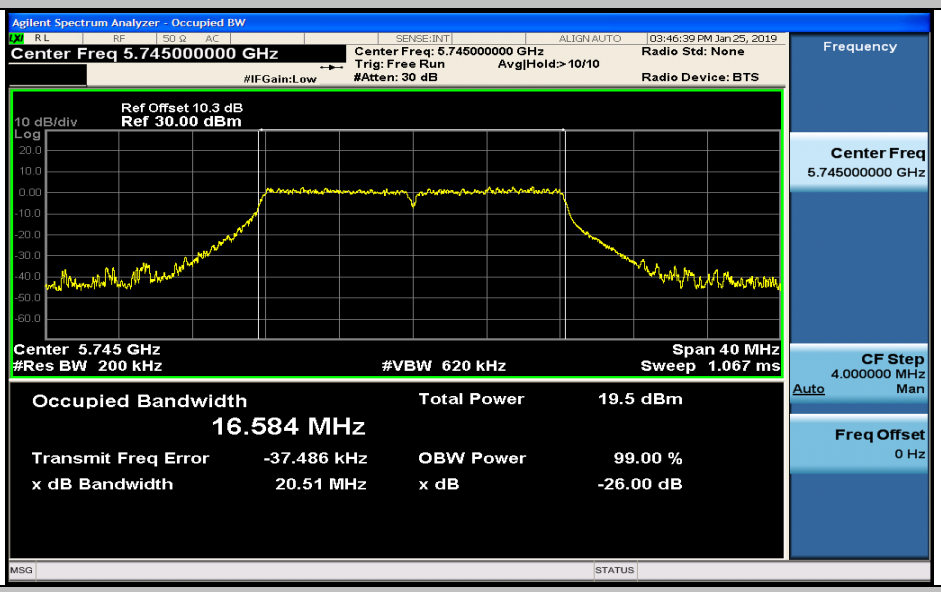
Appendix B for SHEM190101017002

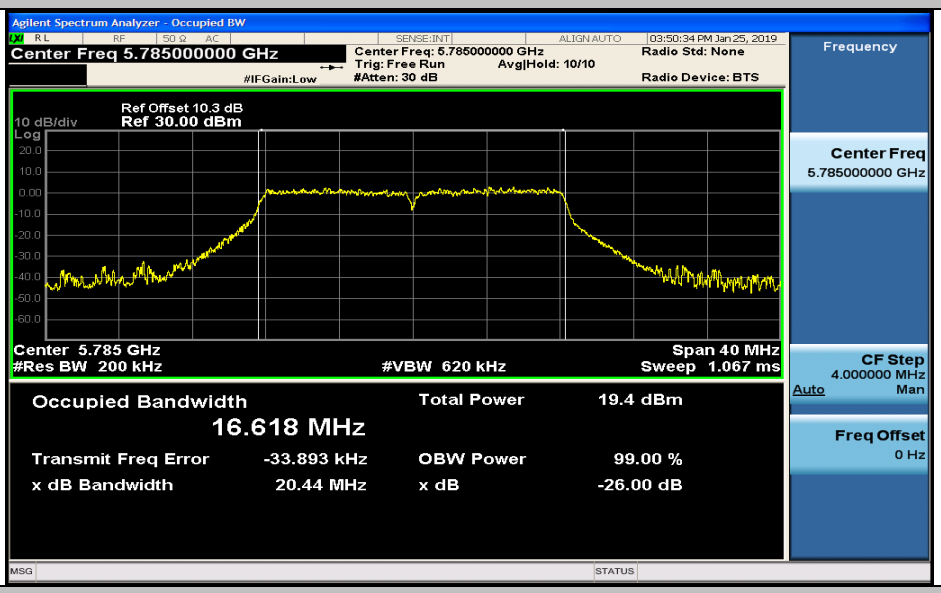
1.(26dB)Emission Bandwidth Measurement

Test Mode	Test Channel	Ant	(26dB)EBW[MHz]	Limit[MHz]	Verdict
11A	5745	Ant1	20.51	---	PASS
11A	5785	Ant1	20.44	---	PASS
11A	5825	Ant1	20.49	---	PASS
11N20	5745	Ant1	21.32	---	PASS
11N20	5785	Ant1	21.41	---	PASS
11N20	5825	Ant1	21.24	---	PASS
11N40	5755	Ant1	42.93	---	PASS
11N40	5795	Ant1	42.87	---	PASS
11AC20	5745	Ant1	21.31	---	PASS
11AC20	5785	Ant1	21.50	---	PASS
11AC20	5825	Ant1	21.46	---	PASS
11AC40	5755	Ant1	42.57	---	PASS
11AC40	5795	Ant1	42.96	---	PASS
11AC80	5775	Ant1	81.26	---	PASS

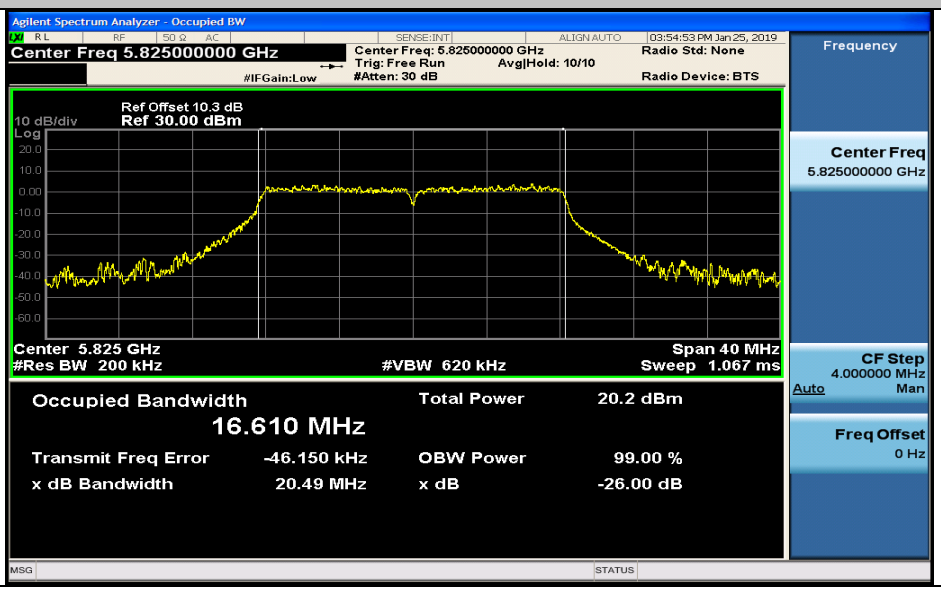
(26dB)Emission Bandwidth Measurement_11A_5745_Ant1



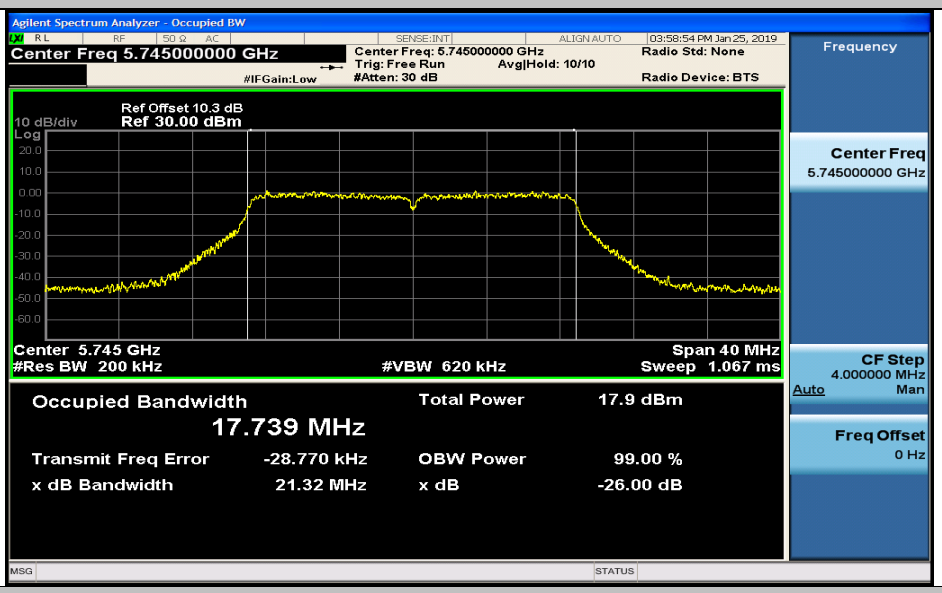
(26dB)Emission Bandwidth Measurement_11A_5785_Ant1



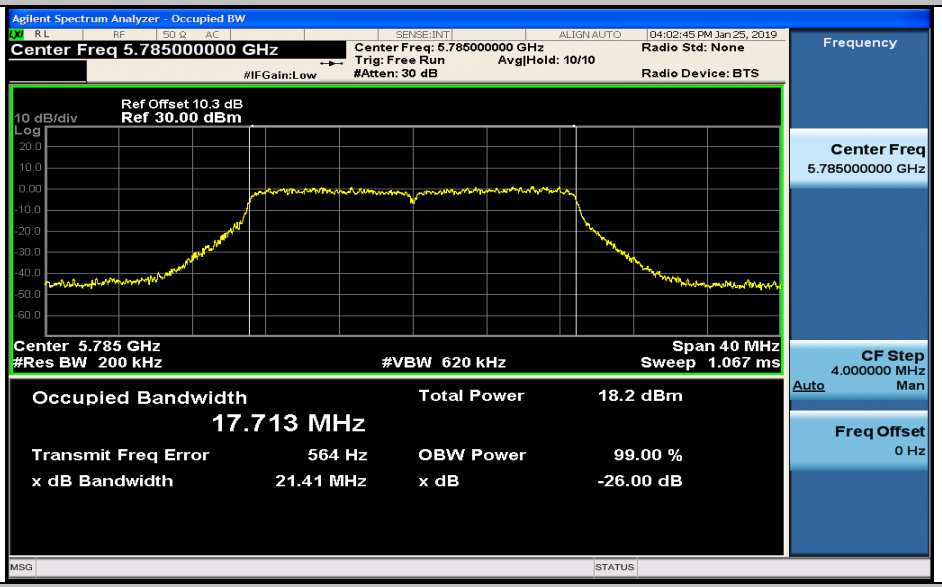
(26dB)Emission Bandwidth Measurement_11A_5825_Ant1



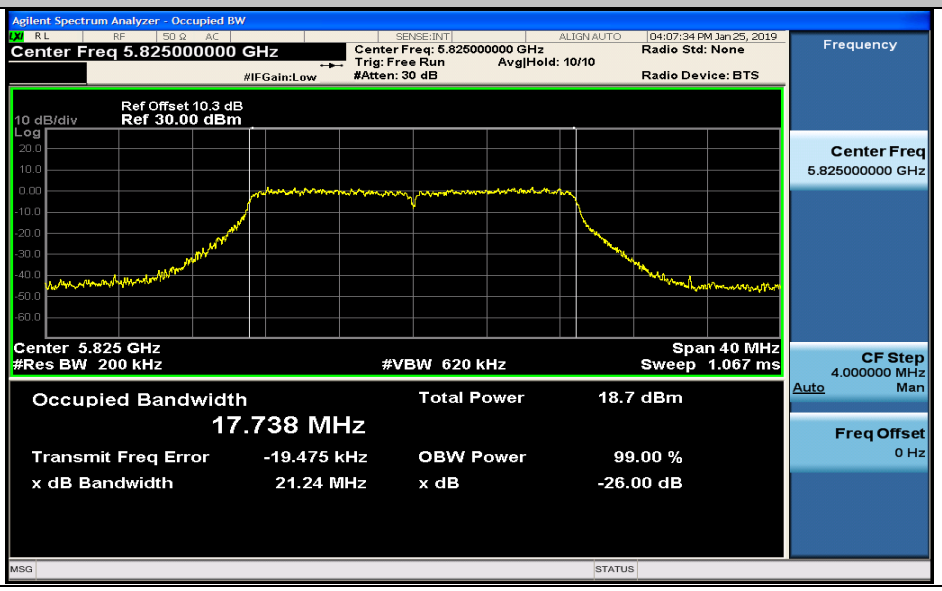
(26dB)Emission Bandwidth Measurement_11N20_5745_Ant1



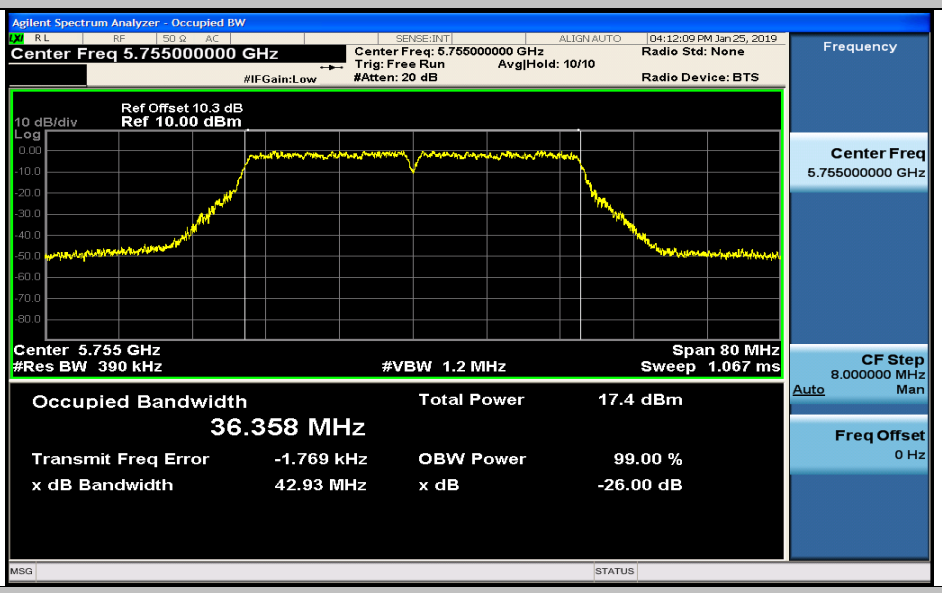
(26dB)Emission Bandwidth Measurement_11N20_5785_Ant1



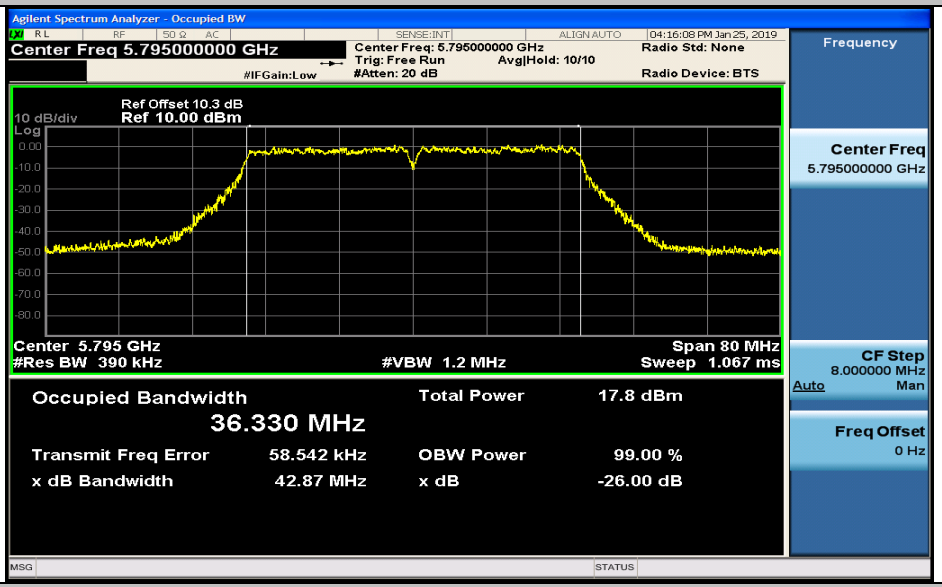
(26dB)Emission Bandwidth Measurement_11N20_5825_Ant1



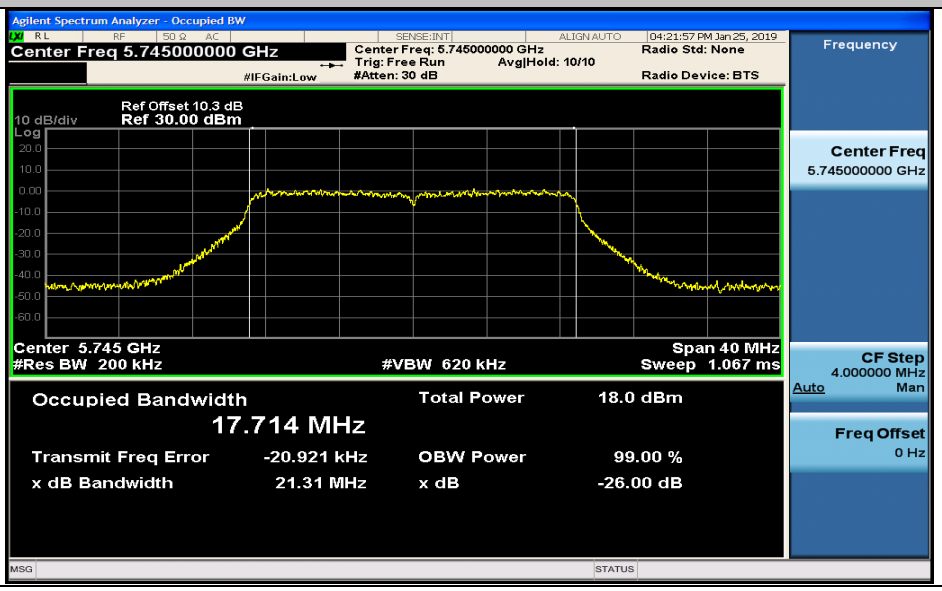
(26dB)Emission Bandwidth Measurement_11N40_5755_Ant1



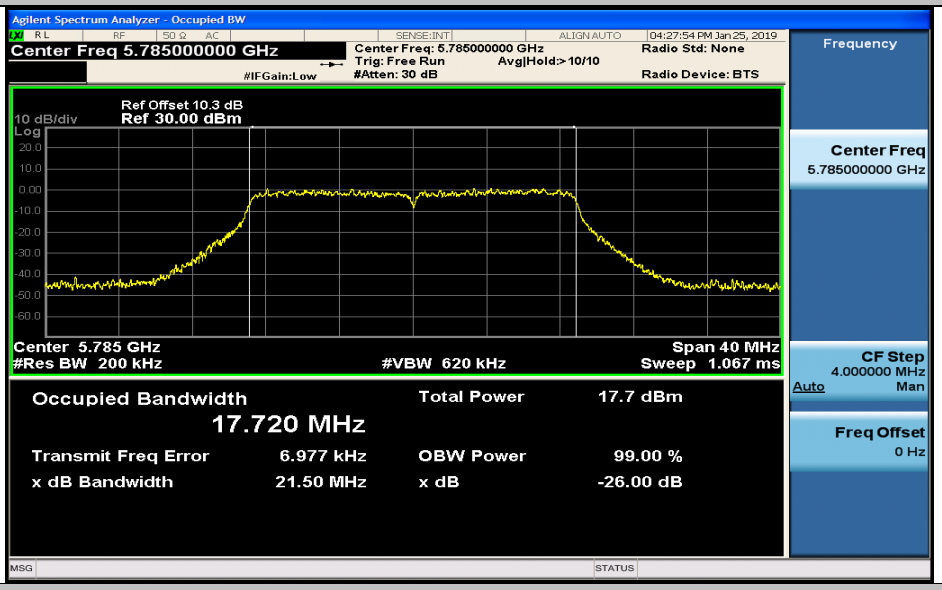
(26dB)Emission Bandwidth Measurement_11N40_5795_Ant1



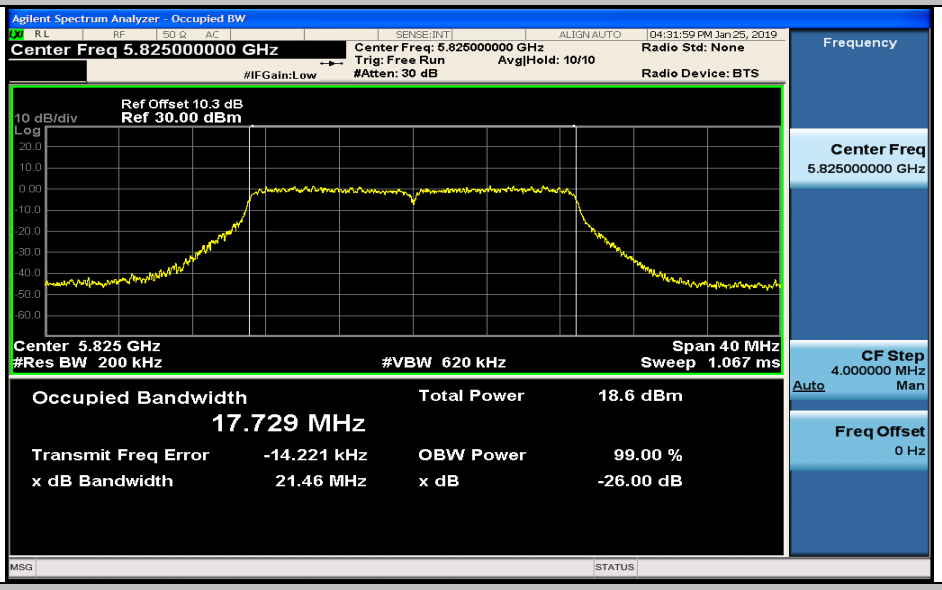
(26dB)Emission Bandwidth Measurement_11AC20_5745_Ant1



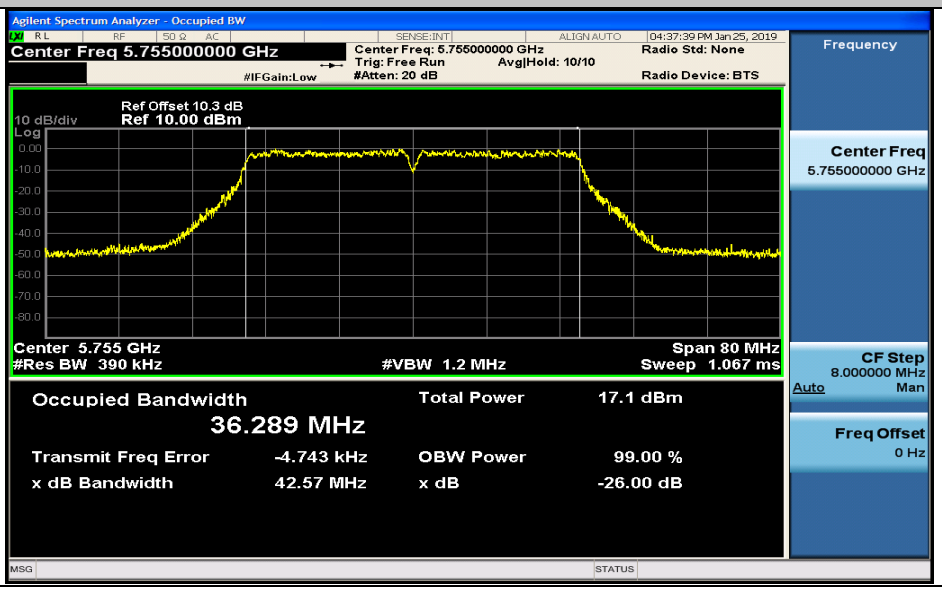
(26dB)Emission Bandwidth Measurement_11AC20_5785_Ant1



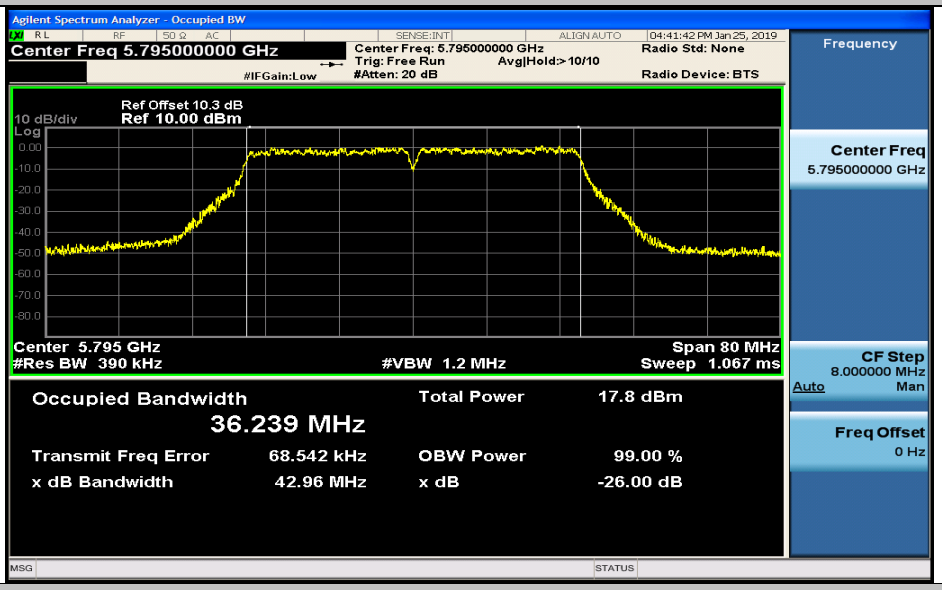
(26dB)Emission Bandwidth Measurement_11AC20_5825_Ant1



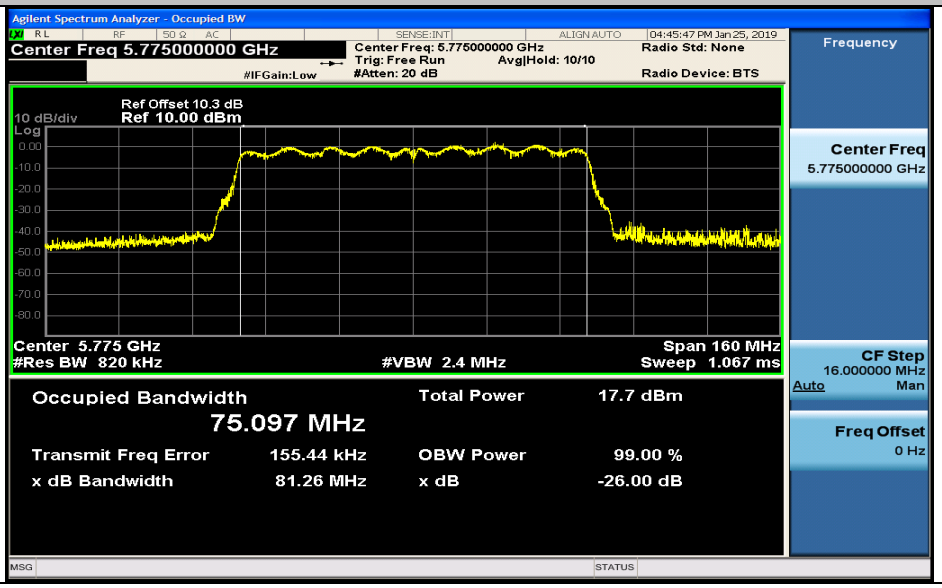
(26dB)Emission Bandwidth Measurement_11AC40_5755_Ant1



(26dB)Emission Bandwidth Measurement_11AC40_5795_Ant1



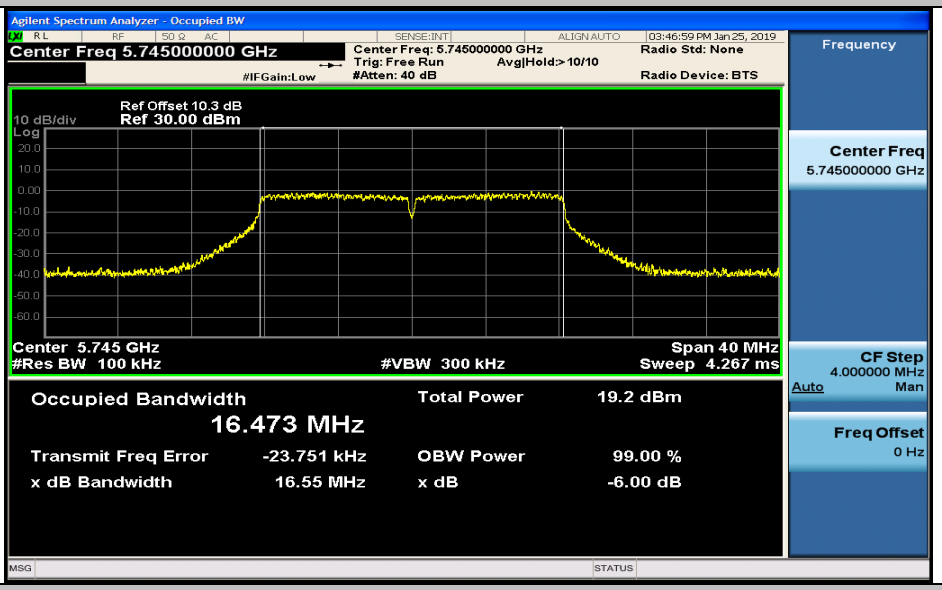
(26dB)Emission Bandwidth Measurement_11AC80_5775_Ant1



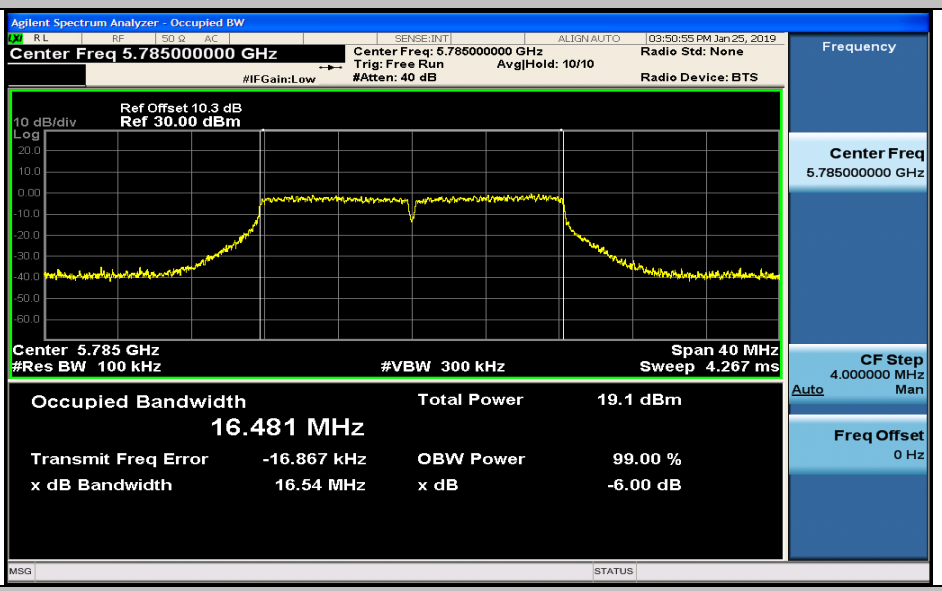
2.(6dB)Minimum Emission Bandwidth Measurement

Test Mode	Test Channel	Ant	(6dB)EBW[MHz]	Limit[MHz]	Verdict
11A	5745	Ant1	16.55	0.5	PASS
11A	5785	Ant1	16.54	0.5	PASS
11A	5825	Ant1	16.55	0.5	PASS
11N20	5745	Ant1	17.67	0.5	PASS
11N20	5785	Ant1	17.76	0.5	PASS
11N20	5825	Ant1	17.78	0.5	PASS
11N40	5755	Ant1	36.46	0.5	PASS
11N40	5795	Ant1	36.47	0.5	PASS
11AC20	5745	Ant1	17.75	0.5	PASS
11AC20	5785	Ant1	17.75	0.5	PASS
11AC20	5825	Ant1	17.74	0.5	PASS
11AC40	5755	Ant1	36.48	0.5	PASS
11AC40	5795	Ant1	36.46	0.5	PASS
11AC80	5775	Ant1	75.66	0.5	PASS

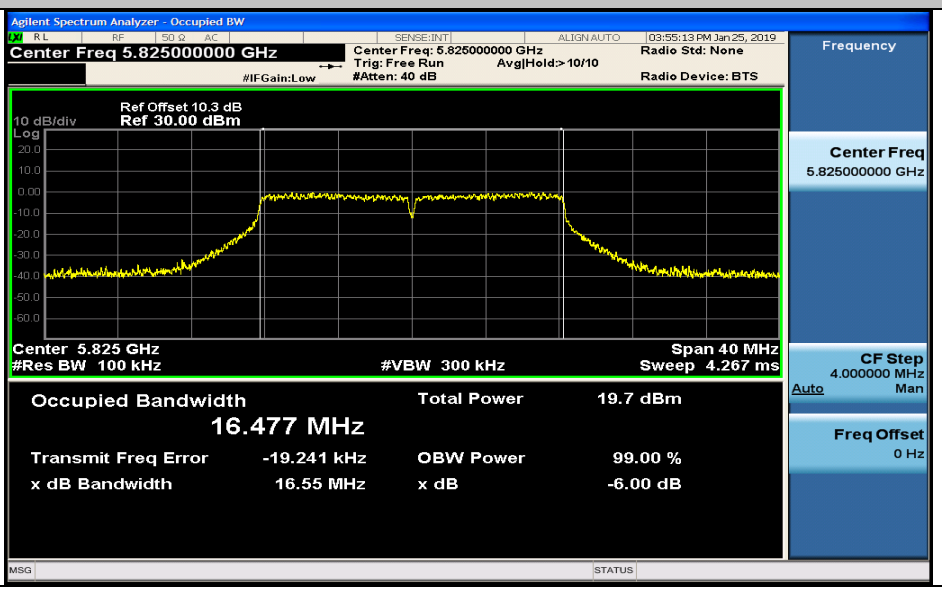
(6dB)Minimum Emission Bandwidth Measurement_11A_5745_Ant1



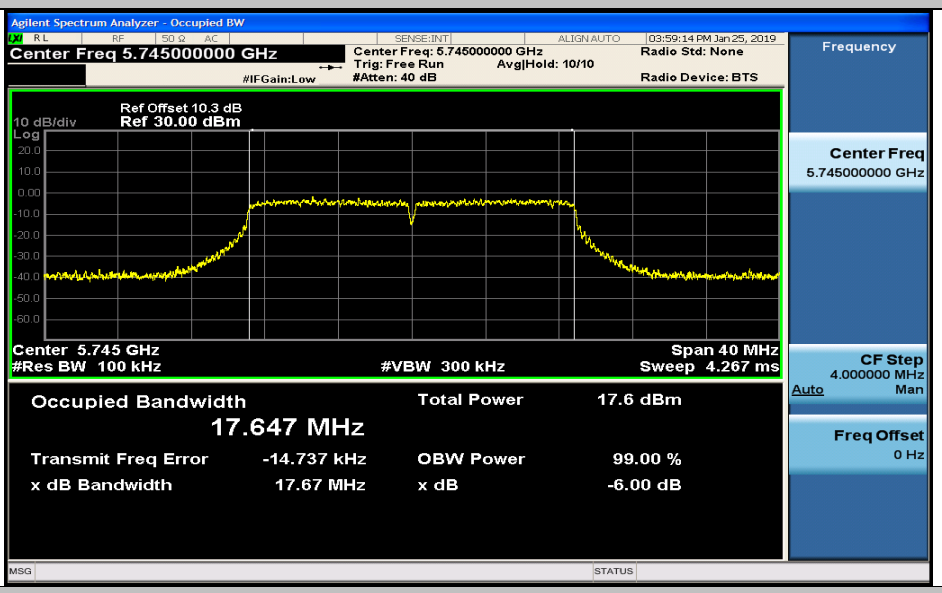
(6dB)Minimum Emission Bandwidth Measurement_11A_5785_Ant1



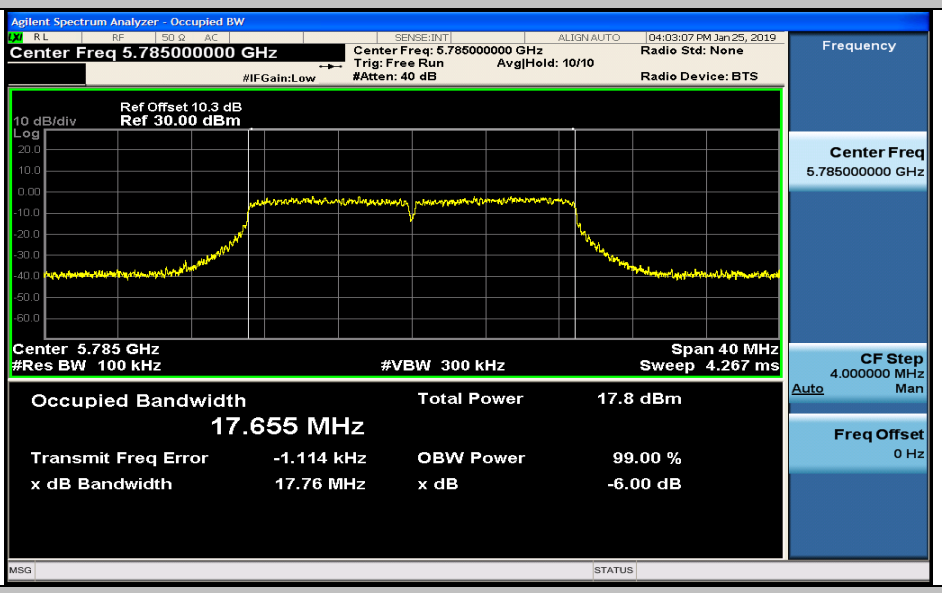
(6dB)Minimum Emission Bandwidth Measurement_11A_5825_Ant1



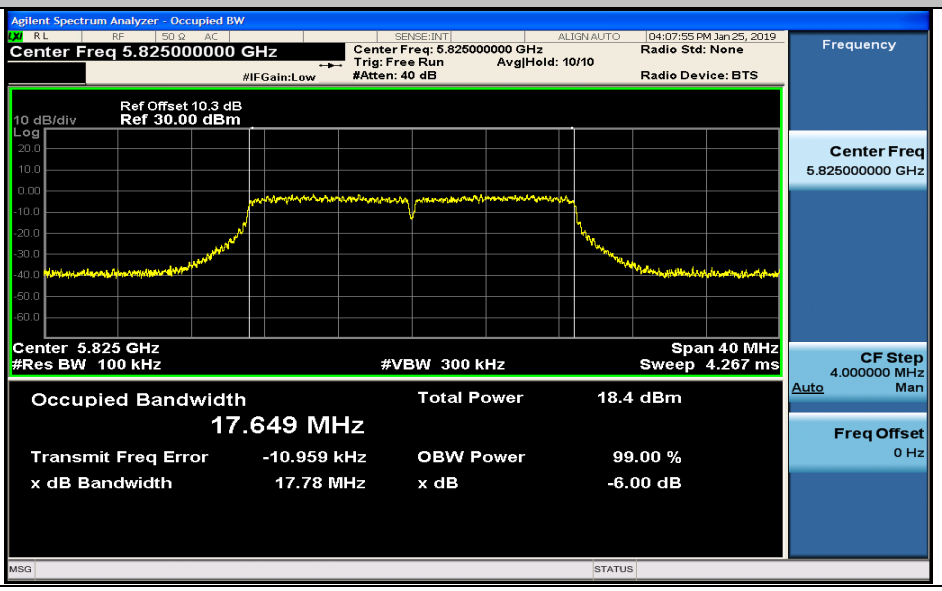
(6dB)Minimum Emission Bandwidth Measurement_11N20_5745_Ant1



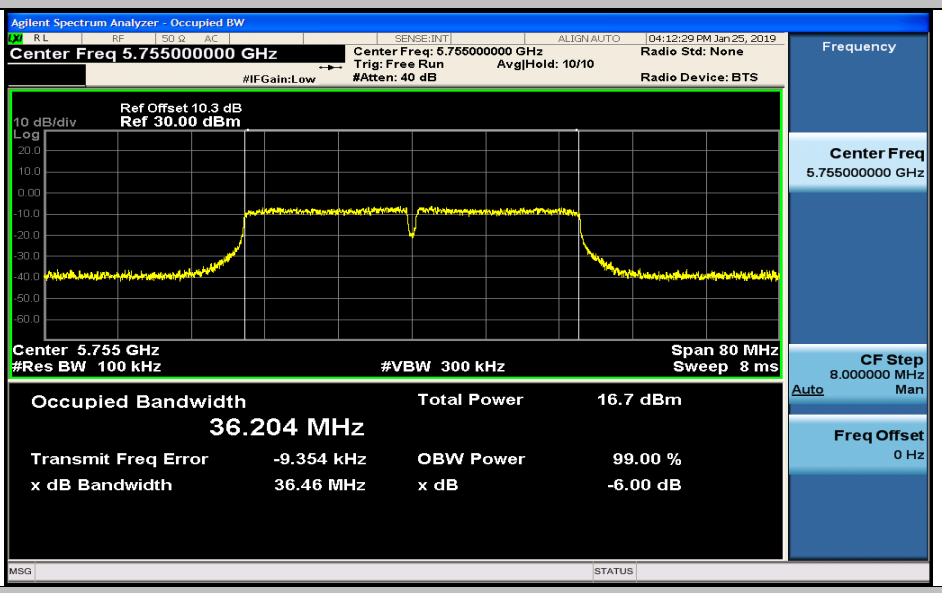
(6dB)Minimum Emission Bandwidth Measurement_11N20_5785_Ant1



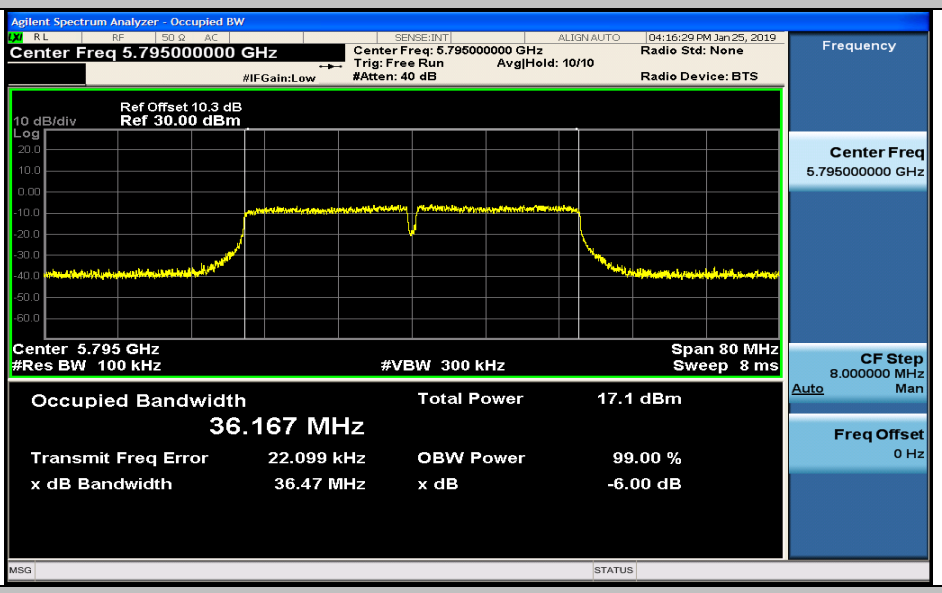
(6dB)Minimum Emission Bandwidth Measurement_11N20_5825_Ant1



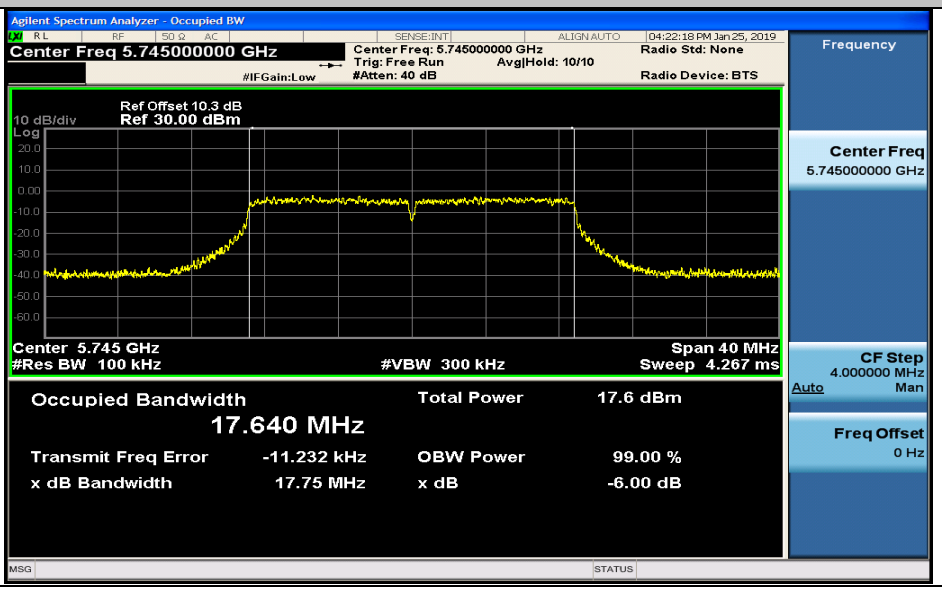
(6dB)Minimum Emission Bandwidth Measurement_11N40_5755_Ant1



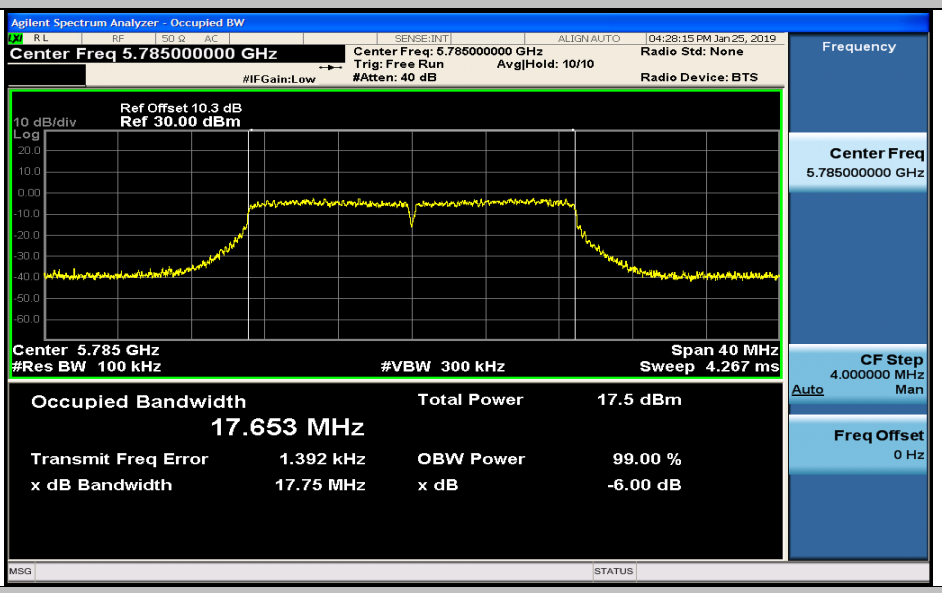
(6dB)Minimum Emission Bandwidth Measurement_11N40_5795_Ant1



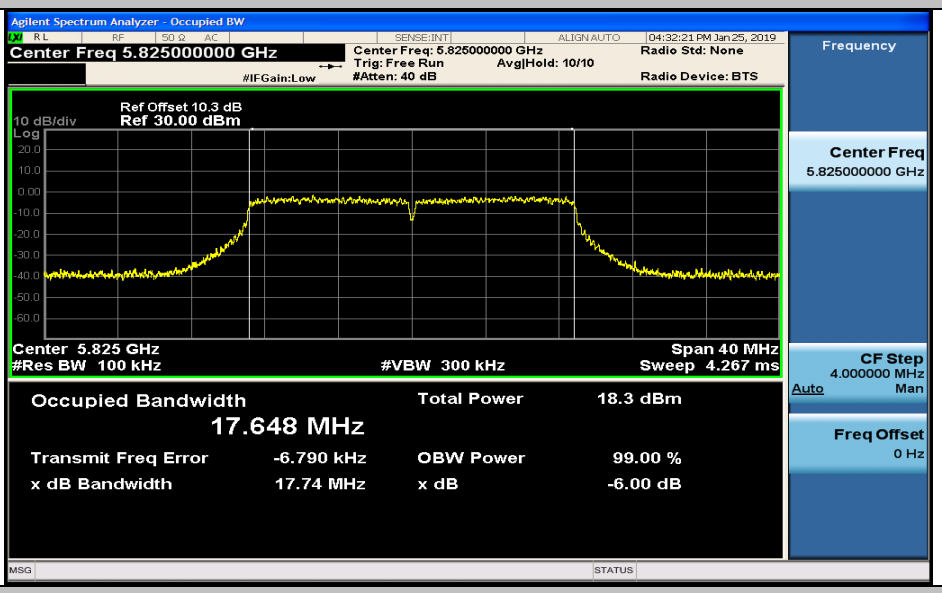
(6dB)Minimum Emission Bandwidth Measurement_11AC20_5745_Ant1



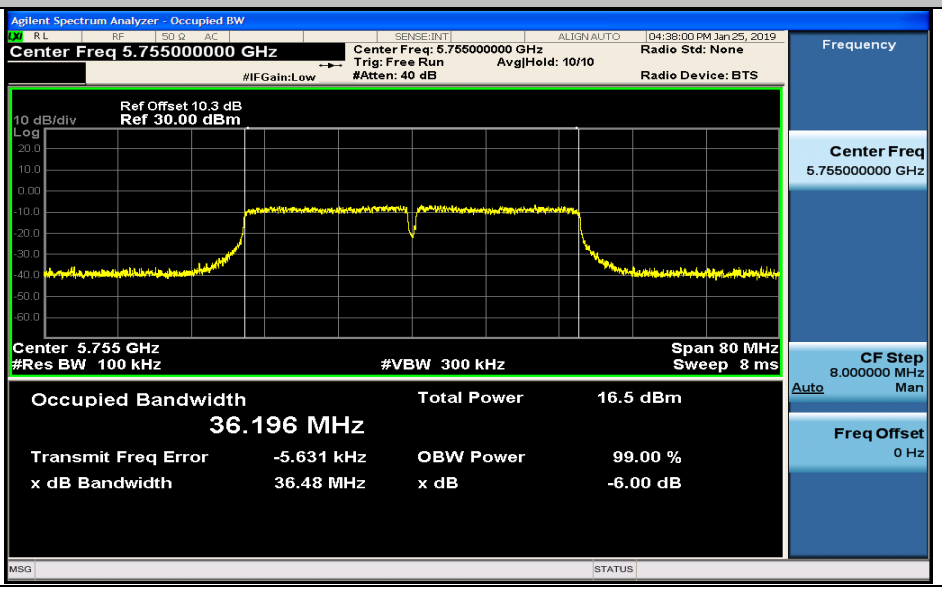
(6dB)Minimum Emission Bandwidth Measurement_11AC20_5785_Ant1



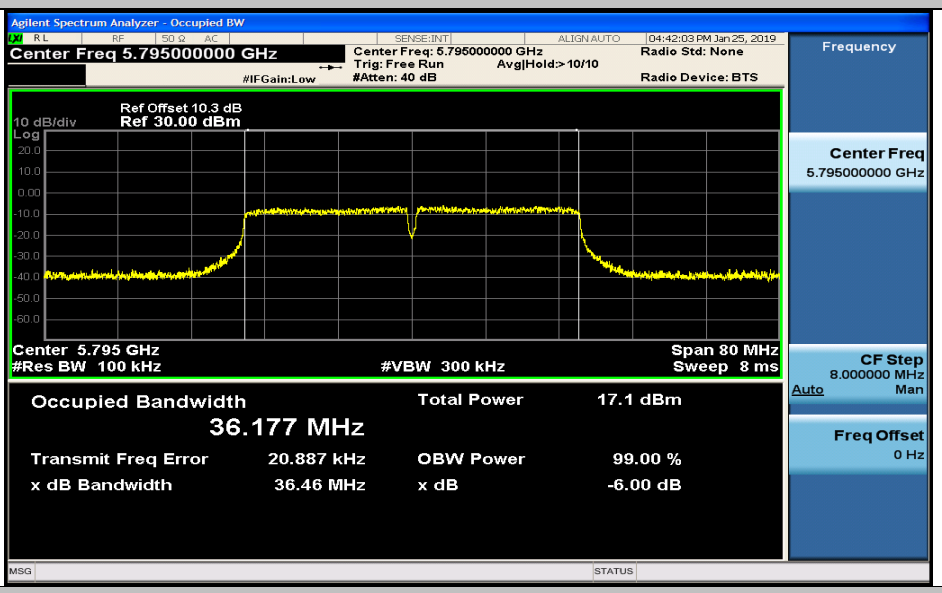
(6dB)Minimum Emission Bandwidth Measurement_11AC20_5825_Ant1



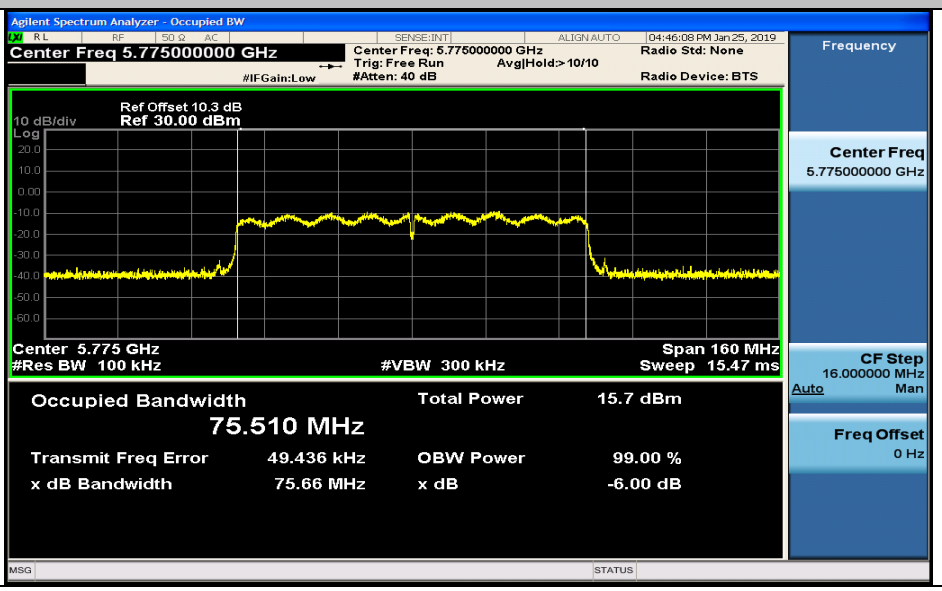
(6dB)Minimum Emission Bandwidth Measurement_11AC40_5755_Ant1



(6dB)Minimum Emission Bandwidth Measurement_11AC40_5795_Ant1



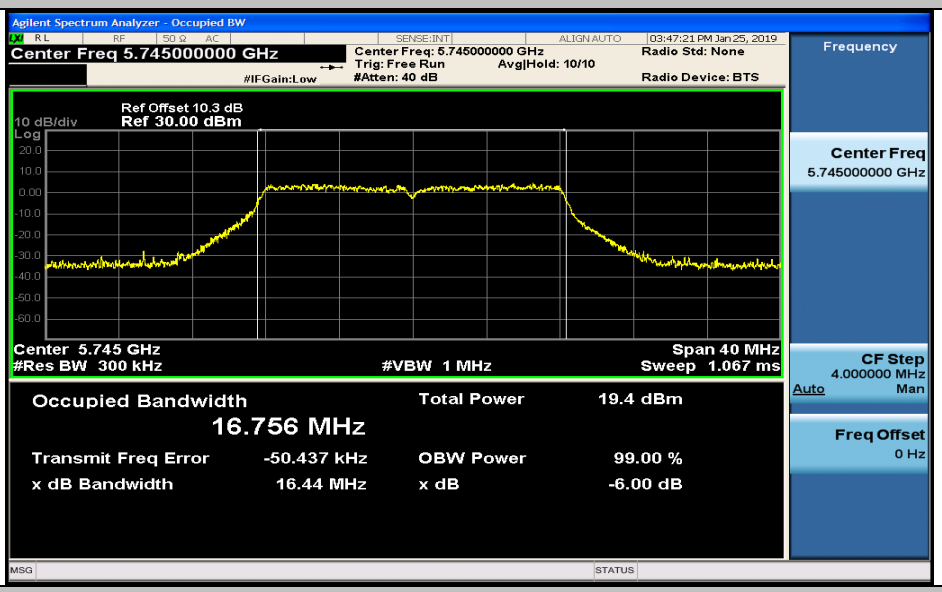
(6dB)Minimum Emission Bandwidth Measurement_11AC80_5775_Ant1



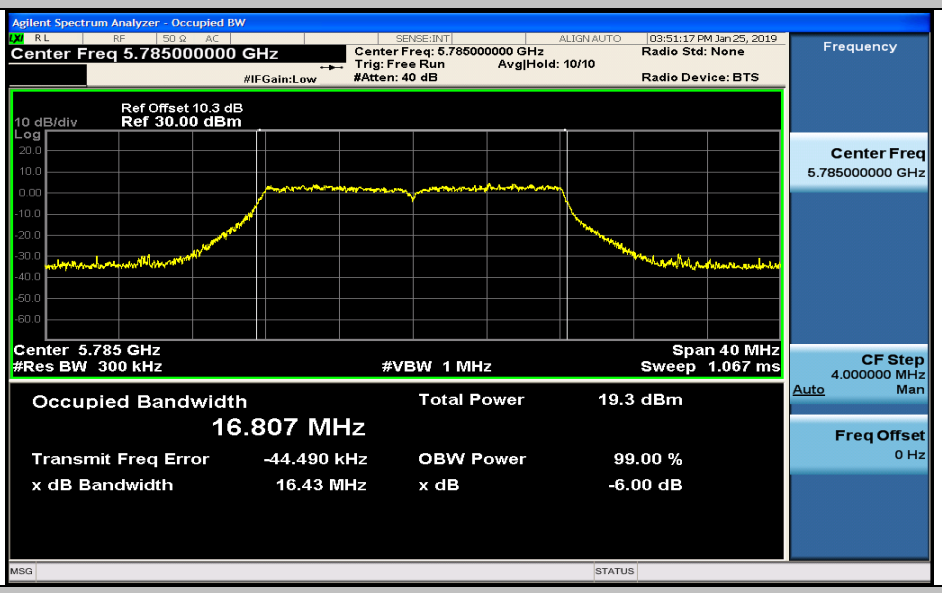
3.Occupied Bandwidth Measurement

Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
11A	5745	Ant1	16.76	---	PASS
11A	5785	Ant1	16.81	---	PASS
11A	5825	Ant1	16.79	---	PASS
11N20	5745	Ant1	17.85	---	PASS
11N20	5785	Ant1	17.86	---	PASS
11N20	5825	Ant1	17.85	---	PASS
11N40	5755	Ant1	36.89	---	PASS
11N40	5795	Ant1	36.88	---	PASS
11AC20	5745	Ant1	17.88	---	PASS
11AC20	5785	Ant1	17.89	---	PASS
11AC20	5825	Ant1	17.85	---	PASS
11AC40	5755	Ant1	36.98	---	PASS
11AC40	5795	Ant1	36.87	---	PASS
11AC80	5775	Ant1	75.37	---	PASS

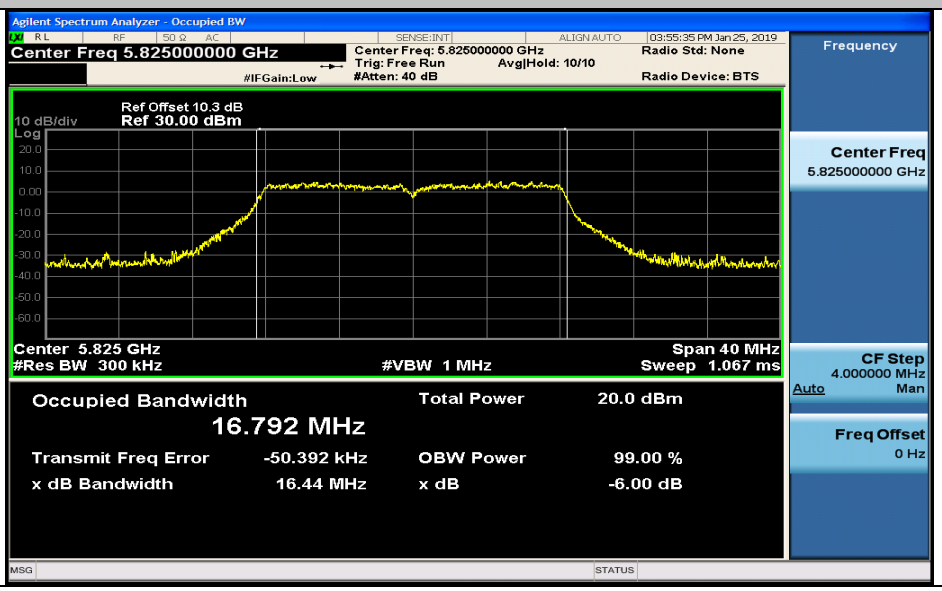
Occupied Bandwidth Measurement_11A_5745_Ant1



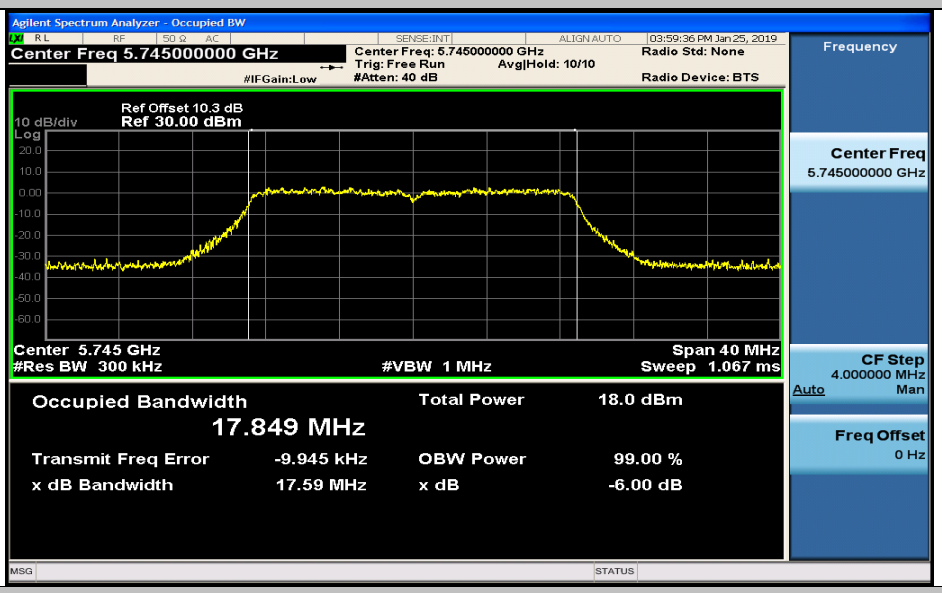
Occupied Bandwidth Measurement_11A_5785_Ant1



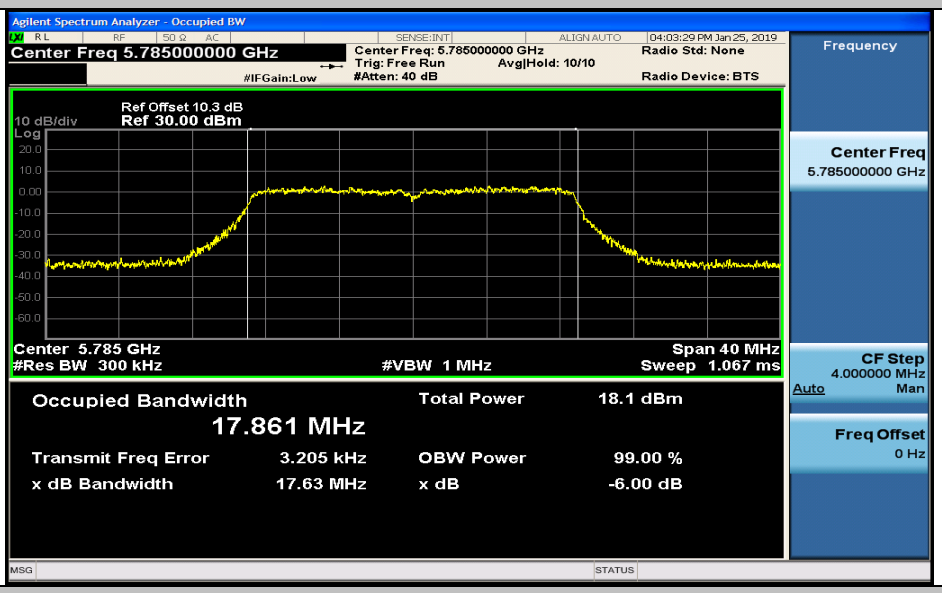
Occupied Bandwidth Measurement_11A_5825_Ant1



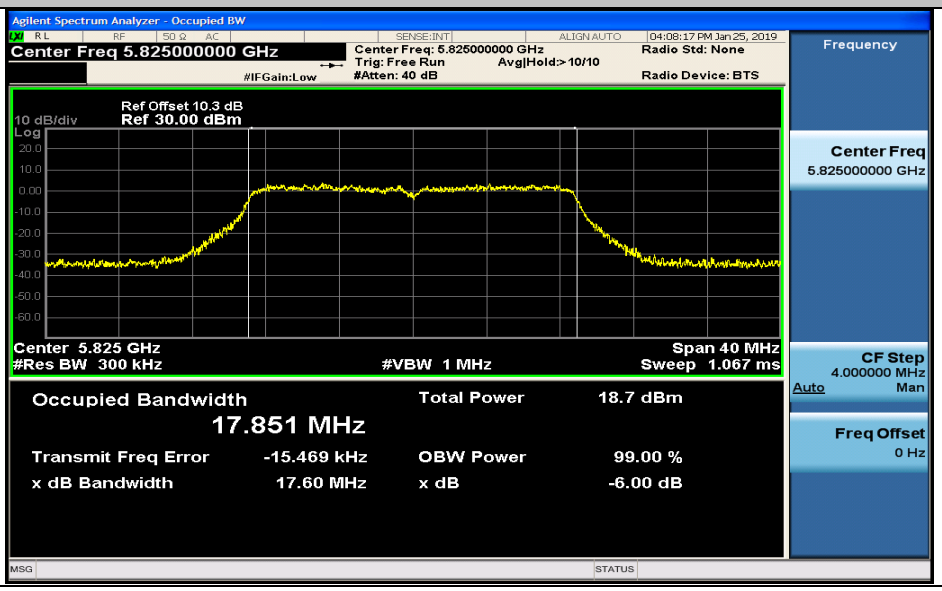
Occupied Bandwidth Measurement_11N20_5745_Ant1



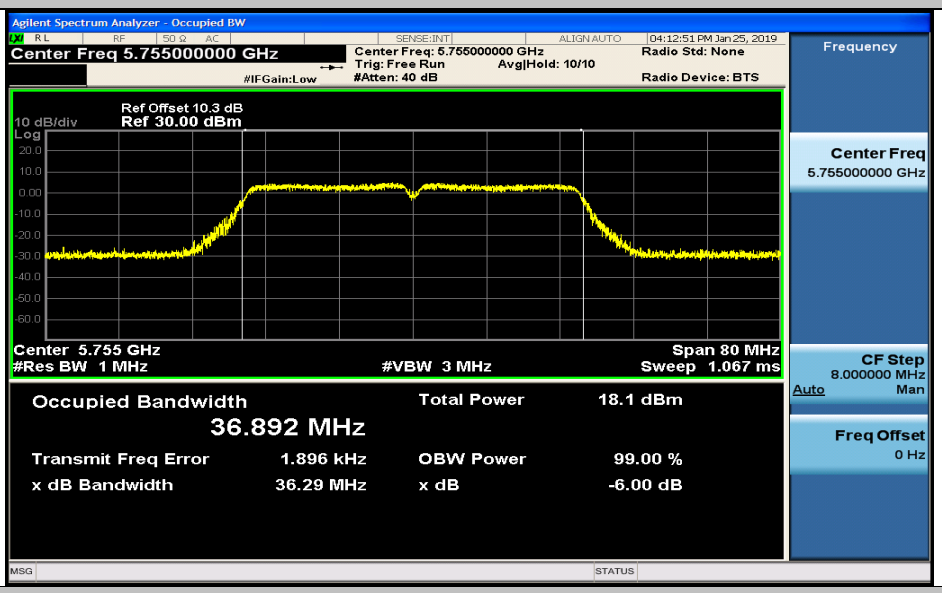
Occupied Bandwidth Measurement_11N20_5785_Ant1



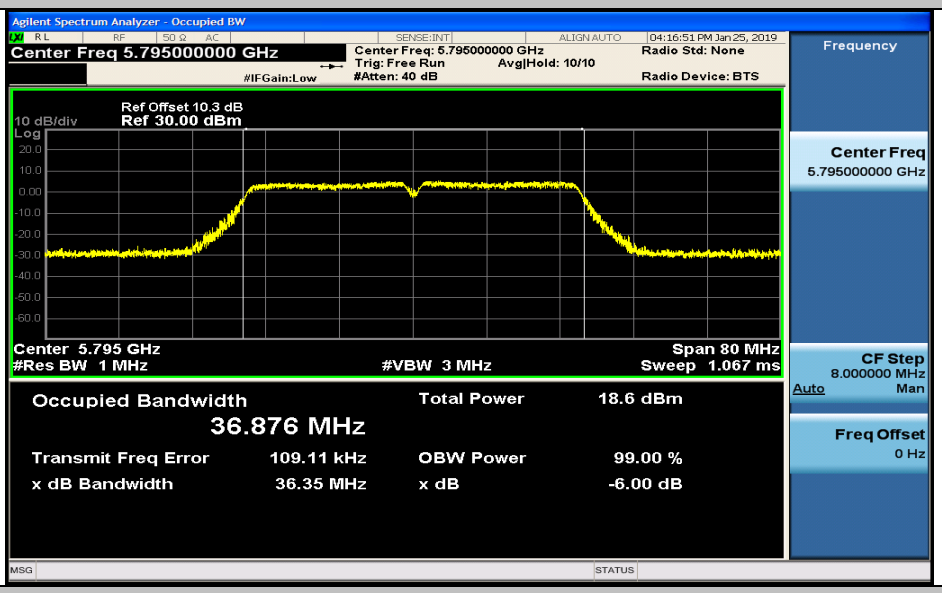
Occupied Bandwidth Measurement_11N20_5825_Ant1



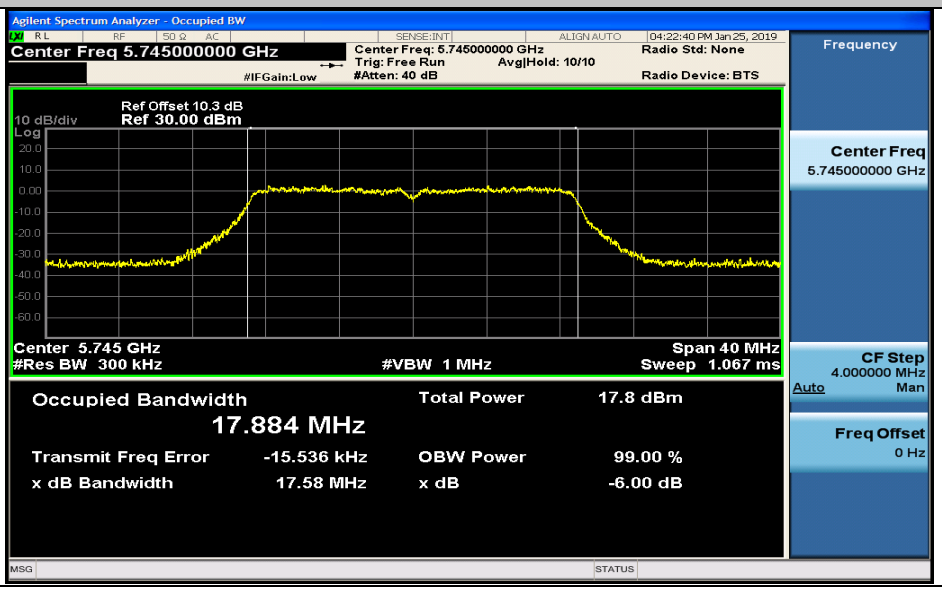
Occupied Bandwidth Measurement_11N40_5755_Ant1



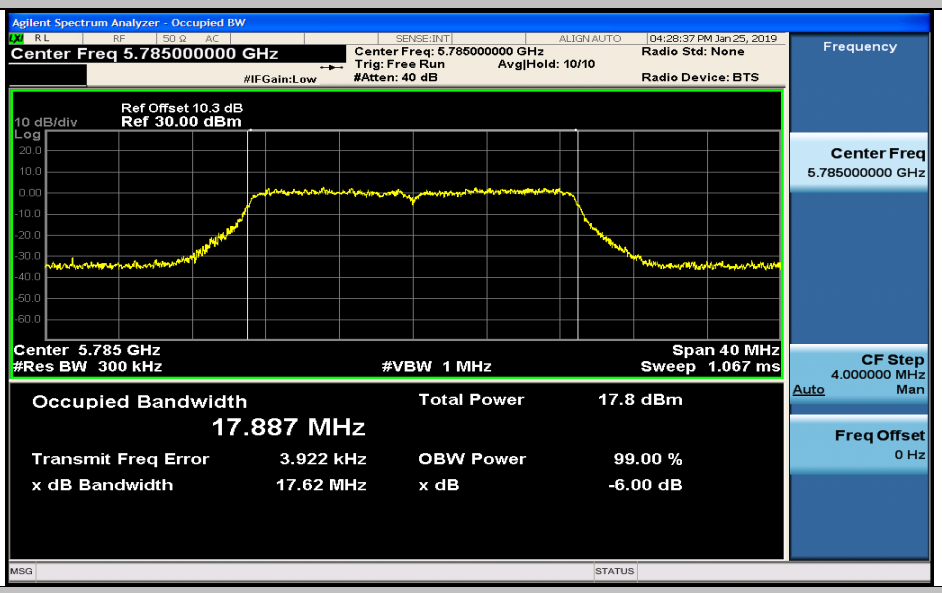
Occupied Bandwidth Measurement_11N40_5795_Ant1



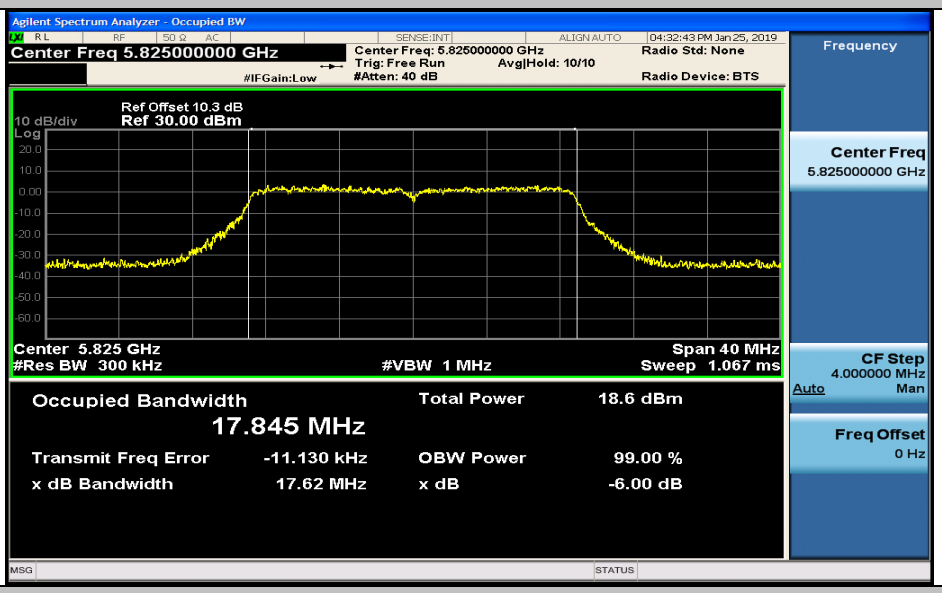
Occupied Bandwidth Measurement_11AC20_5745_Ant1



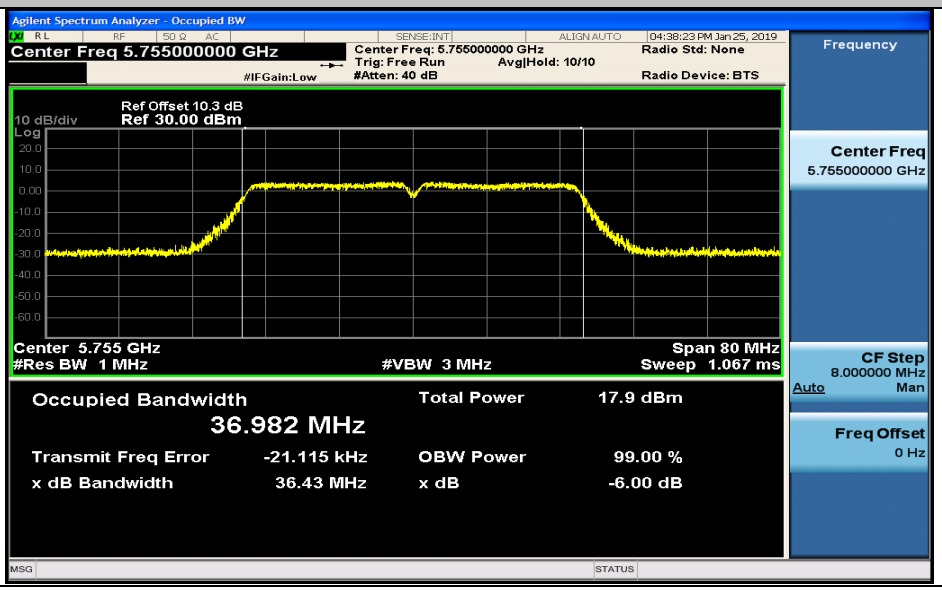
Occupied Bandwidth Measurement_11AC20_5785_Ant1

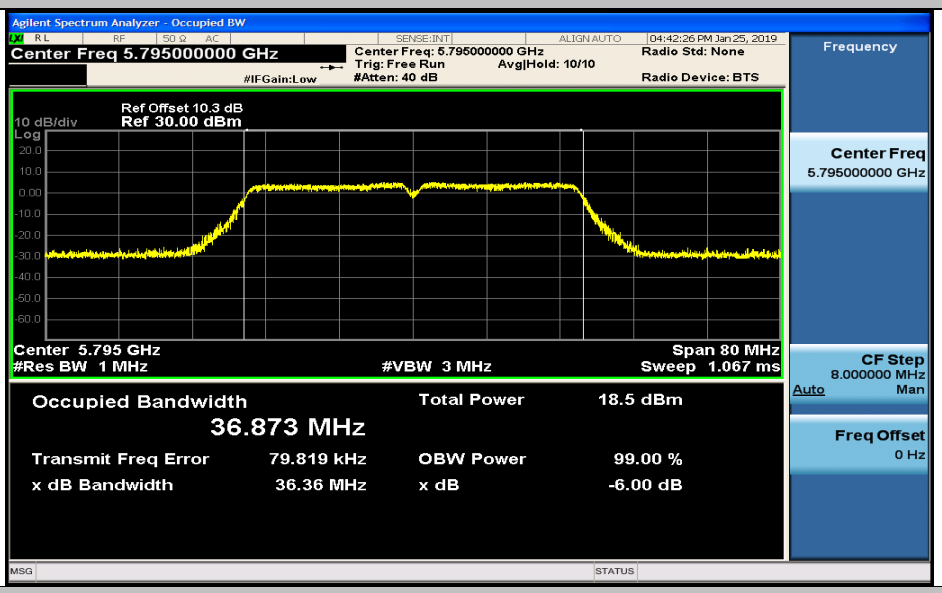


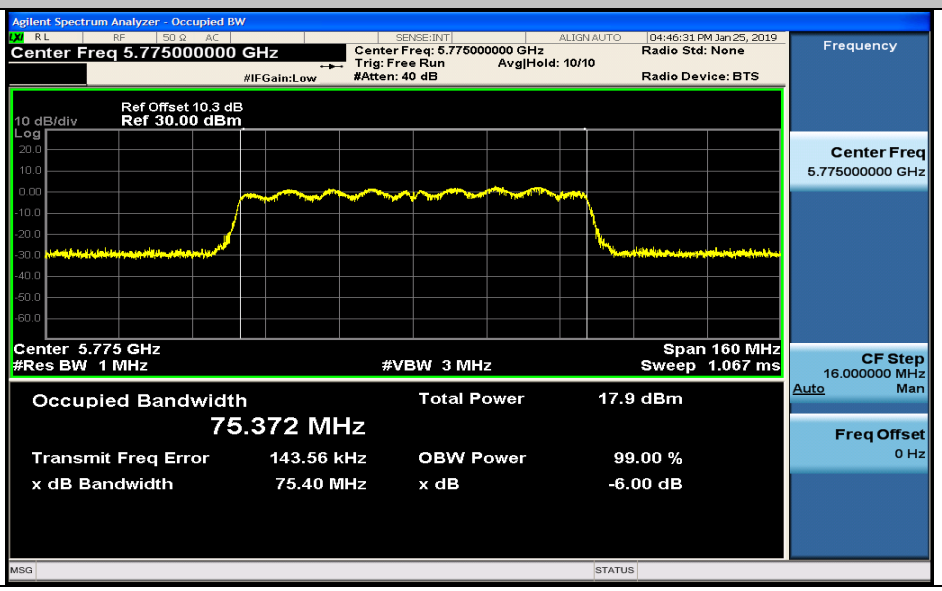
Occupied Bandwidth Measurement_11AC20_5825_Ant1



Occupied Bandwidth Measurement_11AC40_5755_Ant1



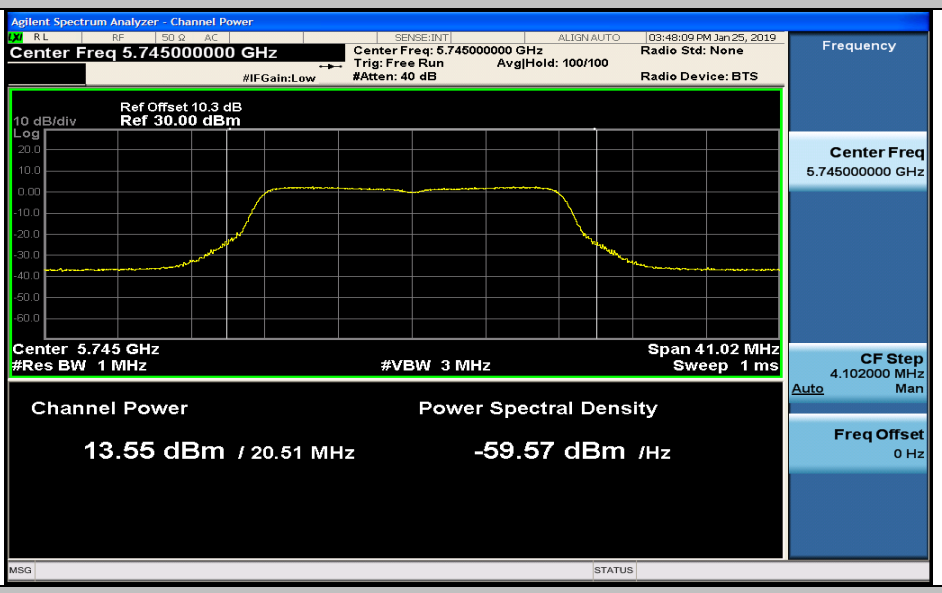
Occupied Bandwidth Measurement_11AC40_5795_Ant1


Occupied Bandwidth Measurement_11AC80_5775_Ant1


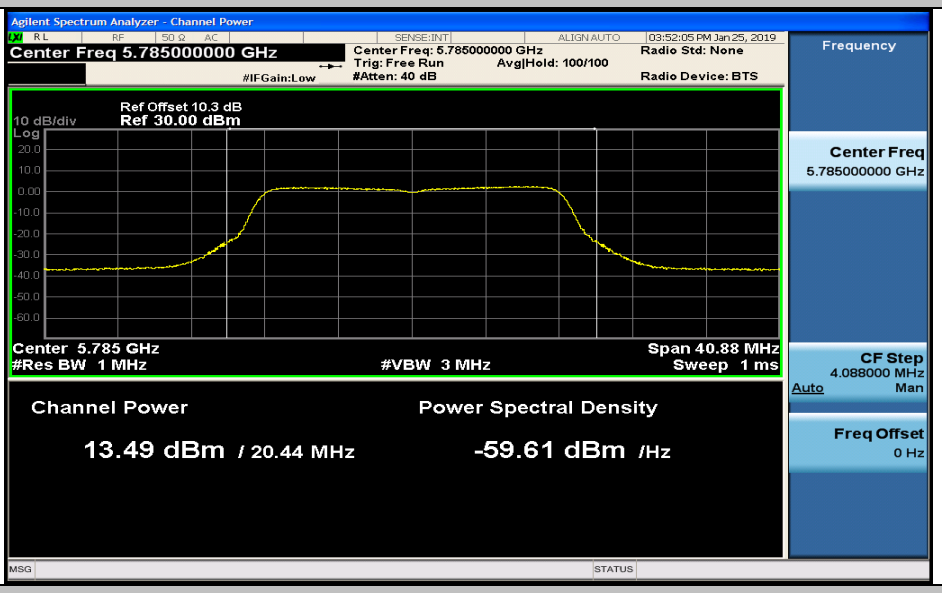
4.Maximum Conduct Output Power

Test Mode	Test Channel	Ant	Level [dBm]	10log(1/x) Factor [dB]	Power [dBm]	Limit [dBm]	Verdict
11A	5745	Ant1	13.55	0.00	13.55	30.00	PASS
11A	5785	Ant1	13.49	0.00	13.49	30.00	PASS
11A	5825	Ant1	14.13	0.00	14.13	30.00	PASS
11N20	5745	Ant1	12.05	0.00	12.05	30.00	PASS
11N20	5785	Ant1	12.15	0.00	12.15	30.00	PASS
11N20	5825	Ant1	12.86	0.00	12.86	30.00	PASS
11N40	5755	Ant1	11.41	0.00	11.41	30.00	PASS
11N40	5795	Ant1	11.87	0.00	11.87	30.00	PASS
11AC20	5745	Ant1	11.93	0.00	11.93	30.00	PASS
11AC20	5785	Ant1	11.9	0.00	11.9	30.00	PASS
11AC20	5825	Ant1	12.68	0.00	12.68	30.00	PASS
11AC40	5755	Ant1	11.24	0.00	11.24	30.00	PASS
11AC40	5795	Ant1	11.81	0.00	11.81	30.00	PASS
11AC80	5775	Ant1	10.66	0.00	10.66	30.00	PASS

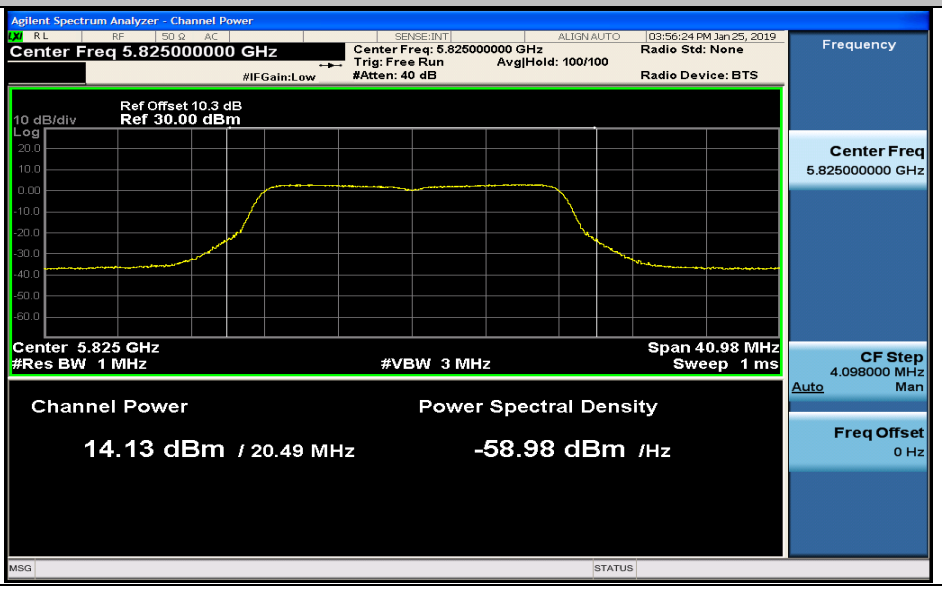
Maximum Conduct Output Power_11A_5745_Ant1



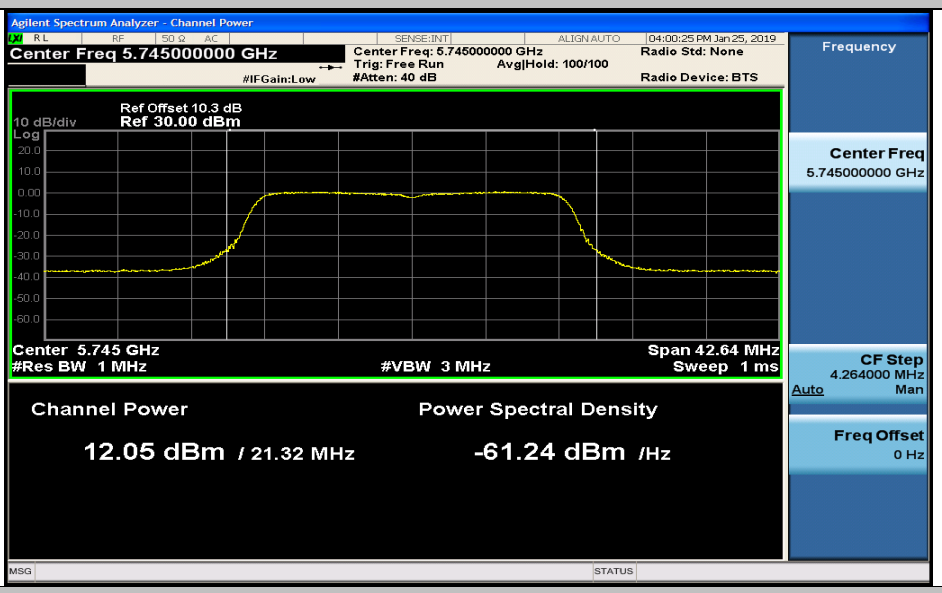
Maximum Conduct Output Power_11A_5785_Ant1



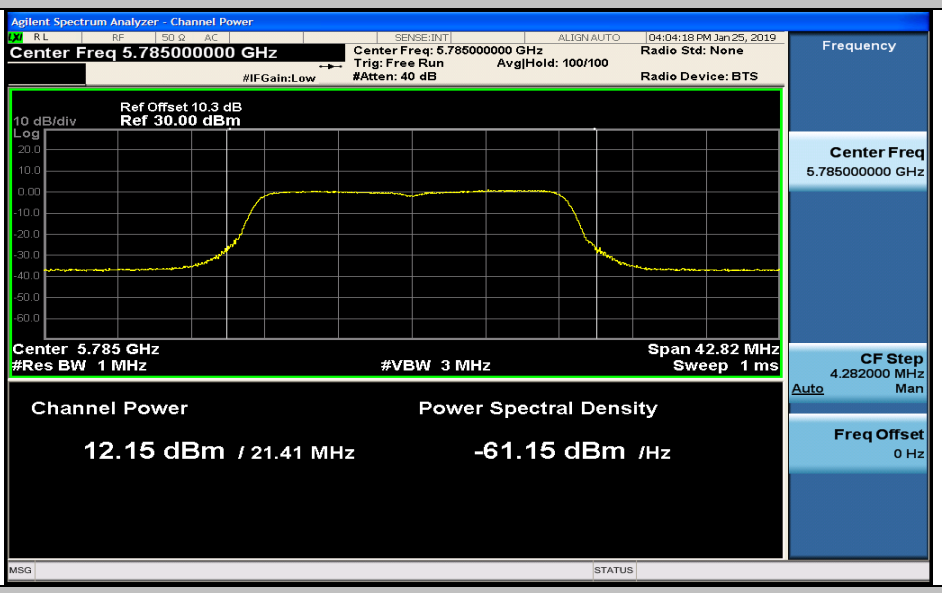
Maximum Conduct Output Power_11A_5825_Ant1



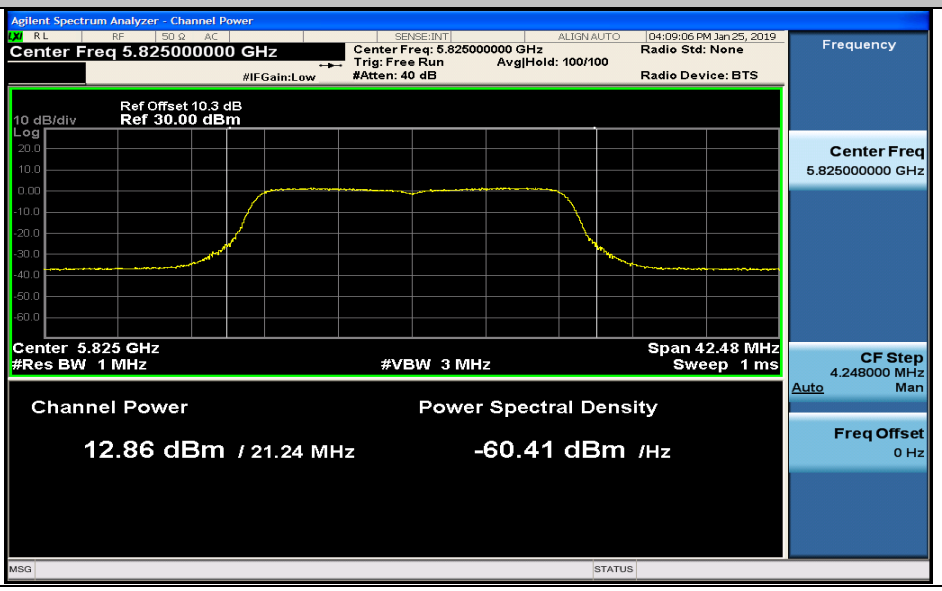
Maximum Conduct Output Power_11N20_5745_Ant1



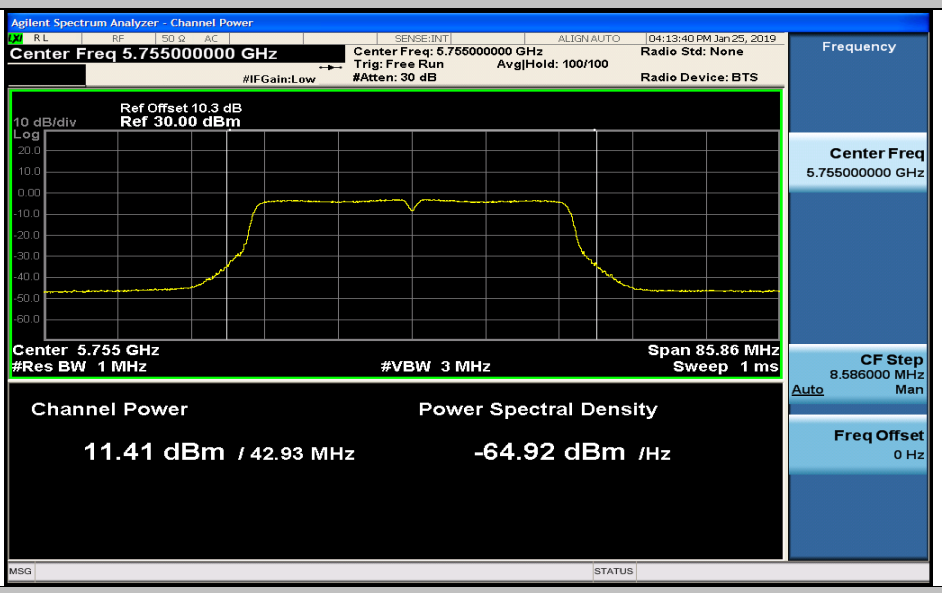
Maximum Conduct Output Power_11N20_5785_Ant1



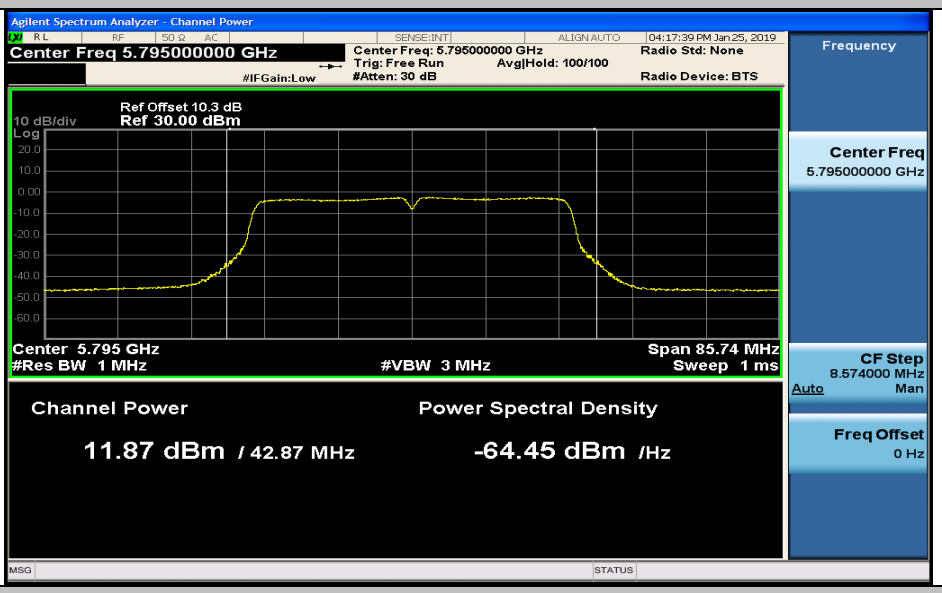
Maximum Conduct Output Power_11N20_5825_Ant1



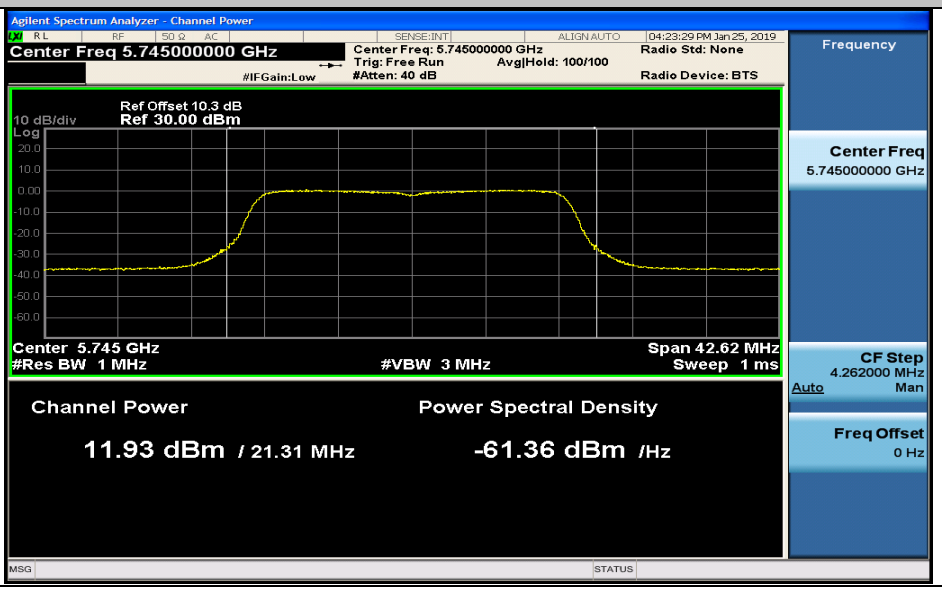
Maximum Conduct Output Power_11N40_5755_Ant1



Maximum Conduct Output Power_11N40_5795_Ant1



Maximum Conduct Output Power_11AC20_5745_Ant1



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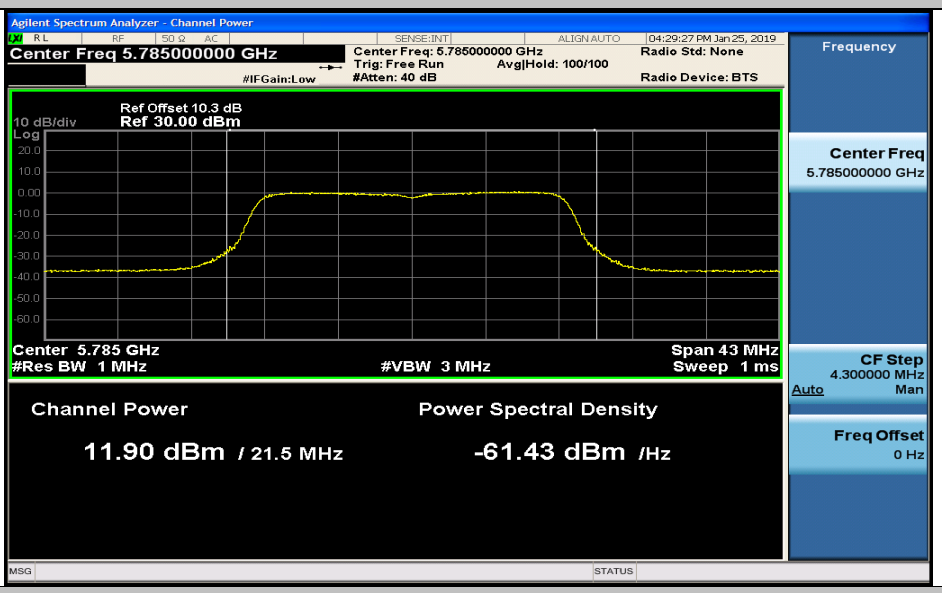
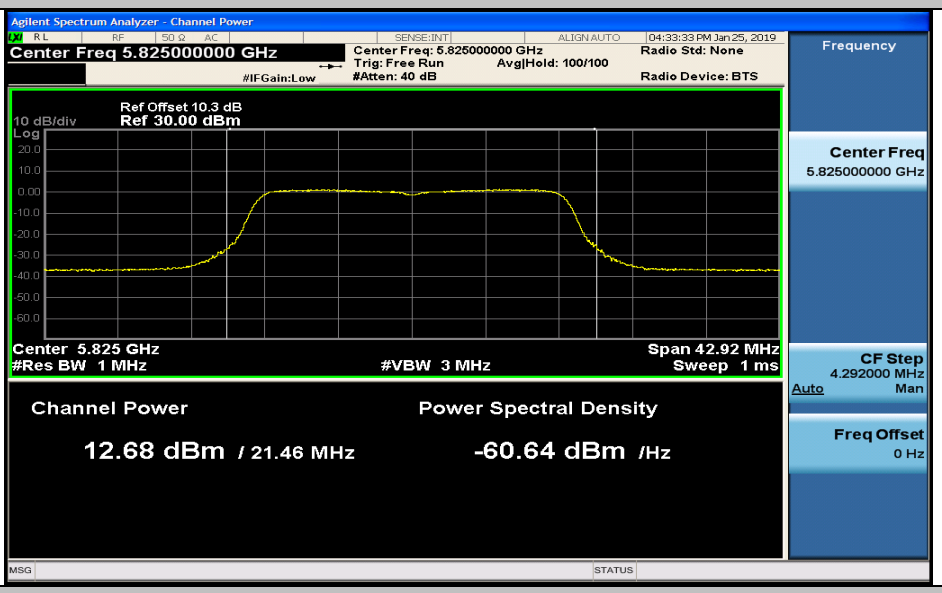
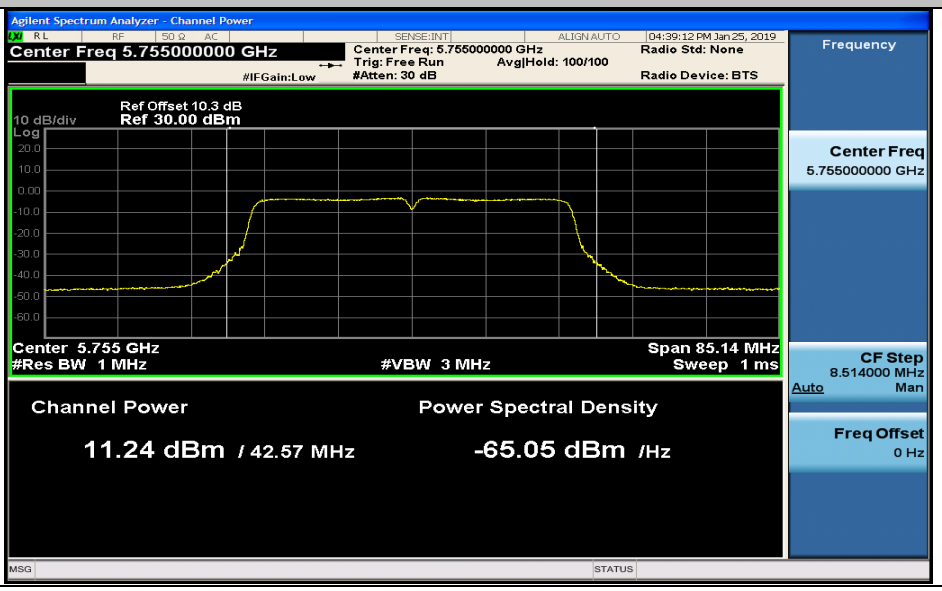


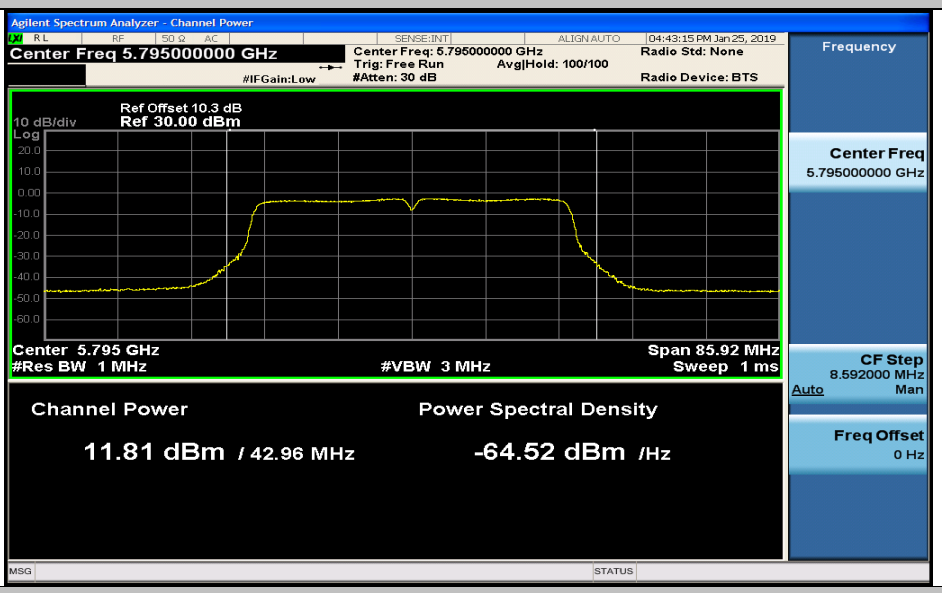
Maximum Conduct Output Power_11AC20_5825_Ant1



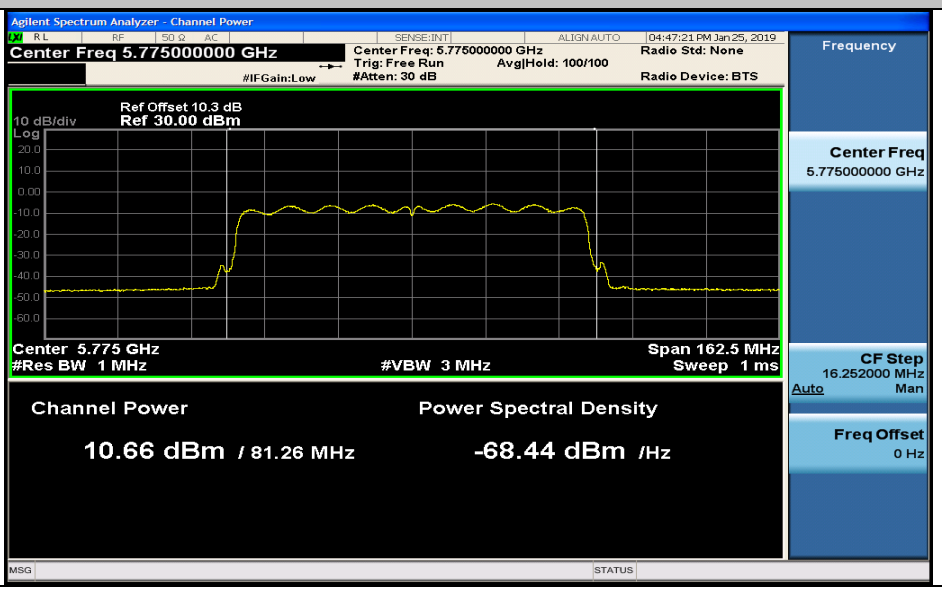
Maximum Conduct Output Power_11AC40_5755_Ant1



Maximum Conduct Output Power_11AC40_5795_Ant1



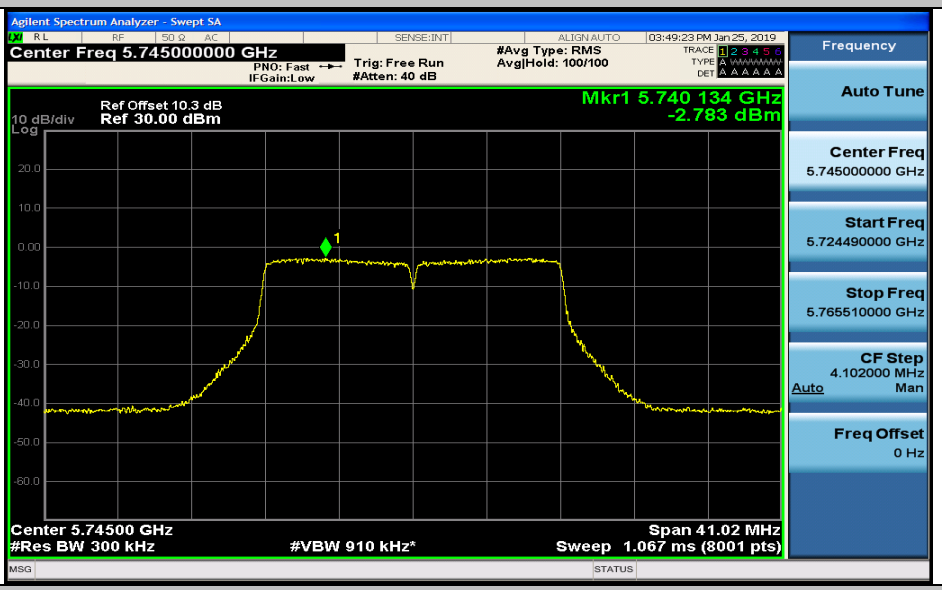
Maximum Conduct Output Power_11AC80_5775_Ant1



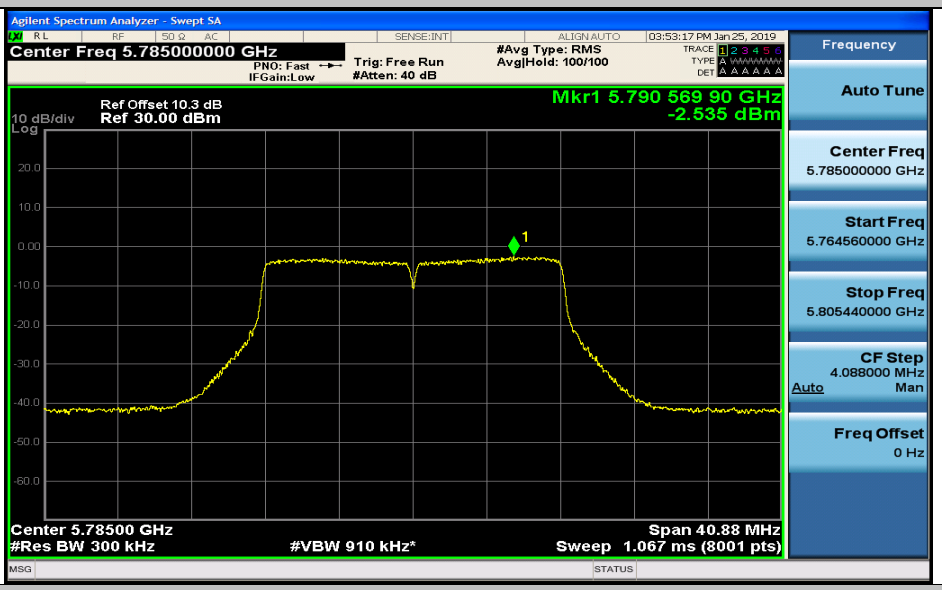
5.Maximum Power Spectral Density

Test Mode	Test Channel	Ant	Level [dBm/500kHz]	10log(1/x) Factor[dB]	10log(500kHz/RBW) Factor [dB]	PSD [dBm/500kHz]	Limit [dBm/500kHz]	Verdict
11A	5745	Ant1	-2.78	0	2.22	-0.56	17.00	PASS
11A	5785	Ant1	-2.54	0	2.22	-0.32	17.00	PASS
11A	5825	Ant1	-2.25	0	2.22	-0.03	17.00	PASS
11N20	5745	Ant1	-4.32	0	2.22	-2.1	17.00	PASS
11N20	5785	Ant1	-4.29	0	2.22	-2.07	17.00	PASS
11N20	5825	Ant1	-3.65	0	2.22	-1.43	17.00	PASS
11N40	5755	Ant1	-8.44	0	2.22	-6.22	17.00	PASS
11N40	5795	Ant1	-7.66	0	2.22	-5.44	17.00	PASS
11AC20	5745	Ant1	-4.6	0	2.22	-2.38	17.00	PASS
11AC20	5785	Ant1	-4.04	0	2.22	-1.82	17.00	PASS
11AC20	5825	Ant1	-3.64	0	2.22	-1.42	17.00	PASS
11AC40	5755	Ant1	-8.04	0	2.22	-5.82	17.00	PASS
11AC40	5795	Ant1	-7.78	0	2.22	-5.56	17.00	PASS
11AC80	5775	Ant1	-11	0	2.22	-8.78	17.00	PASS

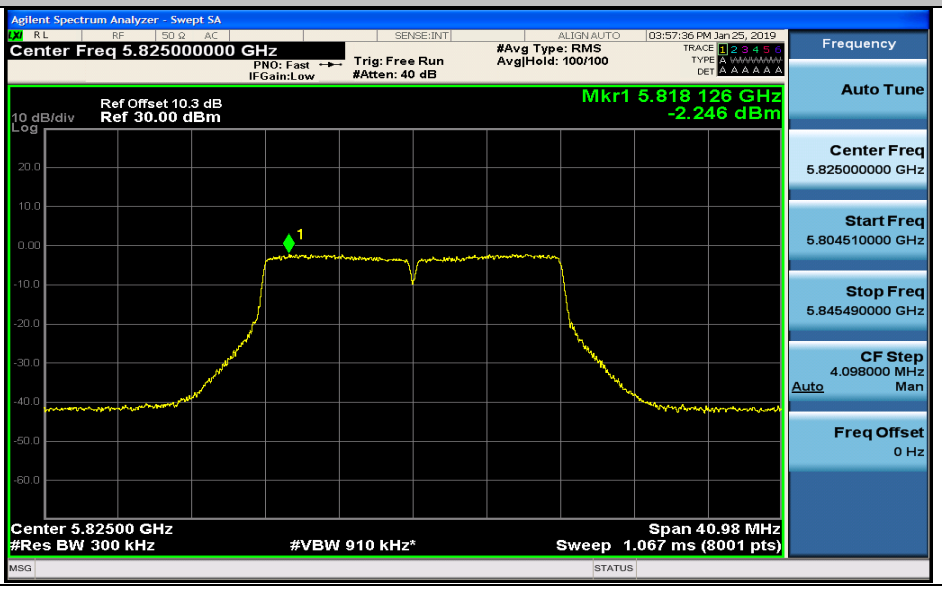
Maximum Power Spectral Density_TNVN_11A_5745_Ant1



Maximum Power Spectral Density_TNVN_11A_5785_Ant1



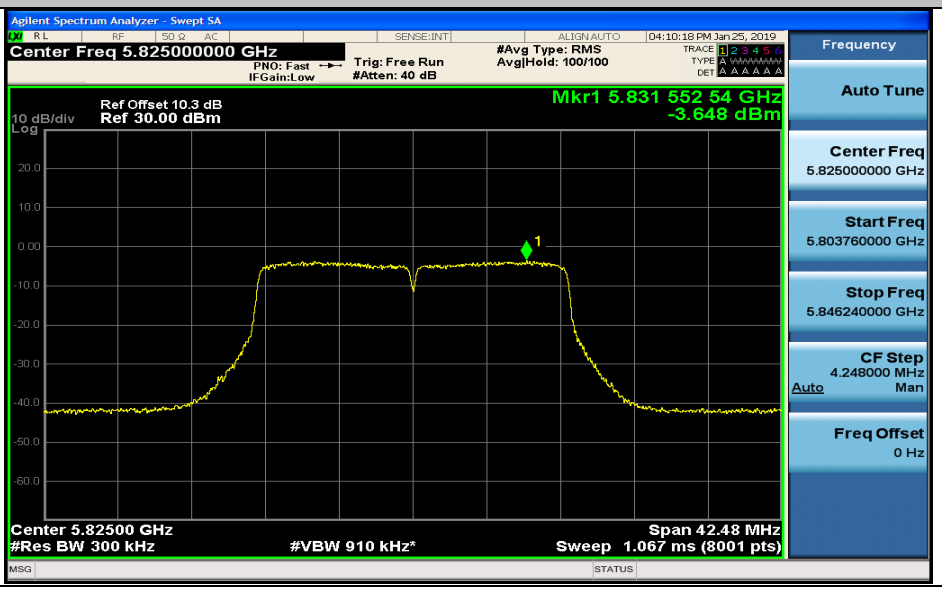
Maximum Power Spectral Density_TNVN_11A_5825_Ant1



Maximum Power Spectral Density_TNVN_11N20_5745_Ant1

Maximum Power Spectral Density_TNVN_11N20_5785_Ant1

Maximum Power Spectral Density_TNVN_11N20_5825_Ant1



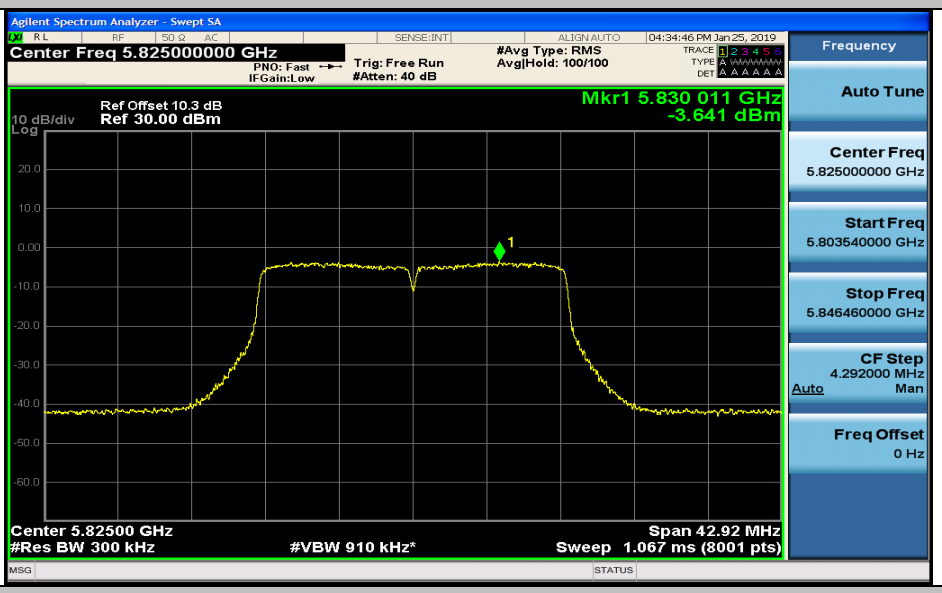
Maximum Power Spectral Density_TNVN_11N40_5755_Ant1

Maximum Power Spectral Density_TNVN_11N40_5795_Ant1

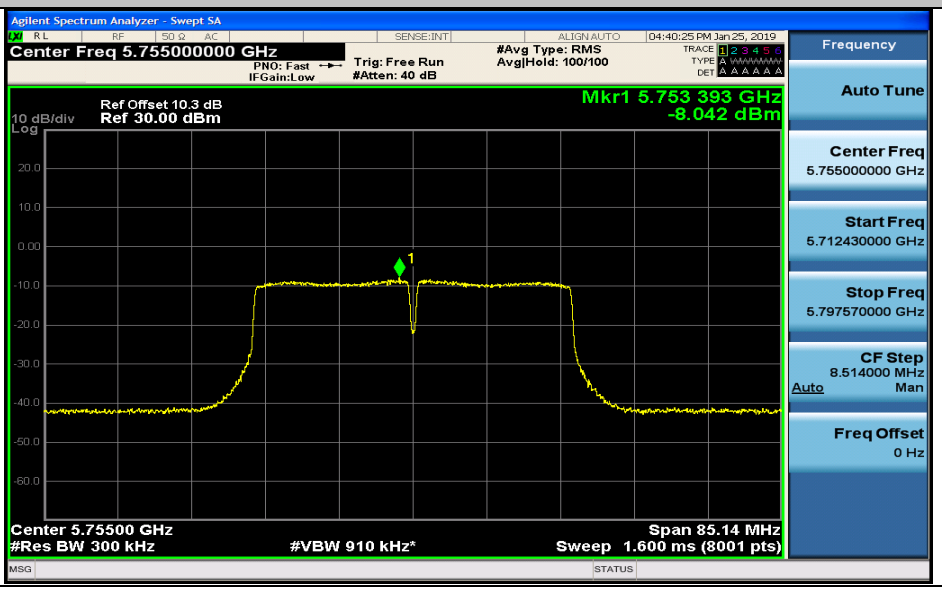
Maximum Power Spectral Density_TNVN_11AC20_5745_Ant1

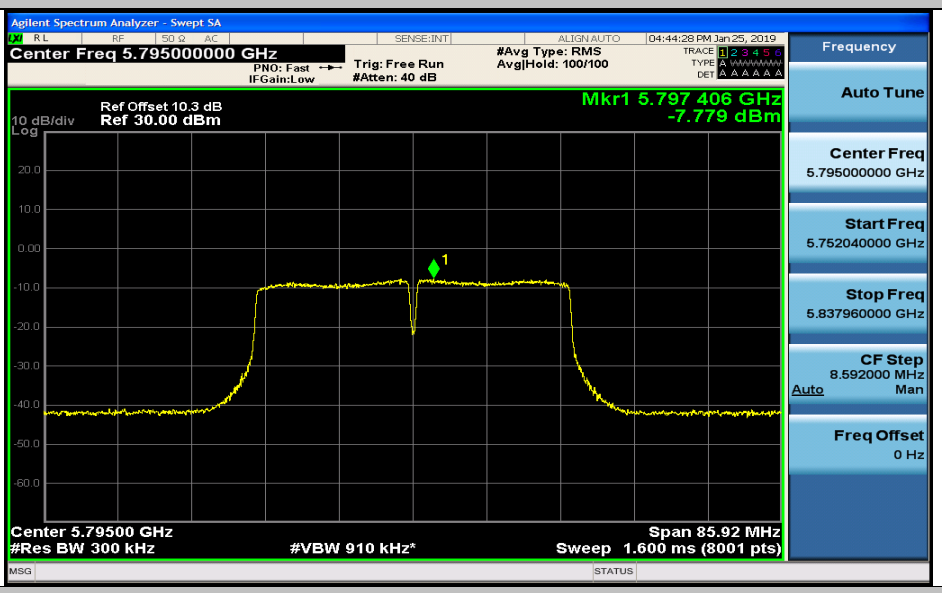
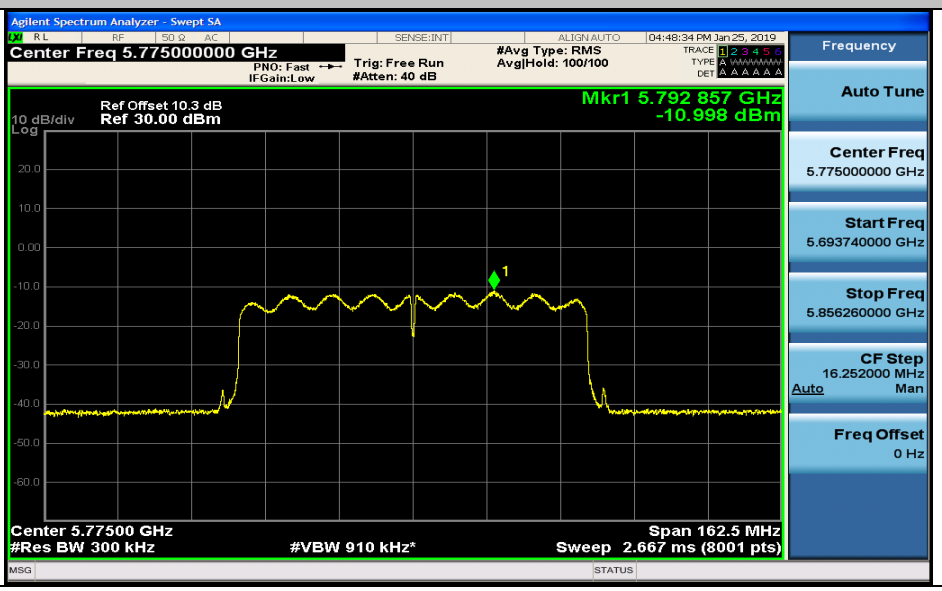
Maximum Power Spectral Density_TNVN_11AC20_5785_Ant1

Maximum Power Spectral Density_TNVN_11AC20_5825_Ant1



Maximum Power Spectral Density_TNVN_11AC40_5755_Ant1



Maximum Power Spectral Density_TNVN_11AC40_5795_Ant1

Maximum Power Spectral Density_TNVN_11AC80_5775_Ant1


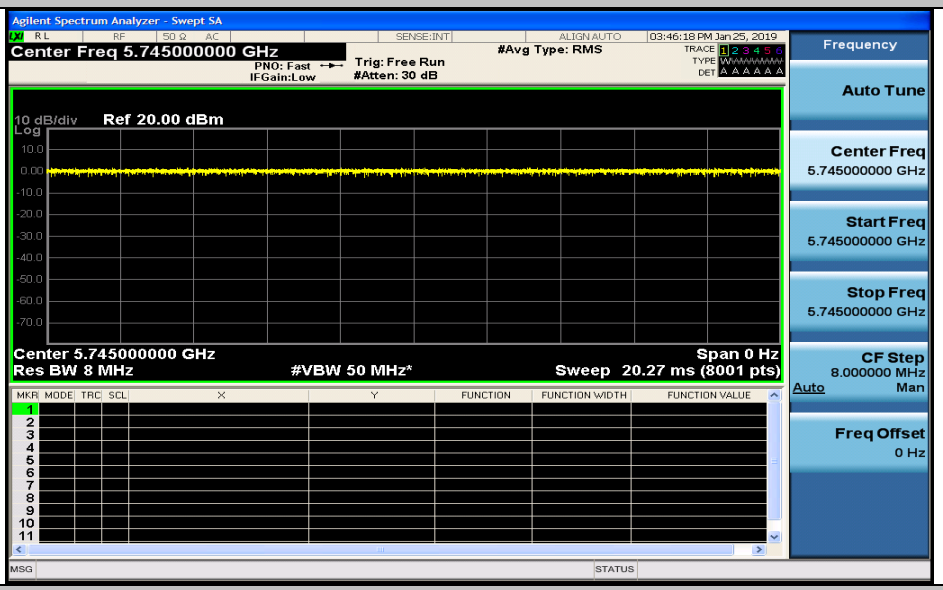
6.Frequency Stability

Band	Test Conditions		Operation Frequency (MHz)	Test Frequency (MHz)	Freq. Dev. (MHz)	Limit (GHz)	Result
	Volt (V DC)	Temp (C°)		ANT1	ANT1		
Band U-NII 3	Normal(12)	Extreme(-20)	5745	5745.0432	0.0432	5.725-5.85	Pass
		Extreme(-10)		5745.0359	0.0359		Pass
		Extreme(0)		5745.0275	0.0275		Pass
		Extreme(+10)		5745.0156	0.0156		Pass
		Extreme(+20)		5745.0278	0.0278		Pass
		Extreme(+30)		5745.0403	0.0403		Pass
		Extreme(+40)		5745.0315	0.0315		Pass
		Extreme(+55)		5745.0249	0.0249		Pass
	Extreme(7.65)	Norma(+20)		5745.0377	0.0377		Pass
	Extreme(36.8)			5745.0438	0.0438		Pass
	Normal(12)	Extreme(-20)	5825	5825.0409	0.0409		Pass
		Extreme(-10)		5825.0412	0.0412		Pass
		Extreme(0)		5825.0237	0.0237		Pass
		Extreme(+10)		5825.0215	0.0215		Pass
		Extreme(+20)		5825.0189	0.0189		Pass
		Extreme(+30)		5825.0339	0.0339		Pass
		Extreme(+40)		5825.0157	0.0157		Pass
		Extreme(+55)		5825.0288	0.0288		Pass
	Extreme(7.65)	Norma(20)		5825.0417	0.0417		Pass
	Extreme(36.8)			5825.0189	0.0189		Pass

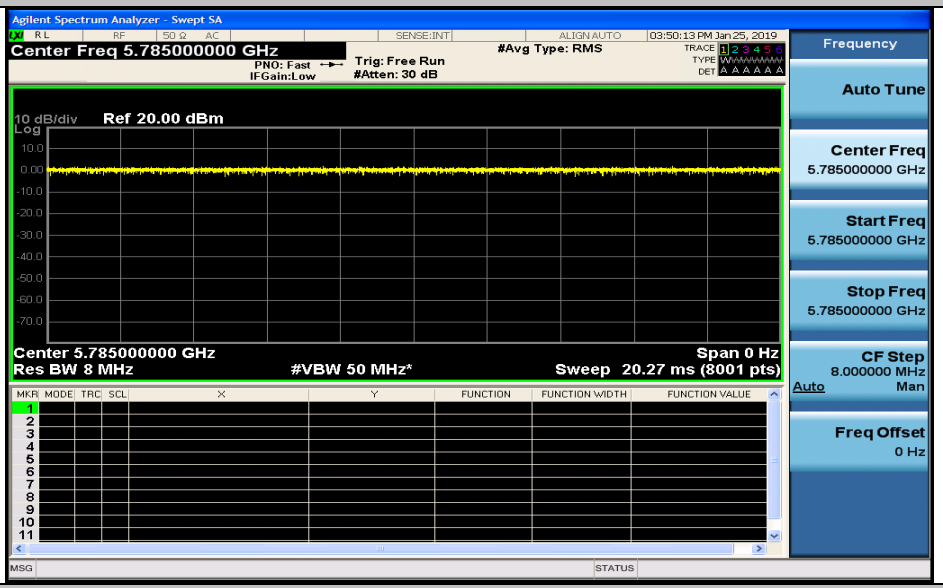
7.Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	10log(1/x) Factor[dB]
11A	5745	Ant1	100.00	0.00
11A	5785	Ant1	100.00	0.00
11A	5825	Ant1	100.00	0.00
11N20	5745	Ant1	100.00	0.00
11N20	5785	Ant1	100.00	0.00
11N20	5825	Ant1	100.00	0.00
11N40	5755	Ant1	100.00	0.00
11N40	5795	Ant1	100.00	0.00
11AC20	5745	Ant1	100.00	0.00
11AC20	5785	Ant1	100.00	0.00
11AC20	5825	Ant1	100.00	0.00
11AC40	5755	Ant1	100.00	0.00
11AC40	5795	Ant1	100.00	0.00
11AC80	5775	Ant1	100.00	0.00

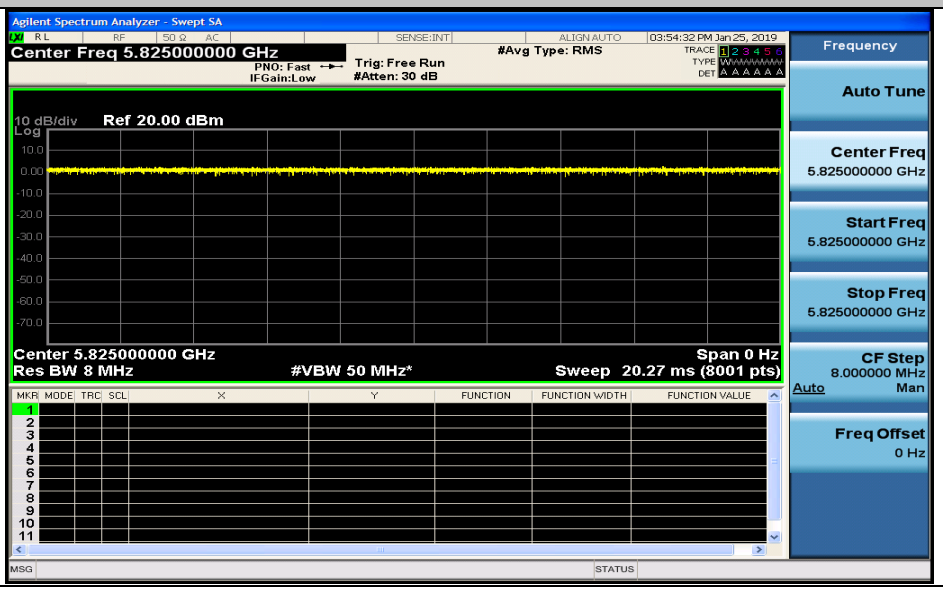
Duty Cycle_11A_5745_Ant1



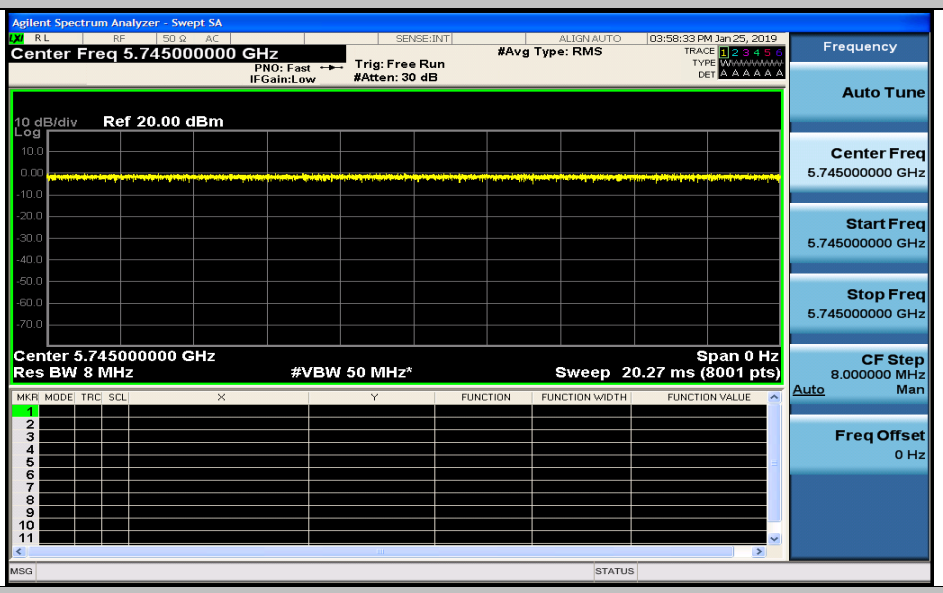
Duty Cycle_11A_5785_Ant1



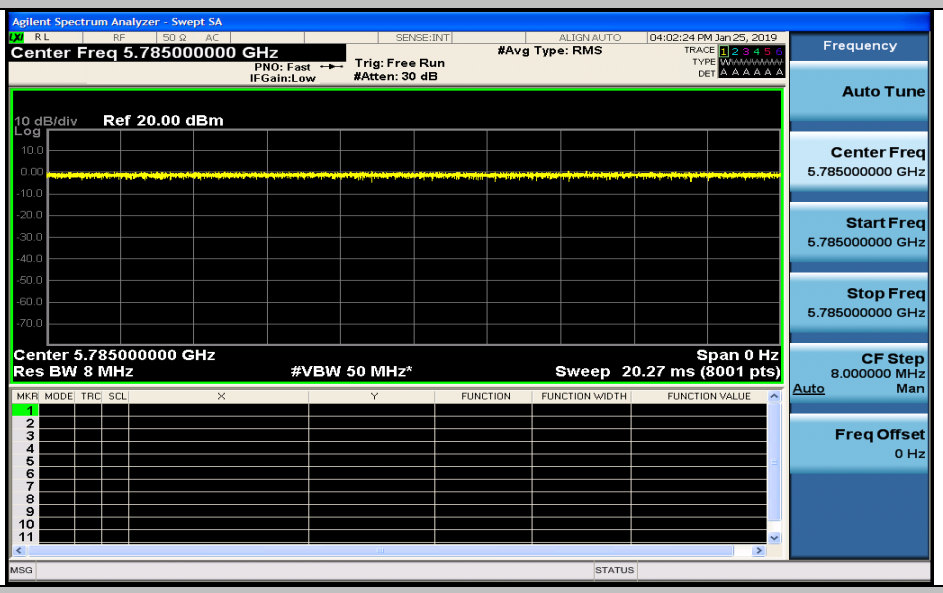
Duty Cycle_11A_5825_Ant1



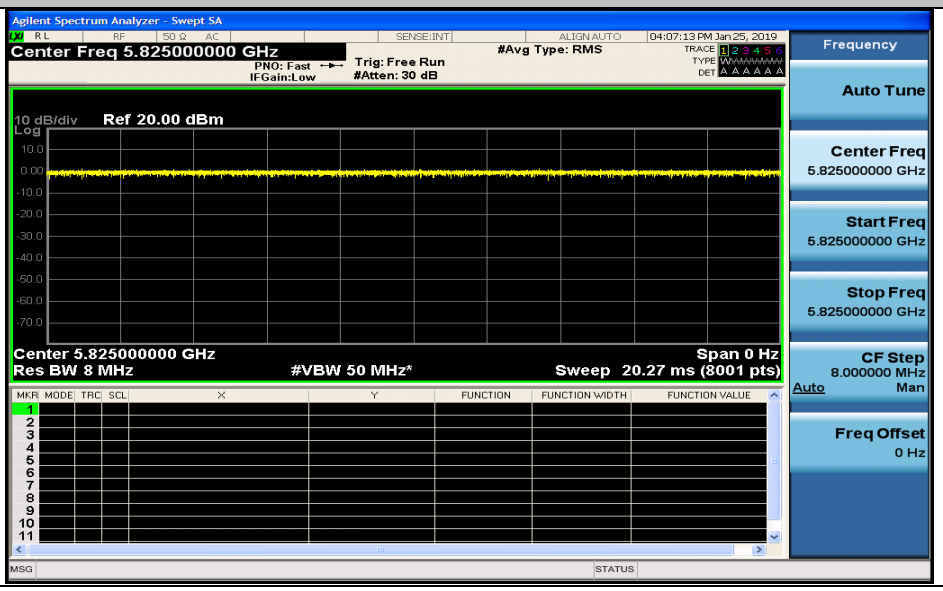
Duty Cycle_11N20_5745_Ant1



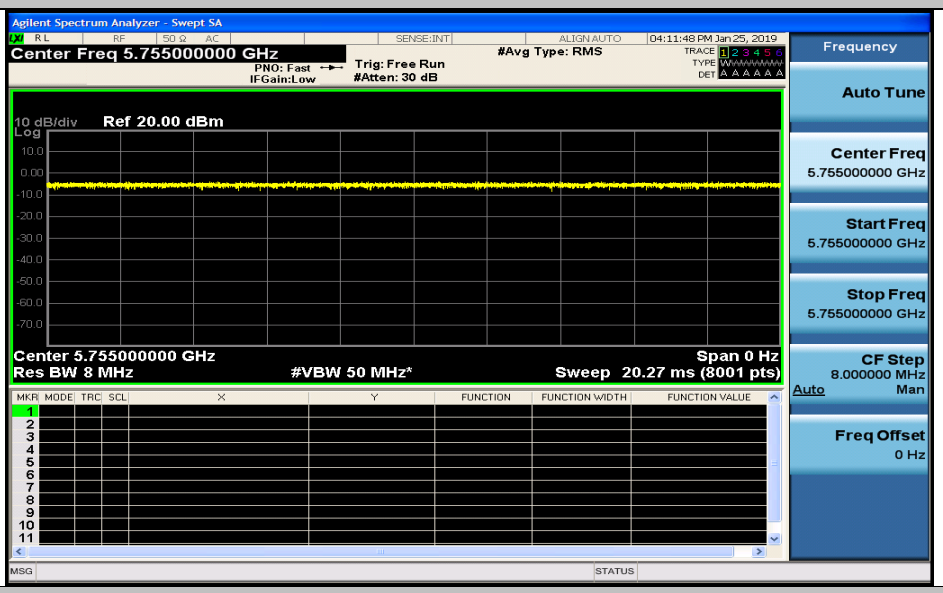
Duty Cycle_11N20_5785_Ant1



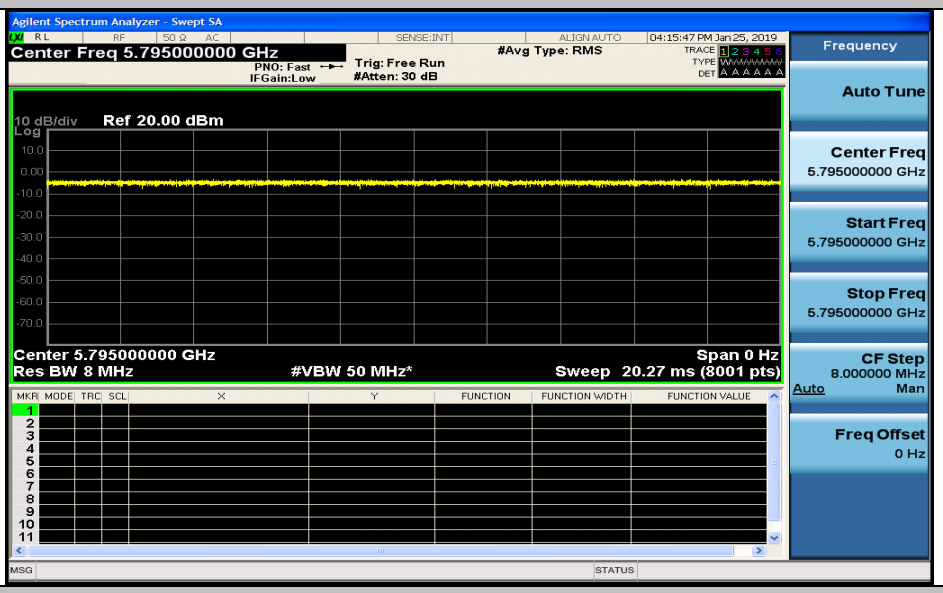
Duty Cycle_11N20_5825_Ant1



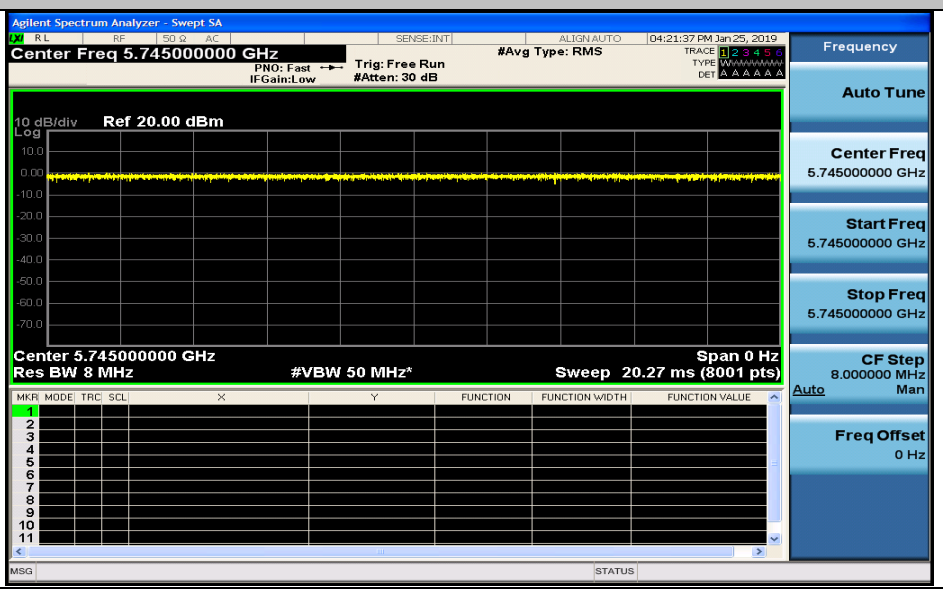
Duty Cycle_11N40_5755_Ant1



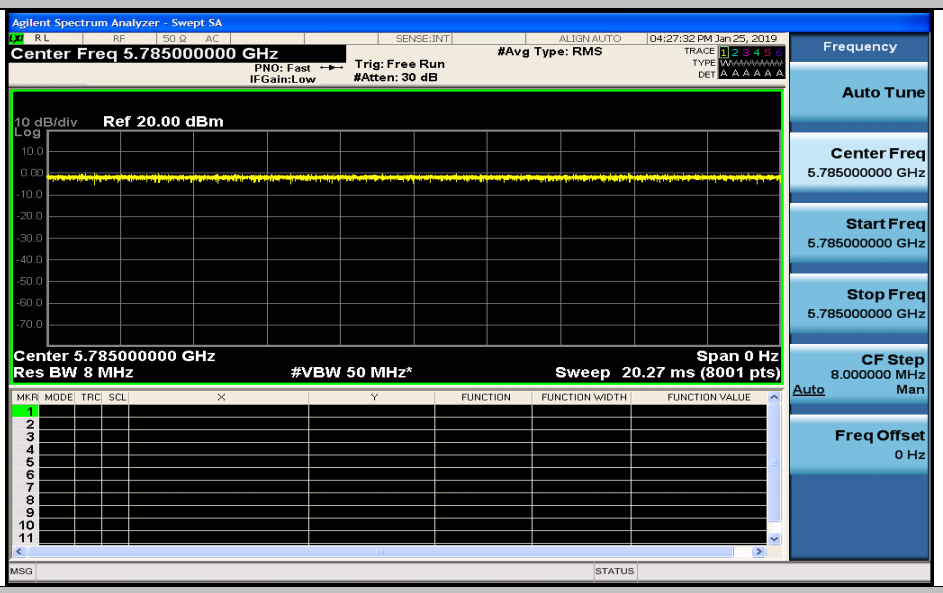
Duty Cycle_11N40_5795_Ant1



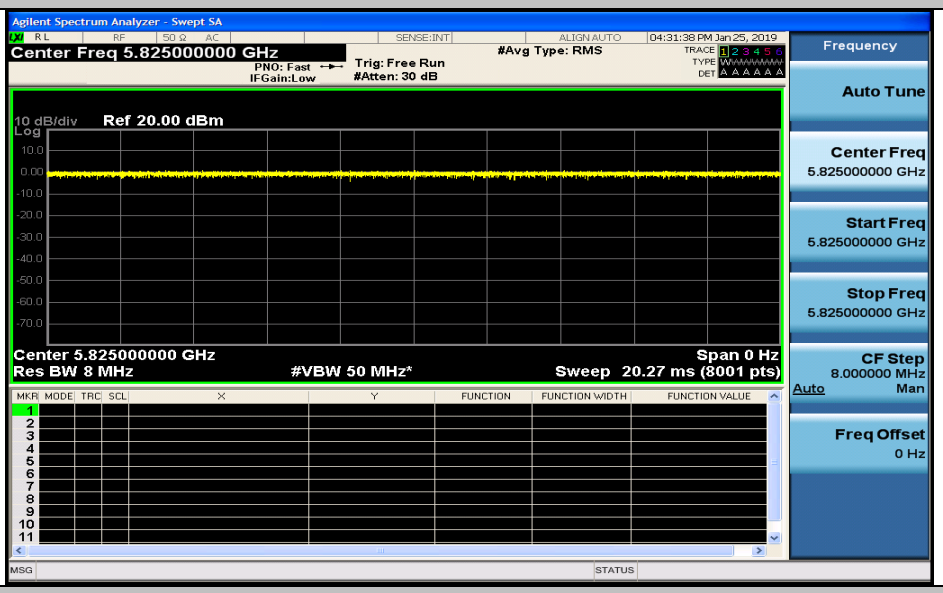
Duty Cycle_11AC20_5745_Ant1



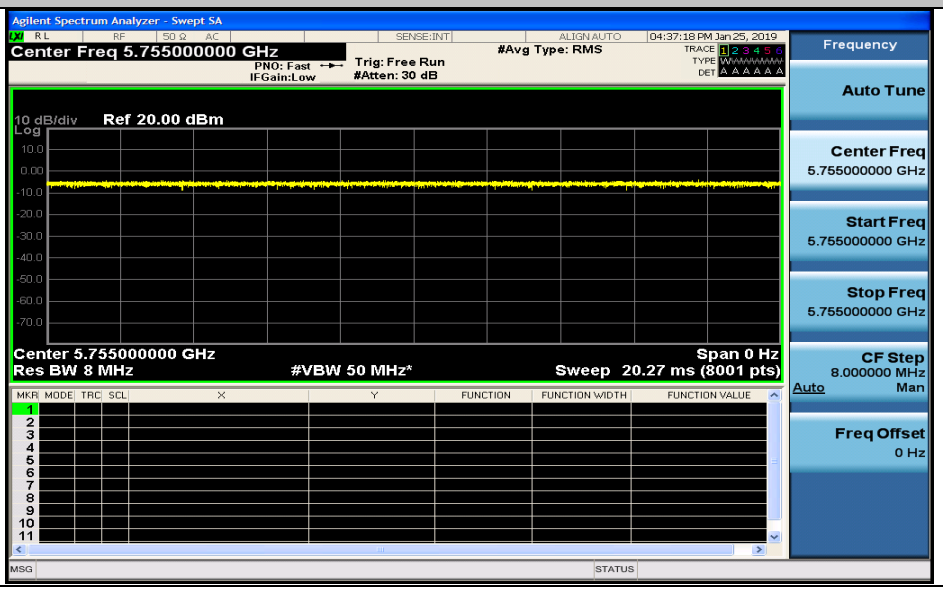
Duty Cycle_11AC20_5785_Ant1



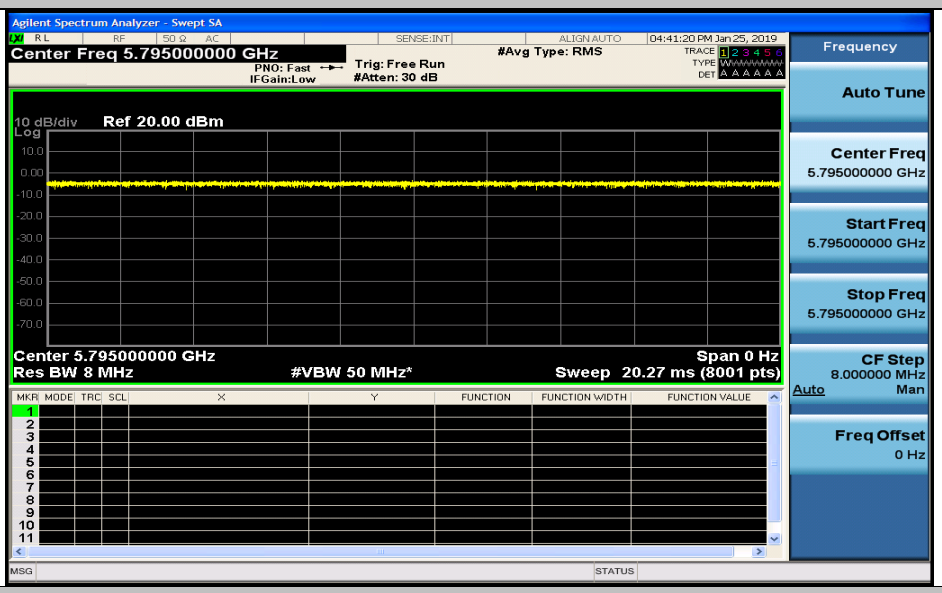
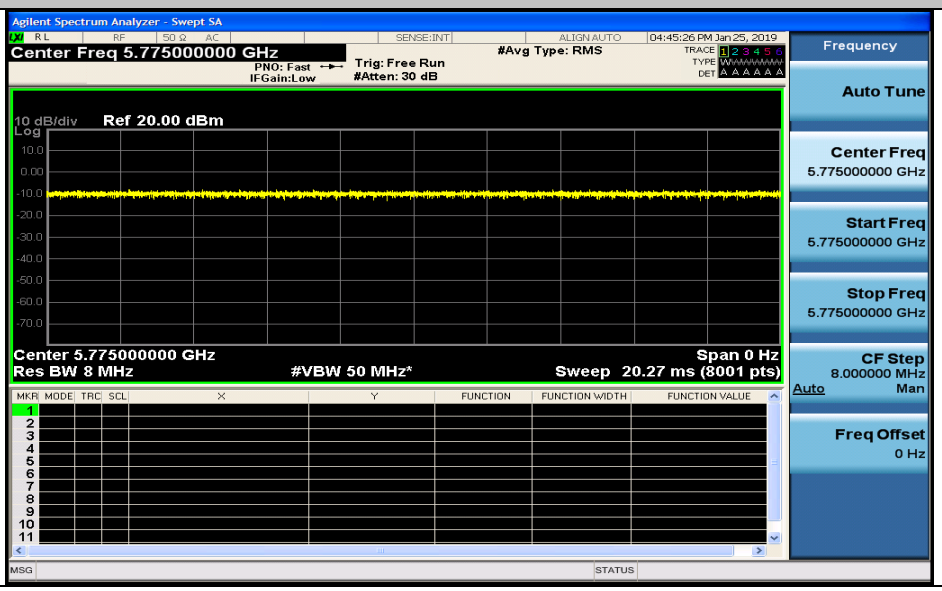
Duty Cycle_11AC20_5825_Ant1



Duty Cycle_11AC40_5755_Ant1



Duty Cycle_11AC40_5795_Ant1



Duty Cycle_11AC80_5775_Ant1