

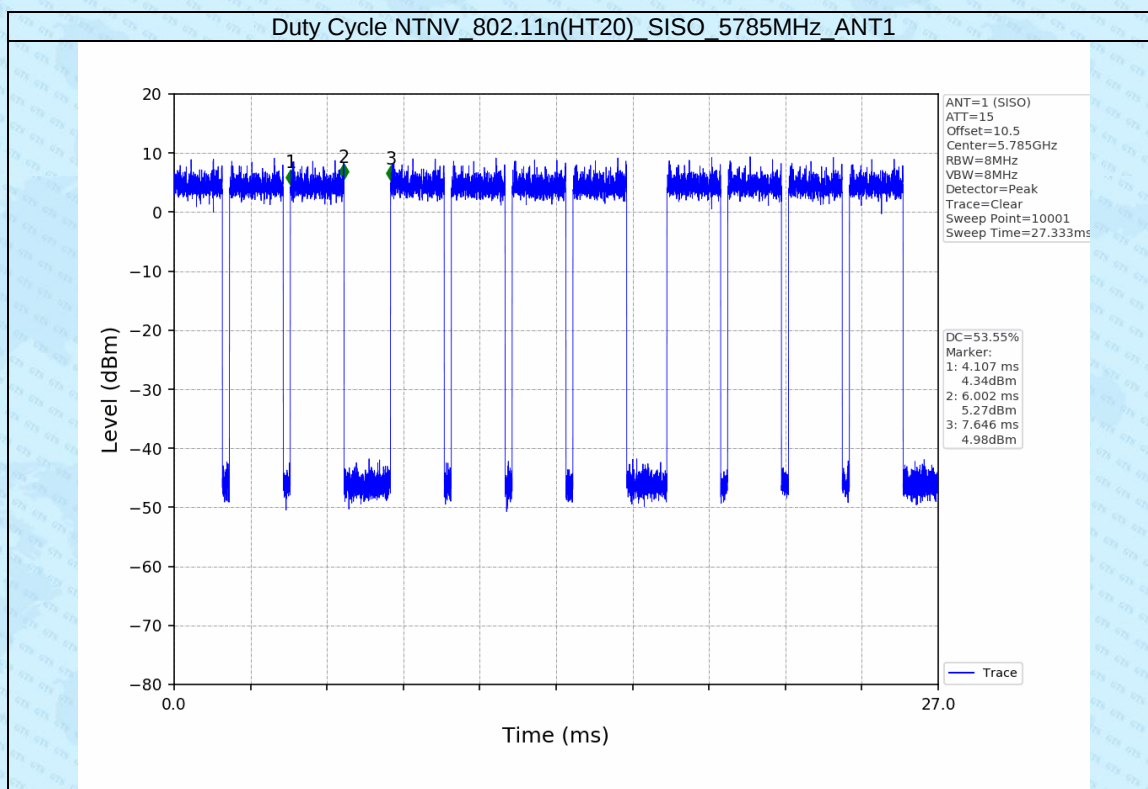
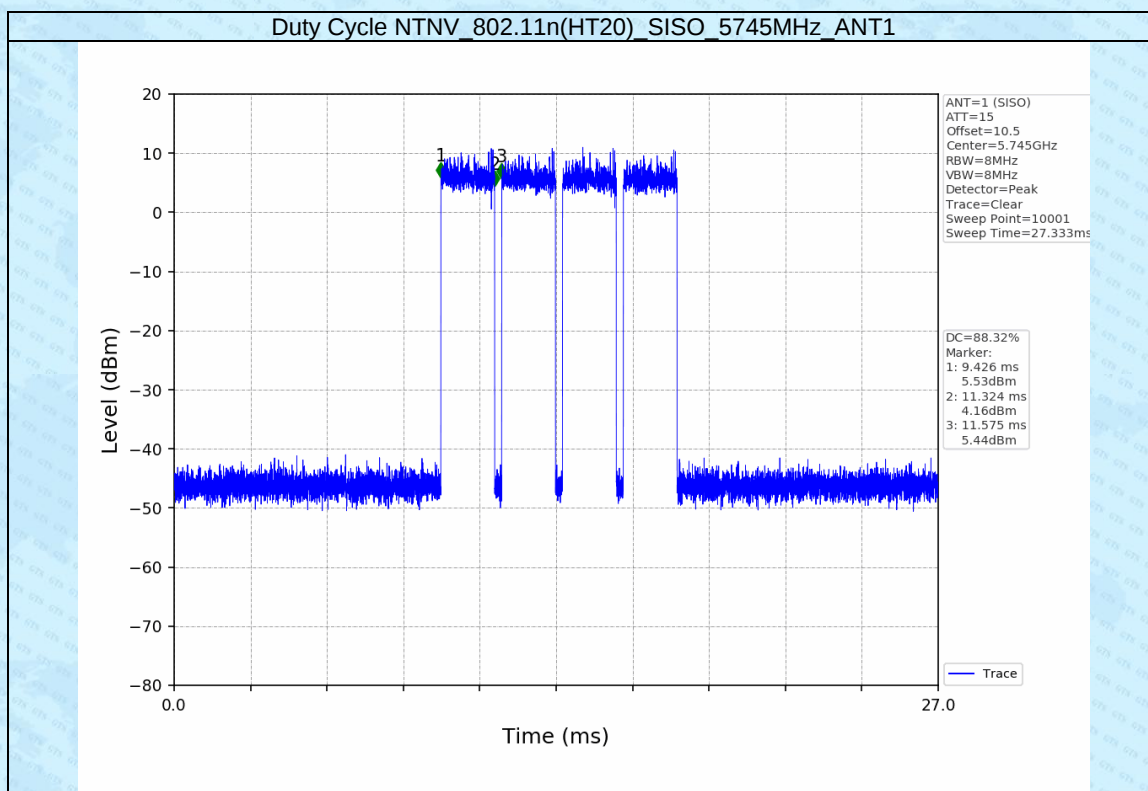
Appendix for 15.407

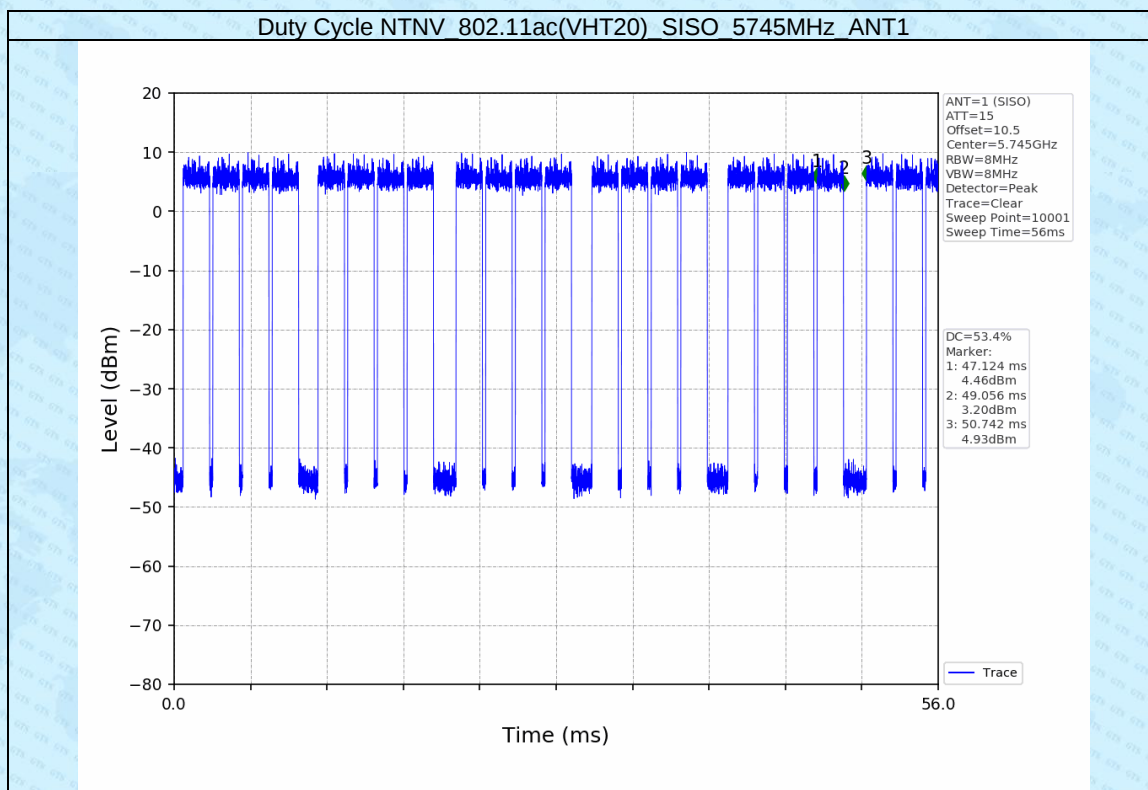
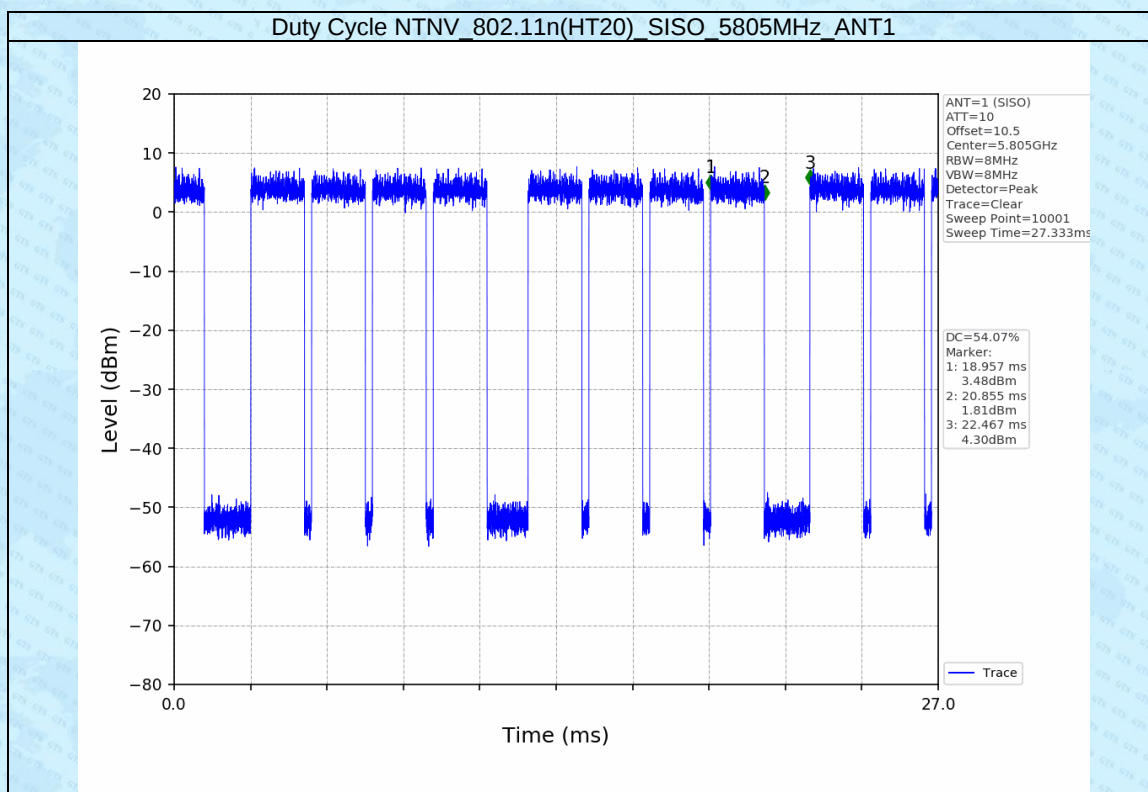
1. Duty Cycle

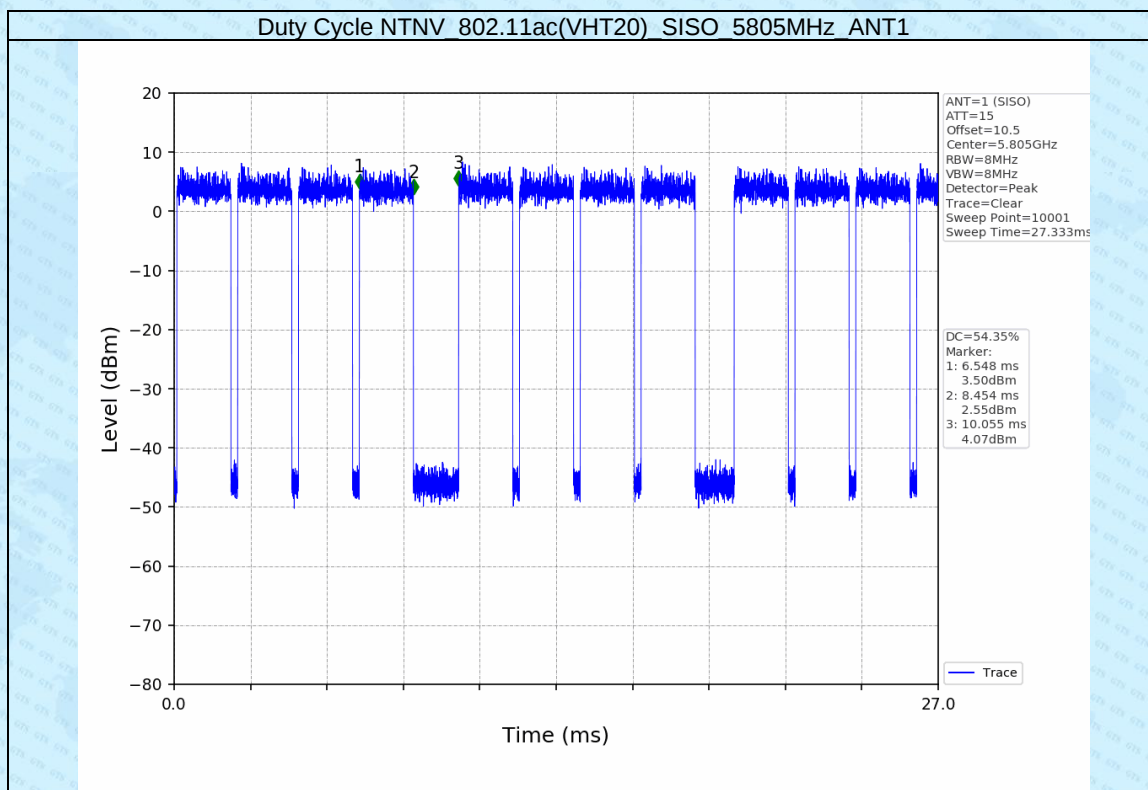
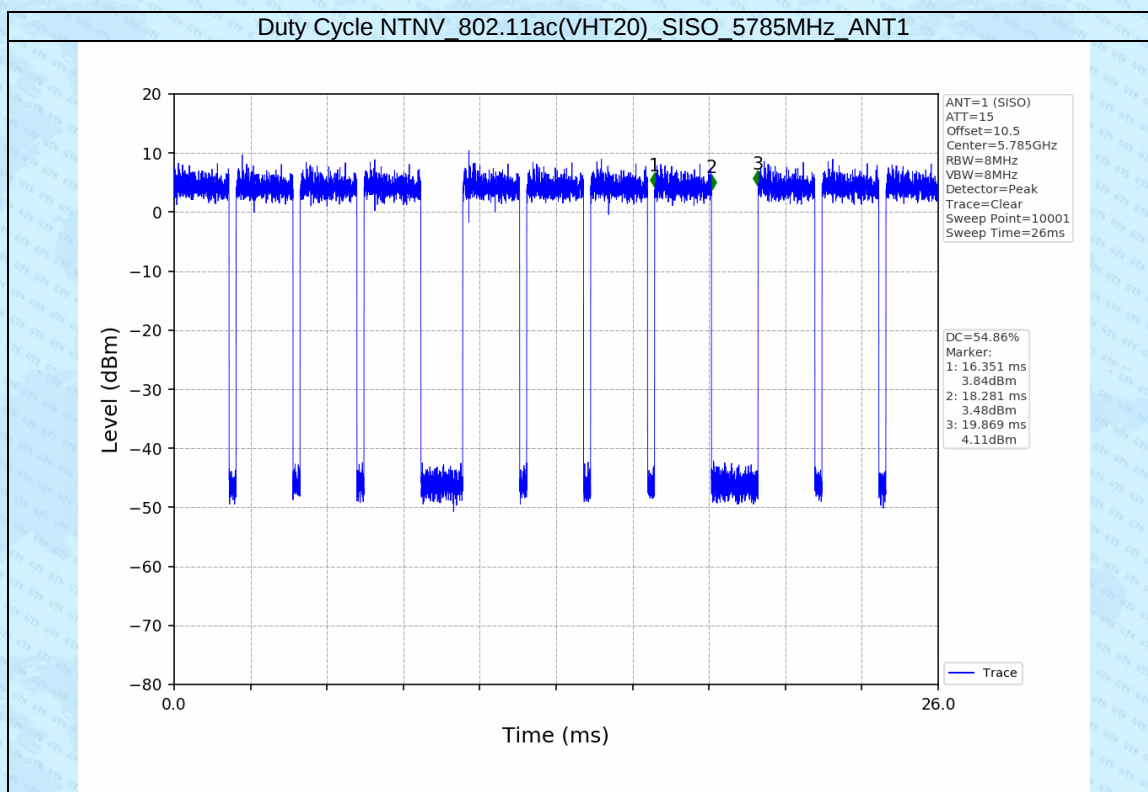
1.1 Test Result

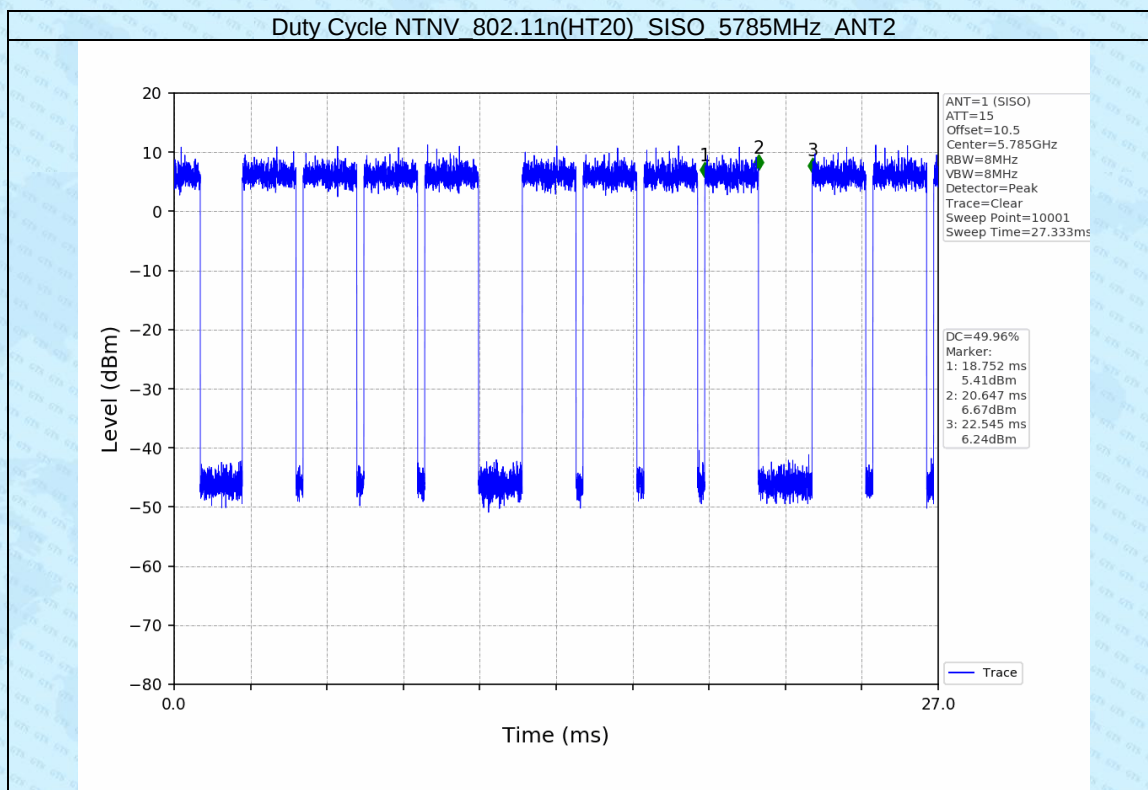
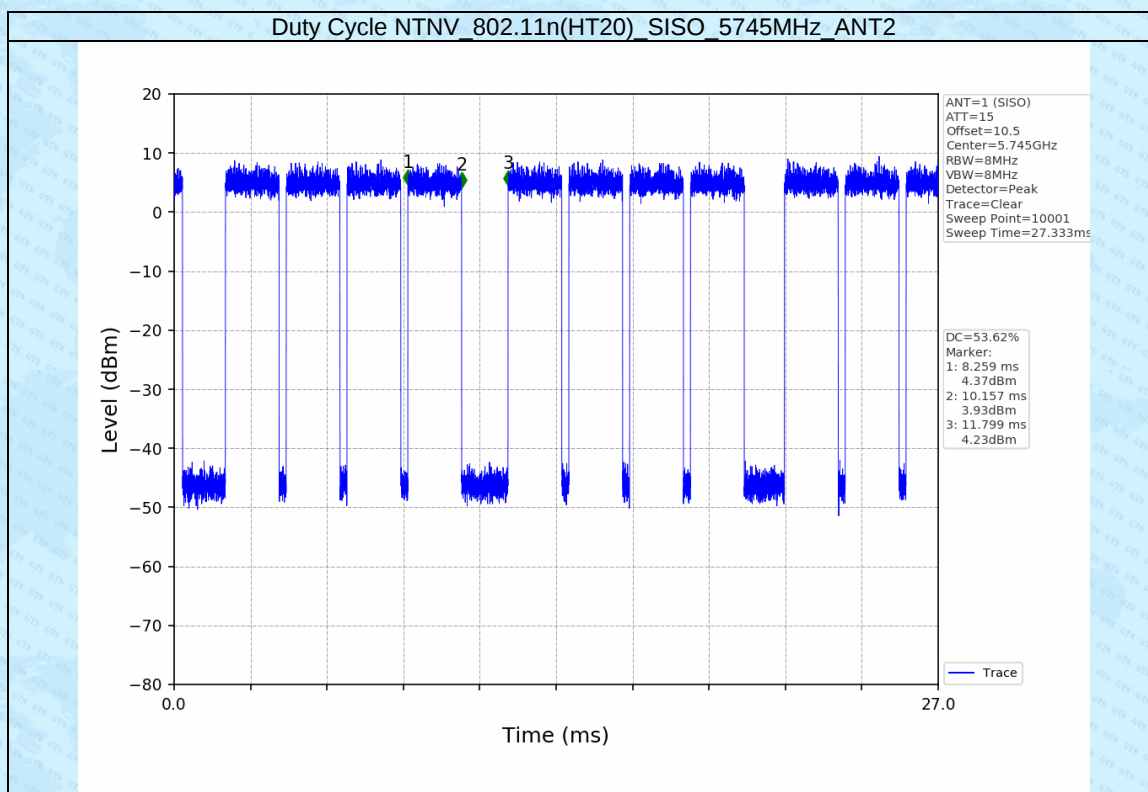
Test Mode	Channel Frequency (MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11n(HT20)	5745.0	SISO	1	1.898	2.149	88.32	0.54
	5785.0	SISO	1	1.895	3.539	53.55	2.71
	5805.0	SISO	1	1.898	3.510	54.07	2.67
802.11ac(VHT20)	5745.0	SISO	1	1.932	3.618	53.40	2.72
	5785.0	SISO	1	1.930	3.518	54.86	2.61
	5805.0	SISO	1	1.906	3.507	54.35	2.65
802.11n(HT20)	5745.0	SISO	1	1.898	3.540	53.62	2.71
	5785.0	SISO	1	1.895	3.793	49.96	3.01
	5805.0	SISO	1	1.921	4.194	45.80	3.39
802.11ac(VHT20)	5745.0	SISO	1	1.909	3.510	54.39	2.64
	5785.0	SISO	1	1.908	3.703	51.53	2.88
	5805.0	SISO	1	1.909	3.478	54.89	2.61

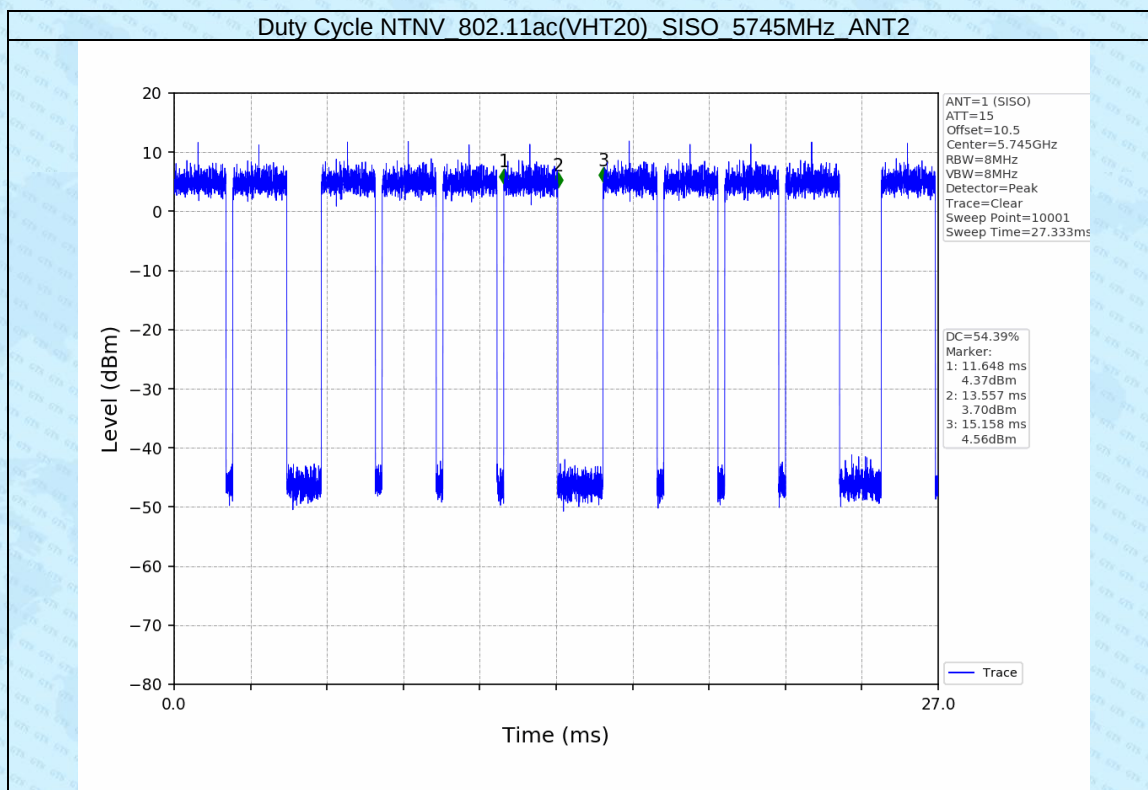
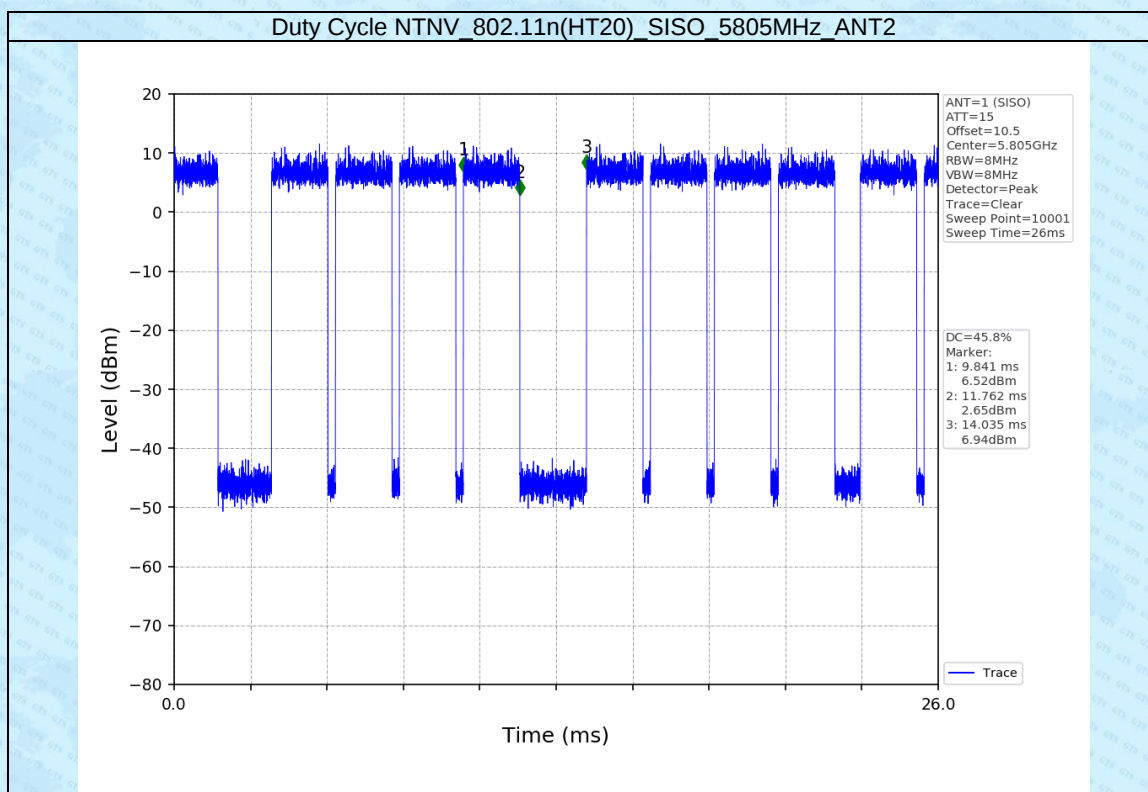
1.2 Test Graph

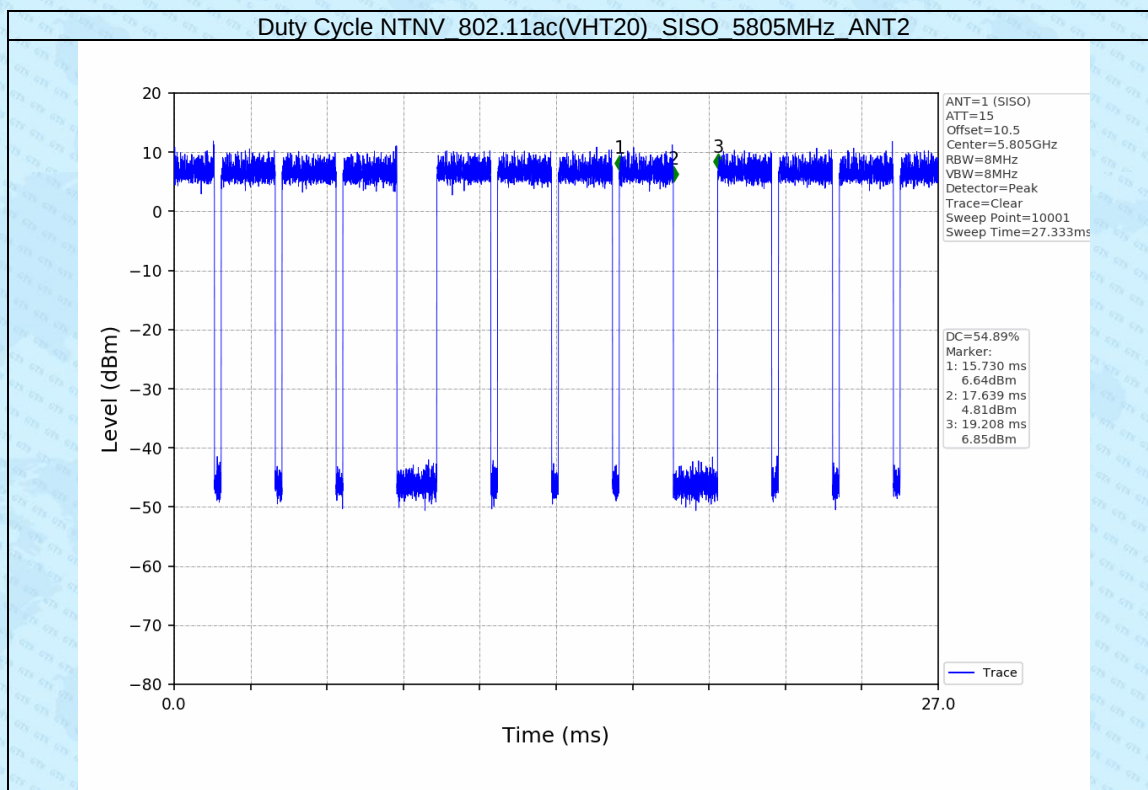
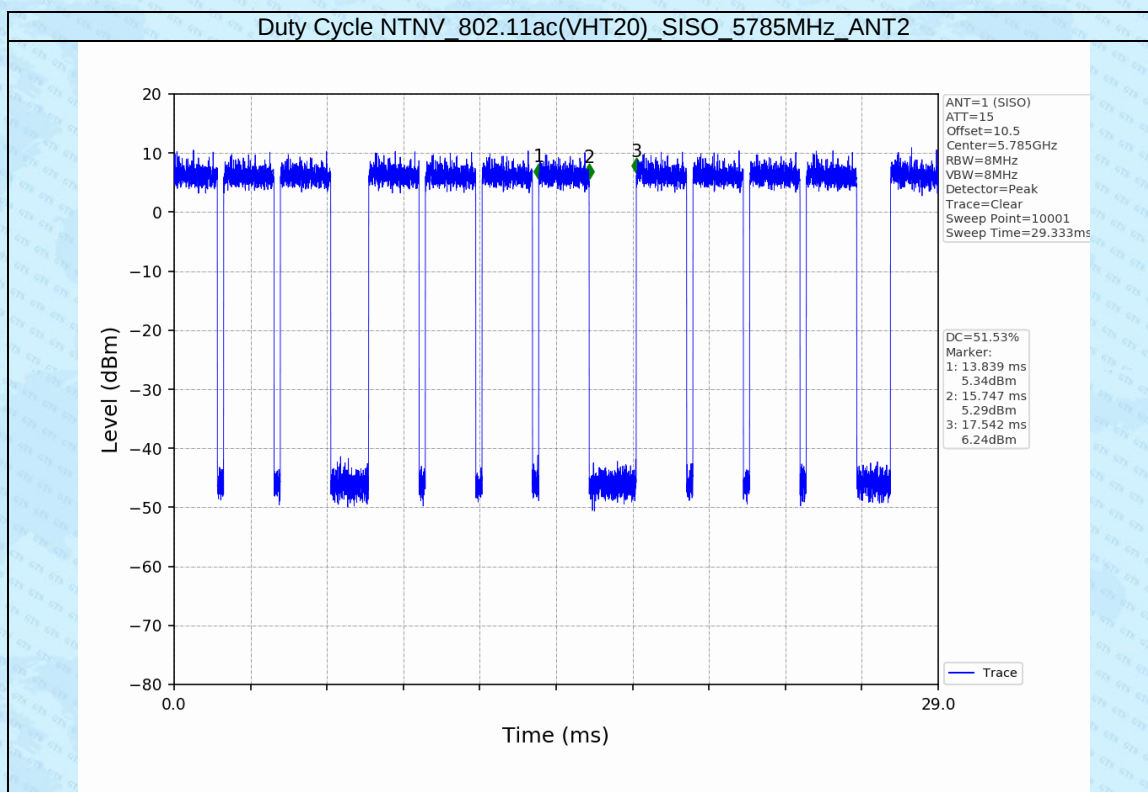












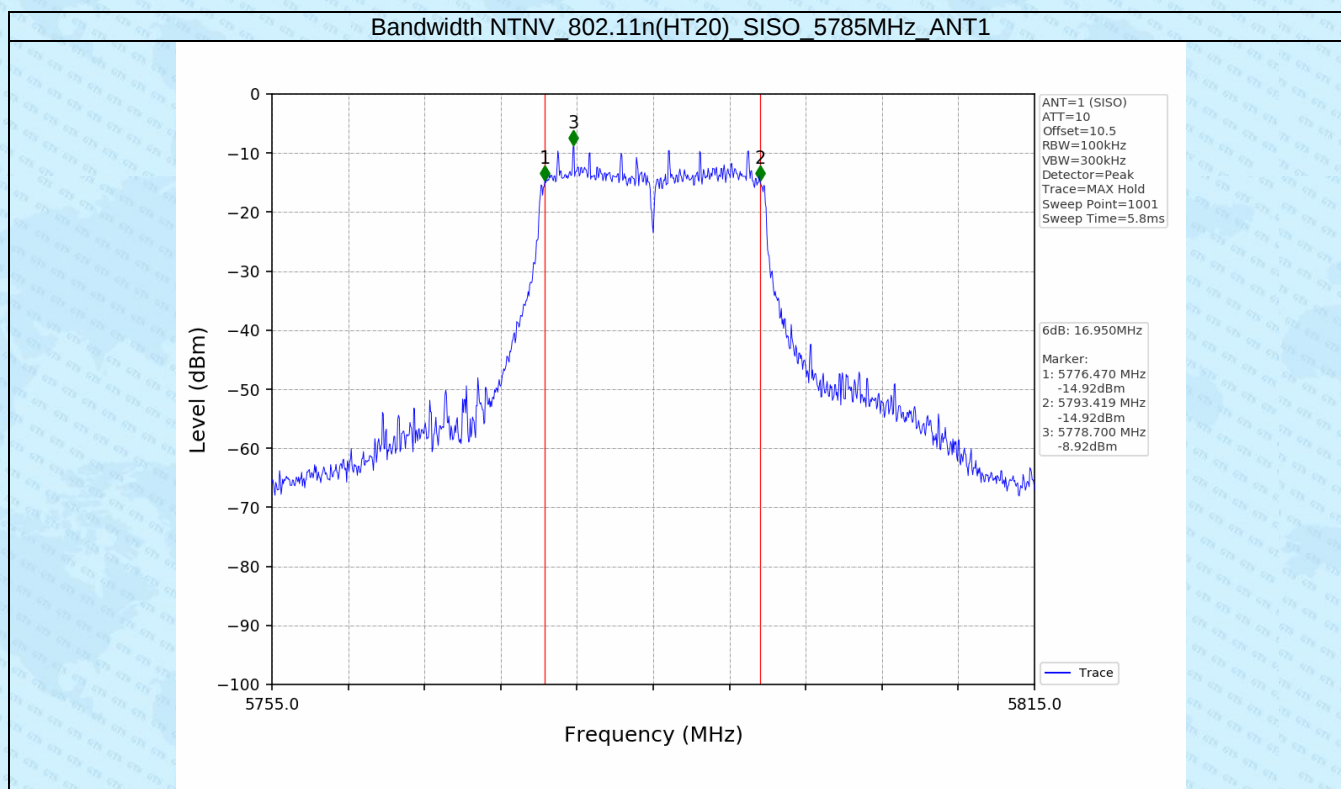
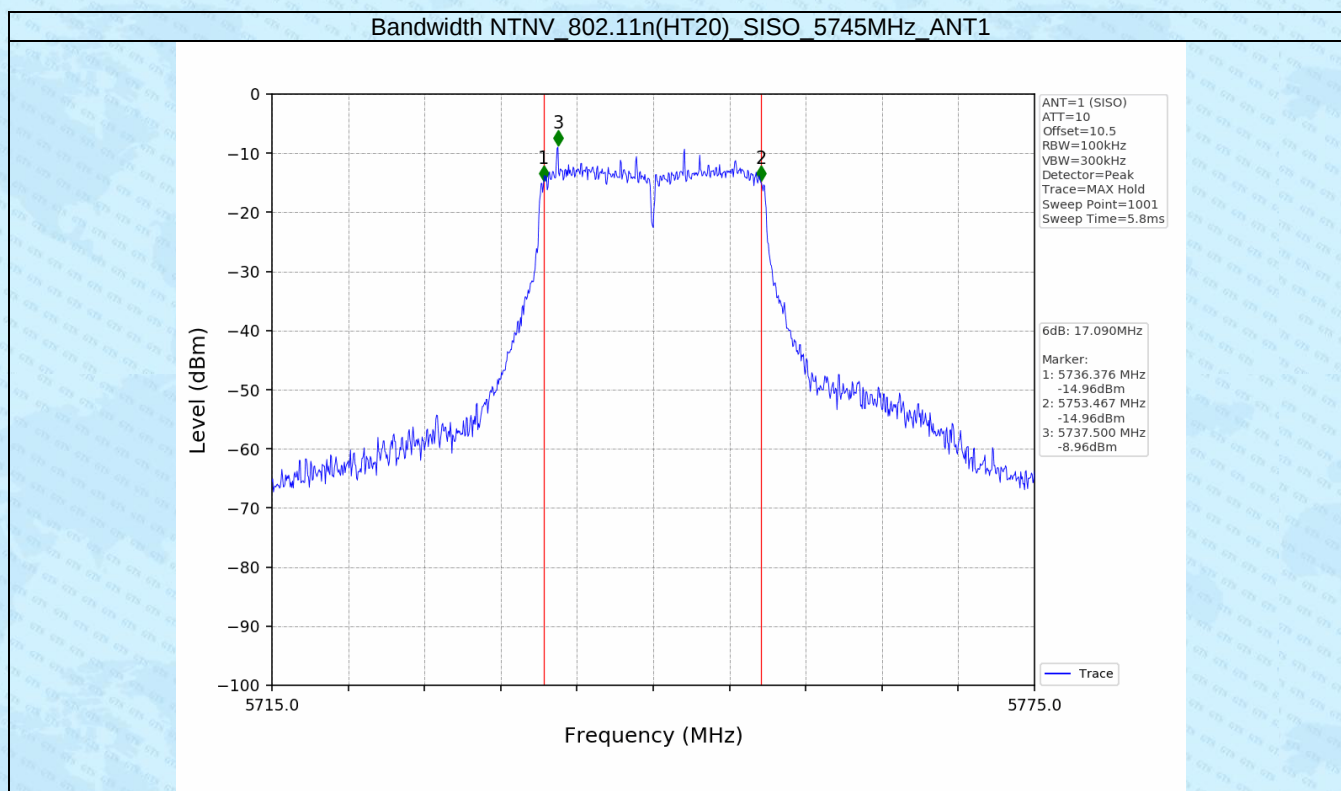
2. Bandwidth

2.1 Test Result

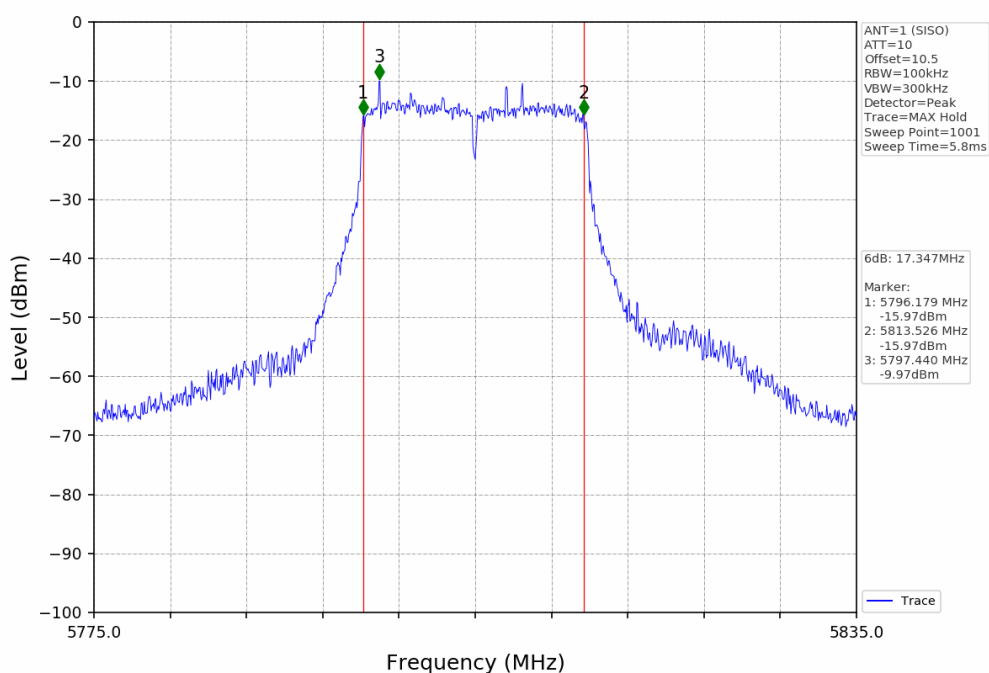
Test Mode	Frequency (MHz)	TX Type	ANT No.	Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11n(HT20)	5745.0	SISO	1	17.090	≥0.5	PASS
	5785.0	SISO	1	16.950	≥0.5	PASS
	5805.0	SISO	1	17.347	≥0.5	PASS
802.11ac(VHT20)	5745.0	SISO	1	17.605	≥0.5	PASS
	5785.0	SISO	1	17.566	≥0.5	PASS
	5805.0	SISO	1	17.381	≥0.5	PASS
802.11n(HT20)	5745.0	SISO	2	17.595	≥0.5	PASS
	5785.0	SISO	2	16.597	≥0.5	PASS
	5805.0	SISO	2	17.617	≥0.5	PASS
802.11ac(VHT20)	5745.0	SISO	2	17.345	≥0.5	PASS
	5785.0	SISO	2	16.967	≥0.5	PASS
	5805.0	SISO	2	16.971	≥0.5	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11n(HT20)	5745.0	SISO	1	18.337	Only for Report Use
	5785.0	SISO	1	18.244	Only for Report Use
	5805.0	SISO	1	18.155	Only for Report Use
802.11ac(VHT20)	5745.0	SISO	1	18.154	Only for Report Use
	5785.0	SISO	1	18.323	Only for Report Use
	5805.0	SISO	1	18.257	Only for Report Use
802.11n(HT20)	5745.0	SISO	2	18.257	Only for Report Use
	5785.0	SISO	2	18.240	Only for Report Use
	5805.0	SISO	2	18.204	Only for Report Use
802.11ac(VHT20)	5745.0	SISO	2	18.133	Only for Report Use
	5785.0	SISO	2	18.158	Only for Report Use
	5805.0	SISO	2	18.235	Only for Report Use

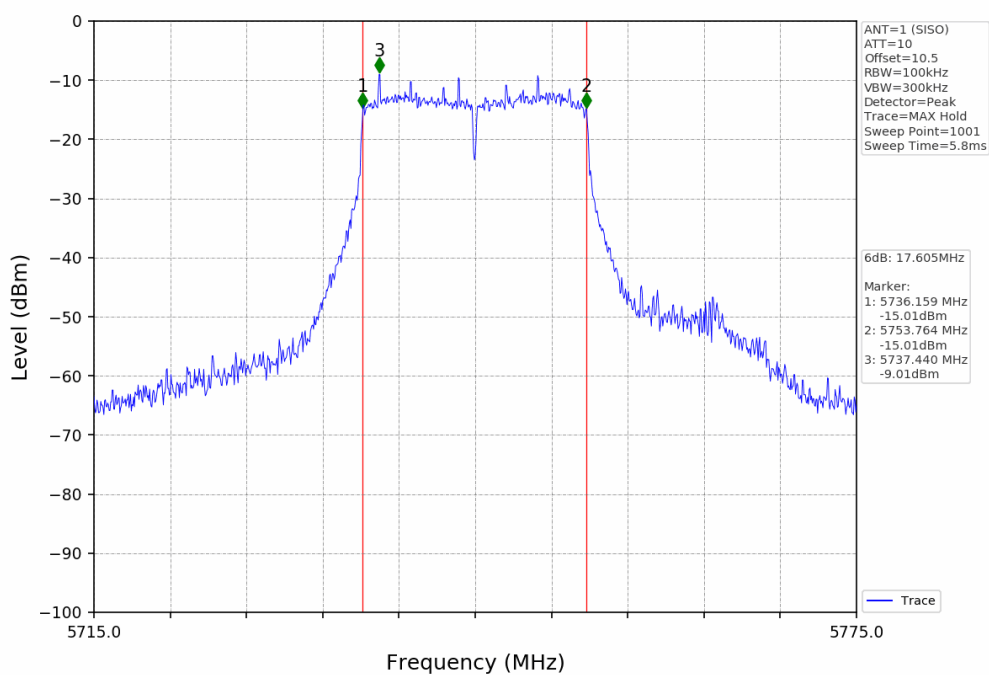
2.2 Test Graph - Emission Bandwidth



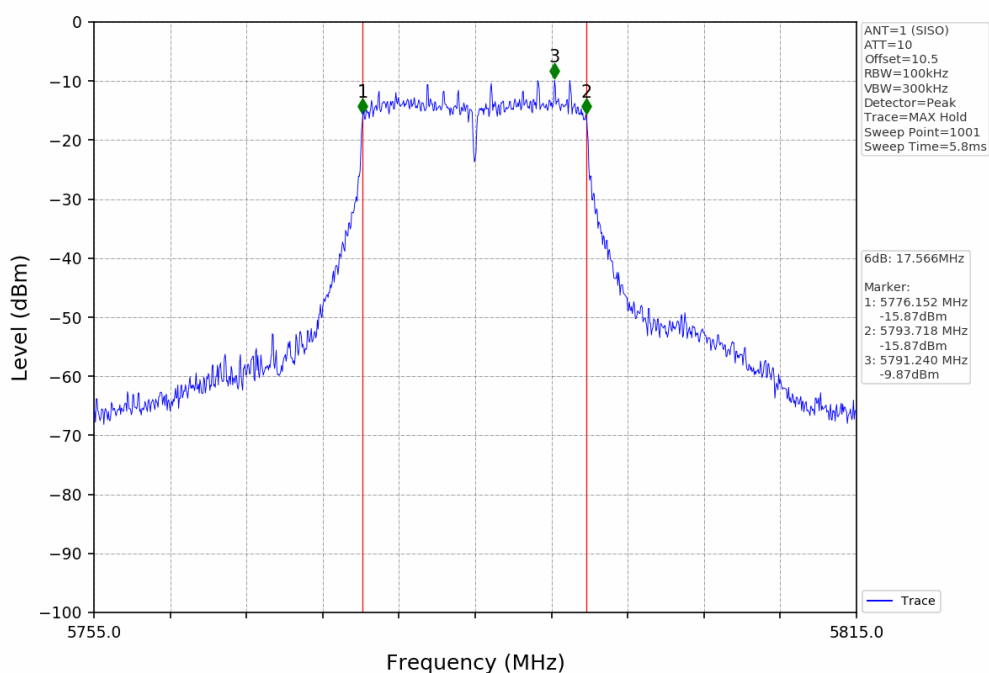
Bandwidth NTNV_802.11n(HT20)_SISO_5805MHz_ANT1



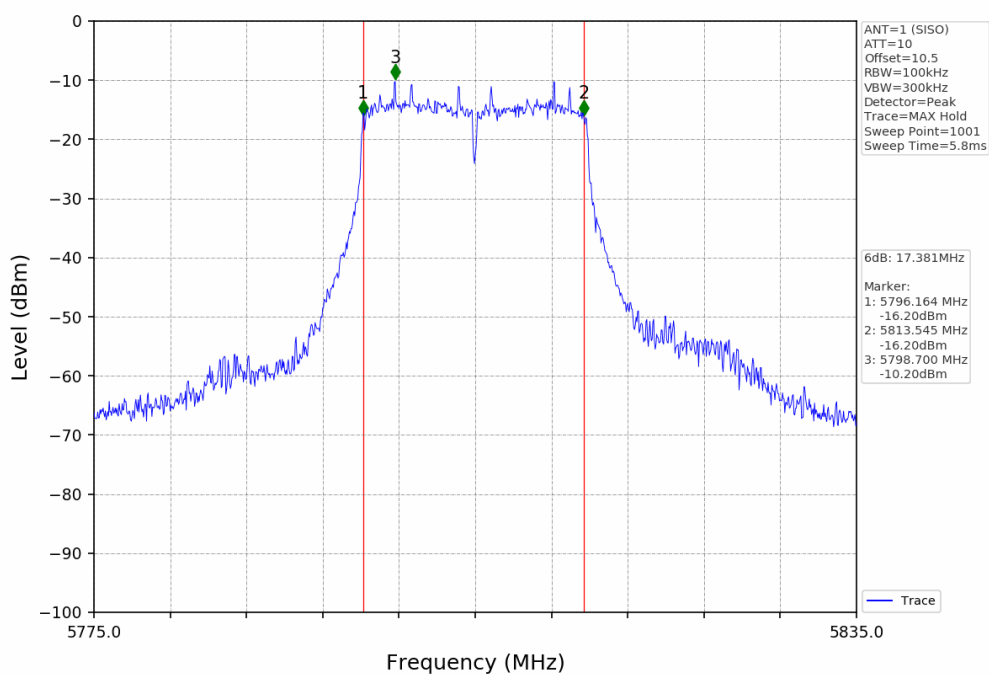
Bandwidth NTNV_802.11ac(VHT20)_SISO_5745MHz_ANT1



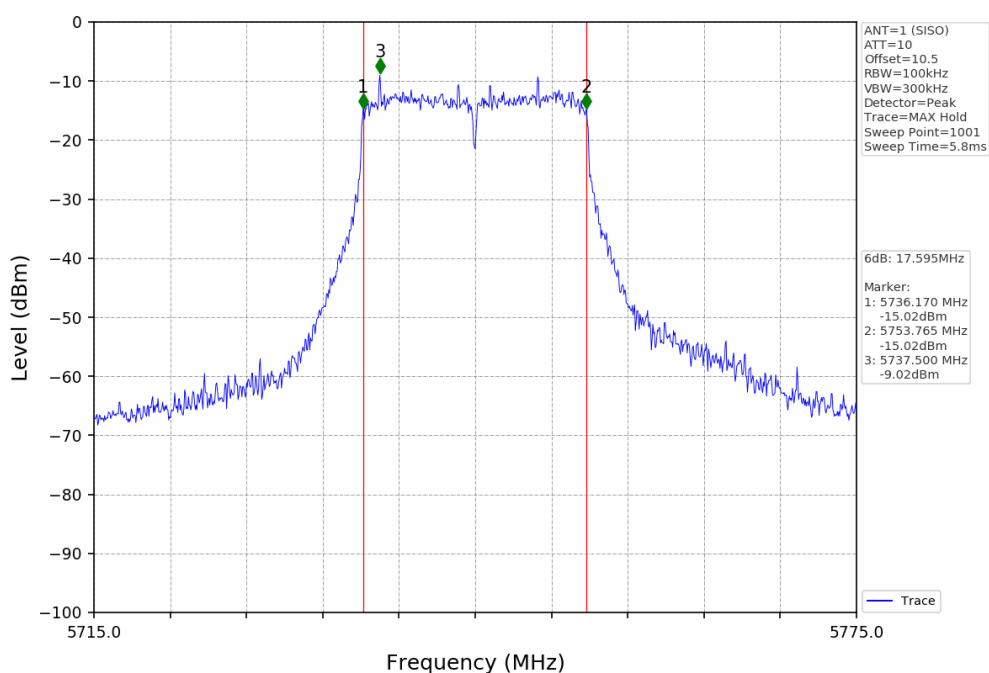
Bandwidth NTN 802.11ac(VHT20) SISO 5785MHz ANT1



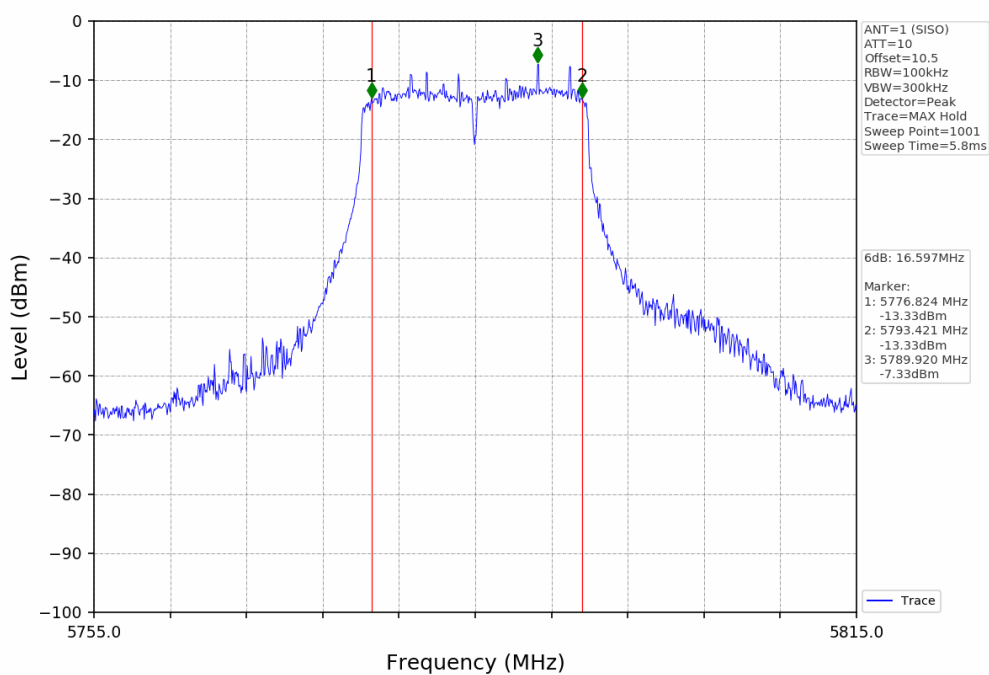
Bandwidth NTN 802.11ac(VHT20) SISO 5805MHz ANT1



Bandwidth NTNV_802.11n(HT20)_SISO_5745MHz_ANT2



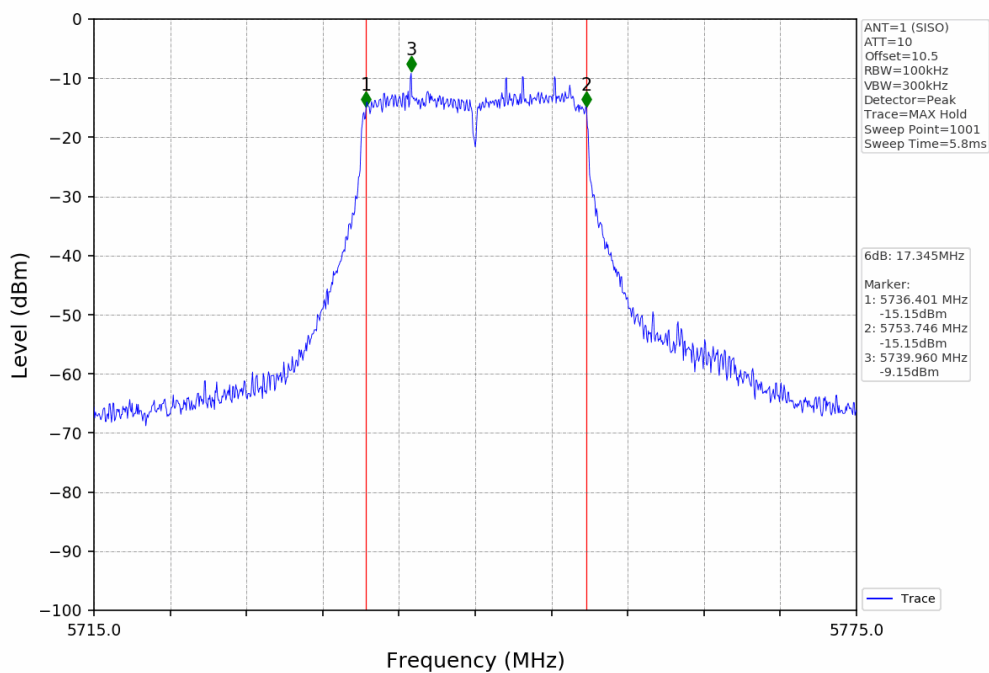
Bandwidth NTNV_802.11n(HT20)_SISO_5785MHz_ANT2



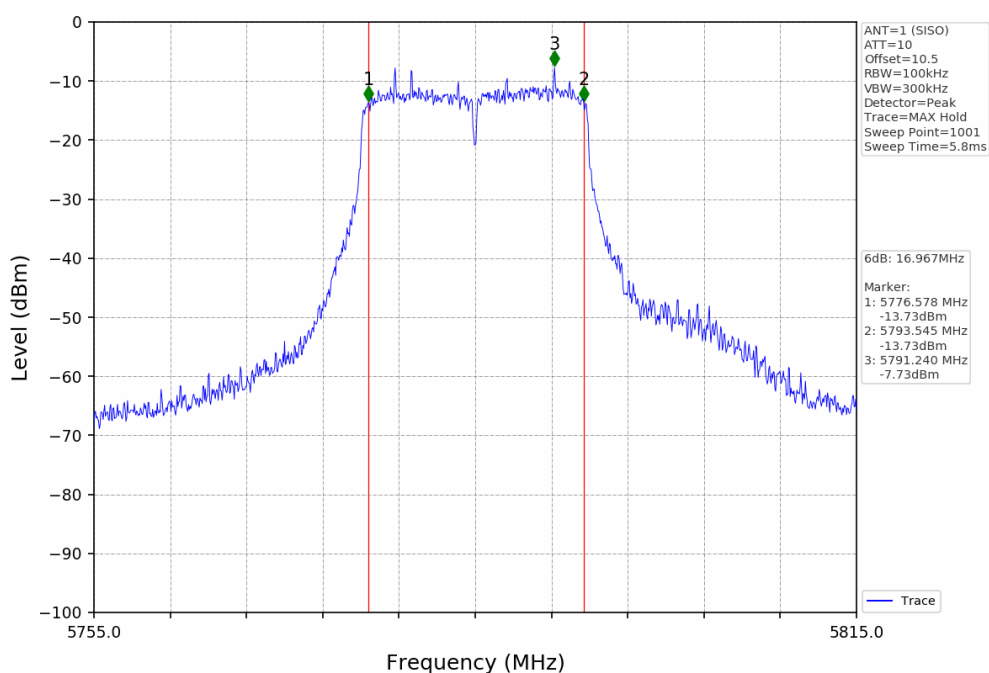
Bandwidth NTNV 802.11n(HT20) SISO 5805MHz ANT2



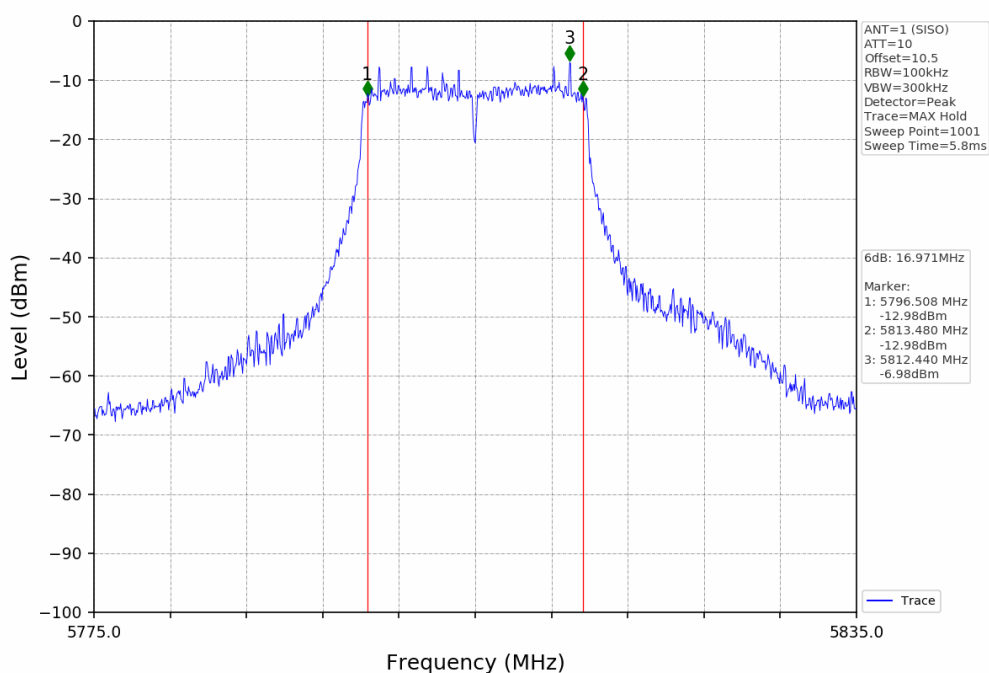
Bandwidth NTNV 802.11ac(VHT20) SISO 5745MHz ANT2



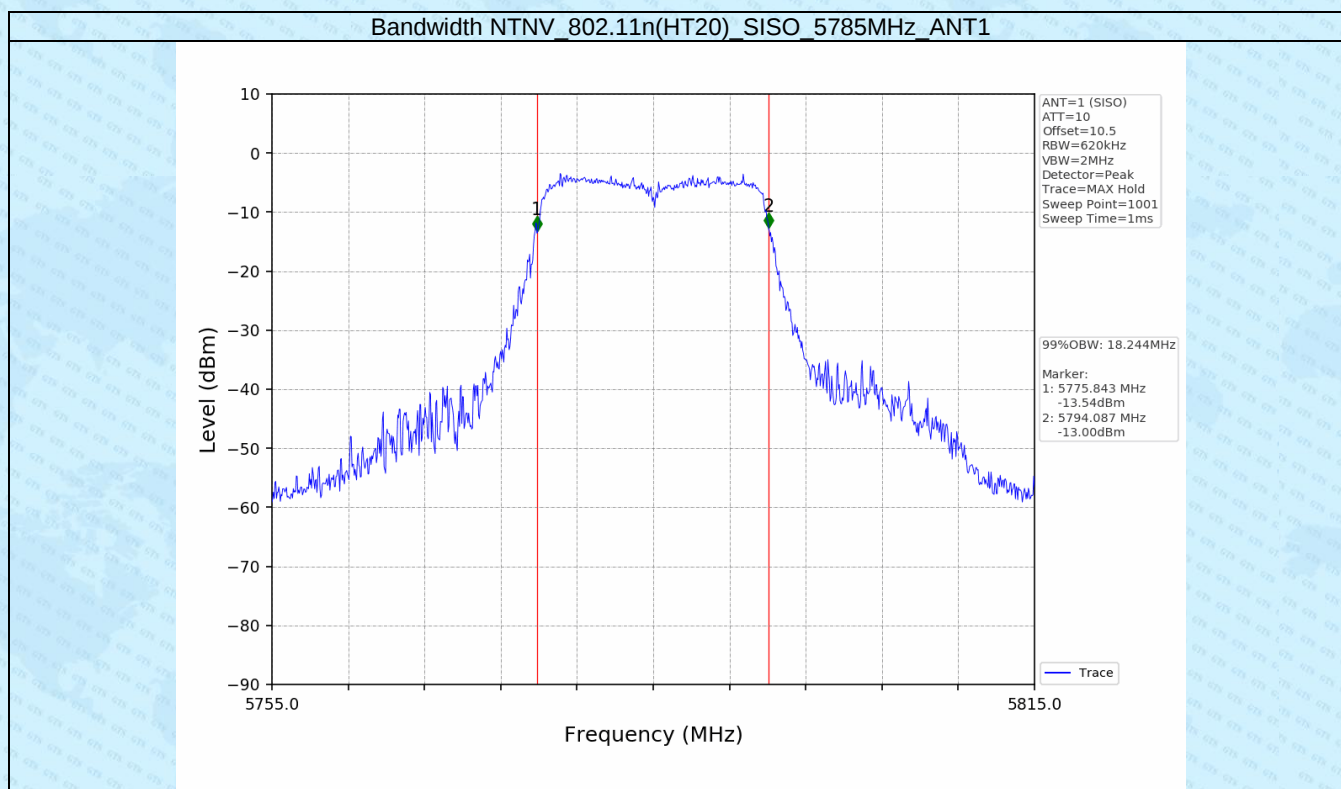
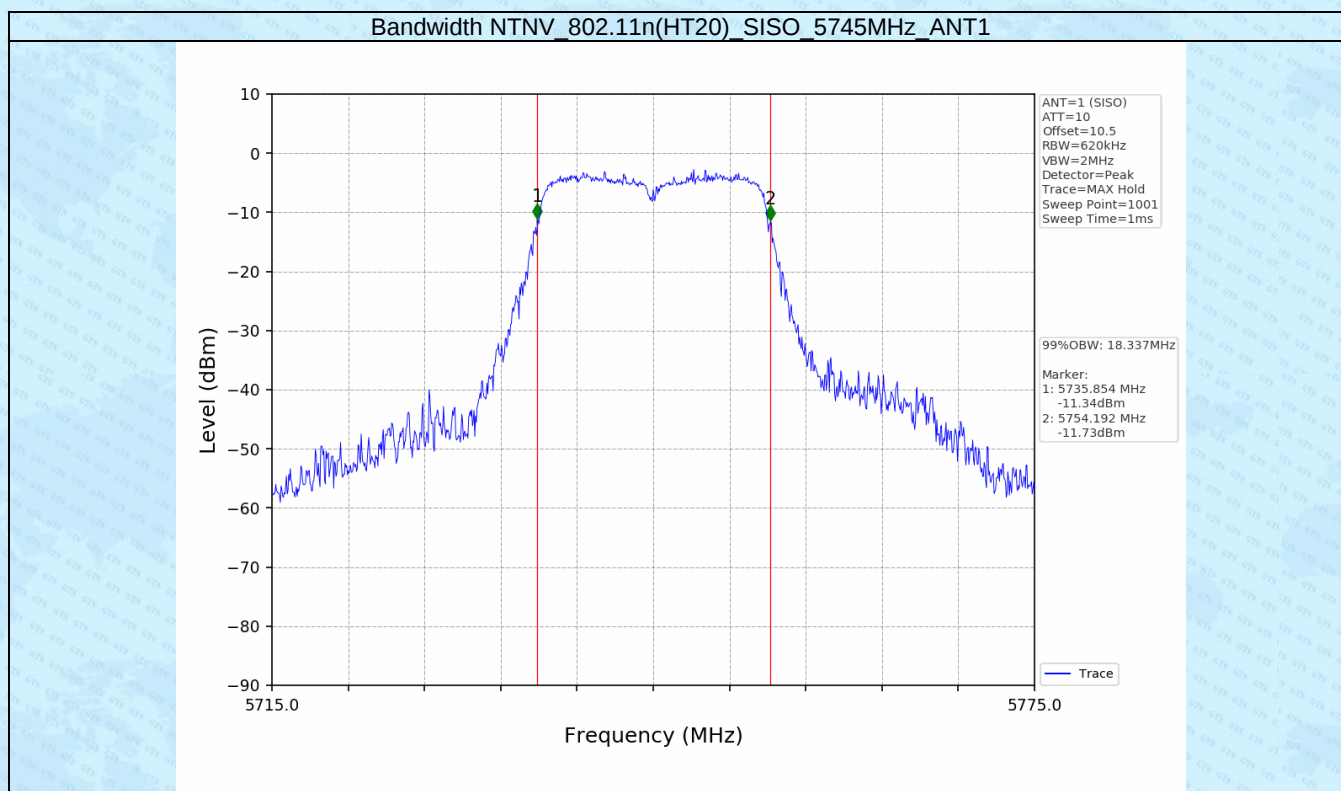
Bandwidth NTN 802.11ac(VHT20) SISO 5785MHz ANT2



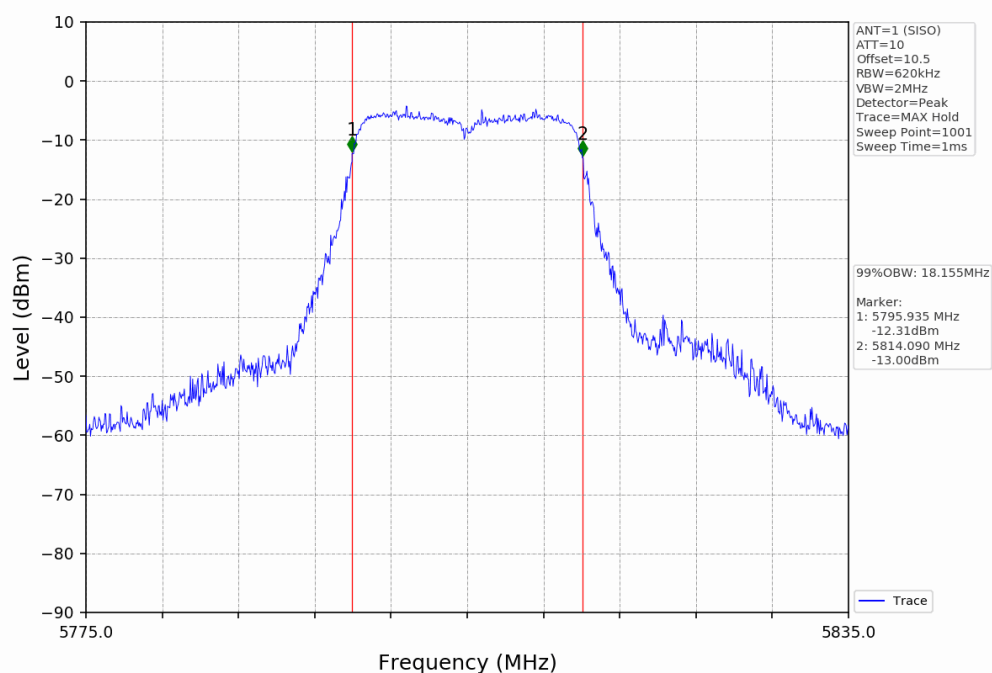
Bandwidth NTN 802.11ac(VHT20) SISO 5805MHz ANT2



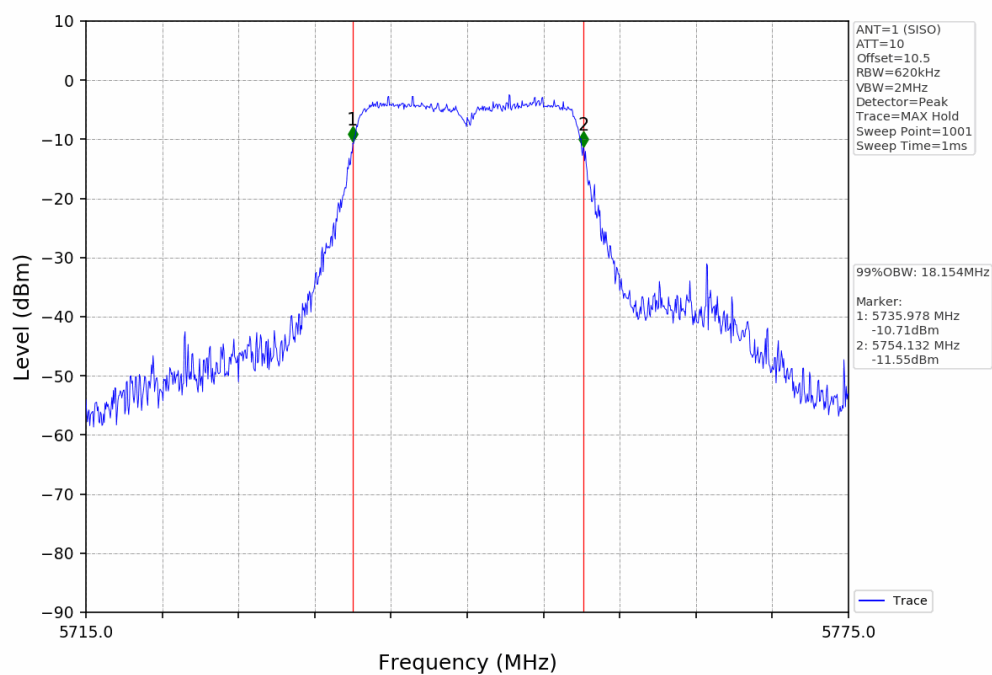
2.3 Test Graph - 99% Occupied Bandwidth



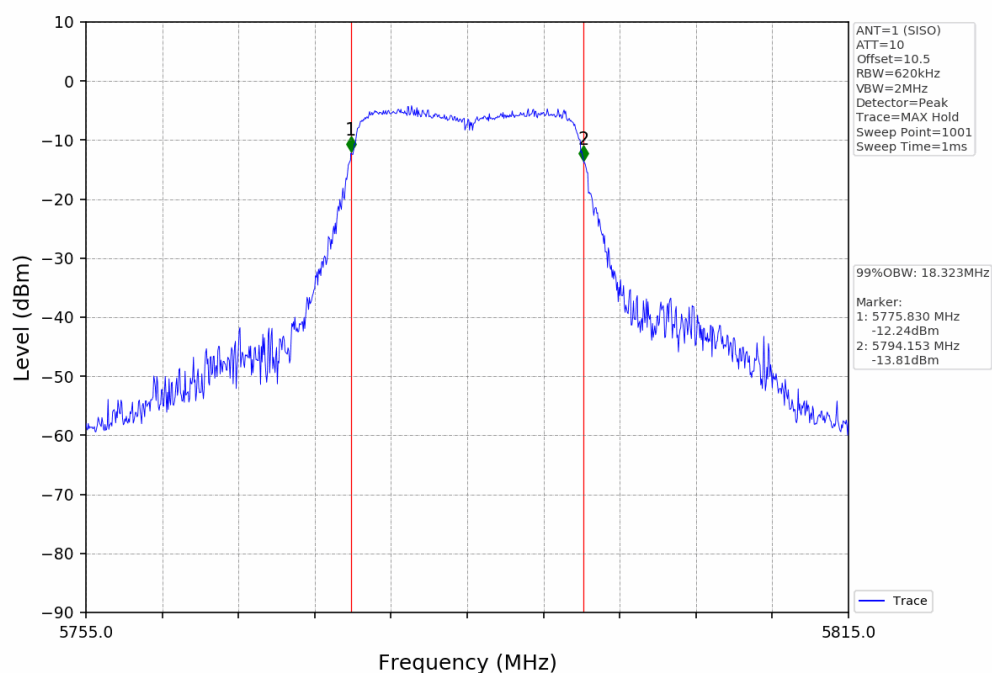
Bandwidth NTNV 802.11n(HT20) SISO 5805MHz ANT1



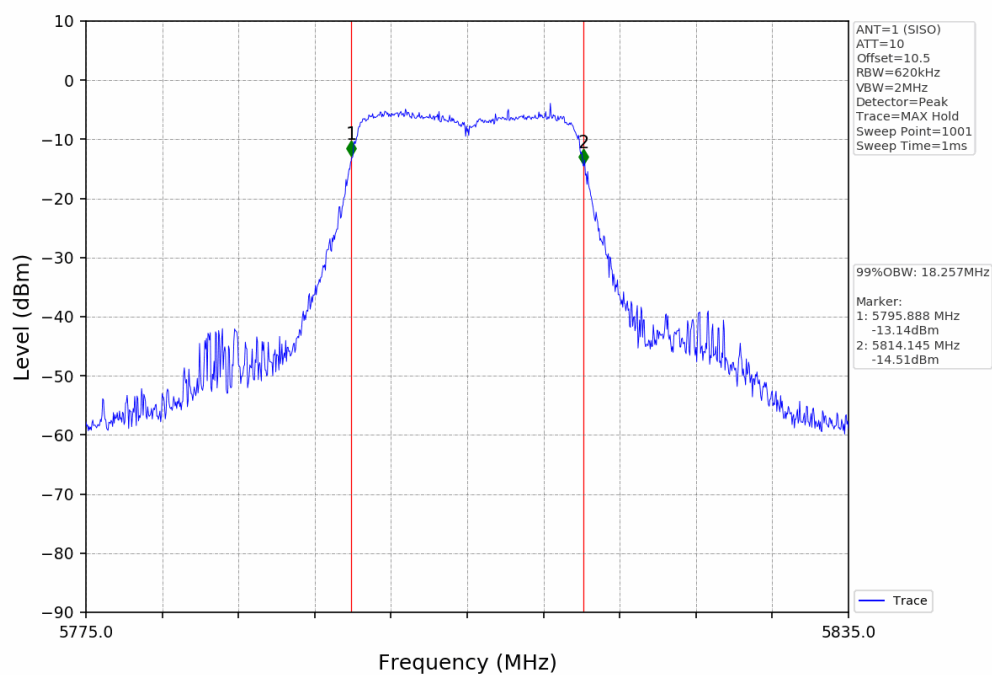
Bandwidth NTNV 802.11ac(VHT20) SISO 5745MHz ANT1



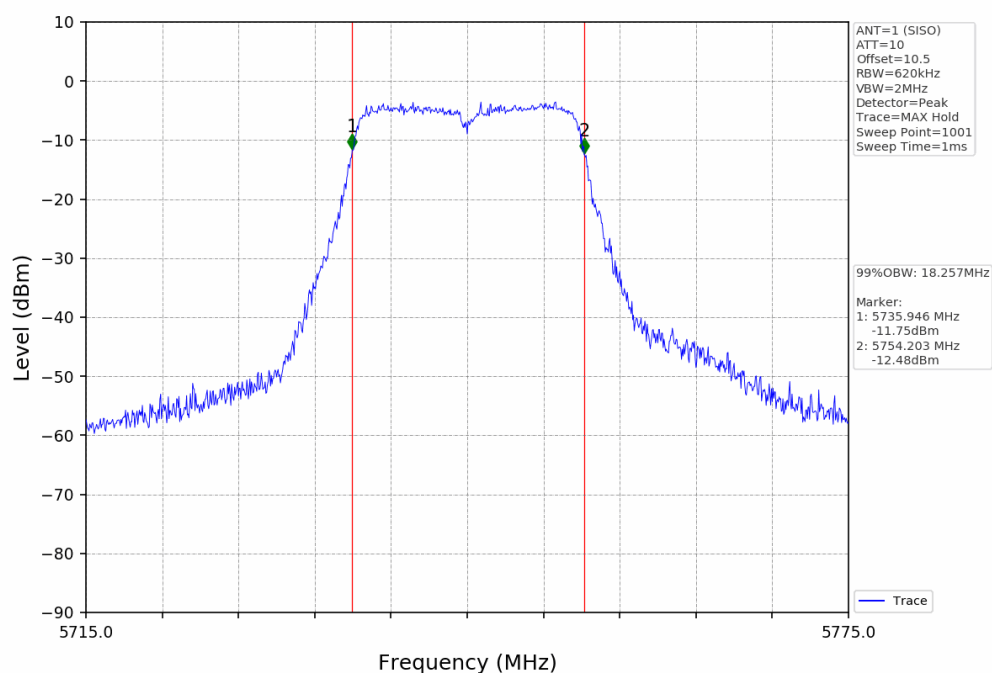
Bandwidth NTN 802.11ac(VHT20) SISO 5785MHz ANT1



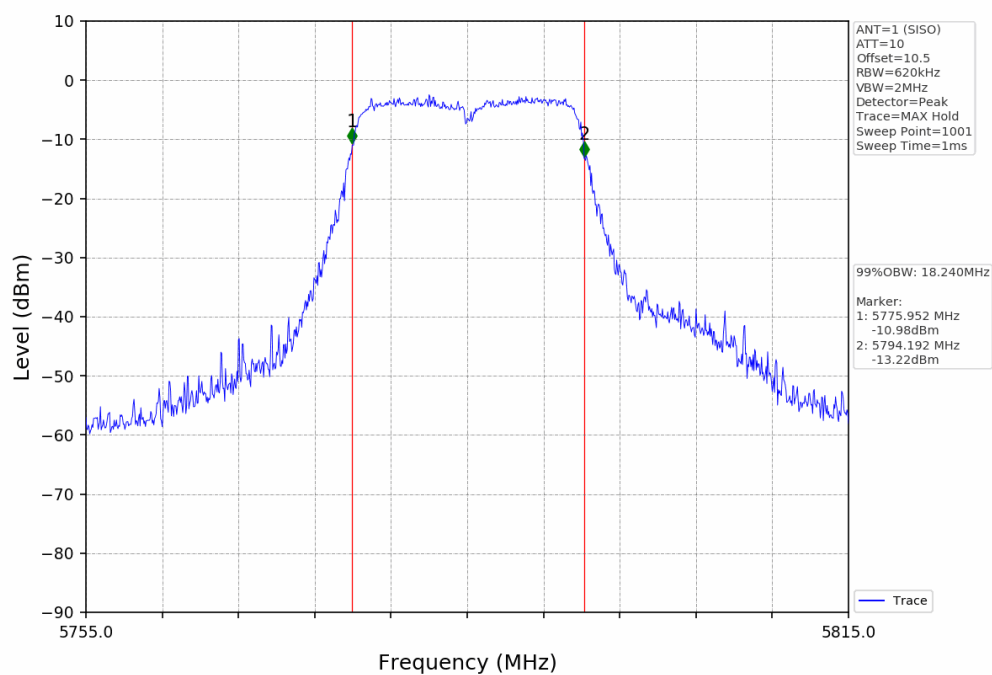
Bandwidth NTN 802.11ac(VHT20) SISO 5805MHz ANT1



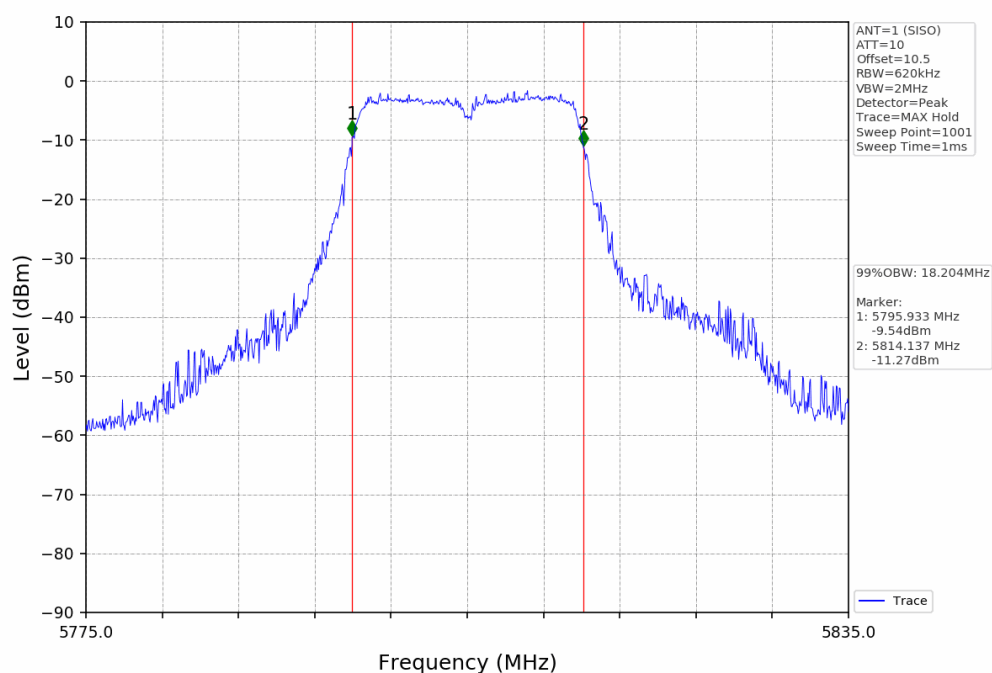
Bandwidth NTNV_802.11n(HT20)_SISO_5745MHz_ANT2



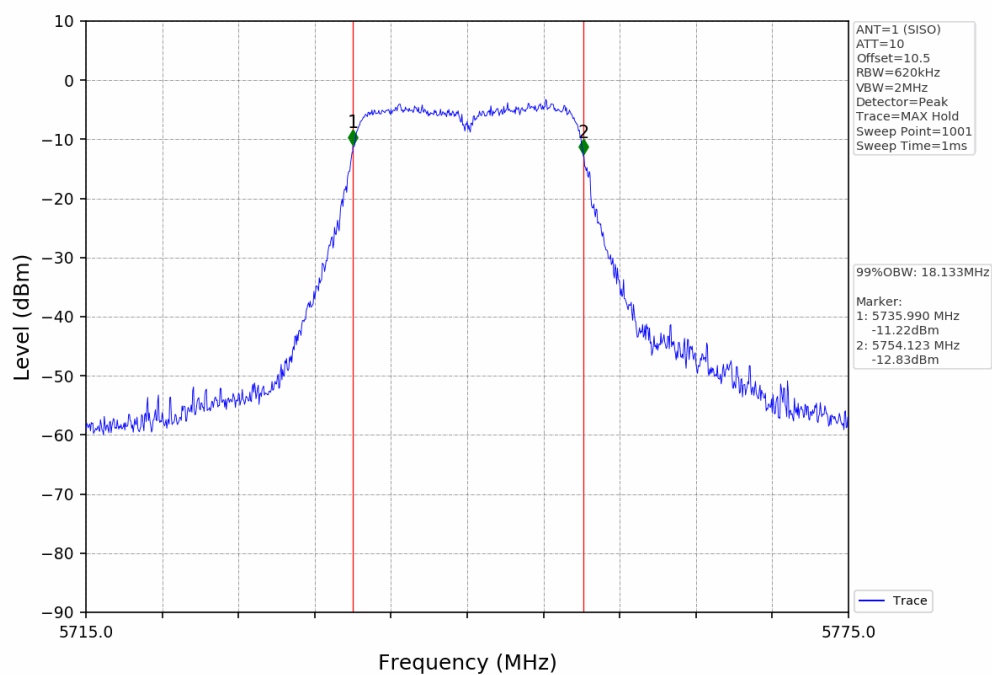
Bandwidth NTNV_802.11n(HT20)_SISO_5785MHz_ANT2



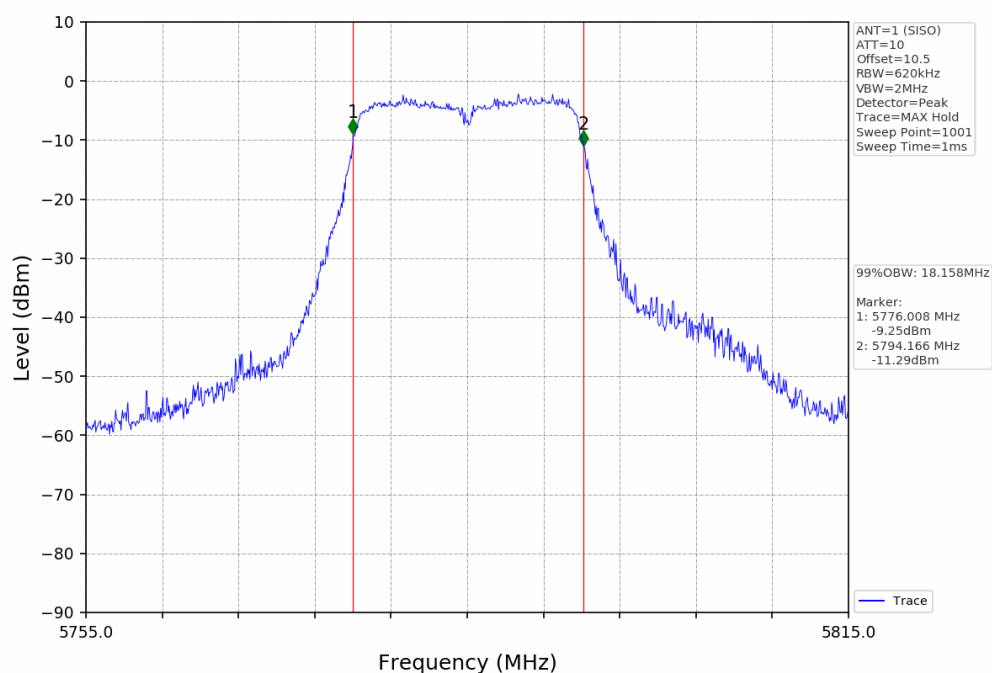
Bandwidth NTN 802.11n(HT20) SISO 5805MHz ANT2



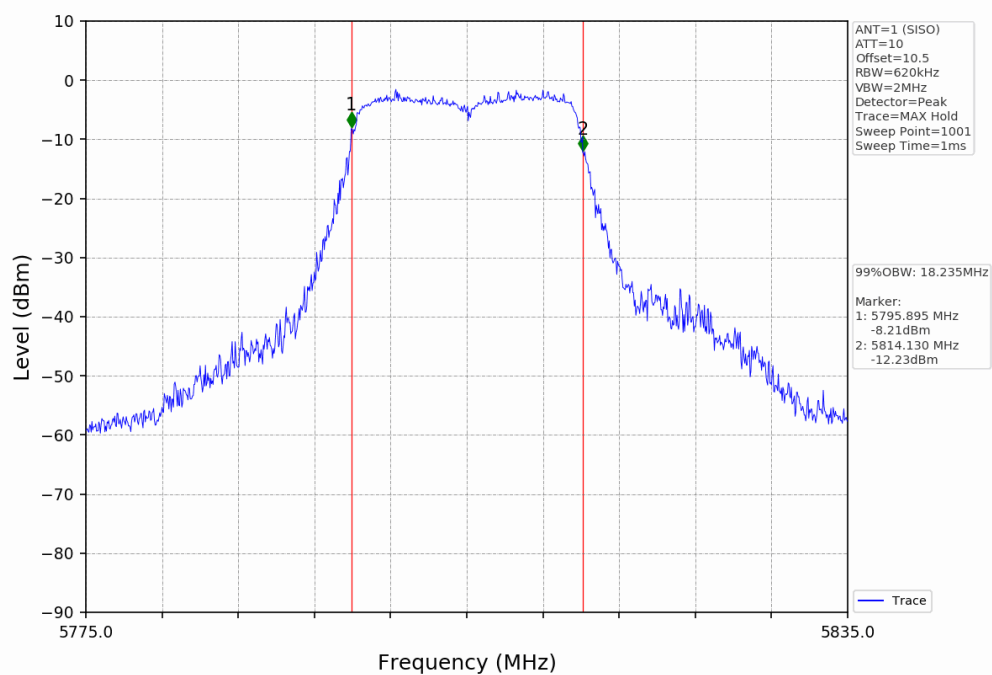
Bandwidth NTN 802.11ac(VHT20) SISO 5745MHz ANT2



Bandwidth NTN 802.11ac(VHT20) SISO 5785MHz ANT2



Bandwidth NTN 802.11ac(VHT20) SISO 5805MHz ANT2



3. Maximum Conducted Output Power

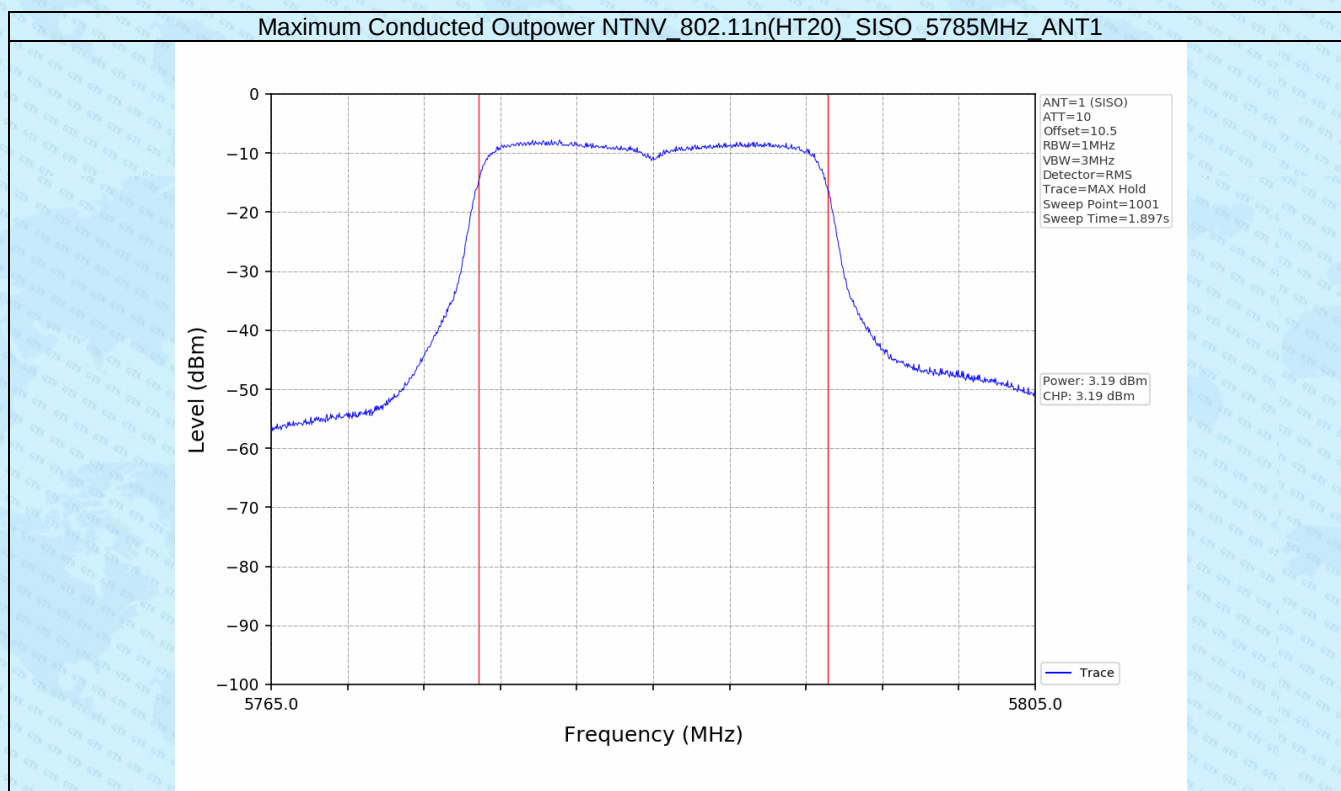
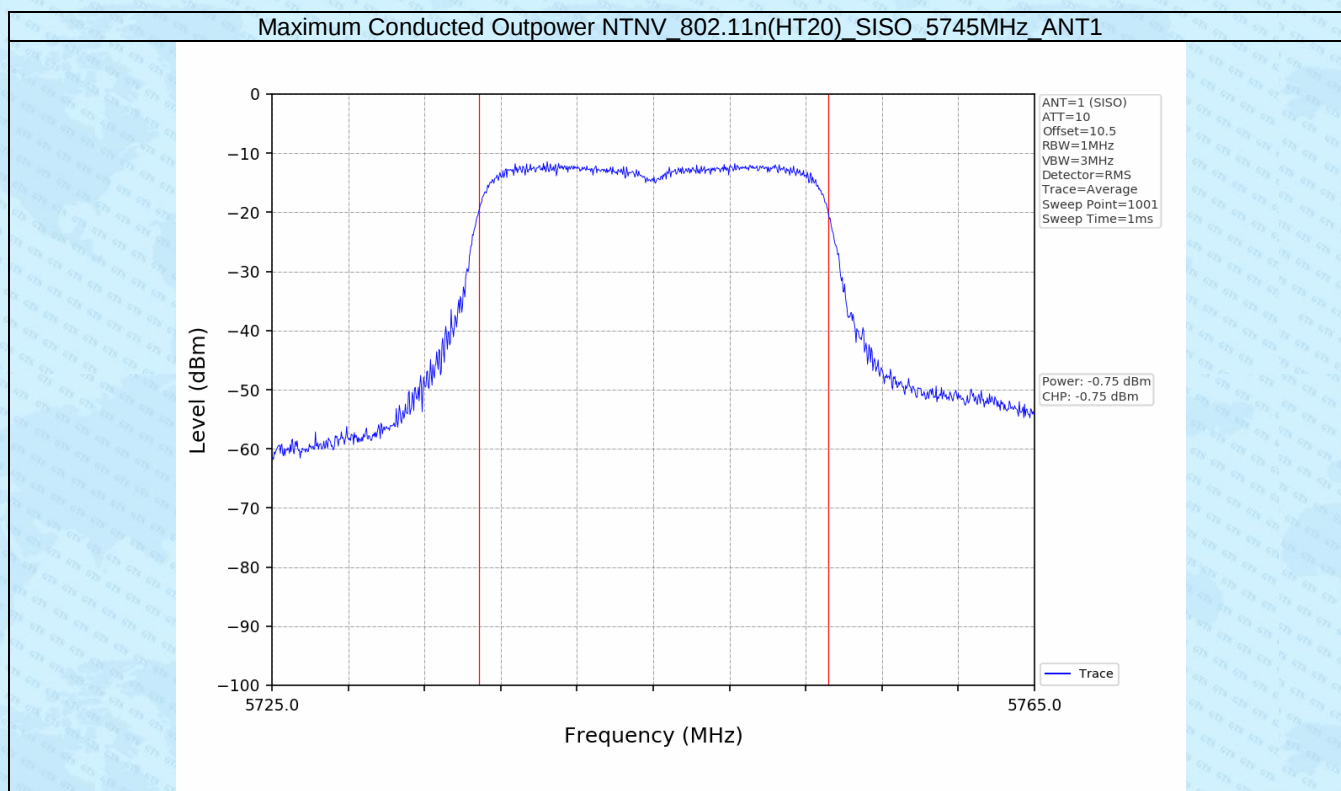
3.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)	Limit (dBm)	Verdict
			Ant 1		
802.11n(HT20)	5745.0	SISO	-0.75	≤30.00	PASS
	5785.0	SISO	3.19	≤30.00	PASS
	5805.0	SISO	1.85	≤30.00	PASS
802.11ac(VHT20)	5745.0	SISO	3.08	≤30.00	PASS
	5785.0	SISO	2.41	≤30.00	PASS
	5805.0	SISO	1.79	≤30.00	PASS

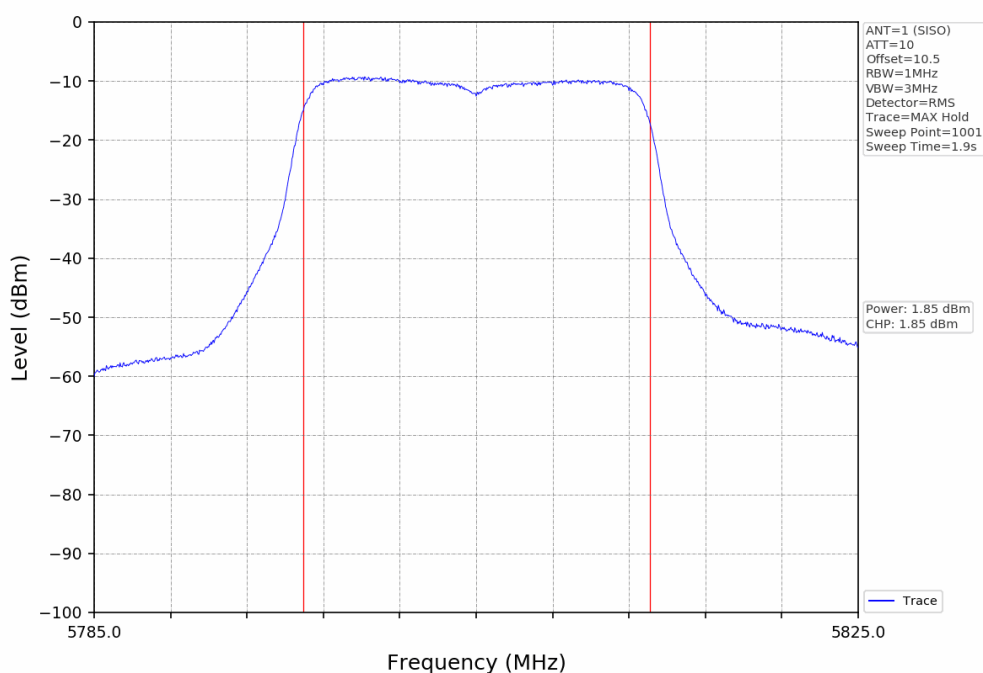
Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)	Limit (dBm)	Verdict
			Ant 2		
802.11n(HT20)	5745.0	SISO	3.51	≤30.00	PASS
	5785.0	SISO	4.22	≤30.00	PASS
	5805.0	SISO	5.22	≤30.00	PASS
802.11ac(VHT20)	5745.0	SISO	2.99	≤30.00	PASS
	5785.0	SISO	4.19	≤30.00	PASS
	5805.0	SISO	4.83	≤30.00	PASS

Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)	Limit (dBm)	Verdict
802.11n(HT20)	5745.0	MIMO	4.89	≤30.00	PASS
	5785.0	MIMO	6.75	≤30.00	PASS
	5805.0	MIMO	6.86	≤30.00	PASS
802.11ac(VHT20)	5745.0	MIMO	6.05	≤30.00	PASS
	5785.0	MIMO	6.40	≤30.00	PASS
	5805.0	MIMO	6.58	≤30.00	PASS

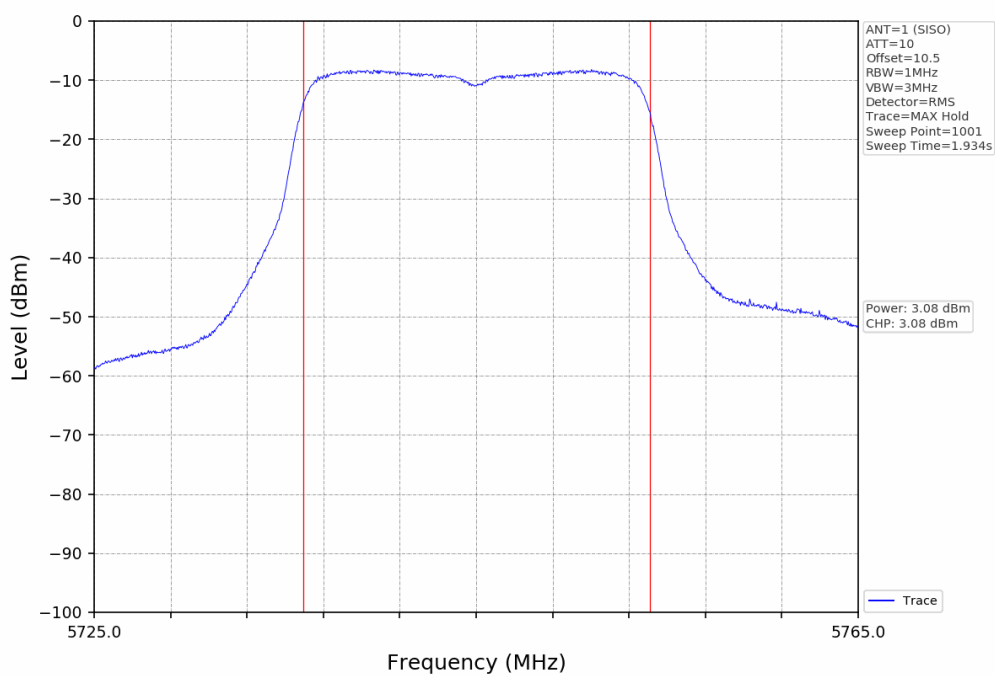
3.2 Test Graph



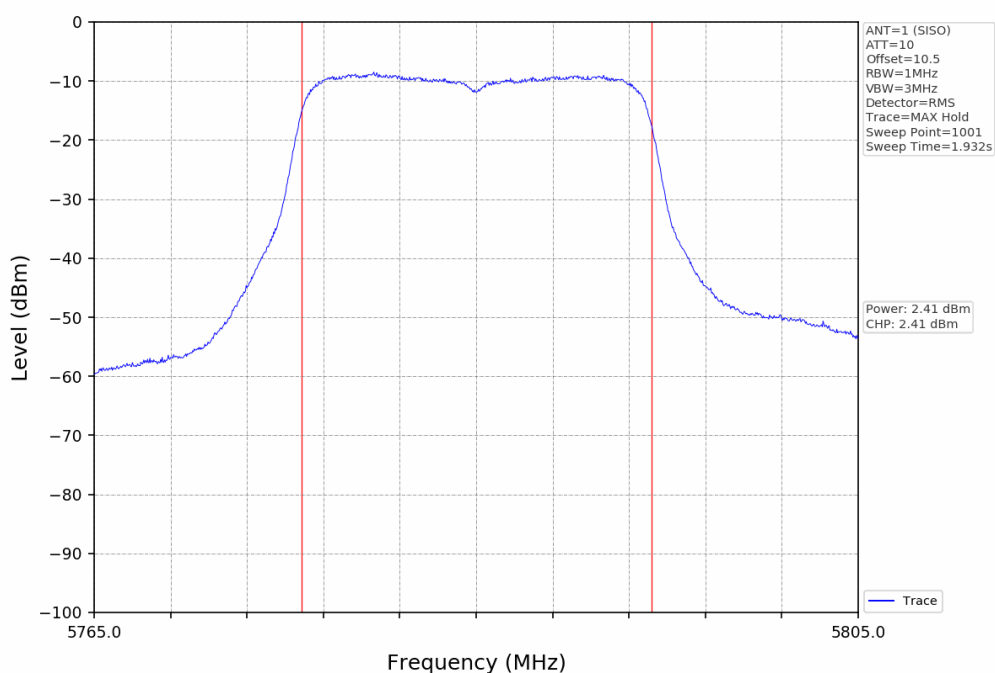
Maximum Conducted Outpower NTNV_802.11n(HT20)_SISO_5805MHz_ANT1



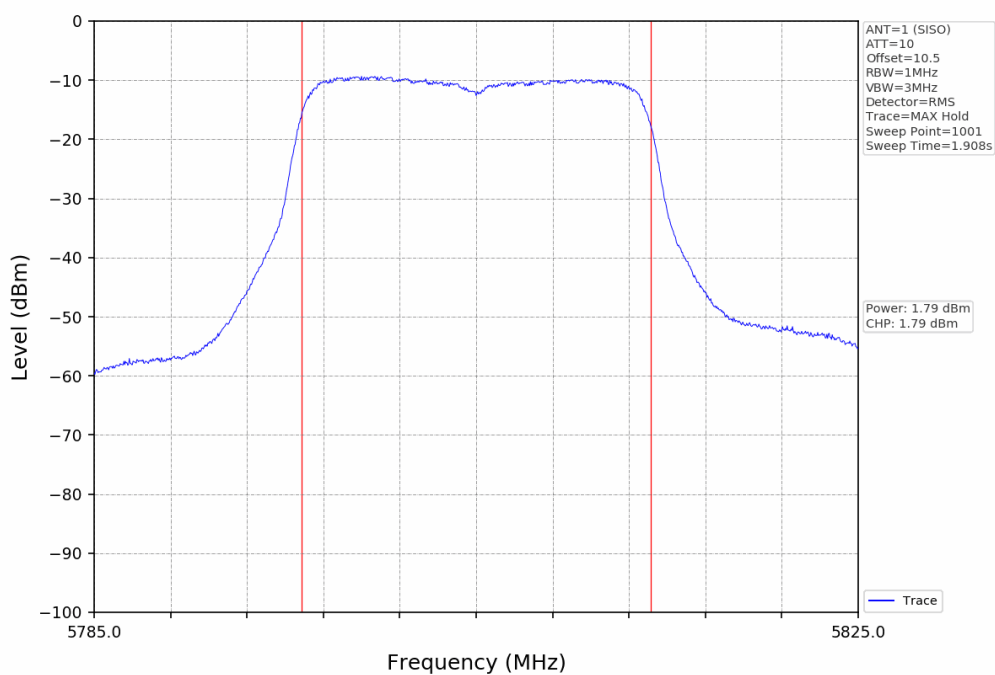
Maximum Conducted Outpower NTNV_802.11ac(VHT20)_SISO_5745MHz_ANT1



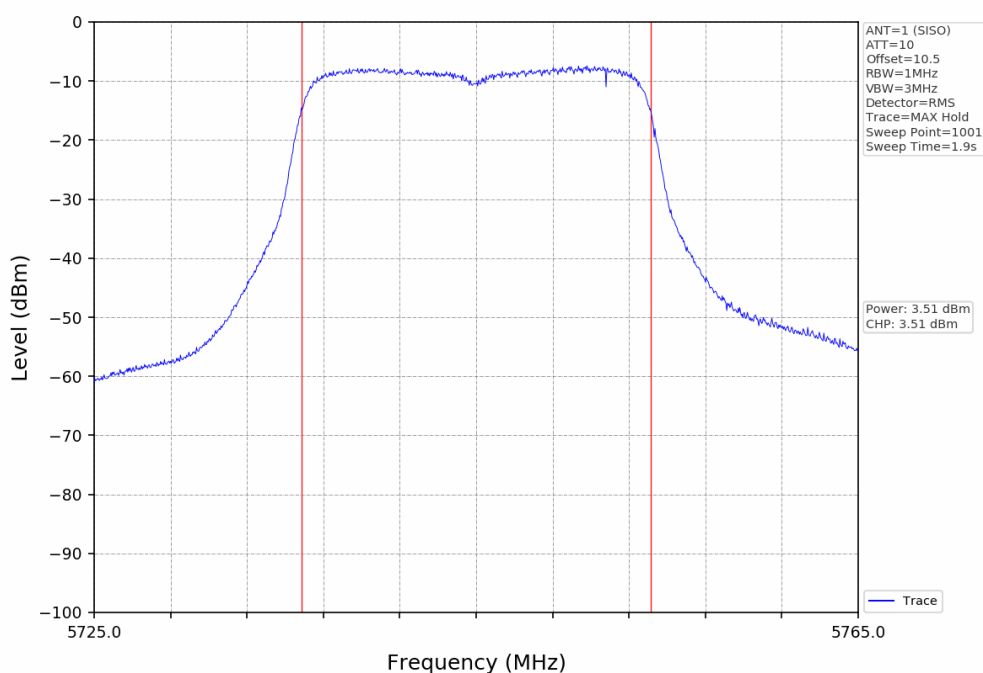
Maximum Conducted Outpower NTV 802.11ac(VHT20) SISO 5785MHz ANT1



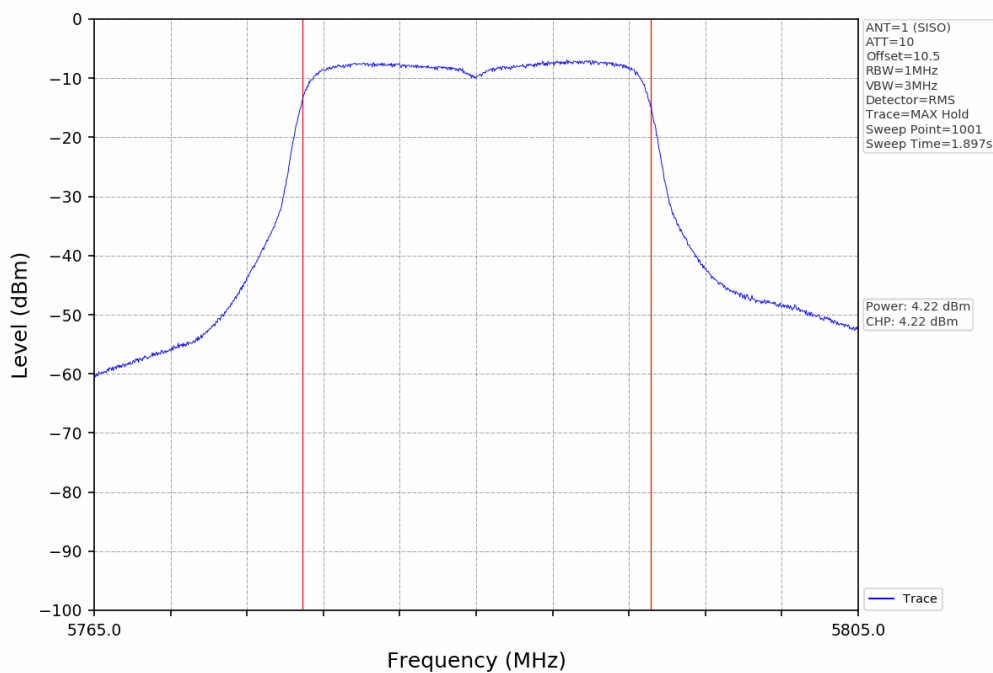
Maximum Conducted Outpower NTV 802.11ac(VHT20) SISO 5805MHz ANT1



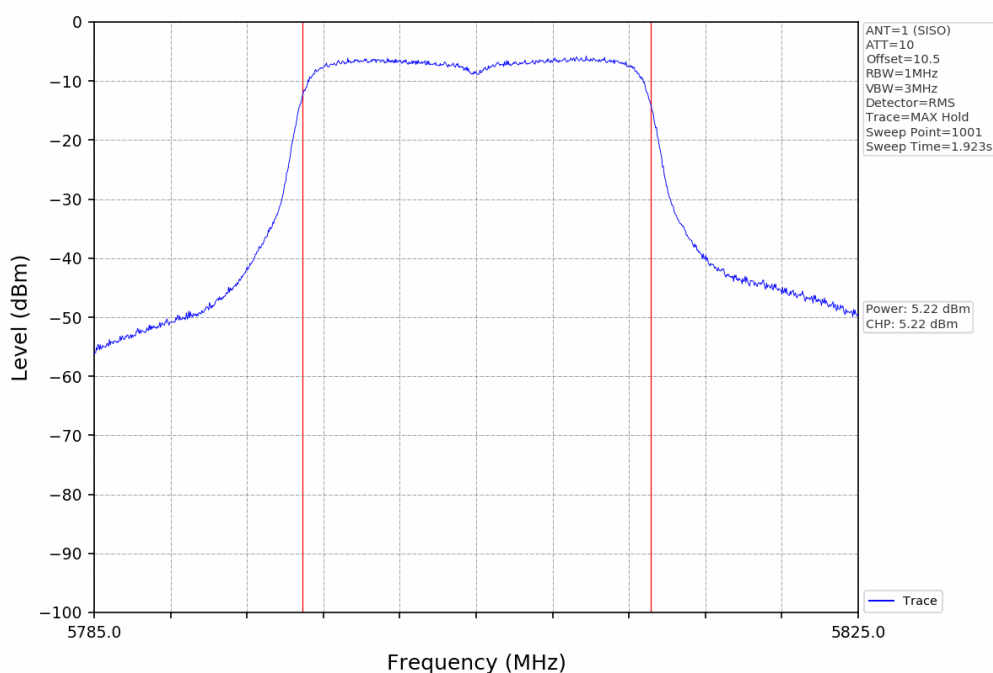
Maximum Conducted Outpower NTN 802.11n(HT20) SISO 5745MHz ANT2



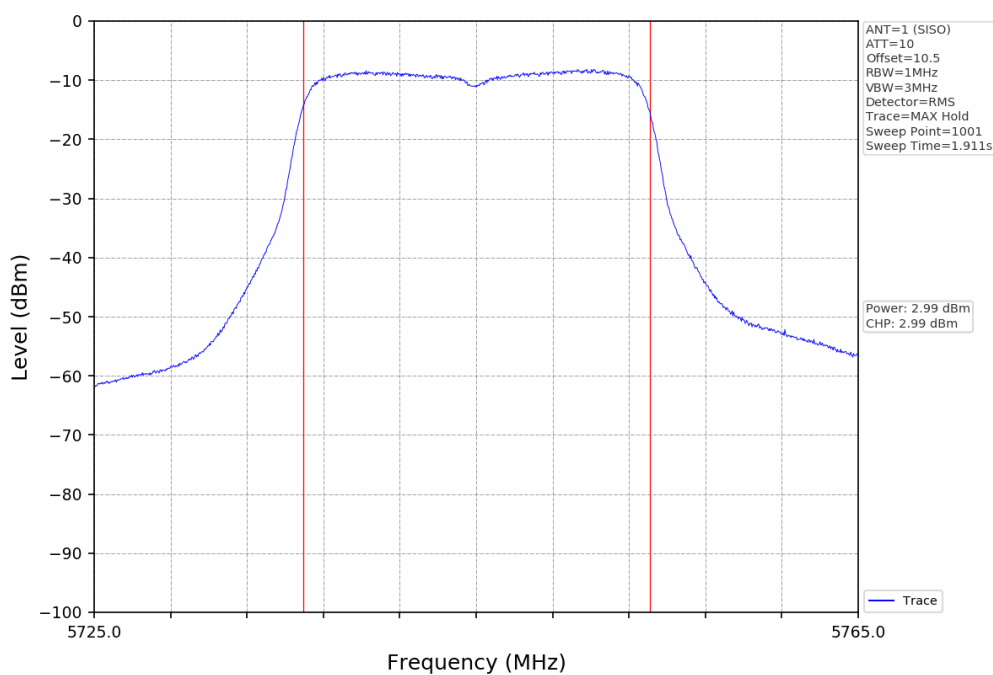
Maximum Conducted Outpower NTN 802.11n(HT20) SISO 5785MHz ANT2



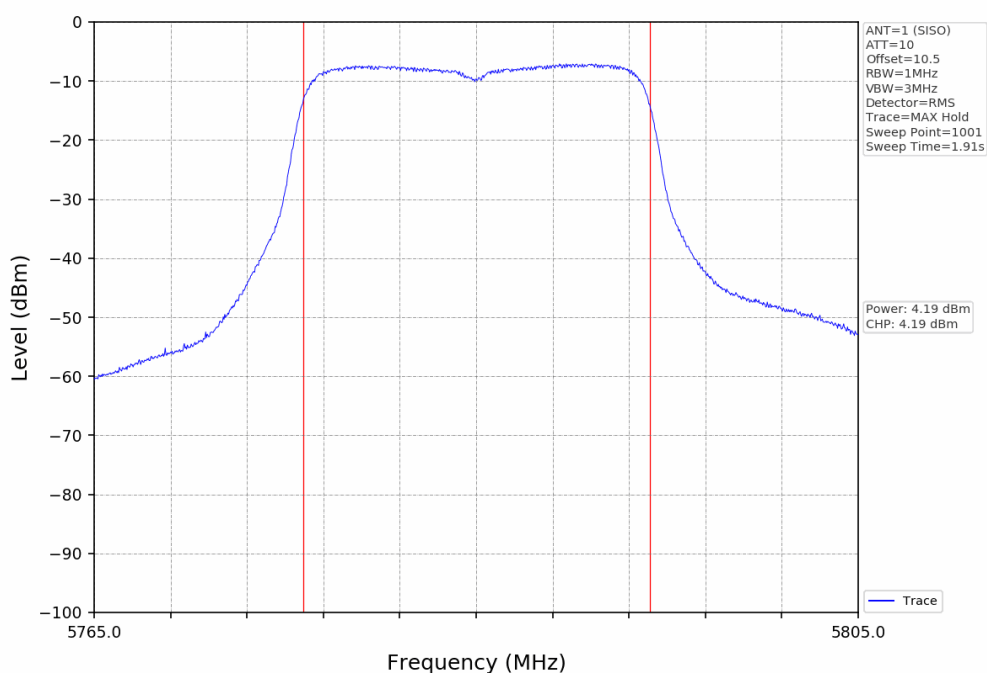
Maximum Conducted Outpower NTNV 802.11n(HT20) SISO 5805MHz ANT2



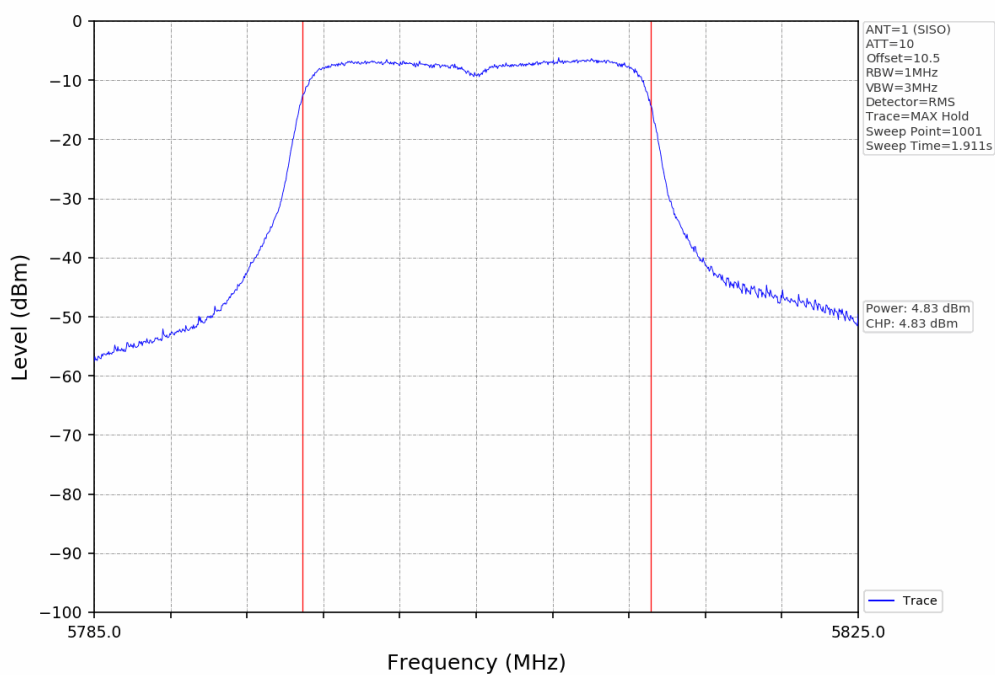
Maximum Conducted Outpower NTNV 802.11ac(VHT20) SISO 5745MHz ANT2



Maximum Conducted Outpower NTV 802.11ac(VHT20) SISO 5785MHz ANT2



Maximum Conducted Outpower NTV 802.11ac(VHT20) SISO 5805MHz ANT2



4. Maximum Power Spectral Density (PSD)

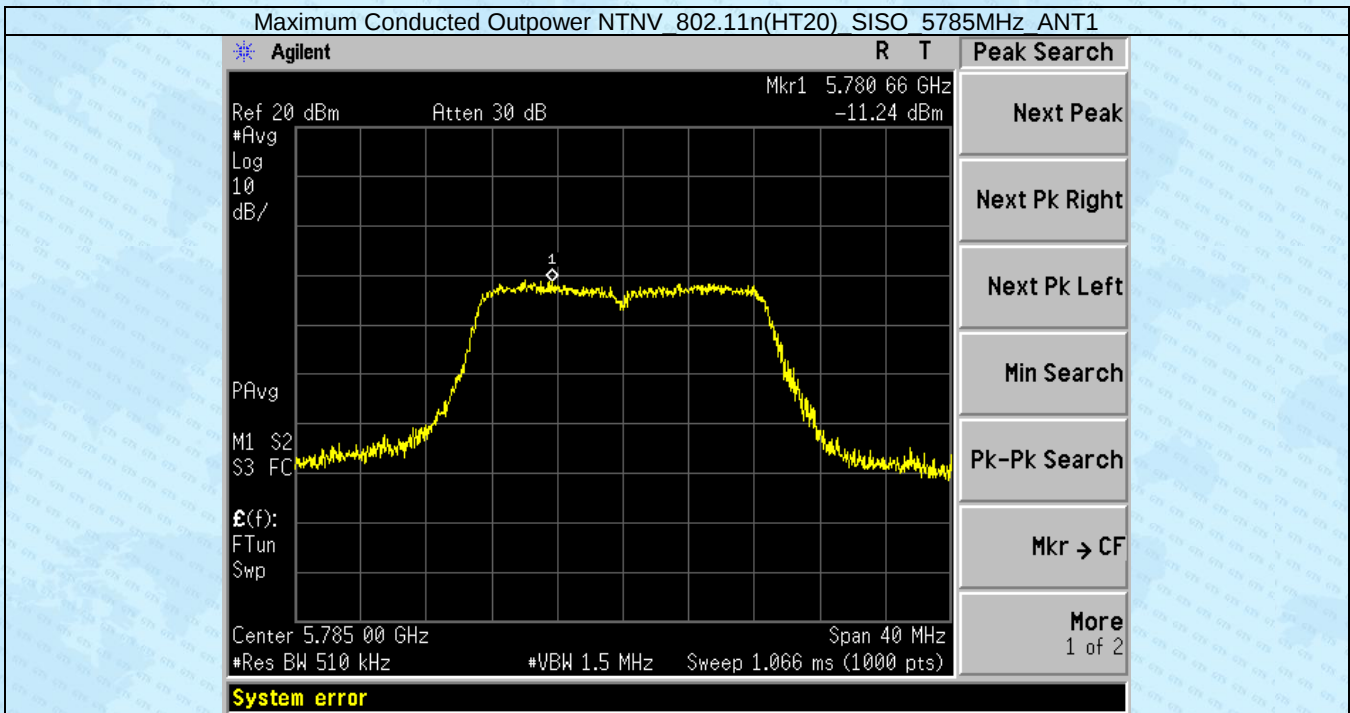
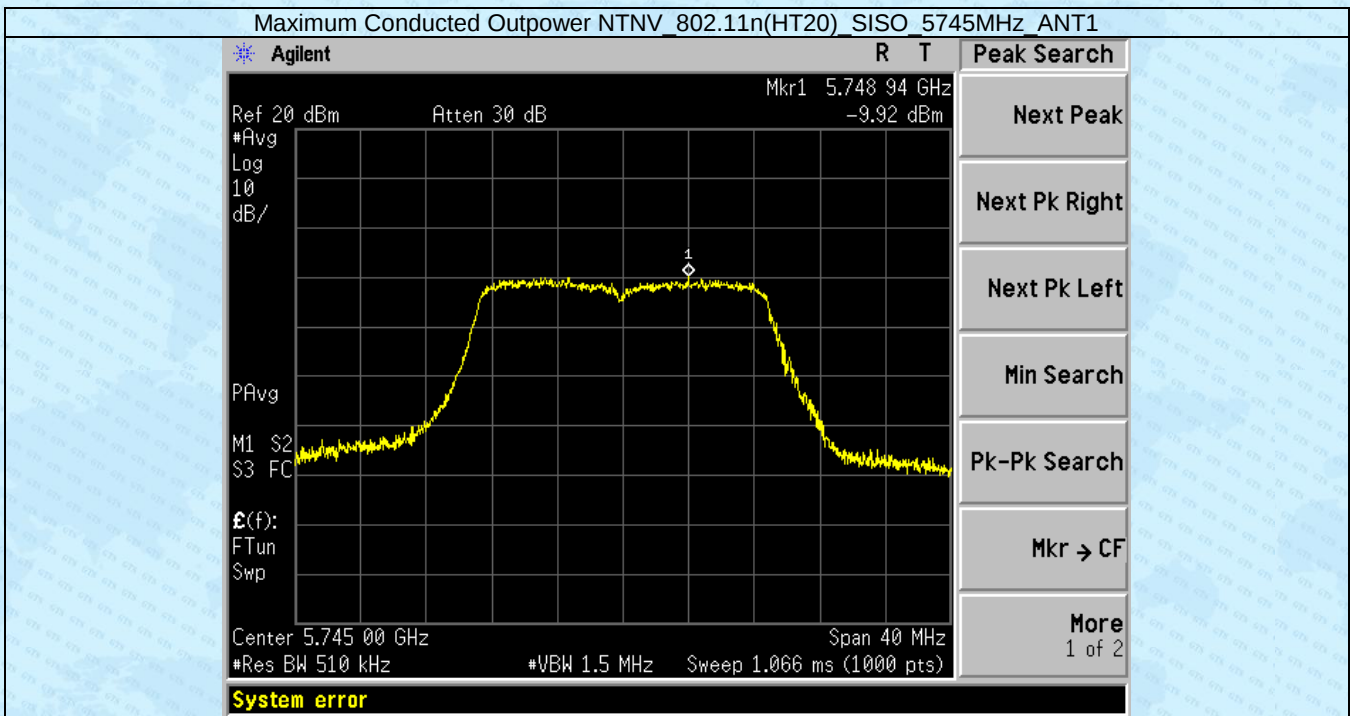
4.1 Test Result

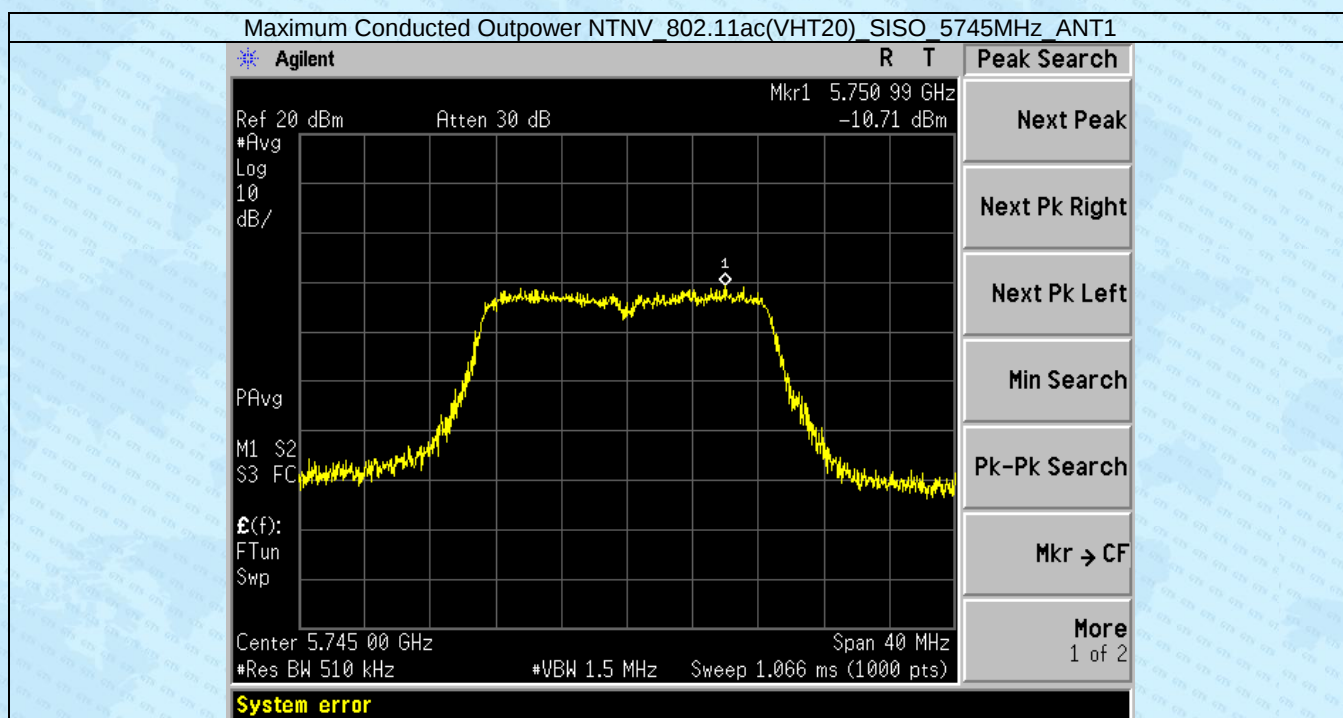
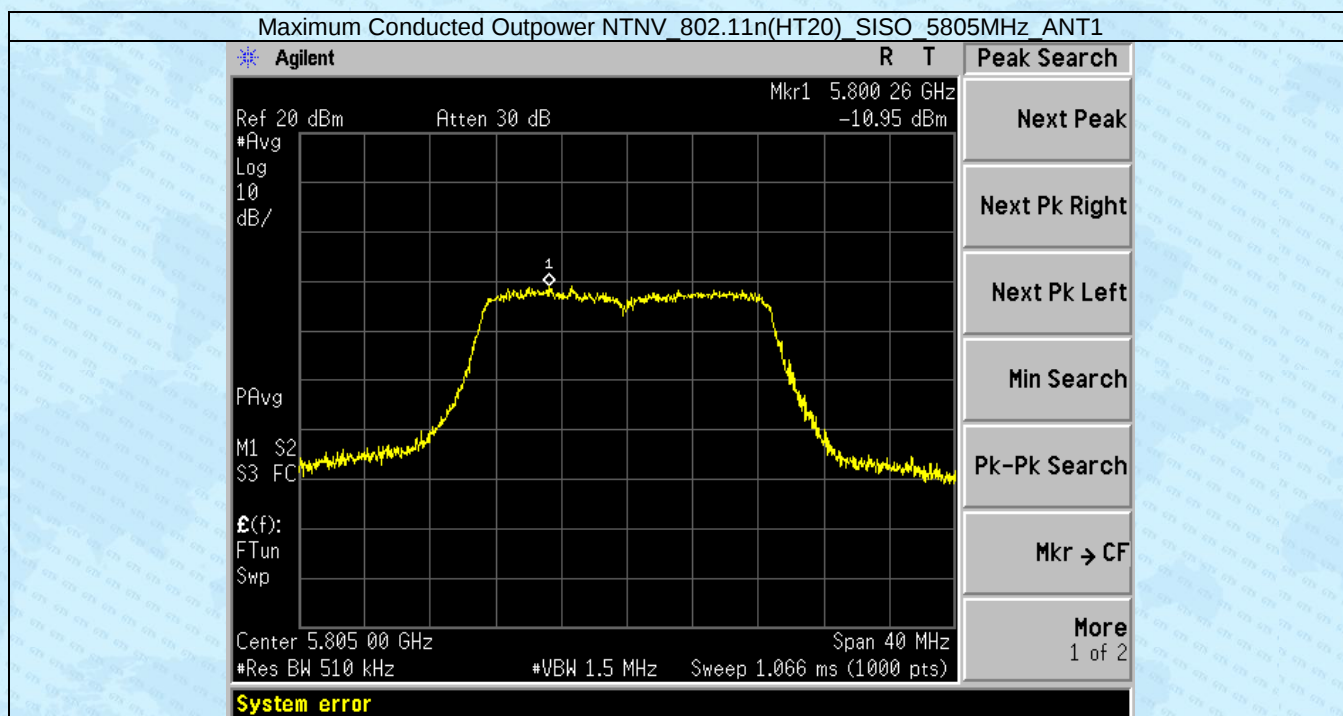
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
			Ant 1		
802.11n(HT20)	5745.0	SISO	-9.92	≤30	PASS
	5785.0	SISO	-11.24	≤30	PASS
	5805.0	SISO	-10.95	≤30	PASS
802.11ac(VHT20)	5745.0	SISO	-10.71	≤30	PASS
	5785.0	SISO	-11.54	≤30	PASS
	5805.0	SISO	-11.81	≤30	PASS

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
			Ant 2		
802.11n(HT20)	5745.0	SISO	-8.87	≤30	PASS
	5785.0	SISO	-10.17	≤30	PASS
	5805.0	SISO	-10.15	≤30	PASS
802.11ac(VHT20)	5745.0	SISO	-9.92	≤30	PASS
	5785.0	SISO	-10.58	≤30	PASS
	5805.0	SISO	-11.71	≤30	PASS

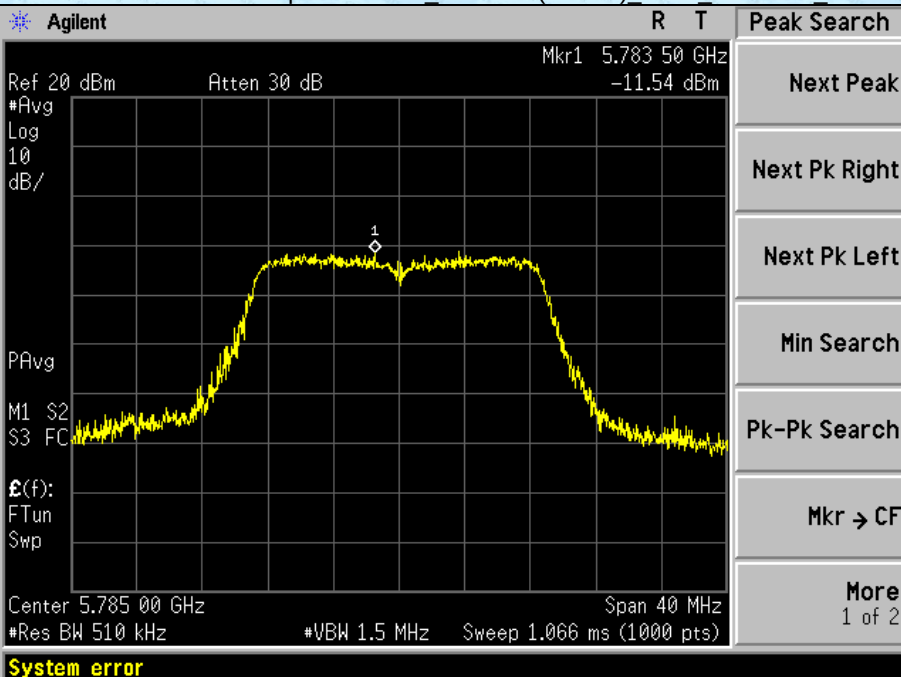
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
802.11n(HT20)	5745.0	MIMO	-6.35	≤30	PASS
	5785.0	MIMO	-7.66	≤30	PASS
	5805.0	MIMO	-7.52	≤30	PASS
802.11ac(VHT20)	5745.0	MIMO	-7.29	≤30	PASS
	5785.0	MIMO	-8.02	≤30	PASS
	5805.0	MIMO	-8.75	≤30	PASS

4.2 Test Graph

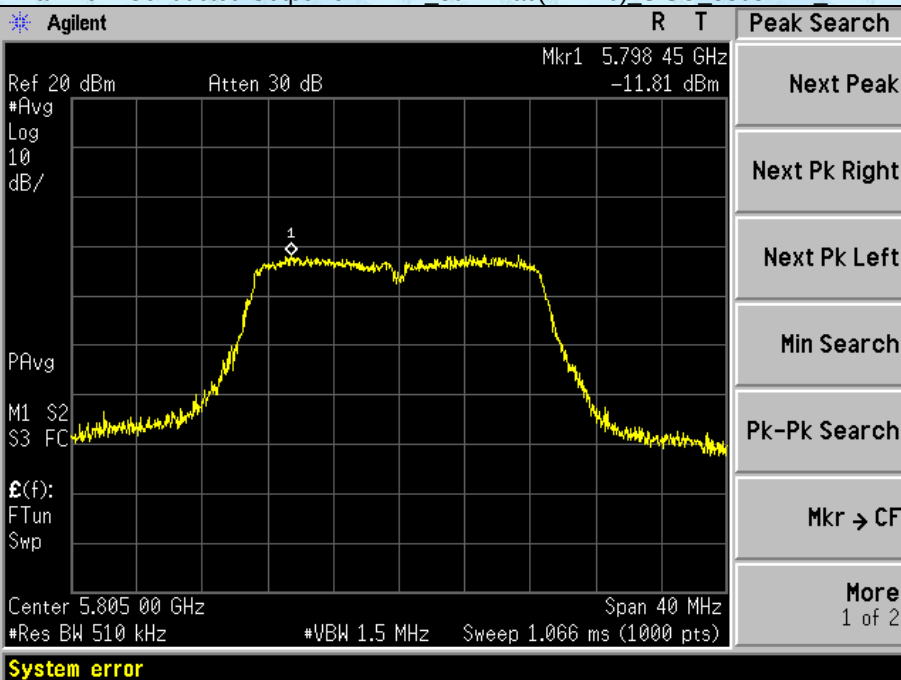




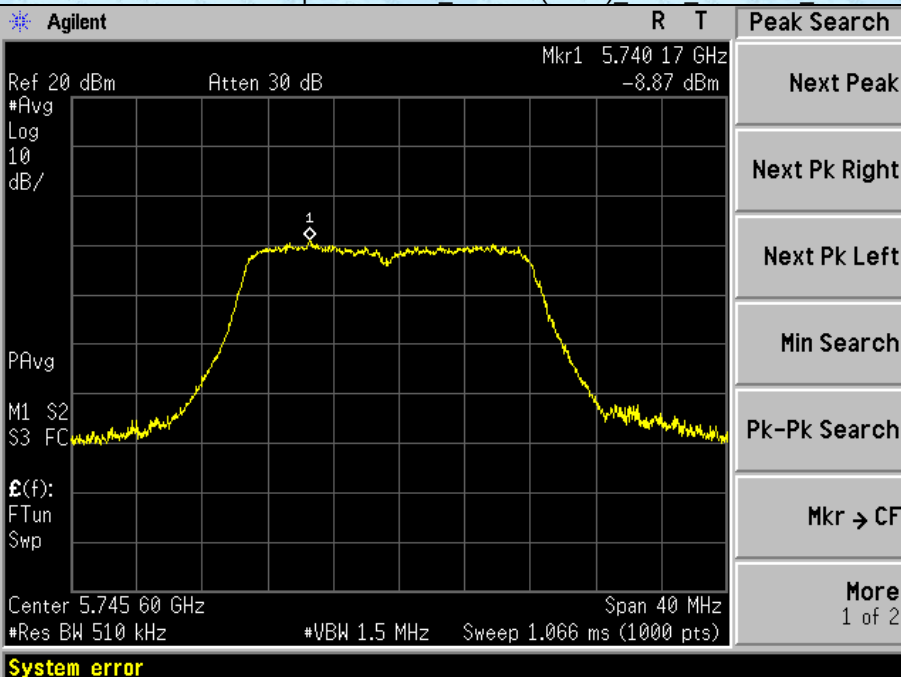
Maximum Conducted Outpower NTNV_802.11ac(VHT20) SISO_5785MHz ANT1



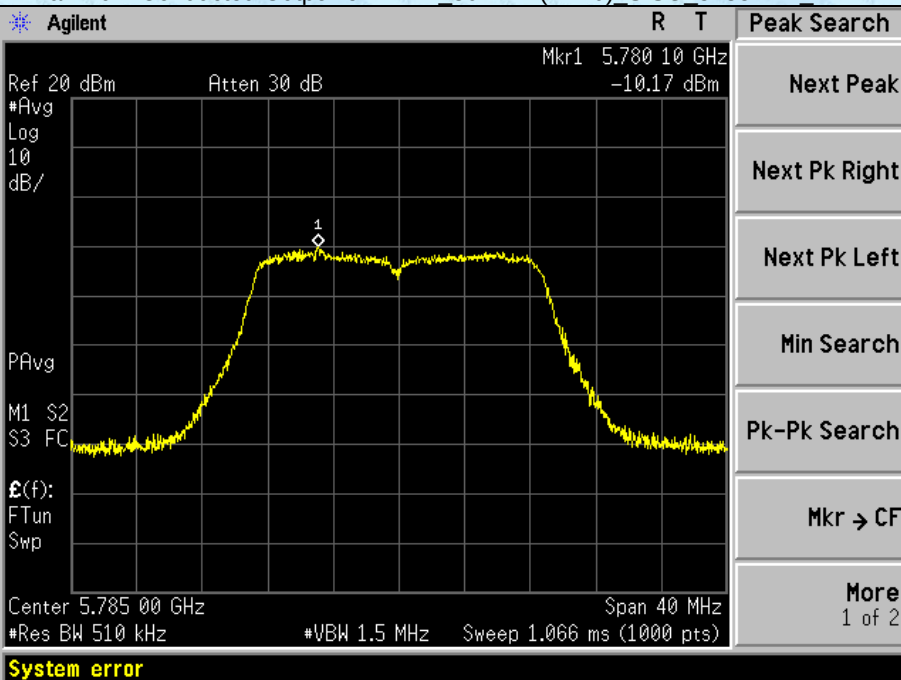
Maximum Conducted Outpower NTNV_802.11ac(VHT20) SISO_5805MHz ANT1



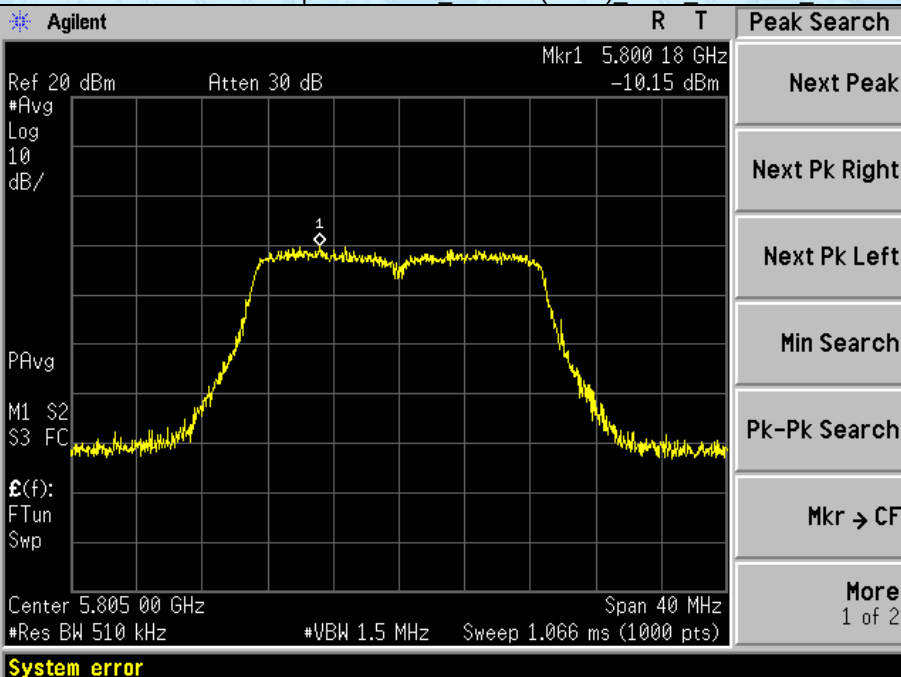
Maximum Conducted Outpower NTNv_802.11n(HT20) SISO_5745MHz ANT2



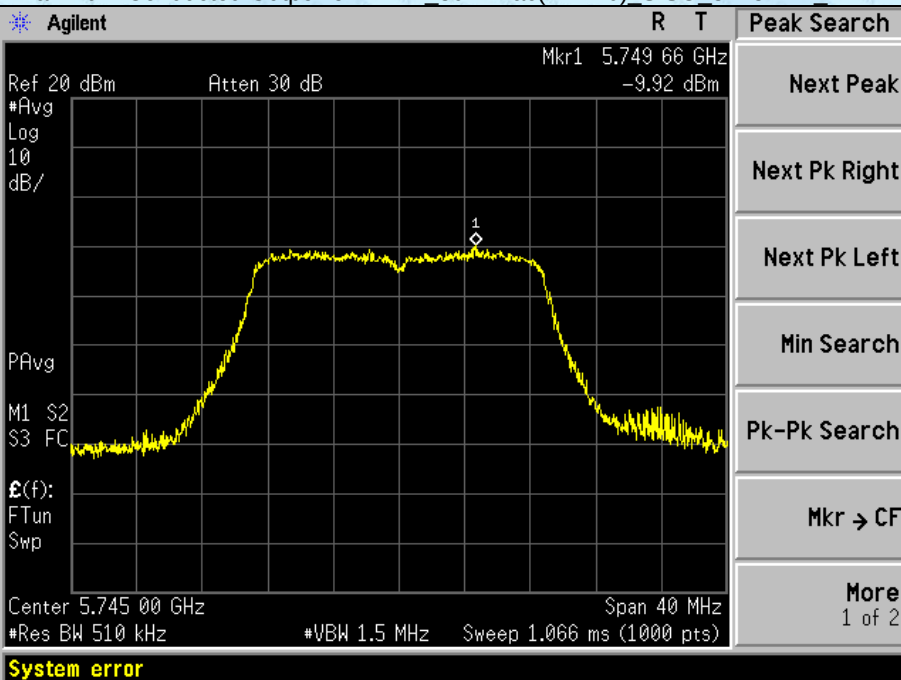
Maximum Conducted Outpower NTNv_802.11n(HT20) SISO_5785MHz ANT2



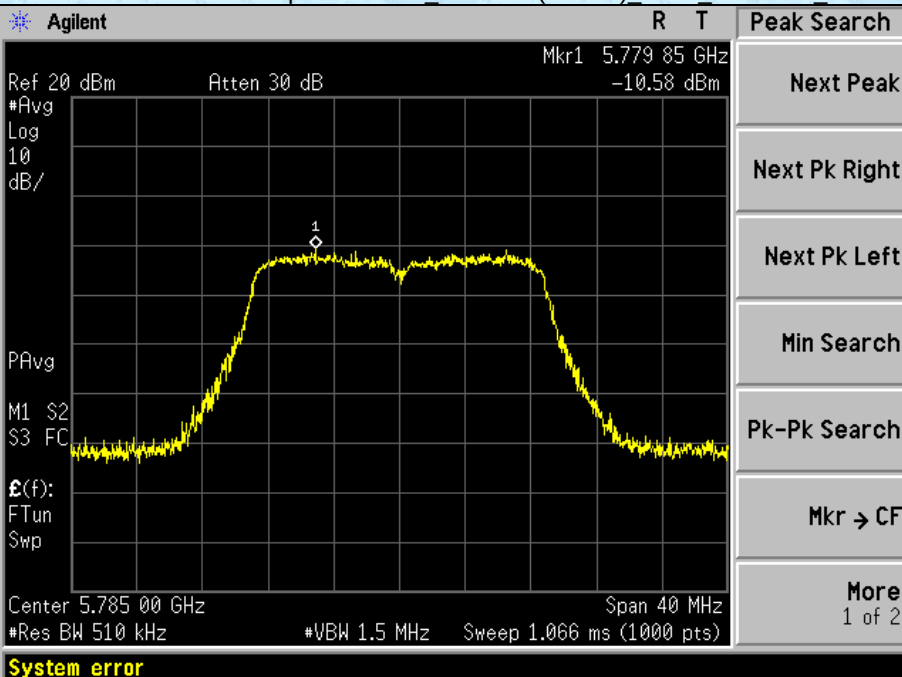
Maximum Conducted Outpower NTN_V 802.11n(HT20) SISO 5805MHz ANT2



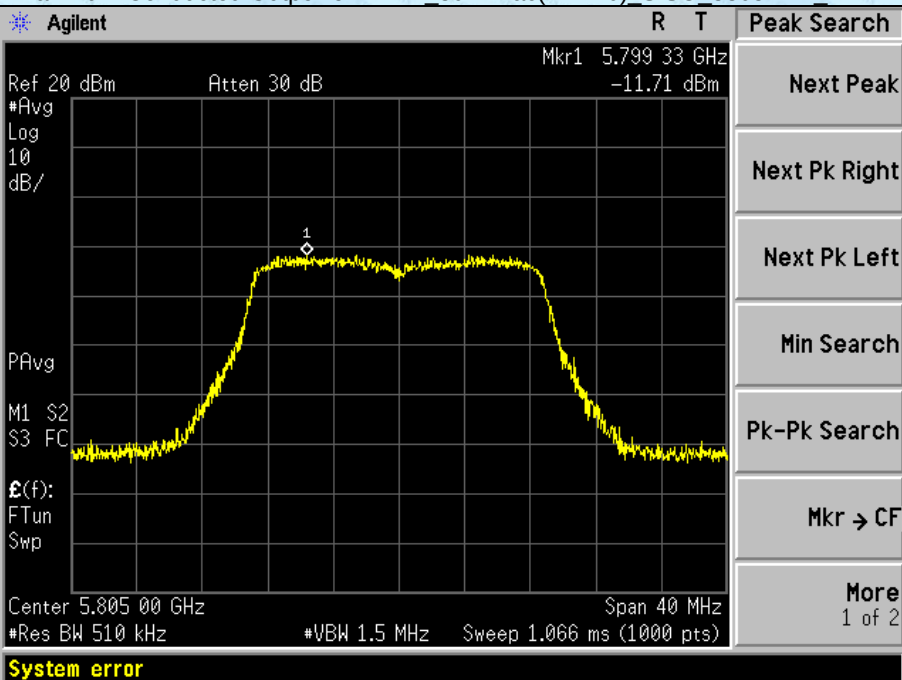
Maximum Conducted Outpower NTN_V 802.11ac(VHT20) SISO 5745MHz ANT2



Maximum Conducted Outpower NTVN_802.11ac(VHT20) SISO_5785MHz ANT2



Maximum Conducted Outpower NTVN_802.11ac(VHT20) SISO_5805MHz ANT2



5. Frequency Stability

5.1 Test Result

Only shown the worst case

Test Condition	Test Mode	Test Frequency [MHz]	Ant	Result [ppm]	Limit [ppm]	Verdict
NTNV	Carrier	5745.0	1	-8.88	≤ 20	PASS
		5785.0	1	-8.82	≤ 20	PASS
		5805.0	1	-8.79	≤ 20	PASS

-----End-----