

Appendix for 15.407

1. Bandwidth

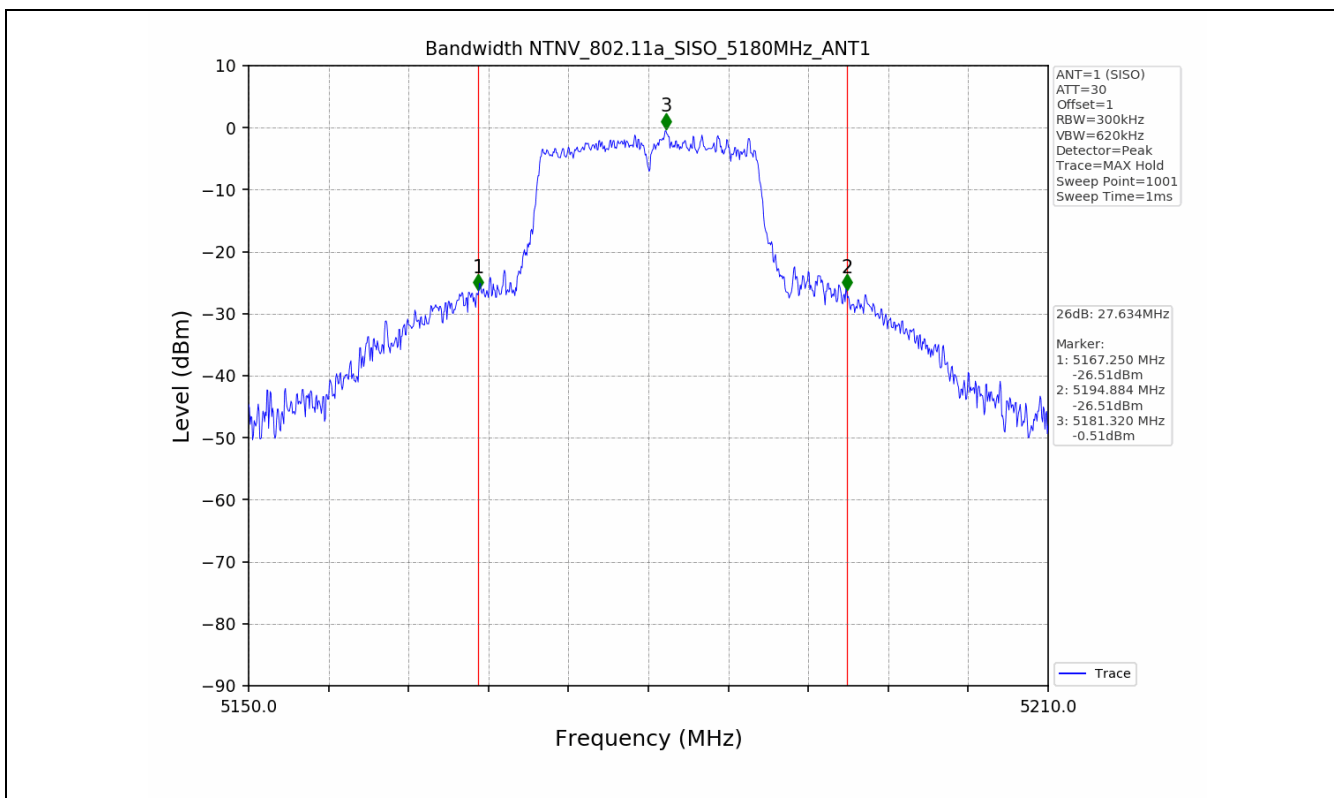
1.1 Test Result

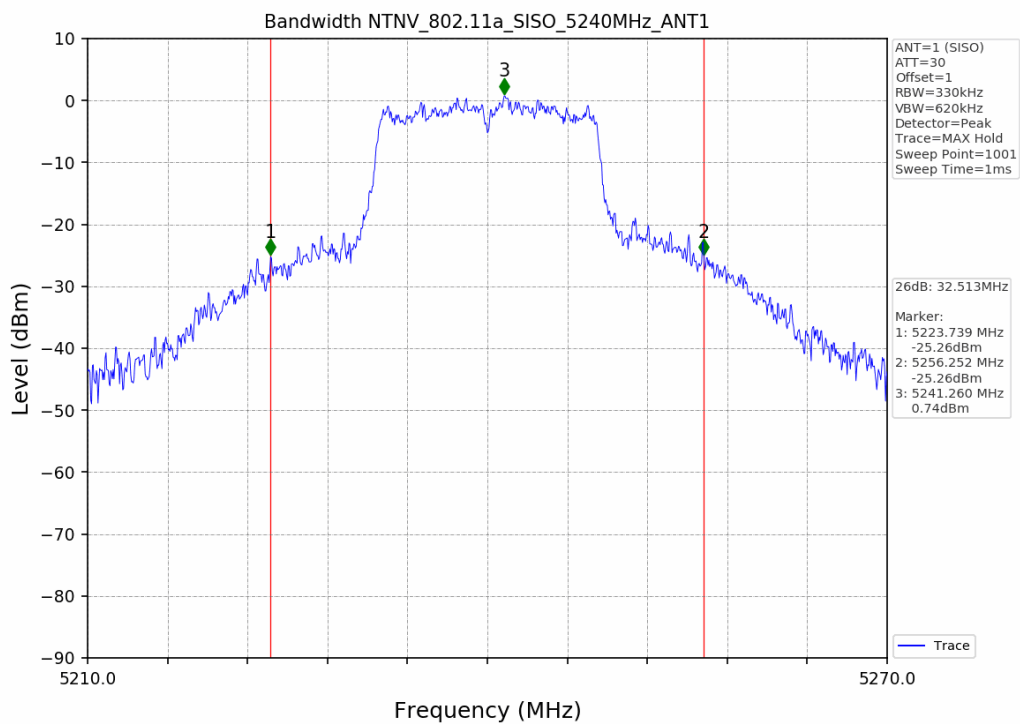
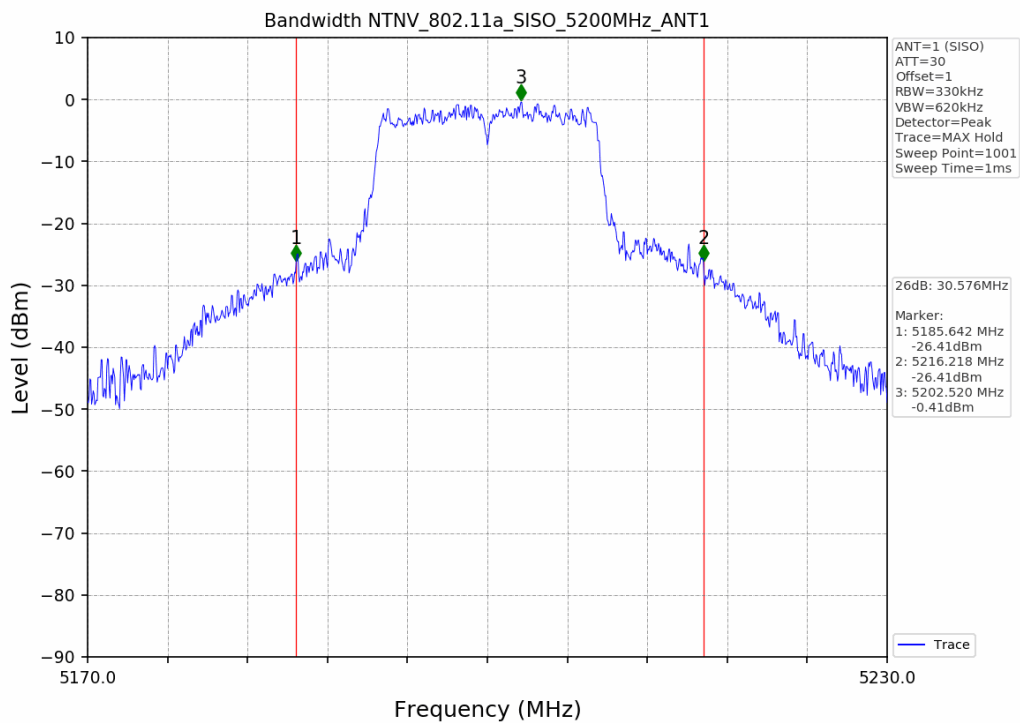
Test Mode	Frequency (MHz)	TX Type	ANT No.	Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11a	5180	SISO	1	27.634	Only for Report Use	PASS
	5200	SISO	1	30.576	Only for Report Use	PASS
	5240	SISO	1	32.513	Only for Report Use	PASS
	5260	SISO	1	29.735	Only for Report Use	PASS
	5300	SISO	1	31.250	Only for Report Use	PASS
	5320	SISO	1	30.456	Only for Report Use	PASS
	5500	SISO	1	33.591	Only for Report Use	PASS
	5580	SISO	1	37.689	Only for Report Use	PASS
	5600	SISO	1	39.848	Only for Report Use	PASS
	5700	SISO	1	38.470	Only for Report Use	PASS
802.11n(HT20)	5180	SISO	1	35.022	Only for Report Use	PASS
	5200	SISO	1	35.027	Only for Report Use	PASS
	5240	SISO	1	33.634	Only for Report Use	PASS
	5260	SISO	1	34.086	Only for Report Use	PASS
	5300	SISO	1	32.959	Only for Report Use	PASS
	5320	SISO	1	33.677	Only for Report Use	PASS
	5500	SISO	1	37.918	Only for Report Use	PASS
	5580	SISO	1	39.176	Only for Report Use	PASS
	5600	SISO	1	42.215	Only for Report Use	PASS
	5700	SISO	1	42.028	Only for Report Use	PASS

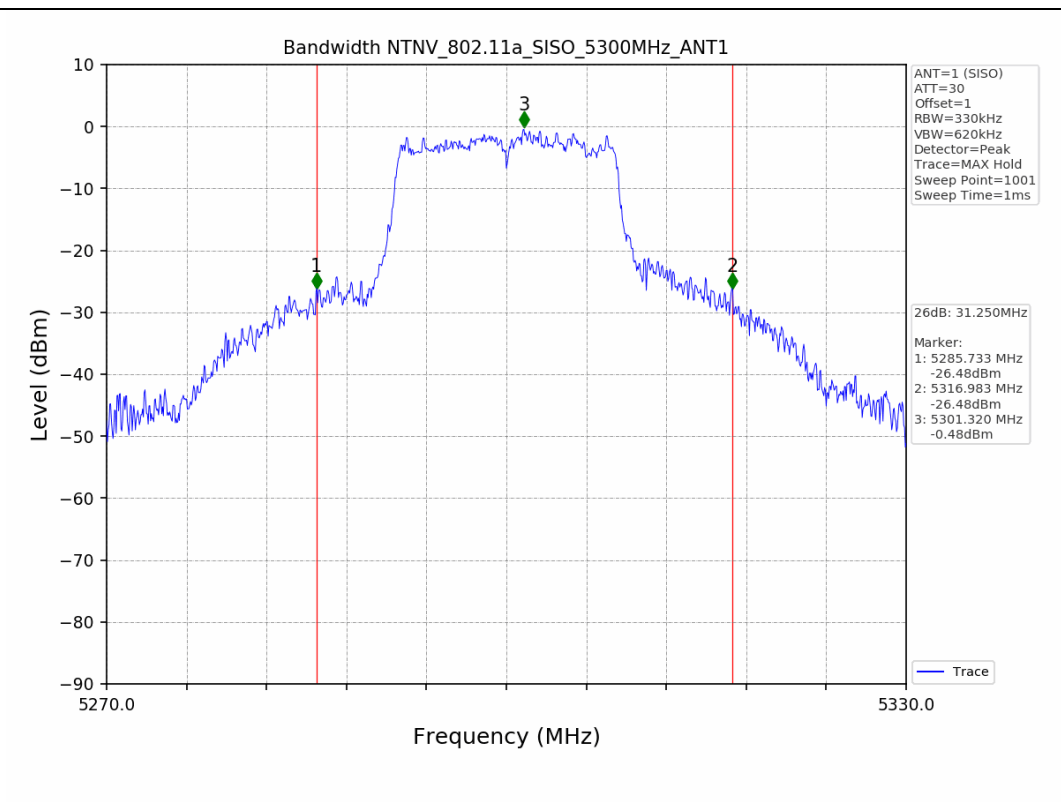
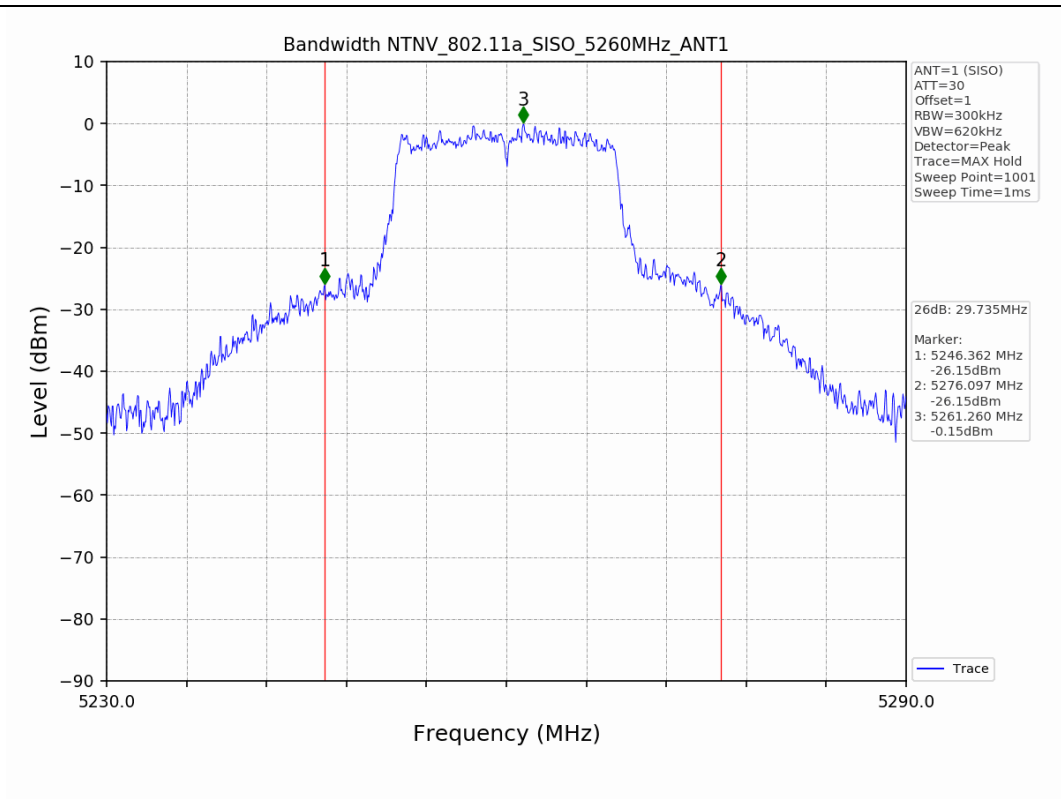
Test Mode	Frequency (MHz)	TX Type	ANT No.	Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11a	5745	SISO	1	16.343	≥0.5	PASS
	5785	SISO	1	16.382	≥0.5	PASS
	5825	SISO	1	15.976	≥0.5	PASS
802.11n(HT20)	5745	SISO	1	17.620	≥0.5	PASS
	5785	SISO	1	17.334	≥0.5	PASS
	5825	SISO	1	17.626	≥0.5	PASS

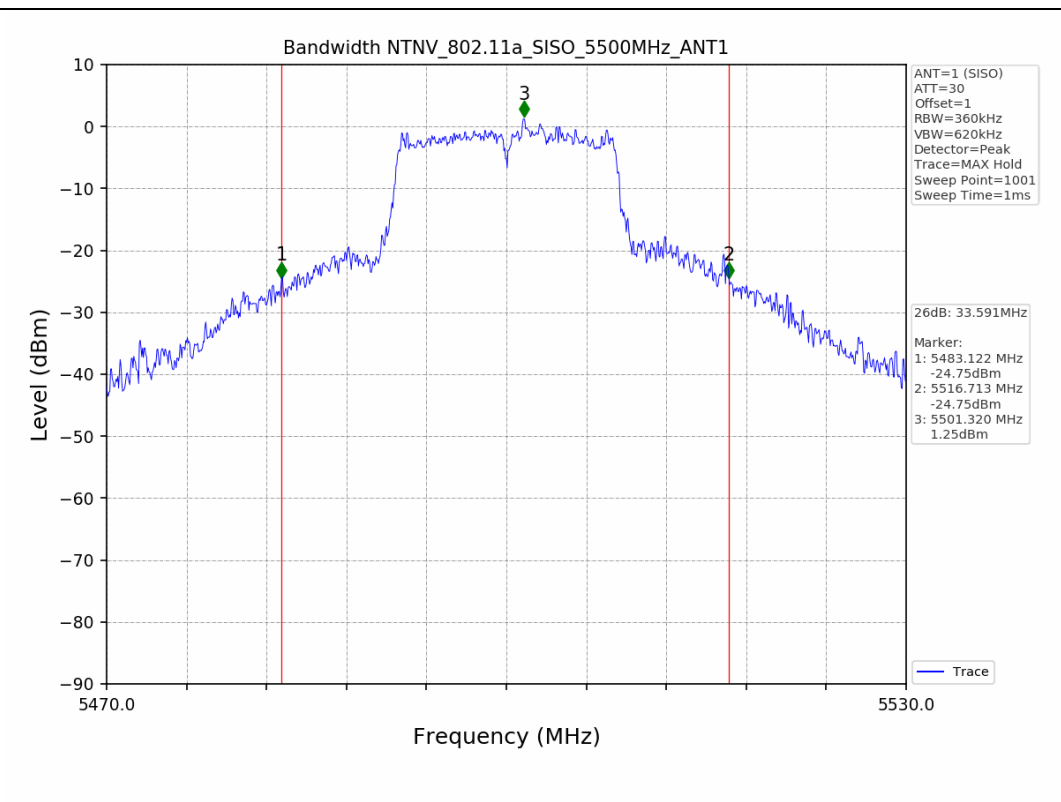
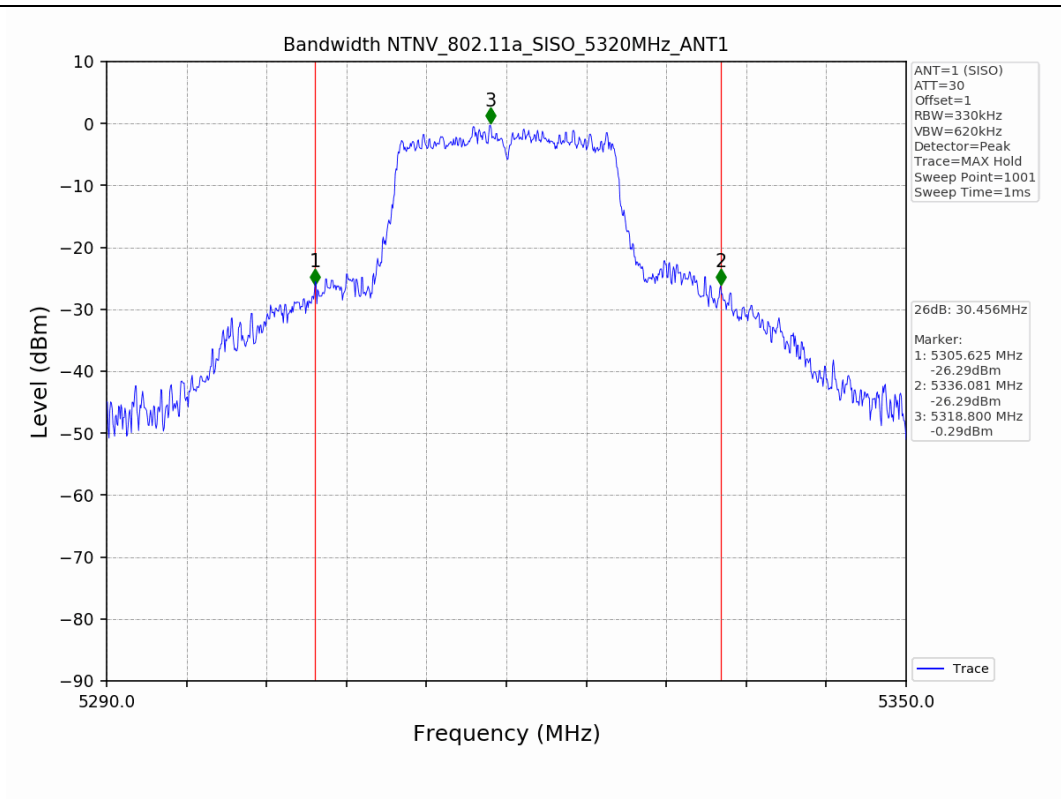
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11a	5180	SISO	1	17.470	Only for Report Use
	5200	SISO	1	17.420	Only for Report Use
	5240	SISO	1	17.825	Only for Report Use
	5260	SISO	1	17.332	Only for Report Use
	5300	SISO	1	17.432	Only for Report Use
	5320	SISO	1	17.436	Only for Report Use
	5500	SISO	1	20.035	Only for Report Use
	5580	SISO	1	22.519	Only for Report Use
	5600	SISO	1	24.284	Only for Report Use
	5700	SISO	1	24.822	Only for Report Use
	5745	SISO	1	26.781	Only for Report Use
	5785	SISO	1	27.838	Only for Report Use
802.11n(HT20)	5825	SISO	1	26.478	Only for Report Use
	5180	SISO	1	18.438	Only for Report Use
	5200	SISO	1	18.499	Only for Report Use
	5240	SISO	1	19.229	Only for Report Use
	5260	SISO	1	18.317	Only for Report Use
	5300	SISO	1	18.503	Only for Report Use
	5320	SISO	1	18.522	Only for Report Use
	5500	SISO	1	21.798	Only for Report Use
	5580	SISO	1	24.134	Only for Report Use
	5600	SISO	1	26.703	Only for Report Use
	5700	SISO	1	26.722	Only for Report Use
	5745	SISO	1	28.707	Only for Report Use
	5785	SISO	1	30.207	Only for Report Use
	5825	SISO	1	28.913	Only for Report Use

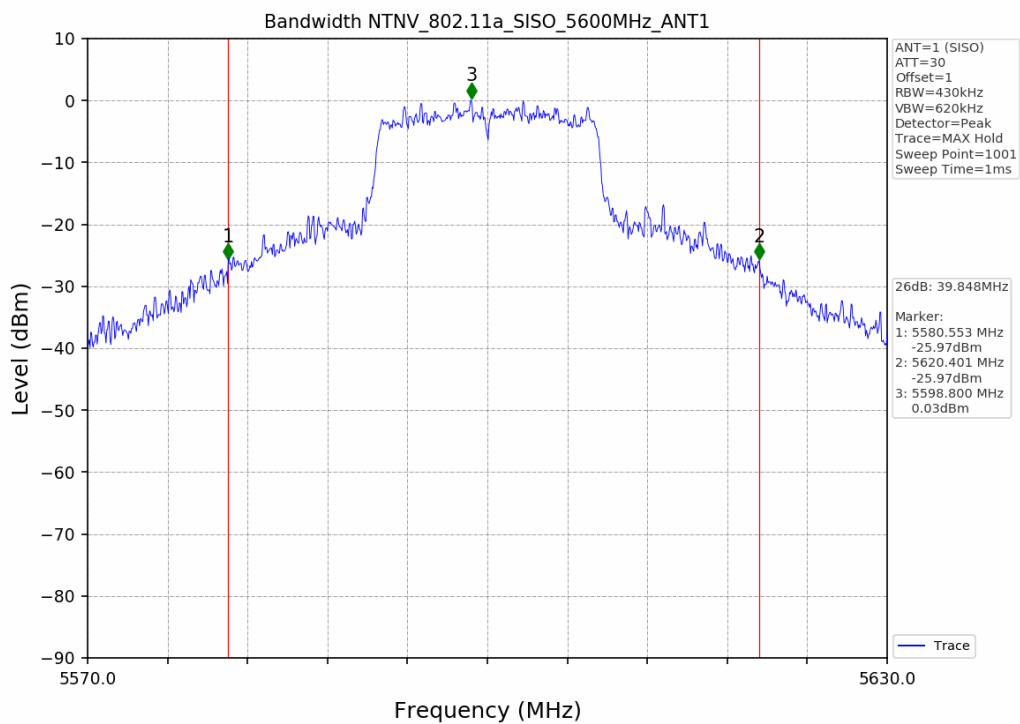
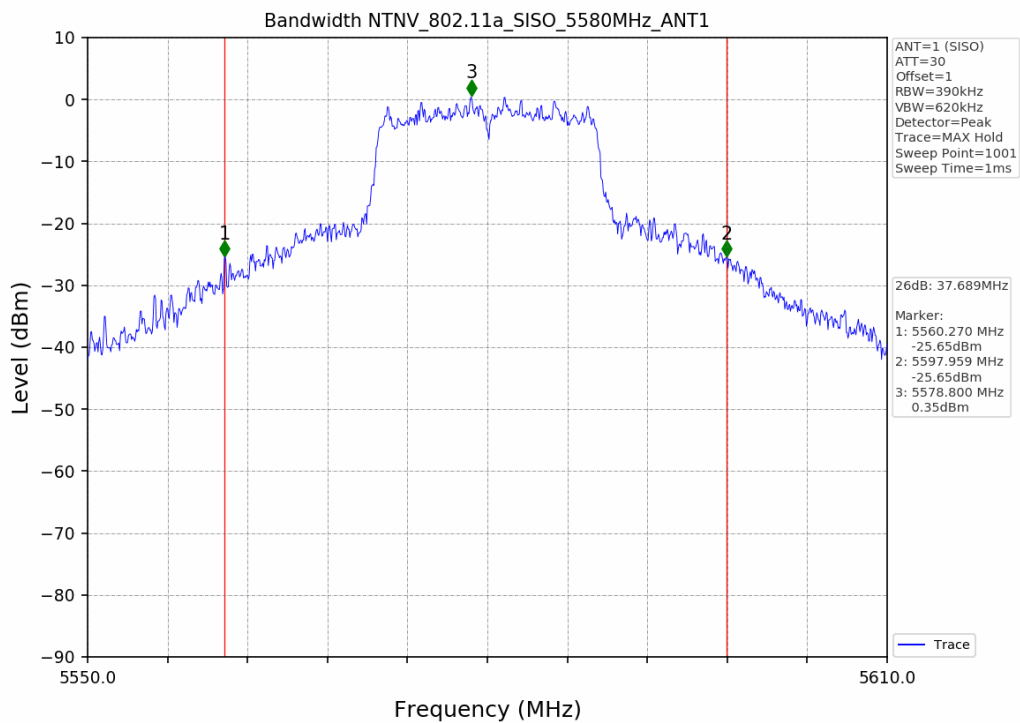
1.2 Test Graph - Emission Bandwidth

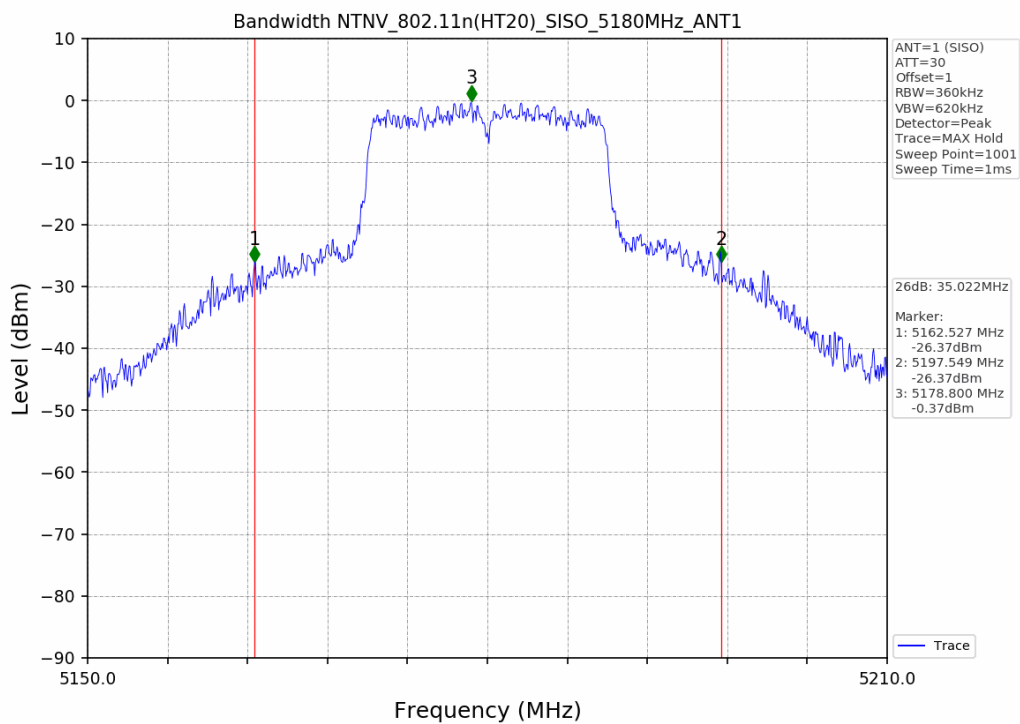
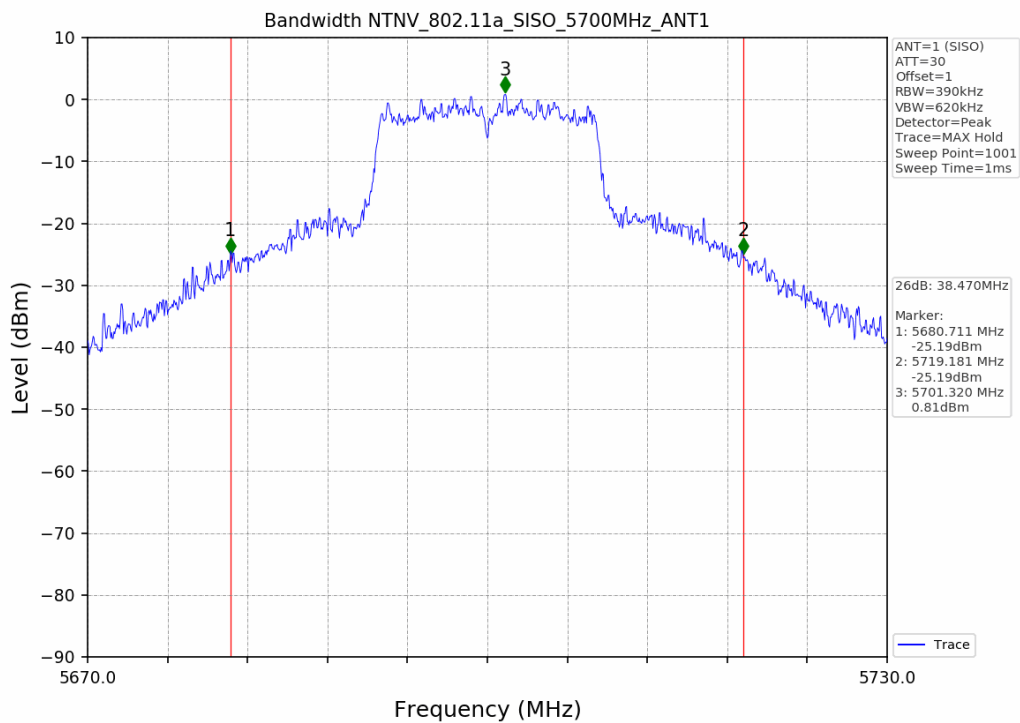


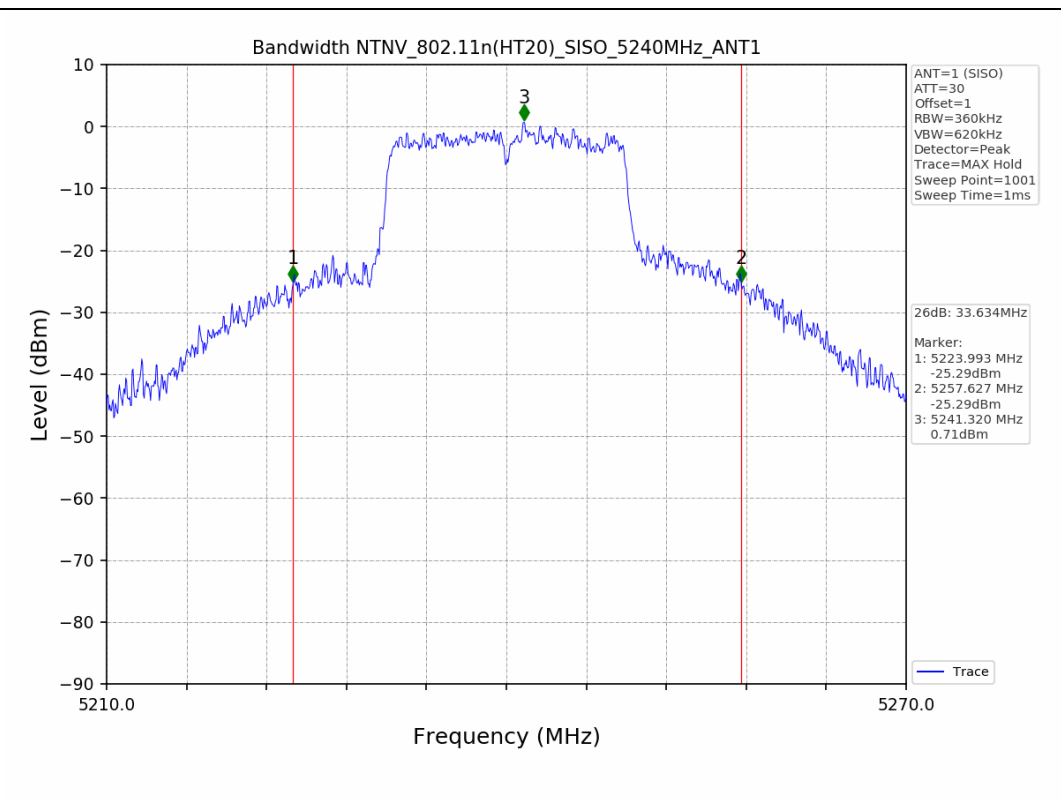
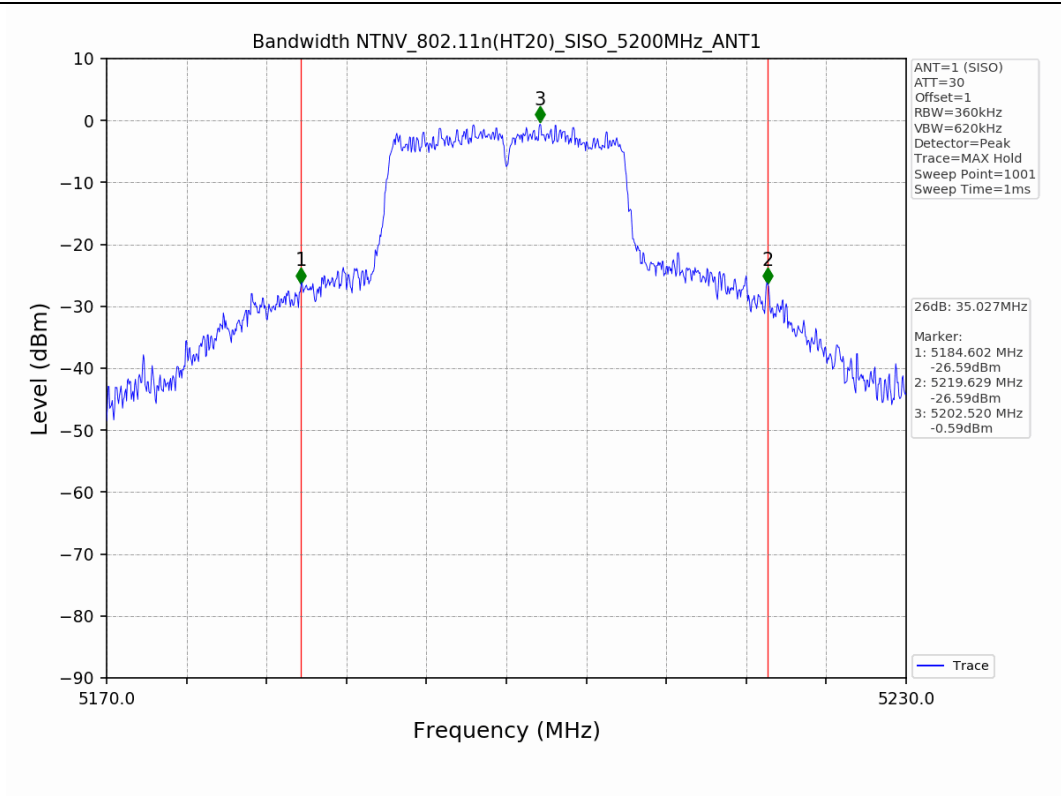


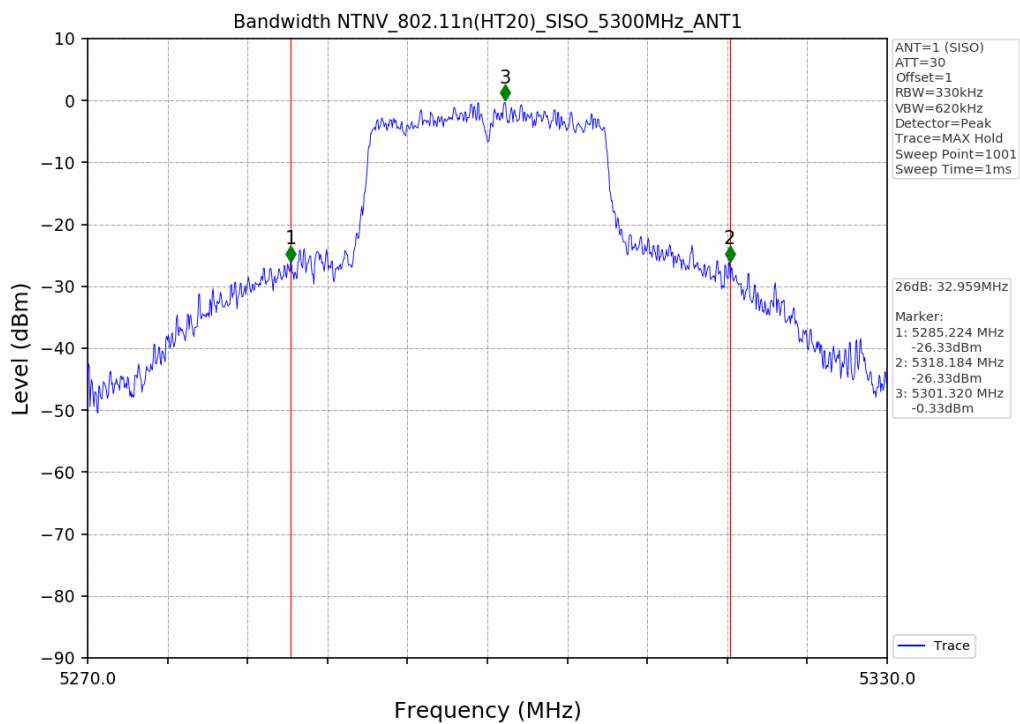
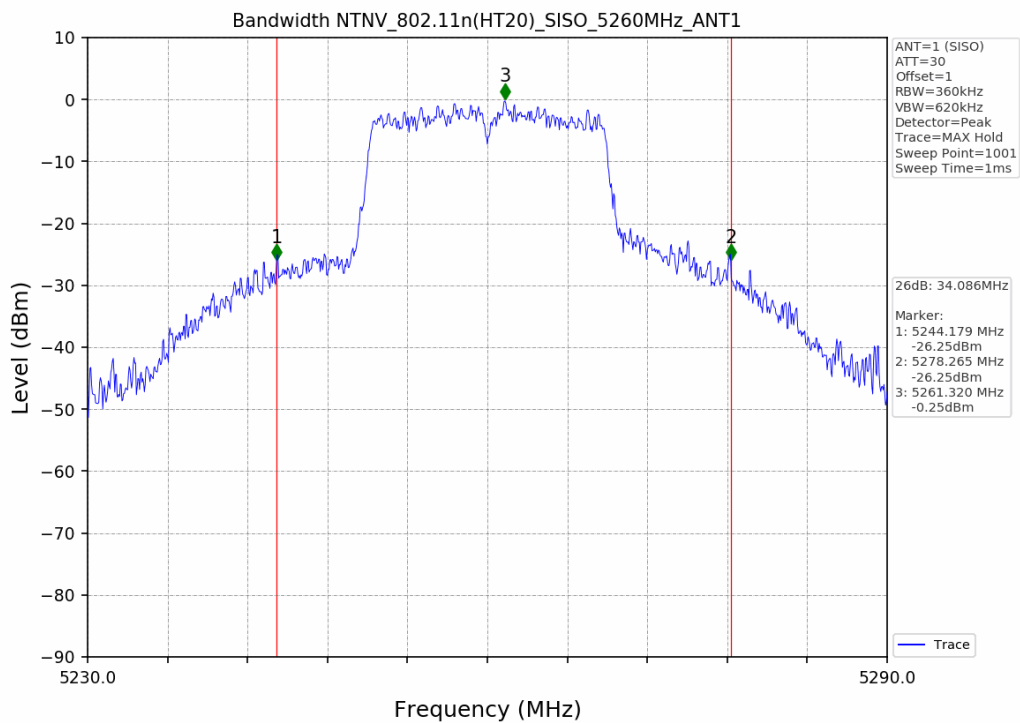


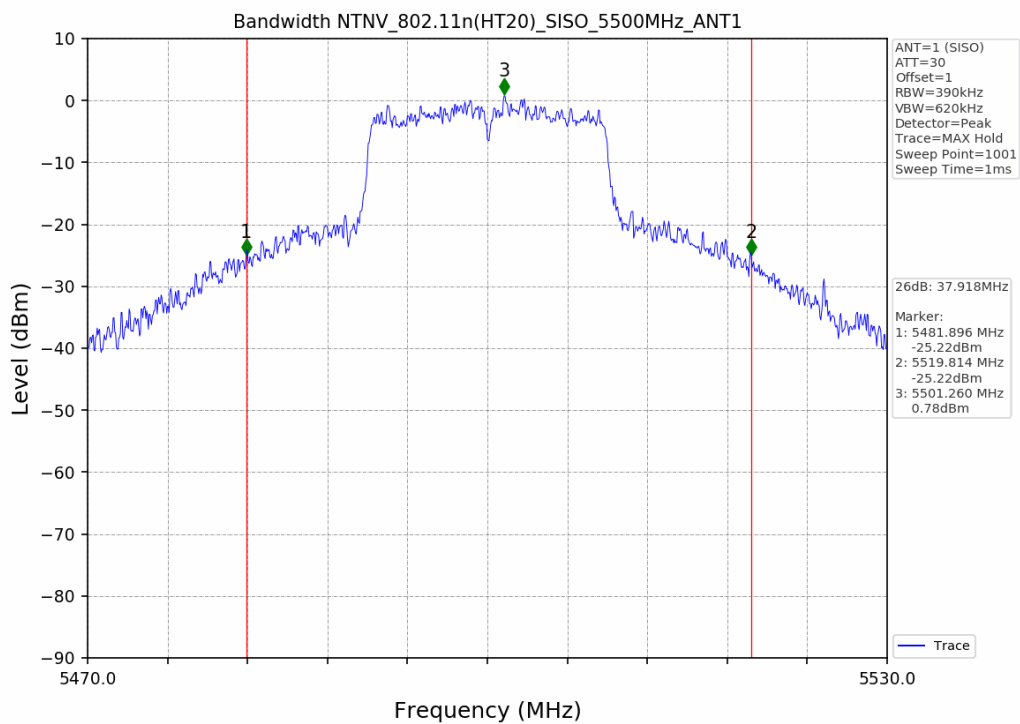
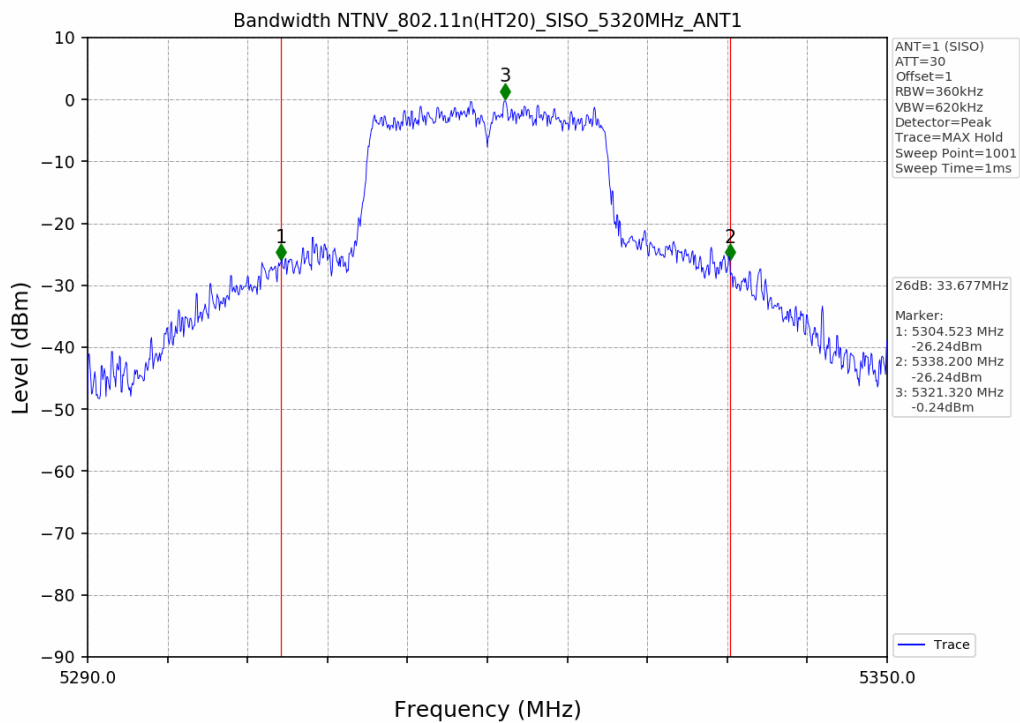


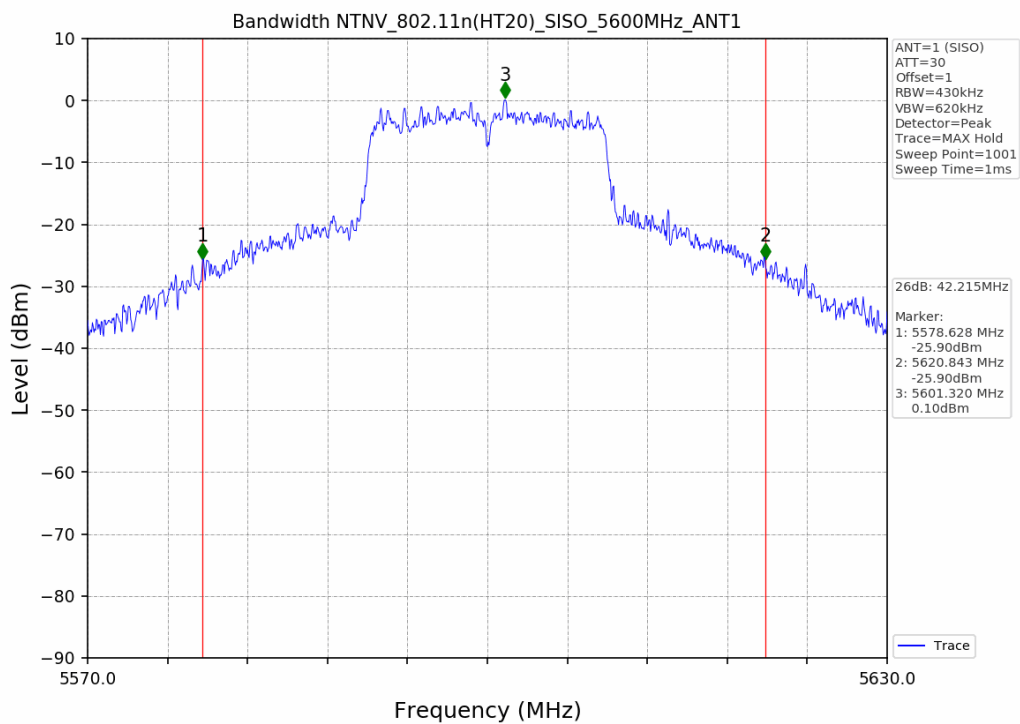
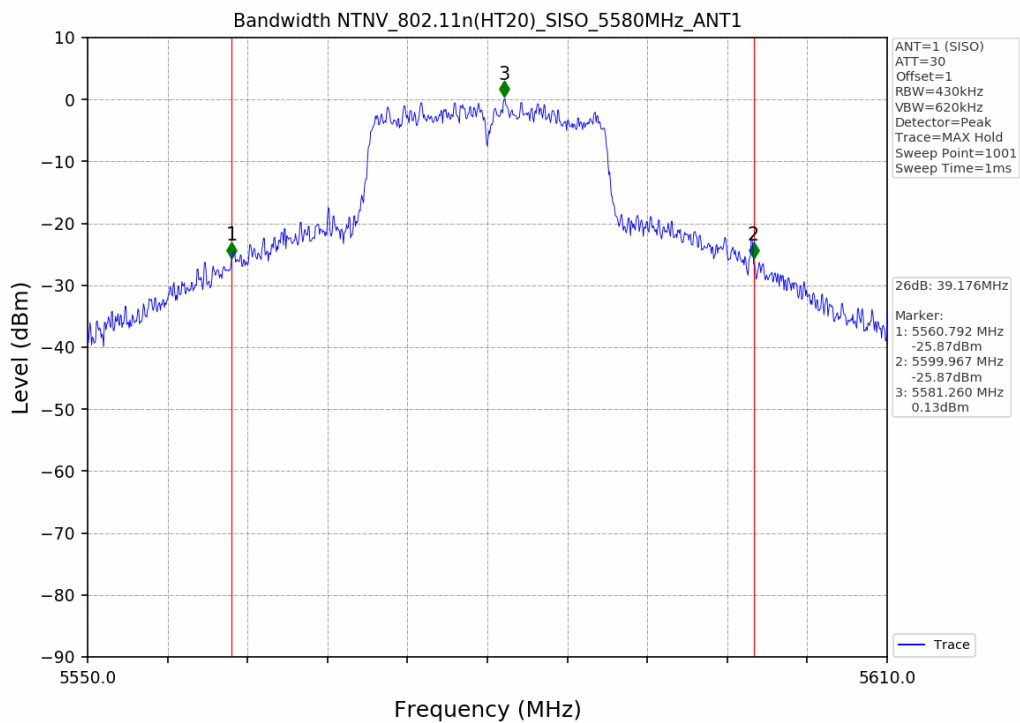


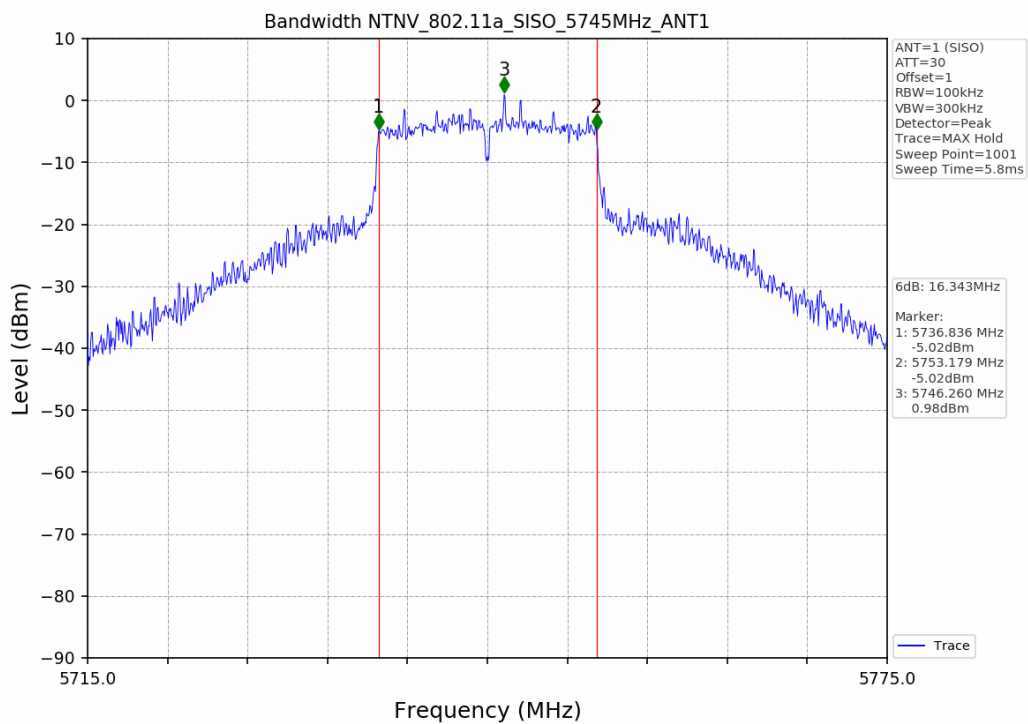
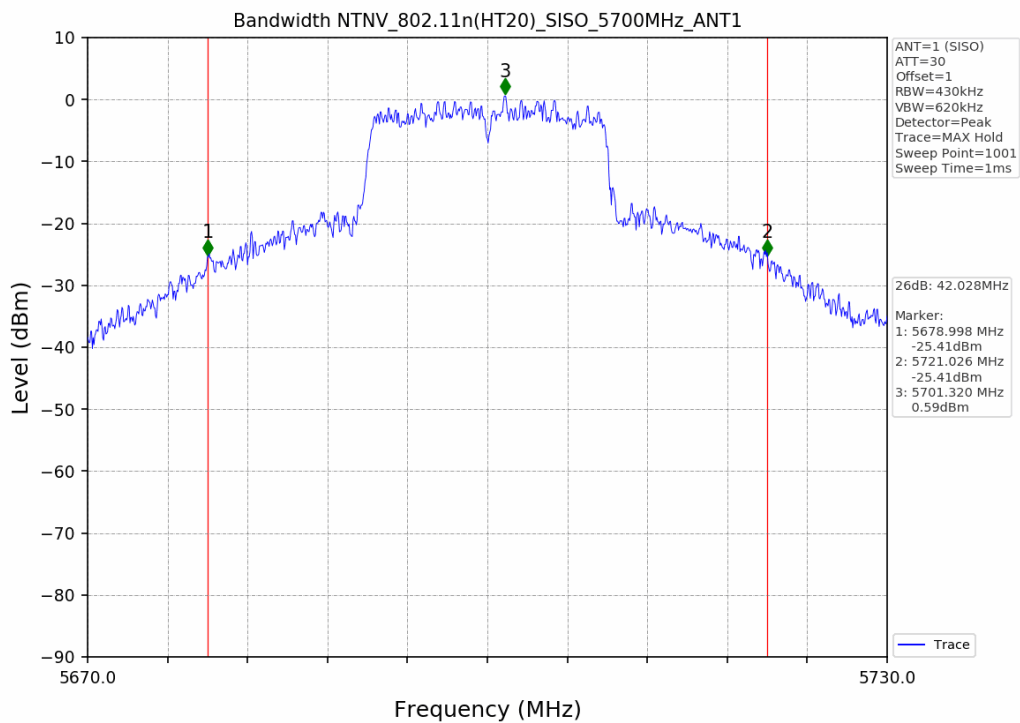


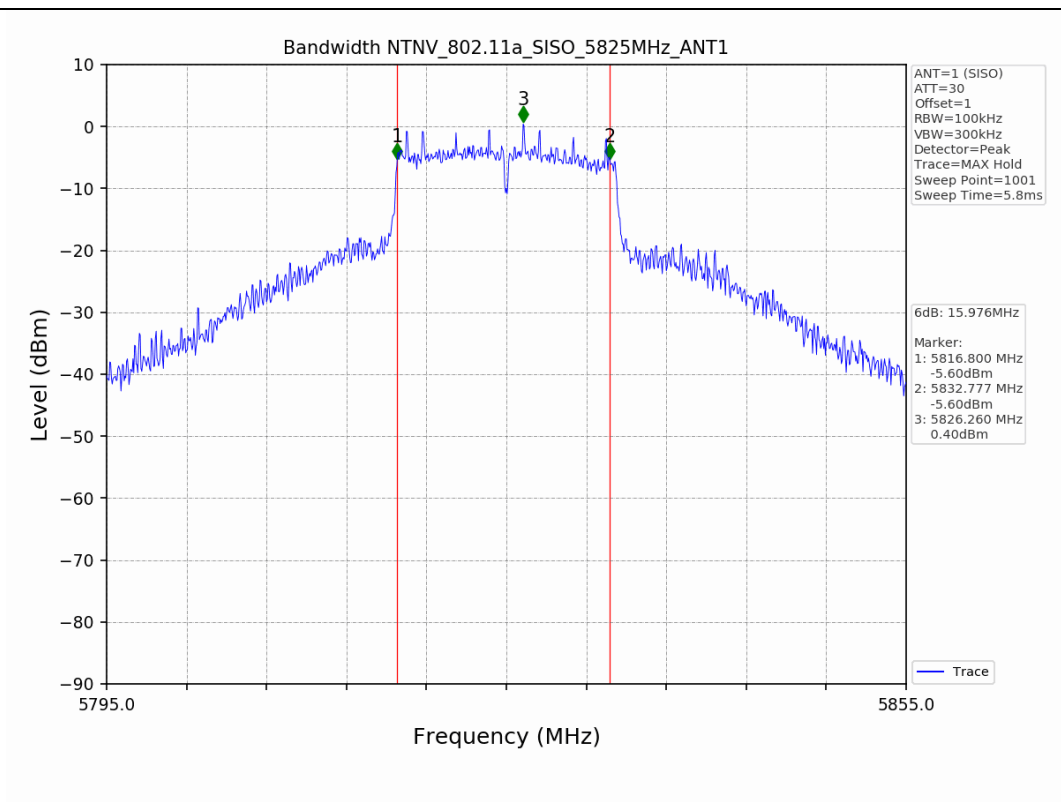
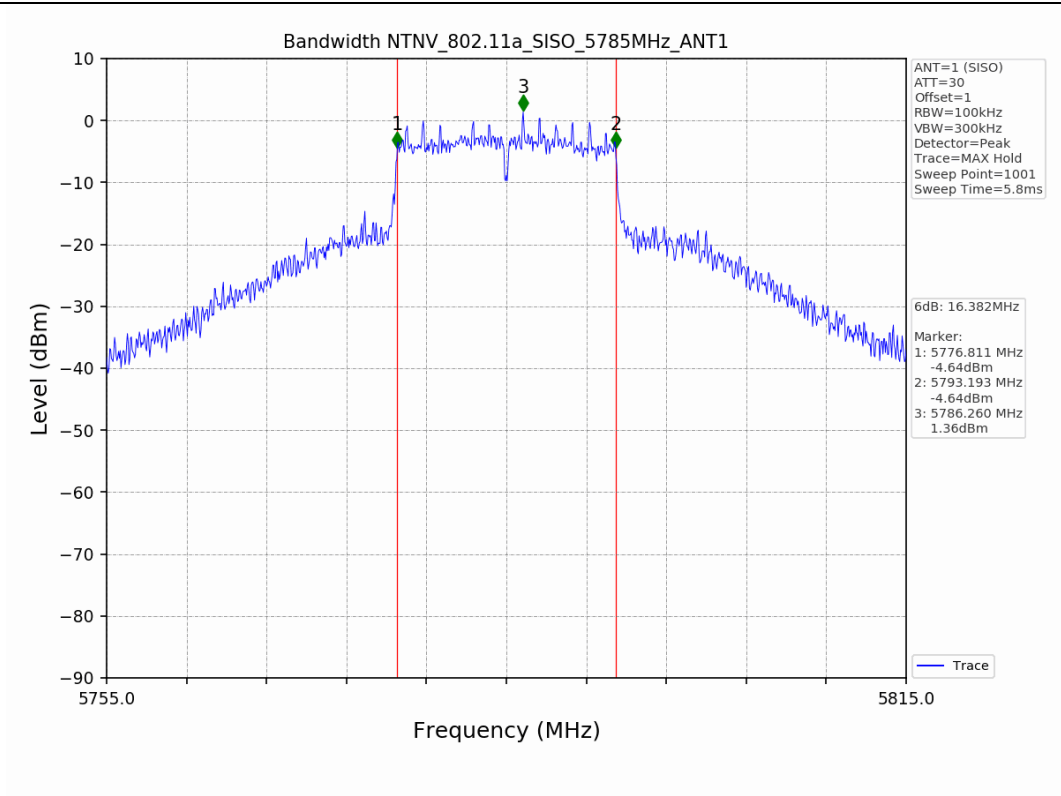


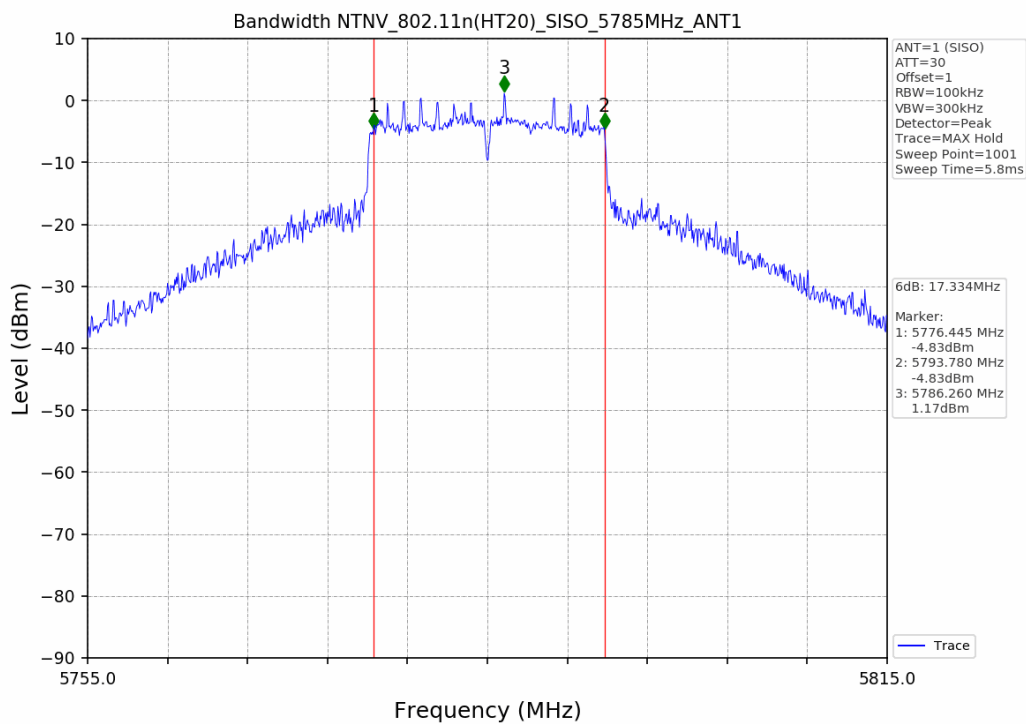
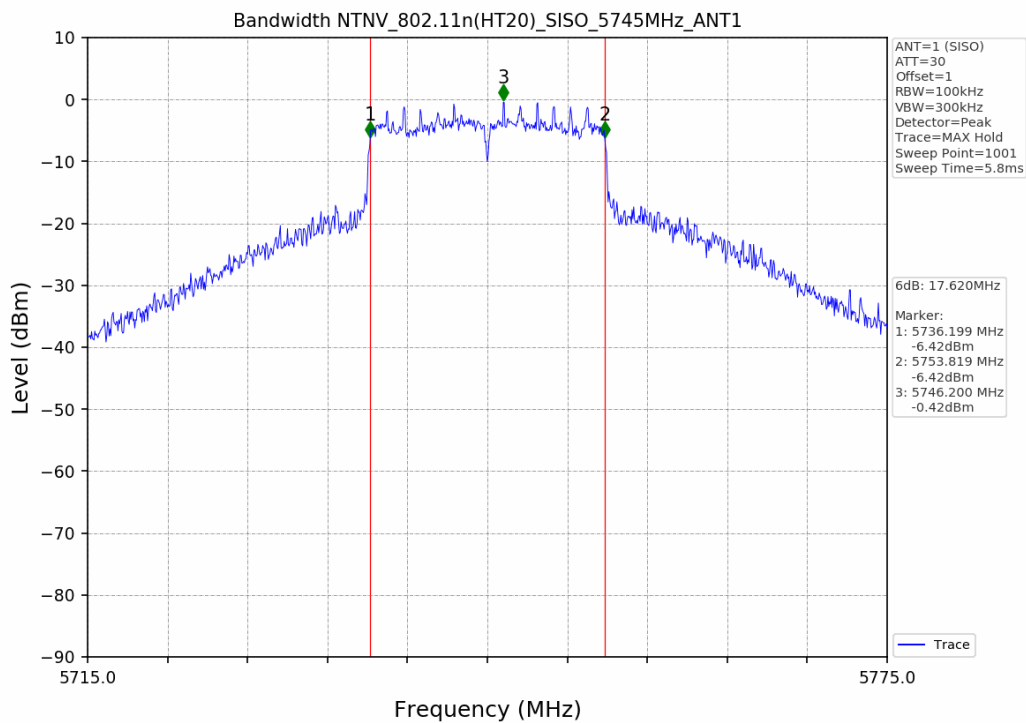


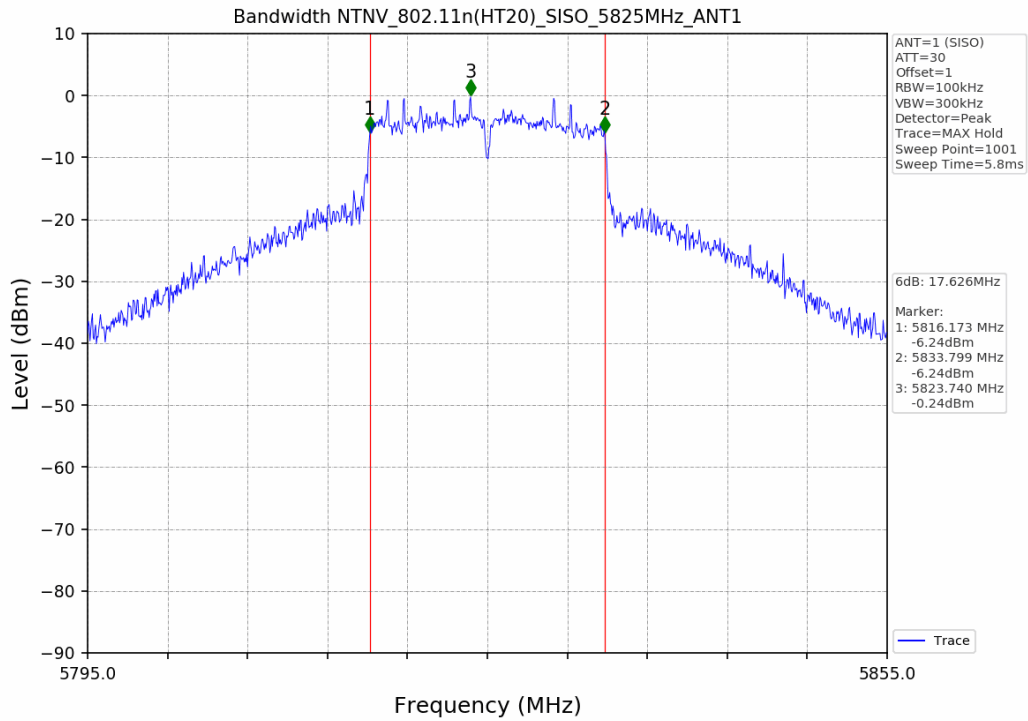




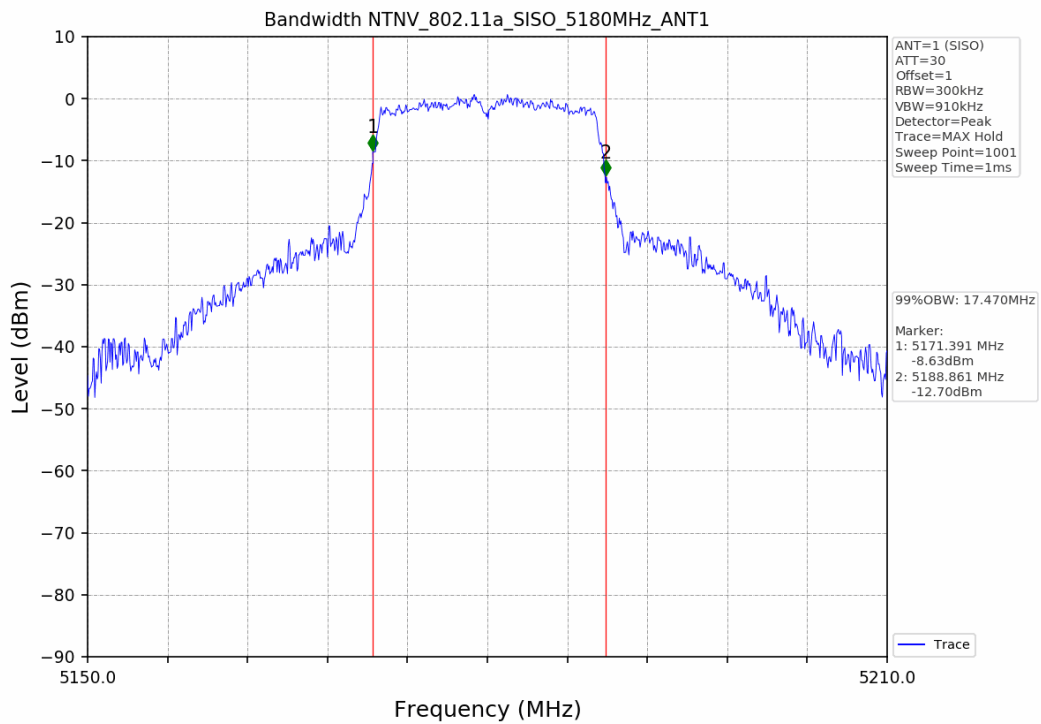


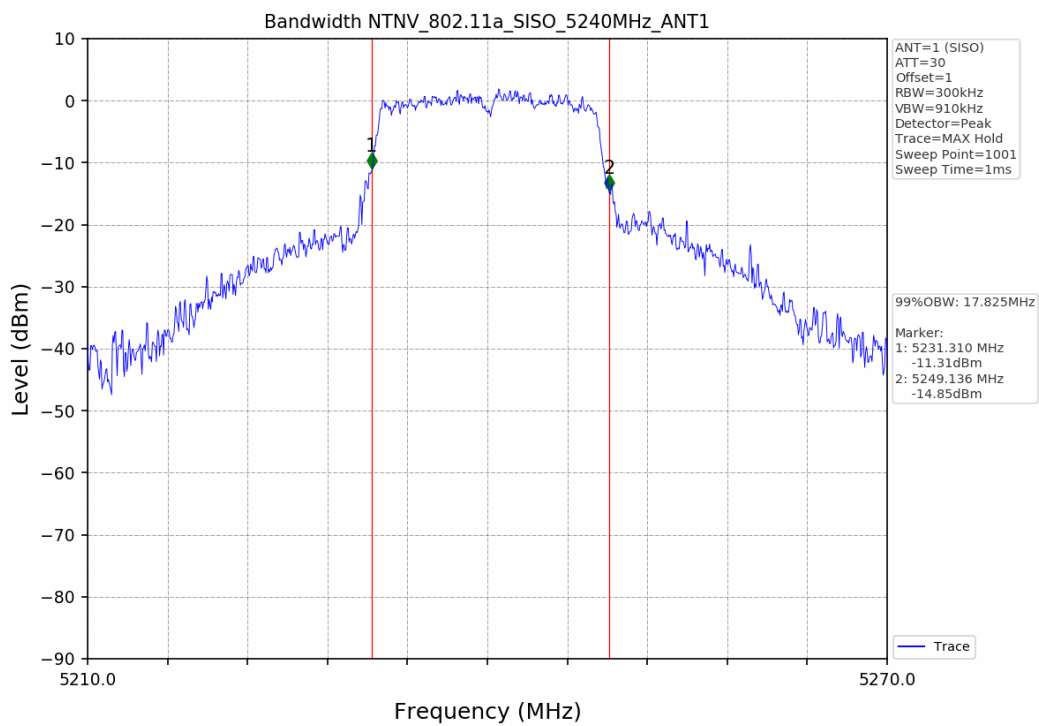
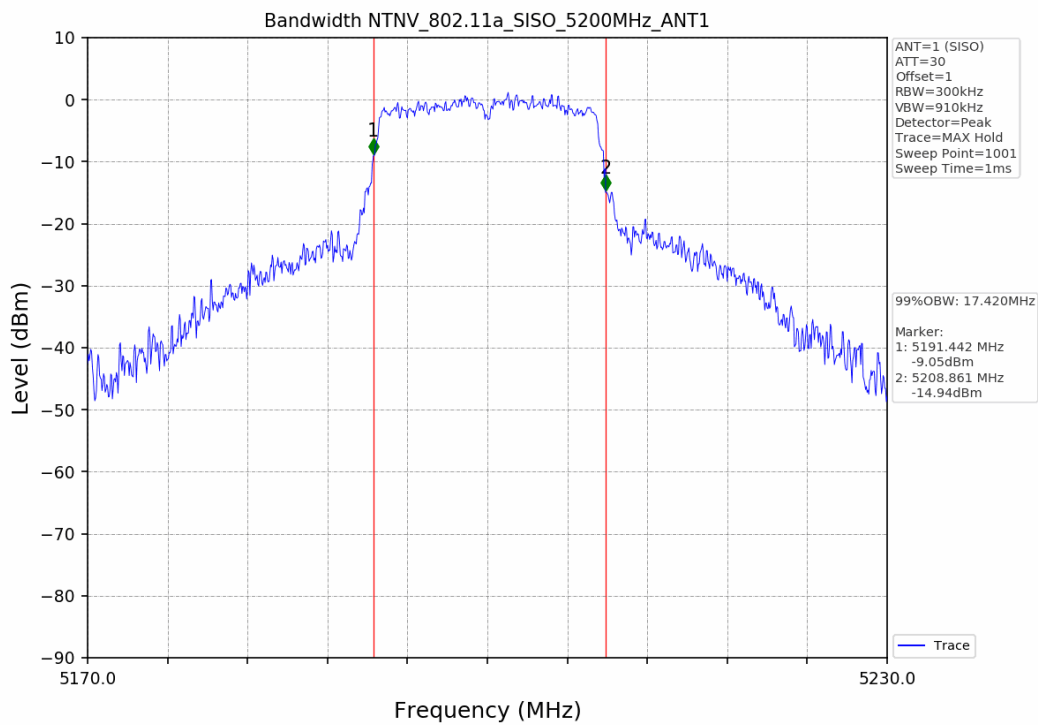


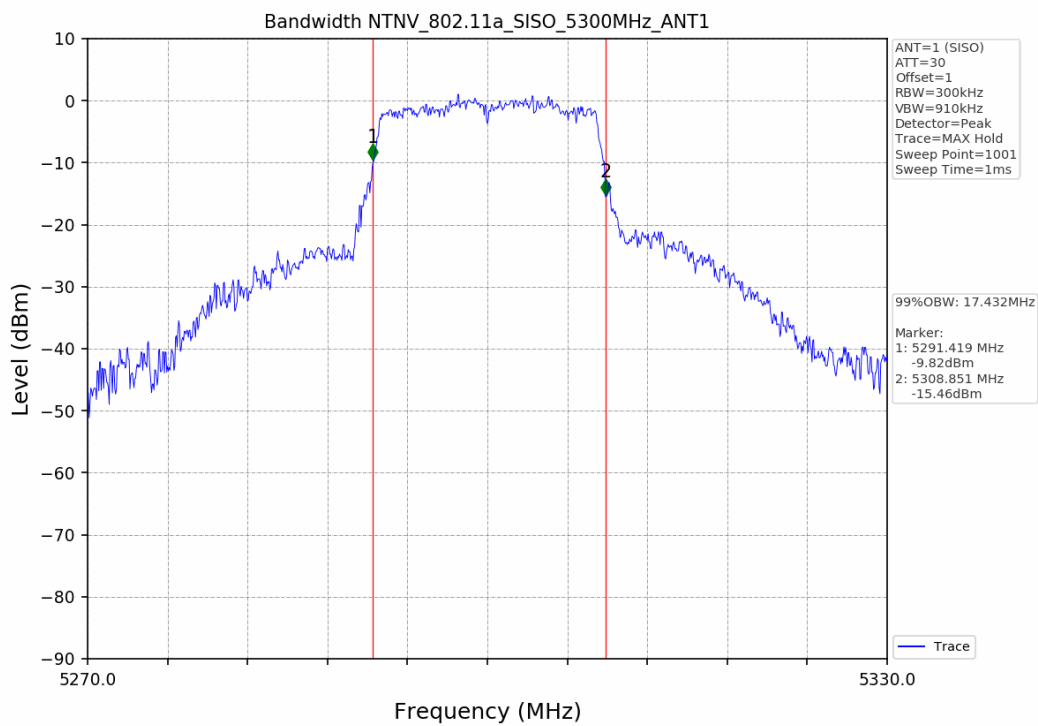
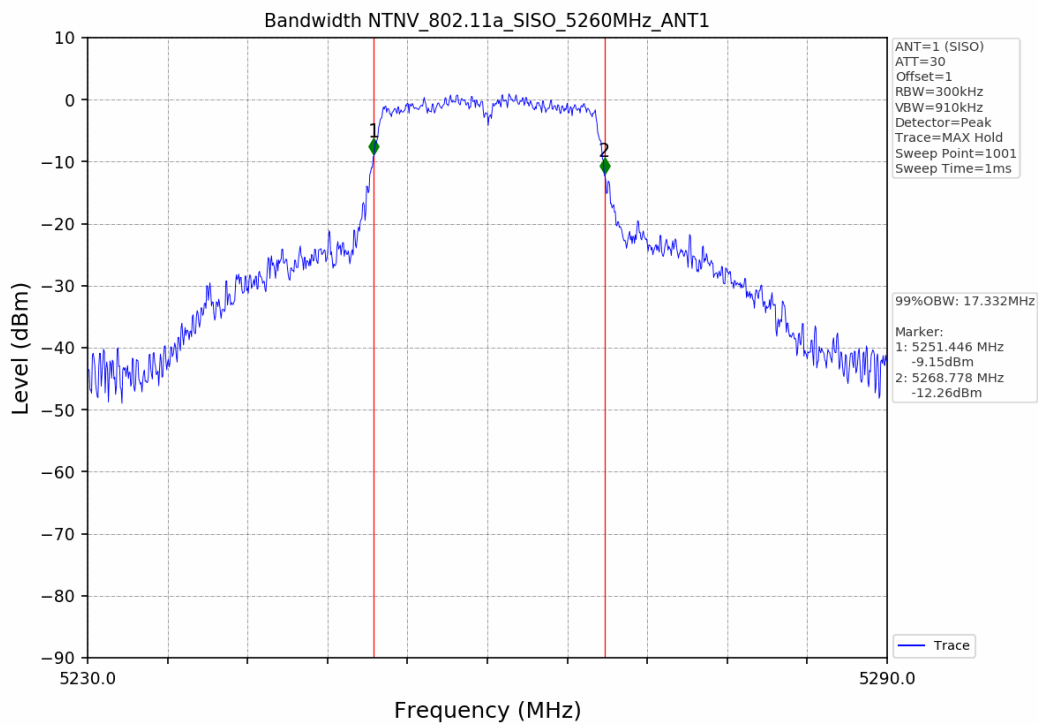


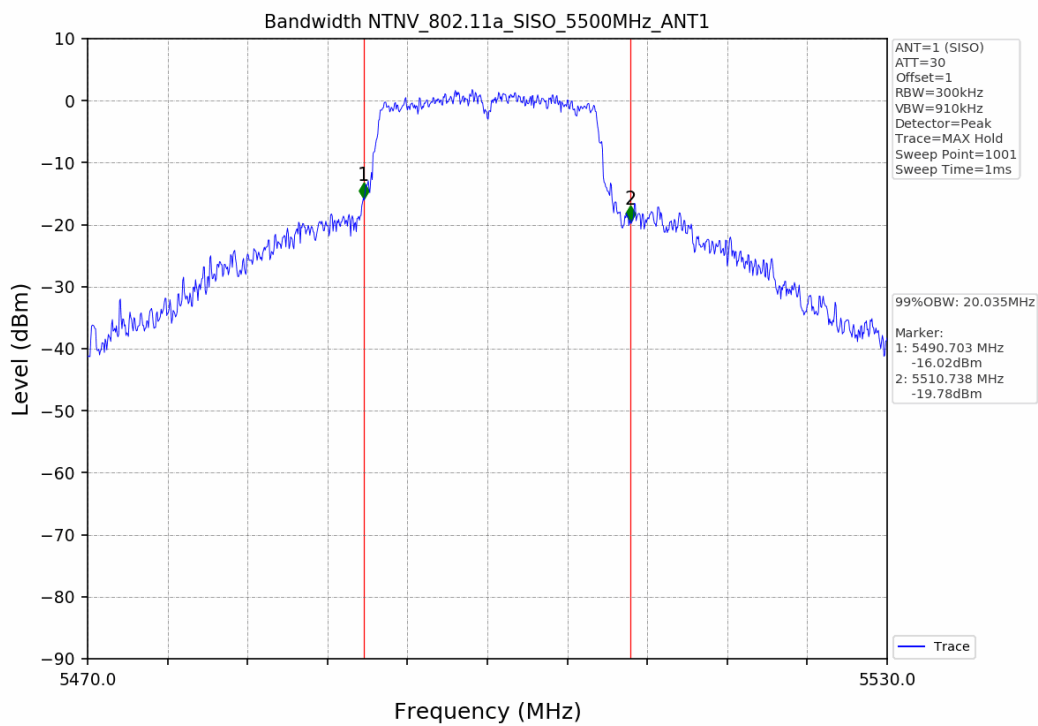
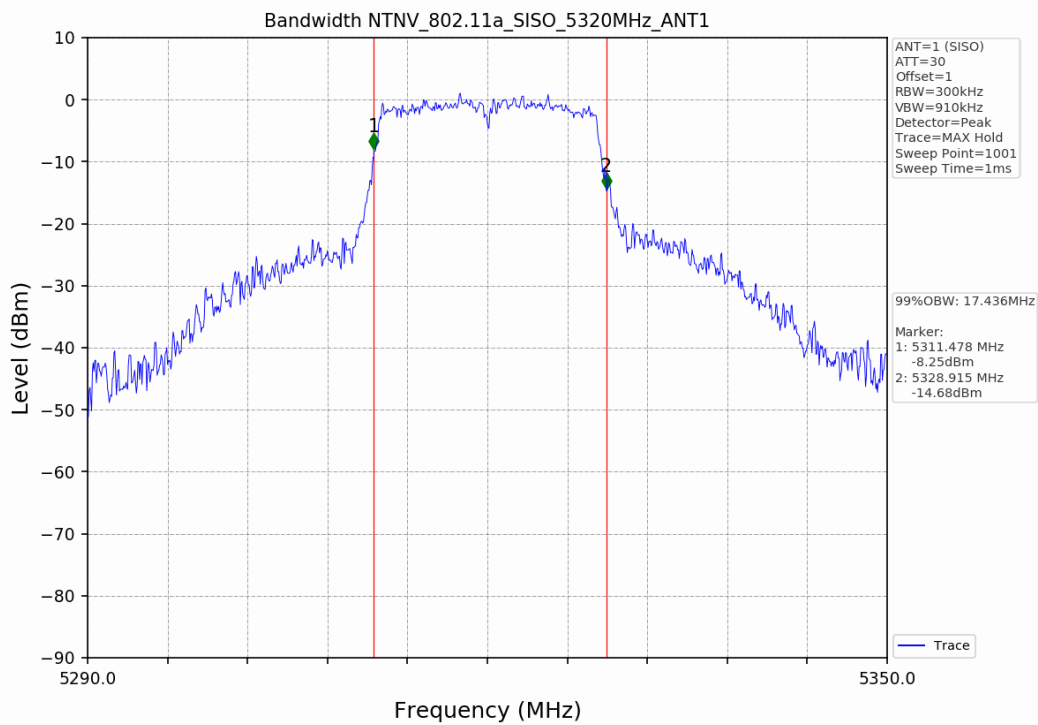


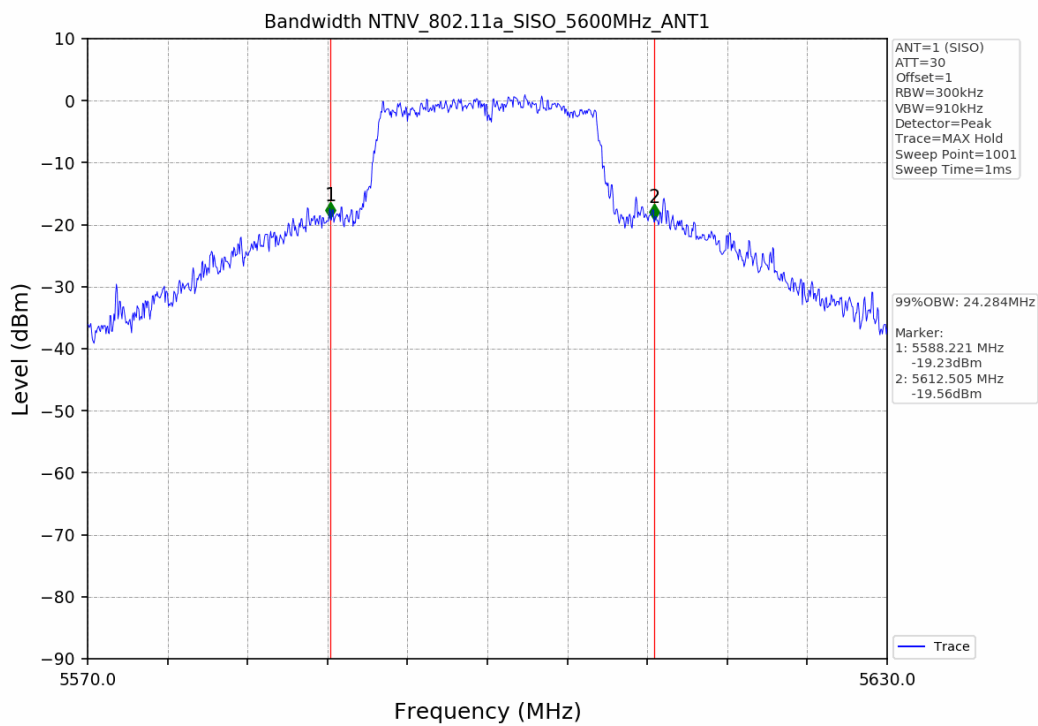
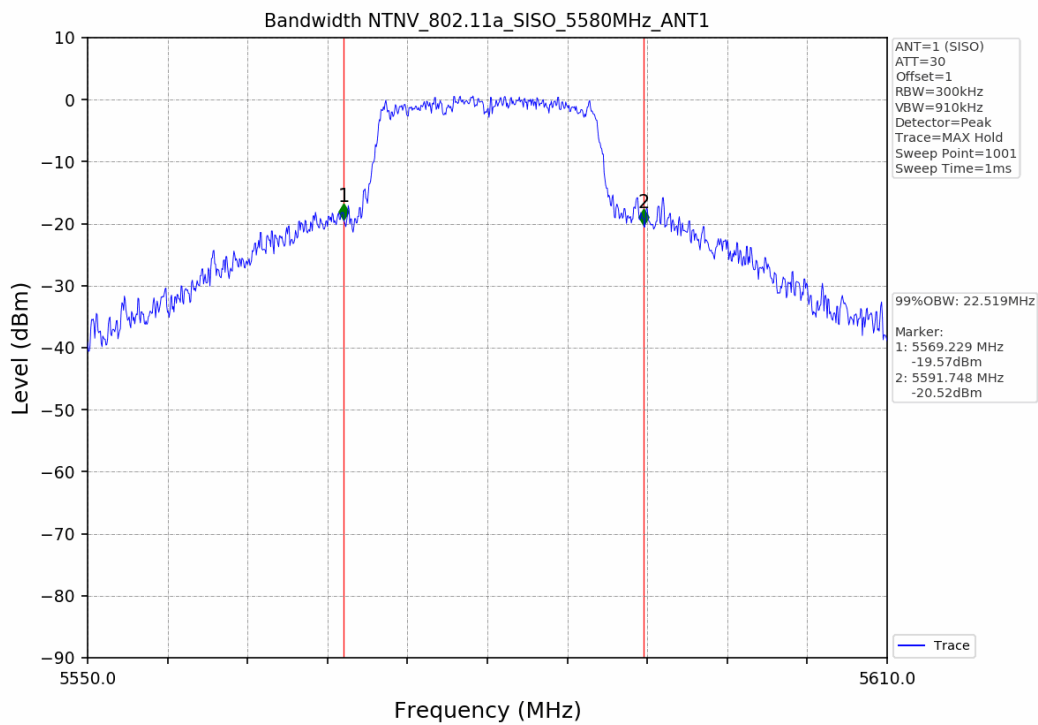
1.3 Test Graph - 99% Occupied Bandwidth

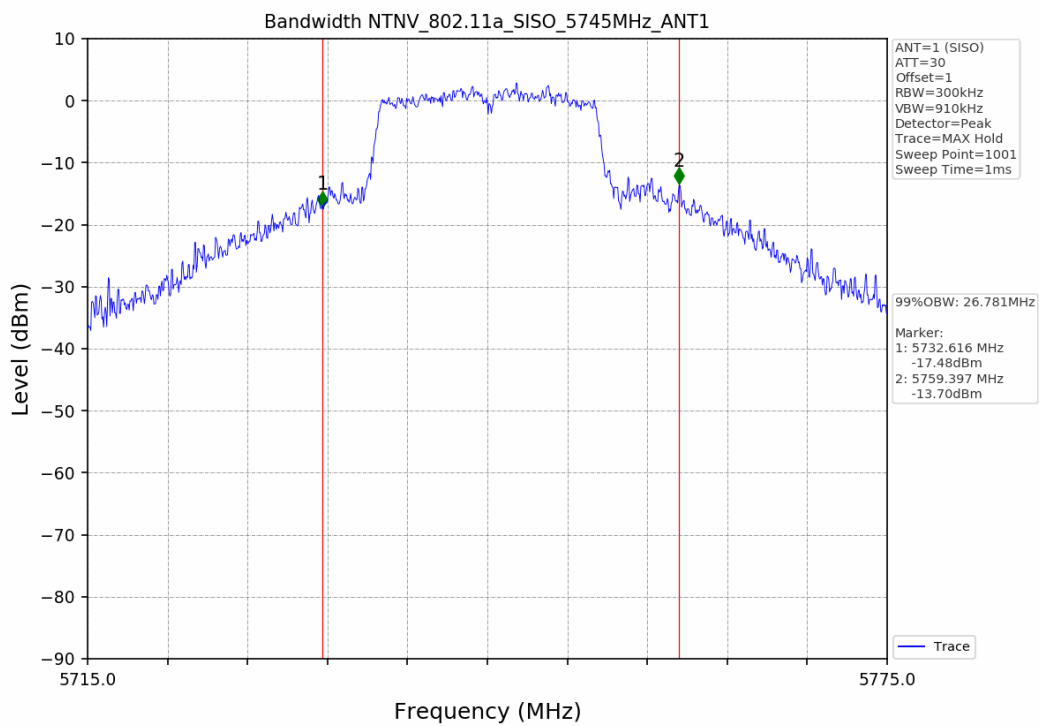
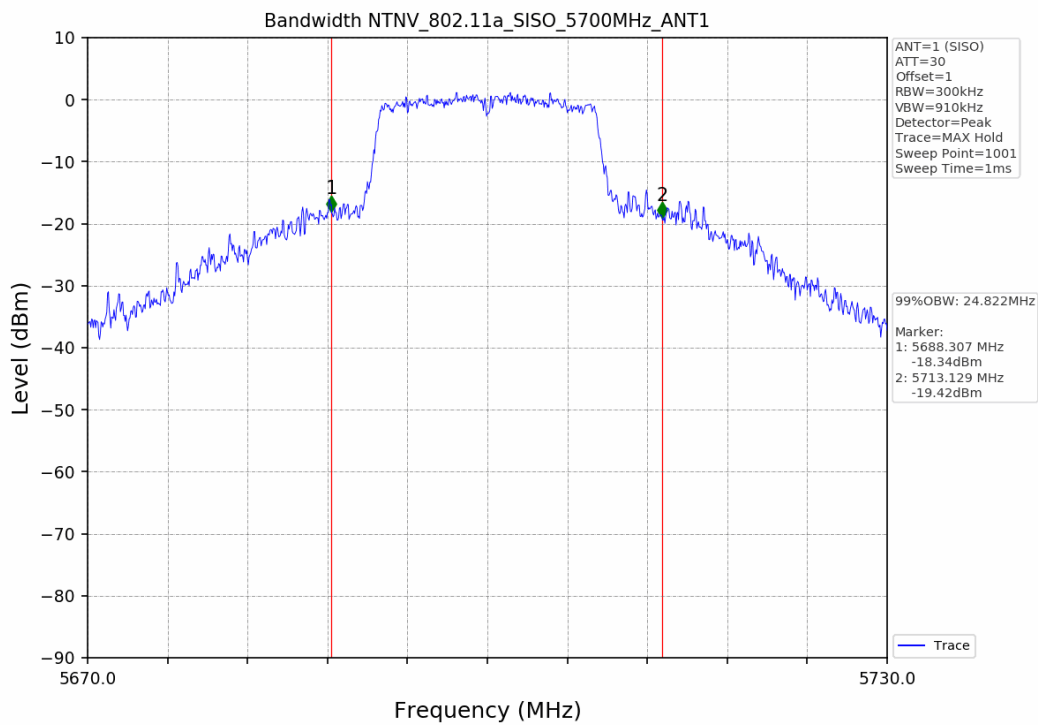


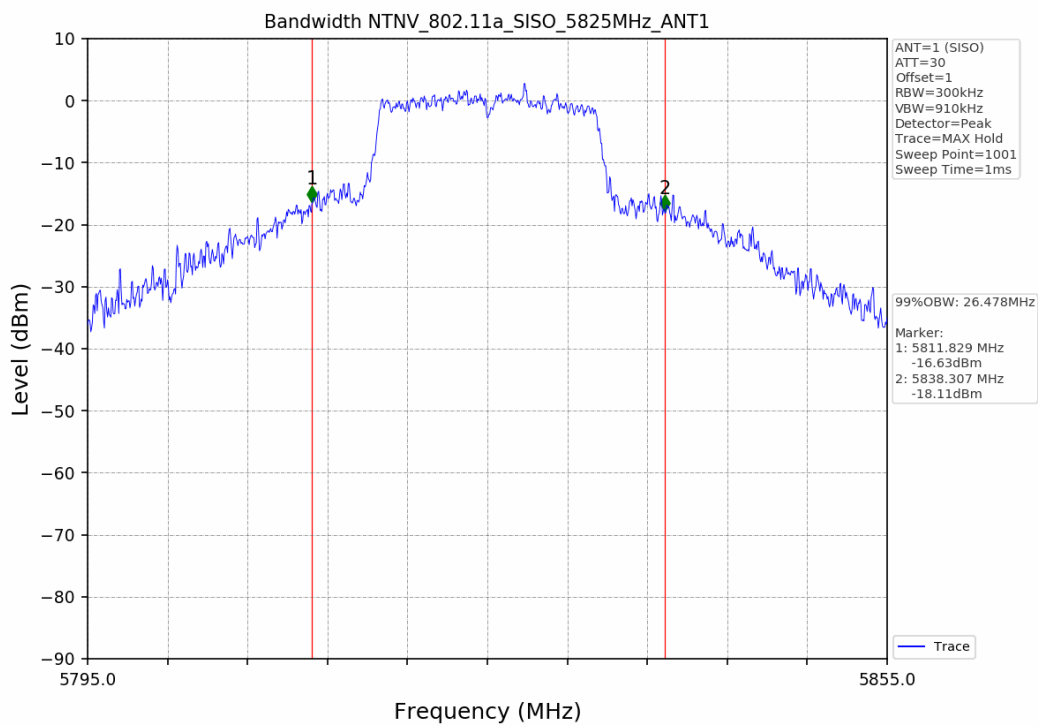
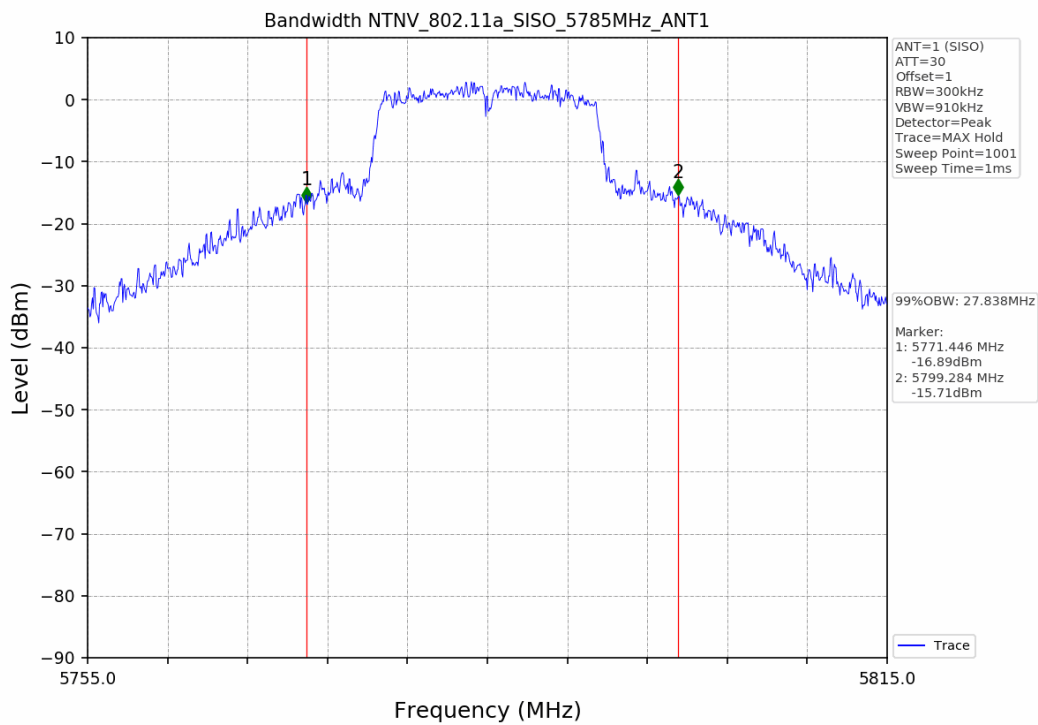


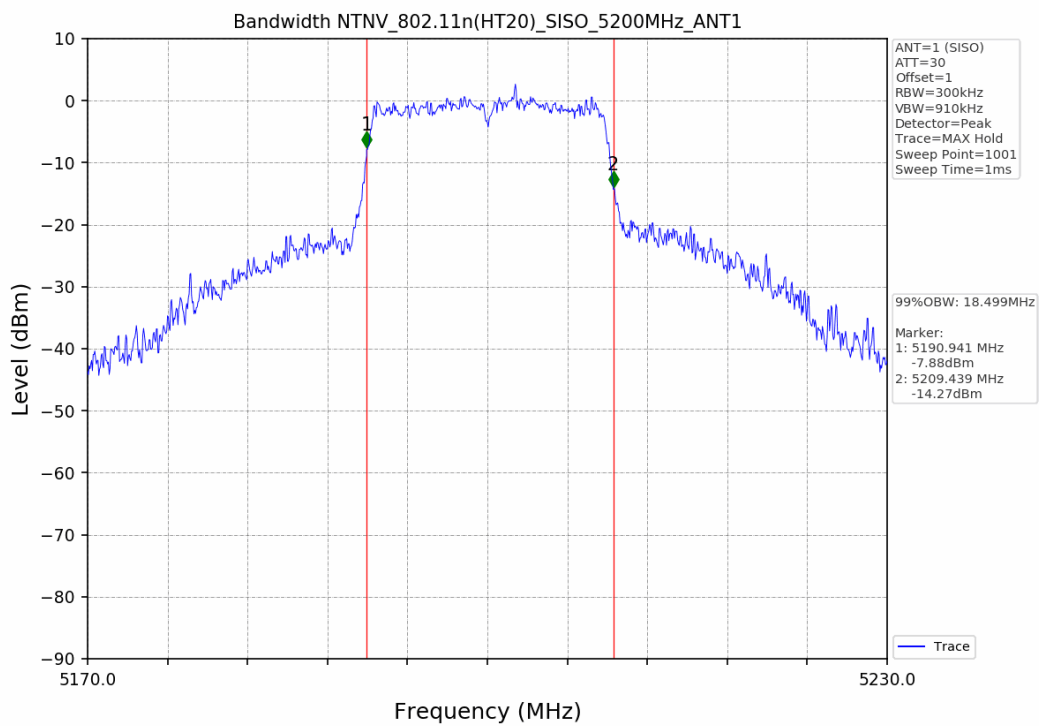
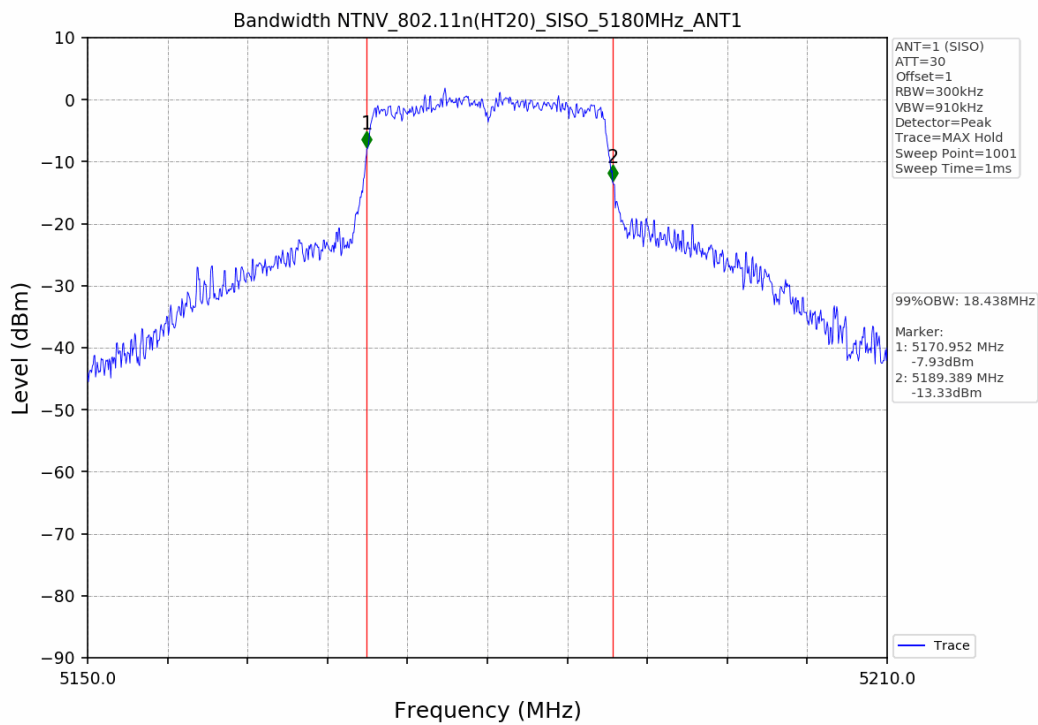


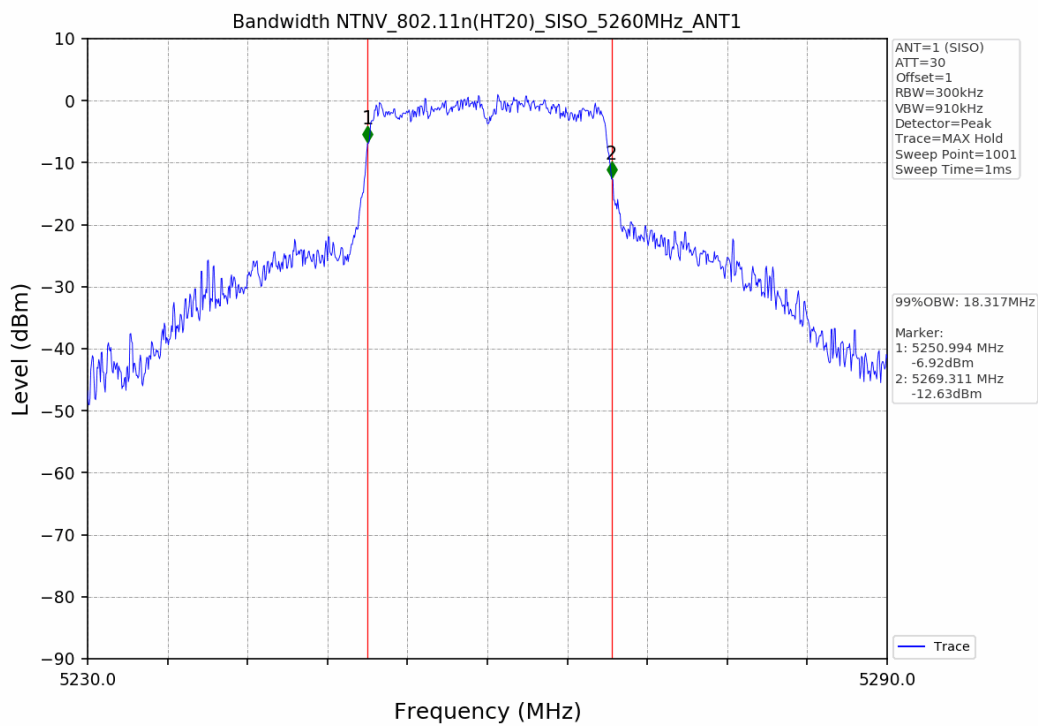
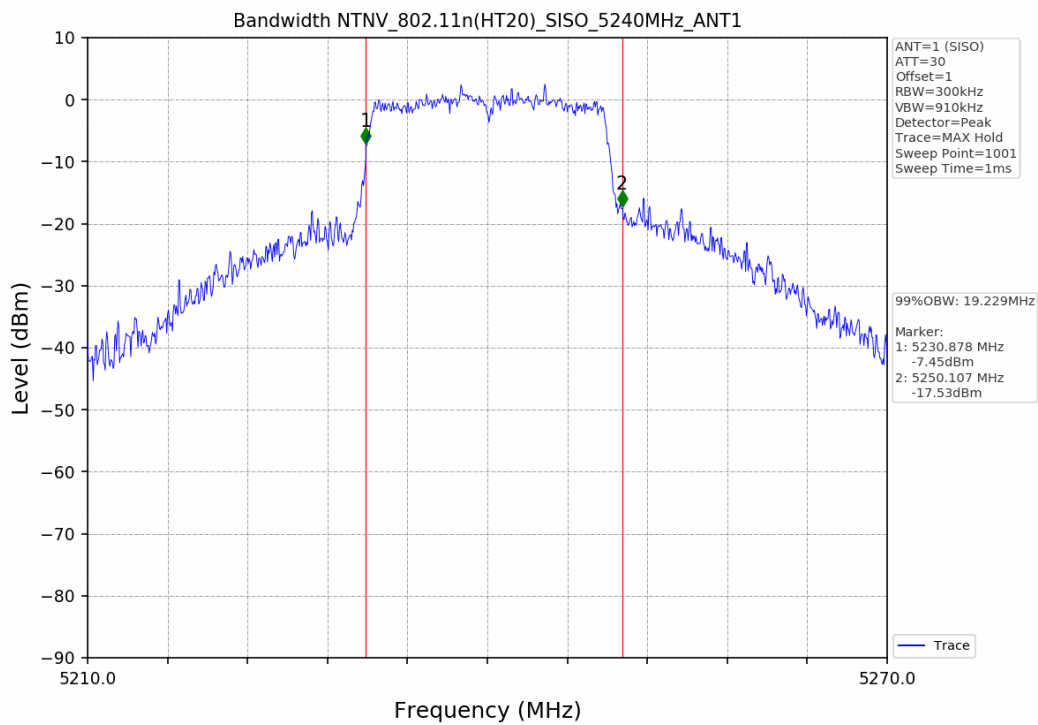


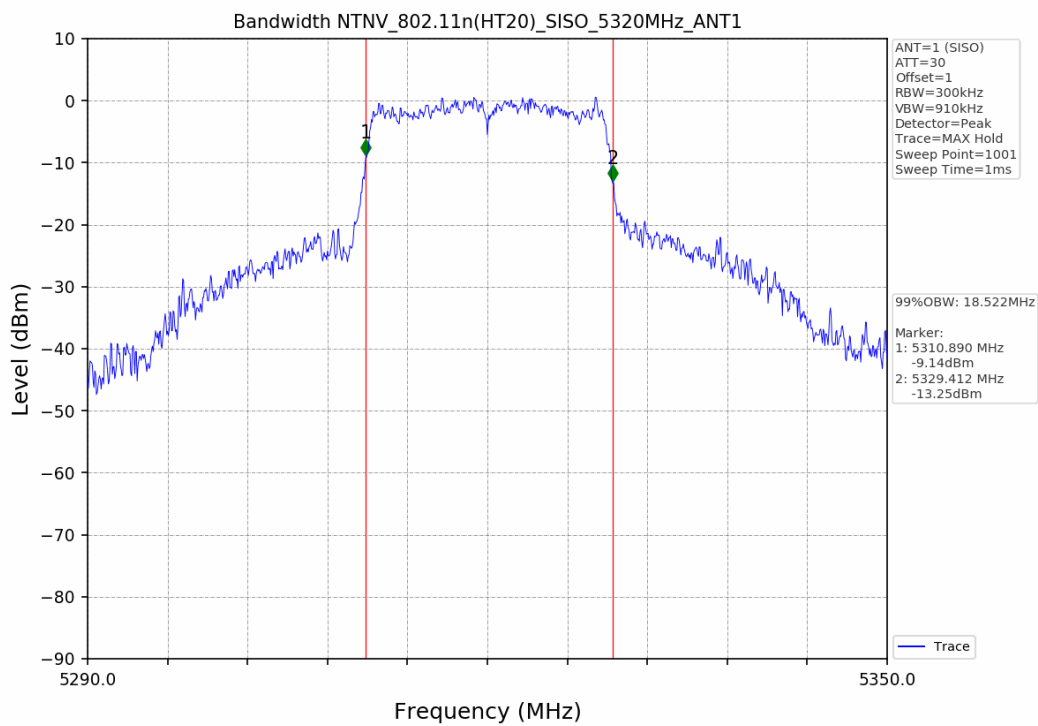
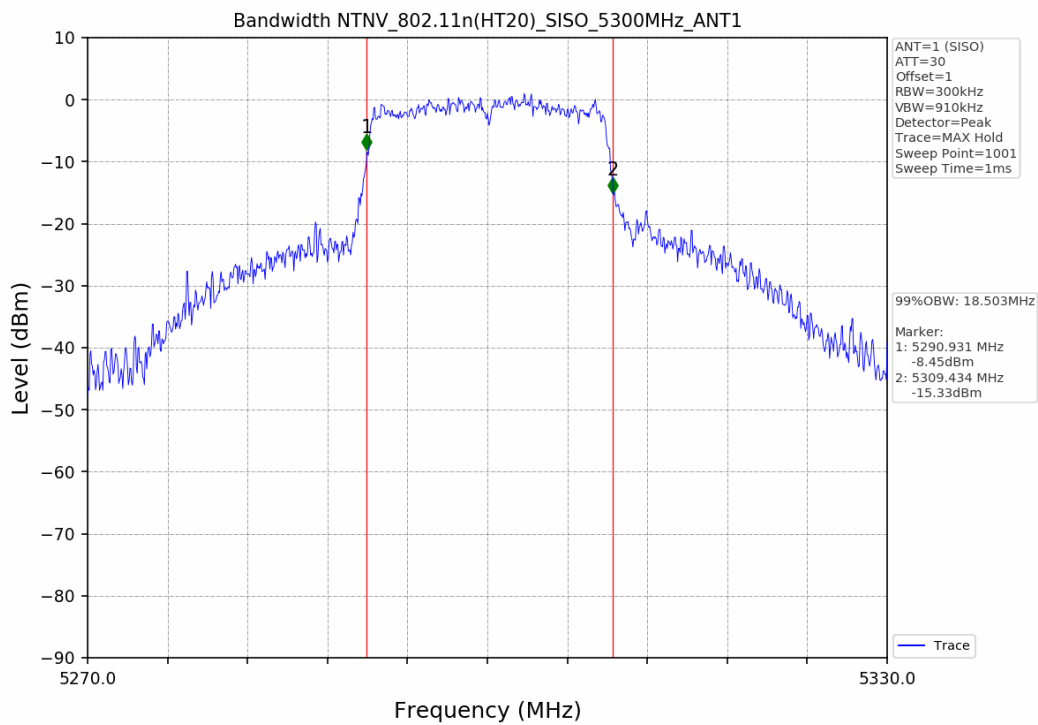


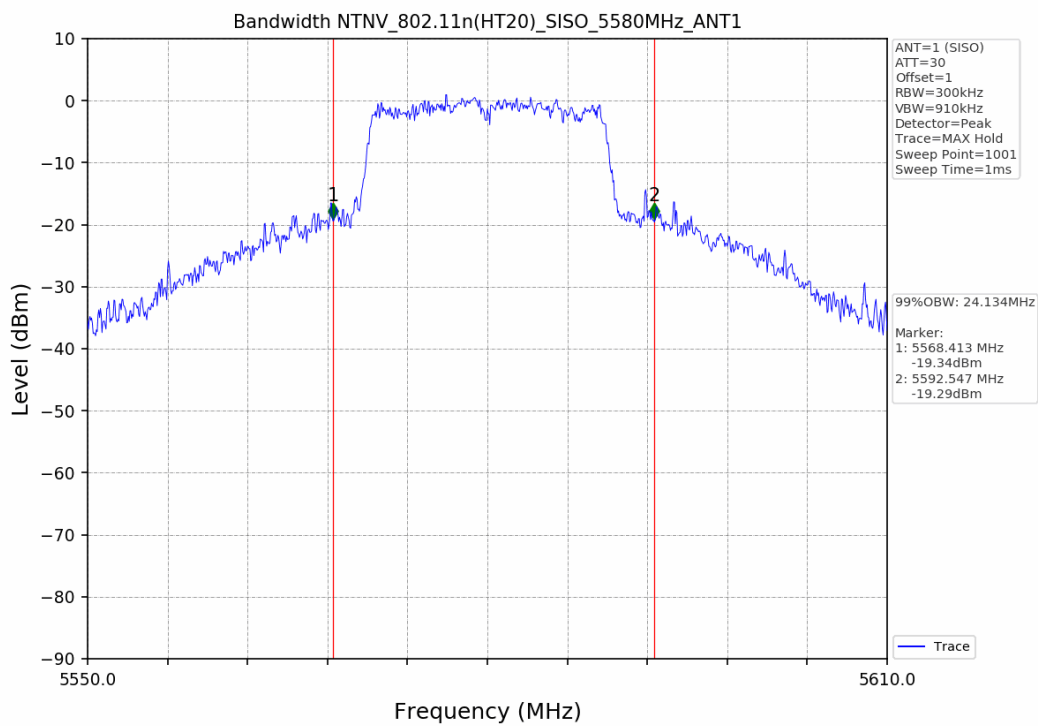
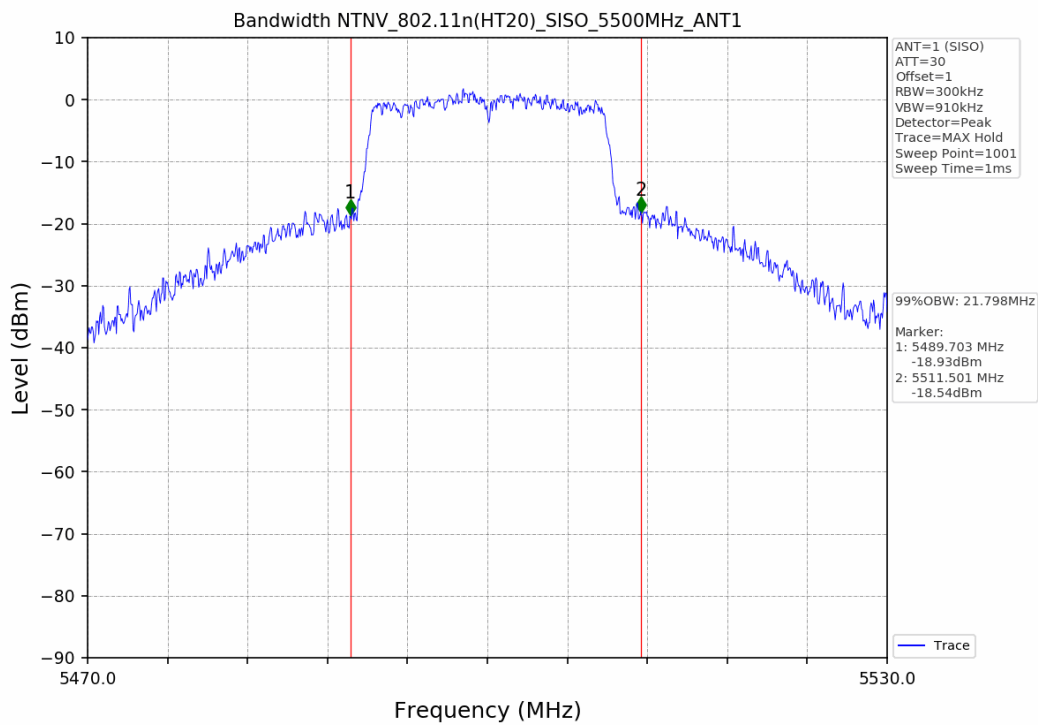


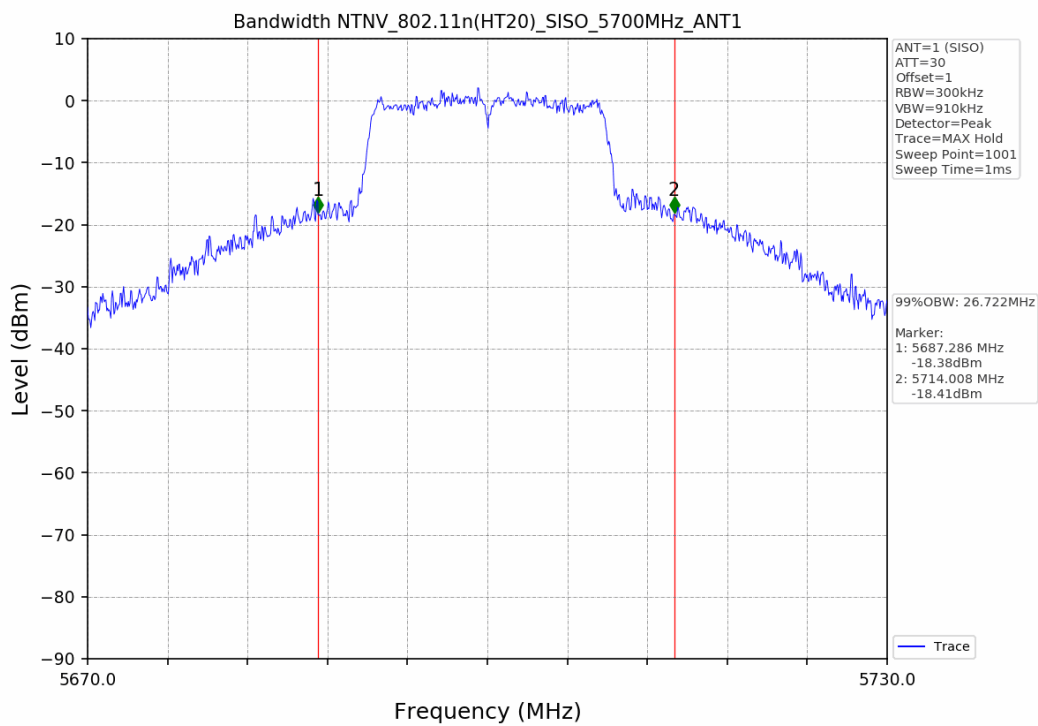
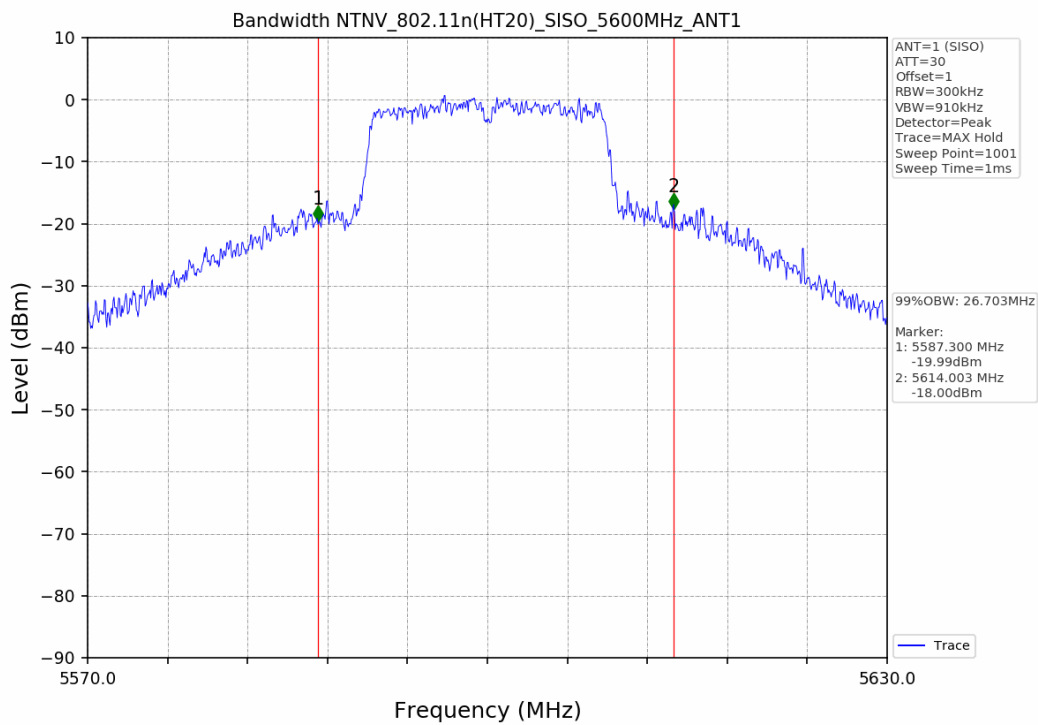


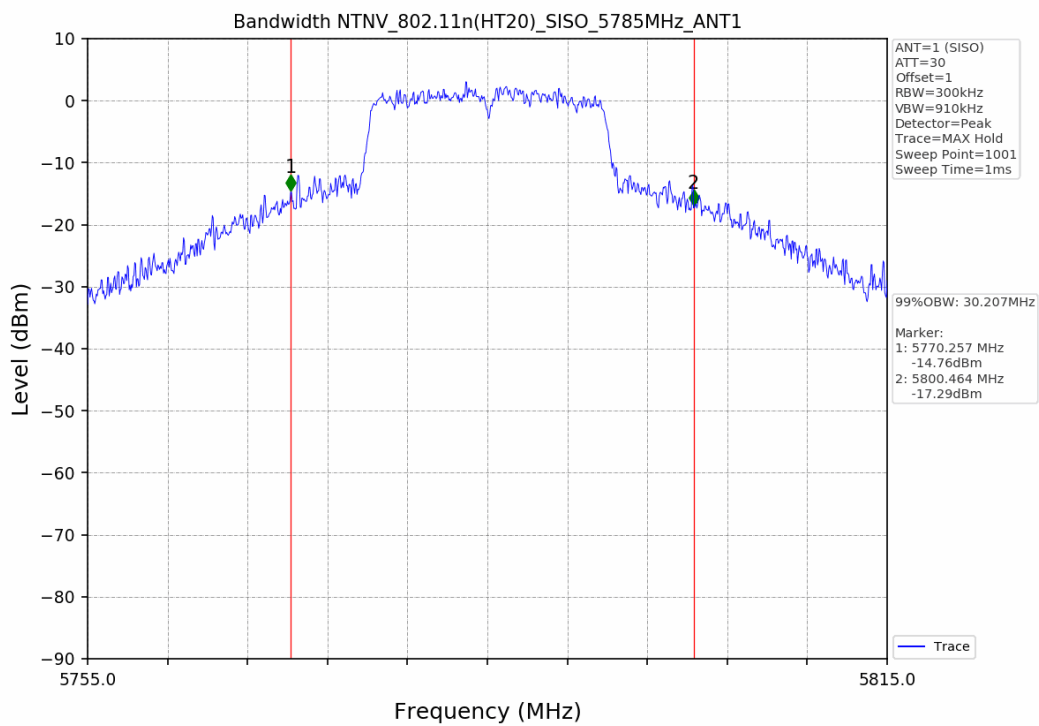
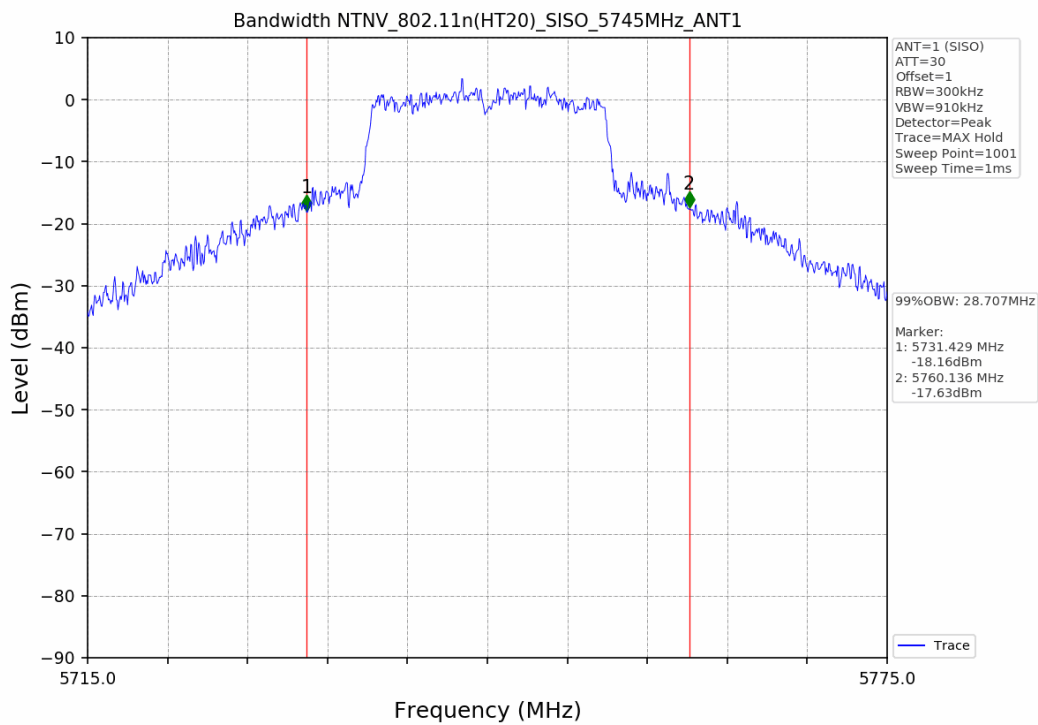


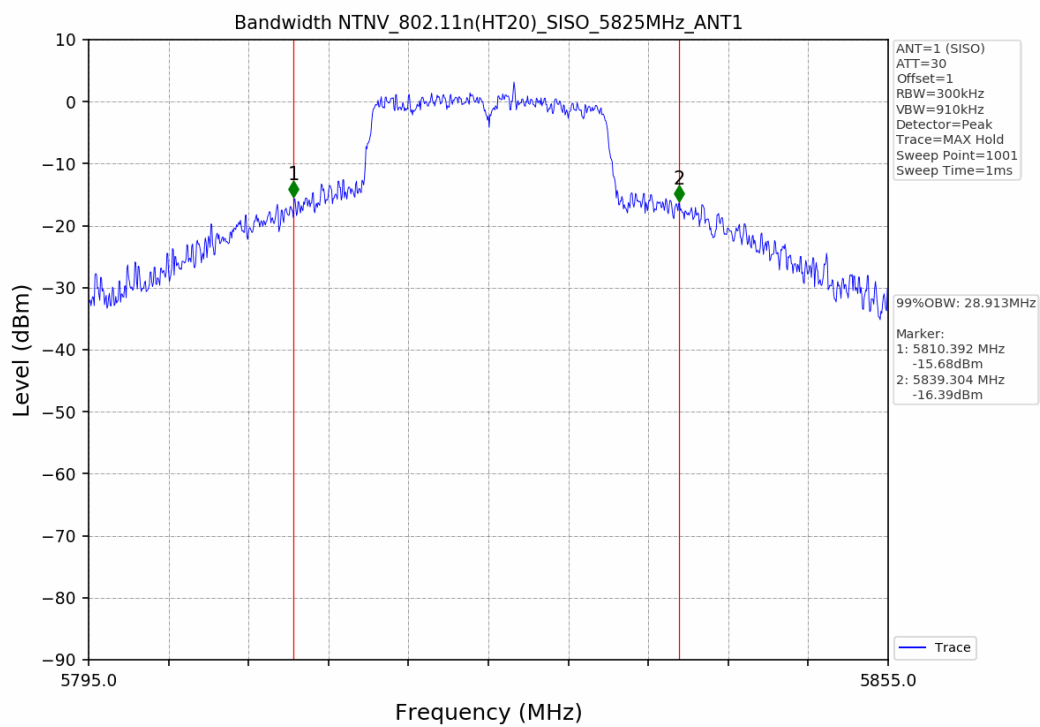










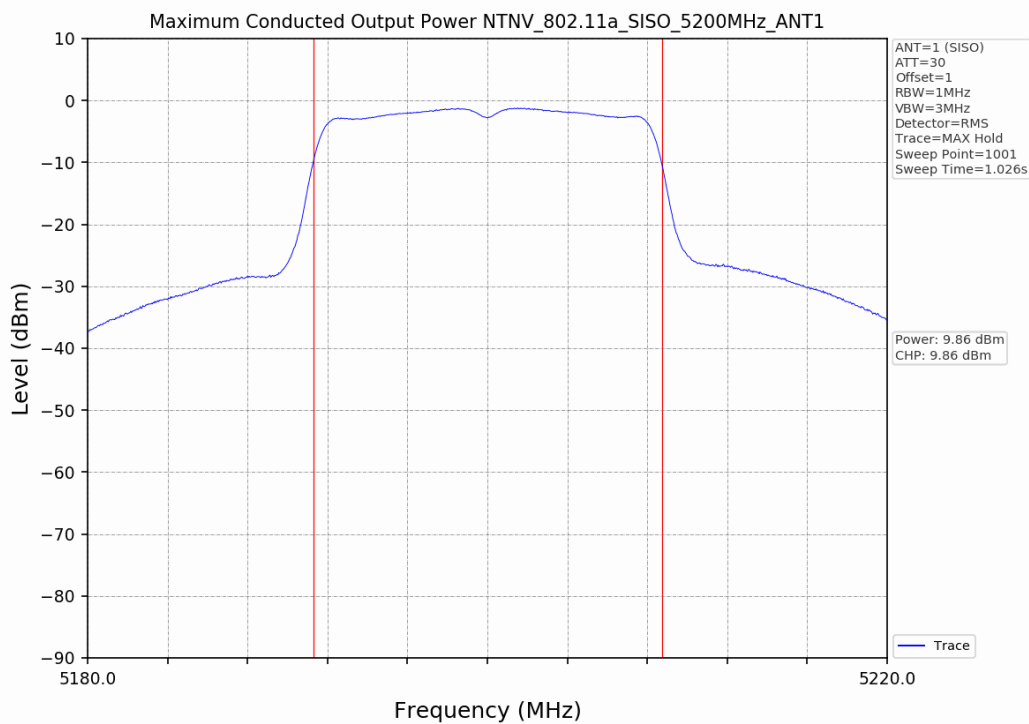
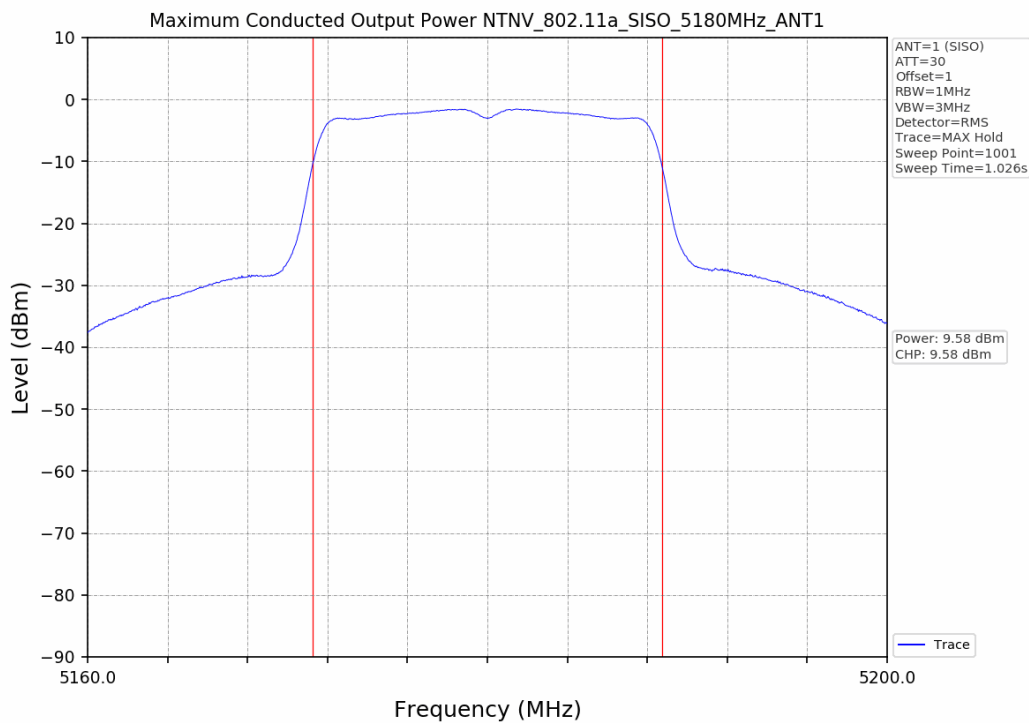


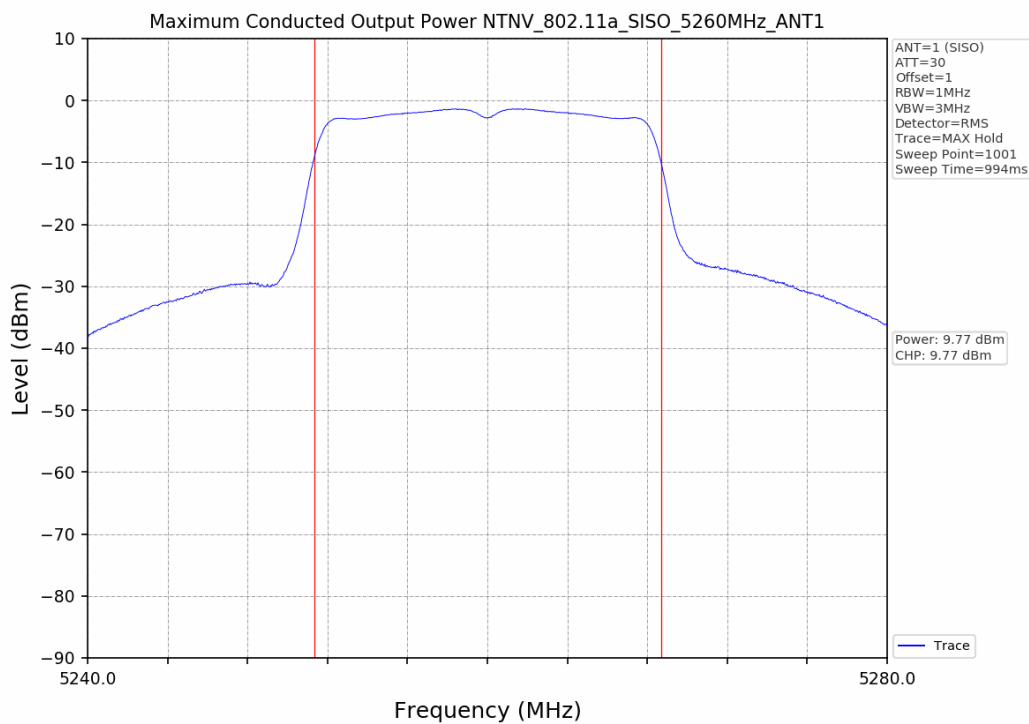
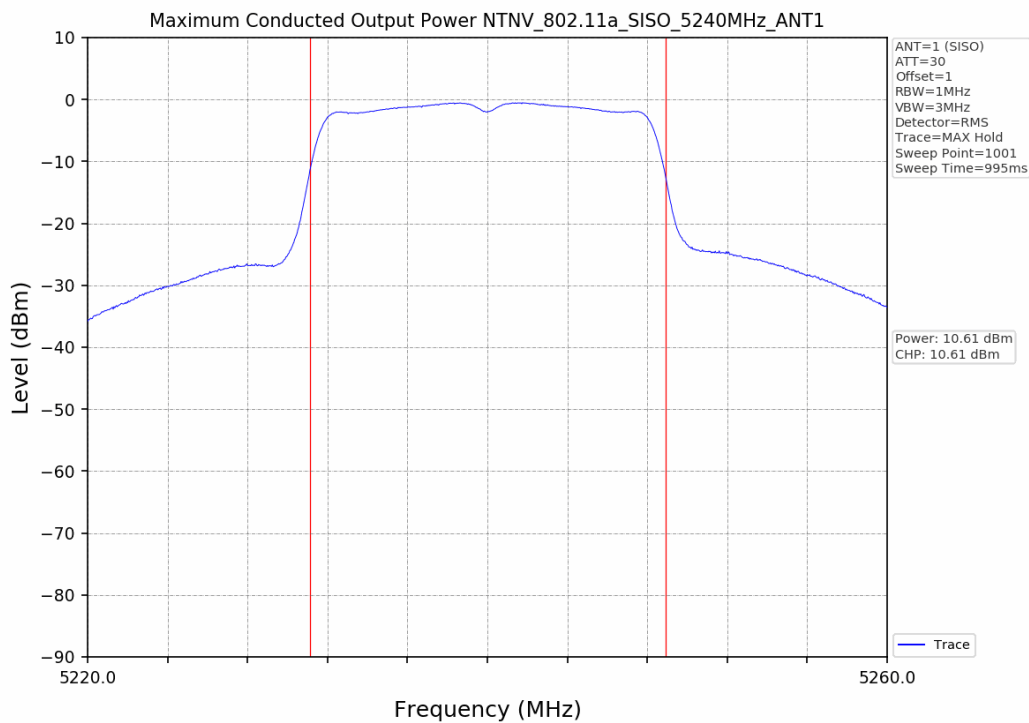
2. Maximum Conducted Output Power

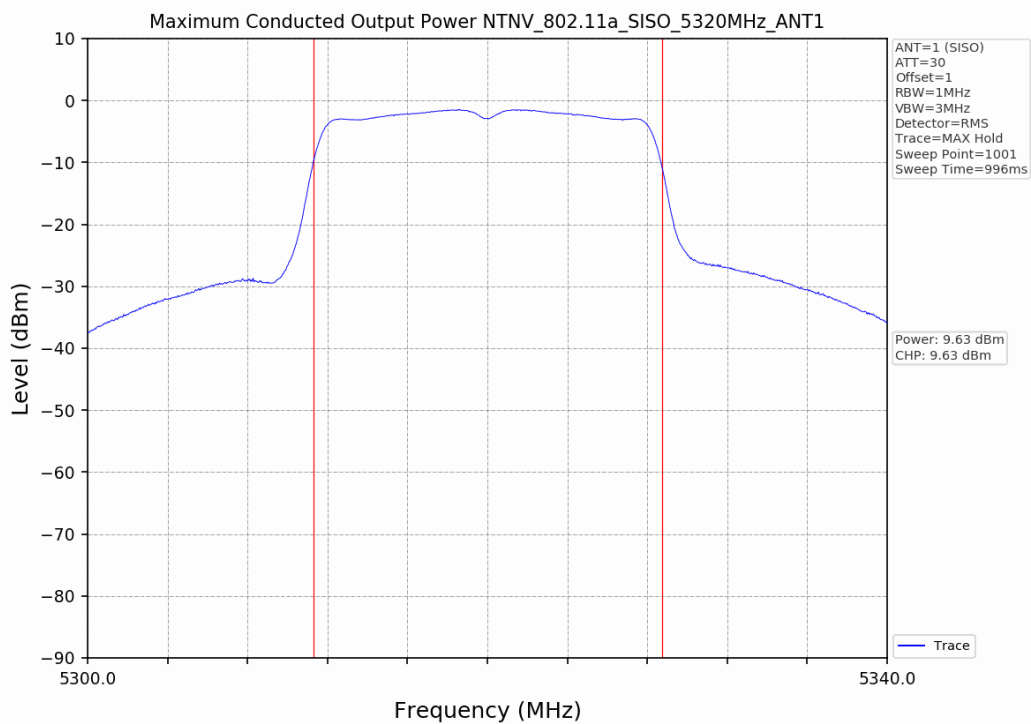
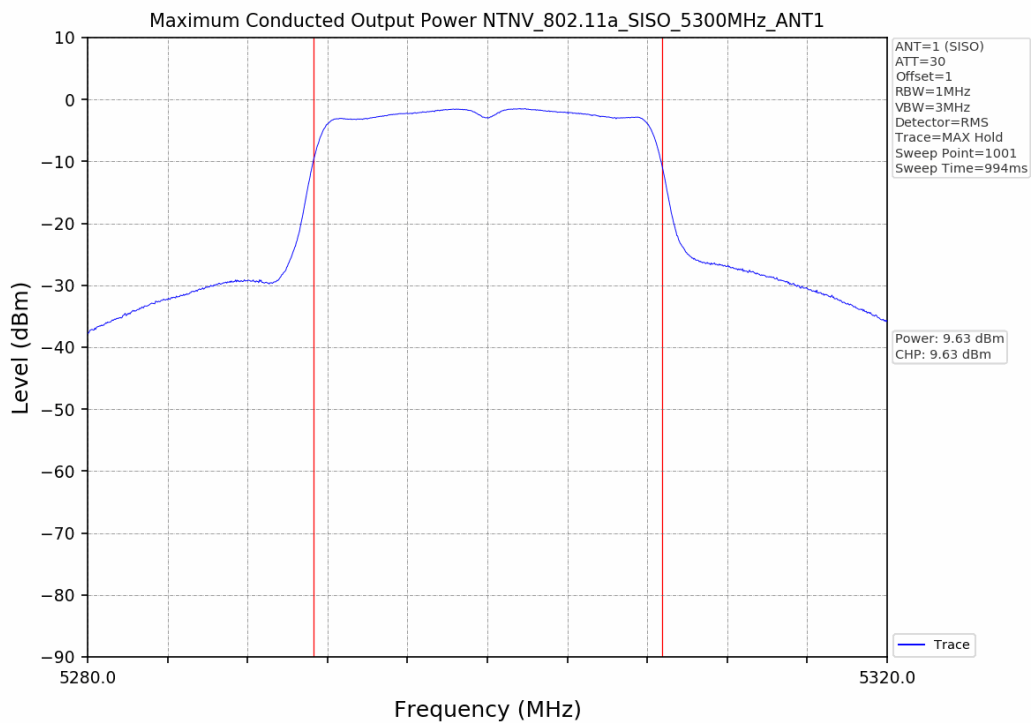
2.1 Test Result

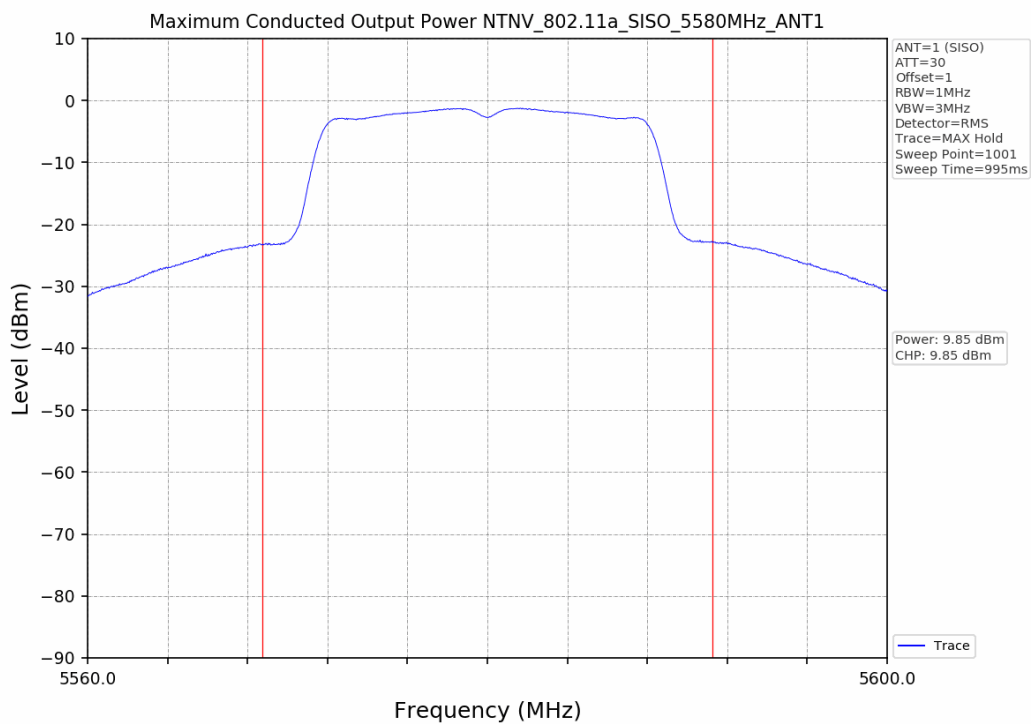
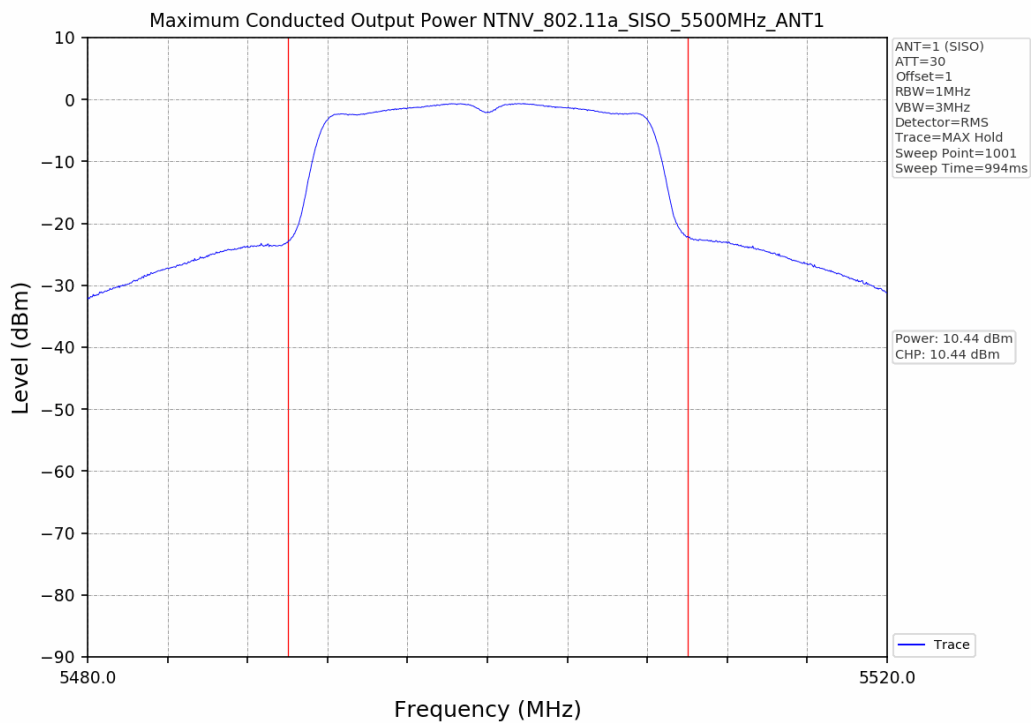
Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)	Limit (dBm)	Verdict
			Ant 1		
802.11a	5180	SISO	9.58	≤23.98	PASS
	5200	SISO	9.86	≤23.98	PASS
	5240	SISO	10.61	≤23.98	PASS
	5260	SISO	9.77	≤23.98	PASS
	5300	SISO	9.63	≤23.98	PASS
	5320	SISO	9.63	≤23.98	PASS
	5500	SISO	10.44	≤23.98	PASS
	5580	SISO	9.85	≤23.98	PASS
	5600	SISO	9.60	≤23.98	PASS
	5700	SISO	10.06	≤23.98	PASS
	5745	SISO	10.65	≤30.00	PASS
	5785	SISO	11.23	≤30.00	PASS
	5825	SISO	10.98	≤30.00	PASS
802.11n(HT20)	5180	SISO	10.01	≤23.98	PASS
	5200	SISO	10.04	≤23.98	PASS
	5240	SISO	10.67	≤23.98	PASS
	5260	SISO	9.82	≤23.98	PASS
	5300	SISO	9.74	≤23.98	PASS
	5320	SISO	9.82	≤23.98	PASS
	5500	SISO	10.49	≤23.98	PASS
	5580	SISO	9.94	≤23.98	PASS
	5600	SISO	9.68	≤23.98	PASS
	5700	SISO	10.20	≤23.98	PASS
	5745	SISO	11.06	≤30.00	PASS
	5785	SISO	11.06	≤30.00	PASS
	5825	SISO	10.66	≤30.00	PASS

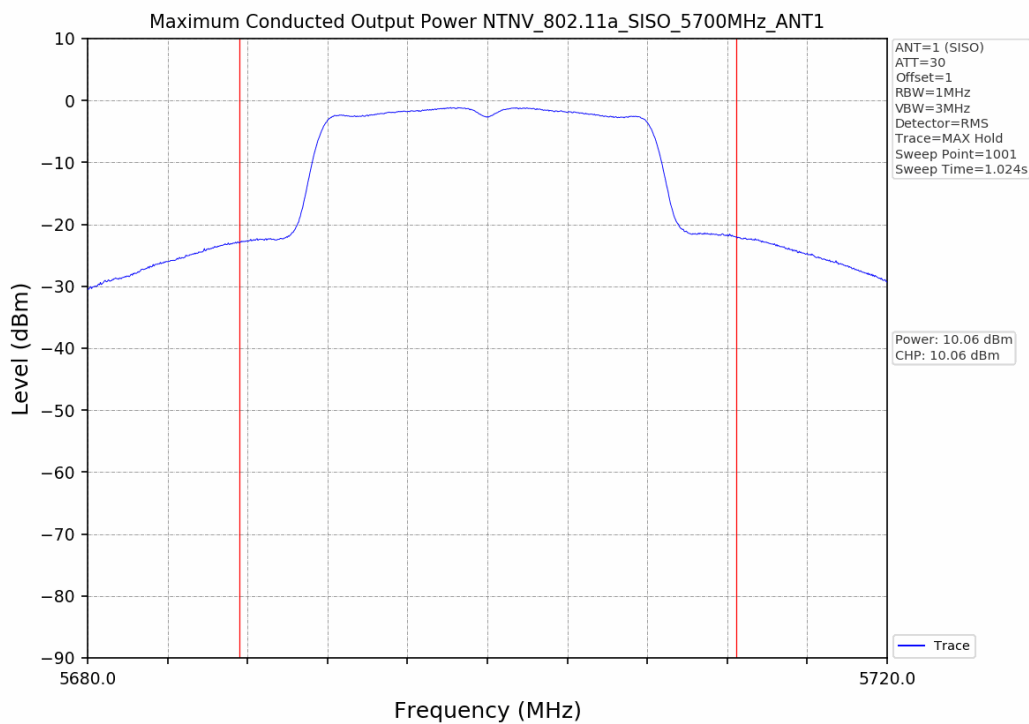
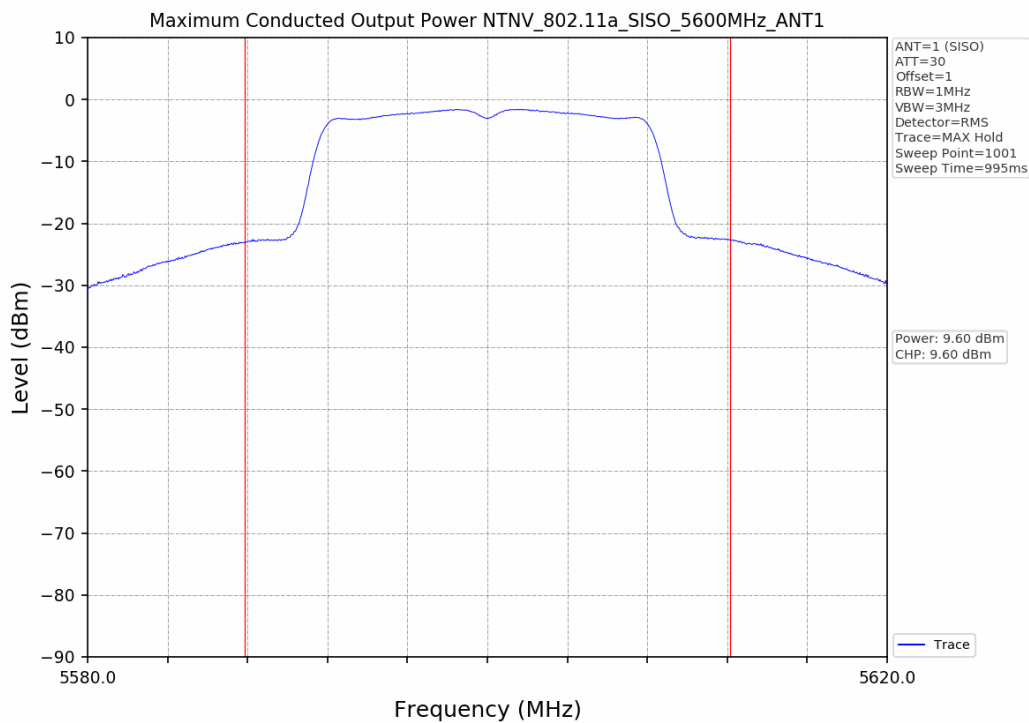
2.2 Test Graph

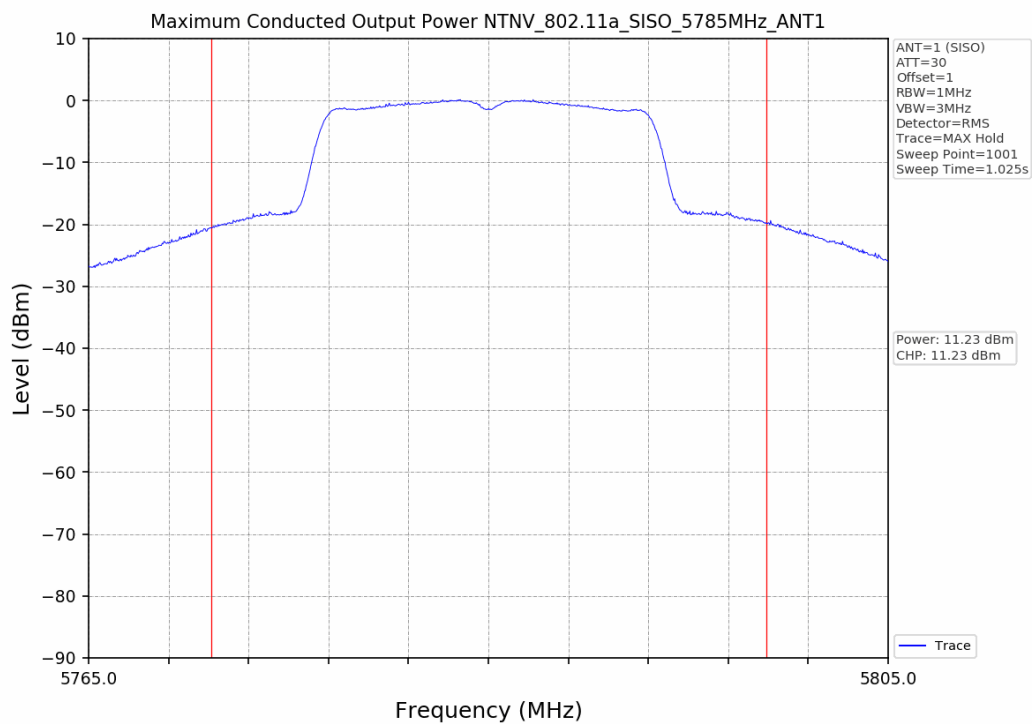
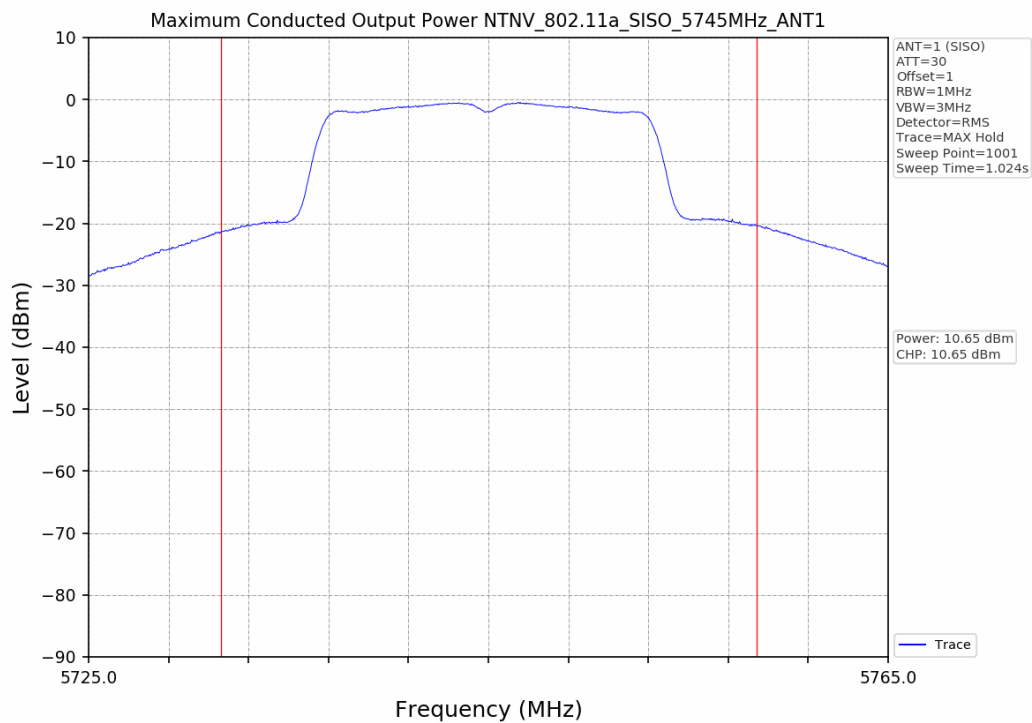


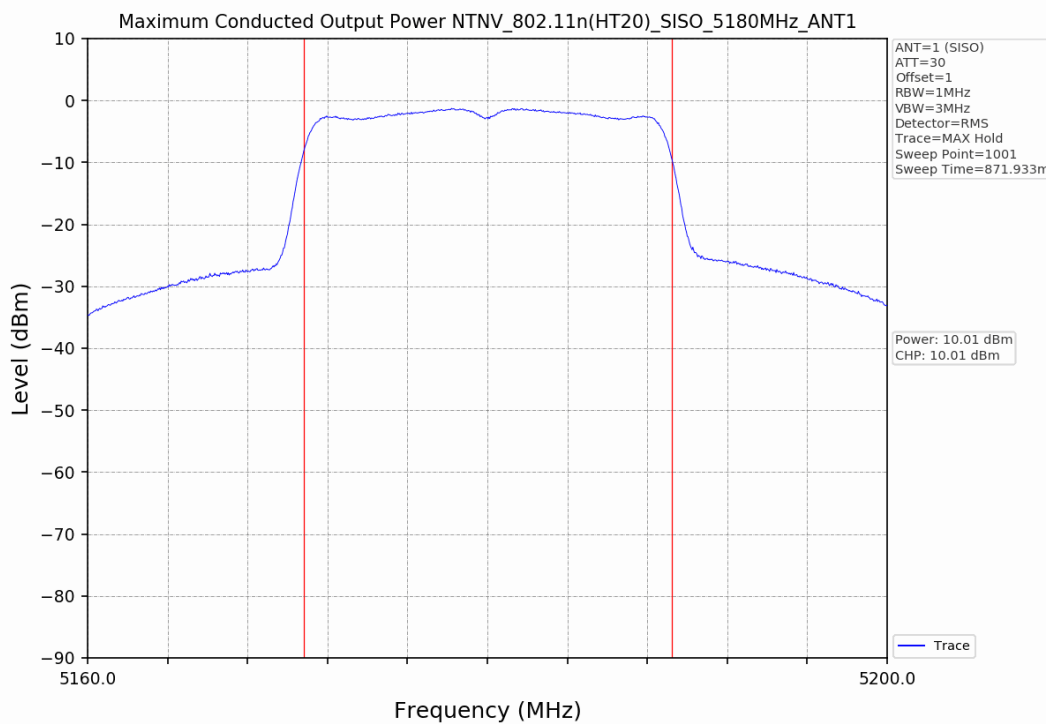
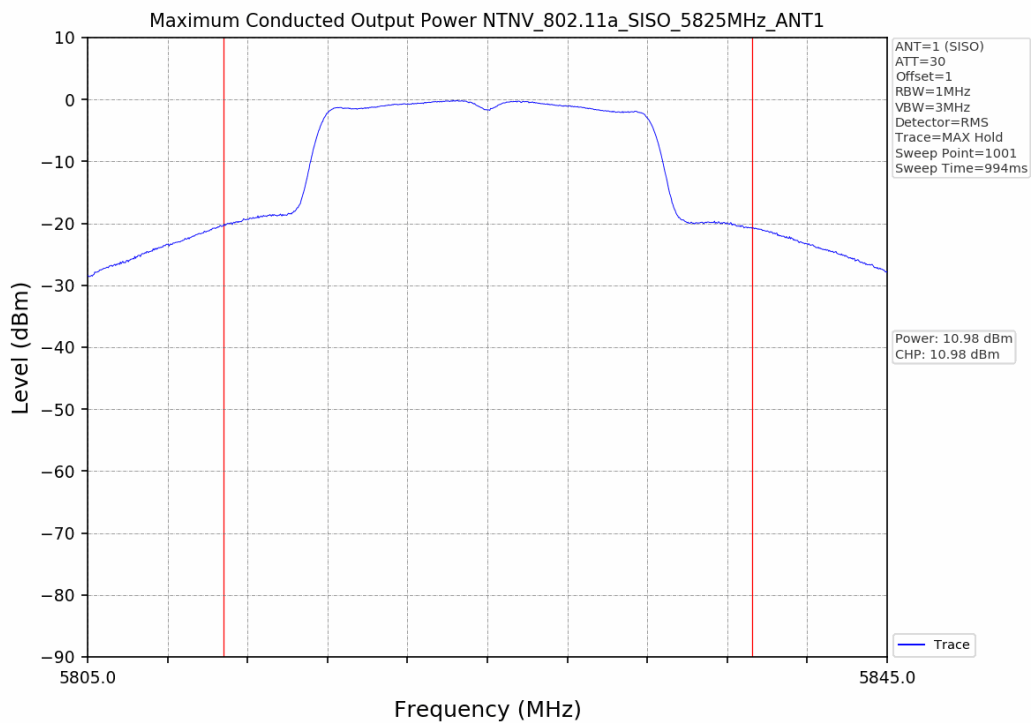


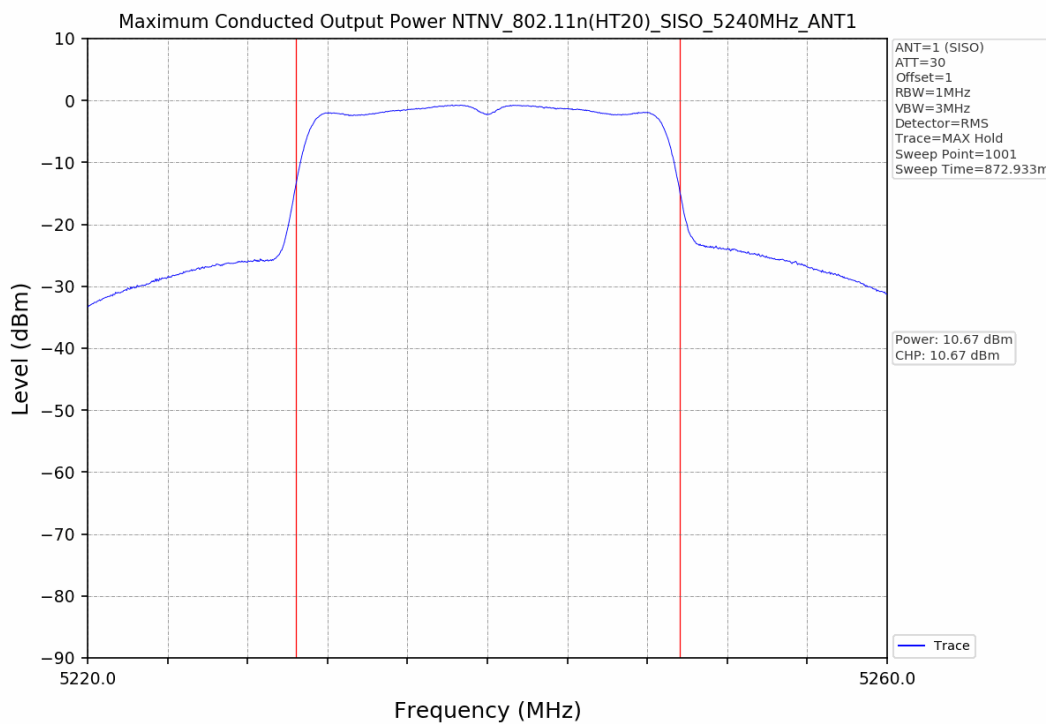
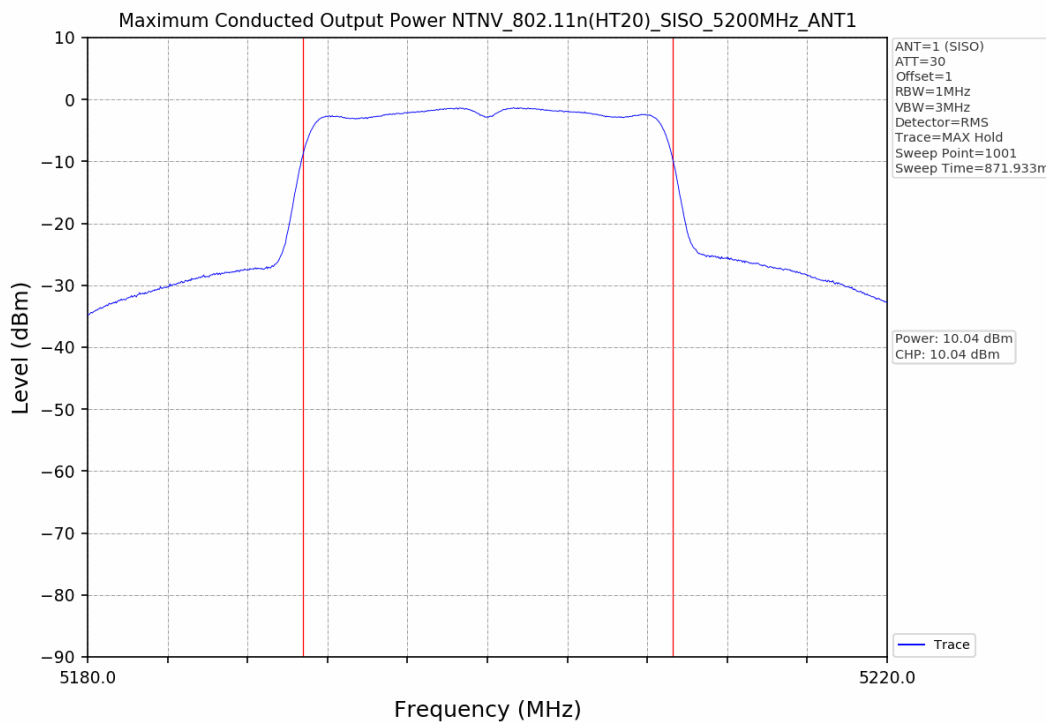


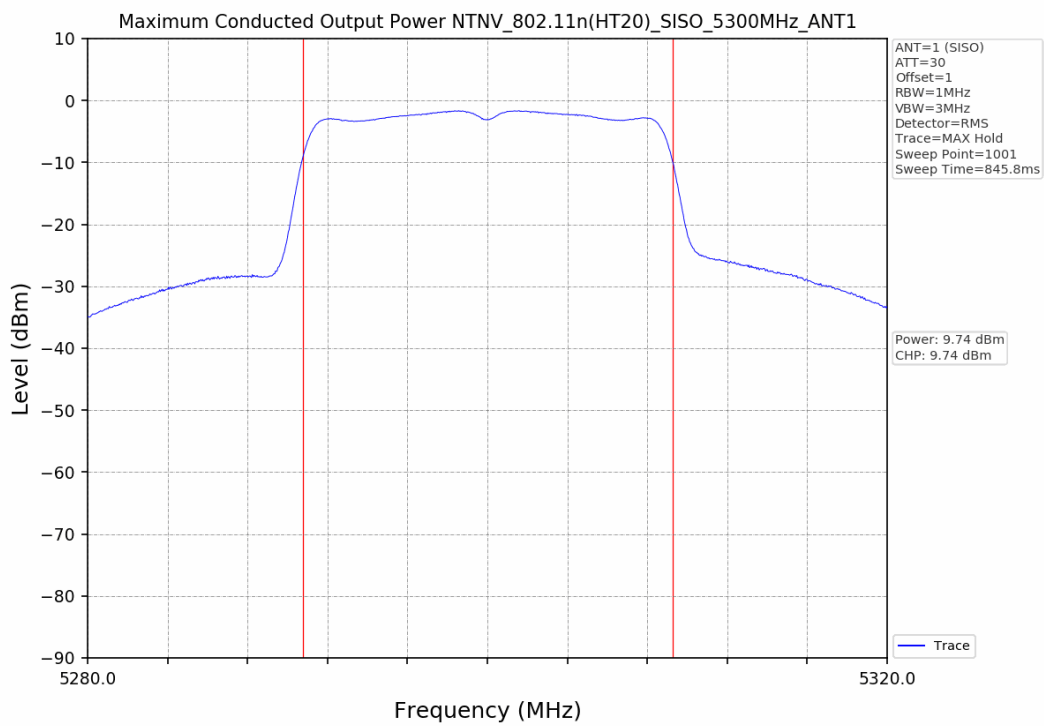
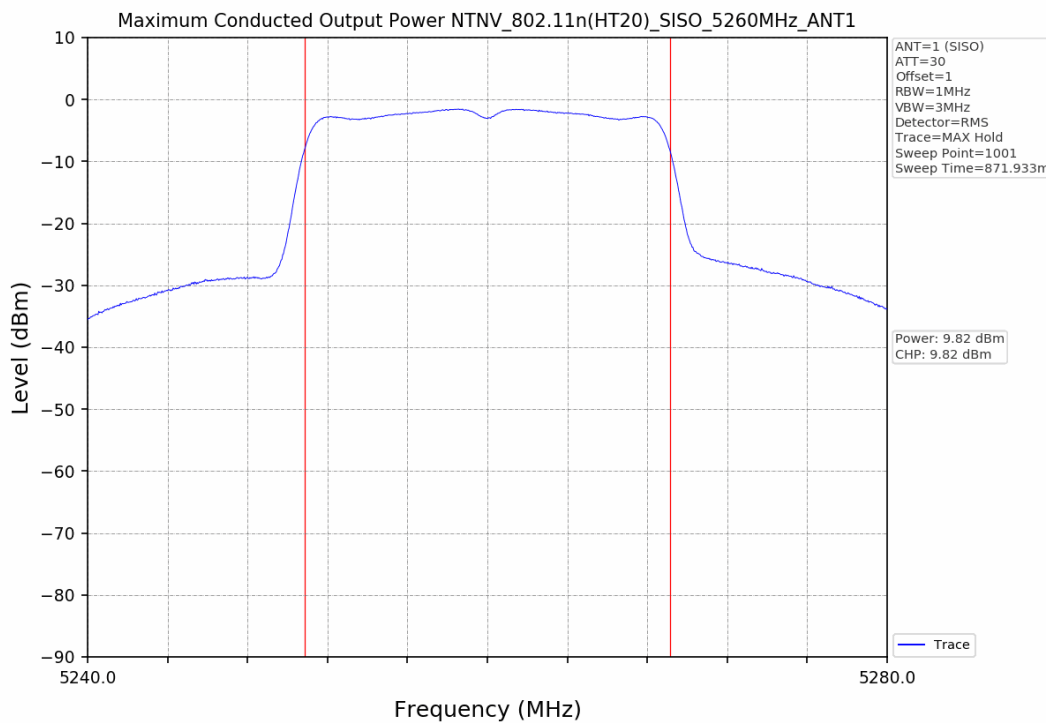


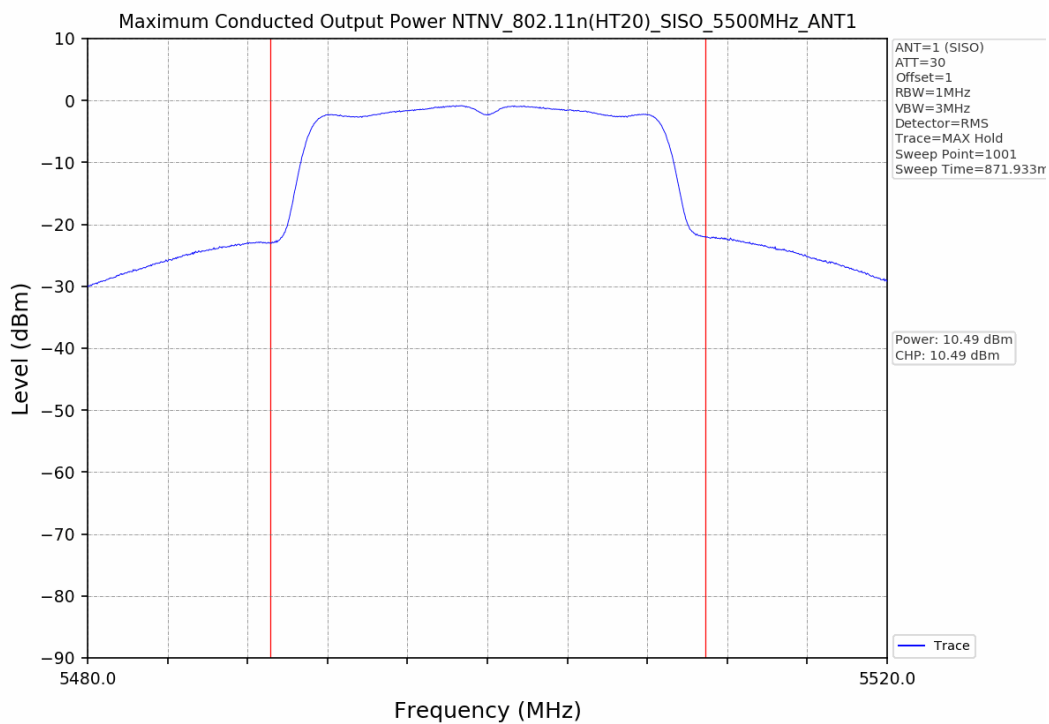
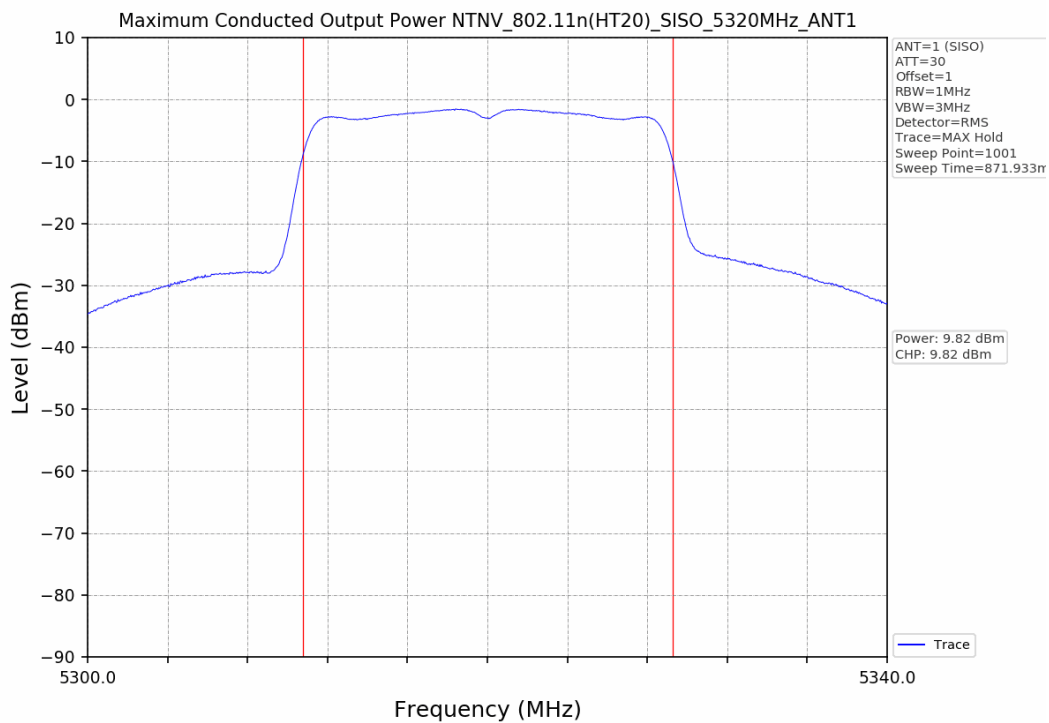


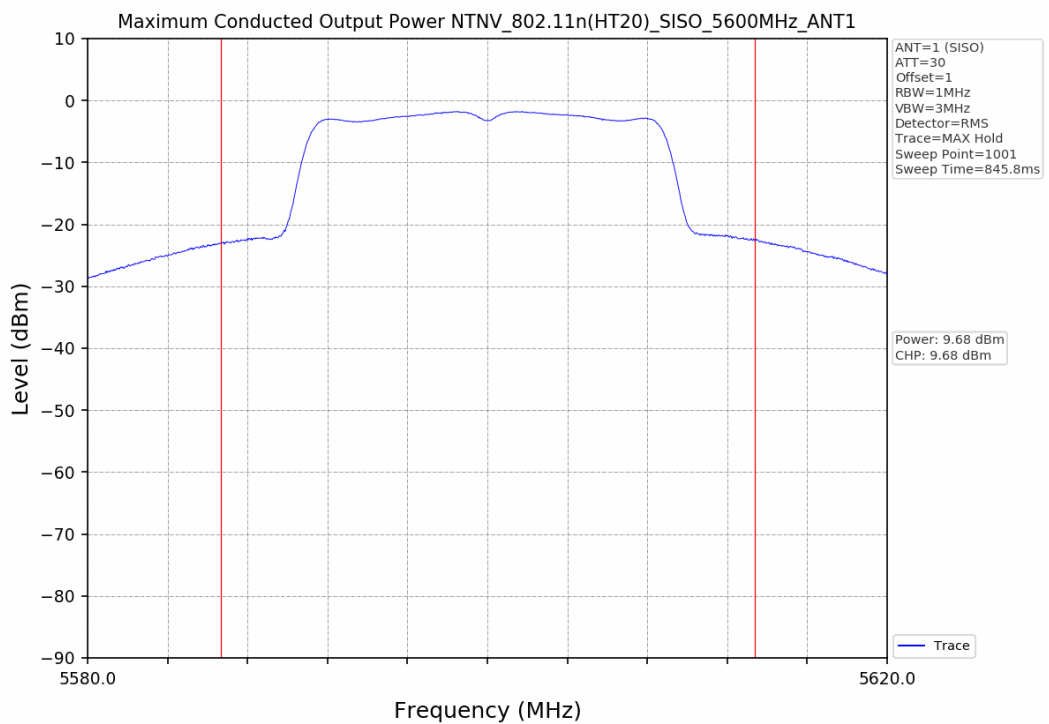
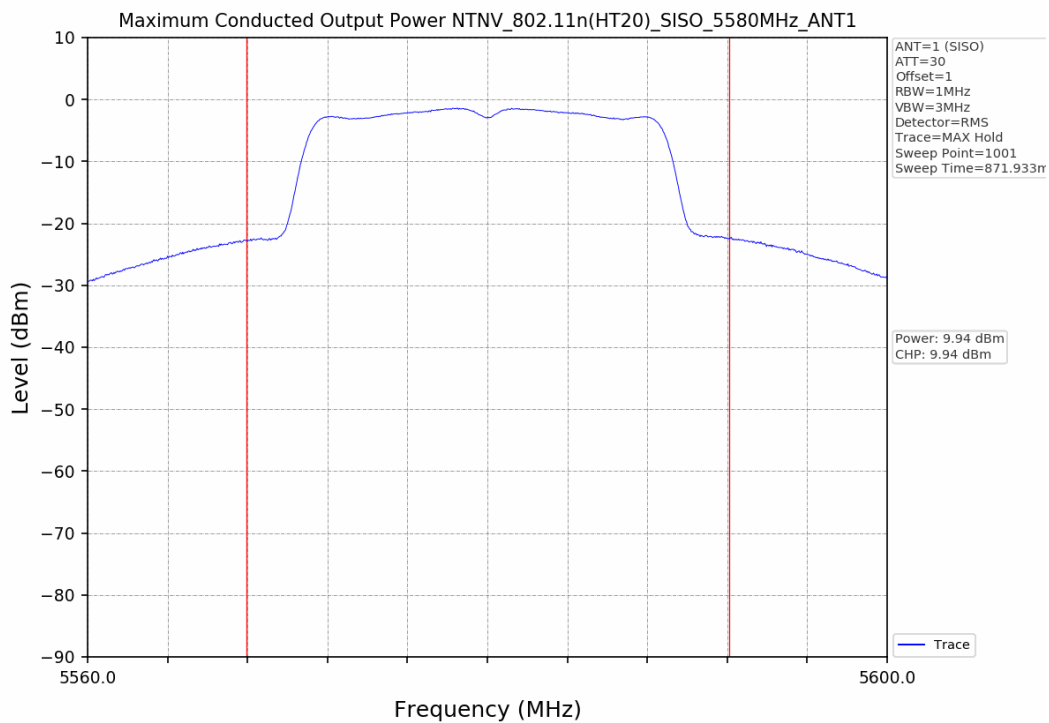


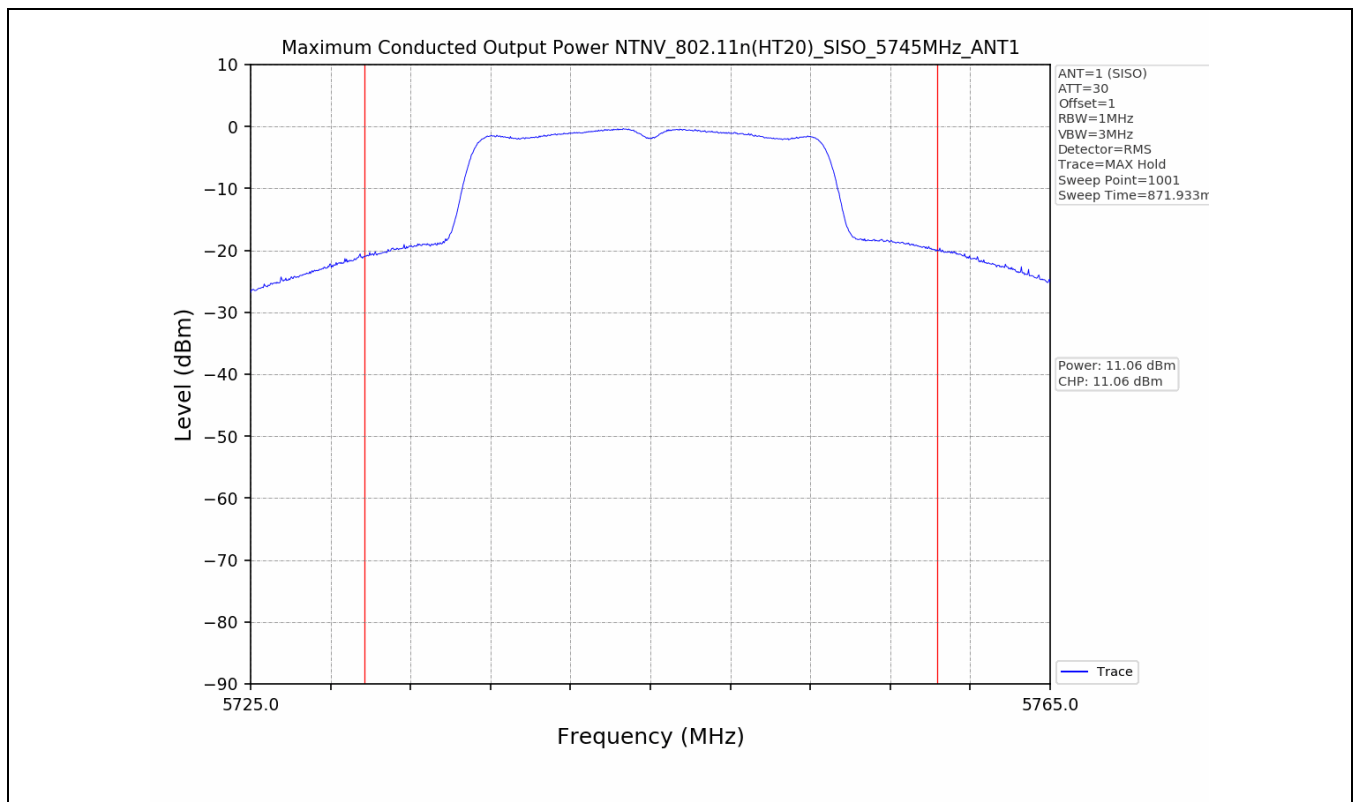
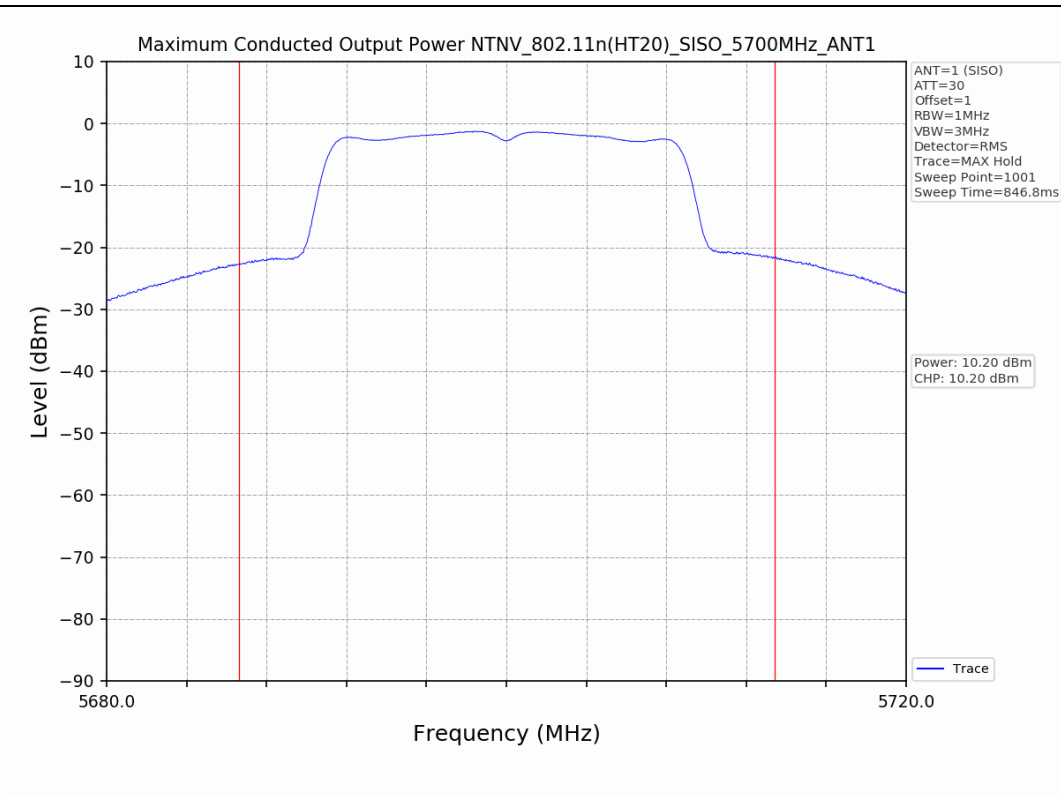


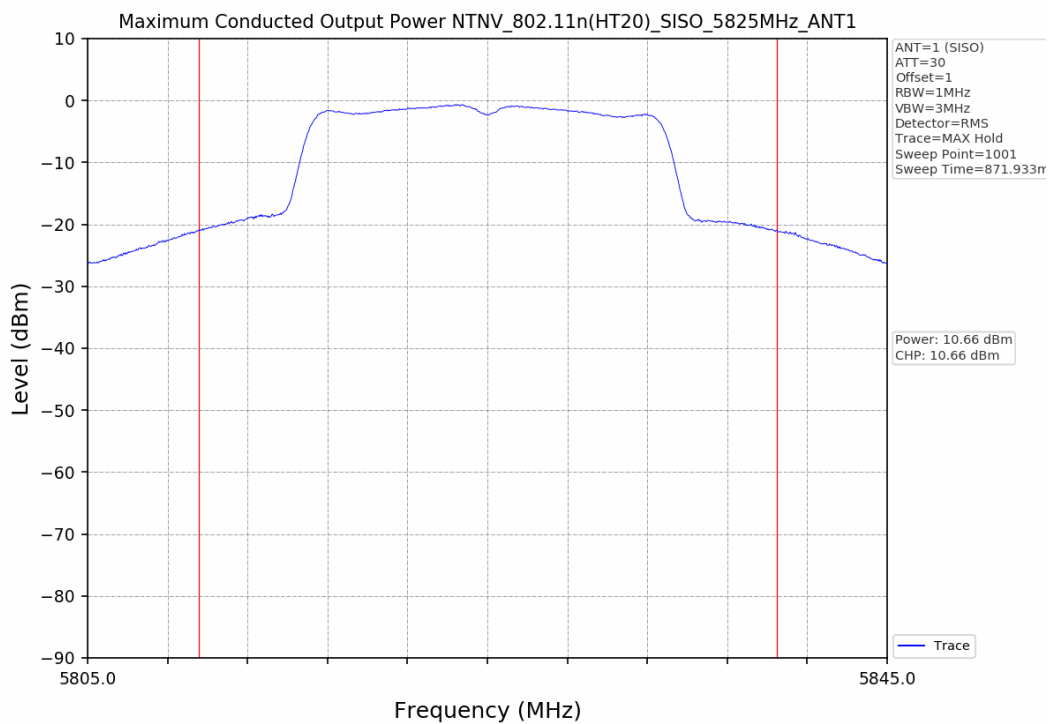
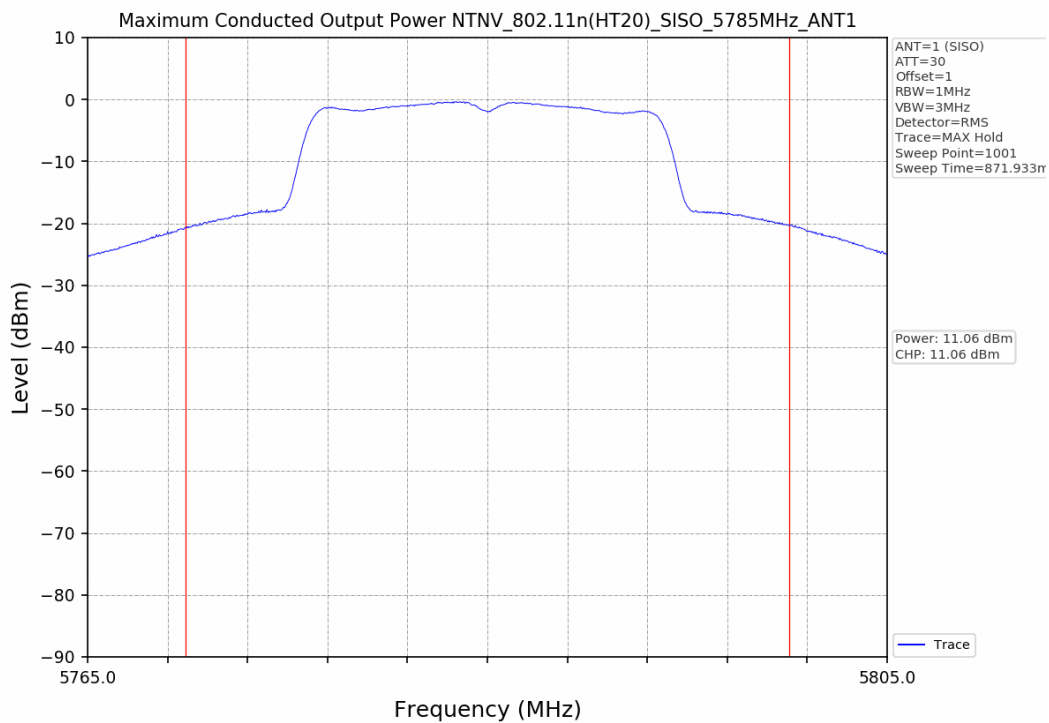












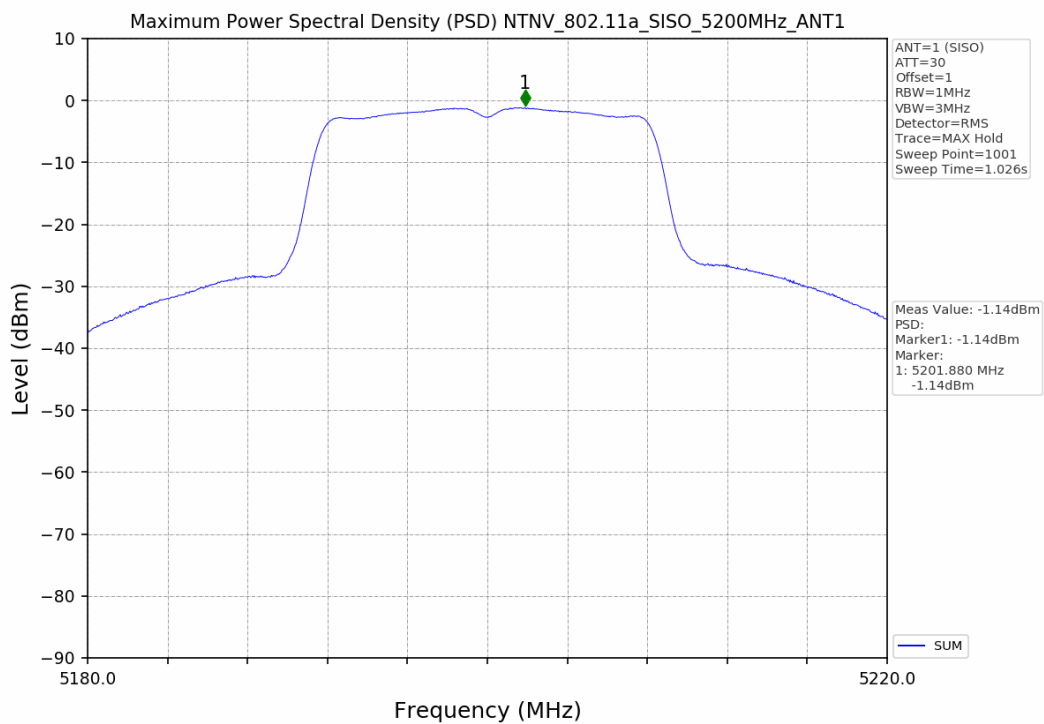
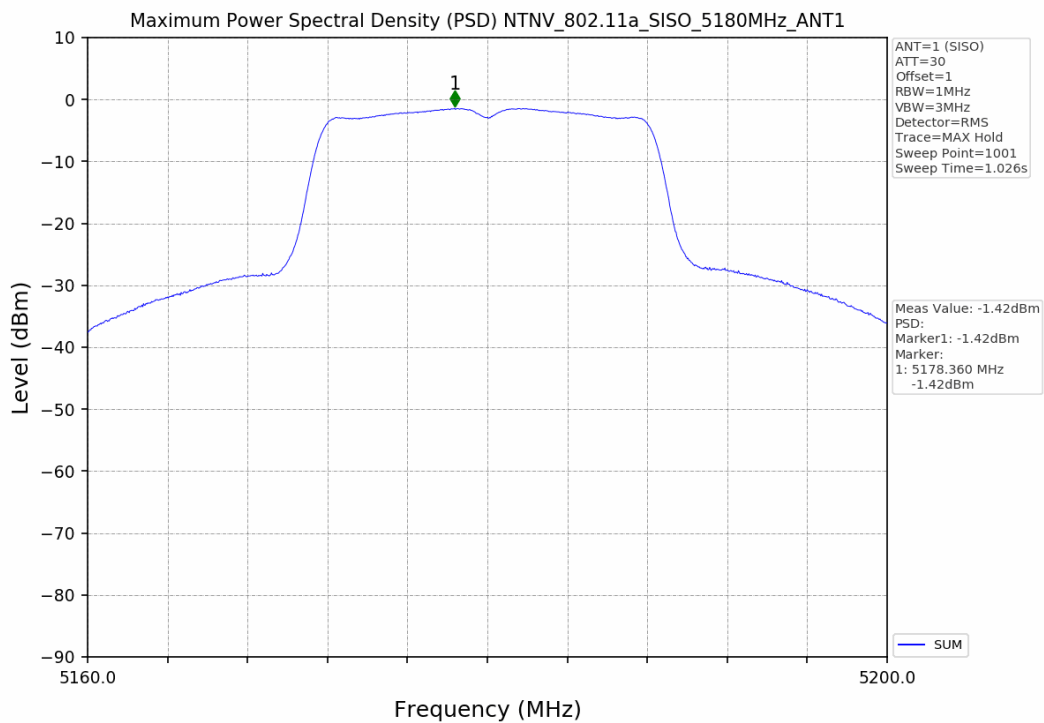
3. Maximum Power Spectral Density (PSD)

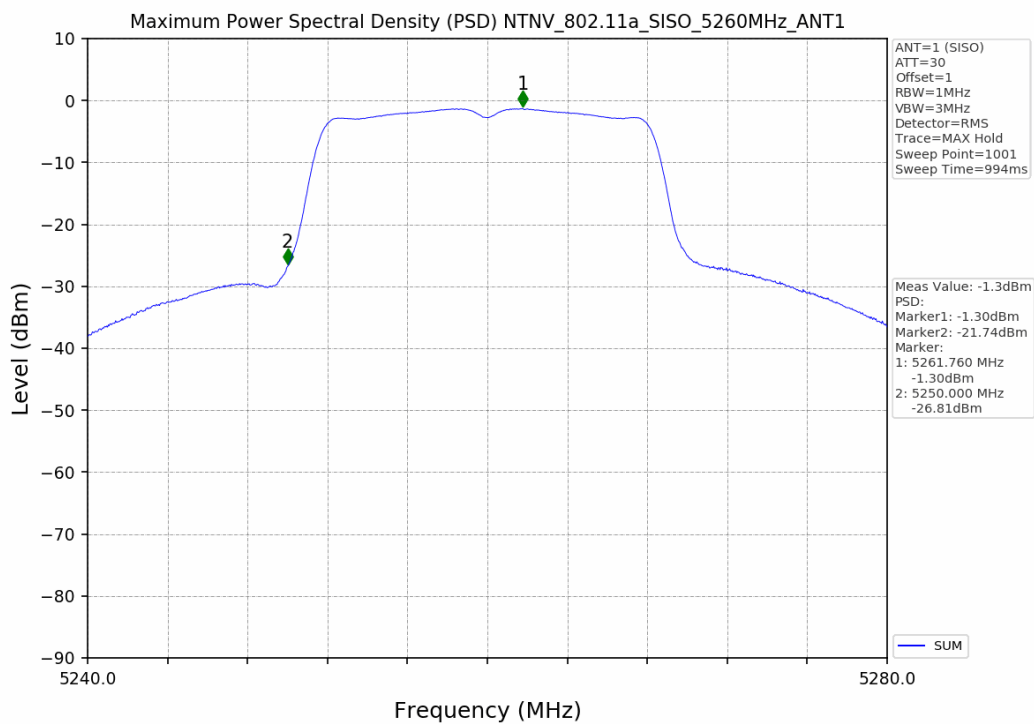
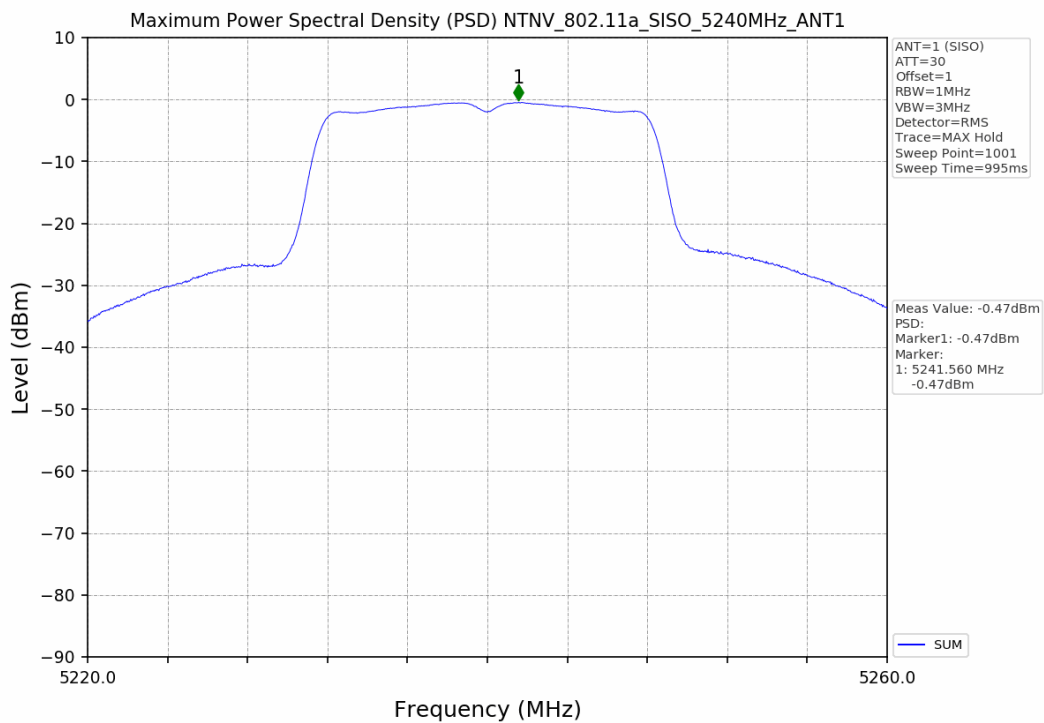
3.1 Test Result

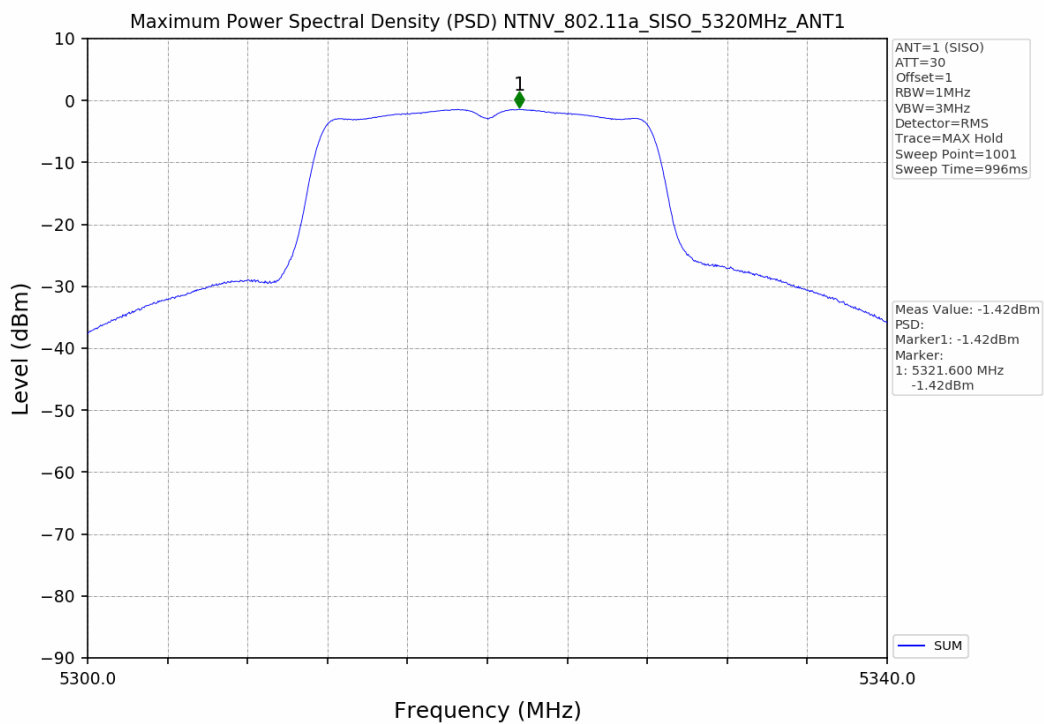
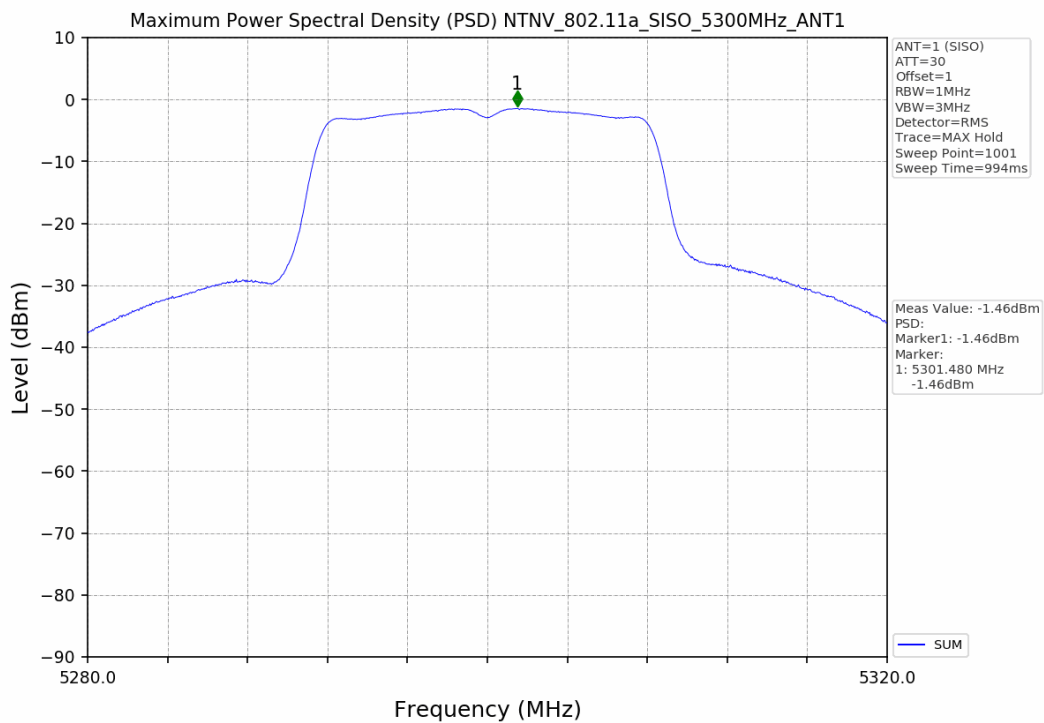
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/MHz)	Limits (dBm/MHz)	Verdict
			Ant 1		
802.11a	5180	SISO	-1.42	≤11	PASS
	5200	SISO	-1.14	≤11	PASS
	5240	SISO	-0.47	≤11	PASS
	5260	SISO	-1.30	≤11	PASS
	5300	SISO	-1.46	≤11	PASS
	5320	SISO	-1.42	≤11	PASS
	5500	SISO	-0.62	≤11	PASS
	5580	SISO	-1.22	≤11	PASS
	5600	SISO	-1.61	≤11	PASS
	5700	SISO	-1.13	≤11	PASS
802.11n(HT20)	5180	SISO	-1.46	≤11	PASS
	5200	SISO	-1.42	≤11	PASS
	5240	SISO	-0.74	≤11	PASS
	5260	SISO	-1.59	≤11	PASS
	5300	SISO	-1.73	≤11	PASS
	5320	SISO	-1.63	≤11	PASS
	5500	SISO	-0.91	≤11	PASS
	5580	SISO	-1.47	≤11	PASS
	5600	SISO	-1.85	≤11	PASS
	5700	SISO	-1.27	≤11	PASS

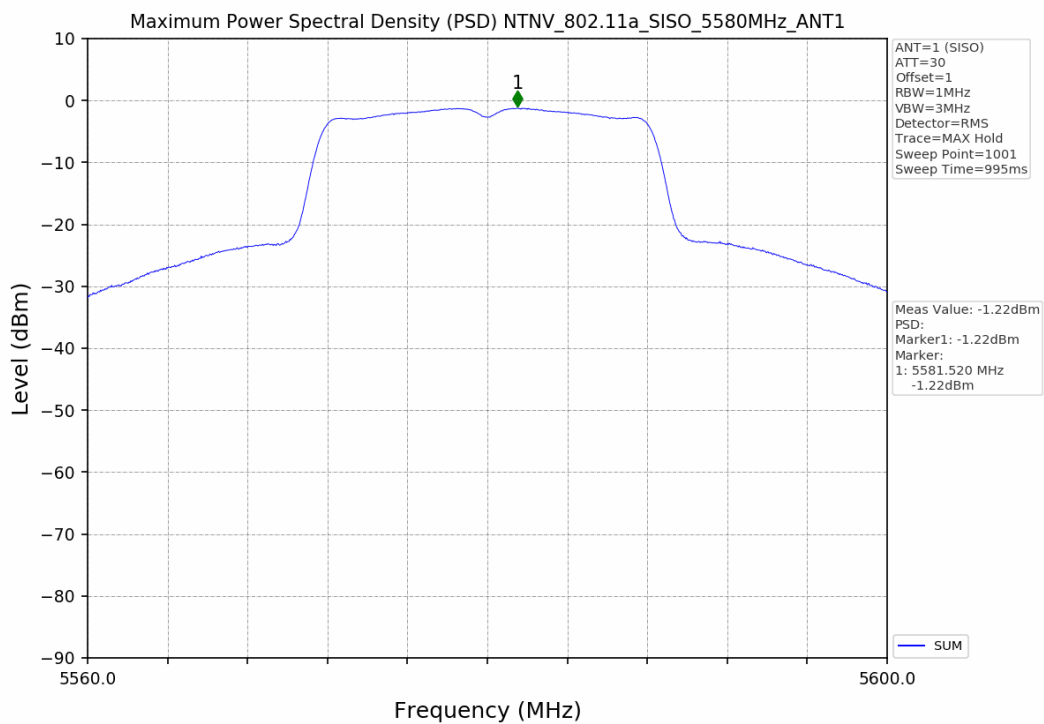
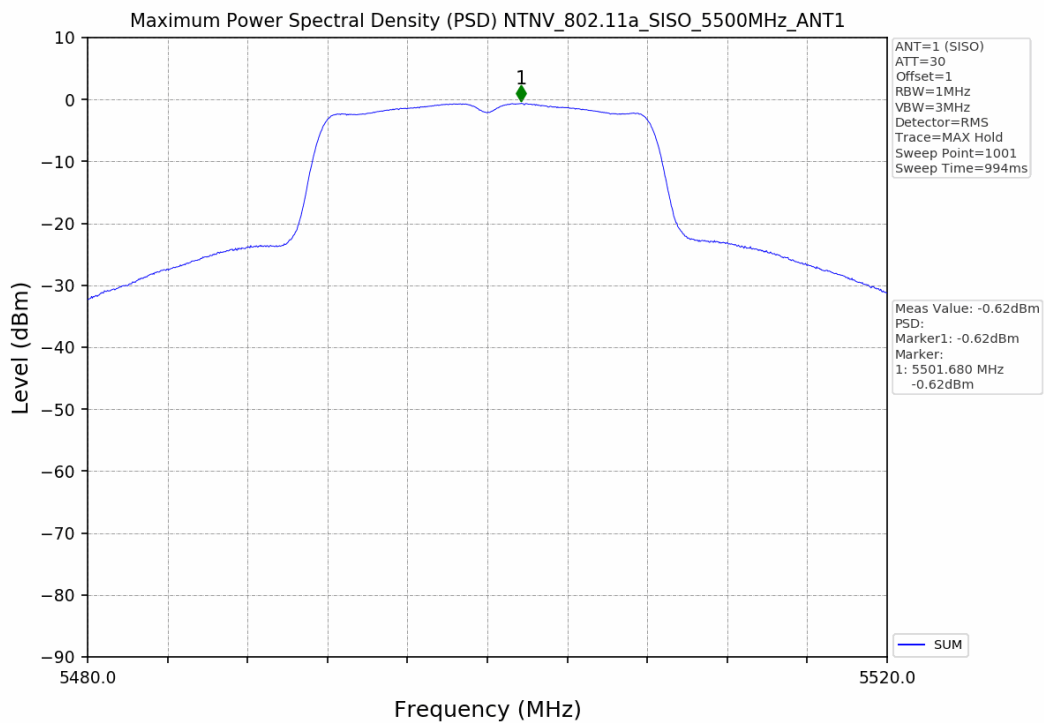
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
			Ant 1		
802.11a	5745	SISO	-3.33	≤30	PASS
	5785	SISO	-2.80	≤30	PASS
	5825	SISO	-3.02	≤30	PASS
802.11n(HT20)	5745	SISO	-3.07	≤30	PASS
	5785	SISO	-2.93	≤30	PASS
	5825	SISO	-3.40	≤30	PASS

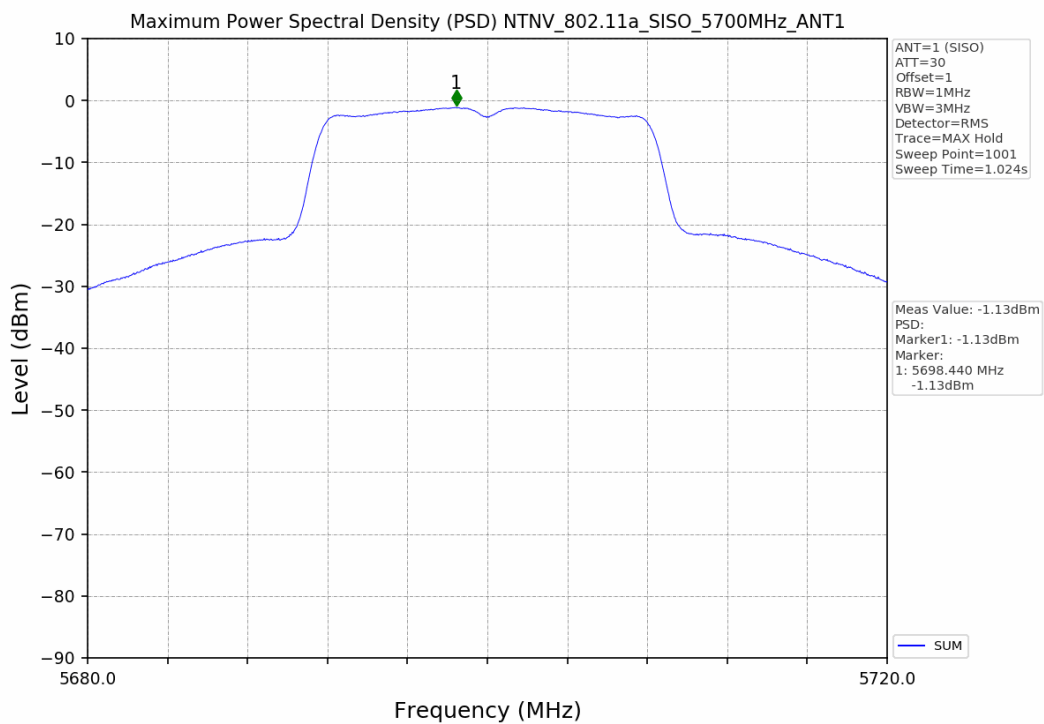
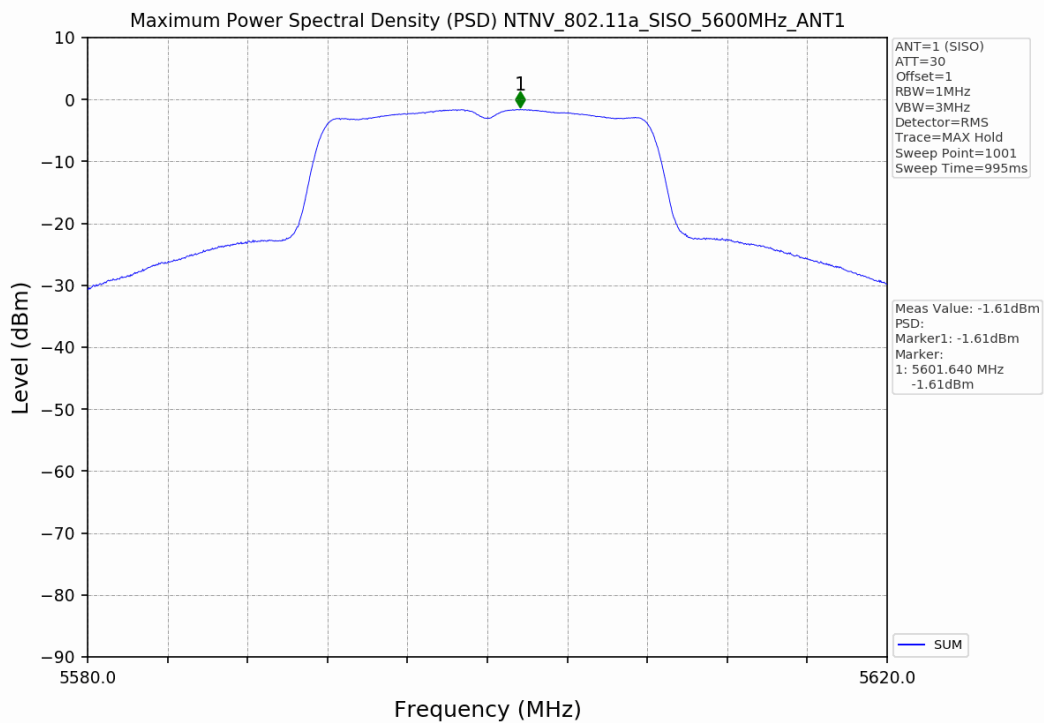
3.2 Test Graph

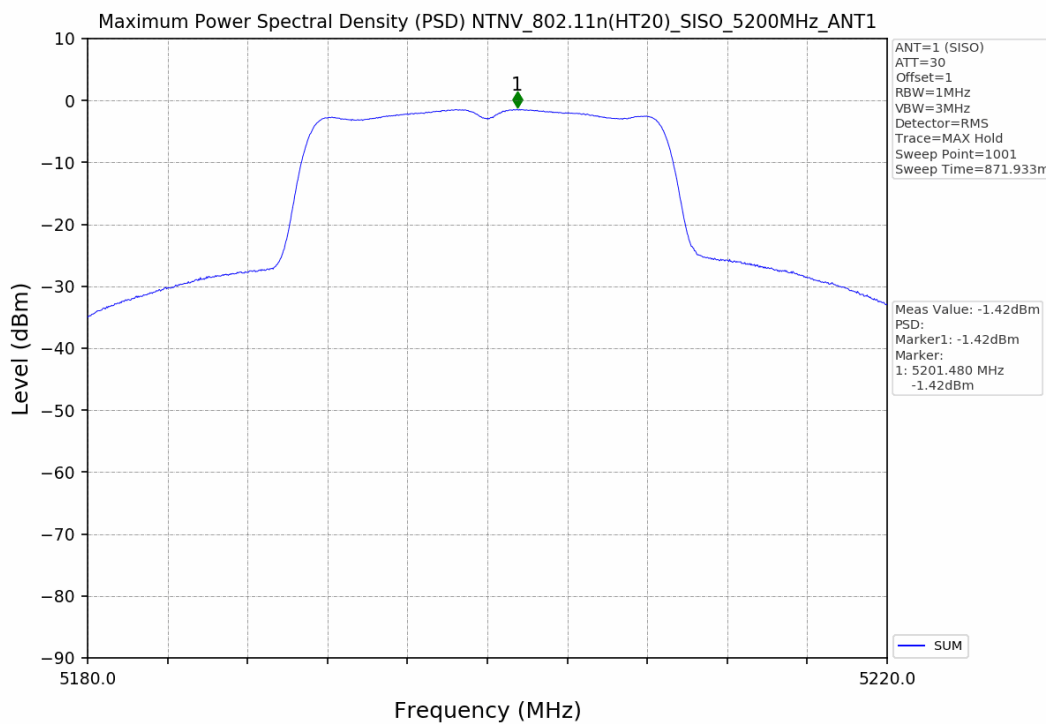
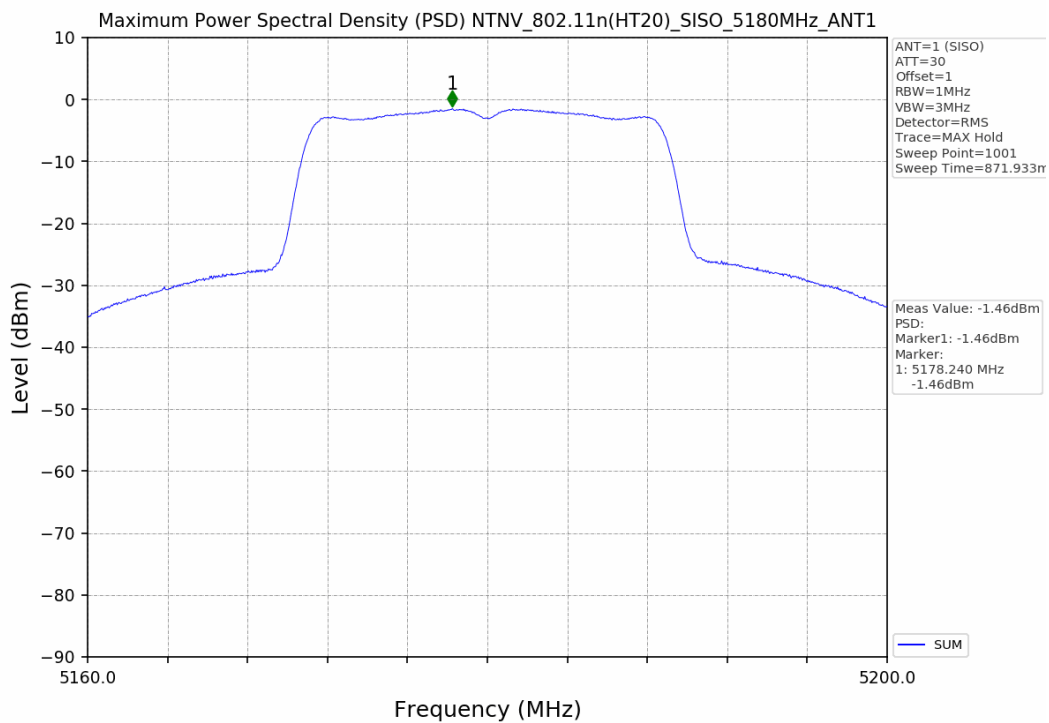


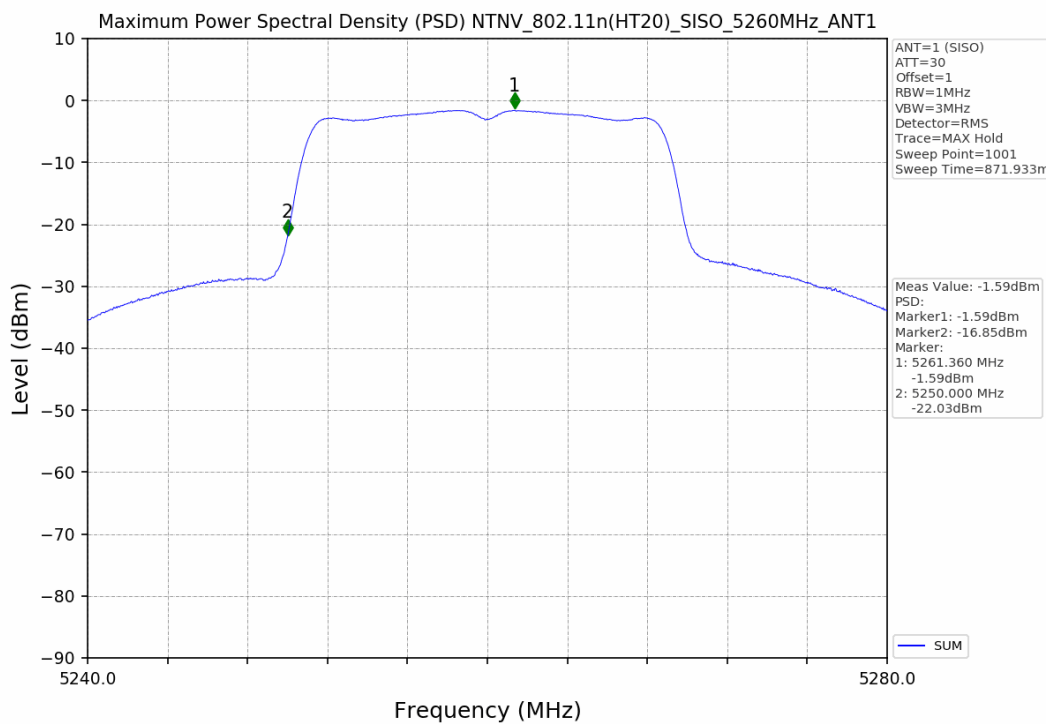
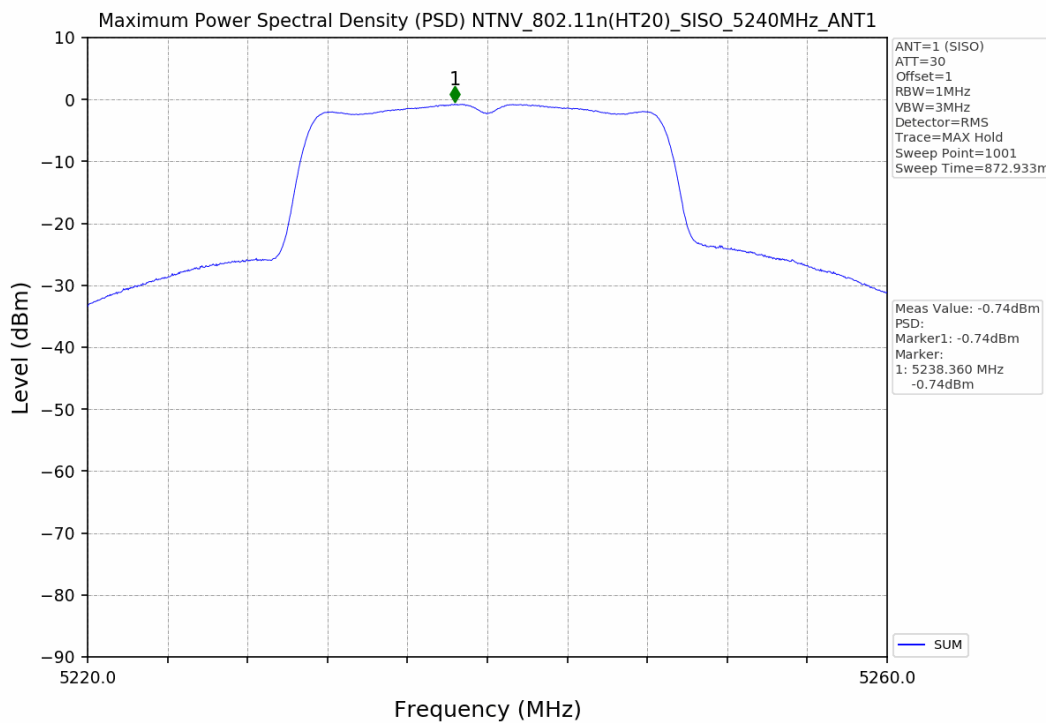


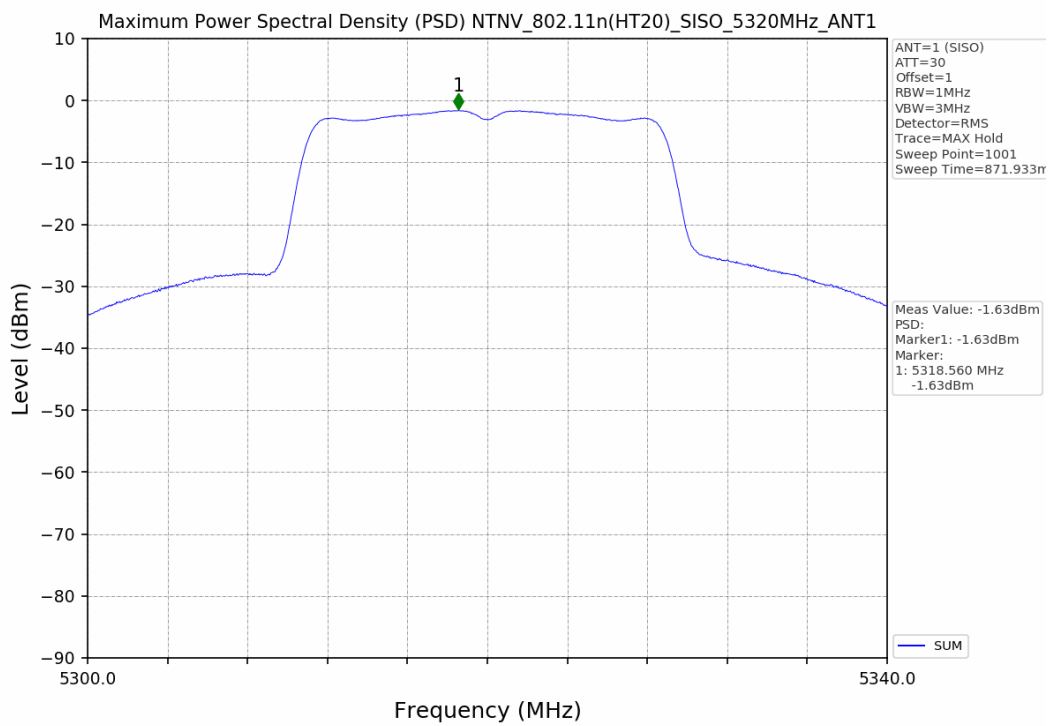
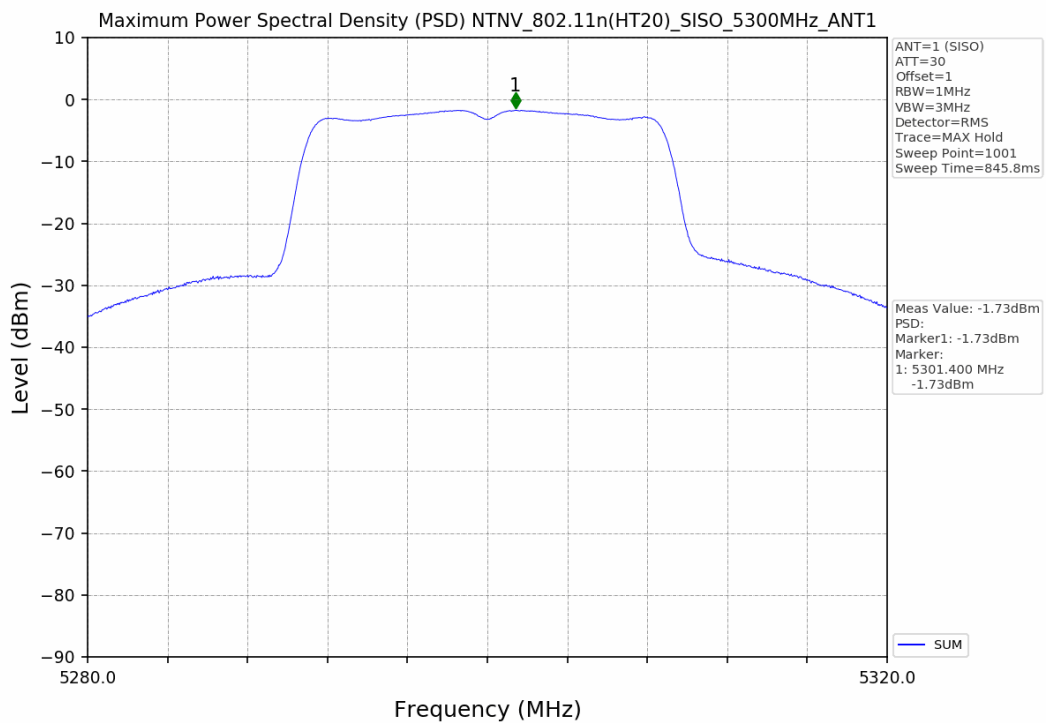


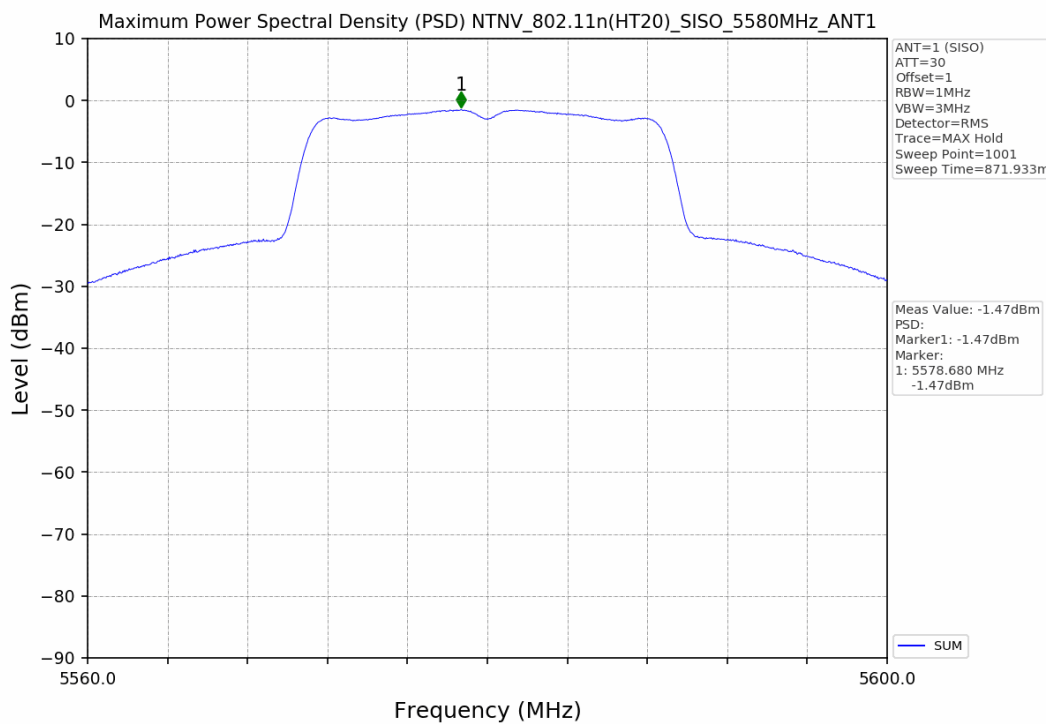
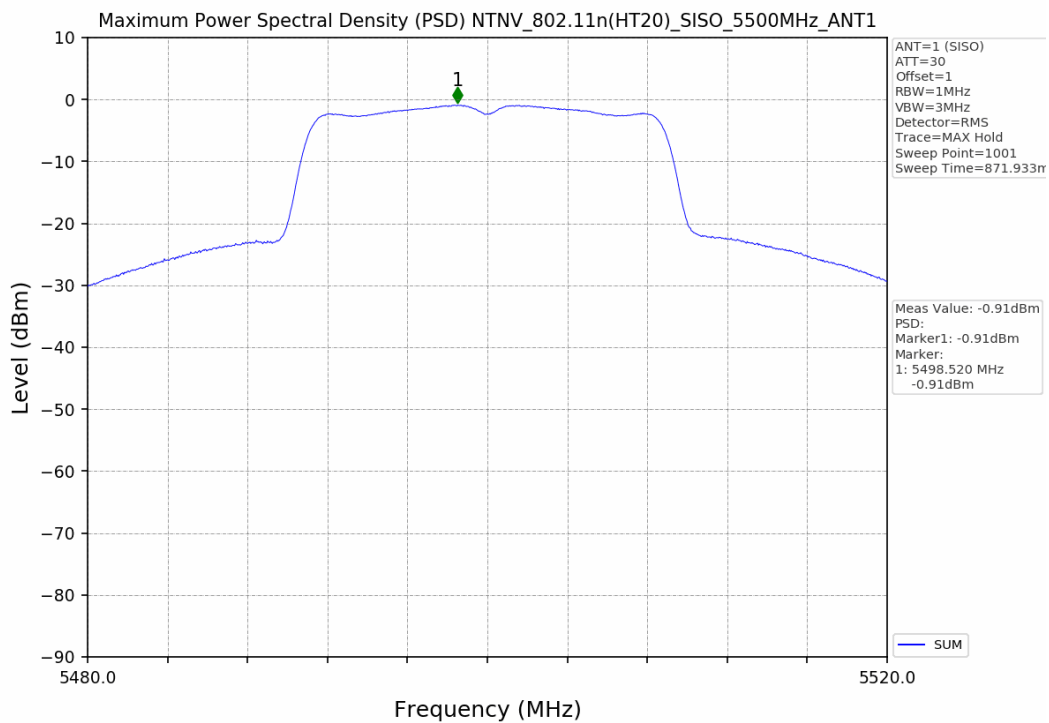


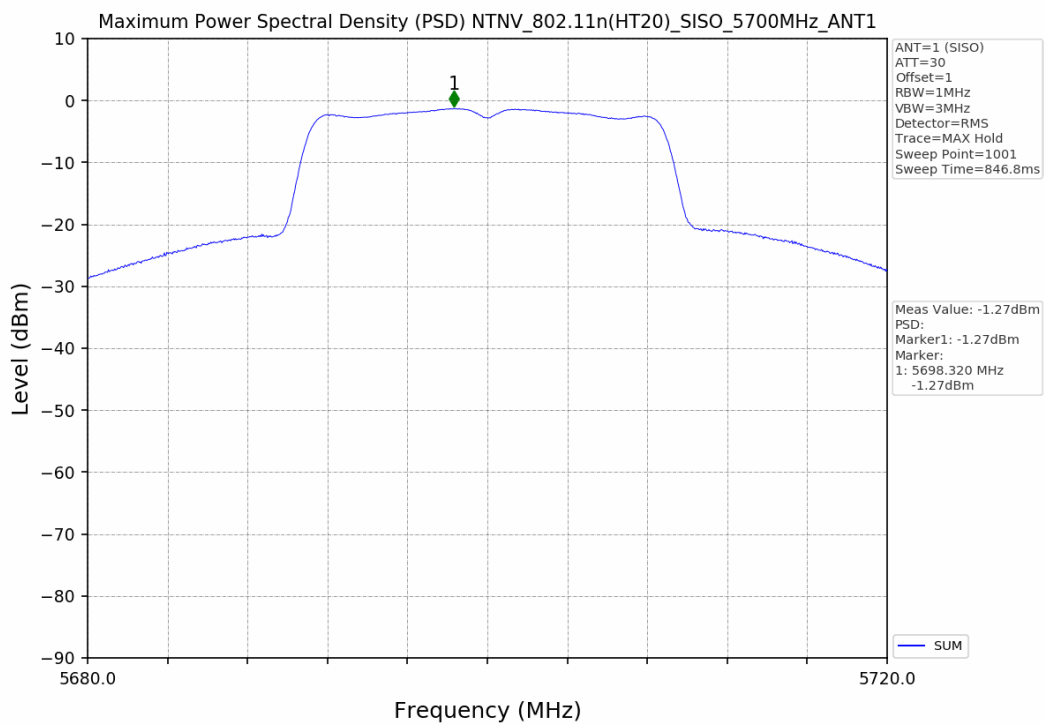
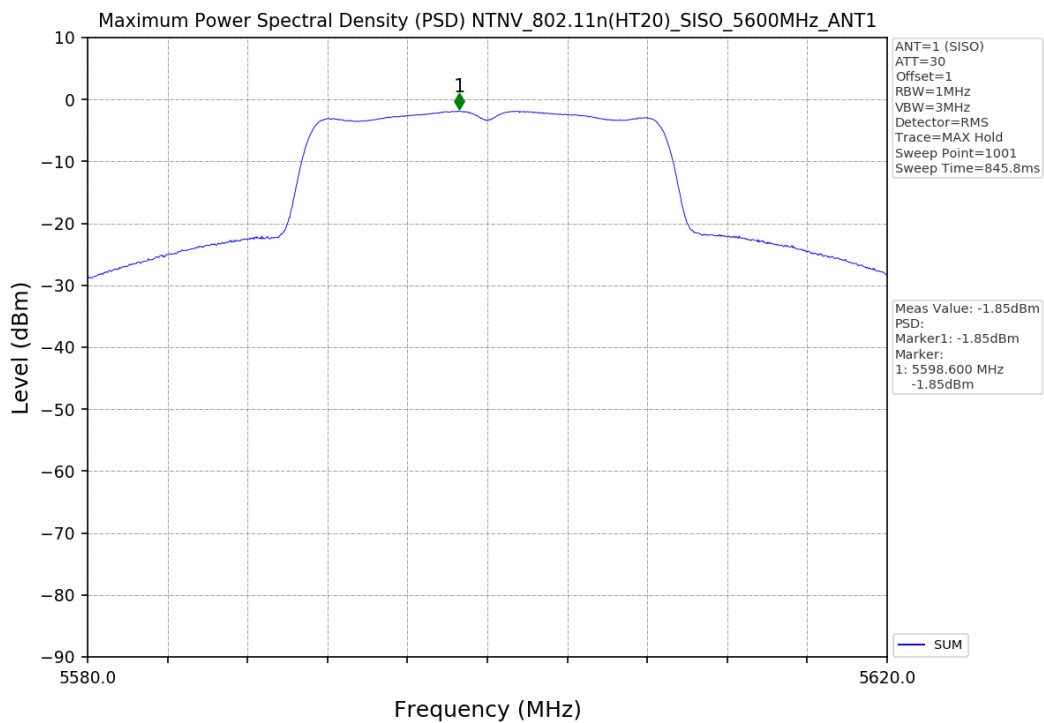


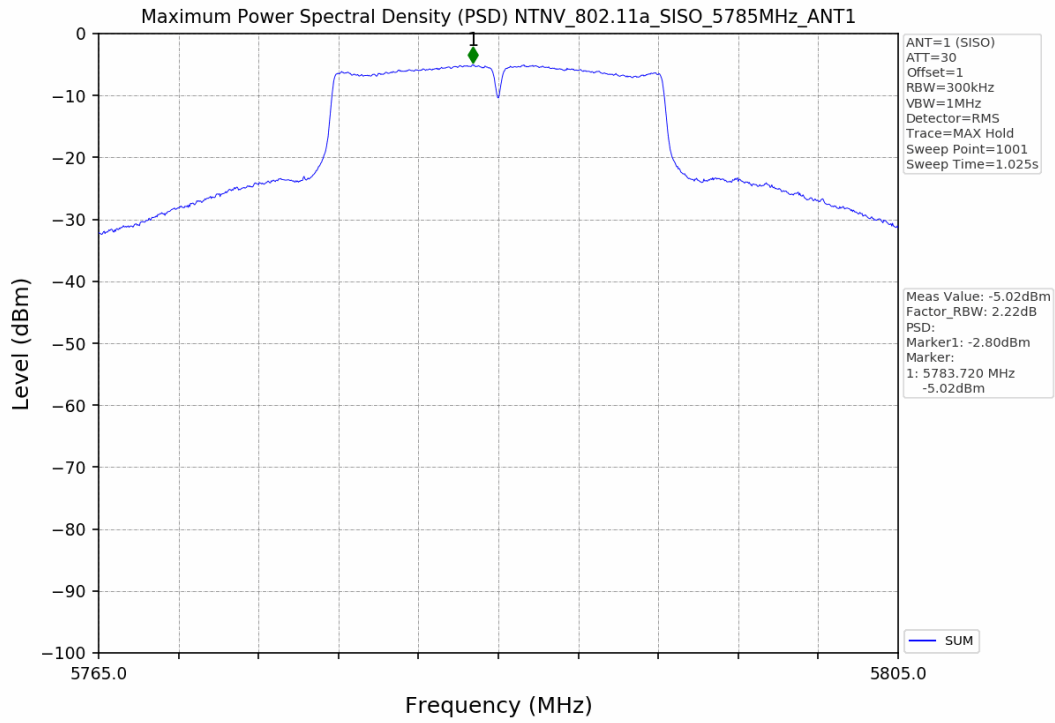
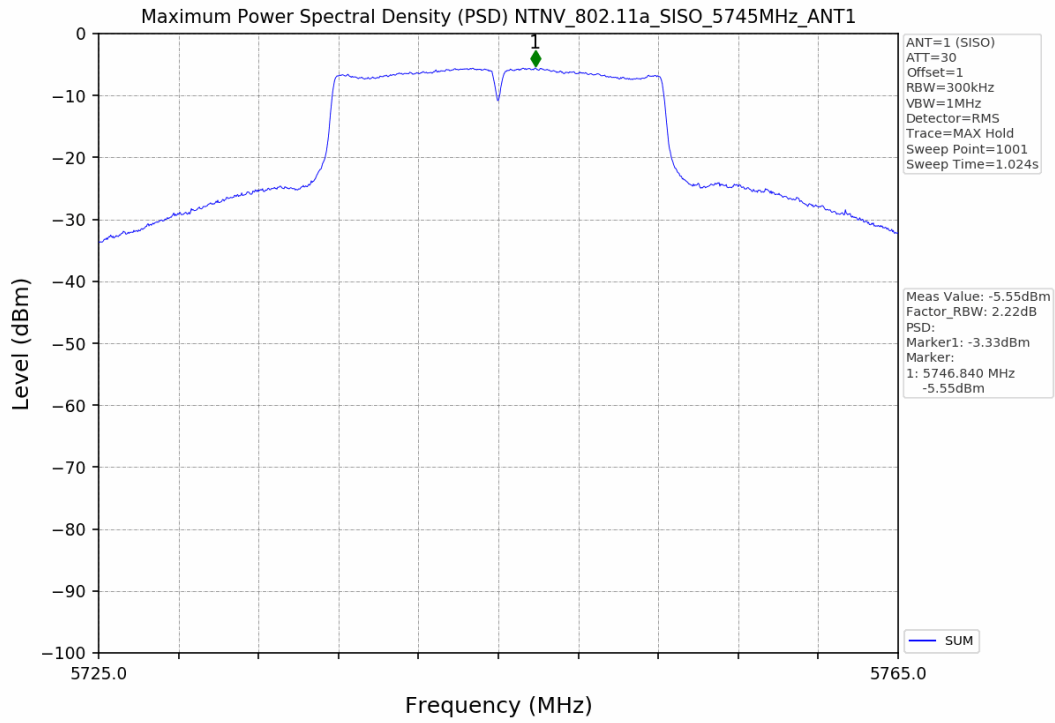


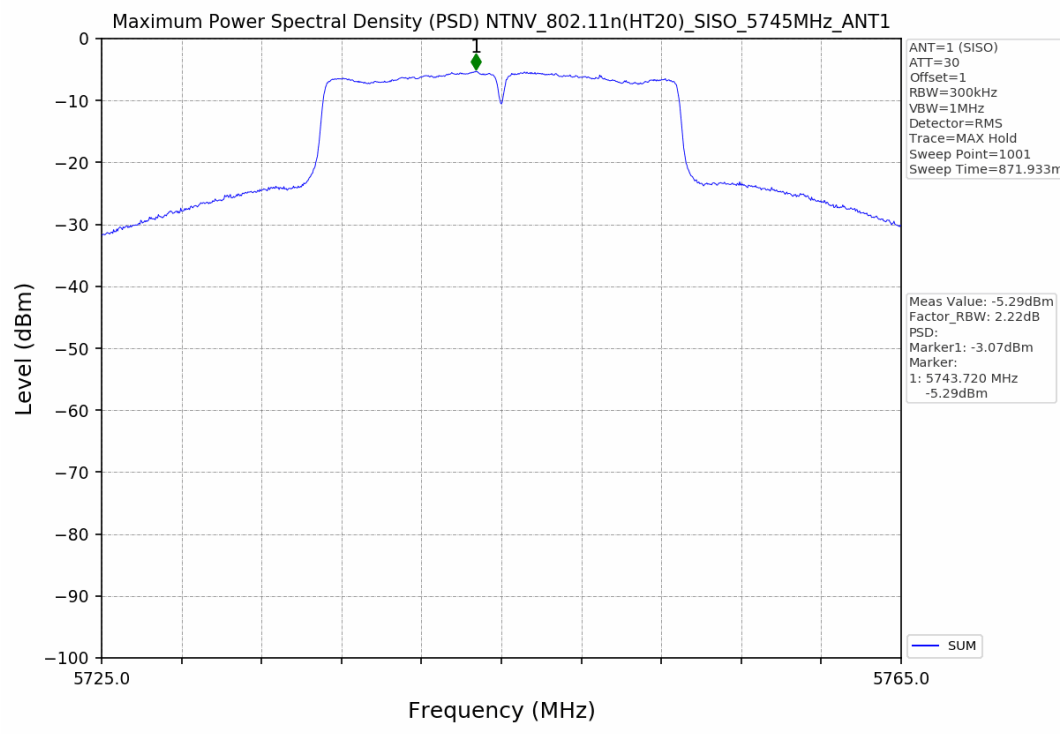
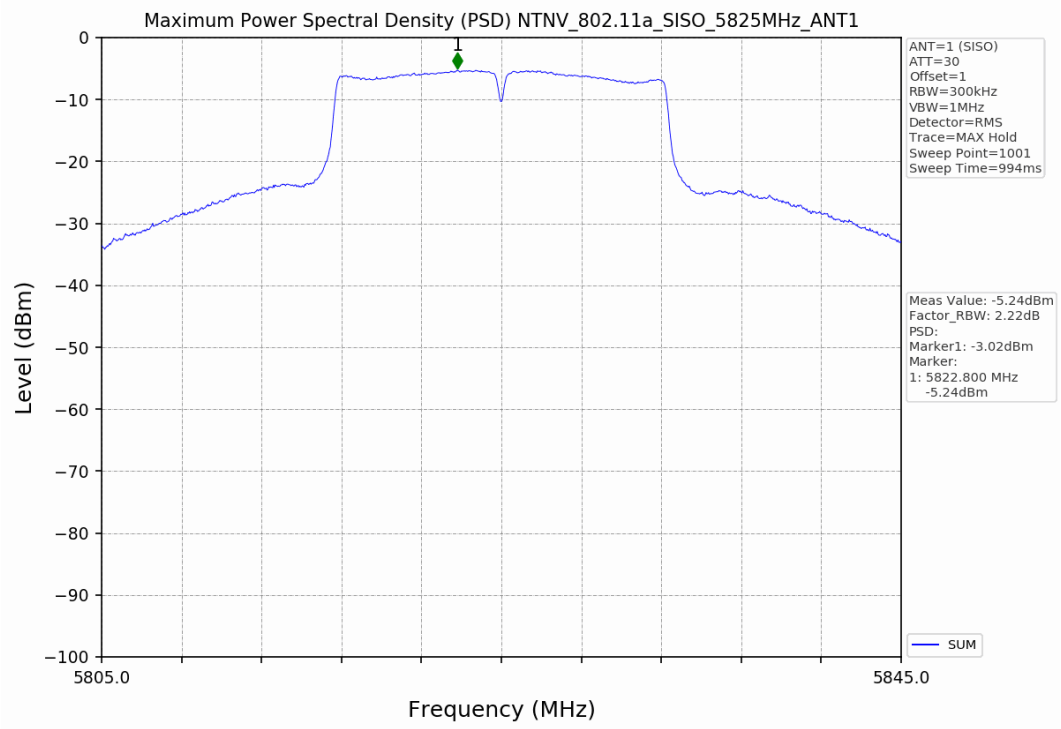


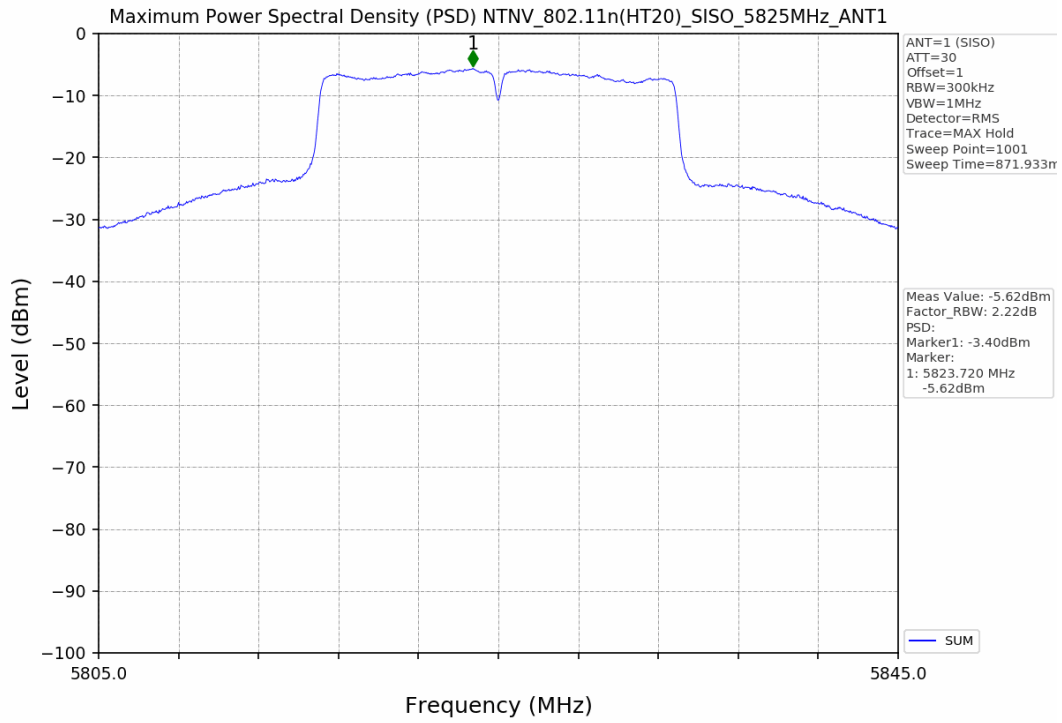
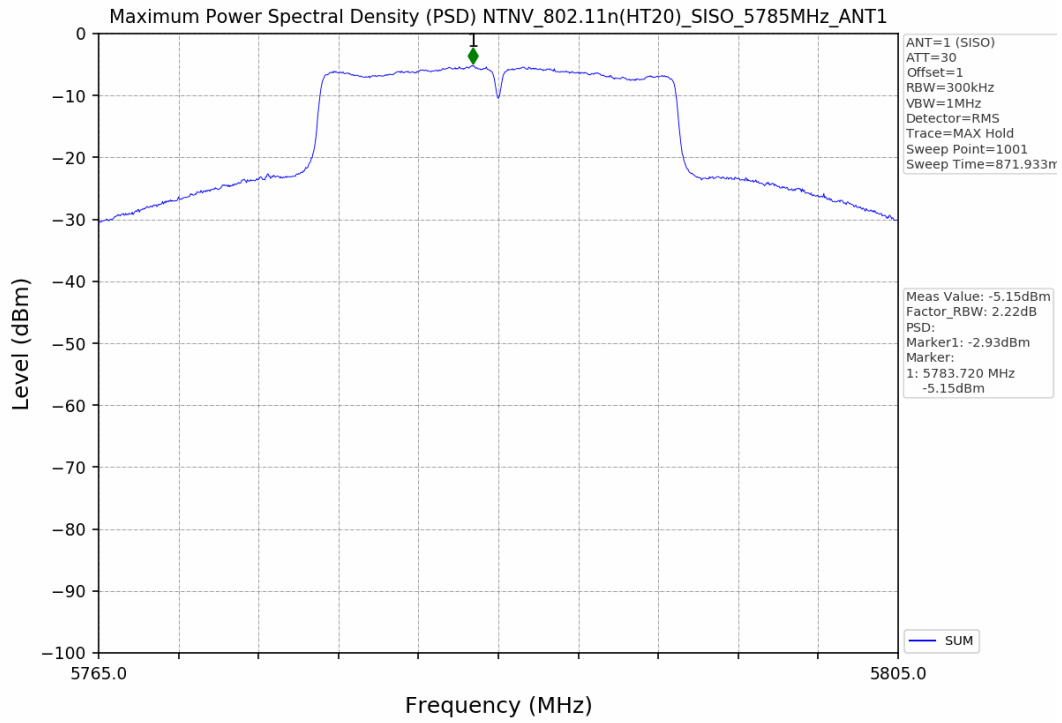












4. Frequency Stability

4.1 Test Result

Reference Frequency: 802.11a channel=36 frequency=5180MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
5.00	-30	45.6	8.80	Within the band of operation	Pass
	-20	66.7	12.88		
	-10	79.4	15.33		
	0	83.2	16.06		
	10	83.7	16.16		
	20	65.7	12.68		
	30	52.8	10.19		
	40	56.8	10.97		
	50	50.1	9.67		
5.50	25	90.6	17.49	Within the band of operation	Pass
4.50	25	45.6	8.80		