802.11ax20

CH52_Ant. 0	CH60_Ant. 0	CH64_Ant. 0
		
CH52_Ant. 1	**CH60_Ant. 1**	**CH64_Ant. 1**
		

802.11ax40

CH54_Ant. 0	CH62_Ant. 0	N/A
		N/A
CH54_Ant. 1	**CH62_Ant. 1**	**N/A**
		N/A

802.11ax80

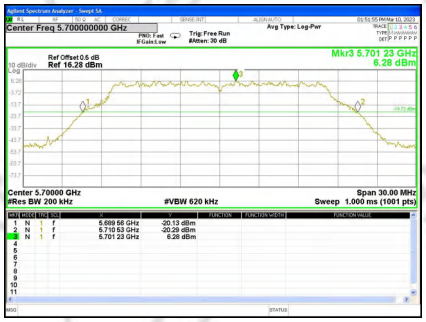
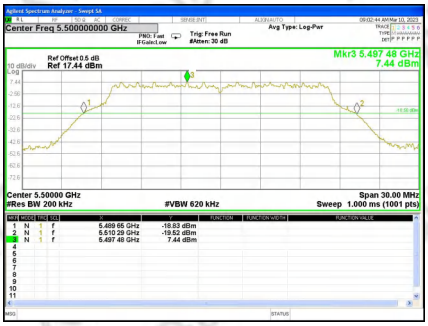
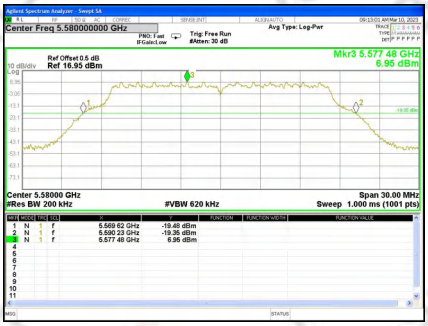
CH58_Ant. 0	CH58_Ant. 1	N/A
		N/A

802.11ax160

CH50_Ant. 0	CH50_Ant. 1	N/A
		N/A

5470MHz-5725MHz(26BW)

802.11a

CH100_Ant. 0	CH116_Ant. 0	CH140_Ant. 0
		
CH100_Ant. 1	**CH116_Ant. 1**	**CH140_Ant. 1**
		

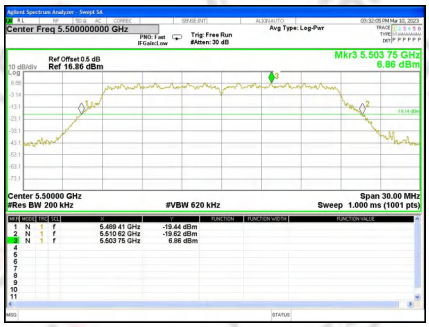
802.11n20

CH100_Ant. 0	CH116_Ant. 0	CH140_Ant. 0
		
CH100_Ant. 1	**CH116_Ant. 1**	**CH140_Ant. 1**
		

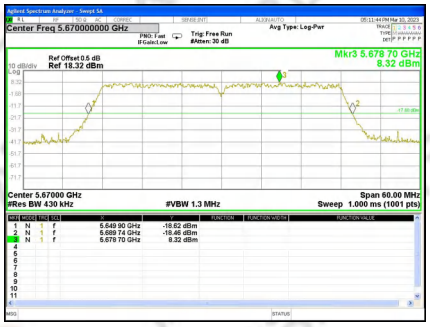
802.11n40

CH102_Ant. 0	CH110_Ant. 0	CH134_Ant. 0
		
CH102_Ant. 1	**CH110_Ant. 1**	**CH134_Ant. 1**
		

802.11ac20

CH100_Ant. 0	CH116_Ant. 0	CH140_Ant. 0
		
CH100_Ant. 1	**CH116_Ant. 1**	**CH140_Ant. 1**
		

802.11ac40

CH102_Ant. 0	CH110_Ant. 0	CH134_Ant. 0
		
CH102_Ant. 1	**CH110_Ant. 1**	**CH134_Ant. 1**
		

802.11ac80

CH106_Ant. 0	CH122_Ant. 0	N/A
		N/A
CH106_Ant. 1	**CH122_Ant. 1**	**N/A**
		N/A

802.11ac160

CH114_Ant. 0	CH114_Ant. 1	N/A
		N/A

802.11ax20

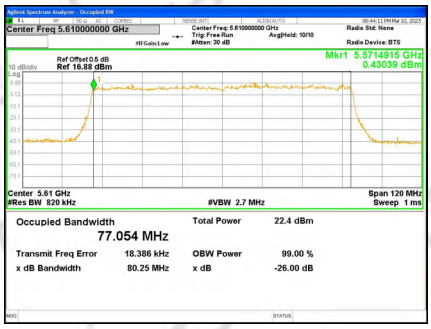
CH100_Ant. 0	CH116_Ant. 0	CH140_Ant. 0
		
CH100_Ant. 1	**CH116_Ant. 1**	**CH140_Ant. 1**
		

802.11ax40

CH102_Ant. 0	CH110_Ant. 0	CH134_Ant. 0
		

CH102_Ant. 1	CH110_Ant. 1	CH134_Ant. 1
		

802.11ax80

CH106_Ant. 0	CH122_Ant. 0	N/A
		N/A
CH106_Ant. 1	**CH122_Ant. 1**	**N/A**
		N/A

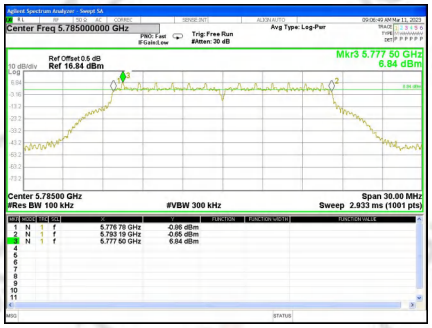
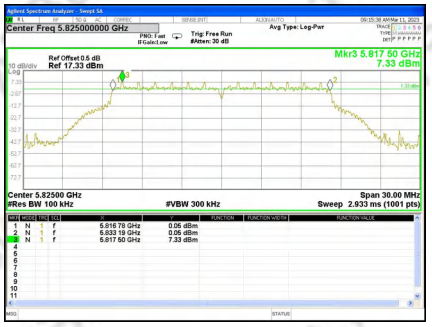
802.11ax160

CH114_Ant. 0	CH114_Ant. 1	N/A
		N/A

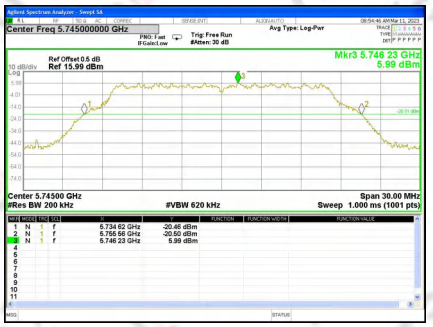
5725MHz-5850MHz(6BW&26BW)

802.11a

(6BW)

CH149_Ant. 0	CH157_Ant. 0	CH165_Ant. 0
		
CH149_Ant. 1	**CH157_Ant. 1**	**CH165_Ant. 1**
		

(26BW)

CH149_Ant. 0	CH157_Ant. 0	CH165_Ant. 0
		
CH149_Ant. 1	**CH157_Ant. 1**	**CH165_Ant. 1**
		

802.11n20

(6BW)

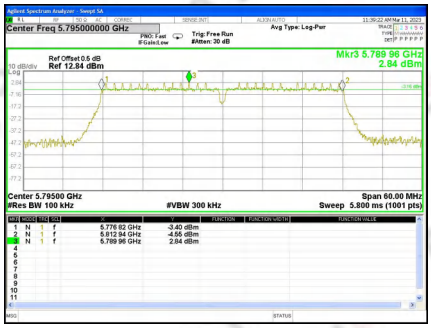
CH149_Ant. 0	CH157_Ant. 0	CH165_Ant. 0
		
CH149_Ant. 1	CH157_Ant. 1	CH165_Ant. 1
		

(26BW)

CH149_Ant. 0	CH157_Ant. 0	CH165_Ant. 0
		
CH149_Ant. 1	CH157_Ant. 1	CH165_Ant. 1
		

802.11n40

(6BW)

CH151_Ant. 0	CH159_Ant. 0	N/A
		N/A
CH151_Ant. 1	CH159_Ant. 1	N/A
		N/A

(26BW)

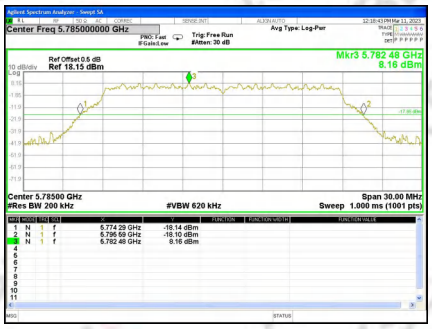
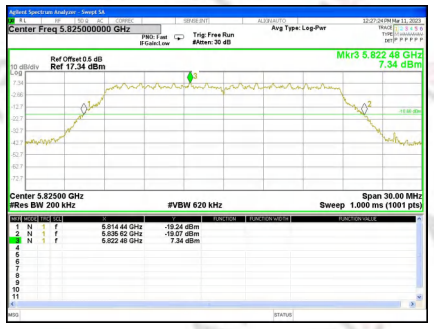
CH151_Ant. 0	CH159_Ant. 0	N/A
		N/A
CH151_Ant. 1	CH159_Ant. 1	N/A
		N/A

802.11ac20

(6BW)

CH149_Ant. 0	CH157_Ant. 0	CH165_Ant. 0
		
CH149_Ant. 1	**CH157_Ant. 1**	**CH165_Ant. 1**
		

(26BW)

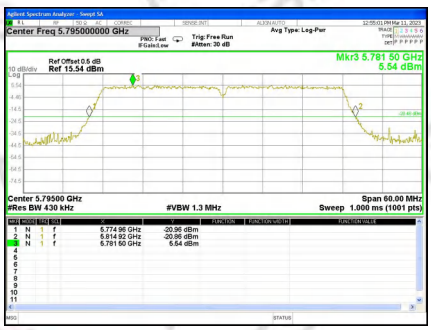
CH149_Ant. 0	CH157_Ant. 0	CH165_Ant. 0
		
CH149_Ant. 1	**CH157_Ant. 1**	**CH165_Ant. 1**
		

802.11ac40

(6BW)

CH151_Ant. 0	CH159_Ant. 0	N/A
		N/A
CH151_Ant. 1	CH159_Ant. 1	N/A
		N/A

(26BW)

CH151_Ant. 0	CH159_Ant. 0	N/A
		N/A
CH151_Ant. 1	CH159_Ant. 1	N/A
		N/A

802.11ac80

(6BW)

CH155_Ant. 0	CH155_Ant. 1	N/A
		N/A

(26BW)

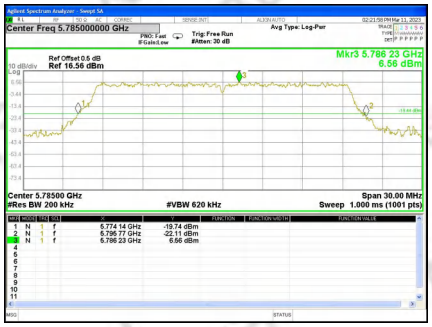
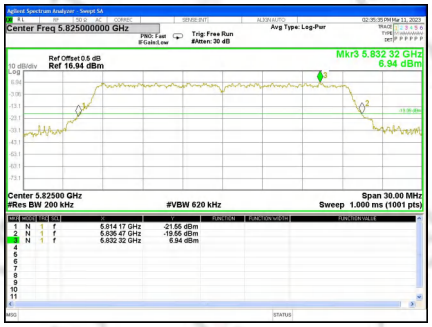
CH155_Ant. 0	CH155_Ant. 1	N/A
		N/A

802.11ax20

(6BW)

CH149_Ant. 0	CH157_Ant. 0	CH165_Ant. 0
		
CH149_Ant. 1	CH157_Ant. 1	CH165_Ant. 1
		

(26BW)

CH149_Ant. 0	CH157_Ant. 0	CH165_Ant. 0
		
CH149_Ant. 1	**CH157_Ant. 1**	**CH165_Ant. 1**
		

802.11ax40

(6BW)

CH151_Ant. 0	CH159_Ant. 0	N/A
		N/A
CH151_Ant. 1	**CH159_Ant. 1**	**N/A**
		N/A

(26BW)

CH151_Ant. 0	CH159_Ant. 0	N/A
		N/A
CH151_Ant. 1	CH159_Ant. 1	N/A
		N/A

802.11ax80

(6BW)

CH155_Ant. 0	CH155_Ant. 1	N/A
		N/A

(26BW)

CH155_Ant. 0	CH155_Ant. 1	N/A
		N/A

5.2. OCCUPIED BANDWIDTH(99%)

The following procedure shall be used for measuring (99 %) power bandwidth:

5.2.1. TEST PROCEDURE

The testing follows FCC KDB 789033 D02 General UNII Test Procedures v02r01.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.

2. Set span = 1.5 times to 5.0 times the OBW.

3. Set RBW = 1 % to 5 % of the OBW

4. Set VBW ≥ 3 · RBW

5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.

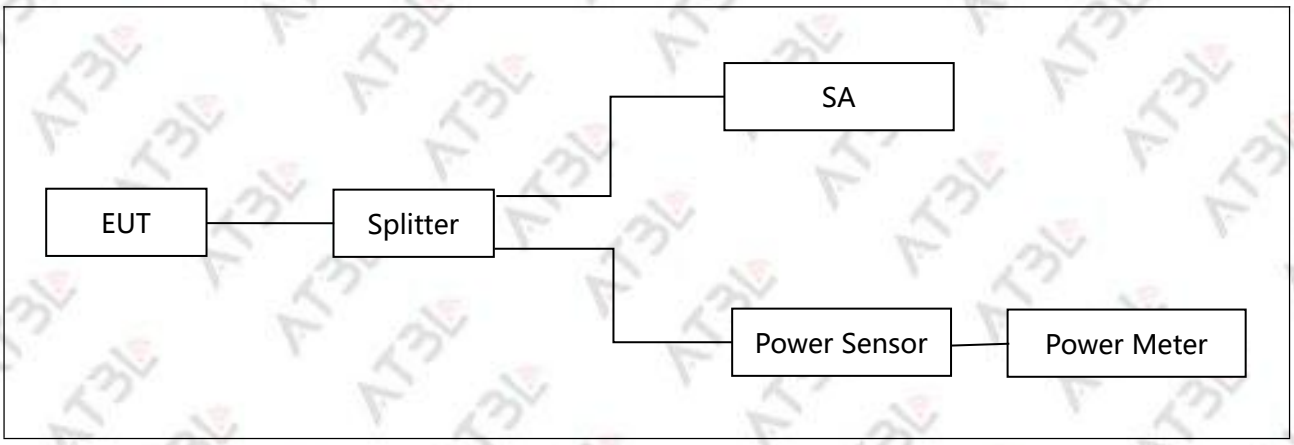
6. Use the 99 % power bandwidth function of the instrument (if available).

7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

5.2.2. DEVIATION FROM STANDARD

No deviation.

5.2.3. TEST SETUP



5.2.4. EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.2.5. TEST RESULTS

5150MHz-5250MHz(OBW)

Condition	Mode	Frequency (MHz)	99%OBW (MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11a20	5180	16.646	5150-5250	Pass	Ant0
NVNT	11a20	5180	16.497	5150-5250	Pass	Ant1
NVNT	11a20	5200	16.661	5150-5250	Pass	Ant0
NVNT	11a20	5200	16.520	5150-5250	Pass	Ant1
NVNT	11a20	5240	16.653	5150-5250	Pass	Ant0
NVNT	11a20	5240	16.510	5150-5250	Pass	Ant1

Condition	Mode	Frequency (MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11n20	5180	17.755	5150-5250	Pass	Ant0
NVNT	11n20	5180	17.732	5150-5250	Pass	Ant1
NVNT	11n20	5200	17.764	5150-5250	Pass	Ant0
NVNT	11n20	5200	17.746	5150-5250	Pass	Ant1
NVNT	11n20	5240	17.759	5150-5250	Pass	Ant0
NVNT	11n20	5240	17.731	5150-5250	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11n40	5190	36.187	5150-5250	Pass	Ant0
NVNT	11n40	5190	36.279	5150-5250	Pass	Ant1
NVNT	11n40	5230	36.207	5150-5250	Pass	Ant0
NVNT	11n40	5230	36.300	5150-5250	Pass	Ant1

Condition	Mode	Frequency (MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11ac20	5180	17.780	5150-5250	Pass	Ant0
NVNT	11ac20	5180	17.768	5150-5250	Pass	Ant1
NVNT	11ac20	5200	17.751	5150-5250	Pass	Ant0
NVNT	11ac20	5200	17.752	5150-5250	Pass	Ant1
NVNT	11ac20	5240	17.762	5150-5250	Pass	Ant0
NVNT	11ac20	5240	17.752	5150-5250	Pass	Ant1

Condition	Mode	Frequency (MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11ac40	5190	36.261	5150-5250	Pass	Ant0
NVNT	11ac40	5190	36.294	5150-5250	Pass	Ant1
NVNT	11ac40	5230	36.307	5150-5250	Pass	Ant0
NVNT	11ac40	5230	36.261	5150-5250	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11ac80	5210	75.910	5150-5250	Pass	Ant0
NVNT	11ac80	5210	75.873	5150-5250	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW (MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11ac160	5250	154.624	5150-5250	Pass	Ant0
NVNT	11ac160	5250	154.768	5150-5250	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11ax20	5180	18.973	5150-5250	Pass	Ant0
NVNT	11ax20	5180	18.998	5150-5250	Pass	Ant1
NVNT	11ax20	5200	18.975	5150-5250	Pass	Ant0
NVNT	11ax20	5200	18.968	5150-5250	Pass	Ant1
NVNT	11ax20	5240	18.989	5150-5250	Pass	Ant0
NVNT	11ax20	5240	18.993	5150-5250	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11ax40	5190	37.513	5150-5250	Pass	Ant0
NVNT	11ax40	5190	37.536	5150-5250	Pass	Ant1
NVNT	11ax40	5230	37.518	5150-5250	Pass	Ant0
NVNT	11ax40	5230	37.506	5150-5250	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11ax80	5210	76.964	5150-5250	Pass	Ant0
NVNT	11ax80	5210	77.004	5150-5250	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW (MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11ax160	5250	155.842	5150-5250	Pass	Ant0
NVNT	11ax160	5250	155.930	5150-5250	Pass	Ant1

5250MHz-5350MHz(OBW)

Condition	Mode	Frequency(MHz)	99%OBW (MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11a20	5260	16.639	5250-5350	Pass	Ant0
NVNT	11a20	5260	16.620	5250-5350	Pass	Ant1
NVNT	11a20	5300	16.644	5250-5350	Pass	Ant0
NVNT	11a20	5300	16.596	5250-5350	Pass	Ant1
NVNT	11a20	5320	16.606	5250-5350	Pass	Ant0
NVNT	11a20	5320	16.580	5250-5350	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11n20	5260	17.819	5250-5350	Pass	Ant0
NVNT	11n20	5260	17.736	5250-5350	Pass	Ant1
NVNT	11n20	5300	17.827	5250-5350	Pass	Ant0
NVNT	11n20	5300	17.730	5250-5350	Pass	Ant1
NVNT	11n20	5320	17.816	5250-5350	Pass	Ant0
NVNT	11n20	5320	17.708	5250-5350	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11n40	5270	36.309	5250-5350	Pass	Ant0
NVNT	11n40	5270	36.231	5250-5350	Pass	Ant1
NVNT	11n40	5310	36.251	5250-5350	Pass	Ant0
NVNT	11n40	5310	36.193	5250-5350	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW (MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11ac20	5260	17.796	5250-5350	Pass	Ant0
NVNT	11ac20	5260	17.738	5250-5350	Pass	Ant1
NVNT	11ac20	5300	17.783	5250-5350	Pass	Ant0
NVNT	11ac20	5300	17.761	5250-5350	Pass	Ant1
NVNT	11ac20	5320	17.762	5250-5350	Pass	Ant0
NVNT	11ac20	5320	17.747	5250-5350	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11ac40	5270	36.273	5250-5350	Pass	Ant0
NVNT	11ac40	5270	36.243	5250-5350	Pass	Ant1
NVNT	11ac40	5310	36.217	5250-5350	Pass	Ant0
NVNT	11ac40	5310	36.201	5250-5350	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11ac80	5290	75.867	5250-5350	Pass	Ant0
NVNT	11ac80	5290	75.870	5250-5350	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11ac160	5250	154.620	5250-5350	Pass	Ant0
NVNT	11ac160	5250	154.819	5250-5350	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11ax20	5260	18.945	5250-5350	Pass	Ant0
NVNT	11ax20	5260	18.985	5250-5350	Pass	Ant1
NVNT	11ax20	5300	18.978	5250-5350	Pass	Ant0
NVNT	11ax20	5300	18.999	5250-5350	Pass	Ant1
NVNT	11ax20	5320	18.977	5250-5350	Pass	Ant0
NVNT	11ax20	5320	18.984	5250-5350	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11ax40	5270	37.544	5250-5350	Pass	Ant0
NVNT	11ax40	5270	37.485	5250-5350	Pass	Ant1
NVNT	11ax40	5310	37.531	5250-5350	Pass	Ant0
NVNT	11ax40	5310	37.536	5250-5350	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11ax80	5290	76.913	5250-5350	Pass	Ant0
NVNT	11ax80	5290	76.894	5250-5350	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11ax160	5250	155.322	5250-5350	Pass	Ant0
NVNT	11ax160	5250	155.481	5250-5350	Pass	Ant1

5470MHz-5725MHz(OBW)

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11a20	5500	16.652	5470-5725	Pass	Ant0
NVNT	11a20	5500	16.520	5470-5725	Pass	Ant1
NVNT	11a20	5580	16.646	5470-5725	Pass	Ant0
NVNT	11a20	5580	16.502	5470-5725	Pass	Ant1
NVNT	11a20	5700	16.641	5470-5725	Pass	Ant0
NVNT	11a20	5700	16.500	5470-5725	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11n20	5500	17.791	5470-5725	Pass	Ant0
NVNT	11n20	5500	17.745	5470-5725	Pass	Ant1
NVNT	11n20	5580	17.751	5470-5725	Pass	Ant0
NVNT	11n20	5580	17.743	5470-5725	Pass	Ant1
NVNT	11n20	5700	17.741	5470-5725	Pass	Ant0
NVNT	11n20	5700	17.727	5470-5725	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11n40	5510	36.181	5470-5725	Pass	Ant0
NVNT	11n40	5510	36.271	5470-5725	Pass	Ant1
NVNT	11n40	5550	36.204	5470-5725	Pass	Ant0
NVNT	11n40	5550	36.276	5470-5725	Pass	Ant1
NVNT	11n40	5670	36.191	5470-5725	Pass	Ant0
NVNT	11n40	5670	36.260	5470-5725	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11ac20	5500	17.768	5470-5725	Pass	Ant0
NVNT	11ac20	5500	17.747	5470-5725	Pass	Ant1
NVNT	11ac20	5580	17.747	5470-5725	Pass	Ant0
NVNT	11ac20	5580	17.735	5470-5725	Pass	Ant1
NVNT	11ac20	5700	17.754	5470-5725	Pass	Ant0
NVNT	11ac20	5700	17.726	5470-5725	Pass	Ant1

Condition	Mode	Frequency(MHz)	99%OBW(MHz)	Frequency Range(MHz)	Result	Remark
NVNT	11ac40	5510	36.300	5470-5725	Pass	Ant0
NVNT	11ac40	5510	36.287	5470-5725	Pass	Ant1
NVNT	11ac40	5550	36.298	5470-5725	Pass	Ant0
NVNT	11ac40	5550	36.246	5470-5725	Pass	Ant1
NVNT	11ac40	5670	36.284	5470-5725	Pass	Ant0
NVNT	11ac40	5670	36.304	5470-5725	Pass	Ant1