

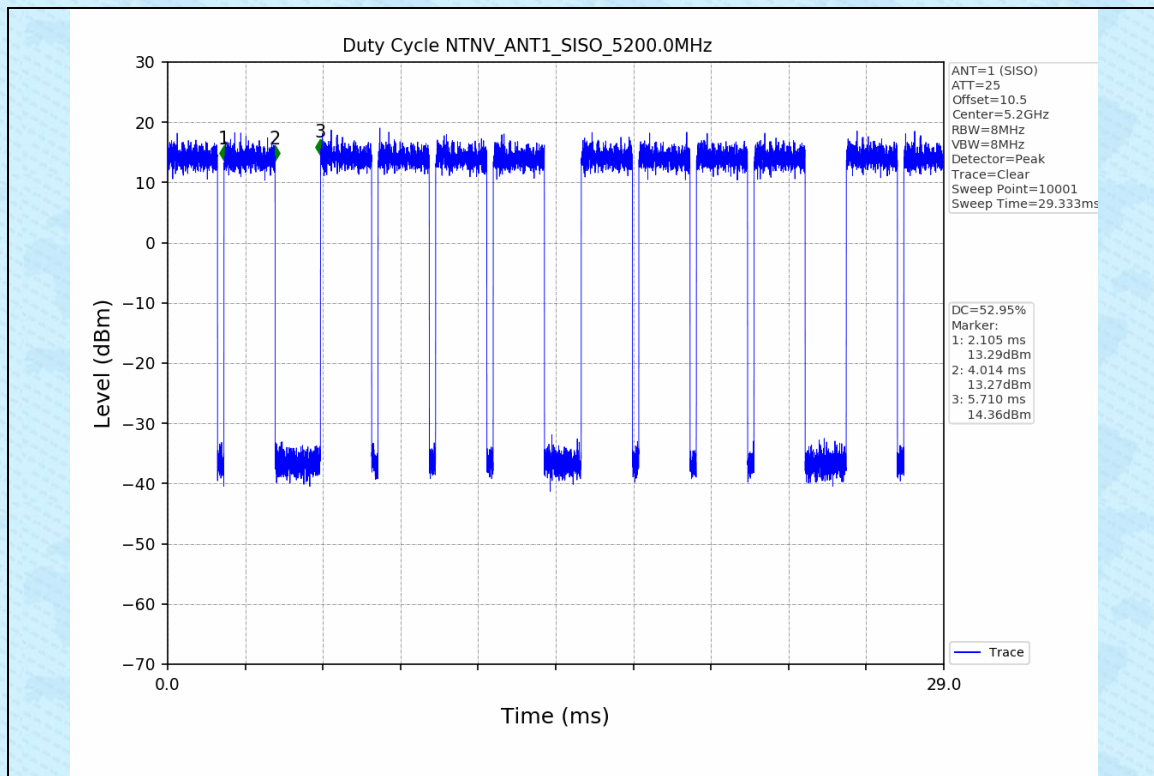
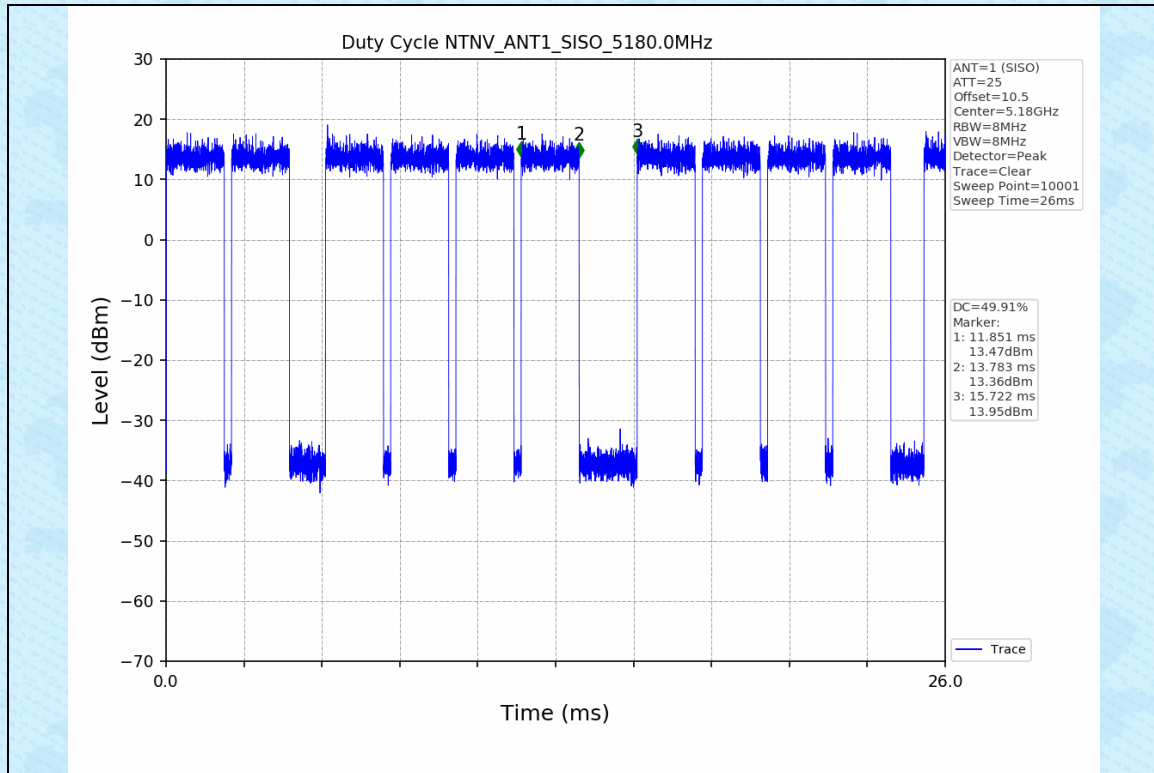
Appendix for 15.407

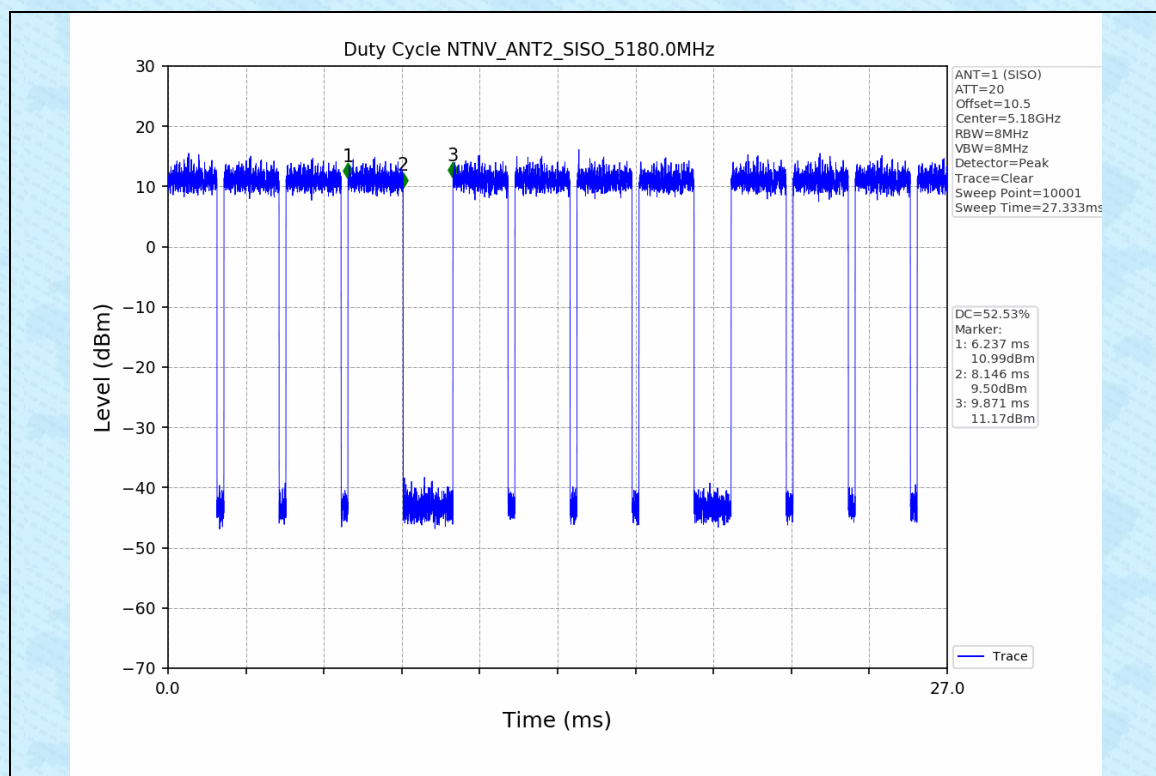
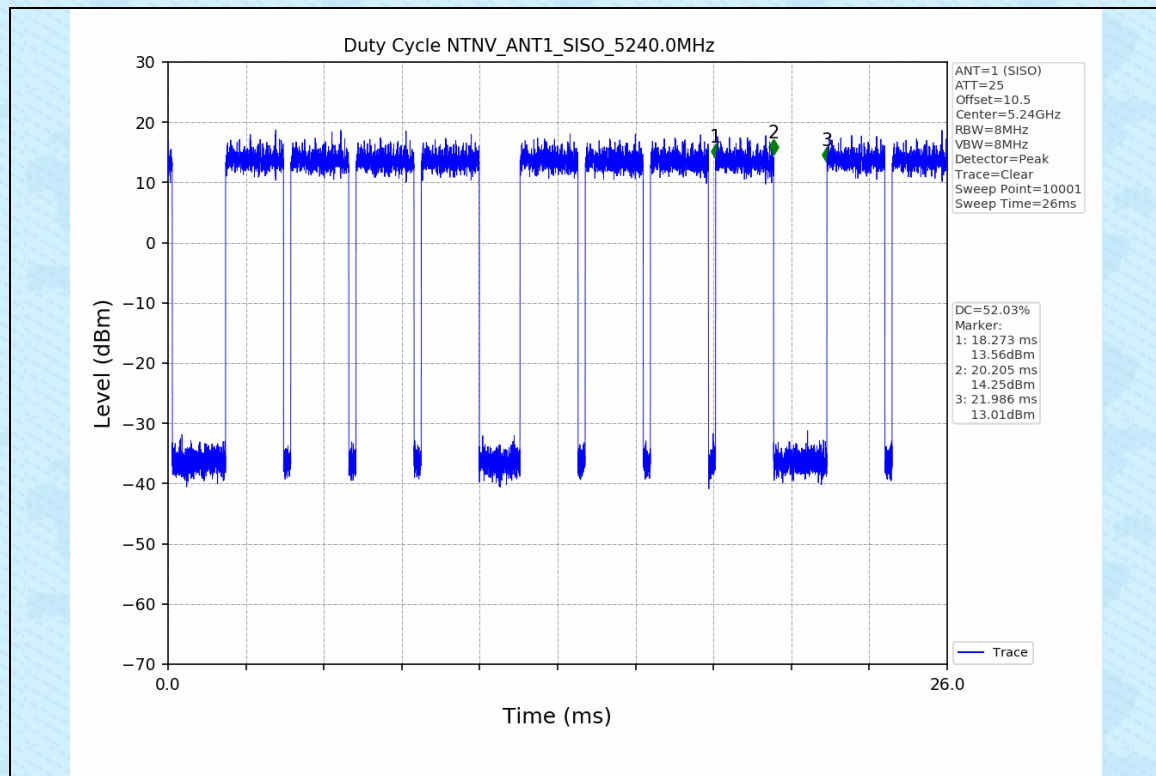
1. Duty Cycle

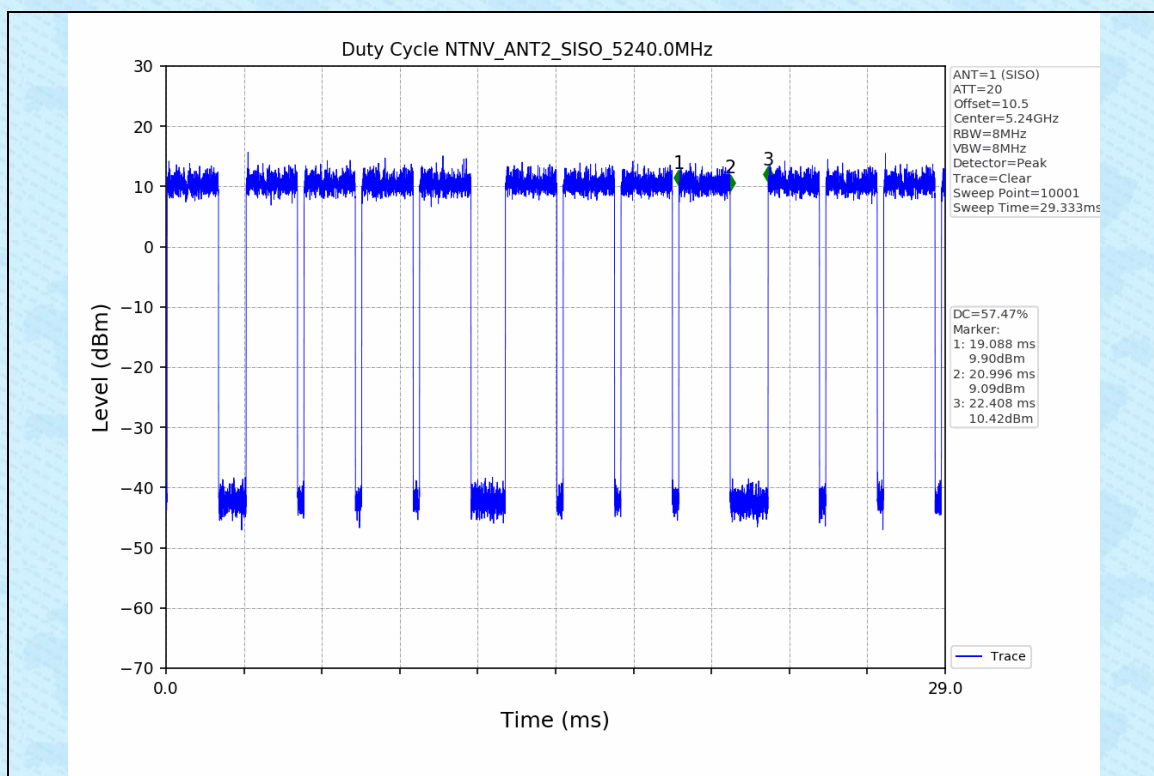
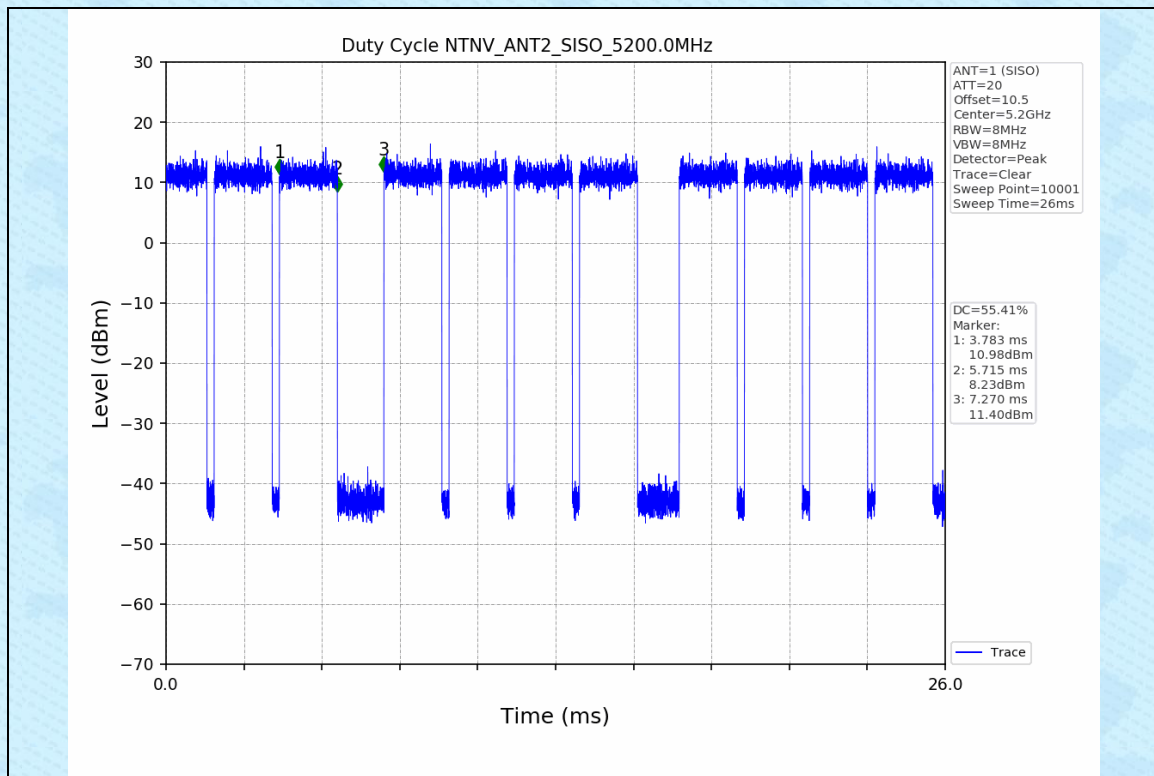
1.1 Test Result

Test Mode	Channel Frequency (MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11ac(VHT20)	5180.0	SISO	1	1.932	3.871	49.91	3.02
	5200.0	SISO	1	1.909	3.605	52.95	2.76
	5240.0	SISO	1	1.932	3.713	52.03	2.84
	5180.0	SISO	2	1.909	3.634	52.53	2.80
	5200.0	SISO	2	1.932	3.487	55.41	2.56
	5240.0	SISO	2	1.908	3.320	57.47	2.41

1.2 Test Graph







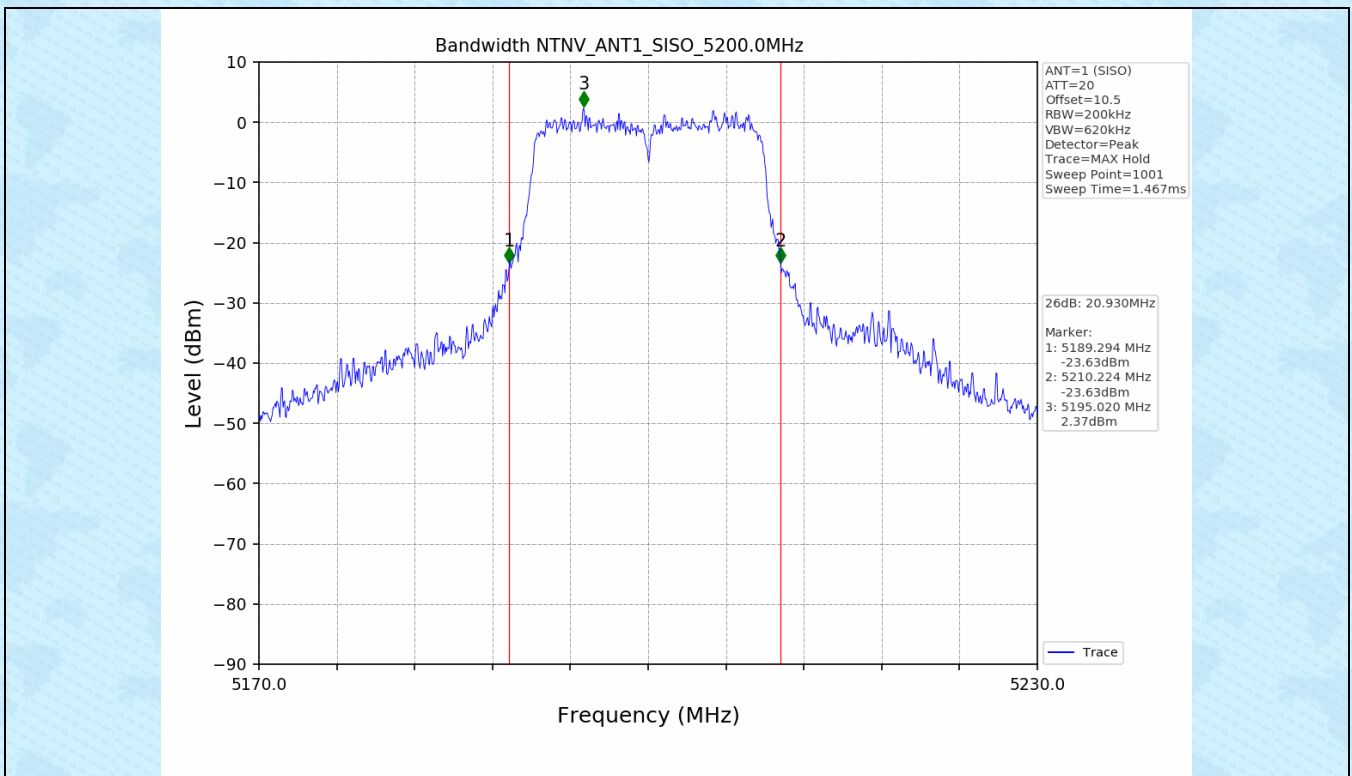
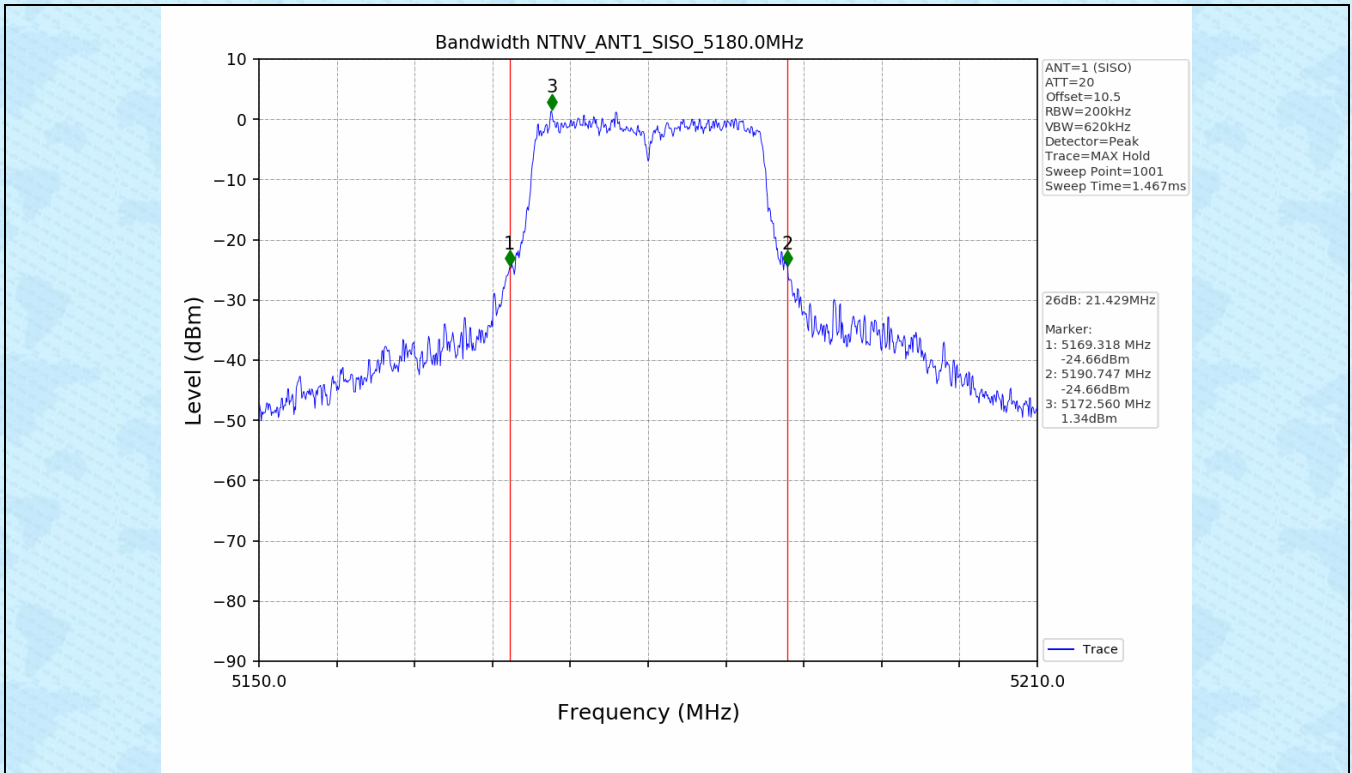
2. Bandwidth

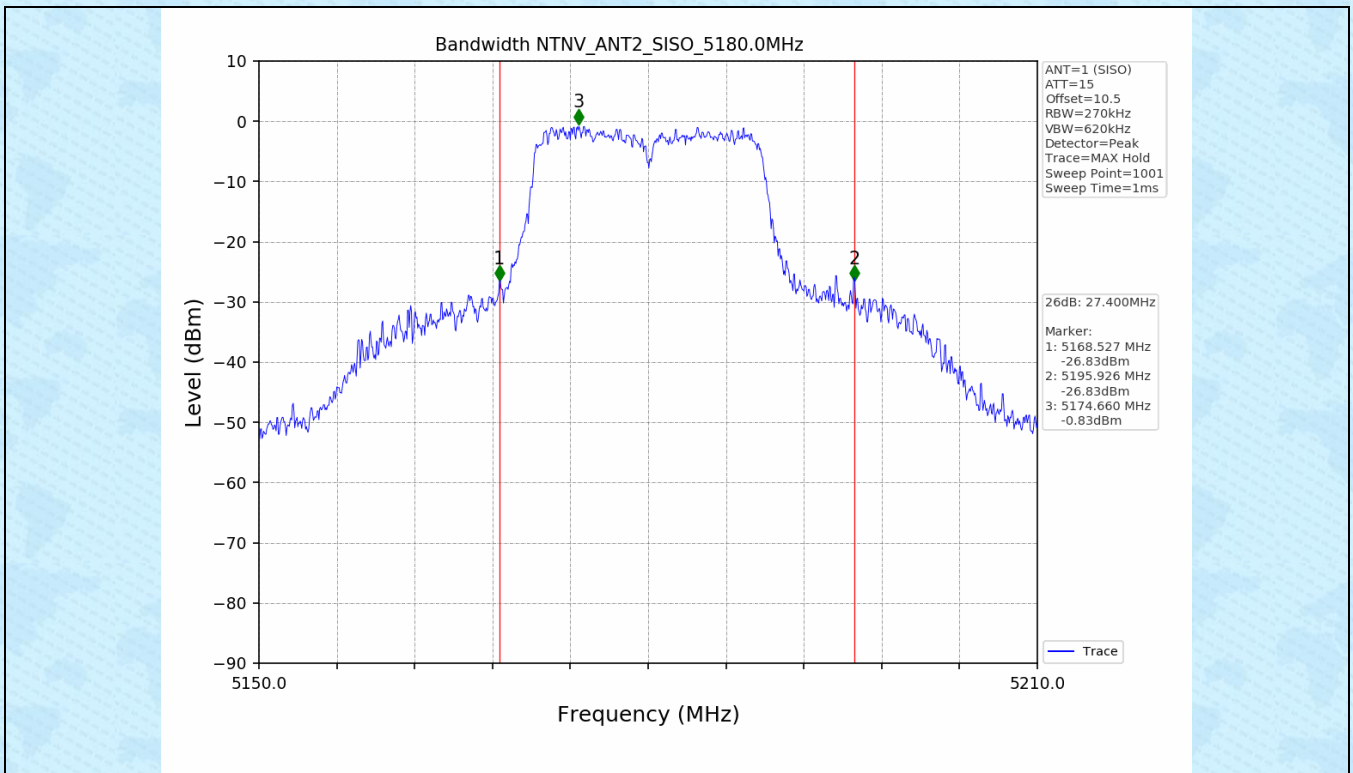
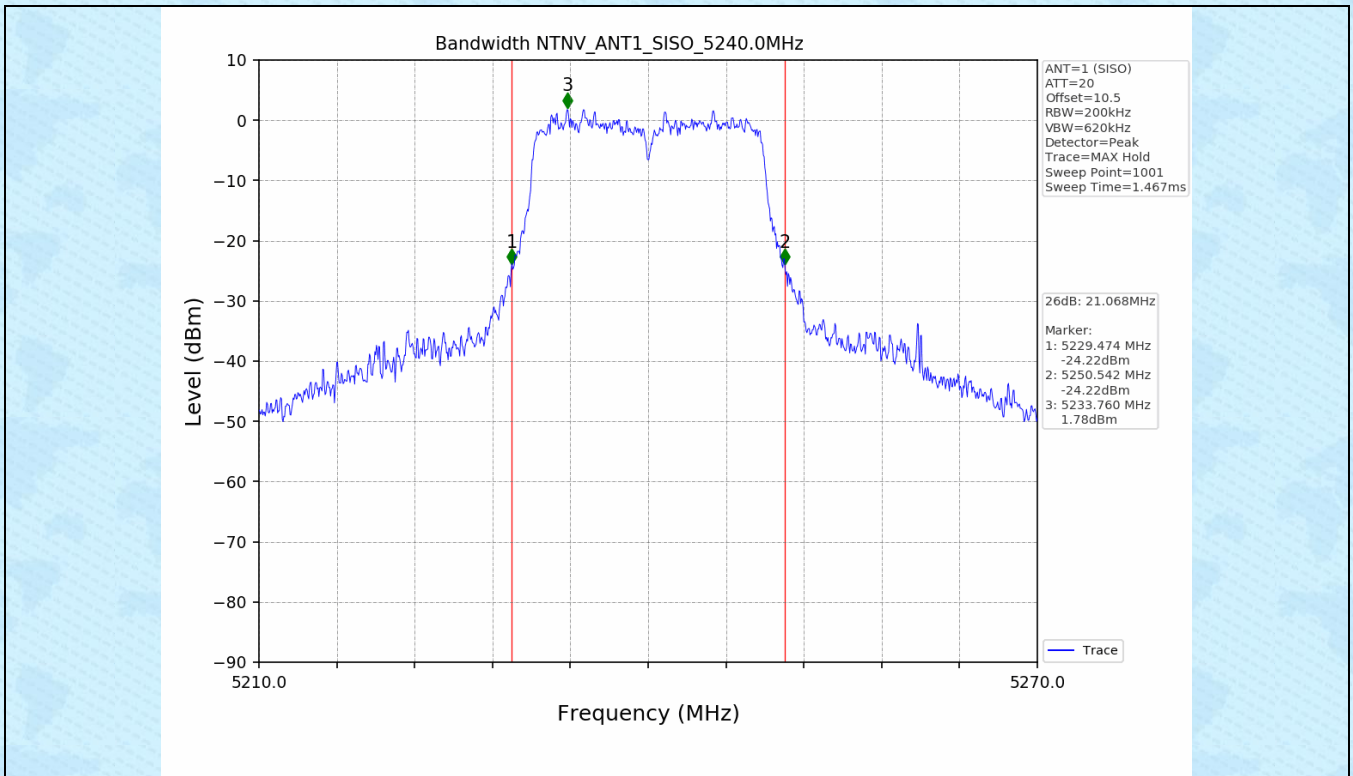
2.1 Test Result

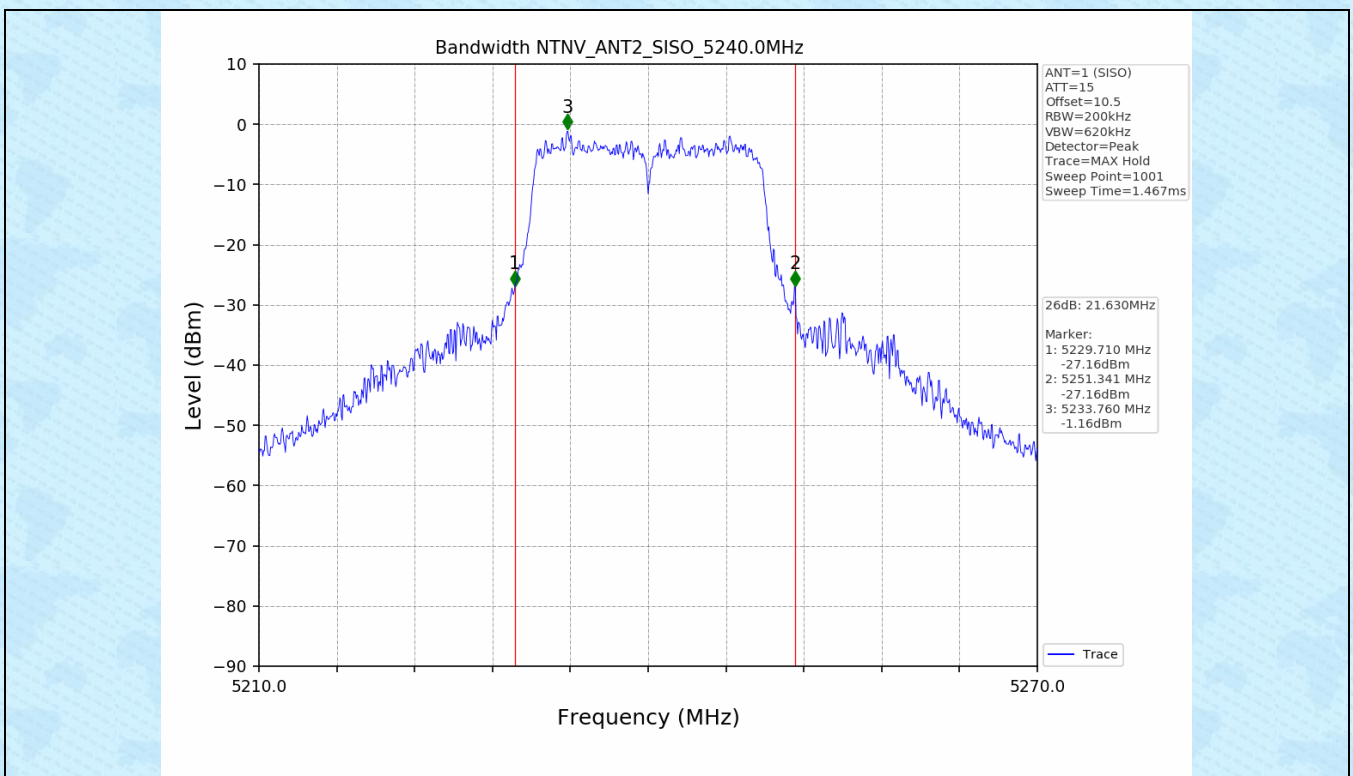
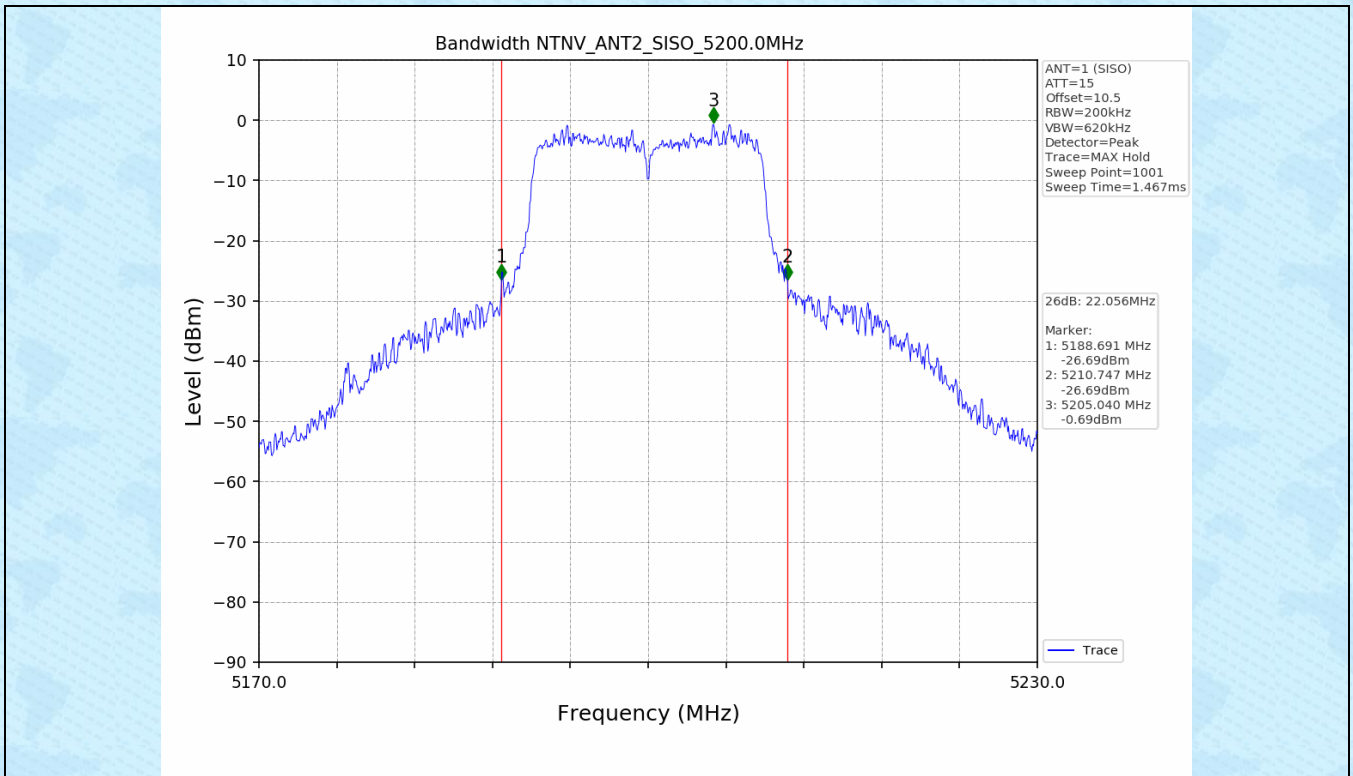
Test Mode	Frequency (MHz)	TX Type	ANT No.	Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11ac(VHT20)	5180.0	SISO	1	21.429	Only for Report Use	PASS
	5200.0	SISO	1	20.930	Only for Report Use	PASS
	5240.0	SISO	1	21.068	Only for Report Use	PASS
	5180.0	SISO	2	27.400	Only for Report Use	PASS
	5200.0	SISO	2	22.056	Only for Report Use	PASS
	5240.0	SISO	2	21.630	Only for Report Use	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11ac(VHT20)	5180.0	SISO	1	18.299	Only for Report Use
	5200.0	SISO	1	18.312	Only for Report Use
	5240.0	SISO	1	18.373	Only for Report Use
	5180.0	SISO	2	18.515	Only for Report Use
	5200.0	SISO	2	18.398	Only for Report Use
	5240.0	SISO	2	18.307	Only for Report Use

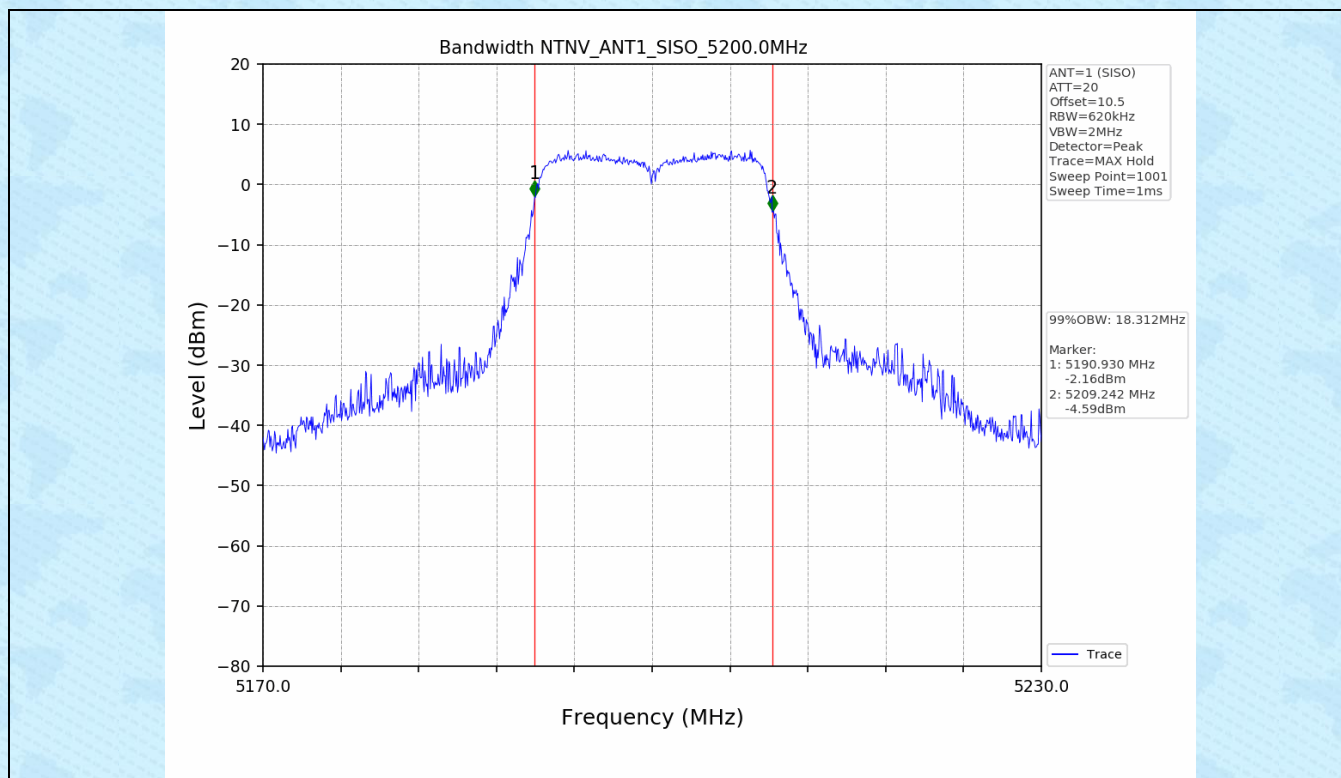
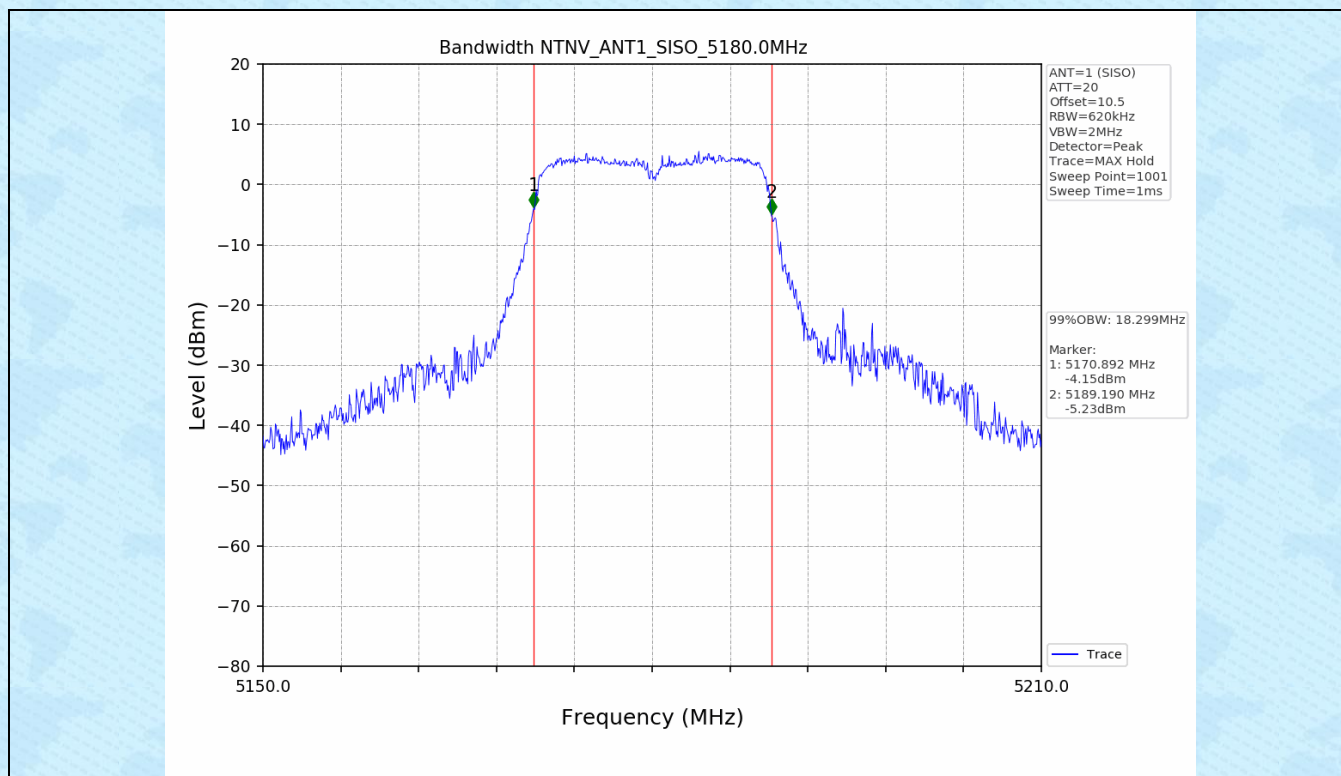
2.2 Test Graph - Emission Bandwidth

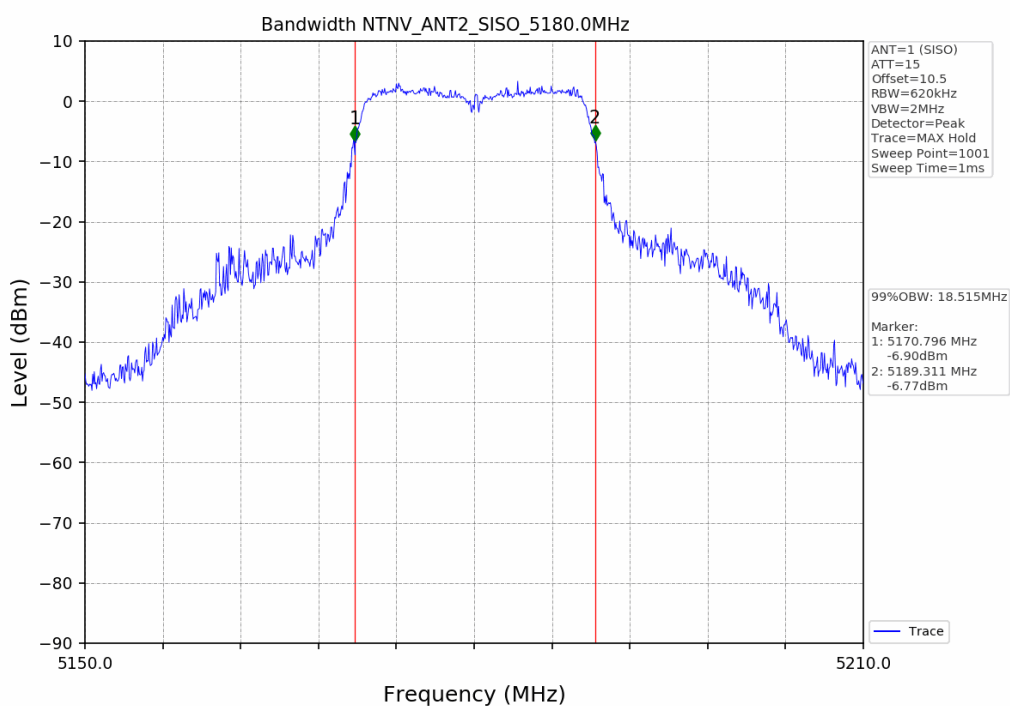
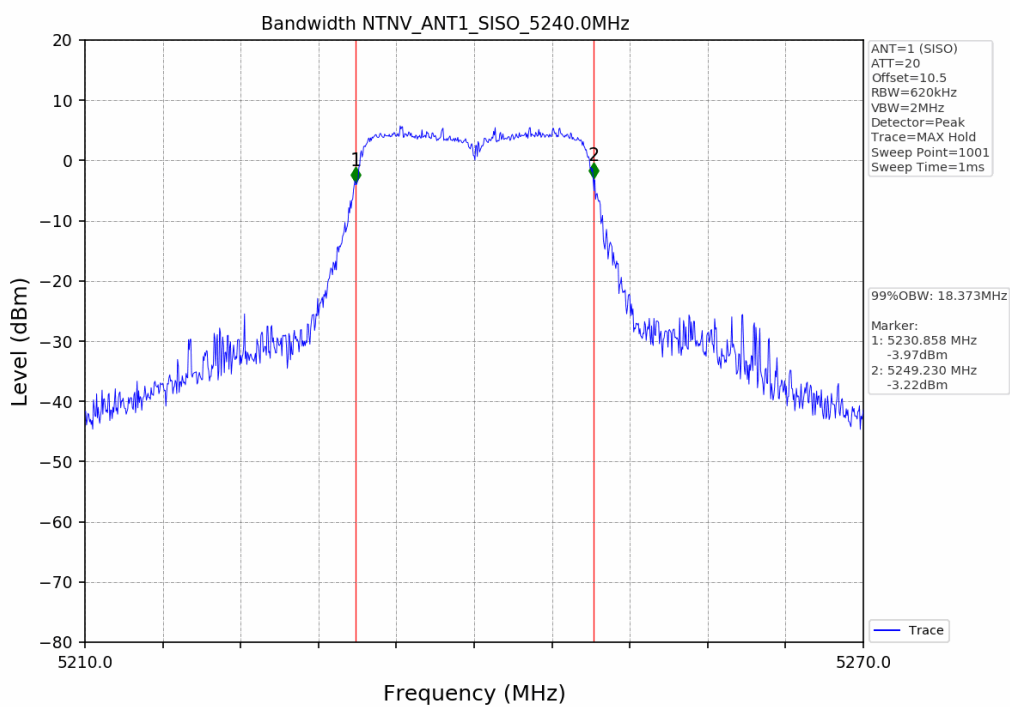


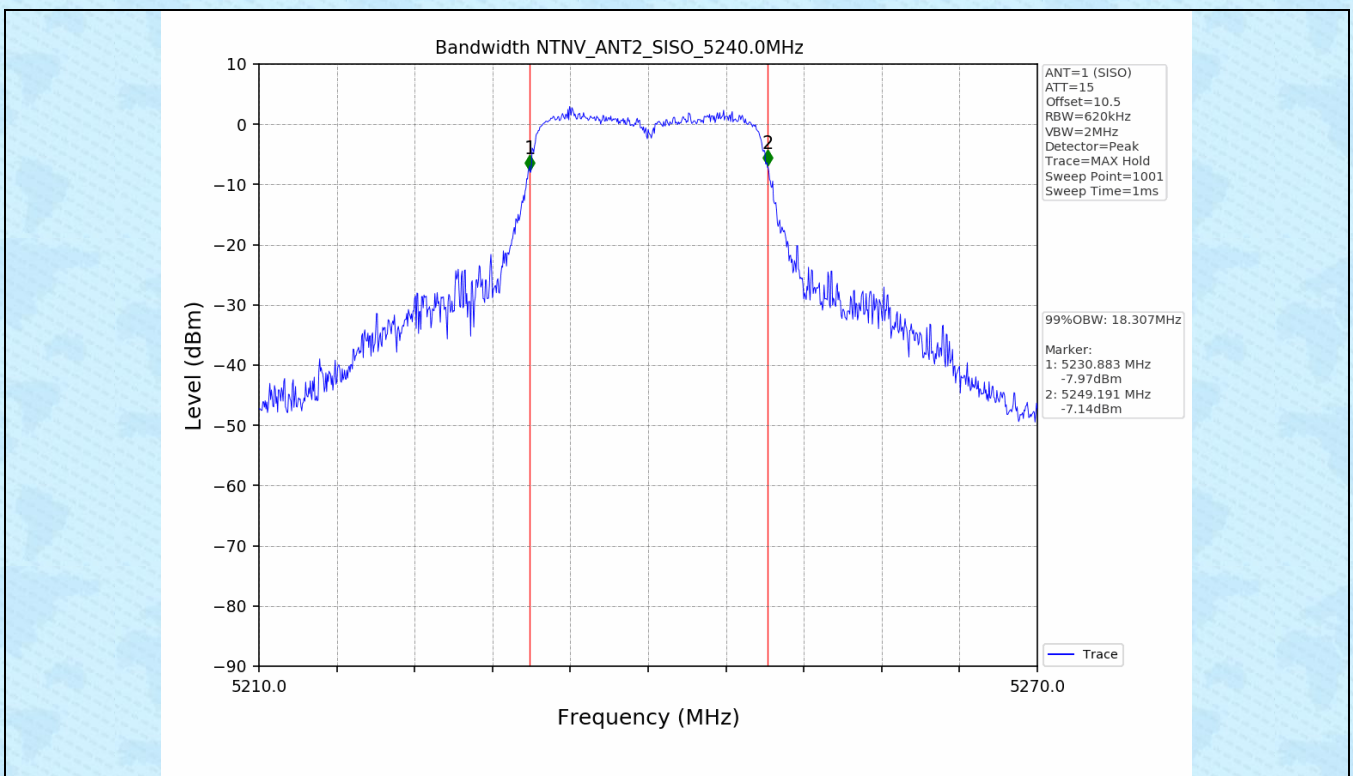
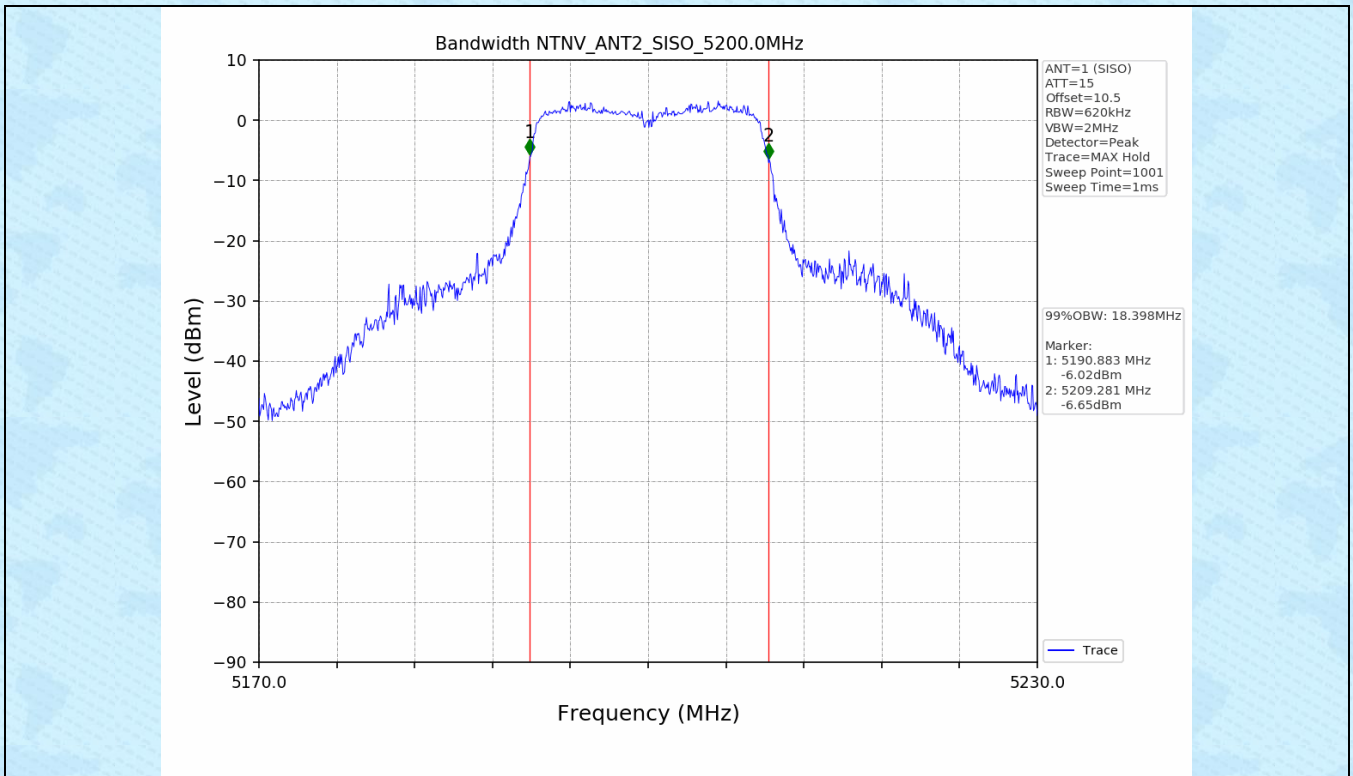




2.3 Test Graph - 99% Occupied Bandwidth







3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)	Duty Factor	Output Power (dBm)	Limit (dBm)	Verdict
			Ant 1				
802.11ac(VHT20)	5180	SISO	11.63	3.02	14.65	≤23.98	PASS
	5200	SISO	12.55	2.76	15.31	≤23.98	PASS
	5240	SISO	11.71	2.84	14.55	≤23.98	PASS

Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)	Duty Factor	Output Power (dBm)	Limit (dBm)	Verdict
			Ant 2				
802.11ac(VHT20)	5180	SISO	9.23	2.80	12.03	≤23.98	PASS
	5200	SISO	9.24	2.56	11.80	≤23.98	PASS
	5240	SISO	8.39	2.41	10.80	≤23.98	PASS

Test Mode	Frequency (MHz)	Tx Type	Output Power (dBm)	Limit (dBm)	Verdict
802.11ac(VHT20)	5180	MIMO	16.54	≤23.98	Pass
	5200	MIMO	16.91	≤23.98	Pass
	5240	MIMO	16.08	≤23.98	Pass

Note: transmit signals are completely correlated,
Directional gain= $10 \times \log[(10^{2.34/20} + 10^{0.78/20})/2] = 4.61\text{dBi}$

4. Maximum Power Spectral Density (PSD)

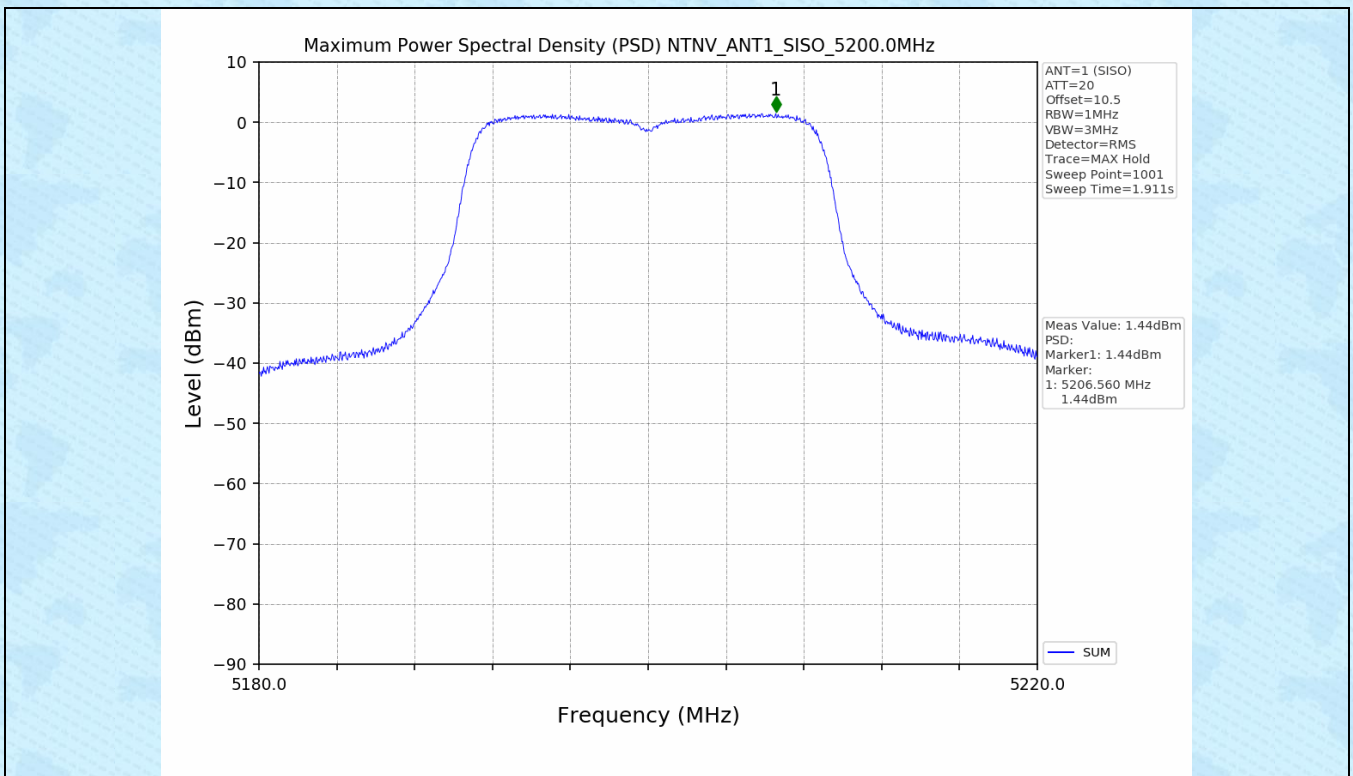
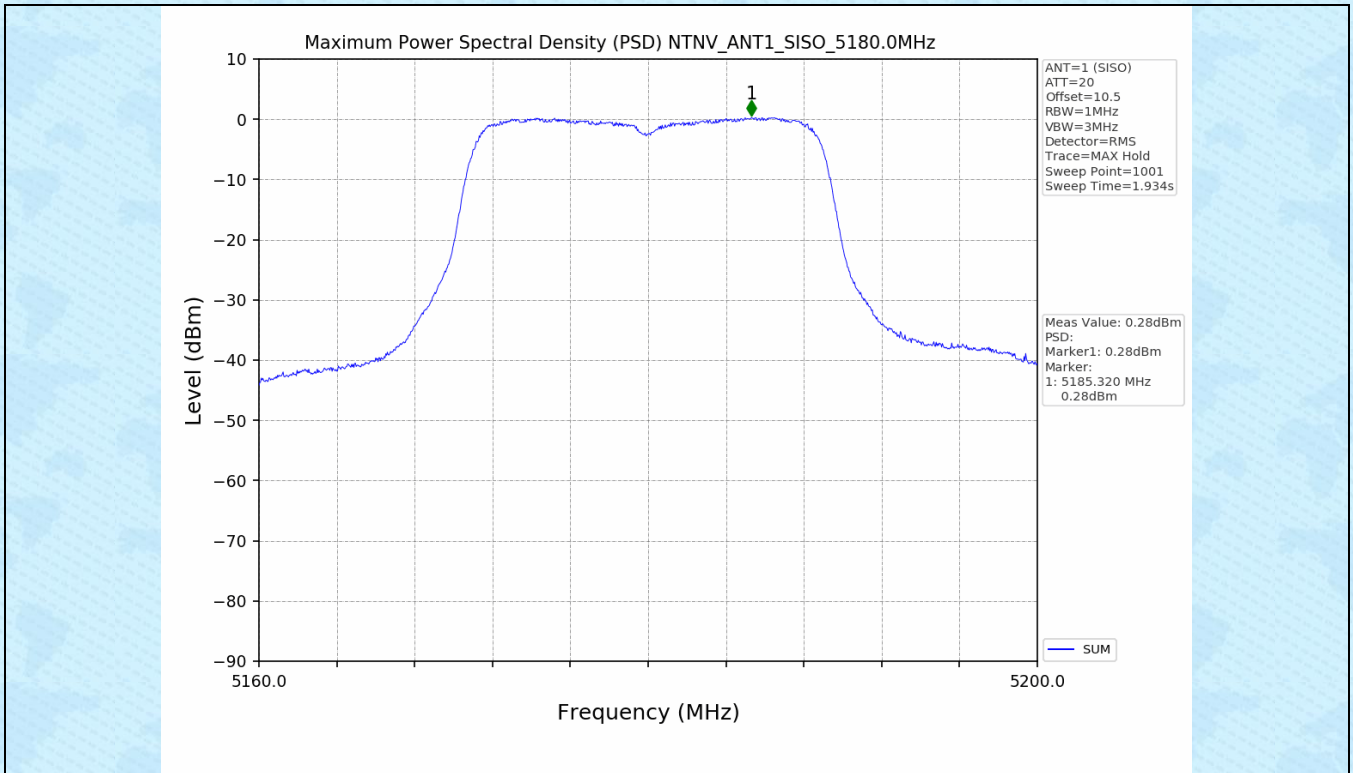
4.1 Test Result

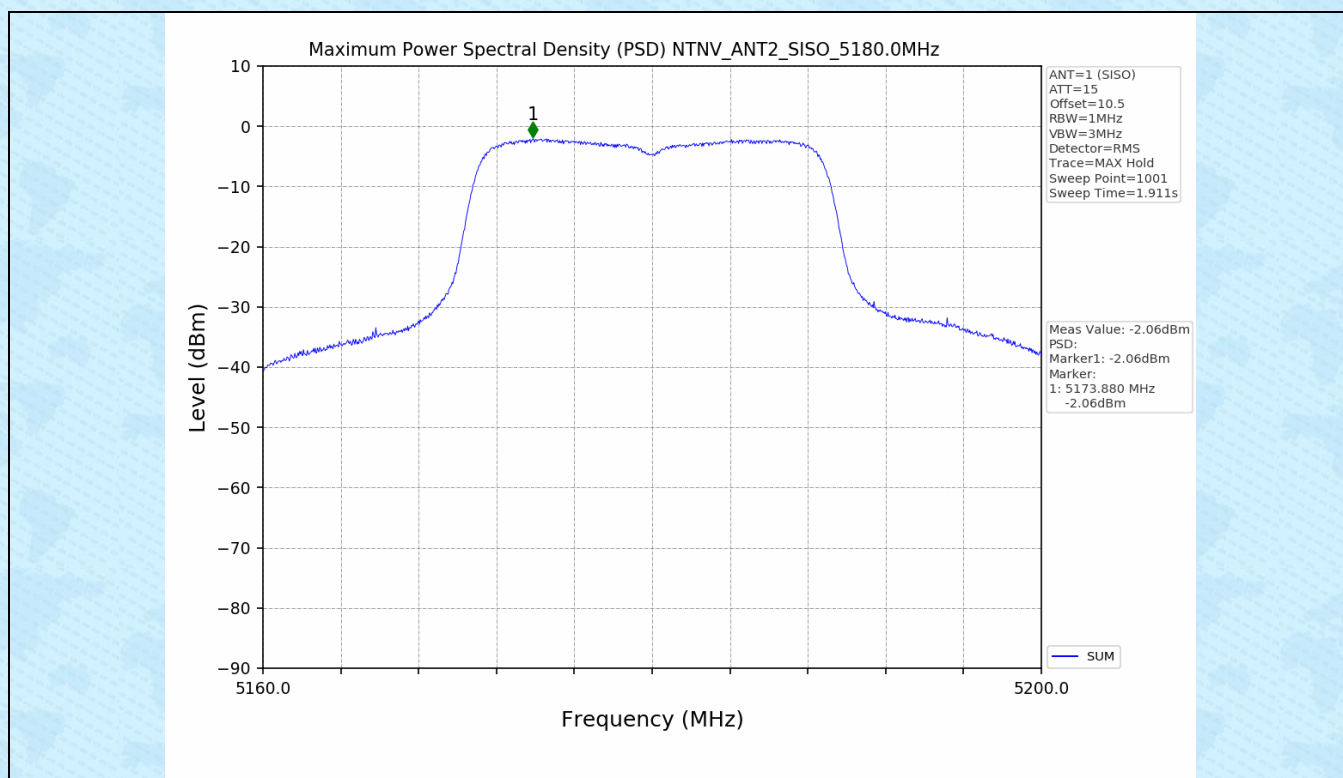
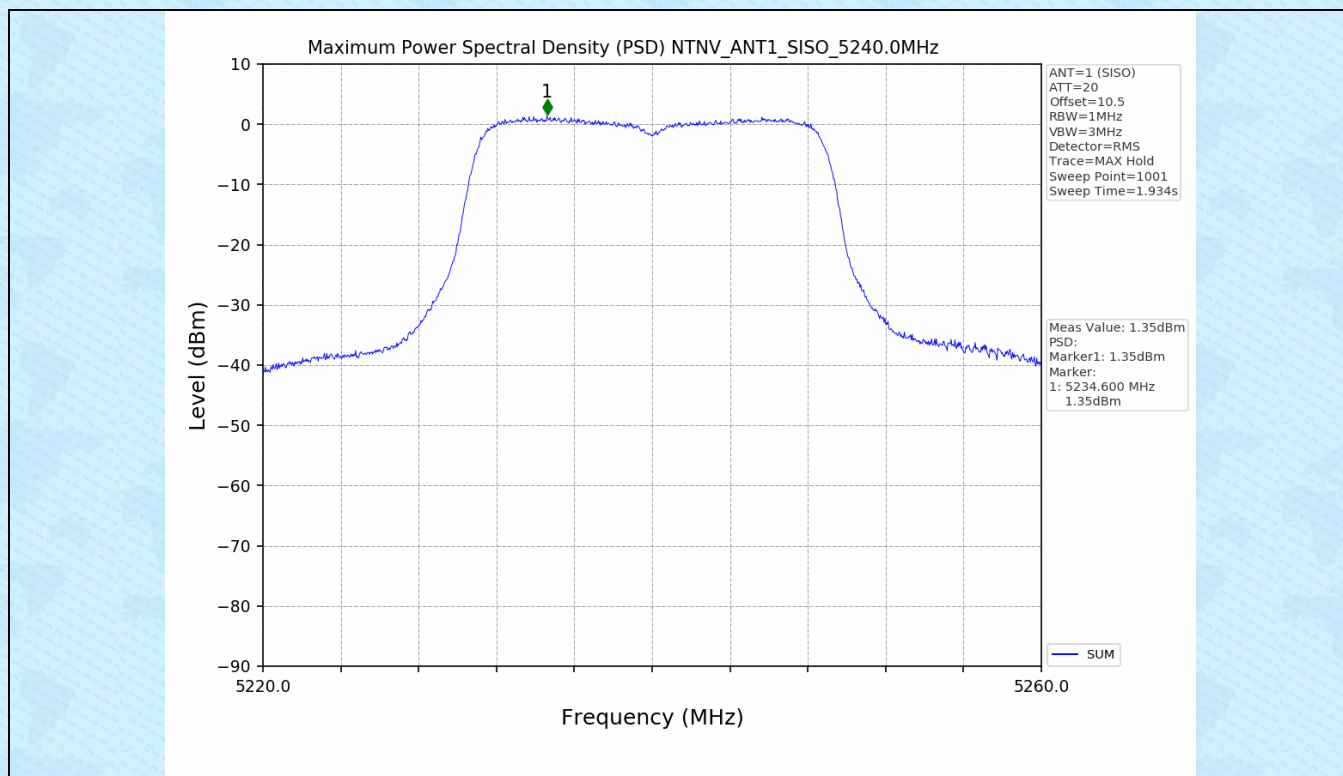
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/MHz)	Duty Factor	Total Power Spectral Density (dBm/MHz)	Limits (dBm/MHz)	Verdict
			Ant 1				
802.11ac(VHT20)	5180	SISO	0.28	3.02	3.30	≤11	PASS
	5200	SISO	1.44	2.76	4.20	≤11	PASS
	5240	SISO	1.35	2.84	4.19	≤11	PASS

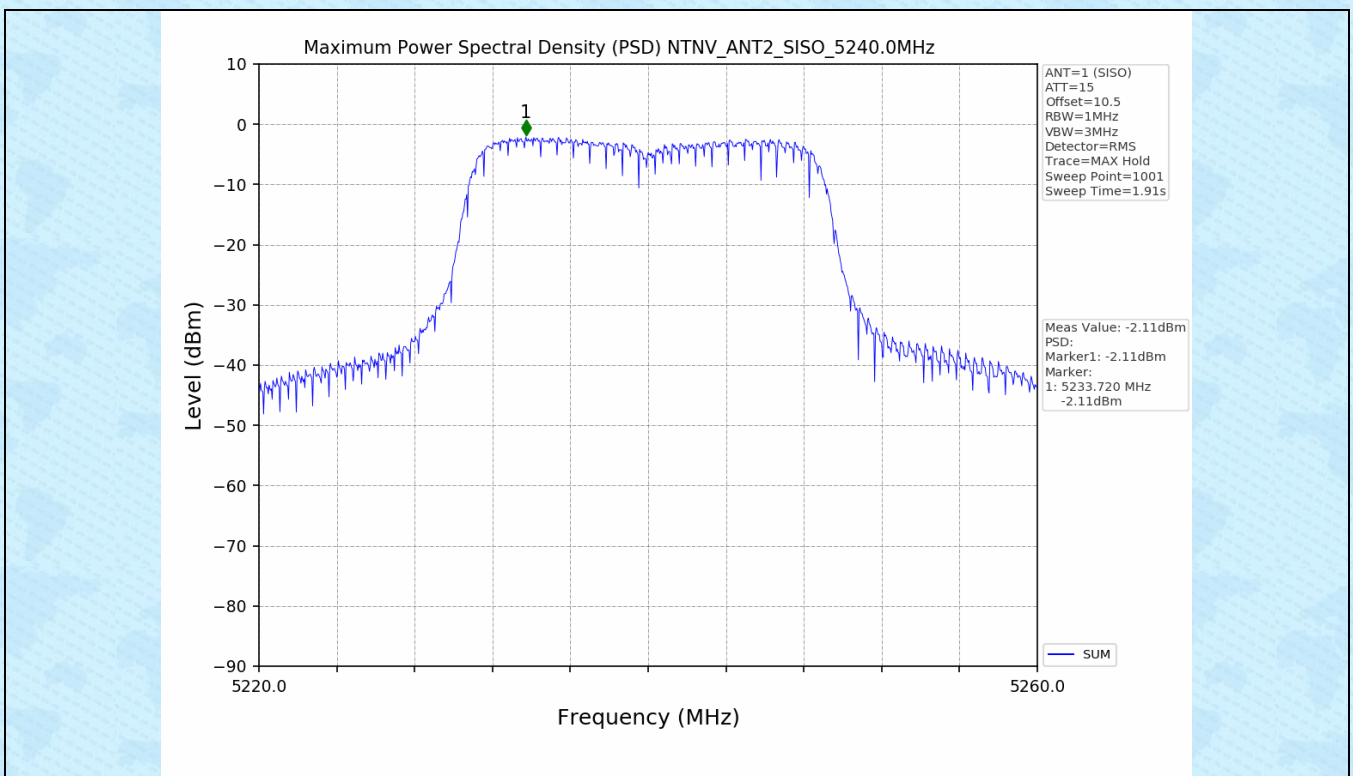
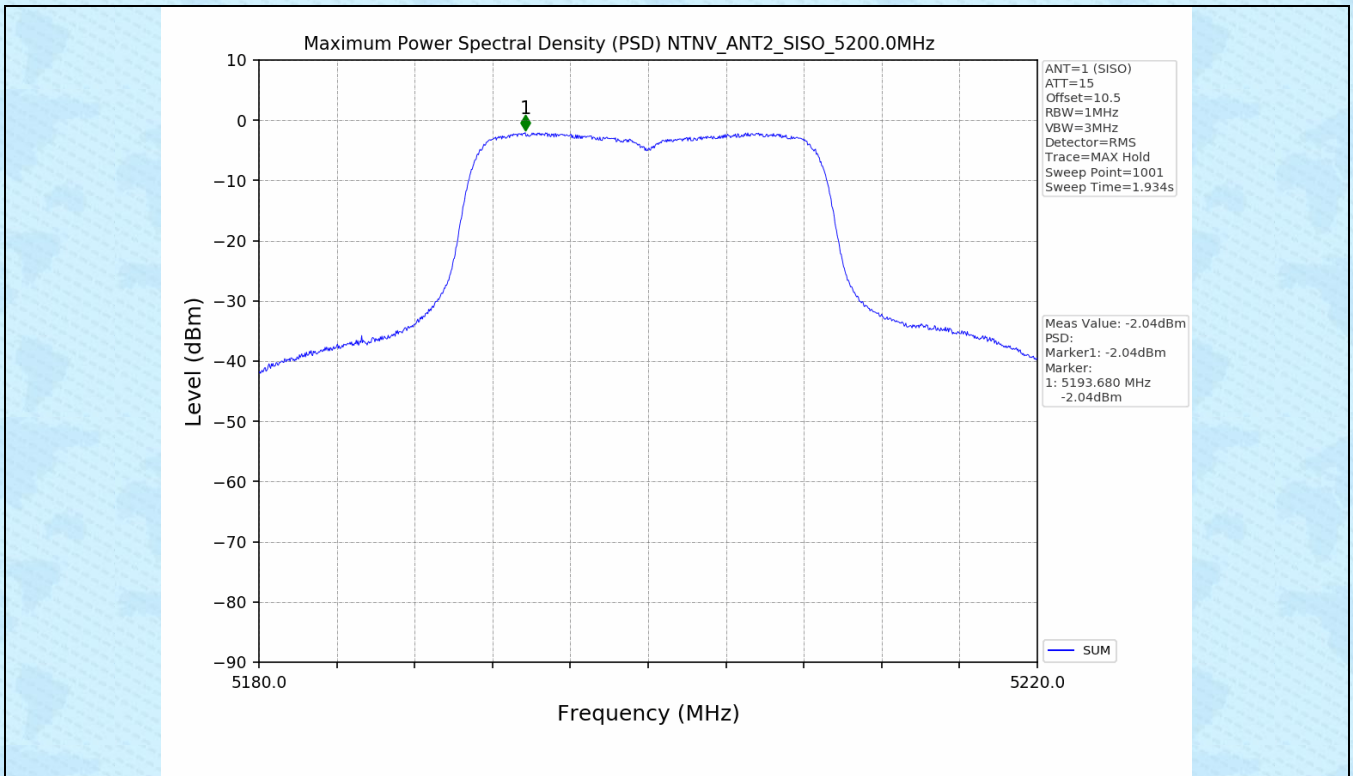
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/MHz)	Duty Factor	Total Power Spectral Density (dBm/MHz)	Limits (dBm/MHz)	Verdict
			Ant 2				
802.11ac(VHT20)	5180	SISO	-2.06	2.80	0.74	≤11	PASS
	5200	SISO	-2.04	2.56	0.52	≤11	PASS
	5240	SISO	-2.11	2.41	0.30	≤11	PASS

Test Mode	Frequency (MHz)	Tx Type	Power Spectral Density (dBm/MHz)	Limits (dBm/MHz)	Verdict
802.11ac(VHT20)	5180	MIMO	5.22	≤11	Pass
	5200	MIMO	5.75	≤11	Pass
	5240	MIMO	5.68	≤11	Pass

4.2 Test Graph







5. Frequency Stability

5.1 Test Result

Only show the worst case

Test Condition	Test Mode	Test Frequency [MHz]	Ant	Result [ppm]	Limit [ppm]	Verdict
NTNV	Carrier	5180	1	-5.17	<=20	PASS
		5200	1	-5.29	<=20	PASS
		5240	1	-5.36	<=20	PASS
		5180	2	-5.52	<=20	PASS
		5200	2	-5.64	<=20	PASS
		5240	2	-5.32	<=20	PASS

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