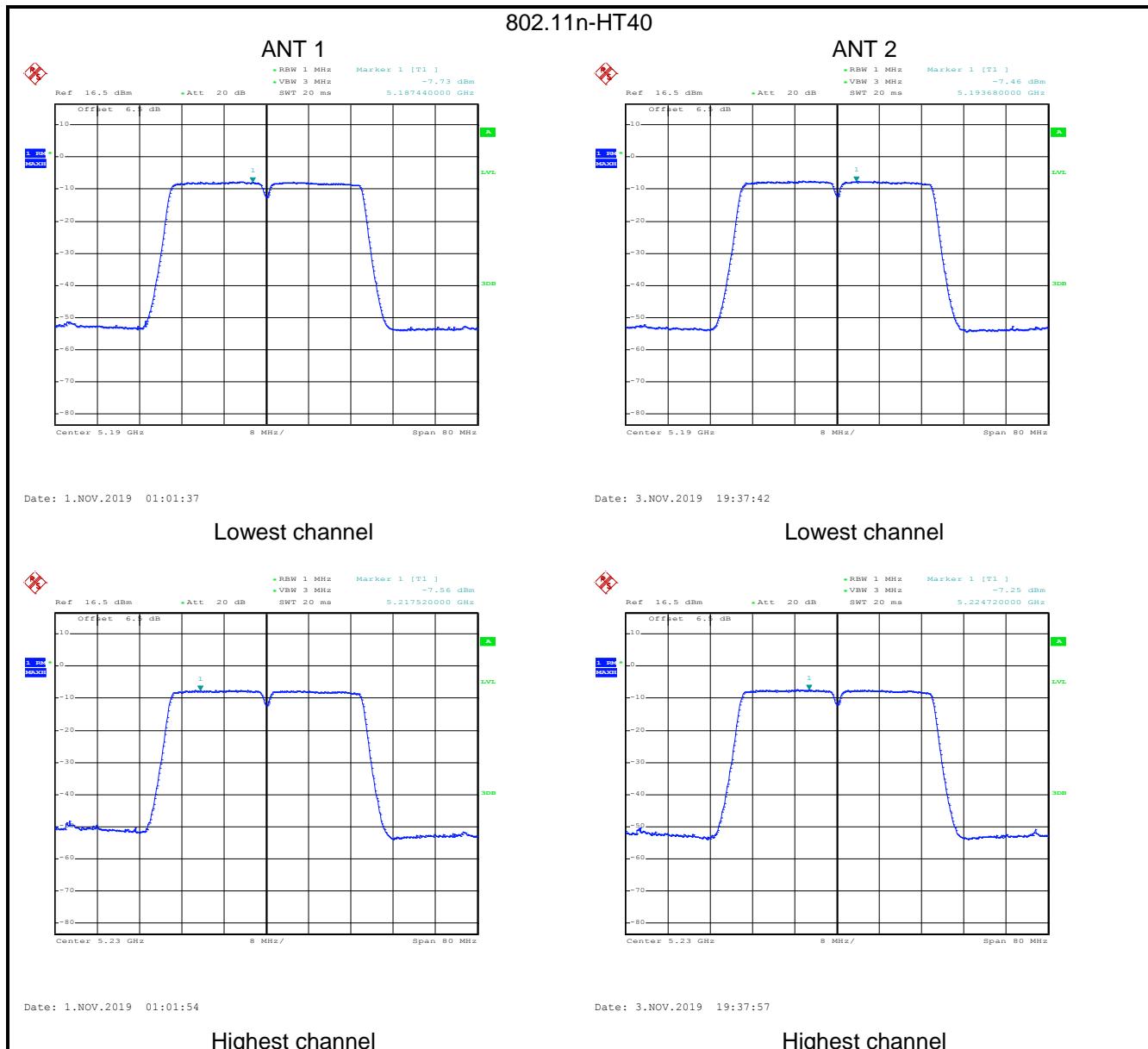
**Remark:**

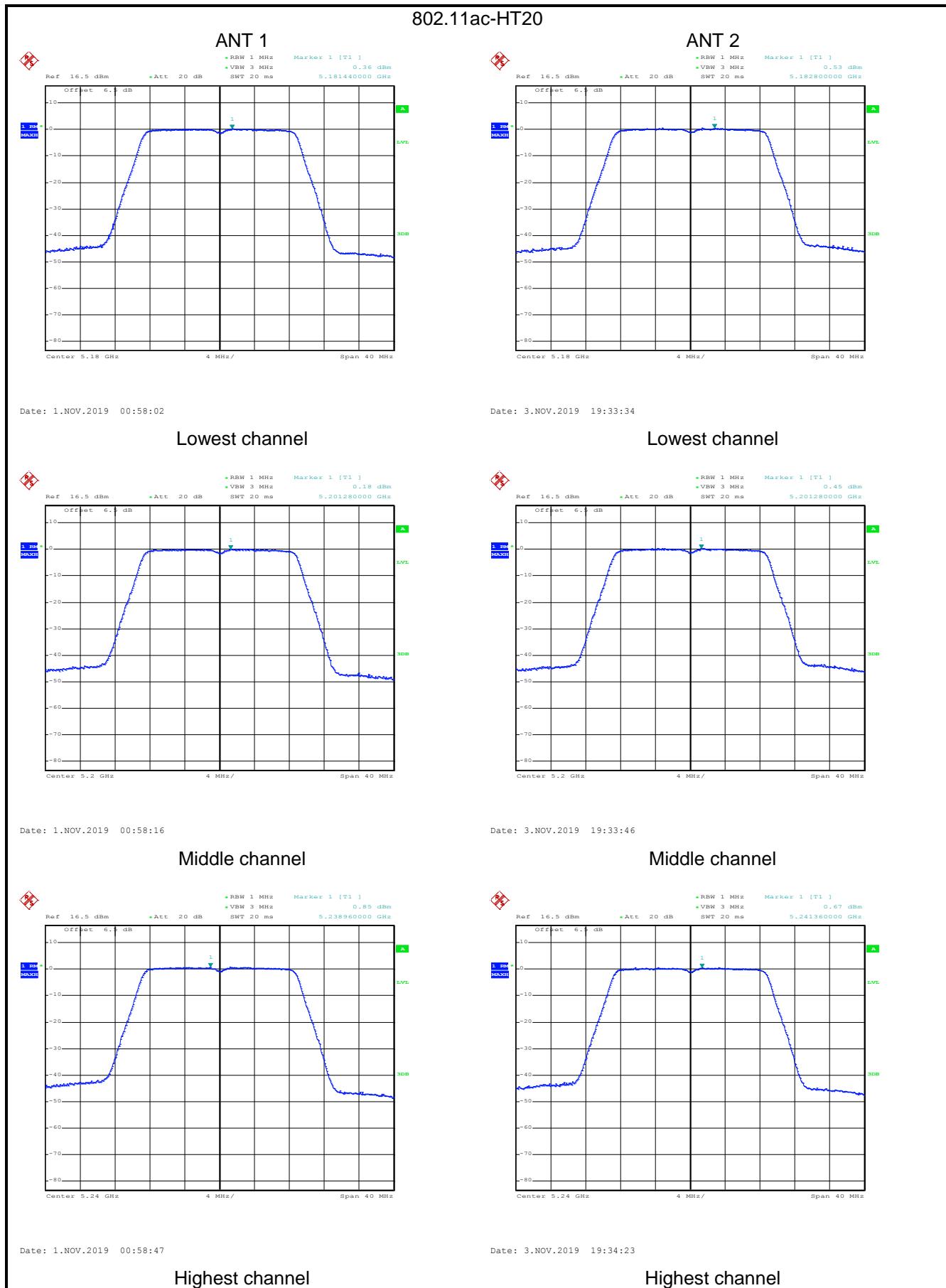
- Because transmit signals are correlated, Directional gain =  $10 \log[(10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(GN/20)})^2 / N_{ANT}]$ , So the Directional gain=  $10 \log[(10^{(4.3/20)} + 10^{(3.3/20)})^2/2] = 7.09 \text{ dBi}$
- The directional Gain of antenna is greater than 6 dBi, so the limit of PSD is 28.91 dBm.

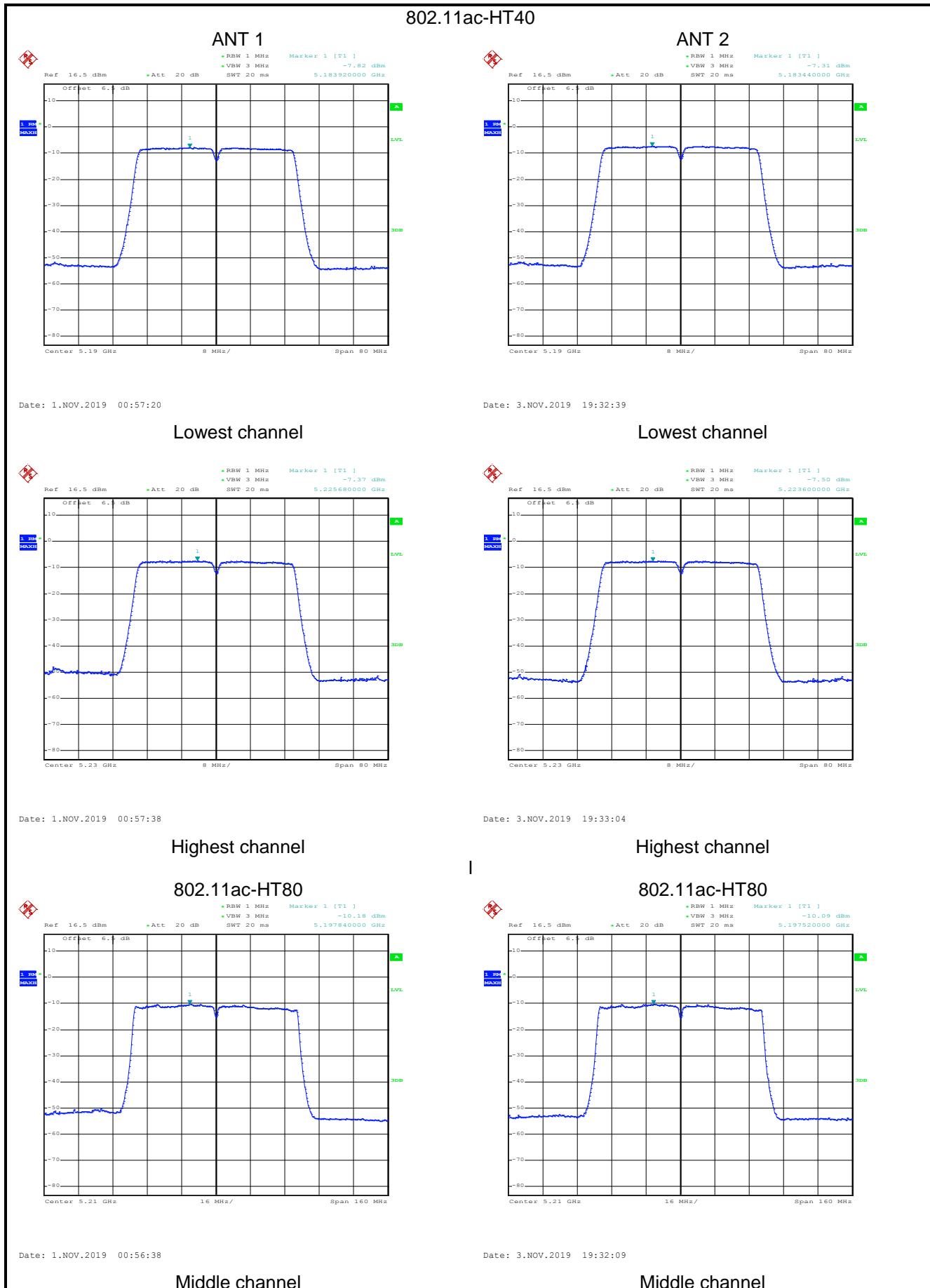
**Test plot as follows:**  
**Left module: Band1**





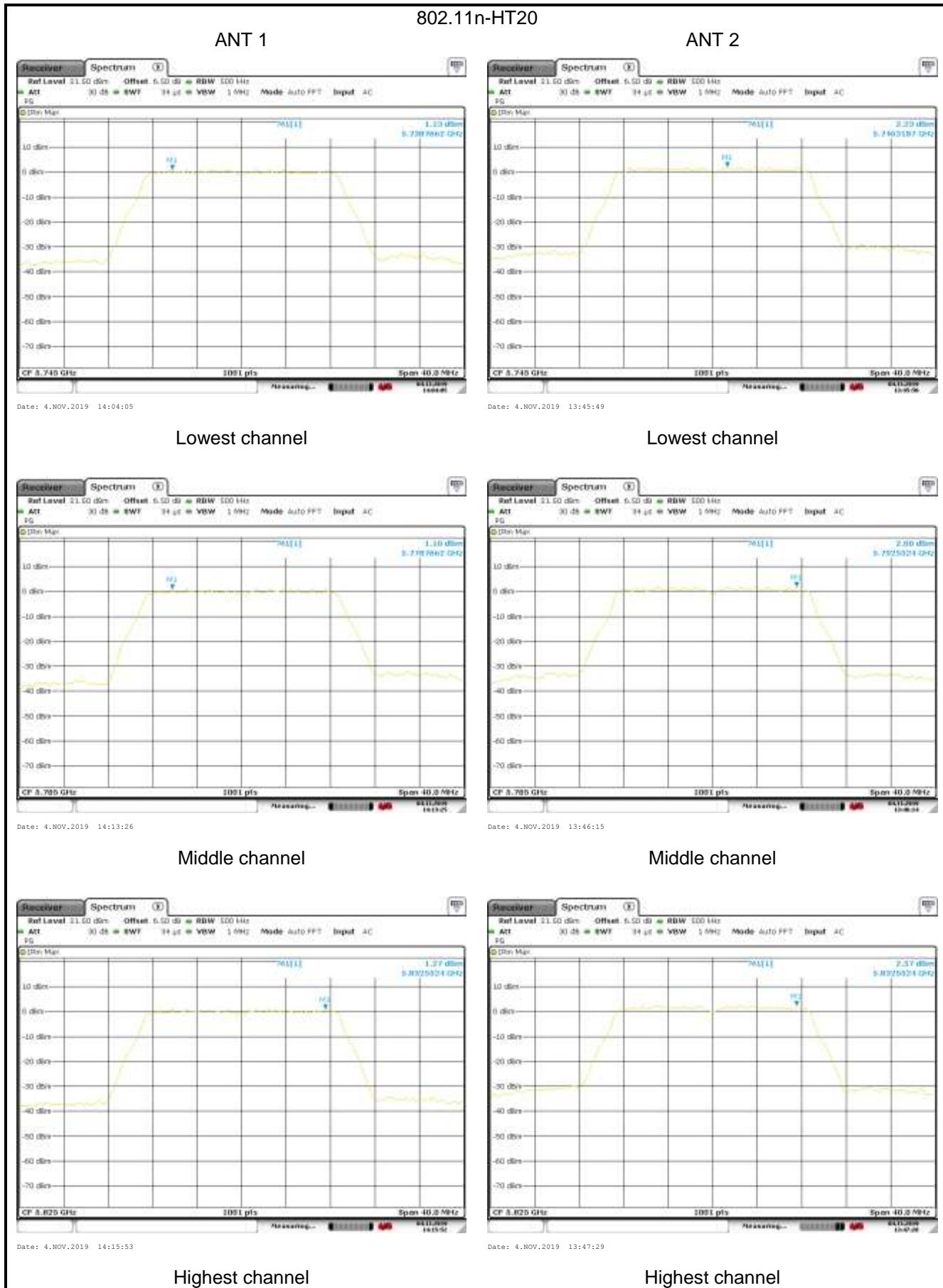


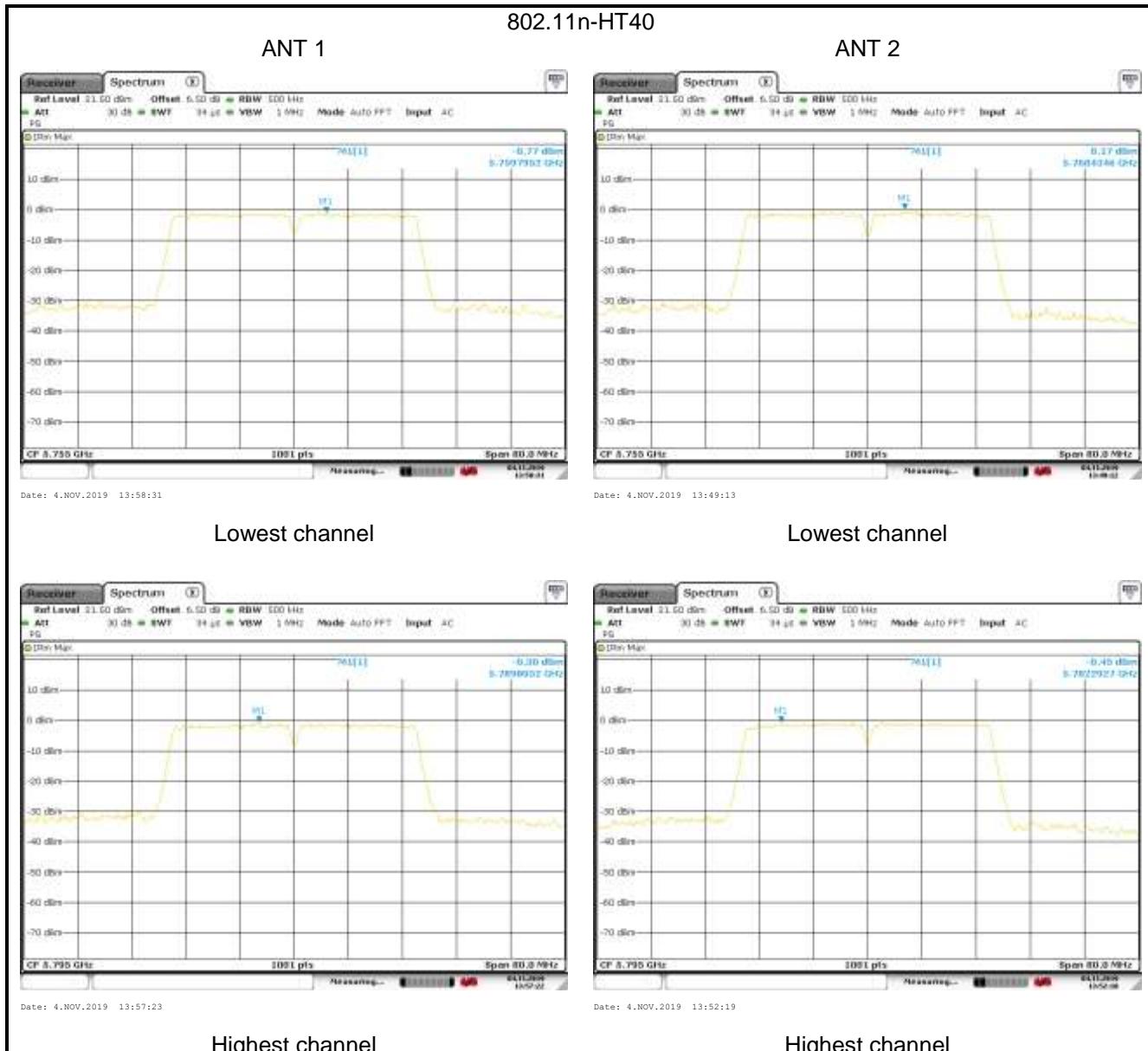


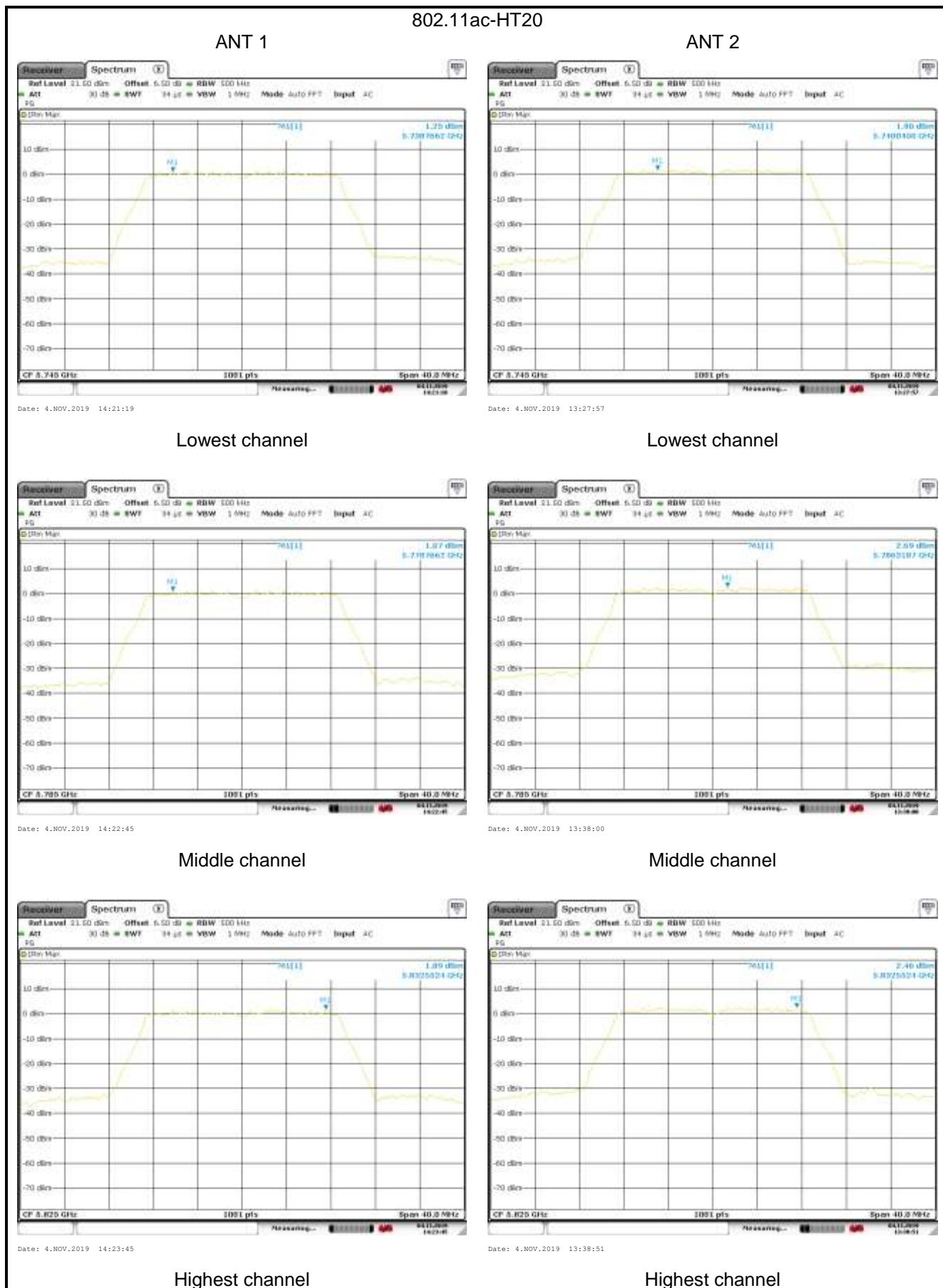


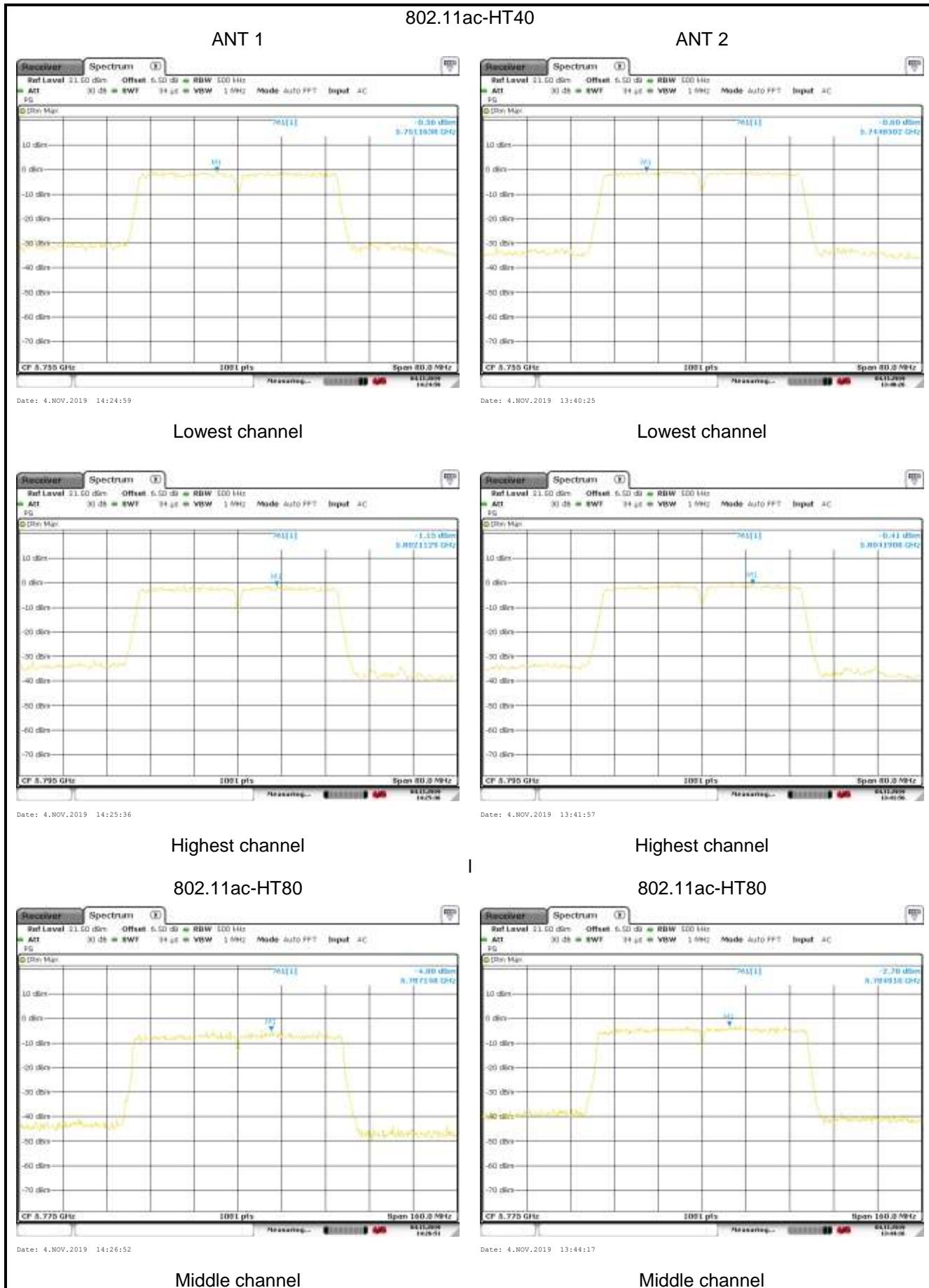
## Band 4:





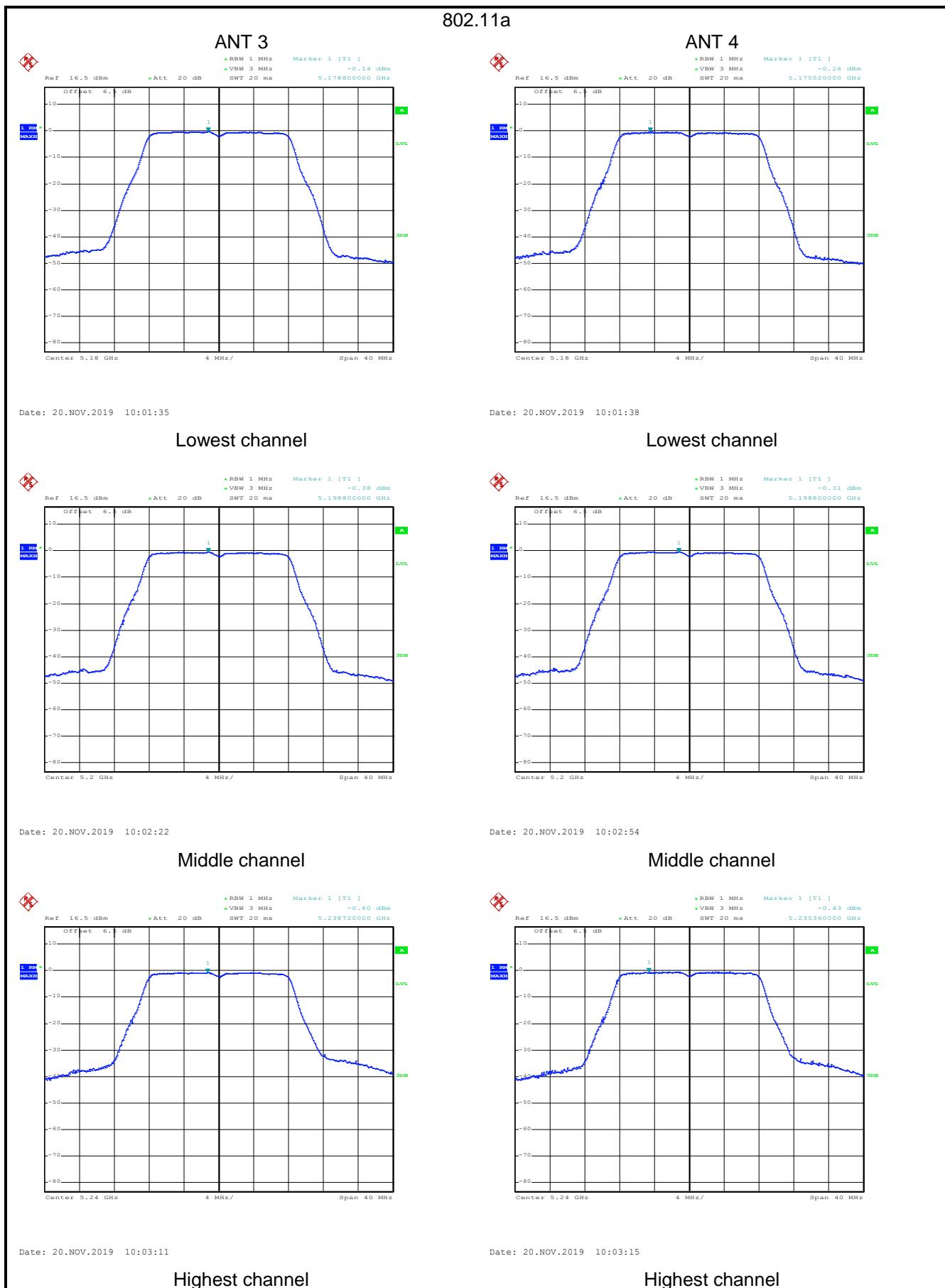


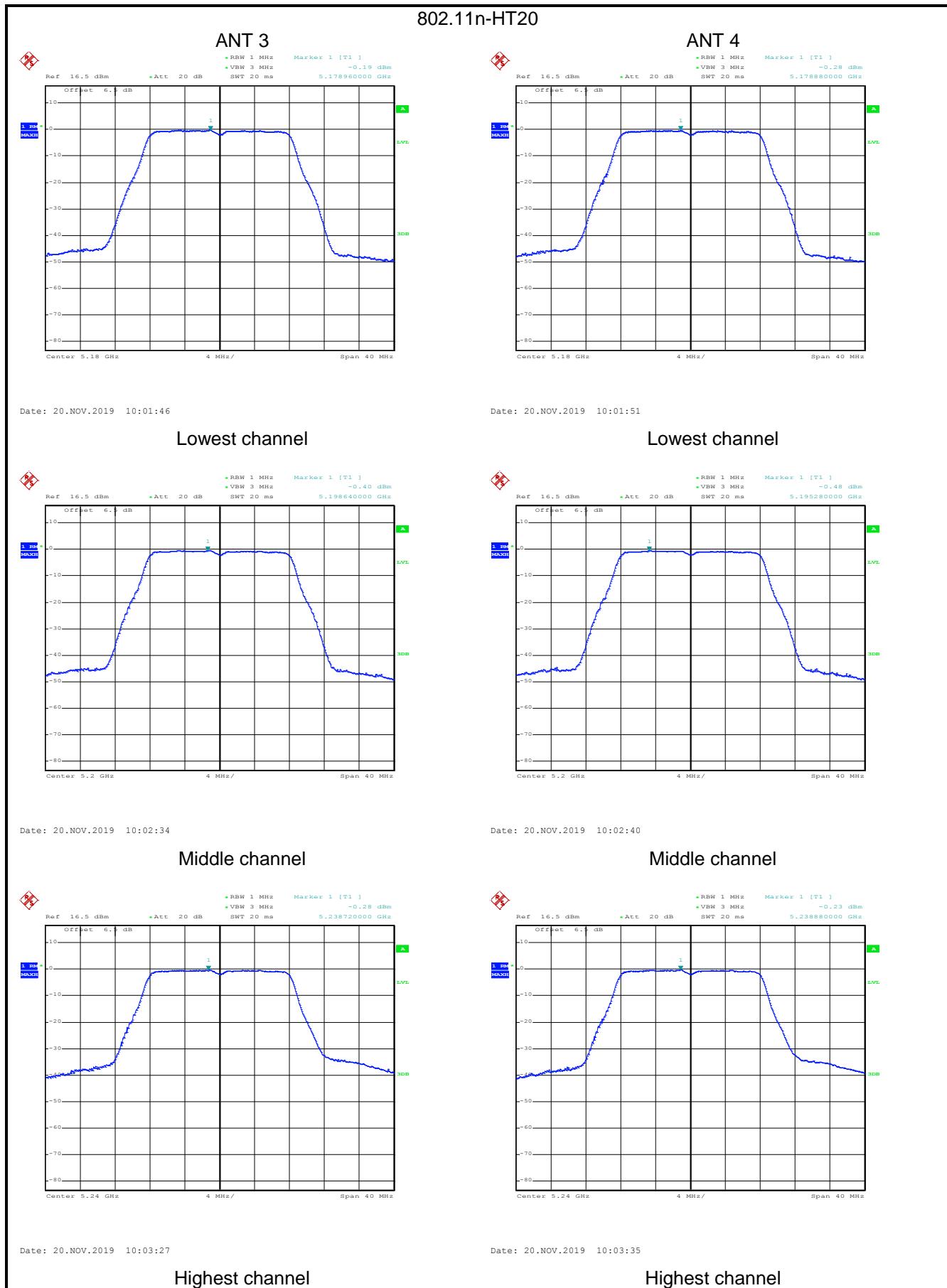


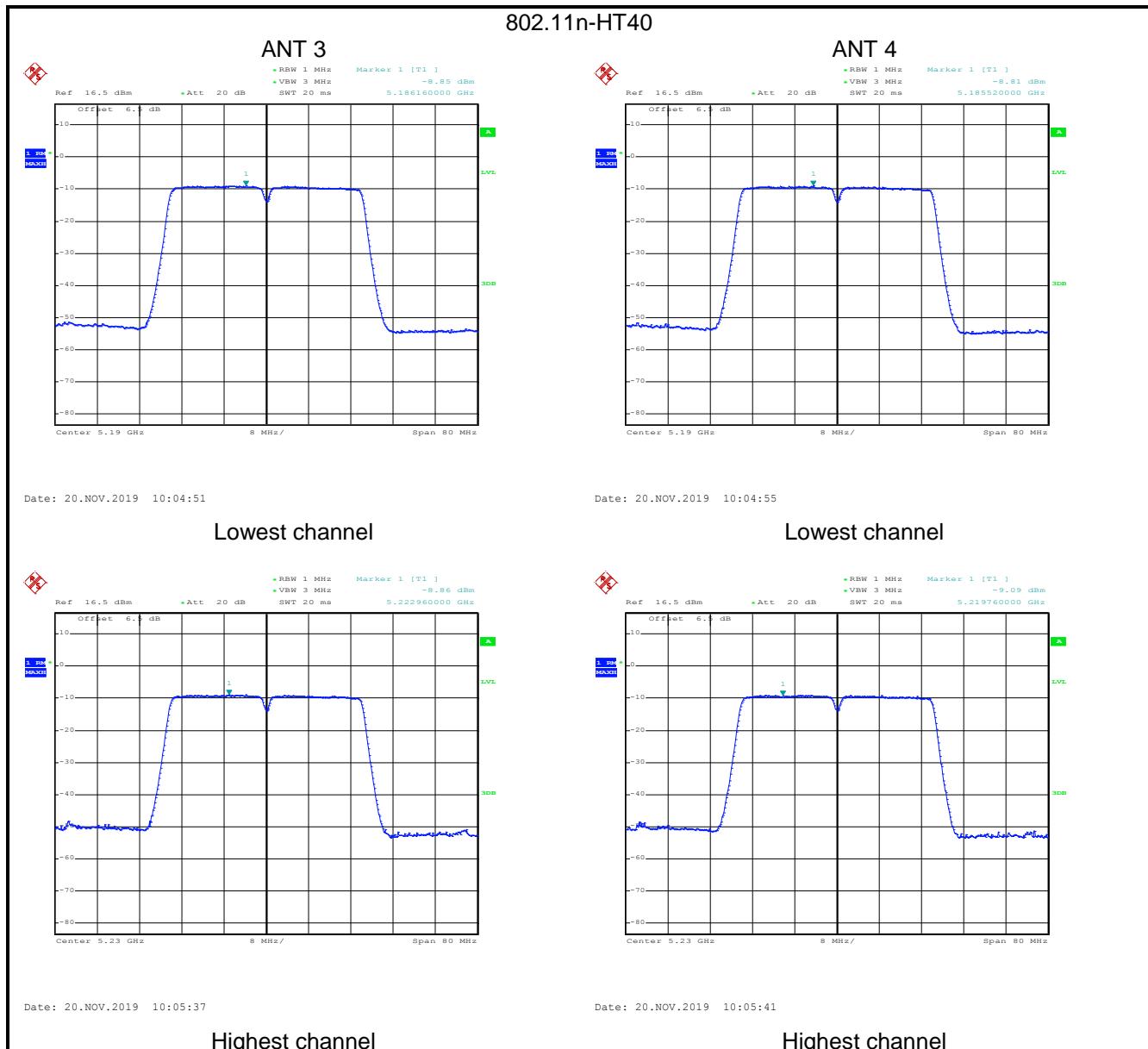


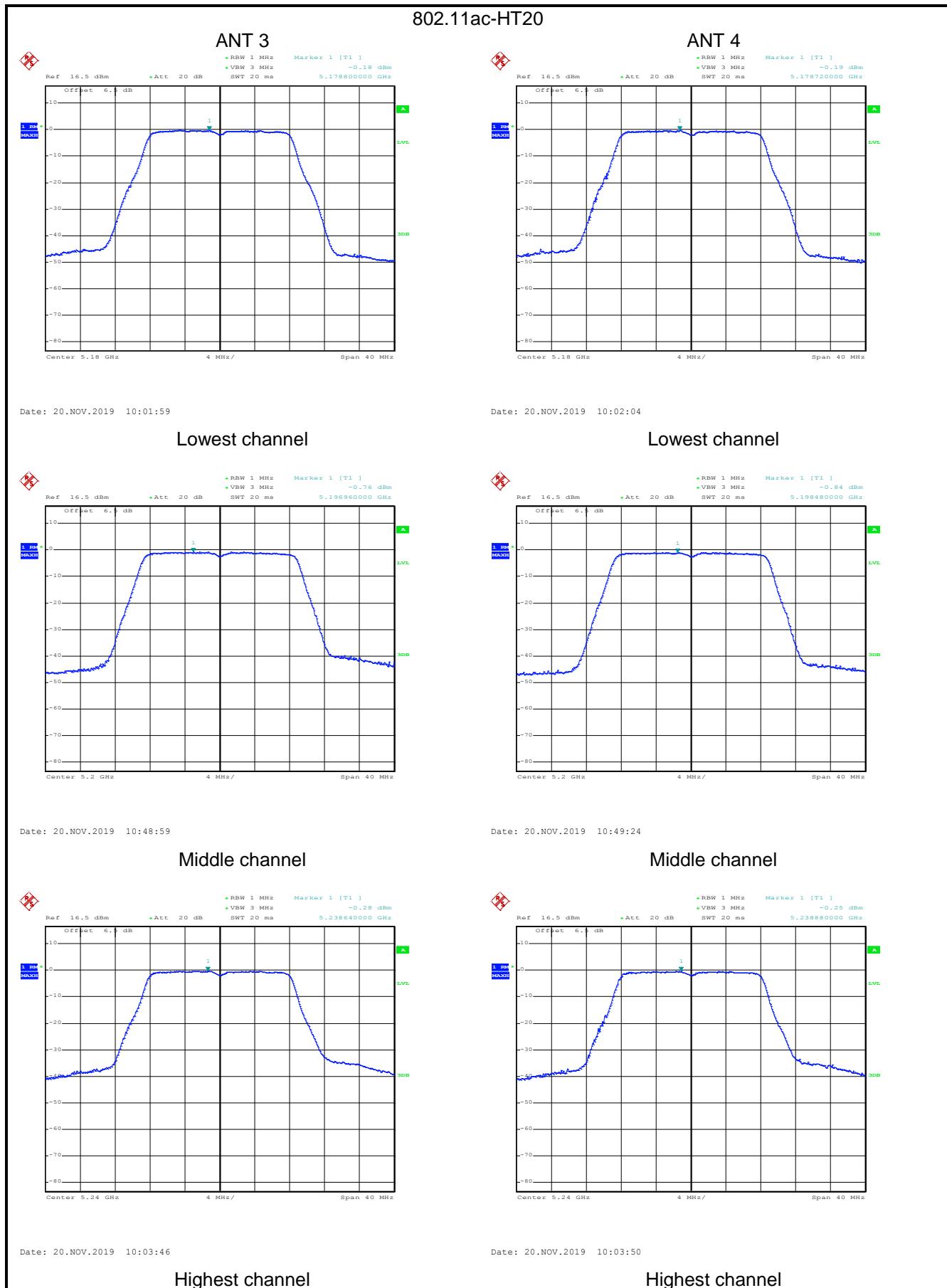
**Right module:**

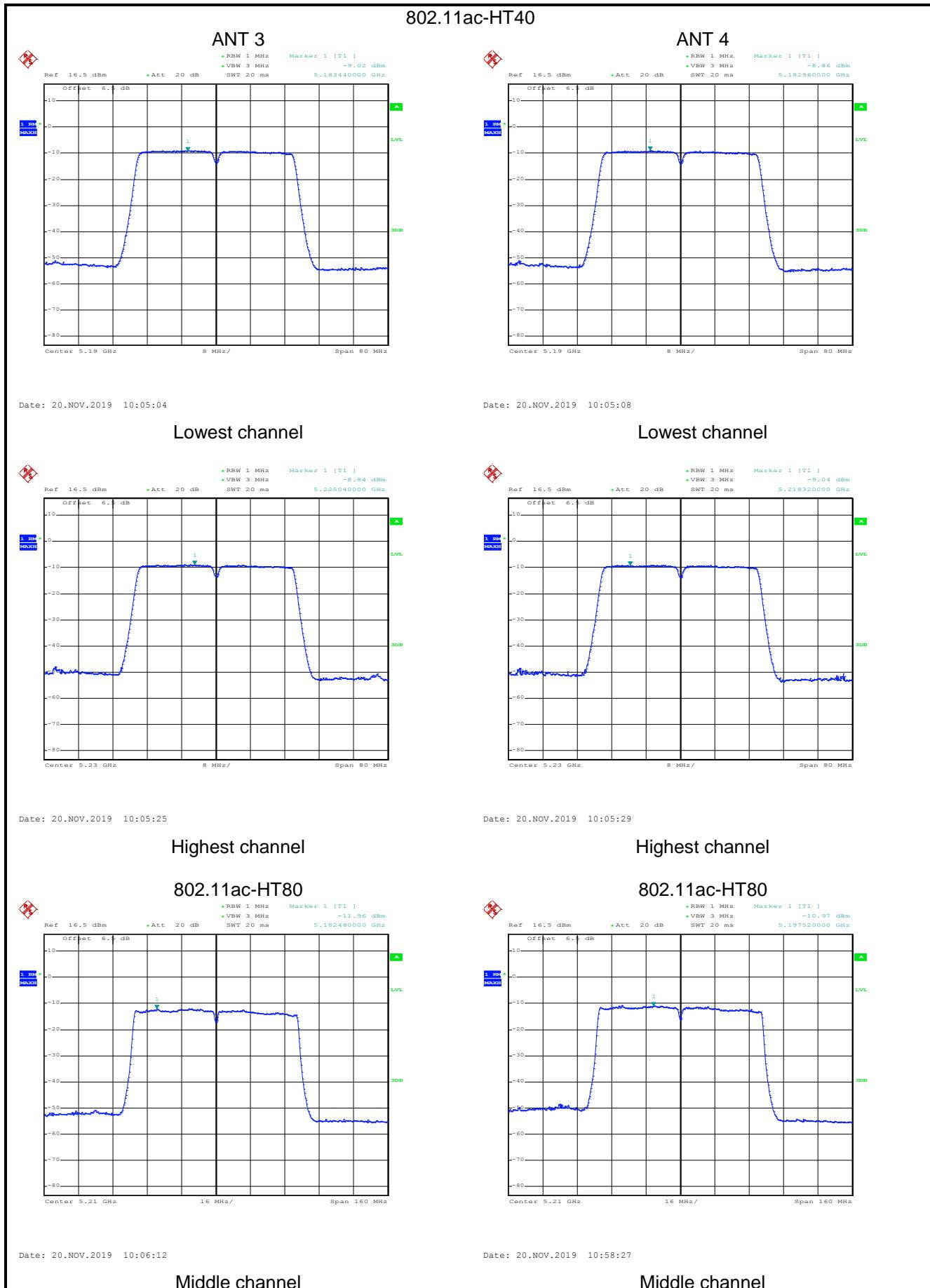
**Band 1**





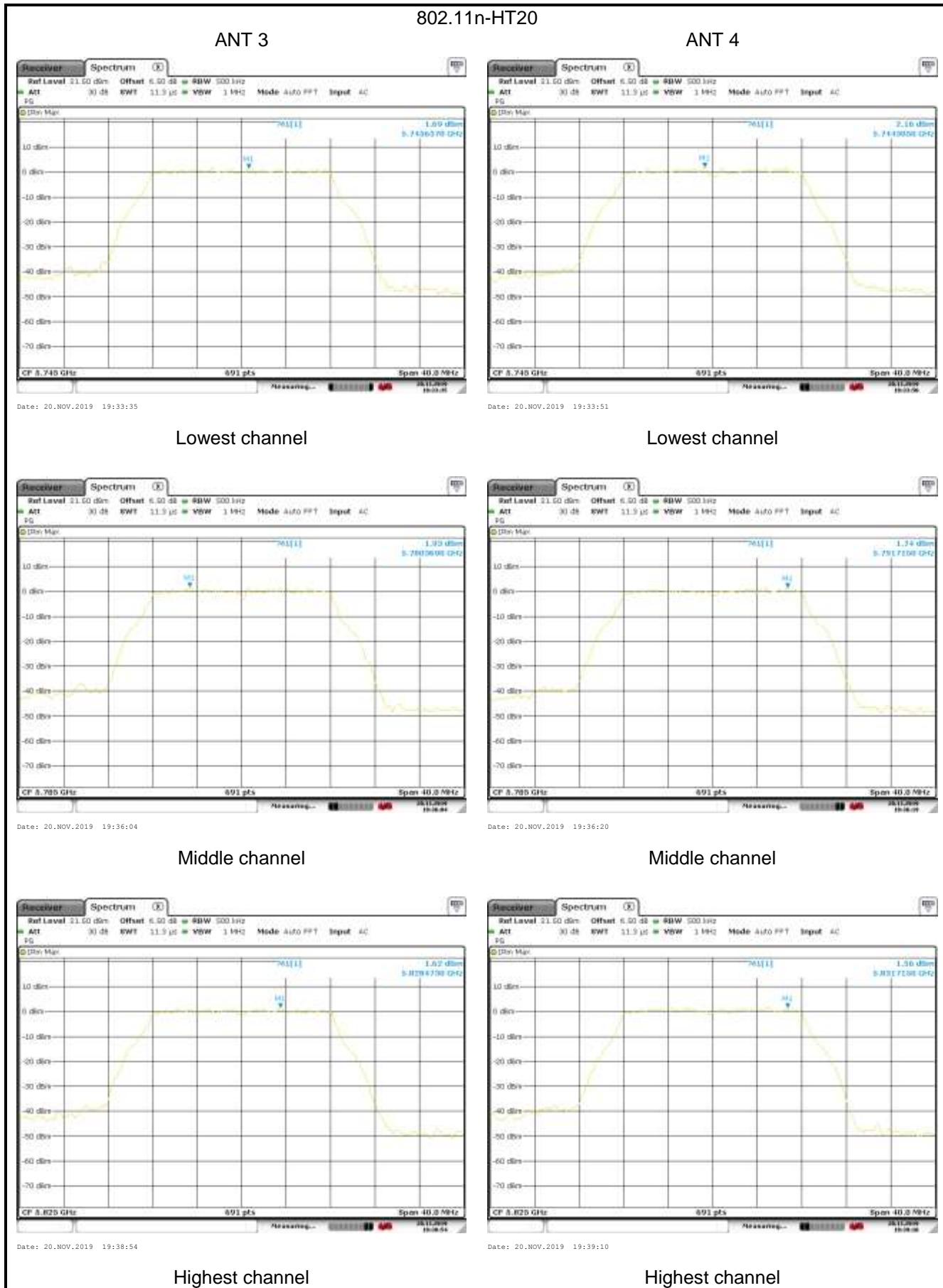


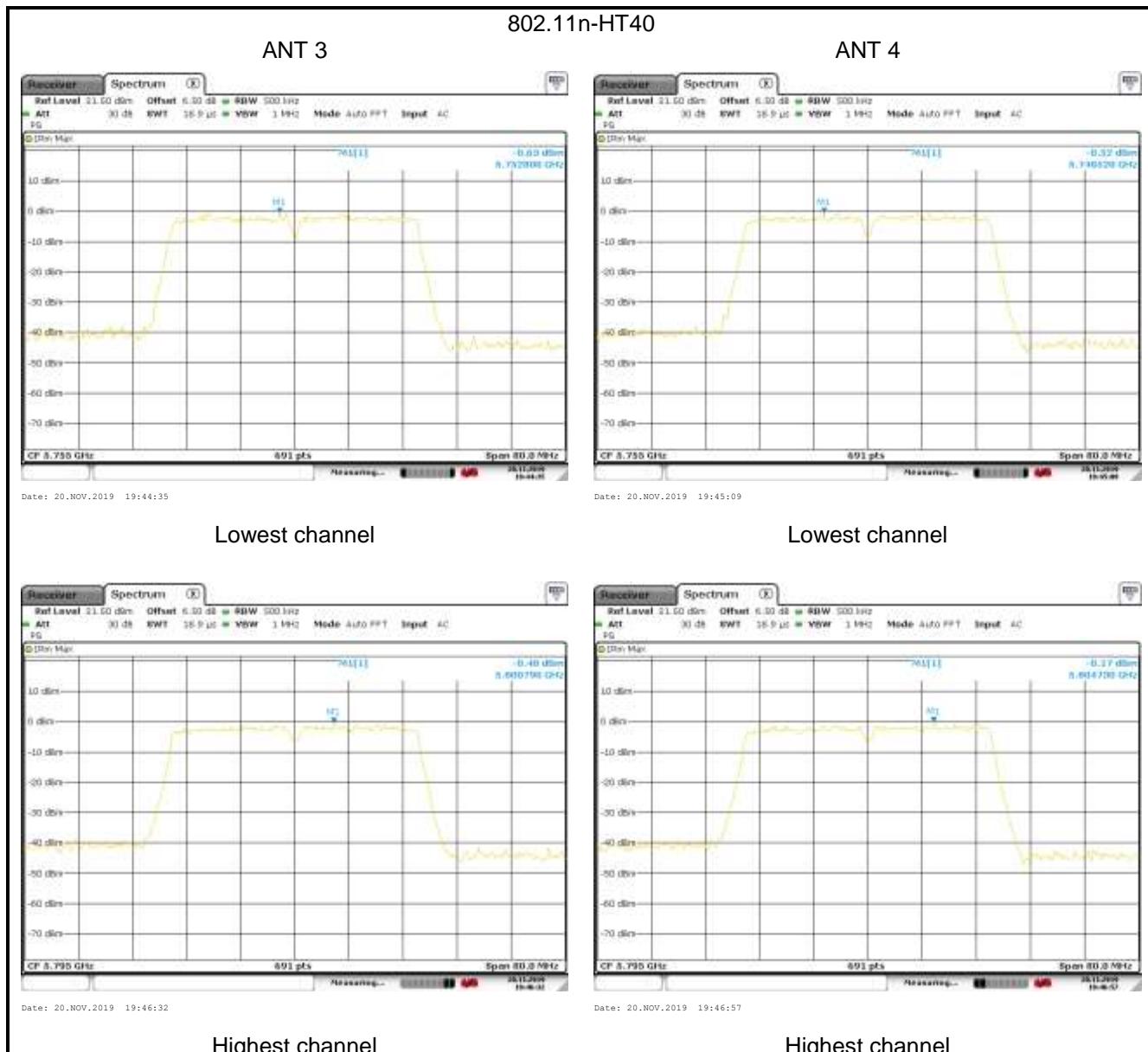


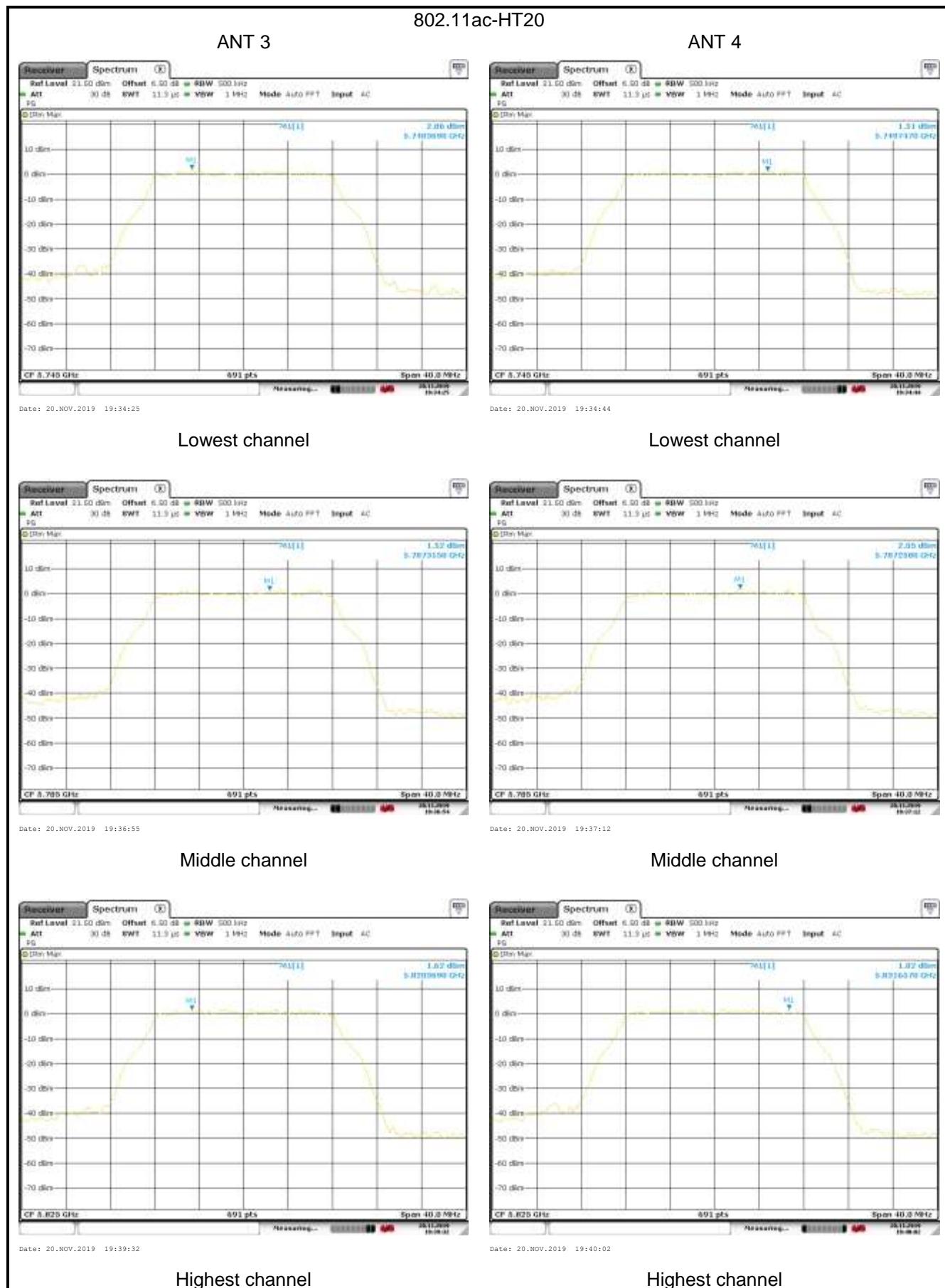


## Band 4:







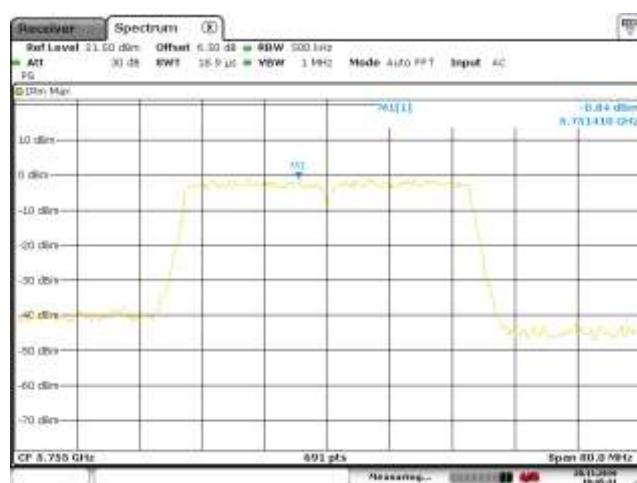


## 802.11ac-HT40

ANT 3



ANT 4



Lowest channel

Lowest channel



Highest channel

Highest channel

## 802.11ac-HT80

## 802.11ac-HT80

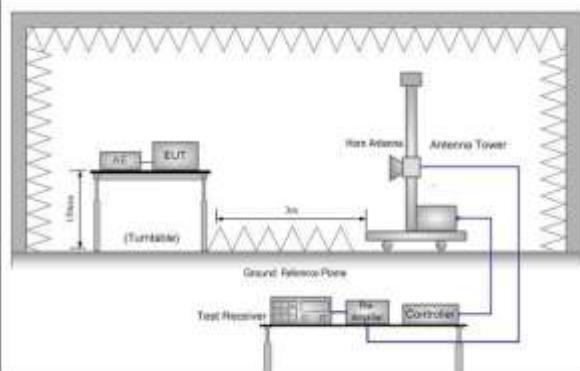


Middle channel

Middle channel

## 6.6 Band Edge

Test Requirement:	FCC Part 15 E Section 15.407 (b)			
Test Method:	ANSI C63.10:2013 , KDB 789033			
Receiver setup:	Detector	RBW	VBW	Remark
	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	RMS	1MHz	3MHz	Average Value
Limit:	Band	Limit (dB $\mu$ V/m @3m)		Remark
	Band 1	68.20	Peak Value	
		54.00	Average Value	
	Band 4	78.20	Peak Value	
		54.00	Average Value	
<p>Band 4 limit:            For transmitters operating in the 5.725-5.85 GHz band:            All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> <p>Remark:</p> <ol style="list-style-type: none"> <li>1. Band 1 limit:  <math>E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2 = 68.2 \text{ dB}\mu\text{V}/\text{m}</math>, for <math>\text{EIPR}[\text{dBm}] = -27 \text{ dBm}</math>.</li> <li>2. Band 4 limit:  <math>E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2 = 68.2 \text{ dB}\mu\text{V}/\text{m}</math>, for <math>\text{EIPR}[\text{dBm}] = -27 \text{ dBm}</math>.  <math>E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2 = 105.2 \text{ dB}\mu\text{V}/\text{m}</math>, for <math>\text{EIPR}[\text{dBm}] = 10 \text{ dBm}</math>.  <math>E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2 = 110.8 \text{ dB}\mu\text{V}/\text{m}</math>, for <math>\text{EIPR}[\text{dBm}] = 15.6 \text{ dBm}</math>.  <math>E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] + 95.2 = 122.2 \text{ dB}\mu\text{V}/\text{m}</math>, for <math>\text{EIPR}[\text{dBm}] = 27 \text{ dBm}</math>.</li> </ol>				
Test Procedure:	<ol style="list-style-type: none"> <li>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol>			

Test setup:	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

**Measurement Data (worst case):****Left module:****Band 1:**

Band 1 – 802.11a-(ANT 1)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	55.49	36.23	7.05	41.93	56.84	68.20	-11.36	Horizontal
5150.00	52.26	36.23	7.05	41.93	53.61	68.20	-14.59	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	48.53	36.23	7.05	41.93	49.88	54.00	-4.12	Horizontal
5150.00	46.39	36.23	7.05	41.93	47.74	54.00	-6.26	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	52.14	35.37	7.11	41.89	52.73	68.20	-15.47	Horizontal
5350.00	49.85	35.37	7.11	41.89	50.44	68.20	-17.76	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	45.74	35.37	7.11	41.89	46.33	54.00	-7.67	Horizontal
5350.00	46.29	35.37	7.11	41.89	46.88	54.00	-7.12	Vertical
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11a-(ANT 2)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	52.26	36.23	7.05	41.93	53.61	68.20	-14.59	Horizontal
5150.00	51.87	36.23	7.05	41.93	53.22	68.20	-14.98	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	41.74	36.23	7.05	41.93	43.09	54.00	-10.91	Horizontal
5150.00	42.26	36.23	7.05	41.93	43.61	54.00	-10.39	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	51.26	35.37	7.11	41.89	51.85	68.20	-16.35	Horizontal
5350.00	52.33	35.37	7.11	41.89	52.92	68.20	-15.28	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	41.15	35.37	7.11	41.89	41.74	54.00	-12.26	Horizontal
5350.00	43.59	35.37	7.11	41.89	44.18	54.00	-9.82	Vertical

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 1 – 802.11n(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	51.26	36.23	7.05	41.93	52.61	68.20	-15.59	Horizontal
5150.00	52.39	36.23	7.05	41.93	53.74	68.20	-14.46	Vertical
Detector: Average								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	42.15	36.23	7.05	41.93	43.50	54.00	-10.50	Horizontal
5150.00	41.78	36.23	7.05	41.93	43.13	54.00	-10.87	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	48.63	35.37	7.11	41.89	49.22	68.20	-18.98	Horizontal
5350.00	52.39	35.37	7.11	41.89	52.98	68.20	-15.22	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	42.55	35.37	7.11	41.89	43.14	54.00	-10.86	Horizontal
5350.00	41.78	35.37	7.11	41.89	42.37	54.00	-11.63	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	51.29	34.98	7.05	41.93	51.39	68.20	-16.81	Horizontal
5150.00	52.78	34.98	7.05	41.93	52.88	68.20	-15.32	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	41.36	34.98	7.05	41.93	41.46	54.00	-12.54	Horizontal
5150.00	42.56	34.98	7.05	41.93	42.66	54.00	-11.34	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	51.26	35.37	7.11	41.89	51.85	68.20	-16.35	Horizontal
5350.00	52.33	35.37	7.11	41.89	52.92	68.20	-15.28	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	42.78	35.37	7.11	41.89	43.37	54.00	-10.63	Horizontal
5350.00	42.59	35.37	7.11	41.89	43.18	54.00	-10.82	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11ac(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	51.26	36.23	7.05	41.93	52.61	68.20	-15.59	Horizontal
5150.00	52.39	36.23	7.05	41.93	53.74	68.20	-14.46	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	41.25	36.23	7.05	41.93	42.60	54.00	-11.40	Horizontal
5150.00	42.57	36.23	7.05	41.93	43.92	54.00	-10.08	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	41.63	35.37	7.11	41.89	42.22	68.20	-25.98	Horizontal
5350.00	52.48	35.37	7.11	41.89	53.07	68.20	-15.13	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	42.47	35.37	7.11	41.89	43.06	54.00	-10.94	Horizontal
5350.00	41.99	35.37	7.11	41.89	42.58	54.00	-11.42	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11ac(HT40) -(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	51.35	34.98	7.05	41.93	51.45	68.20	-16.75	Horizontal
5150.00	52.49	34.98	7.05	41.93	52.59	68.20	-15.61	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	41.25	34.98	7.05	41.93	41.35	54.00	-12.65	Horizontal
5150.00	39.78	34.98	7.05	41.93	39.88	54.00	-14.12	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	51.26	35.37	7.11	41.89	51.85	68.20	-16.35	Horizontal
5350.00	53.98	35.37	7.11	41.89	54.57	68.20	-13.63	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	42.25	35.37	7.11	41.89	42.84	54.00	-11.16	Horizontal
5350.00	41.78	35.37	7.11	41.89	42.37	54.00	-11.63	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11ac(HT80) -(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	51.26	36.23	7.05	41.93	52.61	68.20	-15.59	Horizontal
5150.00	52.33	36.23	7.05	41.93	53.68	68.20	-14.52	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	41.52	36.23	7.05	41.93	42.87	54.00	-11.13	Horizontal
5150.00	42.69	36.23	7.05	41.93	44.04	54.00	-9.96	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	48.56	35.37	7.11	41.89	49.15	68.20	-19.05	Horizontal
5350.00	51.26	35.37	7.11	41.89	51.85	68.20	-16.35	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	42.52	35.37	7.11	41.89	43.11	54.00	-10.89	Horizontal
5350.00	43.87	35.37	7.11	41.89	44.46	54.00	-9.54	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

**Band 4:**

Band 4 – 802.11a-(ANT1)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	48.52	32.68	7.45	41.85	46.80	68.20	-21.40	Horizontal
5700.00	51.26	32.77	7.60	41.90	49.73	105.20	-55.47	Horizontal
5720.00	52.36	32.81	7.64	41.92	50.89	110.80	-59.91	Horizontal
5725.00	54.26	32.81	7.69	41.94	52.82	122.20	-69.38	Horizontal
5650.00	49.53	32.68	7.45	41.85	47.81	68.20	-20.39	Vertical
5700.00	51.22	32.77	7.60	41.90	49.69	105.20	-55.51	Vertical
5720.00	55.48	32.81	7.64	41.92	54.01	110.80	-56.79	Vertical
5725.00	57.96	32.81	7.69	41.94	56.52	122.20	-65.68	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	48.53	33.04	7.45	41.85	47.17	122.20	-75.03	Horizontal
5855.00	51.23	33.05	7.60	41.90	49.98	110.80	-60.82	Horizontal
5875.00	54.78	33.08	7.64	41.92	53.58	105.20	-51.62	Horizontal
5925.00	48.26	33.17	7.69	41.94	47.18	68.20	-21.02	Horizontal
5850.00	52.32	33.04	7.45	41.85	50.96	122.20	-71.24	Vertical
5855.00	51.44	33.05	7.60	41.90	50.19	110.80	-60.61	Vertical
5875.00	48.26	33.08	7.64	41.92	47.06	105.20	-58.14	Vertical
5925.00	47.69	33.17	7.69	41.94	46.61	68.20	-21.59	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11a-(ANT2)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	49.56	32.68	7.45	41.85	47.84	68.20	-20.36	Horizontal
5700.00	46.35	32.77	7.60	41.90	44.82	105.20	-60.38	Horizontal
5720.00	52.87	32.81	7.64	41.92	51.40	110.80	-59.40	Horizontal
5725.00	54.87	32.81	7.69	41.94	53.43	122.20	-68.77	Horizontal
5650.00	49.89	32.68	7.45	41.85	48.17	68.20	-20.03	Vertical
5700.00	48.16	32.77	7.60	41.90	46.63	105.20	-58.57	Vertical
5720.00	52.26	32.81	7.64	41.92	50.79	110.80	-60.01	Vertical
5725.00	51.43	32.81	7.69	41.94	49.99	122.20	-72.21	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	51.26	33.04	7.45	41.85	49.90	122.20	-72.30	Horizontal
5855.00	49.86	33.05	7.60	41.90	48.61	110.80	-62.19	Horizontal
5875.00	47.88	33.08	7.64	41.92	46.68	105.20	-58.52	Horizontal
5925.00	47.56	33.17	7.69	41.94	46.48	68.20	-21.72	Horizontal
5850.00	48.26	33.04	7.45	41.85	46.90	122.20	-75.30	Vertical
5855.00	47.25	33.05	7.60	41.90	46.00	110.80	-64.80	Vertical
5875.00	49.63	33.08	7.64	41.92	48.43	105.20	-56.77	Vertical
5925.00	49.17	33.17	7.69	41.94	48.09	68.20	-20.11	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11n(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	49.63	32.68	7.45	41.85	47.91	68.20	-20.29	Horizontal
5700.00	48.55	32.77	7.60	41.90	47.02	105.20	-58.18	Horizontal
5720.00	51.26	32.81	7.64	41.92	49.79	110.80	-61.01	Horizontal
5725.00	53.47	32.81	7.69	41.94	52.03	122.20	-70.17	Horizontal
5650.00	48.98	32.68	7.45	41.85	47.26	68.20	-20.94	Vertical
5700.00	49.36	32.77	7.60	41.90	47.83	105.20	-57.37	Vertical
5720.00	55.42	32.81	7.64	41.92	53.95	110.80	-56.85	Vertical
5725.00	53.78	32.81	7.69	41.94	52.34	122.20	-69.86	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	53.26	33.04	7.45	41.85	51.90	122.20	-70.30	Horizontal
5855.00	54.15	33.05	7.60	41.90	52.90	110.80	-57.90	Horizontal
5875.00	55.26	33.08	7.64	41.92	54.06	105.20	-51.14	Horizontal
5925.00	52.45	33.17	7.69	41.94	51.37	68.20	-16.83	Horizontal
5850.00	49.85	33.04	7.45	41.85	48.49	122.20	-73.71	Vertical
5855.00	48.77	33.05	7.60	41.90	47.52	110.80	-63.28	Vertical
5875.00	48.26	33.08	7.64	41.92	47.06	105.20	-58.14	Vertical
5925.00	51.29	33.17	7.69	41.94	50.21	68.20	-17.99	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11n(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	53.26	32.68	7.45	41.85	51.54	68.20	-16.66	Horizontal
5700.00	51.45	32.77	7.60	41.90	49.92	105.20	-55.28	Horizontal
5720.00	52.26	32.81	7.64	41.92	50.79	110.80	-60.01	Horizontal
5725.00	53.98	32.81	7.69	41.94	52.54	122.20	-69.66	Horizontal
5650.00	52.44	32.68	7.45	41.85	50.72	68.20	-17.48	Vertical
5700.00	53.69	32.77	7.60	41.90	52.16	105.20	-53.04	Vertical
5720.00	53.89	32.81	7.64	41.92	52.42	110.80	-58.38	Vertical
5725.00	51.47	32.81	7.69	41.94	50.03	122.20	-72.17	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	49.36	33.04	7.45	41.85	48.00	122.20	-74.20	Horizontal
5855.00	48.52	33.05	7.60	41.90	47.27	110.80	-63.53	Horizontal
5875.00	47.15	33.08	7.64	41.92	45.95	105.20	-59.25	Horizontal
5925.00	46.33	33.17	7.69	41.94	45.25	68.20	-22.95	Horizontal
5850.00	48.57	33.04	7.45	41.85	47.21	122.20	-74.99	Vertical
5855.00	49.32	33.05	7.60	41.90	48.07	110.80	-62.73	Vertical
5875.00	46.85	33.08	7.64	41.92	45.65	105.20	-59.55	Vertical
5925.00	45.59	33.17	7.69	41.94	44.51	68.20	-23.69	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

<b>Band 4 – 802.11ac(HT20)-(MIMO)</b>								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	49.85	32.68	7.45	41.85	48.13	68.20	-20.07	Horizontal
5700.00	48.62	32.77	7.60	41.90	47.09	105.20	-58.11	Horizontal
5720.00	51.26	32.81	7.64	41.92	49.79	110.80	-61.01	Horizontal
5725.00	52.48	32.81	7.69	41.94	51.04	122.20	-71.16	Horizontal
5650.00	48.77	32.68	7.45	41.85	47.05	68.20	-21.15	Vertical
5700.00	46.63	32.77	7.60	41.90	45.10	105.20	-60.10	Vertical
5720.00	51.22	32.81	7.64	41.92	49.75	110.80	-61.05	Vertical
5725.00	53.29	32.81	7.69	41.94	51.85	122.20	-70.35	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	48.52	33.04	7.45	41.85	47.16	122.20	-75.04	Horizontal
5855.00	49.36	33.05	7.60	41.90	48.11	110.80	-62.69	Horizontal
5875.00	48.52	33.08	7.64	41.92	47.32	105.20	-57.88	Horizontal
5925.00	48.71	33.17	7.69	41.94	47.63	68.20	-20.57	Horizontal
5850.00	53.36	33.04	7.45	41.85	52.00	122.20	-70.20	Vertical
5855.00	48.22	33.05	7.60	41.90	46.97	110.80	-63.83	Vertical
5875.00	48.72	33.08	7.64	41.92	47.52	105.20	-57.68	Vertical
5925.00	47.48	33.17	7.69	41.94	46.40	68.20	-21.80	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11ac(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	48.63	32.68	7.45	41.85	46.91	68.20	-21.29	Horizontal
5700.00	46.55	32.77	7.60	41.90	45.02	105.20	-60.18	Horizontal
5720.00	51.24	32.81	7.64	41.92	49.77	110.80	-61.03	Horizontal
5725.00	52.39	32.81	7.69	41.94	50.95	122.20	-71.25	Horizontal
5650.00	48.75	32.68	7.45	41.85	47.03	68.20	-21.17	Vertical
5700.00	52.36	32.77	7.60	41.90	50.83	105.20	-54.37	Vertical
5720.00	51.74	32.81	7.64	41.92	50.27	110.80	-60.53	Vertical
5725.00	53.29	32.81	7.69	41.94	51.85	122.20	-70.35	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	52.22	33.04	7.45	41.85	50.86	122.20	-71.34	Horizontal
5855.00	49.53	33.05	7.60	41.90	48.28	110.80	-62.52	Horizontal
5875.00	48.75	33.08	7.64	41.92	47.55	105.20	-57.65	Horizontal
5925.00	46.26	33.17	7.69	41.94	45.18	68.20	-23.02	Horizontal
5850.00	52.15	33.04	7.45	41.85	50.79	122.20	-71.41	Vertical
5855.00	49.36	33.05	7.60	41.90	48.11	110.80	-62.69	Vertical
5875.00	45.15	33.08	7.64	41.92	43.95	105.20	-61.25	Vertical
5925.00	49.78	33.17	7.69	41.94	48.70	68.20	-19.50	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

<b>Band 4 – 802.11ac(HT80)-(MIMO)</b>								
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	53.23	32.68	7.45	41.85	51.51	68.20	-16.69	Horizontal
5700.00	52.95	32.77	7.60	41.90	51.42	105.20	-53.78	Horizontal
5720.00	55.40	32.81	7.64	41.92	53.93	110.80	-56.87	Horizontal
5725.00	56.36	32.81	7.69	41.94	54.92	122.20	-67.28	Horizontal
5650.00	49.52	32.68	7.45	41.85	47.80	68.20	-20.40	Vertical
5700.00	51.24	32.77	7.60	41.90	49.71	105.20	-55.49	Vertical
5720.00	58.87	32.81	7.64	41.92	57.40	110.80	-53.40	Vertical
5725.00	61.36	32.81	7.69	41.94	59.92	122.20	-62.28	Vertical
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	50.26	33.04	7.45	41.85	48.90	122.20	-73.30	Horizontal
5855.00	52.36	33.05	7.60	41.90	51.11	110.80	-59.69	Horizontal
5875.00	53.45	33.08	7.64	41.92	52.25	105.20	-52.95	Horizontal
5925.00	51.26	33.17	7.69	41.94	50.18	68.20	-18.02	Horizontal
5850.00	48.56	33.04	7.45	41.85	47.20	122.20	-75.00	Vertical
5855.00	52.39	33.05	7.60	41.90	51.14	110.80	-59.66	Vertical
5875.00	56.98	33.08	7.64	41.92	55.78	105.20	-49.42	Vertical
5925.00	51.78	33.17	7.69	41.94	50.70	68.20	-17.50	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

**Right module:****Band 1:**

Band 1 – 802.11a-(ANT 3)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	53.26	36.23	7.05	41.93	54.61	68.20	-13.59	Horizontal
5150.00	52.44	36.23	7.05	41.93	53.79	68.20	-14.41	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	43.26	36.23	7.05	41.93	44.61	54.00	-9.39	Horizontal
5150.00	41.59	36.23	7.05	41.93	42.94	54.00	-11.06	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	49.53	35.37	7.11	41.89	50.12	68.20	-18.08	Horizontal
5350.00	48.59	35.37	7.11	41.89	49.18	68.20	-19.02	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	43.26	35.37	7.11	41.89	43.85	54.00	-10.15	Horizontal
5350.00	42.98	35.37	7.11	41.89	43.57	54.00	-10.43	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 1 – 802.11a-(ANT 4)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	51.25	36.23	7.05	41.93	52.60	68.20	-15.60	Horizontal
5150.00	52.49	36.23	7.05	41.93	53.84	68.20	-14.36	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	41.26	36.23	7.05	41.93	42.61	54.00	-11.39	Horizontal
5150.00	42.39	36.23	7.05	41.93	43.74	54.00	-10.26	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	49.85	35.37	7.11	41.89	50.44	68.20	-17.76	Horizontal
5350.00	50.74	35.37	7.11	41.89	51.33	68.20	-16.87	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	42.26	35.37	7.11	41.89	42.85	54.00	-11.15	Horizontal
5350.00	41.33	35.37	7.11	41.89	41.92	54.00	-12.08	Vertical

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 1 – 802.11n(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	52.25	36.23	7.05	41.93	53.60	68.20	-14.60	Horizontal
5150.00	51.49	36.23	7.05	41.93	52.84	68.20	-15.36	Vertical
Detector: Average								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	43.26	36.23	7.05	41.93	44.61	54.00	-9.39	Horizontal
5150.00	42.58	36.23	7.05	41.93	43.93	54.00	-10.07	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	50.16	35.37	7.11	41.89	50.75	68.20	-17.45	Horizontal
5350.00	51.87	35.37	7.11	41.89	52.46	68.20	-15.74	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	41.16	35.37	7.11	41.89	41.75	54.00	-12.25	Horizontal
5350.00	42.98	35.37	7.11	41.89	43.57	54.00	-10.43	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	53.26	34.98	7.05	41.93	53.36	68.20	-14.84	Horizontal
5150.00	52.49	34.98	7.05	41.93	52.59	68.20	-15.61	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	42.52	34.98	7.05	41.93	42.62	54.00	-11.38	Horizontal
5150.00	41.35	34.98	7.05	41.93	41.45	54.00	-12.55	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	49.85	35.37	7.11	41.89	50.44	68.20	-17.76	Horizontal
5350.00	52.26	35.37	7.11	41.89	52.85	68.20	-15.35	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	43.26	35.37	7.11	41.89	43.85	54.00	-10.15	Horizontal
5350.00	42.72	35.37	7.11	41.89	43.31	54.00	-10.69	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11ac(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	53.26	36.23	7.05	41.93	54.61	68.20	-13.59	Horizontal
5150.00	49.86	36.23	7.05	41.93	51.21	68.20	-16.99	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	42.26	36.23	7.05	41.93	43.61	54.00	-10.39	Horizontal
5150.00	39.89	36.23	7.05	41.93	41.24	54.00	-12.76	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	50.25	35.37	7.11	41.89	50.84	68.20	-17.36	Horizontal
5350.00	49.26	35.37	7.11	41.89	49.85	68.20	-18.35	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	41.15	35.37	7.11	41.89	41.74	54.00	-12.26	Horizontal
5350.00	42.98	35.37	7.11	41.89	43.57	54.00	-10.43	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11ac(HT40) -(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	52.26	34.98	7.05	41.93	52.36	68.20	-15.84	Horizontal
5150.00	51.39	34.98	7.05	41.93	51.49	68.20	-16.71	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	42.26	34.98	7.05	41.93	42.36	54.00	-11.64	Horizontal
5150.00	43.59	34.98	7.05	41.93	43.69	54.00	-10.31	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	52.16	35.37	7.11	41.89	52.75	68.20	-15.45	Horizontal
5350.00	51.47	35.37	7.11	41.89	52.06	68.20	-16.14	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	39.63	35.37	7.11	41.89	40.22	54.00	-13.78	Horizontal
5350.00	38.56	35.37	7.11	41.89	39.15	54.00	-14.85	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11ac(HT80) -(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	51.26	36.23	7.05	41.93	52.61	68.20	-15.59	Horizontal
5150.00	52.39	36.23	7.05	41.93	53.74	68.20	-14.46	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	41.15	36.23	7.05	41.93	42.50	54.00	-11.50	Horizontal
5150.00	39.87	36.23	7.05	41.93	41.22	54.00	-12.78	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	49.26	35.37	7.11	41.89	49.85	68.20	-18.35	Horizontal
5350.00	48.75	35.37	7.11	41.89	49.34	68.20	-18.86	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	41.26	35.37	7.11	41.89	41.85	54.00	-12.15	Horizontal
5350.00	42.59	35.37	7.11	41.89	43.18	54.00	-10.82	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

**Band 4:**

Band 4 – 802.11a-(ANT 3)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	51.26	32.68	7.45	41.85	49.54	68.20	-18.66	Horizontal
5700.00	52.36	32.77	7.60	41.90	50.83	105.20	-54.37	Horizontal
5720.00	54.15	32.81	7.64	41.92	52.68	110.80	-58.12	Horizontal
5725.00	55.78	32.81	7.69	41.94	54.34	122.20	-67.86	Horizontal
5650.00	49.36	32.68	7.45	41.85	47.64	68.20	-20.56	Vertical
5700.00	52.24	32.77	7.60	41.90	50.71	105.20	-54.49	Vertical
5720.00	55.70	32.81	7.64	41.92	54.23	110.80	-56.57	Vertical
5725.00	58.32	32.81	7.69	41.94	56.88	122.20	-65.32	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	49.63	33.04	7.45	41.85	48.27	122.20	-73.93	Horizontal
5855.00	52.26	33.05	7.60	41.90	51.01	110.80	-59.79	Horizontal
5875.00	52.26	33.08	7.64	41.92	51.06	105.20	-54.14	Horizontal
5925.00	48.96	33.17	7.69	41.94	47.88	68.20	-20.32	Horizontal
5850.00	52.36	33.04	7.45	41.85	51.00	122.20	-71.20	Vertical
5855.00	51.47	33.05	7.60	41.90	50.22	110.80	-60.58	Vertical
5875.00	48.53	33.08	7.64	41.92	47.33	105.20	-57.87	Vertical
5925.00	47.98	33.17	7.69	41.94	46.90	68.20	-21.30	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11a-(ANT 4)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	49.36	32.68	7.45	41.85	47.64	68.20	-20.56	Horizontal
5700.00	48.77	32.77	7.60	41.90	47.24	105.20	-57.96	Horizontal
5720.00	53.26	32.81	7.64	41.92	51.79	110.80	-59.01	Horizontal
5725.00	52.69	32.81	7.69	41.94	51.25	122.20	-70.95	Horizontal
5650.00	48.52	32.68	7.45	41.85	46.80	68.20	-21.40	Vertical
5700.00	48.75	32.77	7.60	41.90	47.22	105.20	-57.98	Vertical
5720.00	53.26	32.81	7.64	41.92	51.79	110.80	-59.01	Vertical
5725.00	53.98	32.81	7.69	41.94	52.54	122.20	-69.66	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	53.15	33.04	7.45	41.85	51.79	122.20	-70.41	Horizontal
5855.00	51.25	33.05	7.60	41.90	50.00	110.80	-60.80	Horizontal
5875.00	48.79	33.08	7.64	41.92	47.59	105.20	-57.61	Horizontal
5925.00	49.36	33.17	7.69	41.94	48.28	68.20	-19.92	Horizontal
5850.00	51.26	33.04	7.45	41.85	49.90	122.20	-72.30	Vertical
5855.00	50.29	33.05	7.60	41.90	49.04	110.80	-61.76	Vertical
5875.00	51.98	33.08	7.64	41.92	50.78	105.20	-54.42	Vertical
5925.00	50.47	33.17	7.69	41.94	49.39	68.20	-18.81	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11n(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	49.26	32.68	7.45	41.85	47.54	68.20	-20.66	Horizontal
5700.00	48.52	32.77	7.60	41.90	46.99	105.20	-58.21	Horizontal
5720.00	53.26	32.81	7.64	41.92	51.79	110.80	-59.01	Horizontal
5725.00	55.47	32.81	7.69	41.94	54.03	122.20	-68.17	Horizontal
5650.00	50.13	32.68	7.45	41.85	48.41	68.20	-19.79	Vertical
5700.00	50.36	32.77	7.60	41.90	48.83	105.20	-56.37	Vertical
5720.00	55.89	32.81	7.64	41.92	54.42	110.80	-56.38	Vertical
5725.00	55.17	32.81	7.69	41.94	53.73	122.20	-68.47	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	53.26	33.04	7.45	41.85	51.90	122.20	-70.30	Horizontal
5855.00	54.25	33.05	7.60	41.90	53.00	110.80	-57.80	Horizontal
5875.00	53.29	33.08	7.64	41.92	52.09	105.20	-53.11	Horizontal
5925.00	56.63	33.17	7.69	41.94	55.55	68.20	-12.65	Horizontal
5850.00	50.15	33.04	7.45	41.85	48.79	122.20	-73.41	Vertical
5855.00	49.87	33.05	7.60	41.90	48.62	110.80	-62.18	Vertical
5875.00	52.03	33.08	7.64	41.92	50.83	105.20	-54.37	Vertical
5925.00	51.74	33.17	7.69	41.94	50.66	68.20	-17.54	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11n(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	52.46	32.68	7.45	41.85	50.74	68.20	-17.46	Horizontal
5700.00	54.36	32.77	7.60	41.90	52.83	105.20	-52.37	Horizontal
5720.00	52.63	32.81	7.64	41.92	51.16	110.80	-59.64	Horizontal
5725.00	53.24	32.81	7.69	41.94	51.80	122.20	-70.40	Horizontal
5650.00	54.18	32.68	7.45	41.85	52.46	68.20	-15.74	Vertical
5700.00	52.42	32.77	7.60	41.90	50.89	105.20	-54.31	Vertical
5720.00	53.29	32.81	7.64	41.92	51.82	110.80	-58.98	Vertical
5725.00	52.44	32.81	7.69	41.94	51.00	122.20	-71.20	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	48.52	33.04	7.45	41.85	47.16	122.20	-75.04	Horizontal
5855.00	51.47	33.05	7.60	41.90	50.22	110.80	-60.58	Horizontal
5875.00	48.25	33.08	7.64	41.92	47.05	105.20	-58.15	Horizontal
5925.00	47.16	33.17	7.69	41.94	46.08	68.20	-22.12	Horizontal
5850.00	52.26	33.04	7.45	41.85	50.90	122.20	-71.30	Vertical
5855.00	48.25	33.05	7.60	41.90	47.00	110.80	-63.80	Vertical
5875.00	47.15	33.08	7.64	41.92	45.95	105.20	-59.25	Vertical
5925.00	46.39	33.17	7.69	41.94	45.31	68.20	-22.89	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

<b>Band 4 – 802.11ac(HT20)-(MIMO)</b>								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	51.48	32.68	7.45	41.85	49.76	68.20	-18.44	Horizontal
5700.00	49.86	32.77	7.60	41.90	48.33	105.20	-56.87	Horizontal
5720.00	53.26	32.81	7.64	41.92	51.79	110.80	-59.01	Horizontal
5725.00	54.78	32.81	7.69	41.94	53.34	122.20	-68.86	Horizontal
5650.00	49.32	32.68	7.45	41.85	47.60	68.20	-20.60	Vertical
5700.00	48.59	32.77	7.60	41.90	47.06	105.20	-58.14	Vertical
5720.00	53.26	32.81	7.64	41.92	51.79	110.80	-59.01	Vertical
5725.00	52.19	32.81	7.69	41.94	50.75	122.20	-71.45	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	51.48	33.04	7.45	41.85	50.12	122.20	-72.08	Horizontal
5855.00	50.26	33.05	7.60	41.90	49.01	110.80	-61.79	Horizontal
5875.00	51.22	33.08	7.64	41.92	50.02	105.20	-55.18	Horizontal
5925.00	48.78	33.17	7.69	41.94	47.70	68.20	-20.50	Horizontal
5850.00	52.63	33.04	7.45	41.85	51.27	122.20	-70.93	Vertical
5855.00	49.86	33.05	7.60	41.90	48.61	110.80	-62.19	Vertical
5875.00	51.74	33.08	7.64	41.92	50.54	105.20	-54.66	Vertical
5925.00	50.27	33.17	7.69	41.94	49.19	68.20	-19.01	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11ac(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	50.15	32.68	7.45	41.85	48.43	68.20	-19.77	Horizontal
5700.00	46.26	32.77	7.60	41.90	44.73	105.20	-60.47	Horizontal
5720.00	52.78	32.81	7.64	41.92	51.31	110.80	-59.49	Horizontal
5725.00	53.16	32.81	7.69	41.94	51.72	122.20	-70.48	Horizontal
5650.00	51.29	32.68	7.45	41.85	49.57	68.20	-18.63	Vertical
5700.00	51.78	32.77	7.60	41.90	50.25	105.20	-54.95	Vertical
5720.00	52.98	32.81	7.64	41.92	51.51	110.80	-59.29	Vertical
5725.00	53.45	32.81	7.69	41.94	52.01	122.20	-70.19	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	52.16	33.04	7.45	41.85	50.80	122.20	-71.40	Horizontal
5855.00	49.85	33.05	7.60	41.90	48.60	110.80	-62.20	Horizontal
5875.00	48.75	33.08	7.64	41.92	47.55	105.20	-57.65	Horizontal
5925.00	46.36	33.17	7.69	41.94	45.28	68.20	-22.92	Horizontal
5850.00	51.24	33.04	7.45	41.85	49.88	122.20	-72.32	Vertical
5855.00	49.53	33.05	7.60	41.90	48.28	110.80	-62.52	Vertical
5875.00	49.87	33.08	7.64	41.92	48.67	105.20	-56.53	Vertical
5925.00	50.13	33.17	7.69	41.94	49.05	68.20	-19.15	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

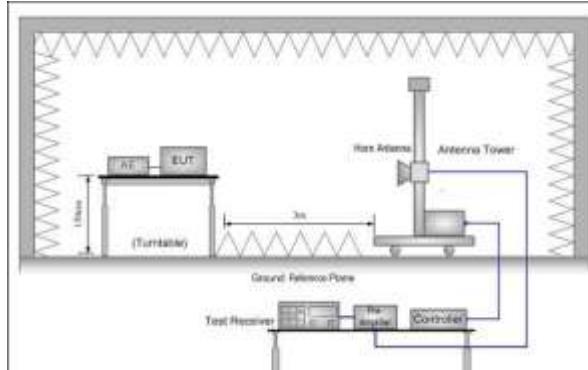
<b>Band 4 – 802.11ac(HT80)-(MIMO)</b>								
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	51.23	32.68	7.45	41.85	49.51	68.20	-18.69	Horizontal
5700.00	52.36	32.77	7.60	41.90	50.83	105.20	-54.37	Horizontal
5720.00	56.48	32.81	7.64	41.92	55.01	110.80	-55.79	Horizontal
5725.00	59.63	32.81	7.69	41.94	58.19	122.20	-64.01	Horizontal
5650.00	52.15	32.68	7.45	41.85	50.43	68.20	-17.77	Vertical
5700.00	53.45	32.77	7.60	41.90	51.92	105.20	-53.28	Vertical
5720.00	60.70	32.81	7.64	41.92	59.23	110.80	-51.57	Vertical
5725.00	61.42	32.81	7.69	41.94	59.98	122.20	-62.22	Vertical
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	50.16	33.04	7.45	41.85	48.80	122.20	-73.40	Horizontal
5855.00	52.49	33.05	7.60	41.90	51.24	110.80	-59.56	Horizontal
5875.00	55.78	33.08	7.64	41.92	54.58	105.20	-50.62	Horizontal
5925.00	53.26	33.17	7.69	41.94	52.18	68.20	-16.02	Horizontal
5850.00	49.26	33.04	7.45	41.85	47.90	122.20	-74.30	Vertical
5855.00	53.67	33.05	7.60	41.90	52.42	110.80	-58.38	Vertical
5875.00	60.15	33.08	7.64	41.92	58.95	105.20	-46.25	Vertical
5925.00	52.47	33.17	7.69	41.94	51.39	68.20	-16.81	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 6.7 Spurious Emission

### 6.7.1 Restricted Band

Test Requirement:	FCC Part15 E Section 15.407(b)								
Test Method:	ANSI C63.10: 2013								
Test Frequency Range:	4.5 GHz to 5.15 GHz and 5.35GHz to 5.46GHz								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
Limit:	Frequency	Limit (dBuV/m @3m)		Remark					
	Above 1GHz	74.00		Peak Value					
Test Procedure:	<ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol>								
Test setup:									
Test Instruments:	Refer to section 5.9 for details								
Test mode:	Refer to section 5.3 for details								
Test results:	Passed								

**Measurement Data (worst case):****Left module:****Band 1:**

Band 1 – 802.11a-(ANT 1)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	53.12	34.50	6.80	42.05	52.37	74.00	-21.63	Horizontal
4500.00	52.59	34.50	6.80	42.05	51.84	74.00	-22.16	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	42.52	34.50	6.80	42.05	41.77	54.00	-12.23	Horizontal
4500.00	41.98	34.50	6.80	42.05	41.23	54.00	-12.77	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	52.33	34.90	7.18	41.85	52.56	74.00	-21.44	Horizontal
5460.00	51.78	34.90	7.18	41.85	52.01	74.00	-21.99	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	42.63	34.90	7.18	41.85	42.86	54.00	-11.14	Horizontal
5460.00	42.55	34.90	7.18	41.85	42.78	54.00	-11.22	Vertical
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11a-(ANT 2)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	51.45	34.50	6.80	42.05	50.70	74.00	-23.30	Horizontal
4500.00	52.98	34.50	6.80	42.05	52.23	74.00	-21.77	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	42.58	34.50	6.80	42.05	41.83	54.00	-12.17	Horizontal
4500.00	41.99	34.50	6.80	42.05	41.24	54.00	-12.76	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	49.85	34.90	7.18	41.85	50.08	74.00	-23.92	Horizontal
5460.00	48.55	34.90	7.18	41.85	48.78	74.00	-25.22	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	41.25	34.90	7.18	41.85	41.48	54.00	-12.52	Horizontal
5460.00	42.69	34.90	7.18	41.85	42.92	54.00	-11.08	Vertical

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 1 – 802.11n(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	52.22	34.50	6.80	42.05	51.47	74.00	-22.53	Horizontal
4500.00	51.48	34.50	6.80	42.05	50.73	74.00	-23.27	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	41.63	34.50	6.80	42.05	40.88	54.00	-13.12	Horizontal
4500.00	42.58	34.50	6.80	42.05	41.83	54.00	-12.17	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	53.26	34.90	7.18	41.85	53.49	74.00	-20.51	Horizontal
5460.00	52.47	34.90	7.18	41.85	52.70	74.00	-21.30	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	42.25	34.90	7.18	41.85	42.48	54.00	-11.52	Horizontal
5460.00	43.97	34.90	7.18	41.85	44.20	54.00	-9.80	Vertical

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 1 – 802.11n(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	52.30	34.50	6.80	42.05	51.55	74.00	-22.45	Horizontal
4500.00	53.98	34.50	6.80	42.05	53.23	74.00	-20.77	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	42.53	34.50	6.80	42.05	41.78	54.00	-12.22	Horizontal
4500.00	41.78	34.50	6.80	42.05	41.03	54.00	-12.97	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	49.63	34.90	7.18	41.85	49.86	74.00	-24.14	Horizontal
5460.00	48.56	34.90	7.18	41.85	48.79	74.00	-25.21	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	42.25	34.90	7.18	41.85	42.48	54.00	-11.52	Horizontal
5460.00	41.39	34.90	7.18	41.85	41.62	54.00	-12.38	Vertical

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 1 – 802.11ac(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	52.26	34.50	6.80	42.05	51.51	74.00	-22.49	Horizontal
4500.00	53.88	34.50	6.80	42.05	53.13	74.00	-20.87	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	41.53	34.50	6.80	42.05	40.78	54.00	-13.22	Horizontal
4500.00	42.98	34.50	6.80	42.05	42.23	54.00	-11.77	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	51.26	34.90	7.18	41.85	51.49	74.00	-22.51	Horizontal
5460.00	48.98	34.90	7.18	41.85	49.21	74.00	-24.79	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	42.53	34.90	7.18	41.85	42.76	54.00	-11.24	Horizontal
5460.00	43.29	34.90	7.18	41.85	43.52	54.00	-10.48	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11ac(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	53.36	34.50	6.80	42.05	52.61	74.00	-21.39	Horizontal
4500.00	52.78	34.50	6.80	42.05	52.03	74.00	-21.97	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	43.25	34.50	6.80	42.05	42.50	54.00	-11.50	Horizontal
4500.00	42.59	34.50	6.80	42.05	41.84	54.00	-12.16	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	53.23	34.90	7.18	41.85	53.46	74.00	-20.54	Horizontal
5460.00	54.85	34.90	7.18	41.85	55.08	74.00	-18.92	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	43.26	34.90	7.18	41.85	43.49	54.00	-10.51	Horizontal
5460.00	42.59	34.90	7.18	41.85	42.82	54.00	-11.18	Vertical

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 1 – 802.11ac(HT80)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	53.26	34.50	6.80	42.05	52.51	74.00	-21.49	Horizontal
4500.00	52.41	34.50	6.80	42.05	51.66	74.00	-22.34	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	42.26	34.50	6.80	42.05	41.51	54.00	-12.49	Horizontal
4500.00	43.59	34.50	6.80	42.05	42.84	54.00	-11.16	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	51.42	34.90	7.18	41.85	51.65	74.00	-22.35	Horizontal
5460.00	53.90	34.90	7.18	41.85	54.13	74.00	-19.87	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	42.25	34.90	7.18	41.85	42.48	54.00	-11.52	Horizontal
5460.00	42.19	34.90	7.18	41.85	42.42	54.00	-11.58	Vertical

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

**Band 4:**

Band 4 – 802.11a-(ANT 1)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	51.26	35.37	7.11	41.89	51.85	74.00	-22.15	Horizontal
5350.00	51.63	35.37	7.11	41.89	52.22	74.00	-21.78	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	42.25	35.37	7.11	41.89	42.84	54.00	-11.16	Horizontal
5350.00	41.98	35.37	7.11	41.89	42.57	54.00	-11.43	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	50.26	34.90	7.18	41.85	50.49	74.00	-23.51	Horizontal
5460.00	51.74	34.90	7.18	41.85	51.97	74.00	-22.03	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	42.26	34.90	7.18	41.85	42.49	54.00	-11.51	Horizontal
5460.00	41.98	34.90	7.18	41.85	42.21	54.00	-11.79	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11a-(ANT 2)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	53.26	35.37	7.11	41.89	53.85	74.00	-20.15	Horizontal
5350.00	52.75	35.37	7.11	41.89	53.34	74.00	-20.66	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	41.15	35.37	7.11	41.89	41.74	54.00	-12.26	Horizontal
5350.00	43.00	35.37	7.11	41.89	43.59	54.00	-10.41	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	51.15	34.90	7.18	41.85	51.38	74.00	-22.62	Horizontal
5460.00	52.47	34.90	7.18	41.85	52.70	74.00	-21.30	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	42.26	34.90	7.18	41.85	42.49	54.00	-11.51	Horizontal
5460.00	41.11	34.90	7.18	41.85	41.34	54.00	-12.66	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	53.26	35.37	7.11	41.89	53.85	74.00	-20.15	Horizontal
5350.00	52.14	35.37	7.11	41.89	52.73	74.00	-21.27	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	42.25	35.37	7.11	41.89	42.84	54.00	-11.16	Horizontal
5350.00	41.98	35.37	7.11	41.89	42.57	54.00	-11.43	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	51.15	34.90	7.18	41.85	51.38	74.00	-22.62	Horizontal
5460.00	52.26	34.90	7.18	41.85	52.49	74.00	-21.51	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	39.63	34.90	7.18	41.85	39.86	54.00	-14.14	Horizontal
5460.00	40.19	34.90	7.18	41.85	40.42	54.00	-13.58	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	52.36	35.37	7.11	41.89	52.95	74.00	-21.05	Horizontal
5350.00	51.48	35.37	7.11	41.89	52.07	74.00	-21.93	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	42.56	35.37	7.11	41.89	43.15	54.00	-10.85	Horizontal
5350.00	41.98	35.37	7.11	41.89	42.57	54.00	-11.43	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	49.63	34.90	7.18	41.85	49.86	74.00	-24.14	Horizontal
5460.00	52.25	34.90	7.18	41.85	52.48	74.00	-21.52	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	40.23	34.90	7.18	41.85	40.46	54.00	-13.54	Horizontal
5460.00	42.69	34.90	7.18	41.85	42.92	54.00	-11.08	Vertical

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11ac(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	51.25	35.37	7.11	41.89	51.84	74.00	-22.16	Horizontal
5350.00	52.47	35.37	7.11	41.89	53.06	74.00	-20.94	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	41.16	35.37	7.11	41.89	41.75	54.00	-12.25	Horizontal
5350.00	42.39	35.37	7.11	41.89	42.98	54.00	-11.02	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	53.32	34.90	7.18	41.85	53.55	74.00	-20.45	Horizontal
5460.00	51.48	34.90	7.18	41.85	51.71	74.00	-22.29	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	42.26	34.90	7.18	41.85	42.49	54.00	-11.51	Horizontal
5460.00	39.59	34.90	7.18	41.85	39.82	54.00	-14.18	Vertical

**Remark:**

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11ac(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	53.26	35.37	7.11	41.89	53.85	74.00	-20.15	Horizontal
5350.00	52.11	35.37	7.11	41.89	52.70	74.00	-21.30	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	41.25	35.37	7.11	41.89	41.84	54.00	-12.16	Horizontal
5350.00	42.59	35.37	7.11	41.89	43.18	54.00	-10.82	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	53.23	34.90	7.18	41.85	53.46	74.00	-20.54	Horizontal
5460.00	52.48	34.90	7.18	41.85	52.71	74.00	-21.29	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	41.15	34.90	7.18	41.85	41.38	54.00	-12.62	Horizontal
5460.00	42.69	34.90	7.18	41.85	42.92	54.00	-11.08	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11ac(HT80)-(MIMO)								
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	53.36	35.37	7.11	41.89	53.95	74.00	-20.05	Horizontal
5350.00	52.22	35.37	7.11	41.89	52.81	74.00	-21.19	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	42.15	35.37	7.11	41.89	42.74	54.00	-11.26	Horizontal
5350.00	41.98	35.37	7.11	41.89	42.57	54.00	-11.43	Vertical
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	48.63	34.90	7.18	41.85	48.86	74.00	-25.14	Horizontal
5460.00	49.63	34.90	7.18	41.85	49.86	74.00	-24.14	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	41.15	34.90	7.18	41.85	41.38	54.00	-12.62	Horizontal
5460.00	40.29	34.90	7.18	41.85	40.52	54.00	-13.48	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

**Right module:****Band 1:**

Band 1 – 802.11a-(ANT 3)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	50.44	34.50	6.80	42.05	49.69	74.00	-24.31	Horizontal
4500.00	51.78	34.50	6.80	42.05	51.03	74.00	-22.97	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	41.63	34.50	6.80	42.05	40.88	54.00	-13.12	Horizontal
4500.00	42.98	34.50	6.80	42.05	42.23	54.00	-11.77	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	50.53	34.90	7.18	41.85	50.76	74.00	-23.24	Horizontal
5460.00	49.78	34.90	7.18	41.85	50.01	74.00	-23.99	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	40.15	34.90	7.18	41.85	40.38	54.00	-13.62	Horizontal
5460.00	41.98	34.90	7.18	41.85	42.21	54.00	-11.79	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 1 – 802.11a-(ANT 4)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	52.26	34.50	6.80	42.05	51.51	74.00	-22.49	Horizontal
4500.00	51.42	34.50	6.80	42.05	50.67	74.00	-23.33	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	41.16	34.50	6.80	42.05	40.41	54.00	-13.59	Horizontal
4500.00	42.59	34.50	6.80	42.05	41.84	54.00	-12.16	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	51.66	34.90	7.18	41.85	51.89	74.00	-22.11	Horizontal
5460.00	52.74	34.90	7.18	41.85	52.97	74.00	-21.03	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	41.59	34.90	7.18	41.85	41.82	54.00	-12.18	Horizontal
5460.00	43.98	34.90	7.18	41.85	44.21	54.00	-9.79	Vertical

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 1 – 802.11n(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	51.26	34.50	6.80	42.05	50.51	74.00	-23.49	Horizontal
4500.00	52.46	34.50	6.80	42.05	51.71	74.00	-22.29	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	42.26	34.50	6.80	42.05	41.51	54.00	-12.49	Horizontal
4500.00	41.88	34.50	6.80	42.05	41.13	54.00	-12.87	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	52.26	34.90	7.18	41.85	52.49	74.00	-21.51	Horizontal
5460.00	53.44	34.90	7.18	41.85	53.67	74.00	-20.33	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	41.15	34.90	7.18	41.85	41.38	54.00	-12.62	Horizontal
5460.00	42.98	34.90	7.18	41.85	43.21	54.00	-10.79	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	52.26	34.50	6.80	42.05	51.51	74.00	-22.49	Horizontal
4500.00	53.87	34.50	6.80	42.05	53.12	74.00	-20.88	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	41.58	34.50	6.80	42.05	40.83	54.00	-13.17	Horizontal
4500.00	42.98	34.50	6.80	42.05	42.23	54.00	-11.77	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	50.52	34.90	7.18	41.85	50.75	74.00	-23.25	Horizontal
5460.00	51.77	34.90	7.18	41.85	52.00	74.00	-22.00	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	42.19	34.90	7.18	41.85	42.42	54.00	-11.58	Horizontal
5460.00	43.69	34.90	7.18	41.85	43.92	54.00	-10.08	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11ac(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	51.25	34.50	6.80	42.05	50.50	74.00	-23.50	Horizontal
4500.00	51.77	34.50	6.80	42.05	51.02	74.00	-22.98	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	41.98	34.50	6.80	42.05	41.23	54.00	-12.77	Horizontal
4500.00	42.74	34.50	6.80	42.05	41.99	54.00	-12.01	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	50.26	34.90	7.18	41.85	50.49	74.00	-23.51	Horizontal
5460.00	49.78	34.90	7.18	41.85	50.01	74.00	-23.99	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	41.45	34.90	7.18	41.85	41.68	54.00	-12.32	Horizontal
5460.00	42.77	34.90	7.18	41.85	43.00	54.00	-11.00	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11ac(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	52.02	34.50	6.80	42.05	51.27	74.00	-22.73	Horizontal
4500.00	51.47	34.50	6.80	42.05	50.72	74.00	-23.28	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	42.36	34.50	6.80	42.05	41.61	54.00	-12.39	Horizontal
4500.00	42.57	34.50	6.80	42.05	41.82	54.00	-12.18	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	52.53	34.90	7.18	41.85	52.76	74.00	-21.24	Horizontal
5460.00	53.48	34.90	7.18	41.85	53.71	74.00	-20.29	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	42.53	34.90	7.18	41.85	42.76	54.00	-11.24	Horizontal
5460.00	43.17	34.90	7.18	41.85	43.40	54.00	-10.60	Vertical

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 1 – 802.11ac(HT80)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	52.53	34.50	6.80	42.05	51.78	74.00	-22.22	Horizontal
4500.00	53.47	34.50	6.80	42.05	52.72	74.00	-21.28	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	41.15	34.50	6.80	42.05	40.40	54.00	-13.60	Horizontal
4500.00	42.75	34.50	6.80	42.05	42.00	54.00	-12.00	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	52.26	34.90	7.18	41.85	52.49	74.00	-21.51	Horizontal
5460.00	53.98	34.90	7.18	41.85	54.21	74.00	-19.79	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	42.25	34.90	7.18	41.85	42.48	54.00	-11.52	Horizontal
5460.00	41.78	34.90	7.18	41.85	42.01	54.00	-11.99	Vertical

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

**Band 4:**

Band 4 – 802.11a-(ANT 1)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	52.26	35.37	7.11	41.89	52.85	74.00	-21.15	Horizontal
5350.00	51.47	35.37	7.11	41.89	52.06	74.00	-21.94	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	42.63	35.37	7.11	41.89	43.22	54.00	-10.78	Horizontal
5350.00	43.15	35.37	7.11	41.89	43.74	54.00	-10.26	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	52.26	34.90	7.18	41.85	52.49	74.00	-21.51	Horizontal
5460.00	53.47	34.90	7.18	41.85	53.70	74.00	-20.30	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	41.15	34.90	7.18	41.85	41.38	54.00	-12.62	Horizontal
5460.00	40.29	34.90	7.18	41.85	40.52	54.00	-13.48	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11a-(ANT 2)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	50.12	35.37	7.11	41.89	50.71	74.00	-23.29	Horizontal
5350.00	50.33	35.37	7.11	41.89	50.92	74.00	-23.08	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	41.15	35.37	7.11	41.89	41.74	54.00	-12.26	Horizontal
5350.00	42.29	35.37	7.11	41.89	42.88	54.00	-11.12	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	51.26	34.90	7.18	41.85	51.49	74.00	-22.51	Horizontal
5460.00	52.39	34.90	7.18	41.85	52.62	74.00	-21.38	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	41.15	34.90	7.18	41.85	41.38	54.00	-12.62	Horizontal
5460.00	42.98	34.90	7.18	41.85	43.21	54.00	-10.79	Vertical

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11n(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	52.23	35.37	7.11	41.89	52.82	74.00	-21.18	Horizontal
5350.00	51.45	35.37	7.11	41.89	52.04	74.00	-21.96	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	41.10	35.37	7.11	41.89	41.69	54.00	-12.31	Horizontal
5350.00	40.74	35.37	7.11	41.89	41.33	54.00	-12.67	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	50.26	34.90	7.18	41.85	50.49	74.00	-23.51	Horizontal
5460.00	50.33	34.90	7.18	41.85	50.56	74.00	-23.44	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	40.15	34.90	7.18	41.85	40.38	54.00	-13.62	Horizontal
5460.00	41.89	34.90	7.18	41.85	42.12	54.00	-11.88	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11n(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	51.45	35.37	7.11	41.89	52.04	74.00	-21.96	Horizontal
5350.00	52.36	35.37	7.11	41.89	52.95	74.00	-21.05	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	41.15	35.37	7.11	41.89	41.74	54.00	-12.26	Horizontal
5350.00	42.09	35.37	7.11	41.89	42.68	54.00	-11.32	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	50.26	34.90	7.18	41.85	50.49	74.00	-23.51	Horizontal
5460.00	51.74	34.90	7.18	41.85	51.97	74.00	-22.03	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	40.26	34.90	7.18	41.85	40.49	54.00	-13.51	Horizontal
5460.00	41.35	34.90	7.18	41.85	41.58	54.00	-12.42	Vertical

**Remark:**

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11ac(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	50.20	35.37	7.11	41.89	50.79	74.00	-23.21	Horizontal
5350.00	51.49	35.37	7.11	41.89	52.08	74.00	-21.92	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	40.26	35.37	7.11	41.89	40.85	54.00	-13.15	Horizontal
5350.00	41.22	35.37	7.11	41.89	41.81	54.00	-12.19	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	52.26	34.90	7.18	41.85	52.49	74.00	-21.51	Horizontal
5460.00	51.46	34.90	7.18	41.85	51.69	74.00	-22.31	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	41.02	34.90	7.18	41.85	41.25	54.00	-12.75	Horizontal
5460.00	40.69	34.90	7.18	41.85	40.92	54.00	-13.08	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11ac(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	51.26	35.37	7.11	41.89	51.85	74.00	-22.15	Horizontal
5350.00	50.98	35.37	7.11	41.89	51.57	74.00	-22.43	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	41.15	35.37	7.11	41.89	41.74	54.00	-12.26	Horizontal
5350.00	42.29	35.37	7.11	41.89	42.88	54.00	-11.12	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	52.36	34.90	7.18	41.85	52.59	74.00	-21.41	Horizontal
5460.00	51.44	34.90	7.18	41.85	51.67	74.00	-22.33	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	40.15	34.90	7.18	41.85	40.38	54.00	-13.62	Horizontal
5460.00	41.98	34.90	7.18	41.85	42.21	54.00	-11.79	Vertical
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

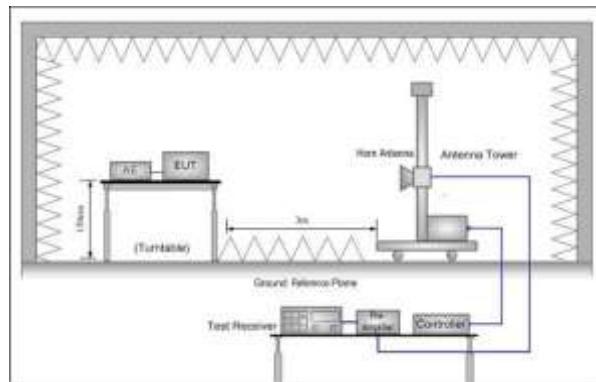
Band 4 – 802.11ac(HT80)-(MIMO)								
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	52.26	35.37	7.11	41.89	52.85	74.00	-21.15	Horizontal
5350.00	51.39	35.37	7.11	41.89	51.98	74.00	-22.02	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	41.15	35.37	7.11	41.89	41.74	54.00	-12.26	Horizontal
5350.00	42.78	35.37	7.11	41.89	43.37	54.00	-10.63	Vertical
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	49.63	34.90	7.18	41.85	49.86	74.00	-24.14	Horizontal
5460.00	48.25	34.90	7.18	41.85	48.48	74.00	-25.52	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	42.15	34.90	7.18	41.85	42.38	54.00	-11.62	Horizontal
5460.00	41.11	34.90	7.18	41.85	41.34	54.00	-12.66	Vertical

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

### 6.7.2 Unwanted Emissions out of the Restricted Bands

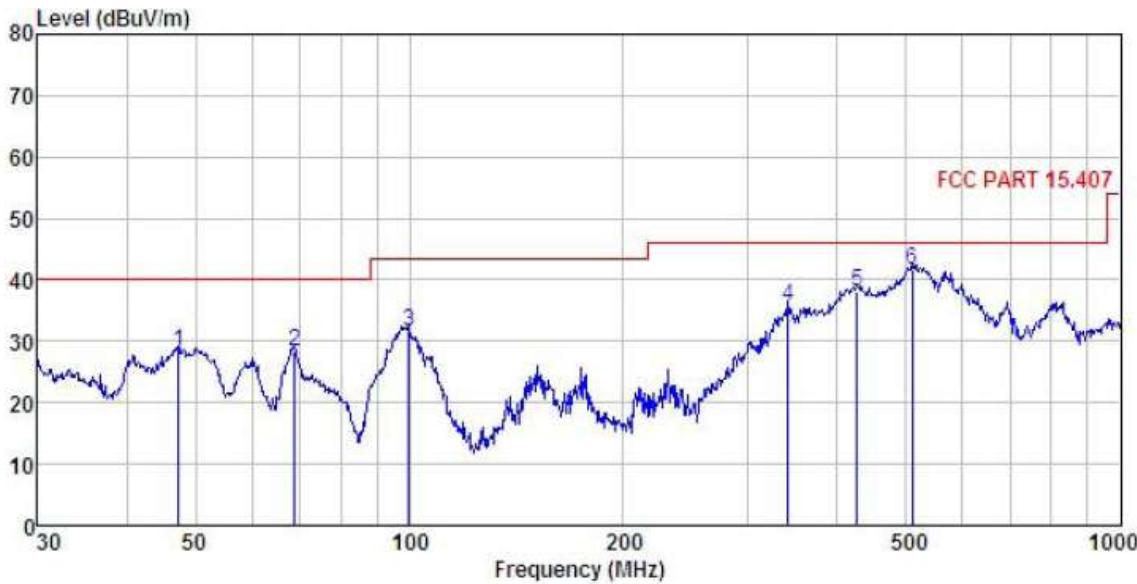
Test Requirement:	FCC Part15 C Section 15.209 and 15.205								
Test Method:	ANSI C63.10: 2013								
Test Frequency Range:	30MHz to 40GHz								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
	30MHz-1GHz	Quasi-peak	100kHz	300kHz	Quasi-peak Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
Limit:	RMS	1MHz	3MHz	Average	Value				
	Frequency	Limit (dB $\mu$ V/m @3m)		Remark					
	30MHz-88MHz	40.0		Quasi-peak Value					
	88MHz-216MHz	43.5		Quasi-peak Value					
	216MHz-960MHz	46.0		Quasi-peak Value					
	960MHz-1GHz	54.0		Quasi-peak Value					
	Above 1GHz	68.20		Peak Value					
		54.00		Average Value					
	<i>Remark:</i>								
	<i>Above 1GHz limit: E[dB<math>\mu</math>V/m] = EIRP[dBm] + 95.2=68.2 dB<math>\mu</math>V/m, for EIPR[dBm]=-27dBm.</i>								
Test Procedure:	<ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</li> </ol>								
Test setup:	<p>Below 1GHz</p> <p>Above 1GHz</p>								



Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

**Measurement Data (worst case):****Below 1GHz**

<b>Product Name:</b>	ADVANCED DIAGNOSTIC & ANALYSIS SYSTEM				<b>Product Model:</b>	MaxiSys MS909		
<b>Test By:</b>	YT				<b>Test mode:</b>	5G Wi-Fi Tx mode		
<b>Test Frequency:</b>	30 MHz ~ 1 GHz				<b>Polarization:</b>	Vertical		
<b>Test Voltage:</b>	AC 120/60Hz				<b>Environment:</b>	Temp: 24°C Huni: 57%		

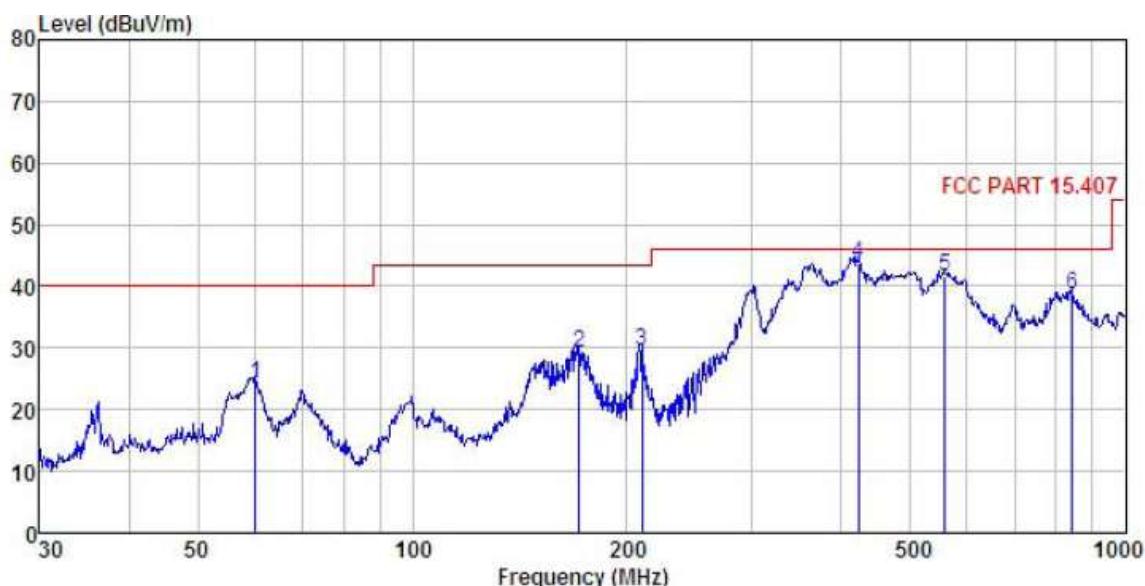
Freq	Read Antenna Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Line Limit	Over Line Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	47.326	44.60	12.20	1.27	29.84	28.23	40.00	-11.77 QP
2	68.872	47.88	8.74	1.49	29.73	28.38	40.00	-11.62 QP
3	99.878	46.79	12.41	1.94	29.53	31.61	43.50	-11.89 QP
4	340.782	46.74	14.44	3.07	28.54	35.71	46.00	-10.29 QP
5	426.521	47.90	15.94	3.14	28.83	38.15	46.00	-7.85 QP
6	510.044	48.77	18.24	3.67	28.98	41.70	46.00	-4.30 QP

**Remark:**

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.
- Test all adapters and modes to reflect only the worst mode

<b>Product Name:</b>	ADVANCED DIAGNOSTIC & ANALYSIS SYSTEM	<b>Product Model:</b>	MaxiSys MS909
<b>Test By:</b>	YT	<b>Test mode:</b>	5G Wi-Fi Tx mode
<b>Test Frequency:</b>	30 MHz ~ 1 GHz	<b>Polarization:</b>	Horizontal
<b>Test Voltage:</b>	AC 120/60Hz	<b>Environment:</b>	Temp: 24°C Huni: 57%



Freq MHz	ReadAntenna Level Factor		Cable Preamp Loss Factor		Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Remark
	MHz	dBuV	dB/m	dB				
1	60.280	41.41	11.31	1.38	29.77	24.33	40.00	-15.67 QP
2	171.393	46.04	9.69	2.66	29.04	29.35	43.50	-14.15 QP
3	210.048	44.41	11.04	2.86	28.77	29.54	43.50	-13.96 QP
4	422.058	53.66	15.86	3.13	28.82	43.83	46.00	-2.17 QP
5	558.730	48.13	18.57	3.90	29.07	41.53	46.00	-4.47 QP
6	842.130	39.94	22.44	4.22	28.03	38.57	46.00	-7.43 QP

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. Test all adapters and modes to reflect only the worst mode

**Above 1GHz:****Left module:****Band 1:**

Band 1 – 802.11a-(ANT 1)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	53.26	40.10	9.82	41.97	61.21	68.20	-6.99	Vertical
10360.00	52.47	40.10	9.82	41.97	60.42	68.20	-7.78	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	40.25	40.10	9.82	41.97	48.20	54.00	-5.80	Vertical
10360.00	39.88	40.10	9.82	41.97	47.83	54.00	-6.17	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	52.45	40.00	9.85	41.95	60.35	68.20	-7.85	Vertical
10400.00	48.39	40.00	9.85	41.95	56.29	68.20	-11.91	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	41.77	40.00	9.85	41.95	49.67	54.00	-4.33	Vertical
10400.00	40.15	40.00	9.85	41.95	48.05	54.00	-5.95	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	49.63	39.70	9.96	41.88	57.41	68.20	-10.79	Vertical
10480.00	51.28	39.70	9.96	41.88	59.06	68.20	-9.14	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	42.15	39.70	9.96	41.88	49.93	54.00	-4.07	Vertical
10480.00	42.30	39.70	9.96	41.88	50.08	54.00	-3.92	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11a-(ANT 2)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	52.26	40.10	9.82	41.97	60.21	68.20	-7.99	Vertical
10360.00	51.78	40.10	9.82	41.97	59.73	68.20	-8.47	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	42.26	40.10	9.82	41.97	50.21	54.00	-3.79	Vertical
10360.00	39.89	40.10	9.82	41.97	47.84	54.00	-6.16	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	53.36	40.00	9.85	41.95	61.26	68.20	-6.94	Vertical
10400.00	54.78	40.00	9.85	41.95	62.68	68.20	-5.52	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	40.05	40.00	9.85	41.95	47.95	54.00	-6.05	Vertical
10400.00	39.59	40.00	9.85	41.95	47.49	54.00	-6.51	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	51.25	39.70	9.96	41.88	59.03	68.20	-9.17	Vertical
10480.00	49.98	39.70	9.96	41.88	57.76	68.20	-10.44	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	40.23	39.70	9.96	41.88	48.01	54.00	-5.99	Vertical
10480.00	40.98	39.70	9.96	41.88	48.76	54.00	-5.24	Horizontal

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 1 – 802.11n(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	51.26	40.10	9.82	41.97	59.21	68.20	-8.99	Vertical
10360.00	49.89	40.10	9.82	41.97	57.84	68.20	-10.36	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	41.48	40.10	9.82	41.97	49.43	54.00	-4.57	Vertical
10360.00	38.69	40.10	9.82	41.97	46.64	54.00	-7.36	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	52.26	40.00	9.85	41.95	60.16	68.20	-8.04	Vertical
10400.00	49.87	40.00	9.85	41.95	57.77	68.20	-10.43	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	42.36	40.00	9.85	41.95	50.26	54.00	-3.74	Vertical
10400.00	39.59	40.00	9.85	41.95	47.49	54.00	-6.51	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	53.36	39.70	9.96	41.88	61.14	68.20	-7.06	Vertical
10480.00	48.57	39.70	9.96	41.88	56.35	68.20	-11.85	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	42.26	39.70	9.96	41.88	50.04	54.00	-3.96	Vertical
10480.00	39.86	39.70	9.96	41.88	47.64	54.00	-6.36	Horizontal
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	48.56	40.00	9.85	41.95	56.46	68.20	-11.74	Vertical
10380.00	49.36	40.00	9.85	41.95	57.26	68.20	-10.94	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	41.15	40.00	9.85	41.95	49.05	54.00	-4.95	Vertical
10380.00	38.78	40.00	9.85	41.95	46.68	54.00	-7.32	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	41.25	39.80	9.92	41.90	49.07	68.20	-19.13	Vertical
10460.00	49.69	39.80	9.92	41.90	57.51	68.20	-10.69	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	40.49	39.80	9.92	41.90	48.31	54.00	-5.69	Vertical
10460.00	39.77	39.80	9.92	41.90	47.59	54.00	-6.41	Horizontal

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 1 – 802.11ac(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	51.42	40.10	9.82	41.97	59.37	68.20	-8.83	Vertical
10360.00	49.85	40.10	9.82	41.97	57.80	68.20	-10.40	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	40.47	40.10	9.82	41.97	48.42	54.00	-5.58	Vertical
10360.00	41.29	40.10	9.82	41.97	49.24	54.00	-4.76	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	52.26	40.00	9.85	41.95	60.16	68.20	-8.04	Vertical
10400.00	49.78	40.00	9.85	41.95	57.68	68.20	-10.52	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	41.17	40.00	9.85	41.95	49.07	54.00	-4.93	Vertical
10400.00	39.58	40.00	9.85	41.95	47.48	54.00	-6.52	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	51.26	39.70	9.96	41.88	59.04	68.20	-9.16	Vertical
10480.00	42.59	39.70	9.96	41.88	50.37	68.20	-17.83	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	38.62	39.70	9.96	41.88	46.40	54.00	-7.60	Vertical
10480.00	37.44	39.70	9.96	41.88	45.22	54.00	-8.78	Horizontal
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11ac(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	48.56	40.00	9.85	41.95	56.46	68.20	-11.74	Vertical
10380.00	49.36	40.00	9.85	41.95	57.26	68.20	-10.94	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	41.22	40.00	9.85	41.95	49.12	54.00	-4.88	Vertical
10380.00	39.78	40.00	9.85	41.95	47.68	54.00	-6.32	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	51.25	39.80	9.92	41.90	59.07	68.20	-9.13	Vertical
10460.00	48.78	39.80	9.92	41.90	56.60	68.20	-11.60	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	41.26	39.80	9.92	41.90	49.08	54.00	-4.92	Vertical
10460.00	39.77	39.80	9.92	41.90	47.59	54.00	-6.41	Horizontal
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11ac(HT80)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10420.00	47.25	40.10	9.82	41.97	55.20	68.20	-13.00	Vertical
10420.00	48.99	40.10	9.82	41.97	56.94	68.20	-11.26	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10420.00	41.15	40.10	9.82	41.97	49.10	54.00	-4.90	Vertical
10420.00	39.87	40.10	9.82	41.97	47.82	54.00	-6.18	Horizontal
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

## Band 4:

Band 4 – 802.11a-(ANT 1)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	50.69	41.50	10.81	42.29	60.71	74.00	-13.29	Vertical
11490.00	52.47	41.50	10.81	42.29	62.49	74.00	-11.51	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	39.59	41.50	10.81	42.29	49.61	54.00	-4.39	Vertical
11490.00	38.58	41.50	10.81	42.29	48.60	54.00	-5.40	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	48.78	41.38	10.78	42.27	58.67	74.00	-15.33	Vertical
11570.00	47.59	41.38	10.78	42.27	57.48	74.00	-16.52	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	37.56	41.38	10.78	42.27	47.45	54.00	-6.55	Vertical
11570.00	38.52	41.38	10.78	42.27	48.41	54.00	-5.59	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	48.57	41.26	10.76	42.26	58.33	74.00	-15.67	Vertical
11650.00	49.82	41.26	10.76	42.26	59.58	74.00	-14.42	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	40.15	41.26	10.76	42.26	49.91	54.00	-4.09	Vertical
11650.00	39.78	41.26	10.76	42.26	49.54	54.00	-4.46	Horizontal

## Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11a-(ANT 2)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	48.25	41.50	10.81	42.29	58.27	74.00	-15.73	Vertical
11490.00	47.72	41.50	10.81	42.29	57.74	74.00	-16.26	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	39.63	41.50	10.81	42.29	49.65	54.00	-4.35	Vertical
11490.00	38.59	41.50	10.81	42.29	48.61	54.00	-5.39	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	48.52	41.38	10.78	42.27	58.41	74.00	-15.59	Vertical
11570.00	47.16	41.38	10.78	42.27	57.05	74.00	-16.95	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	39.63	41.38	10.78	42.27	49.52	54.00	-4.48	Vertical
11570.00	38.75	41.38	10.78	42.27	48.64	54.00	-5.36	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	49.36	41.26	10.76	42.26	59.12	74.00	-14.88	Vertical
11650.00	48.57	41.26	10.76	42.26	58.33	74.00	-15.67	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	39.62	41.26	10.76	42.26	49.38	54.00	-4.62	Vertical
11650.00	38.59	41.26	10.76	42.26	48.35	54.00	-5.65	Horizontal
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	50.56	41.50	10.81	42.29	60.58	74.00	-13.42	Vertical
11490.00	49.86	41.50	10.81	42.29	59.88	74.00	-14.12	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	40.59	41.50	10.81	42.29	50.61	54.00	-3.39	Vertical
11490.00	39.86	41.50	10.81	42.29	49.88	54.00	-4.12	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	48.52	41.38	10.78	42.27	58.41	74.00	-15.59	Vertical
11570.00	47.33	41.38	10.78	42.27	57.22	74.00	-16.78	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	39.56	41.38	10.78	42.27	49.45	54.00	-4.55	Vertical
11570.00	38.57	41.38	10.78	42.27	48.46	54.00	-5.54	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	40.15	41.26	10.76	42.26	49.91	74.00	-24.09	Vertical
11650.00	39.59	41.26	10.76	42.26	49.35	74.00	-24.65	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	39.63	41.26	10.76	42.26	49.39	54.00	-4.61	Vertical
11650.00	38.54	41.26	10.76	42.26	48.30	54.00	-5.70	Horizontal
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11510.00	49.36	41.50	10.81	42.29	59.38	74.00	-14.62	Vertical
11510.00	48.52	41.50	10.81	42.29	58.54	74.00	-15.46	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11510.00	38.62	41.50	10.81	42.29	48.64	54.00	-5.36	Vertical
11510.00	39.56	41.50	10.81	42.29	49.58	54.00	-4.42	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11590.00	48.52	41.32	10.77	42.27	58.34	74.00	-15.66	Vertical
11590.00	47.12	41.32	10.77	42.27	56.94	74.00	-17.06	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11590.00	39.56	41.32	10.77	42.27	49.38	54.00	-4.62	Vertical
11590.00	38.57	41.32	10.77	42.27	48.39	54.00	-5.61	Horizontal

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11ac(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	46.53	41.50	10.81	42.29	56.55	74.00	-17.45	Vertical
11490.00	48.15	41.50	10.81	42.29	58.17	74.00	-15.83	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	38.74	41.50	10.81	42.29	48.76	54.00	-5.24	Vertical
11490.00	39.22	41.50	10.81	42.29	49.24	54.00	-4.76	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	50.15	41.38	10.78	42.27	60.04	74.00	-13.96	Vertical
11570.00	49.82	41.38	10.78	42.27	59.71	74.00	-14.29	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	38.13	41.38	10.78	42.27	48.02	54.00	-5.98	Vertical
11570.00	39.77	41.38	10.78	42.27	49.66	54.00	-4.34	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	48.56	41.26	10.76	42.26	58.32	74.00	-15.68	Vertical
11650.00	47.97	41.26	10.76	42.26	57.73	74.00	-16.27	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	38.53	41.26	10.76	42.26	48.29	54.00	-5.71	Vertical
11650.00	39.69	41.26	10.76	42.26	49.45	54.00	-4.55	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11ac(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11510.00	47.15	41.50	10.81	42.29	57.17	74.00	-16.83	Vertical
11510.00	48.58	41.50	10.81	42.29	58.60	74.00	-15.40	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11510.00	39.63	41.50	10.81	42.29	49.65	54.00	-4.35	Vertical
11510.00	38.41	41.50	10.81	42.29	48.43	54.00	-5.57	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11590.00	48.69	41.32	10.77	42.27	58.51	74.00	-15.49	Vertical
11590.00	47.15	41.32	10.77	42.27	56.97	74.00	-17.03	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11590.00	40.15	41.32	10.77	42.27	49.97	54.00	-4.03	Vertical
11590.00	39.58	41.32	10.77	42.27	49.40	54.00	-4.60	Horizontal
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11ac(HT80)-(MIMO)								
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11550.00	48.53	41.50	10.81	42.29	58.55	74.00	-15.45	Vertical
11550.00	47.29	41.50	10.81	42.29	57.31	74.00	-16.69	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11550.00	40.36	41.50	10.81	42.29	50.38	54.00	-3.62	Vertical
11550.00	38.45	41.50	10.81	42.29	48.47	54.00	-5.53	Horizontal
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

**Right module:****Band 1:**

Band 1 – 802.11a-(ANT 1)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	49.82	40.10	9.82	41.97	57.77	68.20	-10.43	Vertical
10360.00	48.63	40.10	9.82	41.97	56.58	68.20	-11.62	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	41.11	40.10	9.82	41.97	49.06	54.00	-4.94	Vertical
10360.00	39.58	40.10	9.82	41.97	47.53	54.00	-6.47	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	48.26	40.00	9.85	41.95	56.16	68.20	-12.04	Vertical
10400.00	49.63	40.00	9.85	41.95	57.53	68.20	-10.67	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	40.05	40.00	9.85	41.95	47.95	54.00	-6.05	Vertical
10400.00	39.26	40.00	9.85	41.95	47.16	54.00	-6.84	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	50.15	39.70	9.96	41.88	57.93	68.20	-10.27	Vertical
10480.00	49.69	39.70	9.96	41.88	57.47	68.20	-10.73	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	40.67	39.70	9.96	41.88	48.45	54.00	-5.55	Vertical
10480.00	40.59	39.70	9.96	41.88	48.37	54.00	-5.63	Horizontal

**Remark:**

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 1 – 802.11a-(ANT 2)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	49.85	40.10	9.82	41.97	57.80	68.20	-10.40	Vertical
10360.00	48.12	40.10	9.82	41.97	56.07	68.20	-12.13	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	40.26	40.10	9.82	41.97	48.21	54.00	-5.79	Vertical
10360.00	39.87	40.10	9.82	41.97	47.82	54.00	-6.18	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	51.26	40.00	9.85	41.95	59.16	68.20	-9.04	Vertical
10400.00	48.78	40.00	9.85	41.95	56.68	68.20	-11.52	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	42.36	40.00	9.85	41.95	50.26	54.00	-3.74	Vertical
10400.00	39.89	40.00	9.85	41.95	47.79	54.00	-6.21	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	50.06	39.70	9.96	41.88	57.84	68.20	-10.36	Vertical
10480.00	49.78	39.70	9.96	41.88	57.56	68.20	-10.64	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	41.12	39.70	9.96	41.88	48.90	54.00	-5.10	Vertical
10480.00	39.48	39.70	9.96	41.88	47.26	54.00	-6.74	Horizontal

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 1 – 802.11n(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	49.86	40.10	9.82	41.97	57.81	68.20	-10.39	Vertical
10360.00	48.55	40.10	9.82	41.97	56.50	68.20	-11.70	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	39.50	40.10	9.82	41.97	47.45	54.00	-6.55	Vertical
10360.00	40.78	40.10	9.82	41.97	48.73	54.00	-5.27	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	49.85	40.00	9.85	41.95	57.75	68.20	-10.45	Vertical
10400.00	48.56	40.00	9.85	41.95	56.46	68.20	-11.74	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	39.63	40.00	9.85	41.95	47.53	54.00	-6.47	Vertical
10400.00	38.77	40.00	9.85	41.95	46.67	54.00	-7.33	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	52.25	39.70	9.96	41.88	60.03	68.20	-8.17	Vertical
10480.00	49.71	39.70	9.96	41.88	57.49	68.20	-10.71	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	39.63	39.70	9.96	41.88	47.41	54.00	-6.59	Vertical
10480.00	38.78	39.70	9.96	41.88	46.56	54.00	-7.44	Horizontal
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	49.83	40.00	9.85	41.95	57.73	68.20	-10.47	Vertical
10380.00	48.55	40.00	9.85	41.95	56.45	68.20	-11.75	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	39.26	40.00	9.85	41.95	47.16	54.00	-6.84	Vertical
10380.00	38.74	40.00	9.85	41.95	46.64	54.00	-7.36	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	49.85	39.80	9.92	41.90	57.67	68.20	-10.53	Vertical
10460.00	48.29	39.80	9.92	41.90	56.11	68.20	-12.09	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	42.36	39.80	9.92	41.90	50.18	54.00	-3.82	Vertical
10460.00	39.78	39.80	9.92	41.90	47.60	54.00	-6.40	Horizontal

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 1 – 802.11ac(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	49.63	40.10	9.82	41.97	57.58	68.20	-10.62	Vertical
10360.00	48.72	40.10	9.82	41.97	56.67	68.20	-11.53	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	40.15	40.10	9.82	41.97	48.10	54.00	-5.90	Vertical
10360.00	39.69	40.10	9.82	41.97	47.64	54.00	-6.36	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	50.36	40.00	9.85	41.95	58.26	68.20	-9.94	Vertical
10400.00	48.36	40.00	9.85	41.95	56.26	68.20	-11.94	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	39.63	40.00	9.85	41.95	47.53	54.00	-6.47	Vertical
10400.00	40.22	40.00	9.85	41.95	48.12	54.00	-5.88	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	49.63	39.70	9.96	41.88	57.41	68.20	-10.79	Vertical
10480.00	48.72	39.70	9.96	41.88	56.50	68.20	-11.70	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	40.39	39.70	9.96	41.88	48.17	54.00	-5.83	Vertical
10480.00	39.59	39.70	9.96	41.88	47.37	54.00	-6.63	Horizontal

**Remark:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 1 – 802.11ac(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	49.58	40.00	9.85	41.95	57.48	68.20	-10.72	Vertical
10380.00	48.71	40.00	9.85	41.95	56.61	68.20	-11.59	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	39.85	40.00	9.85	41.95	47.75	54.00	-6.25	Vertical
10380.00	38.71	40.00	9.85	41.95	46.61	54.00	-7.39	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	52.26	39.80	9.92	41.90	60.08	68.20	-8.12	Vertical
10460.00	47.15	39.80	9.92	41.90	54.97	68.20	-13.23	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	39.63	39.80	9.92	41.90	47.45	54.00	-6.55	Vertical
10460.00	38.72	39.80	9.92	41.90	46.54	54.00	-7.46	Horizontal
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11ac(HT80)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10420.00	48.52	40.10	9.82	41.97	56.47	68.20	-11.73	Vertical
10420.00	49.32	40.10	9.82	41.97	57.27	68.20	-10.93	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10420.00	39.56	40.10	9.82	41.97	47.51	54.00	-6.49	Vertical
10420.00	40.19	40.10	9.82	41.97	48.14	54.00	-5.86	Horizontal
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

## Band 4:

Band 4 – 802.11a-(ANT 1)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	48.26	41.50	10.81	42.29	58.28	74.00	-15.72	Vertical
11490.00	48.72	41.50	10.81	42.29	58.74	74.00	-15.26	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	39.26	41.50	10.81	42.29	49.28	54.00	-4.72	Vertical
11490.00	38.45	41.50	10.81	42.29	48.47	54.00	-5.53	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	50.15	41.38	10.78	42.27	60.04	74.00	-13.96	Vertical
11570.00	49.87	41.38	10.78	42.27	59.76	74.00	-14.24	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	38.45	41.38	10.78	42.27	48.34	54.00	-5.66	Vertical
11570.00	39.26	41.38	10.78	42.27	49.15	54.00	-4.85	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	50.12	41.26	10.76	42.26	59.88	74.00	-14.12	Vertical
11650.00	51.24	41.26	10.76	42.26	61.00	74.00	-13.00	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	39.66	41.26	10.76	42.26	49.42	54.00	-4.58	Vertical
11650.00	38.75	41.26	10.76	42.26	48.51	54.00	-5.49	Horizontal

## Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11a-(ANT 2)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	49.63	41.50	10.81	42.29	59.65	74.00	-14.35	Vertical
11490.00	48.77	41.50	10.81	42.29	58.79	74.00	-15.21	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	38.52	41.50	10.81	42.29	48.54	54.00	-5.46	Vertical
11490.00	39.15	41.50	10.81	42.29	49.17	54.00	-4.83	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	49.78	41.38	10.78	42.27	59.67	74.00	-14.33	Vertical
11570.00	48.22	41.38	10.78	42.27	58.11	74.00	-15.89	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	39.63	41.38	10.78	42.27	49.52	54.00	-4.48	Vertical
11570.00	38.78	41.38	10.78	42.27	48.67	54.00	-5.33	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	50.15	41.26	10.76	42.26	59.91	74.00	-14.09	Vertical
11650.00	48.79	41.26	10.76	42.26	58.55	74.00	-15.45	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	40.13	41.26	10.76	42.26	49.89	54.00	-4.11	Vertical
11650.00	39.69	41.26	10.76	42.26	49.45	54.00	-4.55	Horizontal
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	49.63	41.50	10.81	42.29	59.65	74.00	-14.35	Vertical
11490.00	48.52	41.50	10.81	42.29	58.54	74.00	-15.46	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	39.15	41.50	10.81	42.29	49.17	54.00	-4.83	Vertical
11490.00	40.27	41.50	10.81	42.29	50.29	54.00	-3.71	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	49.59	41.38	10.78	42.27	59.48	74.00	-14.52	Vertical
11570.00	48.55	41.38	10.78	42.27	58.44	74.00	-15.56	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	40.26	41.38	10.78	42.27	50.15	54.00	-3.85	Vertical
11570.00	41.72	41.38	10.78	42.27	51.61	54.00	-2.39	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	49.63	41.26	10.76	42.26	59.39	74.00	-14.61	Vertical
11650.00	48.79	41.26	10.76	42.26	58.55	74.00	-15.45	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	40.15	41.26	10.76	42.26	49.91	54.00	-4.09	Vertical
11650.00	41.29	41.26	10.76	42.26	51.05	54.00	-2.95	Horizontal
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11510.00	49.53	41.50	10.81	42.29	59.55	74.00	-14.45	Vertical
11510.00	48.52	41.50	10.81	42.29	58.54	74.00	-15.46	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11510.00	40.15	41.50	10.81	42.29	50.17	54.00	-3.83	Vertical
11510.00	39.56	41.50	10.81	42.29	49.58	54.00	-4.42	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11590.00	50.26	41.32	10.77	42.27	60.08	74.00	-13.92	Vertical
11590.00	49.85	41.32	10.77	42.27	59.67	74.00	-14.33	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11590.00	40.02	41.32	10.77	42.27	49.84	54.00	-4.16	Vertical
11590.00	38.59	41.32	10.77	42.27	48.41	54.00	-5.59	Horizontal

*Remark:*

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11ac(HT20)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	47.59	41.50	10.81	42.29	57.61	74.00	-16.39	Vertical
11490.00	50.37	41.50	10.81	42.29	60.39	74.00	-13.61	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	40.62	41.50	10.81	42.29	50.64	54.00	-3.36	Vertical
11490.00	40.39	41.50	10.81	42.29	50.41	54.00	-3.59	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	47.15	41.38	10.78	42.27	57.04	74.00	-16.96	Vertical
11570.00	50.98	41.38	10.78	42.27	60.87	74.00	-13.13	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	41.15	41.38	10.78	42.27	51.04	54.00	-2.96	Vertical
11570.00	39.75	41.38	10.78	42.27	49.64	54.00	-4.36	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	51.25	41.26	10.76	42.26	61.01	74.00	-12.99	Vertical
11650.00	50.33	41.26	10.76	42.26	60.09	74.00	-13.91	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	40.78	41.26	10.76	42.26	50.54	54.00	-3.46	Vertical
11650.00	39.63	41.26	10.76	42.26	49.39	54.00	-4.61	Horizontal

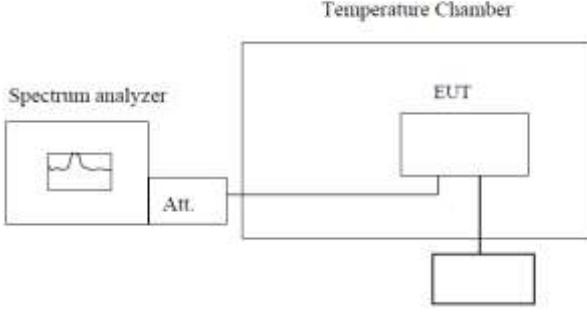
Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Band 4 – 802.11ac(HT40)-(MIMO)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11510.00	48.25	41.50	10.81	42.29	58.27	74.00	-15.73	Vertical
11510.00	49.62	41.50	10.81	42.29	59.64	74.00	-14.36	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11510.00	39.72	41.50	10.81	42.29	49.74	54.00	-4.26	Vertical
11510.00	39.74	41.50	10.81	42.29	49.76	54.00	-4.24	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11590.00	49.26	41.32	10.77	42.27	59.08	74.00	-14.92	Vertical
11590.00	47.85	41.32	10.77	42.27	57.67	74.00	-16.33	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11590.00	41.16	41.32	10.77	42.27	50.98	54.00	-3.02	Vertical
11590.00	40.98	41.32	10.77	42.27	50.80	54.00	-3.20	Horizontal
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11ac(HT80)-(MIMO)								
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11550.00	50.36	41.50	10.81	42.29	60.38	74.00	-13.62	Vertical
11550.00	48.78	41.50	10.81	42.29	58.80	74.00	-15.20	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11550.00	40.31	41.50	10.81	42.29	50.33	54.00	-3.67	Vertical
11550.00	38.98	41.50	10.81	42.29	49.00	54.00	-5.00	Horizontal
<i>Remark:</i>								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

## 6.8 Frequency stability

Test Requirement:	FCC Part15 E Section 15.407 (g)
Limit:	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
Test setup:	<p style="text-align: center;">    <b>Temperature Chamber</b>  <b>EUT</b>  <b>Spectrum analyzer</b>  <b>Att.</b>  <b>Variable Power Supply</b> </p> <p><b>Note :</b> Measurement setup for testing on Antenna connector</p>
Test procedure:	<ol style="list-style-type: none"> <li>1. The EUT is installed in an environment test chamber with external power source.</li> <li>2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.</li> <li>3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.</li> <li>4. When temperature is stabled, measure the frequency stability.</li> <li>5. The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.</li> </ol>
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

**Measurement Data (the worst channel):****Left module:****Band 1:****Voltage vs. Frequency Stability (Lowest channel=5180MHz)**

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Temp(°C)	Voltage(ac)		
20	102V	5179.997426	0.50
	120V	5179.981472	3.58
	138V	5179.975781	4.67

**Temperature vs. Frequency Stability (Lowest channel=5180MHz)**

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Voltage(ac)	Temp(°C)		
120V	-20	5179.982145	3.45
	-10	5179.992364	1.47
	0	5179.975263	4.78
	10	5179.984125	3.06
	20	5179.992254	1.50
	30	5179.982547	3.37
	40	5179.961587	7.42
	50	5179.977748	4.30

Remark: The ANT 1 and ANT 2 are the same chip control, pre-scan ANT 1 and ANT 2, found ANT 1 was worse case mode. The report only reflects the worst mode.

**Band 4:****Voltage vs. Frequency Stability (Lowest channel=5745MHz)**

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Temp(°C)	Voltage(ac)		
20	102V	5744.982145	3.11
	120V	5744.995213	0.83
	138V	5744.987449	2.18

**Temperature vs. Frequency Stability (Lowest channel=5745MHz)**

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Voltage(ac)	Temp(°C)		
120V	-20	5744.992653	1.28
	-10	5744.989586	1.81
	0	5744.992365	1.33
	10	5744.981546	3.21
	20	5744.991748	1.44
	30	5744.996658	0.58
	40	5744.989874	1.76
	50	5744.989962	1.75

Remark: The ANT 1 and ANT 2 are the same chip control, pre-scan ANT 1 and ANT 2, found ANT 1 was worse case mode. The report only reflects the worst mode.

**Right module:****Band 1:****Voltage vs. Frequency Stability (Lowest channel=5180MHz)**

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Temp(°C)	Voltage(ac)		
20	102V	5179.997643	0.45
	120V	5179.974779	4.87
	138V	5179.963951	6.96

**Temperature vs. Frequency Stability (Lowest channel=5180MHz)**

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Voltage(ac)	Temp(°C)		
120V	-20	5179.987033	2.50
	-10	5179.995377	0.89
	0	5179.968421	6.10
	10	5179.987556	2.40
	20	5179.996681	0.64
	30	5179.974290	4.96
	40	5179.963775	6.99
	50	5179.974929	4.84

Remark: The ANT 3 and ANT 4 are the same chip control, pre-scan ANT 3 and ANT 4, found ANT 3 was worse case mode. The report only reflects the worst mode.

**Band 4:****Voltage vs. Frequency Stability (Lowest channel=5745MHz)**

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Temp(°C)	Voltage(ac)		
20	102V	5744.995265	0.82
	120V	5744.989893	1.76
	138V	5744.978598	3.73

**Temperature vs. Frequency Stability (Lowest channel=5745MHz)**

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Voltage(ac)	Temp(°C)		
120V	-20	5744.988263	2.04
	-10	5744.992156	1.37
	0	5744.988236	2.05
	10	5744.994871	0.89
	20	5744.988523	2.00
	30	5744.993269	1.17
	40	5744.987451	2.18
	50	5744.993325	1.16

Remark: The ANT 3 and ANT 4 are the same chip control, pre-scan ANT 3 and ANT 4, found ANT 3 was worse case mode. The report only reflects the worst mode.