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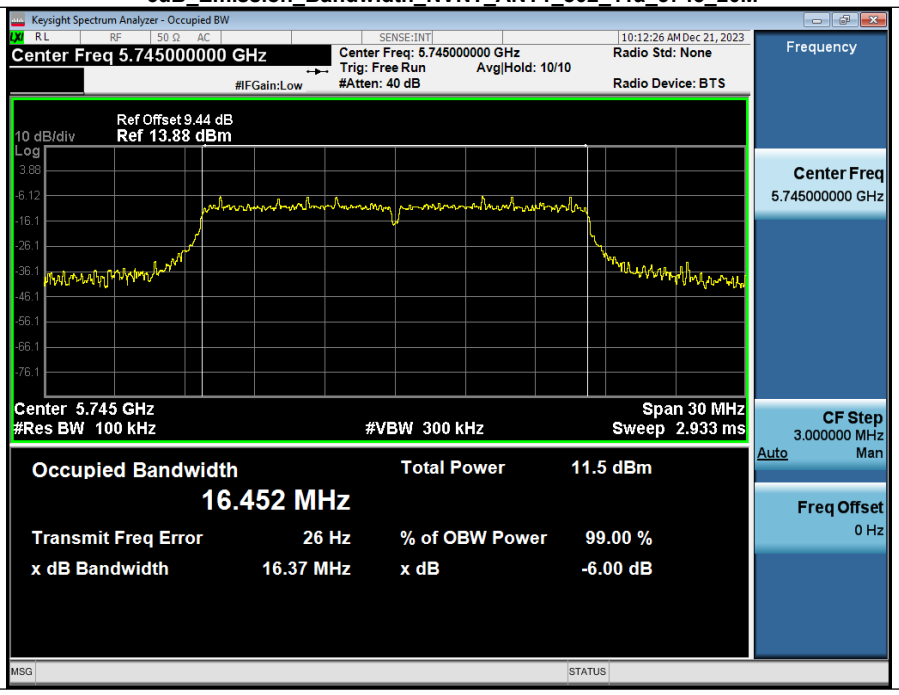
FCC ID WIFI5.8
FCC_5.8G_WIFI (Part15.407) Test Data

1. -6dB Emission Bandwidth

Condition	Antenna	Mode	Frequency(MHz)	-6dB_Emission_Bandwidth(MHz)	Limit(MHz)	Result
NVNT	ANT1	LCH	5745.00	16.372	0.500	Pass
NVNT	ANT1	MCH	5785.00	16.097	0.500	Pass
NVNT	ANT1	HCH	5825.00	16.359	0.500	Pass
NVNT	ANT1	LCH	5745.00	17.388	0.500	Pass
NVNT	ANT1	MCH	5785.00	17.259	0.500	Pass
NVNT	ANT1	HCH	5825.00	17.332	0.500	Pass
NVNT	ANT1	LCH	5755.00	35.473	0.500	Pass
NVNT	ANT1	HCH	5795.00	35.685	0.500	Pass

-6dB_Emission_Bandwidth_NVNT_ANT1_802_11a_5745_20M



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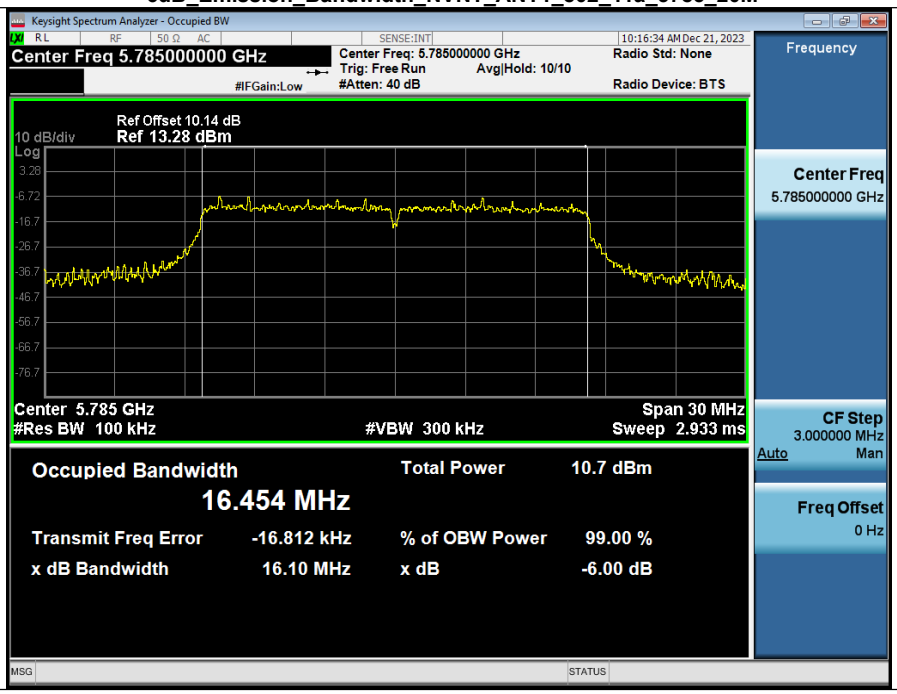

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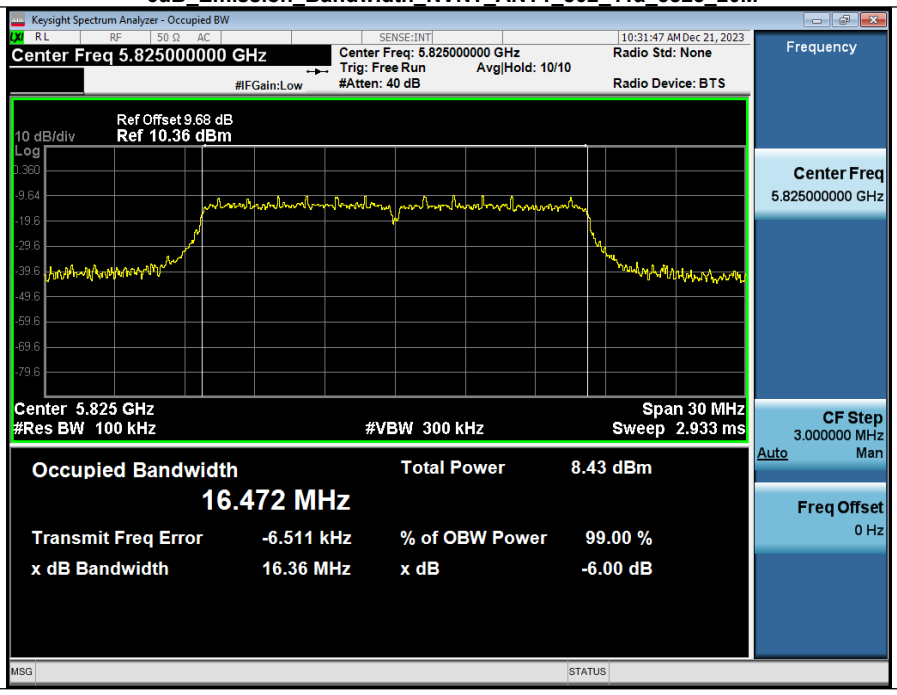
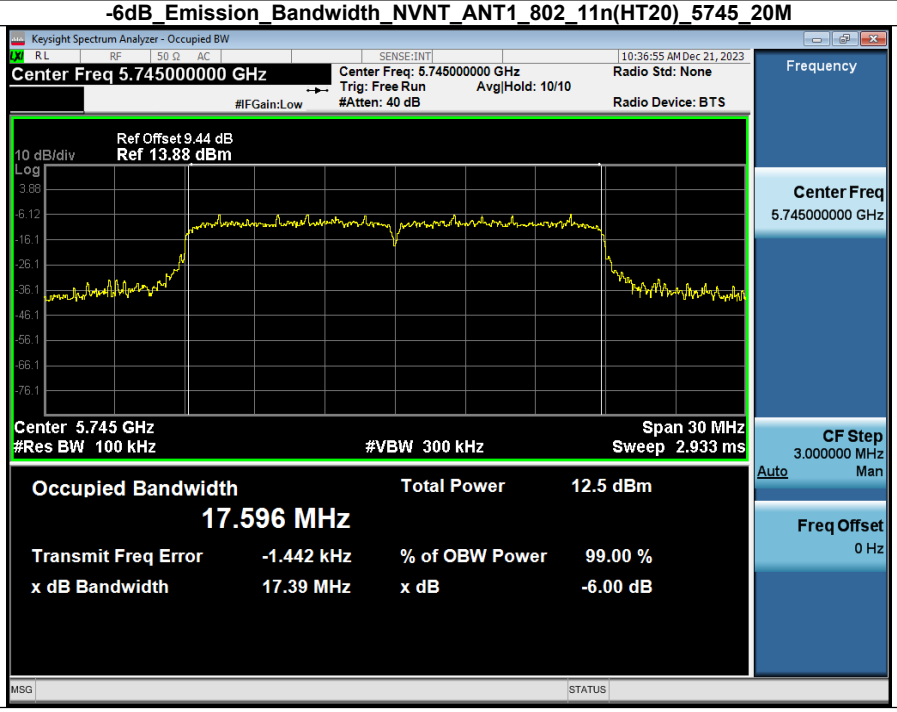
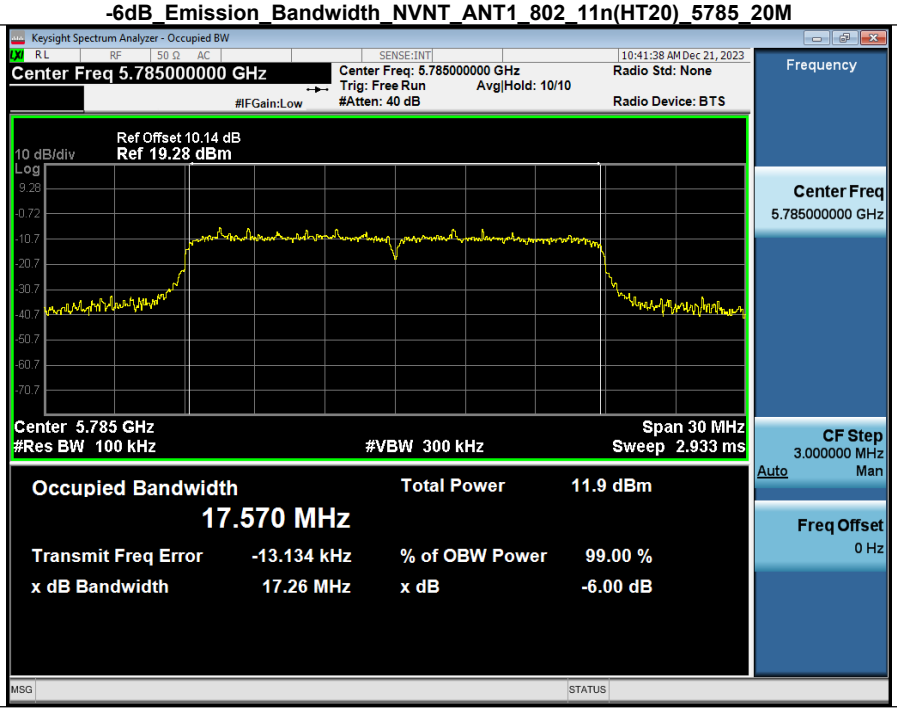


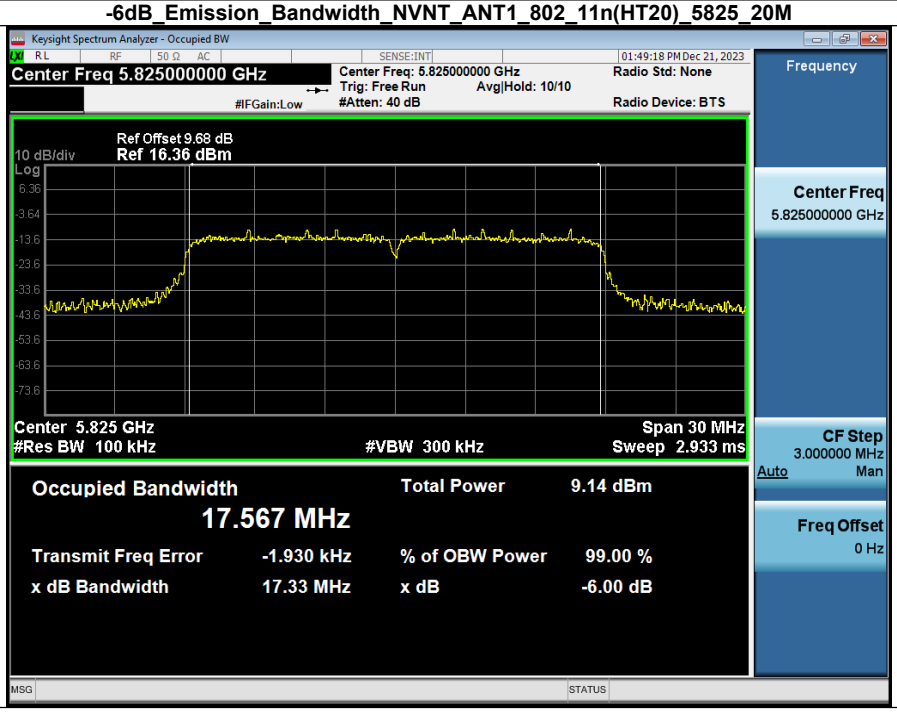
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11n(HT20)_5745_20M



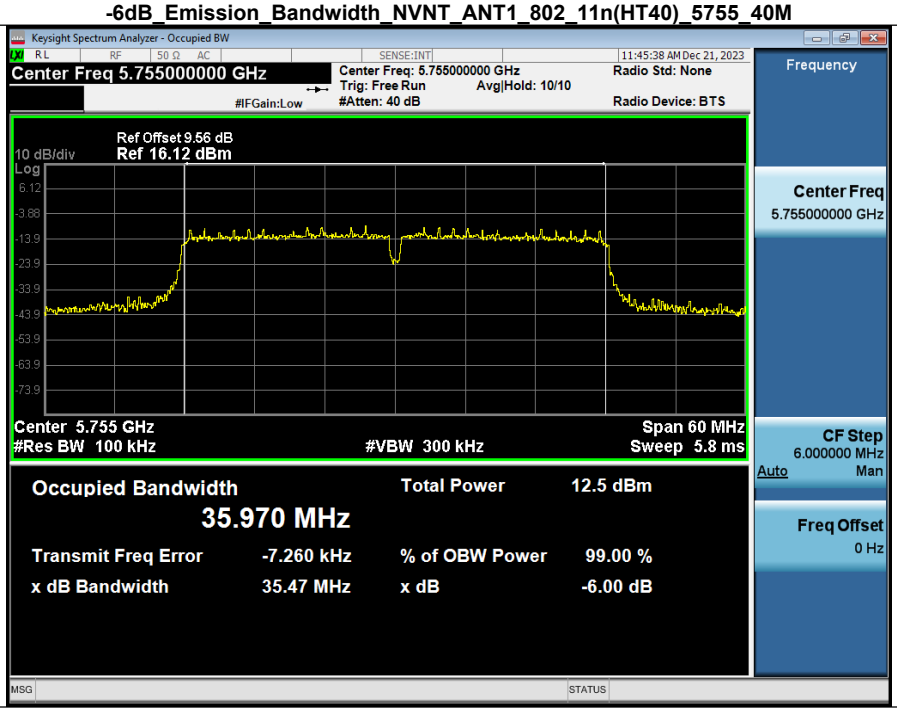
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11n(HT20)_5785_20M



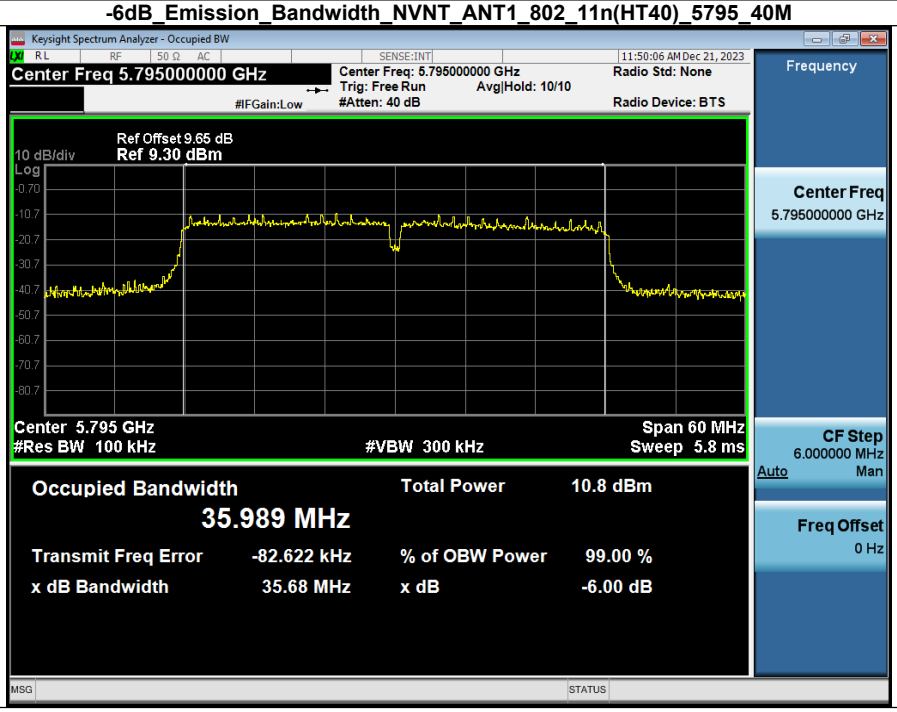
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11n(HT20)_5825_20M



-6dB_Emission_Bandwidth_NVNT_ANT1_802_11n(HT40)_5755_40M



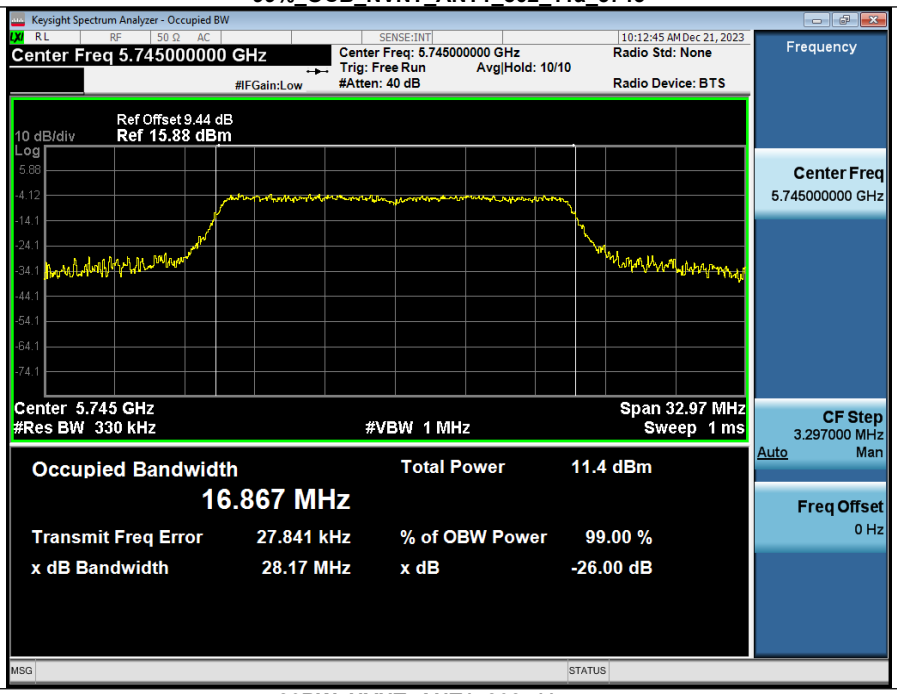
-6dB_Emission_Bandwidth_NVNT_ANT1_802_11n(HT40)_5795_40M



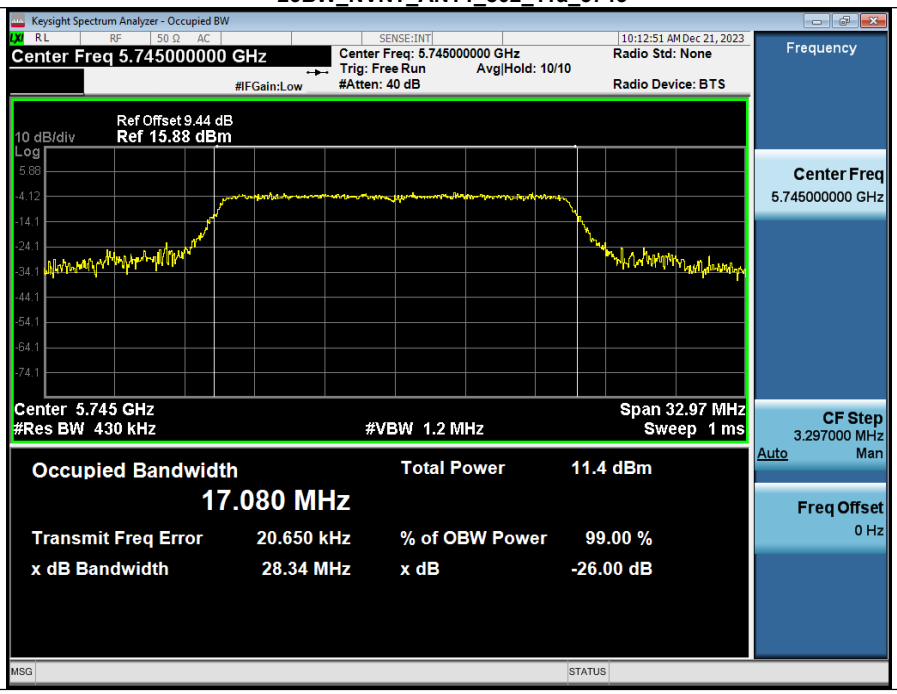
2. -26dB and 99% Emission Bandwidth

Condition	Antenna	Modulation	Frequency(MHz)	-26dB_Emission_Bandwidth(MHz)	Occupied Bandwidth(MHz)
NVNT	ANT1	802.11a	5745.00	28.34	16.87
NVNT	ANT1	802.11a	5785.00	28.41	16.84
NVNT	ANT1	802.11a	5825.00	29.18	16.86
NVNT	ANT1	802.11n(HT20)	5745.00	28.83	17.85
NVNT	ANT1	802.11n(HT20)	5785.00	31.34	17.85
NVNT	ANT1	802.11n(HT20)	5825.00	31.33	17.84
NVNT	ANT1	802.11n(HT40)	5755.00	47.59	36.27
NVNT	ANT1	802.11n(HT40)	5795.00	52.77	36.37

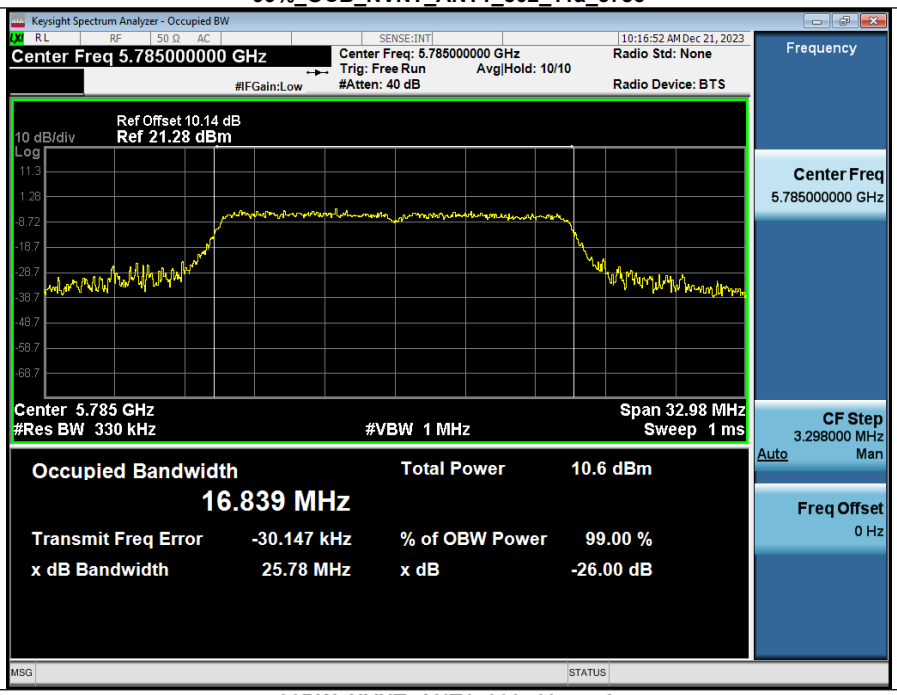
99%_OCB_NVNT_ANT1_802_11a_5745



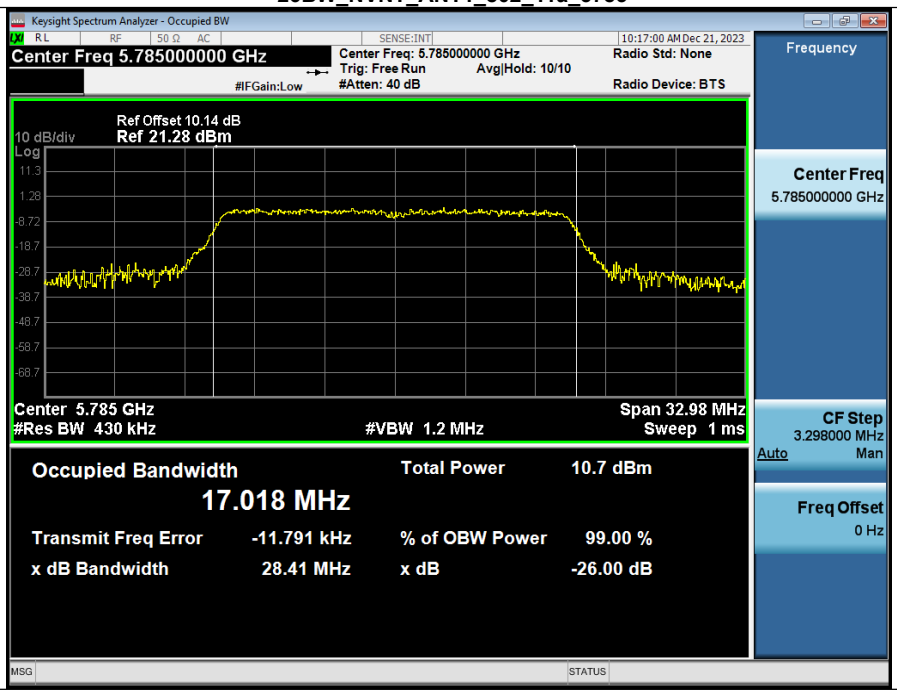
-26BW_NVNT_ANT1_802_11a_5745



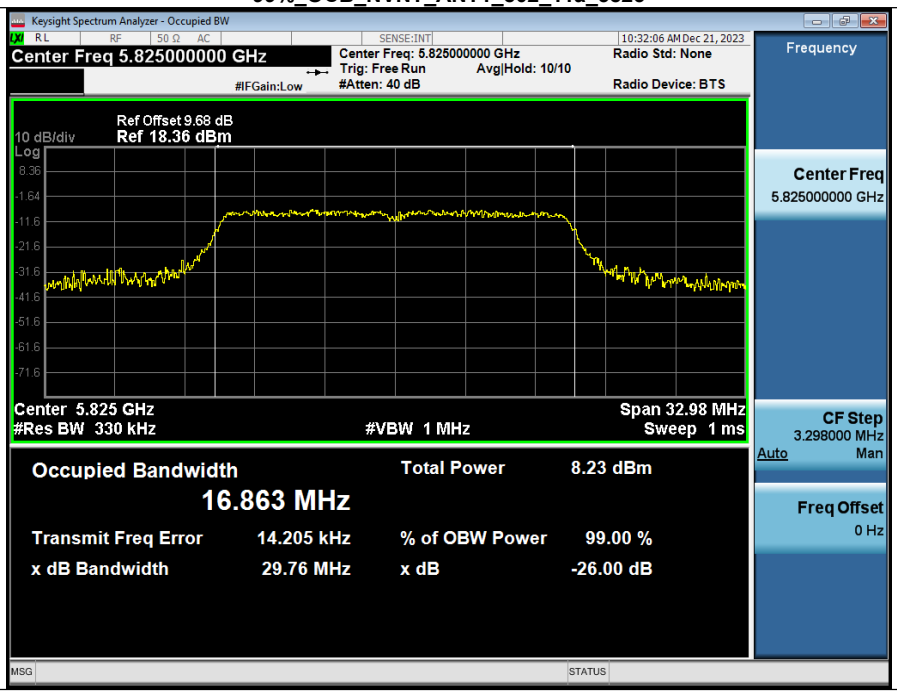
99%_OCB_NVNT_ANT1_802_11a_5785



-26BW_NVNT_ANT1_802_11a_5785



99%_OCB_NVNT_ANT1_802_11a_5825



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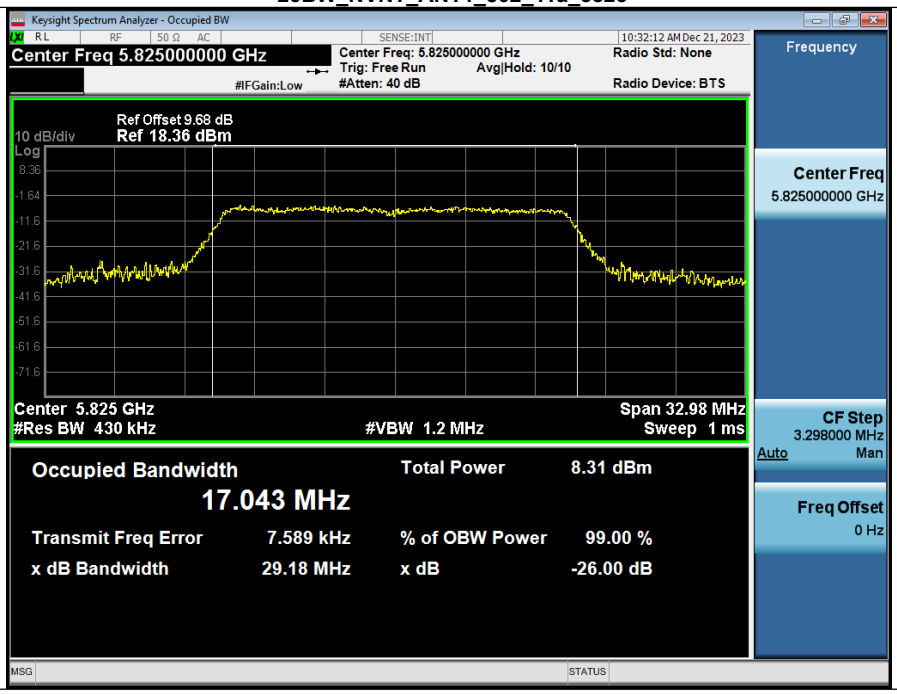
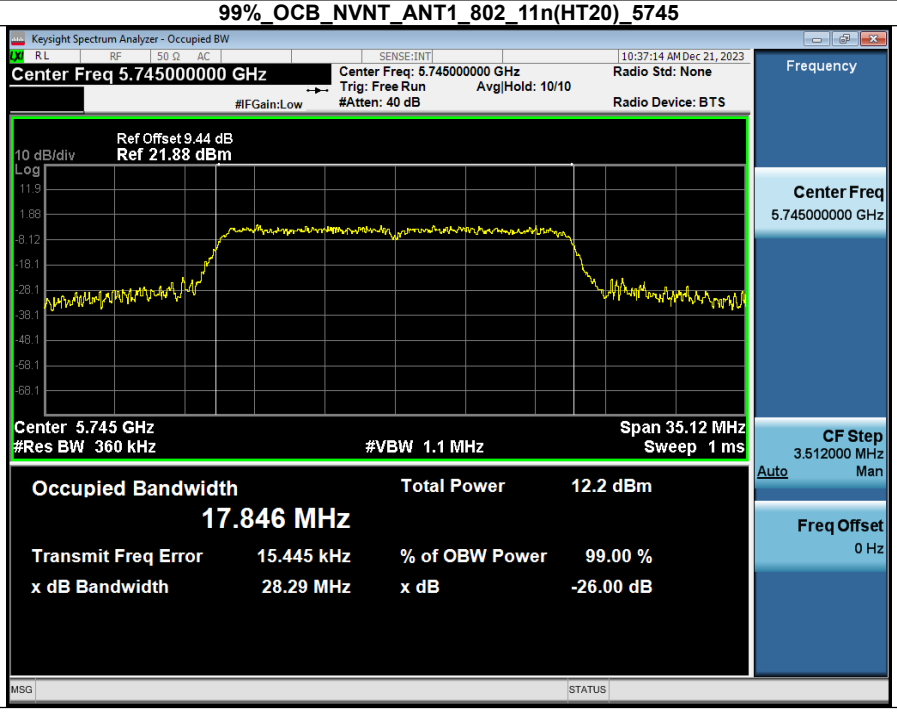


99%_OCB_NVNT_ANT1_802_11n(HT20)_5745



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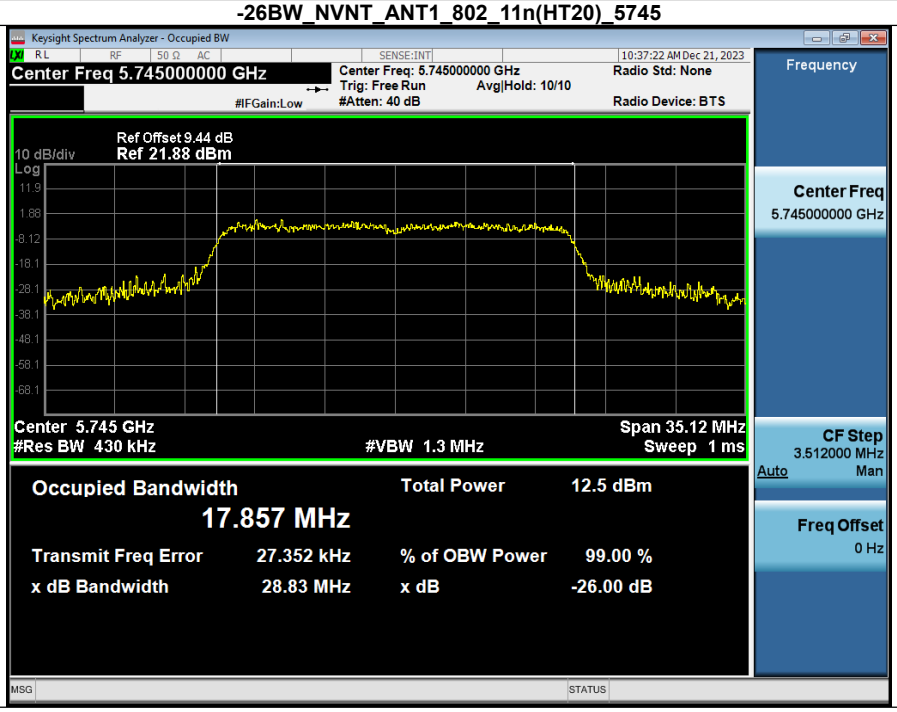
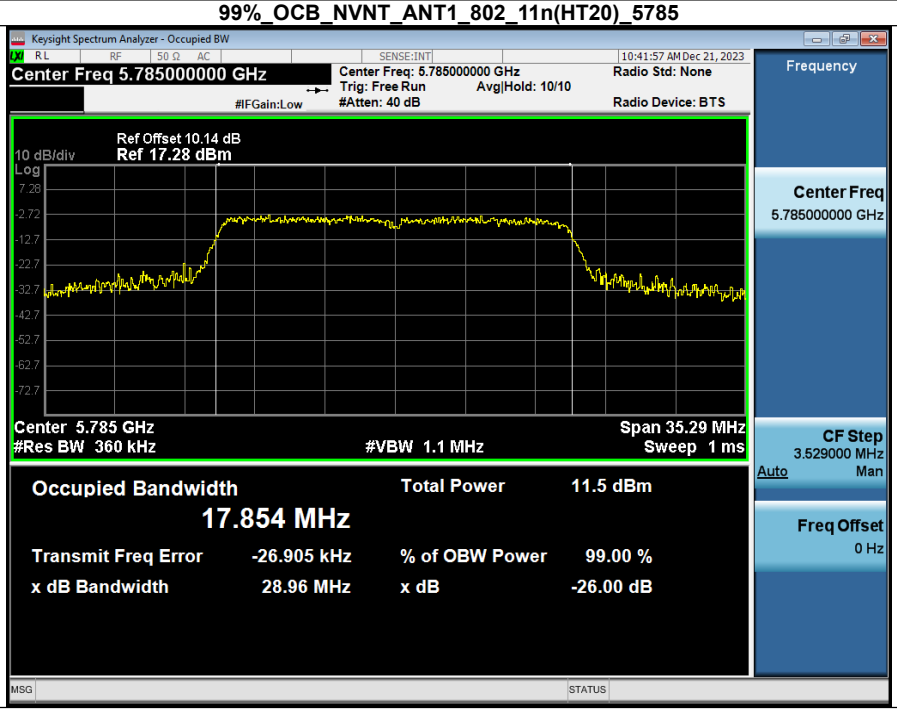


99%_OCB_NVNT_ANT1_802_11n(HT20)_5785



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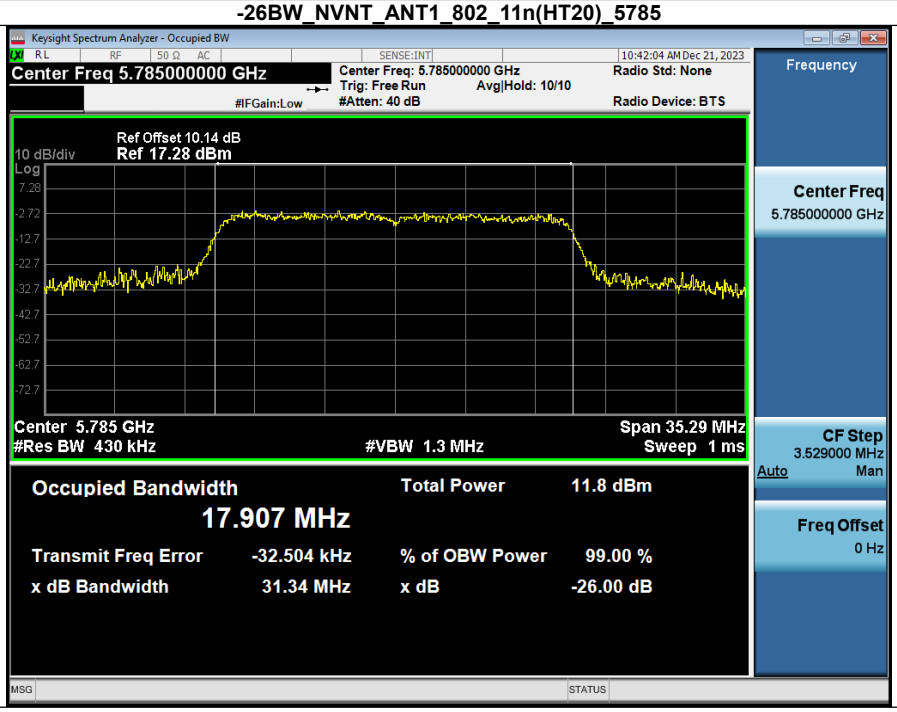
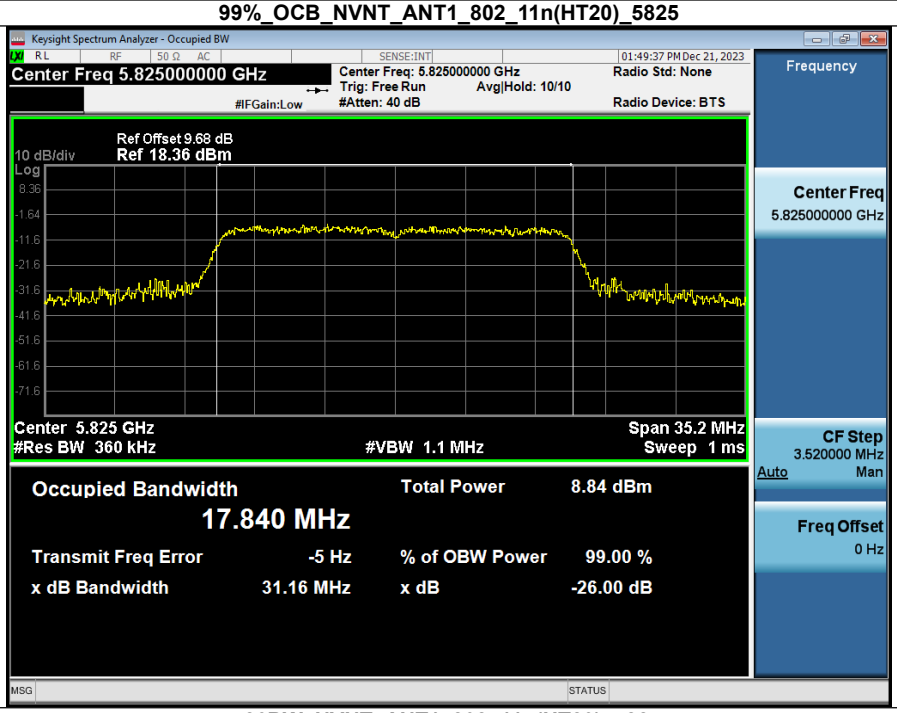


99%_OCB_NVNT_ANT1_802_11n(HT20)_5825



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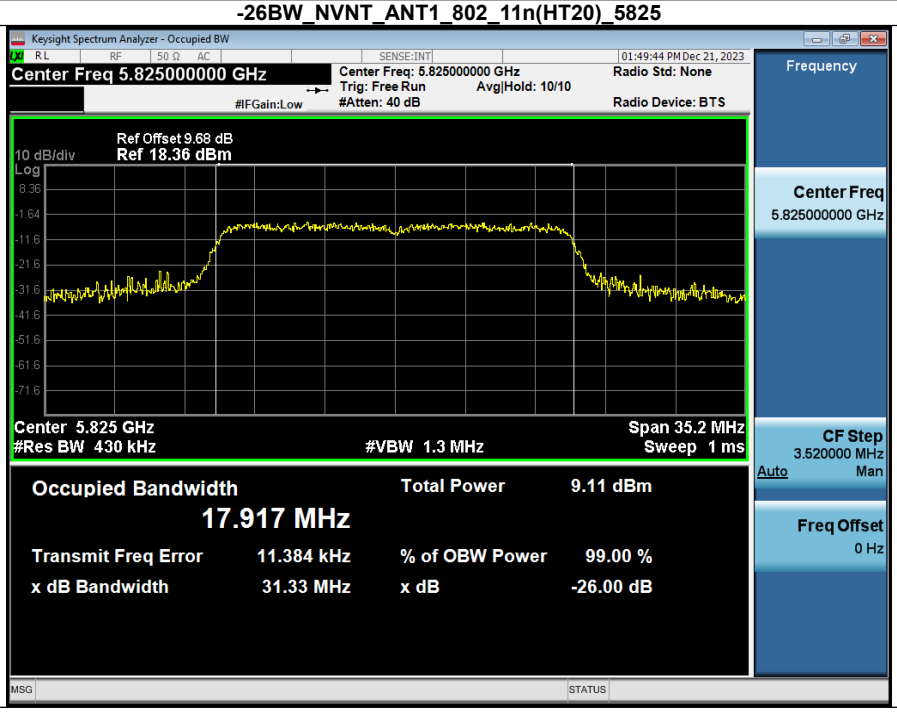
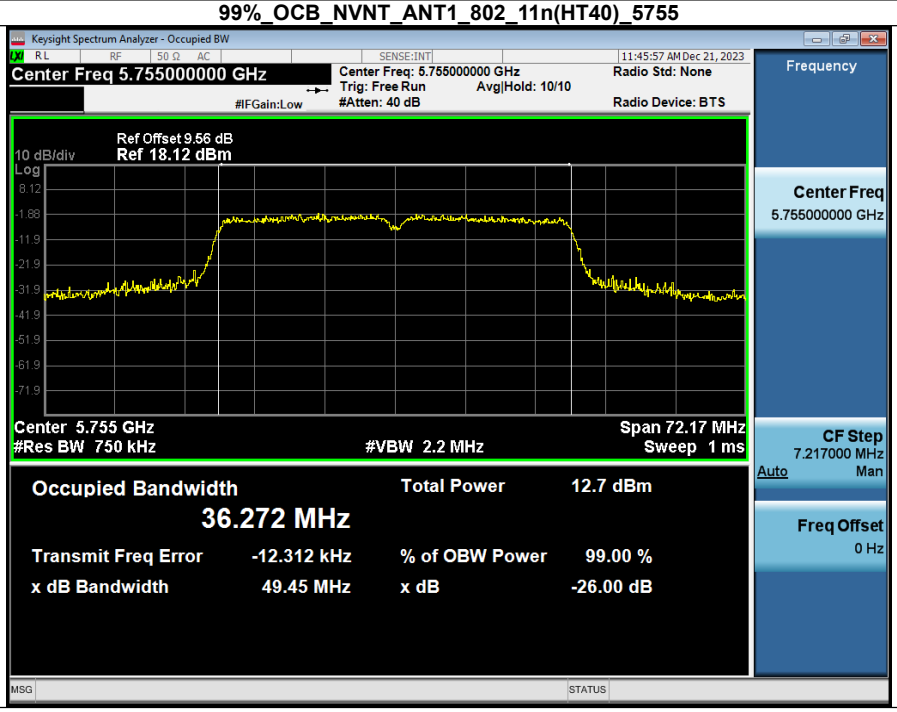
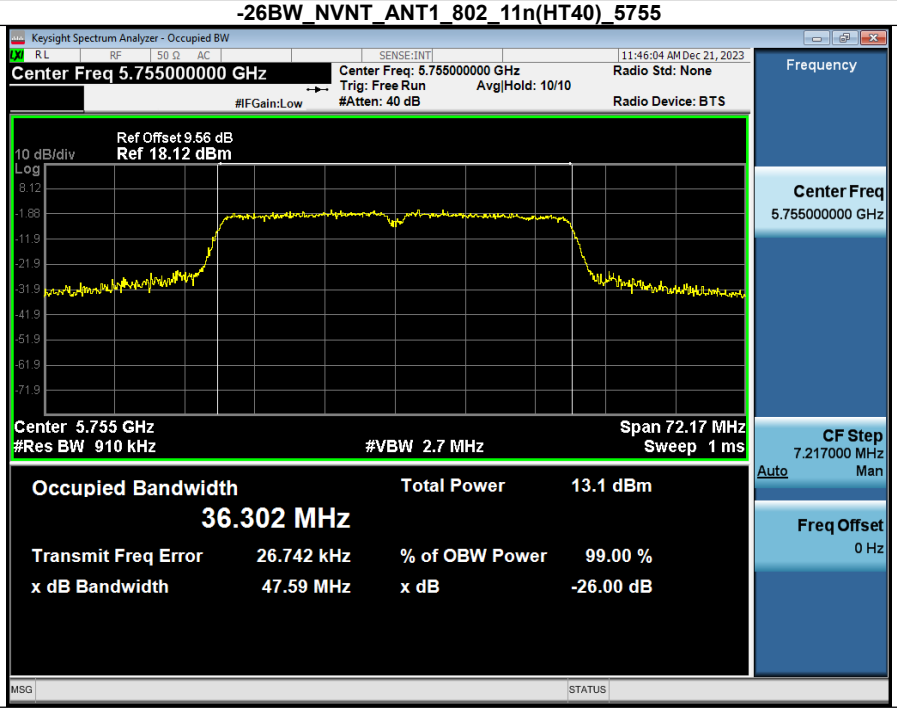


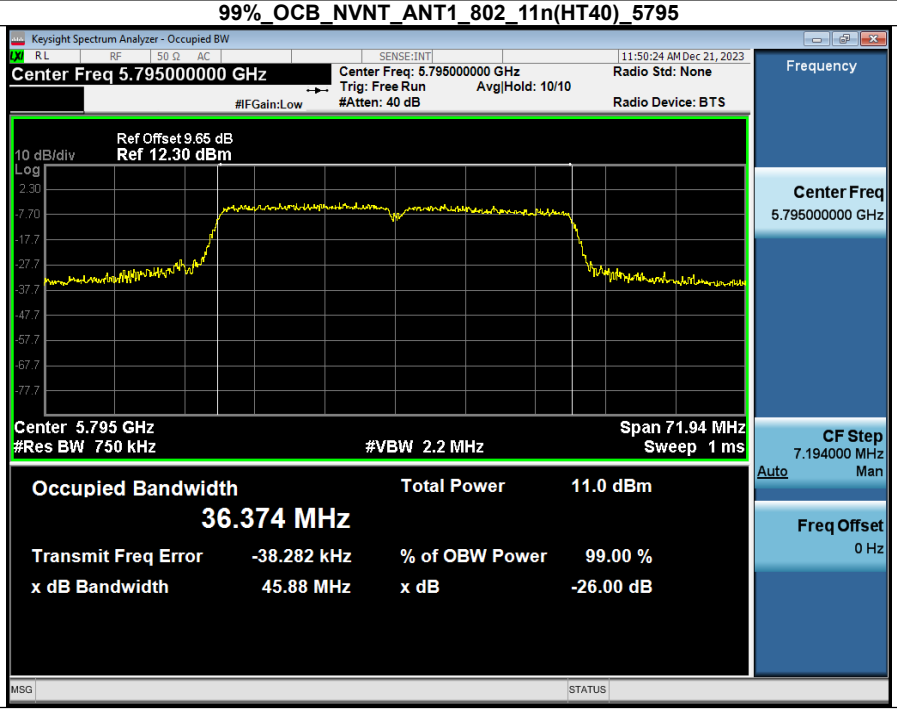
99%_OCB_NVNT_ANT1_802_11n(HT40)_5755



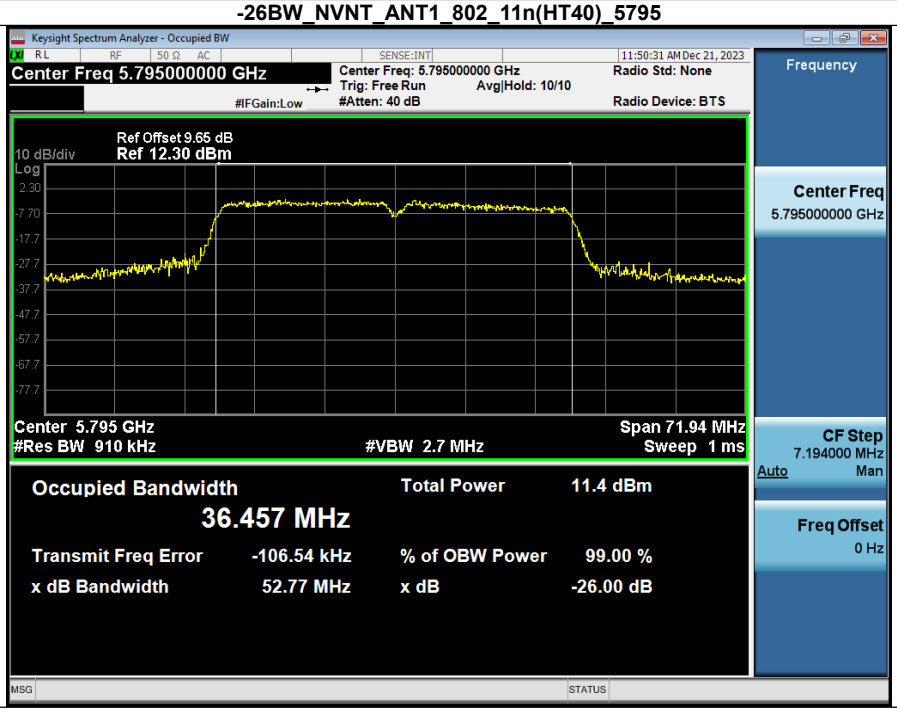
-26BW_NVNT_ANT1_802_11n(HT40)_5755



99%_OCB_NVNT_ANT1_802_11n(HT40)_5795



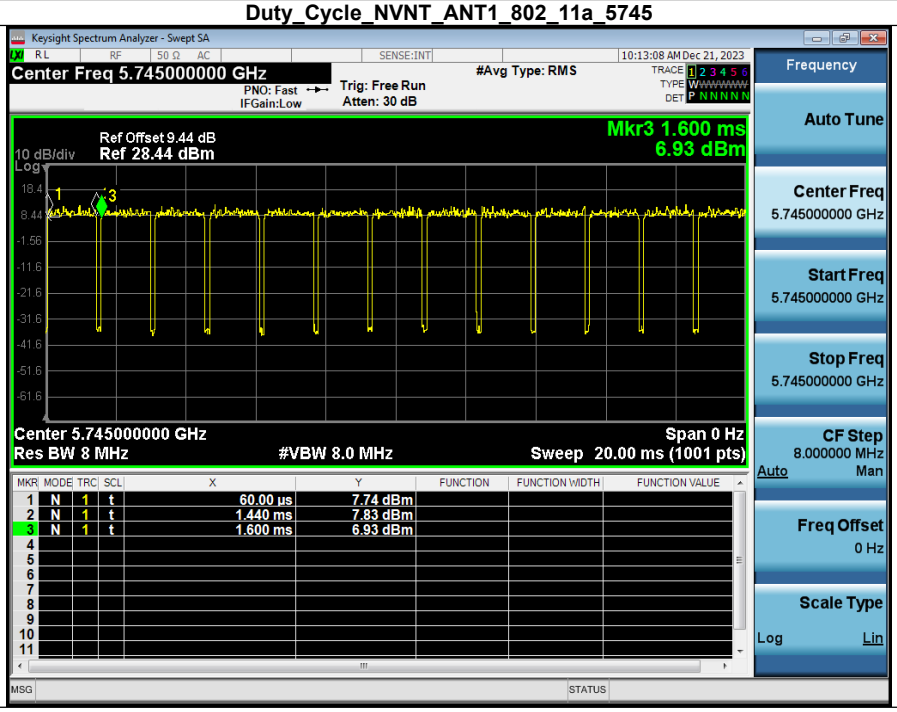
-26BW_NVNT_ANT1_802_11n(HT40)_5795



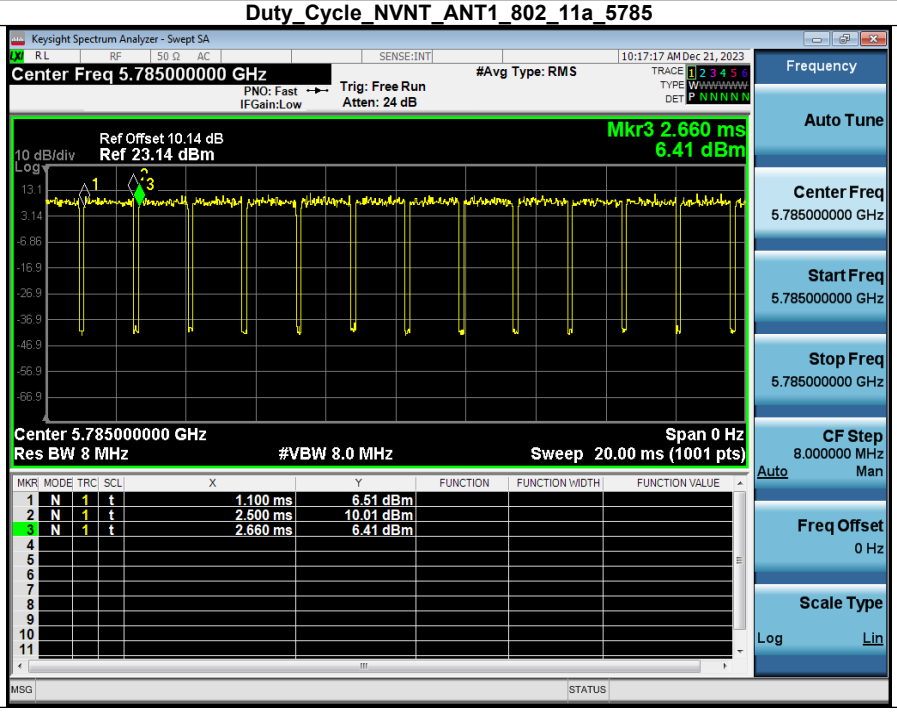
3. Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty_factor
NVNT	ANT1	802.11a	5745.00	89.61	0.48
NVNT	ANT1	802.11a	5785.00	89.74	0.47
NVNT	ANT1	802.11a	5825.00	89.74	0.47
NVNT	ANT1	802.11n(HT20)	5745.00	89.39	0.49
NVNT	ANT1	802.11n(HT20)	5785.00	88.06	0.55
NVNT	ANT1	802.11n(HT20)	5825.00	88.06	0.55
NVNT	ANT1	802.11n(HT40)	5755.00	78.38	1.06
NVNT	ANT1	802.11n(HT40)	5795.00	78.38	1.06

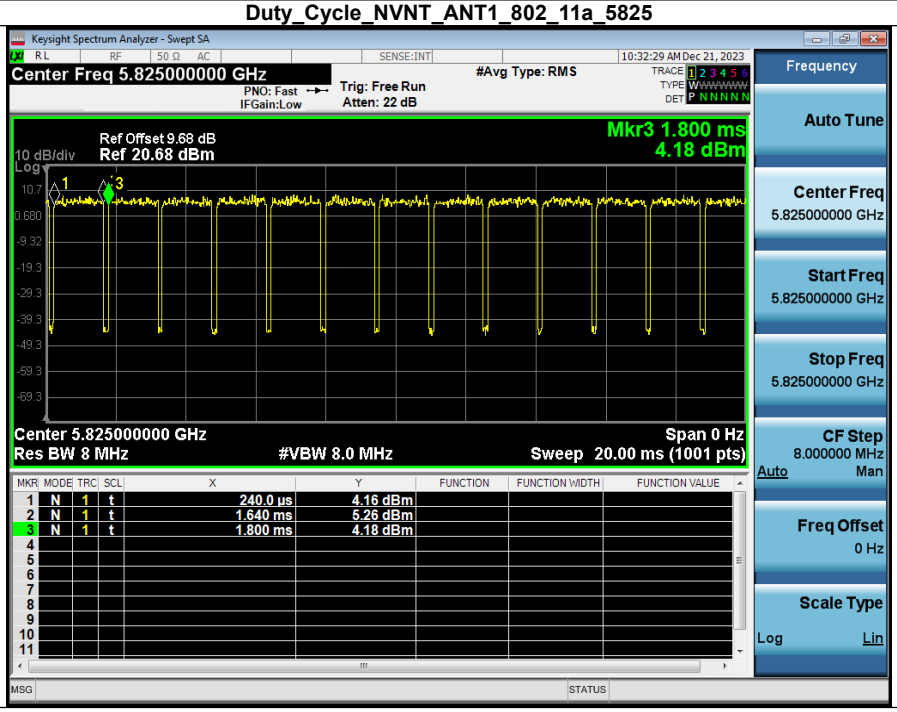
Duty_Cycle_NVNT_ANT1_802_11a_5745



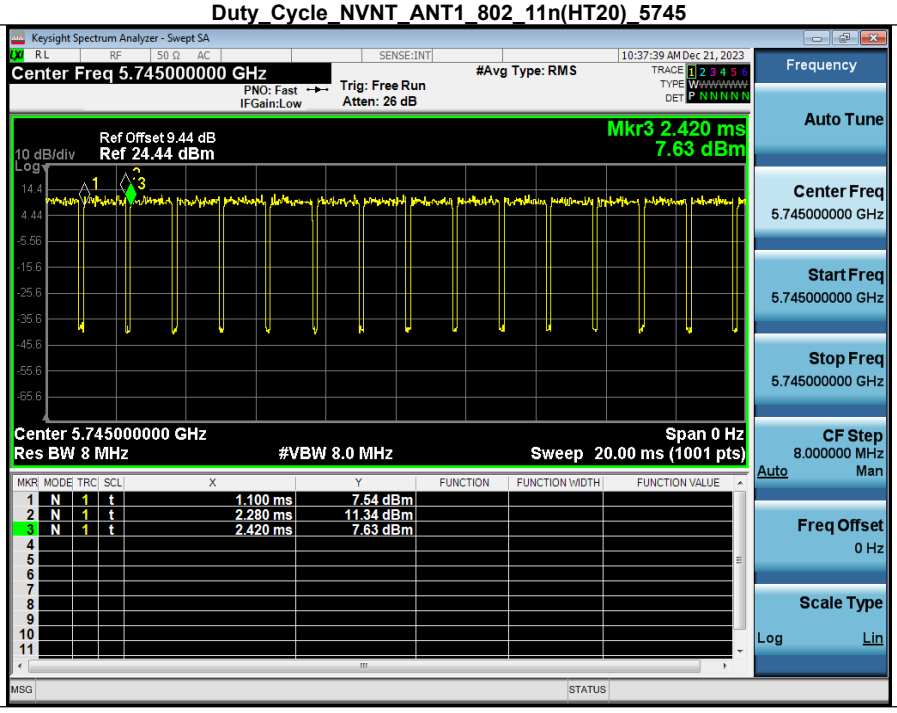
Duty_Cycle_NVNT_ANT1_802_11a_5785



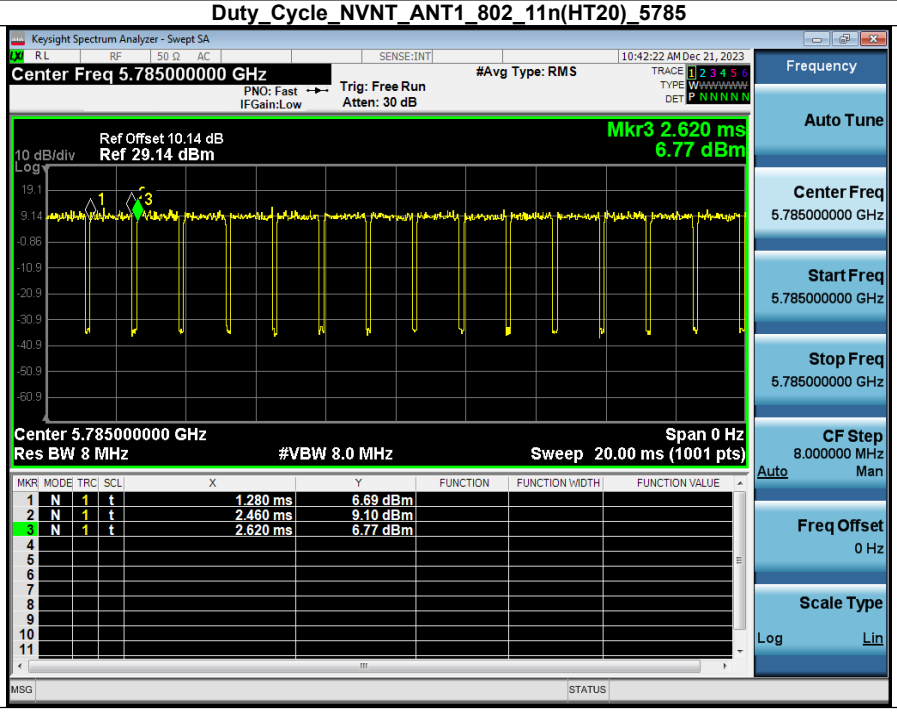
Duty_Cycle_NVNT_ANT1_802_11a_5825



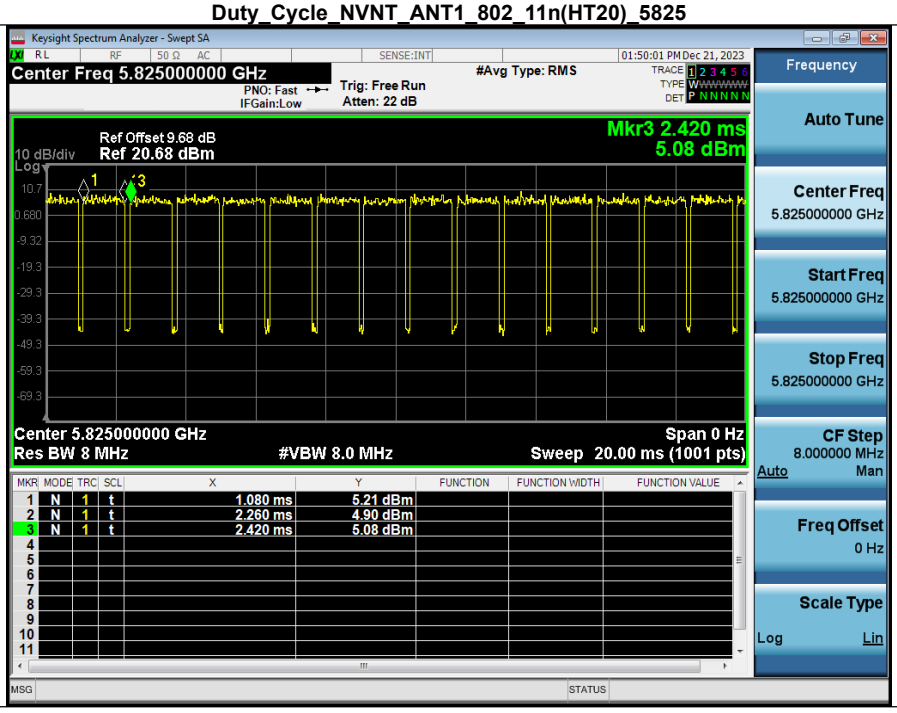
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5745



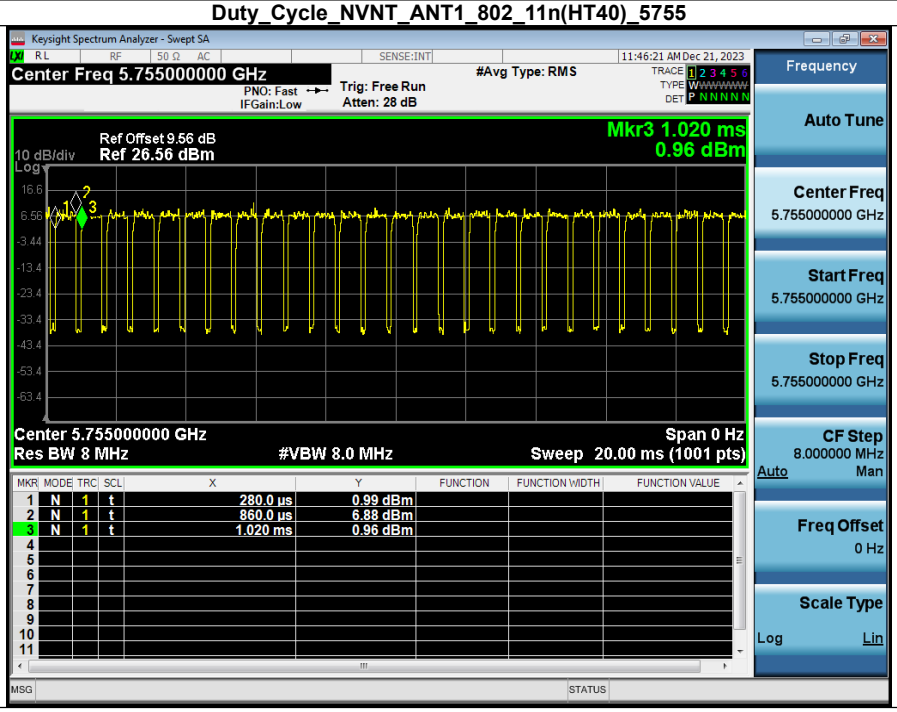
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5785



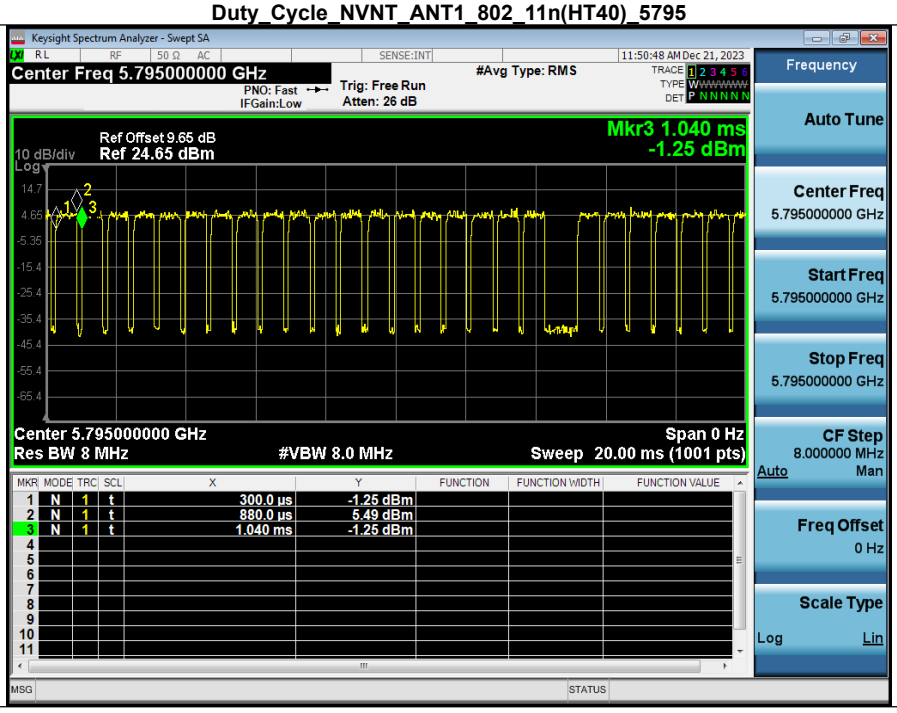
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_5825



Duty_Cycle_NVNT_ANT1_802_11n(HT40)_5755



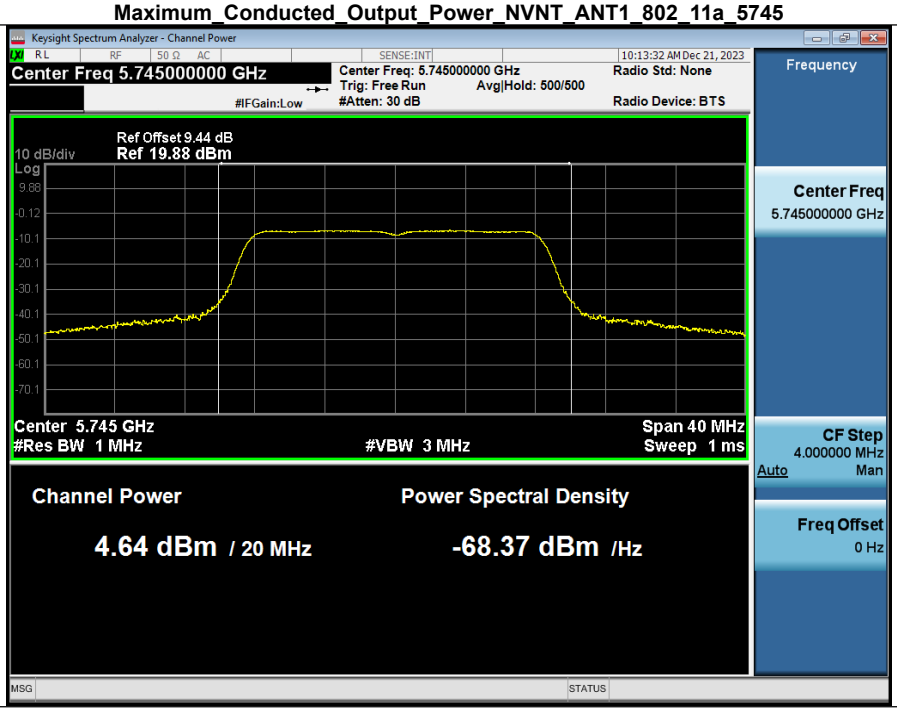
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_5795



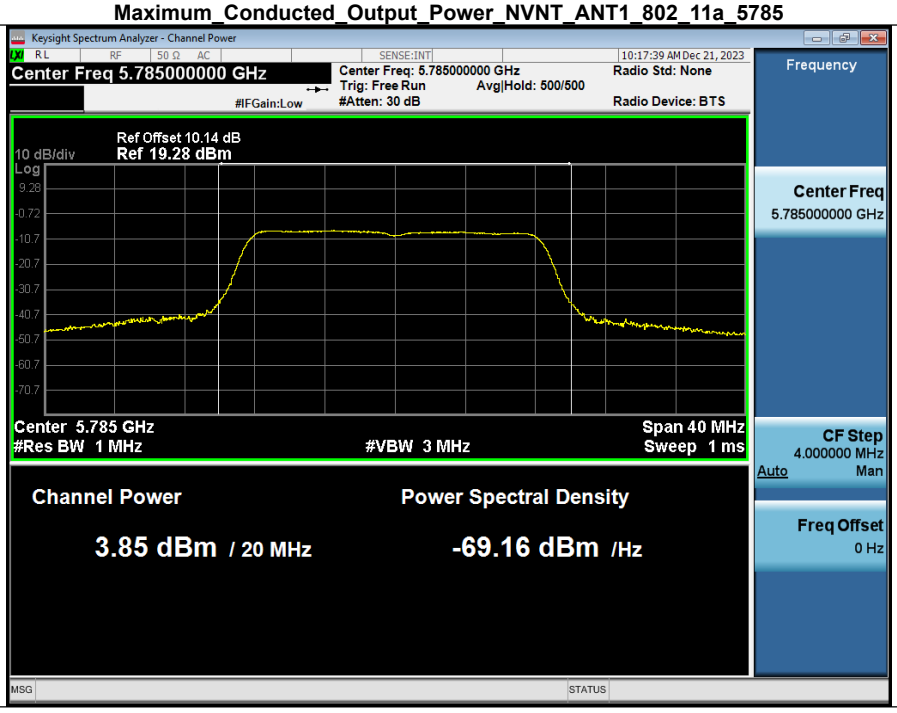
4. Maximum Conducted Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Conducted Power(dBm)	Duty factor(dB)	Total Power(dBm)	limit(dBm)	Result
NVNT	ANT1	802.11a	5745.00	4.64	0.48	5.12	30	Pass
NVNT	ANT1	802.11a	5785.00	3.85	0.47	4.32	30	Pass
NVNT	ANT1	802.11a	5825.00	1.48	0.47	1.95	30	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	5.19	0.49	5.68	30	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	4.56	0.55	5.11	30	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	1.79	0.55	2.34	30	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	4.41	1.06	5.47	30	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	2.76	1.06	3.82	30	Pass

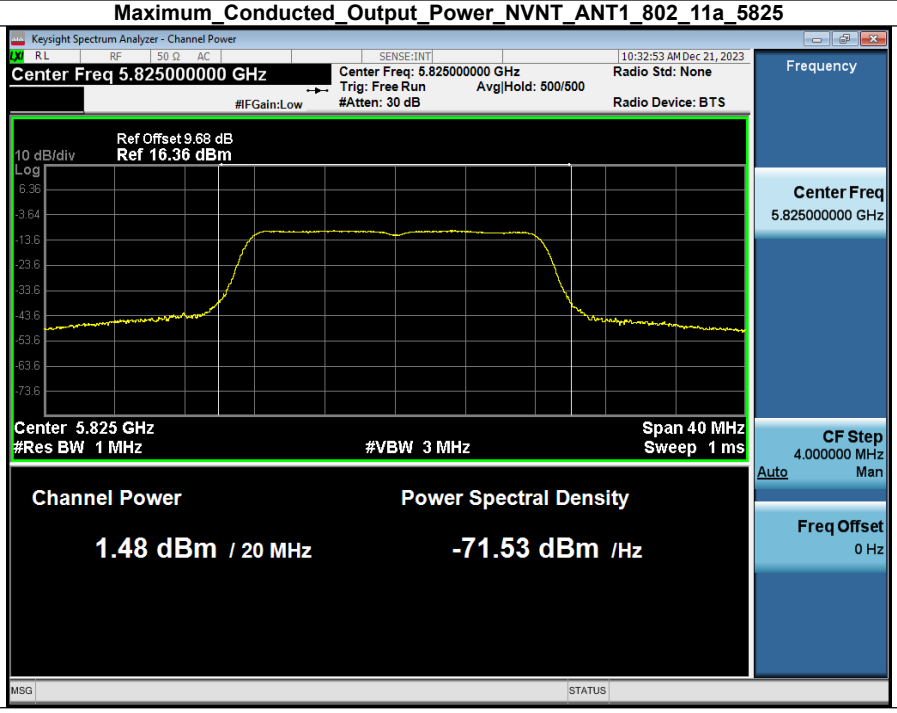
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5745



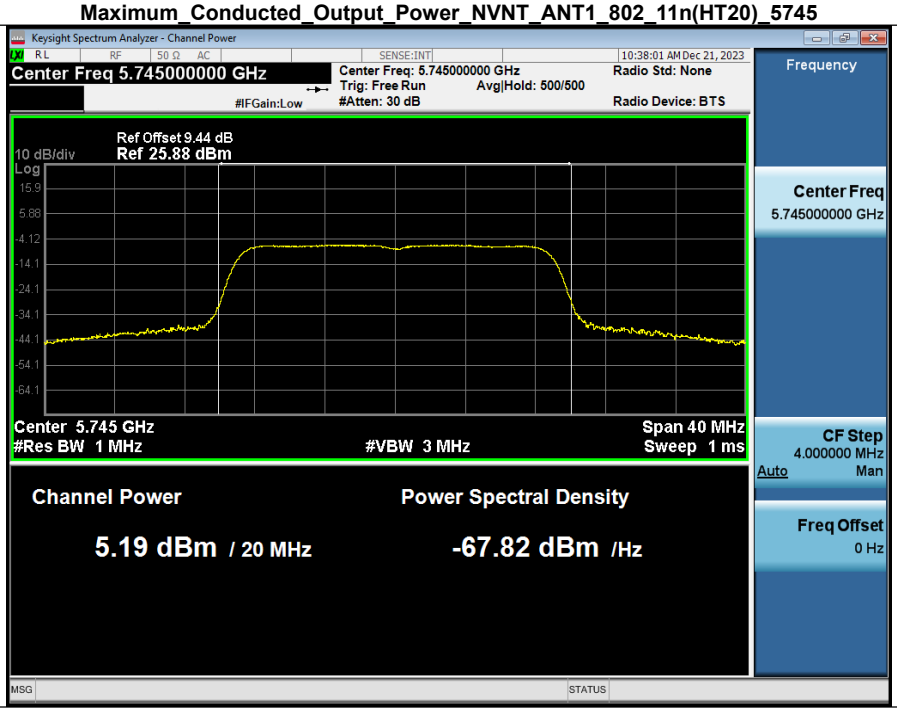
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5785



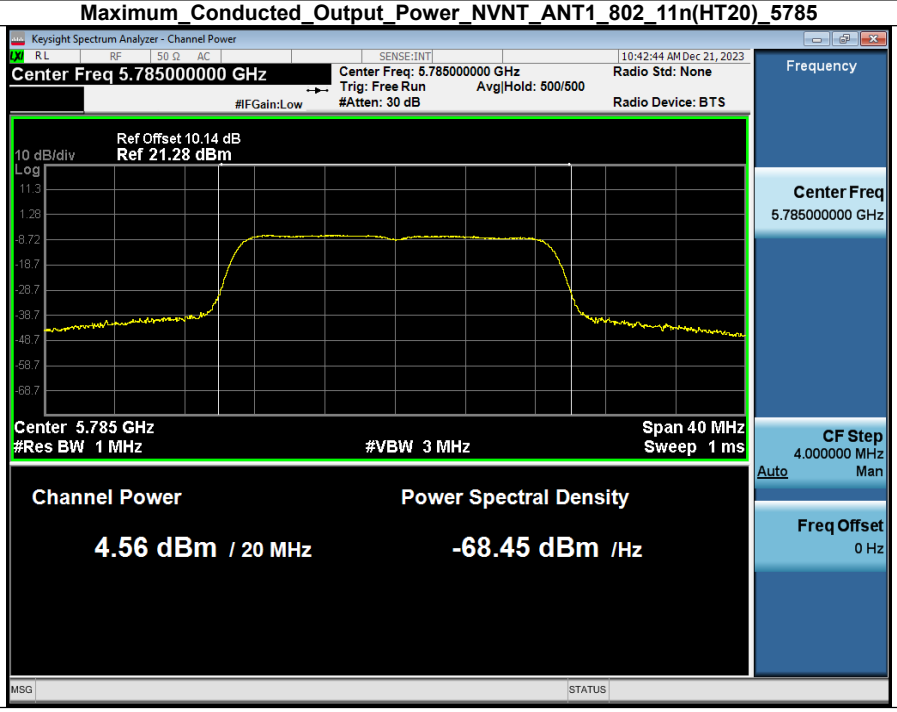
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11a_5825



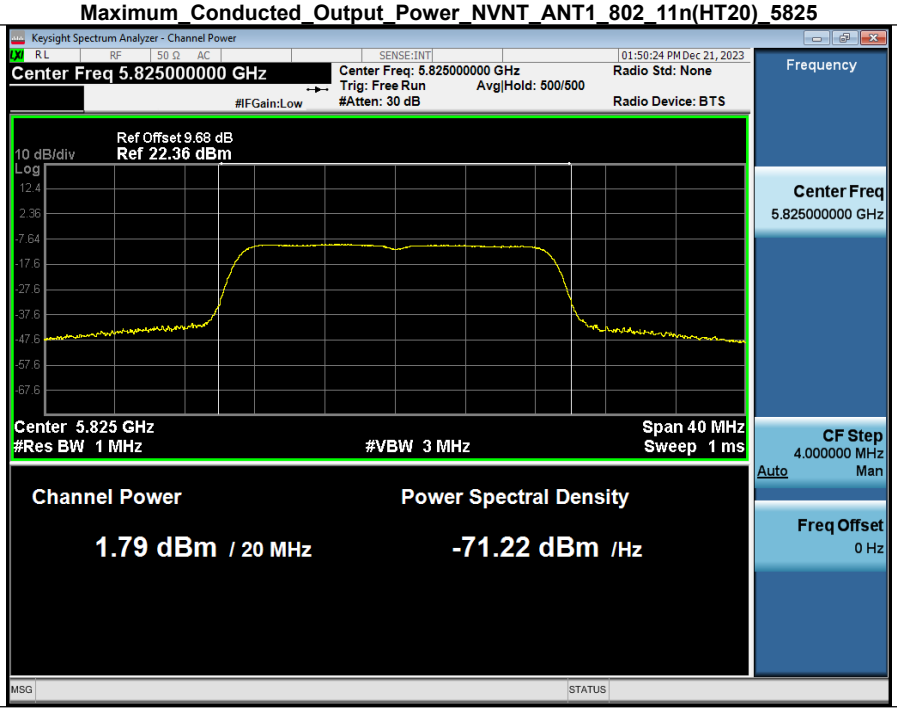
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT20)_5745



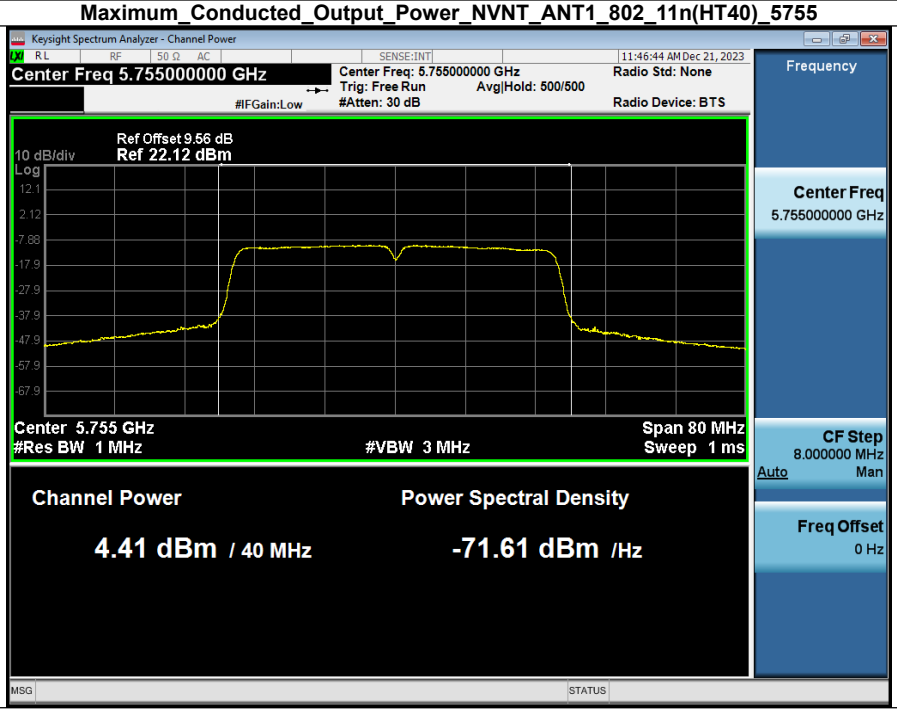
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT20)_5785



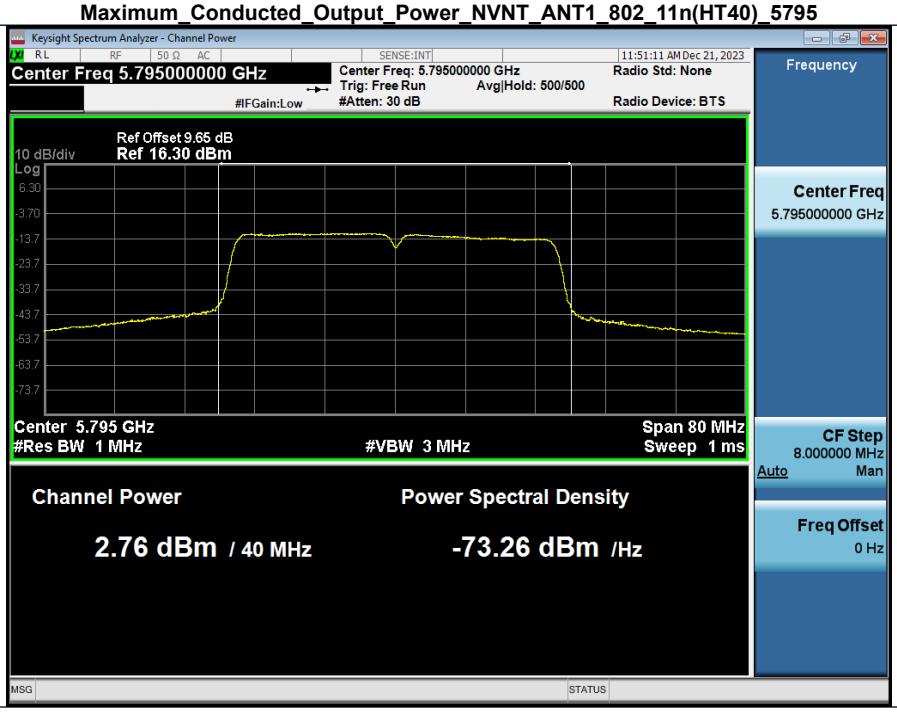
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT20)_5825



Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT40)_5755



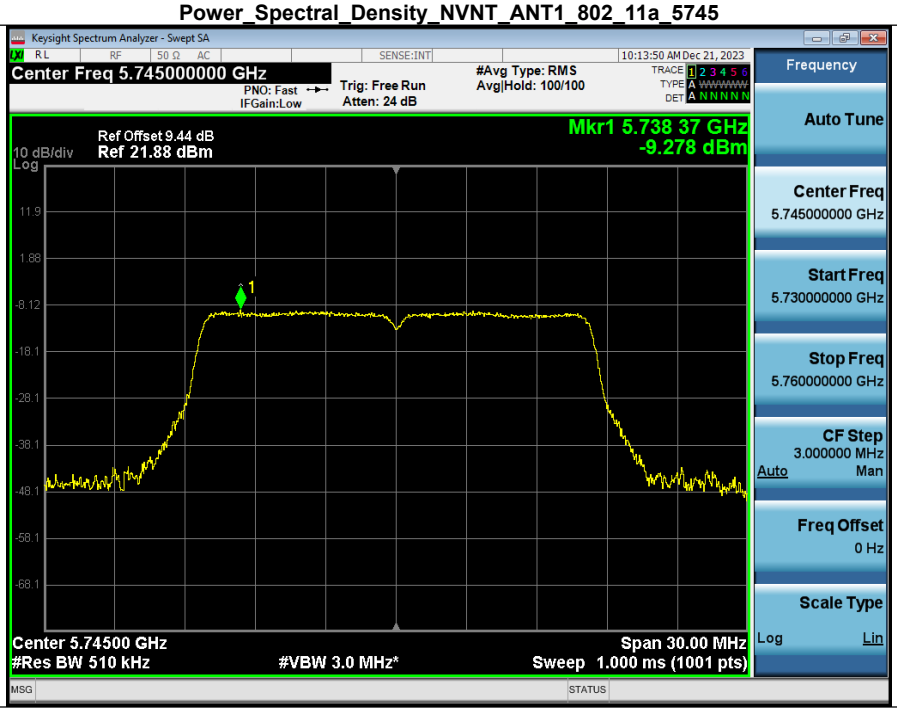
Maximum_Conducted_Output_Power_NVNT_ANT1_802_11n(HT40)_5795



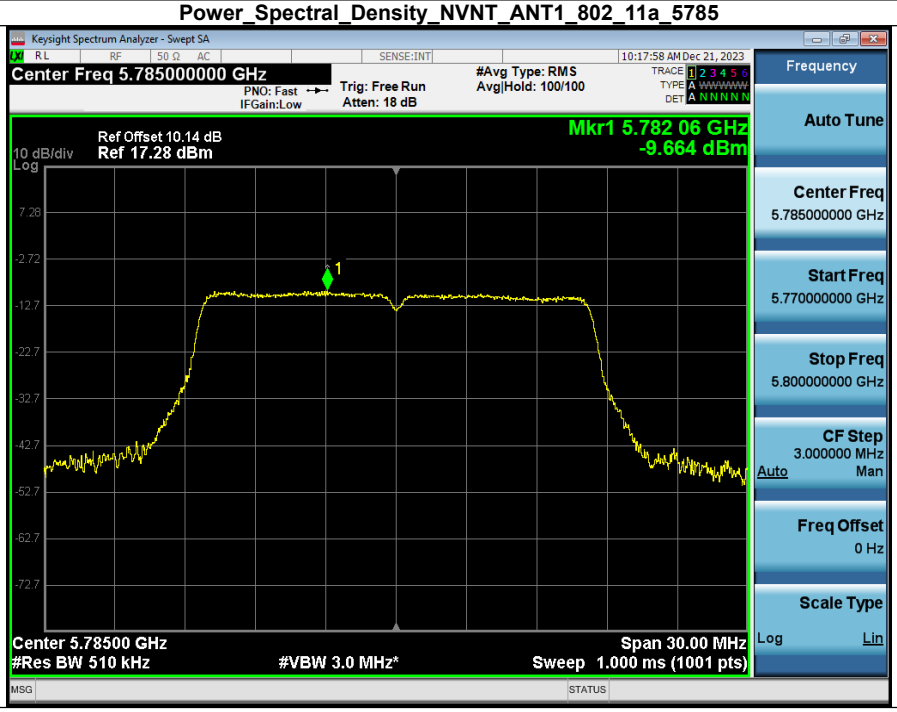
5. Power Spectral Density

Condition	Antenna	Modulation	Frequency (MHz)	PSD_SA(dBm/RBW)	Duty factor(dB)	RB factor(dB)	PSD(dBm/500kHz)	limit(dBm/500kHz)	Result
NVNT	ANT1	802.11a	5745.00	-9.28	0.48	-0	-8.88	30	Pass
NVNT	ANT1	802.11a	5785.00	-9.66	0.47	-0	-9.28	30	Pass
NVNT	ANT1	802.11a	5825.00	-12.47	0.47	-0	-12.08	30	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	-8.91	0.49	-0	-8.51	30	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	-9.35	0.55	-0	-8.88	30	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	-12.20	0.55	-0	-11.74	30	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	-12.43	1.06	-0	-11.46	30	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	-14.00	1.06	-0	-13.02	30	Pass

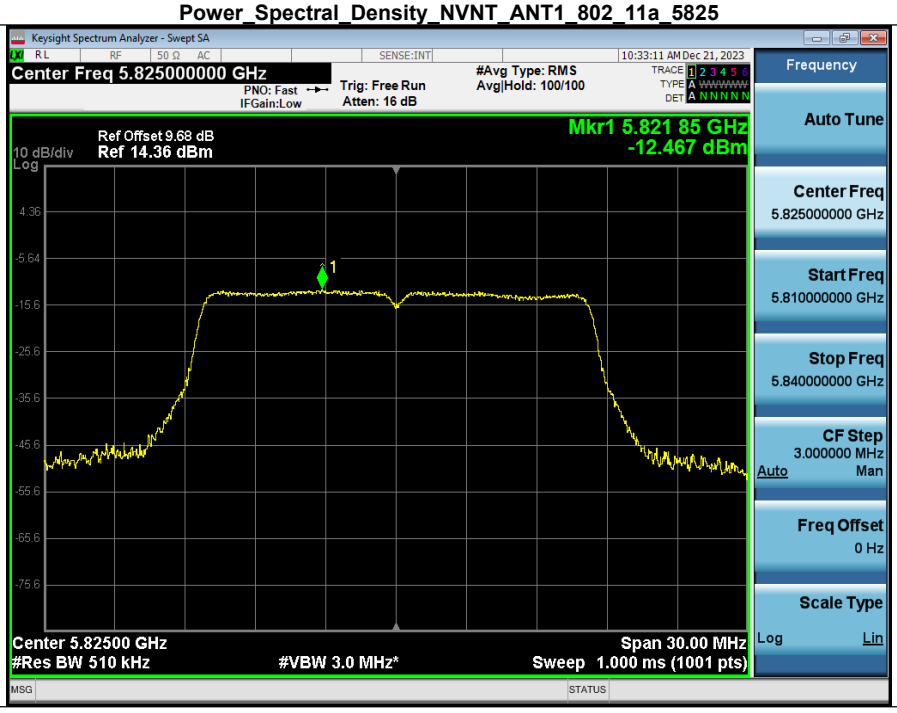
Power_Spectral_Density_NVNT_ANT1_802_11a_5745



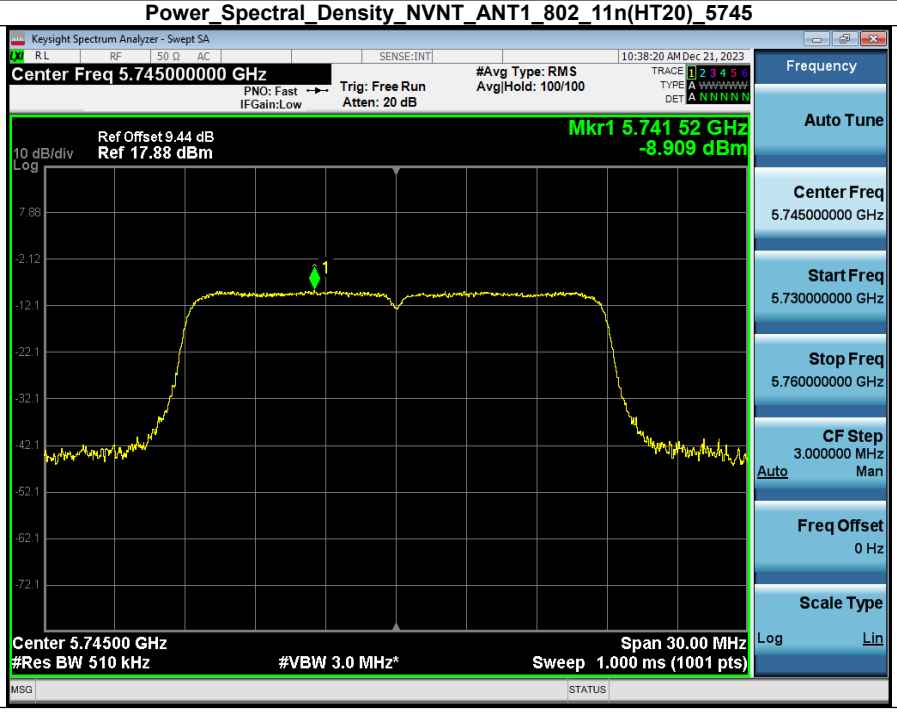
Power_Spectral_Density_NVNT_ANT1_802_11a_5785



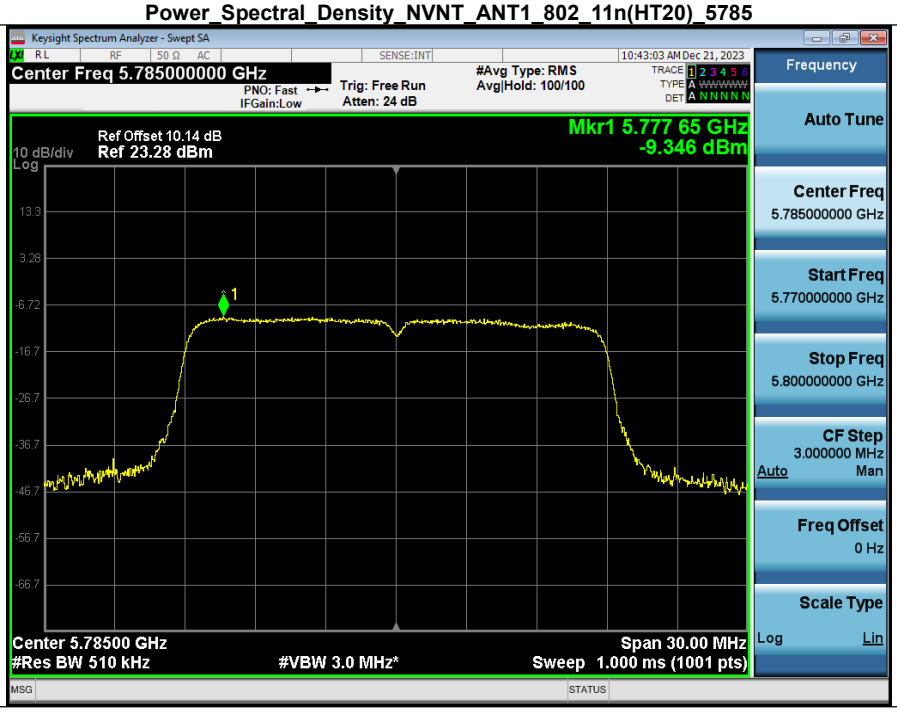
Power_Spectral_Density_NVNT_ANT1_802_11a_5825



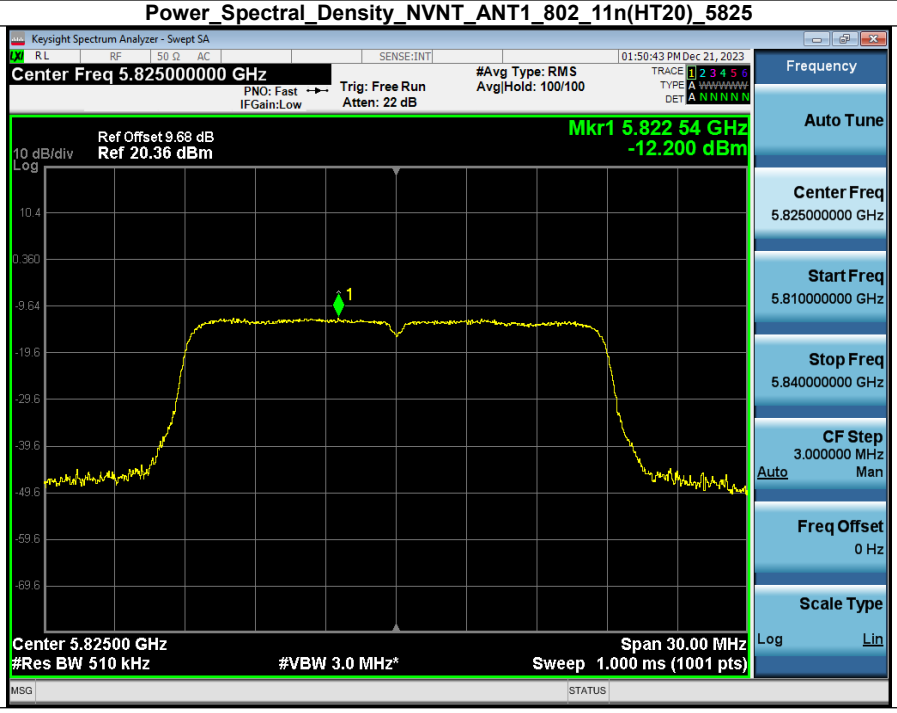
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5745



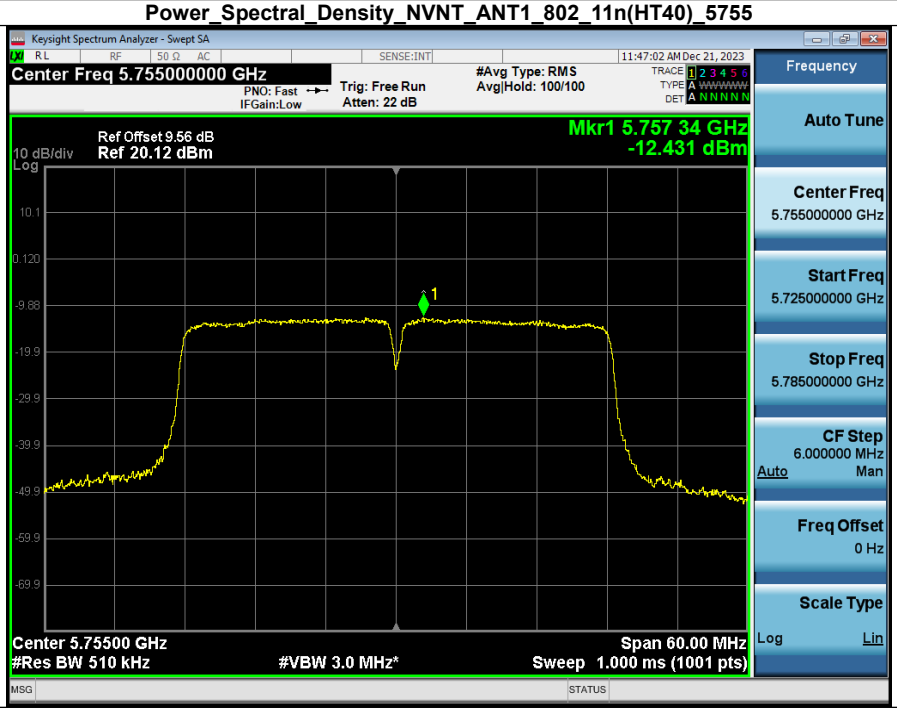
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5785



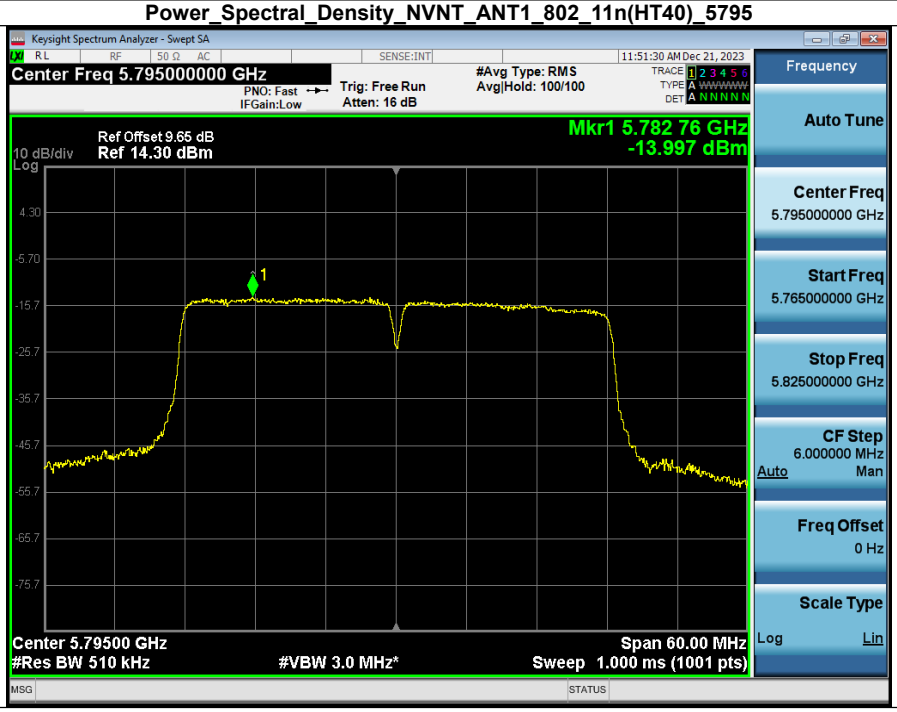
Power_Spectral_Density_NVNT_ANT1_802_11n(HT20)_5825



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5755



Power_Spectral_Density_NVNT_ANT1_802_11n(HT40)_5795

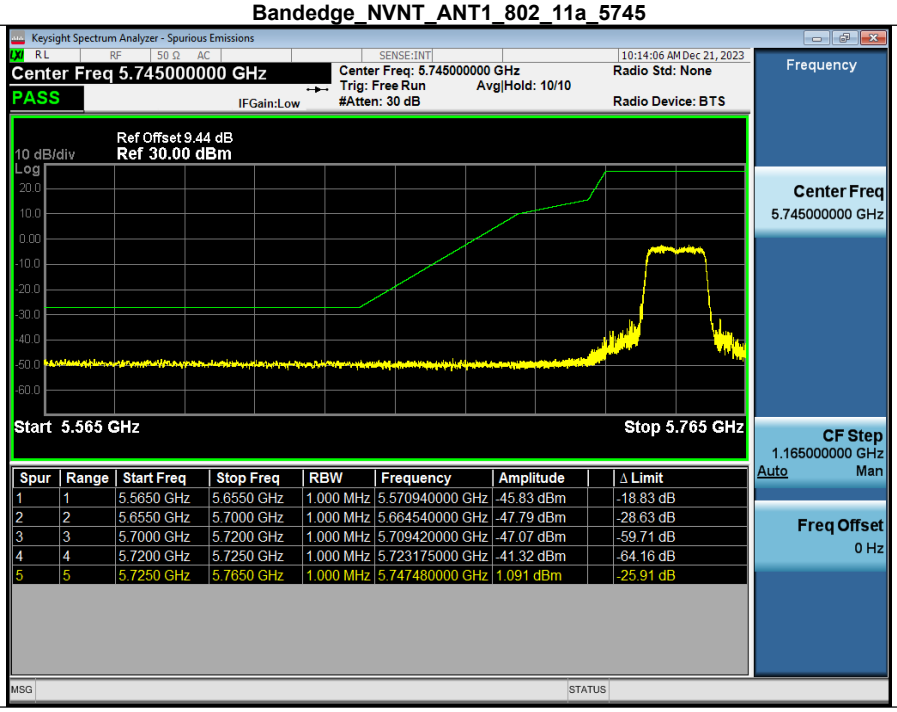


6. Bandedge

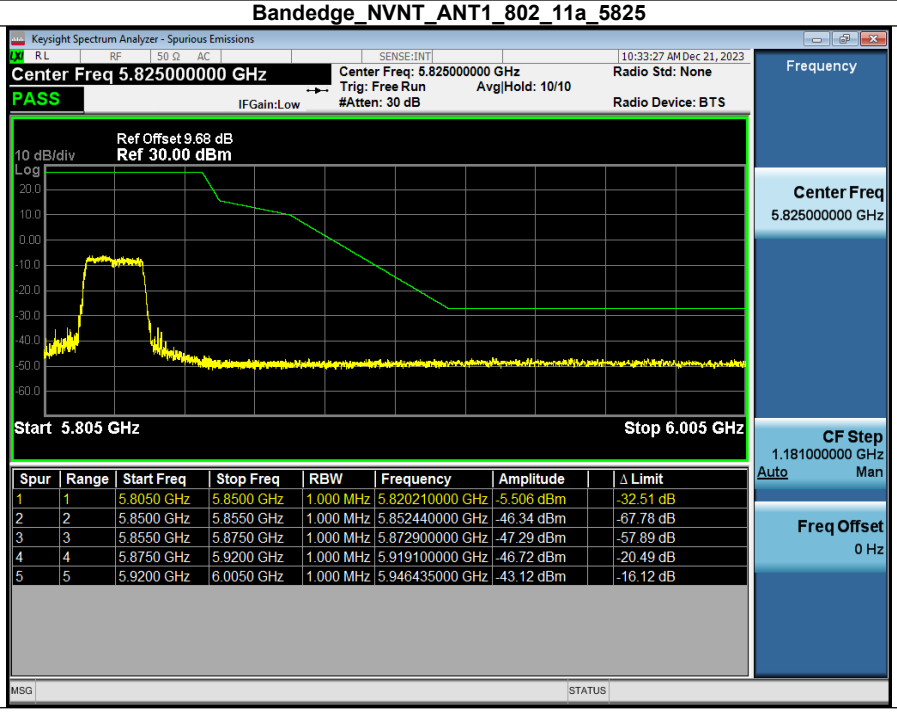
Condition	Antenna	Modulation	TX_Frequency (MHz)	Frequency Area(MHz)	Frequency(MHz)	Amplitude(dBm)	Limit(dBm)	Result
NVNT	ANT1	802.11a	LCH	5565-5655	5570.940	-45.83	-27.00	Pass
NVNT	ANT1	802.11a	LCH	5655-5700	5664.540	-47.79	-19.16	Pass
NVNT	ANT1	802.11a	LCH	5700-5720	5709.420	-47.07	12.64	Pass
NVNT	ANT1	802.11a	LCH	5720-5725	5723.175	-41.32	22.84	Pass
NVNT	ANT1	802.11a	HCH	5850-5855	5852.440	-46.34	21.44	Pass
NVNT	ANT1	802.11a	HCH	5855-5875	5872.900	-47.29	10.59	Pass
NVNT	ANT1	802.11a	HCH	5875-5920	5919.100	-46.72	-26.26	Pass
NVNT	ANT1	802.11a	HCH	5920-6005	5946.435	-43.12	-27.00	Pass
NVNT	ANT1	802.11n(HT20)	LCH	5565-5655	5618.910	-46.58	-27.00	Pass
NVNT	ANT1	802.11n(HT20)	LCH	5655-5700	5661.660	-47.79	-21.52	Pass
NVNT	ANT1	802.11n(HT20)	LCH	5700-5720	5718.700	-44.34	15.24	Pass
NVNT	ANT1	802.11n(HT20)	LCH	5720-5725	5722.790	-37.52	21.96	Pass
NVNT	ANT1	802.11n(HT20)	HCH	5850-5855	5854.480	-45.51	16.79	Pass
NVNT	ANT1	802.11n(HT20)	HCH	5855-5875	5870.140	-46.50	11.36	Pass
NVNT	ANT1	802.11n(HT20)	HCH	5875-5920	5916.040	-46.88	-23.74	Pass
NVNT	ANT1	802.11n(HT20)	HCH	5920-6005	5994.630	-41.15	-27.00	Pass
NVNT	ANT1	802.11n(HT40)	LCH	5595-5655	5595.180	-46.78	-27.00	Pass
NVNT	ANT1	802.11n(HT40)	LCH	5655-5700	5667.510	-47.09	-16.71	Pass
NVNT	ANT1	802.11n(HT40)	LCH	5700-5720	5719.540	-42.81	15.47	Pass
NVNT	ANT1	802.11n(HT40)	LCH	5720-5725	5721.180	-38.82	18.29	Pass
NVNT	ANT1	802.11n(HT40)	HCH	5850-5855	5854.130	-47.12	17.58	Pass
NVNT	ANT1	802.11n(HT40)	HCH	5855-5875	5874.200	-47.29	10.22	Pass
NVNT	ANT1	802.11n(HT40)	HCH	5875-5920	5919.550	-46.78	-26.63	Pass
NVNT	ANT1	802.11n(HT40)	HCH	5920-5955	5953.145	-42.72	-27.00	Pass

Note:The test diagram has integrated antenna gain to Offset Settings.

Bandedge_NVNT_ANT1_802_11a_5745

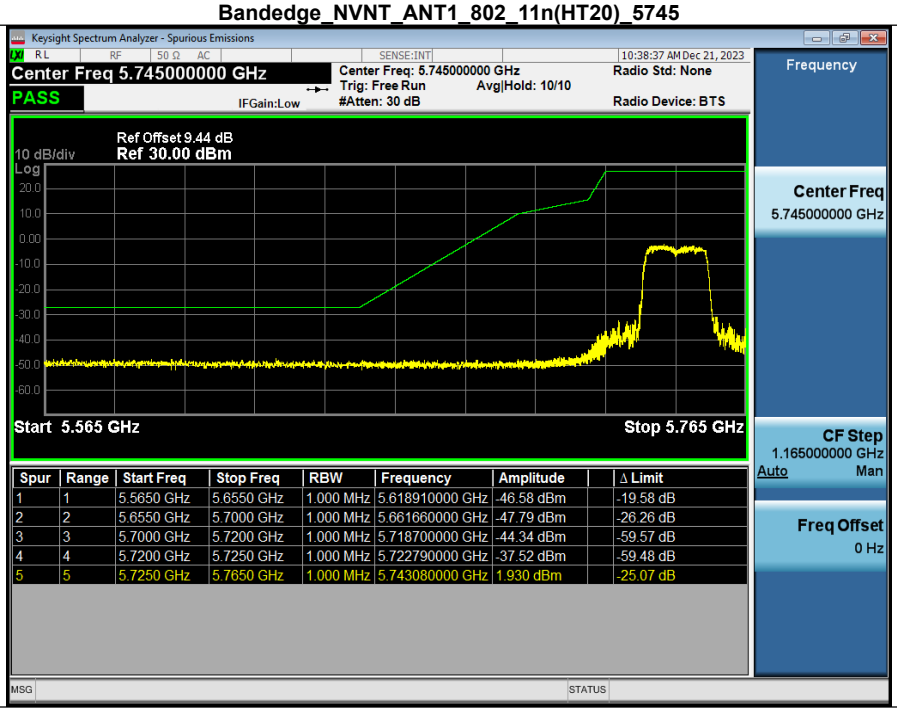


Bandedge_NVNT_ANT1_802_11a_5825



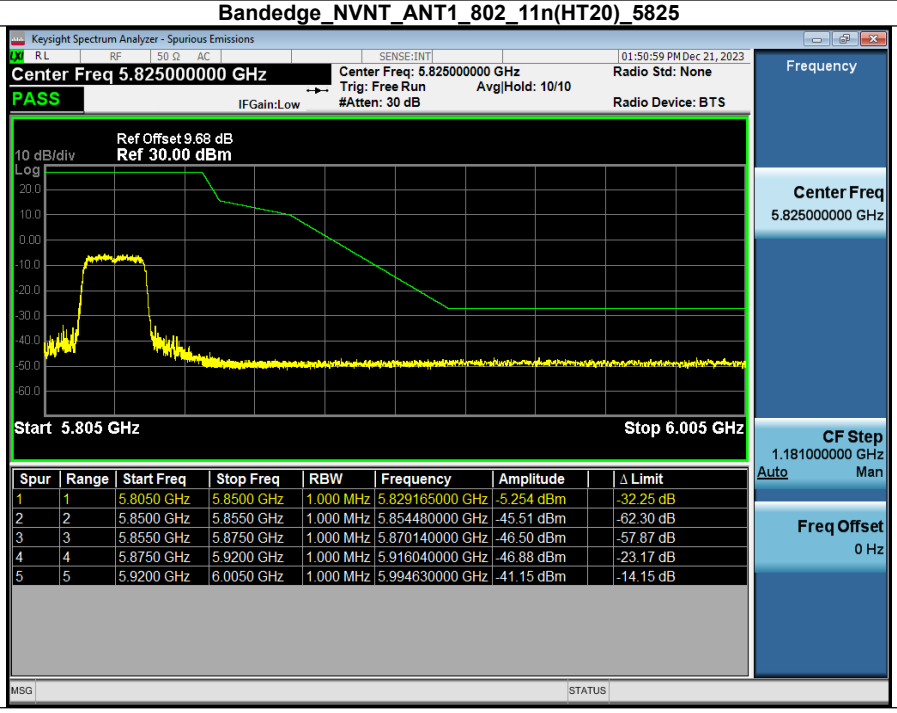
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.8050 GHz	5.8500 GHz	1.000 MHz	5.820210000 GHz	-5.506 dBm	-32.51 dB
2	2	5.8500 GHz	5.8550 GHz	1.000 MHz	5.852440000 GHz	-46.34 dBm	-67.78 dB
3	3	5.8550 GHz	5.8750 GHz	1.000 MHz	5.872900000 GHz	-47.29 dBm	-57.89 dB
4	4	5.8750 GHz	5.9200 GHz	1.000 MHz	5.919100000 GHz	-46.72 dBm	-20.49 dB
5	5	5.9200 GHz	6.0050 GHz	1.000 MHz	5.946435000 GHz	-43.12 dBm	-16.12 dB

Bandedge_NVNT_ANT1_802_11n(HT20)_5745



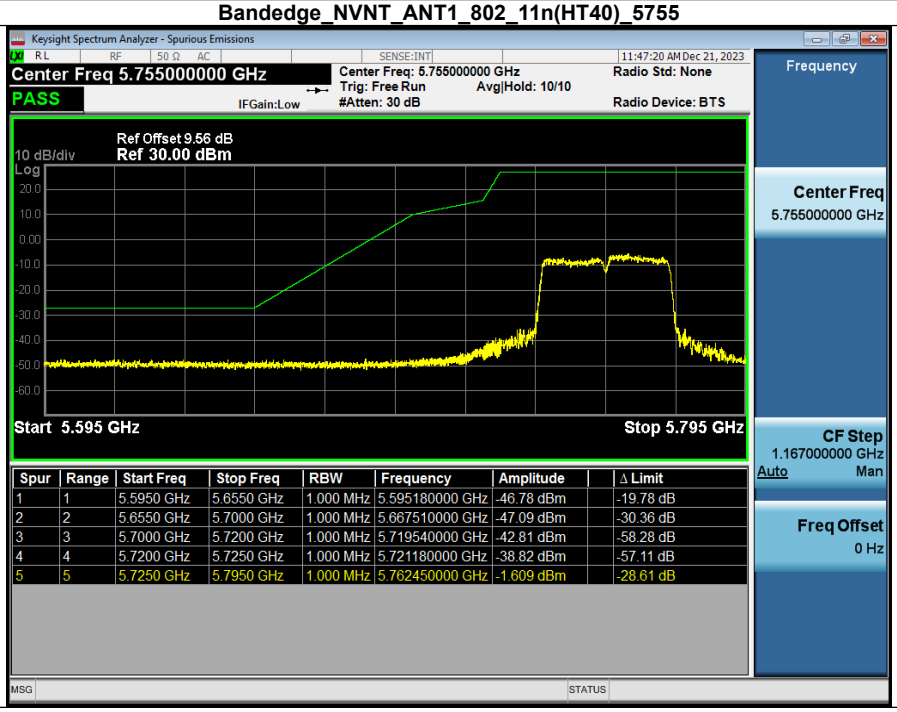
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	5.5650 GHz	5.6550 GHz	1.000 MHz	5.618910000 GHz	-46.58 dBm	-19.58 dB
2	2	5.6550 GHz	5.7000 GHz	1.000 MHz	5.661660000 GHz	-47.79 dBm	-26.26 dB
3	3	5.7000 GHz	5.7200 GHz	1.000 MHz	5.718700000 GHz	-44.34 dBm	-59.57 dB
4	4	5.7200 GHz	5.7250 GHz	1.000 MHz	5.722790000 GHz	-37.52 dBm	-59.48 dB
5	5	5.7250 GHz	5.7650 GHz	1.000 MHz	5.743080000 GHz	1.930 dBm	-25.07 dB

Bandedge_NVNT_ANT1_802_11n(HT20)_5825



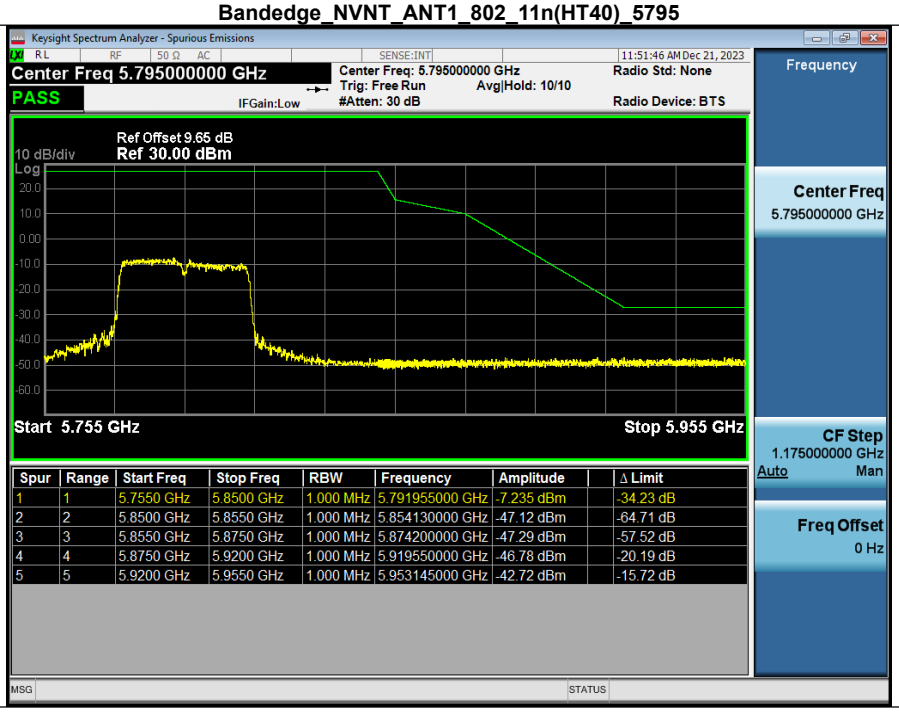
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude		Δ Limit
1	1	5.8050 GHz	5.8500 GHz	1.000 MHz	5.829165000 GHz	-5.254 dBm		-32.25 dB
2	2	5.8500 GHz	5.8550 GHz	1.000 MHz	5.854480000 GHz	-45.51 dBm		-62.30 dB
3	3	5.8550 GHz	5.8750 GHz	1.000 MHz	5.870140000 GHz	-46.50 dBm		-57.87 dB
4	4	5.8750 GHz	5.9200 GHz	1.000 MHz	5.916040000 GHz	-46.88 dBm		-23.17 dB
5	5	5.9200 GHz	6.0050 GHz	1.000 MHz	5.994630000 GHz	-41.15 dBm		-14.15 dB

Bandedge_NVNT_ANT1_802_11n(HT40)_5755



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude		Δ Limit
1	1	5.5950 GHz	5.6550 GHz	1.000 MHz	5.595180000 GHz	-46.78 dBm		-19.78 dB
2	2	5.6550 GHz	5.7000 GHz	1.000 MHz	5.667510000 GHz	-47.09 dBm		-30.36 dB
3	3	5.7000 GHz	5.7200 GHz	1.000 MHz	5.719540000 GHz	-42.81 dBm		-58.28 dB
4	4	5.7200 GHz	5.7250 GHz	1.000 MHz	5.721180000 GHz	-38.82 dBm		-57.11 dB
5	5	5.7250 GHz	5.7950 GHz	1.000 MHz	5.762450000 GHz	-1.609 dBm		-28.61 dB

Bandedge_NVNT_ANT1_802_11n(HT40)_5795

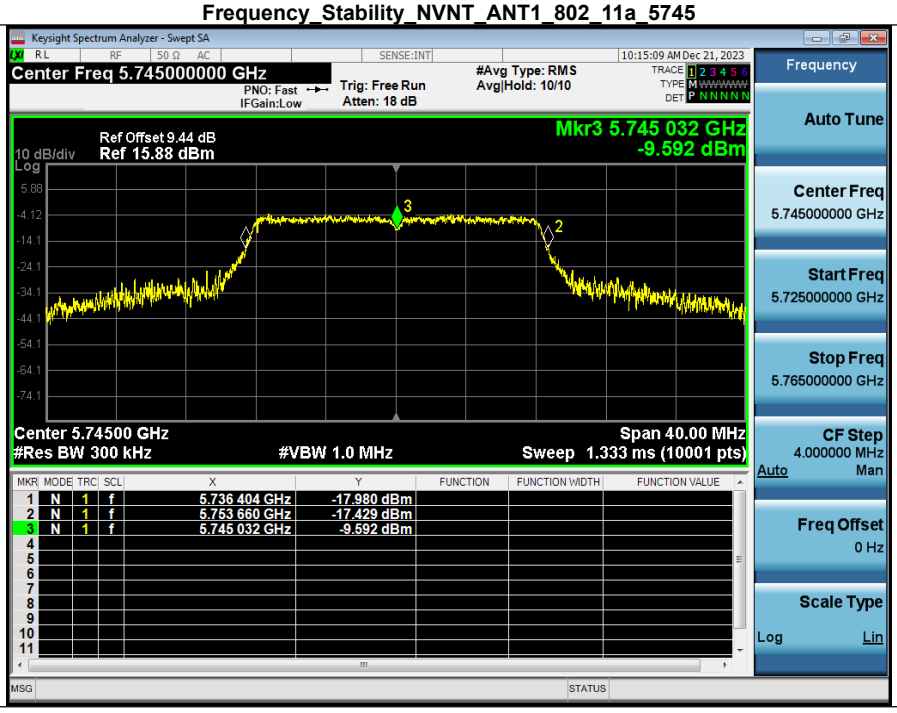


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude		Δ Limit
1	1	5.7550 GHz	5.8500 GHz	1.000 MHz	5.791955000 GHz	-7.235 dBm		-34.23 dB
2	2	5.8500 GHz	5.8550 GHz	1.000 MHz	5.854130000 GHz	-47.12 dBm		-64.71 dB
3	3	5.8550 GHz	5.8750 GHz	1.000 MHz	5.874200000 GHz	-47.29 dBm		-57.52 dB
4	4	5.8750 GHz	5.9200 GHz	1.000 MHz	5.919550000 GHz	-46.78 dBm		-20.19 dB
5	5	5.9200 GHz	5.9550 GHz	1.000 MHz	5.953145000 GHz	-42.72 dBm		-15.72 dB

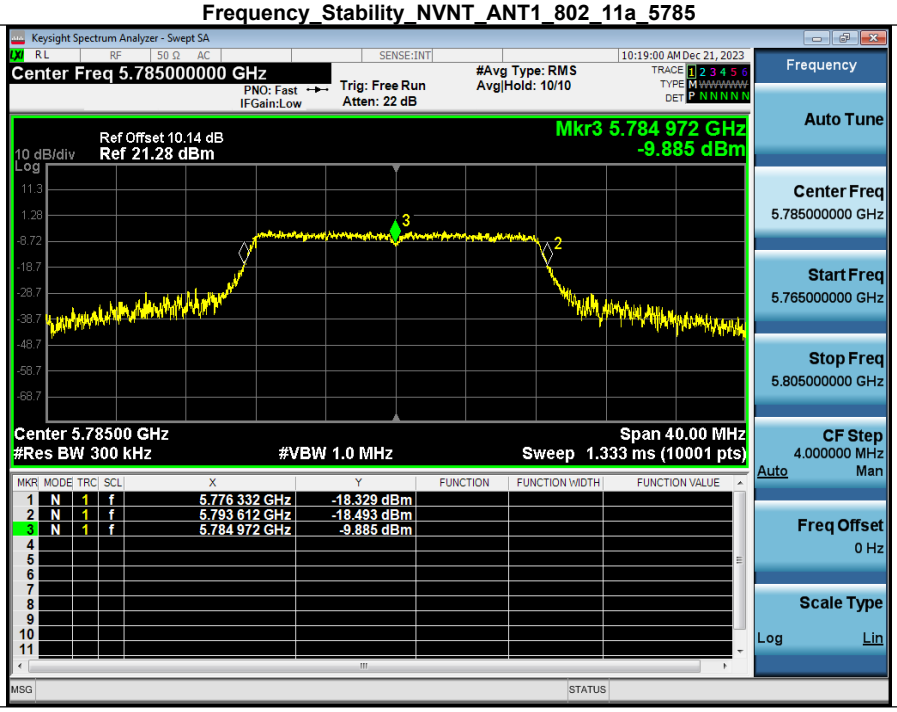
8. Frequency Stability

Condition	Antenna	Modulation	Frequency (MHz)	Fc(MHz)	Fl(MHz)	Fh(MHz)	Limit(MHz)	Result
NVNT	ANT1	802.11a	5745.00	5745.032	5736.404	5753.660	5725~5850	Pass
NVNT	ANT1	802.11a	5785.00	5784.972	5776.332	5793.612	5725~5850	Pass
NVNT	ANT1	802.11a	5825.00	5825.002	5816.360	5833.644	5725~5850	Pass
NVNT	ANT1	802.11n(HT20)	5745.00	5745.022	5735.896	5754.148	5725~5850	Pass
NVNT	ANT1	802.11n(HT20)	5785.00	5784.968	5775.848	5794.088	5725~5850	Pass
NVNT	ANT1	802.11n(HT20)	5825.00	5824.992	5815.900	5834.084	5725~5850	Pass
NVNT	ANT1	802.11n(HT40)	5755.00	5755.044	5736.784	5773.304	5725~5850	Pass
NVNT	ANT1	802.11n(HT40)	5795.00	5795.040	5776.816	5813.264	5725~5850	Pass

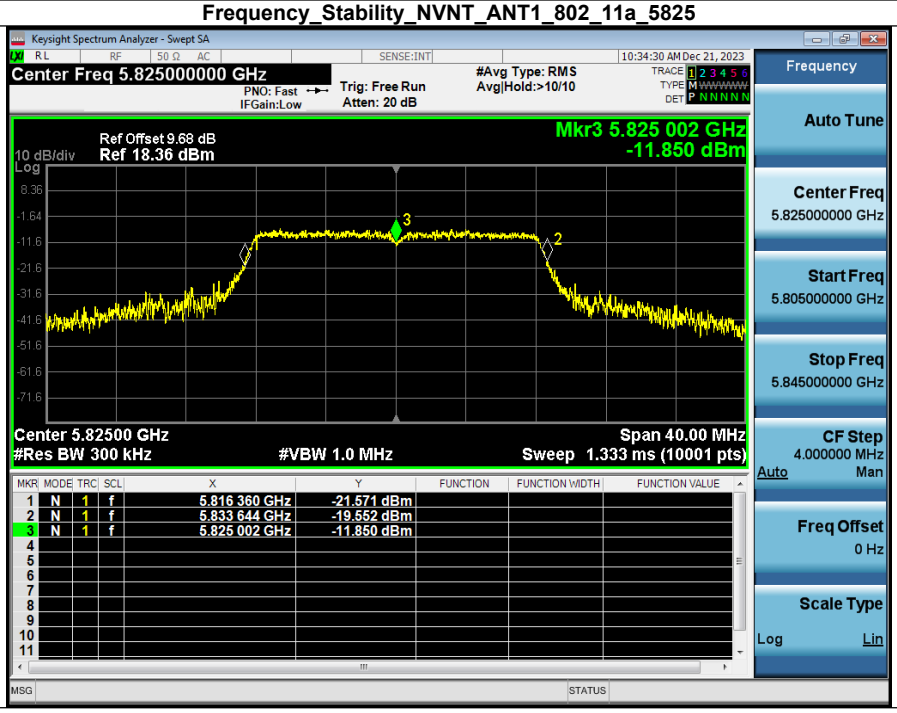
Frequency_Stability_NVNT_ANT1_802_11a_5745



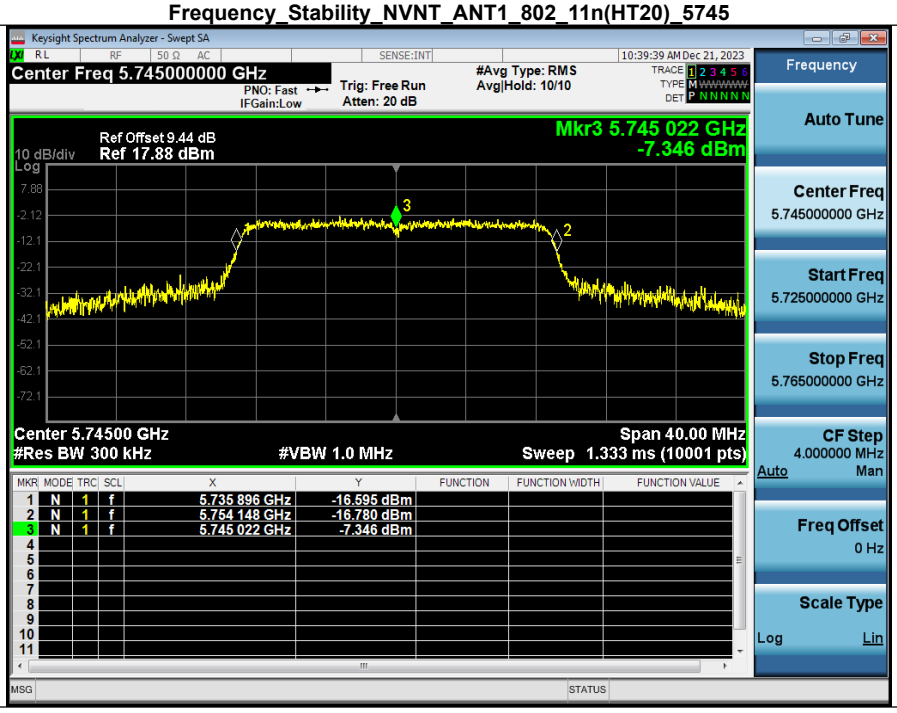
Frequency_Stability_NVNT_ANT1_802_11a_5785



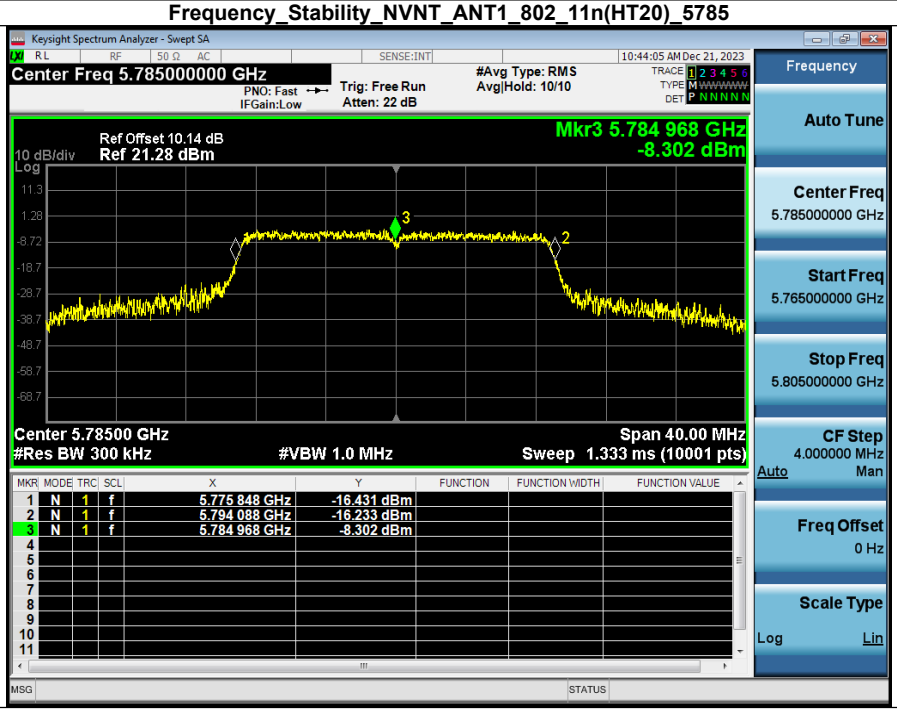
Frequency_Stability_NVNT_ANT1_802_11a_5825



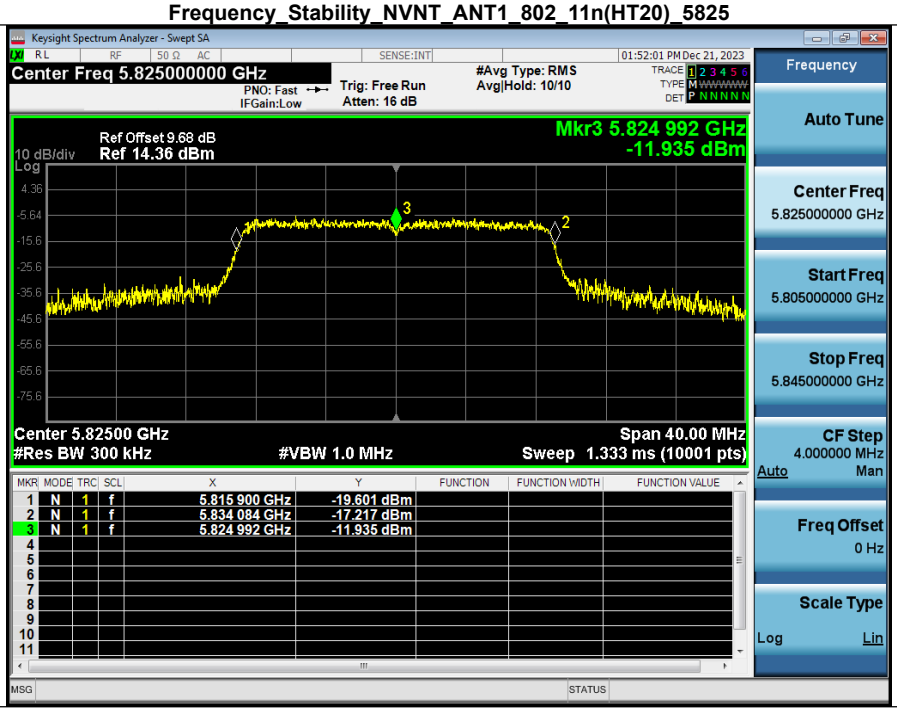
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5745



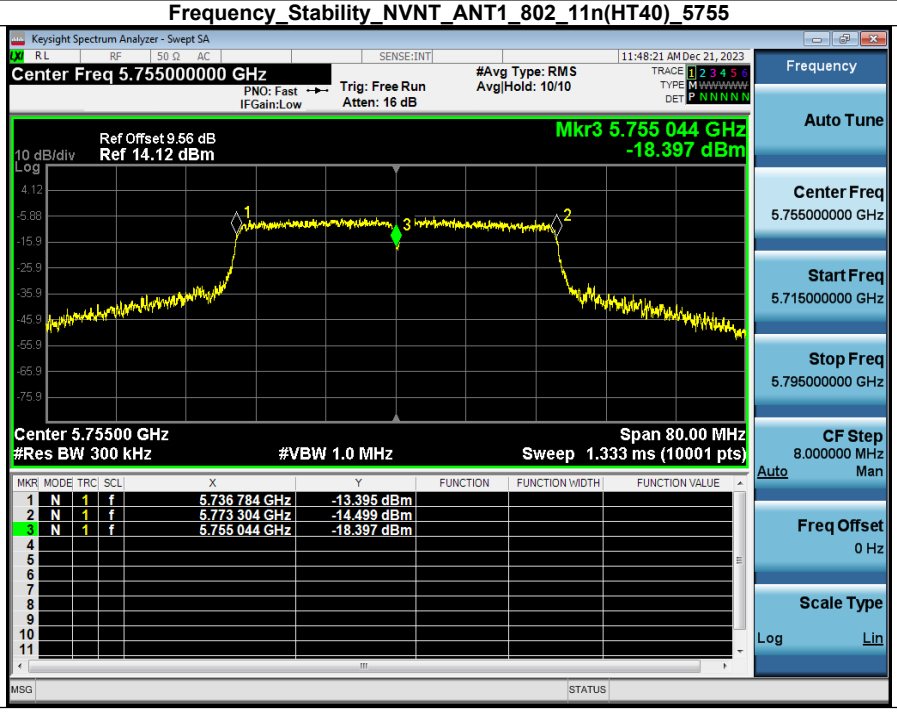
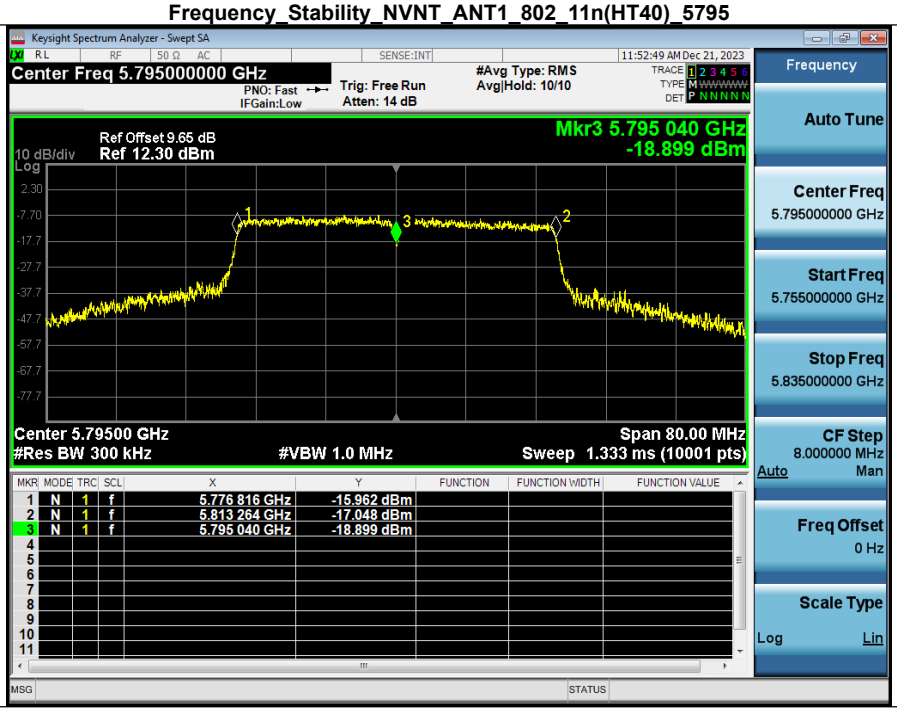
Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5785



Frequency_Stability_NVNT_ANT1_802_11n(HT20)_5825



Frequency_Stability_NVNT_ANT1_802_11n(HT40)_5755



Frequency_Stability_NVNT_ANT1_802_11n(HT40)_5795