

Appendix: Test Data for 5G WIFI

Product Name: TT1001 10.1 inch Tablet

Test Model: TT1001V2

1. Bandwidth

1.1 Test Result

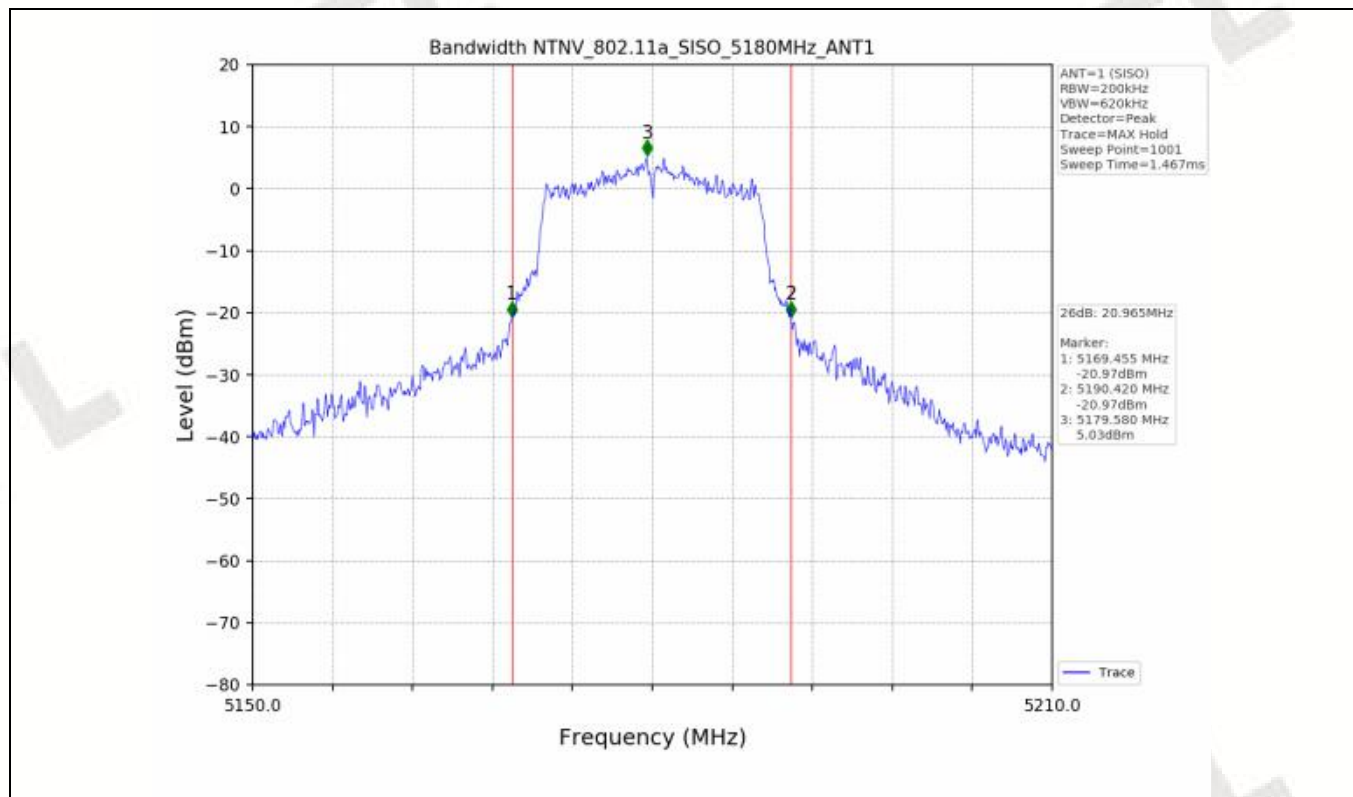
Test Mode	Frequency (MHz)	TX Type	ANT No.	Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11a	5180	SISO	1	20.965	Only for Report Use	PASS
	5200	SISO	1	20.921	Only for Report Use	PASS
	5240	SISO	1	21.157	Only for Report Use	PASS
802.11n(HT20)	5180	MIMO	1	22.084	Only for Report Use	PASS
	5200	MIMO	1	29.764	Only for Report Use	PASS
	5240	MIMO	1	29.470	Only for Report Use	PASS
802.11n(HT40)	5190	MIMO	1	48.055	Only for Report Use	PASS
	5230	MIMO	1	51.460	Only for Report Use	PASS
802.11ac(VHT20)	5180	MIMO	1	22.229	Only for Report Use	PASS
	5200	MIMO	1	29.701	Only for Report Use	PASS
	5240	MIMO	1	28.469	Only for Report Use	PASS
802.11ac(VHT40)	5190	MIMO	1	47.782	Only for Report Use	PASS
	5230	MIMO	1	55.951	Only for Report Use	PASS
802.11ac(VHT80)	5210	MIMO	1	81.560	Only for Report Use	PASS

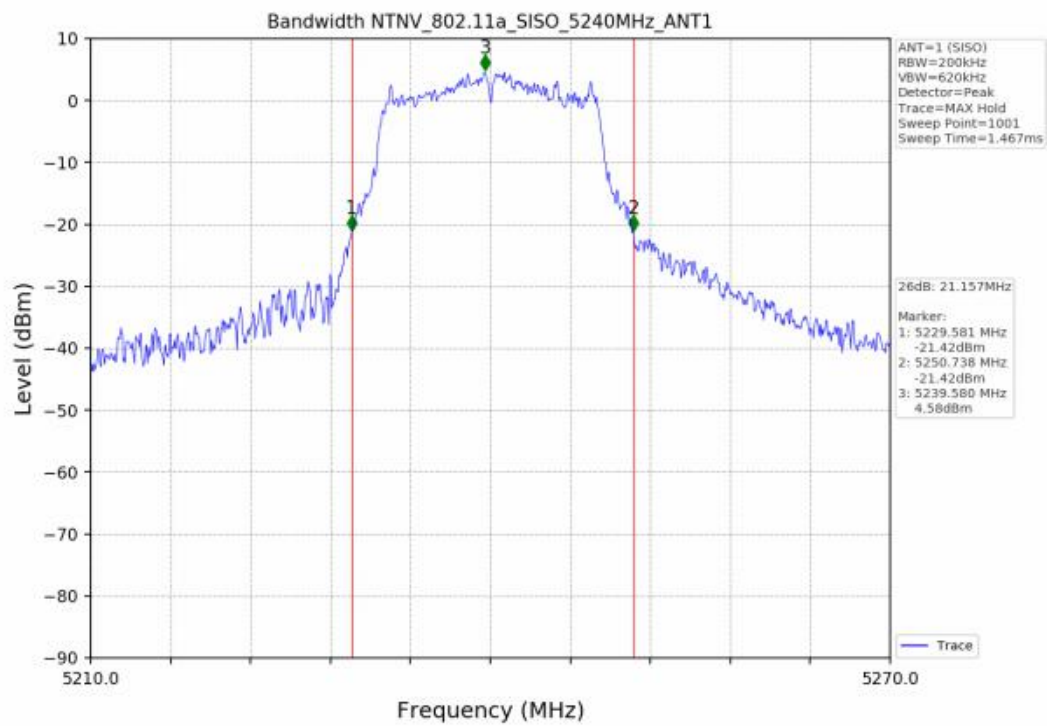
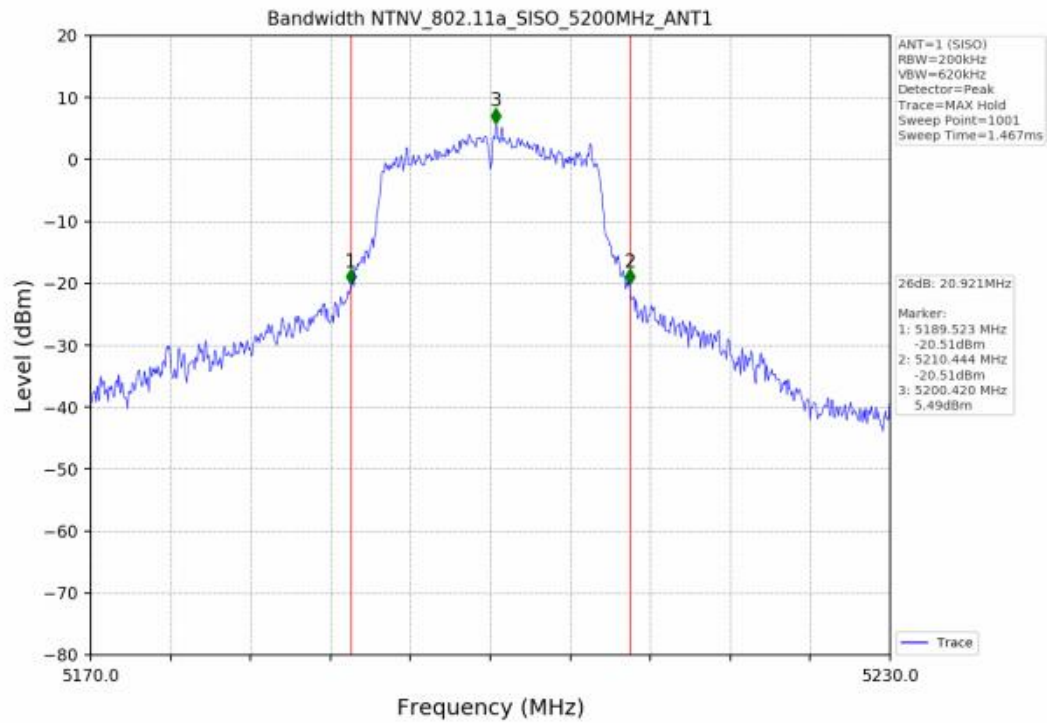
Test Mode	Frequency (MHz)	TX Type	ANT No.	Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11a	5745	SISO	1	16.329	≥0.5	PASS
	5785	SISO	1	16.307	≥0.5	PASS
	5825	SISO	1	15.467	≥0.5	PASS
802.11n(HT20)	5745	MIMO	1	17.249	≥0.5	PASS
	5785	MIMO	1	16.459	≥0.5	PASS
	5825	MIMO	1	17.192	≥0.5	PASS
802.11n(HT40)	5755	MIMO	1	36.038	≥0.5	PASS
	5795	MIMO	1	35.700	≥0.5	PASS
802.11ac(VHT20)	5745	MIMO	1	16.892	≥0.5	PASS
	5785	MIMO	1	17.126	≥0.5	PASS
	5825	MIMO	1	16.368	≥0.5	PASS
802.11ac(VHT40)	5755	MIMO	1	35.896	≥0.5	PASS
	5795	MIMO	1	35.798	≥0.5	PASS
802.11ac(VHT80)	5775	MIMO	1	75.389	≥0.5	PASS

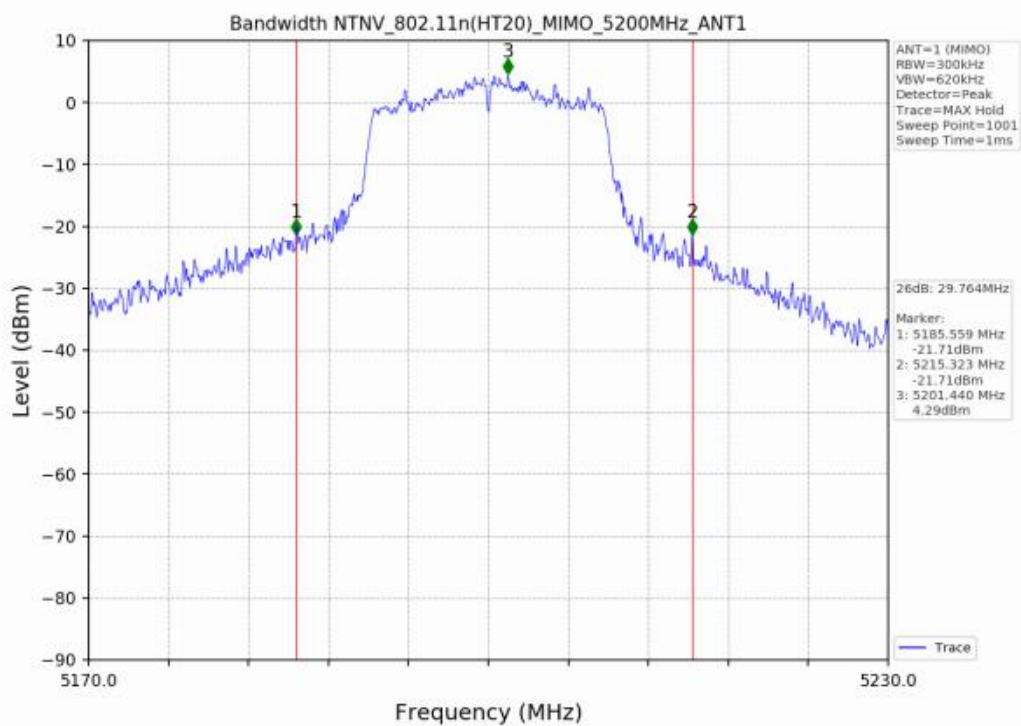
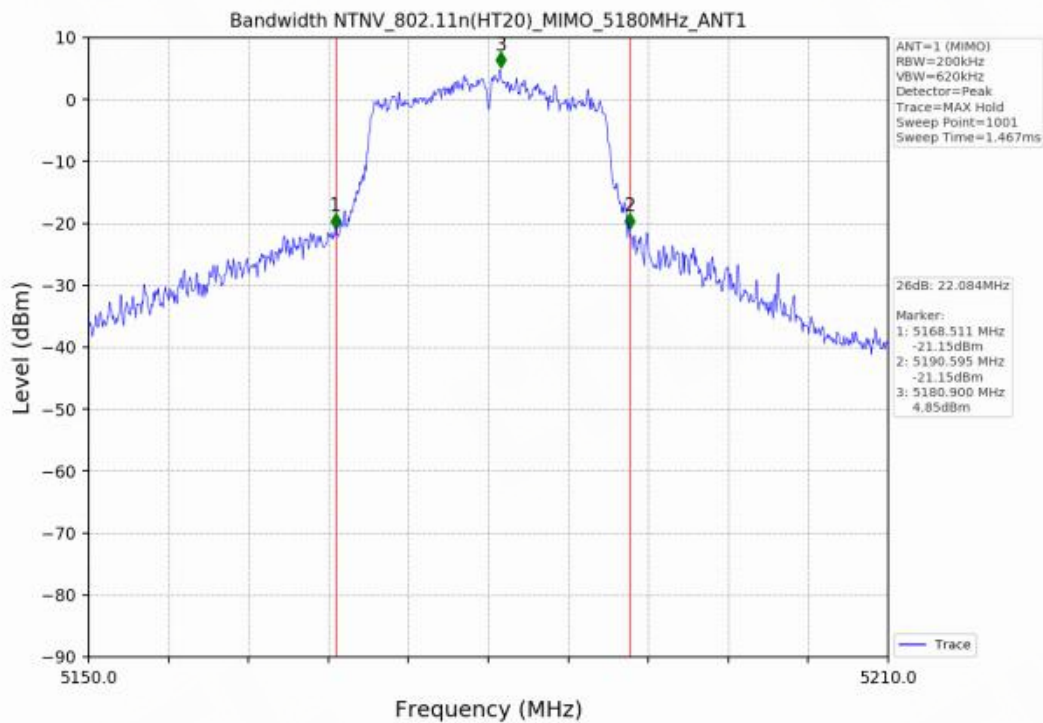
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11a	5180	SISO	1	16.894	Only for Report Use
	5200	SISO	1	16.968	Only for Report Use
	5240	SISO	1	16.957	Only for Report Use
	5745	SISO	1	17.120	Only for Report Use
	5785	SISO	1	16.969	Only for Report Use
	5825	SISO	1	17.119	Only for Report Use
802.11n(HT20)	5180	MIMO	1	18.227	Only for Report Use

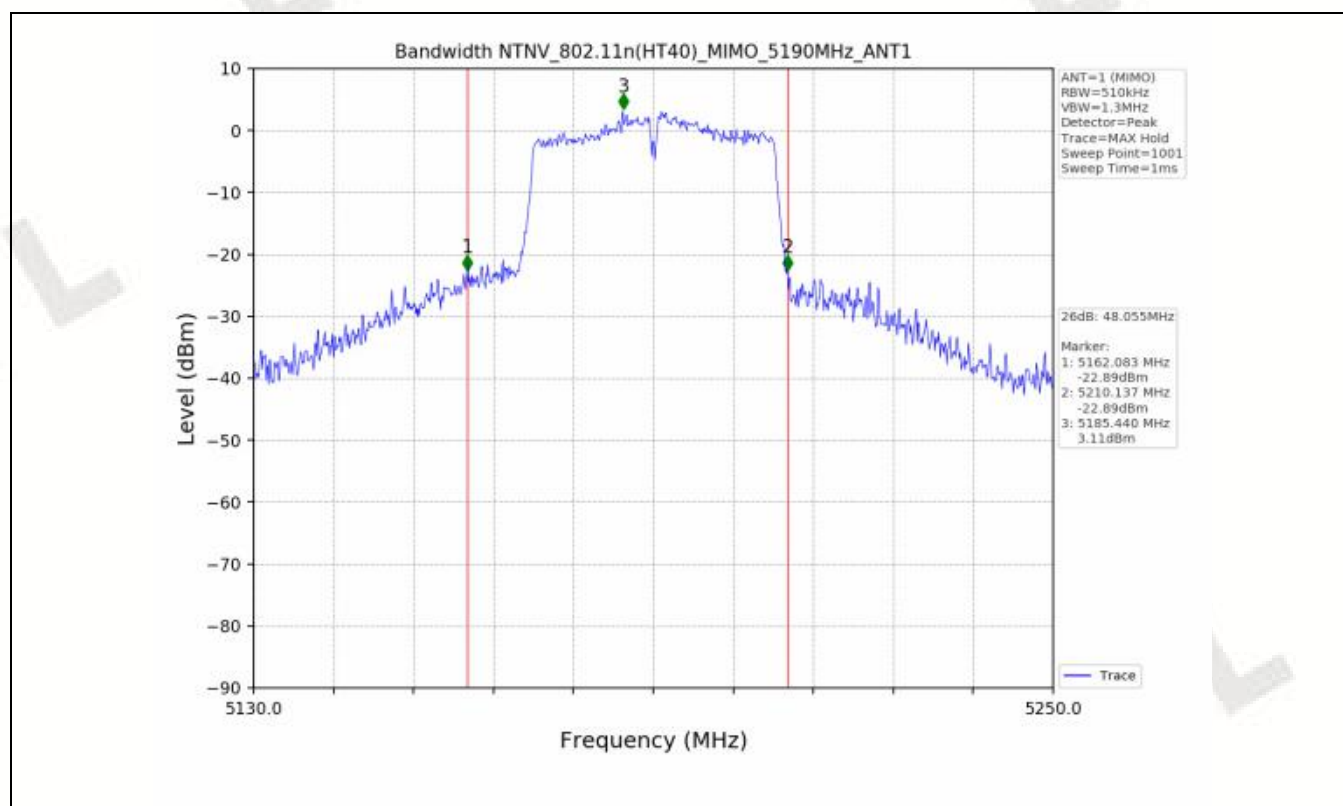
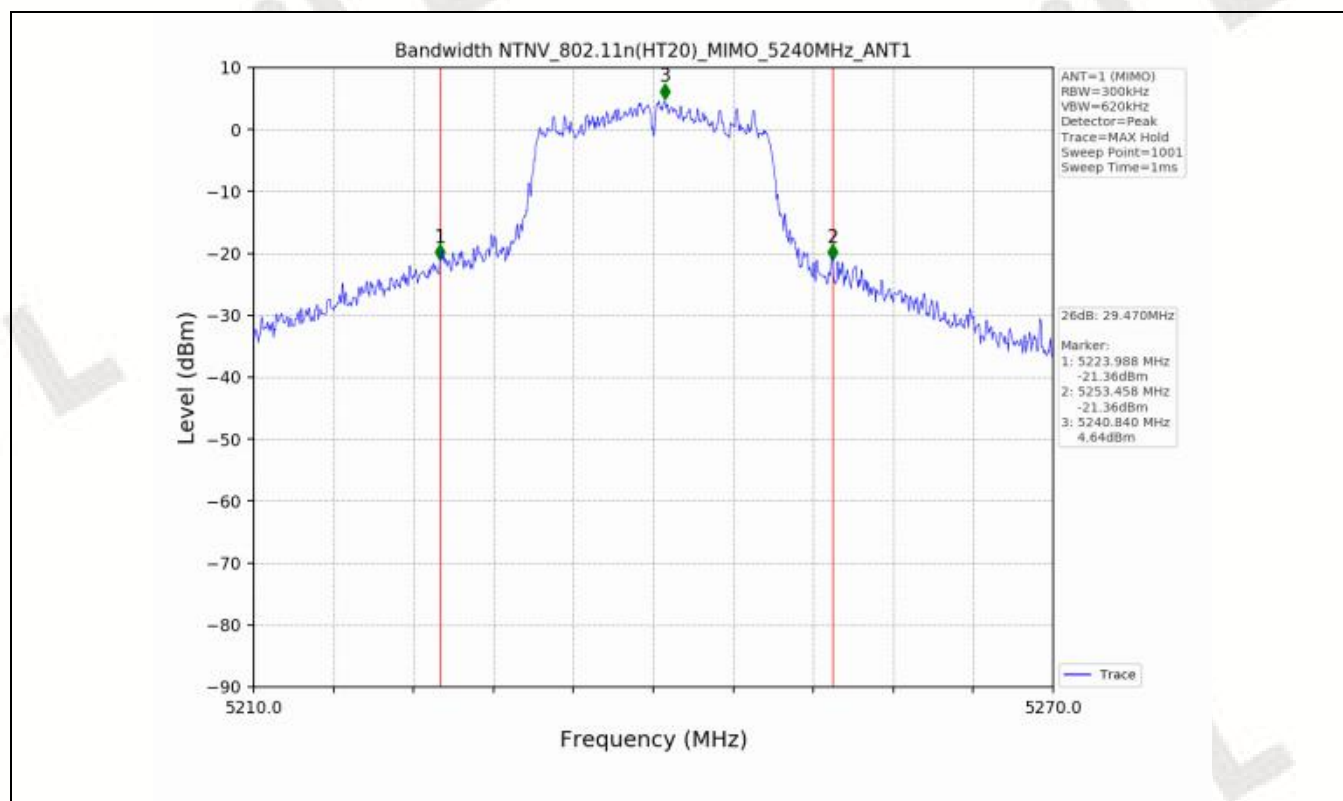
	5200	MIMO	1	18.345	Only for Report Use
	5240	MIMO	1	18.562	Only for Report Use
	5745	MIMO	1	18.174	Only for Report Use
	5785	MIMO	1	18.503	Only for Report Use
	5825	MIMO	1	18.439	Only for Report Use
802.11n(HT40)	5190	MIMO	1	36.772	Only for Report Use
	5230	MIMO	1	36.766	Only for Report Use
	5755	MIMO	1	36.759	Only for Report Use
	5795	MIMO	1	36.580	Only for Report Use
802.11ac(VHT20)	5180	MIMO	1	18.205	Only for Report Use
	5200	MIMO	1	18.486	Only for Report Use
	5240	MIMO	1	18.662	Only for Report Use
	5745	MIMO	1	18.392	Only for Report Use
	5785	MIMO	1	18.516	Only for Report Use
802.11ac(VHT40)	5825	MIMO	1	18.412	Only for Report Use
	5190	MIMO	1	36.998	Only for Report Use
	5230	MIMO	1	36.862	Only for Report Use
	5755	MIMO	1	36.840	Only for Report Use
802.11ac(VHT80)	5795	MIMO	1	36.654	Only for Report Use
	5210	MIMO	1	75.638	Only for Report Use
	5775	MIMO	1	75.728	Only for Report Use

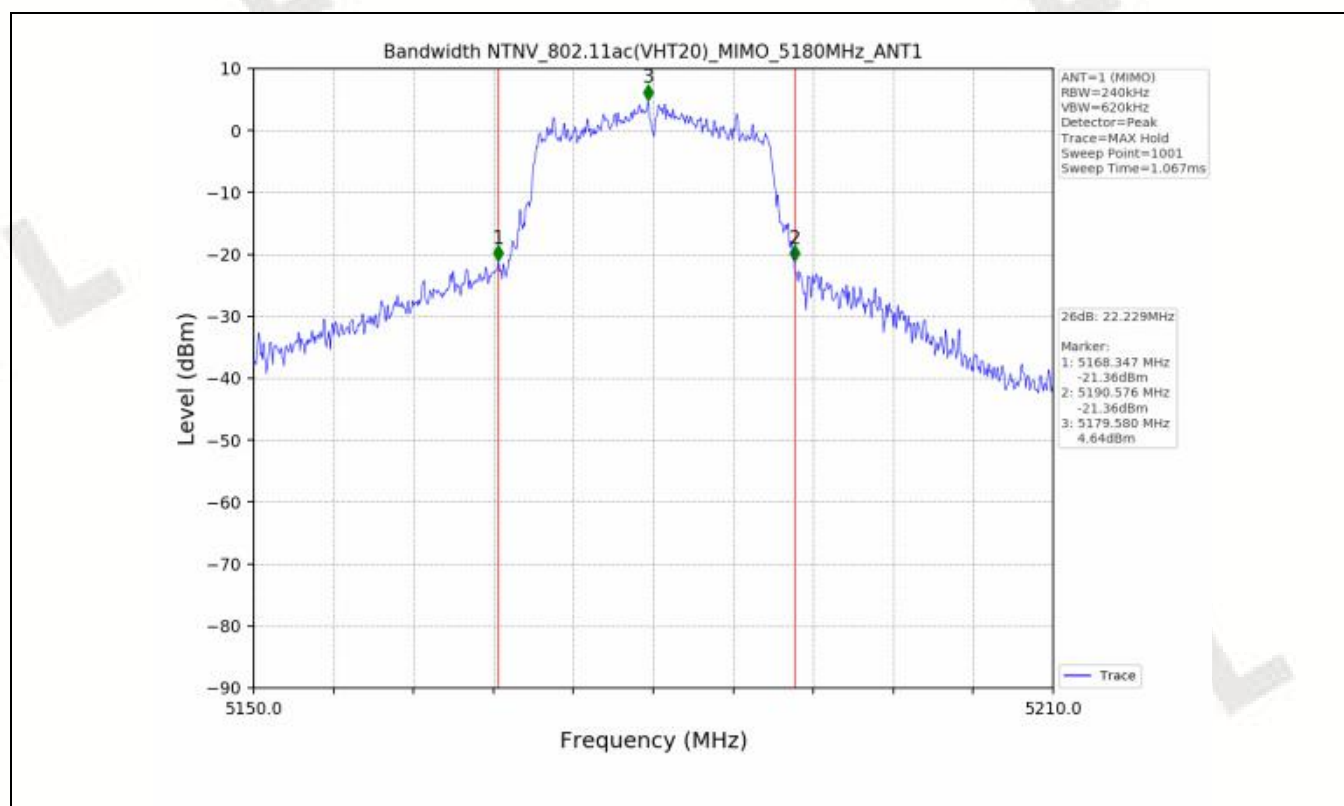
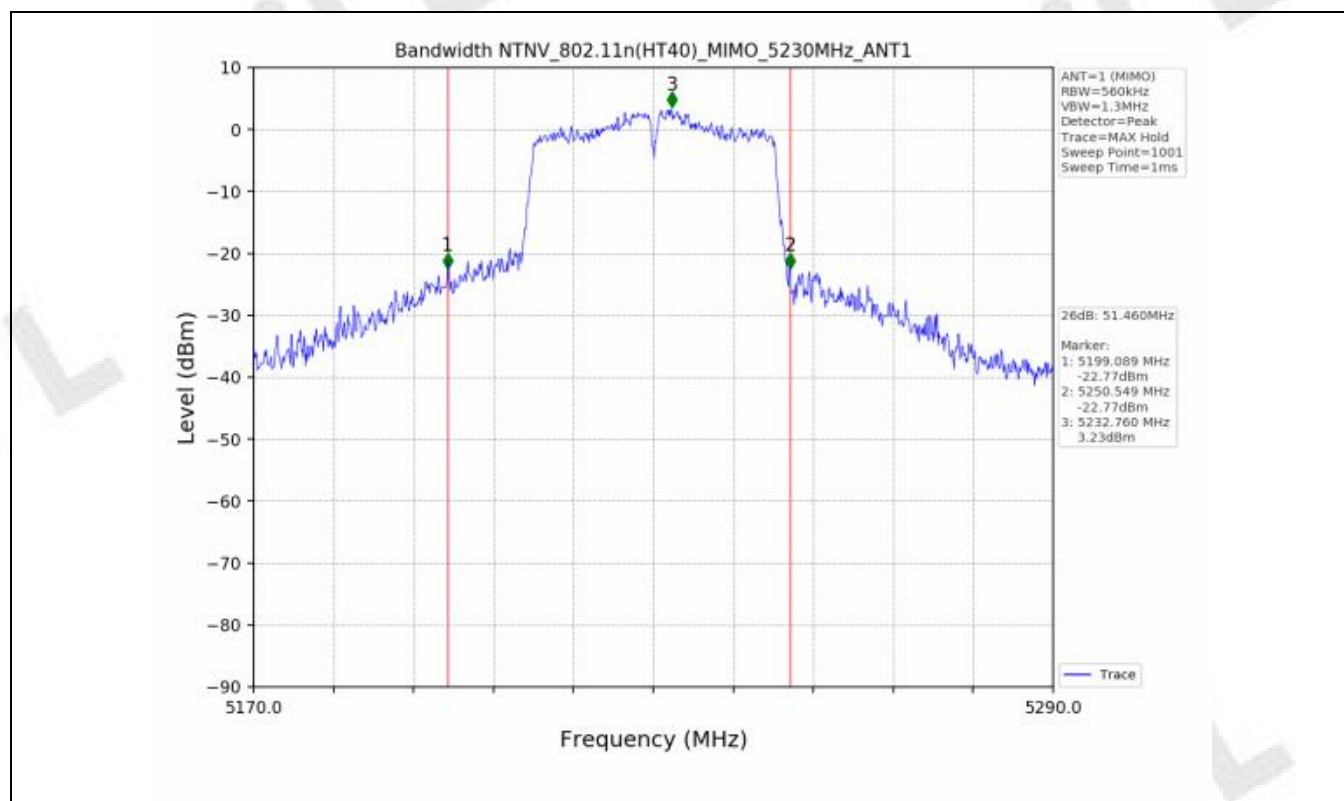
1.2 Test Graph - Emission Bandwidth

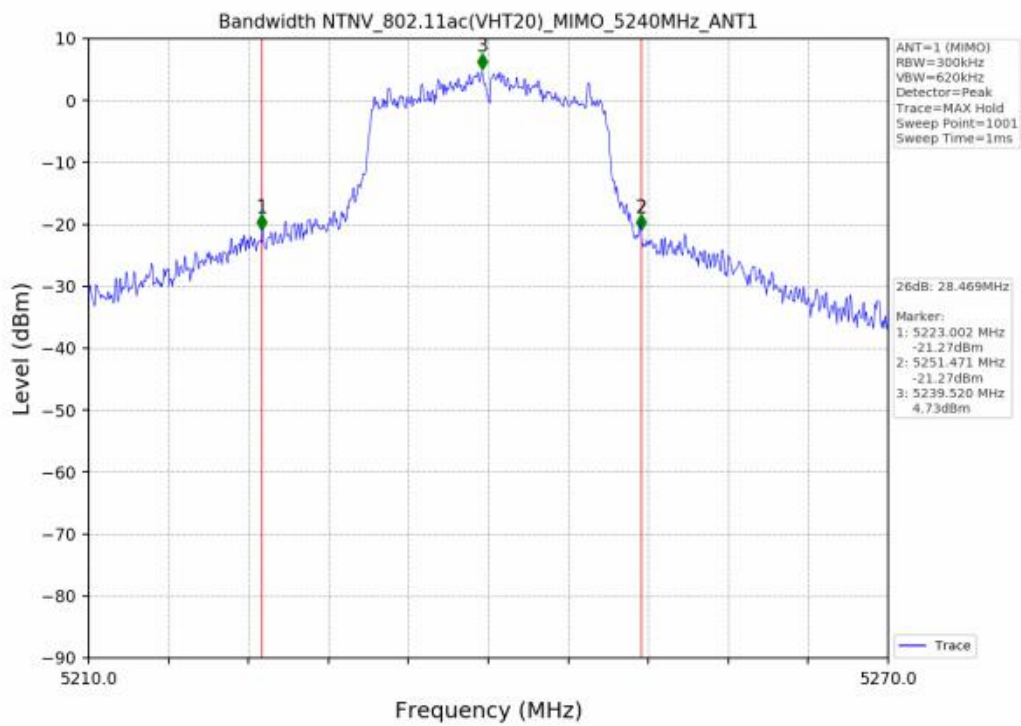
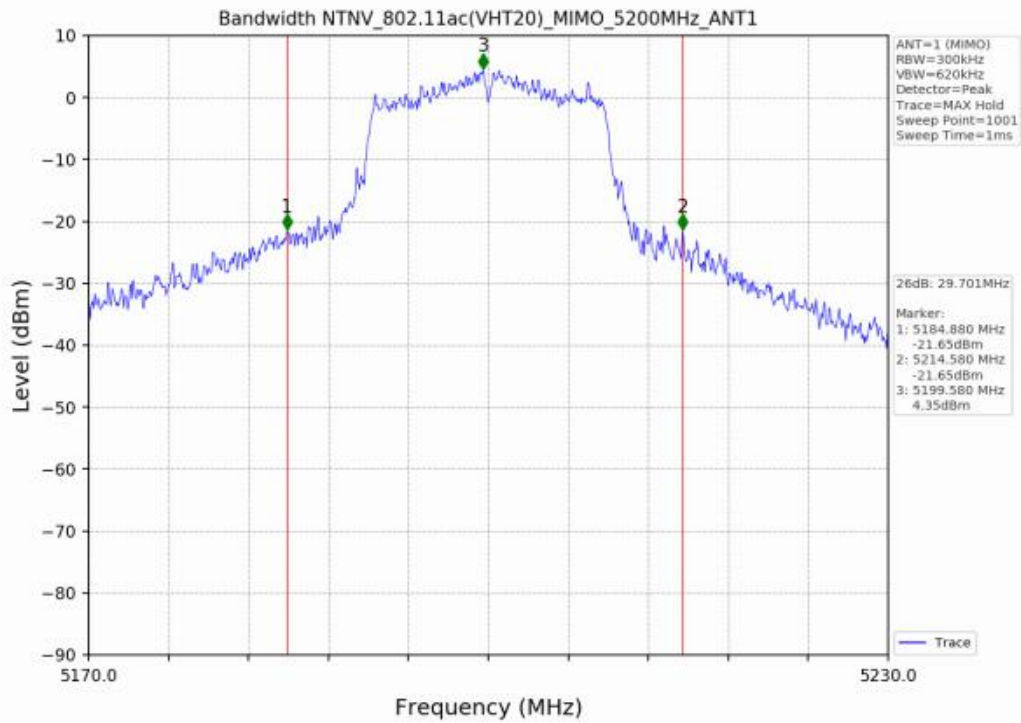


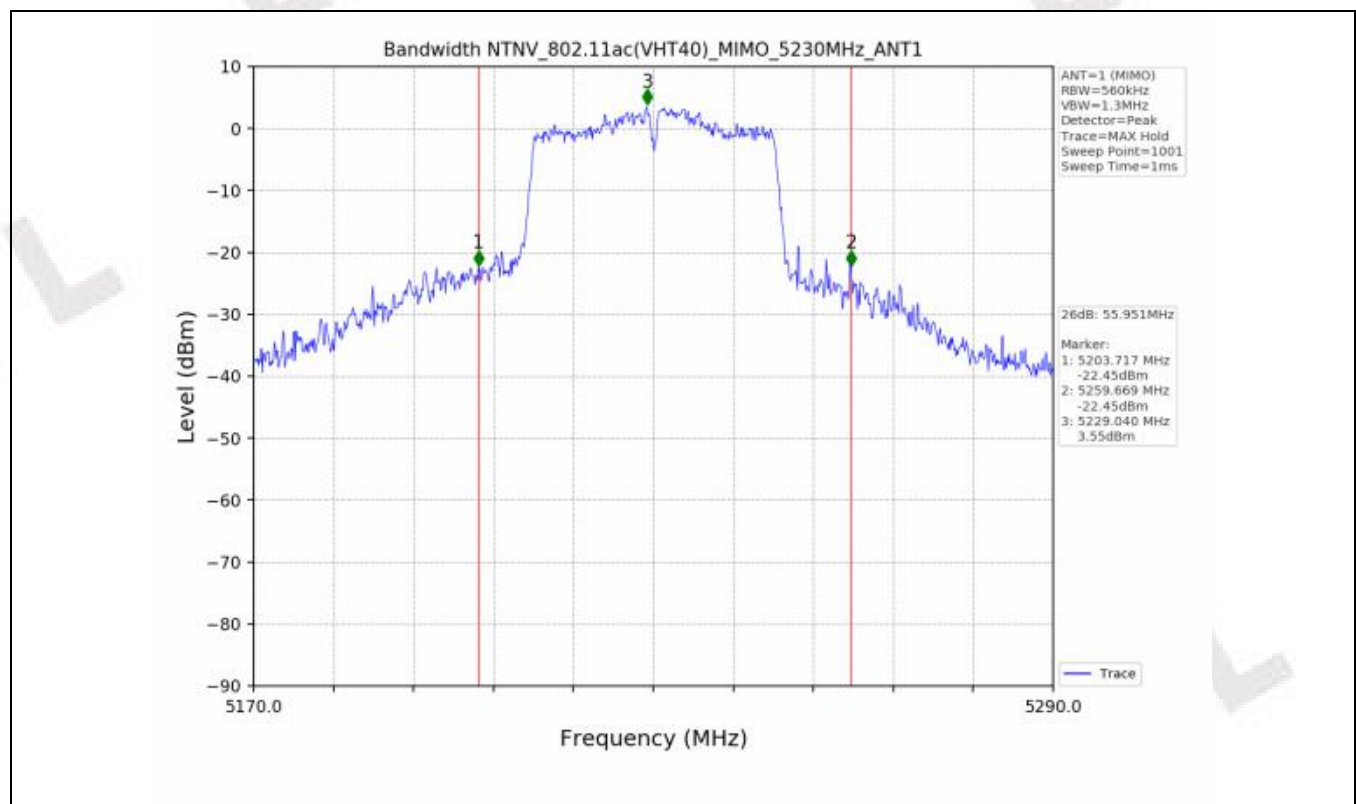
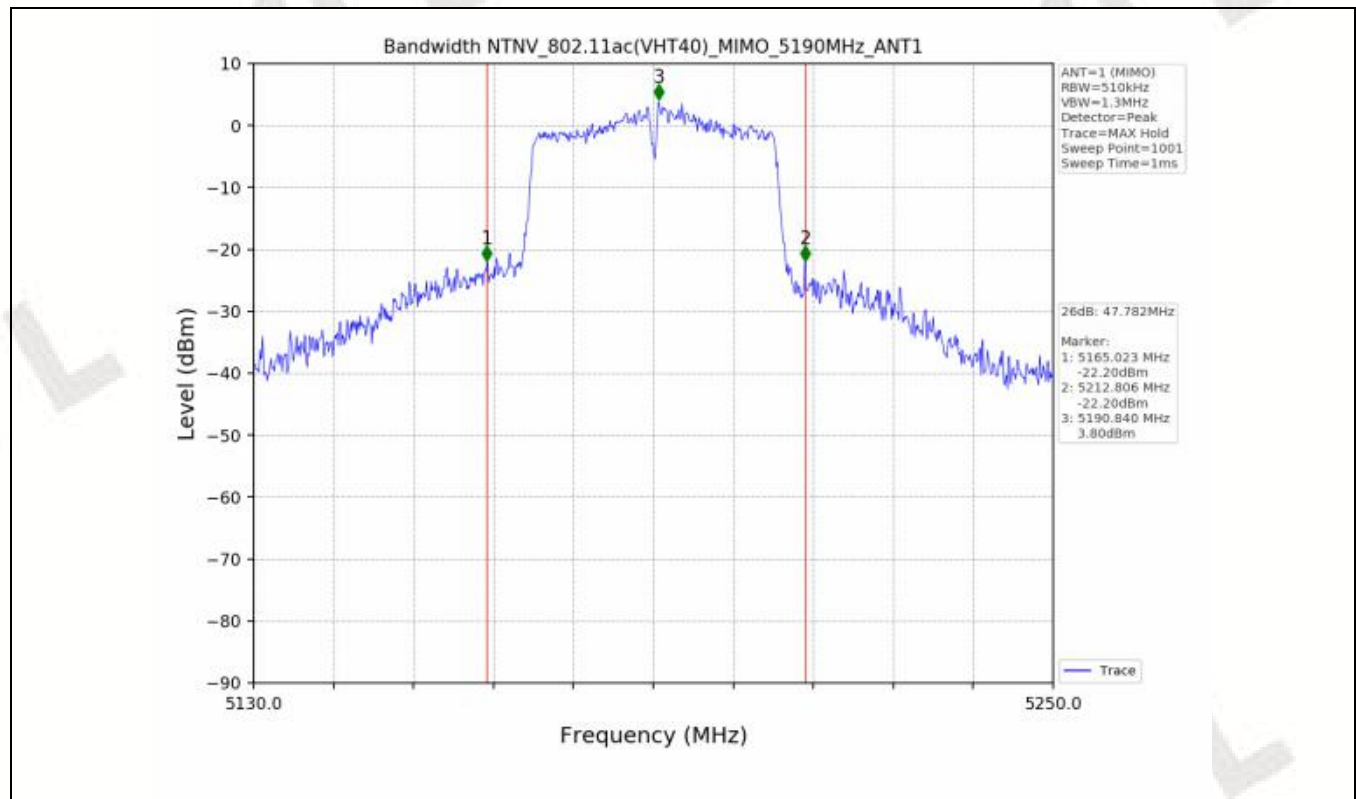


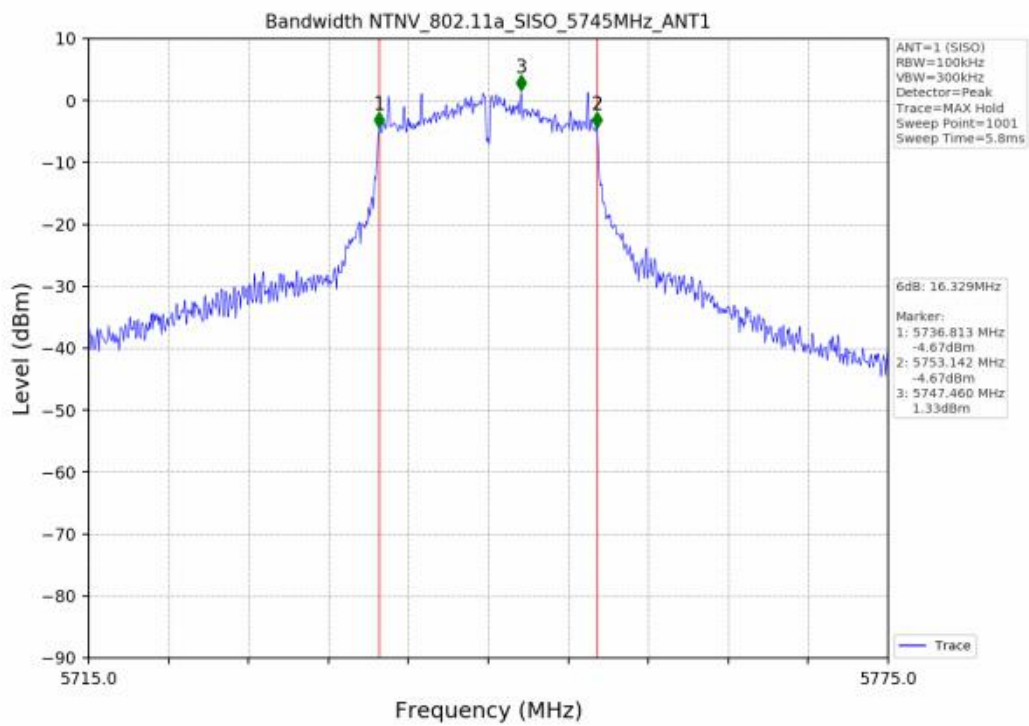
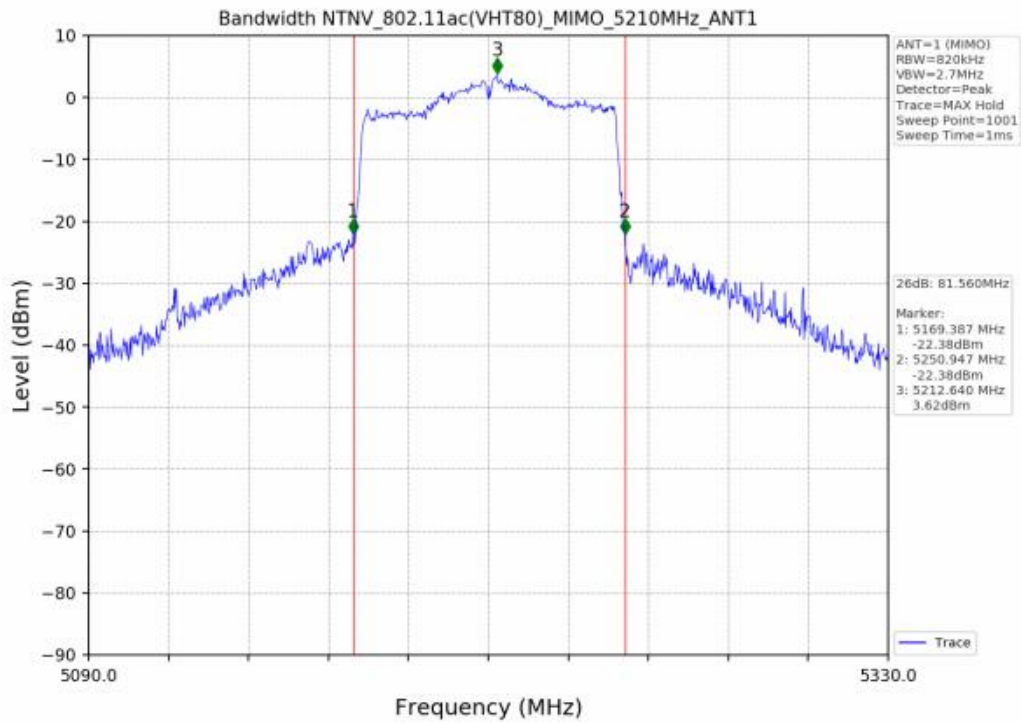


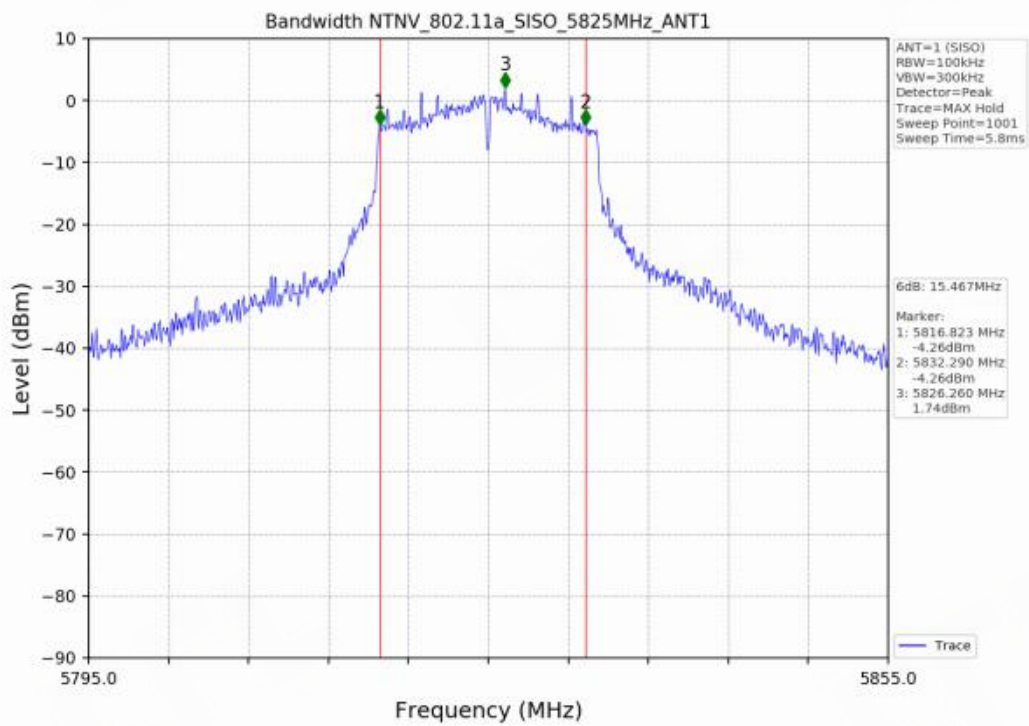
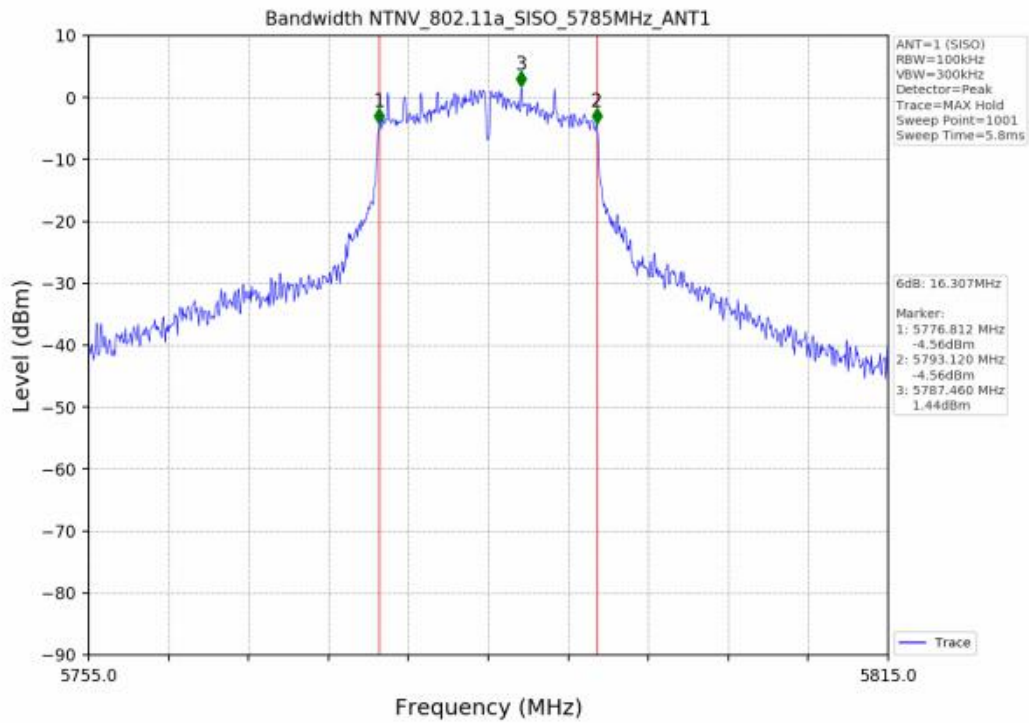


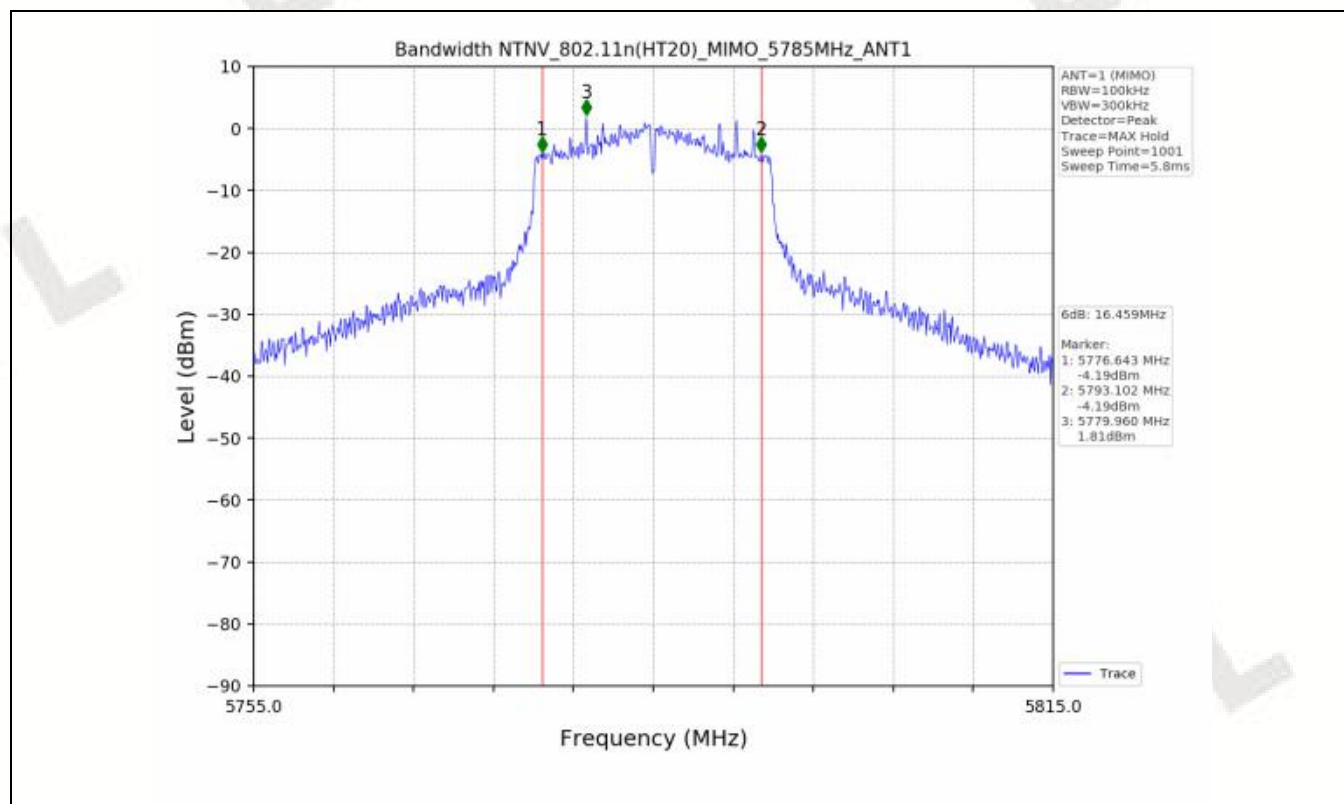
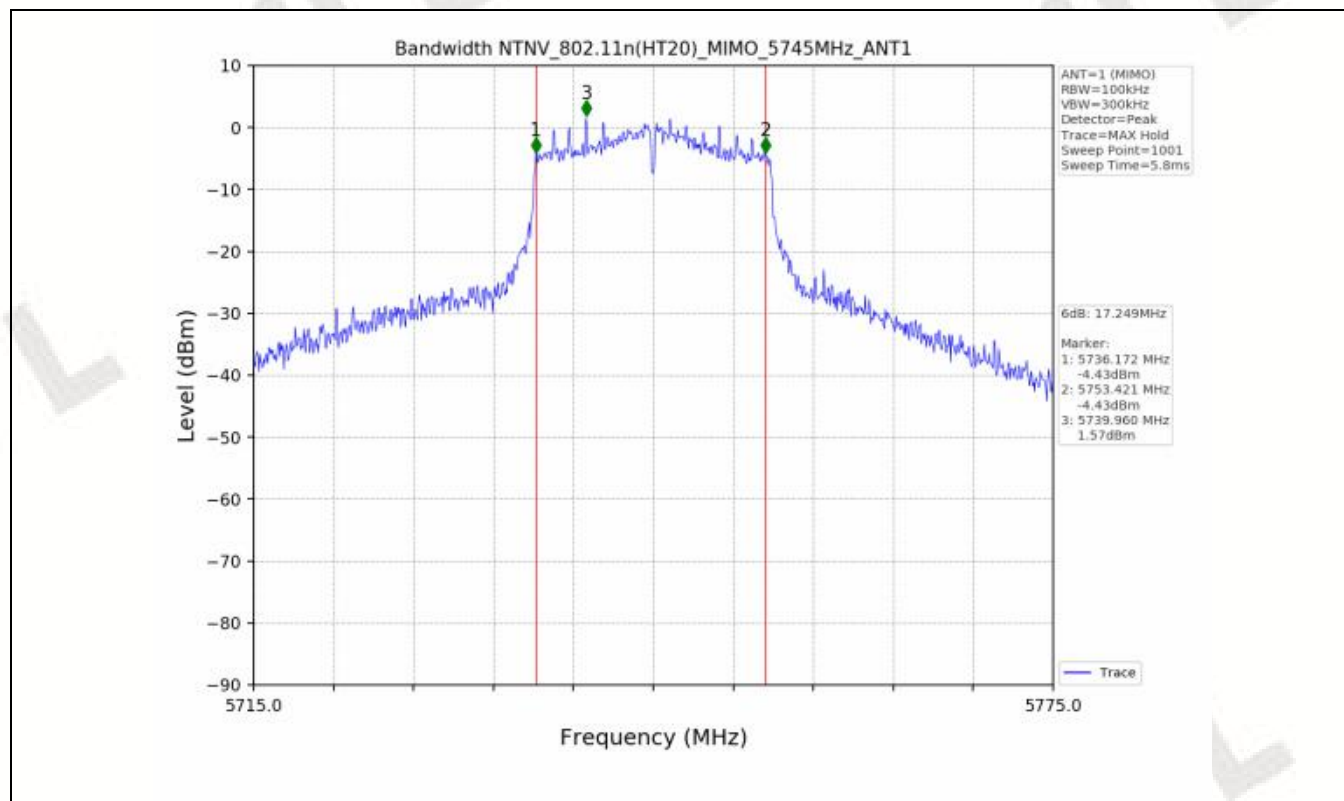


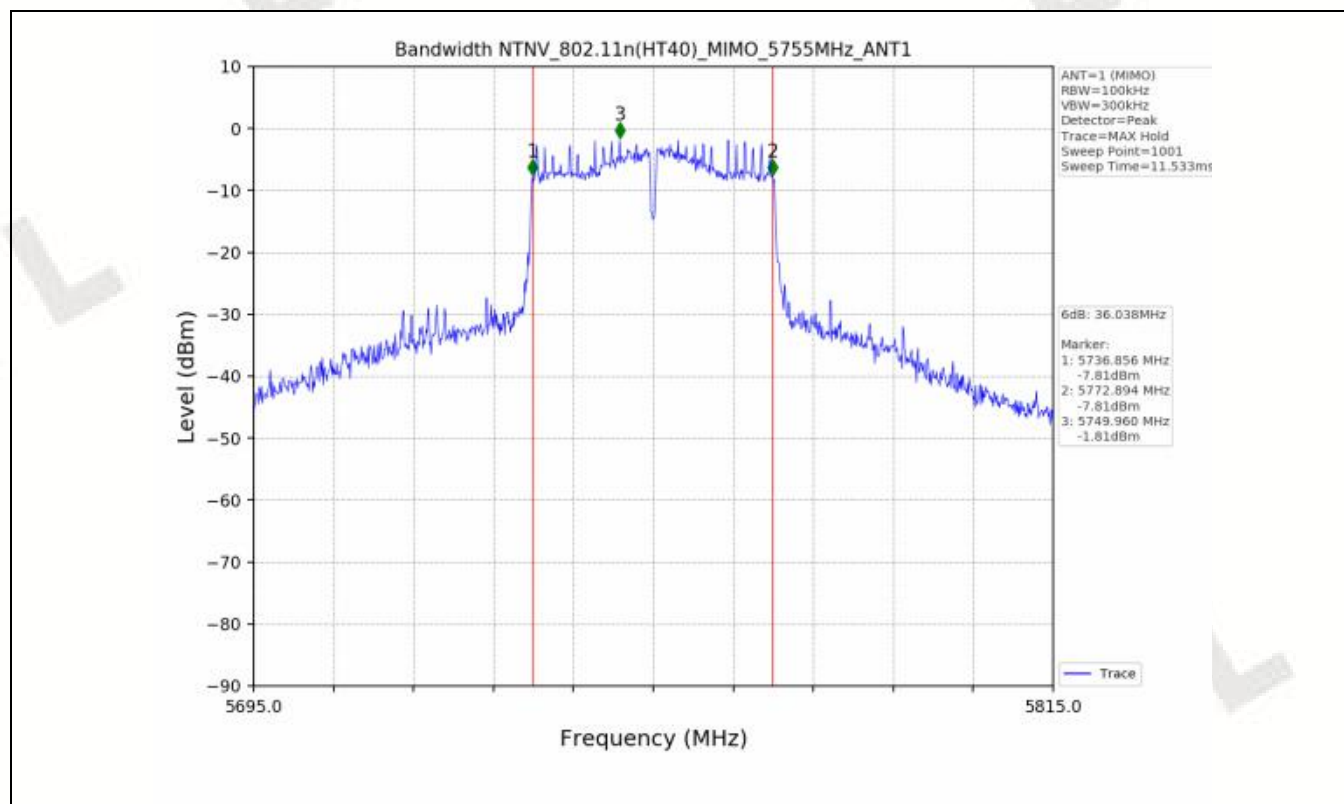
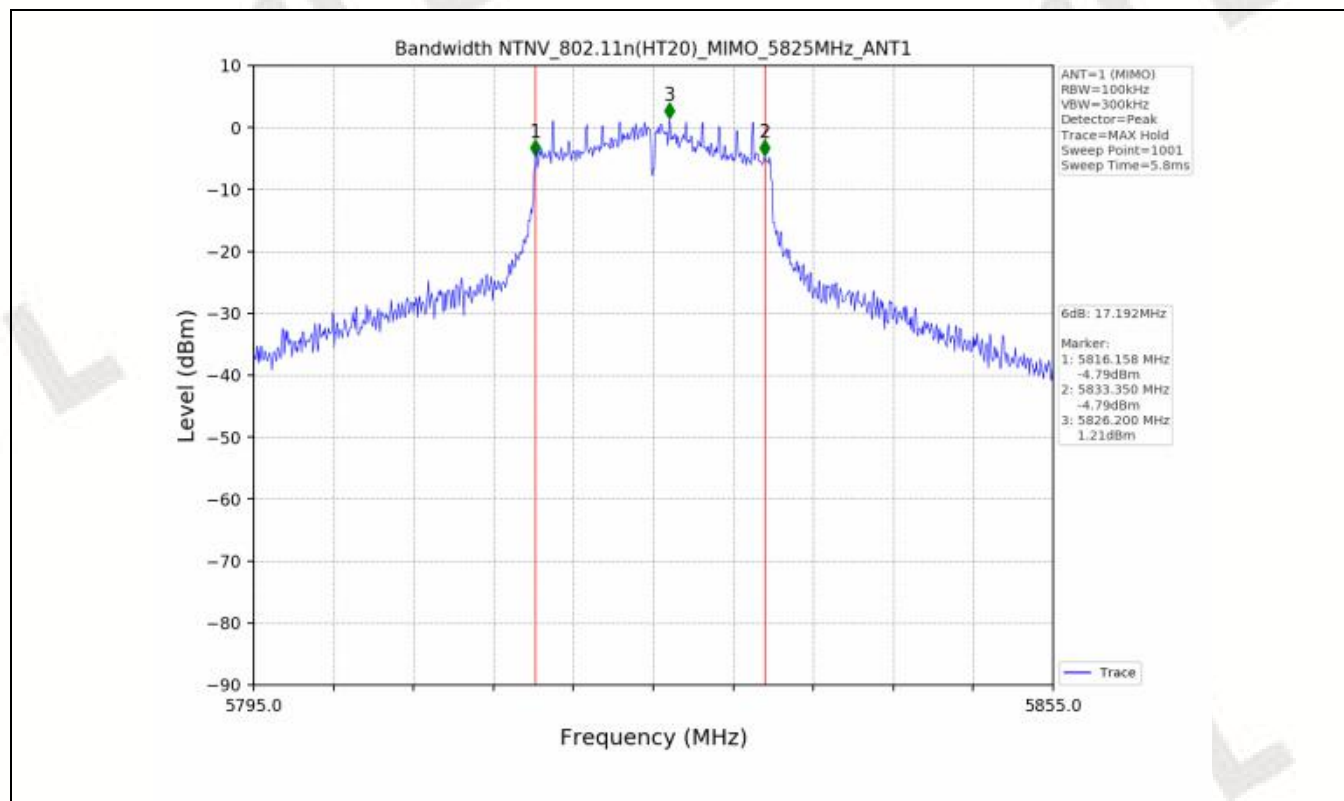


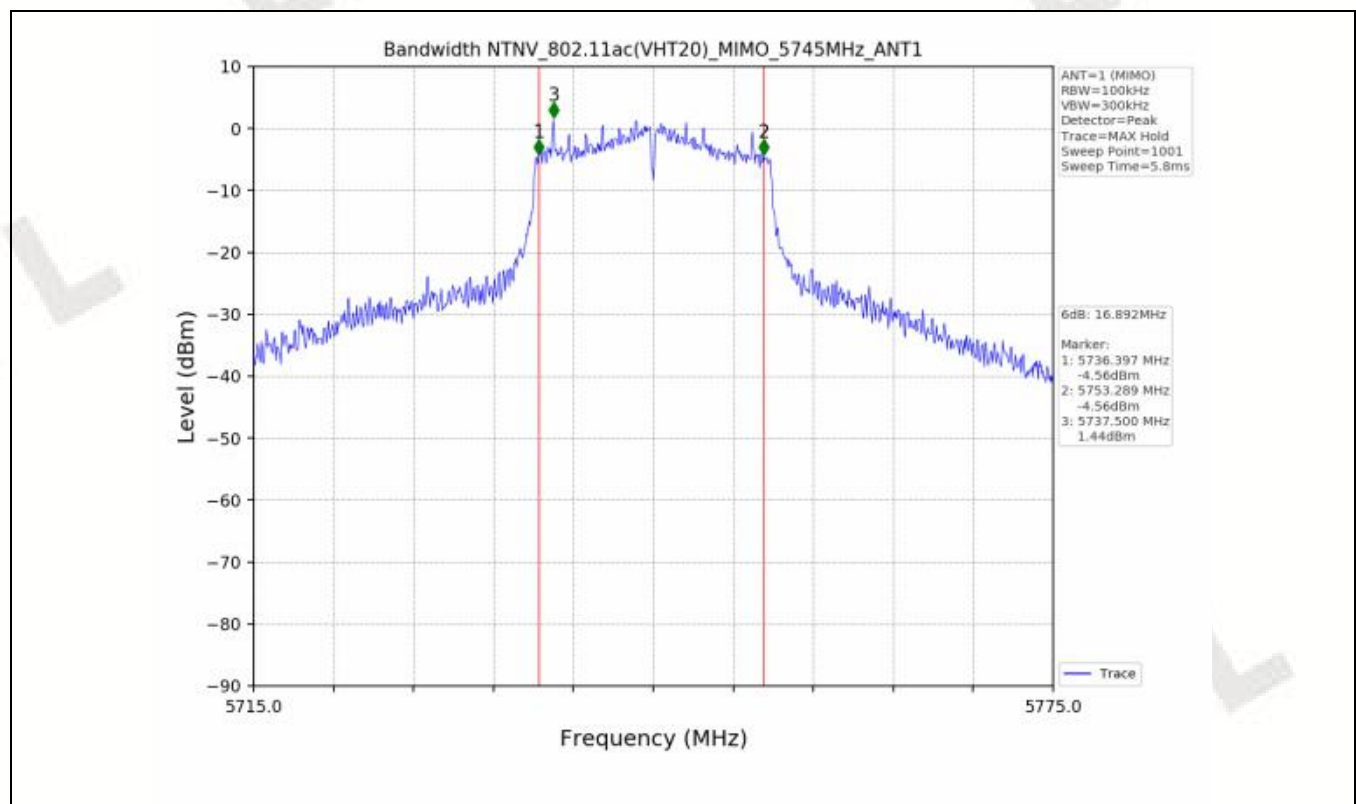
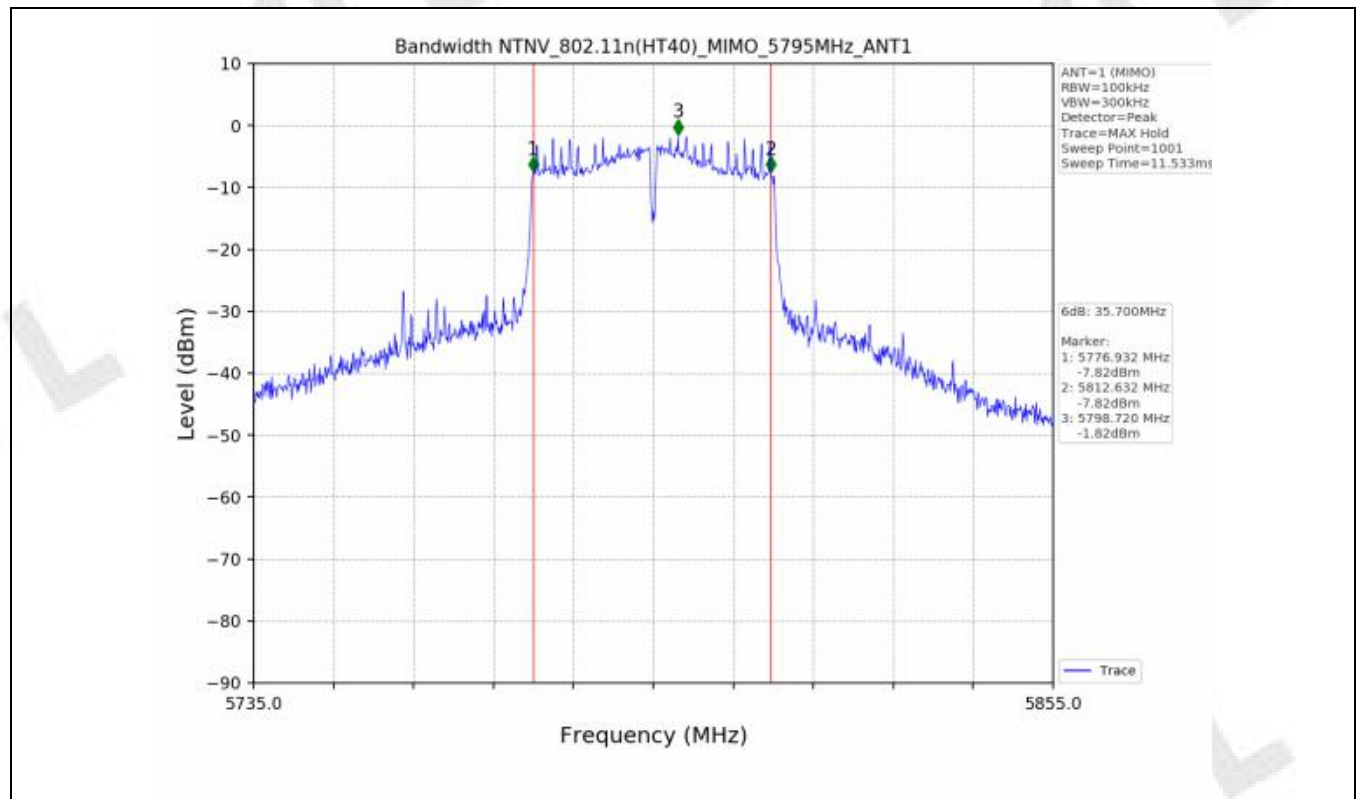


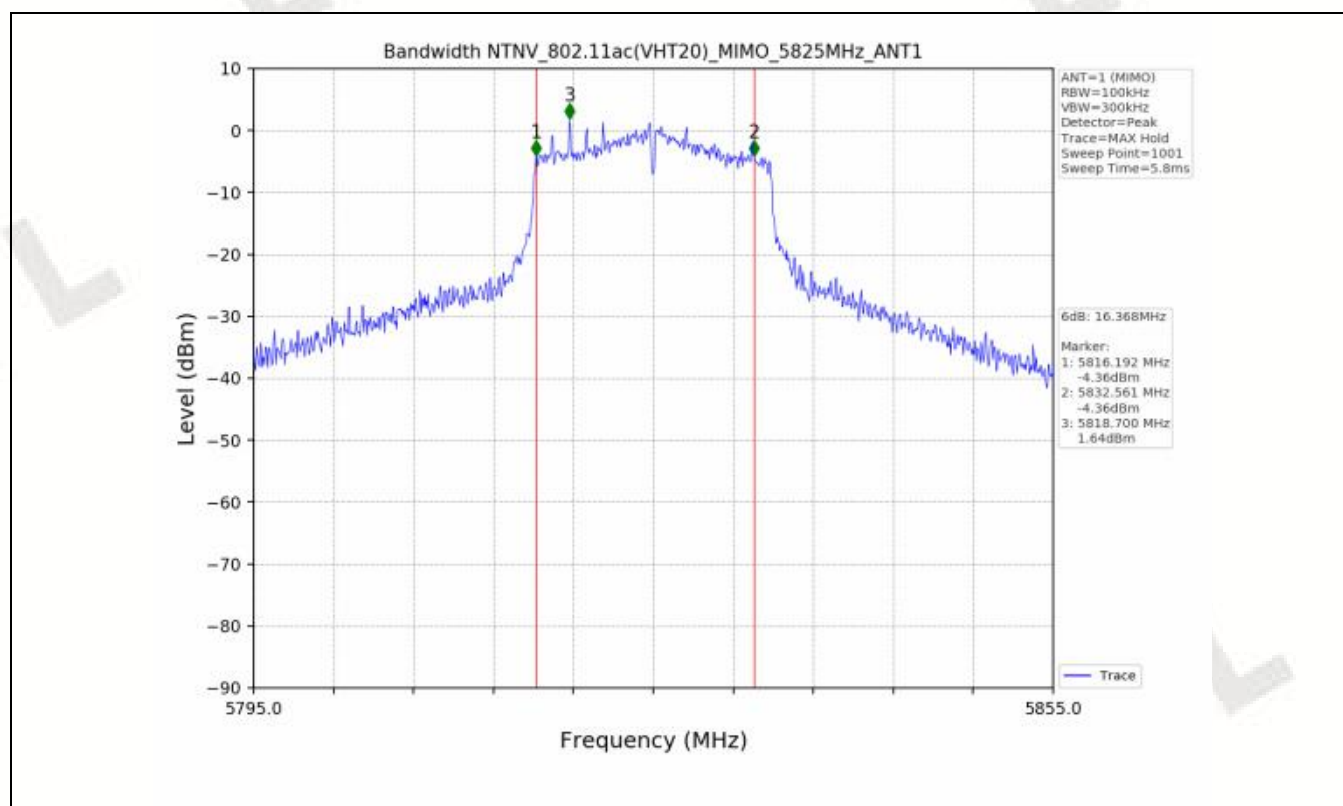
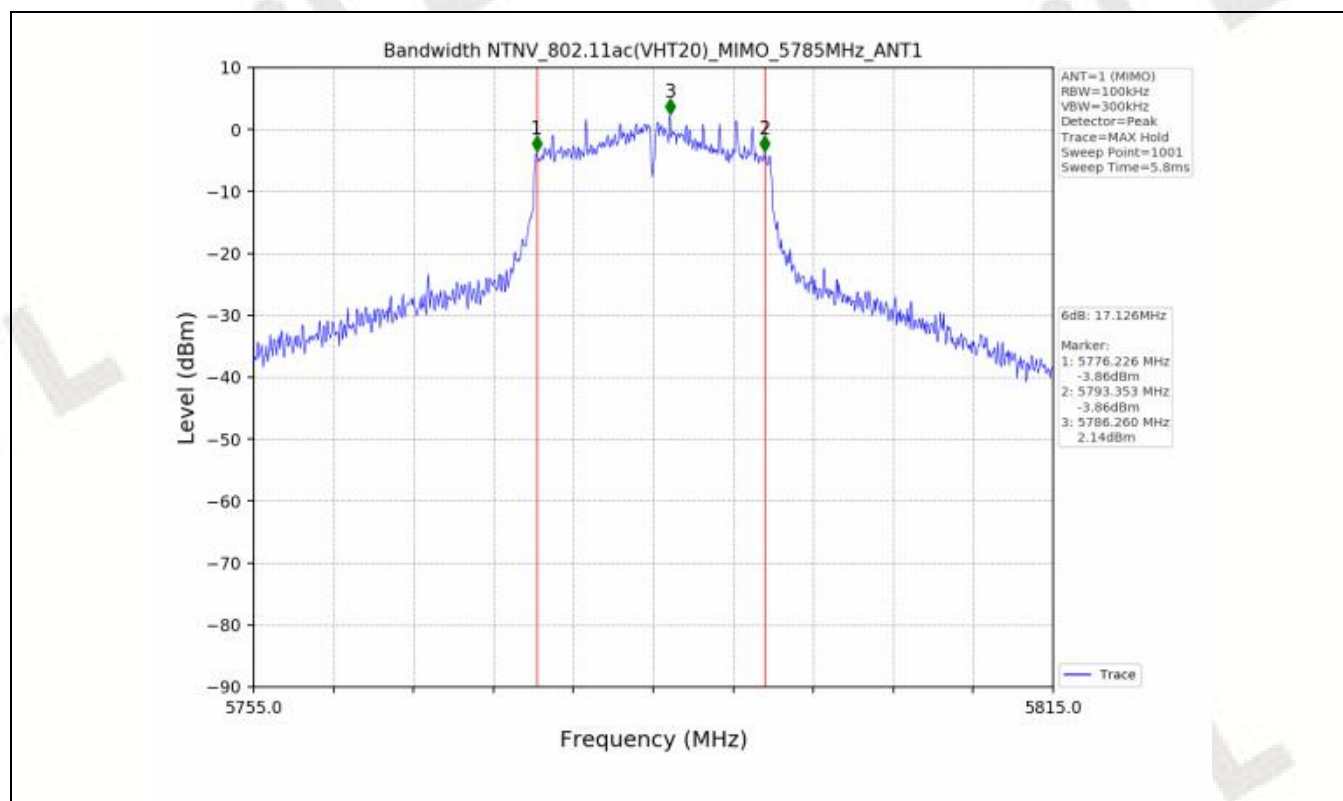


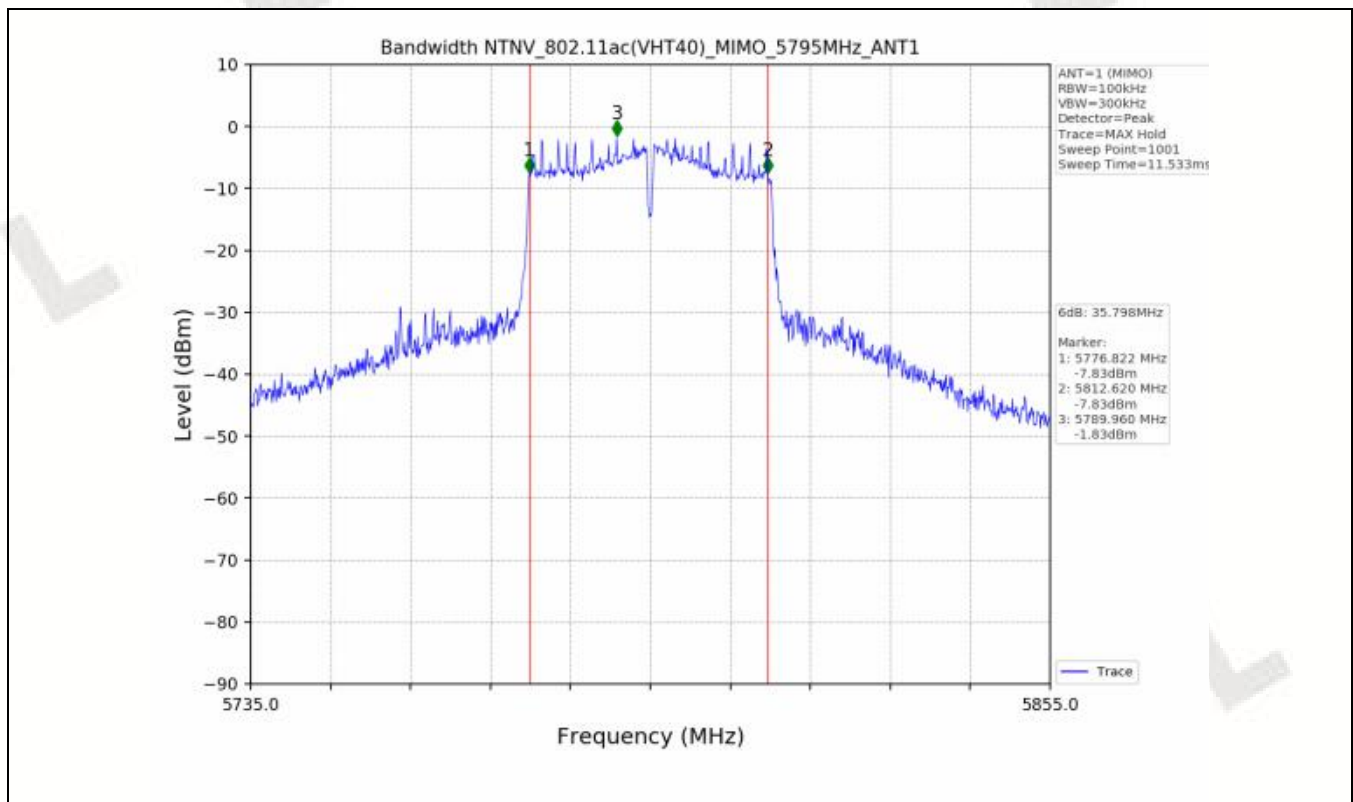
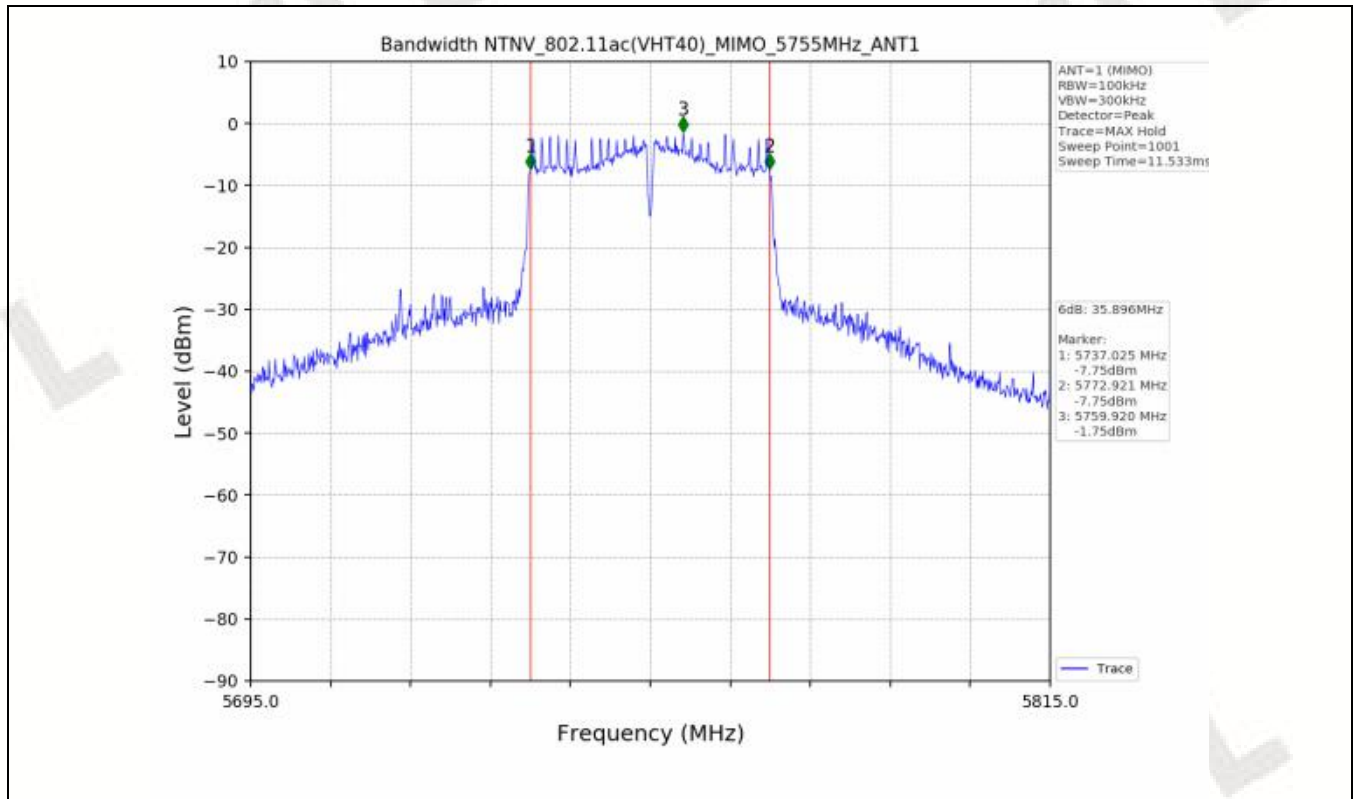


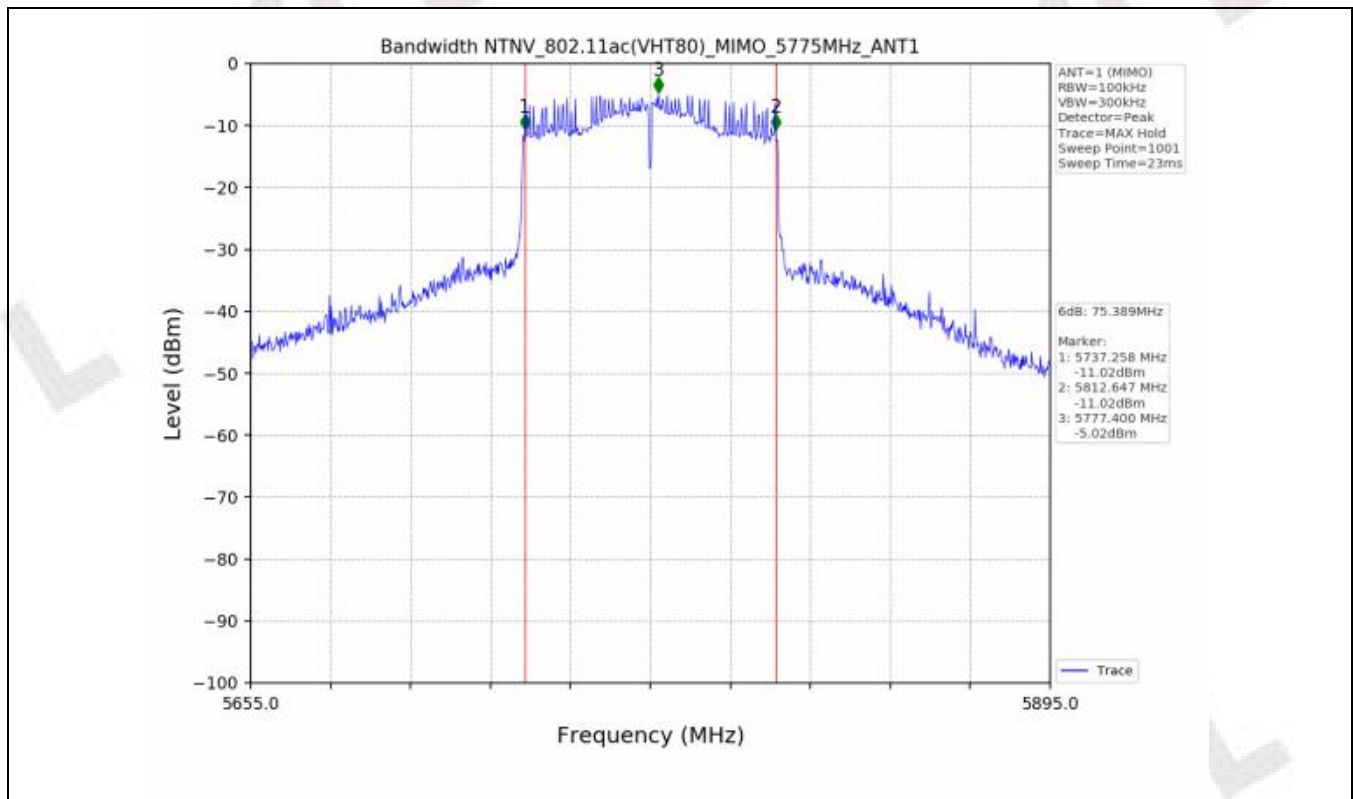




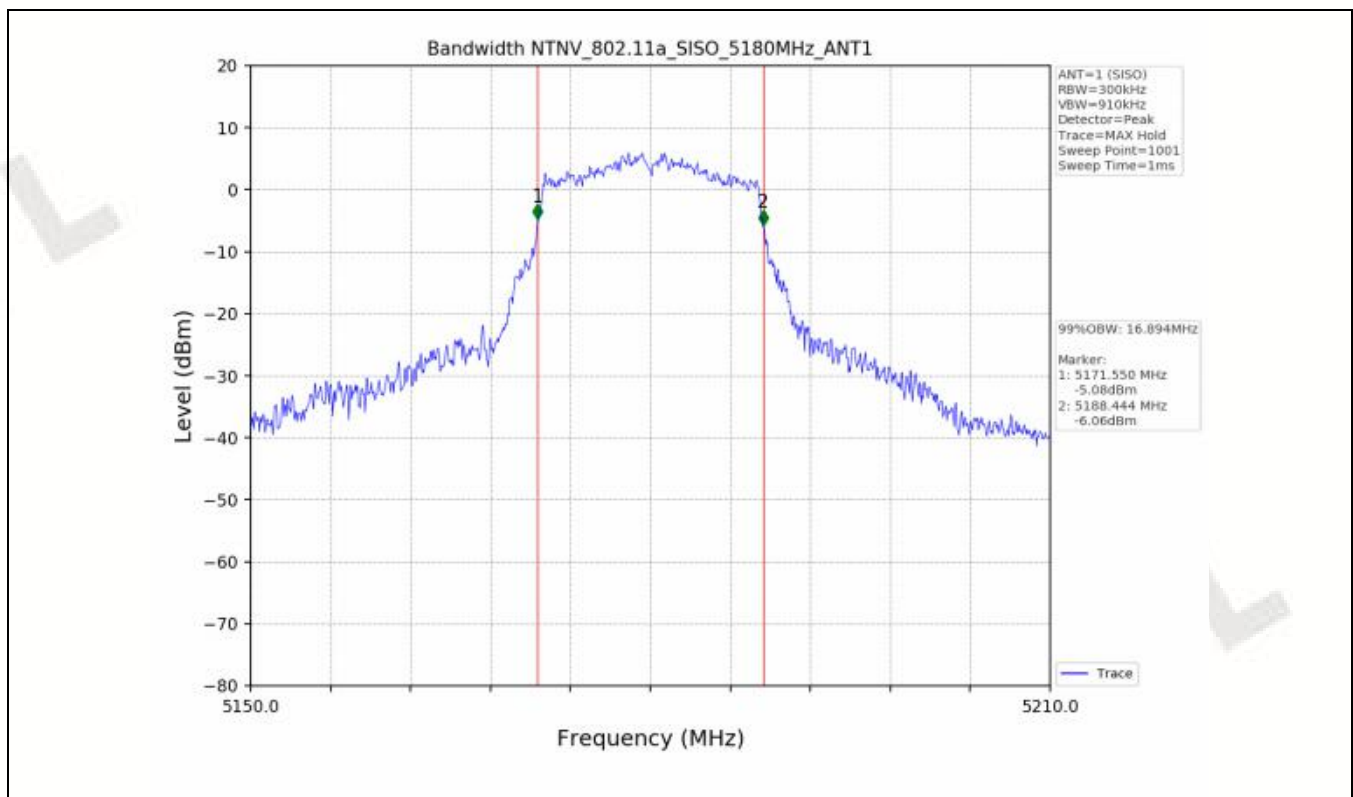


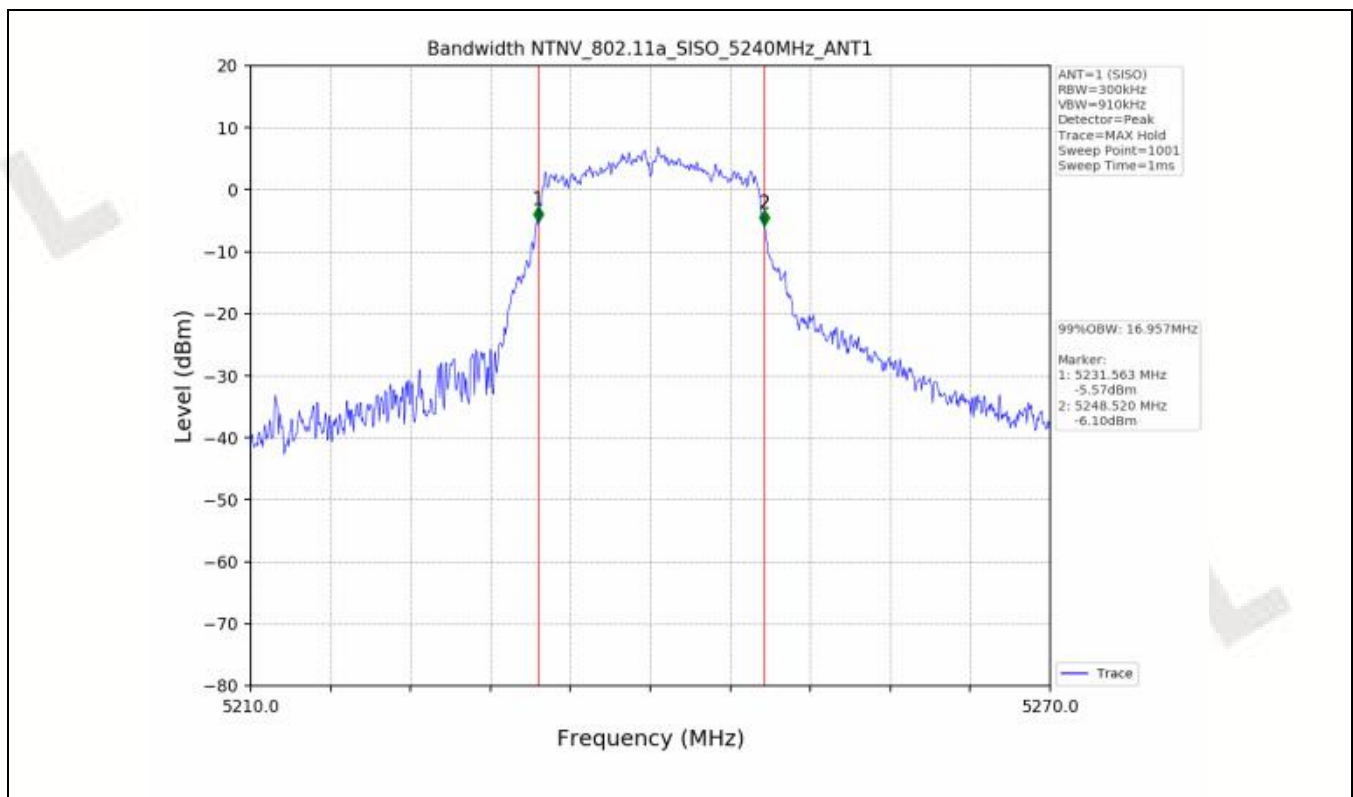
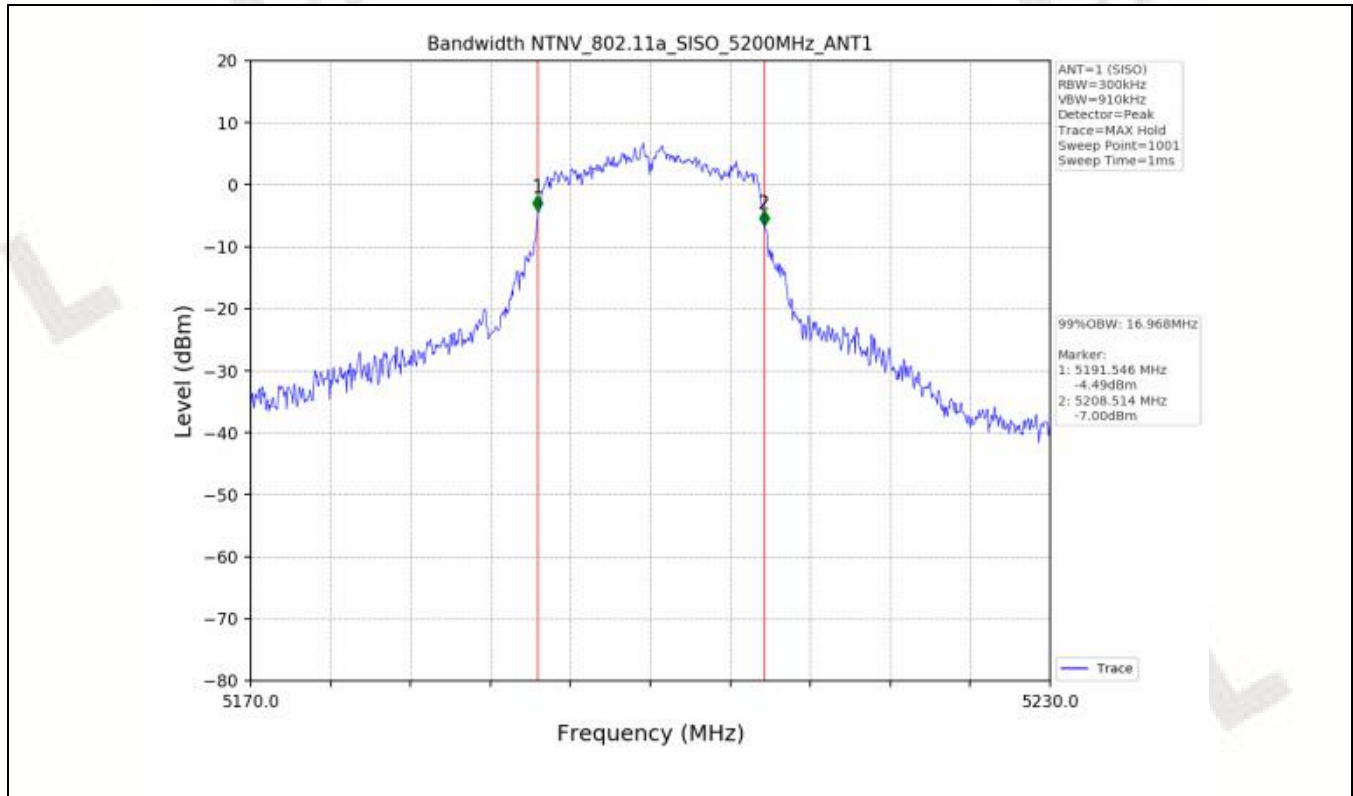


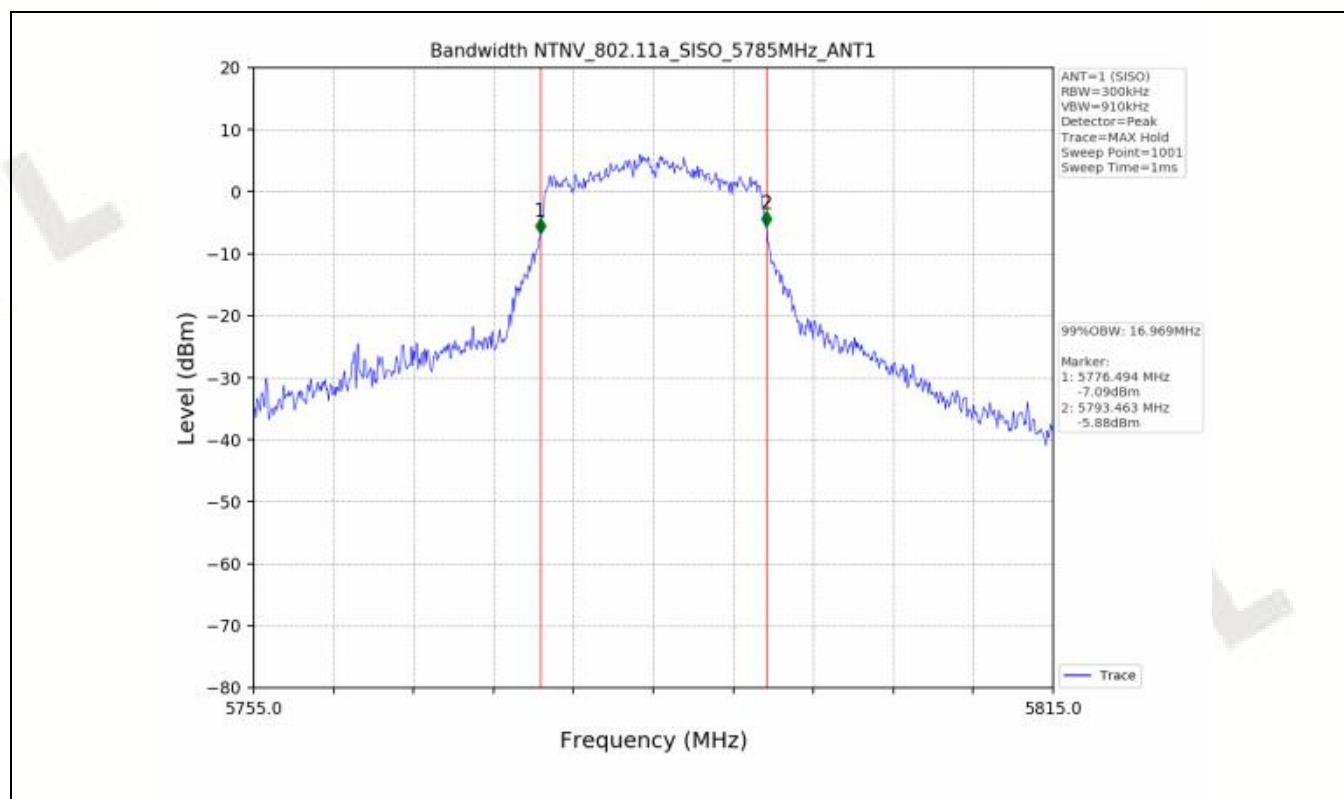
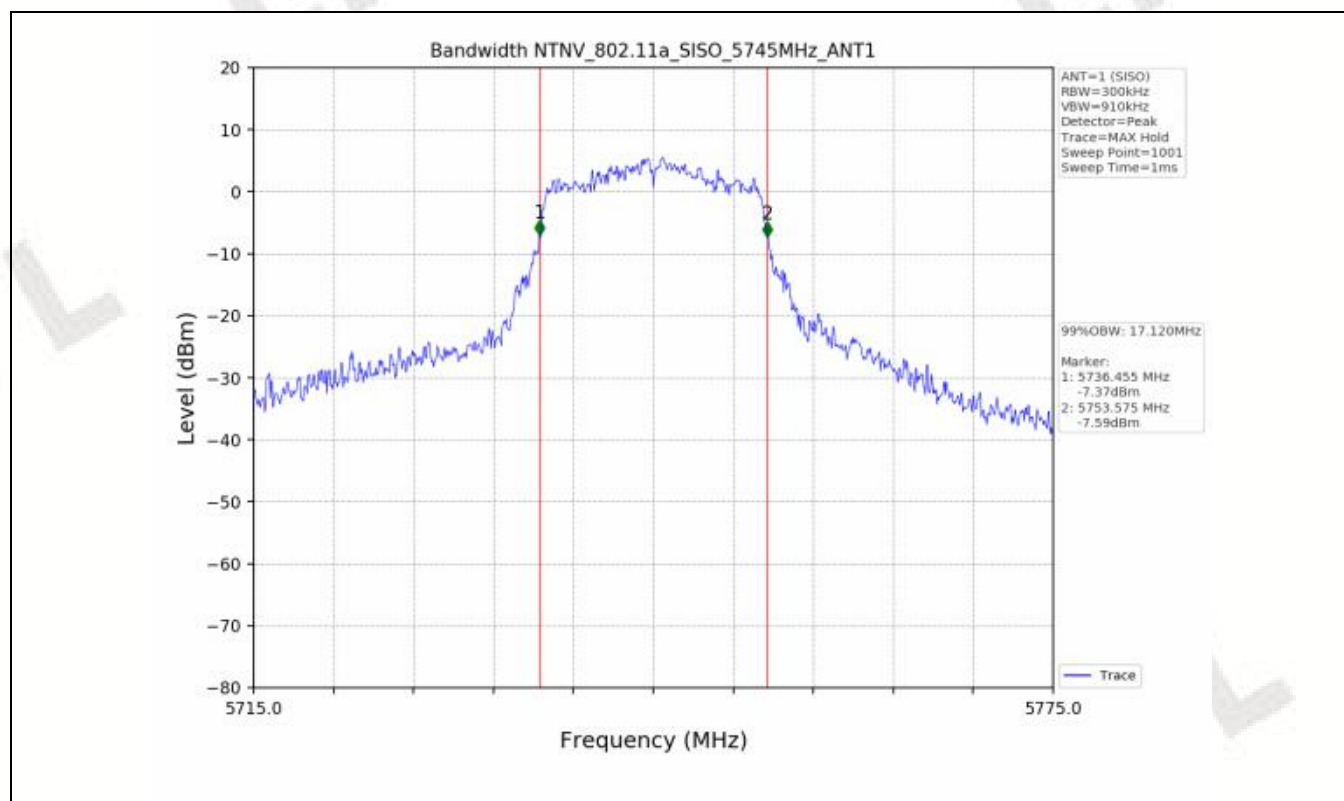


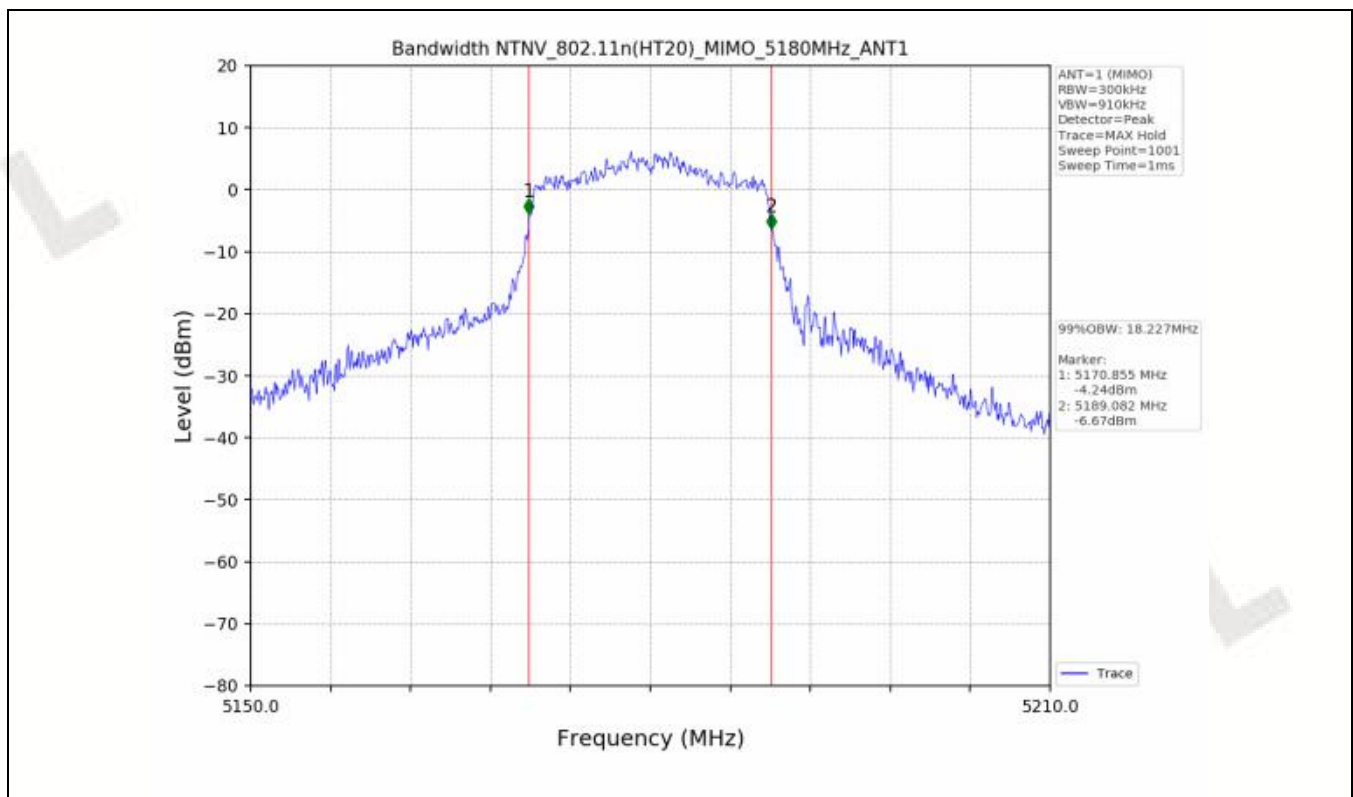
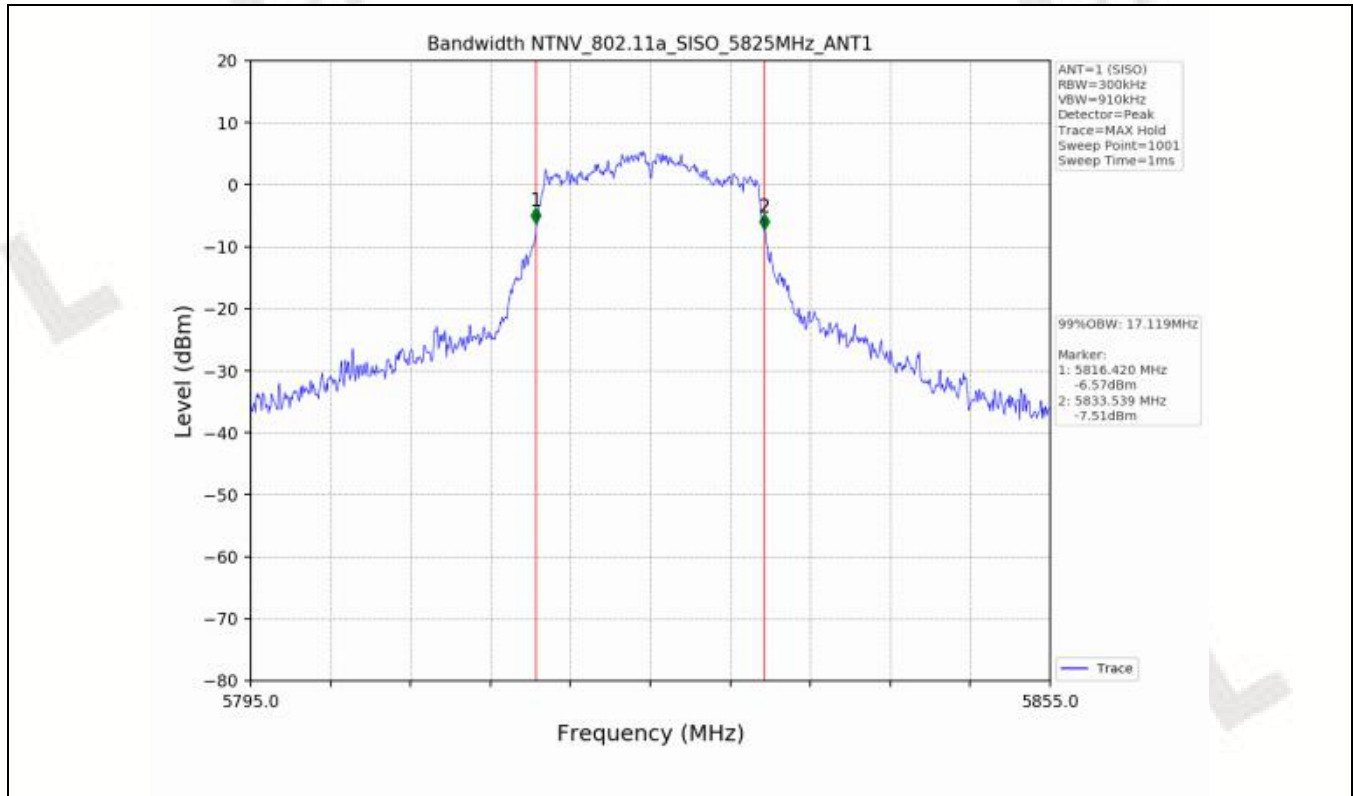


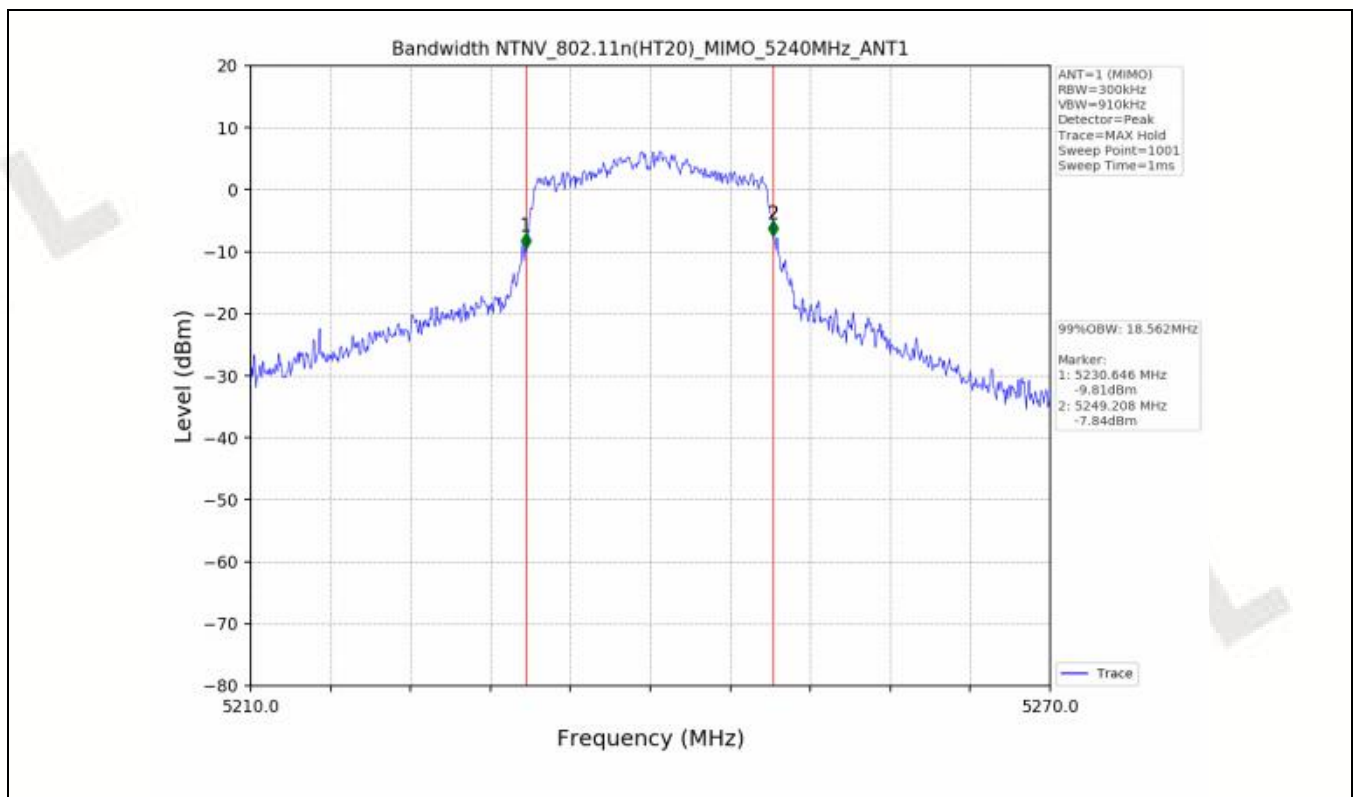
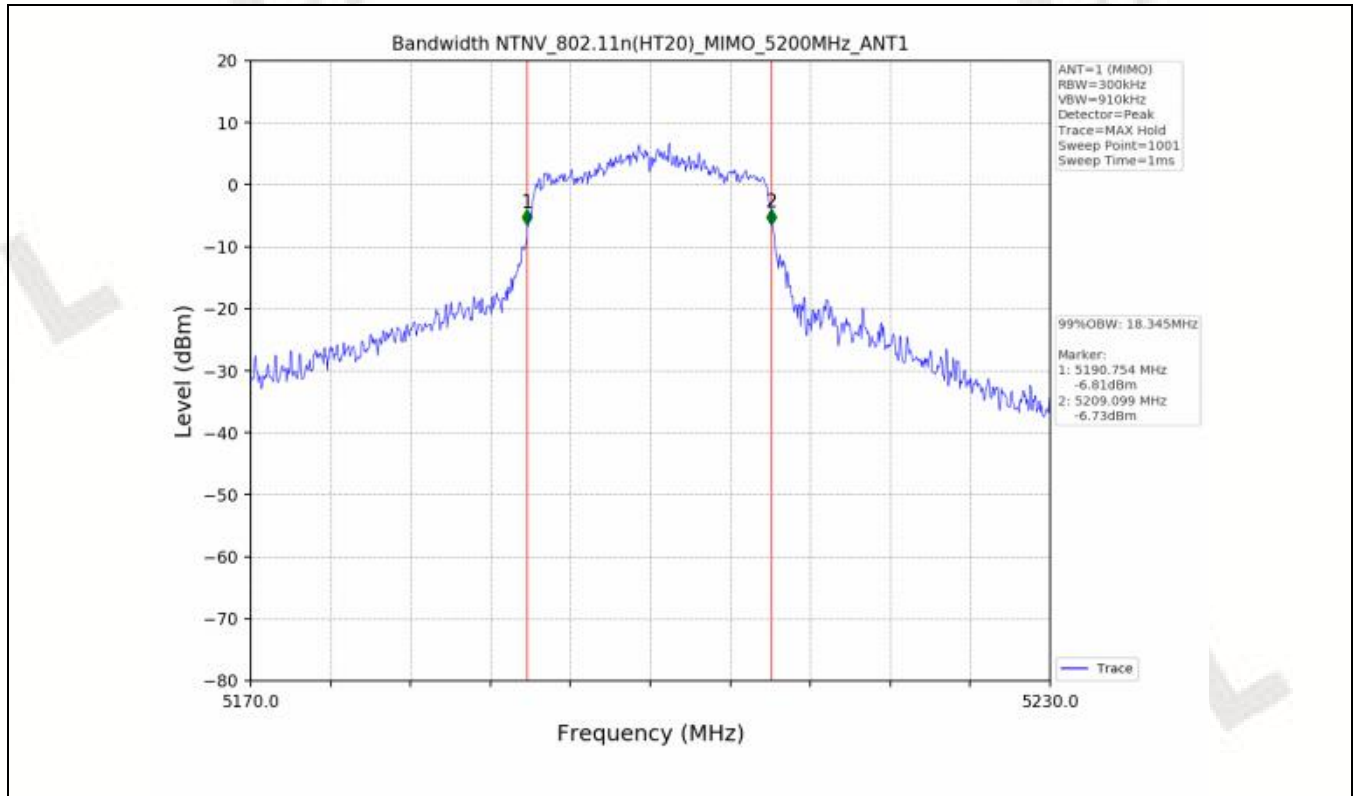
1.3 Test Graph - 99% Occupied Bandwidth

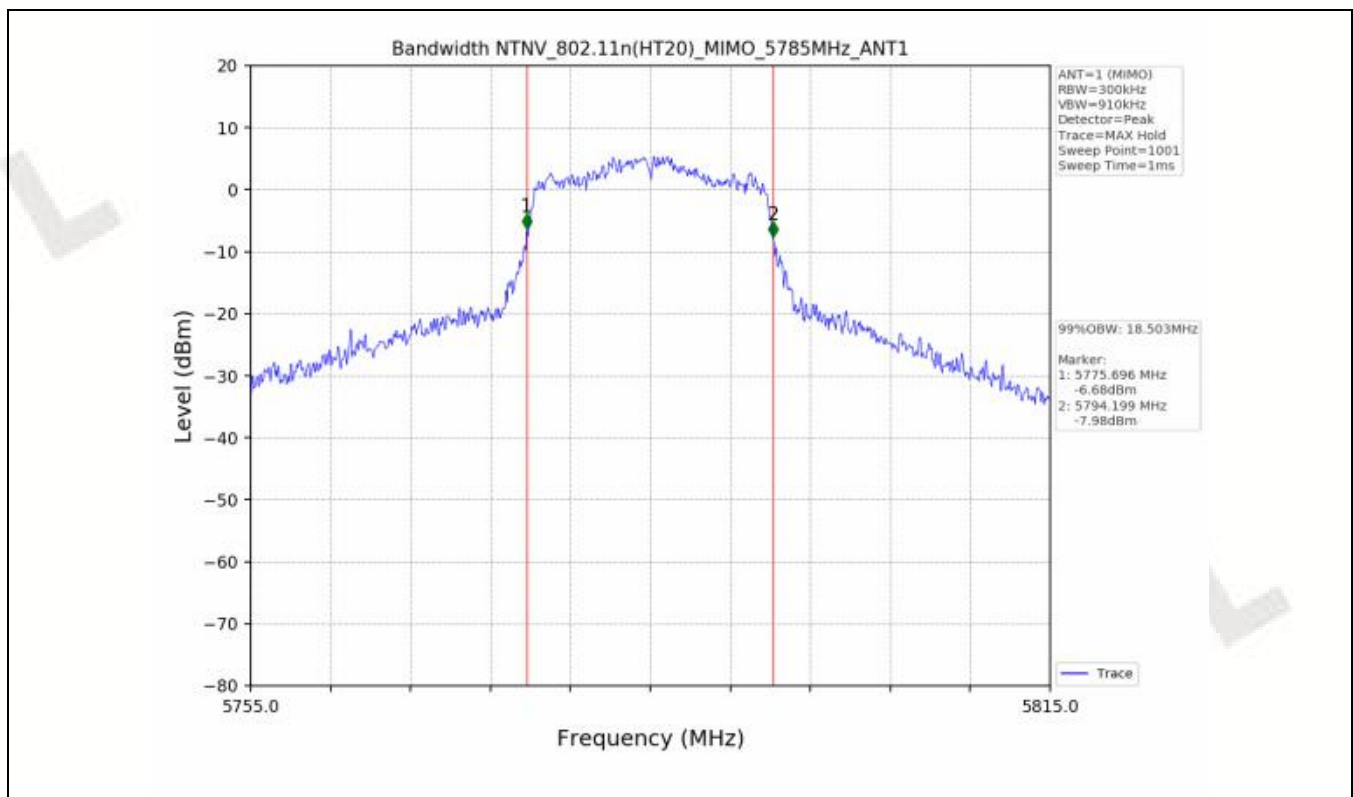
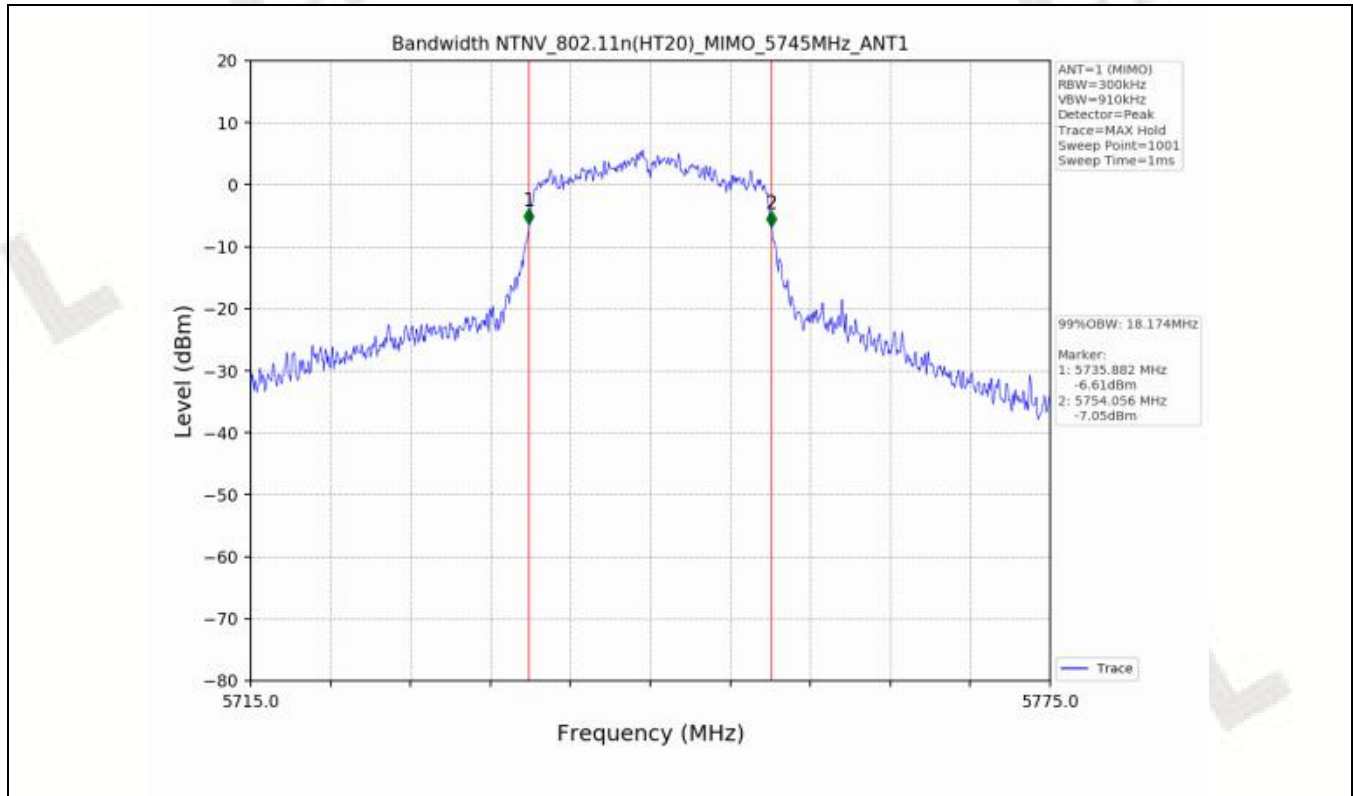


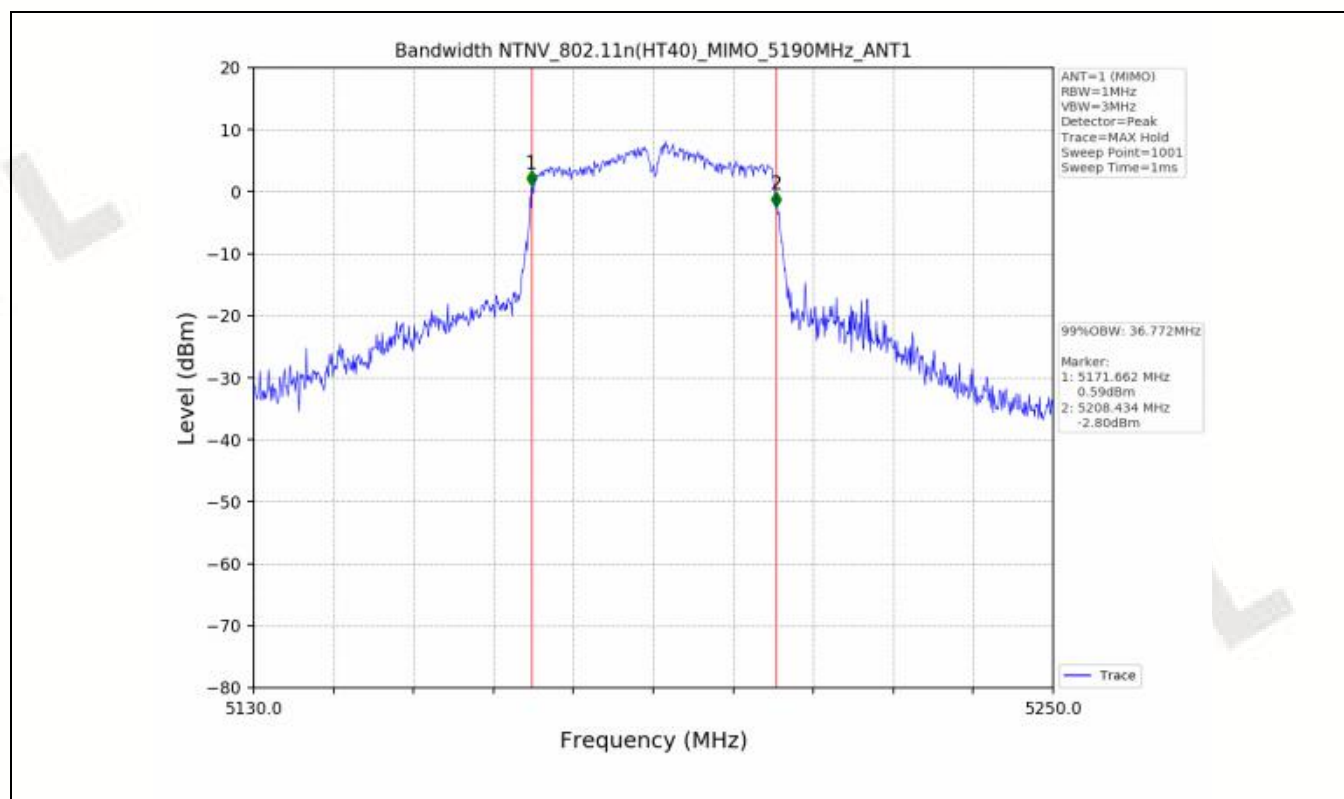
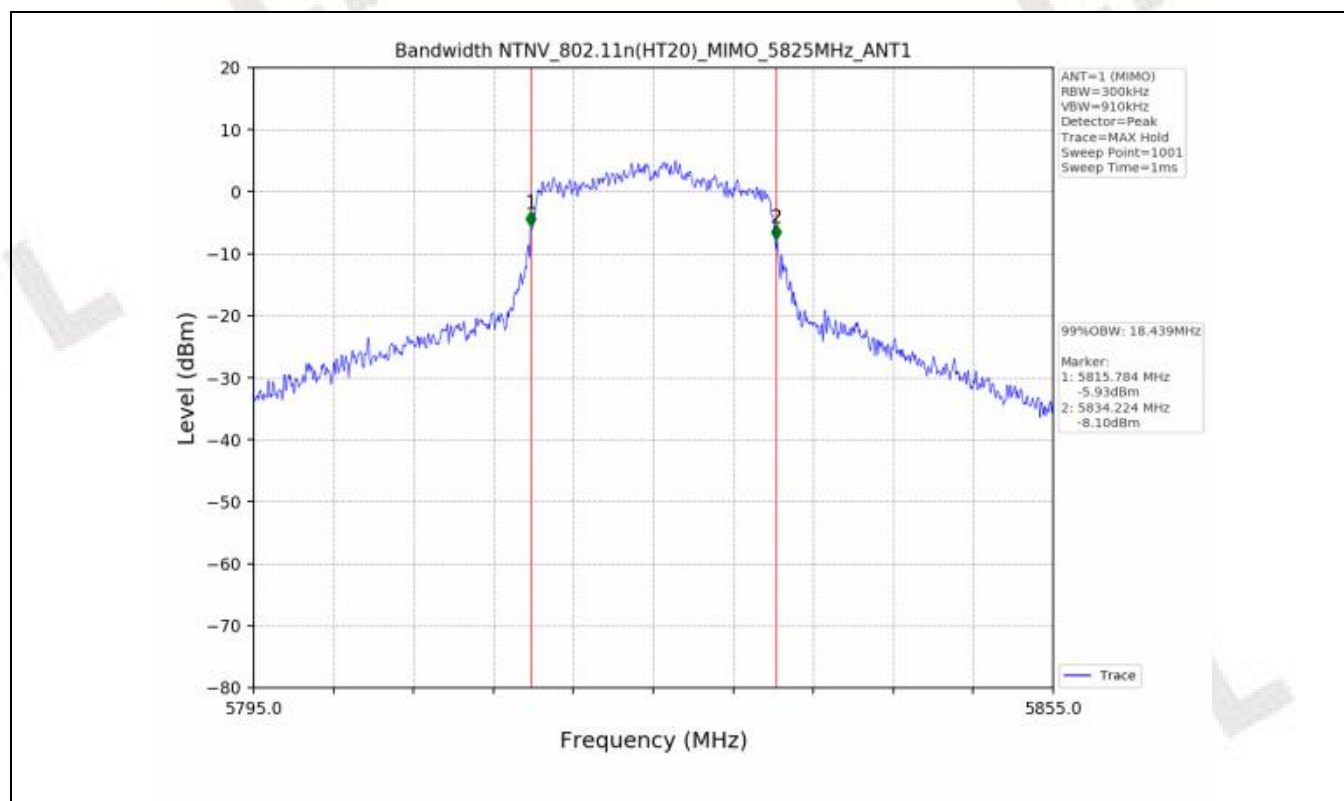


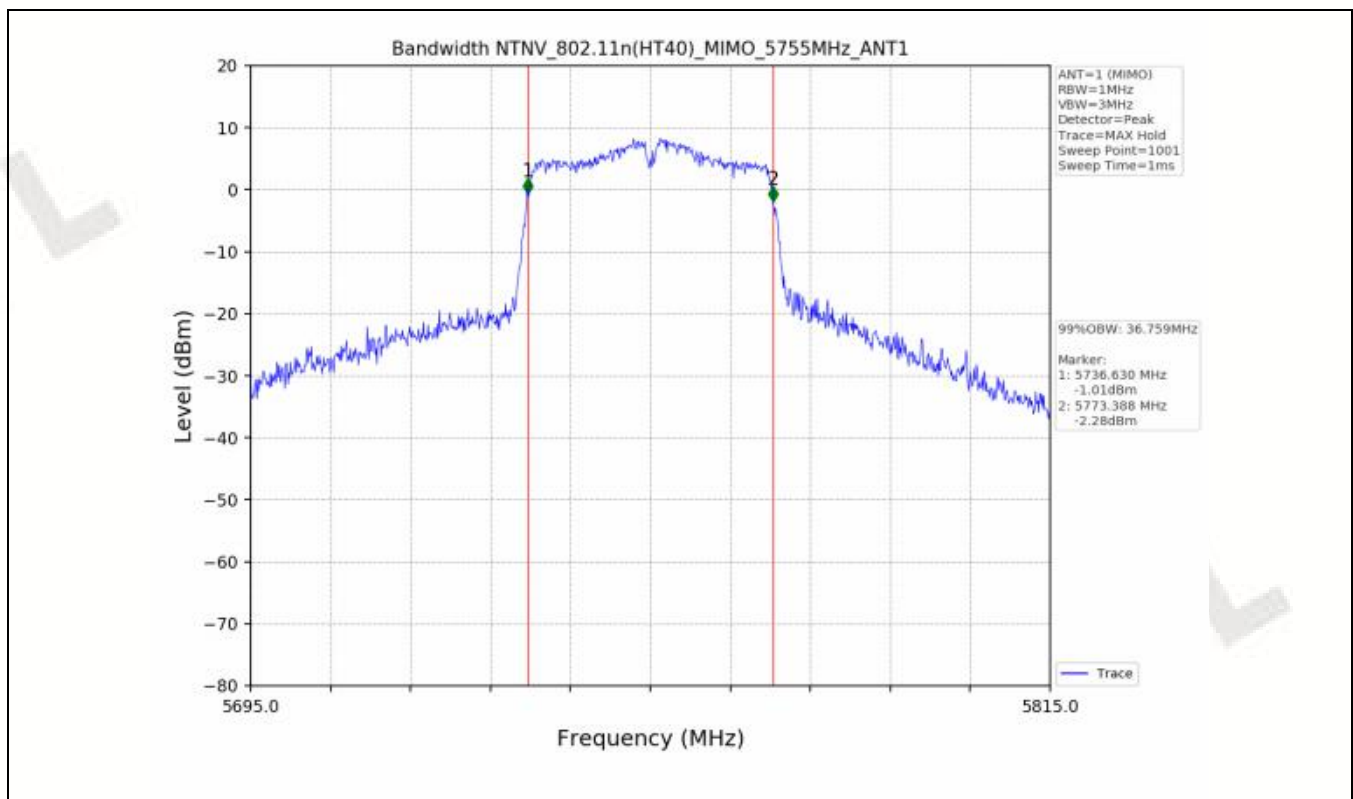
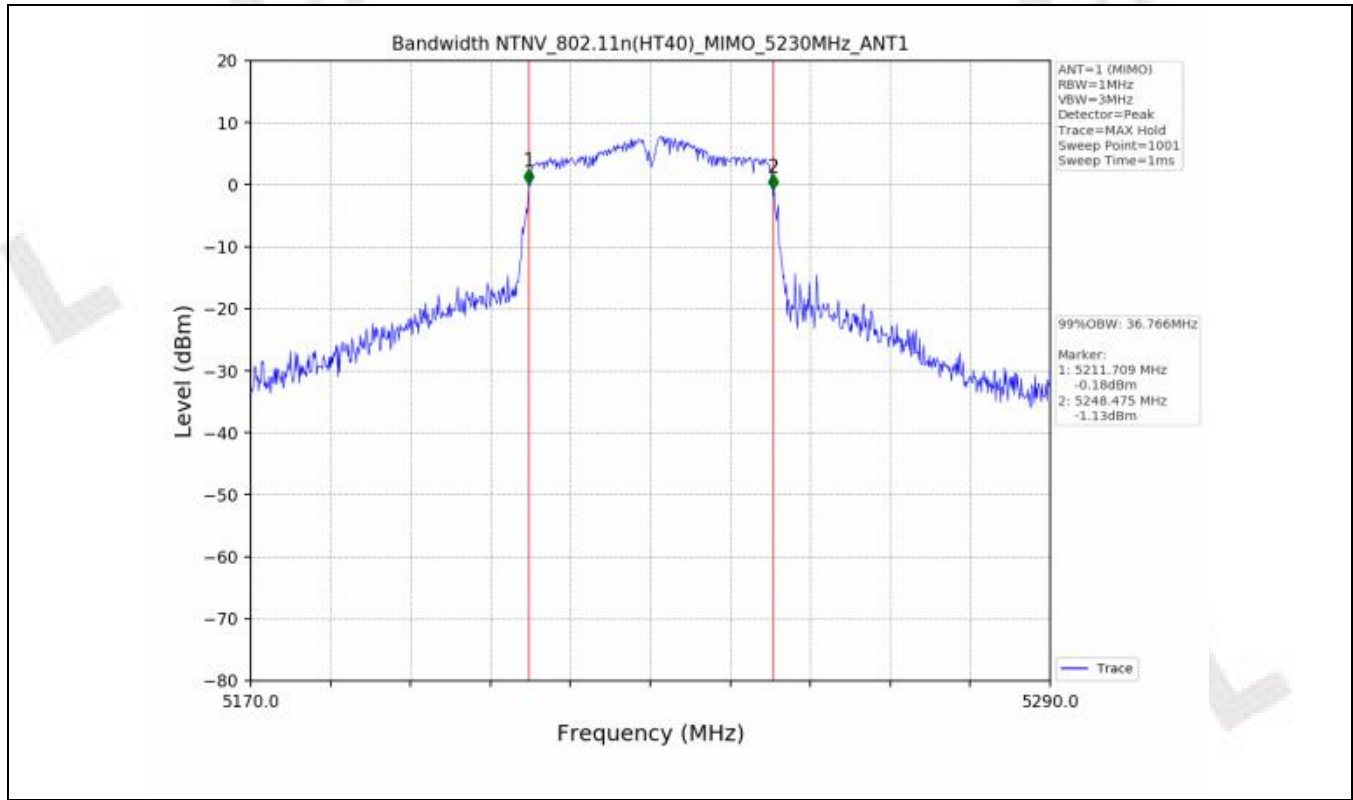


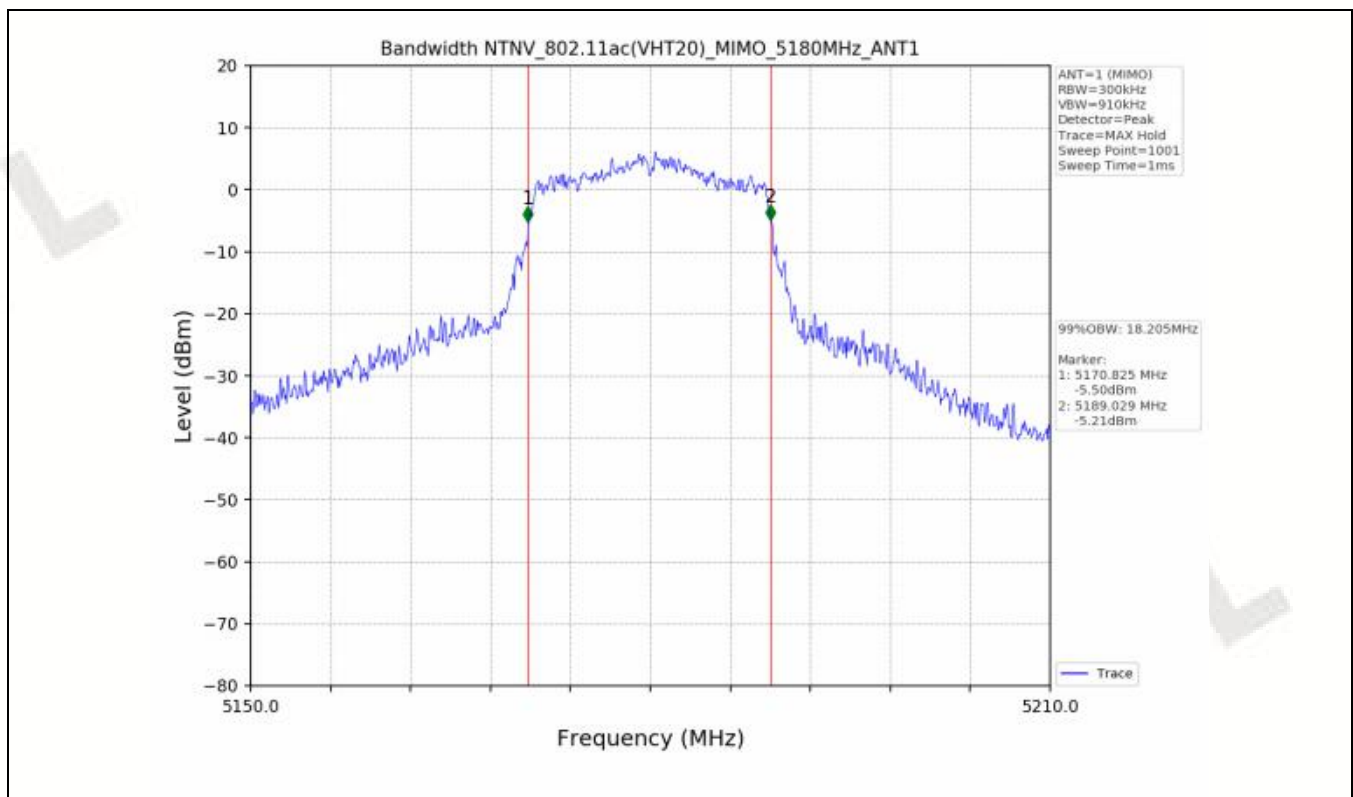
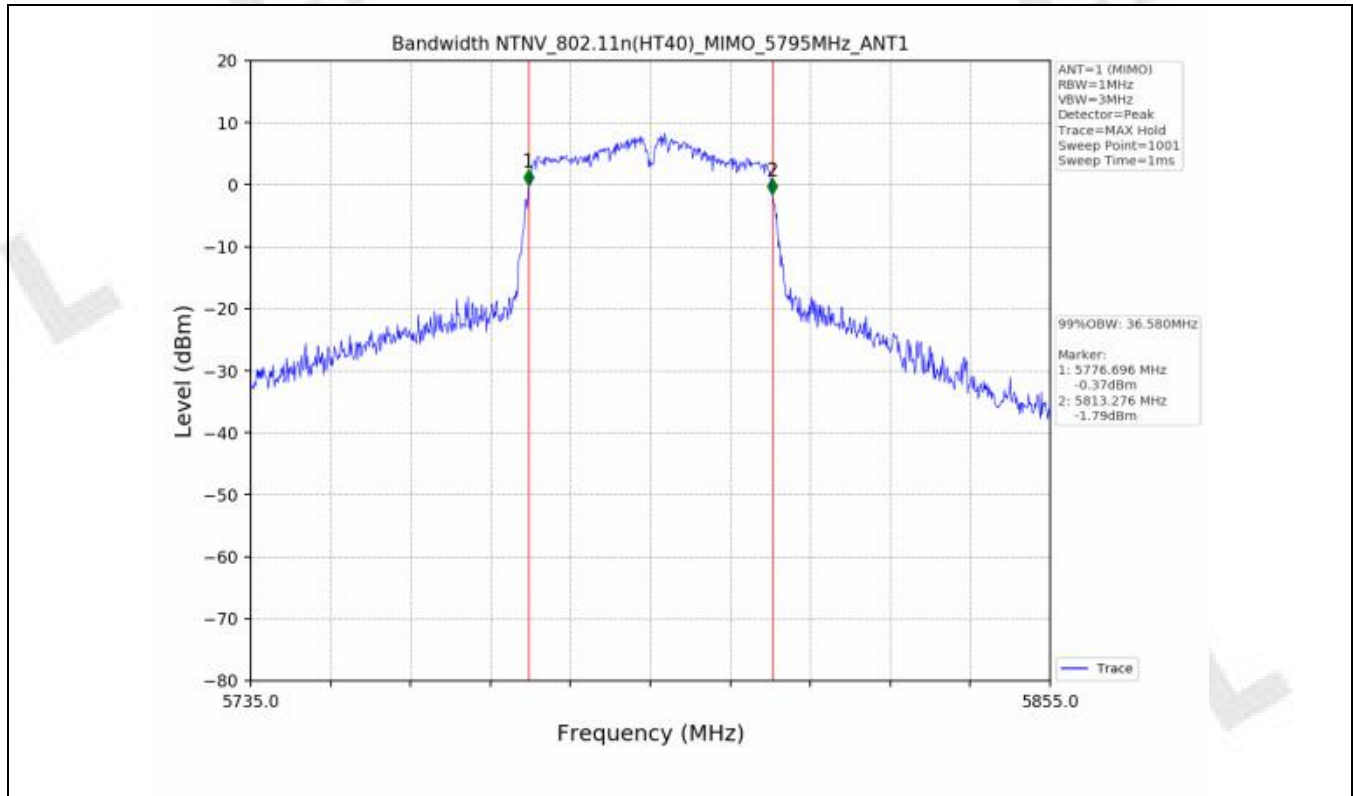


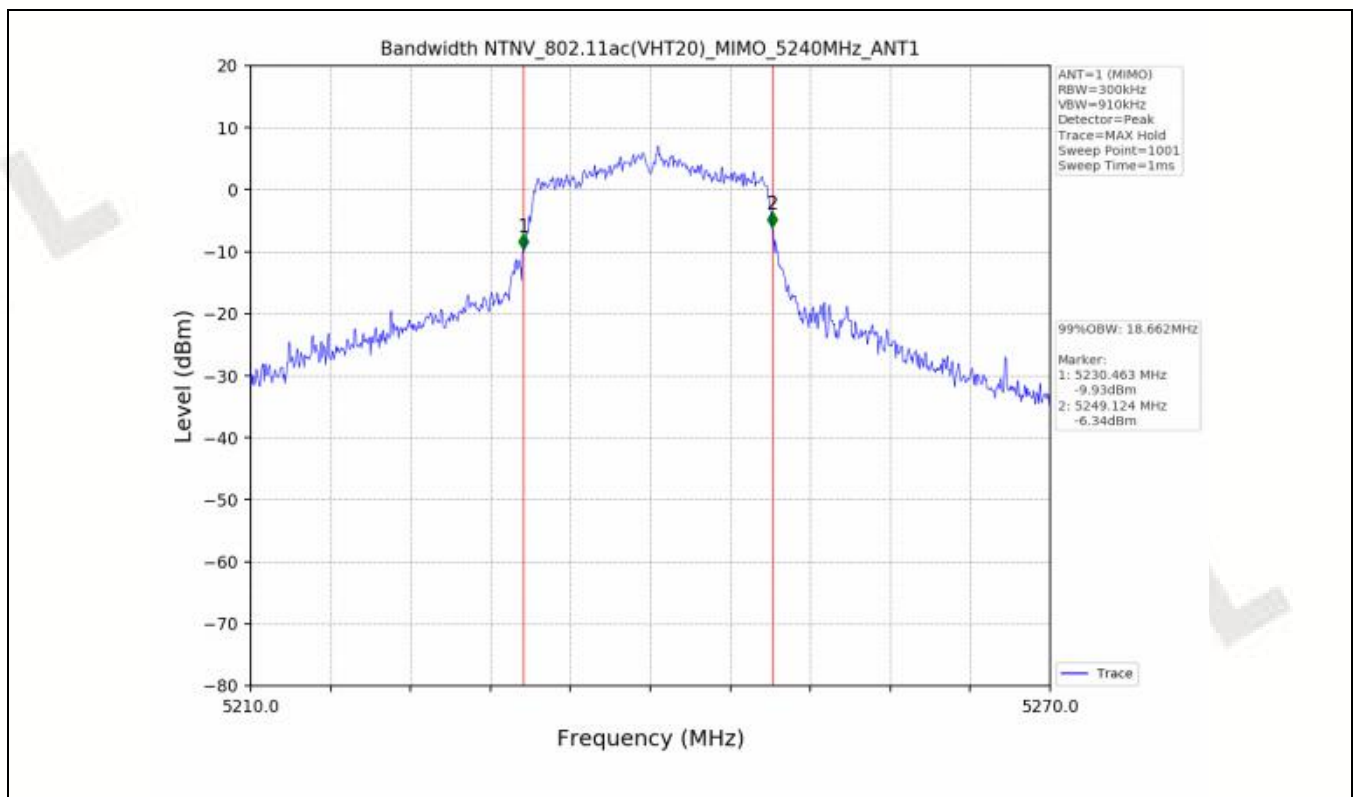
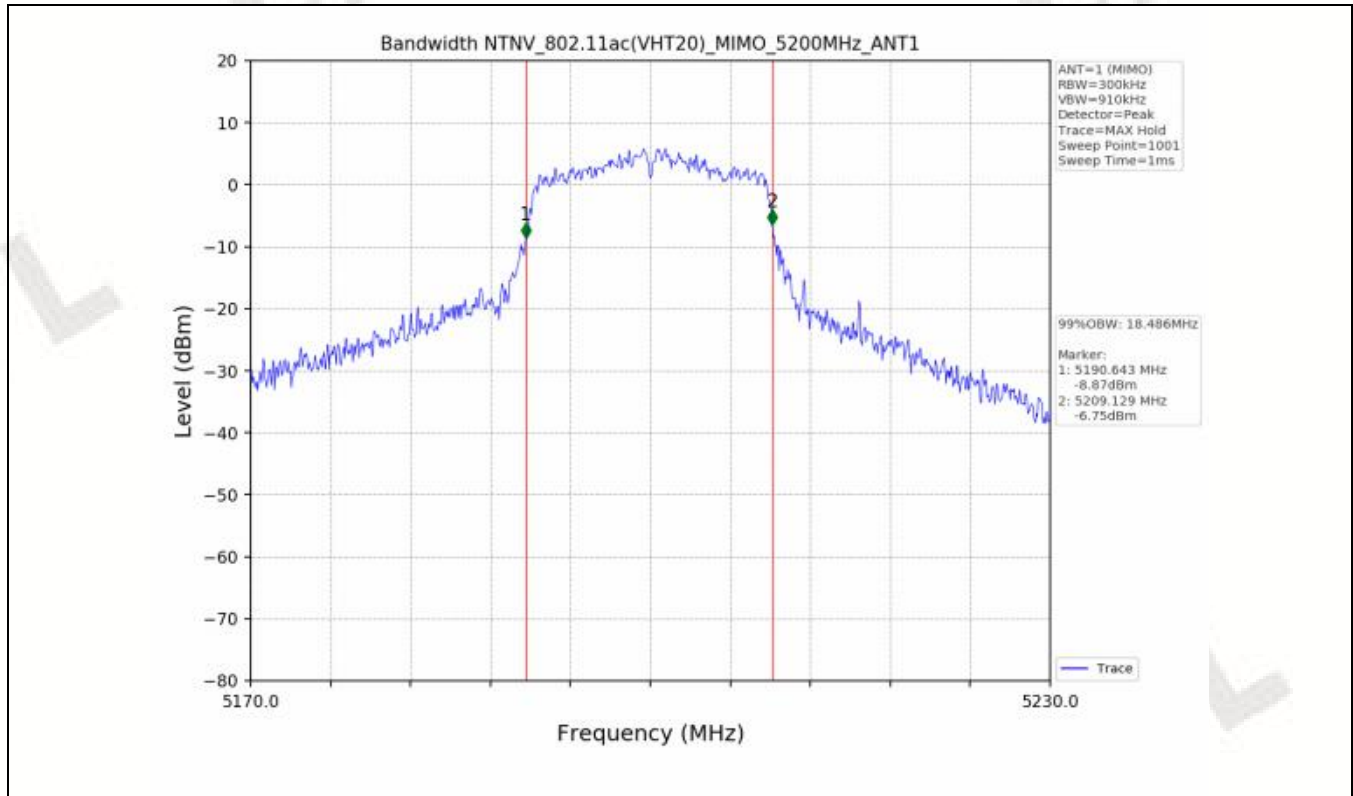


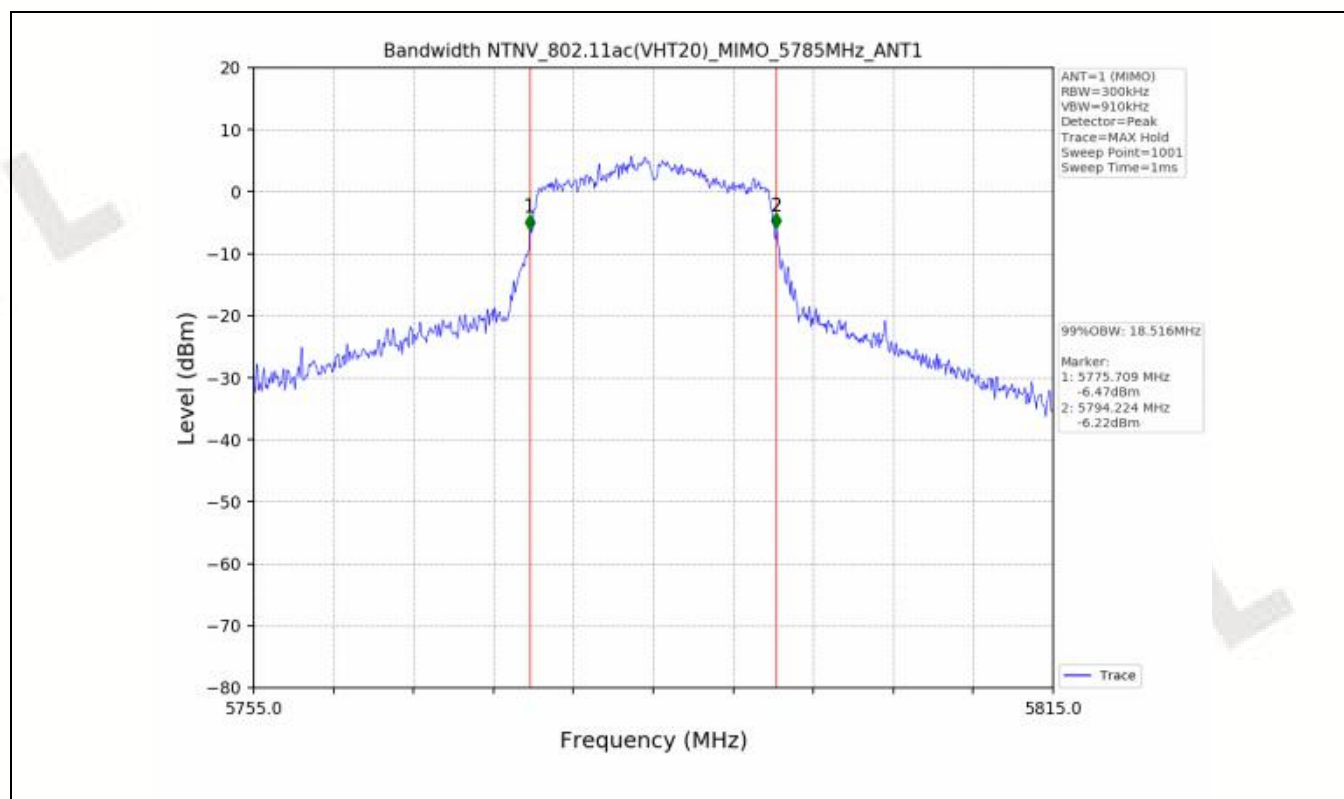
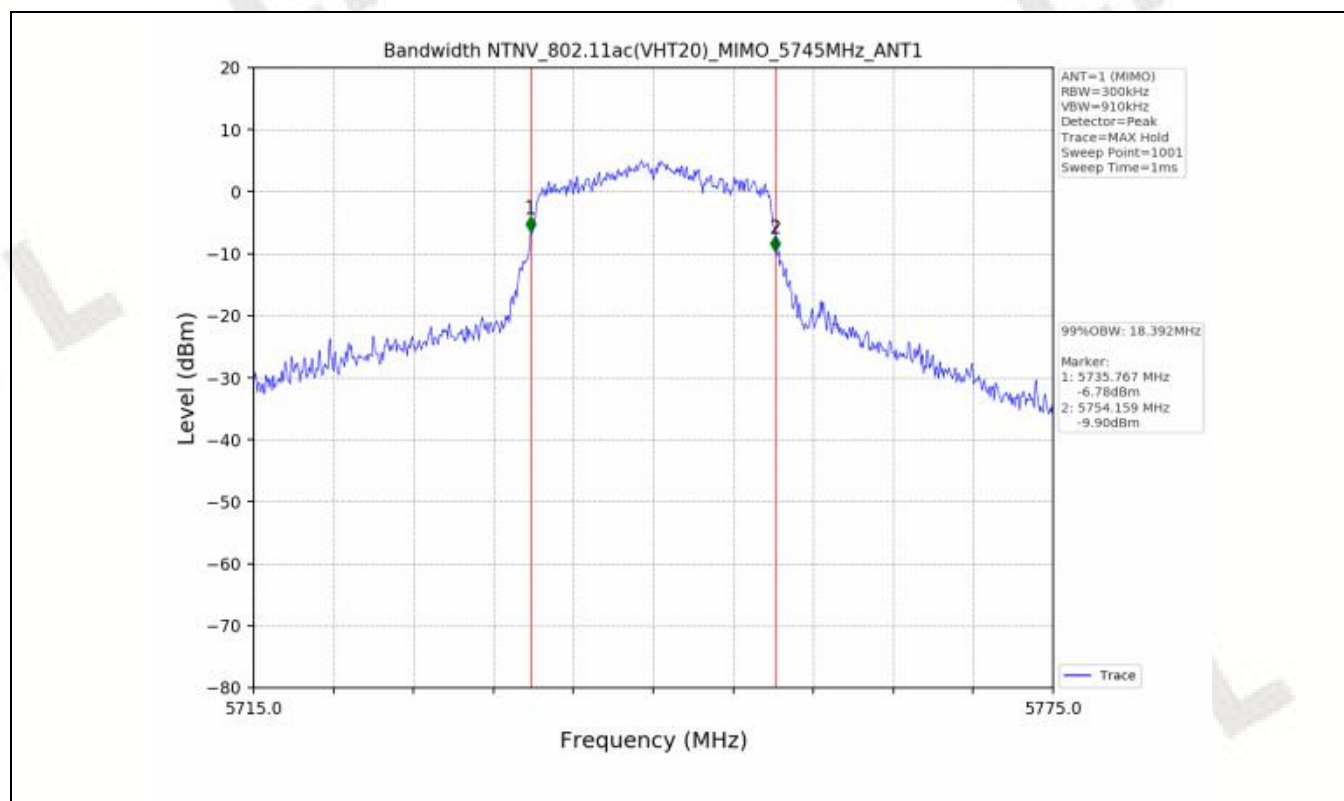


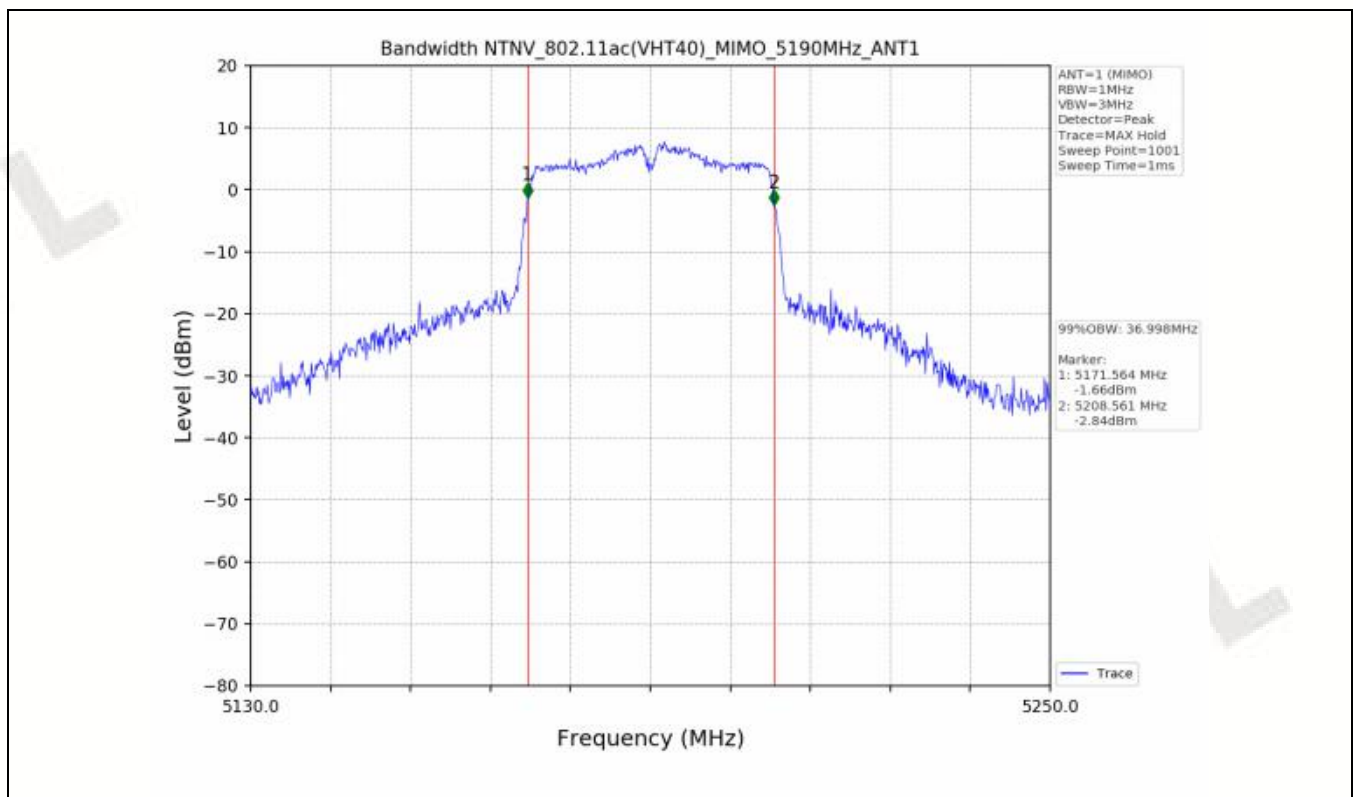
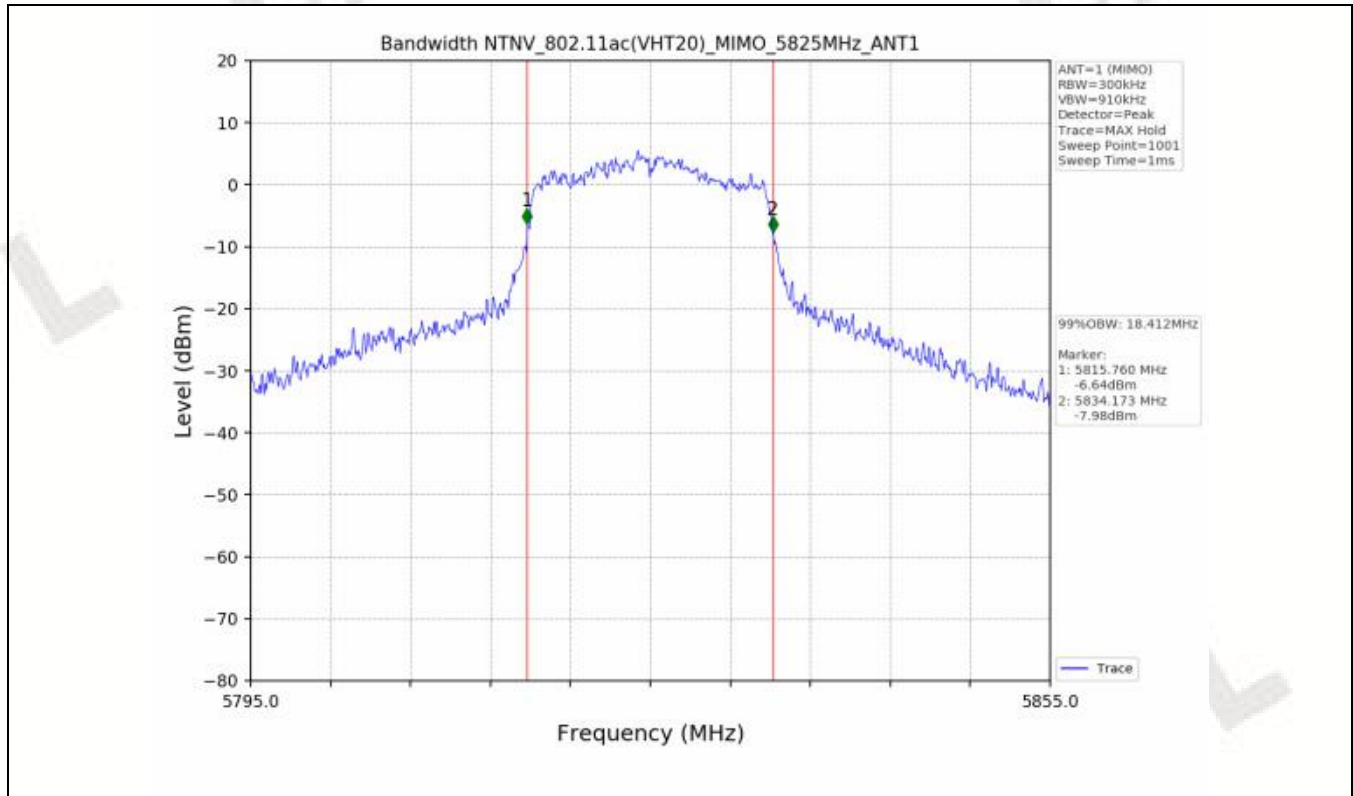


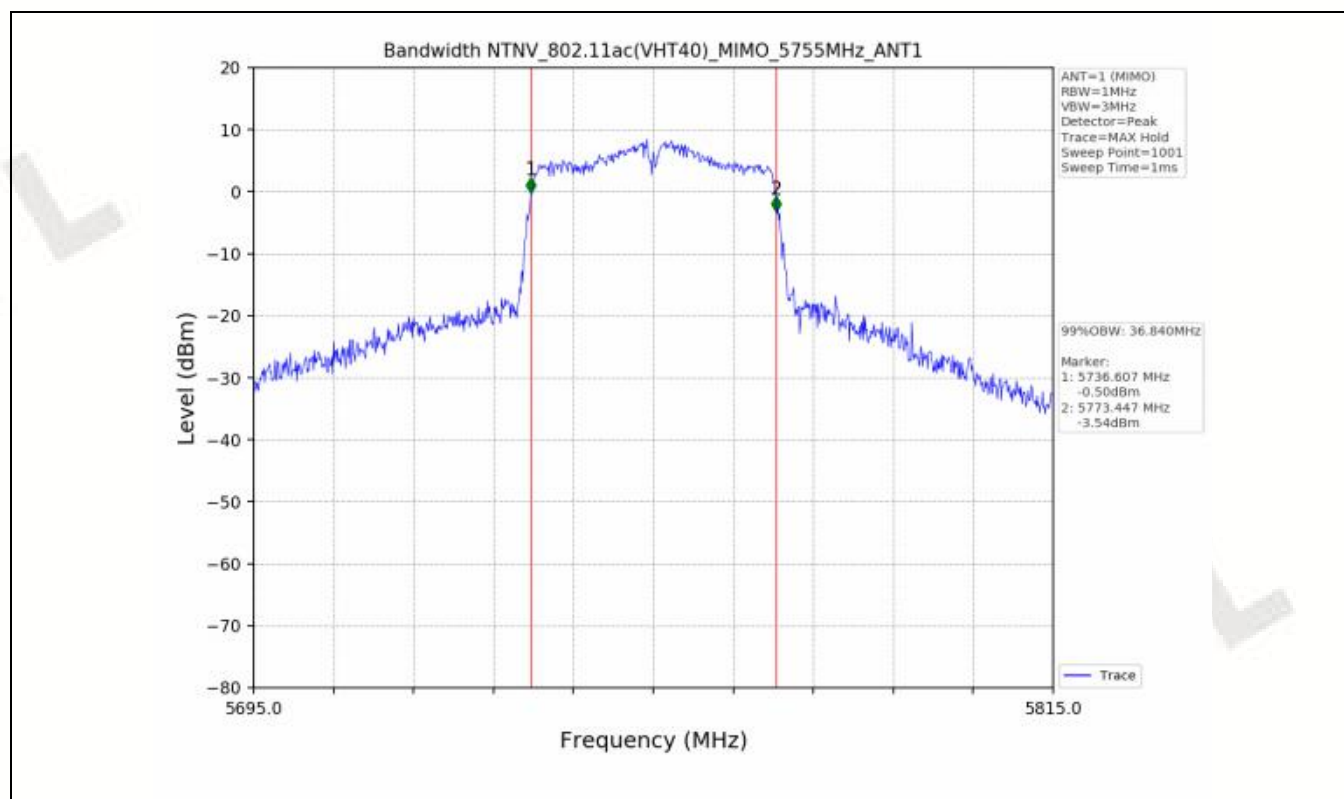
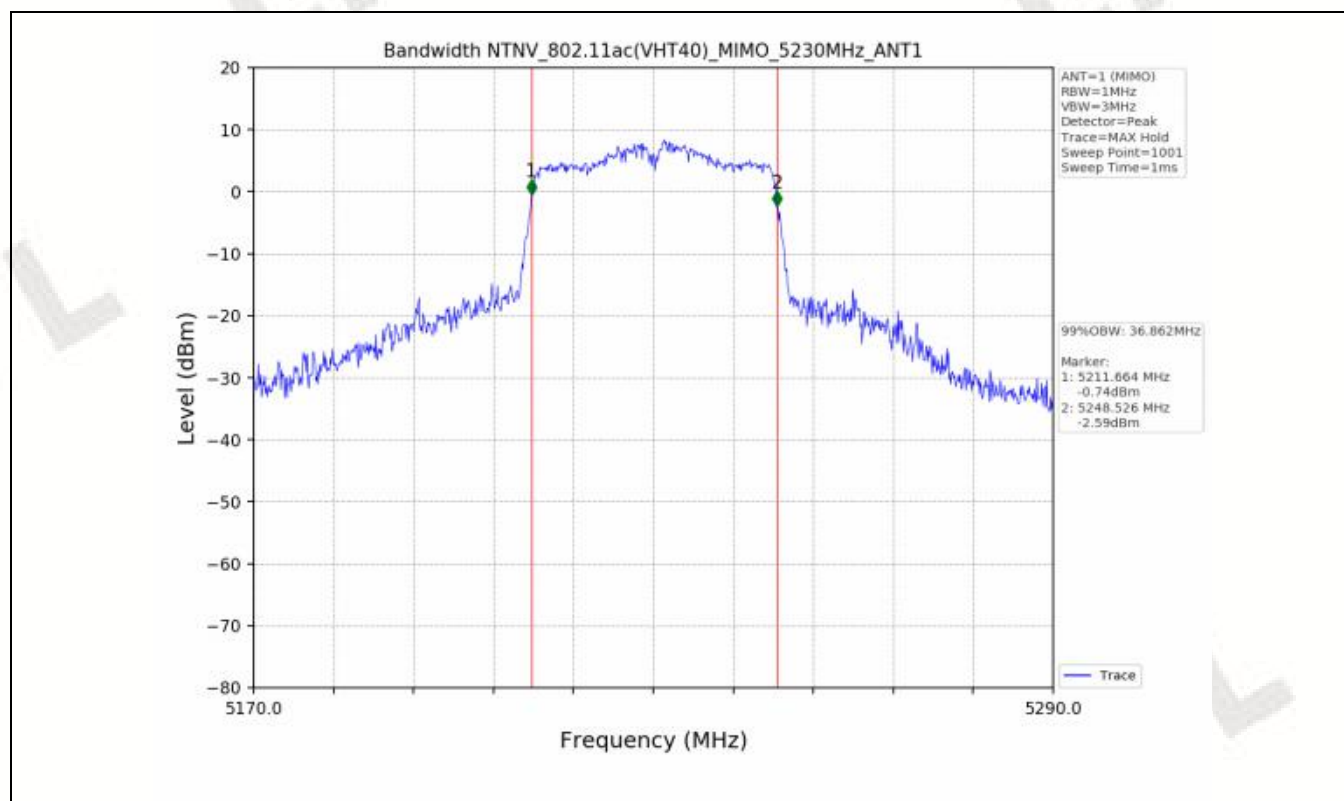


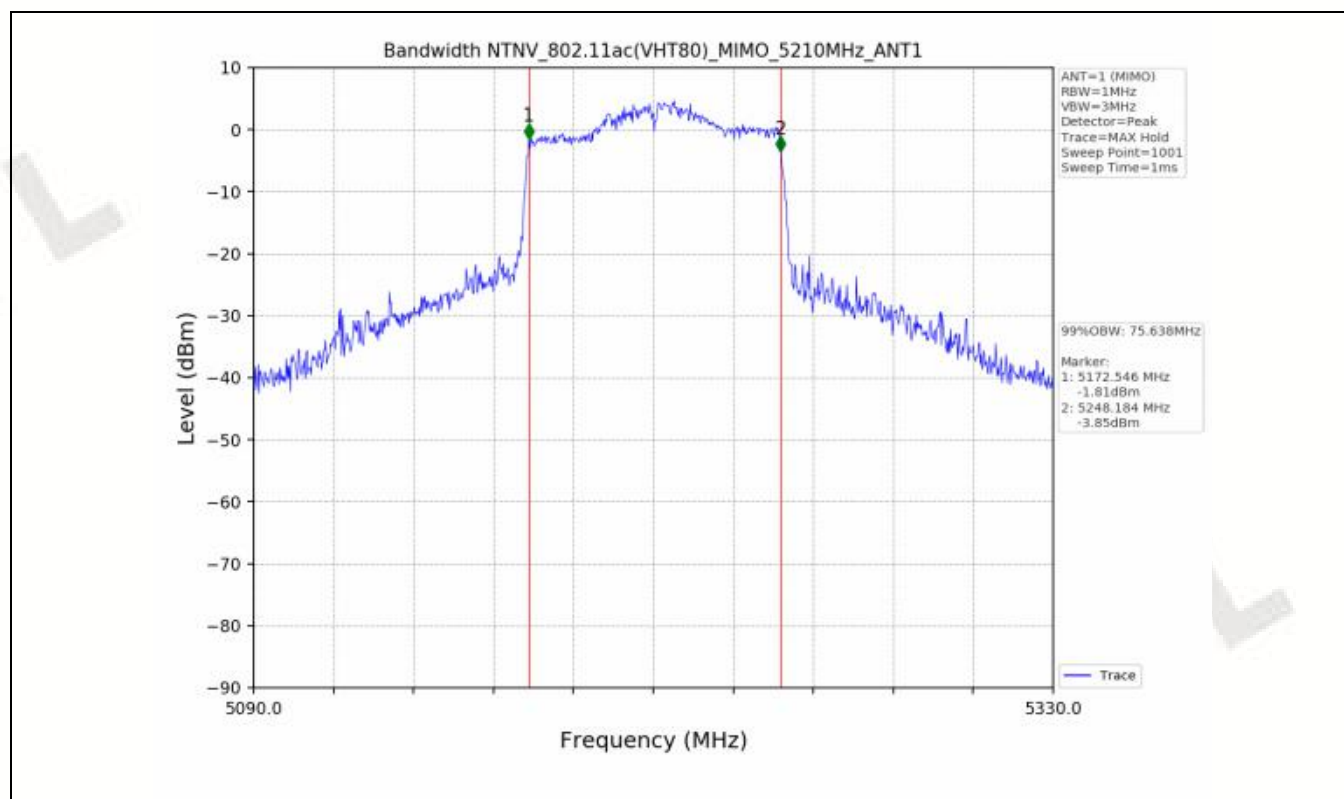
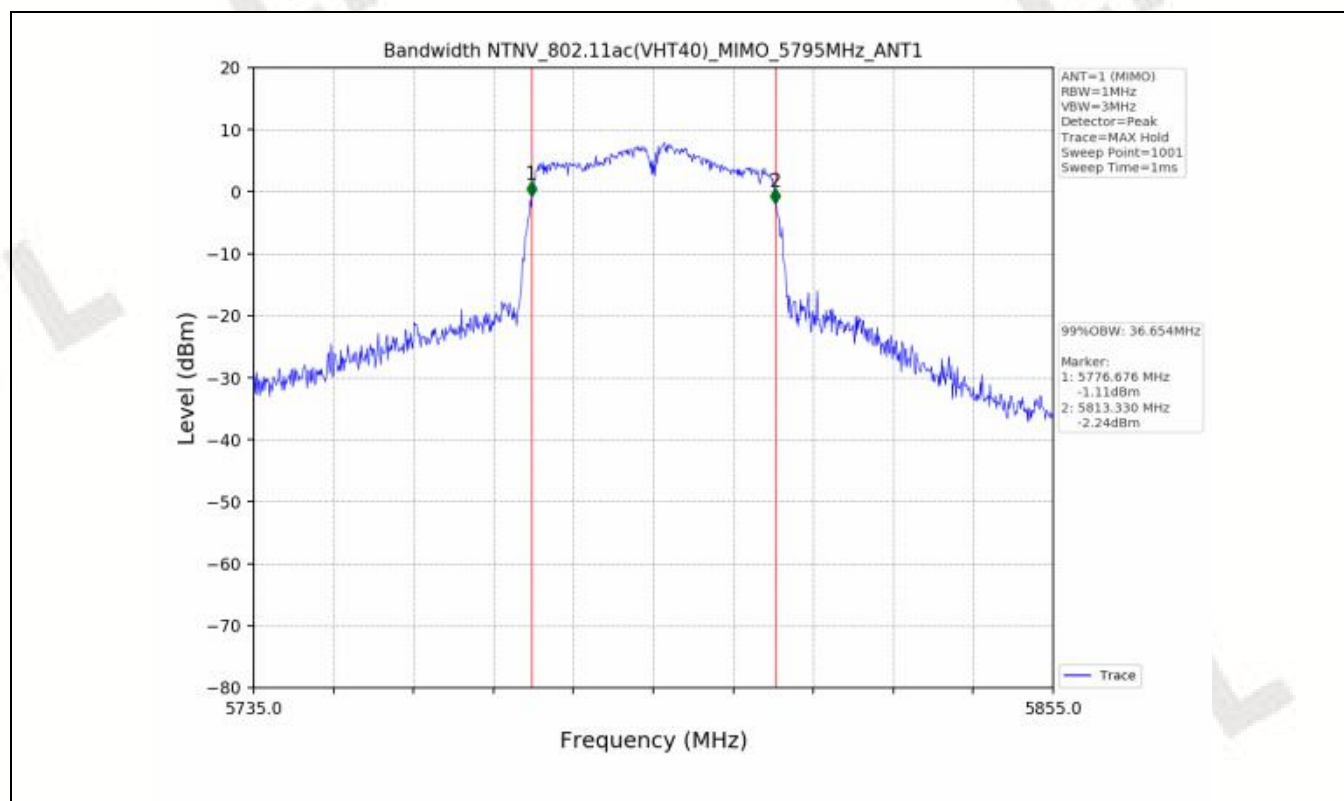


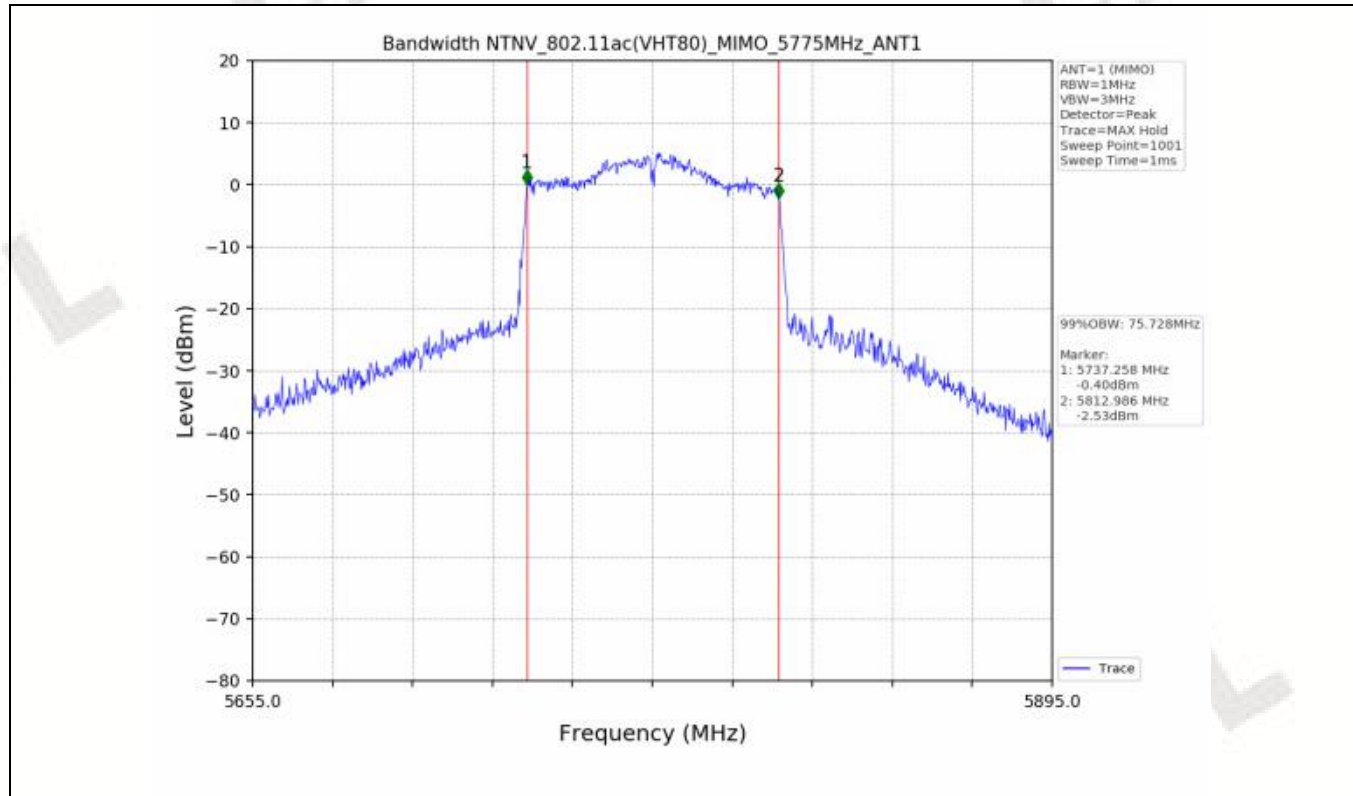












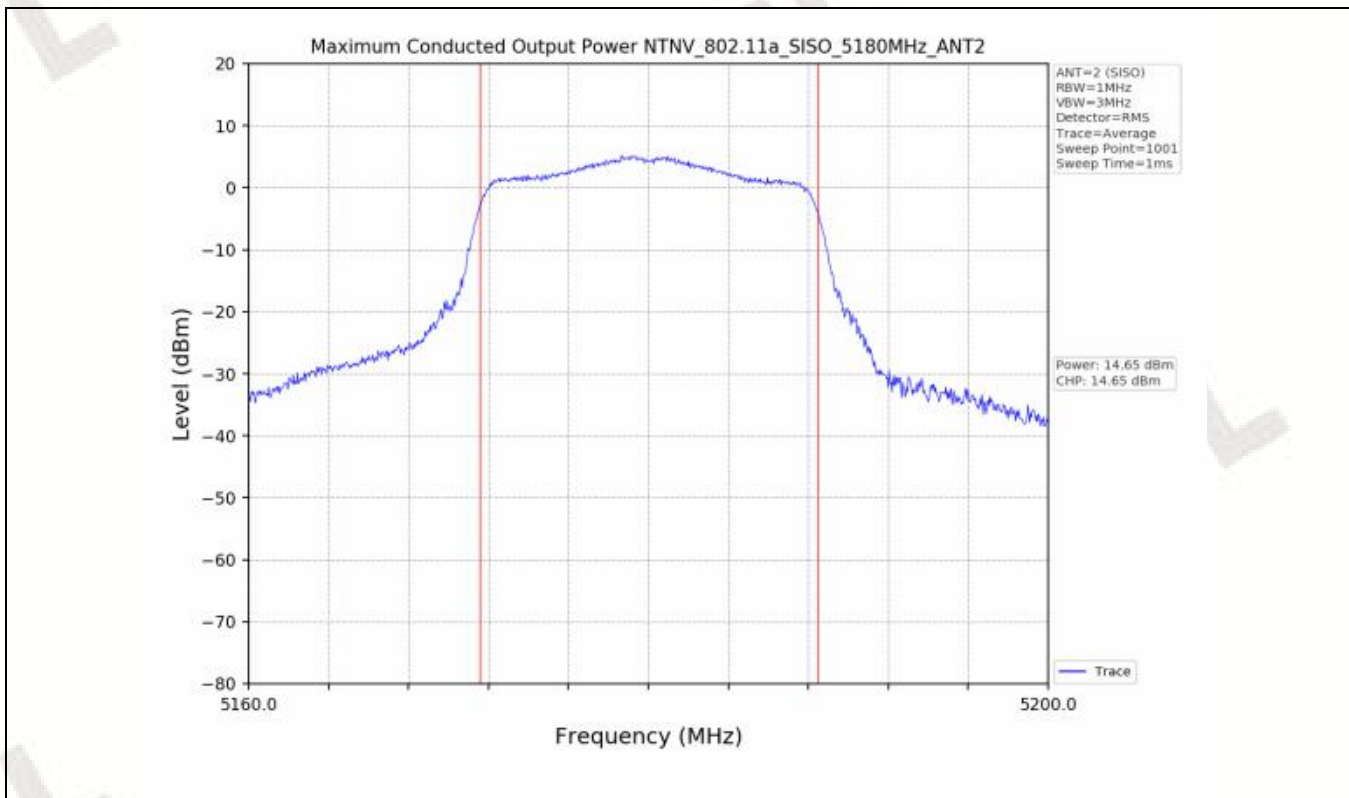
2. Maximum Conducted Output Power

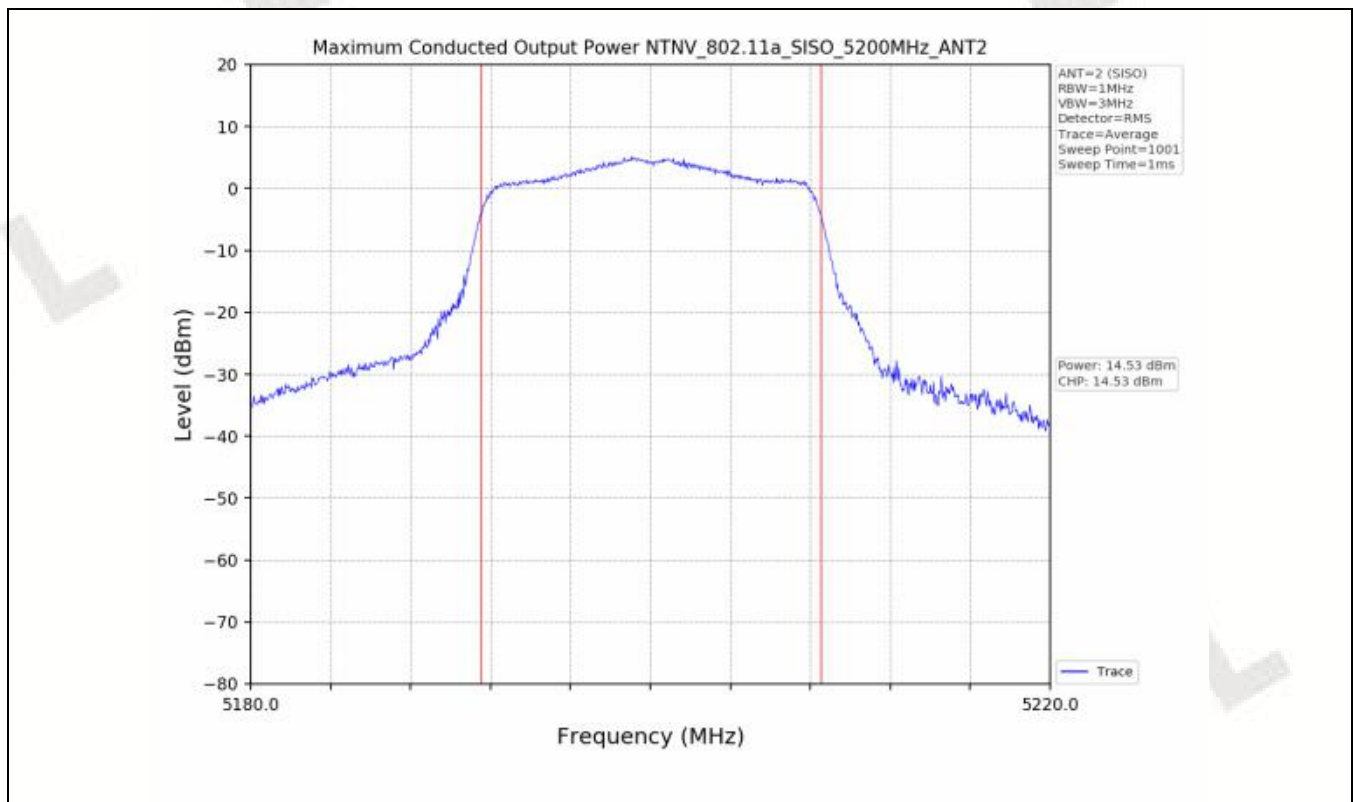
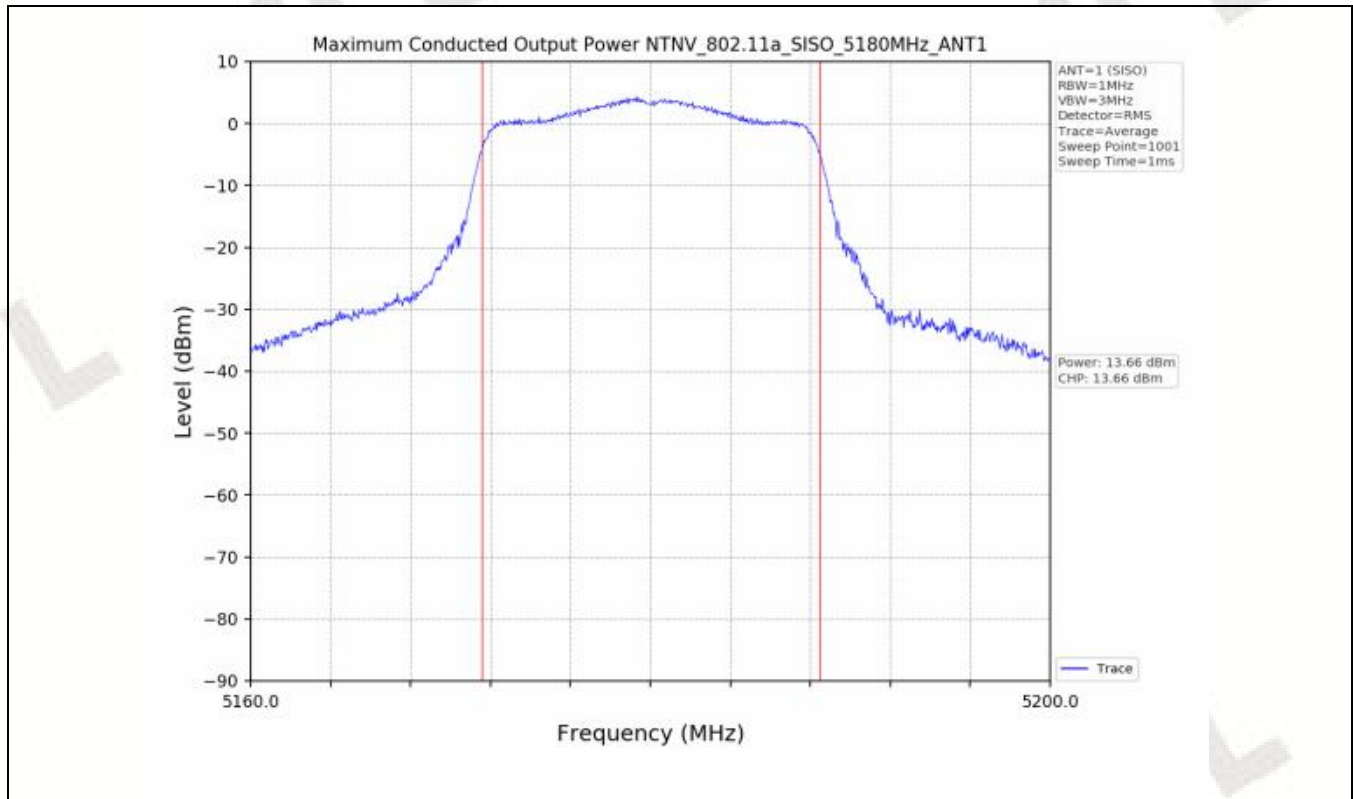
2.1 Test Result

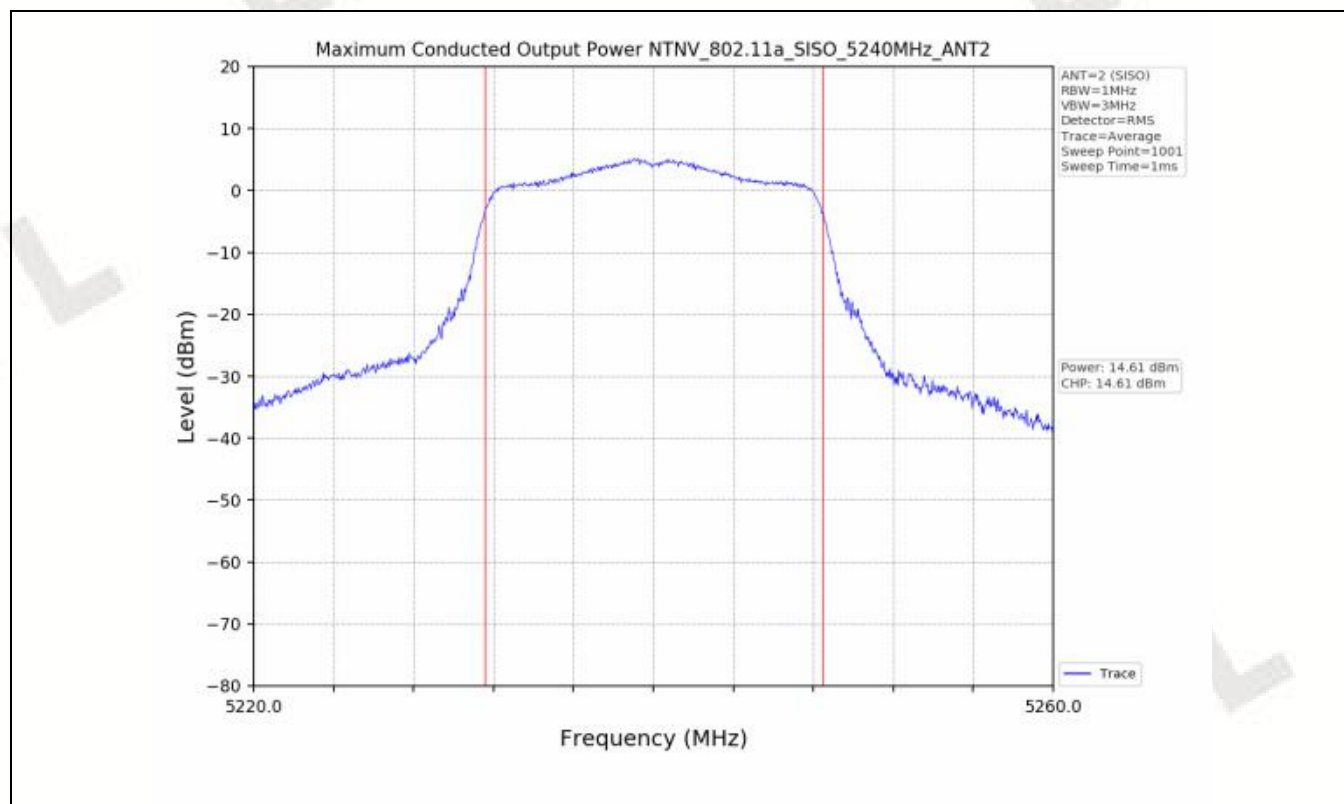
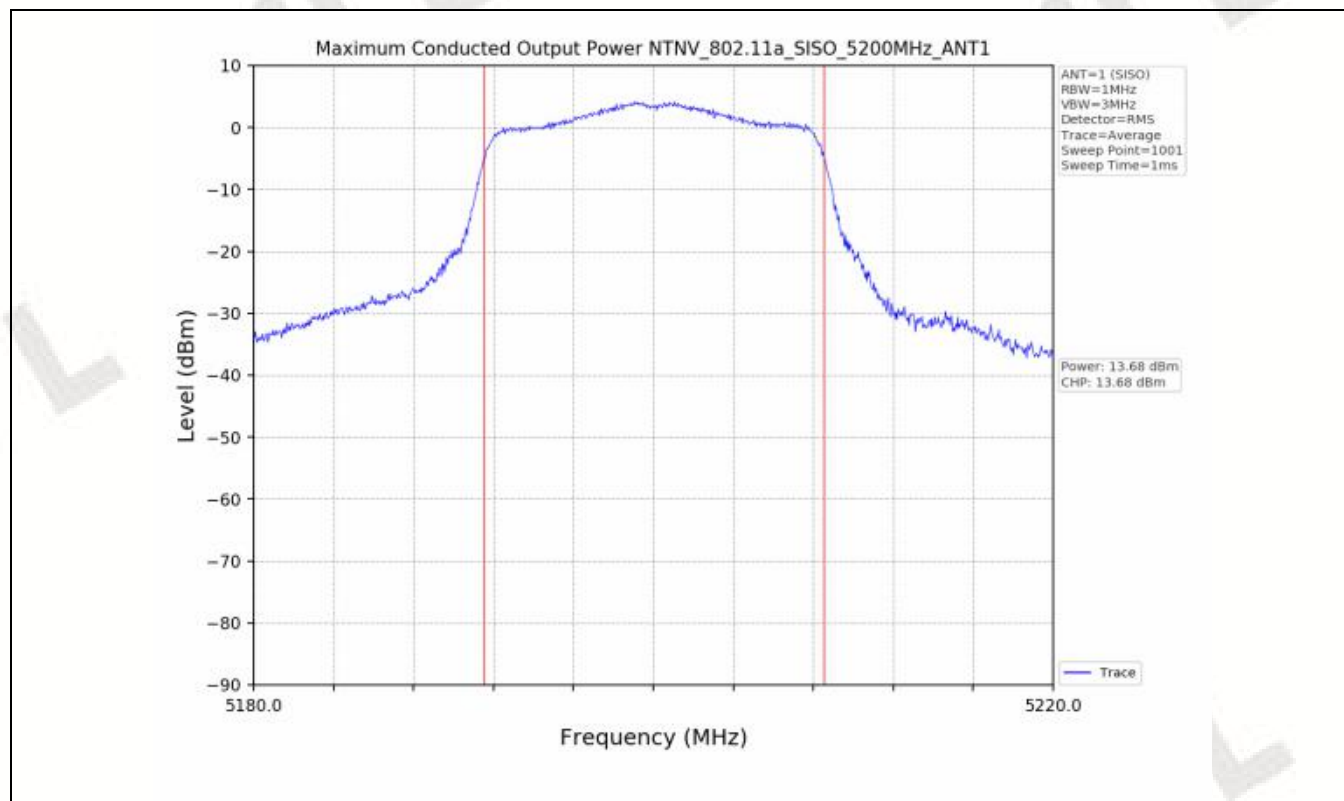
Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)			Limit (dBm)	Verdict
			Ant 2	Ant 1	Total		
802.11a	5180	SISO	14.65	13.66	/	≤23.98	PASS
	5200	SISO	14.53	13.68	/	≤23.98	PASS
	5240	SISO	14.61	13.95	/	≤23.98	PASS
	5745	SISO	14.73	13.17	/	≤30.00	PASS
	5785	SISO	14.57	13.46	/	≤30.00	PASS
	5825	SISO	15.07	13.10	/	≤30.00	PASS
802.11n(HT20)	5180	MIMO	15.04	13.52	17.36	≤23.98	PASS
	5200	MIMO	14.41	13.64	17.05	≤23.98	PASS
	5240	MIMO	14.14	14.19	17.18	≤23.98	PASS
	5745	MIMO	14.49	12.87	16.77	≤30.00	PASS
	5785	MIMO	14.61	13.09	16.93	≤30.00	PASS
	5825	MIMO	14.79	12.73	16.89	≤30.00	PASS
802.11n(HT40)	5190	MIMO	13.16	12.15	15.69	≤23.98	PASS
	5230	MIMO	12.81	12.55	15.69	≤23.98	PASS
	5755	MIMO	14.10	12.62	16.43	≤30.00	PASS
	5795	MIMO	14.28	12.47	16.48	≤30.00	PASS
802.11ac(VHT20)	5180	MIMO	14.98	13.50	17.31	≤23.98	PASS
	5200	MIMO	14.42	13.63	17.05	≤23.98	PASS
	5240	MIMO	14.13	14.00	17.08	≤23.98	PASS
	5745	MIMO	14.55	12.98	16.85	≤30.00	PASS
	5785	MIMO	14.43	13.20	16.87	≤30.00	PASS

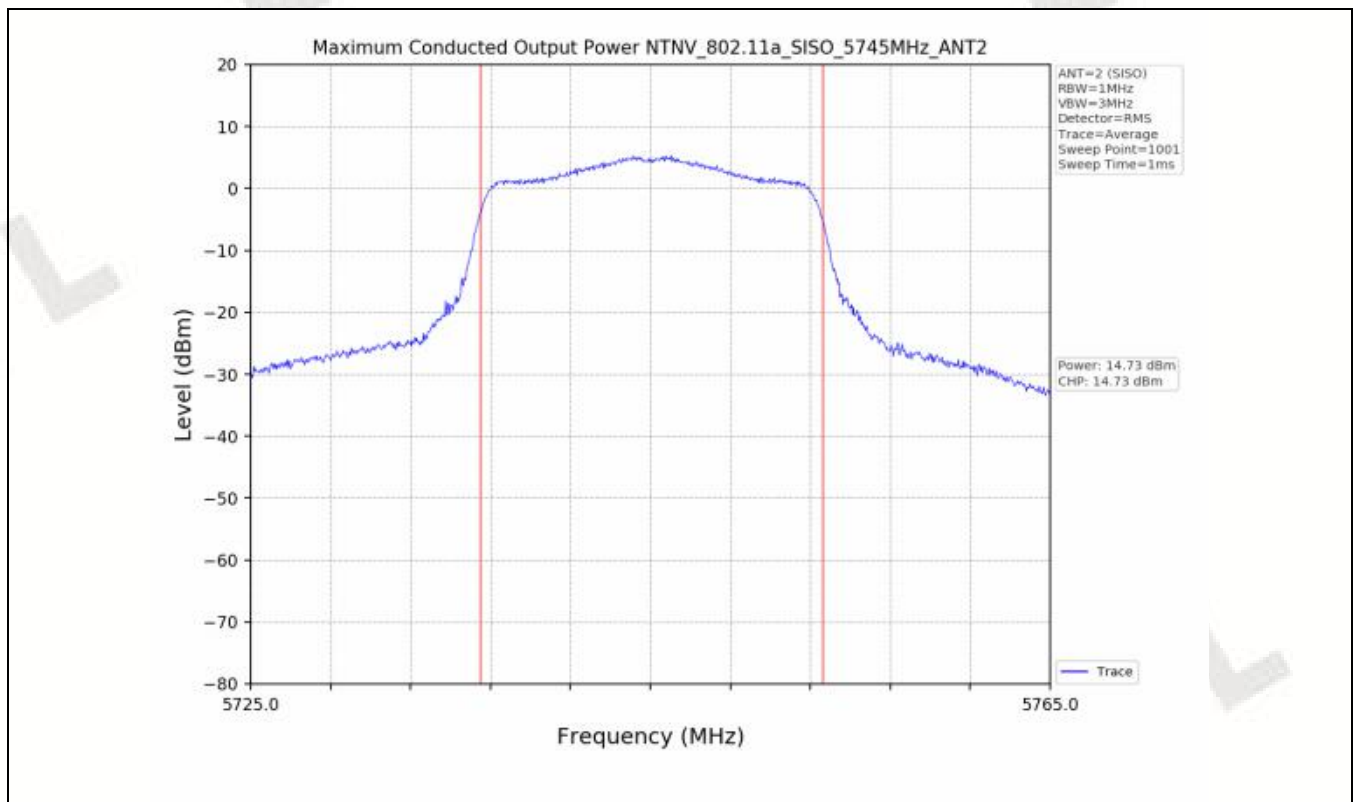
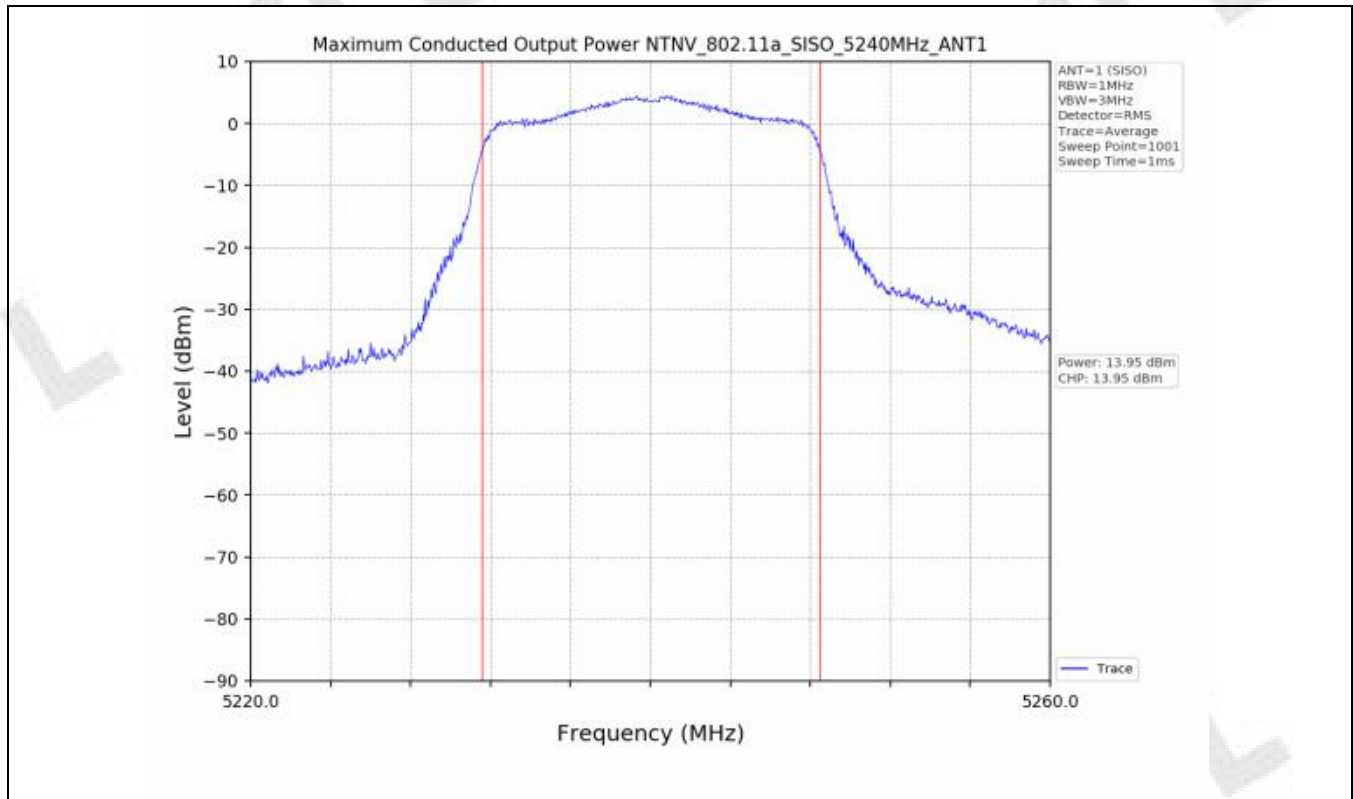
	5825	MIMO	14.75	12.82	16.90	≤30.00	PASS
802.11ac(VHT40)	5190	MIMO	13.10	12.18	15.67	≤23.98	PASS
	5230	MIMO	12.80	12.68	15.75	≤23.98	PASS
	5755	MIMO	14.04	12.42	16.32	≤30.00	PASS
	5795	MIMO	14.05	12.37	16.30	≤30.00	PASS
	5210	MIMO	12.26	11.46	14.89	≤23.98	PASS
802.11ac(VHT80)	5775	MIMO	13.14	12.07	15.65	≤30.00	PASS

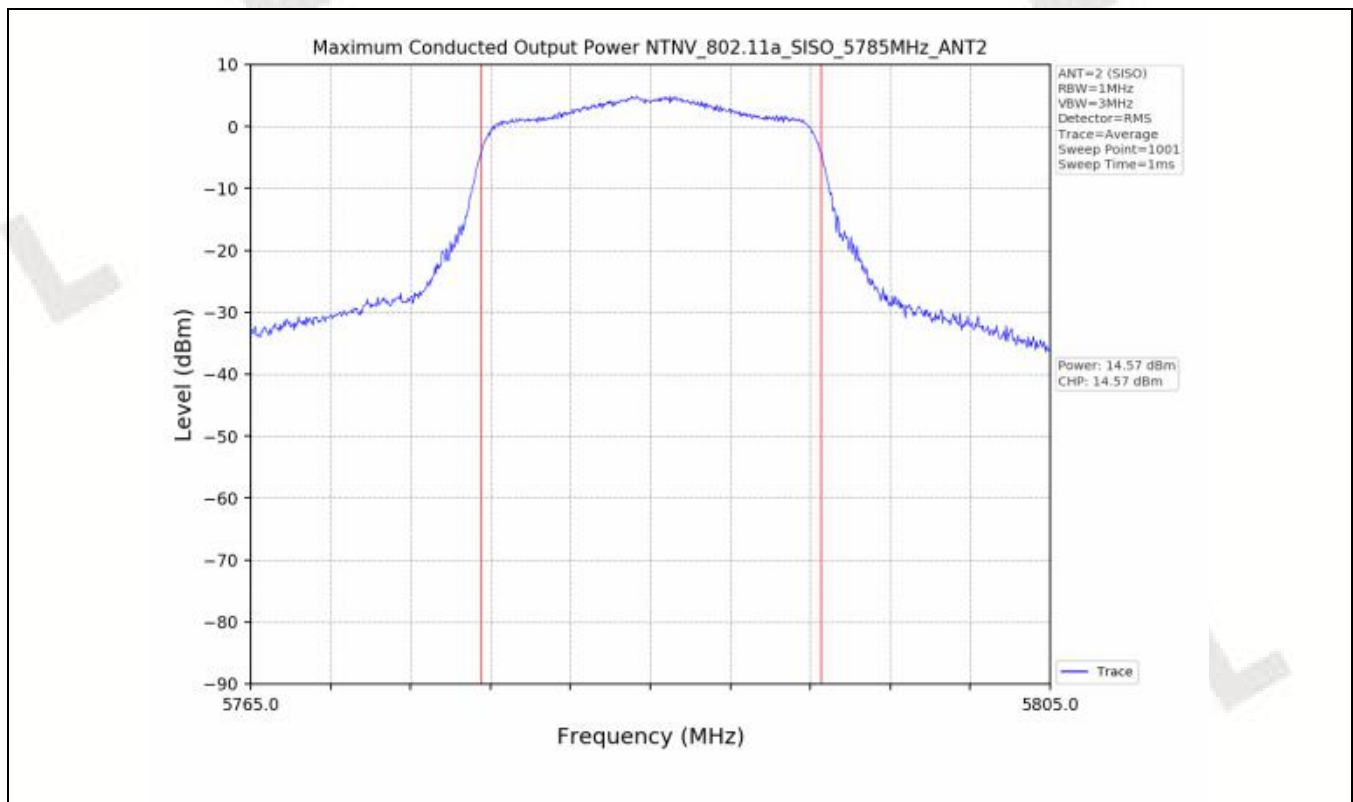
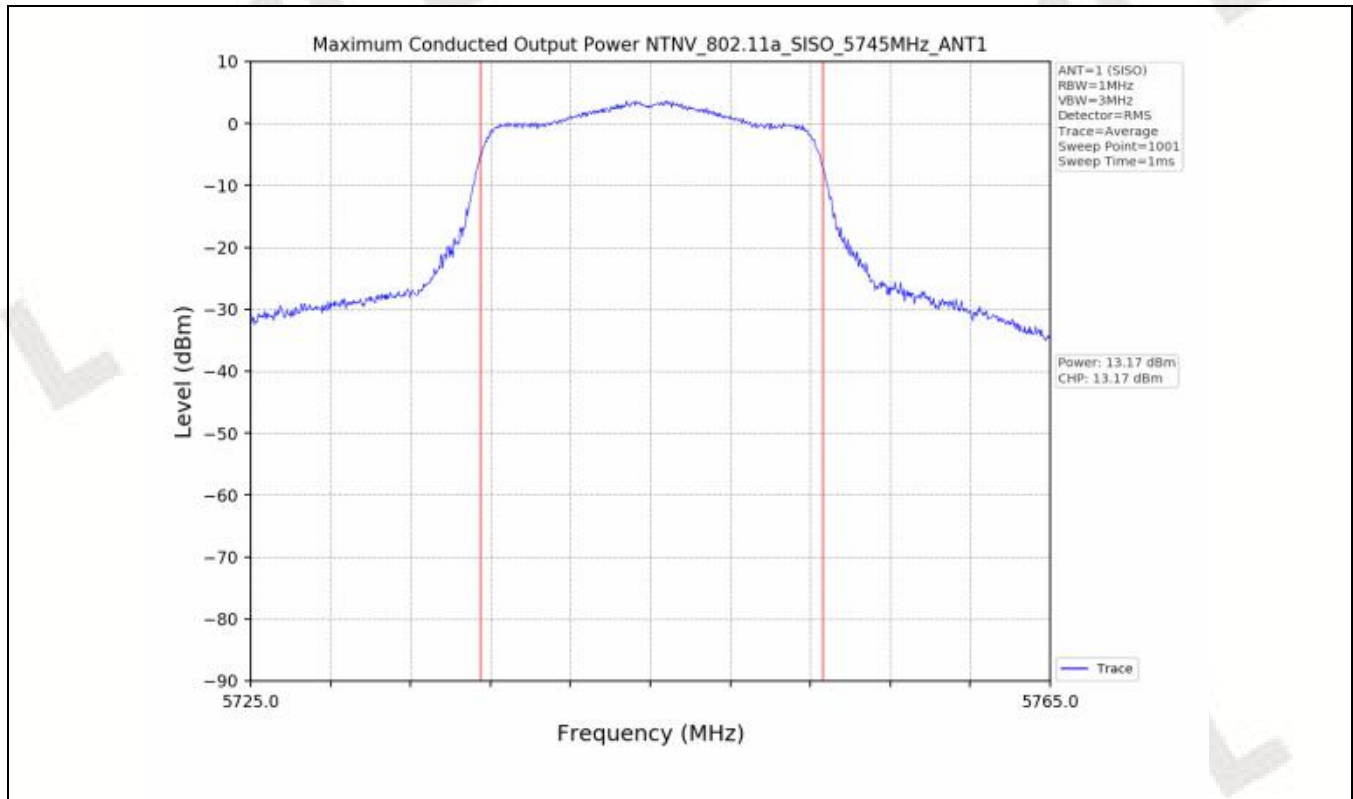
2.2 Test Graph

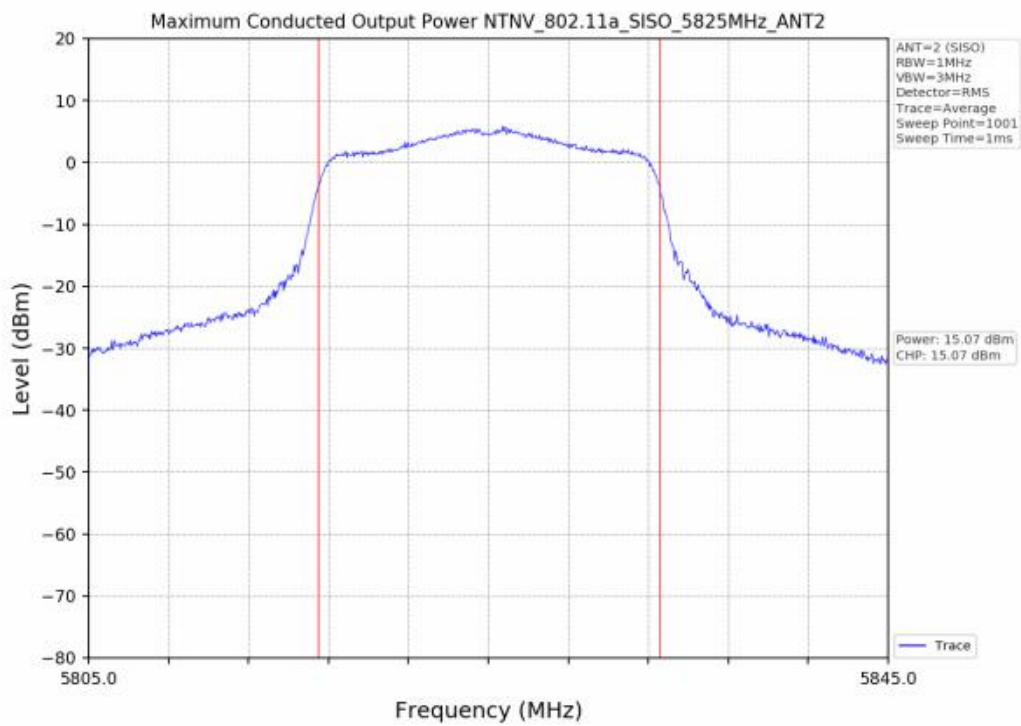
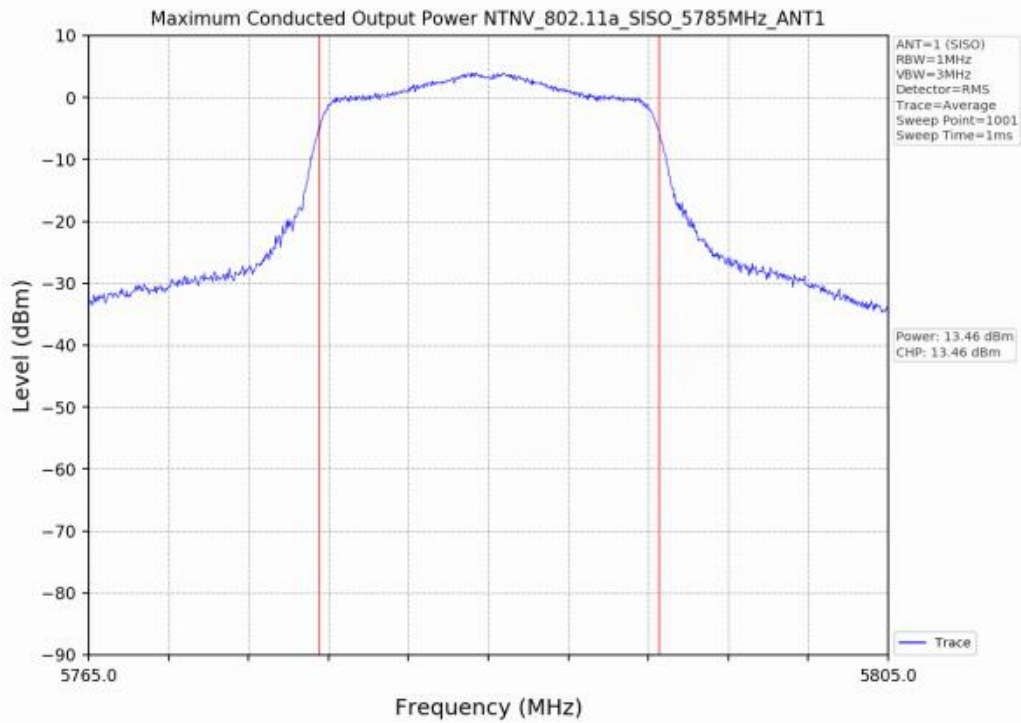


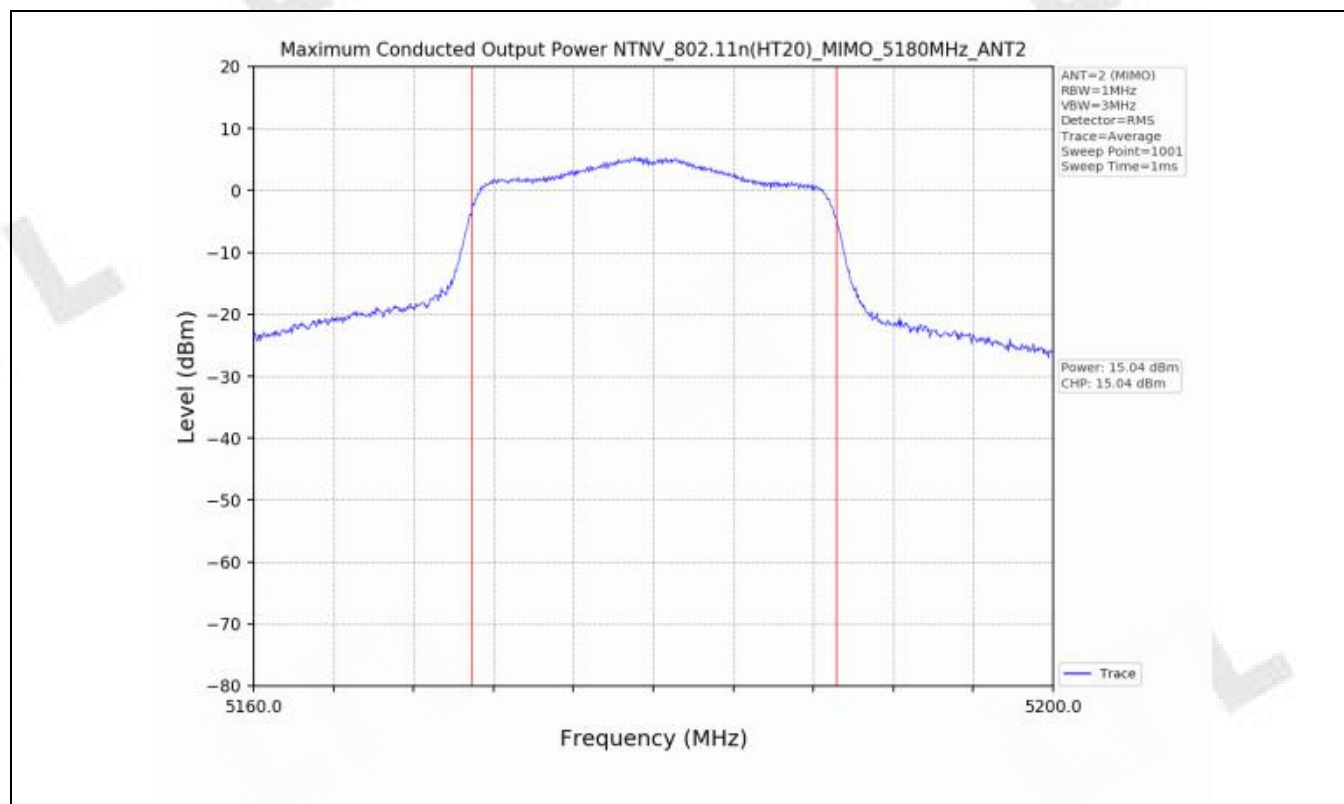
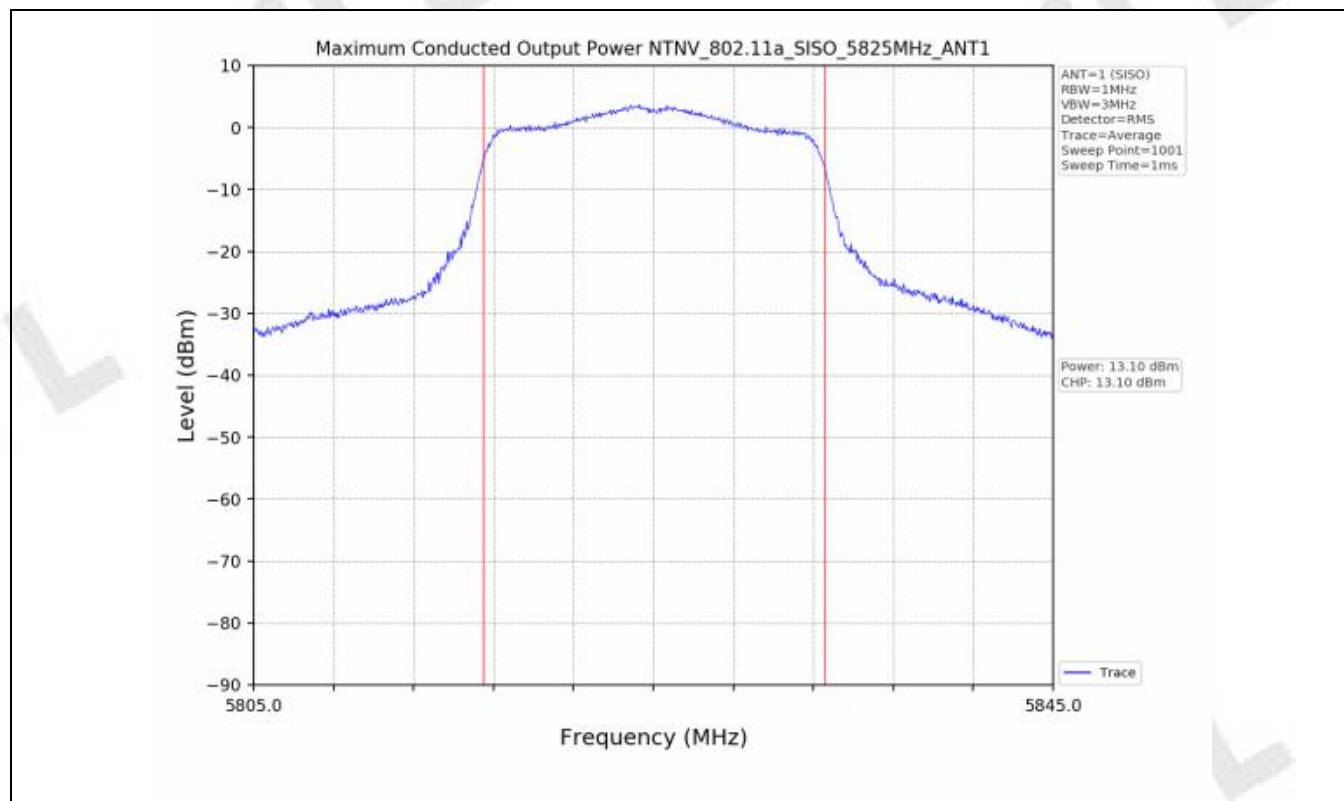


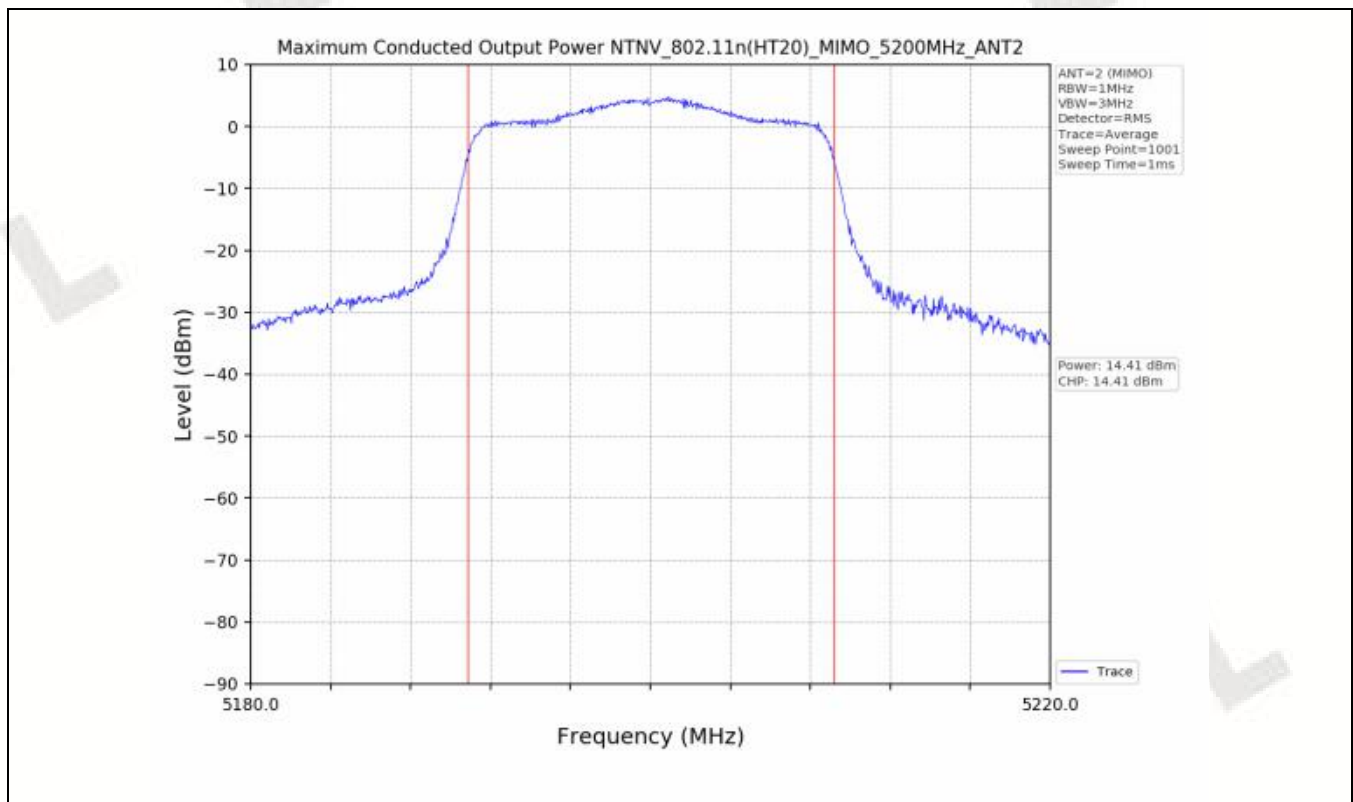
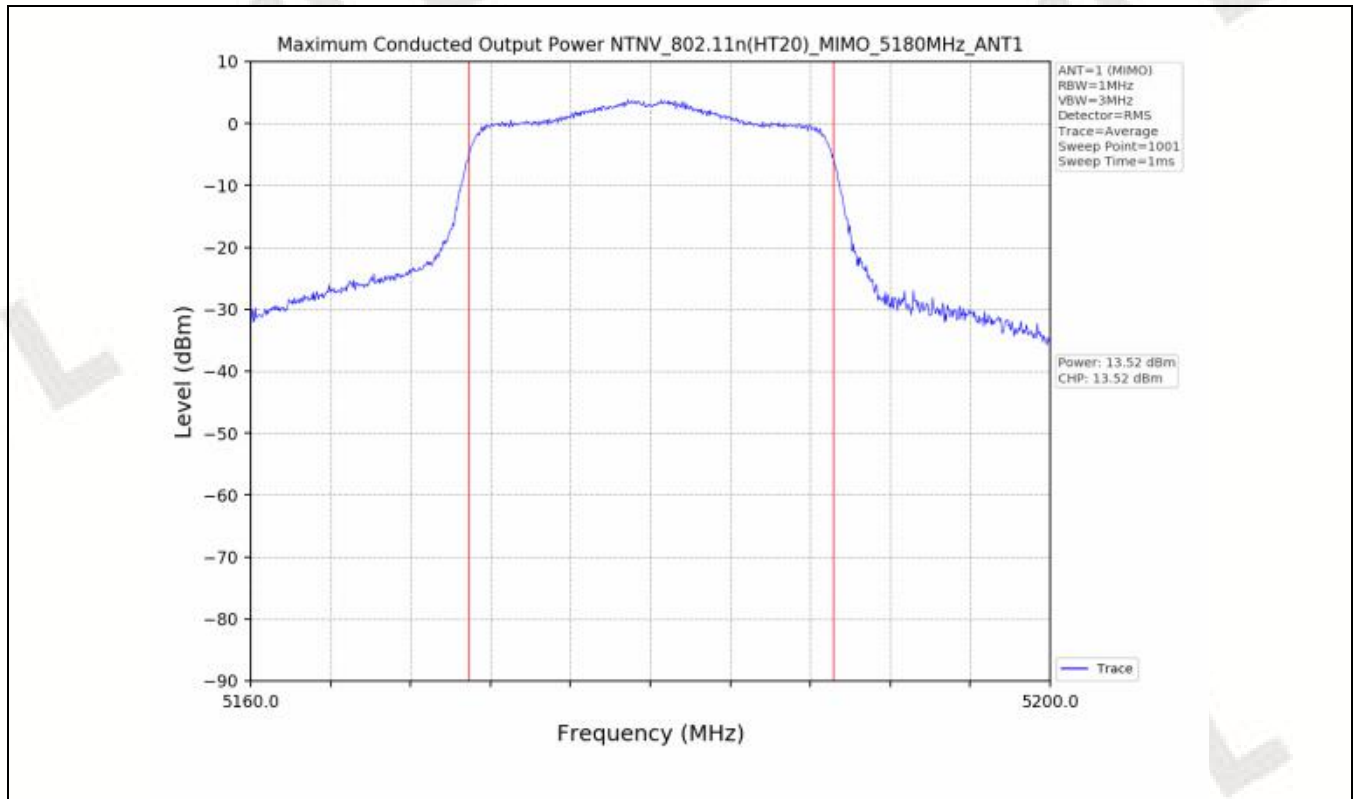


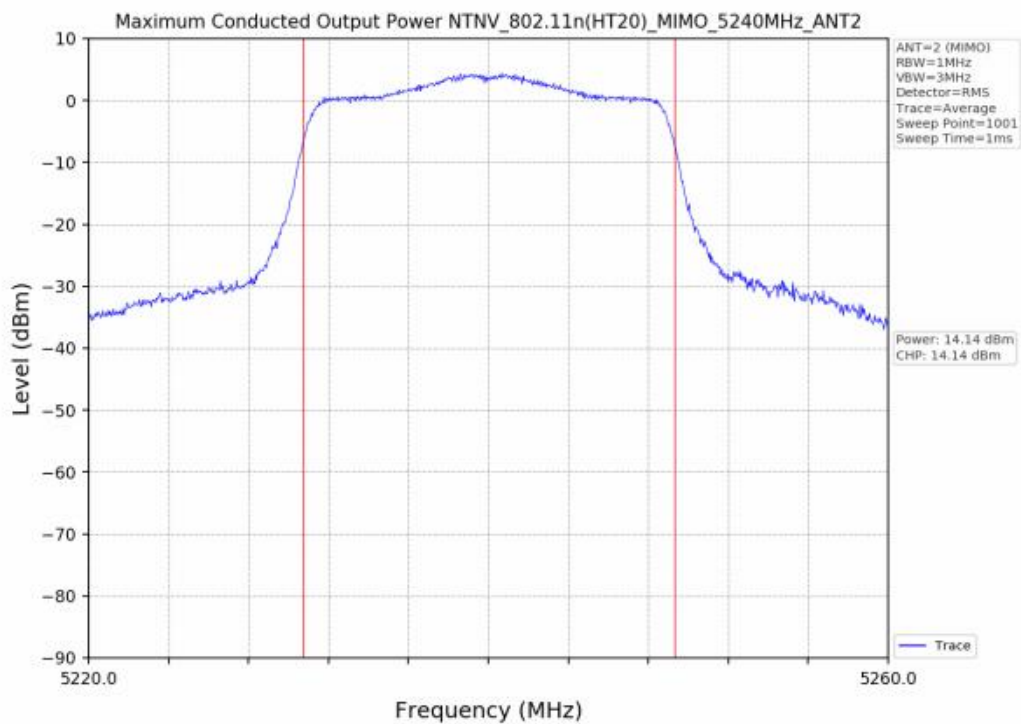
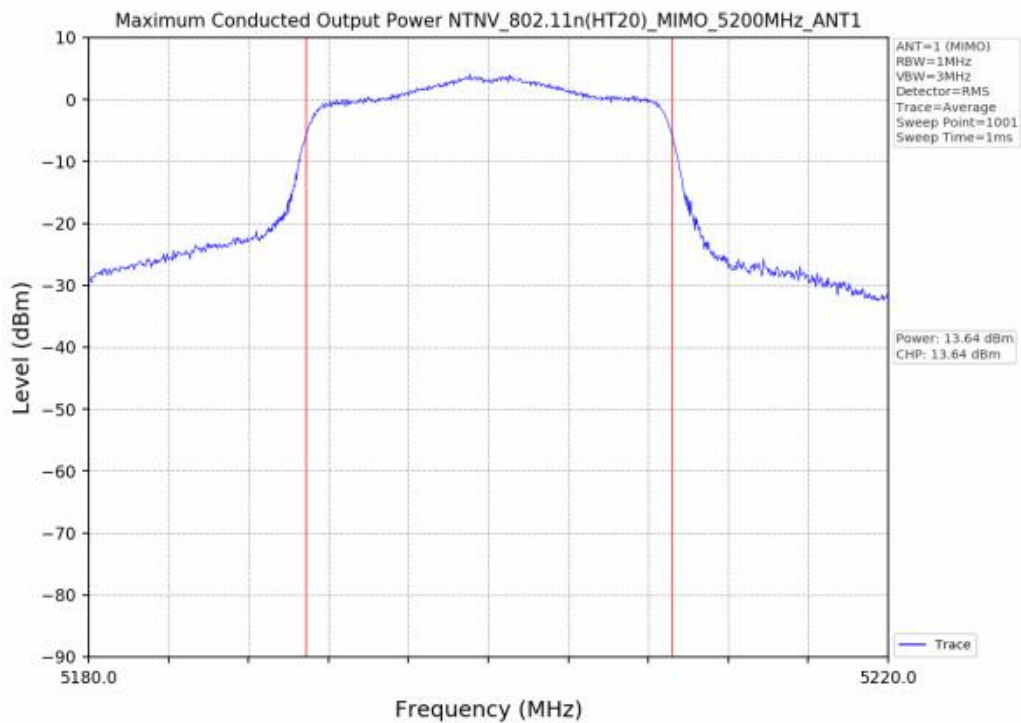


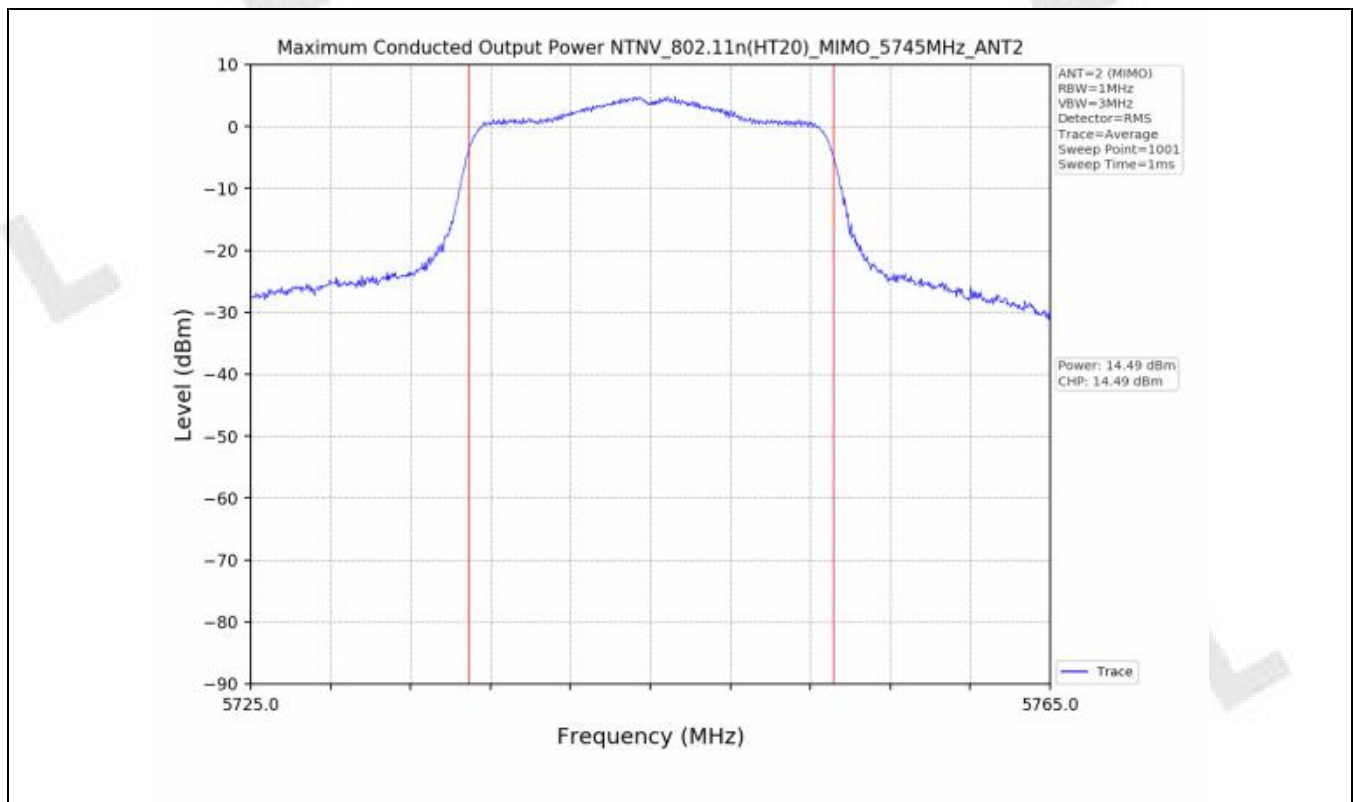
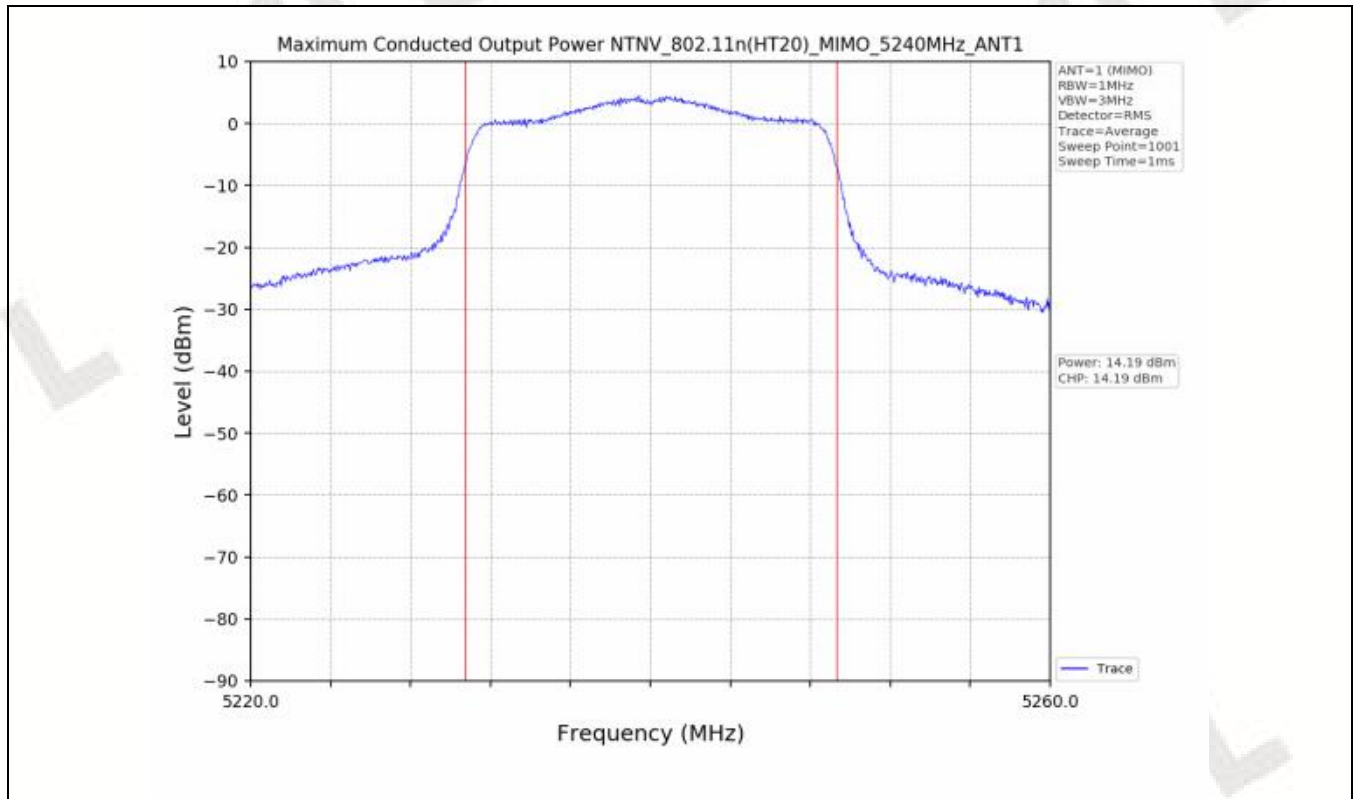


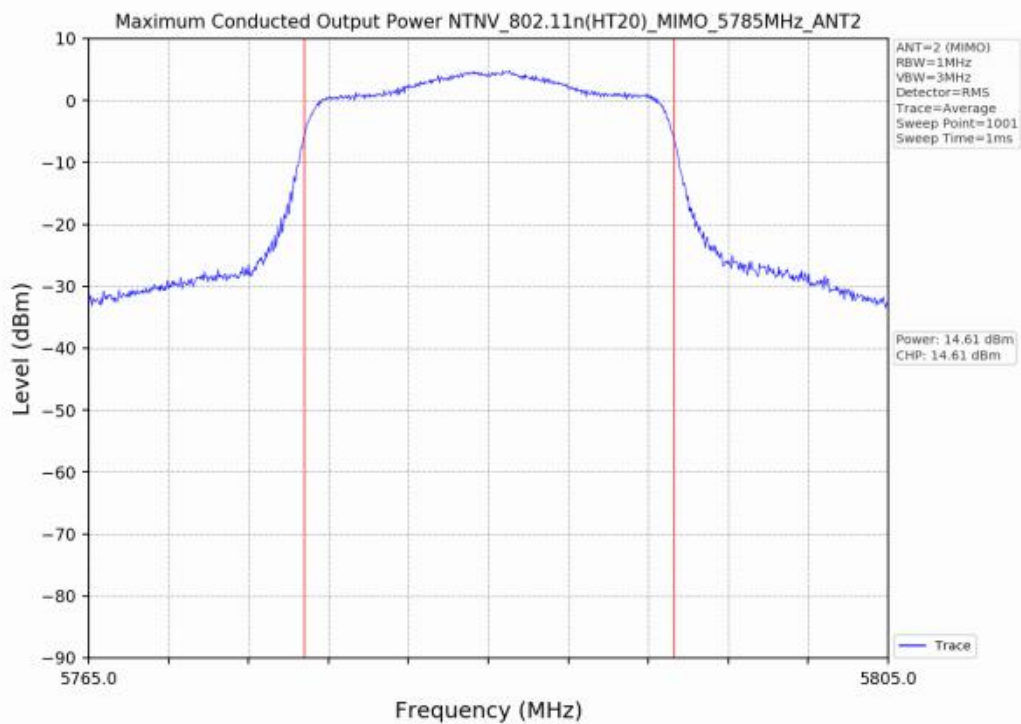
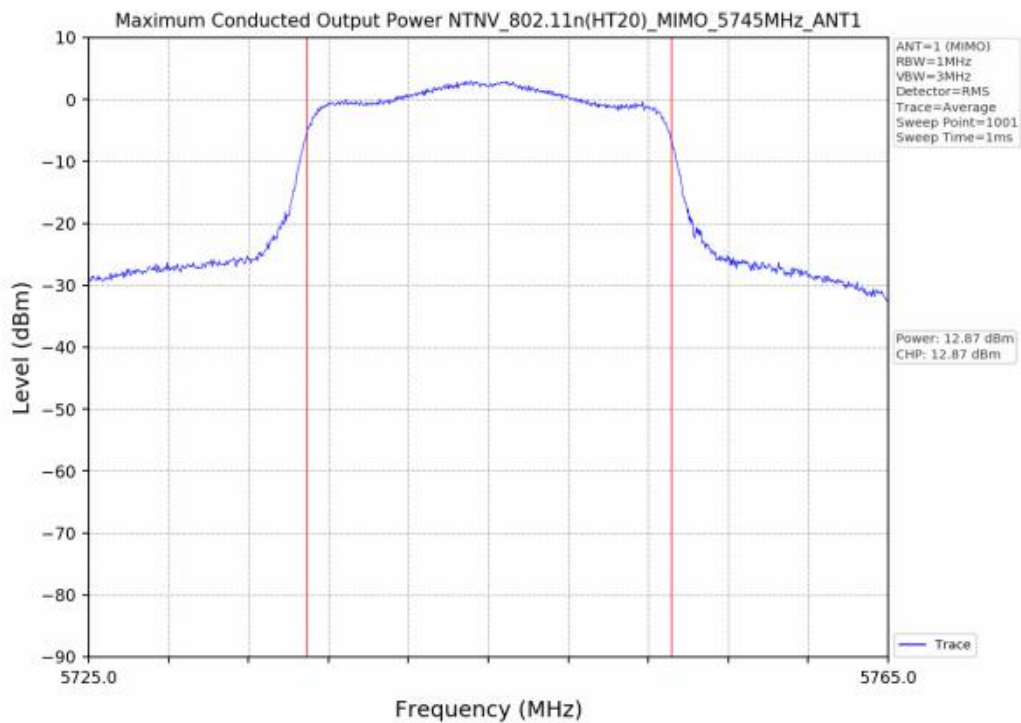


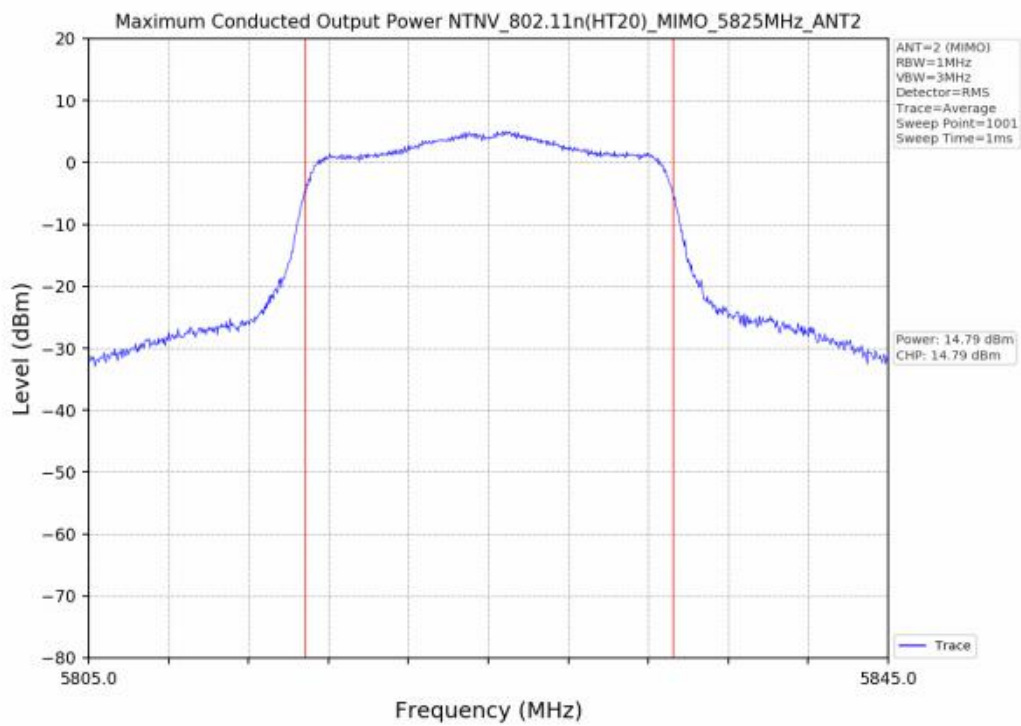
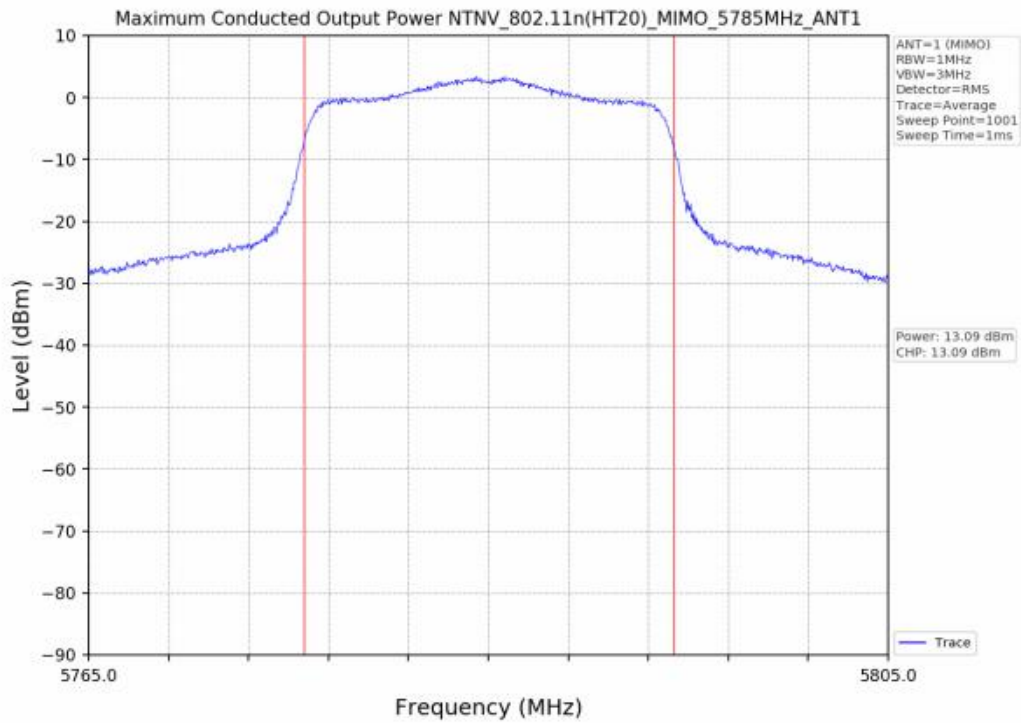


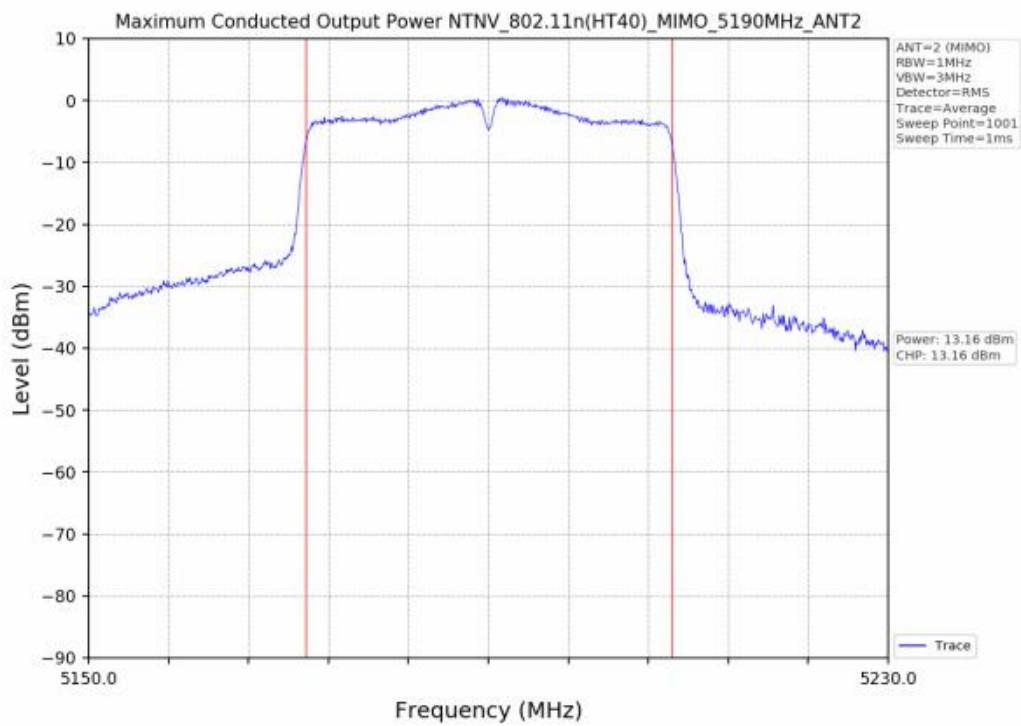
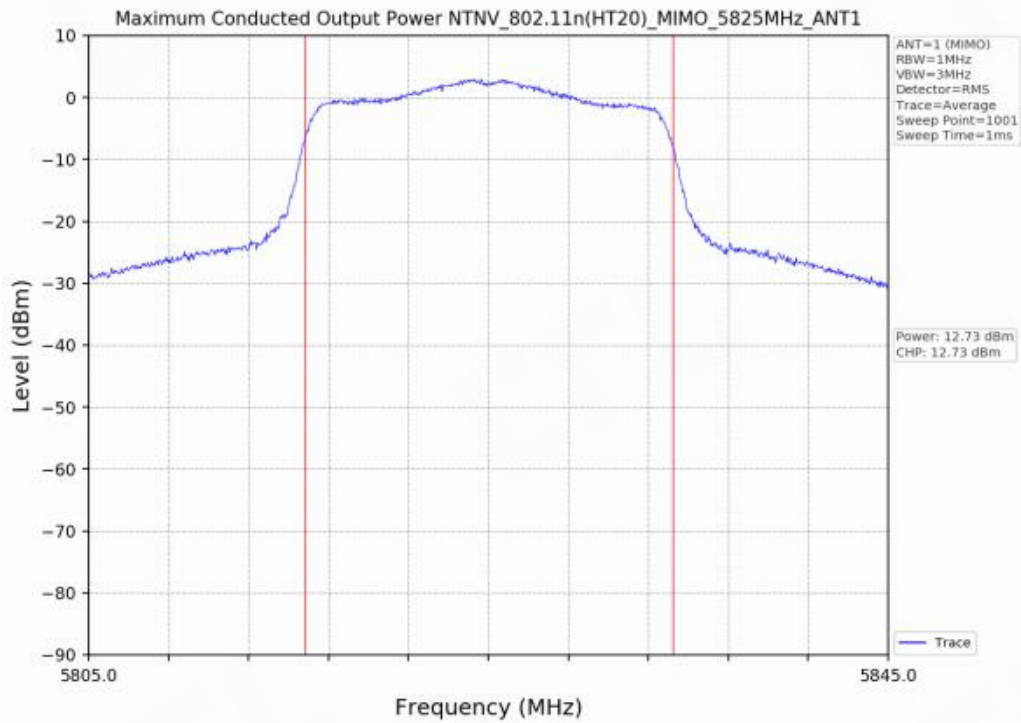


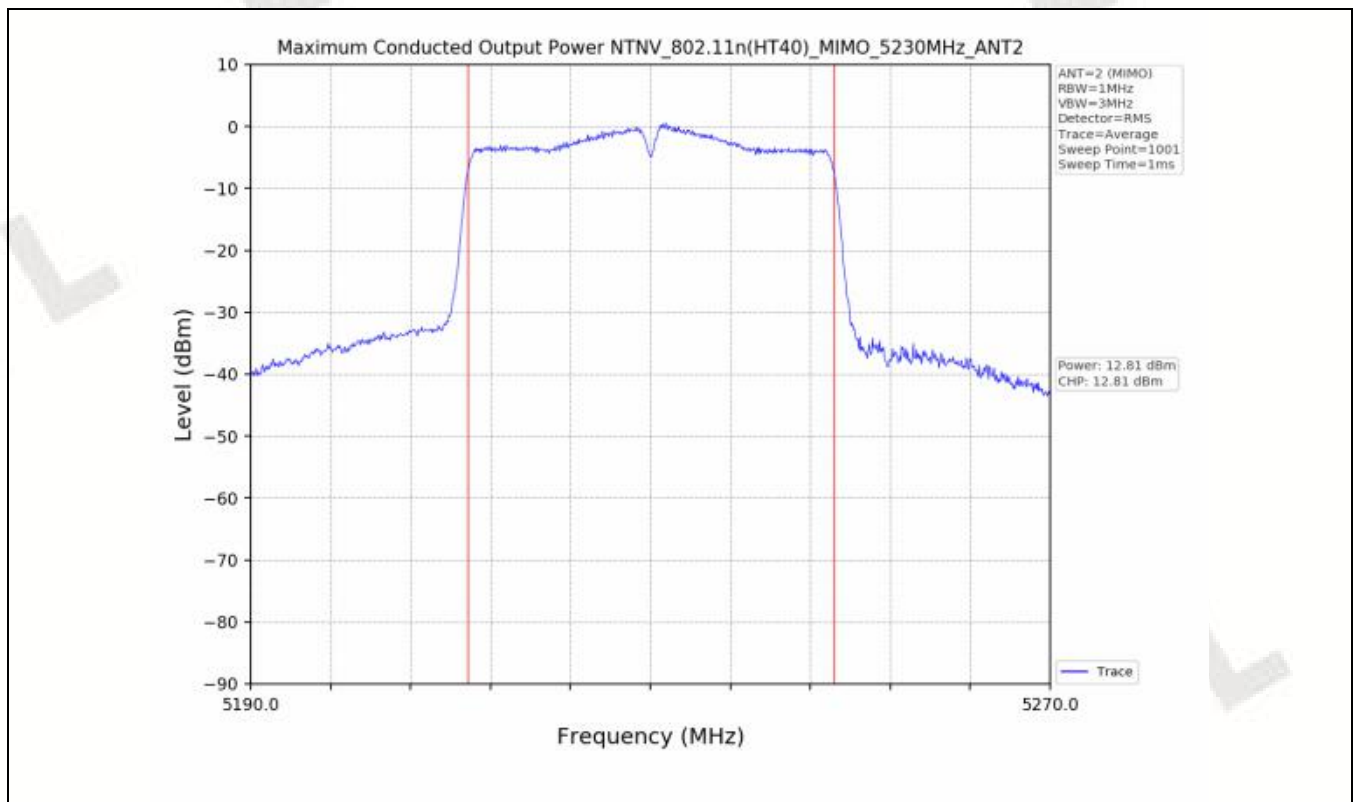
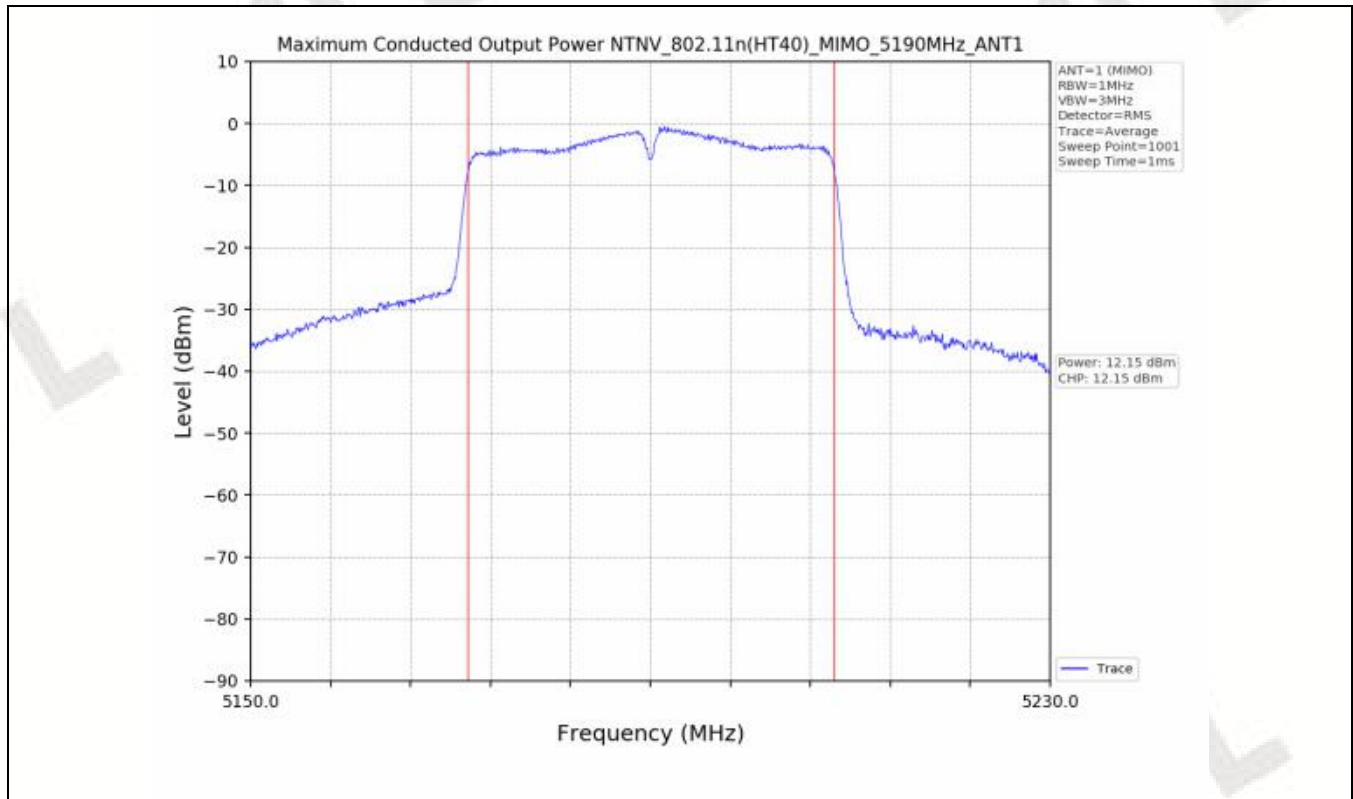


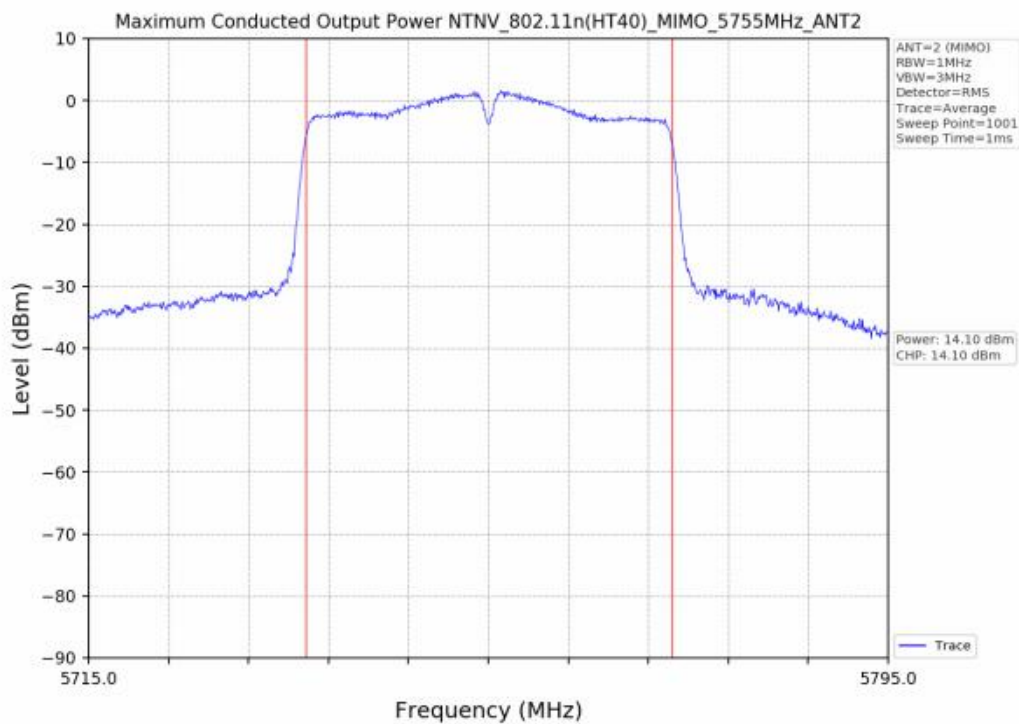
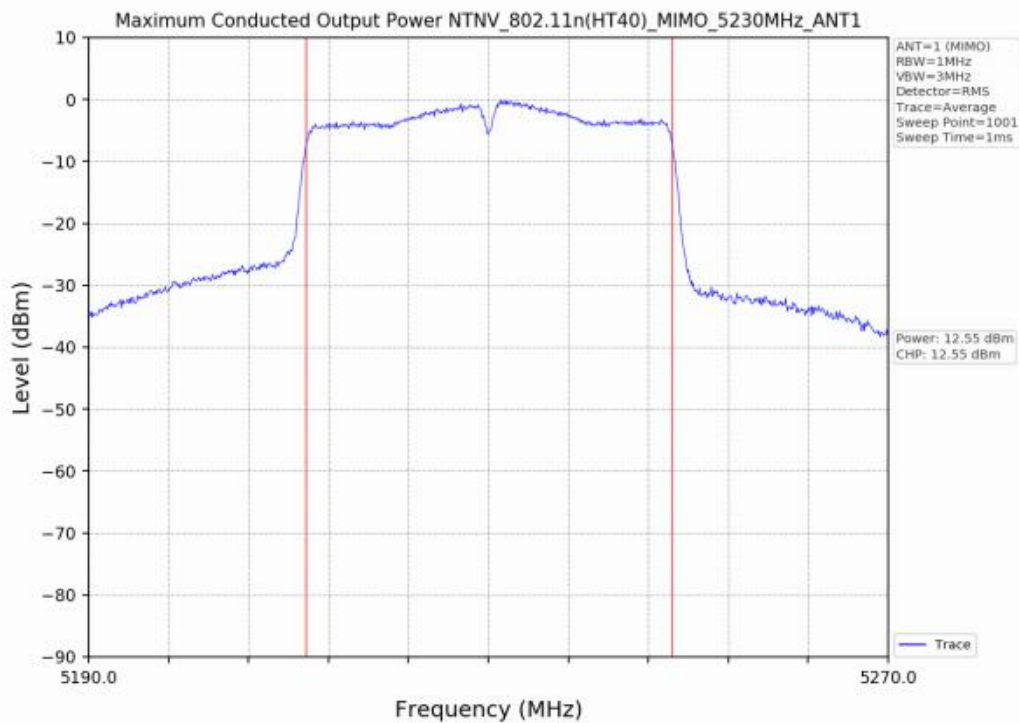


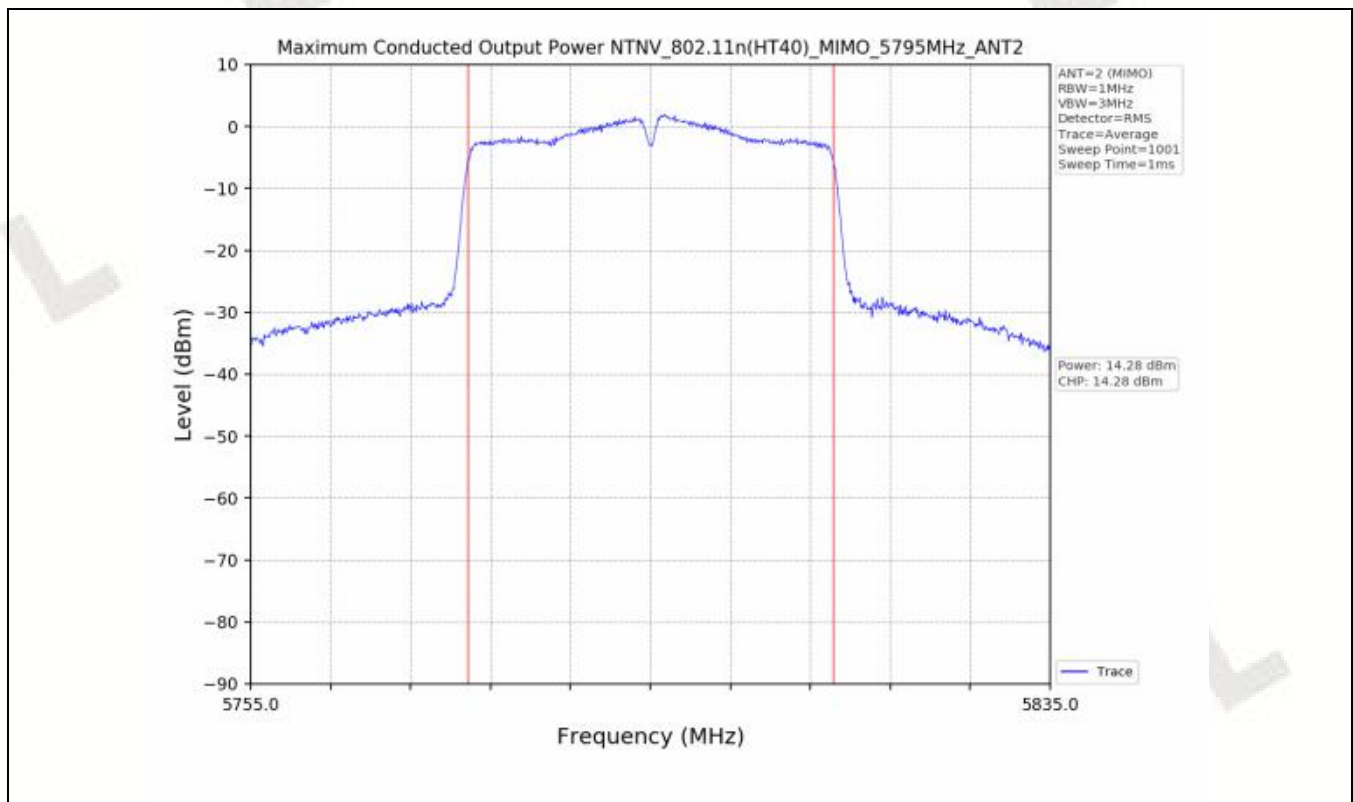
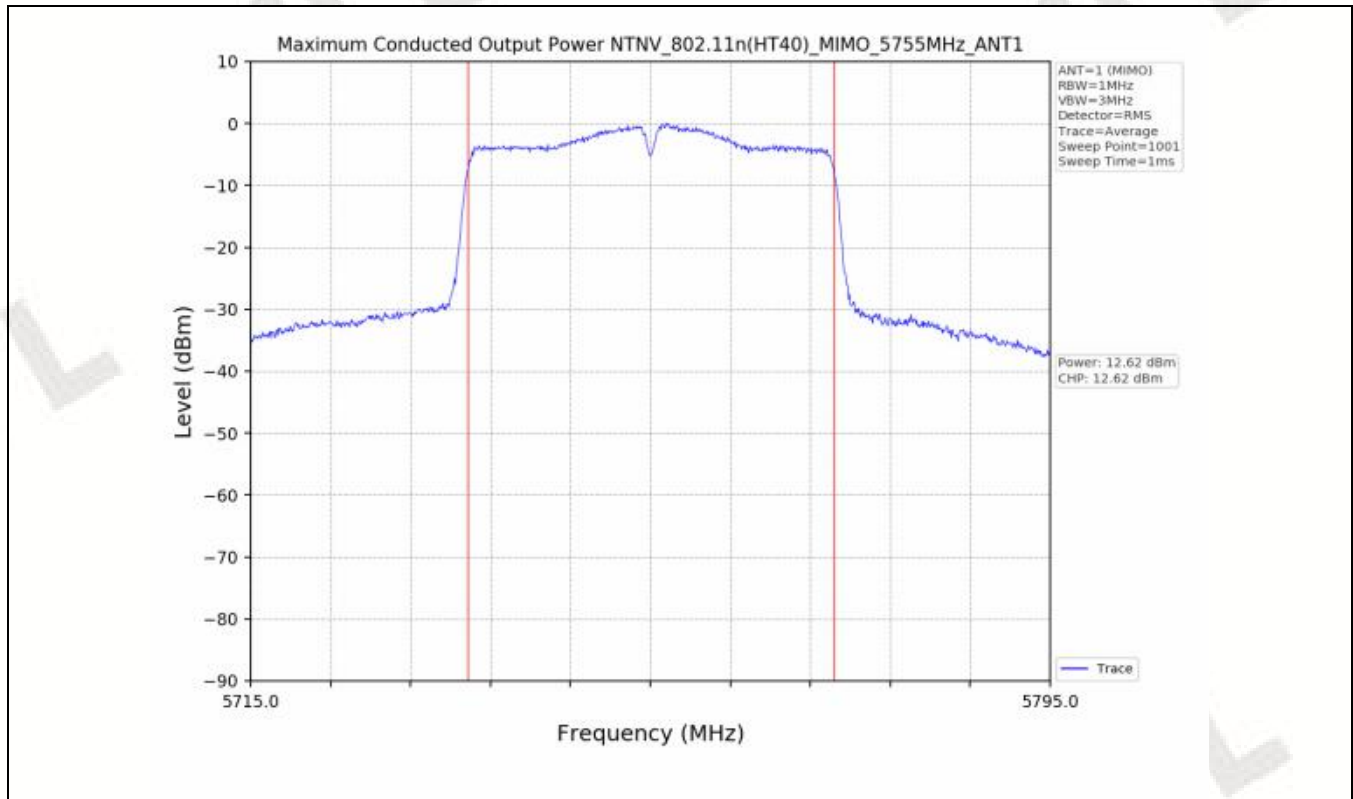


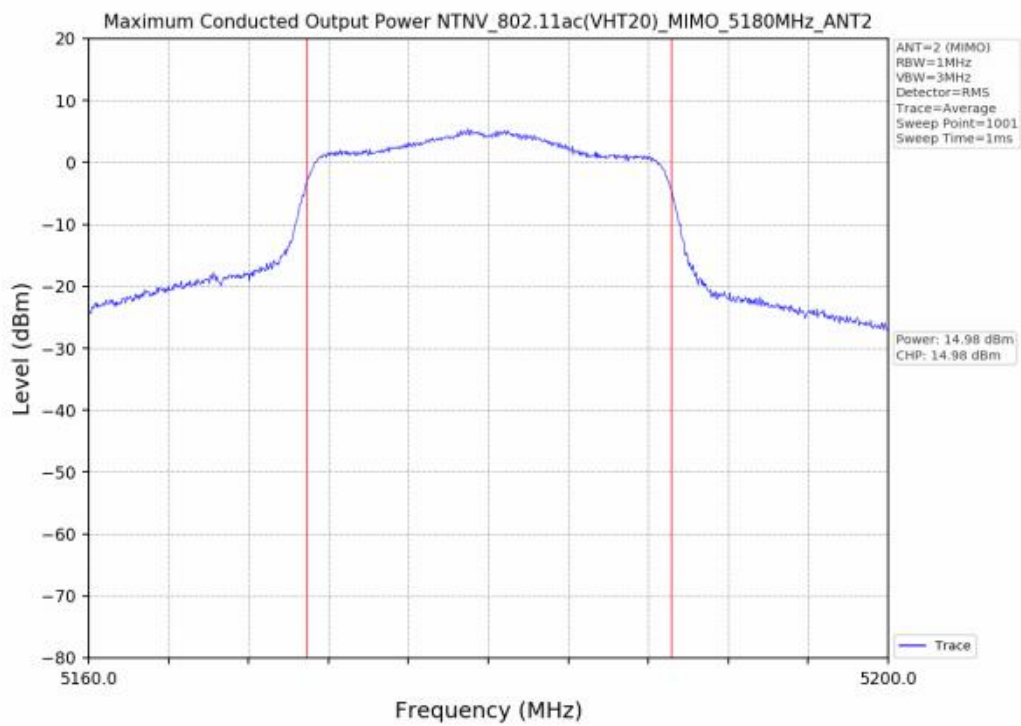
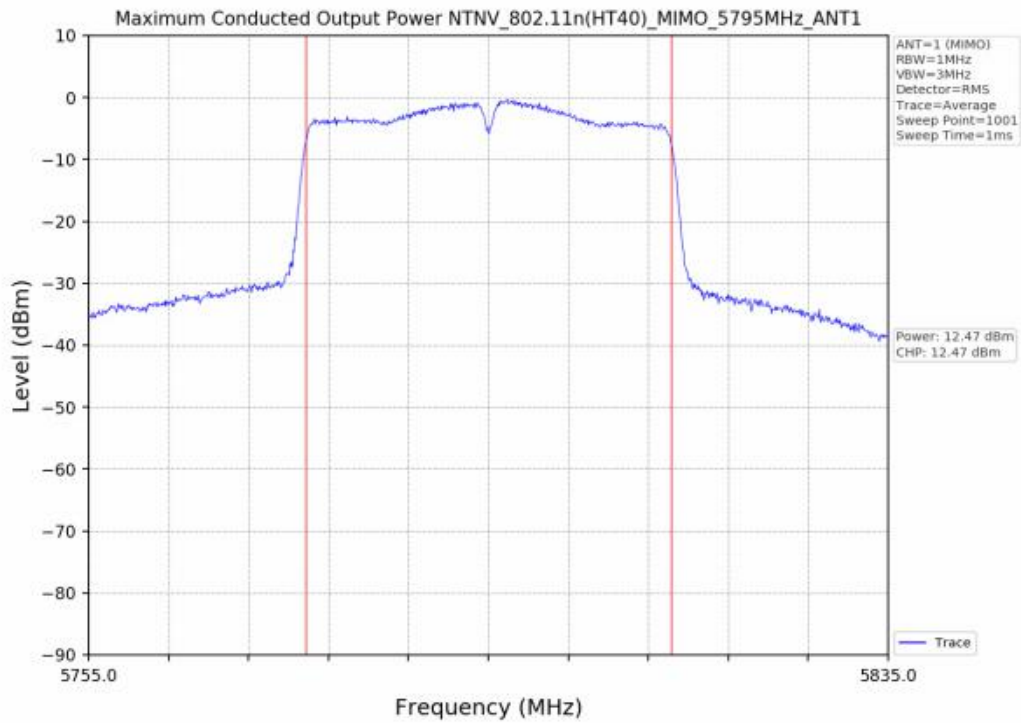


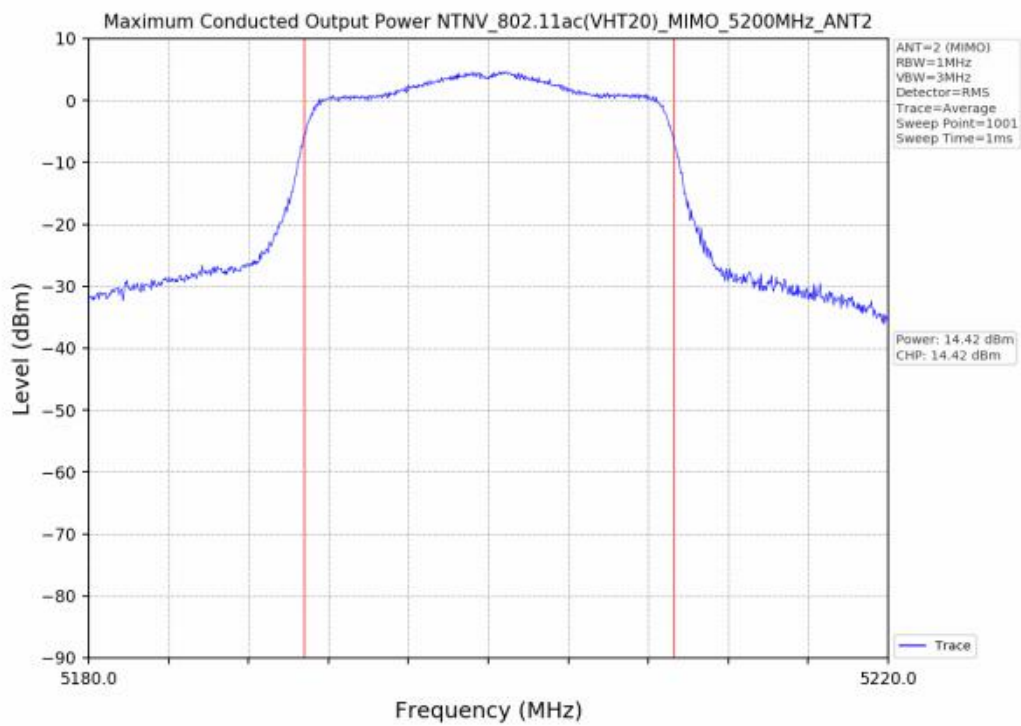
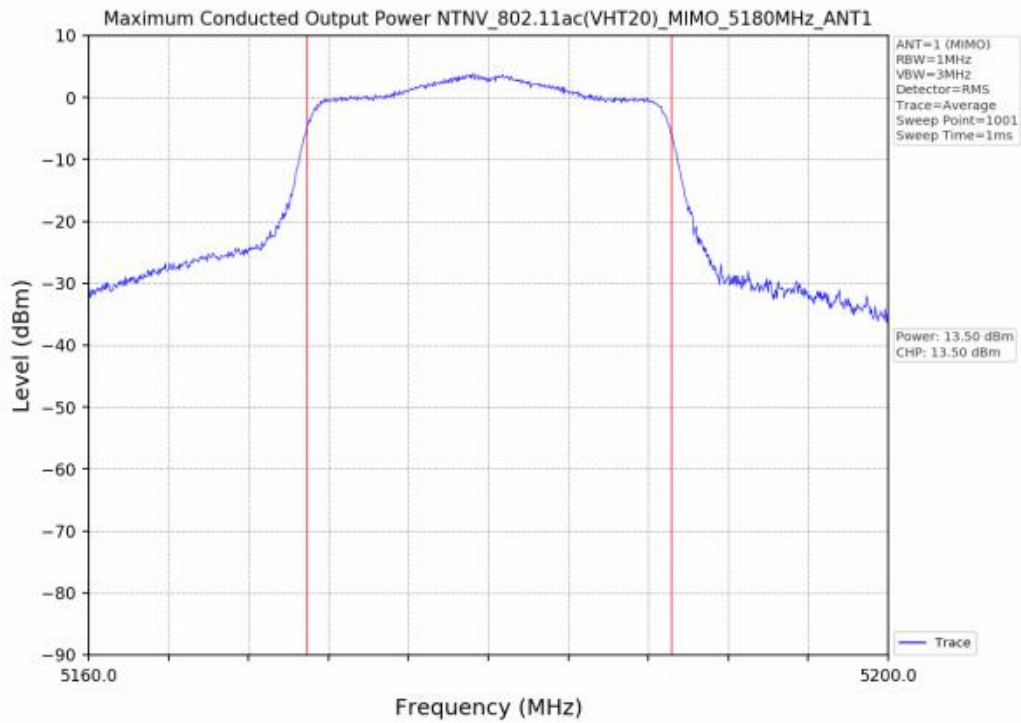


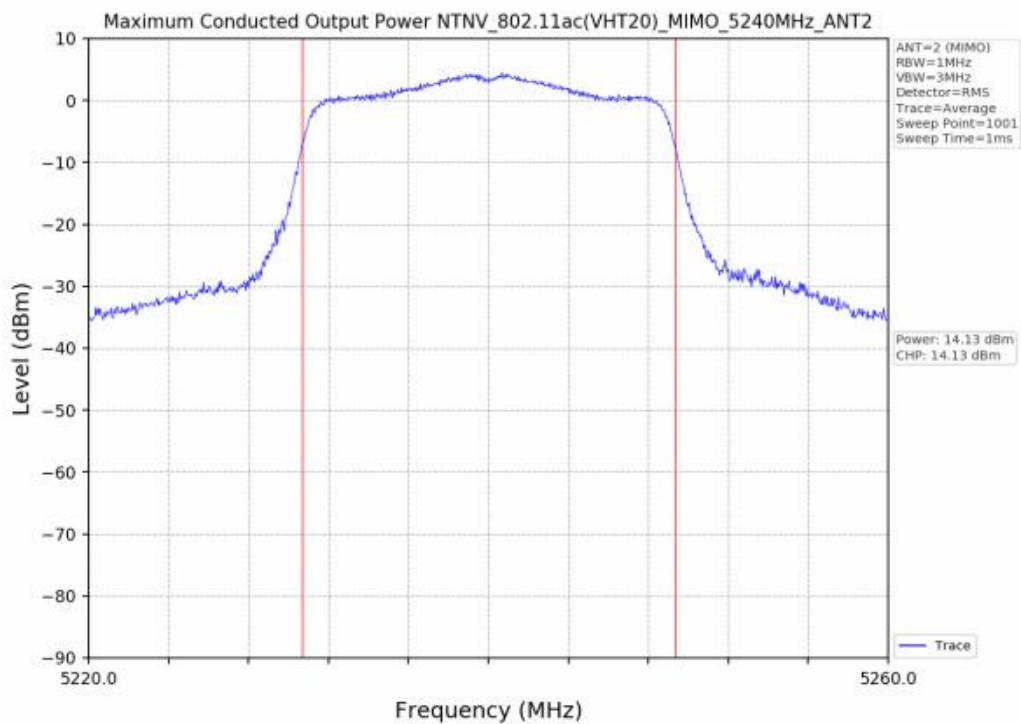
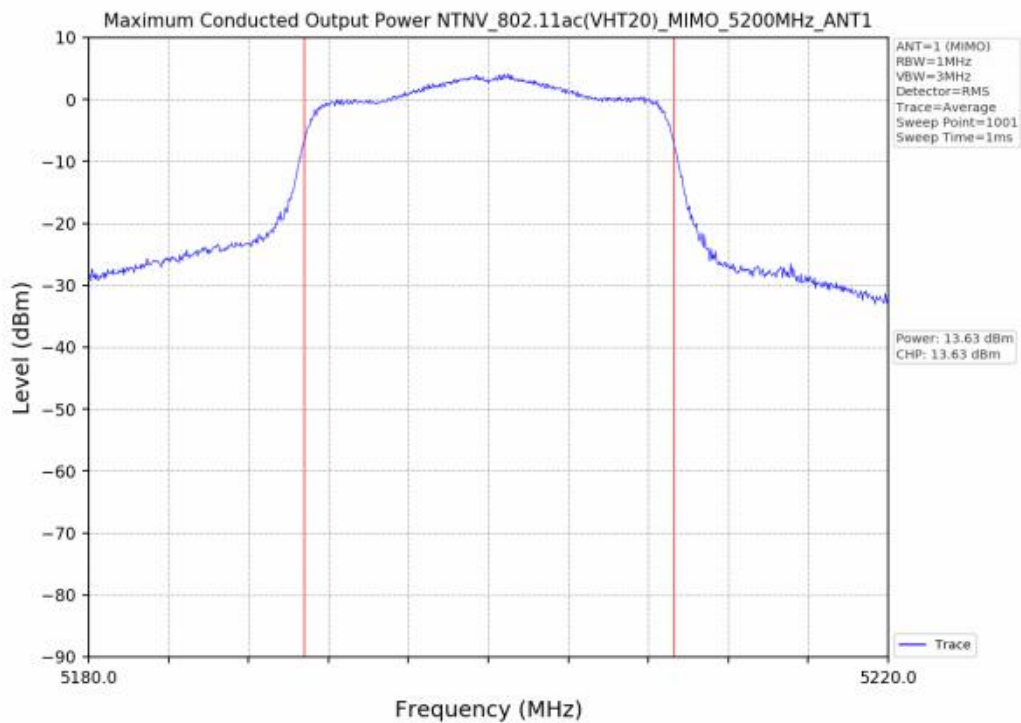


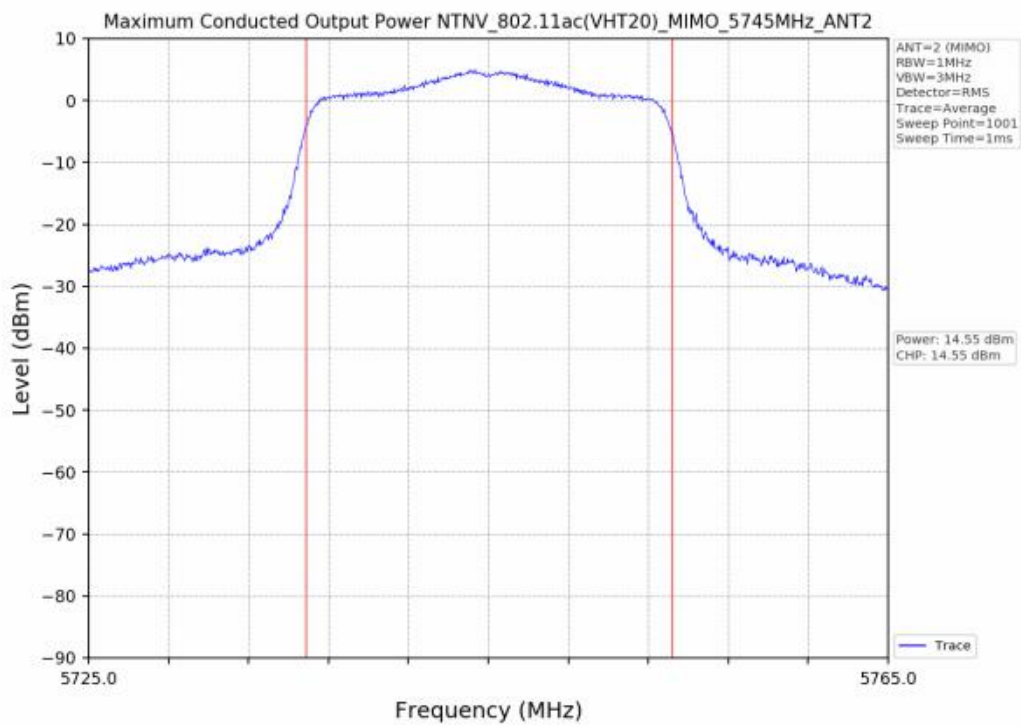
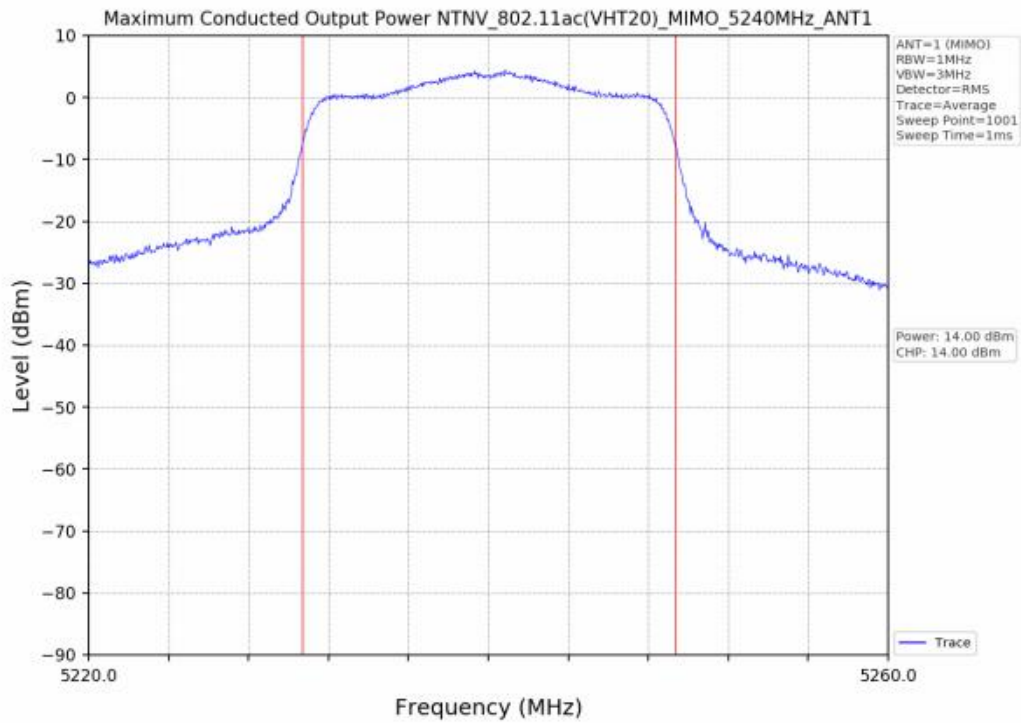


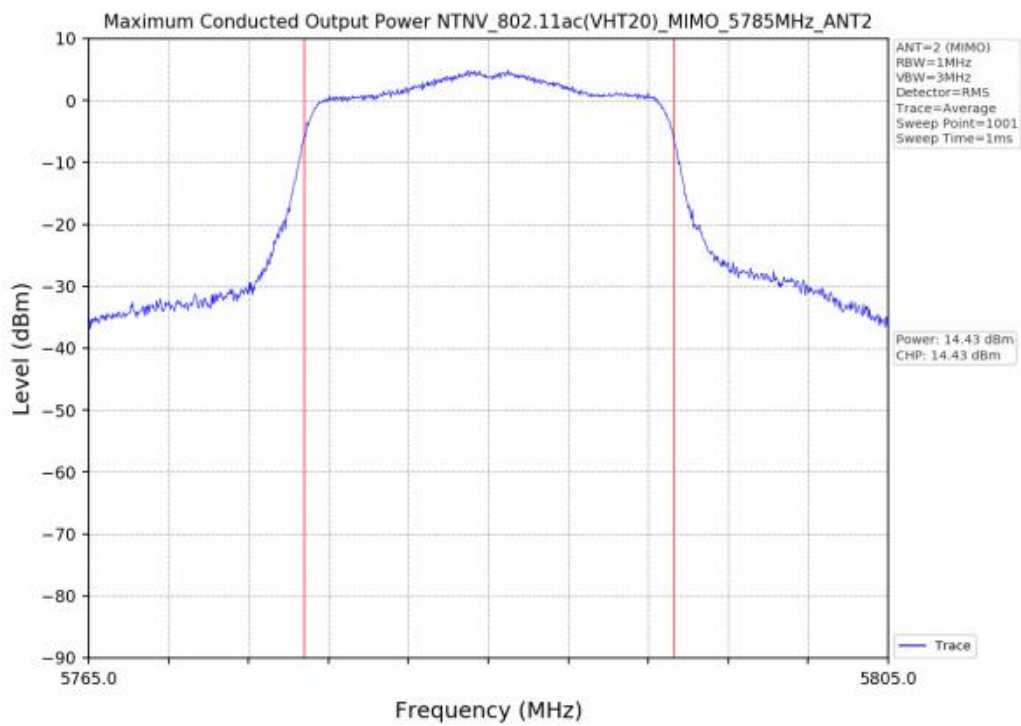
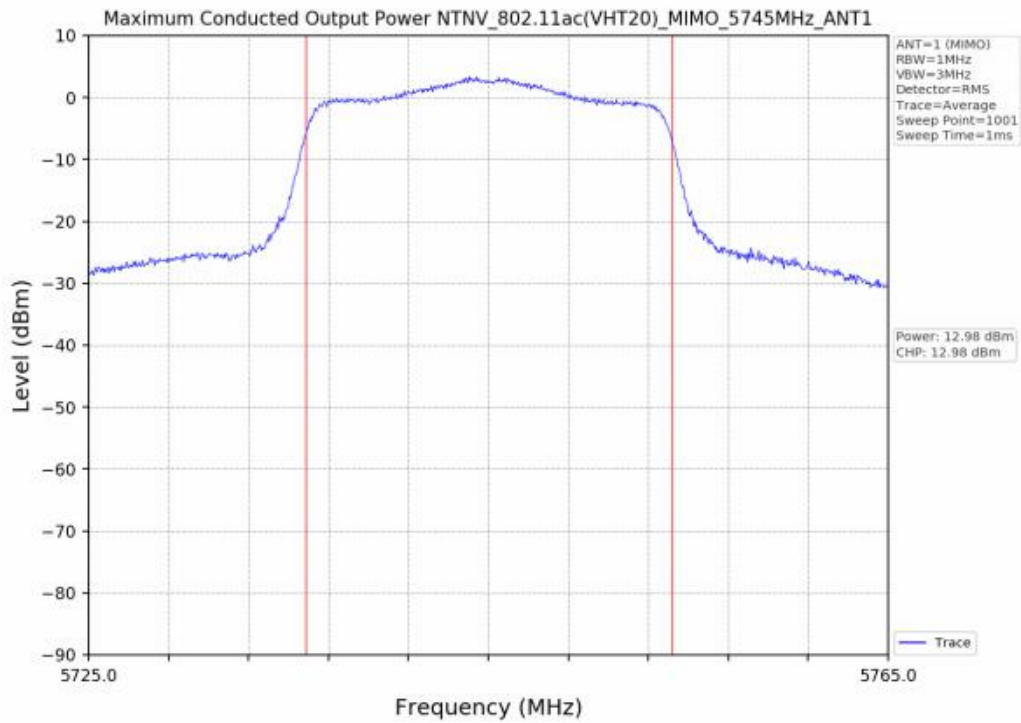


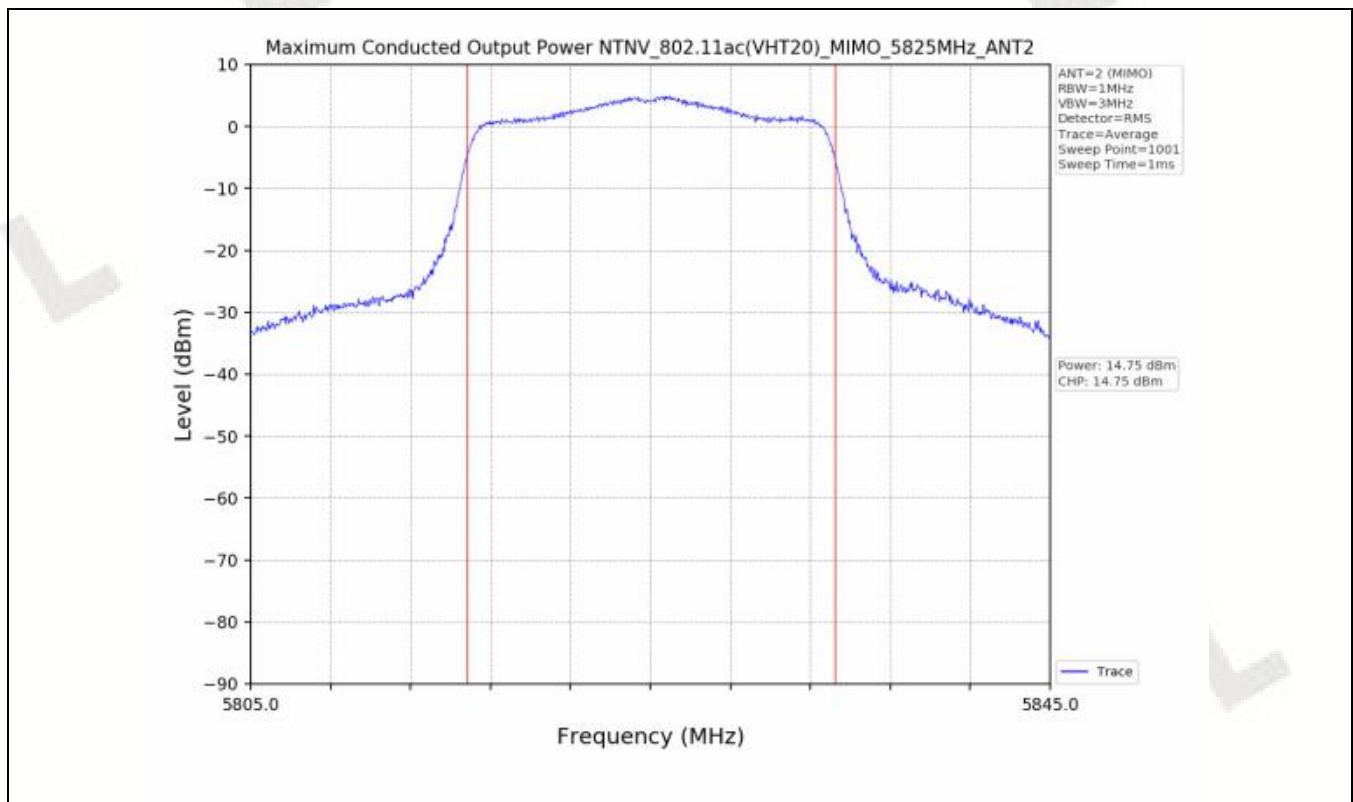
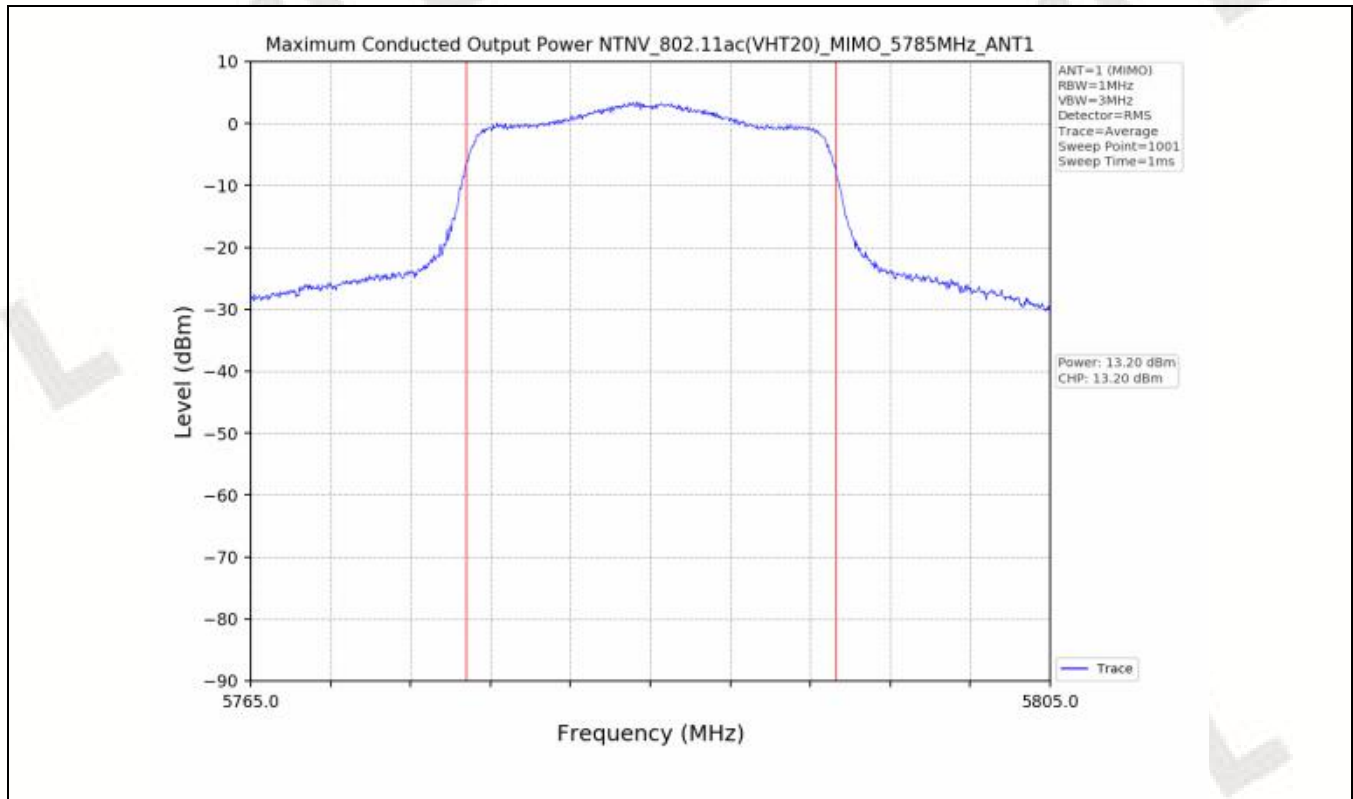


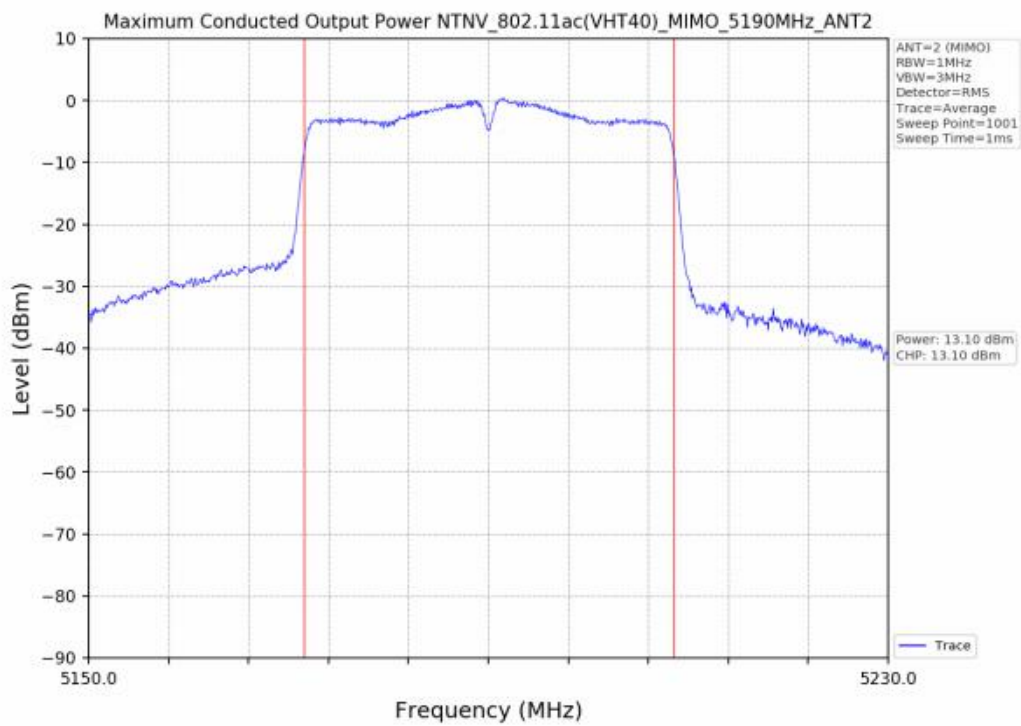
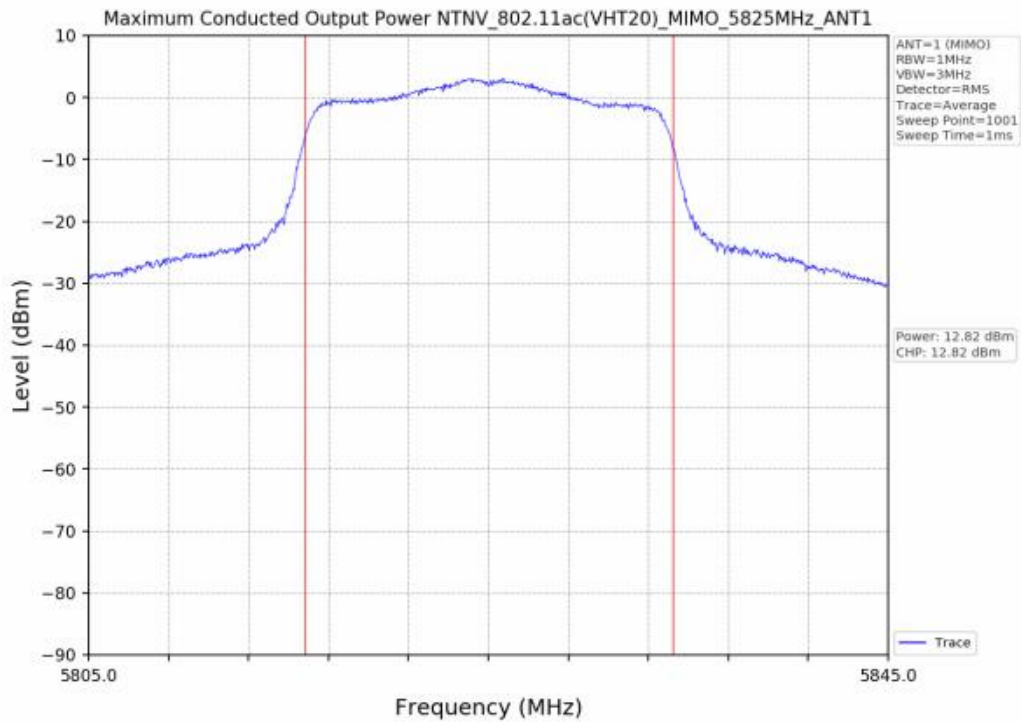


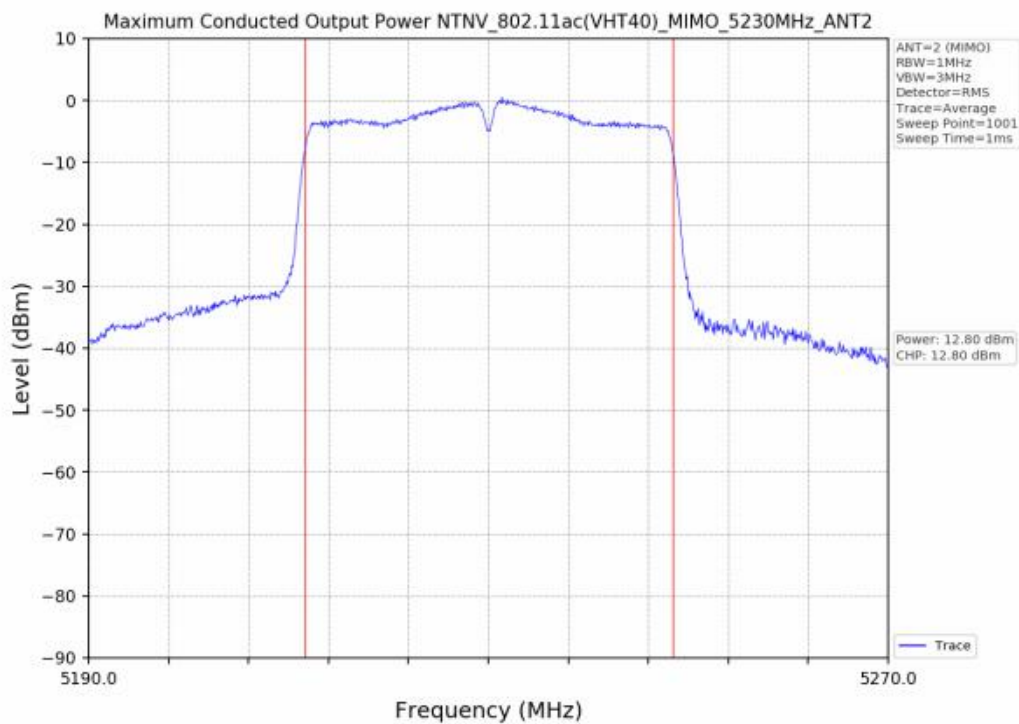
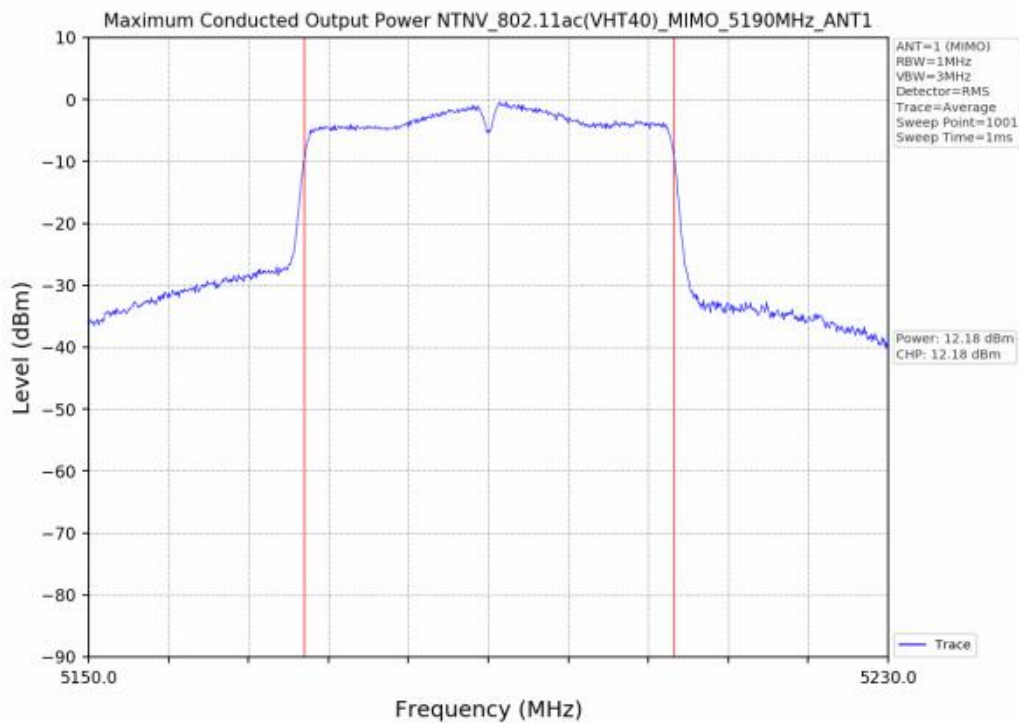


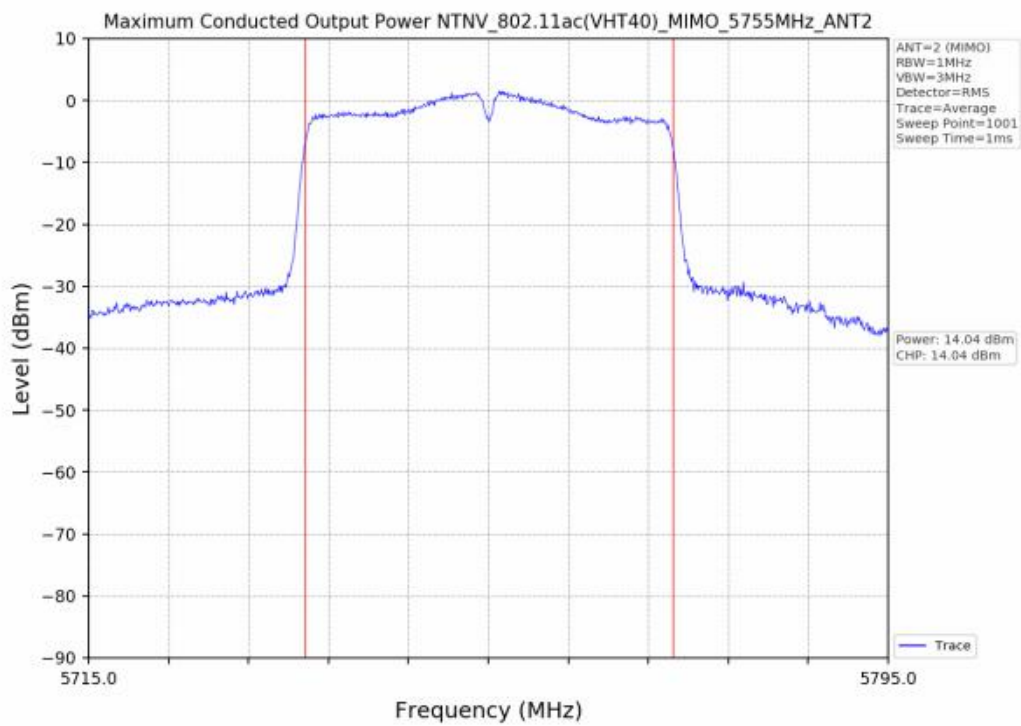
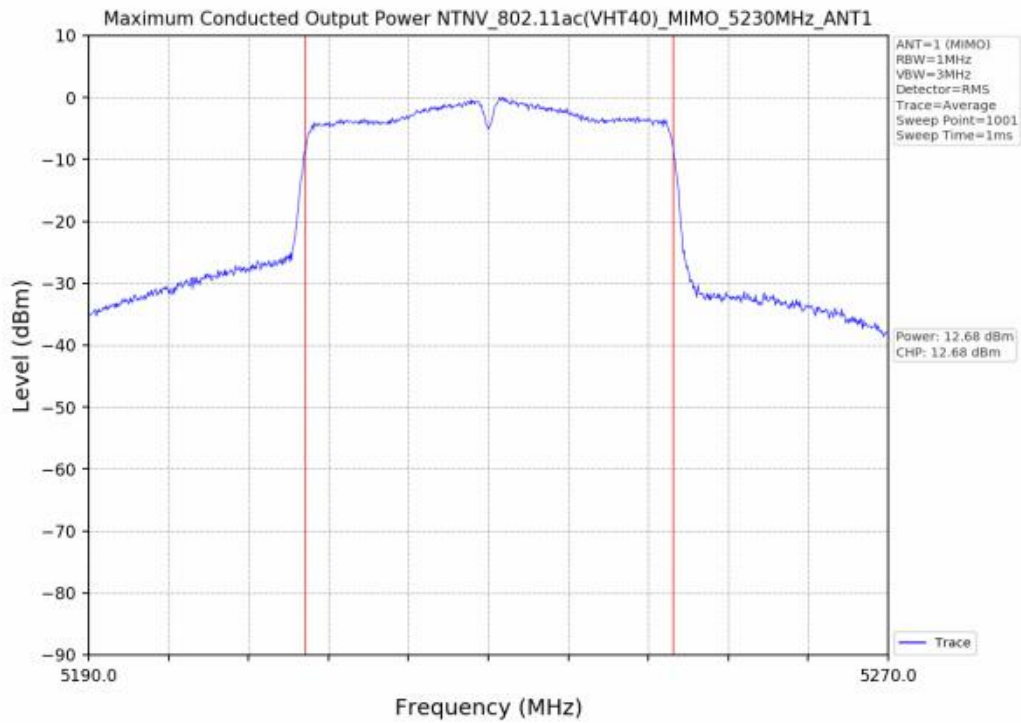


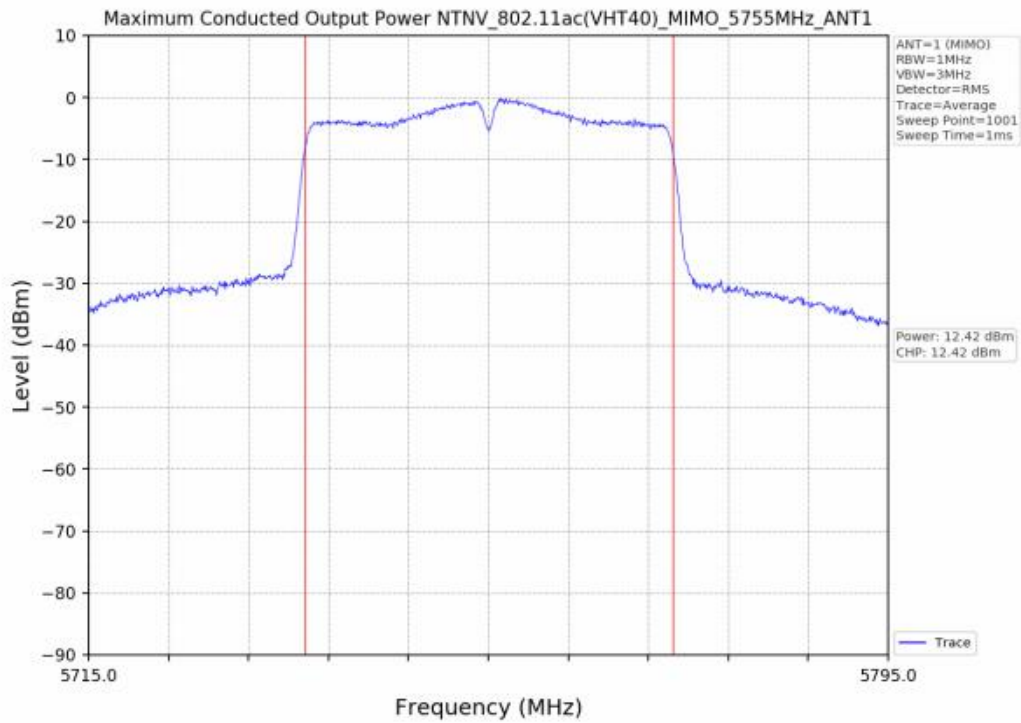


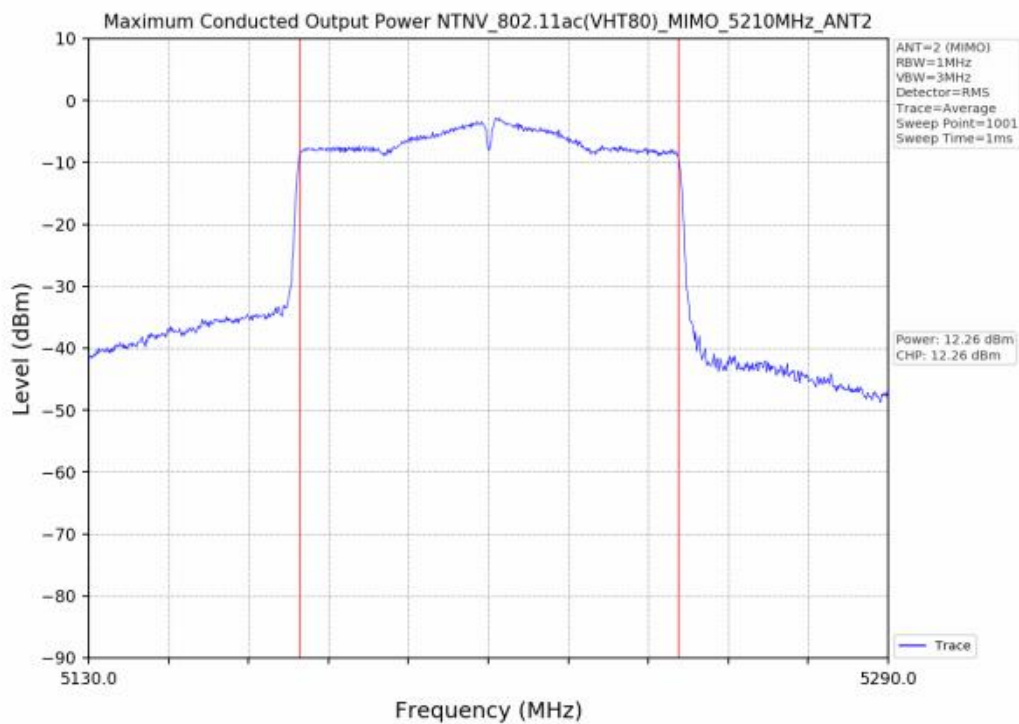
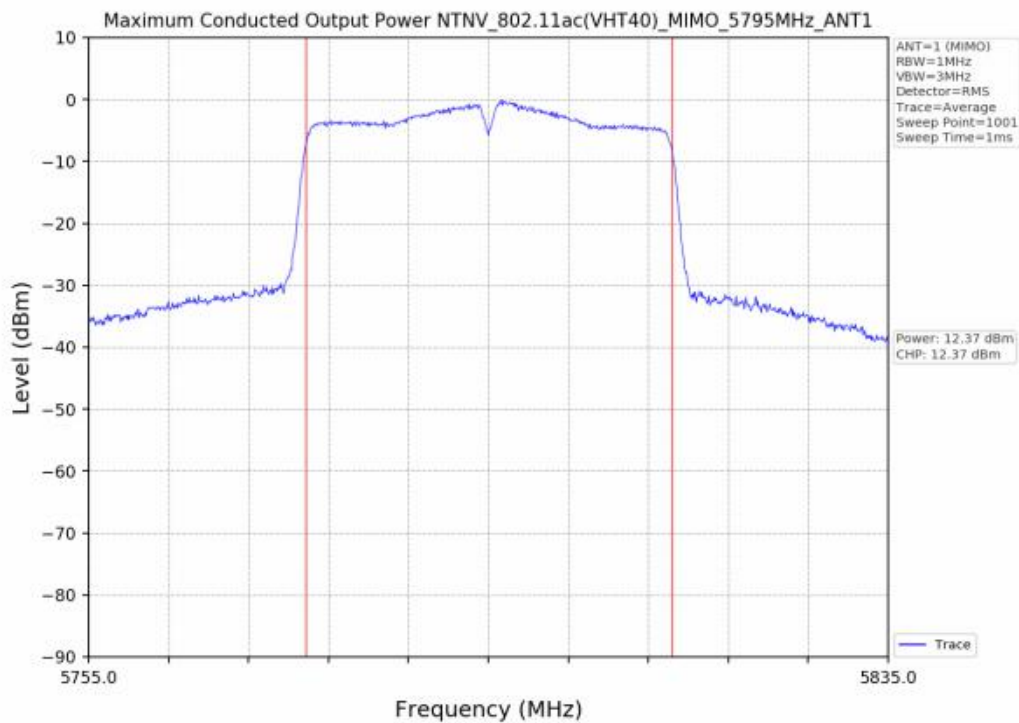


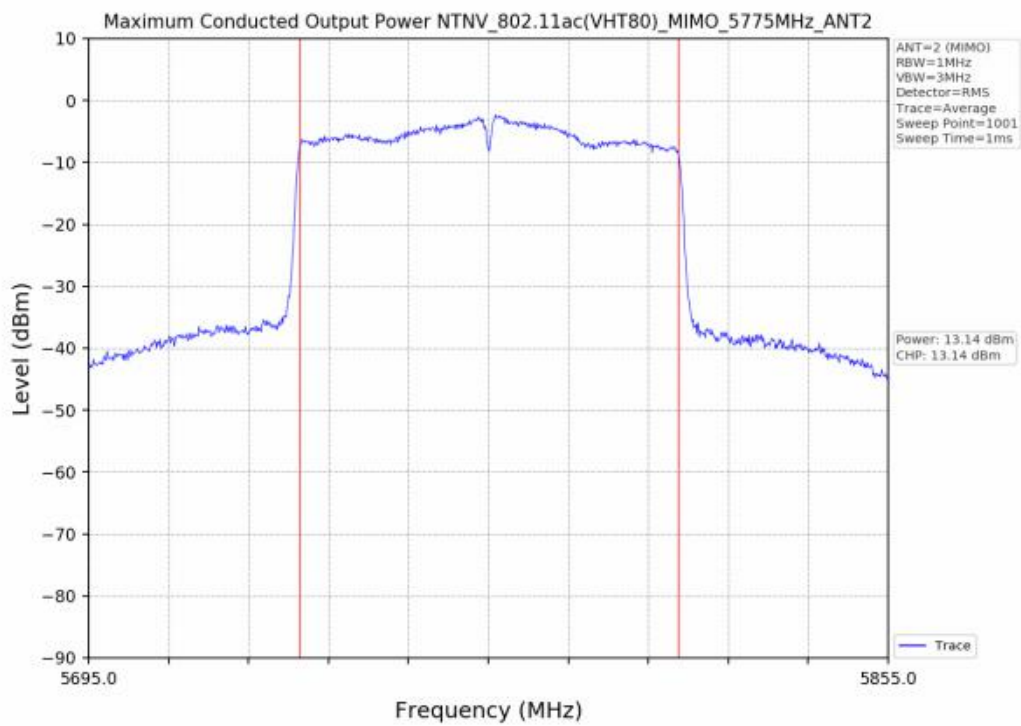
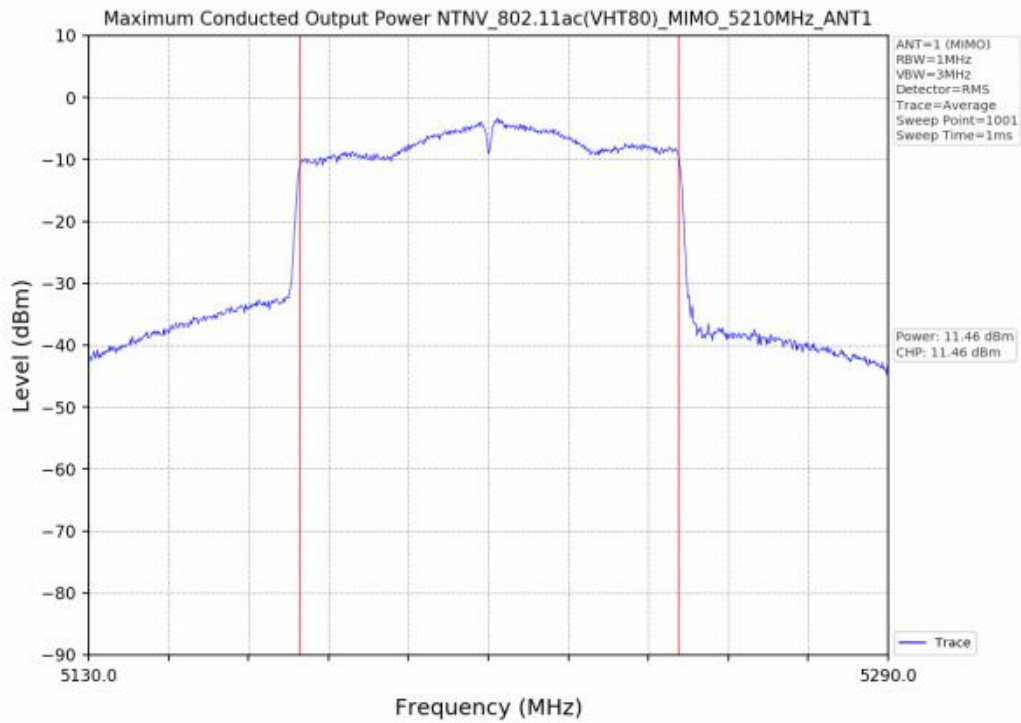


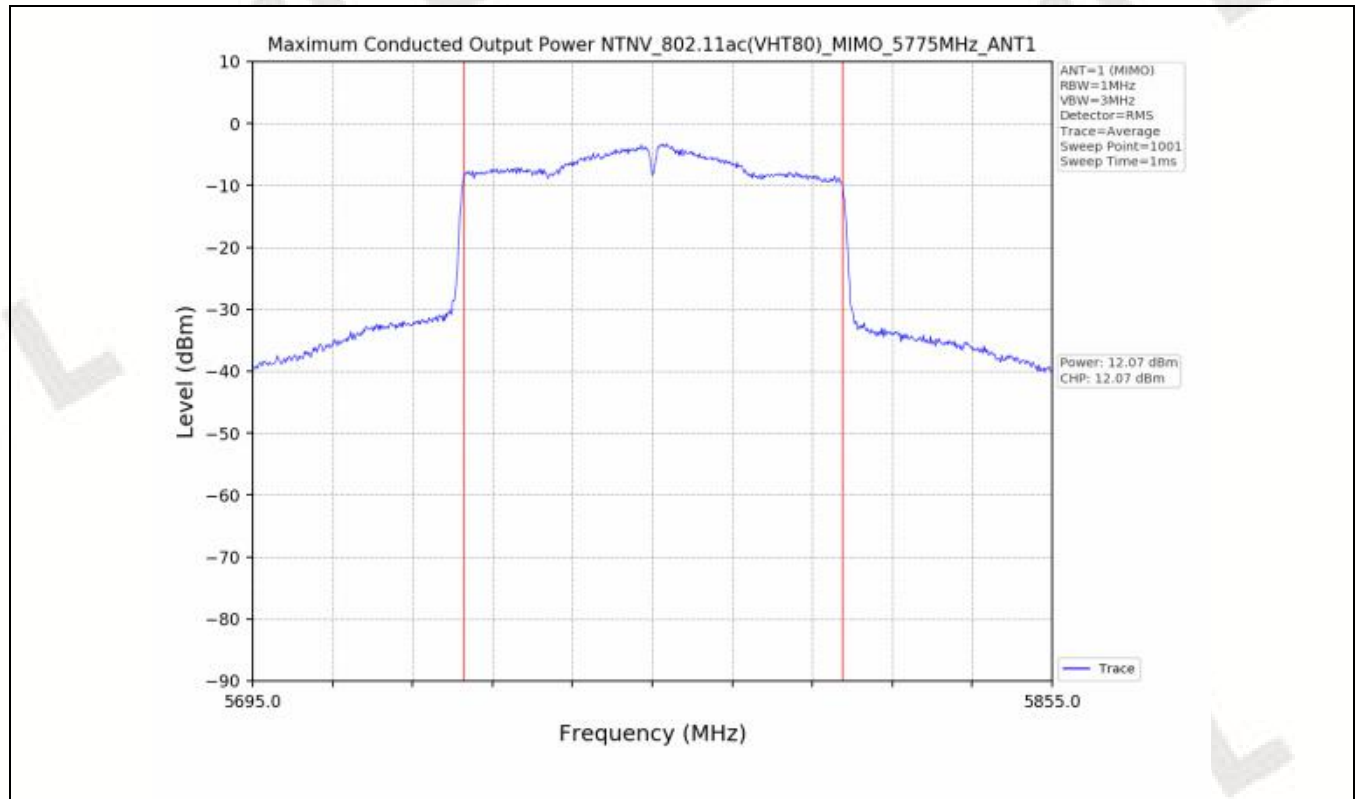












3. Maximum Power Spectral Density (PSD)

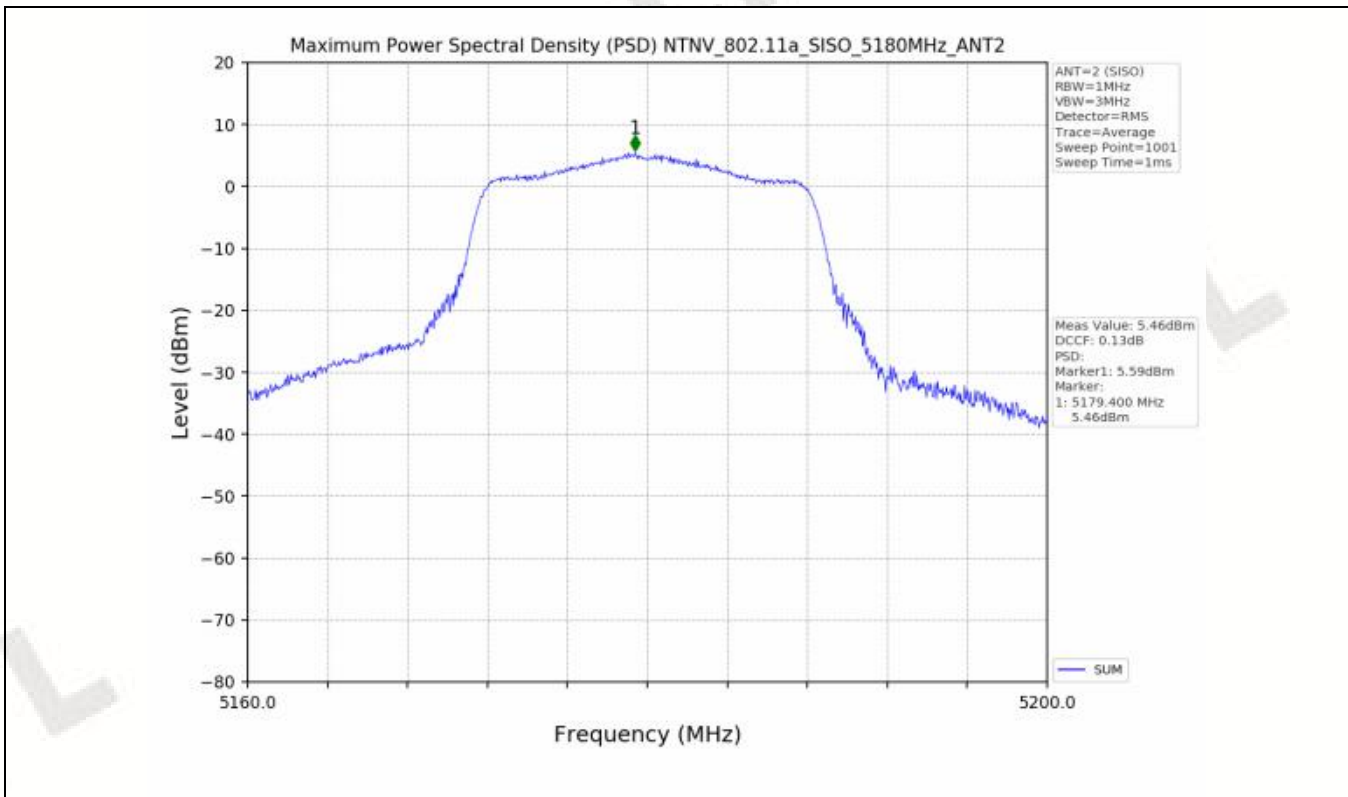
3.1 Test Result

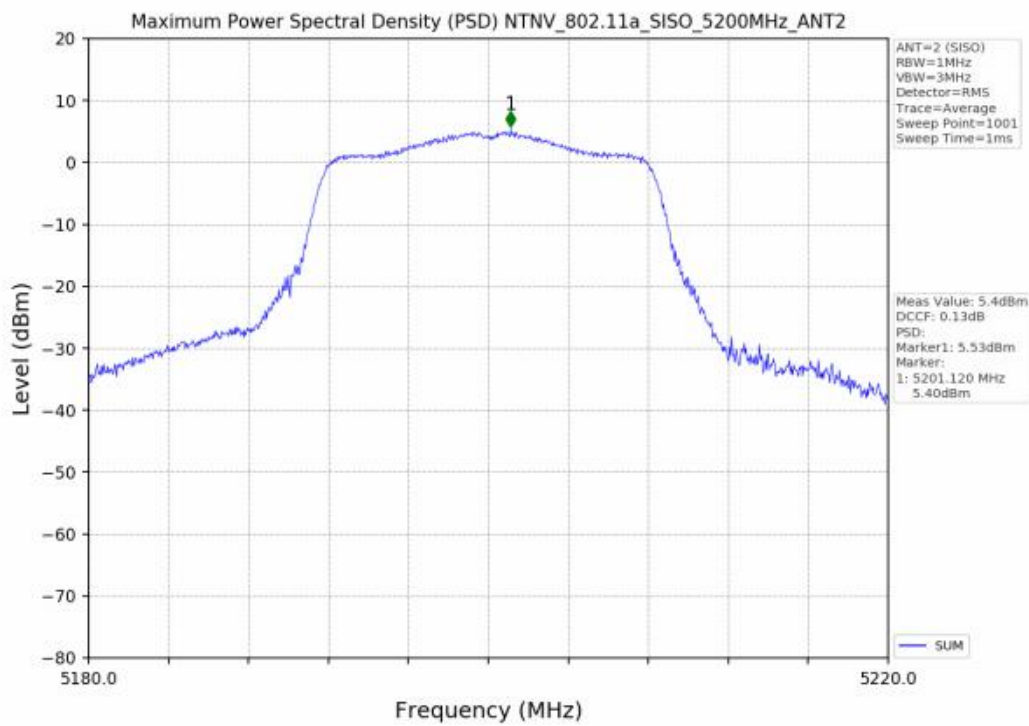
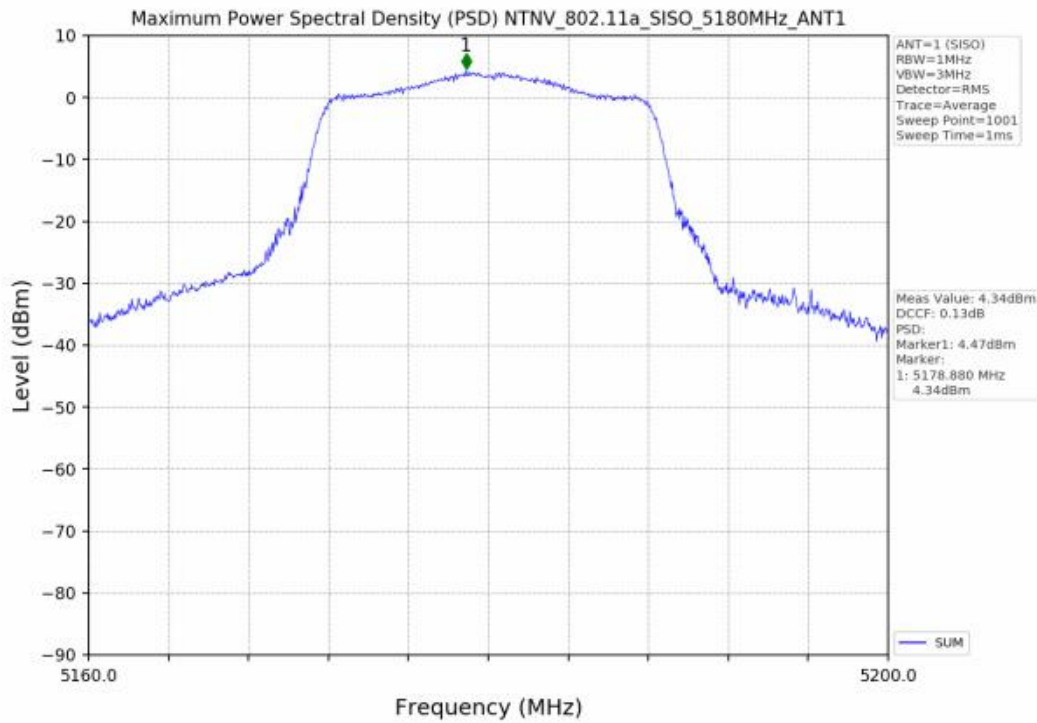
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/MHz)			Limits (dBm/MHz)	Verdict
			Ant 2	Ant 1	Total		
802.11a	5180	SISO	5.59	4.47	/	≤11	PASS
	5200	SISO	5.53	4.46	/	≤11	PASS
	5240	SISO	5.59	4.92	/	≤11	PASS
802.11n(HT20)	5180	MIMO	5.54	4.07	7.78	≤11	PASS
	5200	MIMO	4.73	4.28	7.36	≤11	PASS
	5240	MIMO	4.73	4.72	7.57	≤11	PASS
802.11n(HT40)	5190	MIMO	0.74	-0.07	3.34	≤11	PASS
	5230	MIMO	0.41	0.26	3.24	≤11	PASS
802.11ac(VHT20)	5180	MIMO	5.42	4.16	7.74	≤11	PASS
	5200	MIMO	4.85	4.27	7.42	≤11	PASS
	5240	MIMO	4.60	4.36	7.32	≤11	PASS
802.11ac(VHT40)	5190	MIMO	1.03	-0.15	3.29	≤11	PASS
	5230	MIMO	0.48	0.54	3.28	≤11	PASS
802.11ac(VHT80)	5210	MIMO	-2.48	-3.14	0.21	≤11	PASS

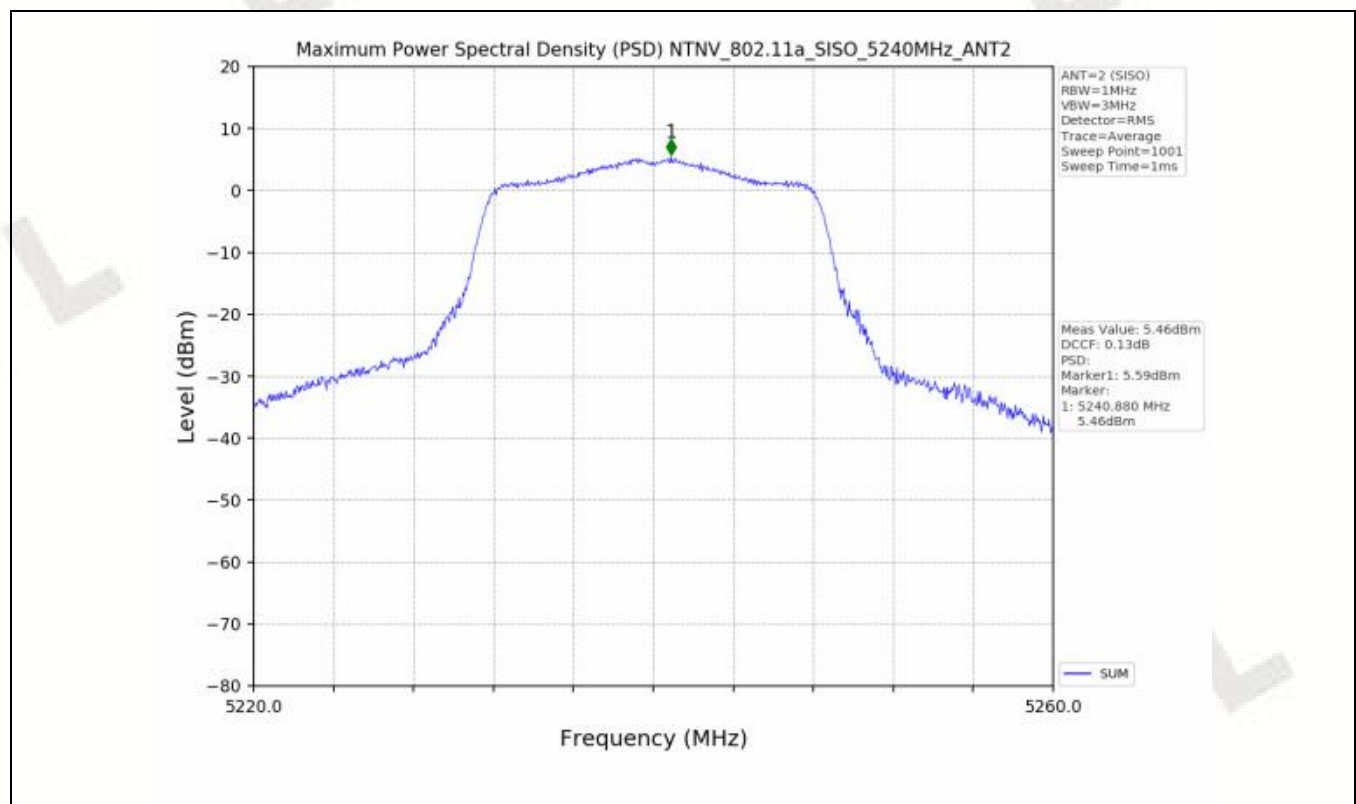
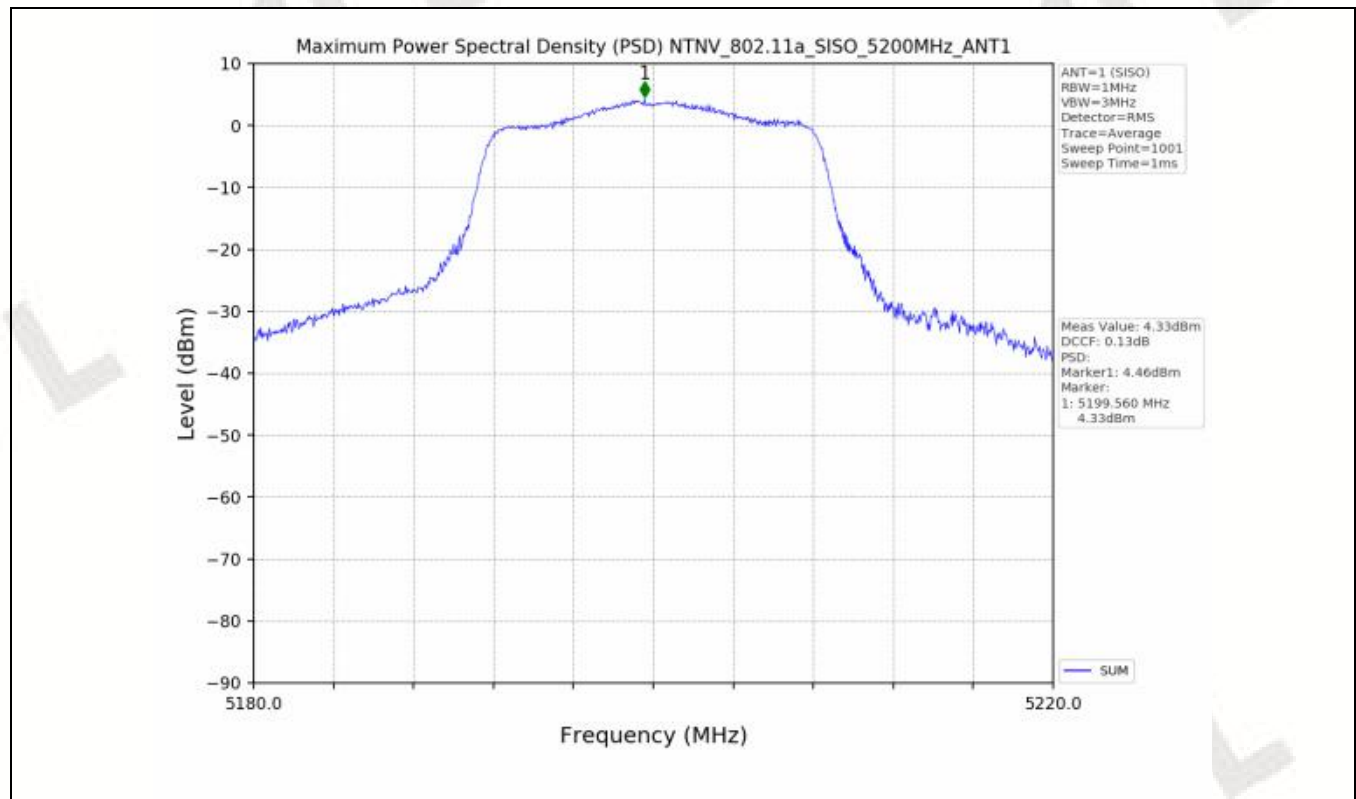
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/500kHz)			Limits (dBm/500kHz)	Verdict
			Ant 2	Ant 1	Total		
802.11a	5745	SISO	3.09	1.28	/	≤30	PASS
	5785	SISO	2.91	1.62	/	≤30	PASS
	5825	SISO	3.23	1.52	/	≤30	PASS

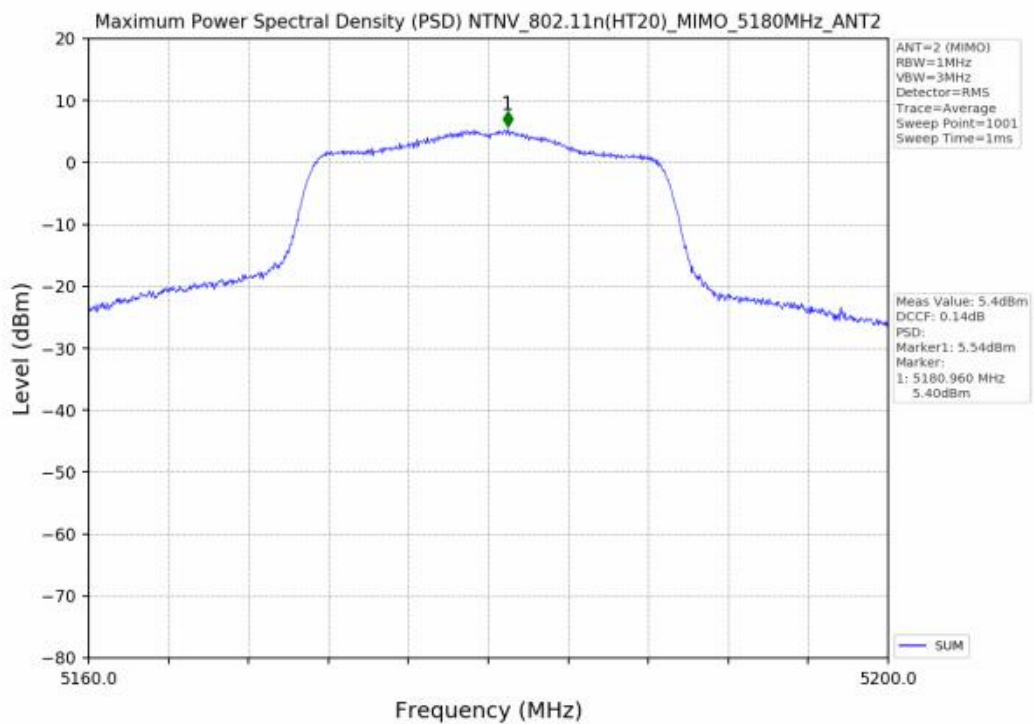
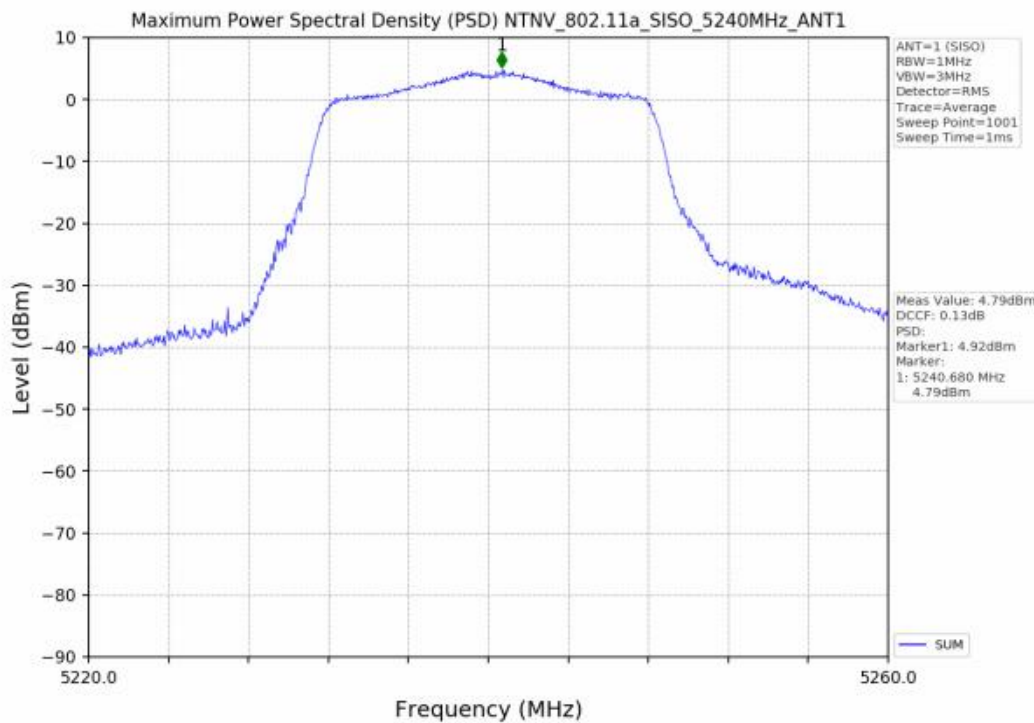
802.11n(HT20)	5745	MIMO	2.60	0.88	4.81	≤30	PASS
	5785	MIMO	2.58	1.45	4.85	≤30	PASS
	5825	MIMO	2.93	0.78	4.74	≤30	PASS
802.11n(HT40)	5755	MIMO	-0.52	-2.42	1.57	≤30	PASS
	5795	MIMO	-0.36	-2.73	1.56	≤30	PASS
802.11ac(VHT20)	5745	MIMO	2.65	1.05	4.69	≤30	PASS
	5785	MIMO	2.70	1.61	4.91	≤30	PASS
	5825	MIMO	2.80	1.01	4.92	≤30	PASS
802.11ac(VHT40)	5755	MIMO	-0.76	-2.65	1.24	≤30	PASS
	5795	MIMO	-0.71	-2.55	1.39	≤30	PASS
802.11ac(VHT80)	5775	MIMO	-4.79	-5.32	-2.05	≤30	PASS

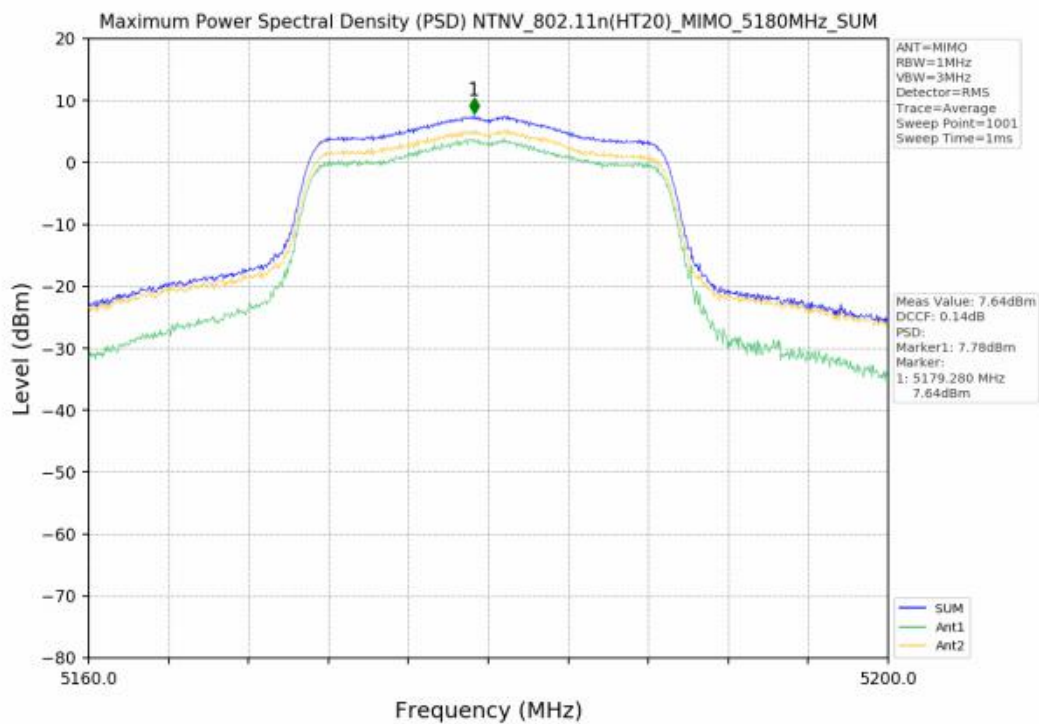
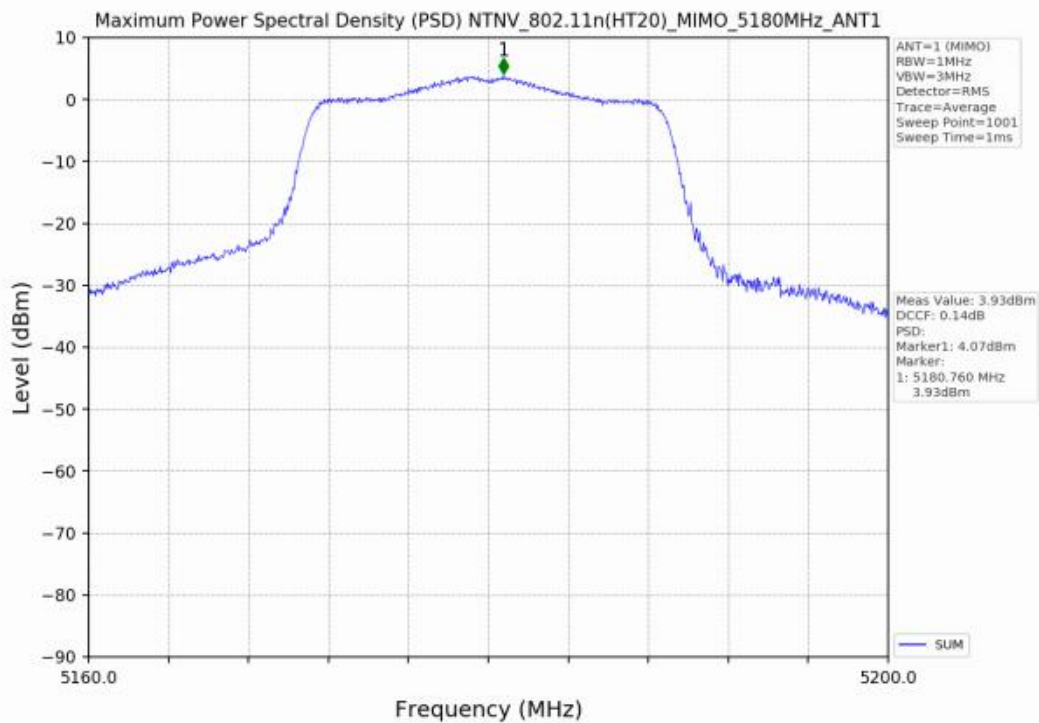
3.2 Test Graph

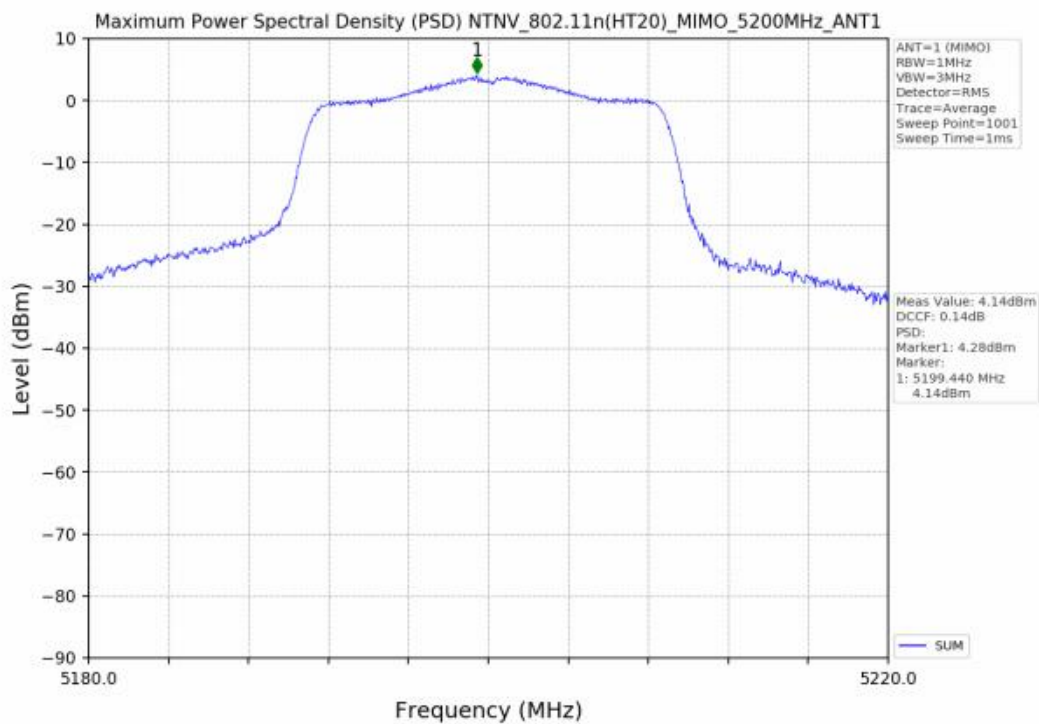
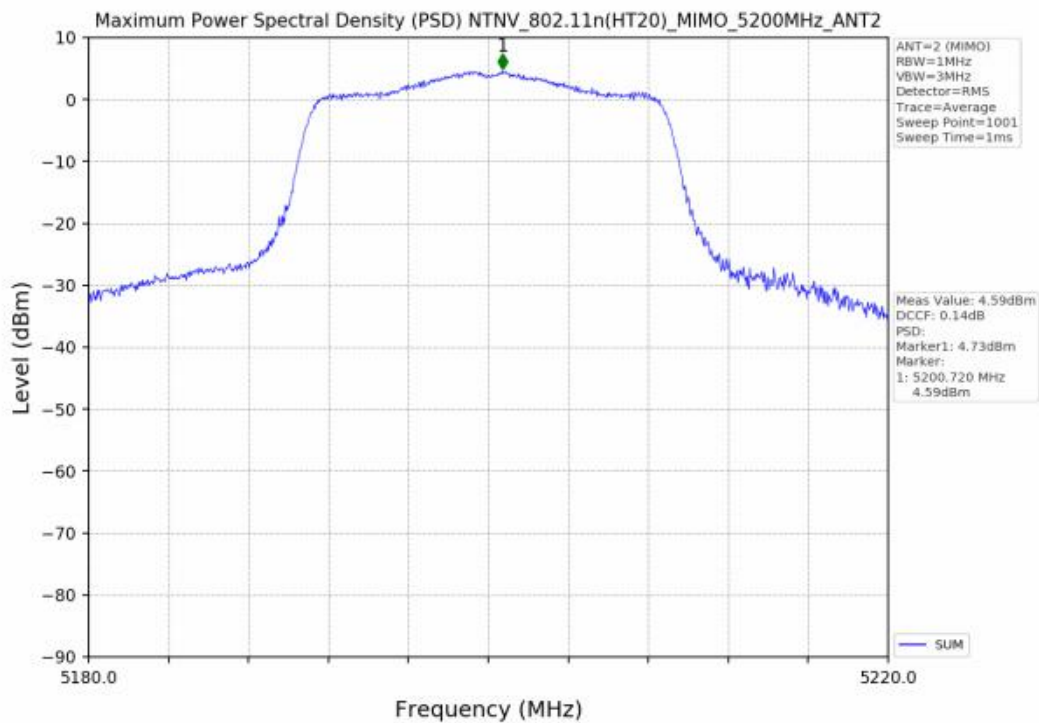


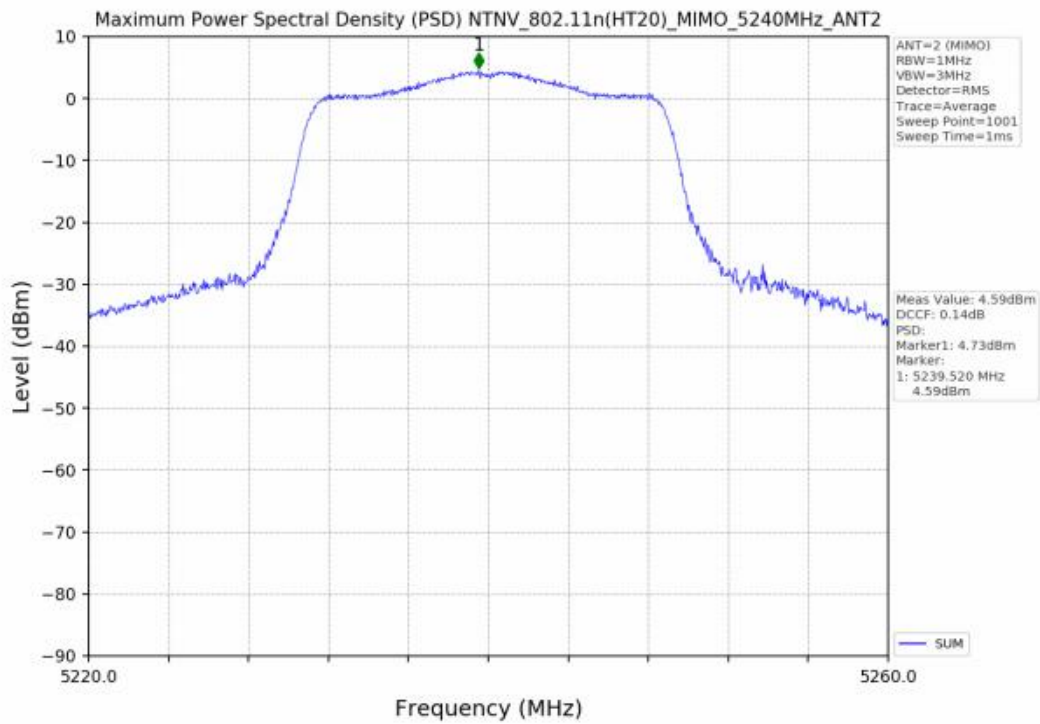
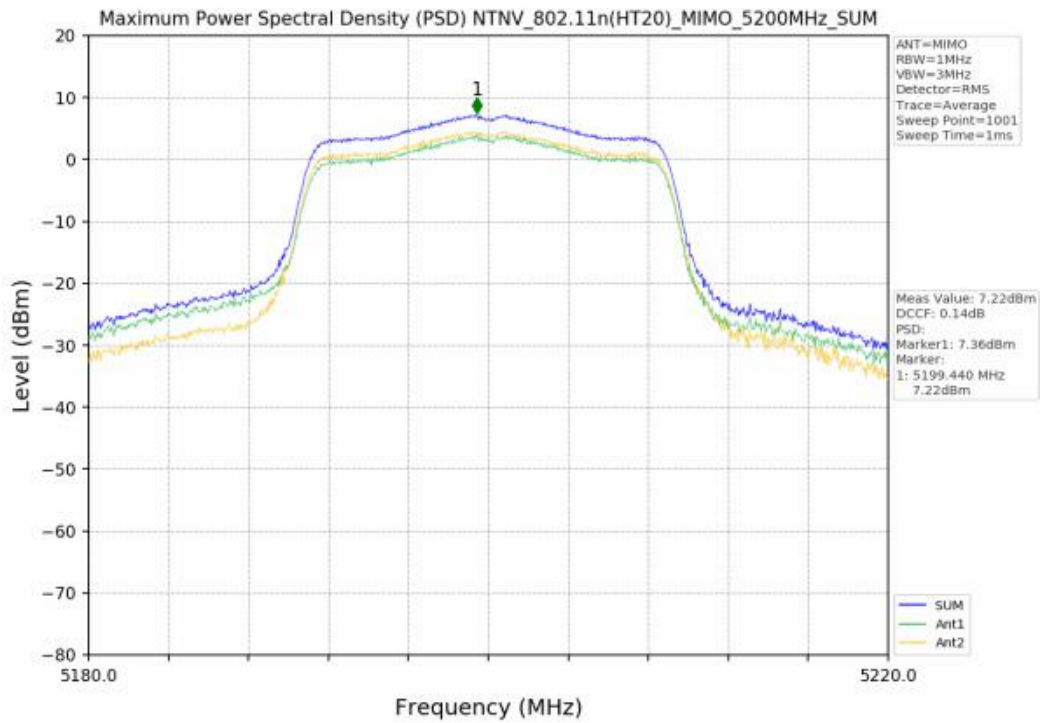


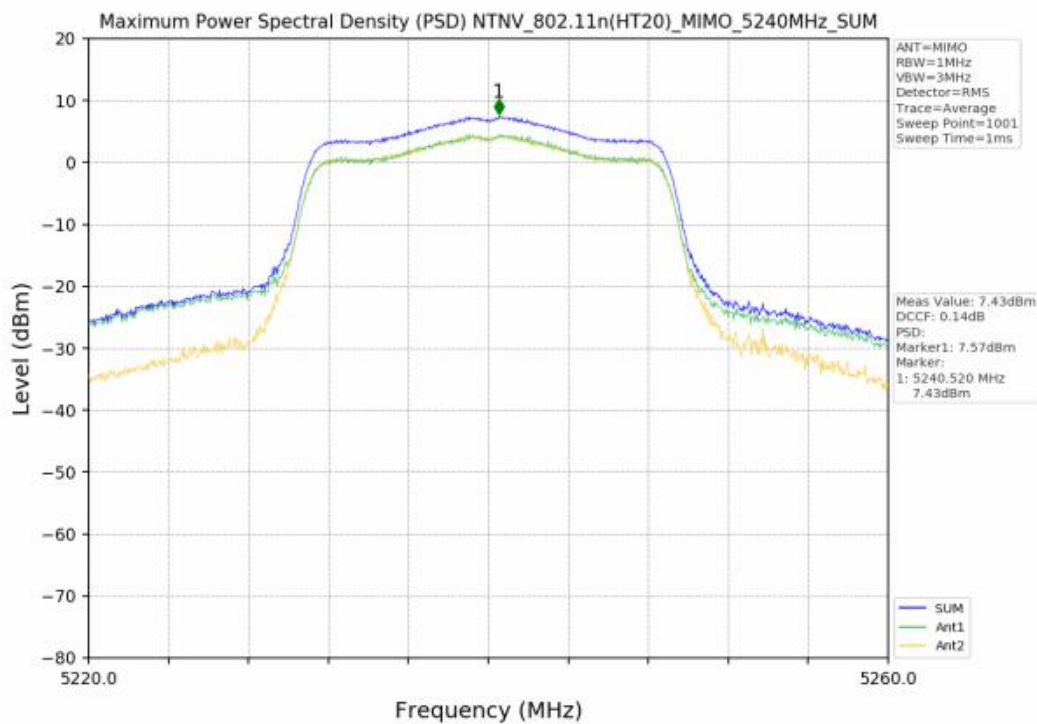
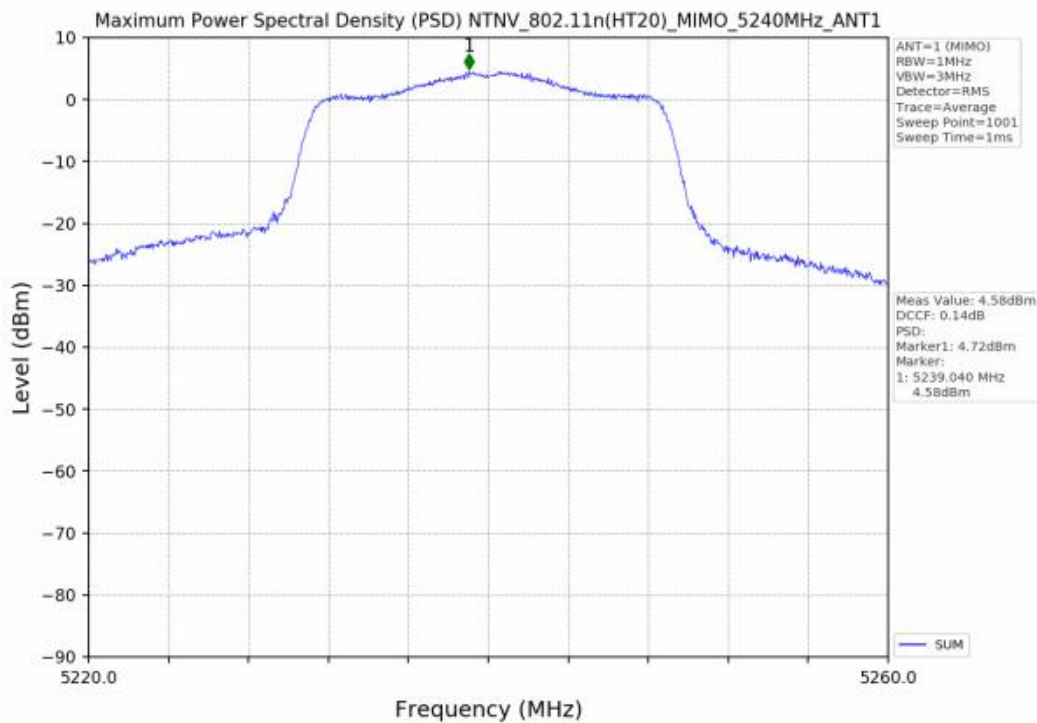


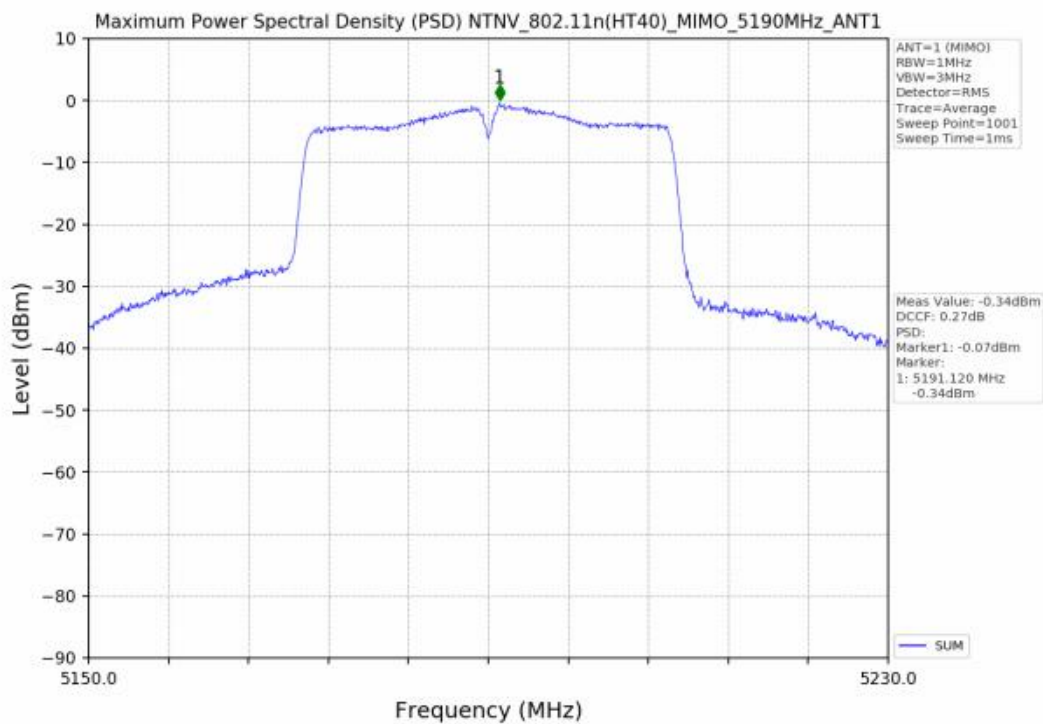
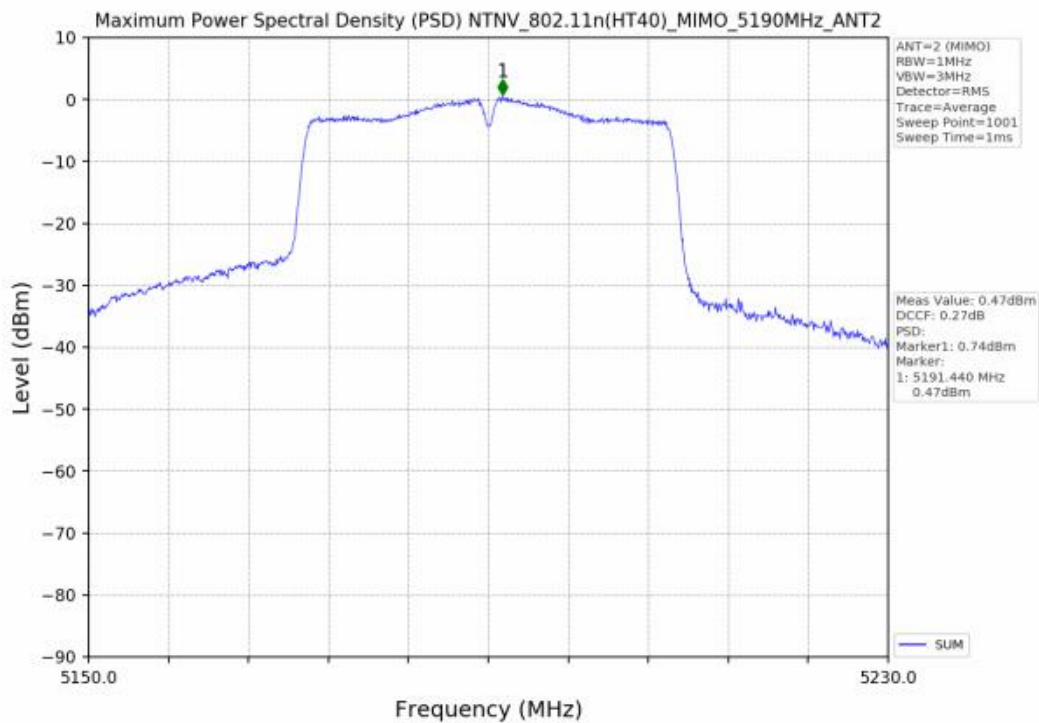


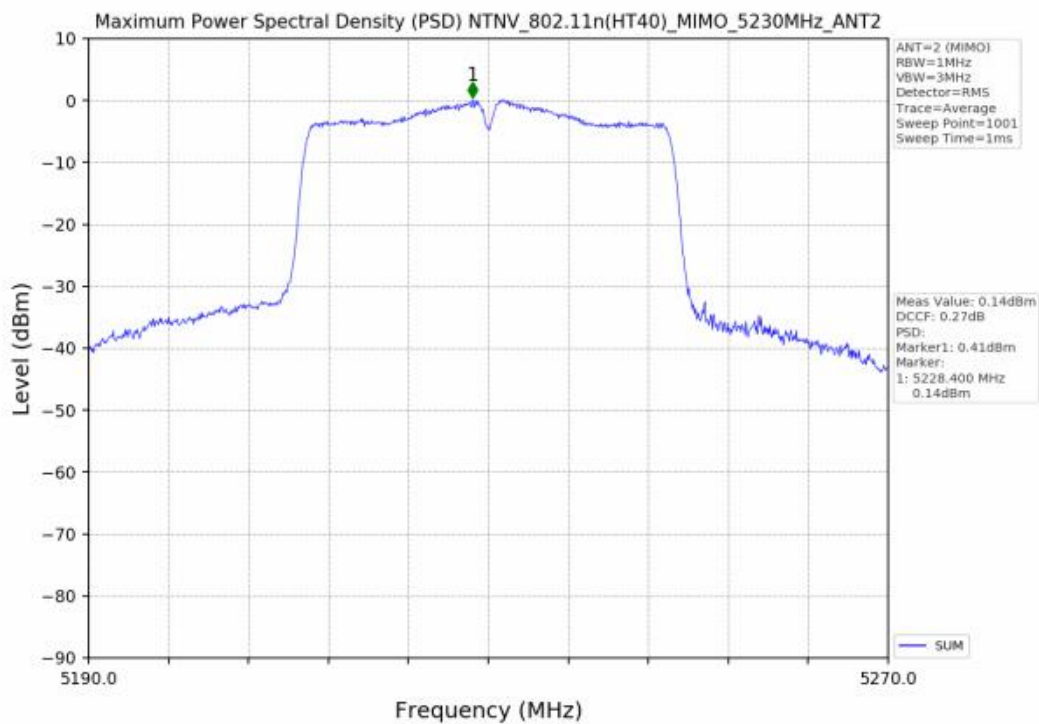
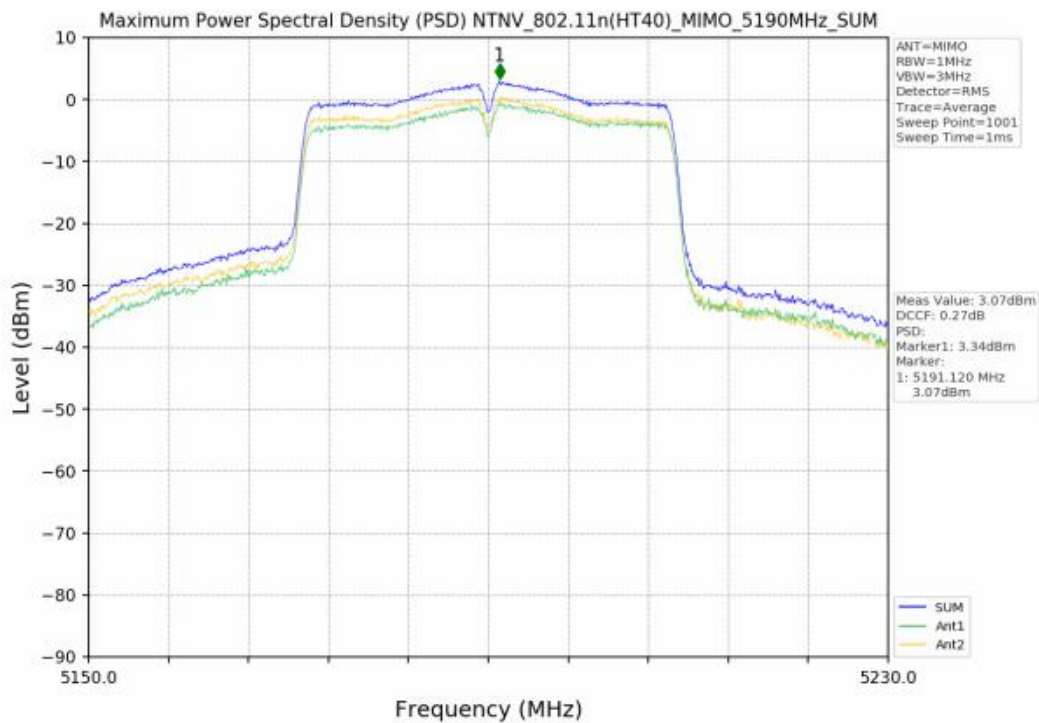


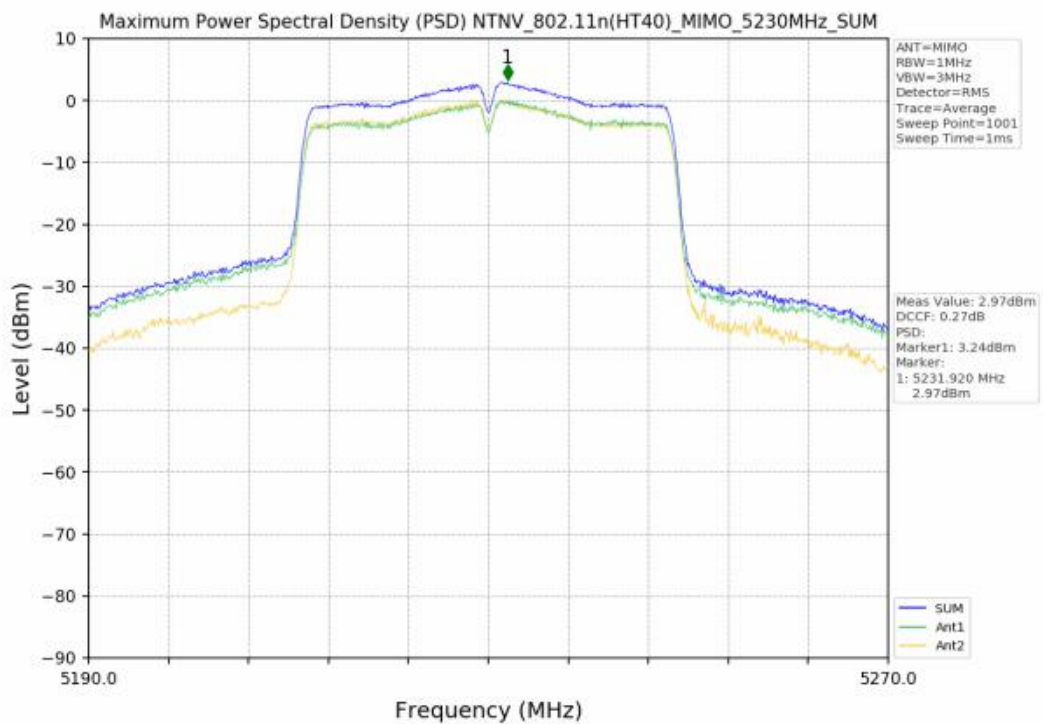
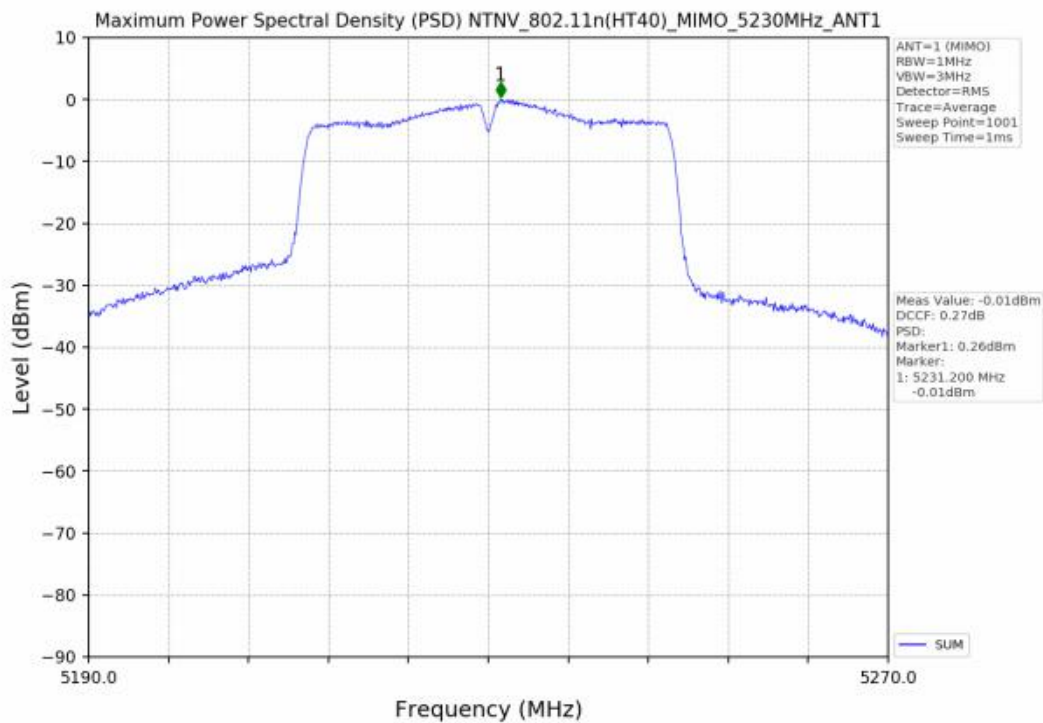


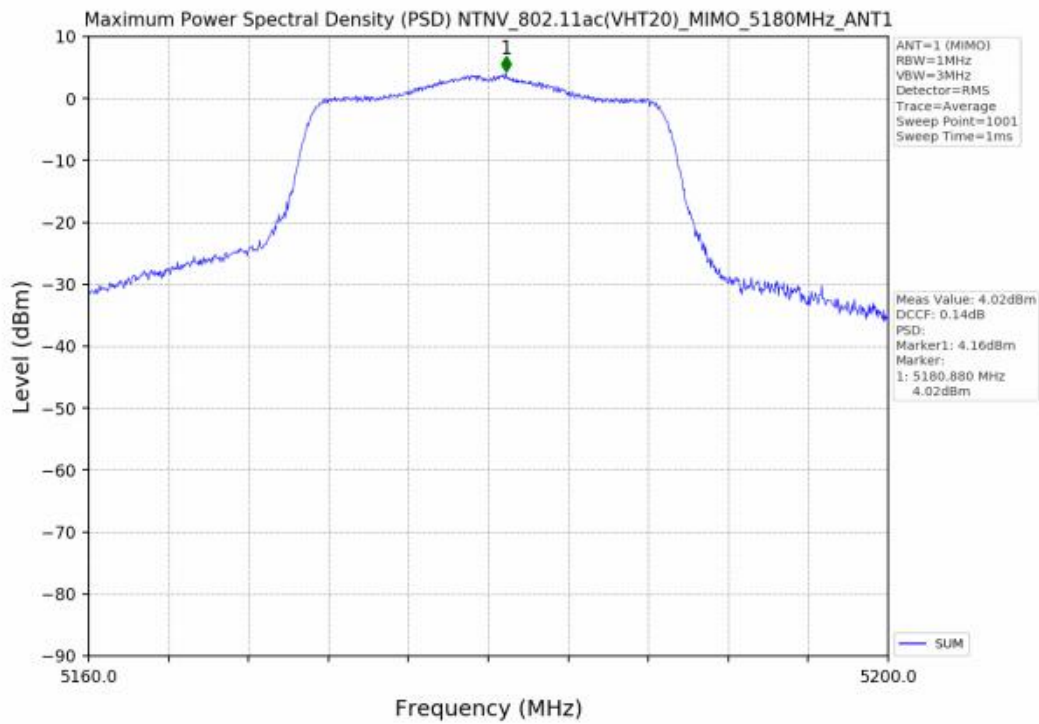
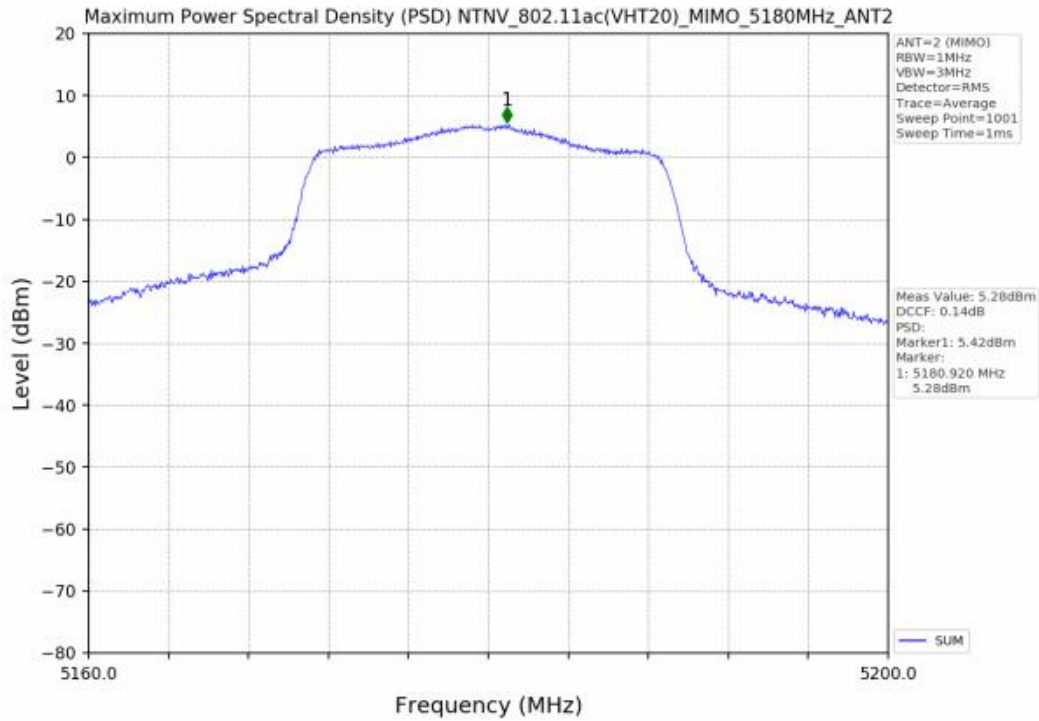


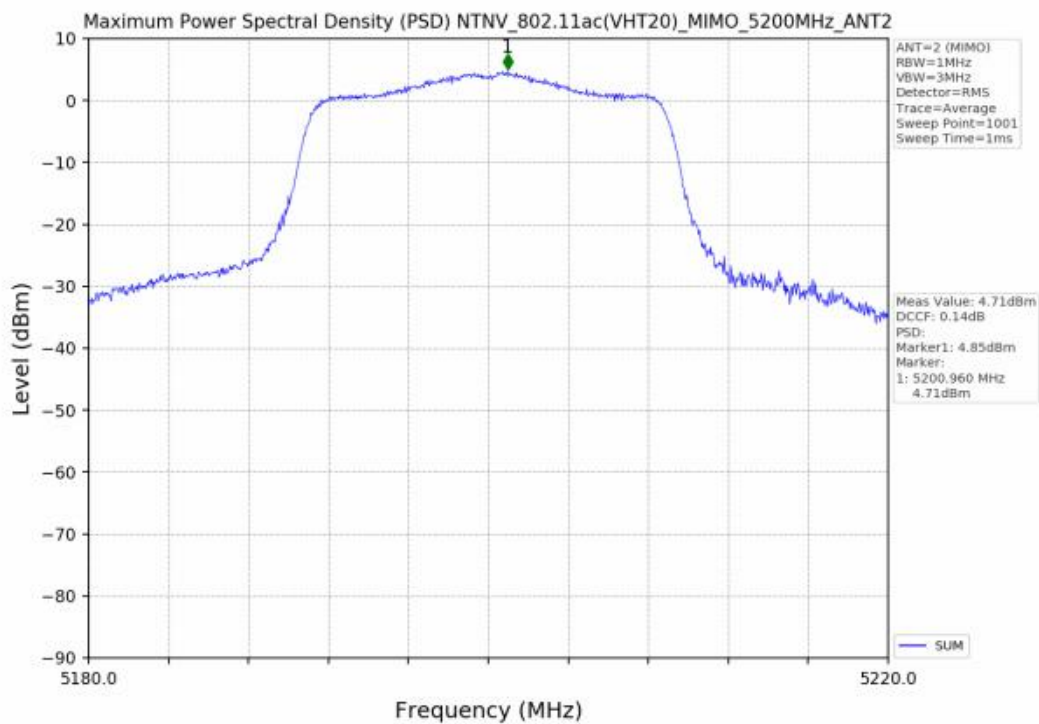
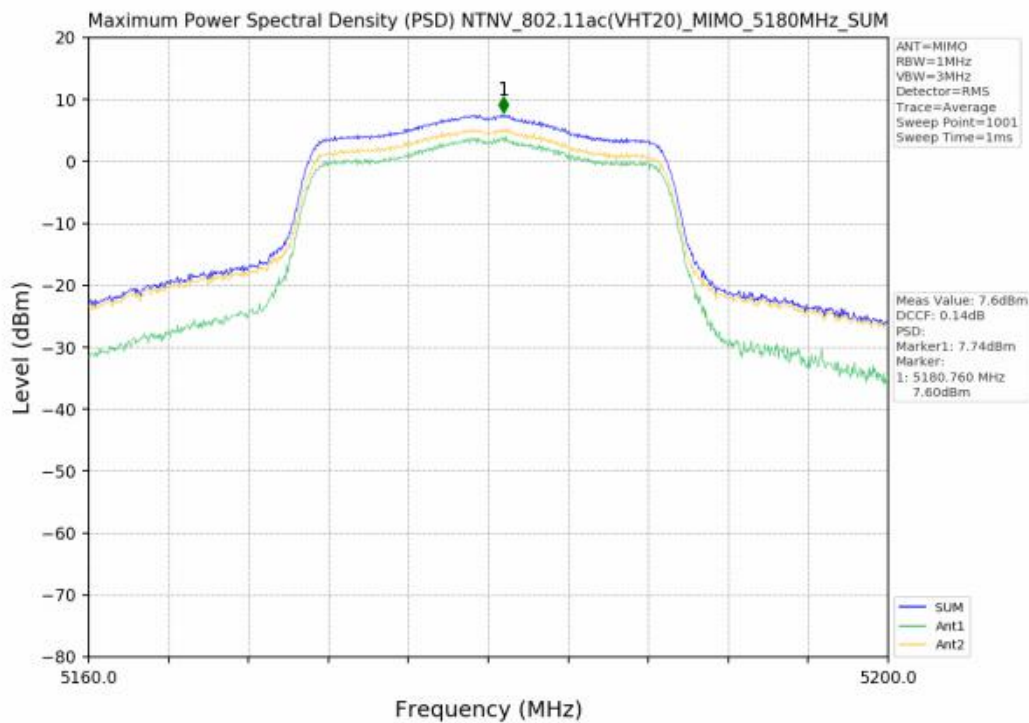


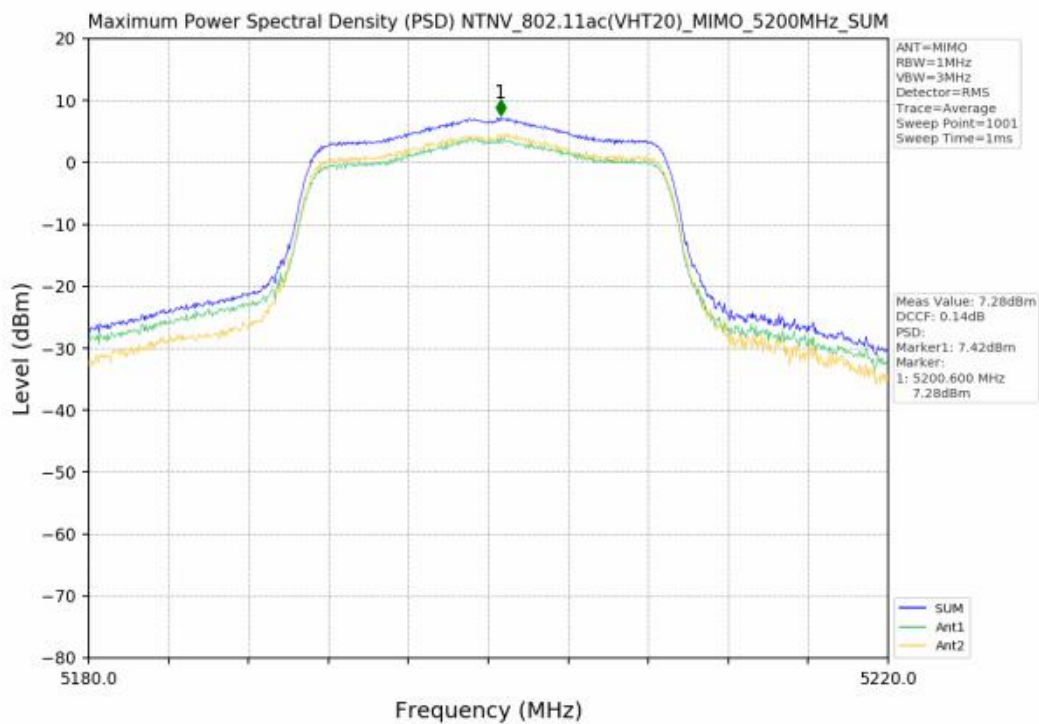
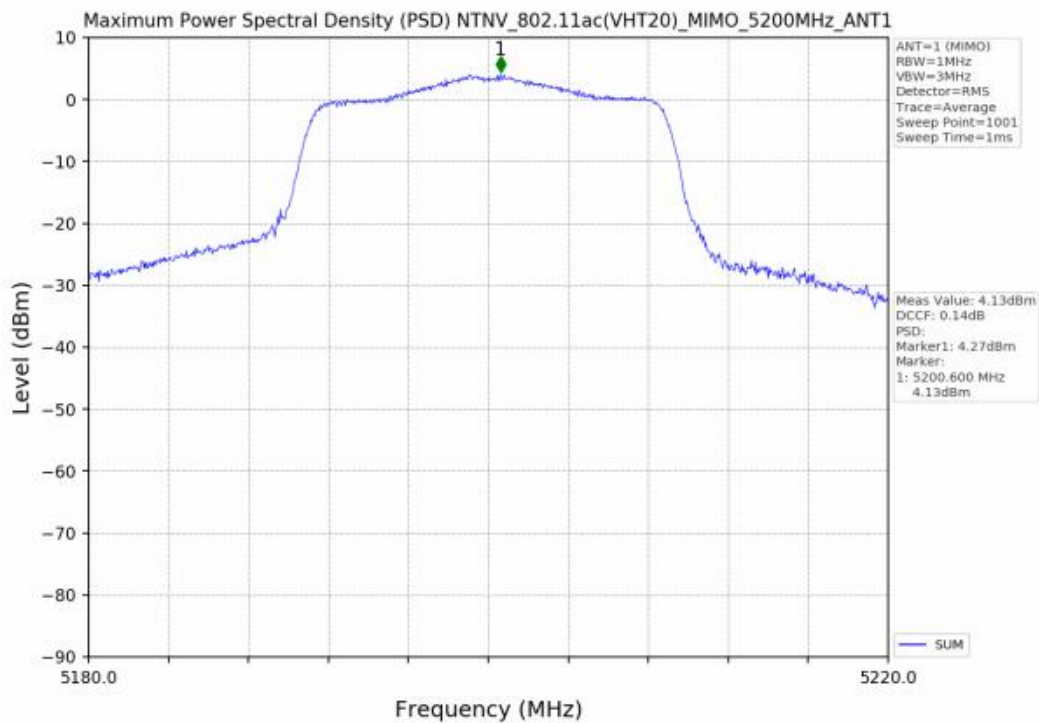


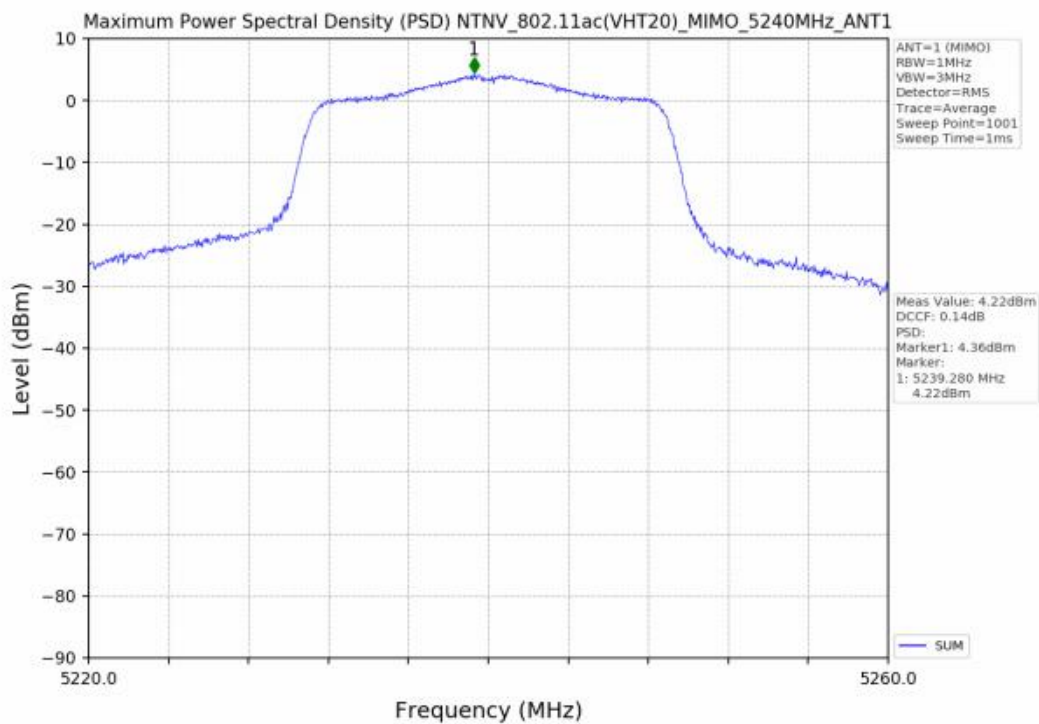
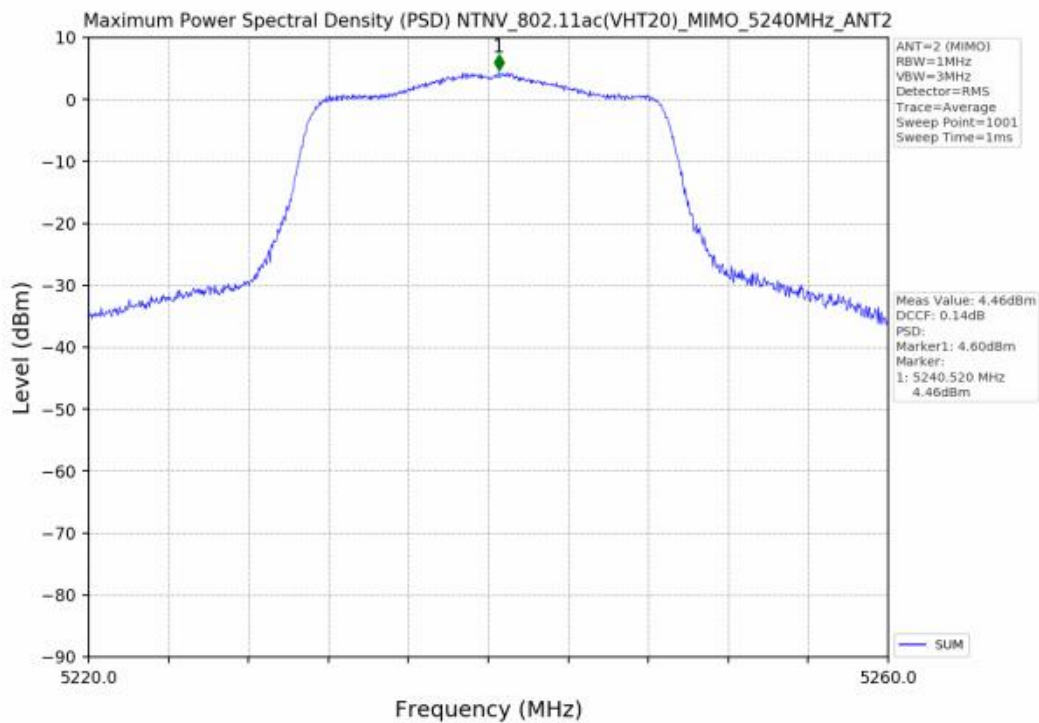


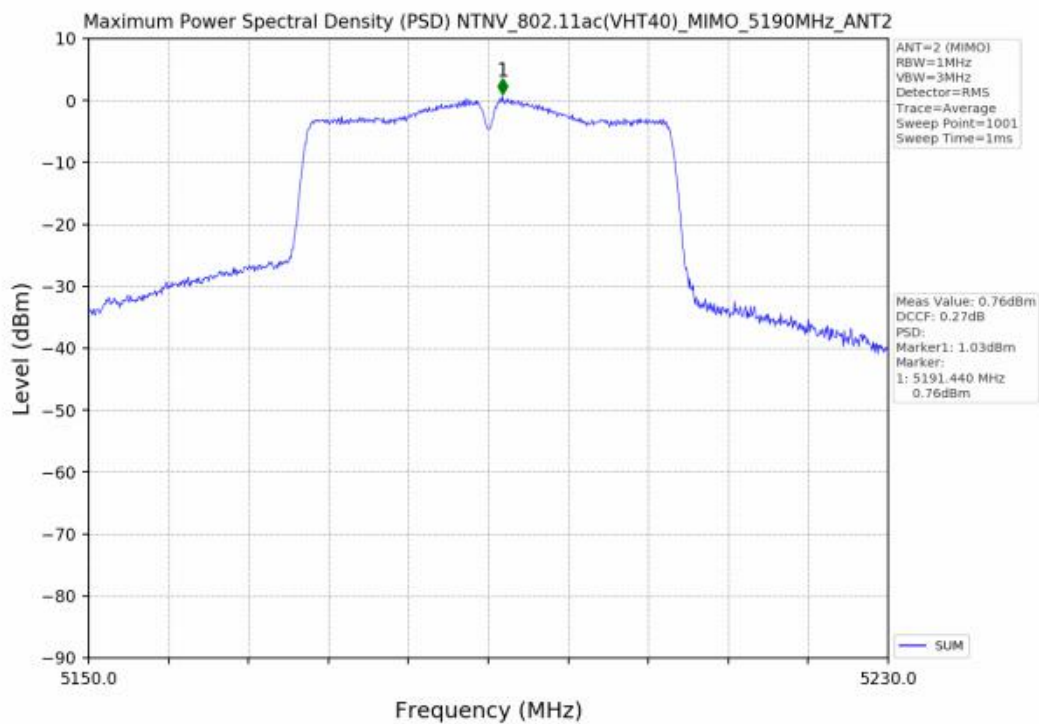
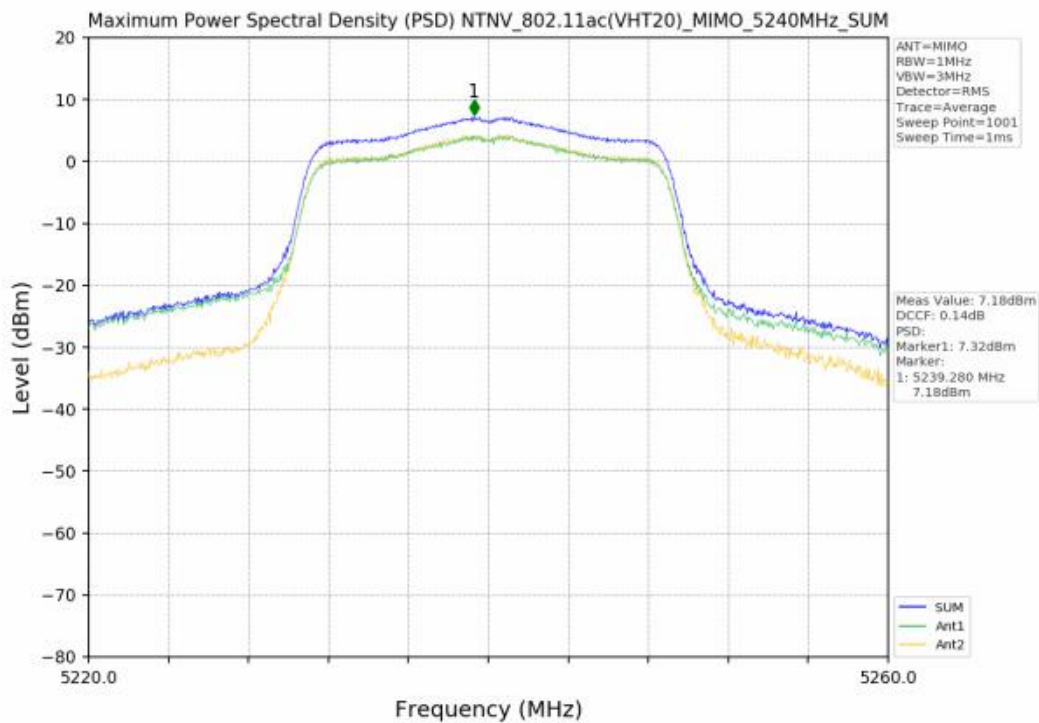


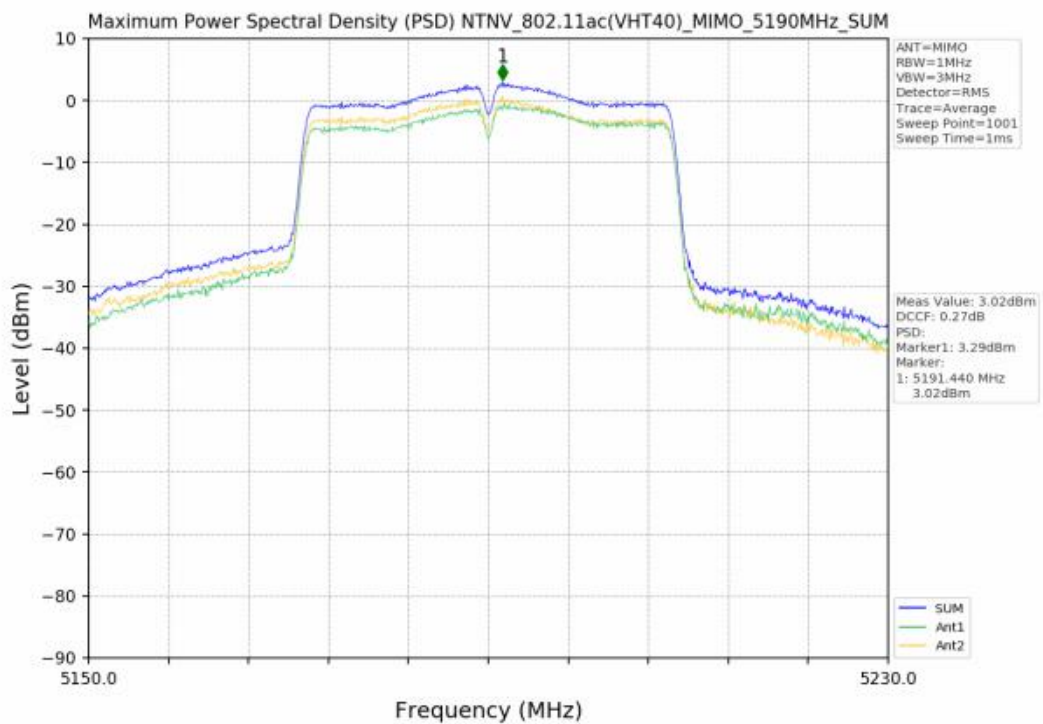
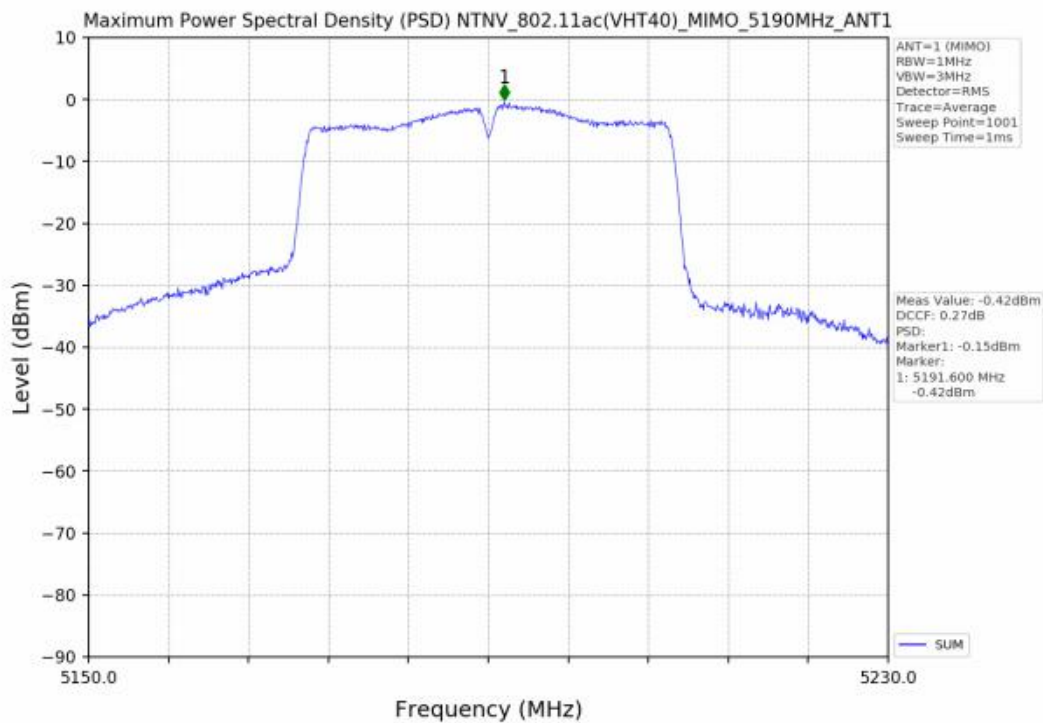


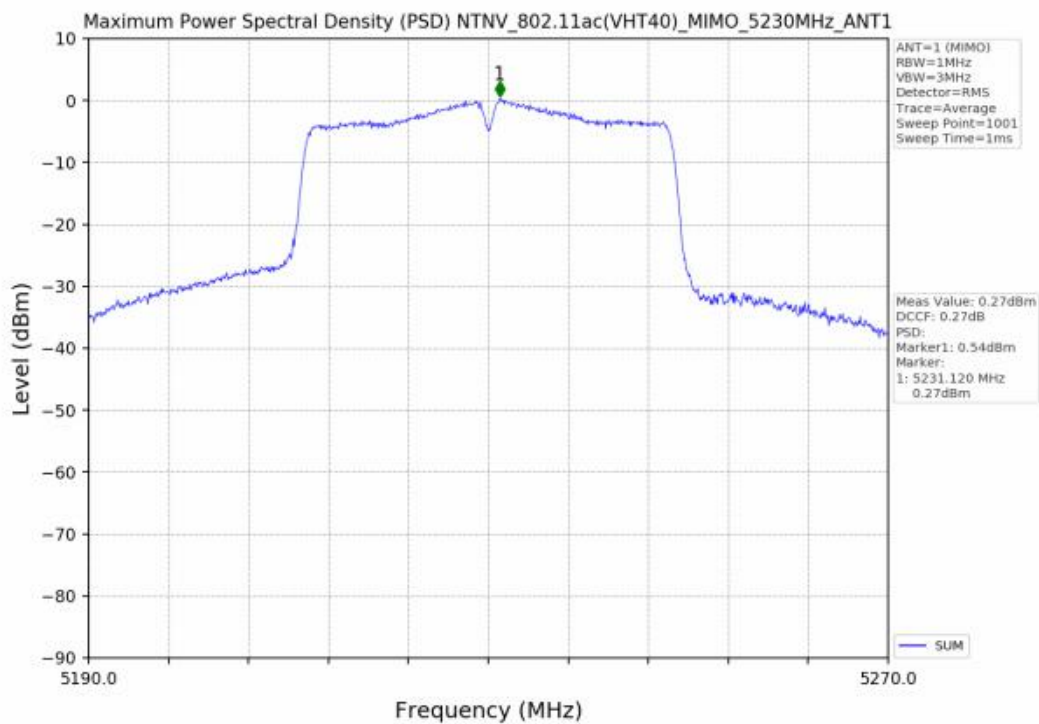
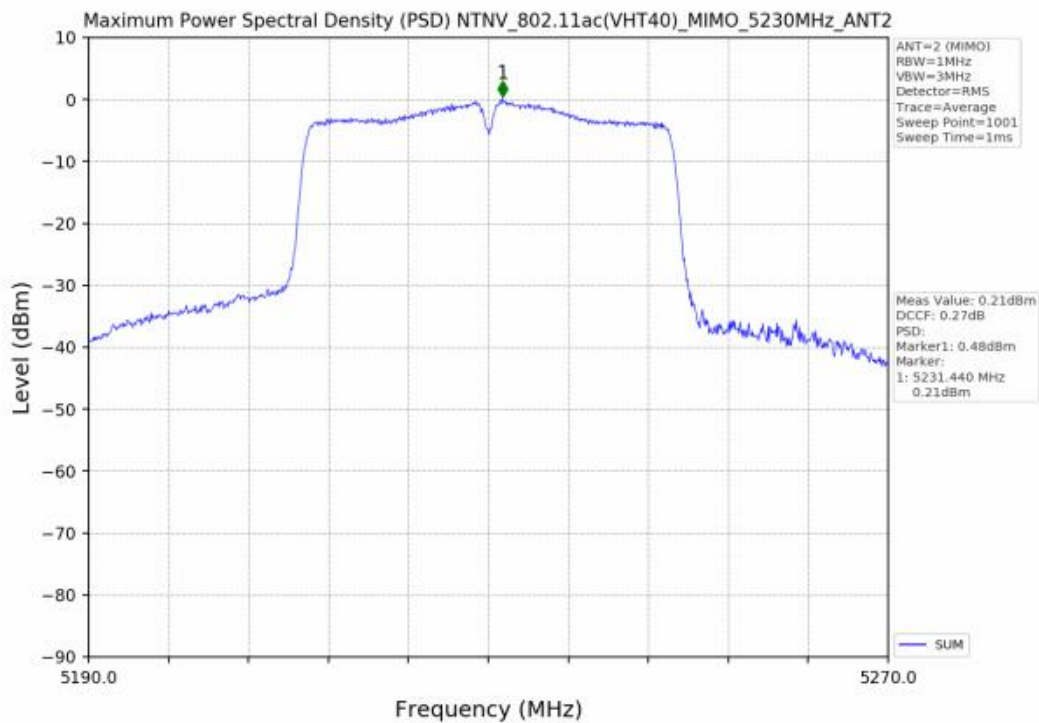


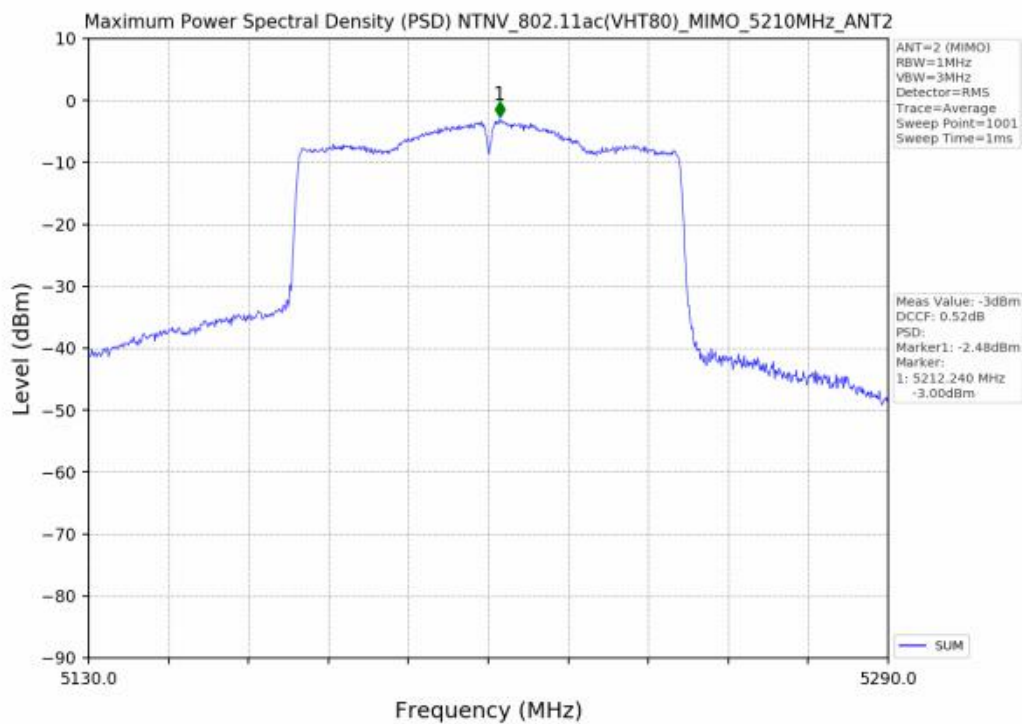
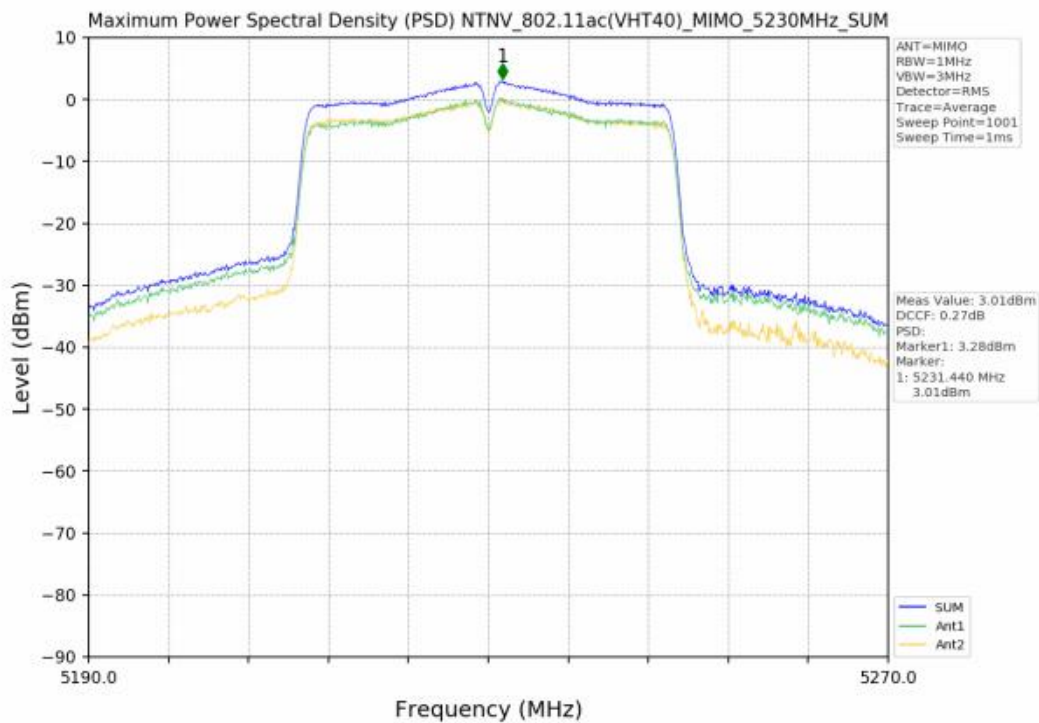


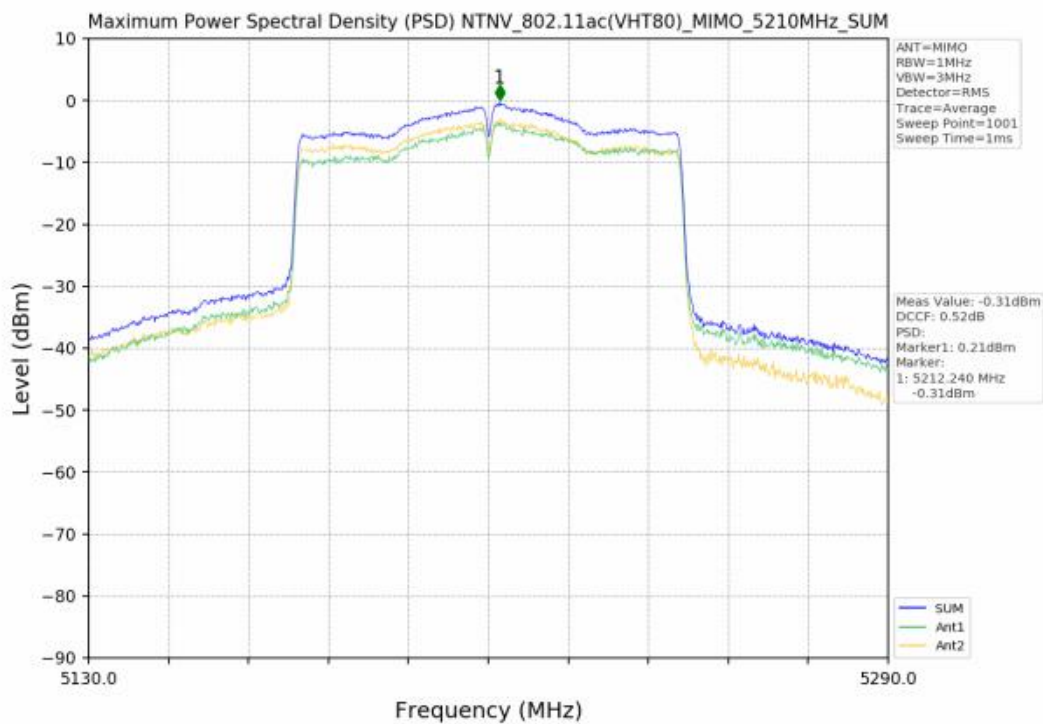
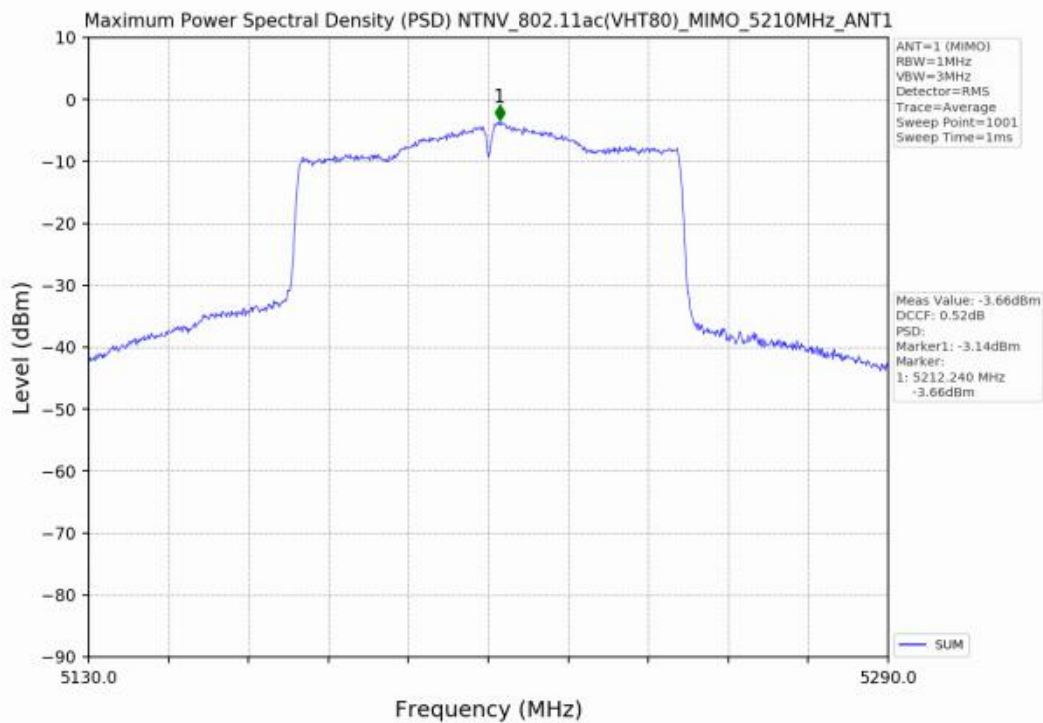


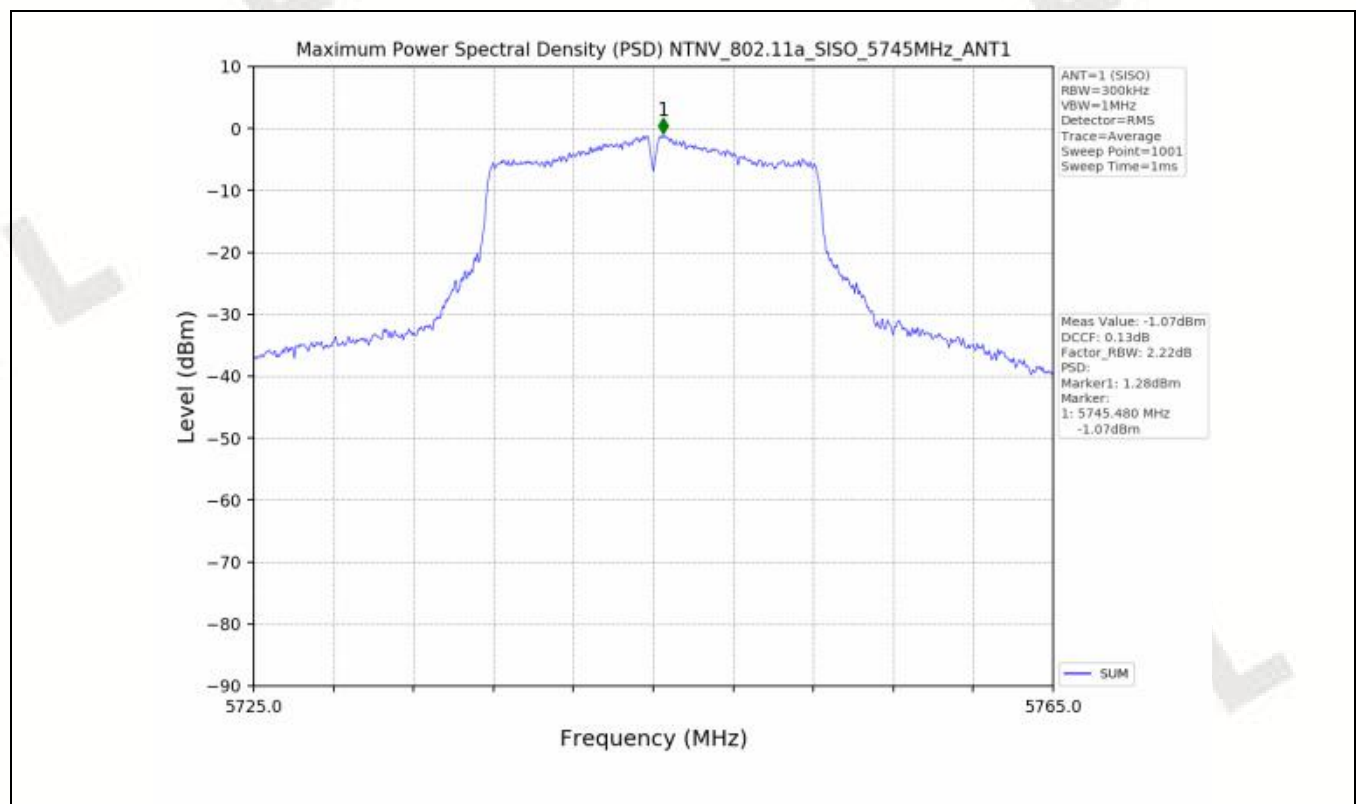
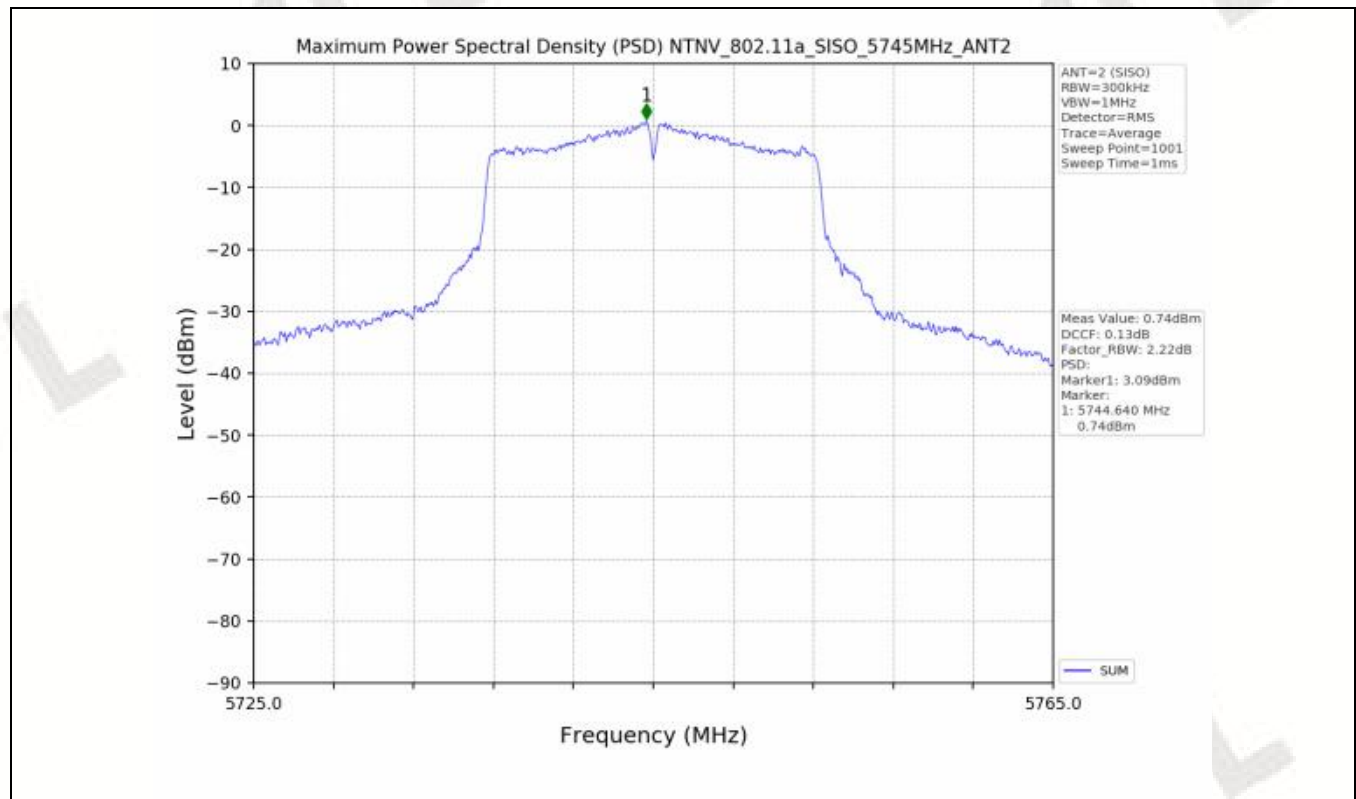


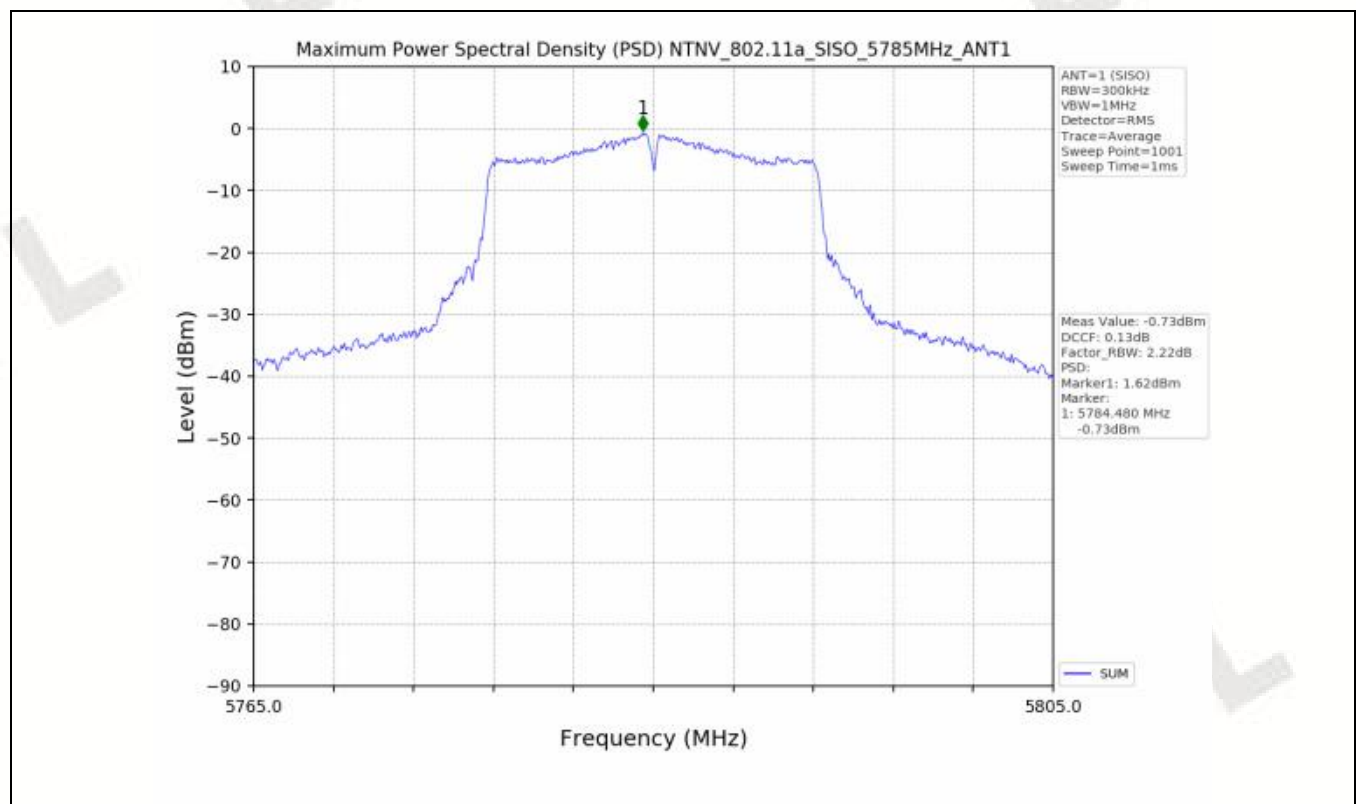
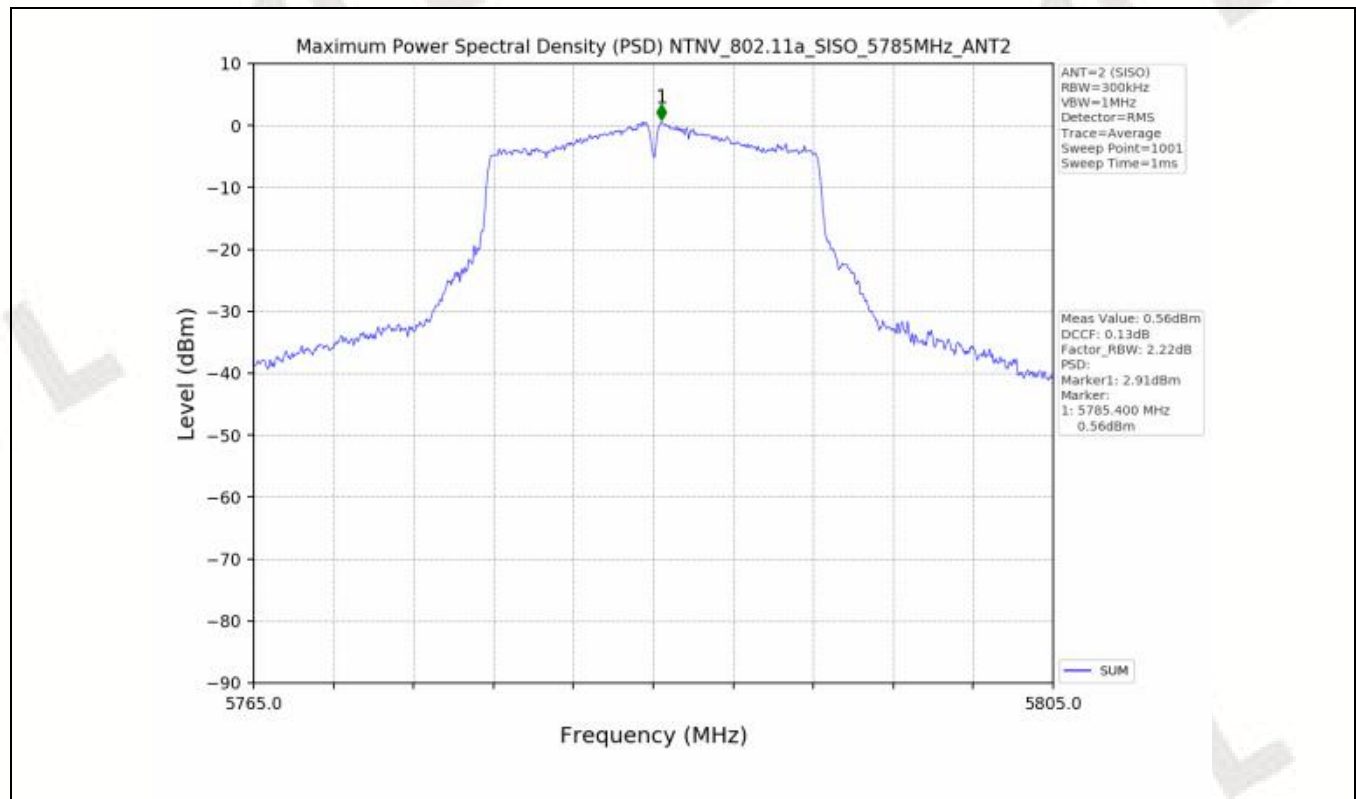


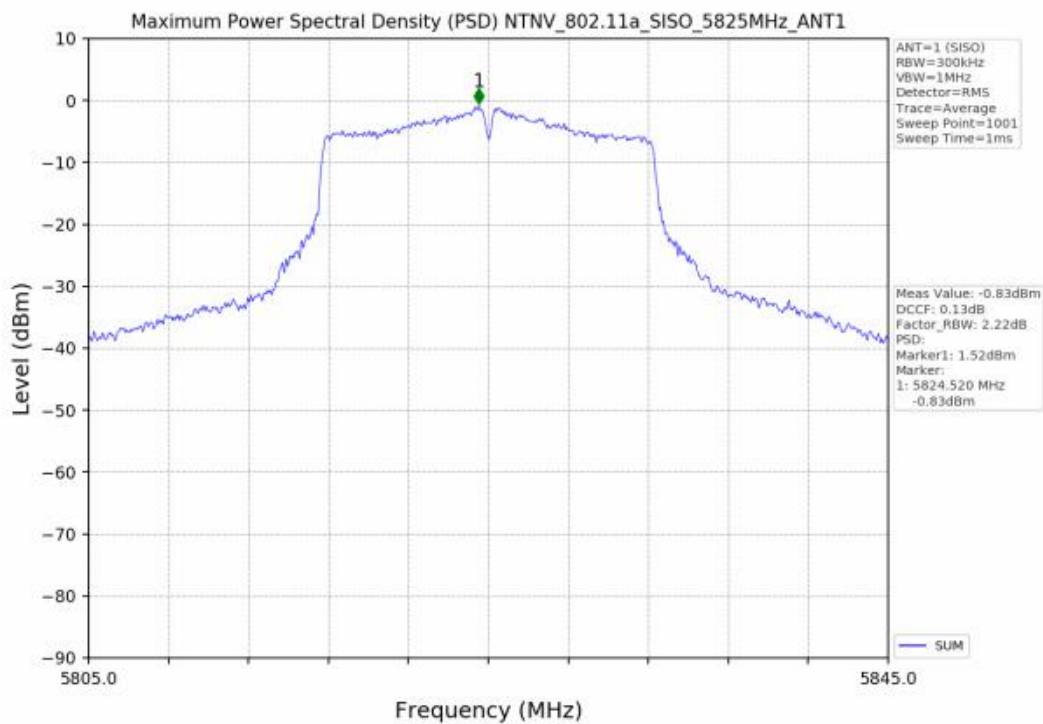
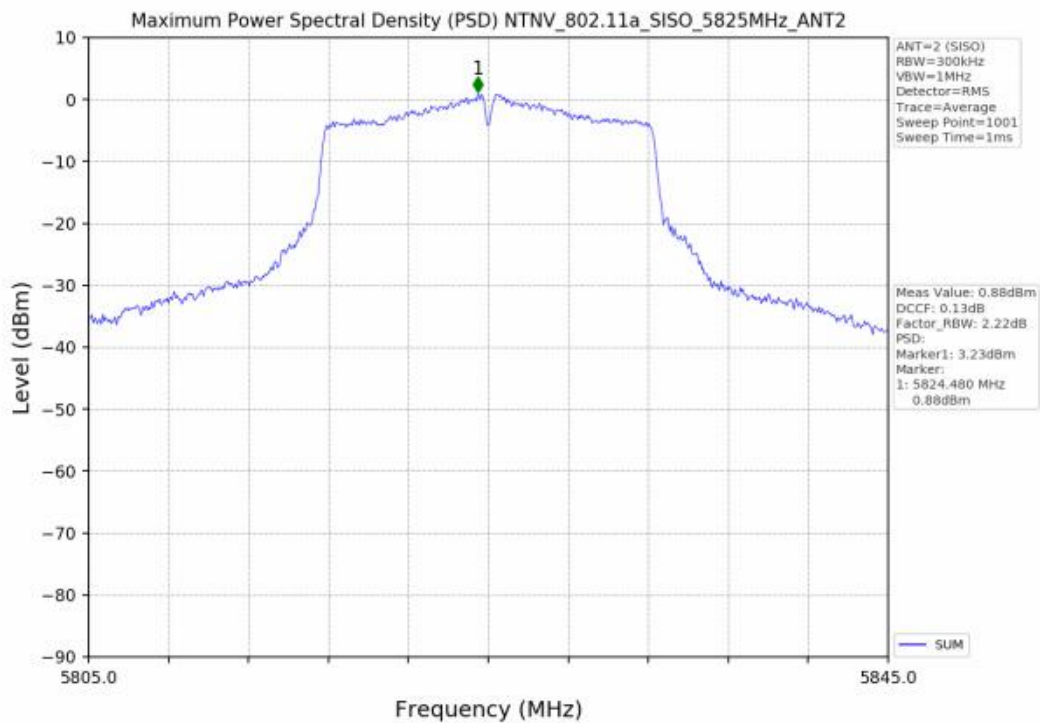


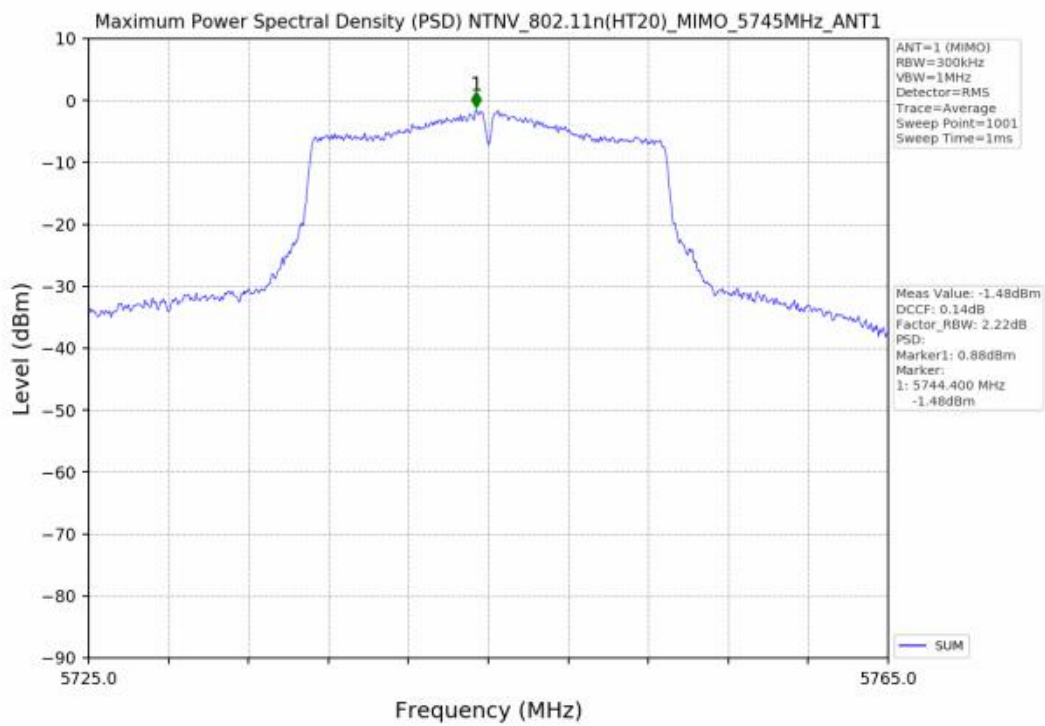
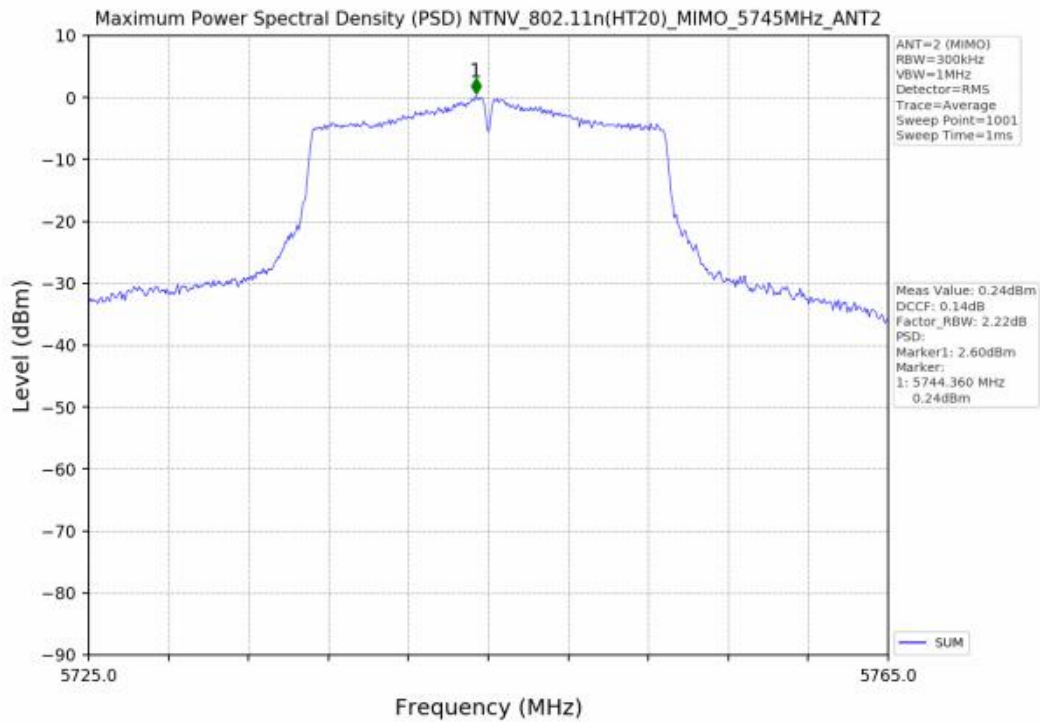


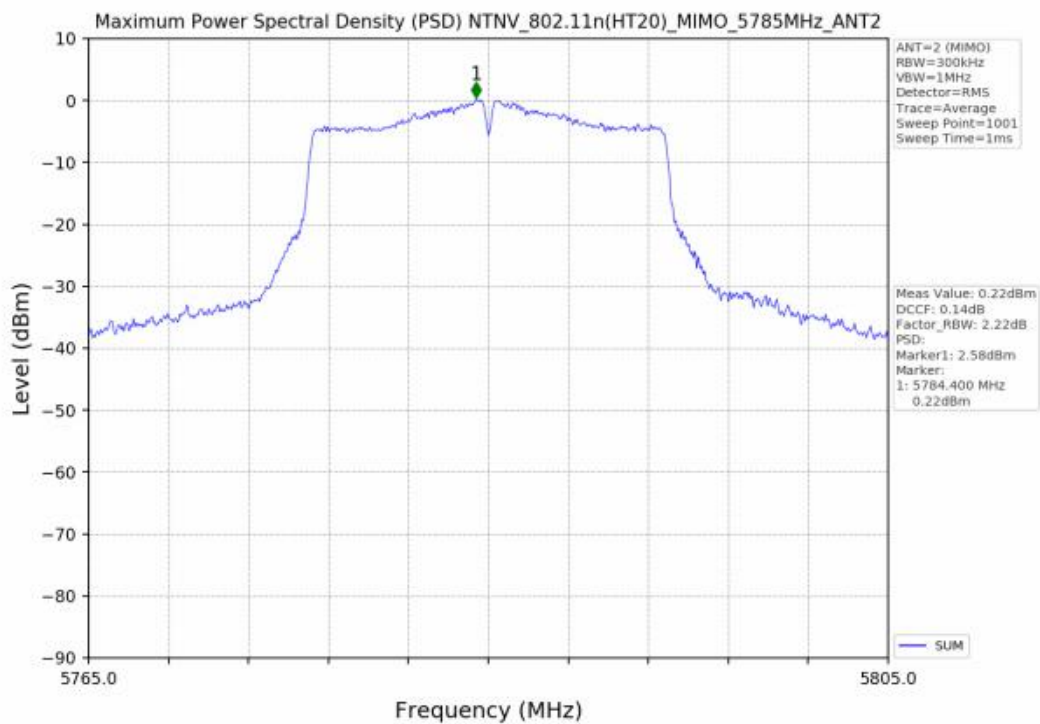
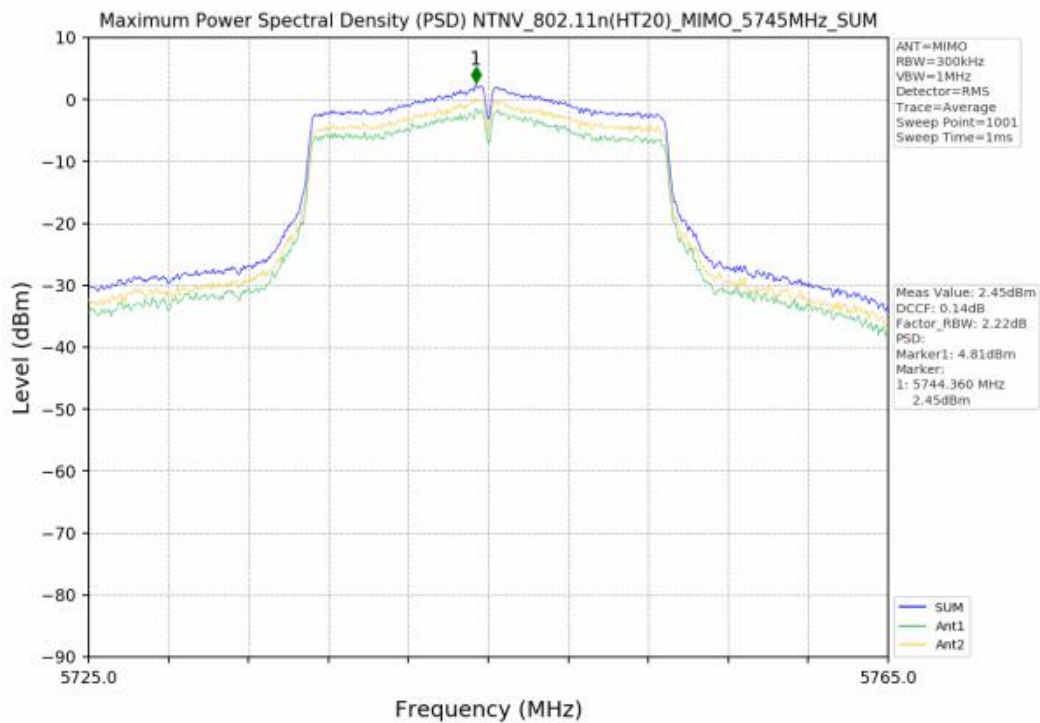


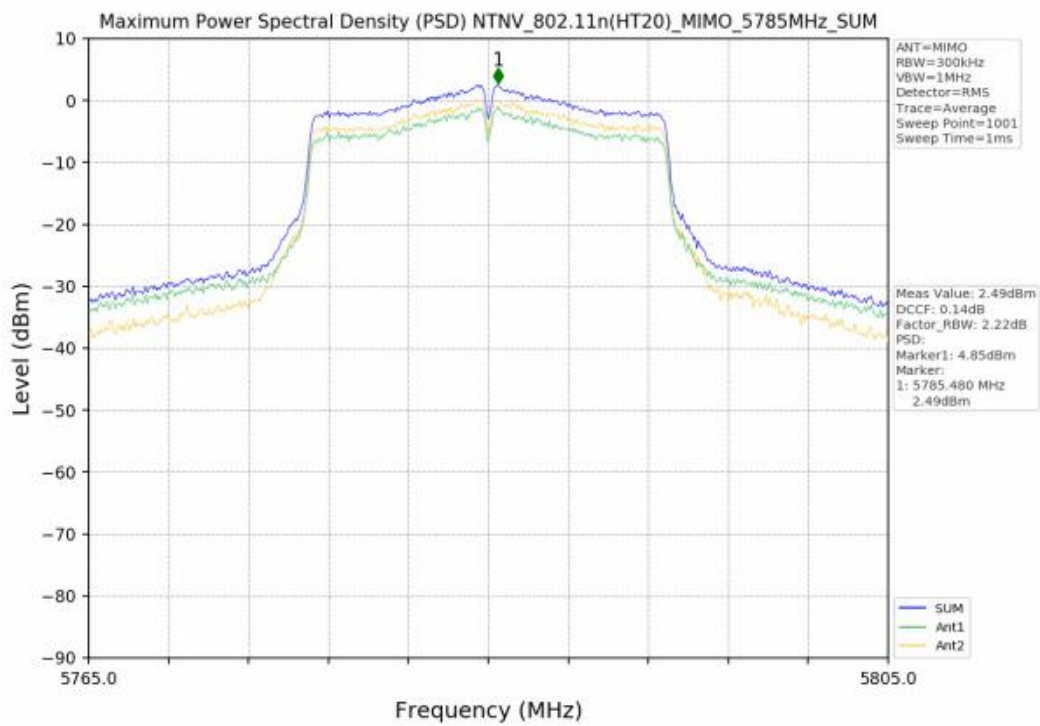
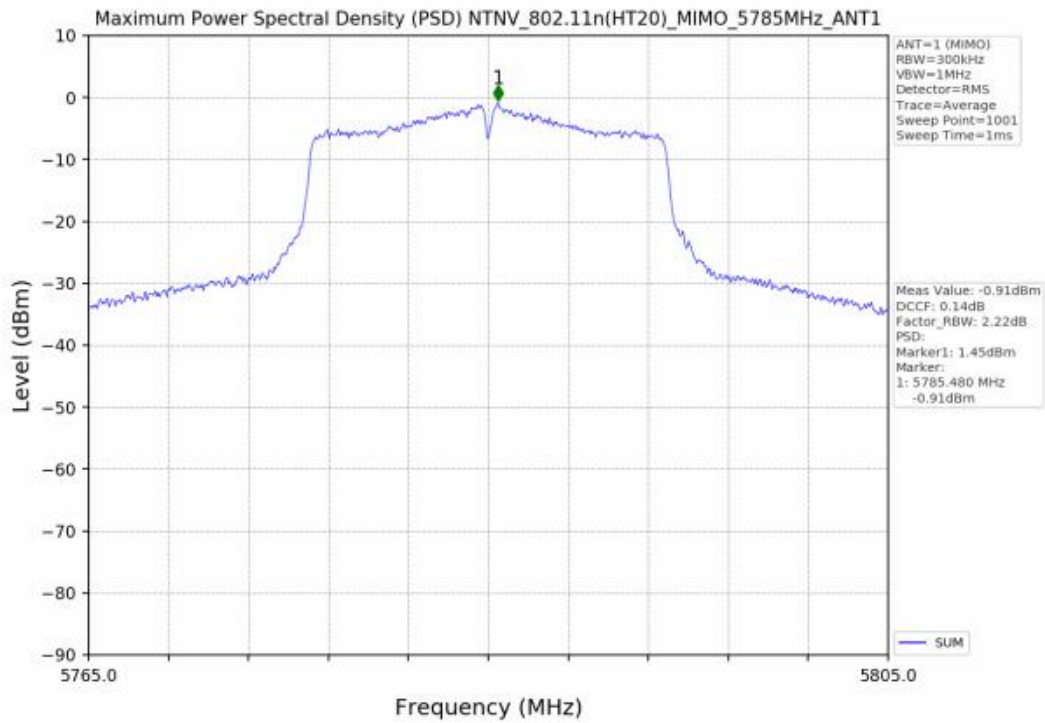


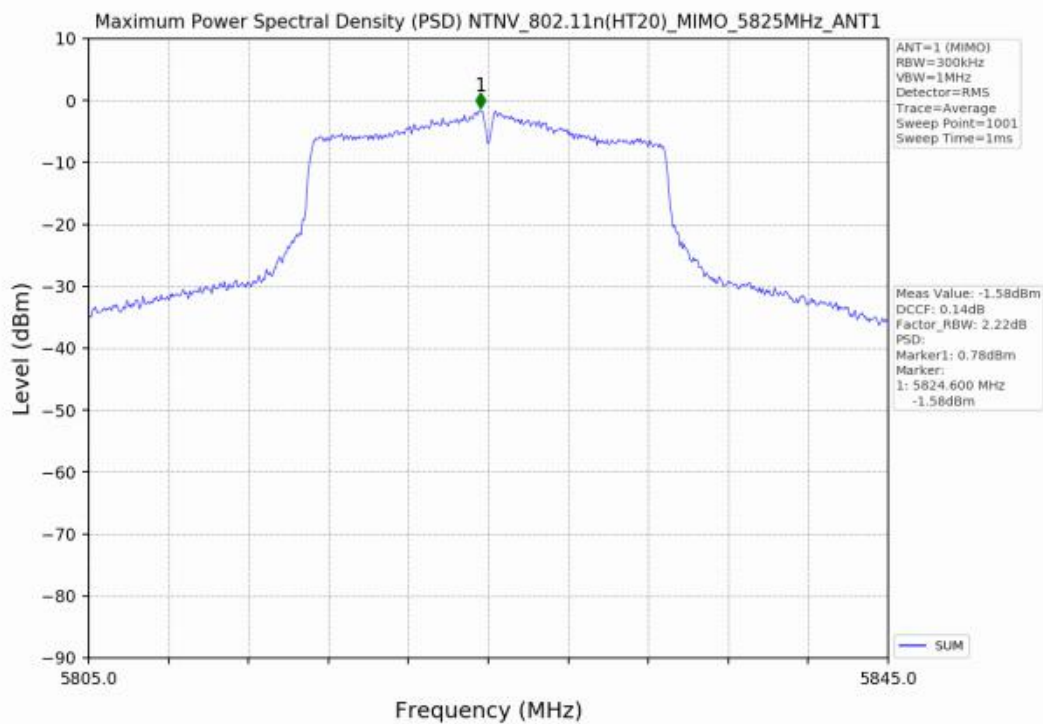
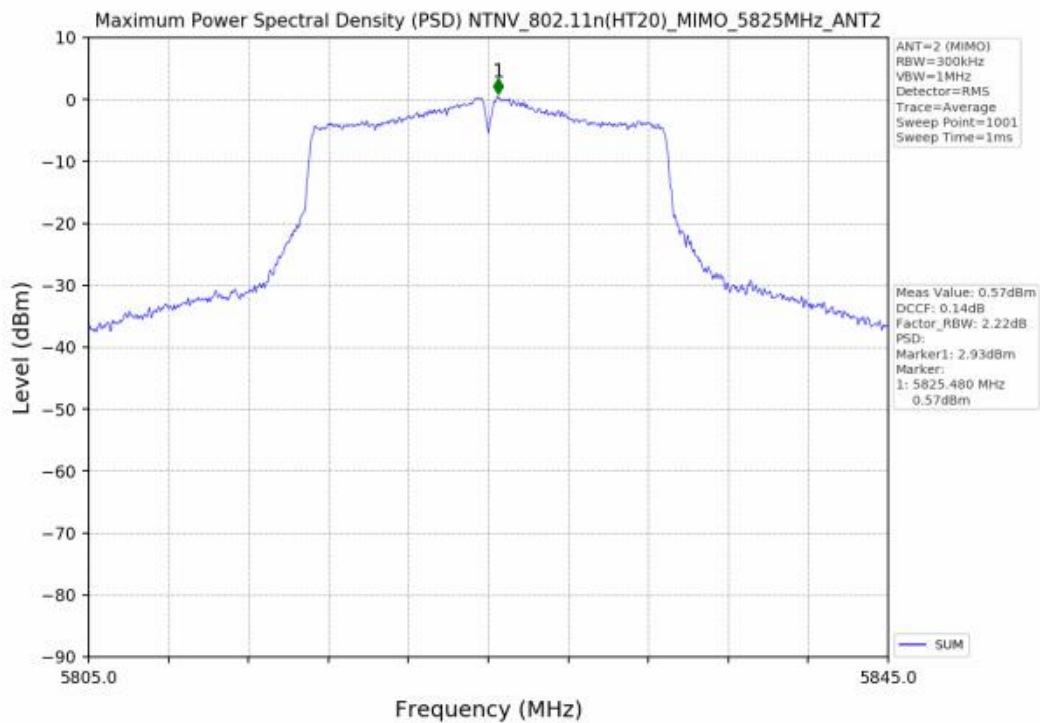


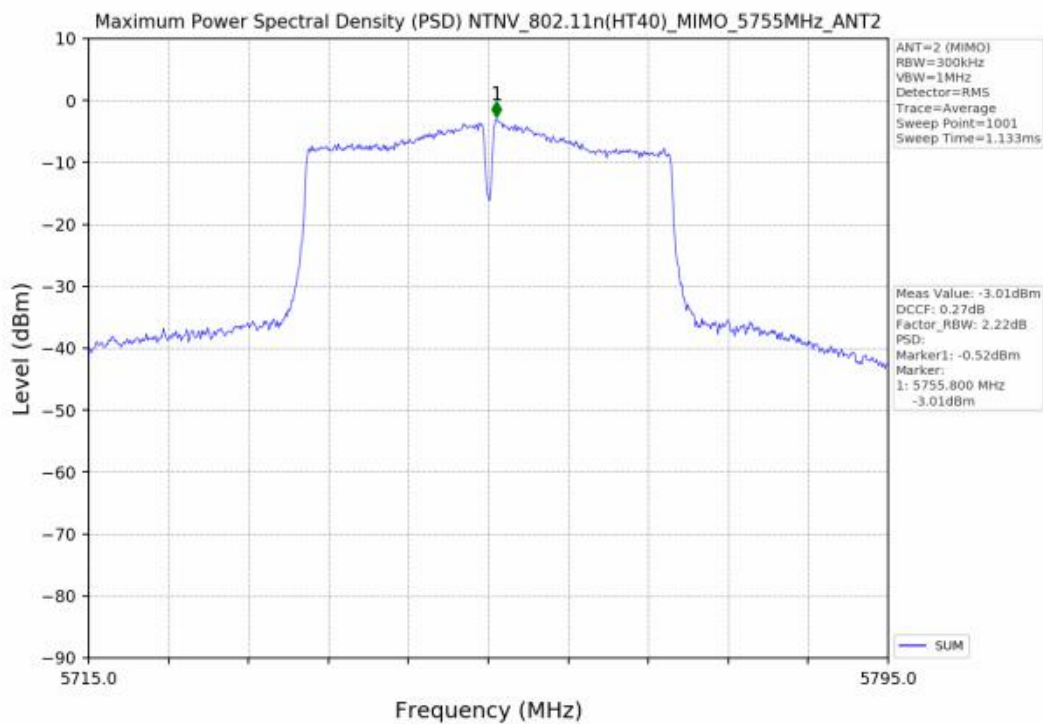
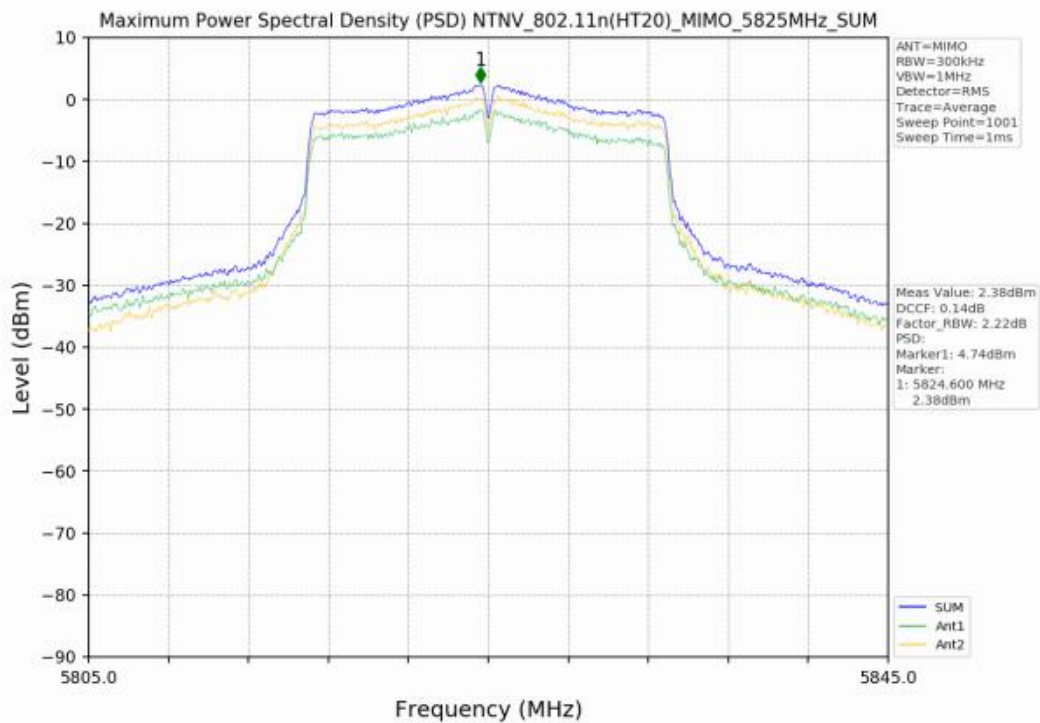


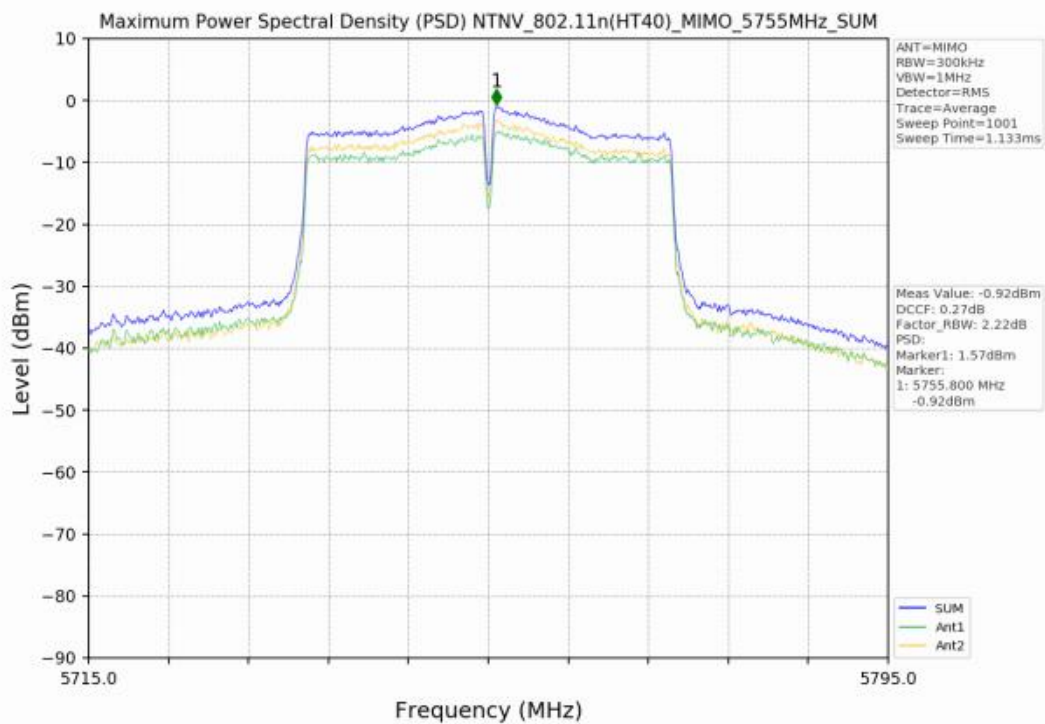
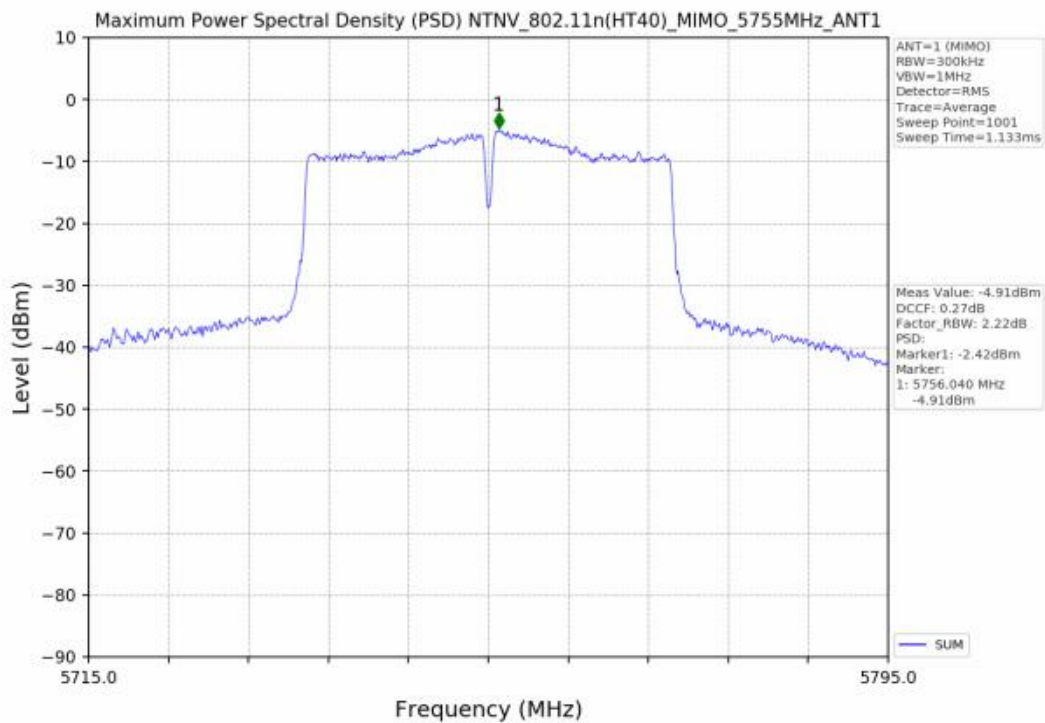


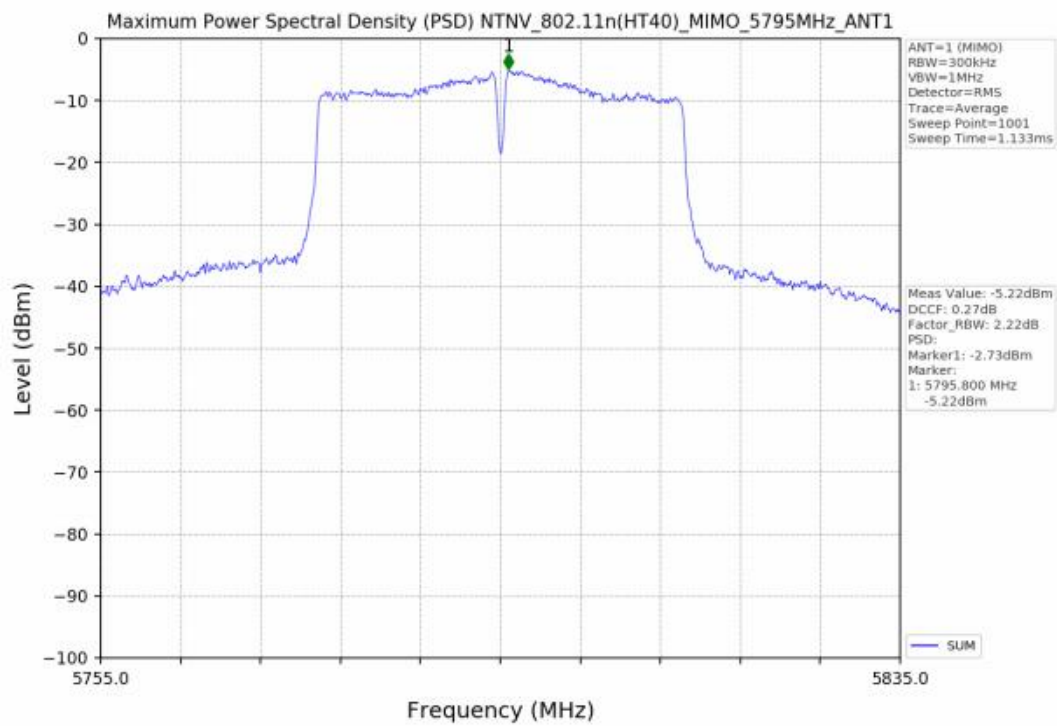
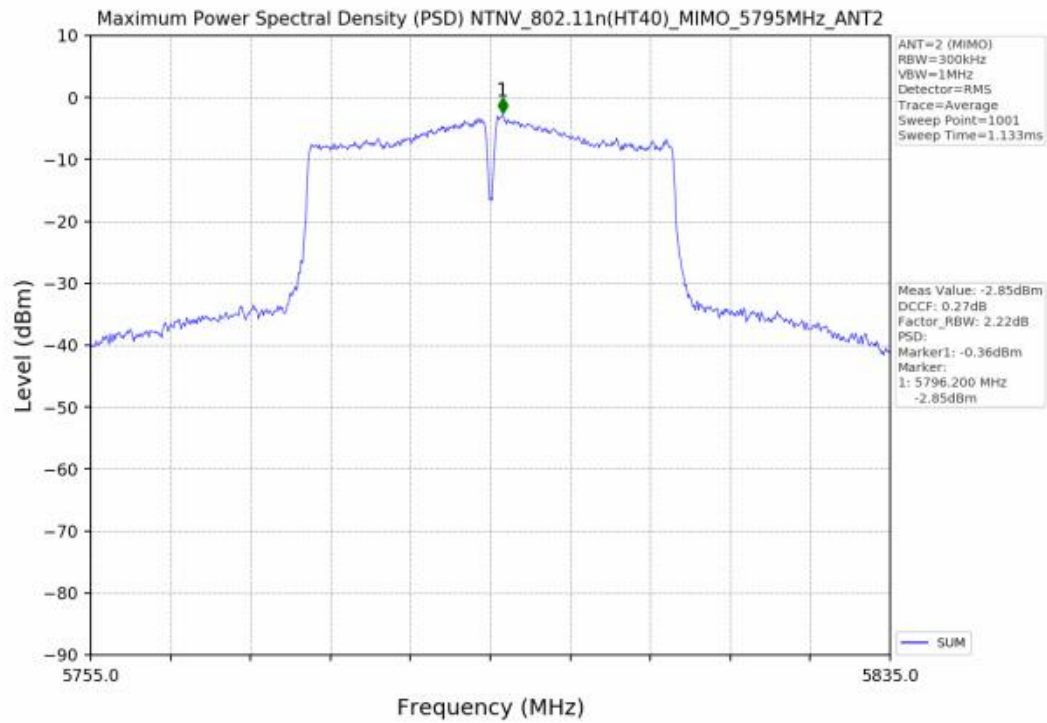


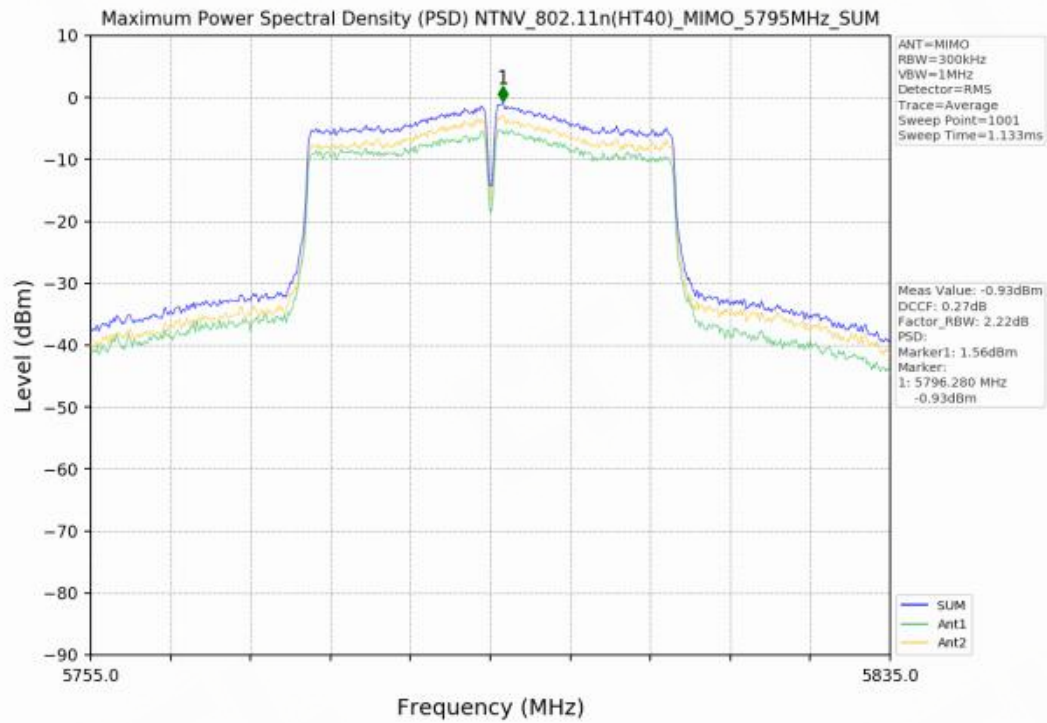


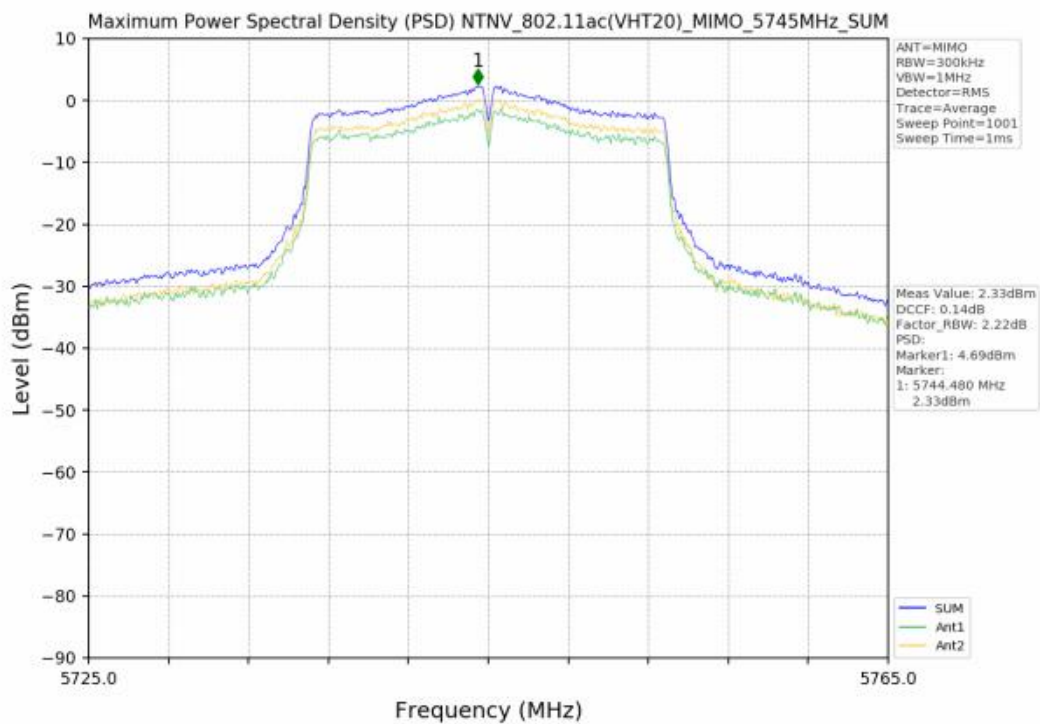
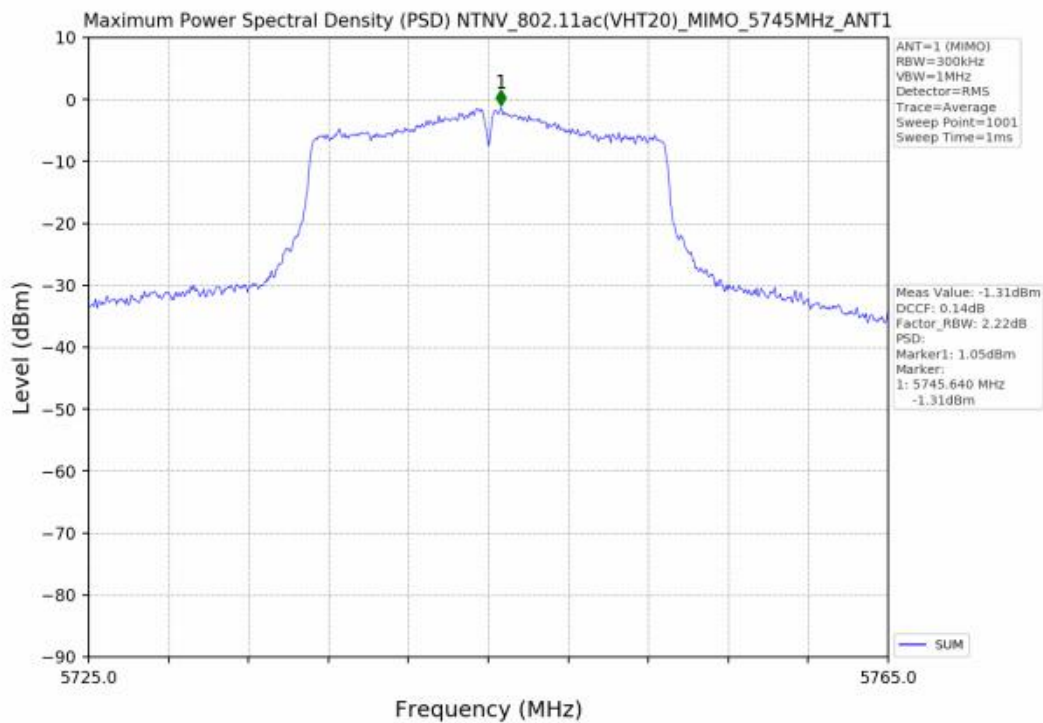


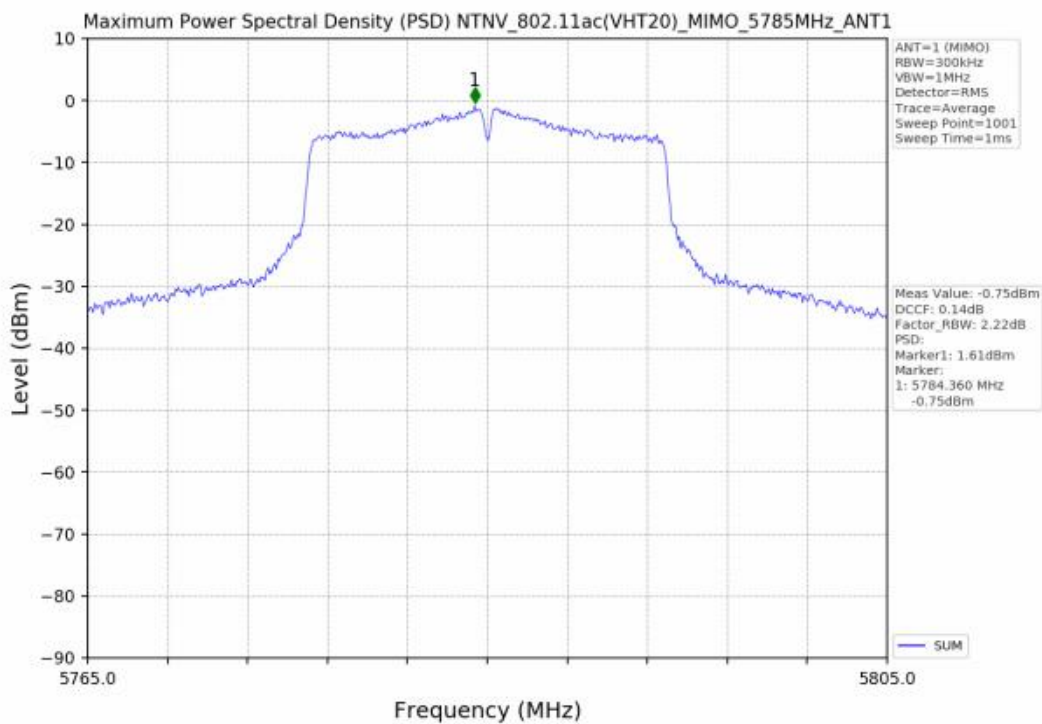
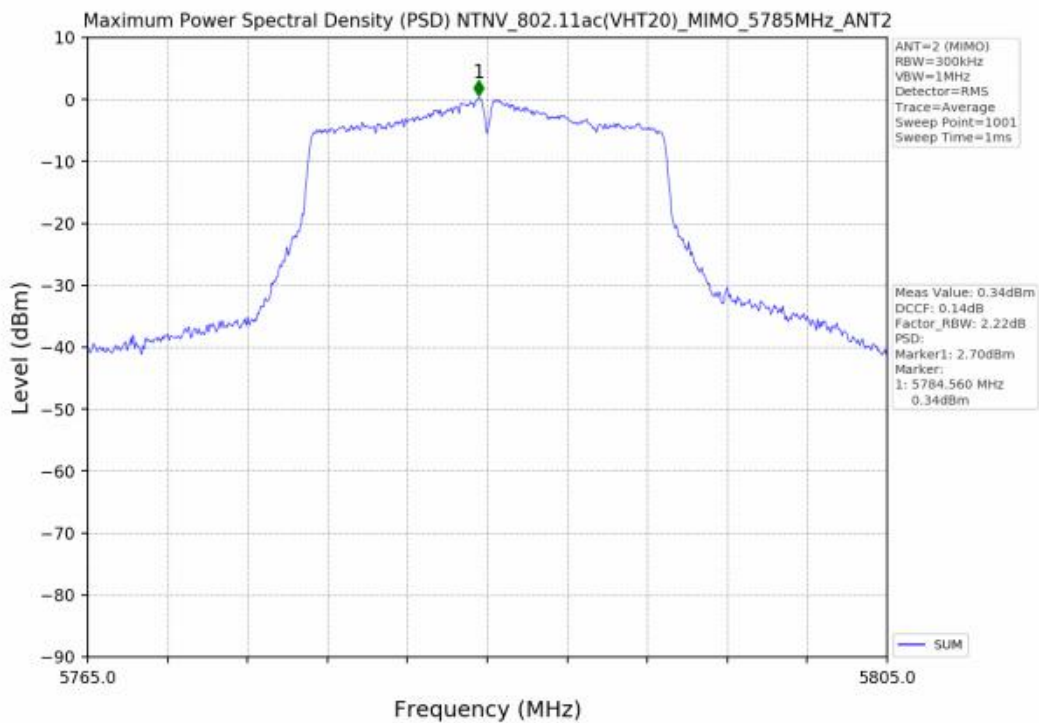


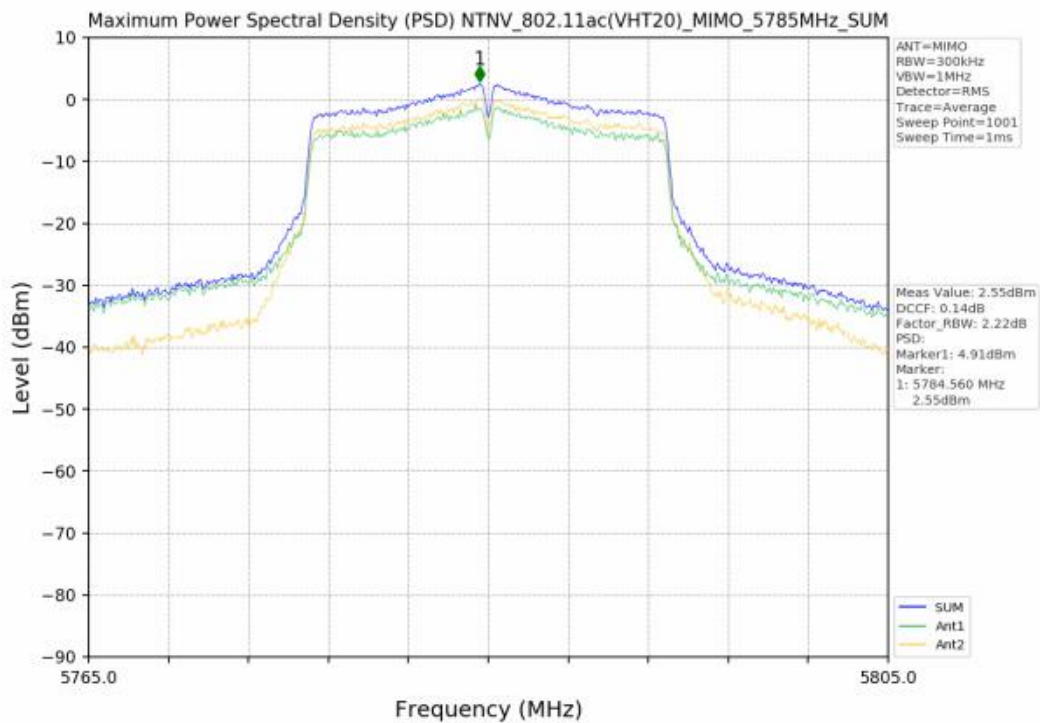


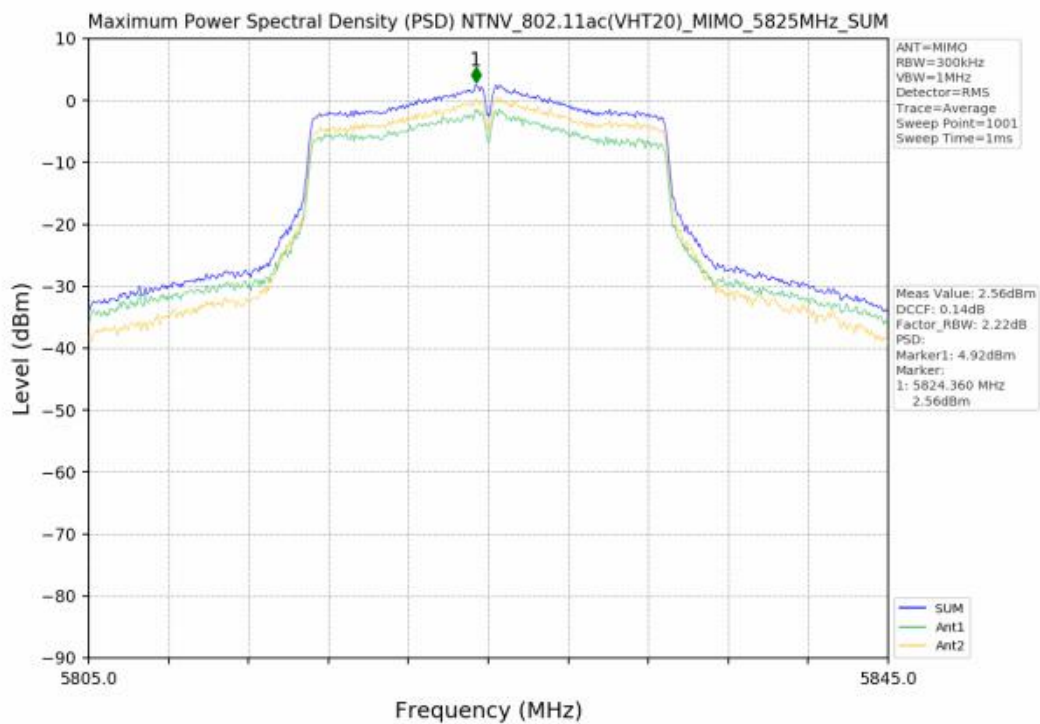
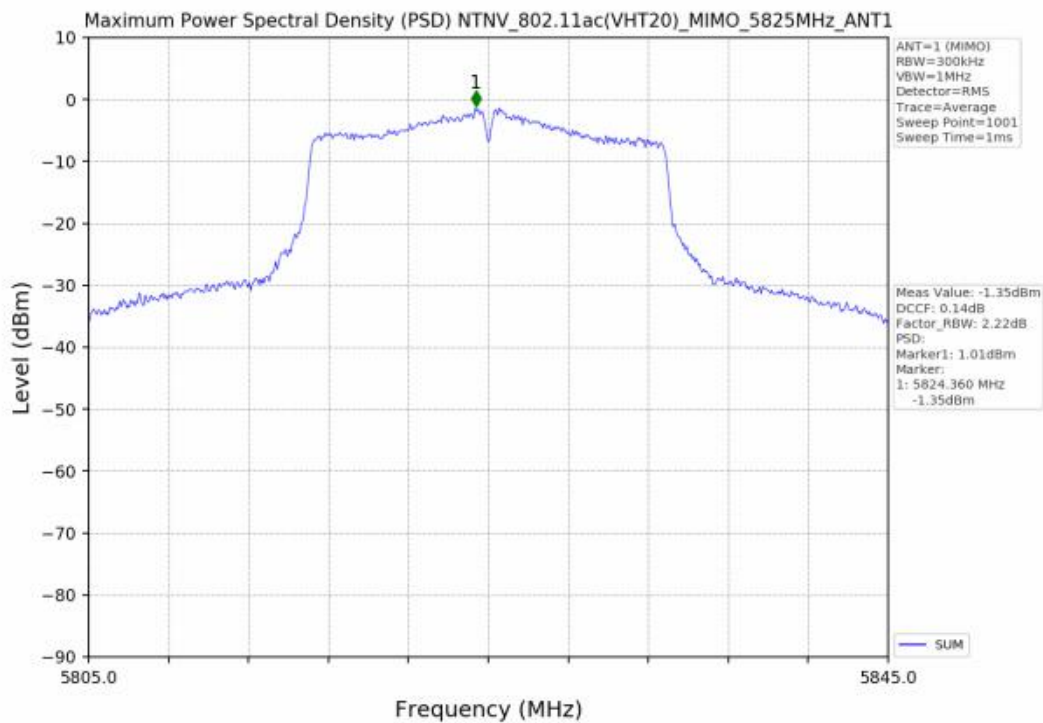


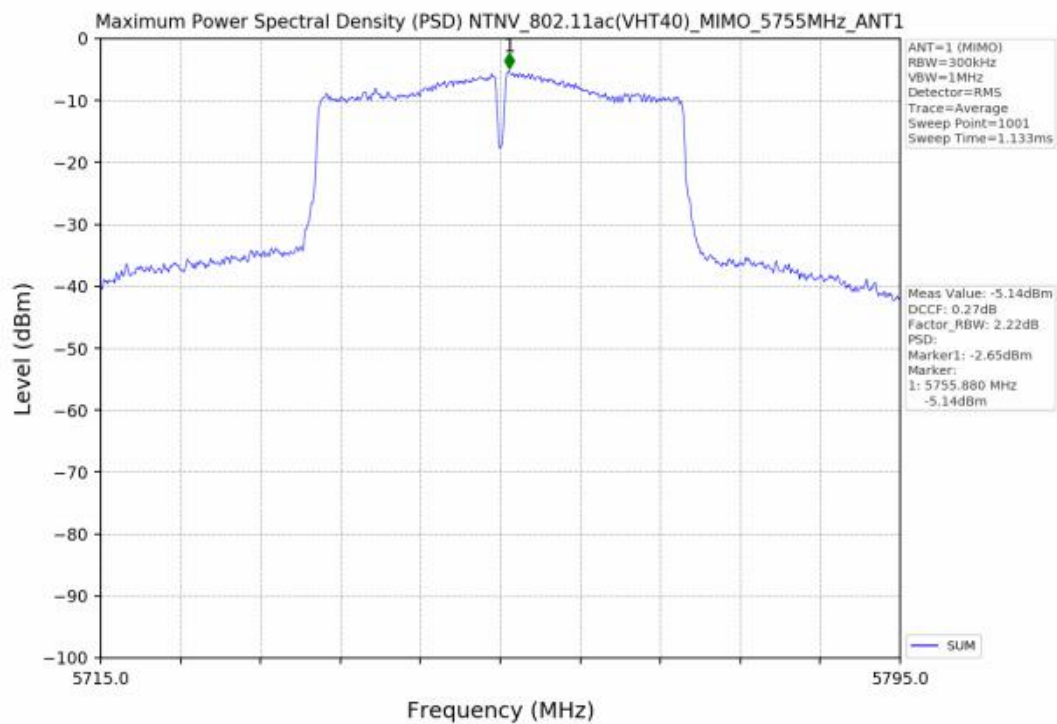
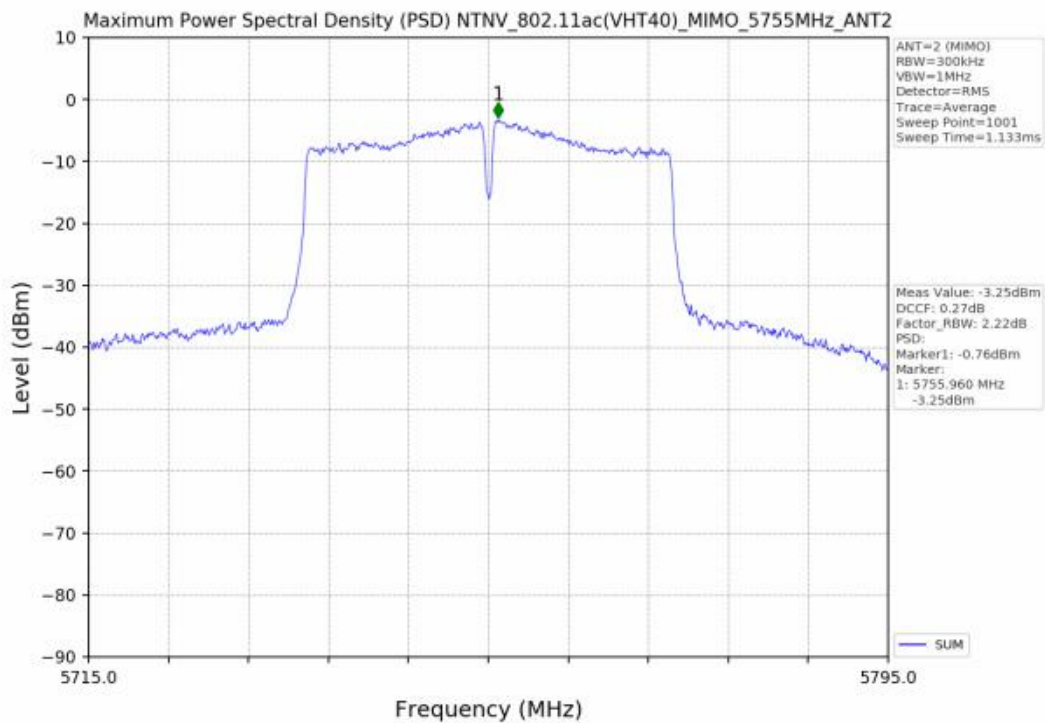


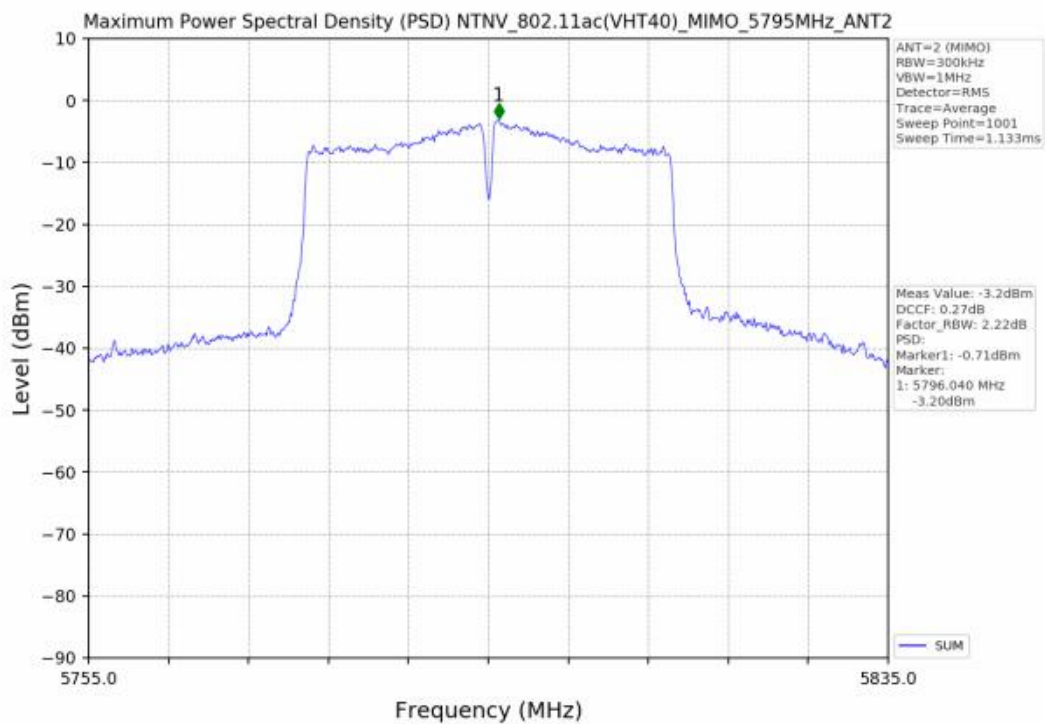
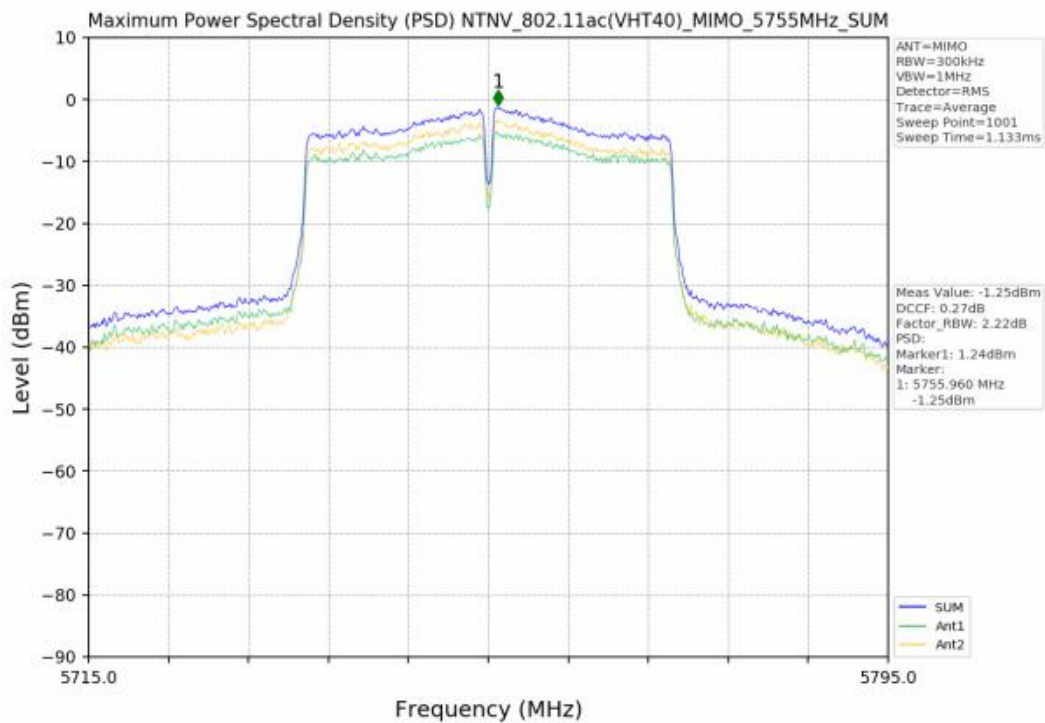


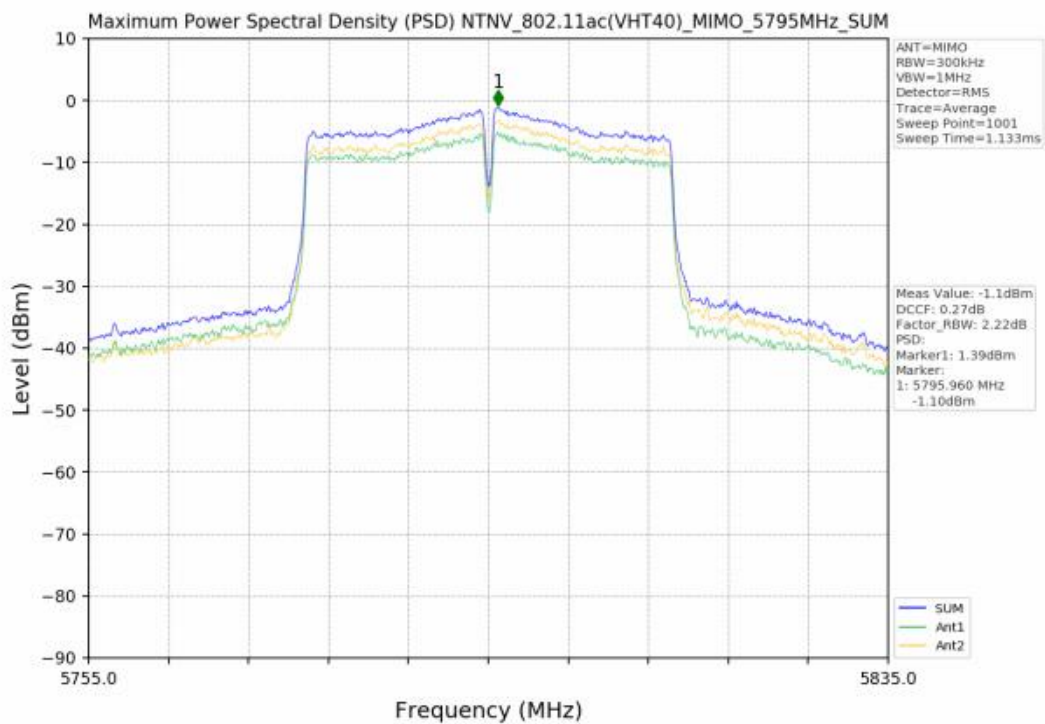
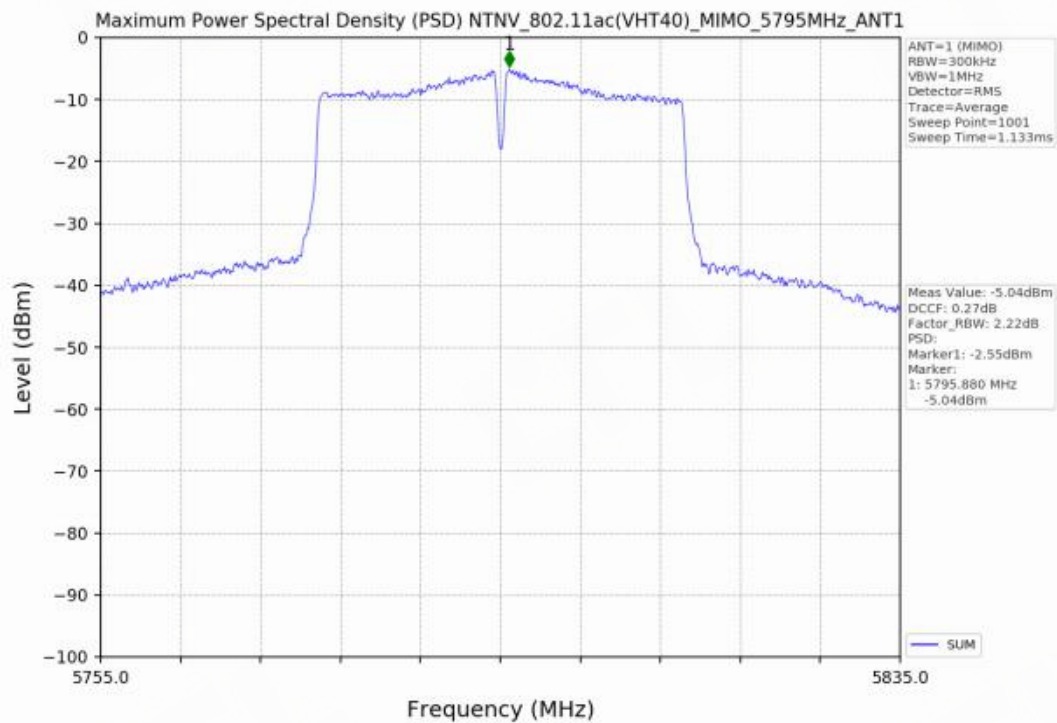


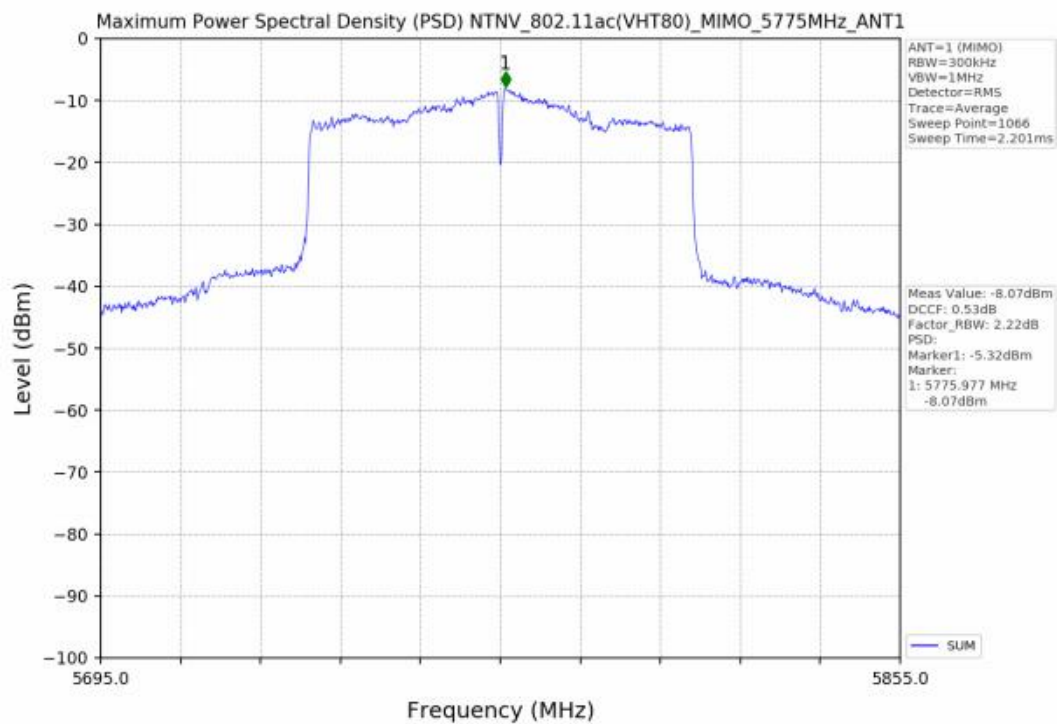
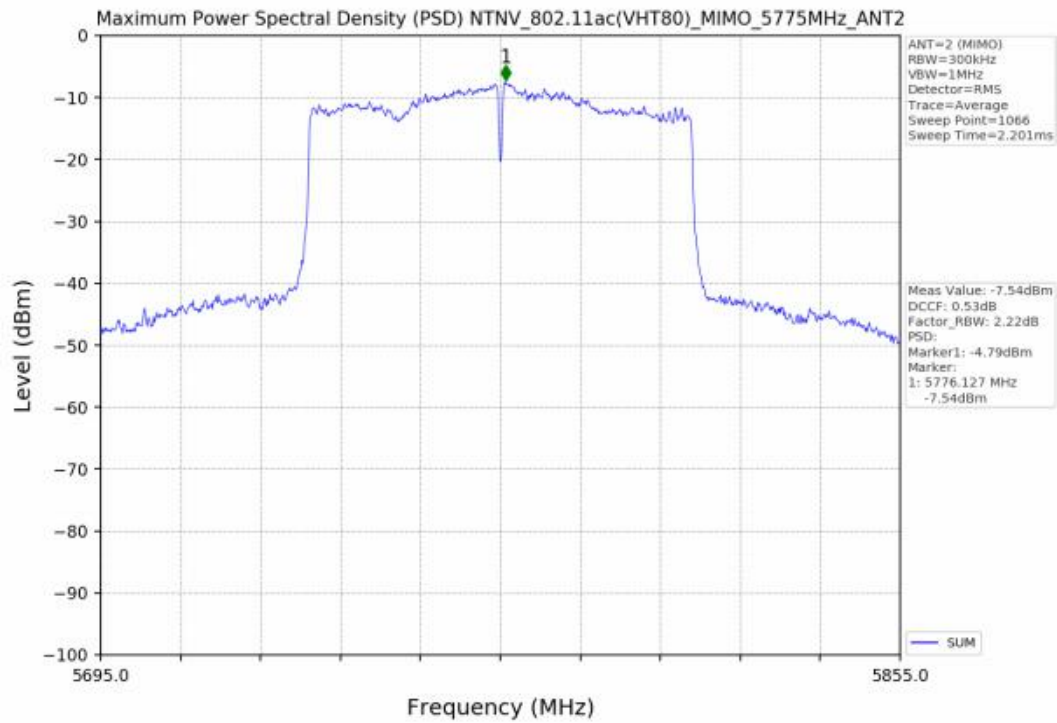


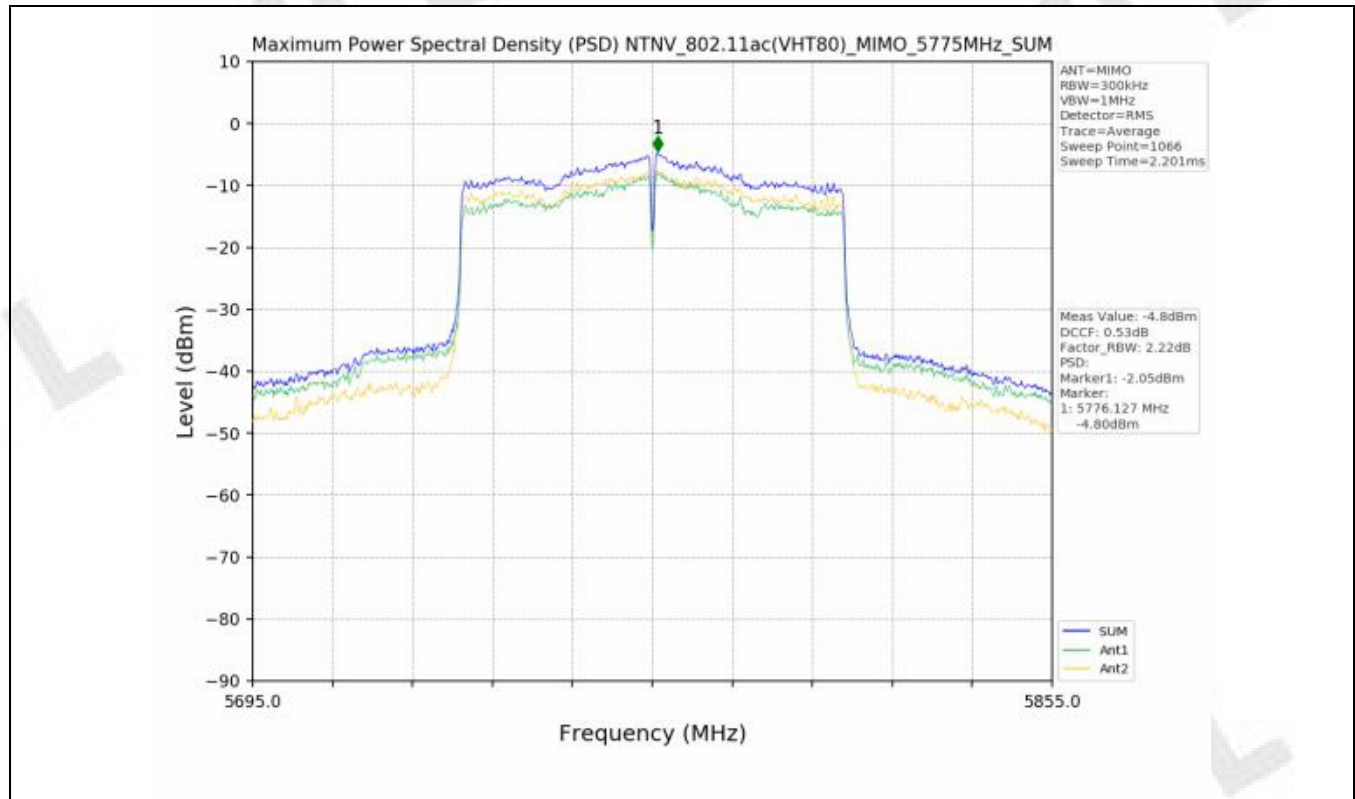












4. Frequency Stability

4.1 Test Result

Test Condition	Test Mode	Test Frequency [MHz]	Ant	Result [ppm]	Limit [ppm]	Verdict
NTVN	802.11a	5180	1	-7.72	<=20	PASS
		5200	1	-3.85	<=20	PASS
		5240	1	0	<=20	PASS
		5745	1	-6.96	<=20	PASS
		5785	1	-6.91	<=20	PASS
		5825	1	-3.43	<=20	PASS
	802.11n	5190	MIMO	0	<=20	PASS
		5230	MIMO	-7.65	<=20	PASS
		5755	MIMO	-6.95	<=20	PASS
		5795	MIMO	-6.9	<=20	PASS
	802.11ac	5210	MIMO	0	<=20	PASS
		5775	MIMO	-13.85	<=20	PASS