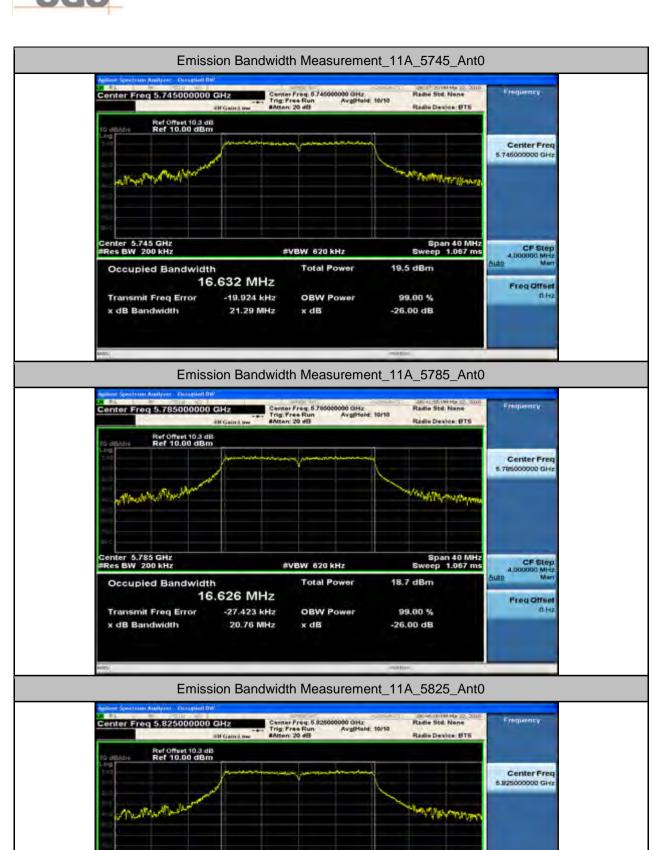


Appendix A for SHEM180200133501

1.Emission Bandwidth Measurement

Test Mode	Toot Channal	EBW	Limit[MLI=]	\/o.rd;ot		
rest Mode	Test Channel	ANT0	ANT1	Limit[MHz]	Verdict	
11A	5745	21.29	21.31		PASS	
11A	5785	20.76	21.36		PASS	
11A	5825	20.66	21.36		PASS	
11N20	5745	23.47	21.83		PASS	
11N20	5785	21.46	22.09		PASS	
11N20	5825	21.68	21.87		PASS	
11N40	5755	43.32	43.50		PASS	
11N40	5795	43.23	43.39		PASS	
11AC20	5745	21.55	22.36		PASS	
11AC20	5785	21.32	22.40		PASS	
11AC20	5825	21.64	22.34		PASS	
11AC40	5755	42.83	42.90		PASS	
11AC40	5795	42.68	43.12		PASS	
11AC80	5775	82.39	84.93		PASS	



#VBW 620 kHz

x dB

OBW Power

Occupied Bandwidth

Transmit Freq Error

x dB Bandwidth

16.599 MHz

-31.932 kHz

20.66 MHz

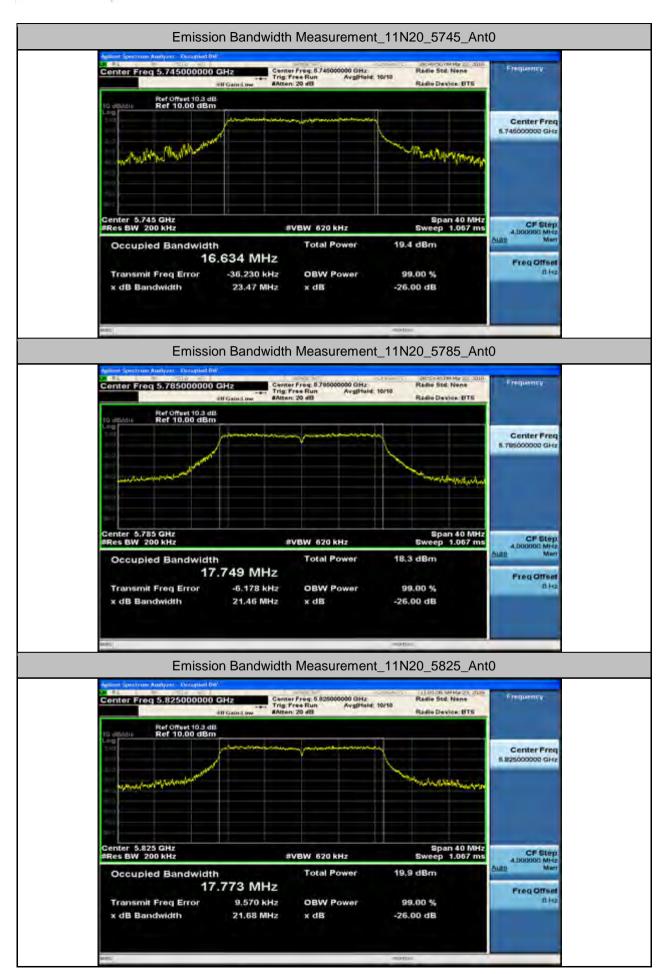
18,5 dBm

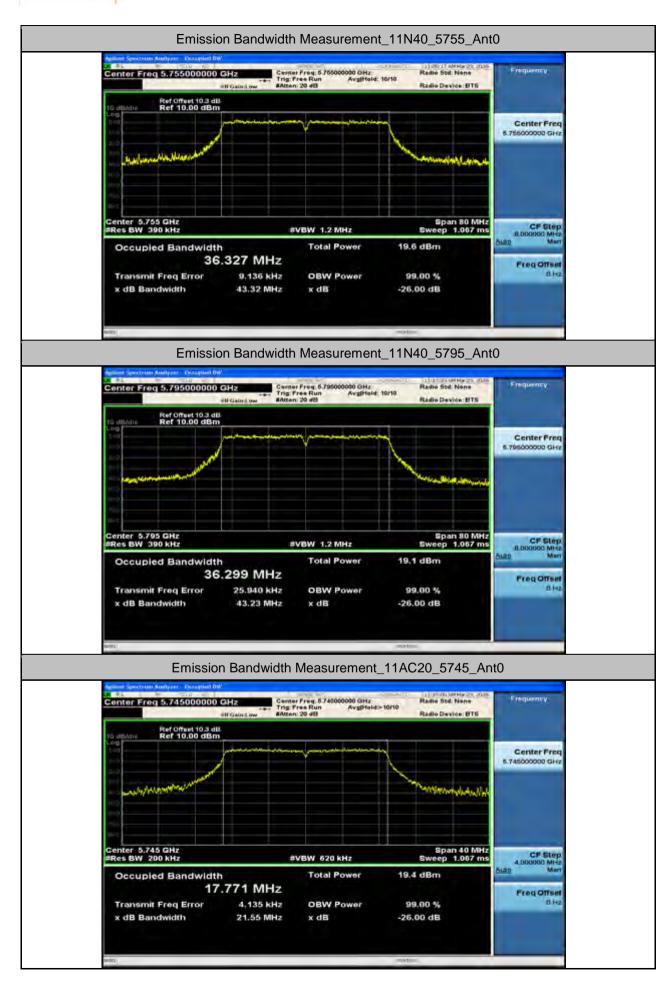
99.00 %

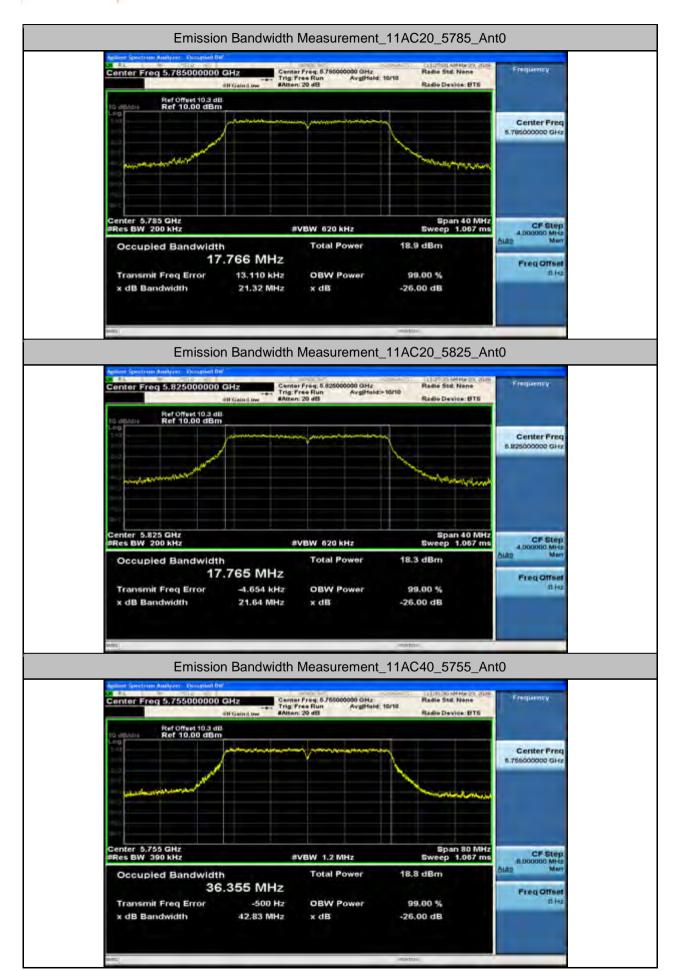
-26.00 dB

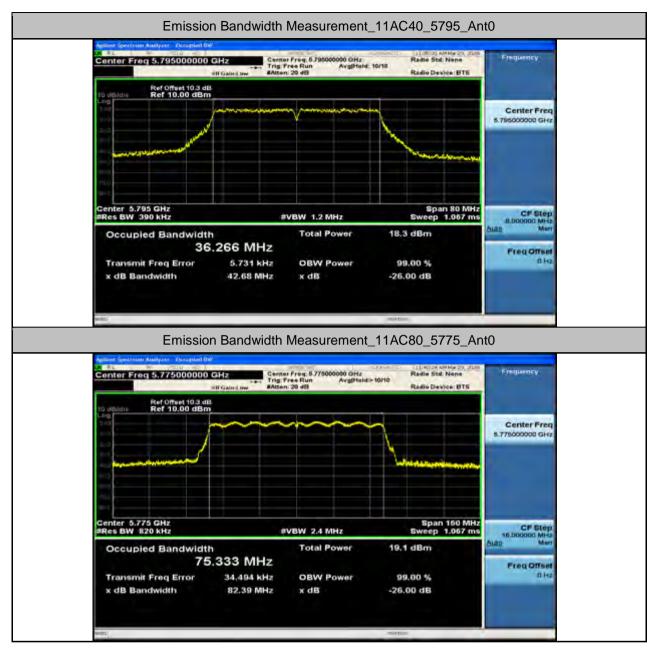
CF Step. 4.000000 MHz

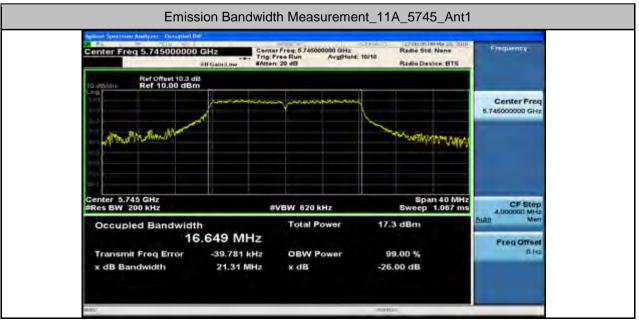
Freq Offset

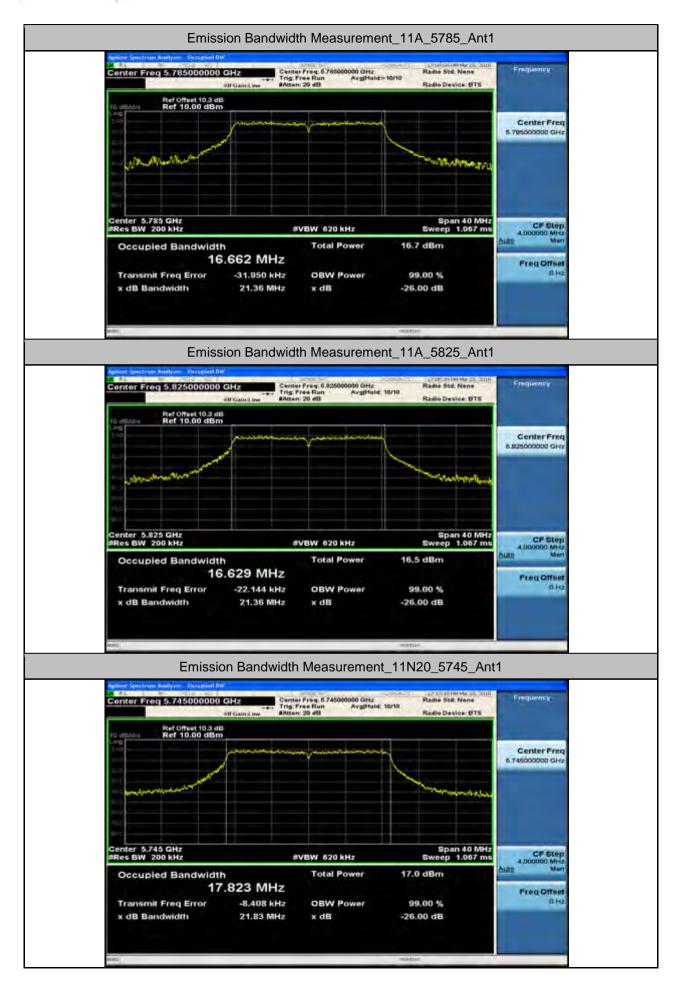


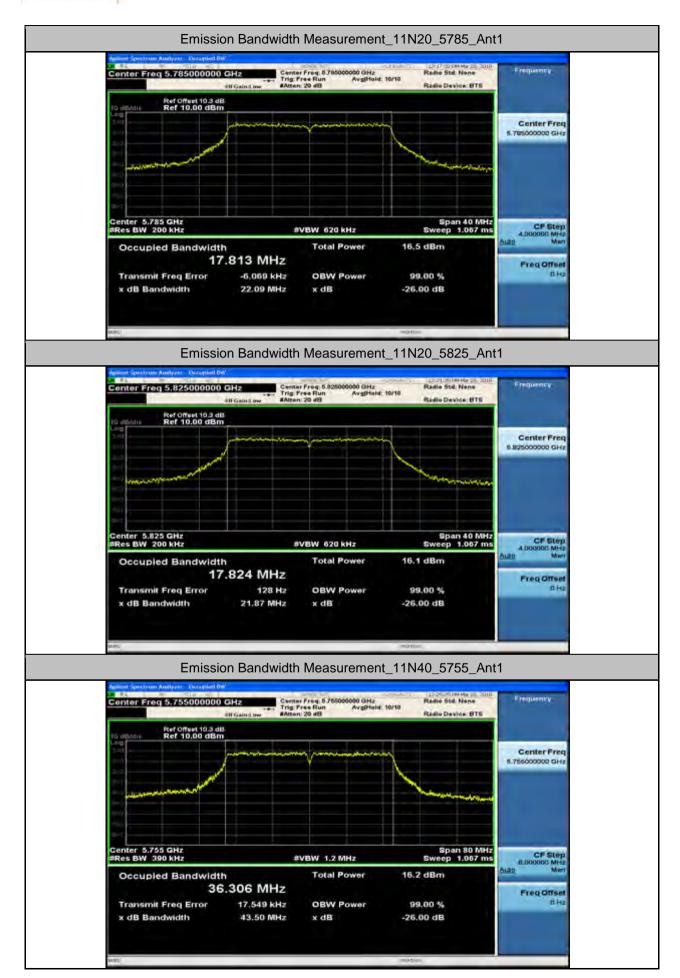


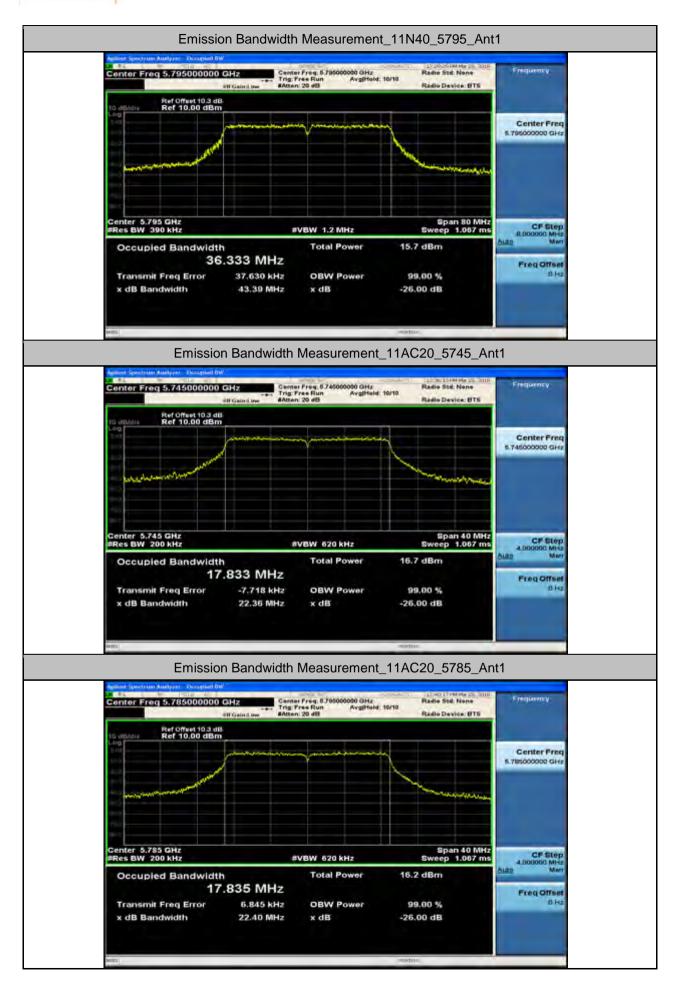


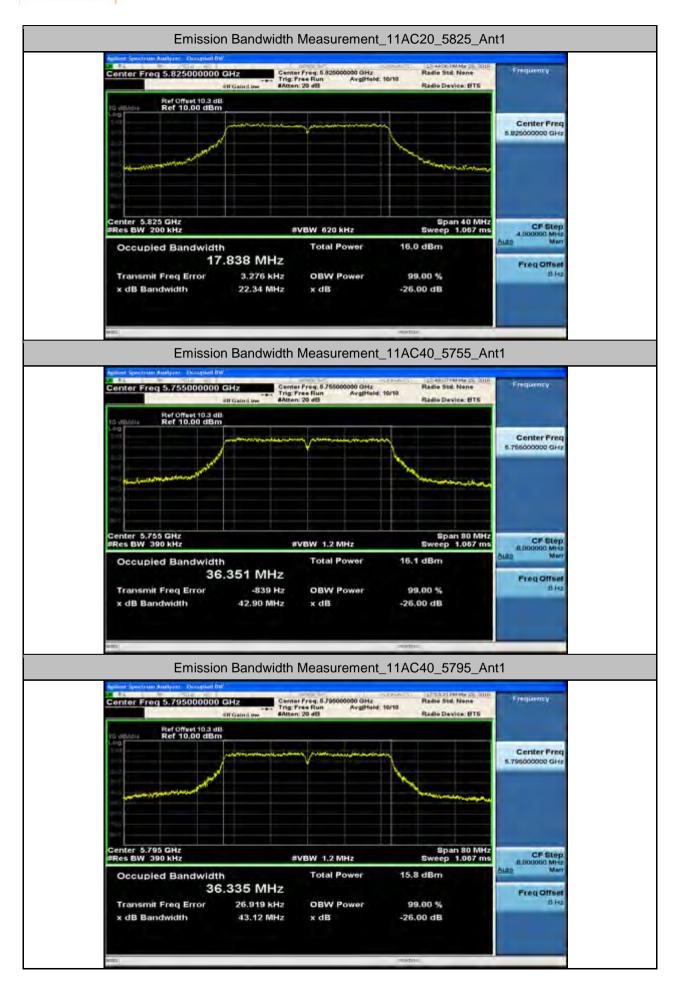


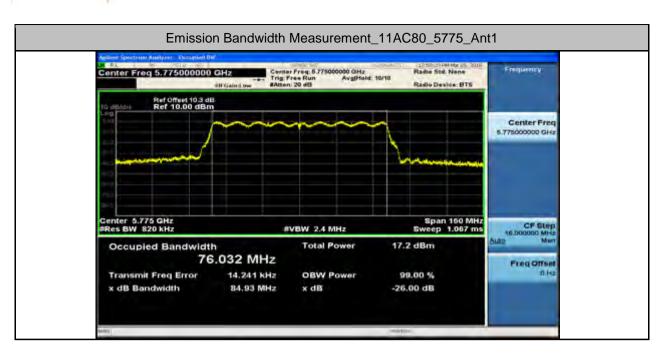








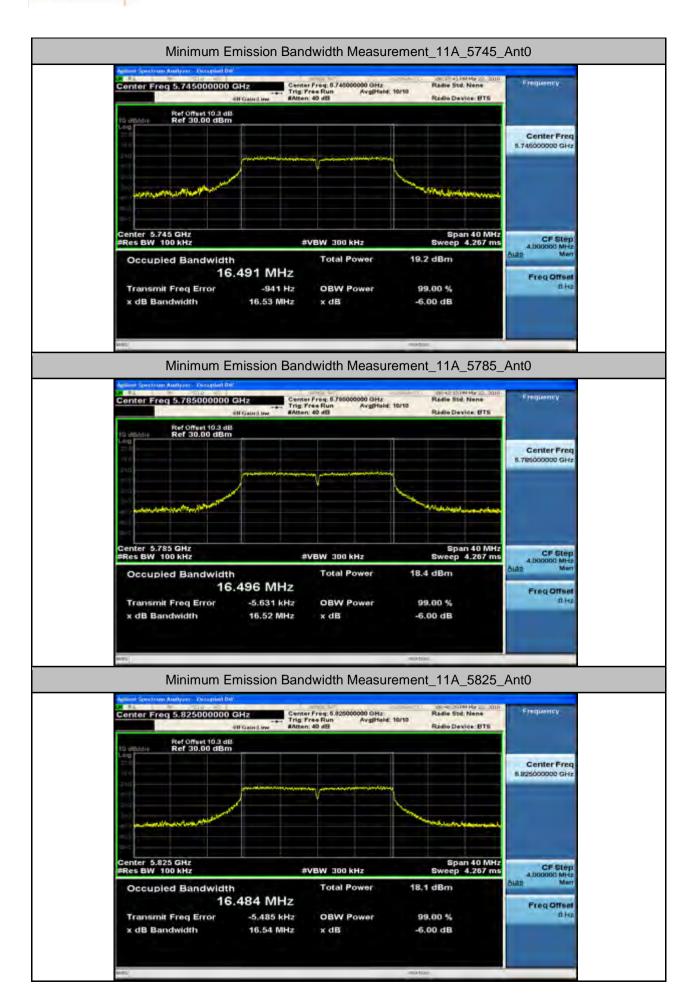


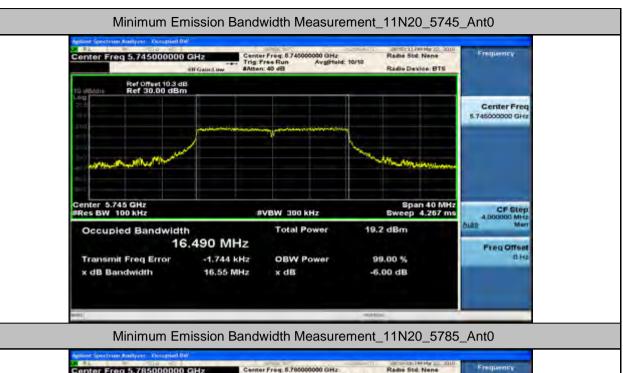


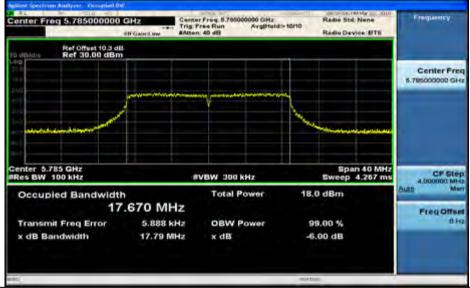


2.Minimum Emission Bandwidth Measurement

Test Mode	Test Channel	EBW[MHz] ANT0	EBW[MHz] ANT1	Limit[MHz]	Verdict
11A	5745	16.53	16.55		PASS
11A	5785	16.52	16.56		PASS
11A	5825	16.54	16.55		PASS
11N20	5745	16.55	17.76		PASS
11N20	5785	17.79	17.79		PASS
11N20	5825	17.77	17.76		PASS
11N40	5755	36.45	36.49		PASS
11N40	5795	36.48	36.45		PASS
11AC20	5745	17.75	17.74		PASS
11AC20	5785	17.77	17.80		PASS
11AC20	5825	17.79	17.82		PASS
11AC40	5755	36.44	36.45		PASS
11AC40	5795	36.45	36.50		PASS
11AC80	5775	76.09	76.43		PASS

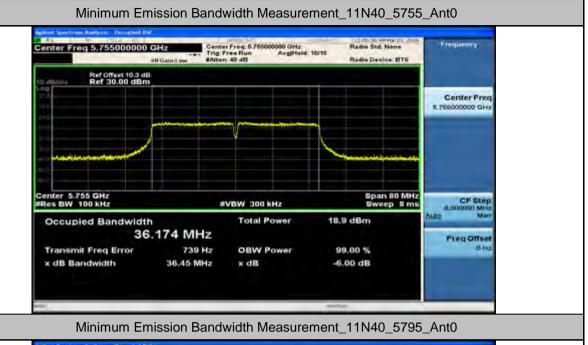


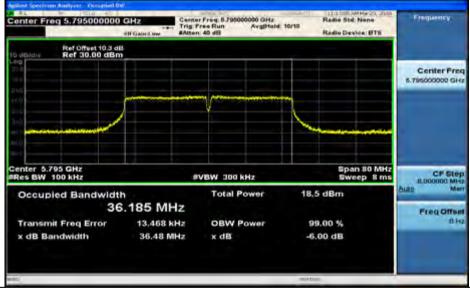




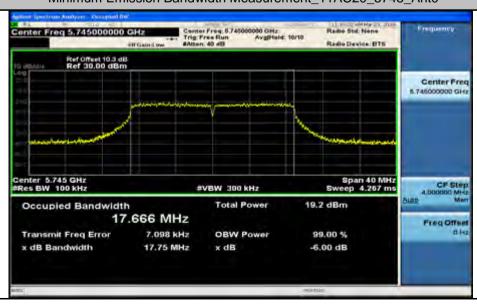
Minimum Emission Bandwidth Measurement_11N20_5825_Ant0

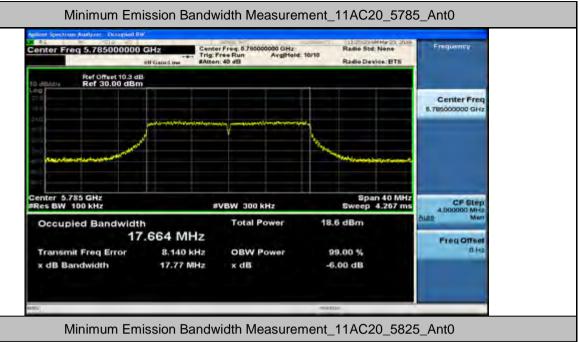






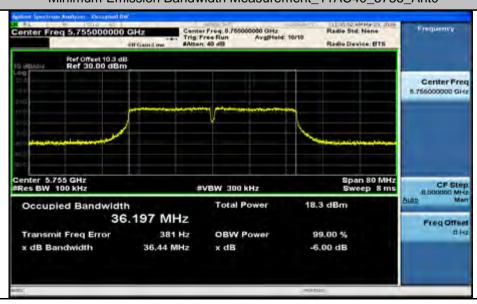
Minimum Emission Bandwidth Measurement_11AC20_5745_Ant0

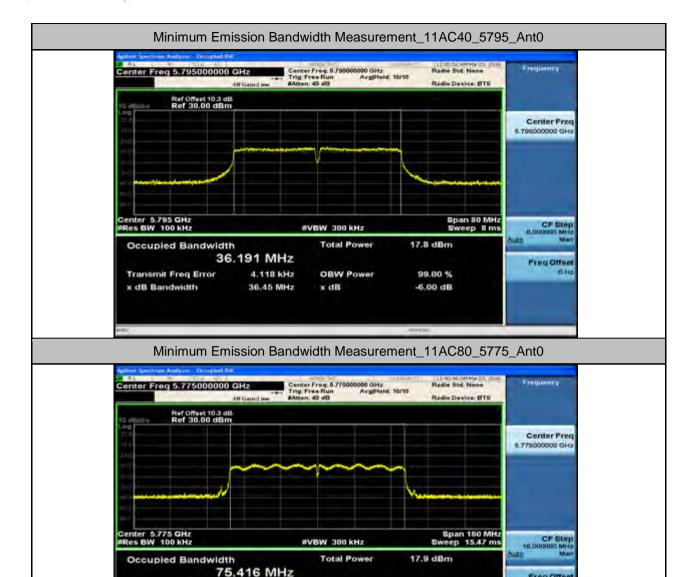


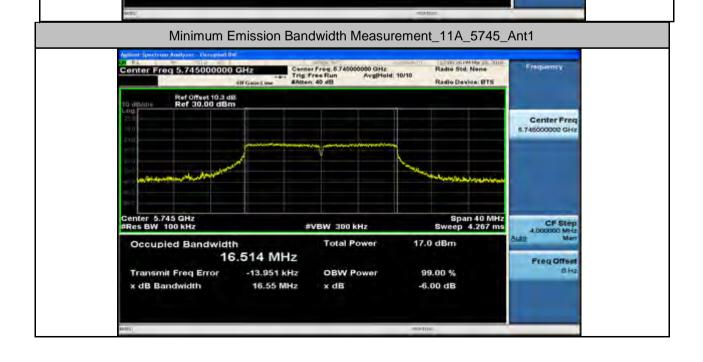




Minimum Emission Bandwidth Measurement_11AC40_5755_Ant0







OBW Power

x dB

99.00 %

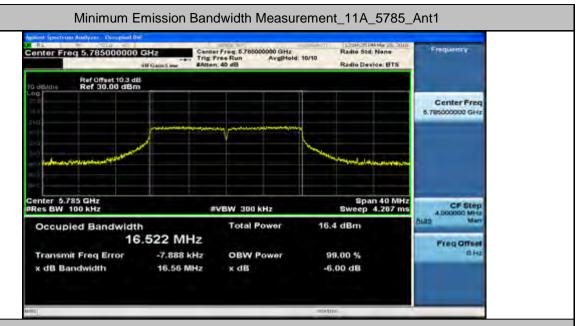
-6.00 dB

-28.168 kHz

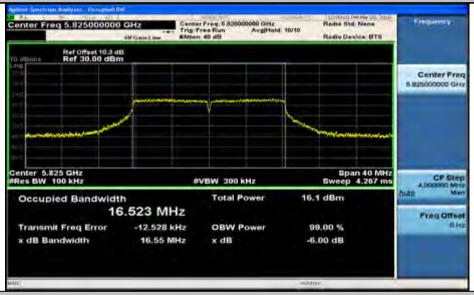
76.09 MHz

Transmit Freg Error x dB Bandwidth

Freq Offse

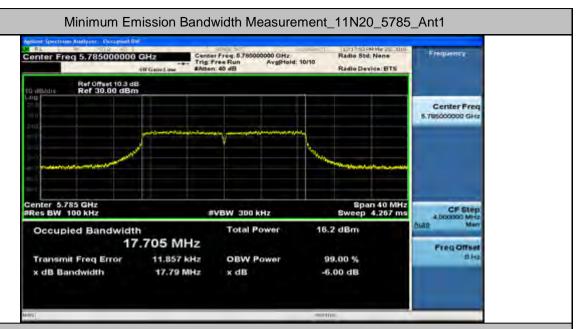


Minimum Emission Bandwidth Measurement 11A 5825 Ant1

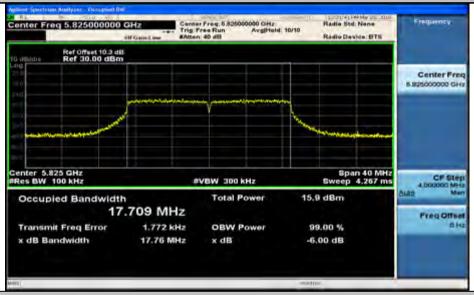


Minimum Emission Bandwidth Measurement_11N20_5745_Ant1

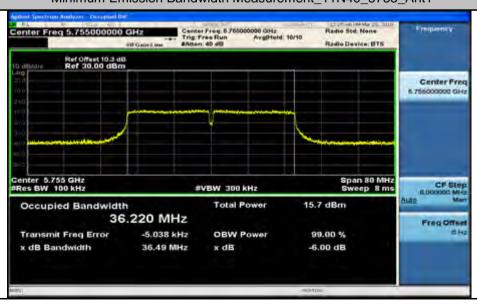


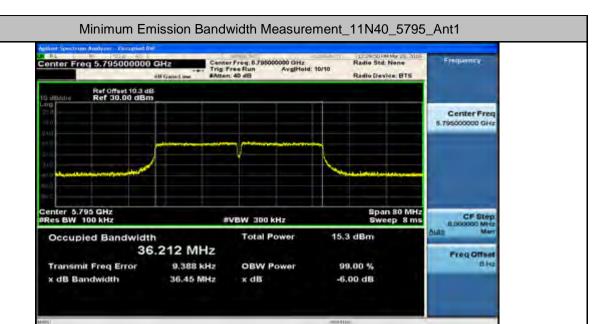


Minimum Emission Bandwidth Measurement_11N20_5825_Ant1

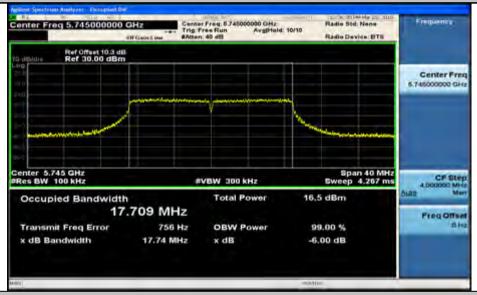


Minimum Emission Bandwidth Measurement_11N40_5755_Ant1



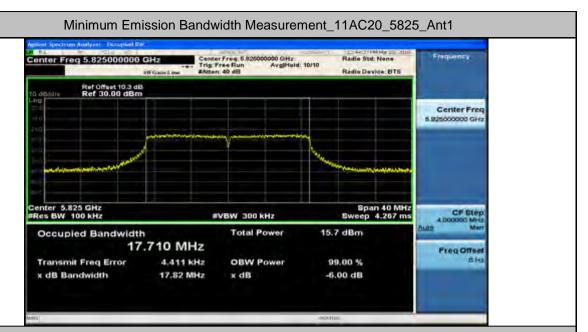


Minimum Emission Bandwidth Measurement 11AC20 5745 Ant1

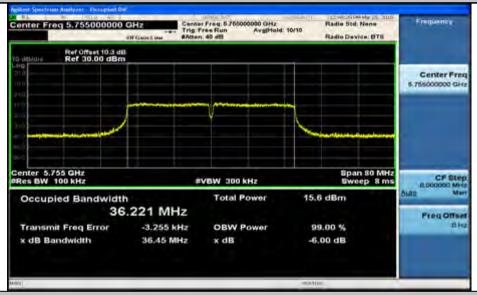


Minimum Emission Bandwidth Measurement_11AC20_5785_Ant1

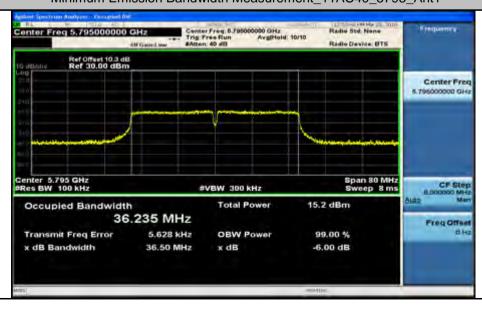


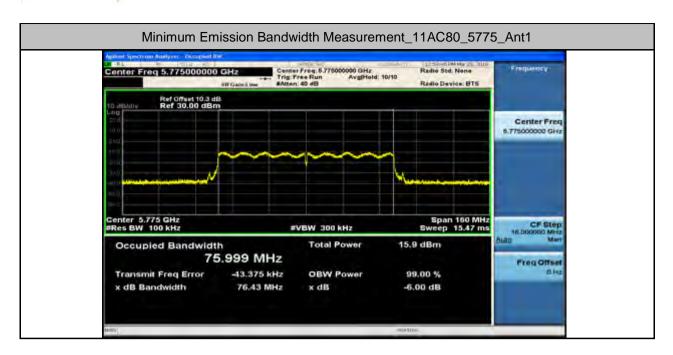


Minimum Emission Bandwidth Measurement_11AC40_5755_Ant1



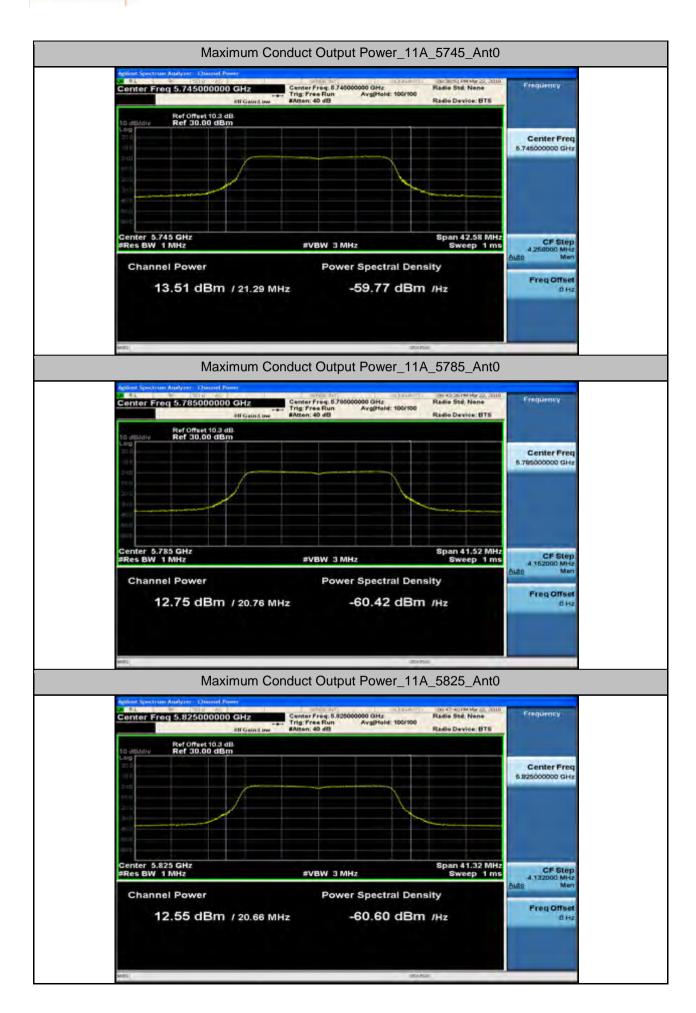
Minimum Emission Bandwidth Measurement_11AC40_5795_Ant1

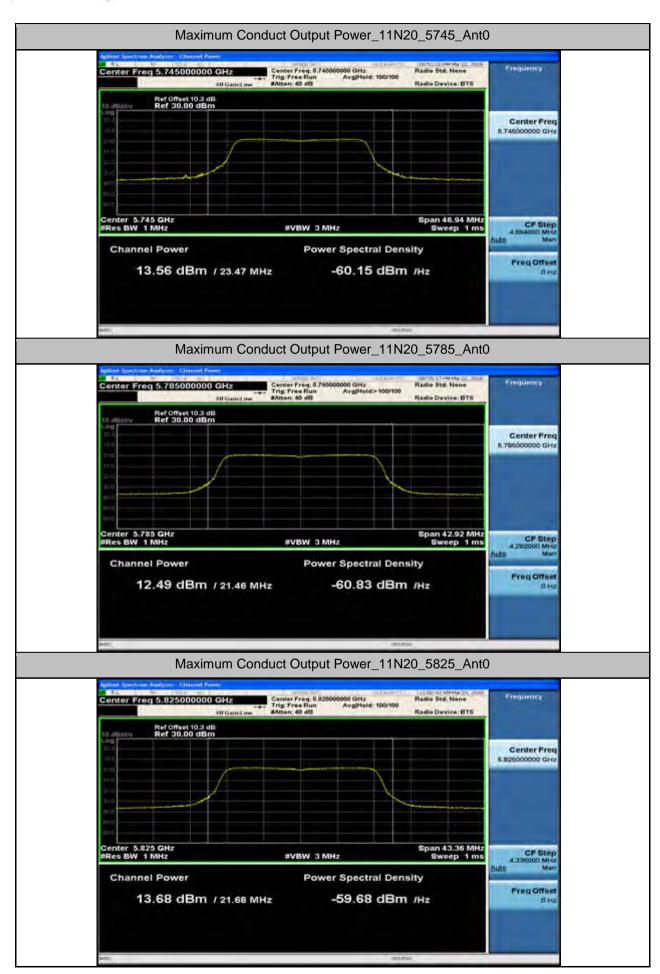




3.Maximum Conduct Output Power

Test Mode	Test Channel	Level [dBm]		10log(1/x) Factor [dB]		Power [dBm]		Limit	Verdict
		ANT0	ANT1	ANT0	ANT1	ANT0	ANT1	[dBm]	
11A	5745	13.51	11.39	0.00	0.00	13.51	11.39	30.00	PASS
11A	5785	12.75	10.84	0.00	0.00	12.75	10.84	30.00	PASS
11A	5825	12.55	10.58	0.00	0.00	12.55	10.58	30.00	PASS
11N20	5745	13.56	11.2	0.00	0.00	13.56	11.20	30.00	PASS
11N20	5785	12.49	10.64	0.00	0.00	12.49	10.64	30.00	PASS
11N20	5825	13.68	10.36	0.00	0.00	13.68	10.36	30.00	PASS
11N40	5755	13.53	10.34	0.00	0.00	13.53	10.34	30.00	PASS
11N40	5795	13.15	10.02	0.00	0.00	13.15	10.02	30.00	PASS
11AC20	5745	13.6	11.08	0.00	0.00	13.60	11.08	30.00	PASS
11AC20	5785	13.03	10.5	0.00	0.00	13.03	10.50	30.00	PASS
11AC20	5825	12.48	10.32	0.00	0.00	12.48	10.32	30.00	PASS
11AC40	5755	12.79	10.24	0.00	0.00	12.79	10.24	30.00	PASS
11AC40	5795	12.45	9.92	0.00	0.00	12.45	9.92	30.00	PASS
11AC80	5775	12.6	10.67	0.00	0.00	12.60	10.67	30.00	PASS



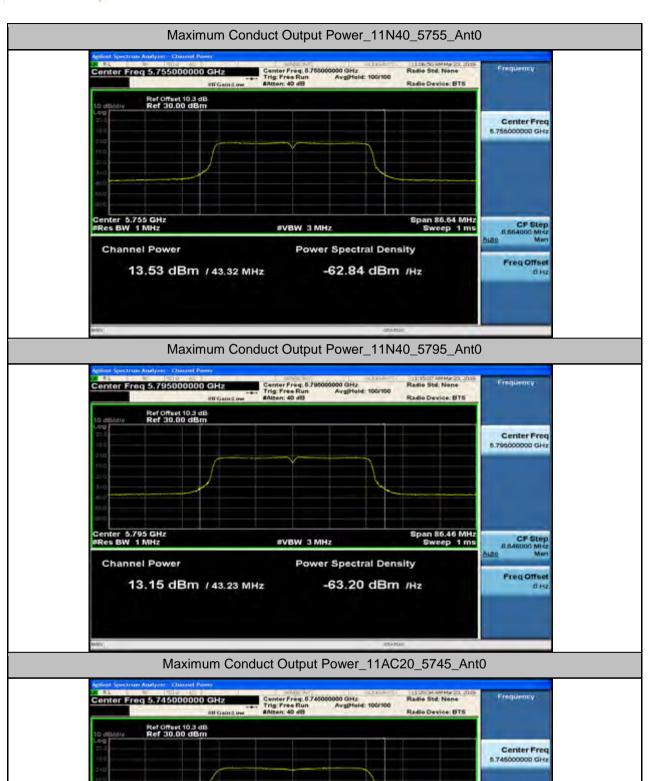


Center 5.745 GHz #Res BW 1 MHz

Channel Power

13.60 dBm / 21.55 MHz

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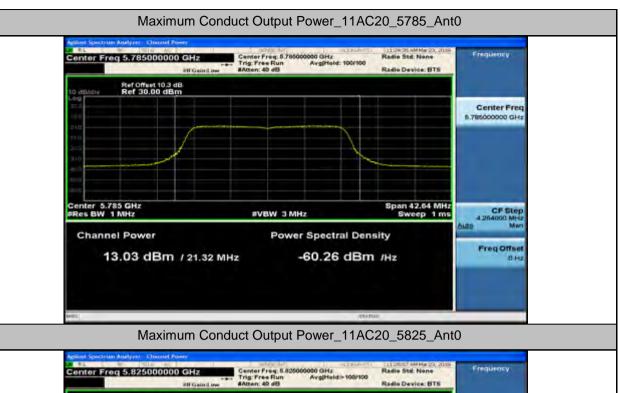
#VBW 3 MHz

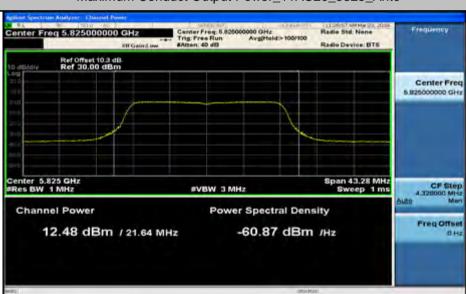
Power Spectral Density

-59.73 dBm /Hz

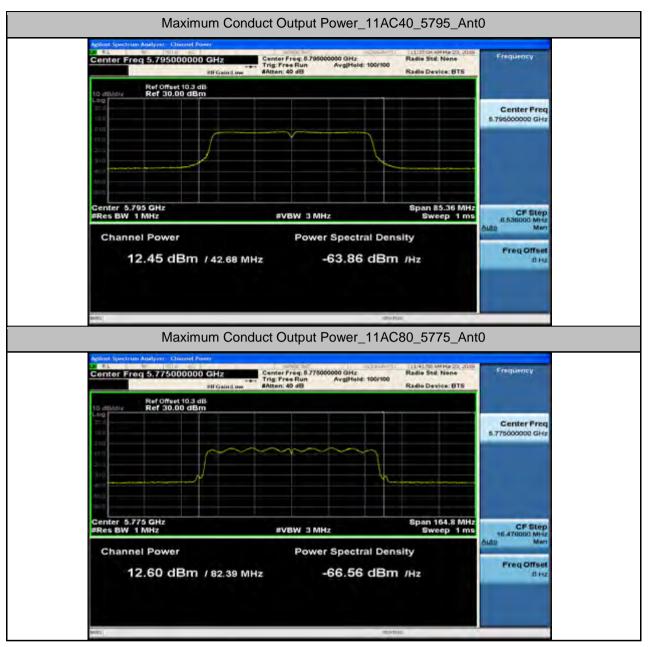
Span 43.1 MHz Sweep 1 ms

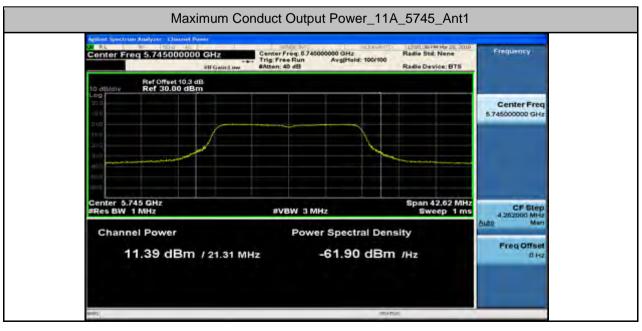
Freq Offse

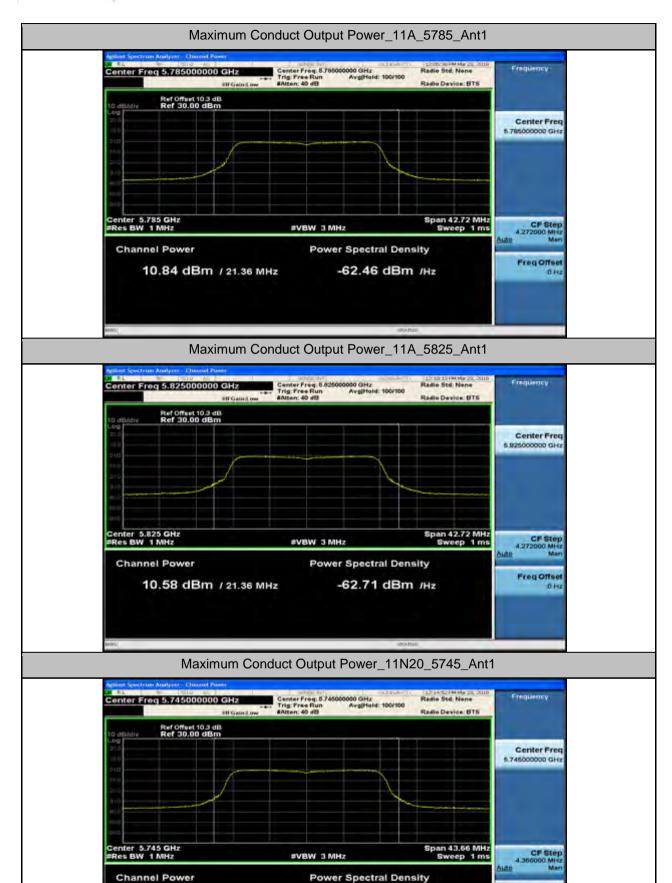








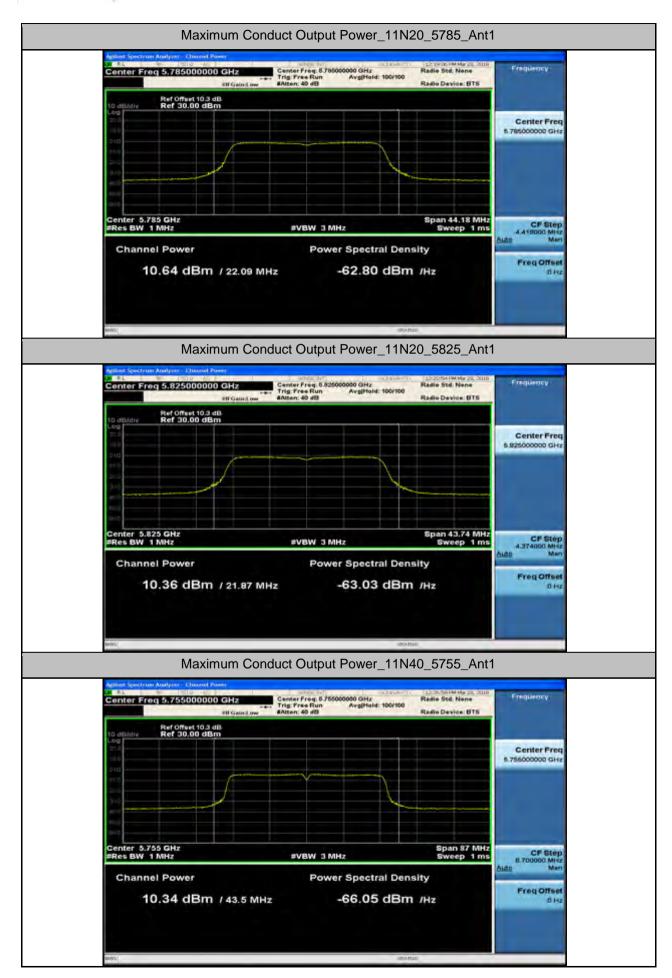


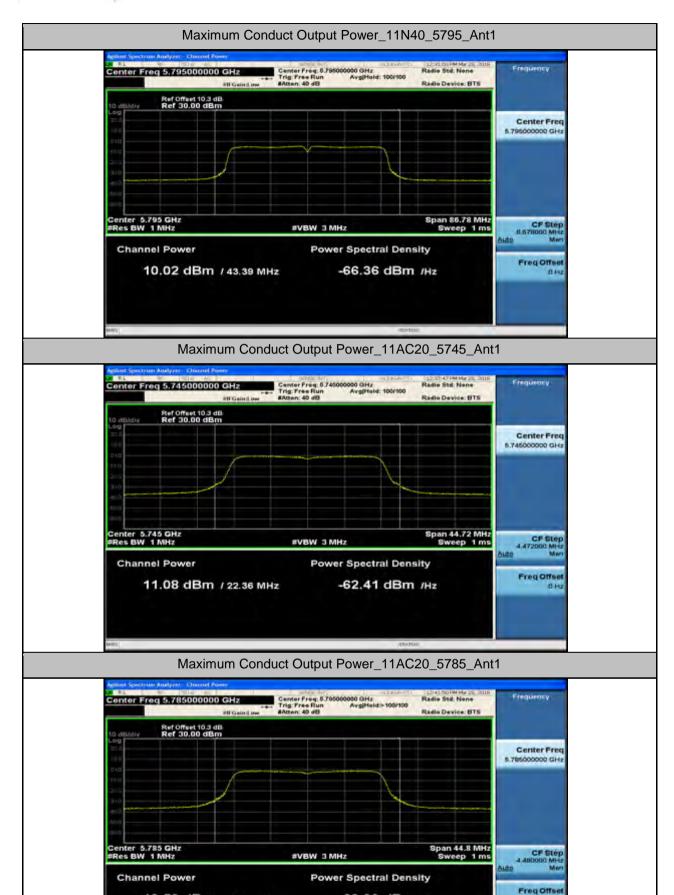


-62.19 dBm /Hz

11.20 dBm / 21.83 MHz

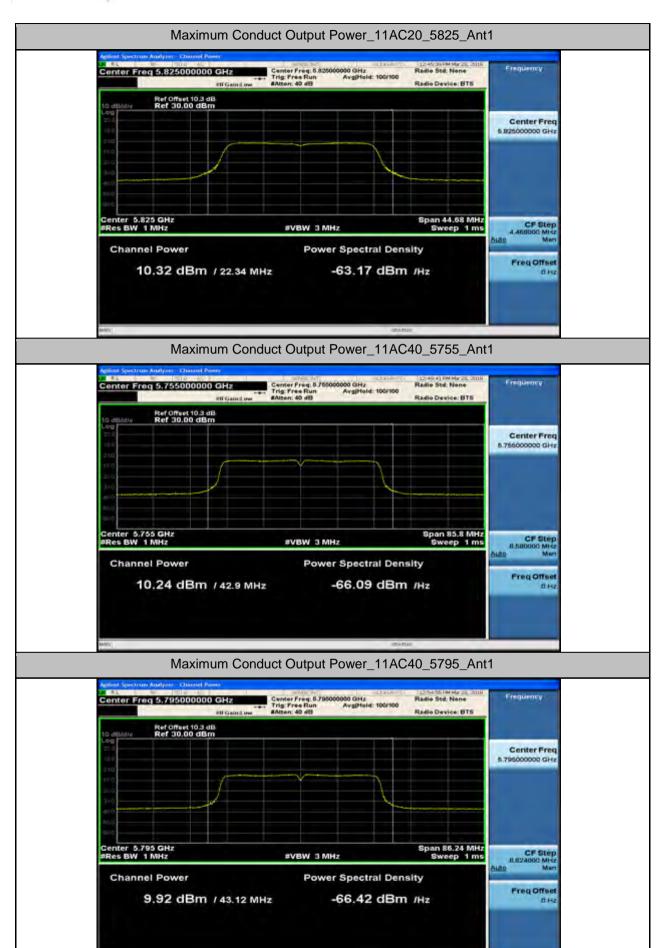
Freq Offset

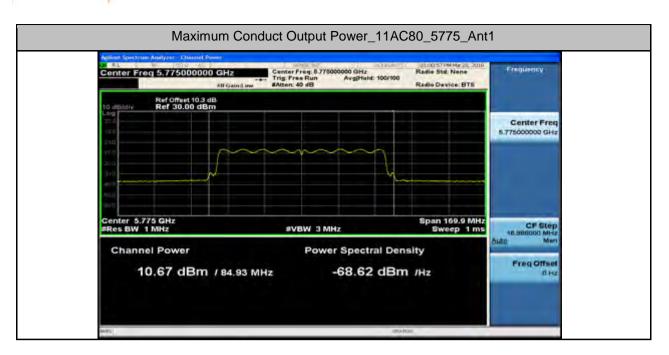




-63.00 dBm /Hz

10.50 dBm / 22.4 MHz







4.Maximum Power Spectral Density

Test Test	Level [dBm/500kHz]		10log(1/x) Factor[dB]		10log(500kHz/RBW) Factor [dB]		PSD [dBm/500kHz]		Limit	Verdict	
Mode	Channel	ANT0	ANT1	ANT0	ANT1	ANT0	ANT1	ANT0	ANT1	[dBm/500kHz]	
11A	5745	-2.78	-4.89	0.00	0.00	2.22	2.22	-0.56	-2.67	17.00	PASS
11A	5785	-3.35	-5.25	0.00	0.00	2.22	2.22	-1.13	-3.03	17.00	PASS
11A	5825	-3.67	-5.46	0.00	0.00	2.22	2.22	-1.46	-3.24	17.00	PASS
11N20	5745	-2.77	-5.11	0.00	0.00	2.22	2.22	-0.56	-2.89	17.00	PASS
11N20	5785	-3.75	-5.52	0.00	0.00	2.22	2.22	-1.53	-3.30	17.00	PASS
11N20	5825	-2.80	-6.08	0.00	0.00	2.22	2.22	-0.58	-3.86	17.00	PASS
11N40	5755	-6.25	-9.21	0.00	0.00	2.22	2.22	-4.03	-6.99	17.00	PASS
11N40	5795	-6.44	-9.42	0.00	0.00	2.22	2.22	-4.22	-7.20	17.00	PASS
11AC20	5745	-2.70	-5.28	0.00	0.00	2.22	2.22	-0.48	-3.06	17.00	PASS
11AC20	5785	-3.47	-5.87	0.00	0.00	2.22	2.22	-1.25	-3.65	17.00	PASS
11AC20	5825	-3.87	-6.02	0.00	0.00	2.22	2.22	-1.66	-3.80	17.00	PASS
11AC40	5755	-6.87	-9.27	0.00	0.00	2.22	2.22	-4.65	-7.05	17.00	PASS
11AC40	5795	-7.18	-9.70	0.00	0.00	2.22	2.22	-4.97	-7.48	17.00	PASS
11AC80	5775	-9.25	-11.68	0.00	0.00	2.22	2.22	-7.03	-9.46	17.00	PASS



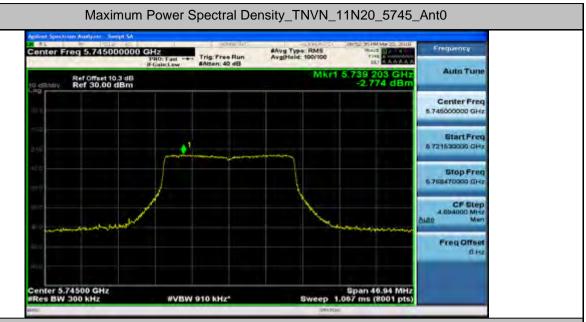


Maximum Power Spectral Density_TNVN_11A_5785_Ant0



Maximum Power Spectral Density_TNVN_11A_5825_Ant0





Maximum Power Spectral Density_TNVN_11N20_5785_Ant0



Maximum Power Spectral Density_TNVN_11N20_5825_Ant0



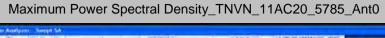


Maximum Power Spectral Density_TNVN_11N40_5795_Ant0



Maximum Power Spectral Density_TNVN_11AC20_5745_Ant0





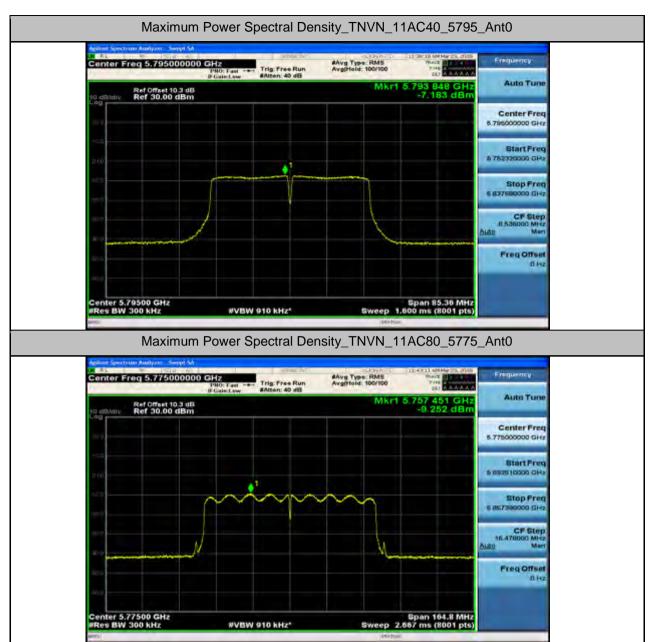


Maximum Power Spectral Density_TNVN_11AC20_5825_Ant0

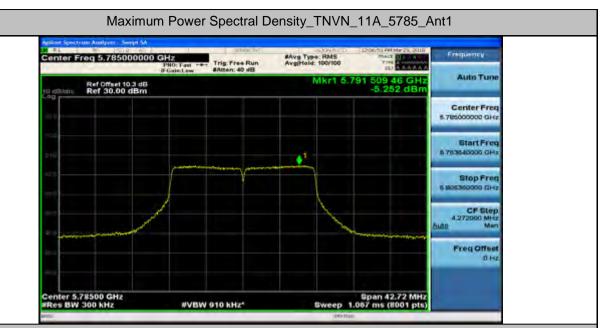


Maximum Power Spectral Density_TNVN_11AC40_5755_Ant0









Maximum Power Spectral Density_TNVN_11A_5825_Ant1



Maximum Power Spectral Density_TNVN_11N20_5745_Ant1



Center 5.78500 GHz

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Maximum Power Spectral Density_TNVN_11N20_5825_Ant1

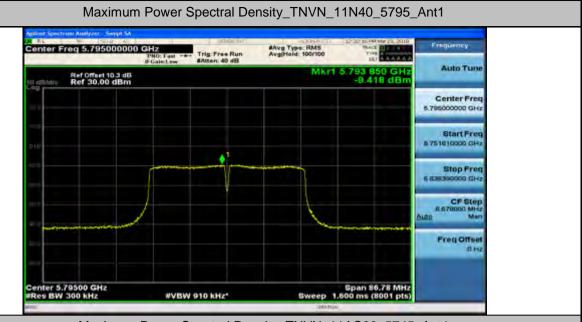
WVBW 910 kHz*

Span 44.18 MHz Sweep 1.067 ms (8001 pts)



Maximum Power Spectral Density_TNVN_11N40_5755_Ant1



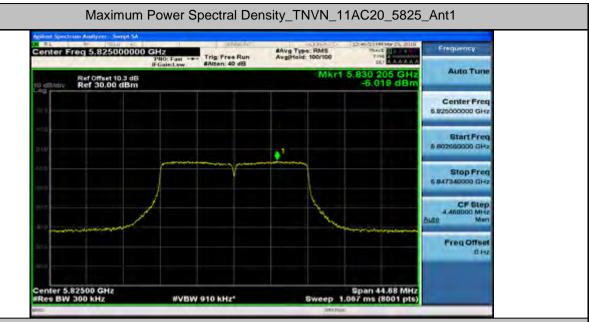


Maximum Power Spectral Density_TNVN_11AC20_5745_Ant1



Maximum Power Spectral Density_TNVN_11AC20_5785_Ant1



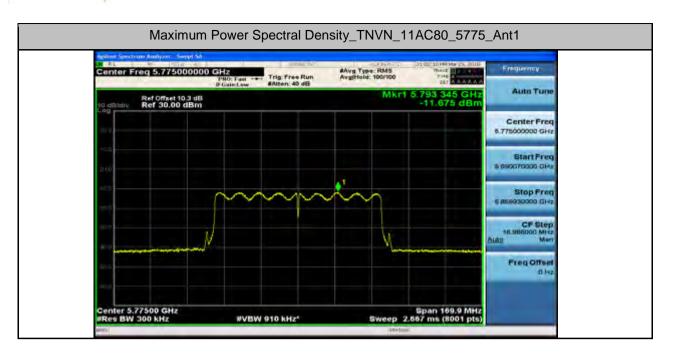


Maximum Power Spectral Density_TNVN_11AC40_5755_Ant1



Maximum Power Spectral Density_TNVN_11AC40_5795_Ant1





5. Frequency Stability

Band	Test Conditions		Operation	Test Frequency (MHz)		Freq. Dev. (MHz)		Limit	_
	Volt (V DC)	Temp (°C)	Frequency (MHz)	ANT0	ANT1	ANT0	ANT1	(GHz)	Result
Band U-NII 1	Normal(24)	Extreme(-20)	5725	5725.0542	5725.0525	0.0542	0.0525	5.725- 5.850	Pass
		Extreme(-10)		5725.0715	5725.0734	0.0715	0.0734		Pass
		Extreme(0)		5725.0281	5725.0251	0.0281	0.0251		Pass
		Extreme(+10)		5725.0435	5725.0465	0.0435	0.0465		Pass
		Extreme(+20)		5725.0746	5725.0753	0.0746	0.0753		Pass
		Extreme(+30)		5725.0652	5725.0602	0.0652	0.0602		Pass
		Extreme(+40)		5725.0541	5725.0743	0.0541	0.0743		Pass
		Extreme(+55)		5725.0511	5725.0522	0.0511	0.0522		Pass
	Extreme(9)	Norma(+20)		5725.0426	5725.0418	0.0426	0.0418		Pass
	Extreme(32)			5725.0523	5725.0541	0.0523	0.0541		Pass
	Normal(24)	Extreme(-20)	5850	5850.0217	5850.0264	0.0271	0.0264		Pass
		Extreme(-10)		5850.0462	5850.0434	0.0462	0.0434		Pass
		Extreme(0)		5850.0254	5850.0234	0.0254	0.0234		Pass
		Extreme(+10)		5850.0315	5850.0405	0.0315	0.0405		Pass
		Extreme(+20)		5850.0154	5850.0175	0.0154	0.0175		Pass
		Extreme(+30)		5850.0237	5850.0242	0.0237	0.0242		Pass
		Extreme(+40)		5850.0326	5850.0331	0.0326	0.0331		Pass
		Extreme(+55)		5850.0475	5850.0424	0.0475	0.0424		Pass
	Extreme(9)	Norma(20)		5850.0264	5850.0220	0.0264	0.0220		Pass
	Extreme(32)	Norma(20)		5850.0254	5850.0241	0.0254	0.0241		Pass

Remark: Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain inband when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.



6.Duty Cycle

Toot Mode	Test Channel	Duty Cy	/cle[%]	10log(1/x) Factor[dB]		
Test Mode		ANT0	ANT1	ANT0	ANT1	
11A	5745	100.00	100.00	0.00	0.00	
11A	5785	100.00	100.00	0.00	0.00	
11A	5825	100.00	100.00	0.00	0.00	
11N20	5745	100.00	100.00	0.00	0.00	
11N20	5785	100.00	100.00	0.00	0.00	
11N20	5825	100.00	100.00	0.00	0.00	
11N40	5755	100.00	100.00	0.00	0.00	
11N40	5795	100.00	100.00	0.00	0.00	
11AC20	5745	100.00	100.00	0.00	0.00	
11AC20	5785	100.00	100.00	0.00	0.00	
11AC20	5825	100.00	100.00	0.00	0.00	
11AC40	5755	100.00	100.00	0.00	0.00	
11AC40	5795	100.00	100.00	0.00	0.00	
11AC80	5775	100.00	100.00	0.00	0.00	

