



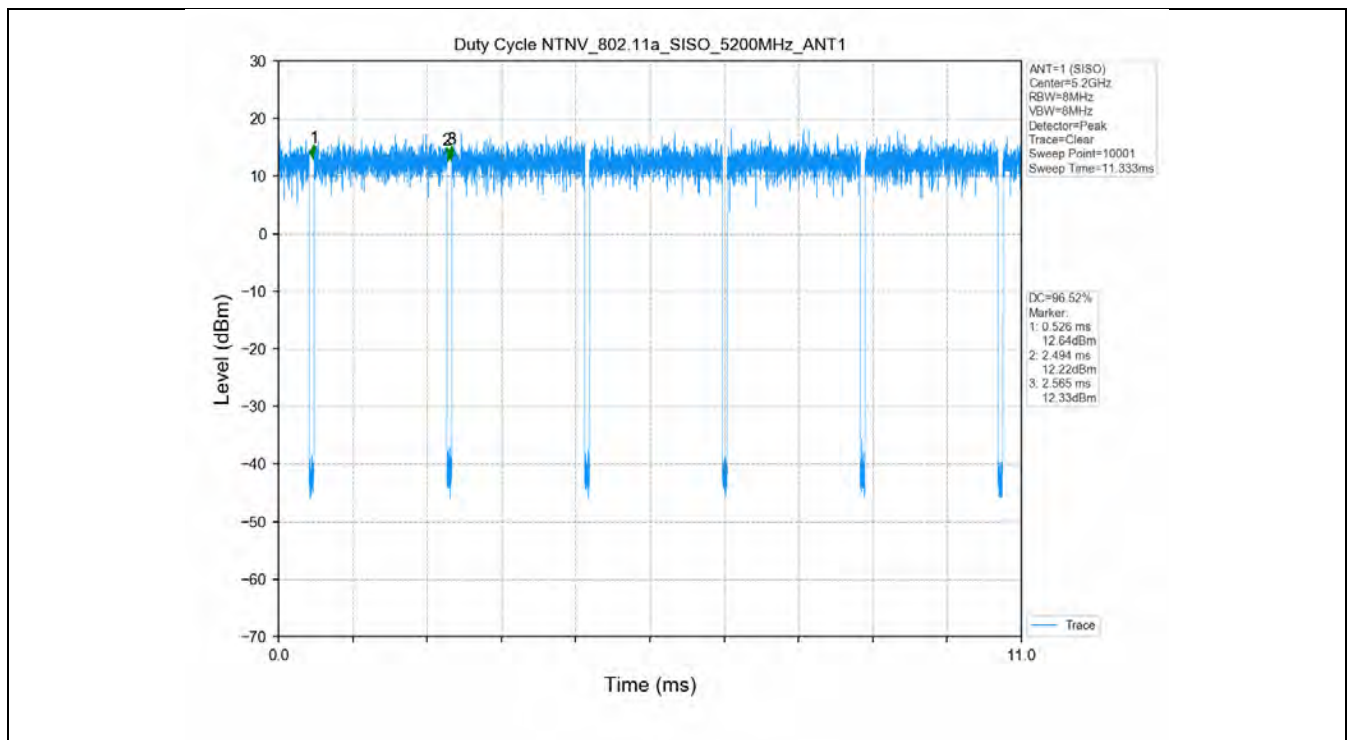
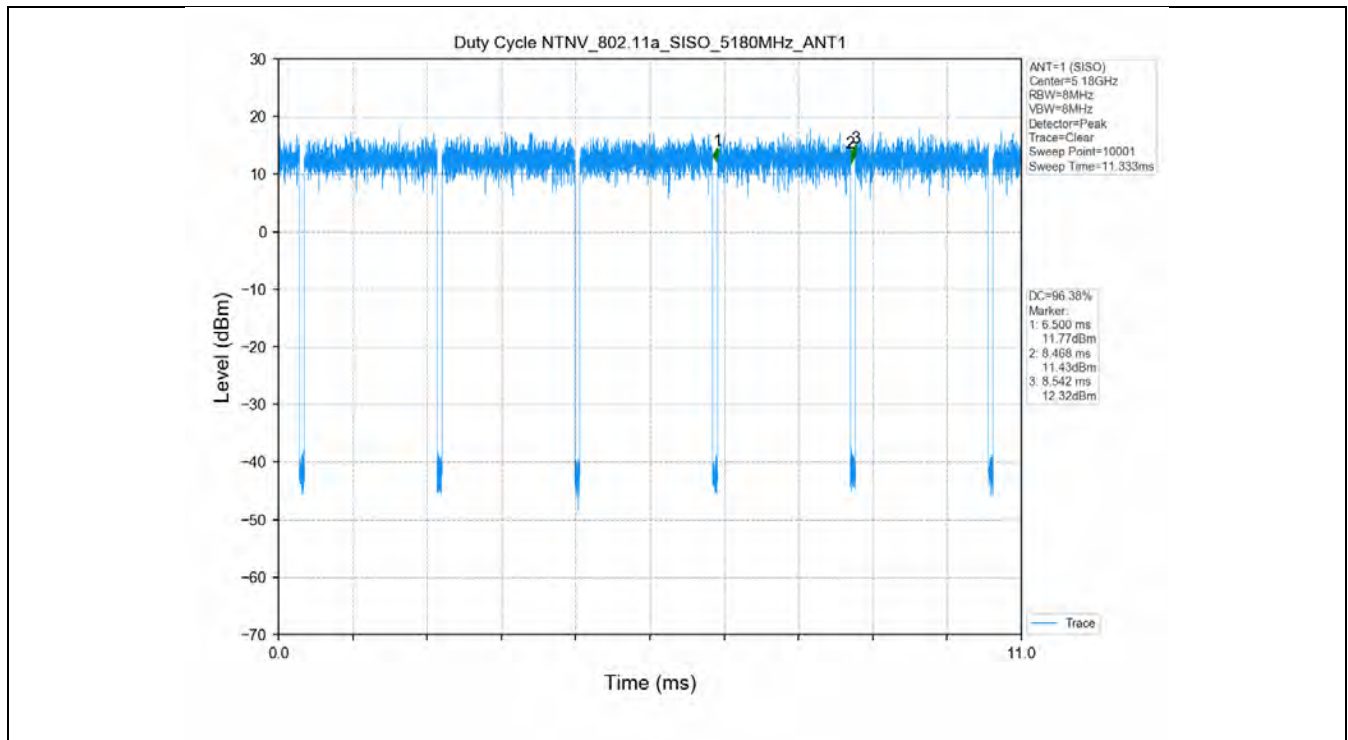
Appendix B for SHEM200600517602

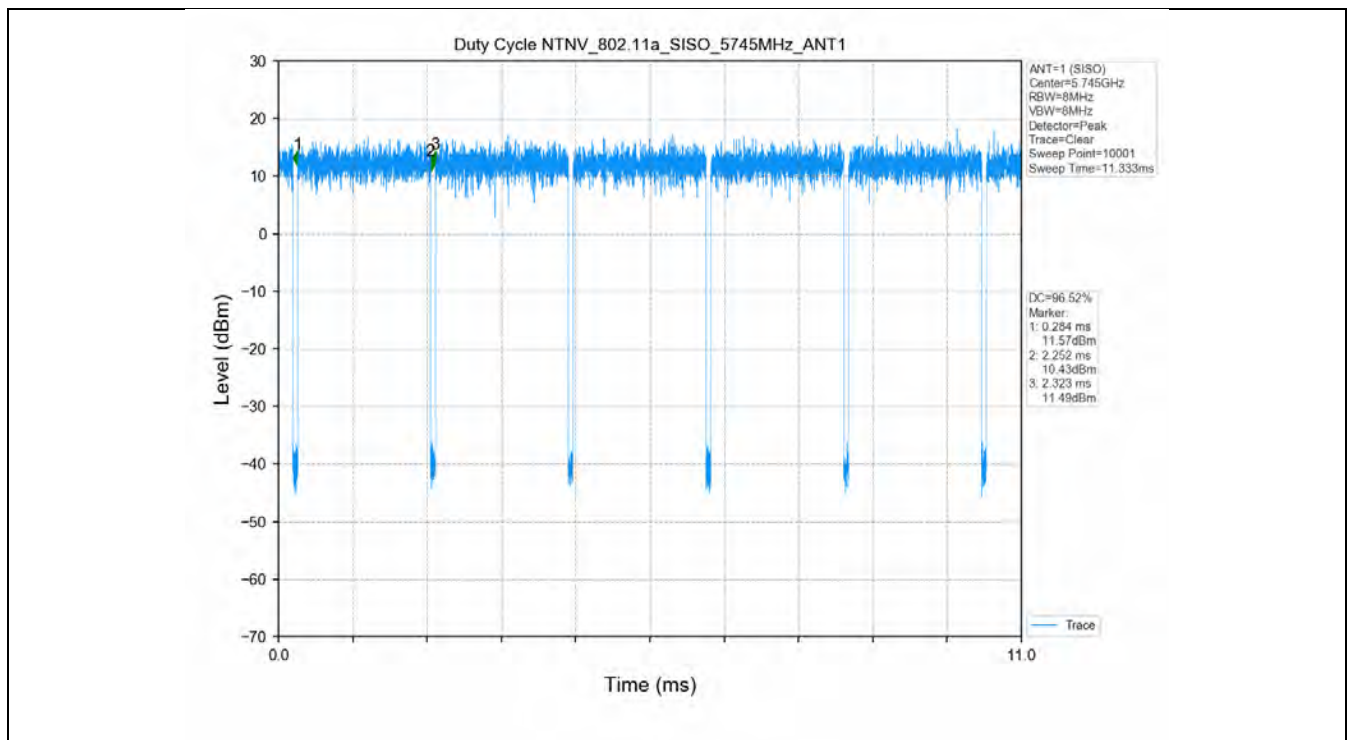
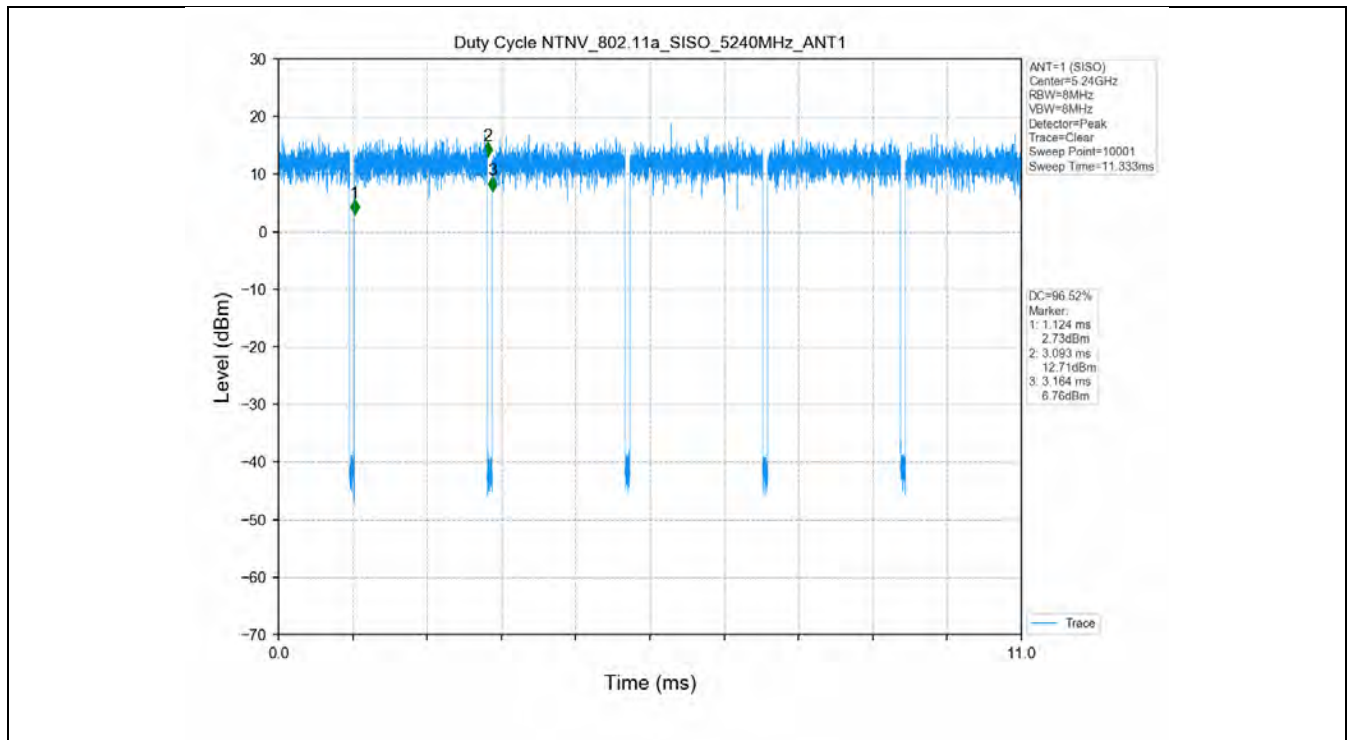
1. Duty Cycle

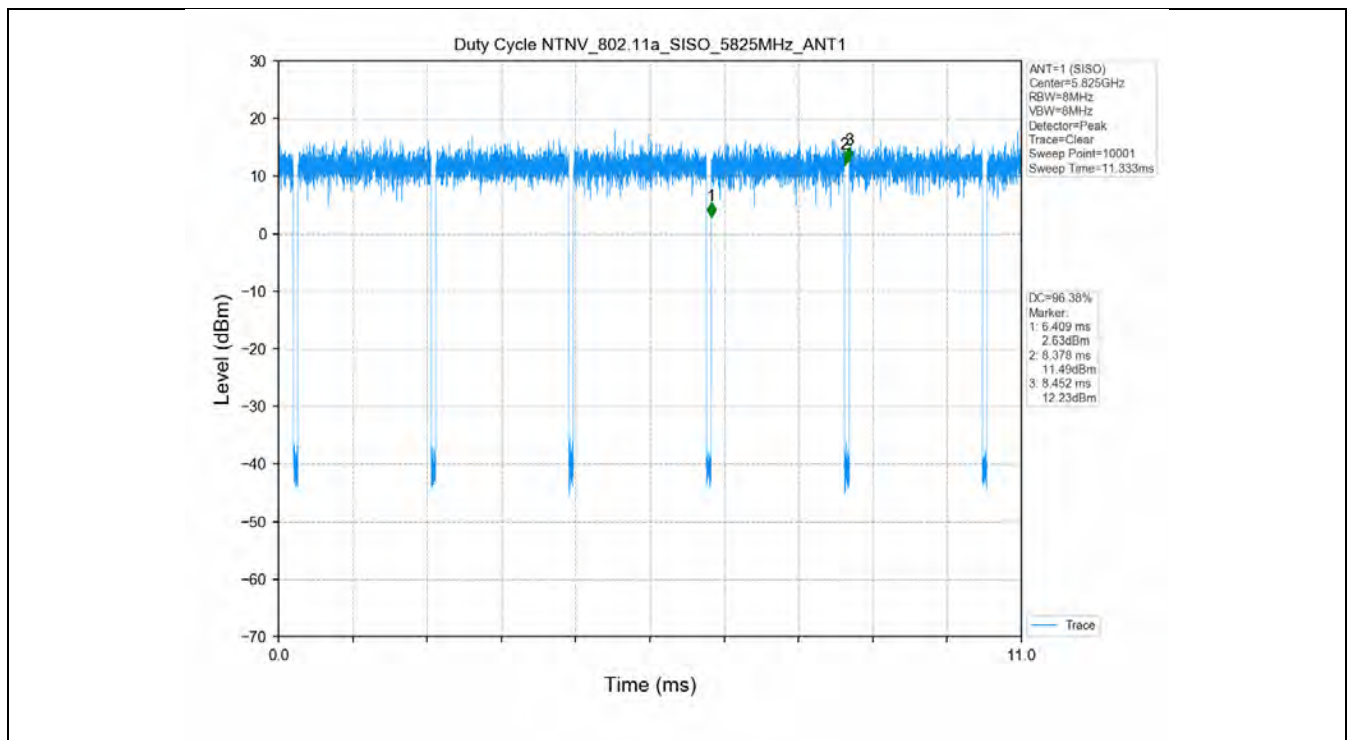
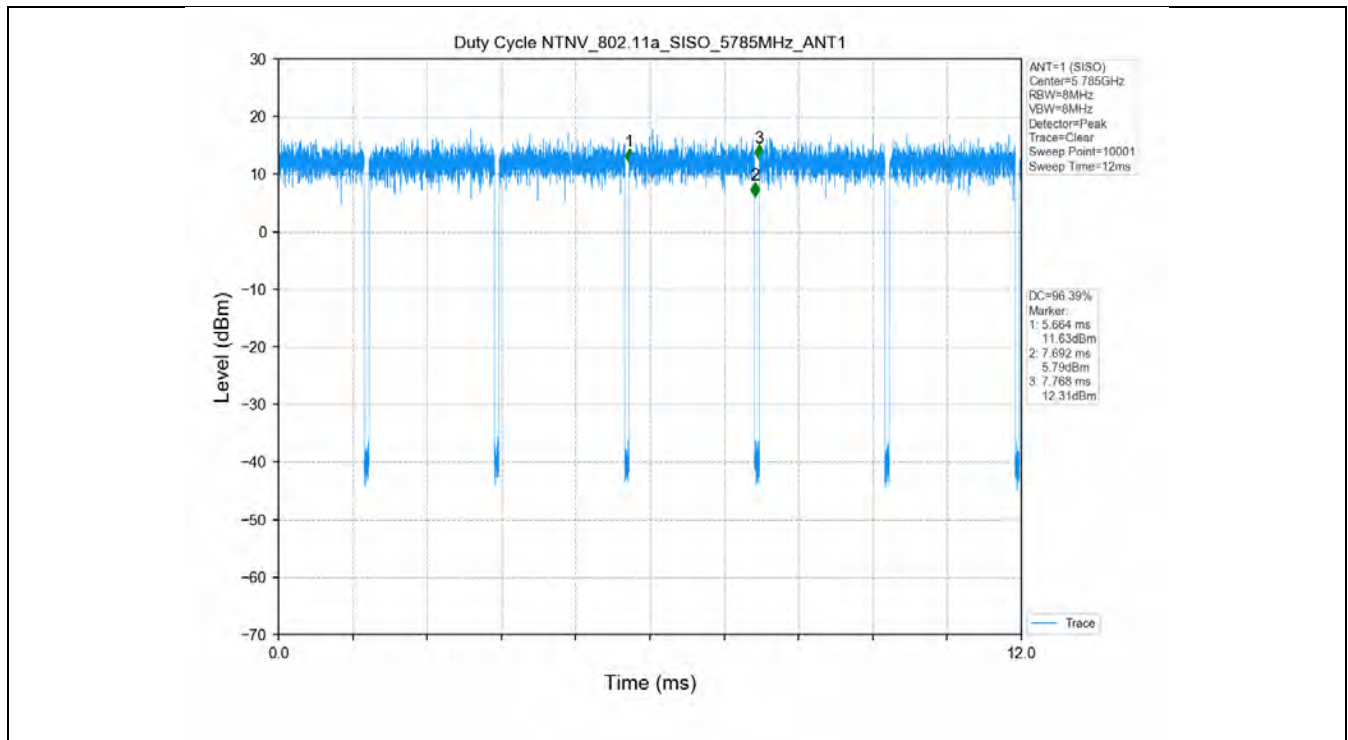
1.1 Test Result

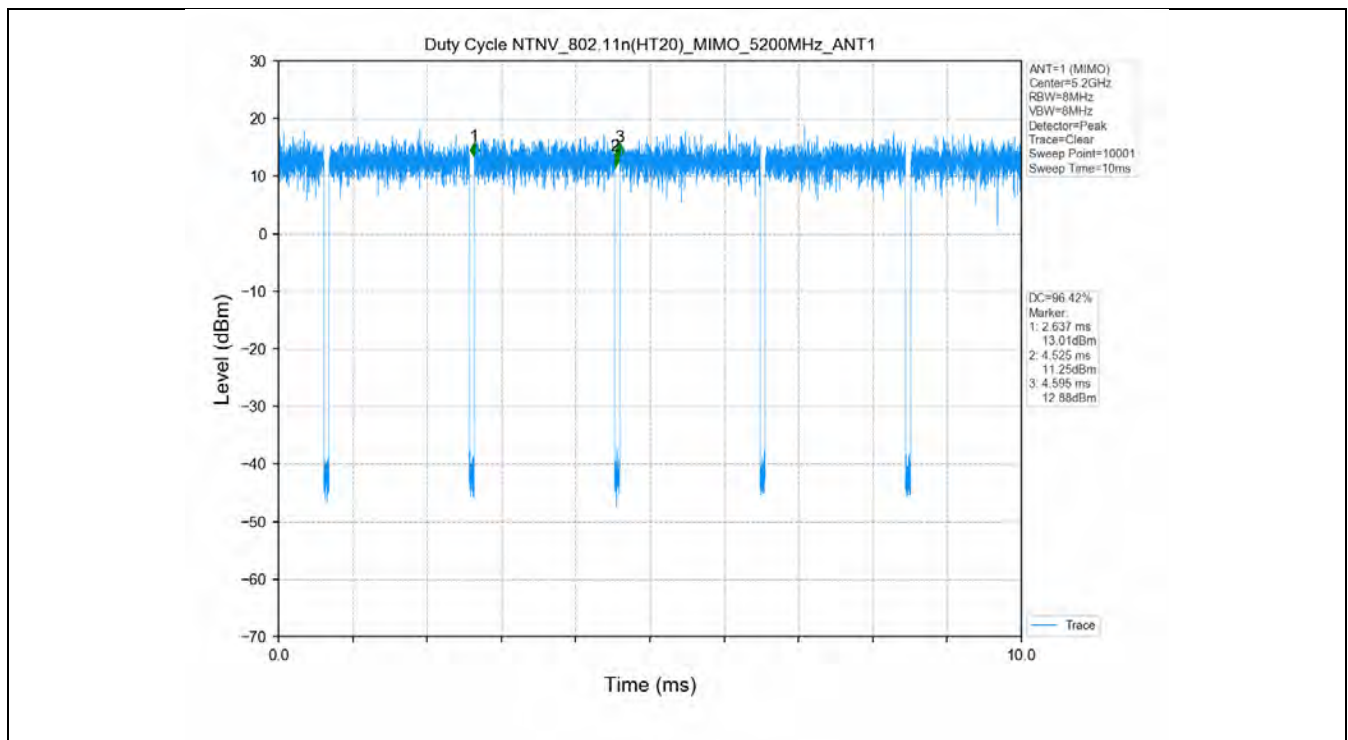
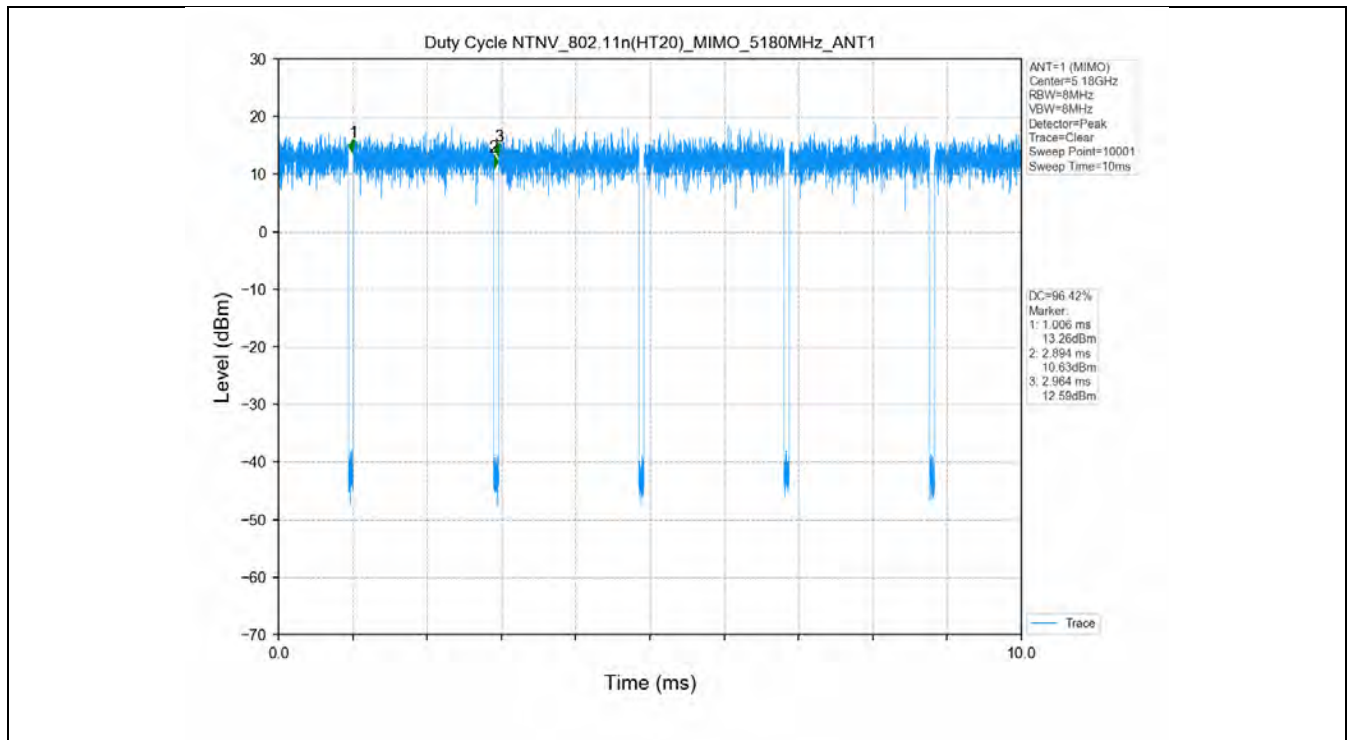
Test Mode	Channel Frequency (MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11a	5180	SISO	1	1.968	2.042	96.38	0.16
	5200	SISO	1	1.968	2.039	96.52	0.15
	5240	SISO	1	1.969	2.040	96.52	0.15
	5745	SISO	1	1.968	2.039	96.52	0.15
	5785	SISO	1	2.028	2.104	96.39	0.16
	5825	SISO	1	1.969	2.043	96.38	0.16
802.11n(HT20)	5180	MIMO	1	1.888	1.958	96.42	0.16
	5200	MIMO	1	1.888	1.958	96.42	0.16
	5240	MIMO	1	1.888	1.959	96.38	0.16
	5745	MIMO	1	1.888	1.958	96.42	0.16
	5785	MIMO	1	1.888	1.958	96.42	0.16
	5825	MIMO	1	1.888	1.958	96.42	0.16
802.11n(HT40)	5190	MIMO	1	0.928	0.998	92.99	0.32
	5230	MIMO	1	0.928	0.998	92.99	0.32
	5755	MIMO	1	0.928	1.002	92.61	0.33
	5795	MIMO	1	0.928	0.998	92.99	0.32
802.11ac(VHT20)	5180	MIMO	1	1.900	1.971	96.40	0.16
	5200	MIMO	1	1.900	1.970	96.45	0.16
	5240	MIMO	1	1.900	1.970	96.45	0.16
	5745	MIMO	1	1.844	1.912	96.44	0.16
	5785	MIMO	1	1.843	1.912	96.39	0.16
	5825	MIMO	1	1.900	1.973	96.30	0.16
802.11ac(VHT40)	5190	MIMO	1	0.936	1.011	92.58	0.33
	5230	MIMO	1	0.936	1.011	92.58	0.33
	5755	MIMO	1	0.936	1.006	93.04	0.31
	5795	MIMO	1	0.936	1.010	92.67	0.33
802.11ac(VHT80)	5210	MIMO	1	1.136	1.206	94.20	0.26
	5775	MIMO	1	1.136	1.206	94.20	0.26

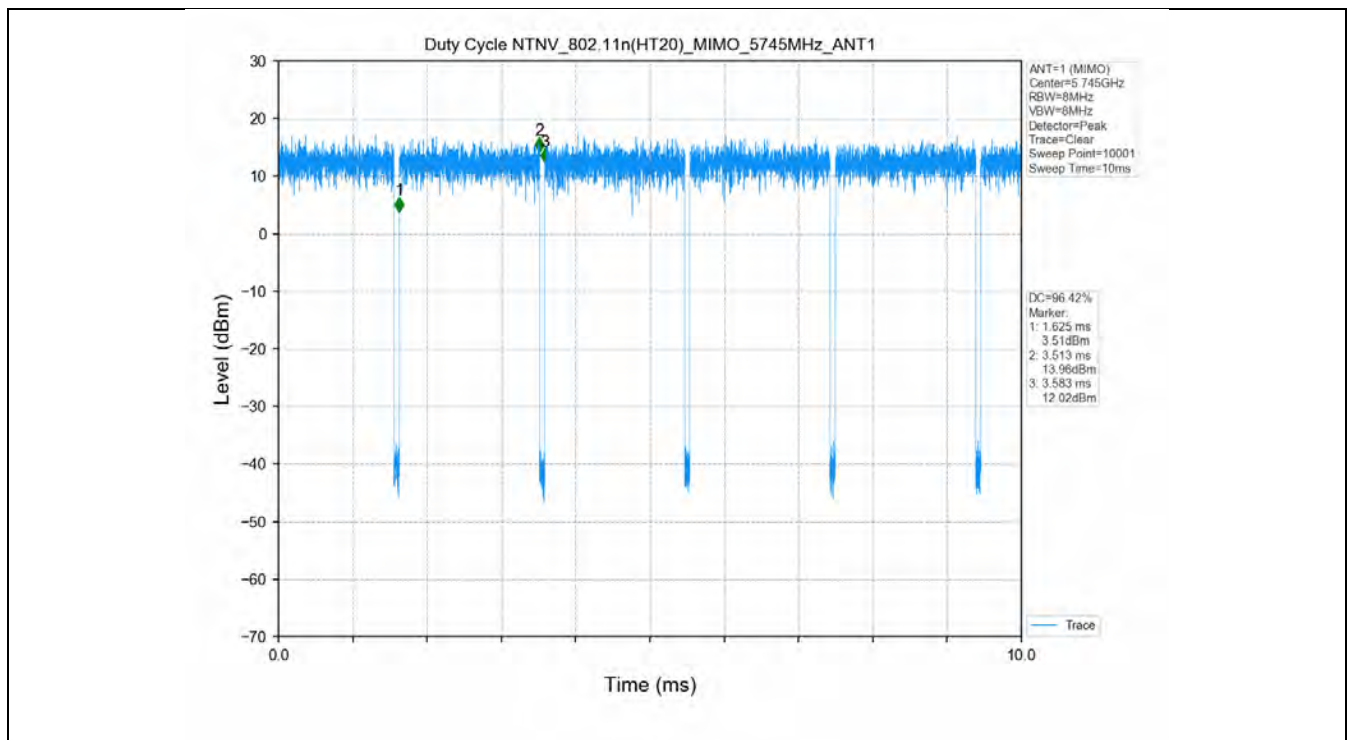
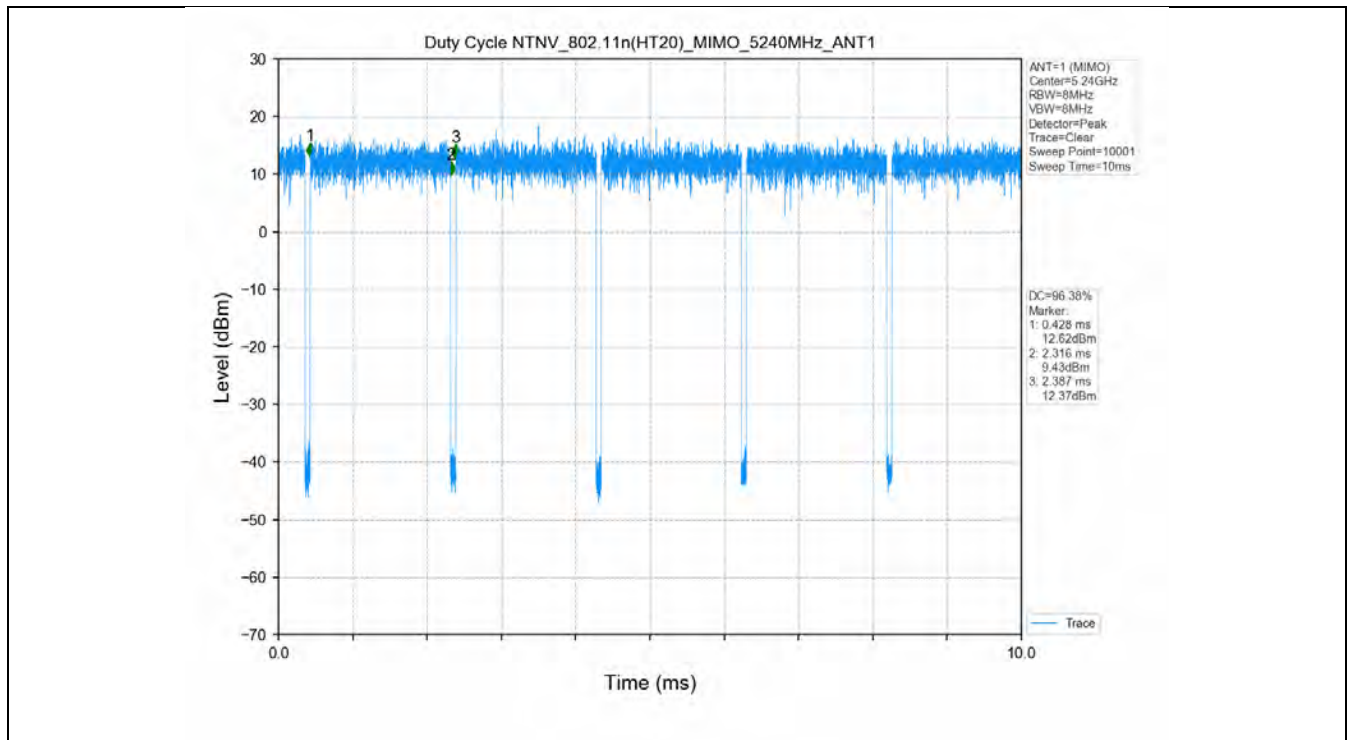
1.2 Test Graph

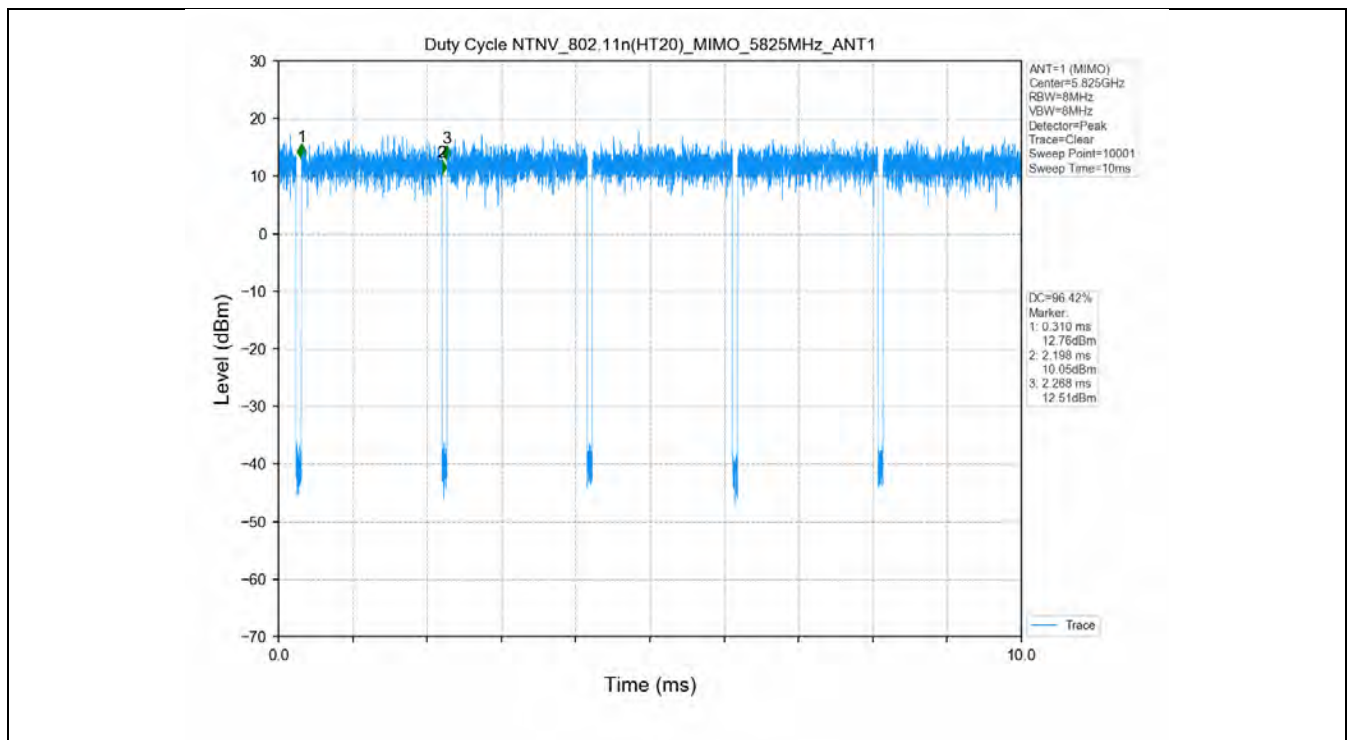
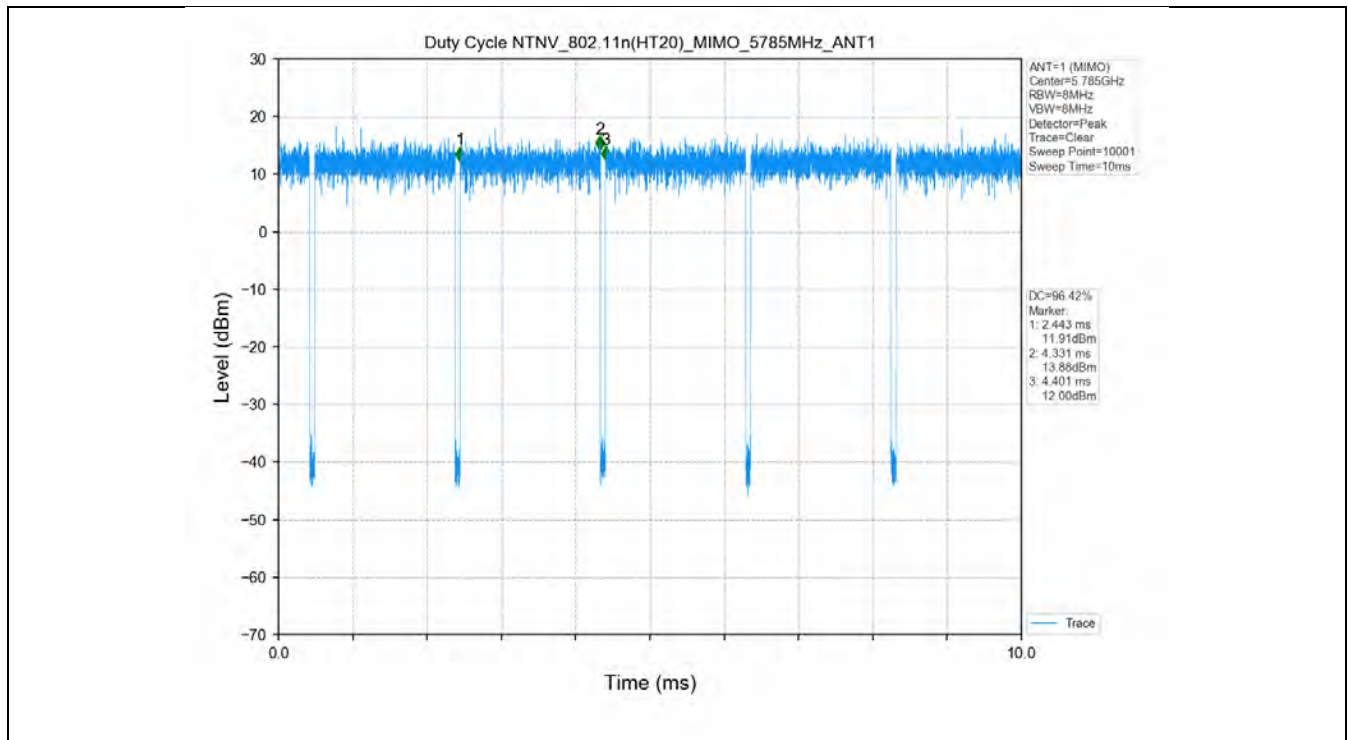


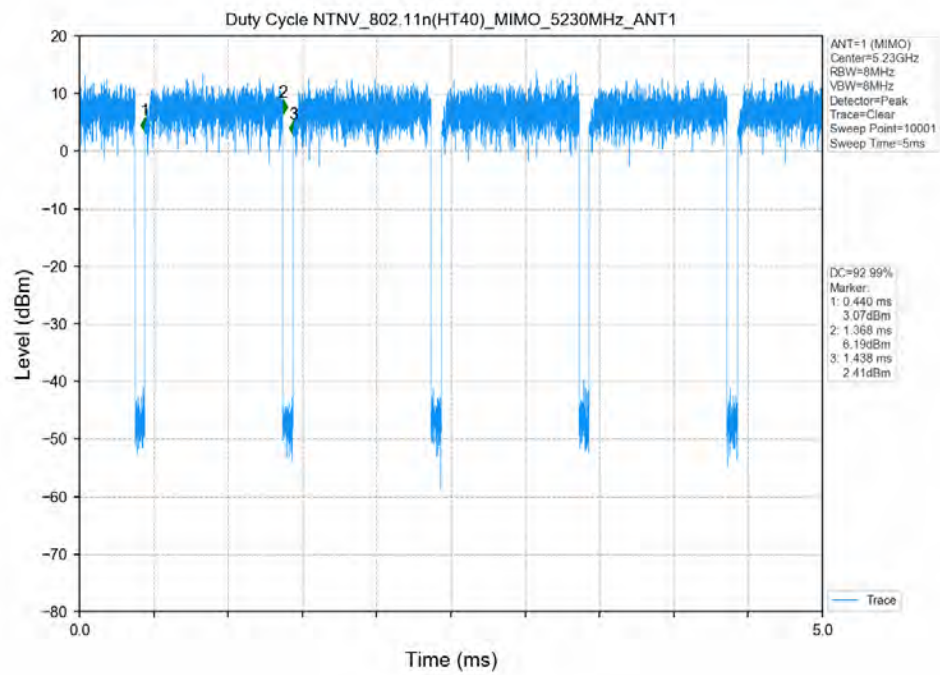
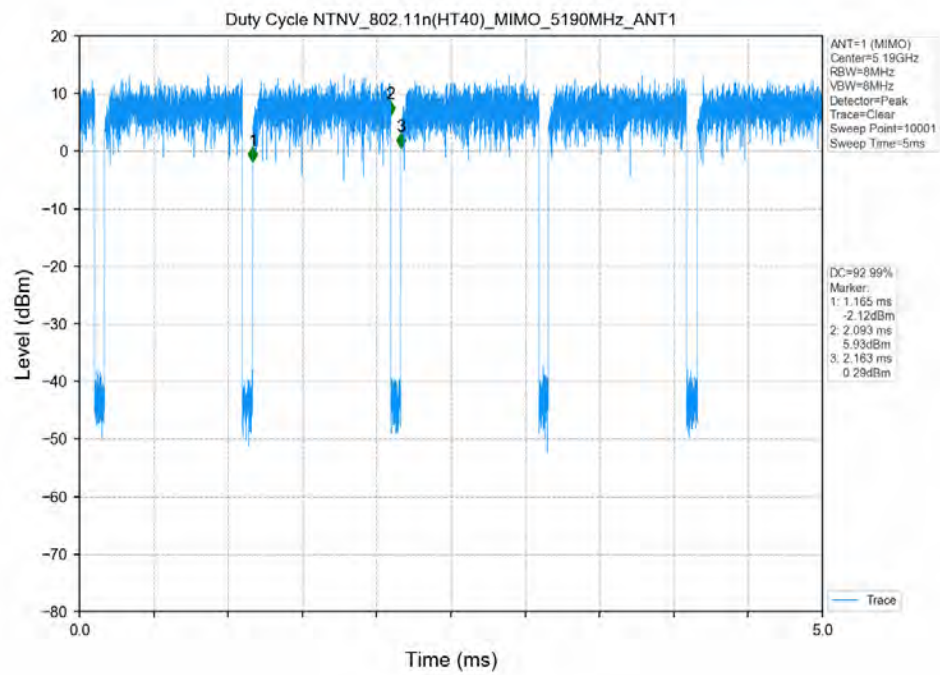


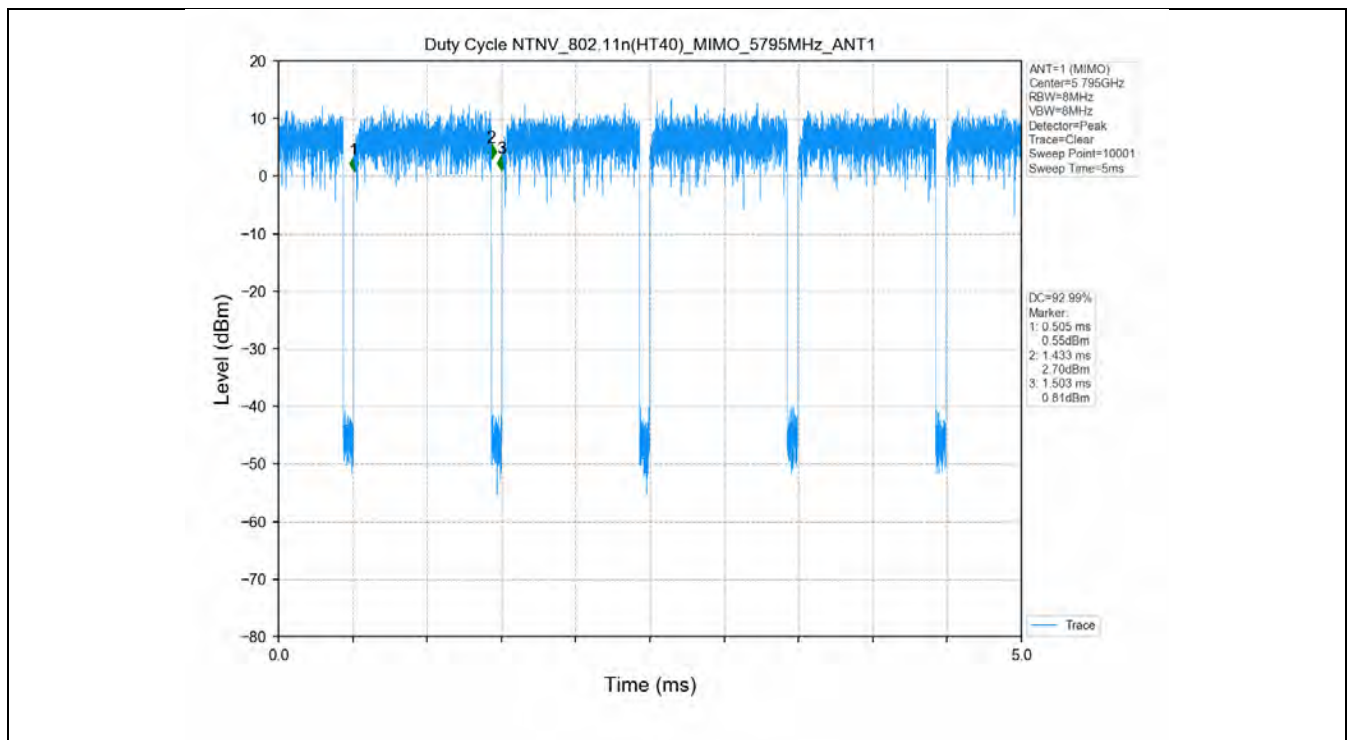
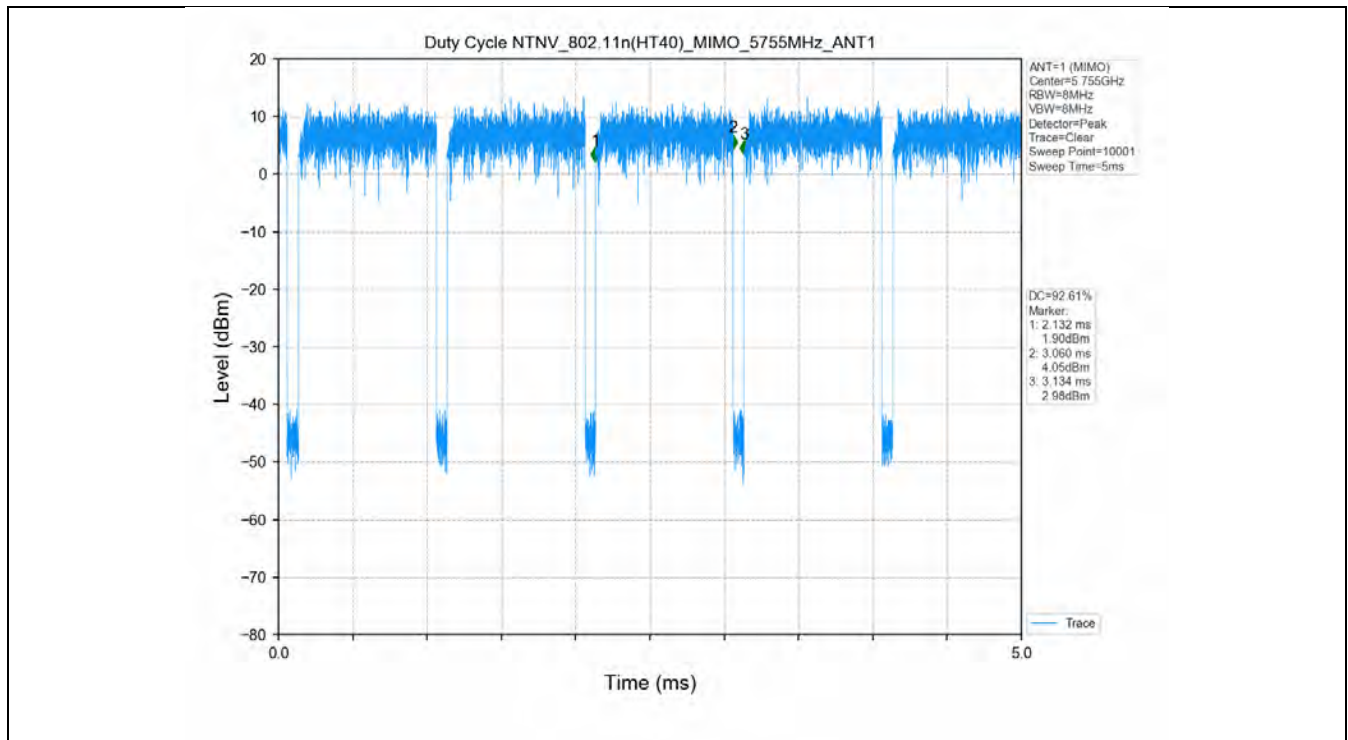


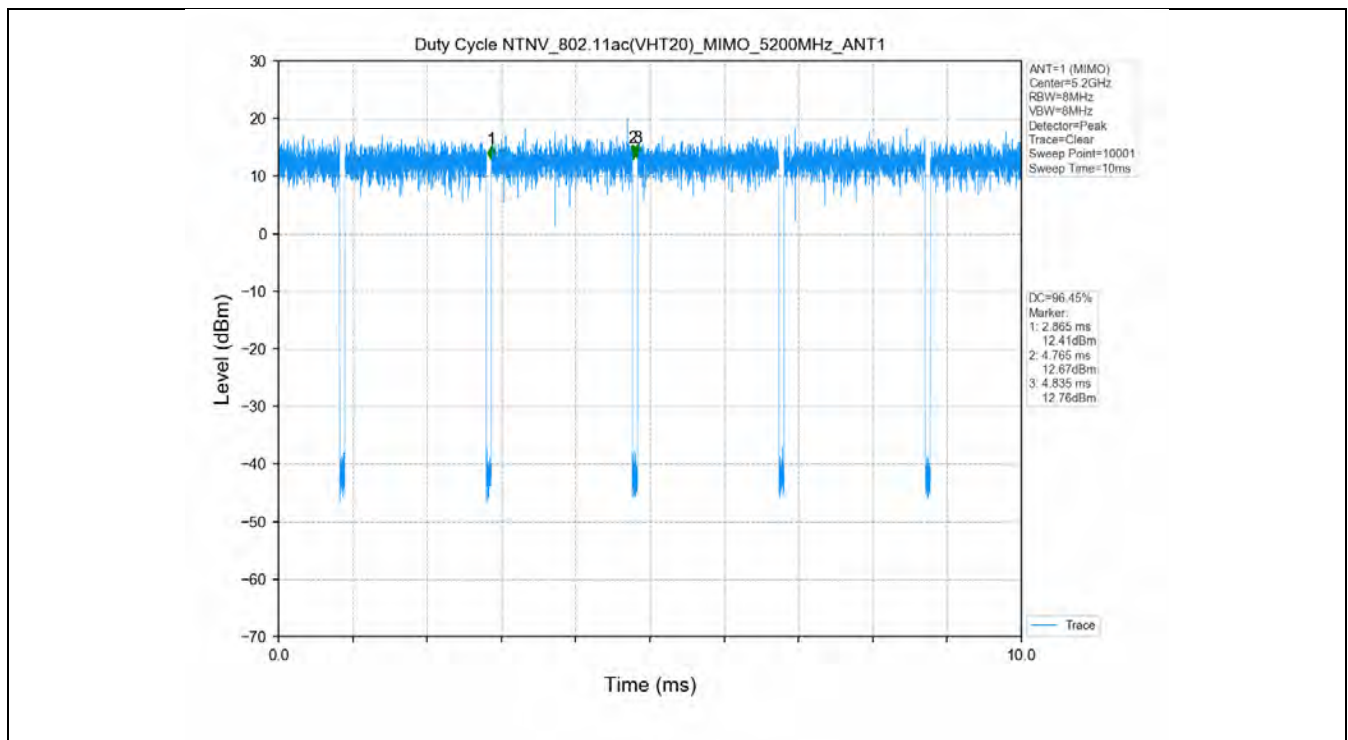
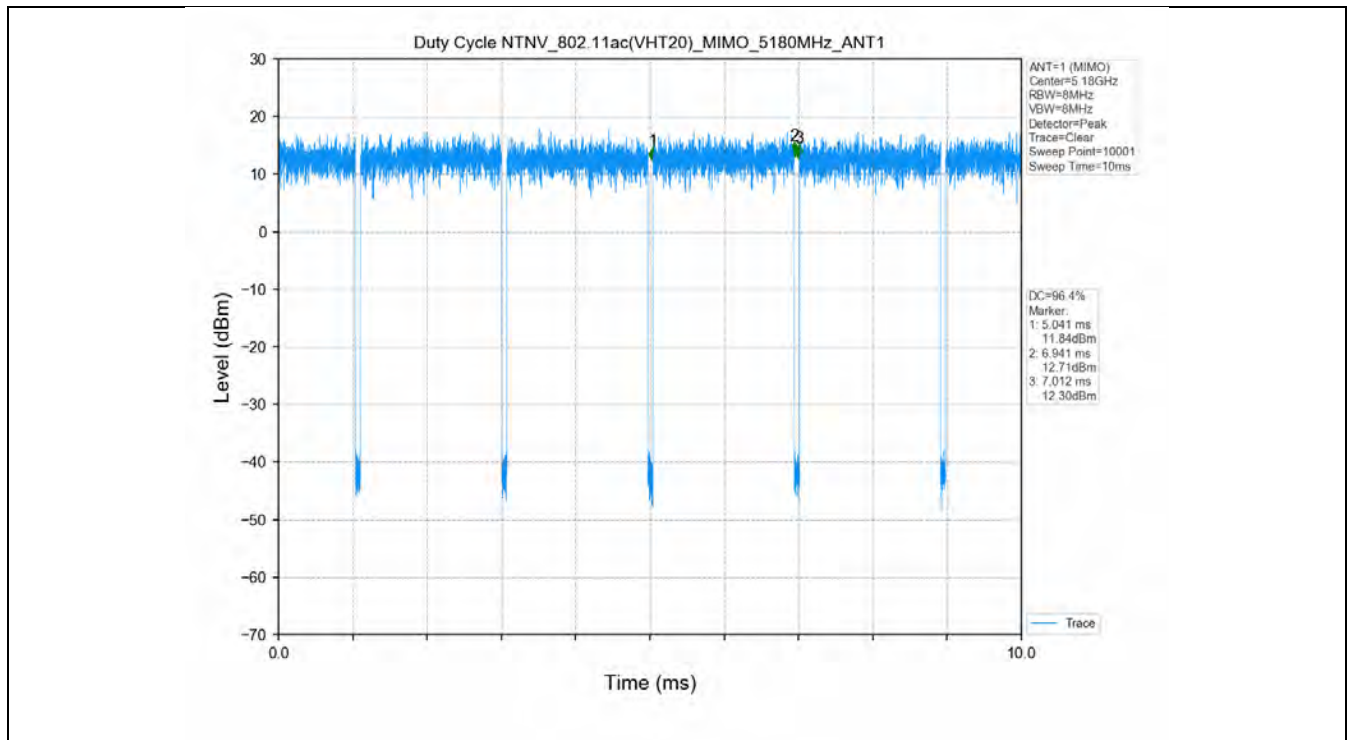


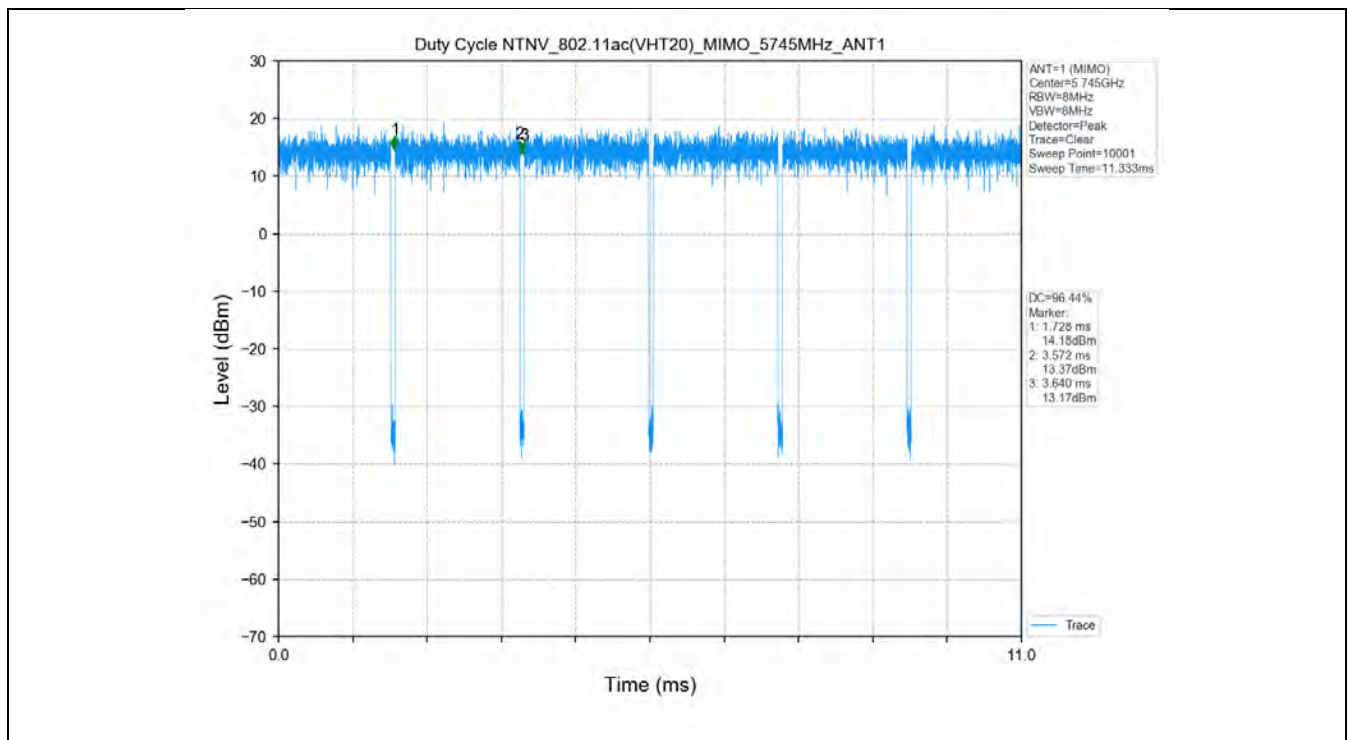
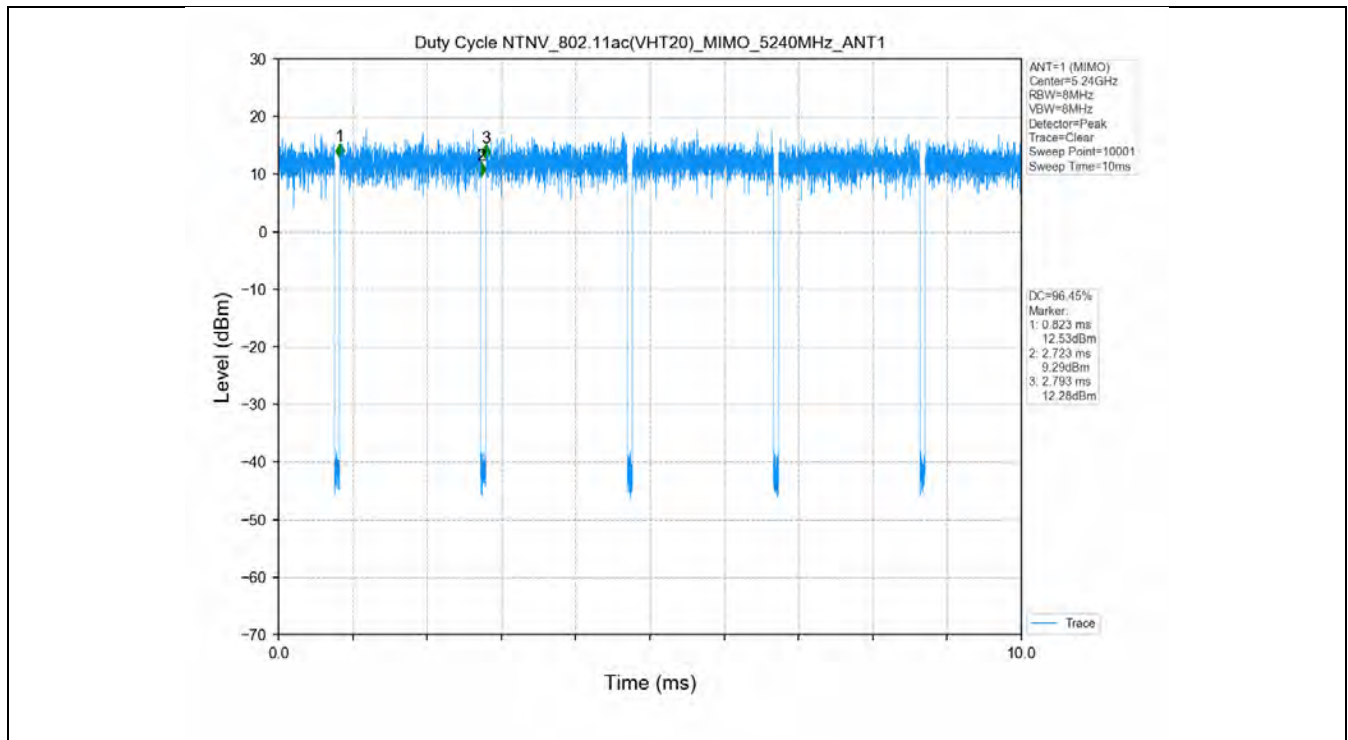


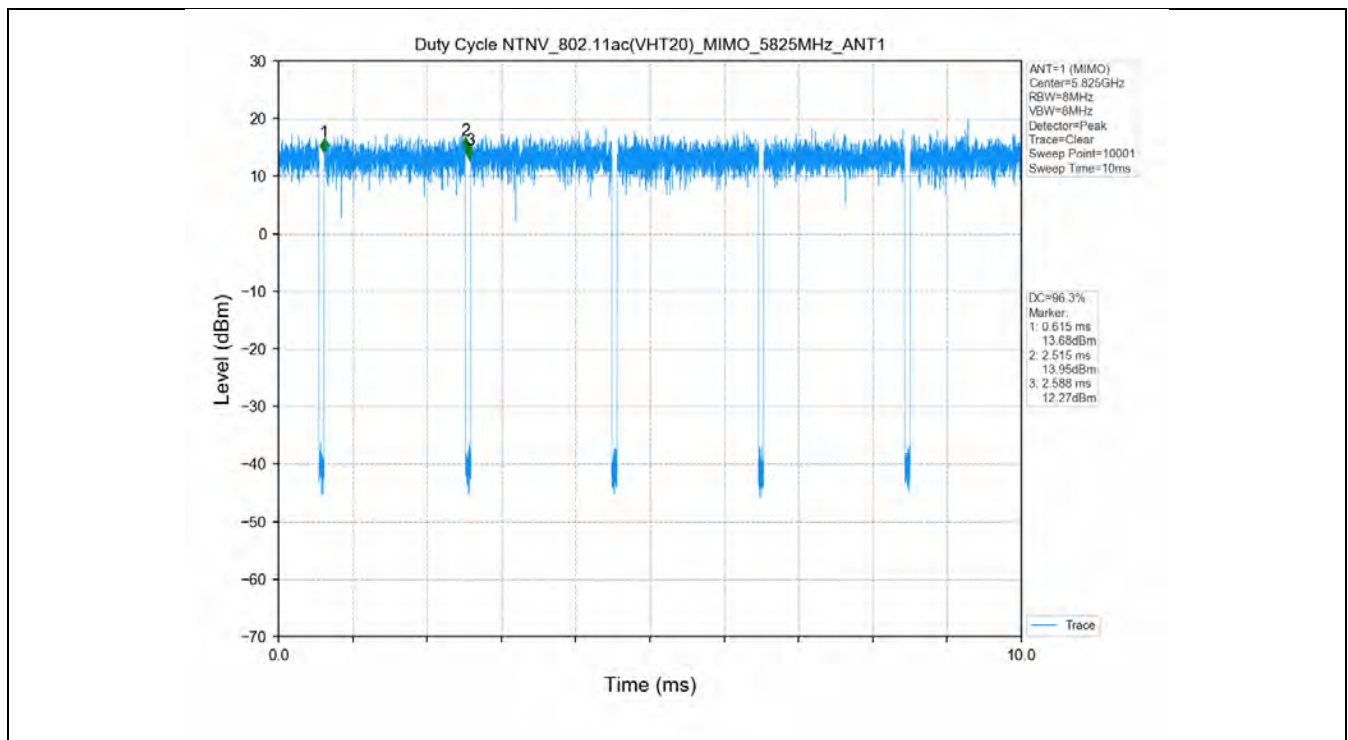
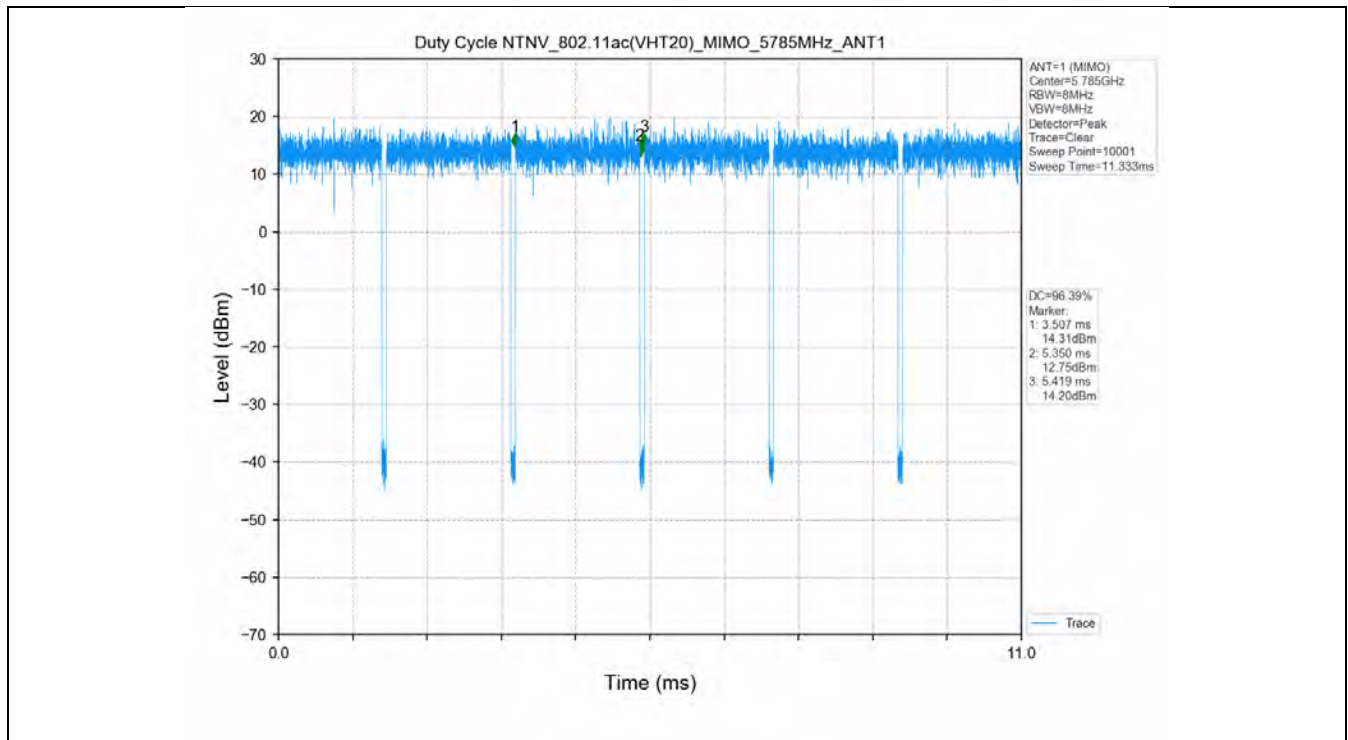


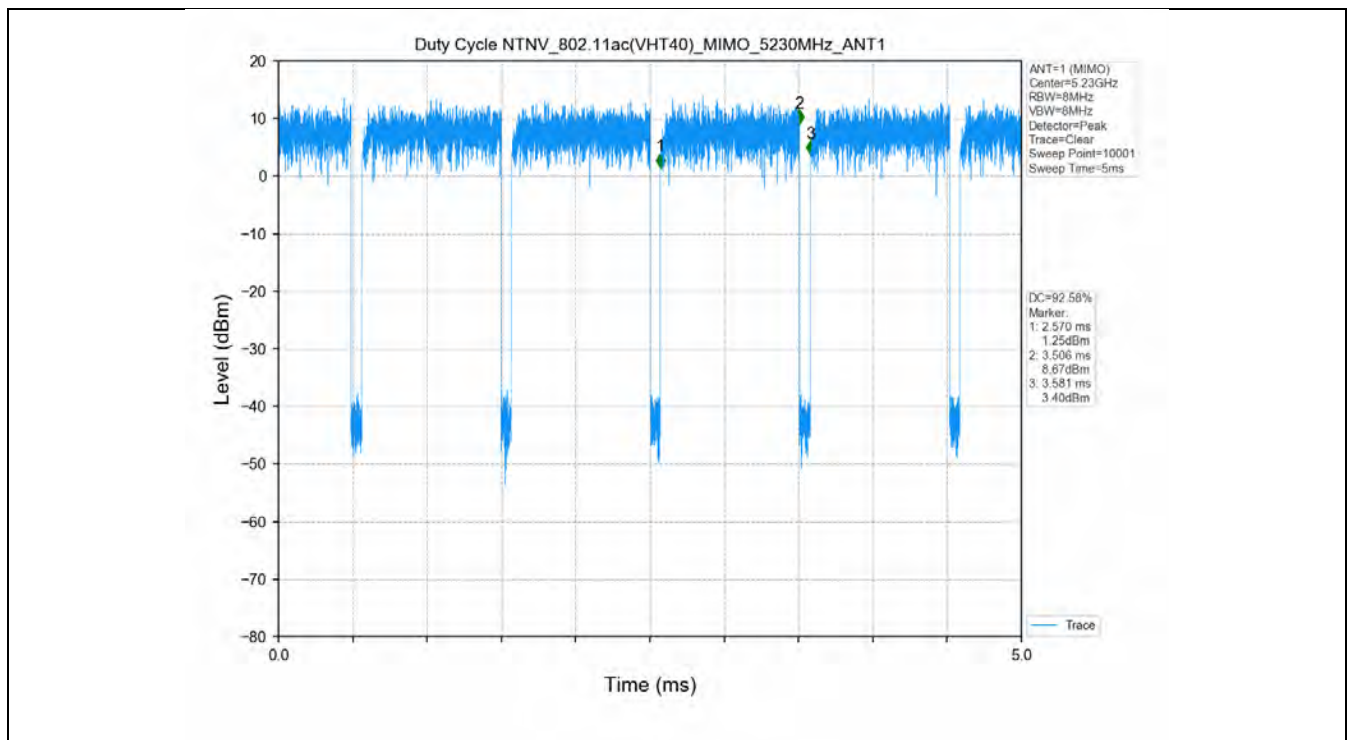
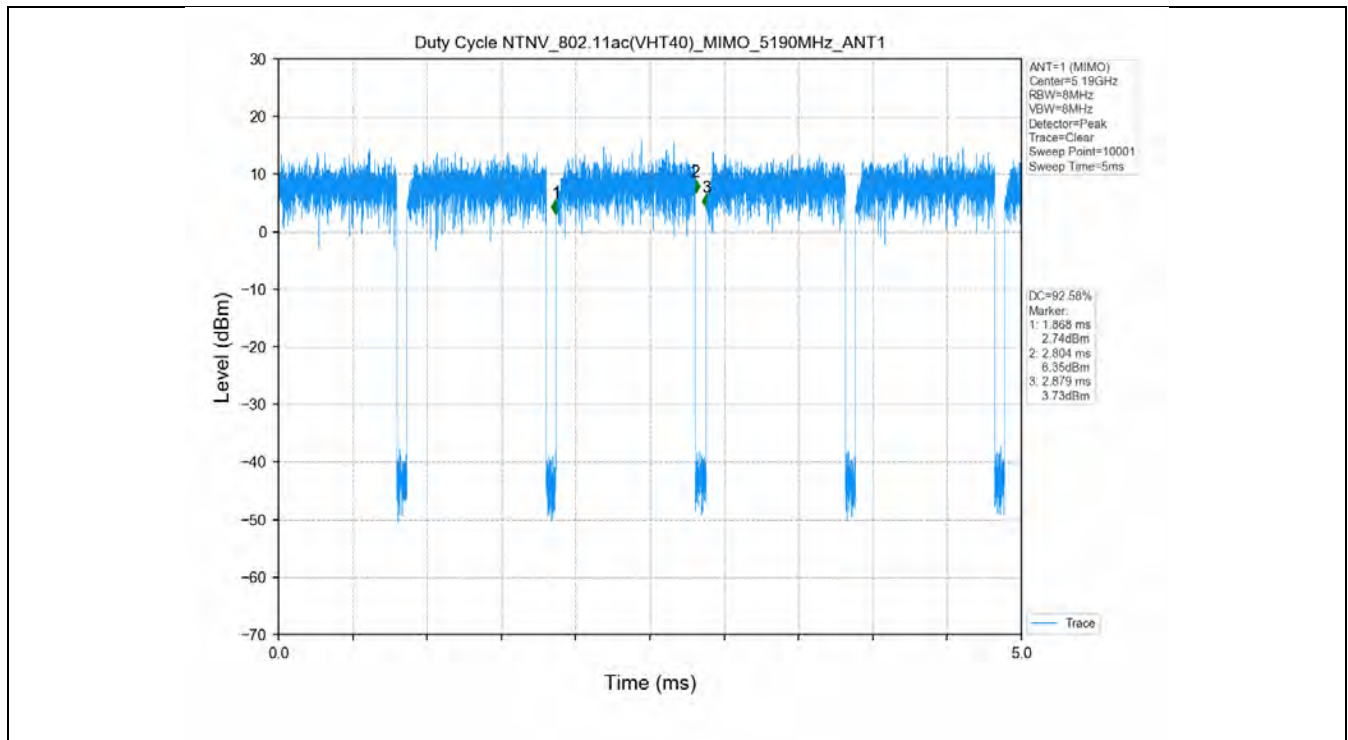


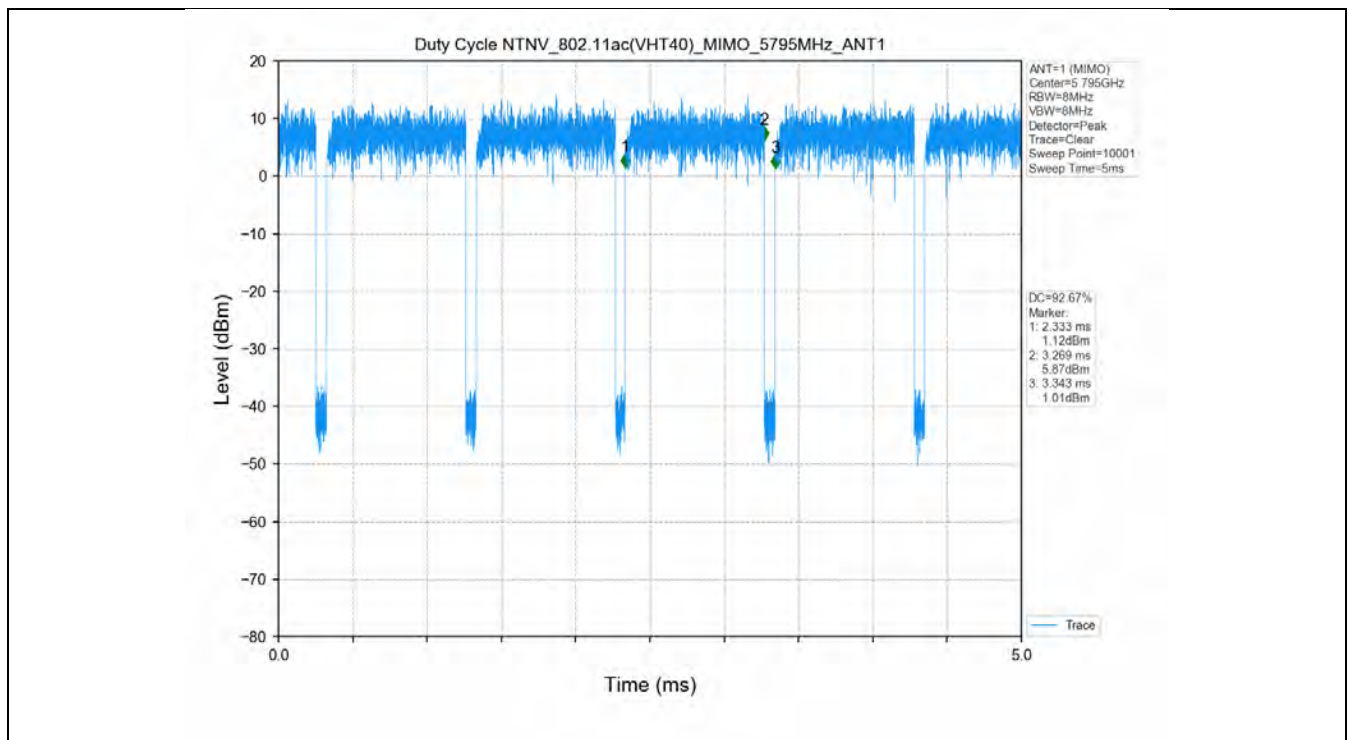
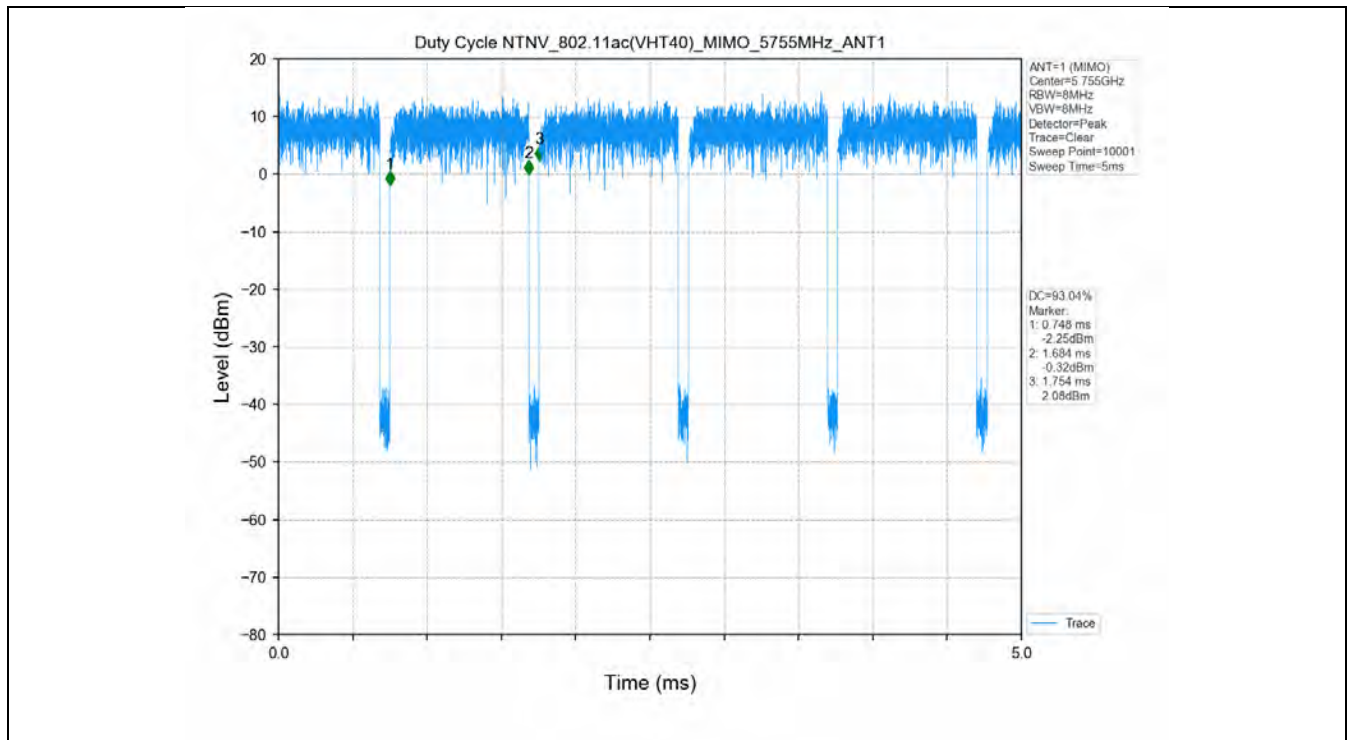


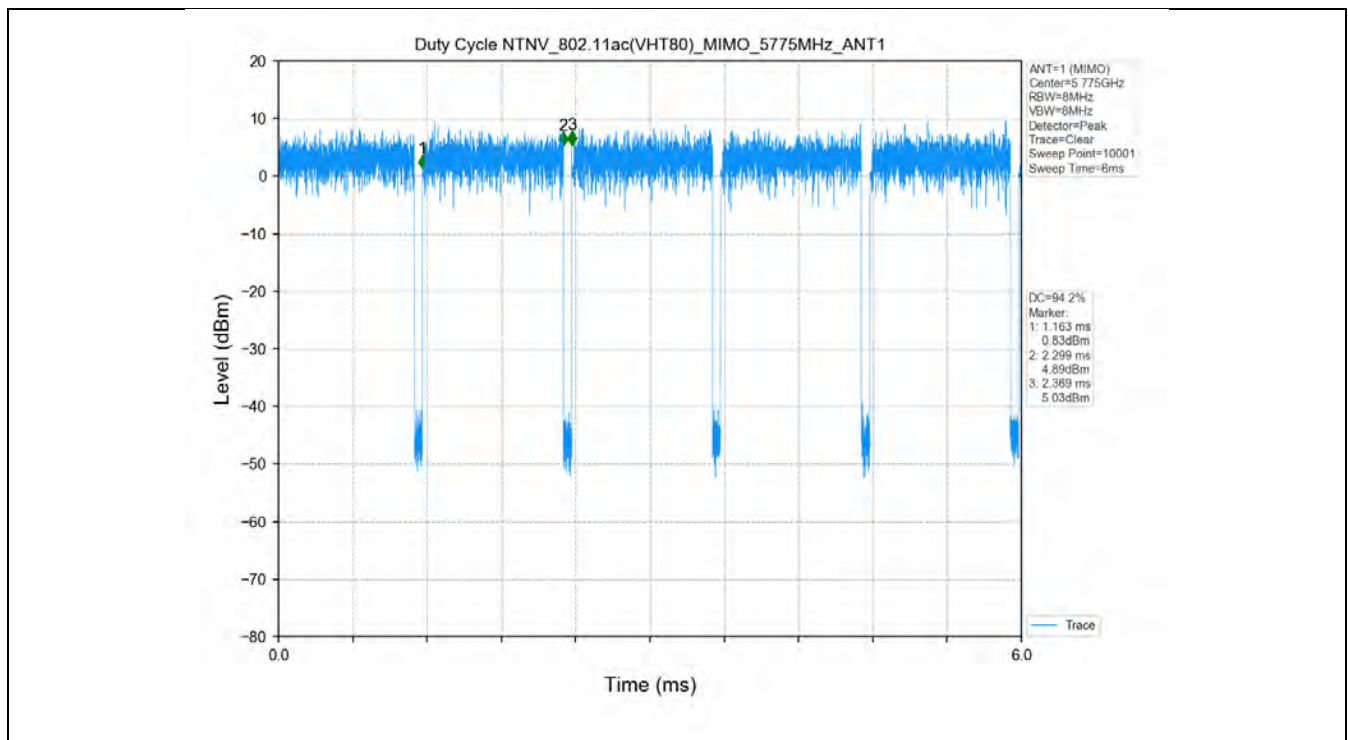
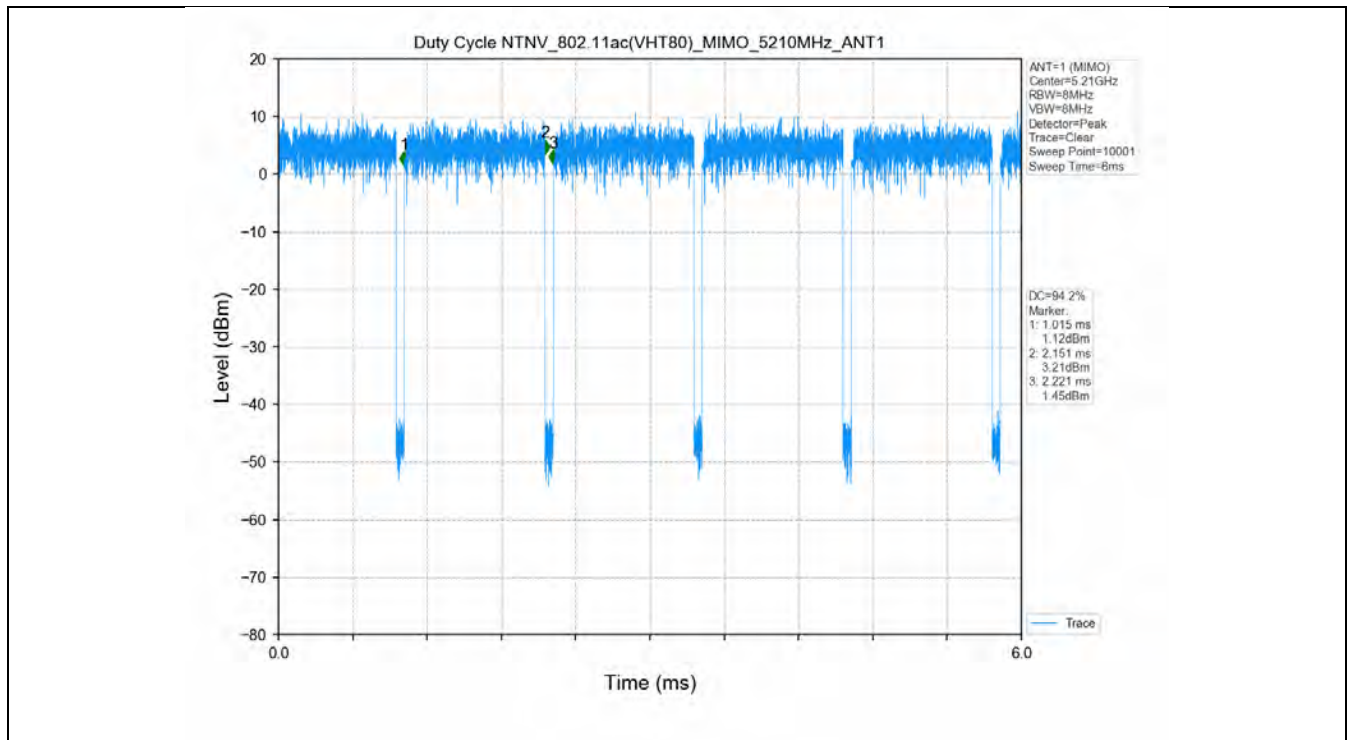














2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11a	5180	SISO	1	20.742	Only for Report Use	PASS
			2	21.317	Only for Report Use	PASS
	5200	SISO	1	20.608	Only for Report Use	PASS
			2	20.828	Only for Report Use	PASS
	5240	SISO	1	21.130	Only for Report Use	PASS
			2	21.152	Only for Report Use	PASS
	5745	SISO	1	16.419	≥0.5	PASS
			2	16.396	≥0.5	PASS
	5785	SISO	1	16.414	≥0.5	PASS
			2	16.444	≥0.5	PASS
802.11n(HT20)	5180	MIMO	1	22.446	Only for Report Use	PASS
			2	21.736	Only for Report Use	PASS
	5200	MIMO	1	22.615	Only for Report Use	PASS
			2	21.960	Only for Report Use	PASS
	5240	MIMO	1	21.312	Only for Report Use	PASS
			2	21.455	Only for Report Use	PASS
	5745	MIMO	1	17.658	≥0.5	PASS
			2	17.600	≥0.5	PASS
	5785	MIMO	1	17.629	≥0.5	PASS
			2	17.569	≥0.5	PASS
802.11n(HT40)	5190	MIMO	1	43.359	Only for Report Use	PASS
			2	43.058	Only for Report Use	PASS
	5230	MIMO	1	42.745	Only for Report Use	PASS
			2	43.816	Only for Report Use	PASS
	5755	MIMO	1	36.105	≥0.5	PASS
			2	35.369	≥0.5	PASS
	5795	MIMO	1	36.304	≥0.5	PASS
			2	36.142	≥0.5	PASS
802.11ac(VHT20)	5180	MIMO	1	21.667	Only for Report Use	PASS
			2	22.097	Only for Report Use	PASS
	5200	MIMO	1	21.362	Only for Report Use	PASS
			2	22.173	Only for Report Use	PASS
	5240	MIMO	1	21.909	Only for Report Use	PASS
			2	21.976	Only for Report Use	PASS
	5745	MIMO	1	17.612	≥0.5	PASS
			2	17.617	≥0.5	PASS
	5785	MIMO	1	17.639	≥0.5	PASS
			2	17.609	≥0.5	PASS
802.11ac(VHT40)	5190	MIMO	1	42.776	Only for Report Use	PASS
			2	42.539	Only for Report Use	PASS
	5230	MIMO	1	42.879	Only for Report Use	PASS
			2	43.056	Only for Report Use	PASS
	5755	MIMO	1	36.051	≥0.5	PASS
			1	36.051	≥0.5	PASS



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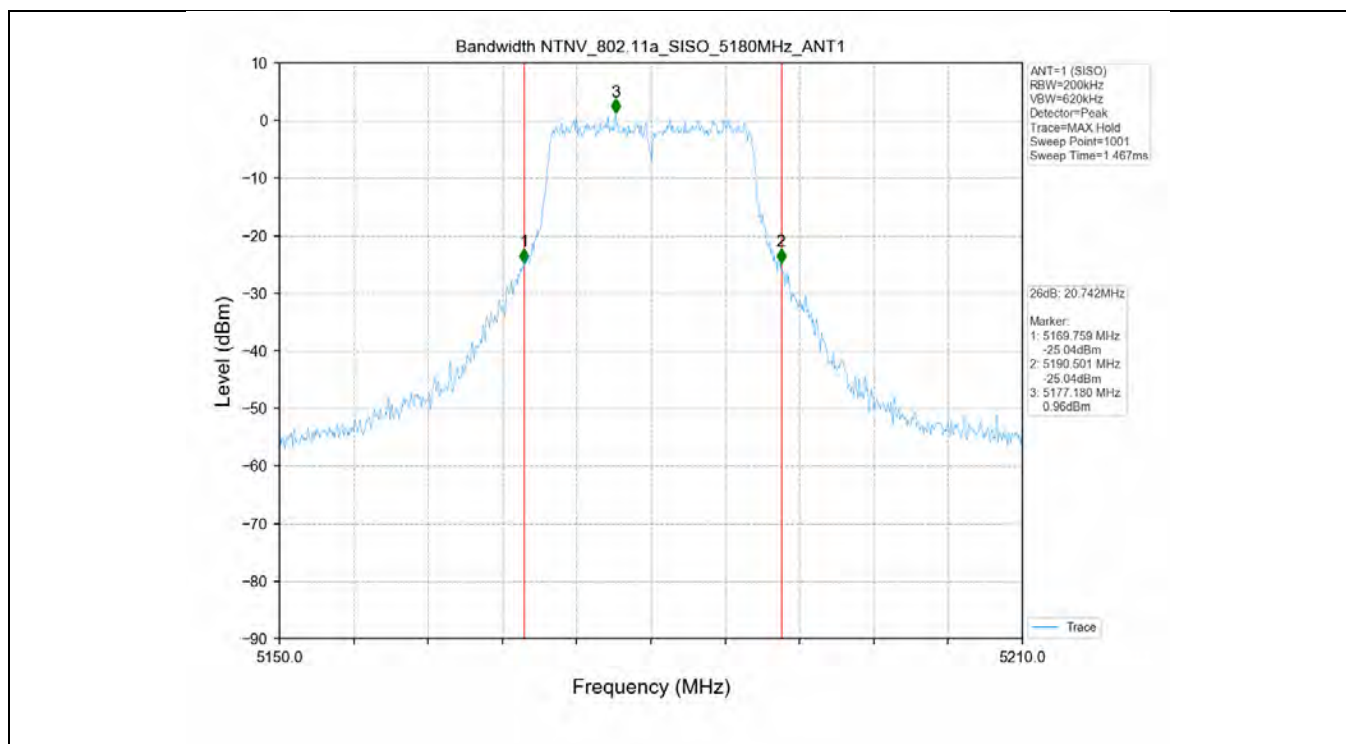
802.11ac(VHT80)	5795	MIMO	2	36.384	≥0.5	PASS
			1	36.272	≥0.5	PASS
			2	36.000	≥0.5	PASS
	5210	MIMO	1	85.881	Only for Report Use	PASS
			2	87.847	Only for Report Use	PASS
	5775	MIMO	1	75.675	≥0.5	PASS
			2	75.901	≥0.5	PASS

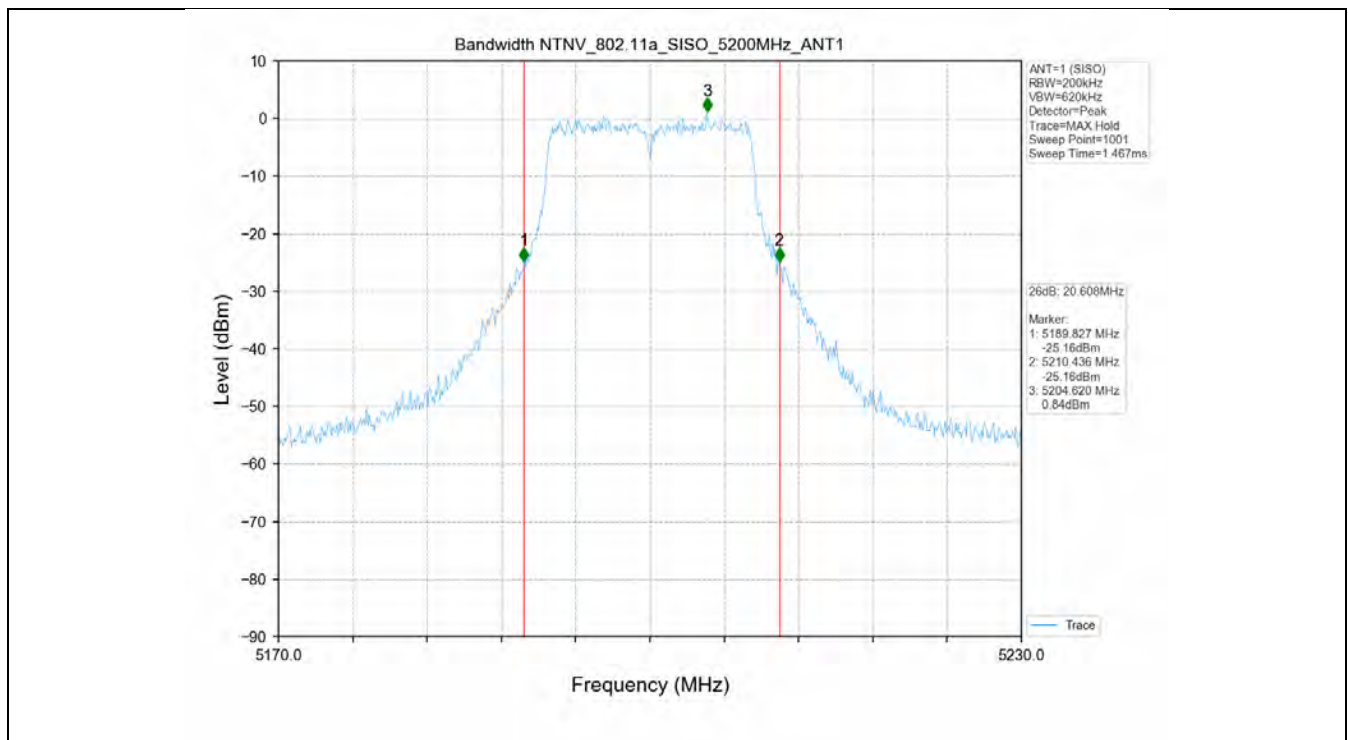
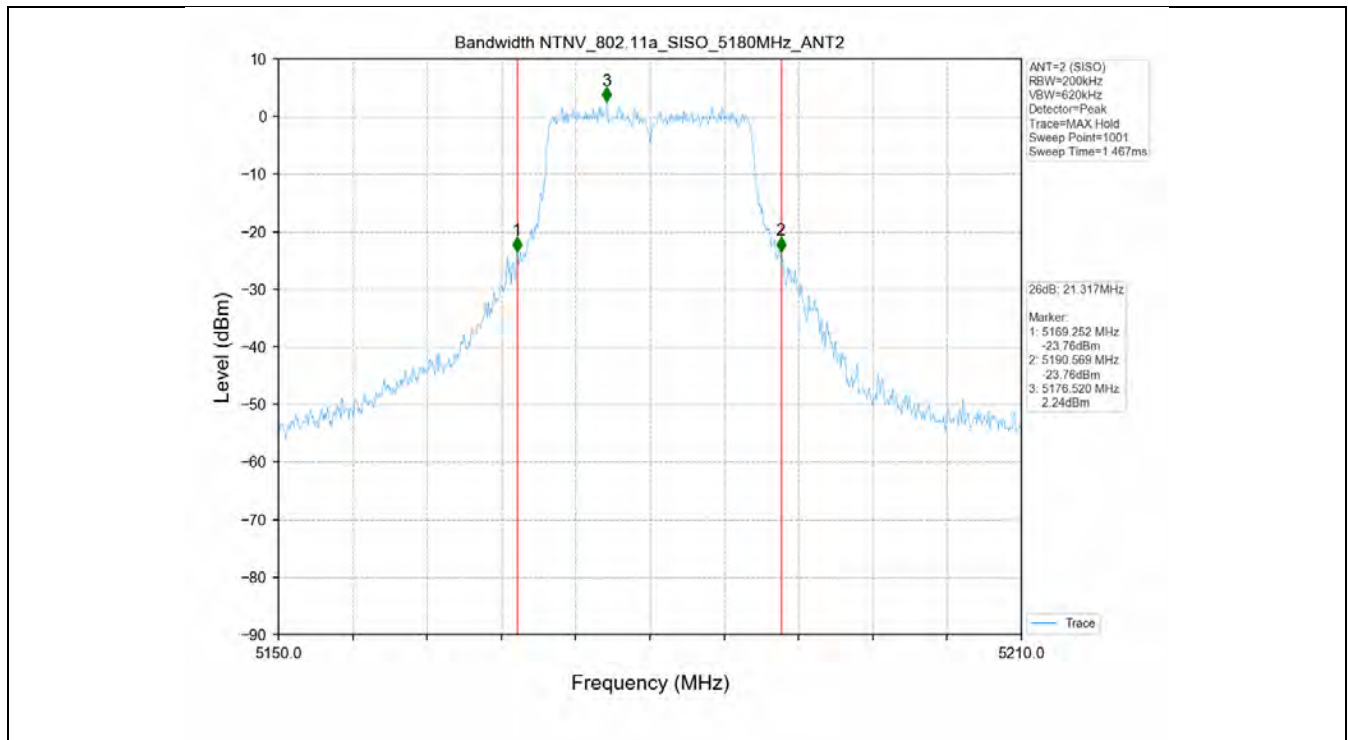
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11a	5180	SISO	1	16.721	Only for Report Use
			2	16.696	Only for Report Use
	5200	SISO	1	16.681	Only for Report Use
			2	16.706	Only for Report Use
	5240	SISO	1	16.755	Only for Report Use
			2	16.698	Only for Report Use
	5745	SISO	1	16.683	Only for Report Use
			2	16.716	Only for Report Use
	5785	SISO	1	16.778	Only for Report Use
			2	16.710	Only for Report Use
	5825	SISO	1	16.761	Only for Report Use
			2	16.708	Only for Report Use
802.11n(HT20)	5180	MIMO	1	17.909	Only for Report Use
			2	17.897	Only for Report Use
	5200	MIMO	1	17.862	Only for Report Use
			2	17.848	Only for Report Use
	5240	MIMO	1	17.850	Only for Report Use
			2	17.841	Only for Report Use
	5745	MIMO	1	17.906	Only for Report Use
			2	17.862	Only for Report Use
	5785	MIMO	1	17.893	Only for Report Use
			2	17.830	Only for Report Use
	5825	MIMO	1	17.913	Only for Report Use
			2	17.882	Only for Report Use
802.11n(HT40)	5190	MIMO	1	36.756	Only for Report Use
			2	36.751	Only for Report Use
	5230	MIMO	1	36.677	Only for Report Use
			2	36.815	Only for Report Use
	5755	MIMO	1	36.701	Only for Report Use
			2	36.816	Only for Report Use
	5795	MIMO	1	36.816	Only for Report Use
			2	36.733	Only for Report Use
802.11ac(VHT20)	5180	MIMO	1	17.840	Only for Report Use
			2	17.888	Only for Report Use
	5200	MIMO	1	17.869	Only for Report Use
			2	17.894	Only for Report Use
	5240	MIMO	1	17.888	Only for Report Use
			2	17.867	Only for Report Use
	5745	MIMO	1	17.948	Only for Report Use
			2	17.865	Only for Report Use
	5785	MIMO	1	17.944	Only for Report Use
			2	17.906	Only for Report Use
	5825	MIMO	1	17.898	Only for Report Use
			2	17.874	Only for Report Use

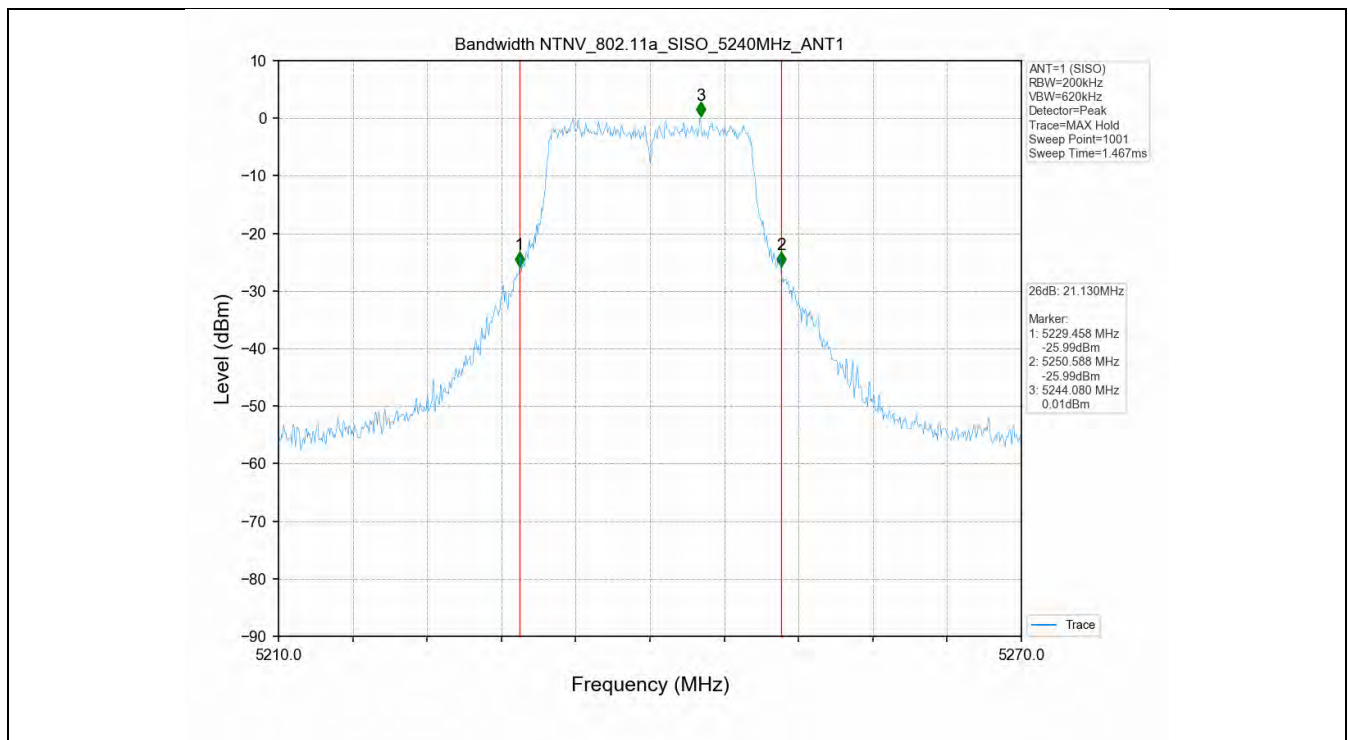
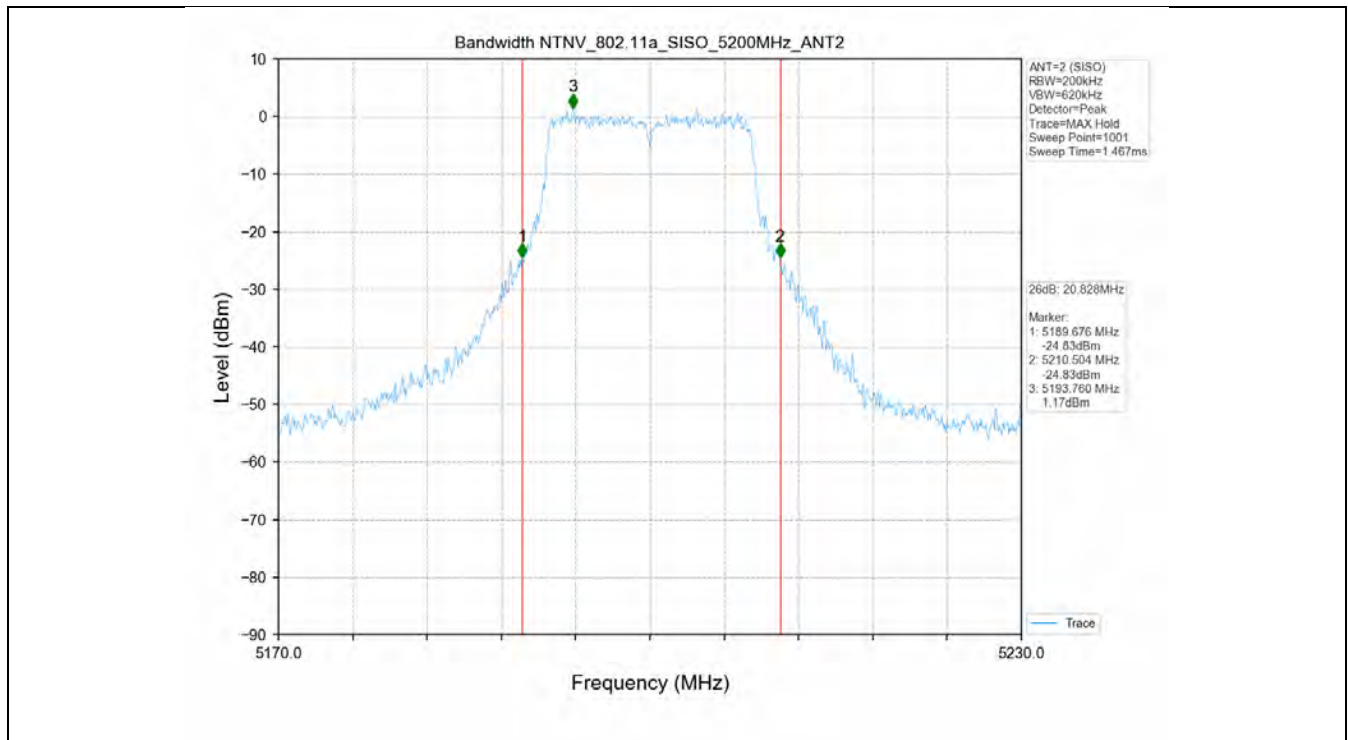


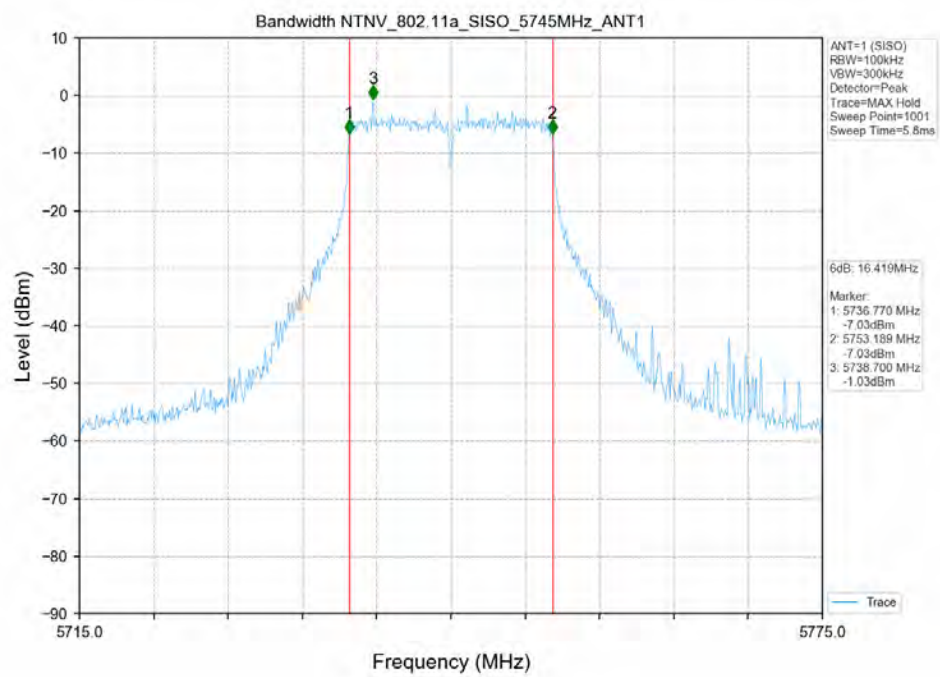
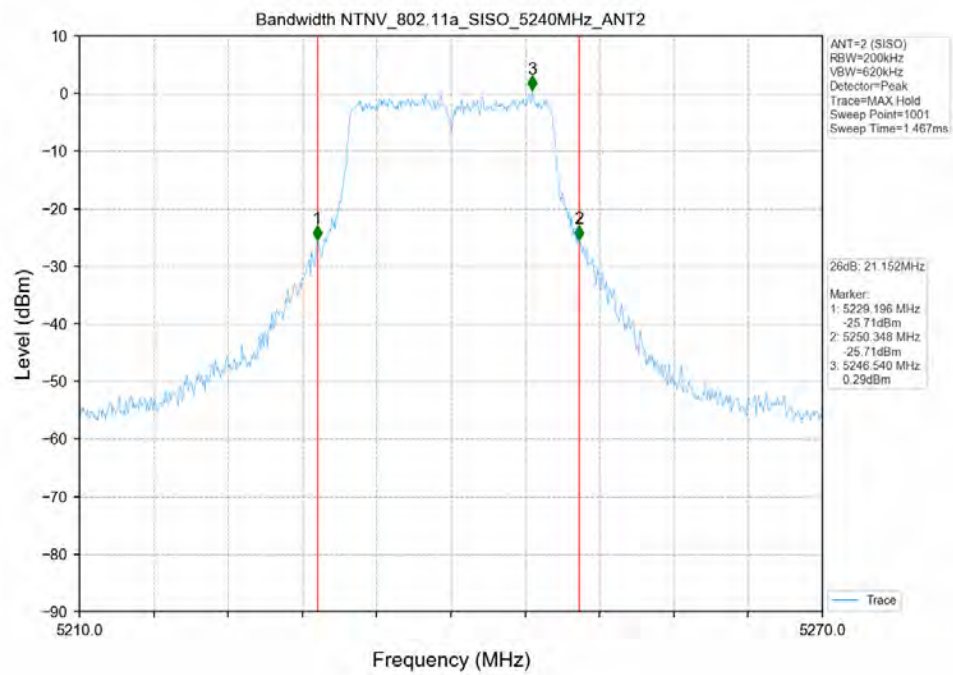
802.11ac(VHT40)	5190	MIMO	1	36.621	Only for Report Use
			2	36.779	Only for Report Use
	5230	MIMO	1	36.745	Only for Report Use
			2	36.863	Only for Report Use
	5755	MIMO	1	36.652	Only for Report Use
			2	36.858	Only for Report Use
802.11ac(VHT80)	5795	MIMO	1	36.803	Only for Report Use
			2	36.719	Only for Report Use
	5210	MIMO	1	75.826	Only for Report Use
			2	76.123	Only for Report Use
	5775	MIMO	1	75.839	Only for Report Use
			2	76.049	Only for Report Use

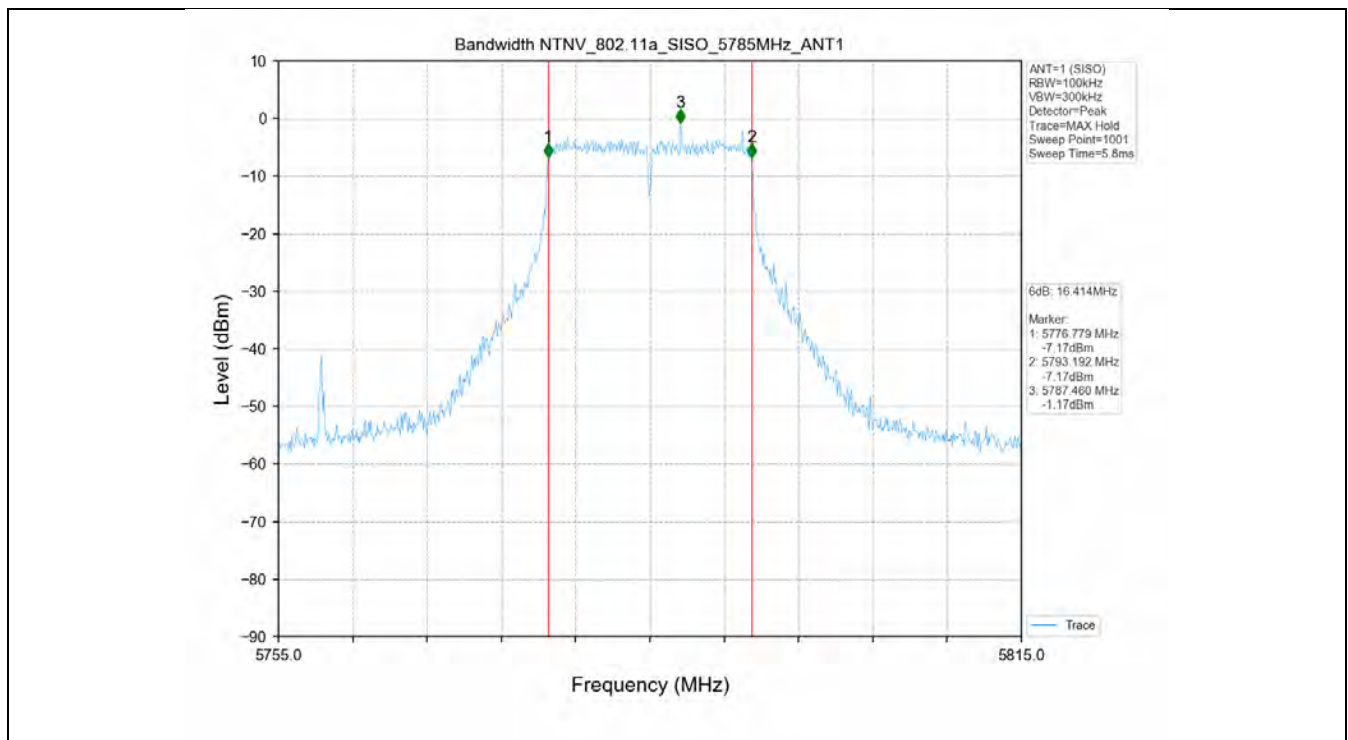
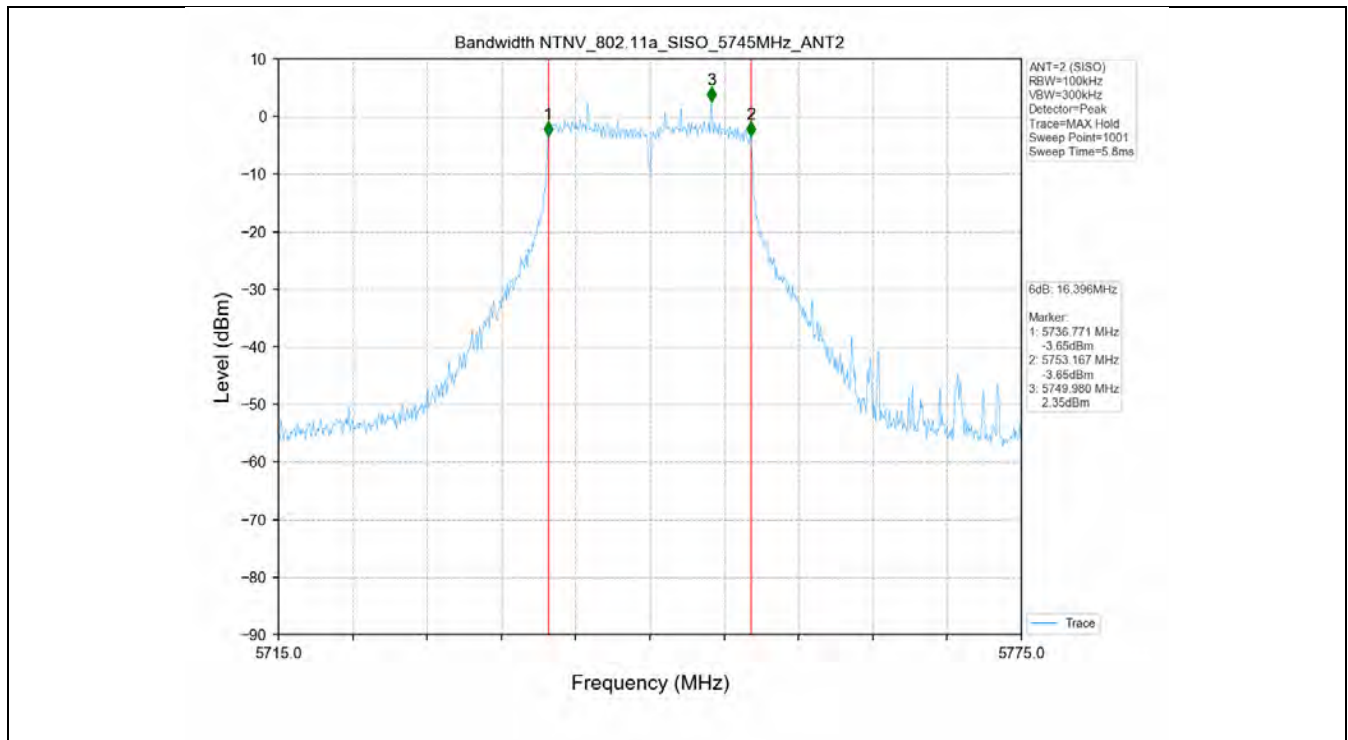
2.2 Test Graph - Emission Bandwidth

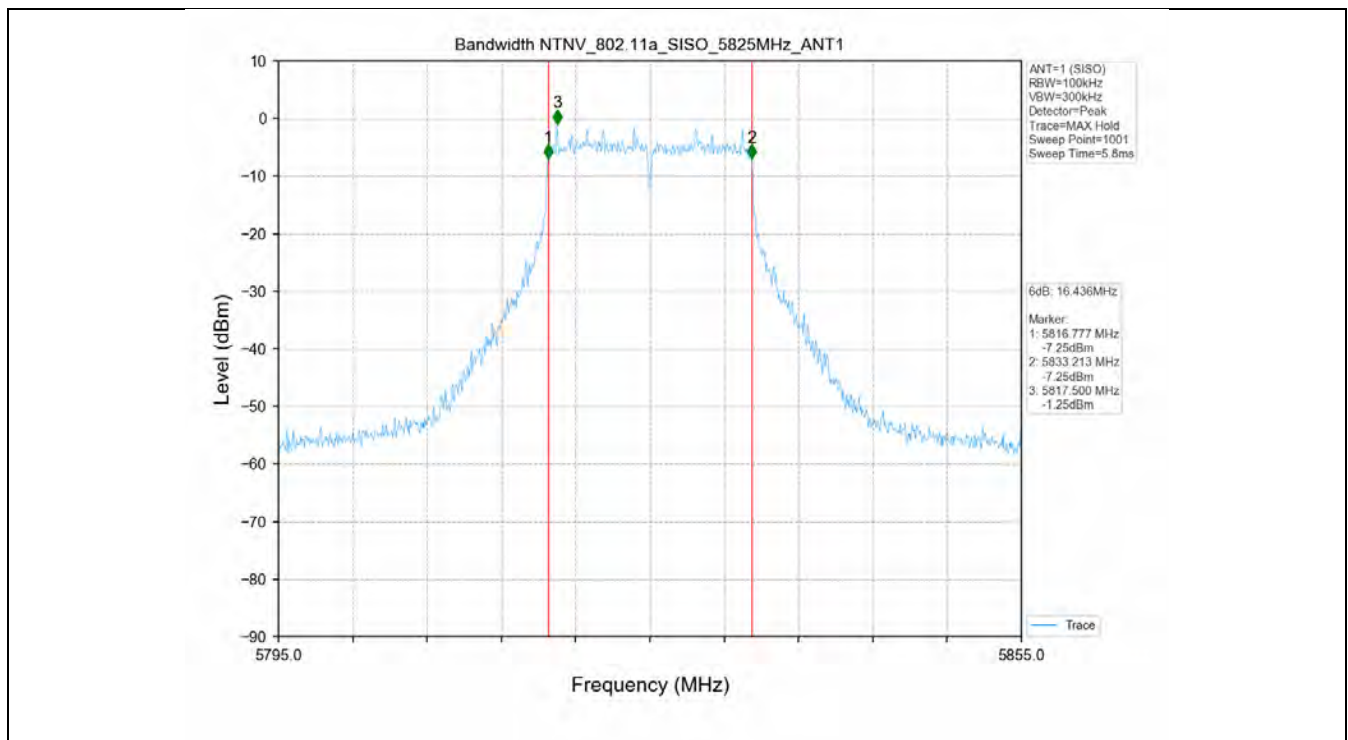
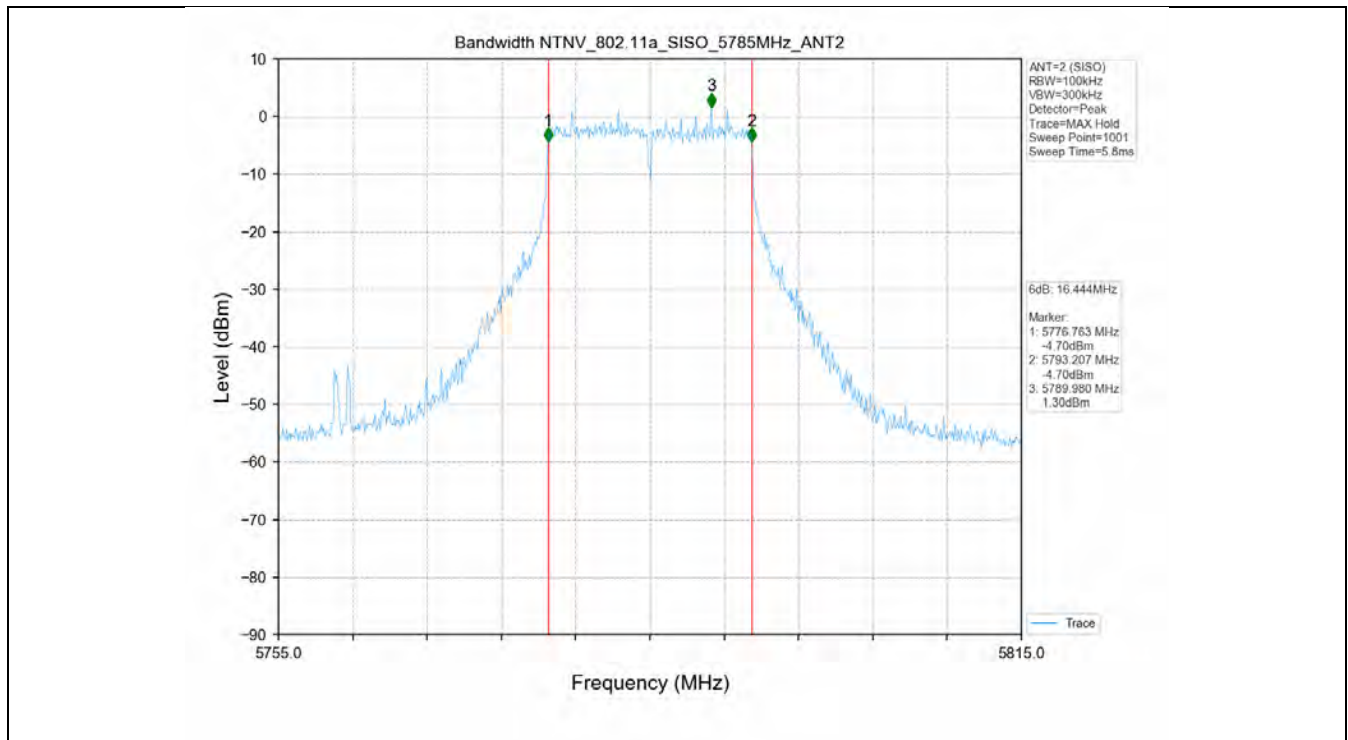


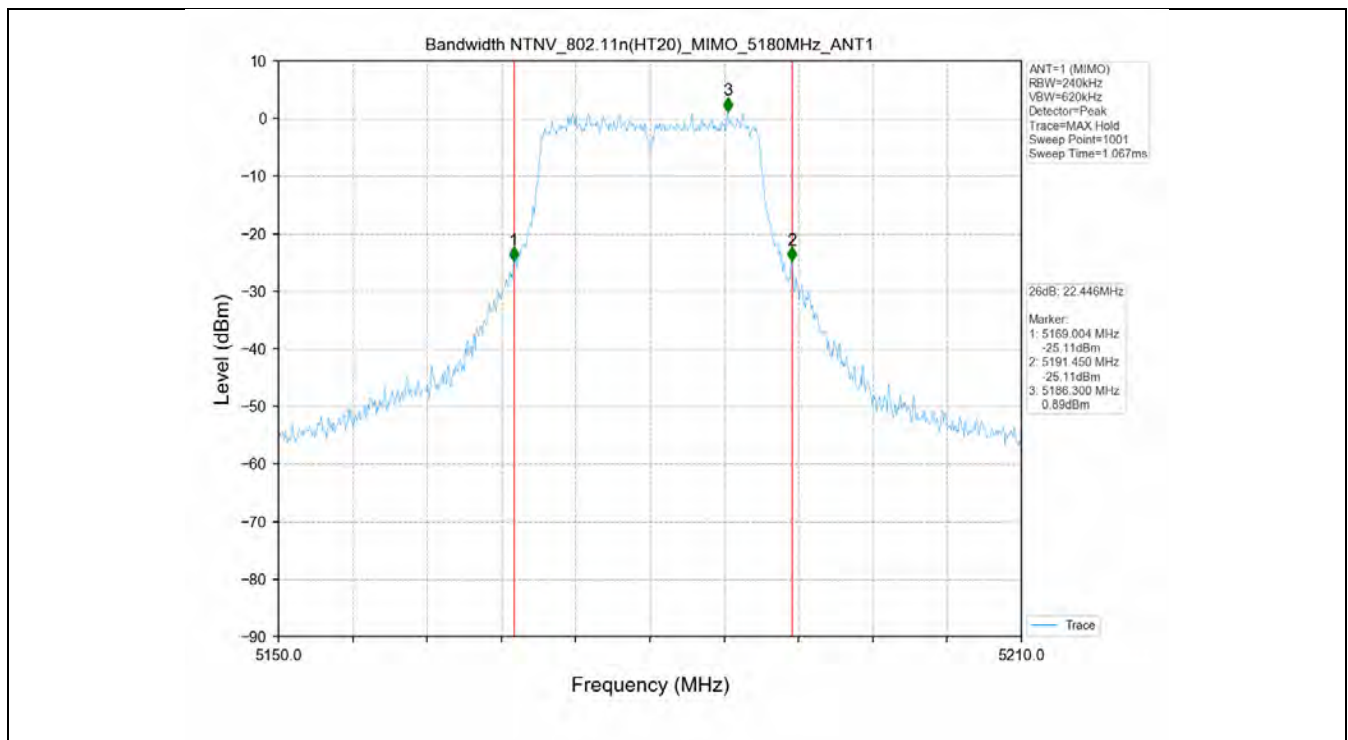
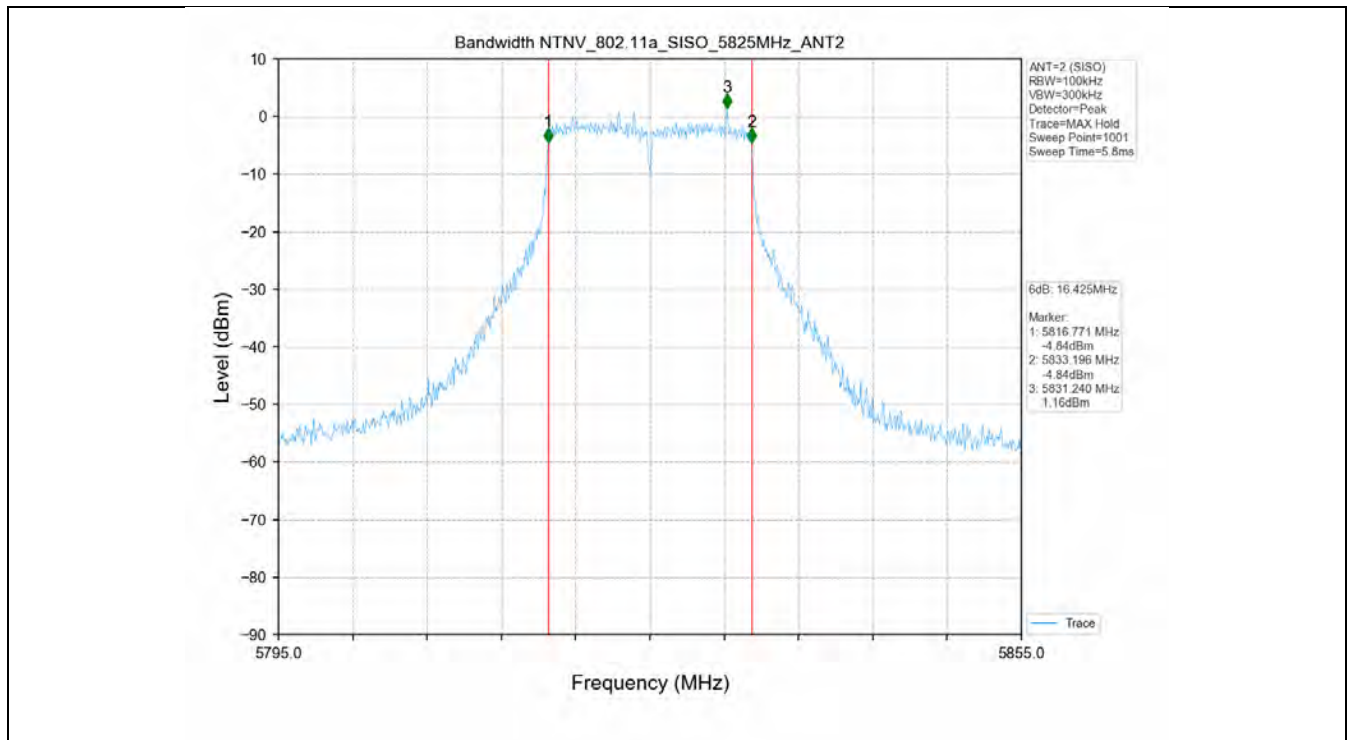


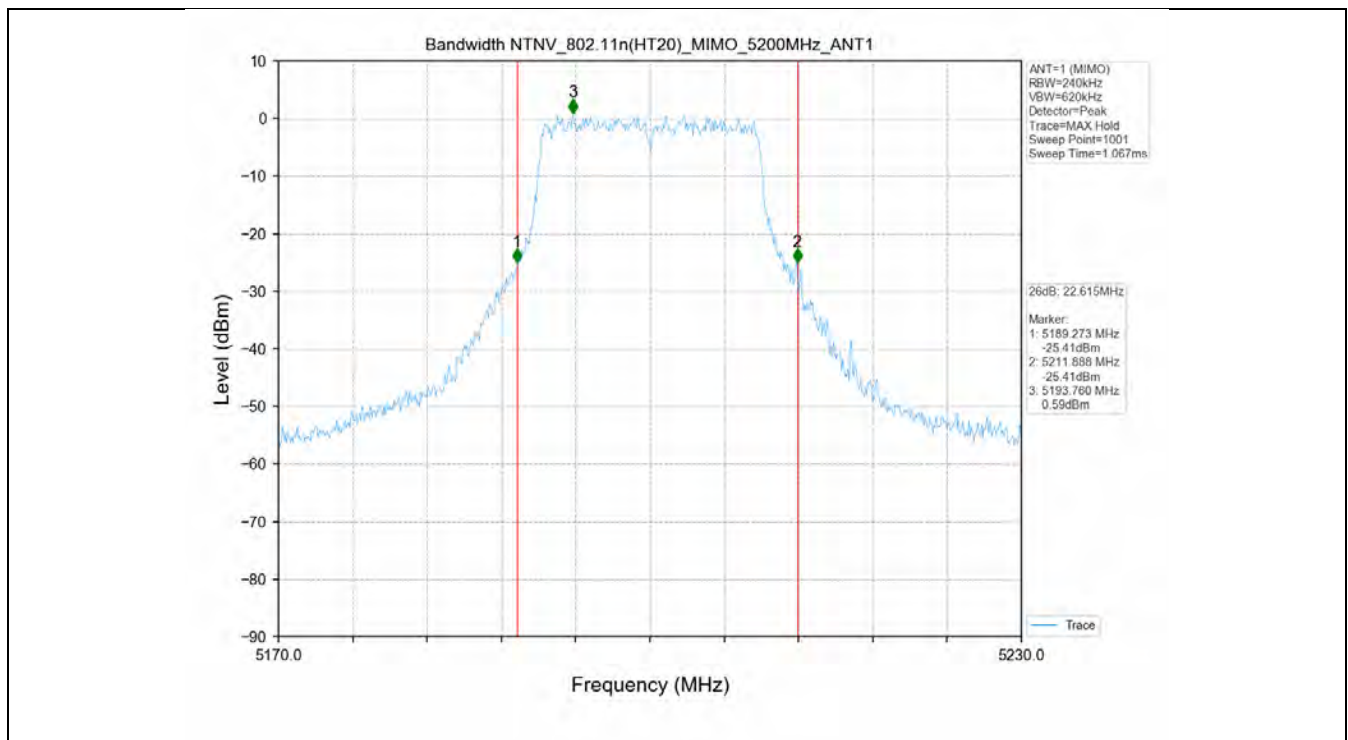
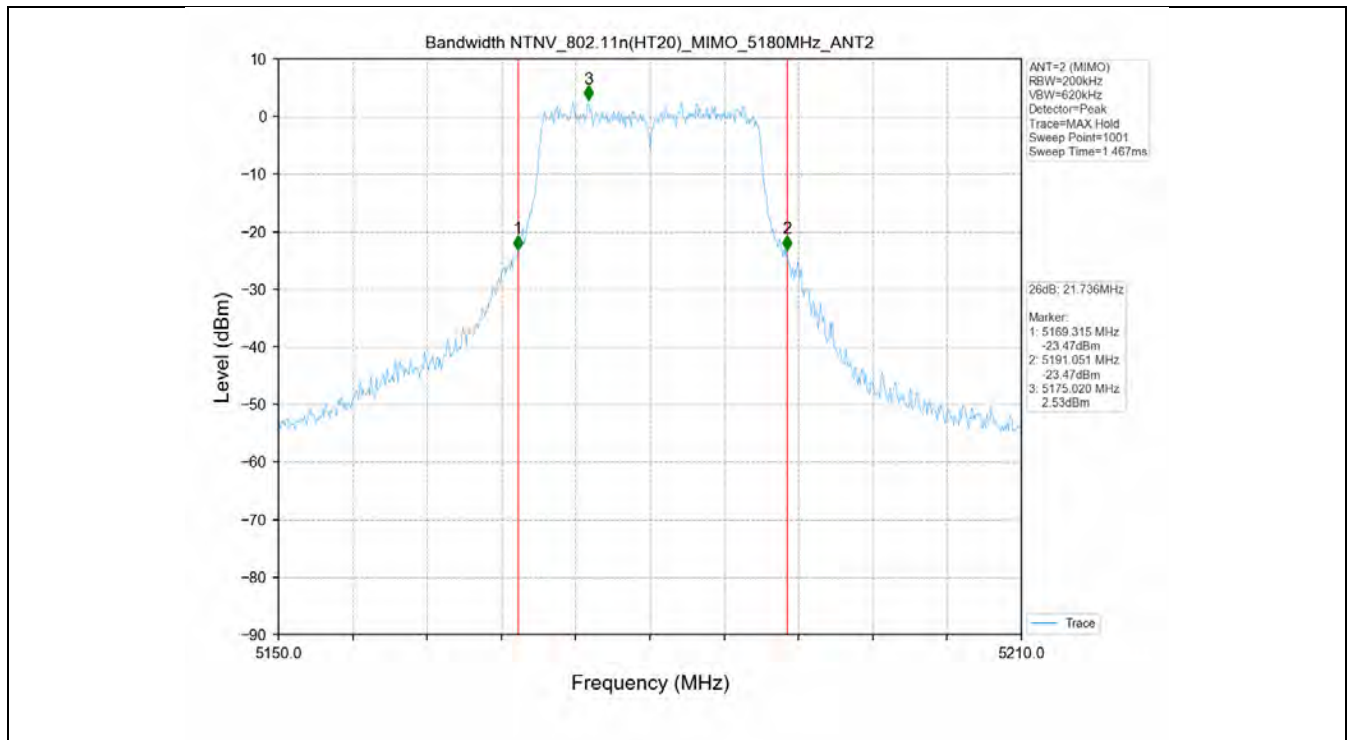


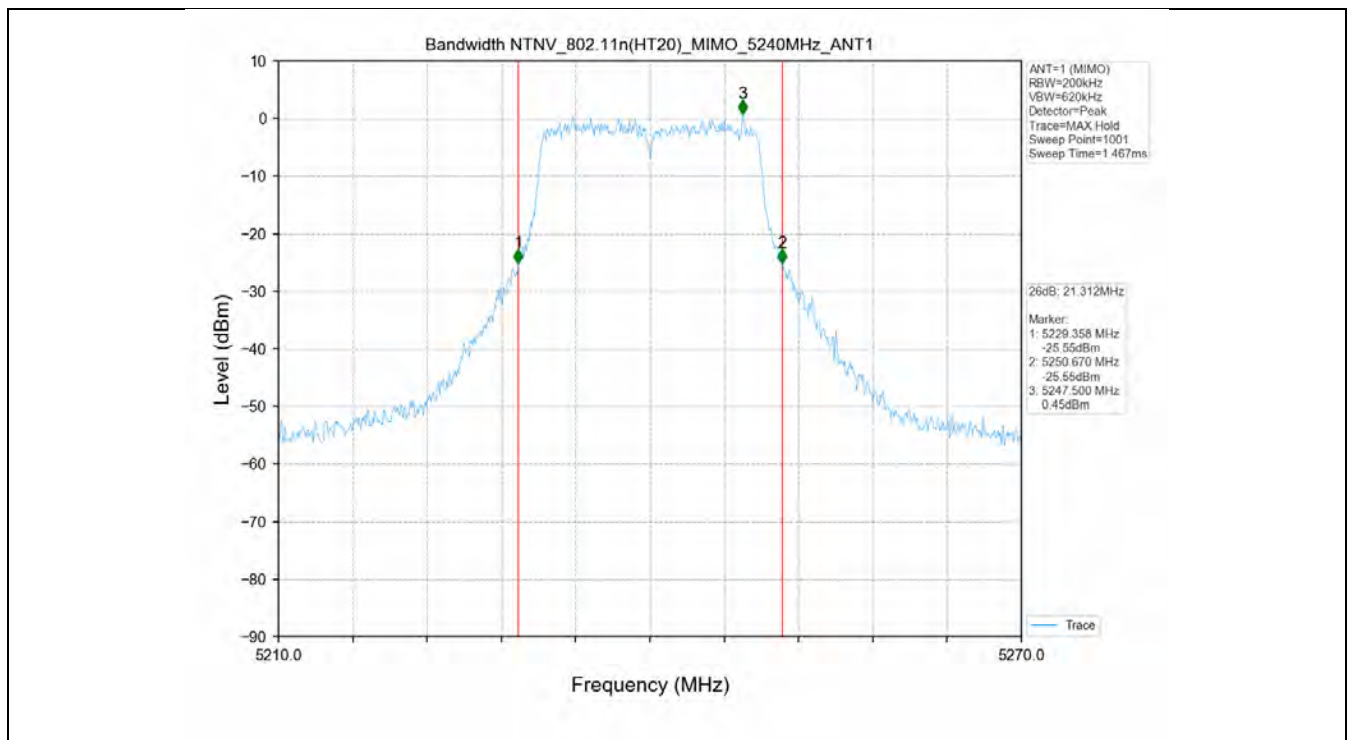
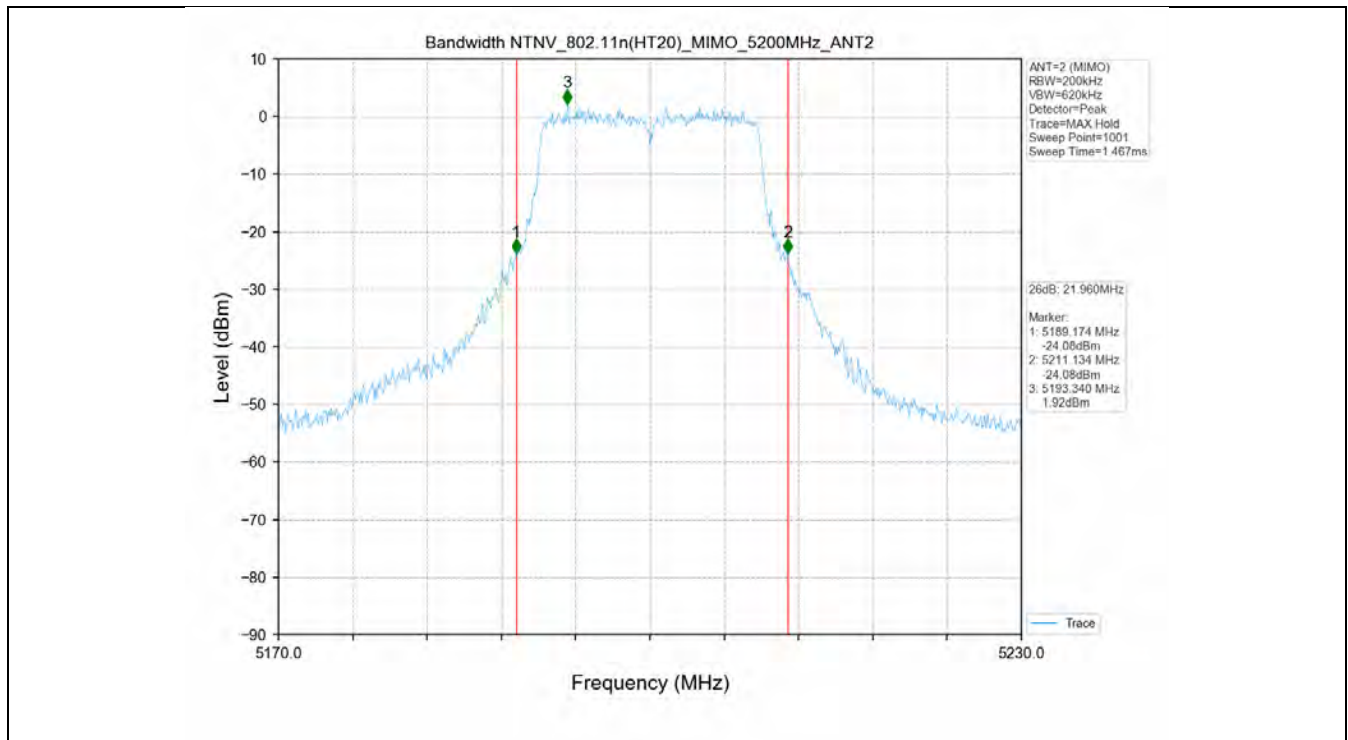


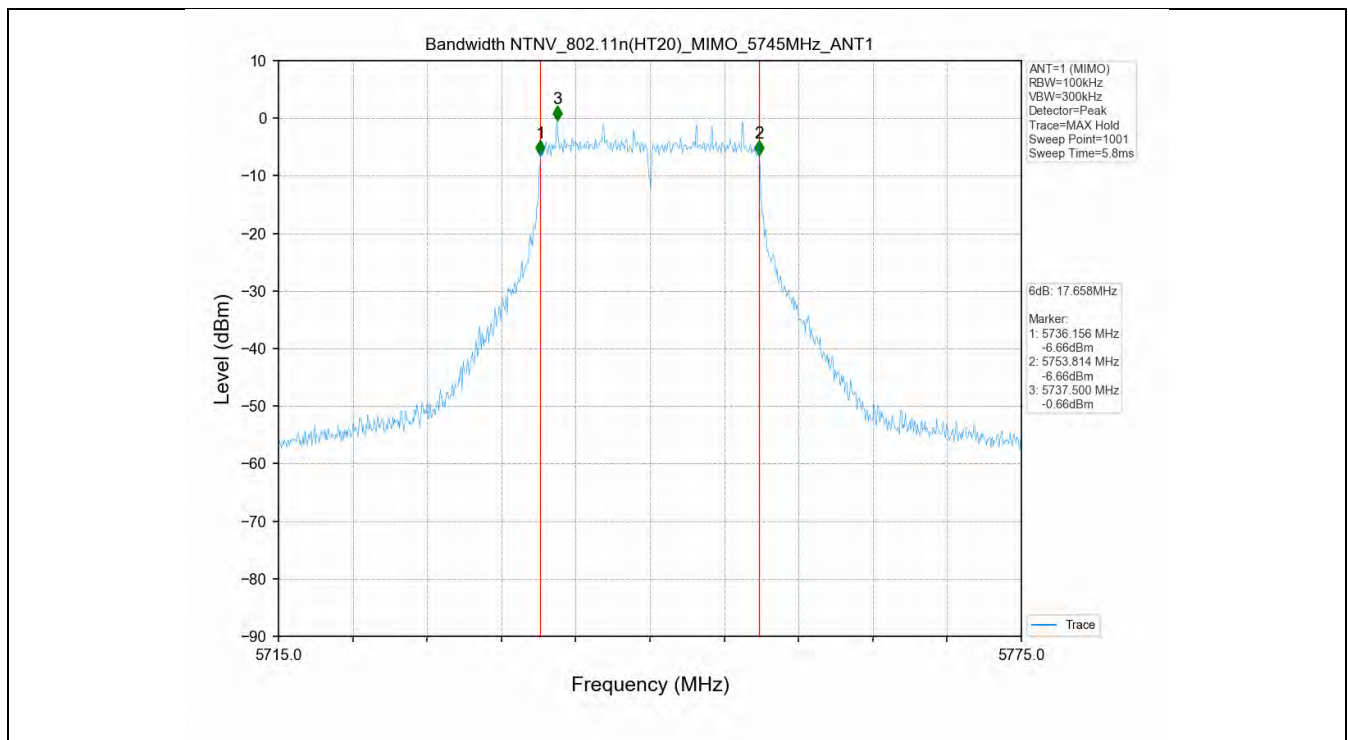
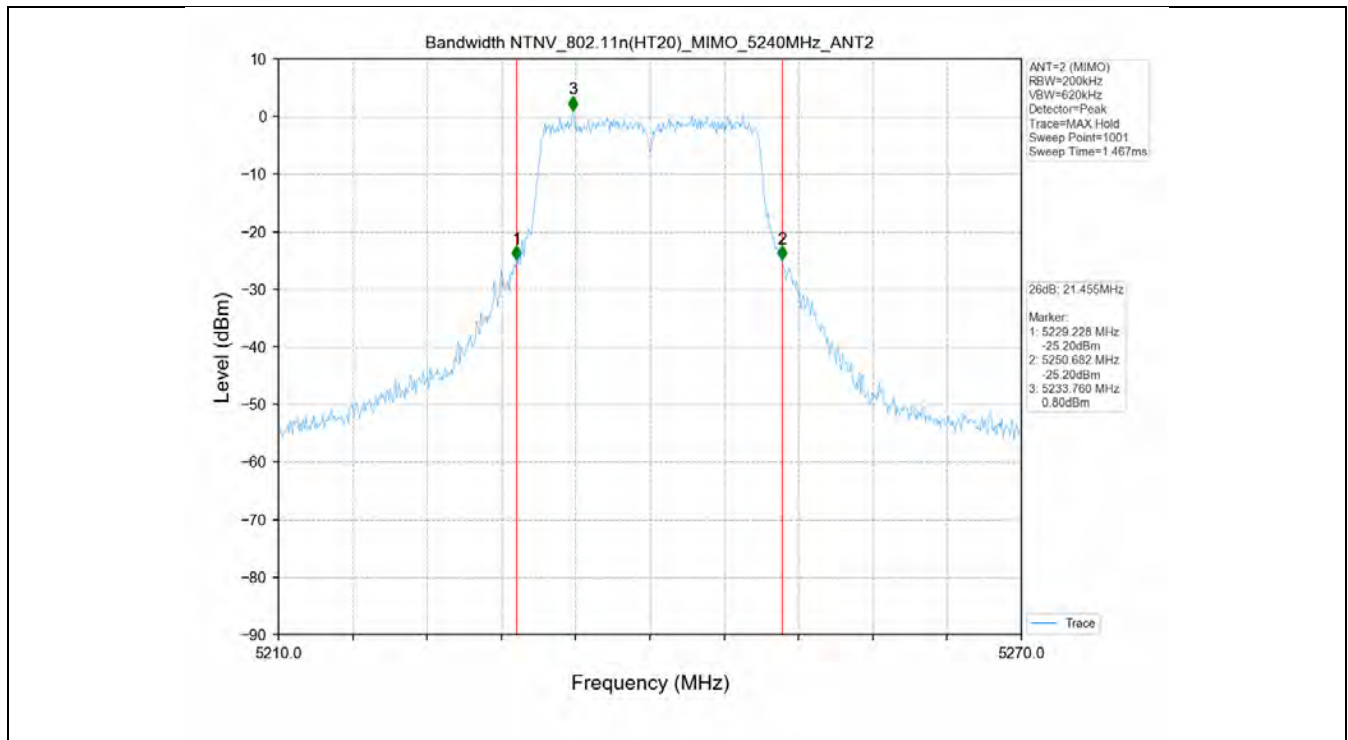


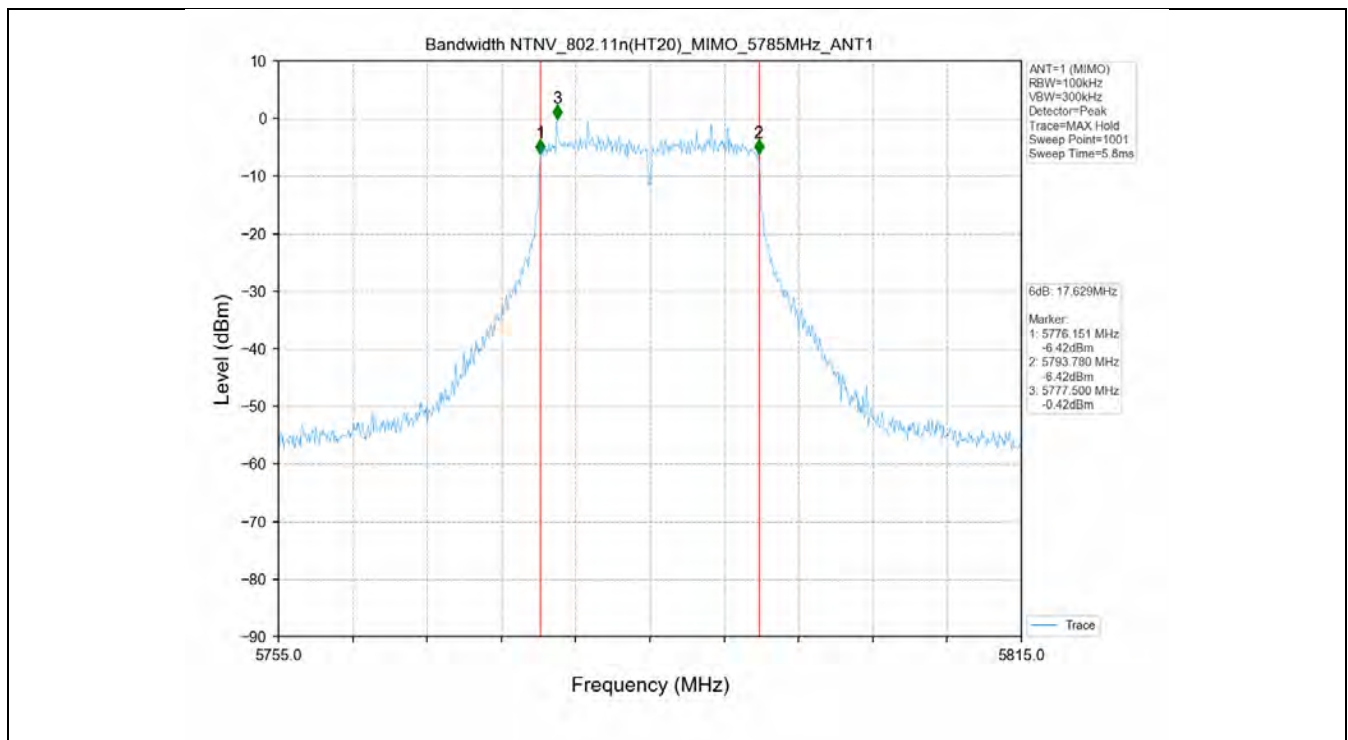
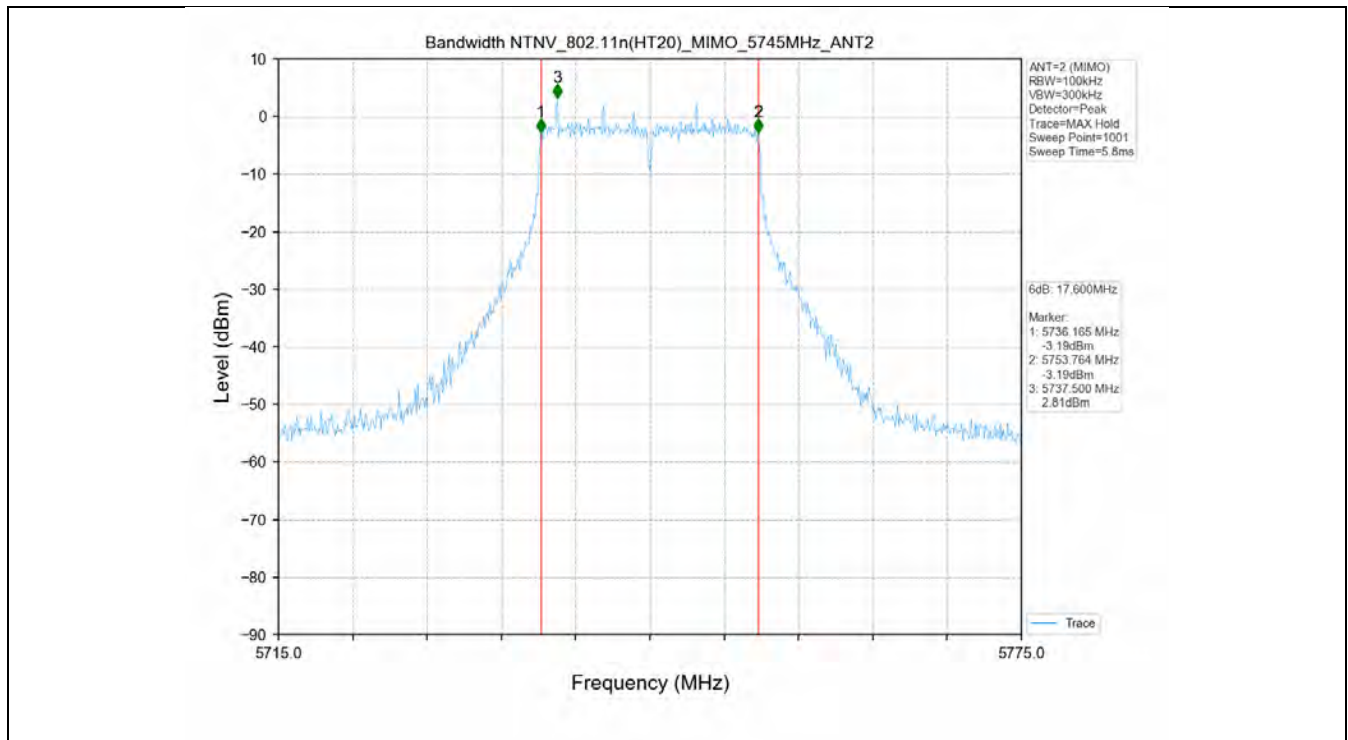


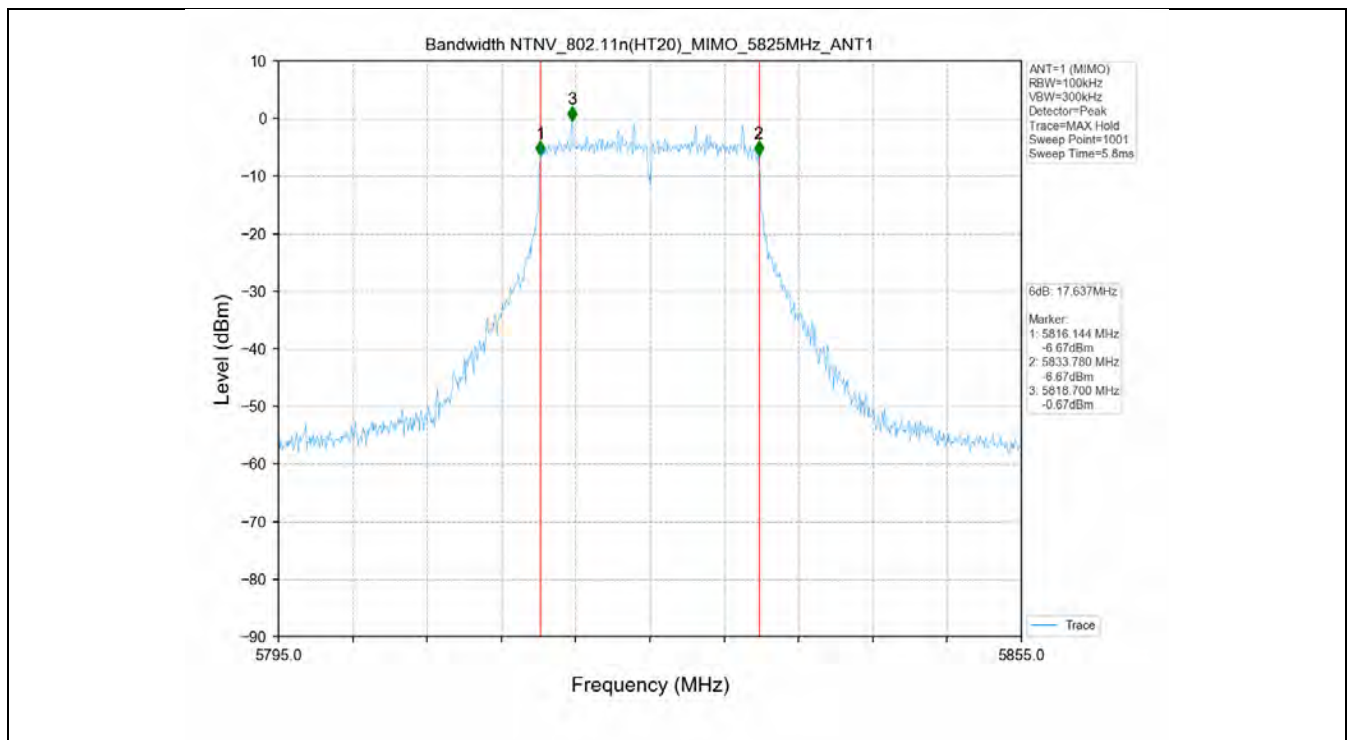
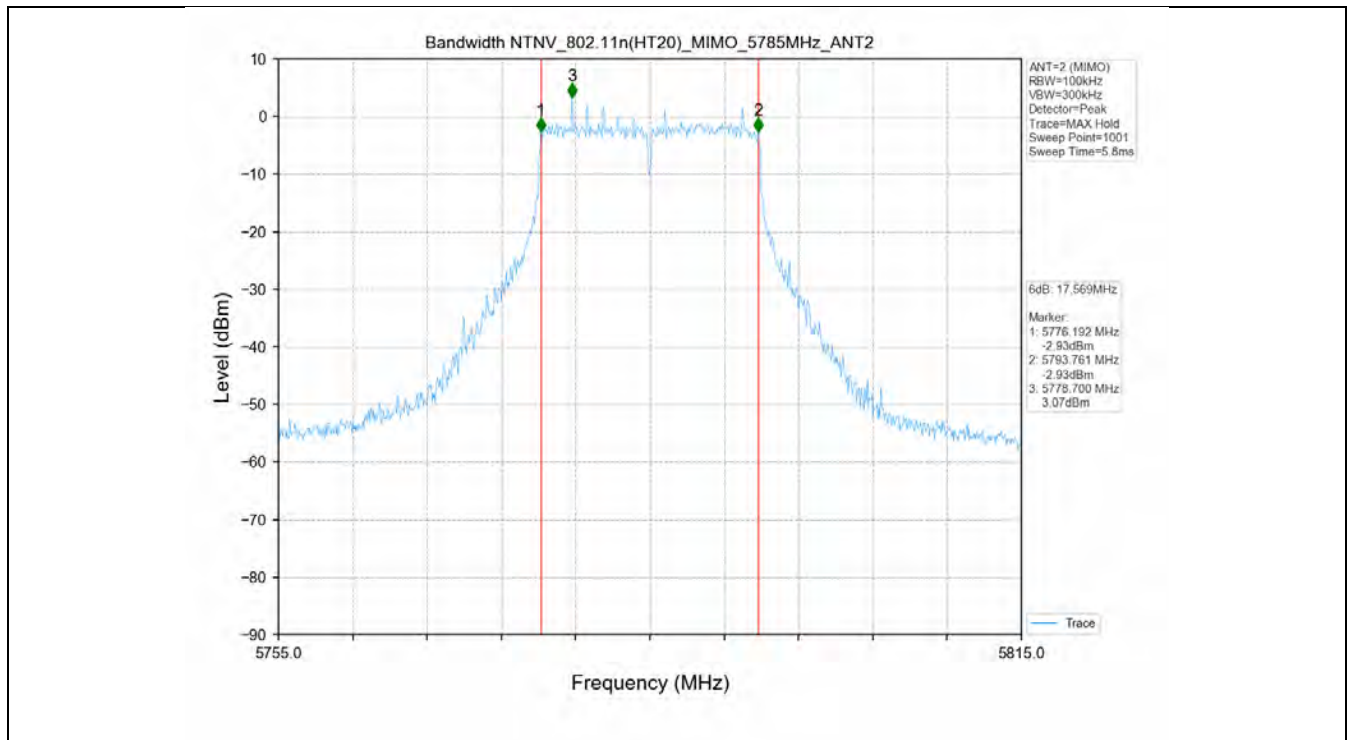


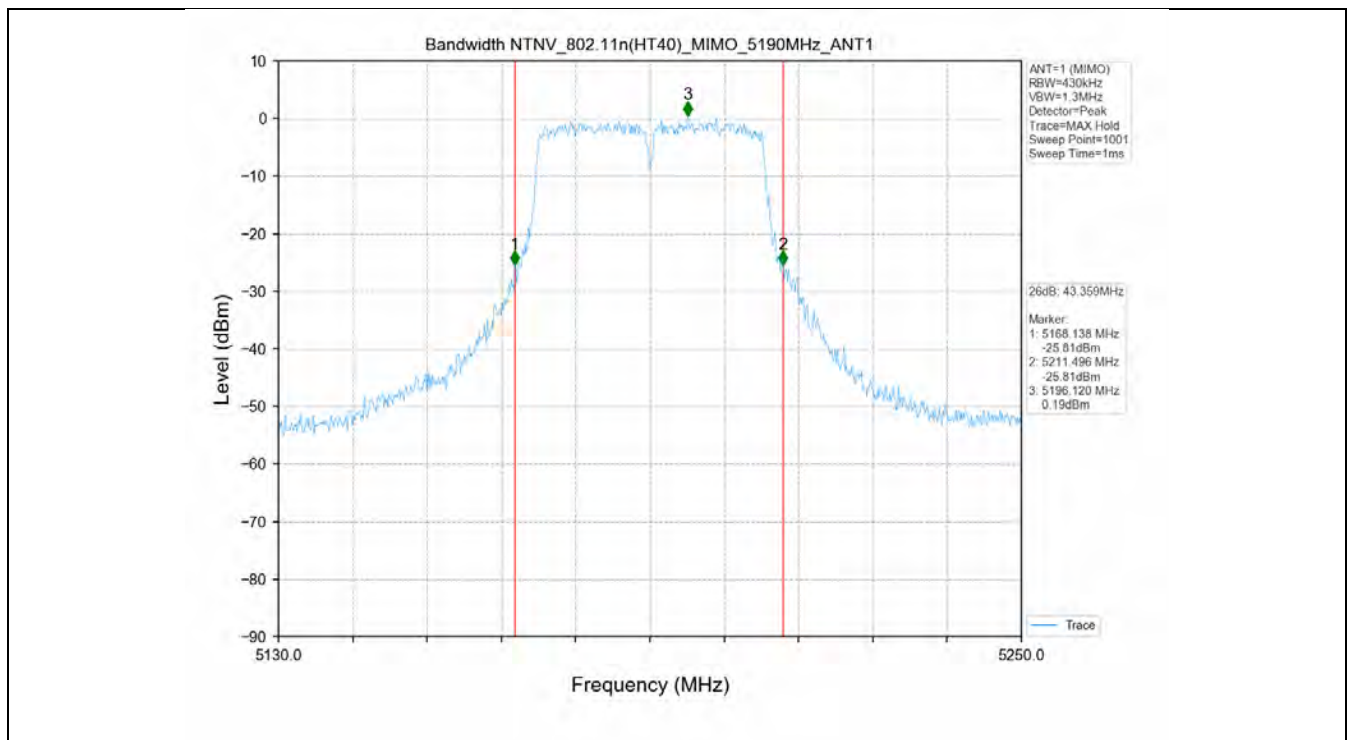
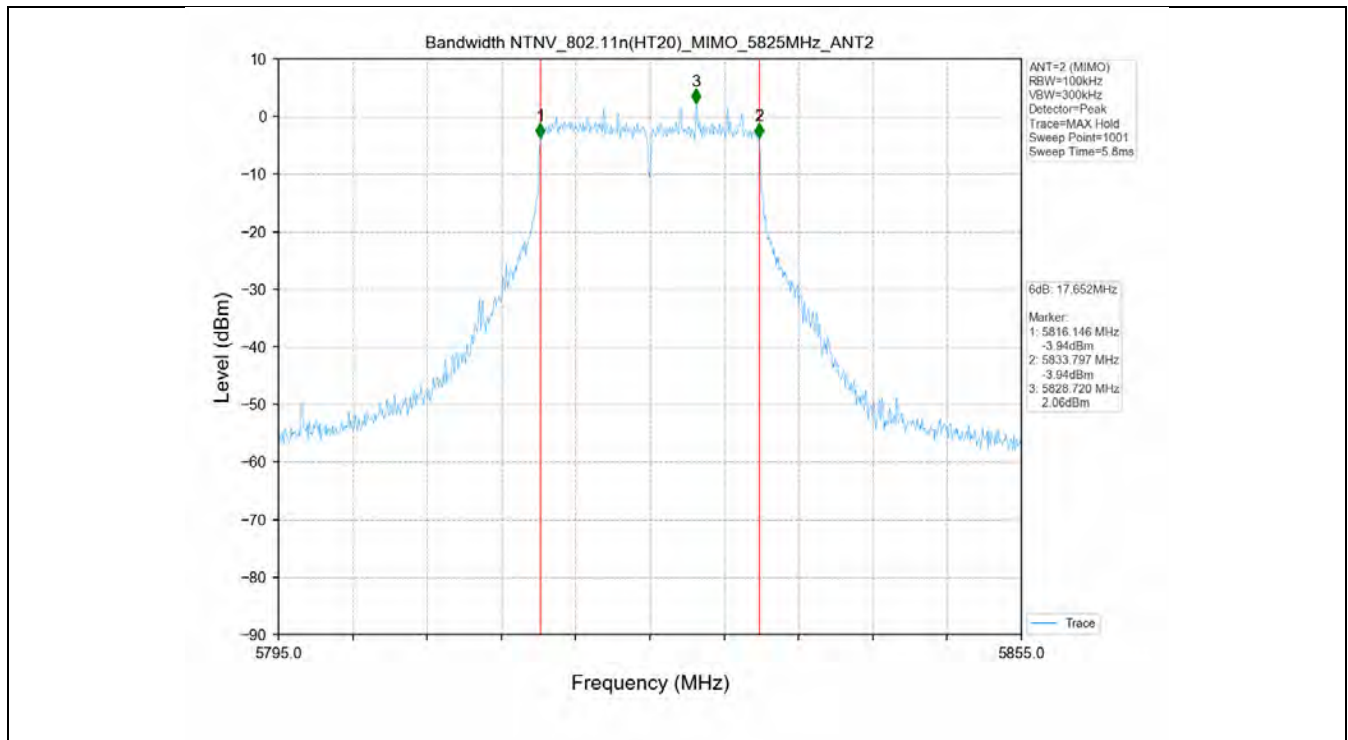


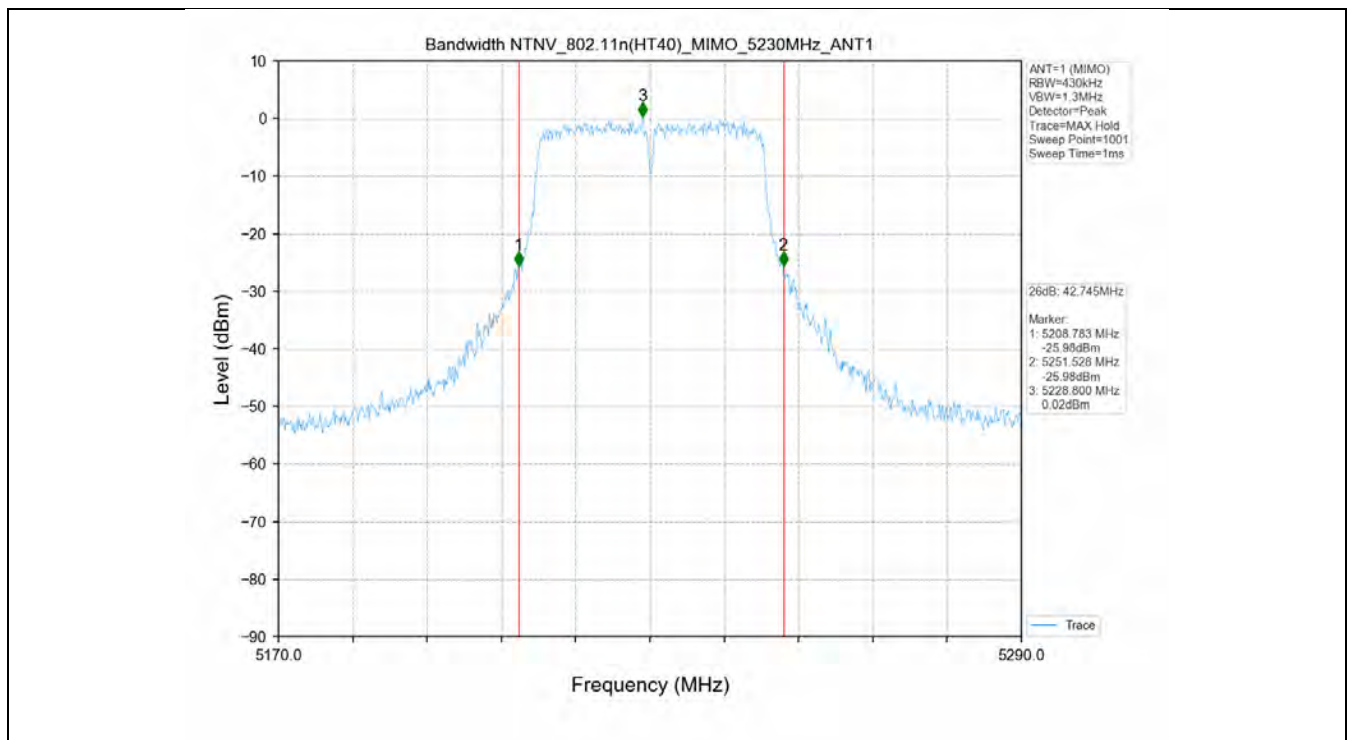
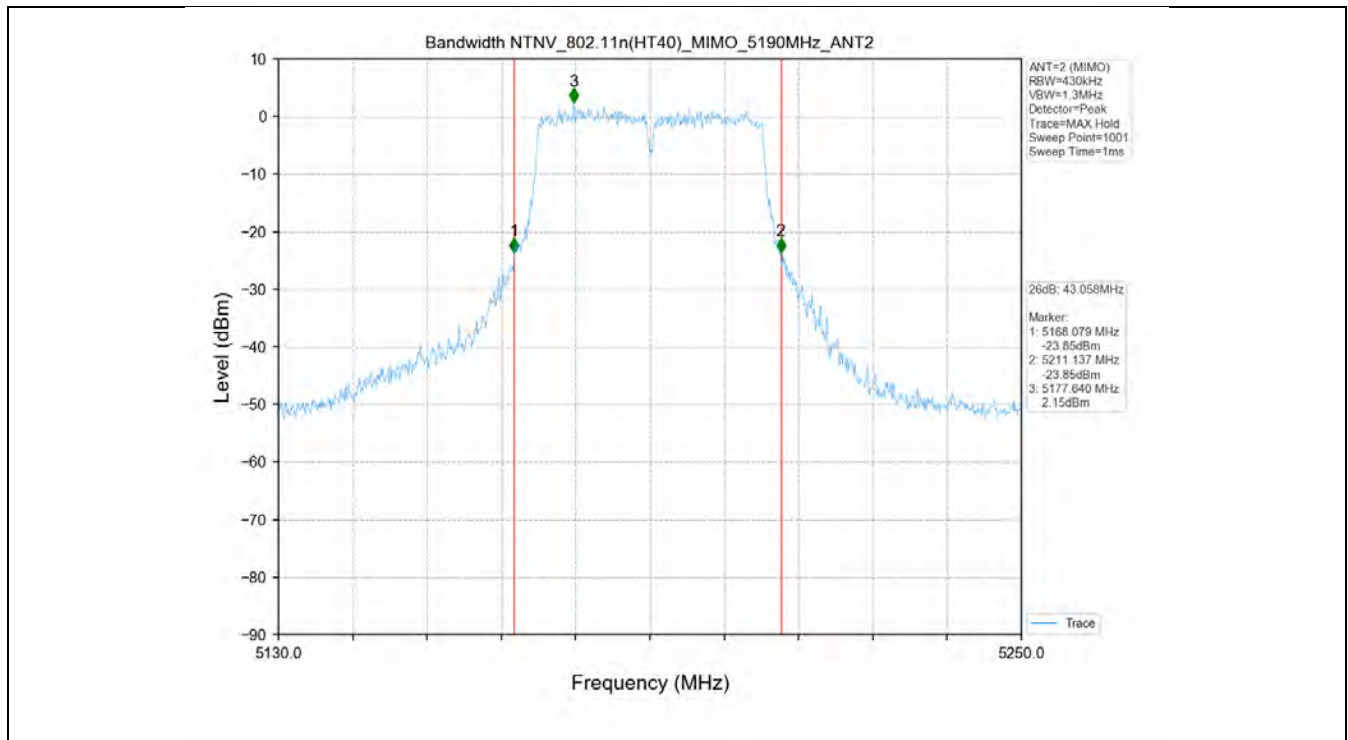


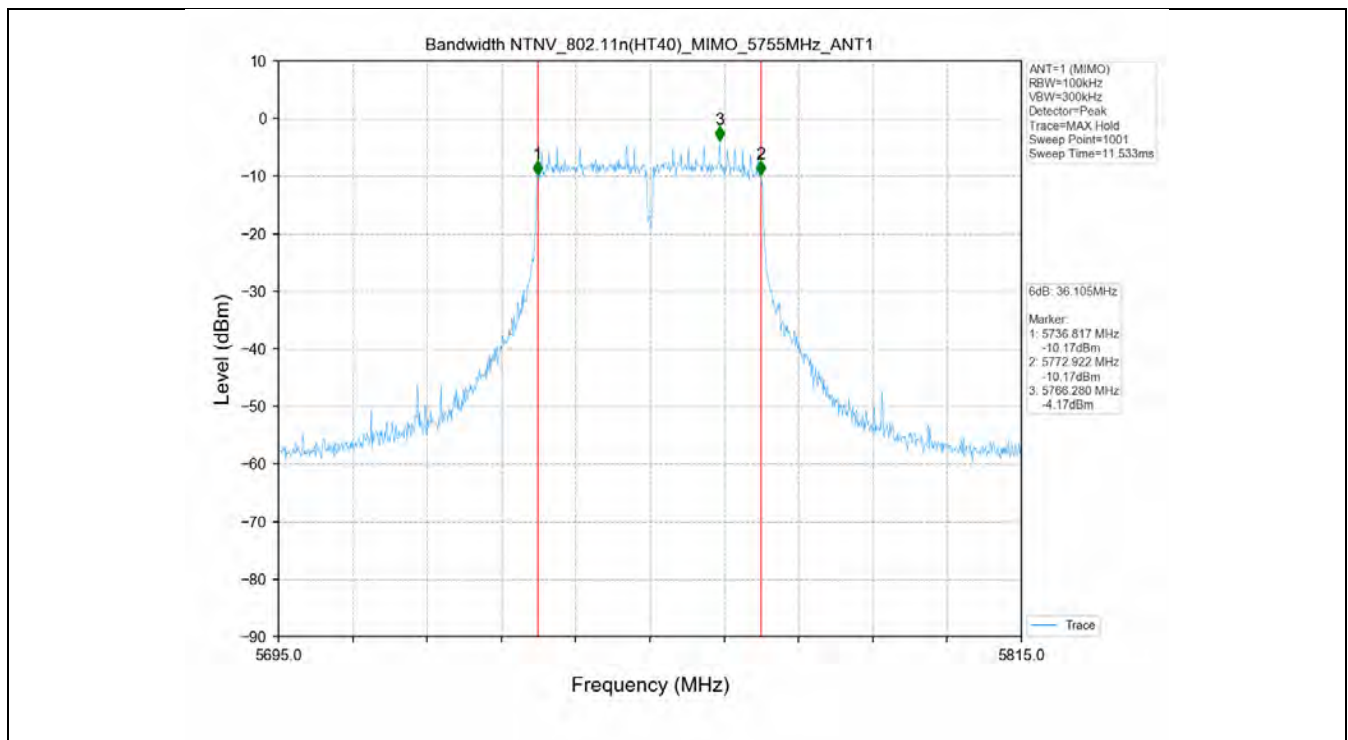
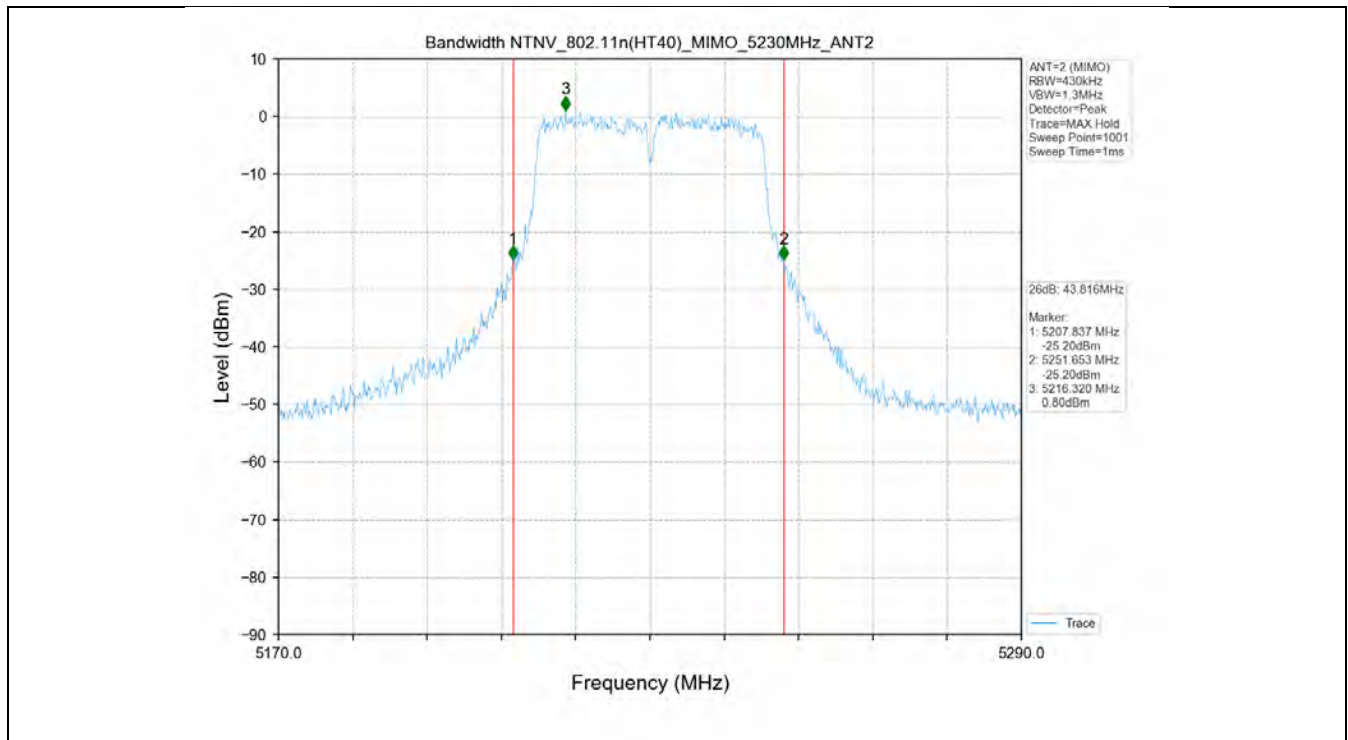


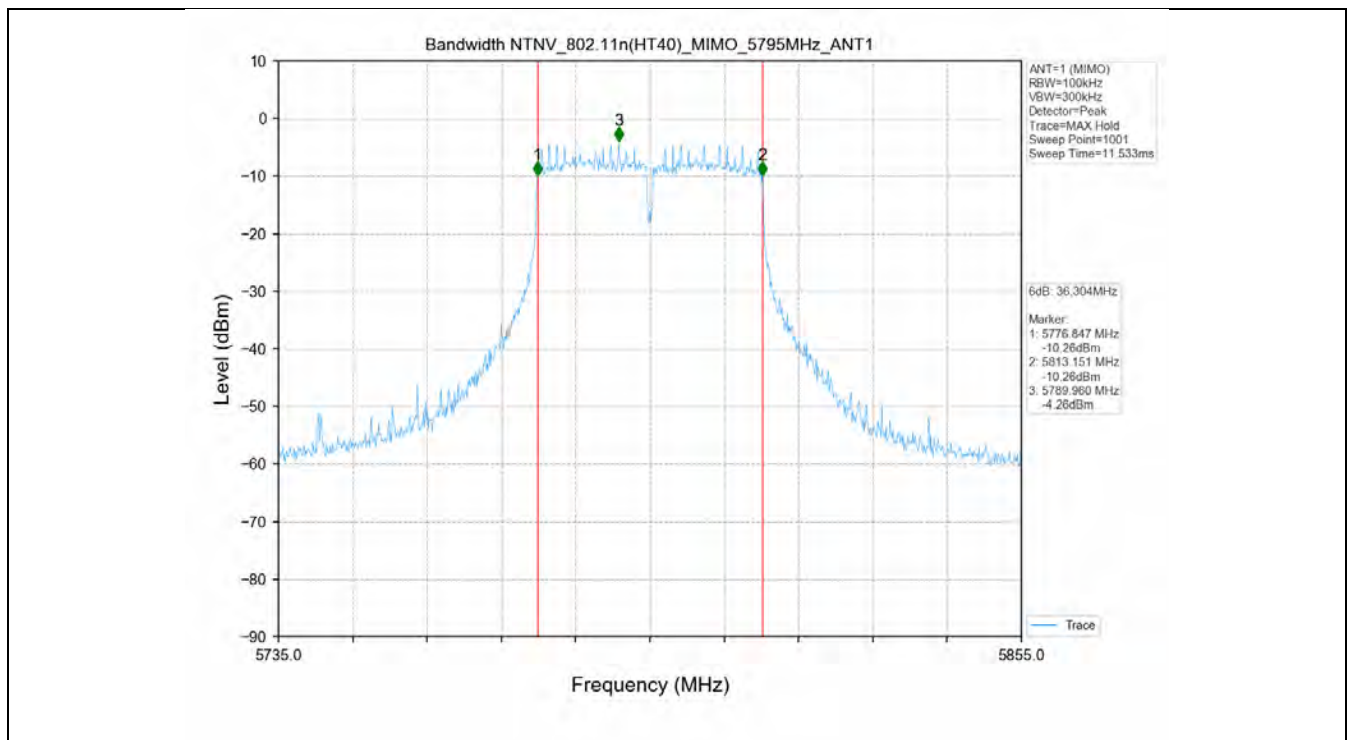
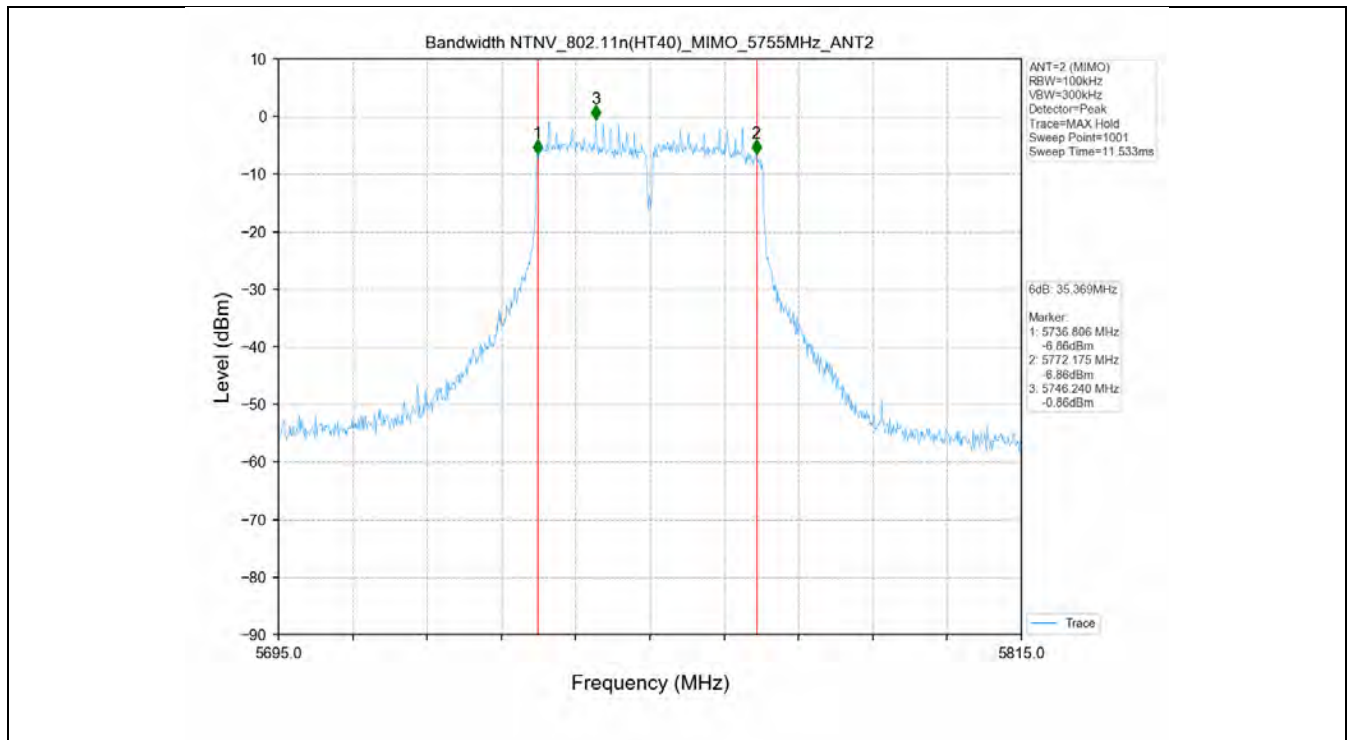


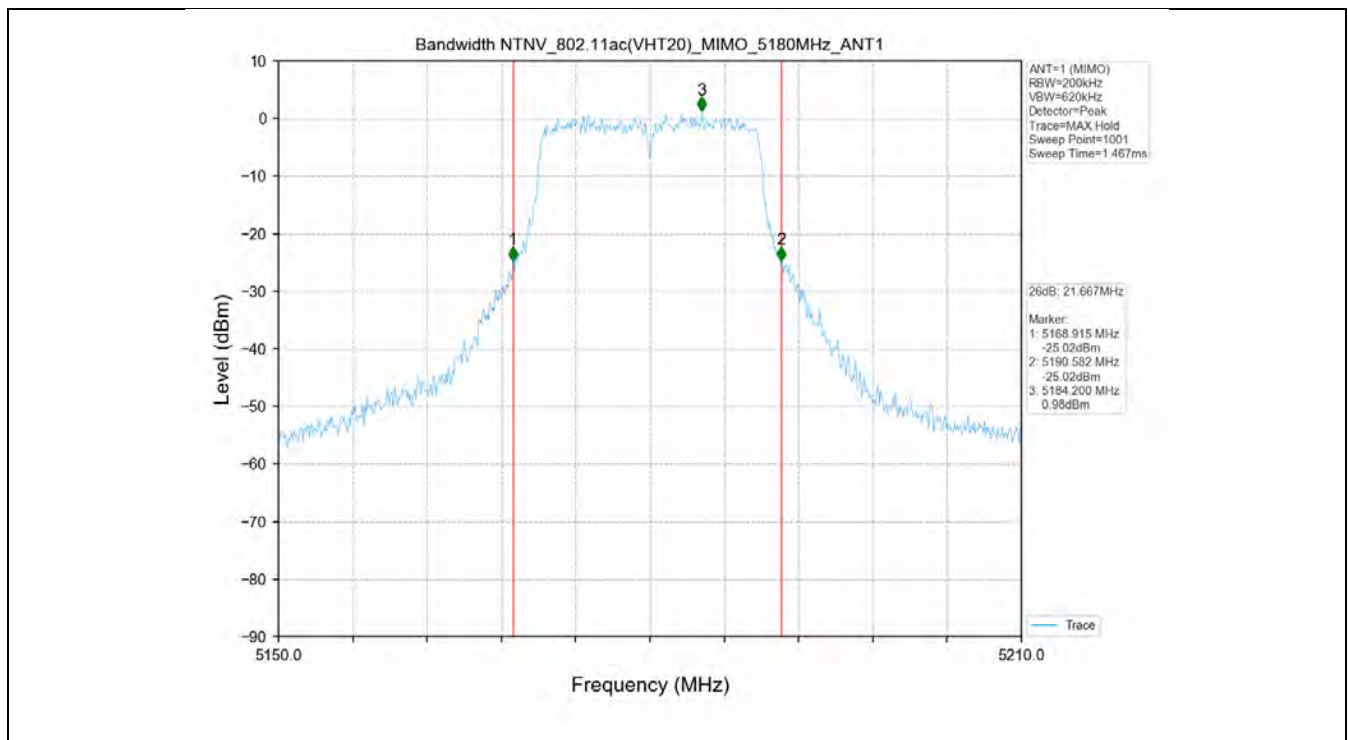
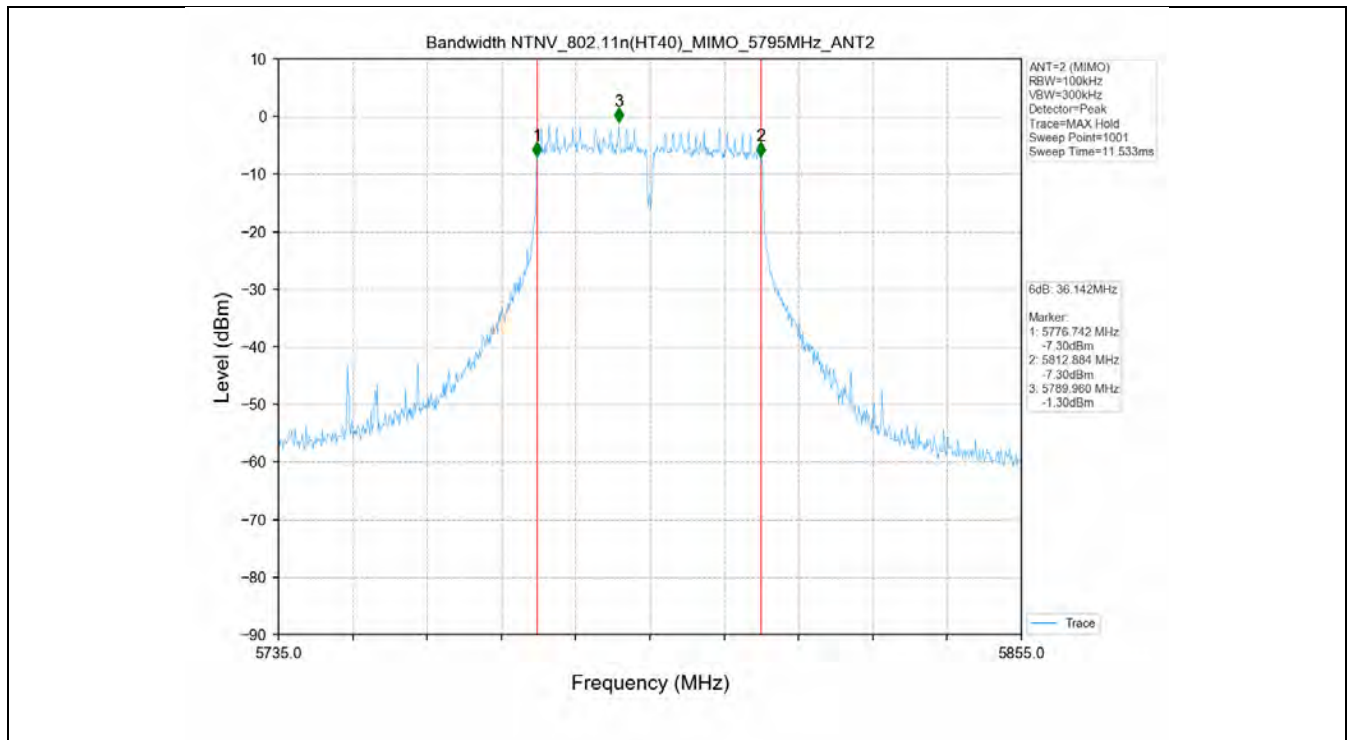


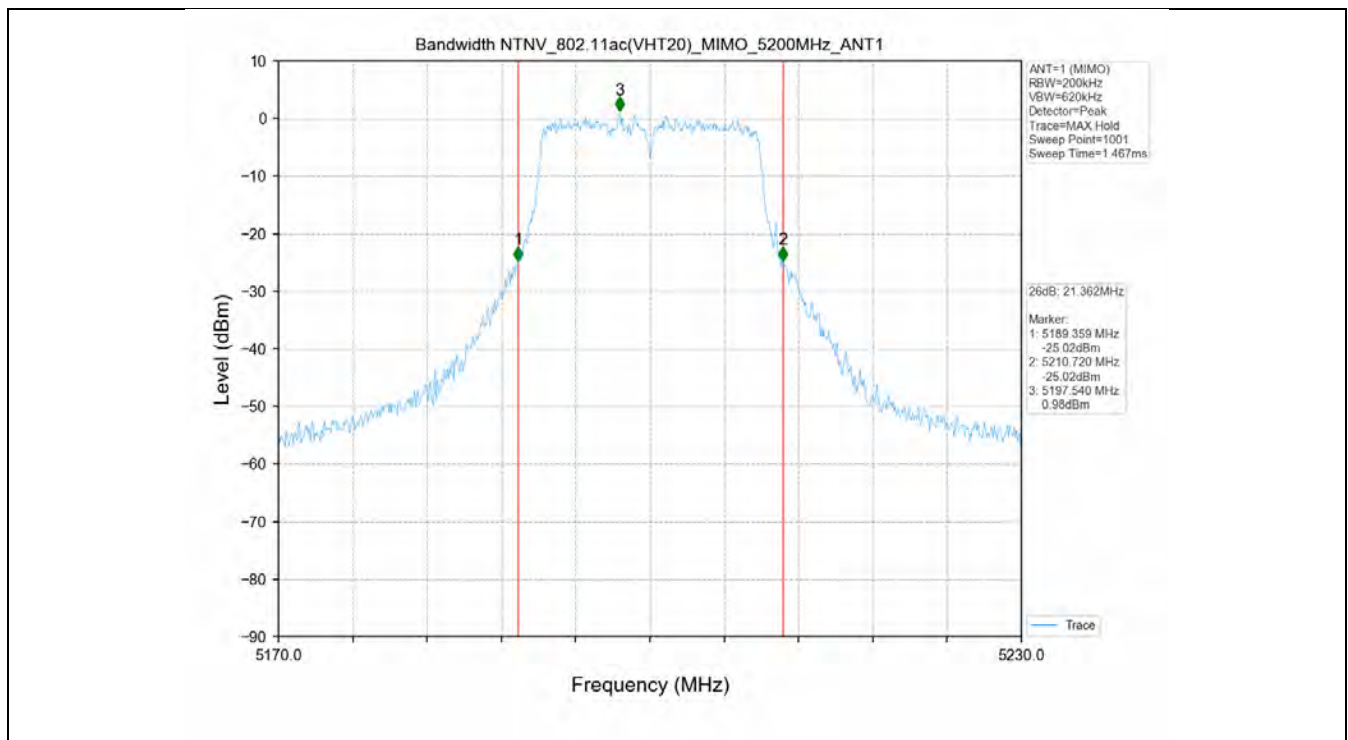
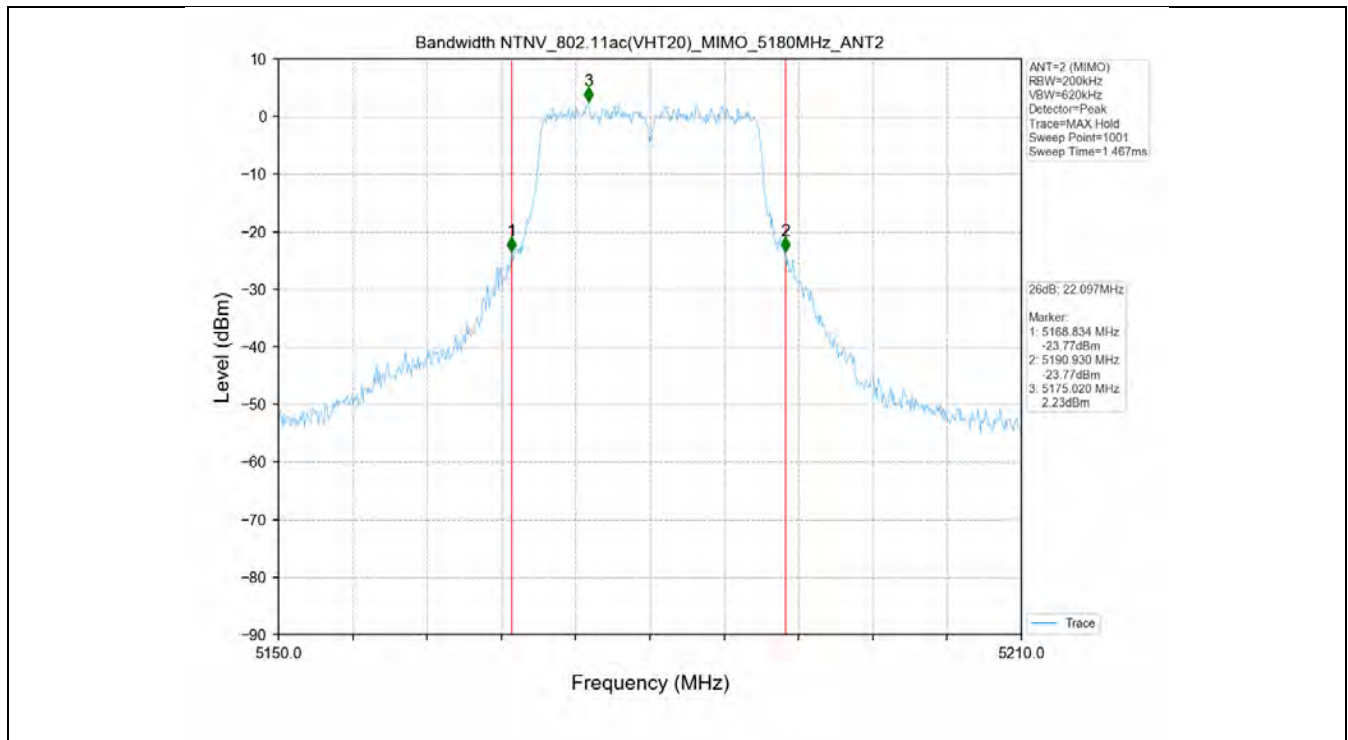


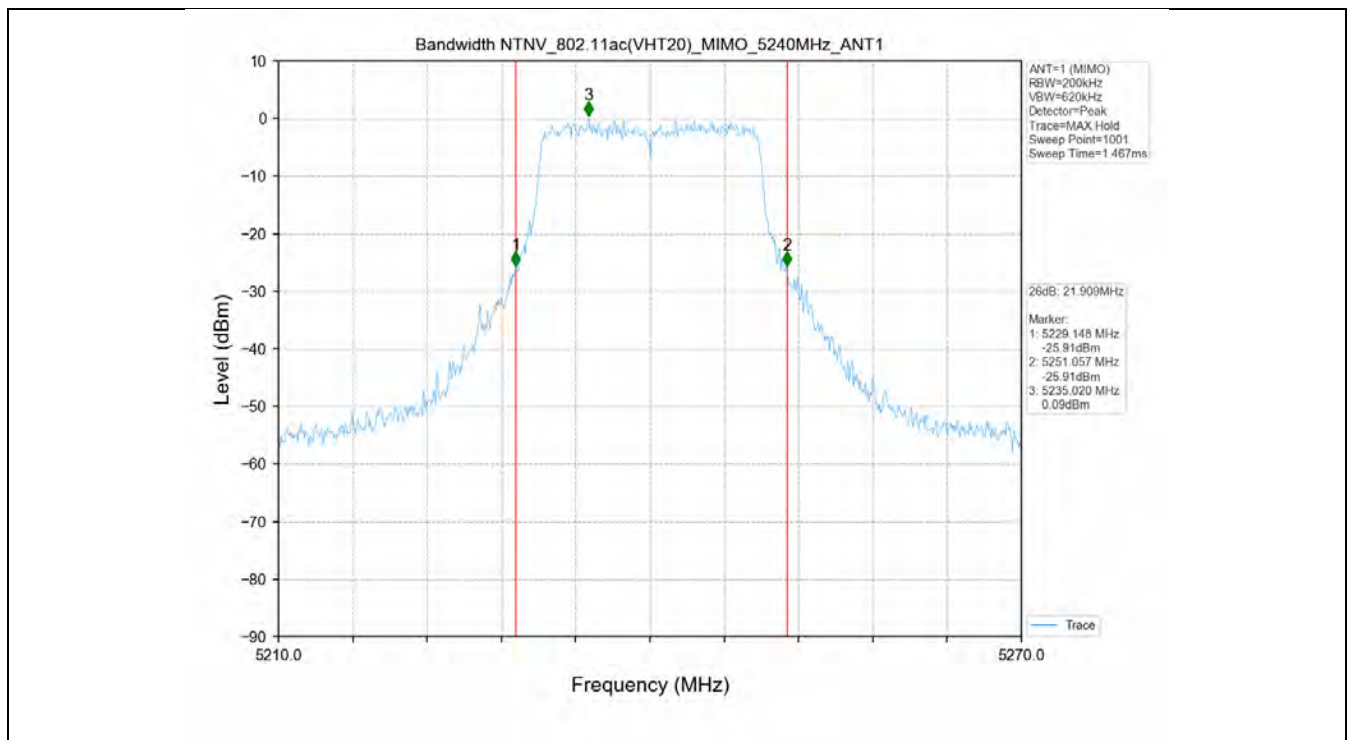
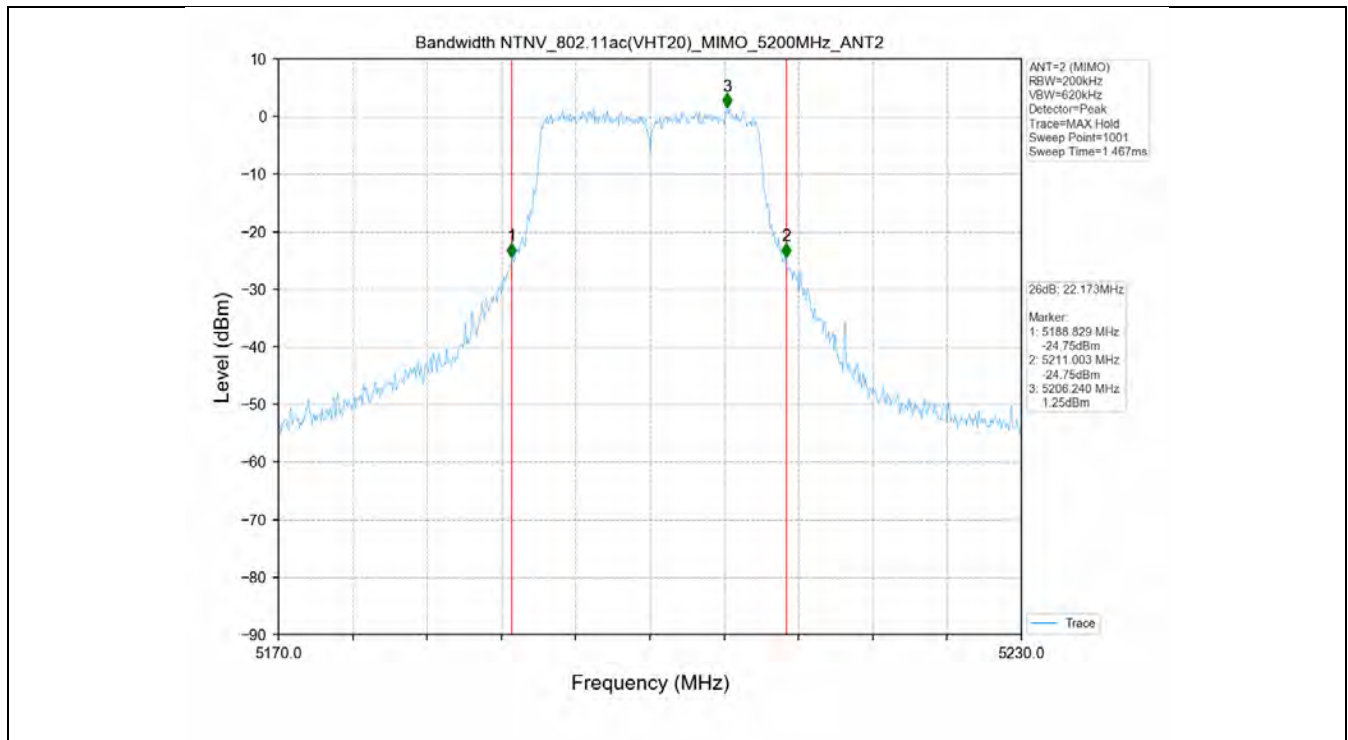


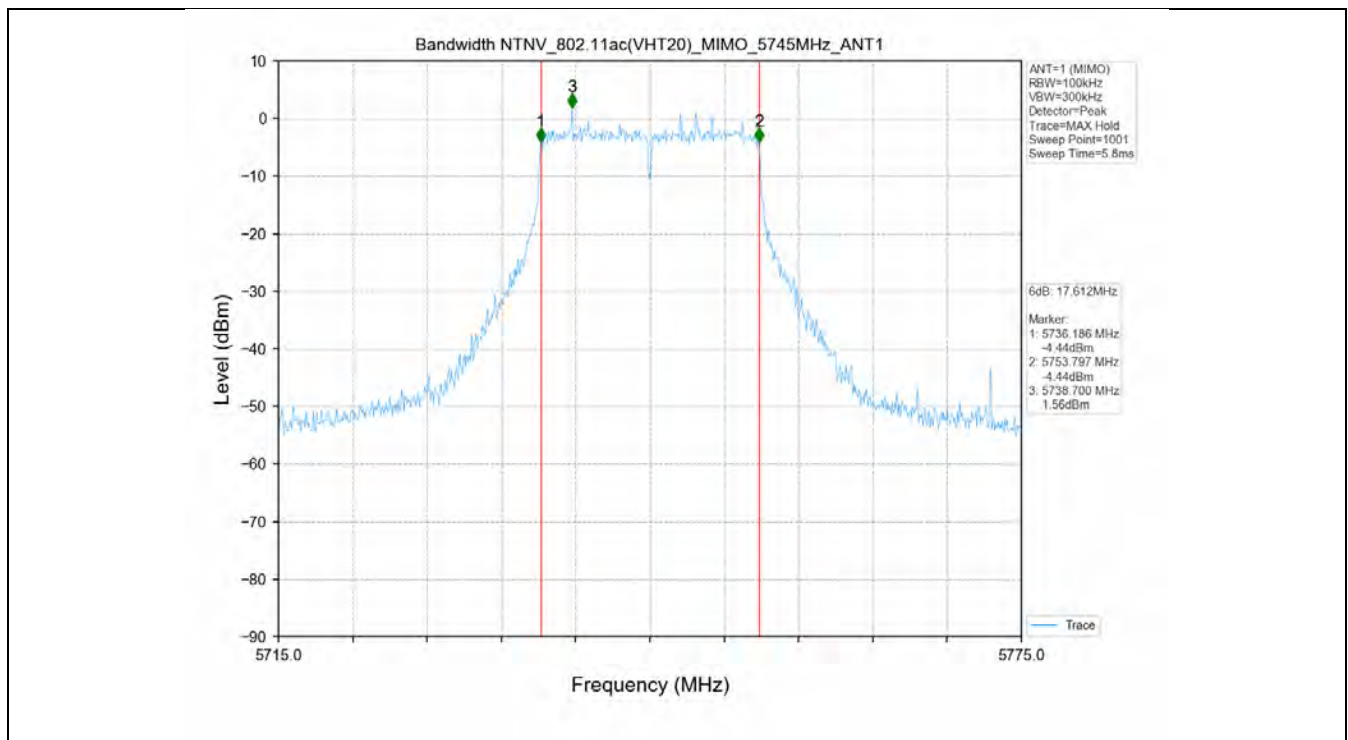
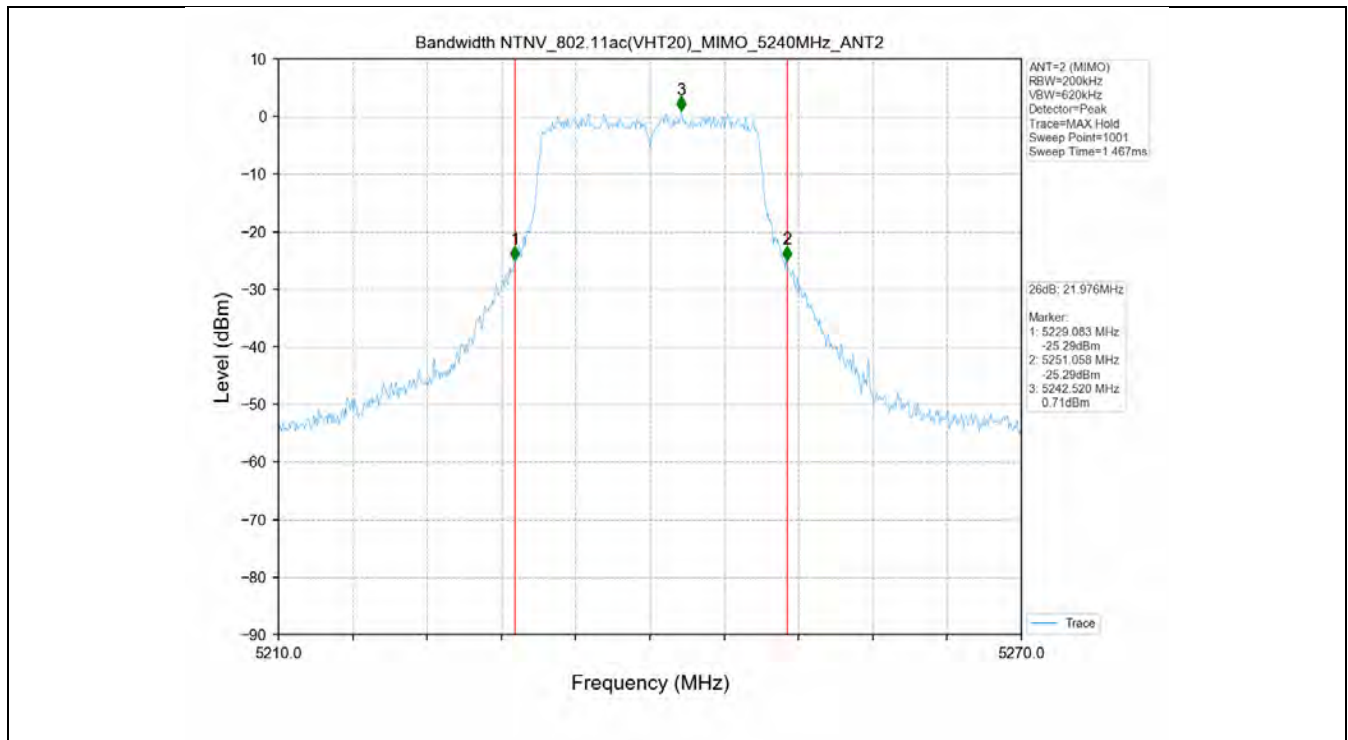


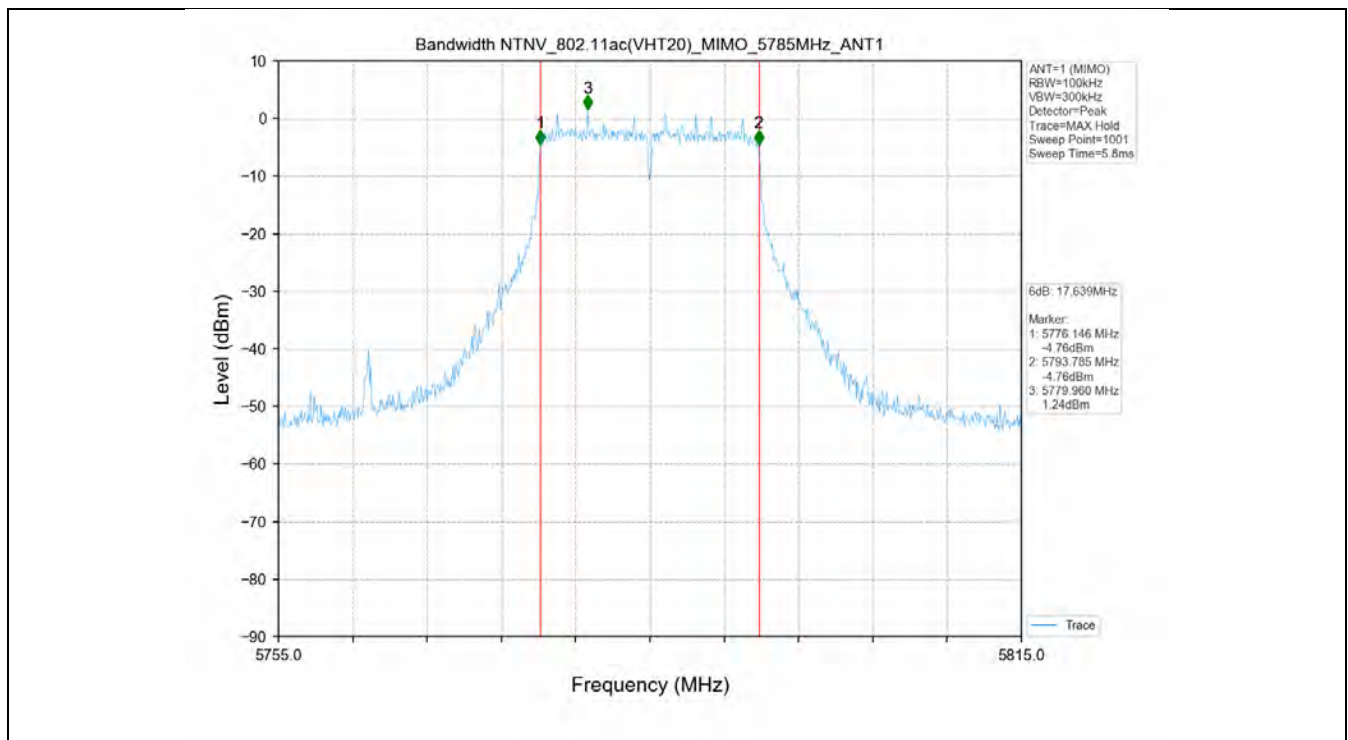
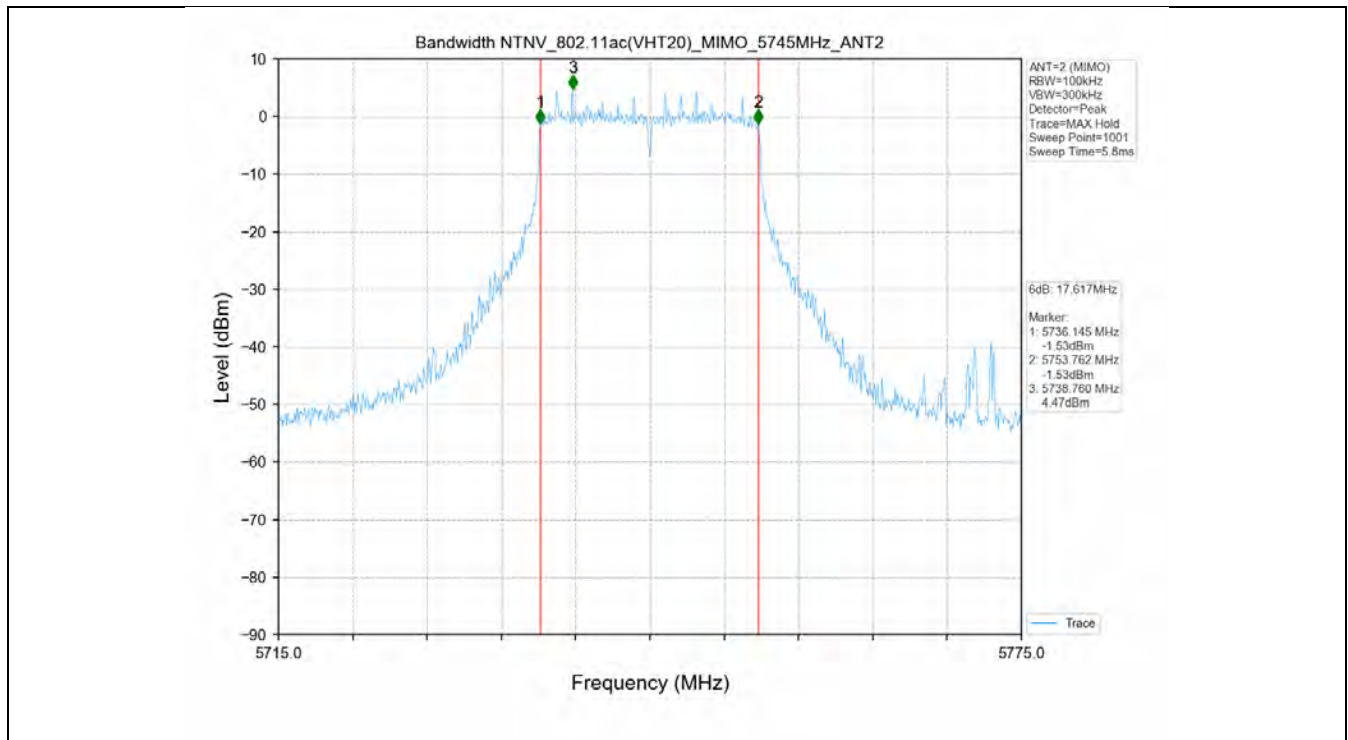


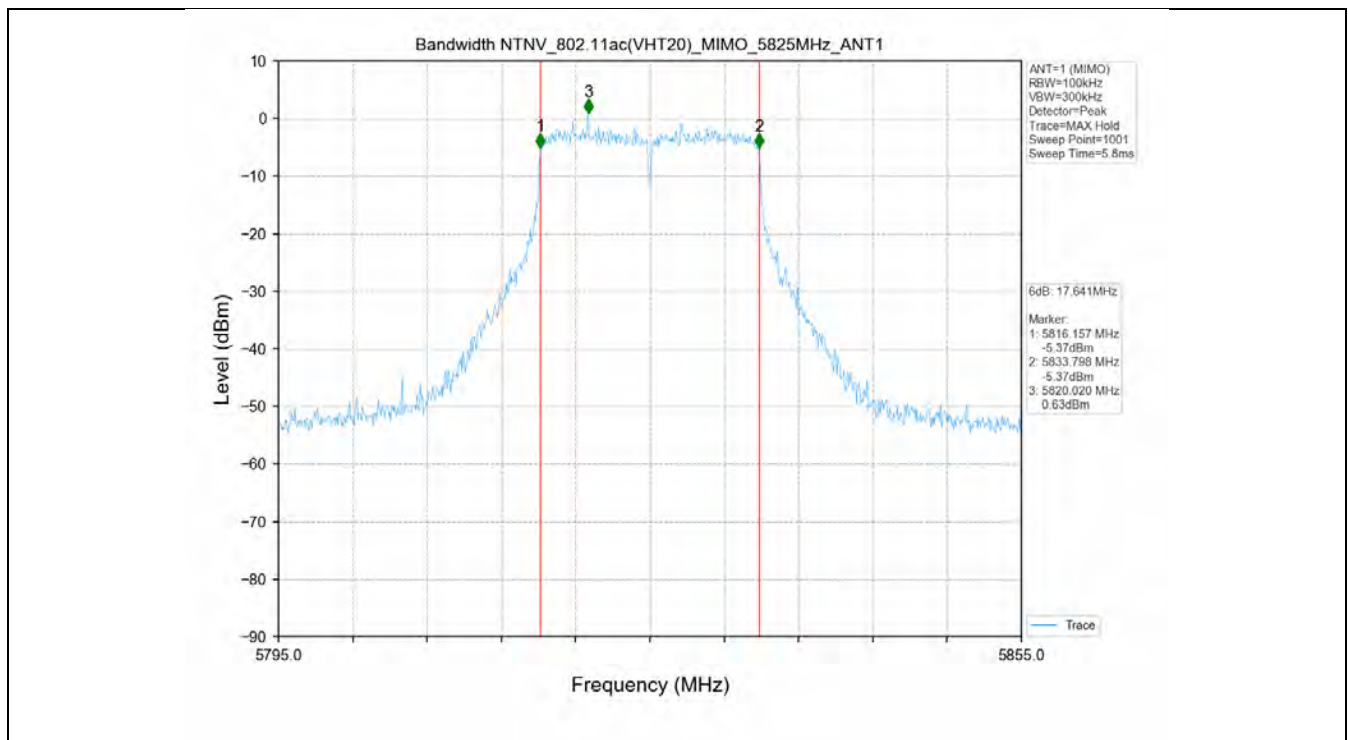
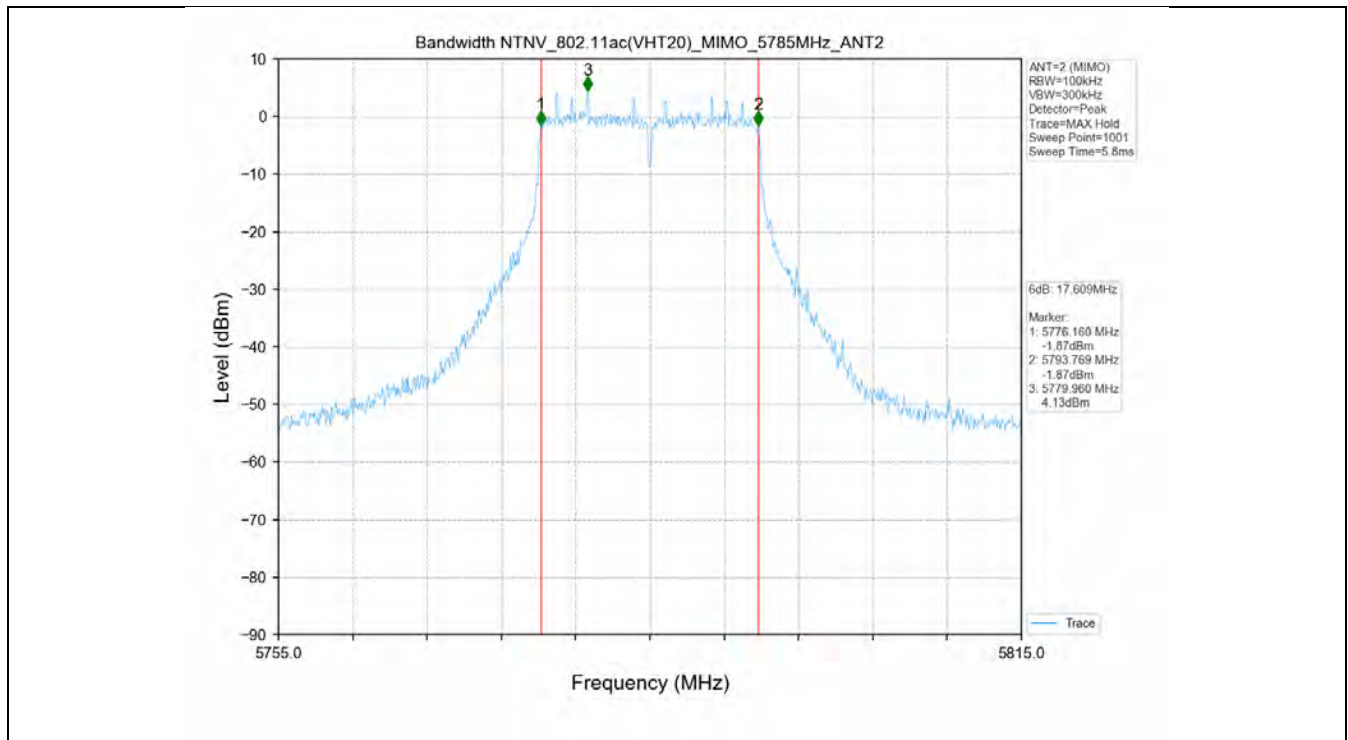


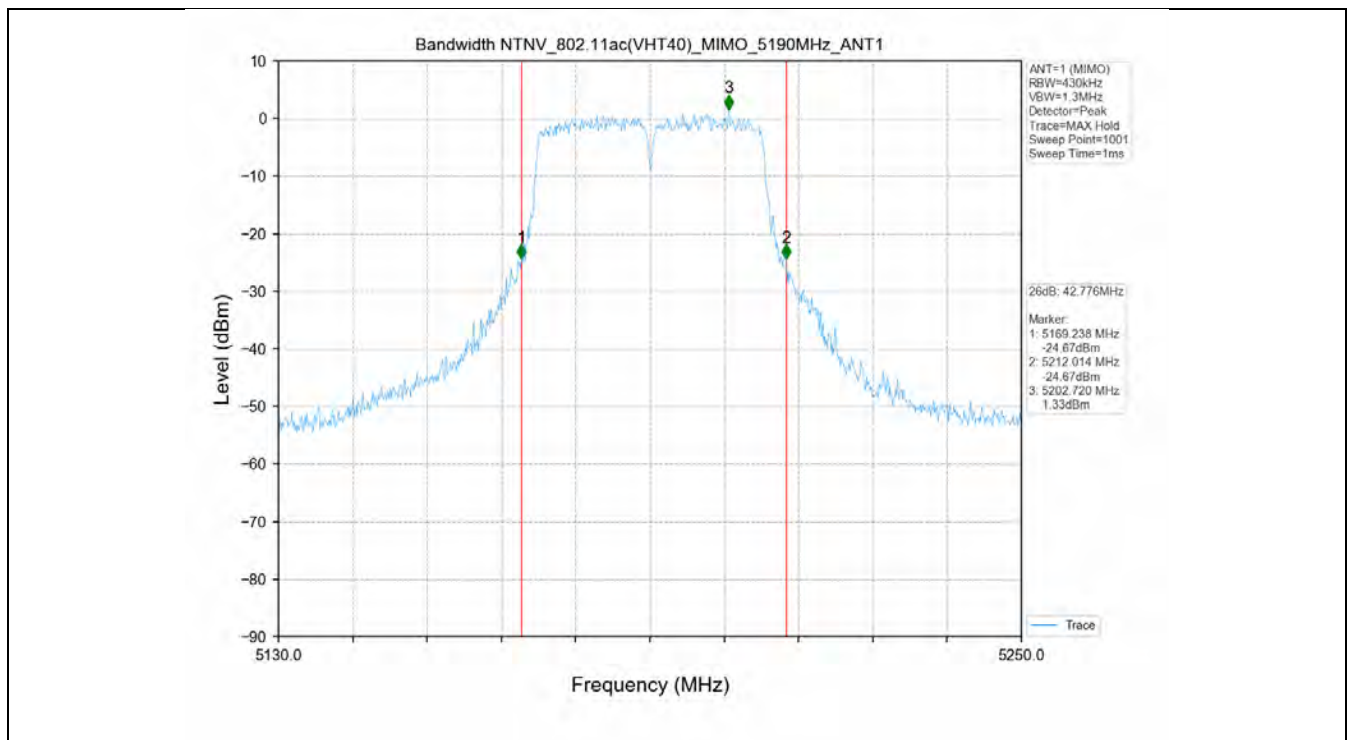
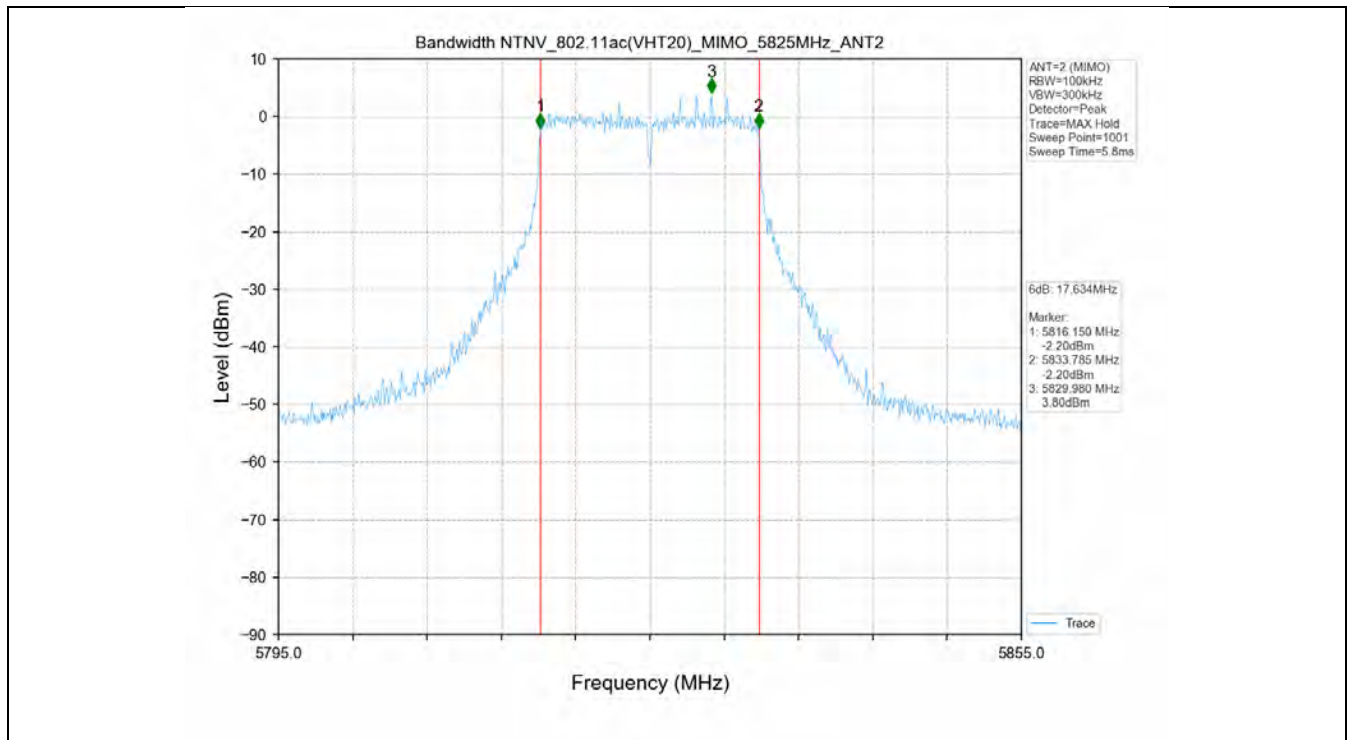


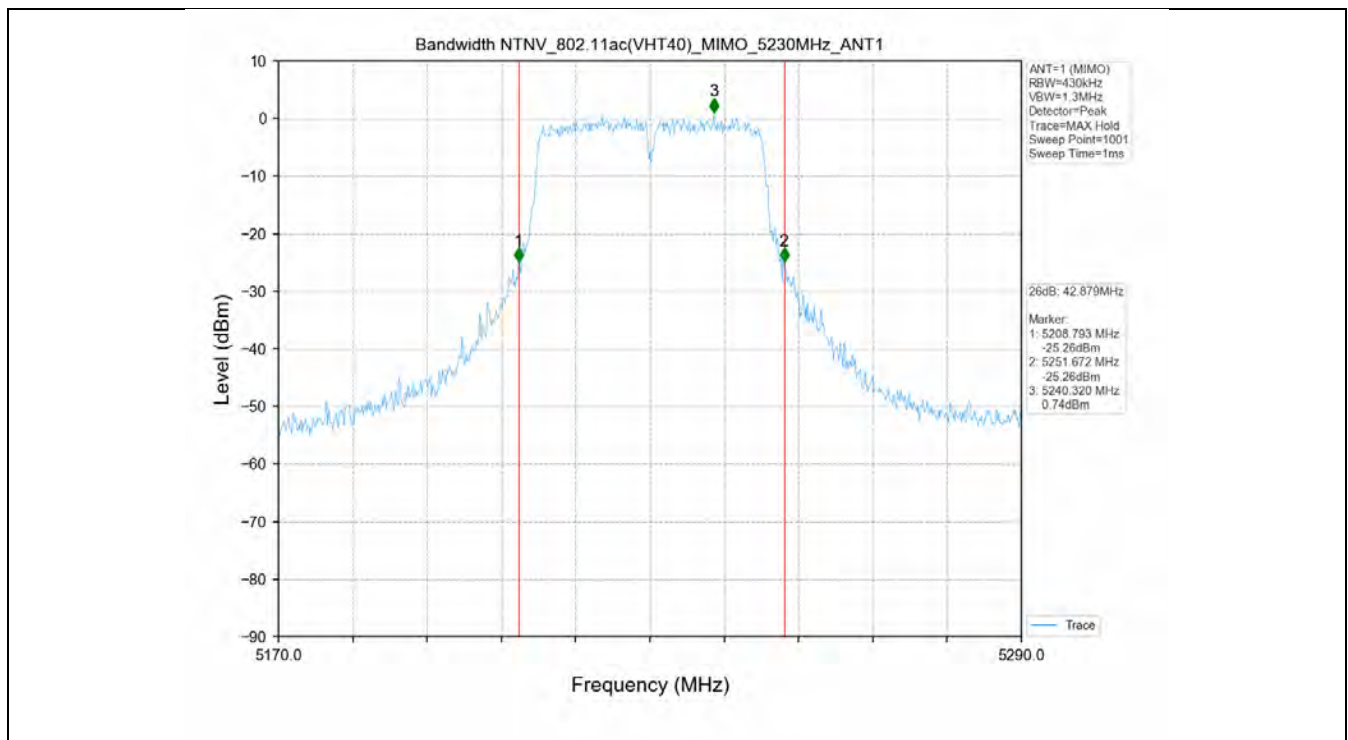
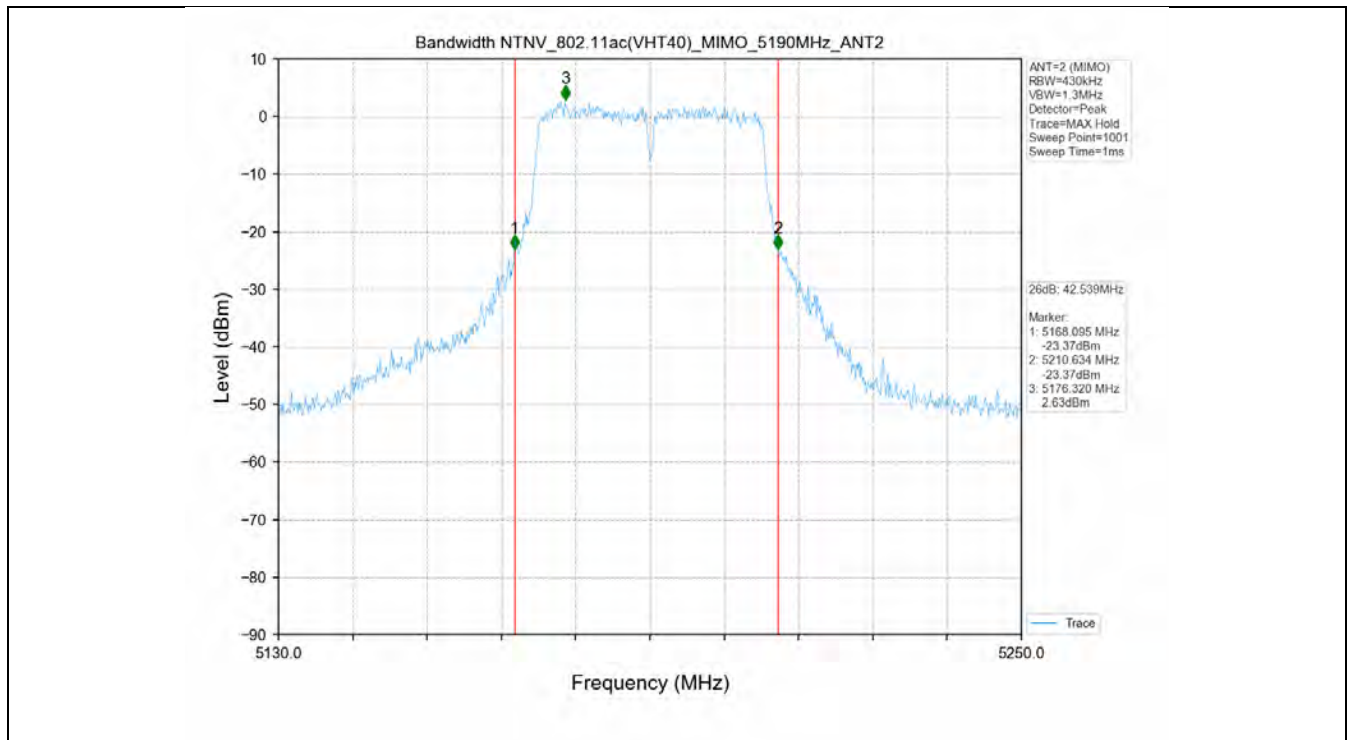


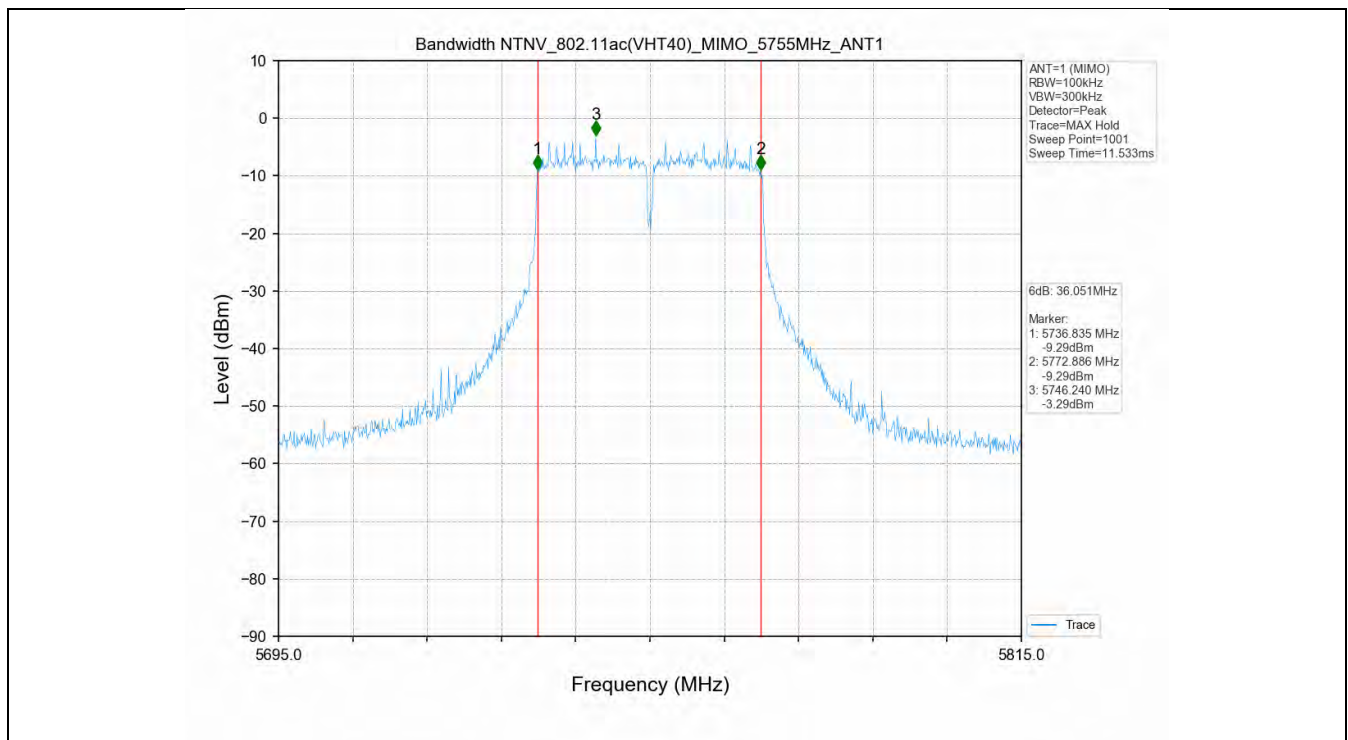
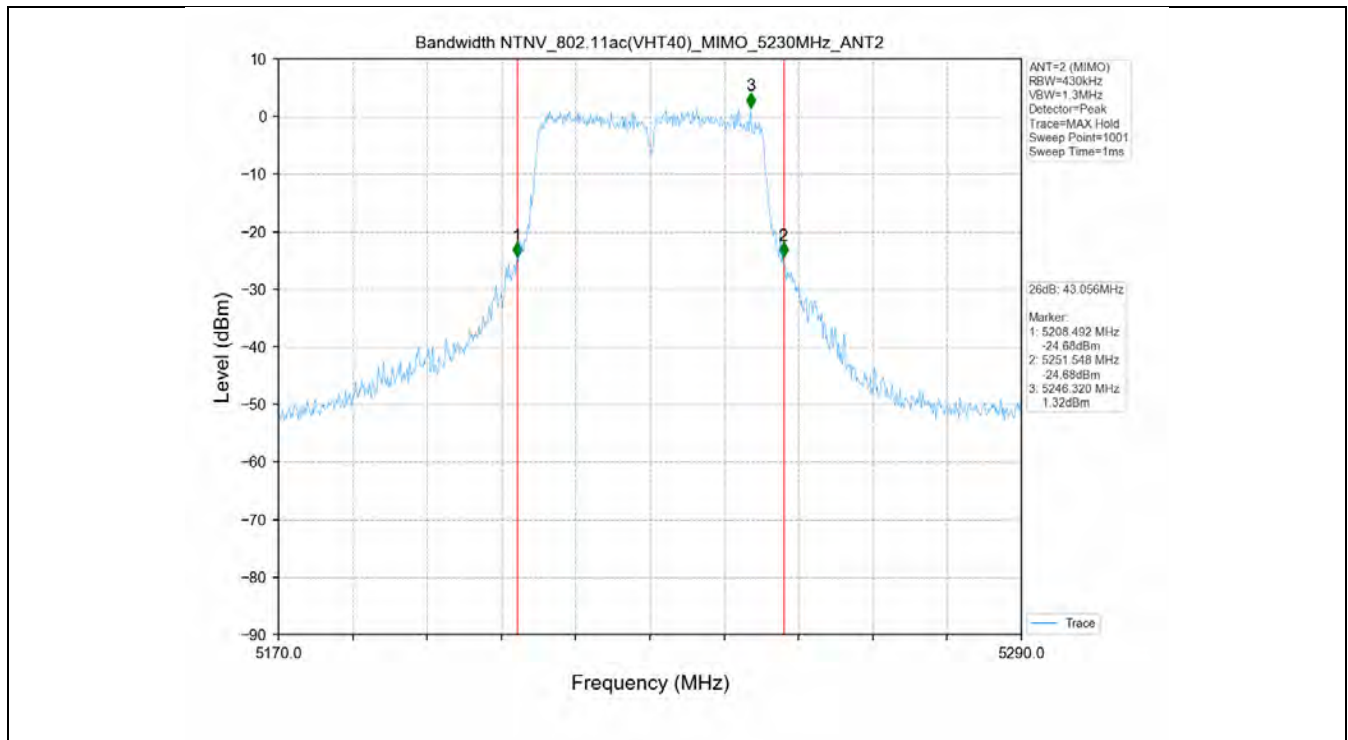


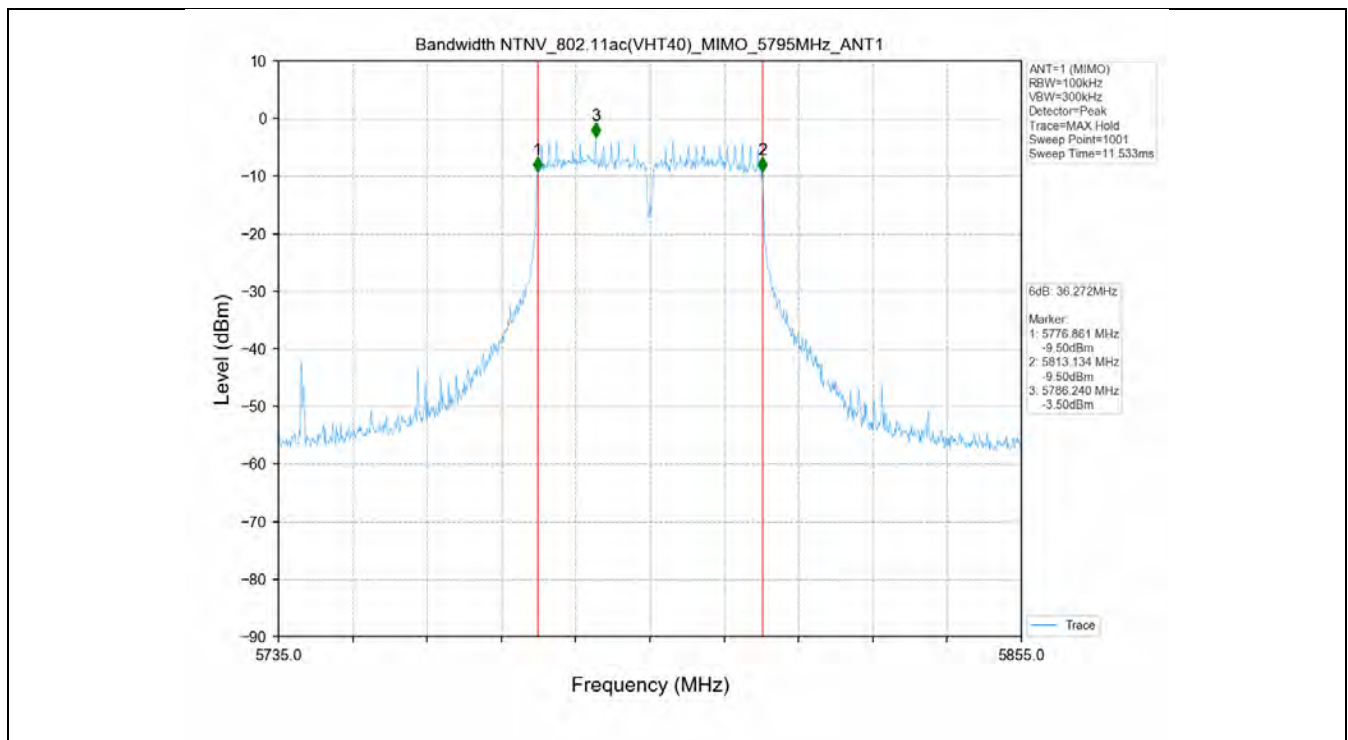
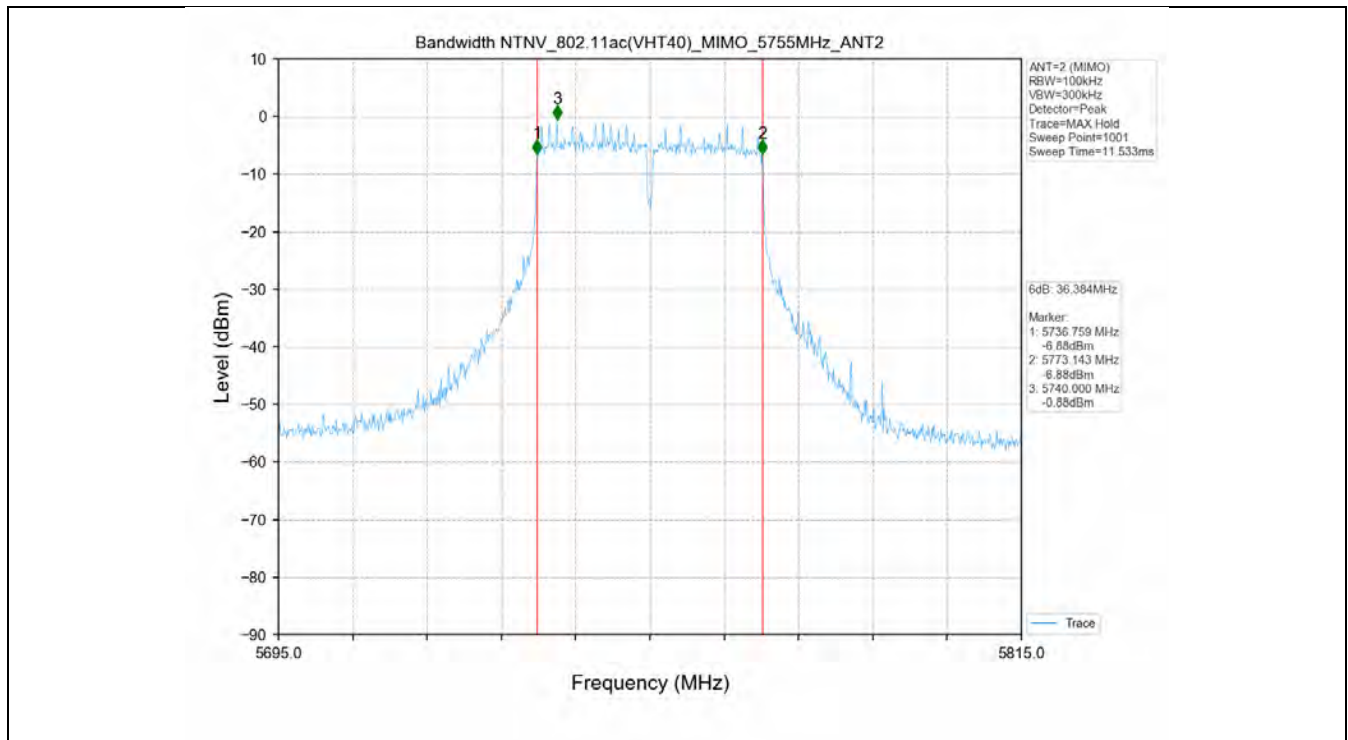


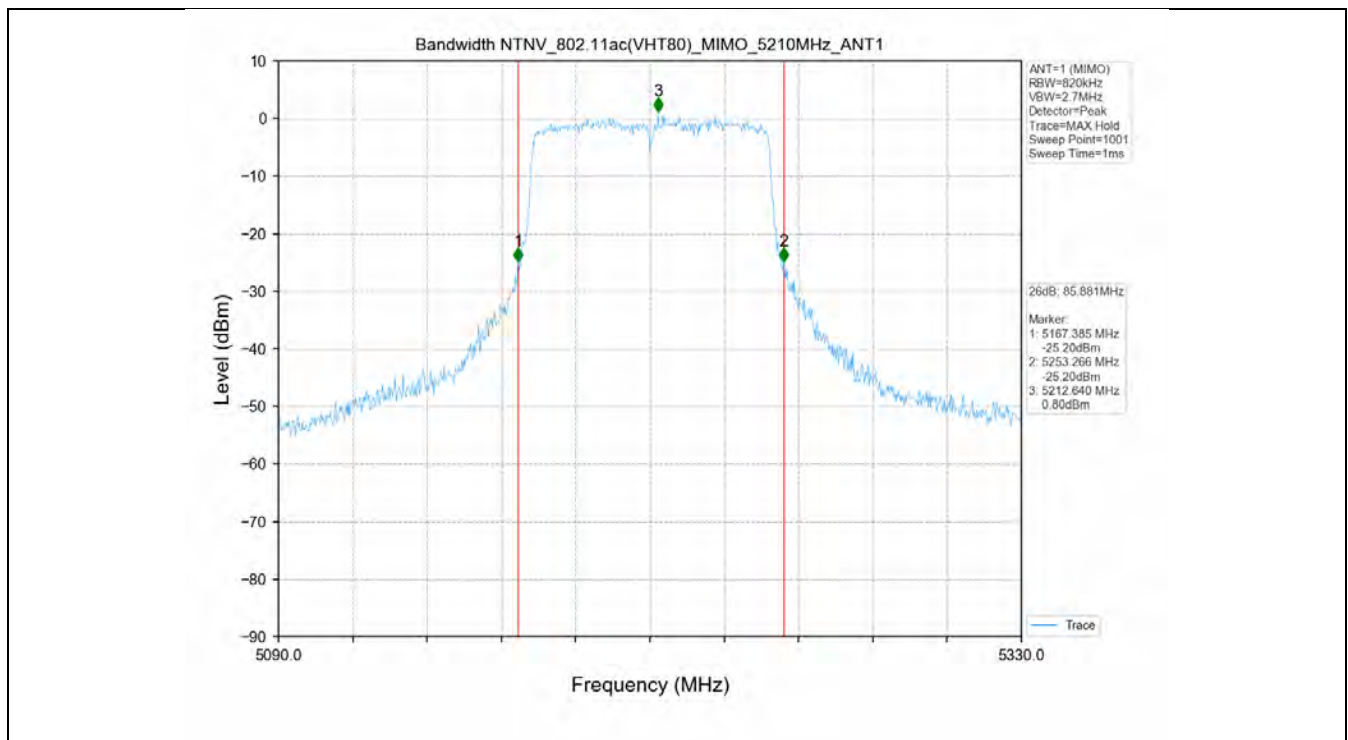
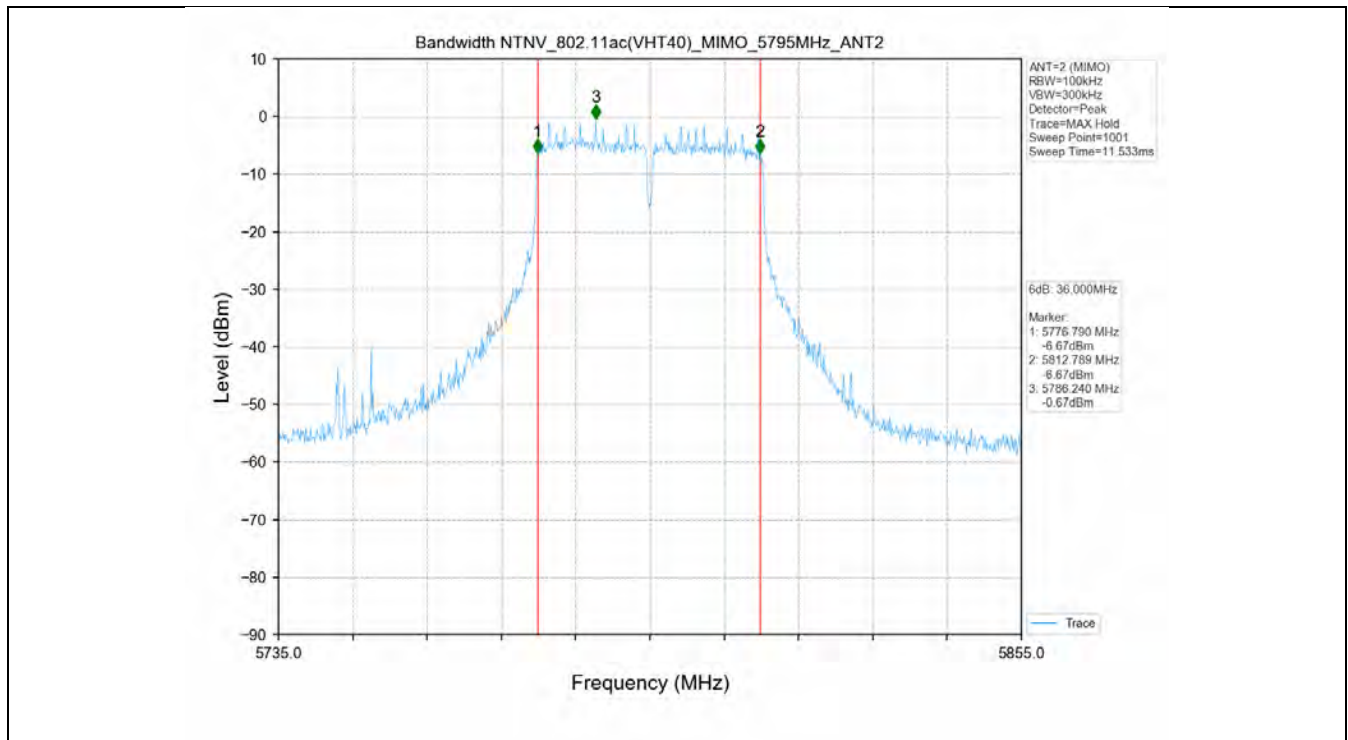


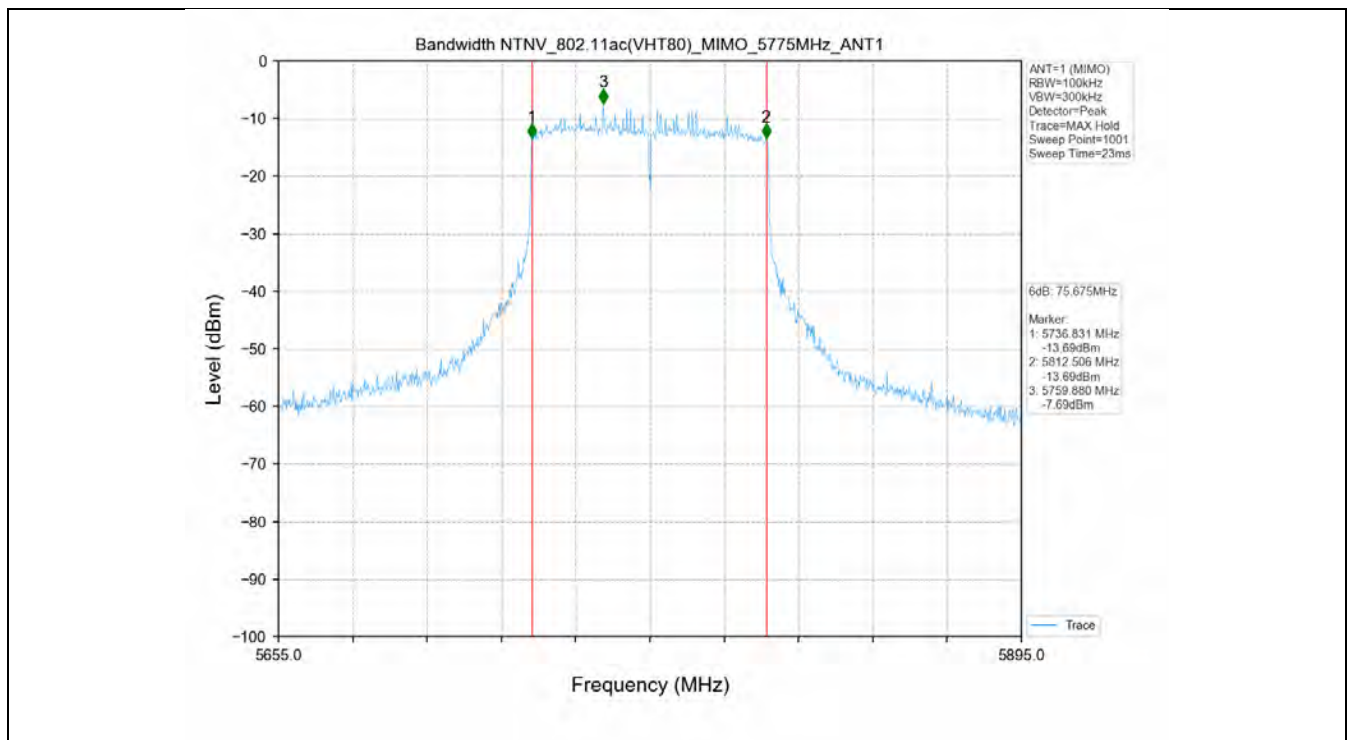
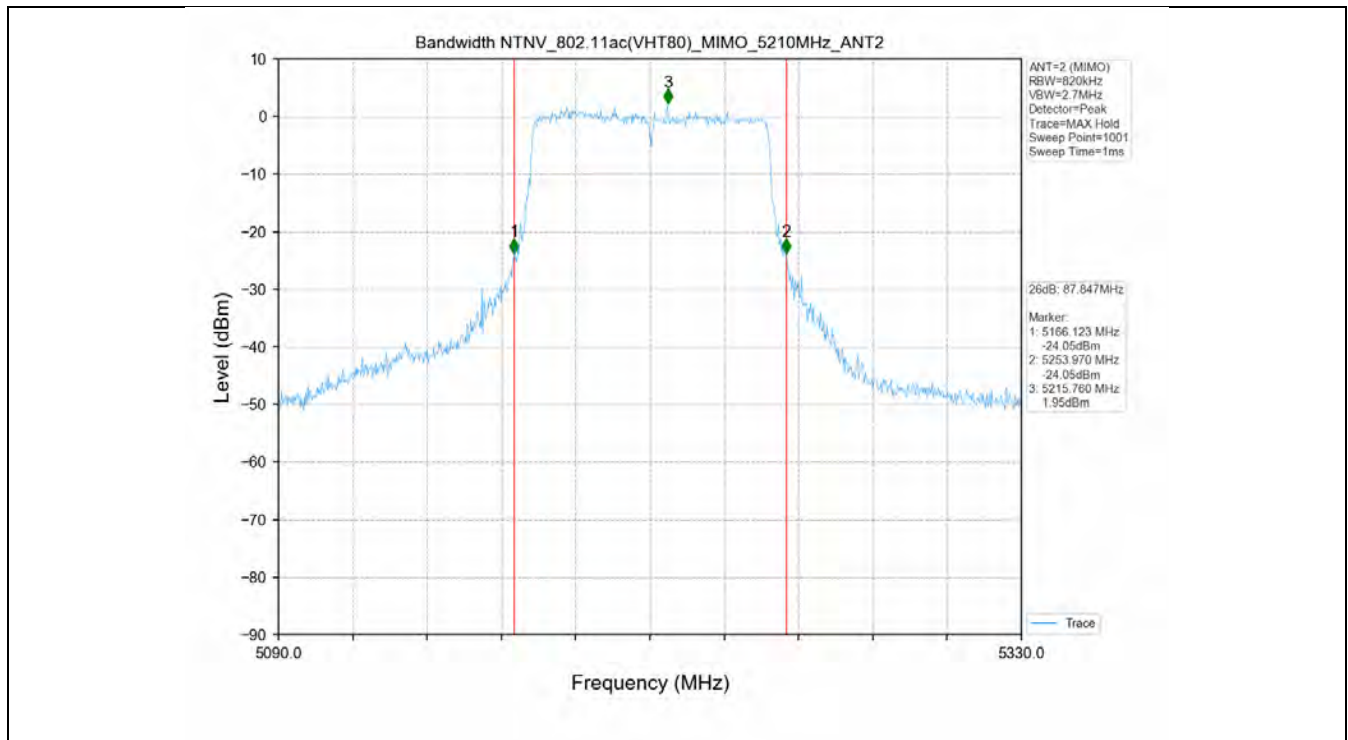


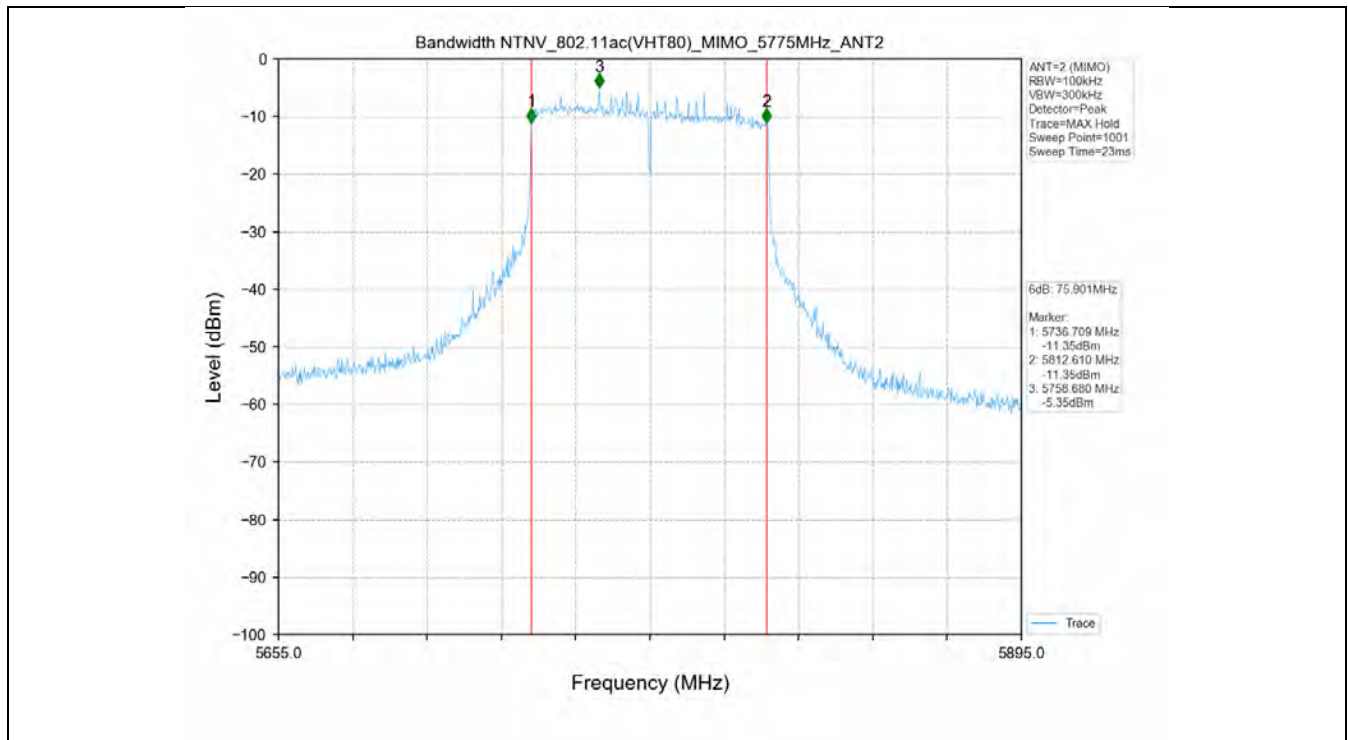




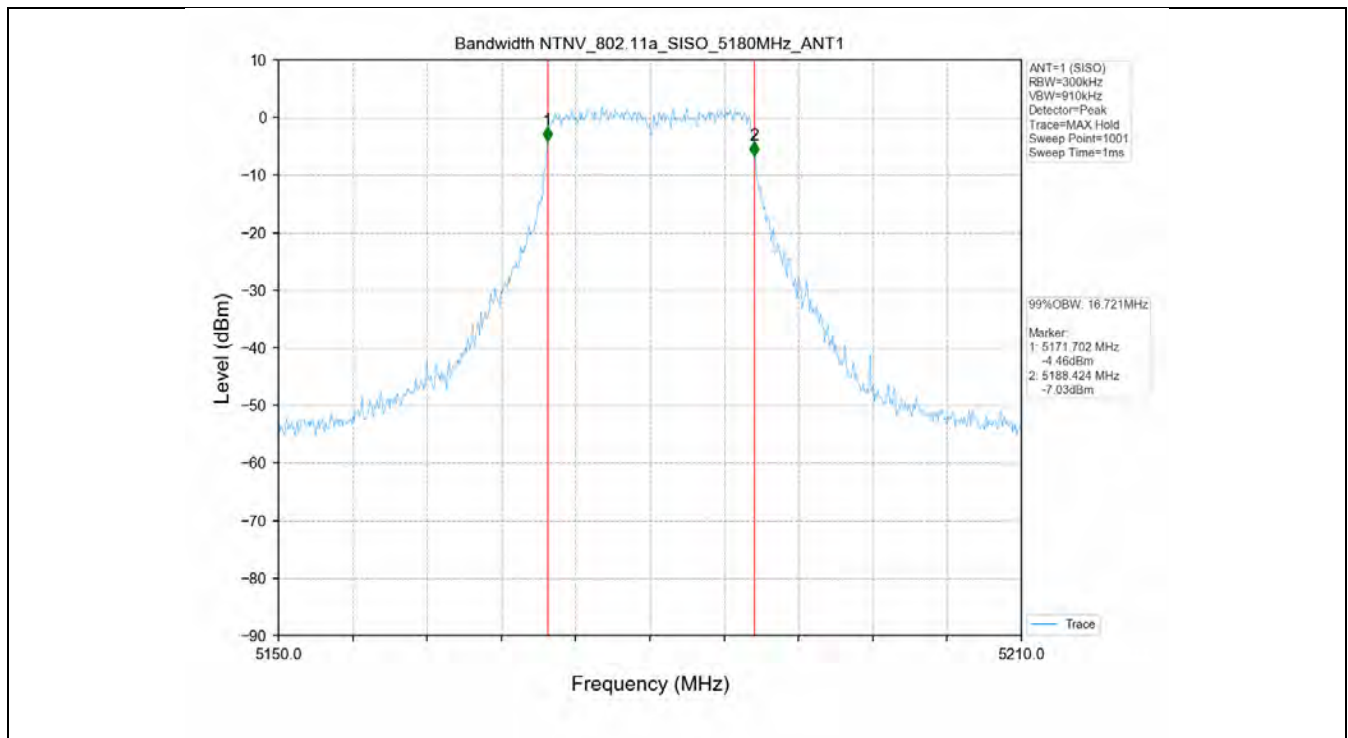


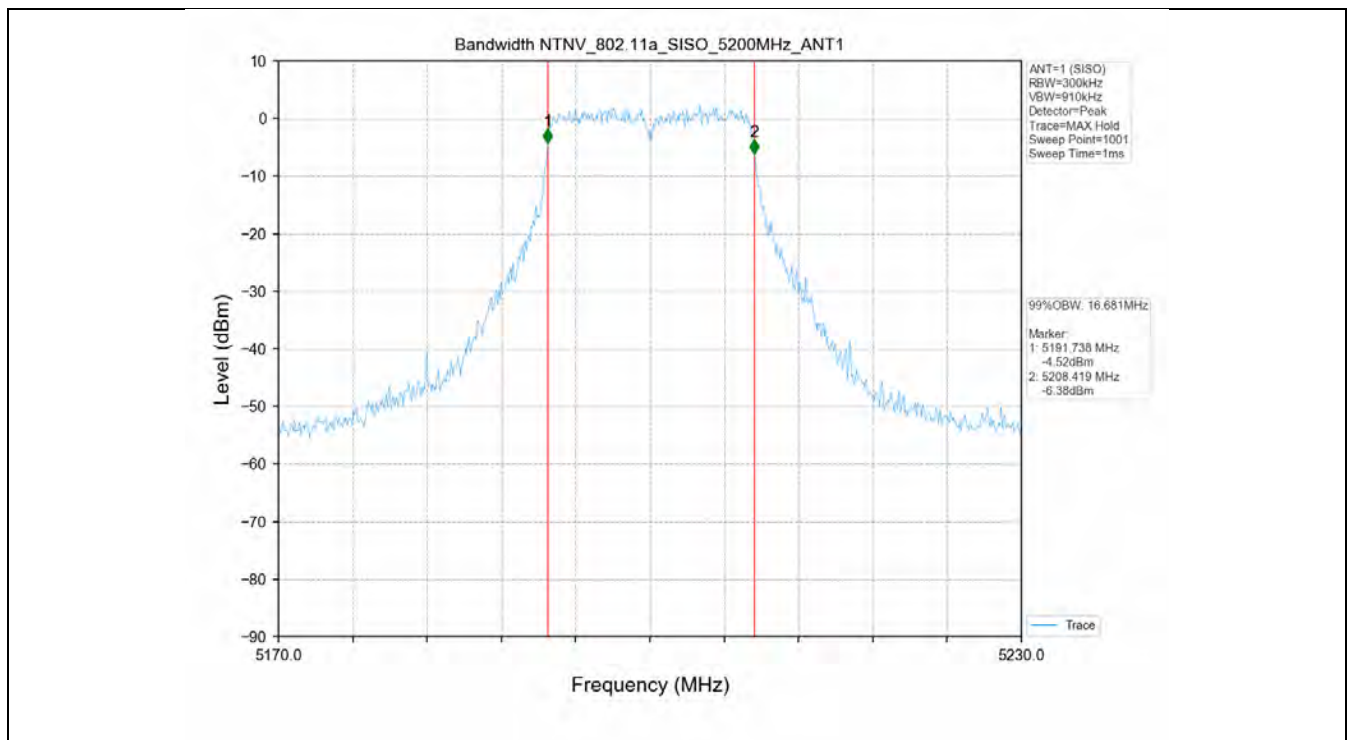
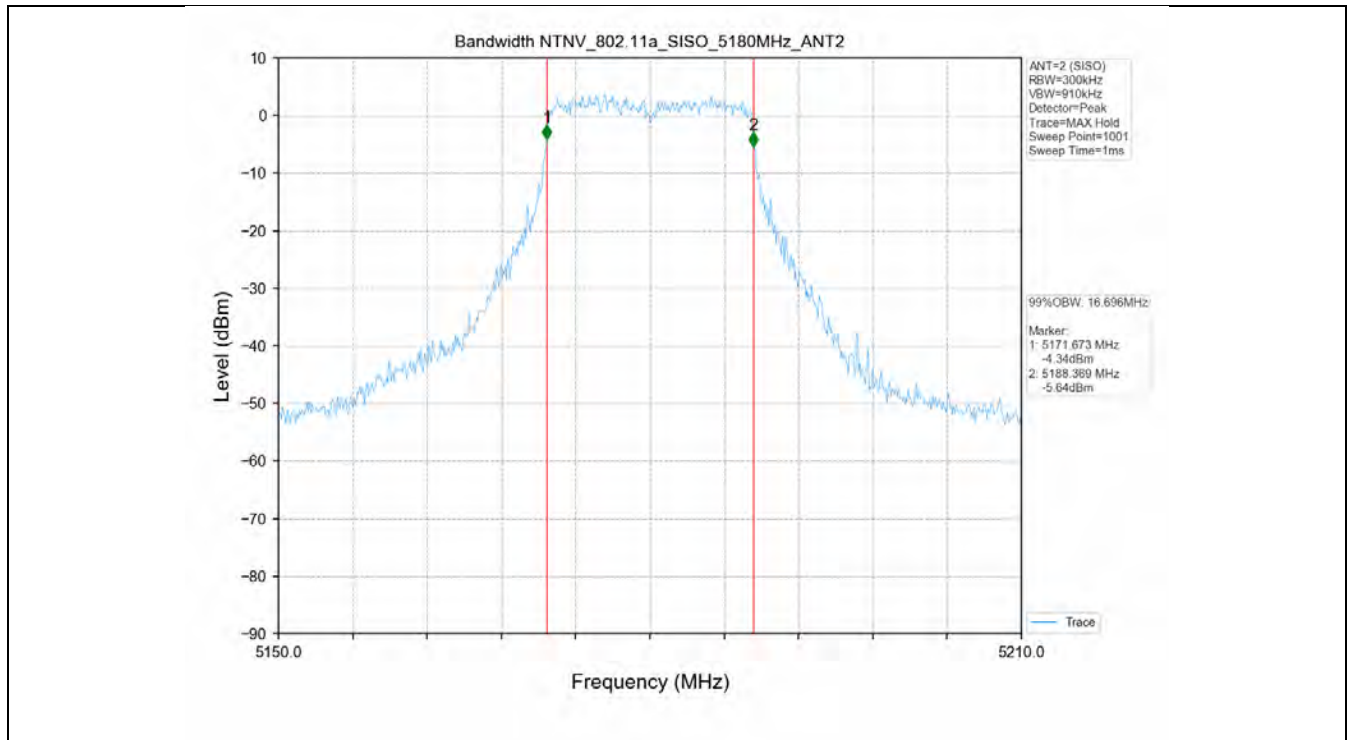


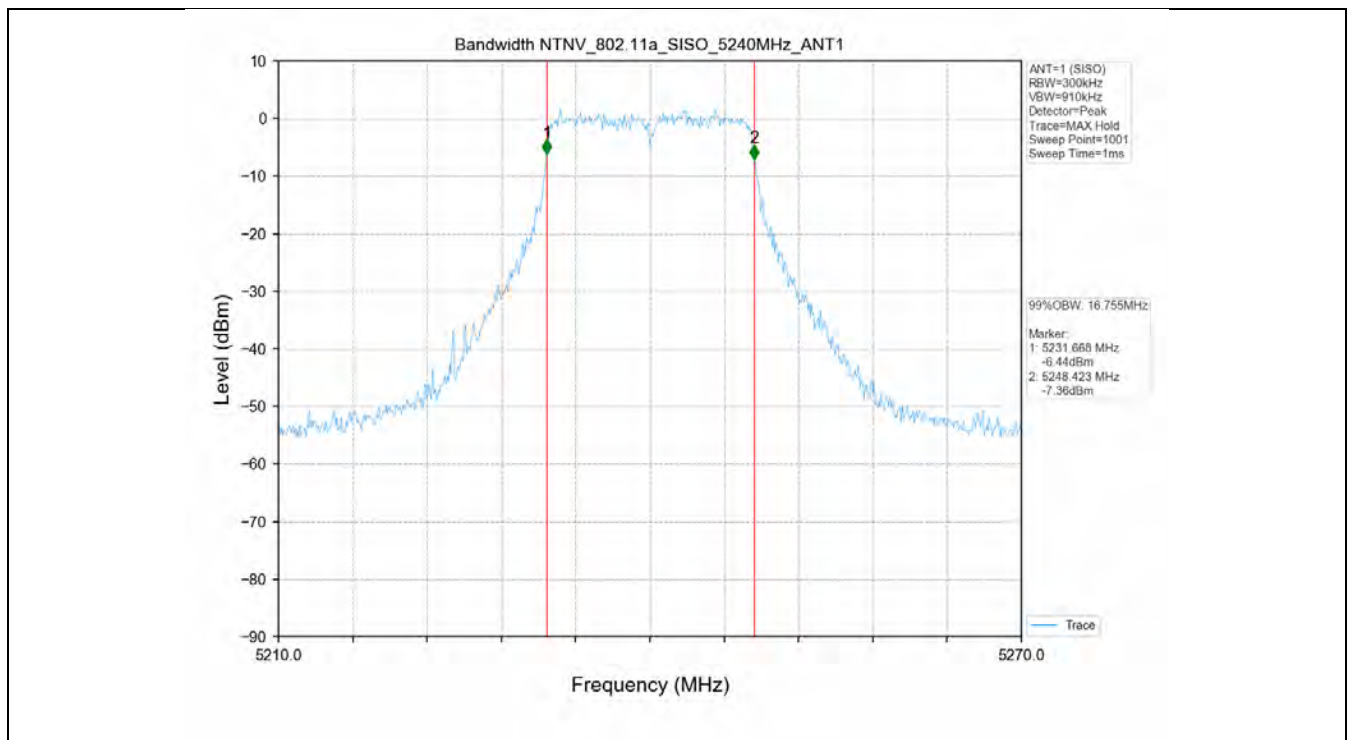
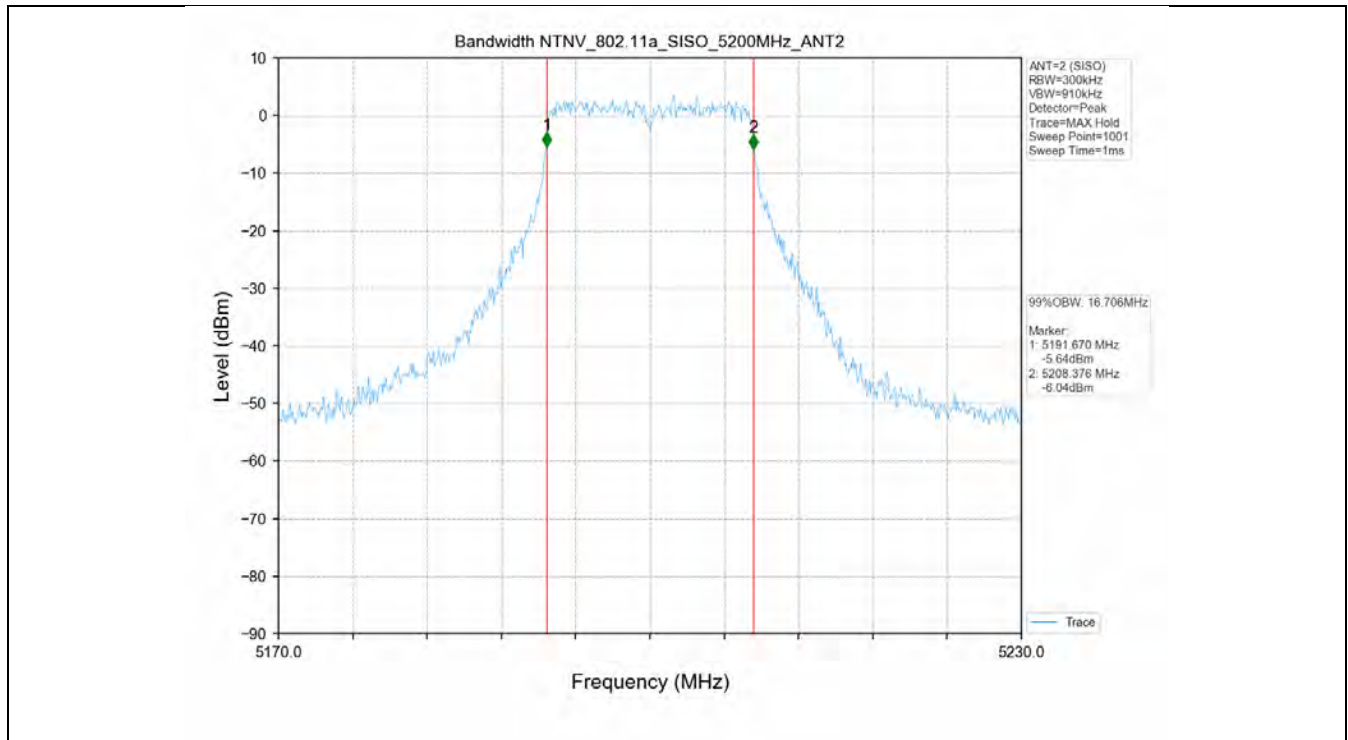


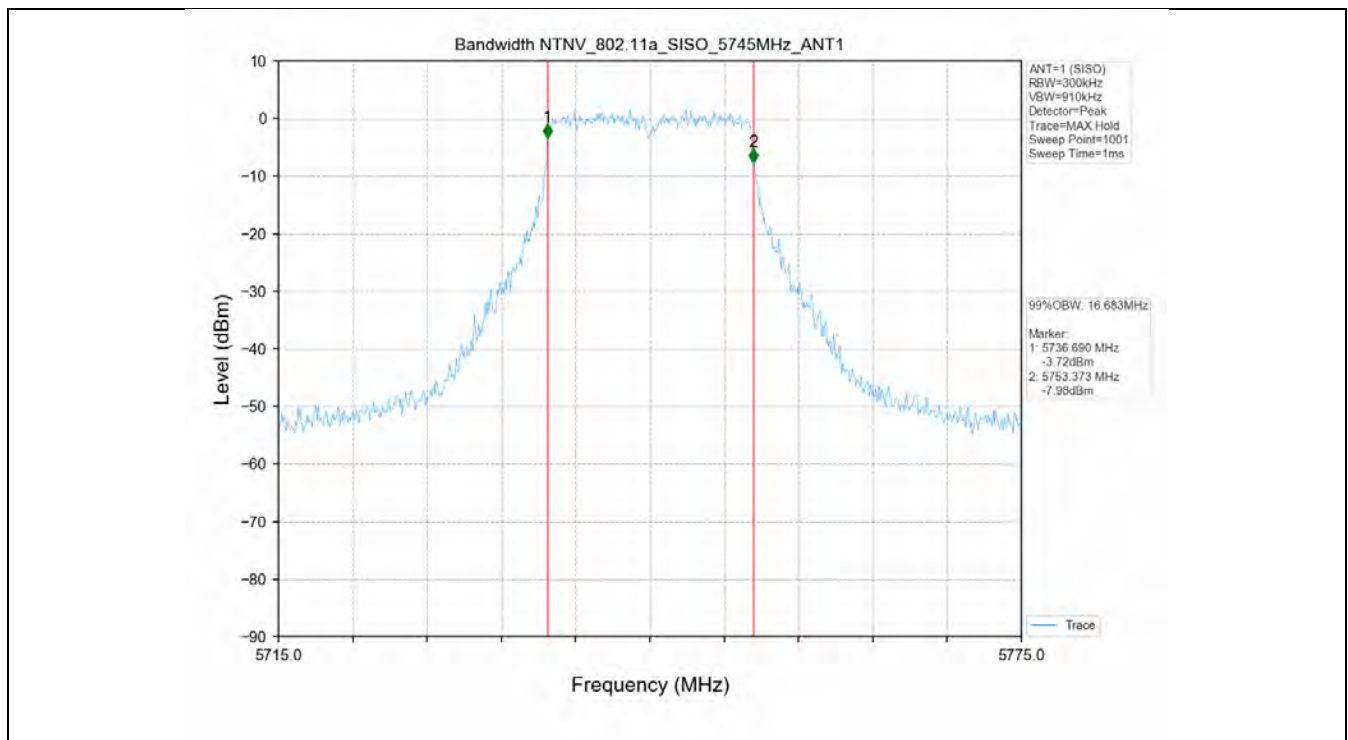
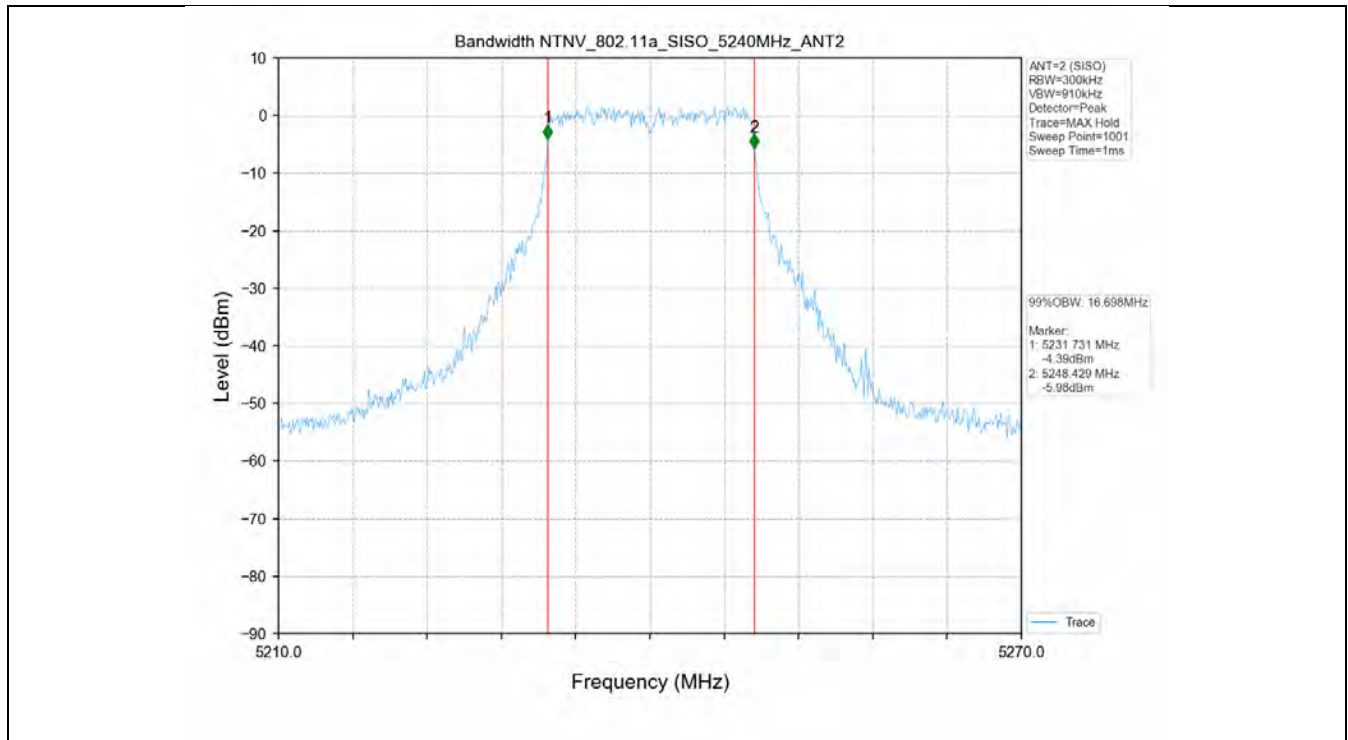


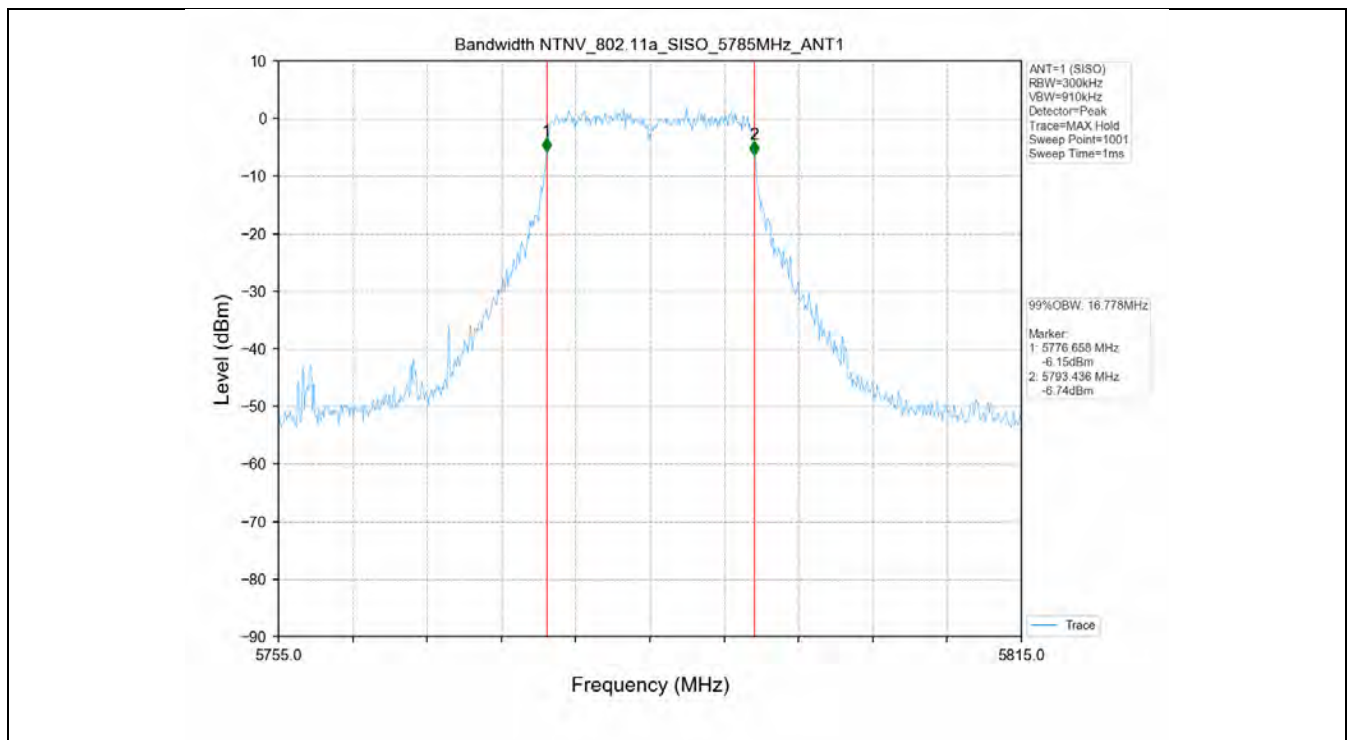
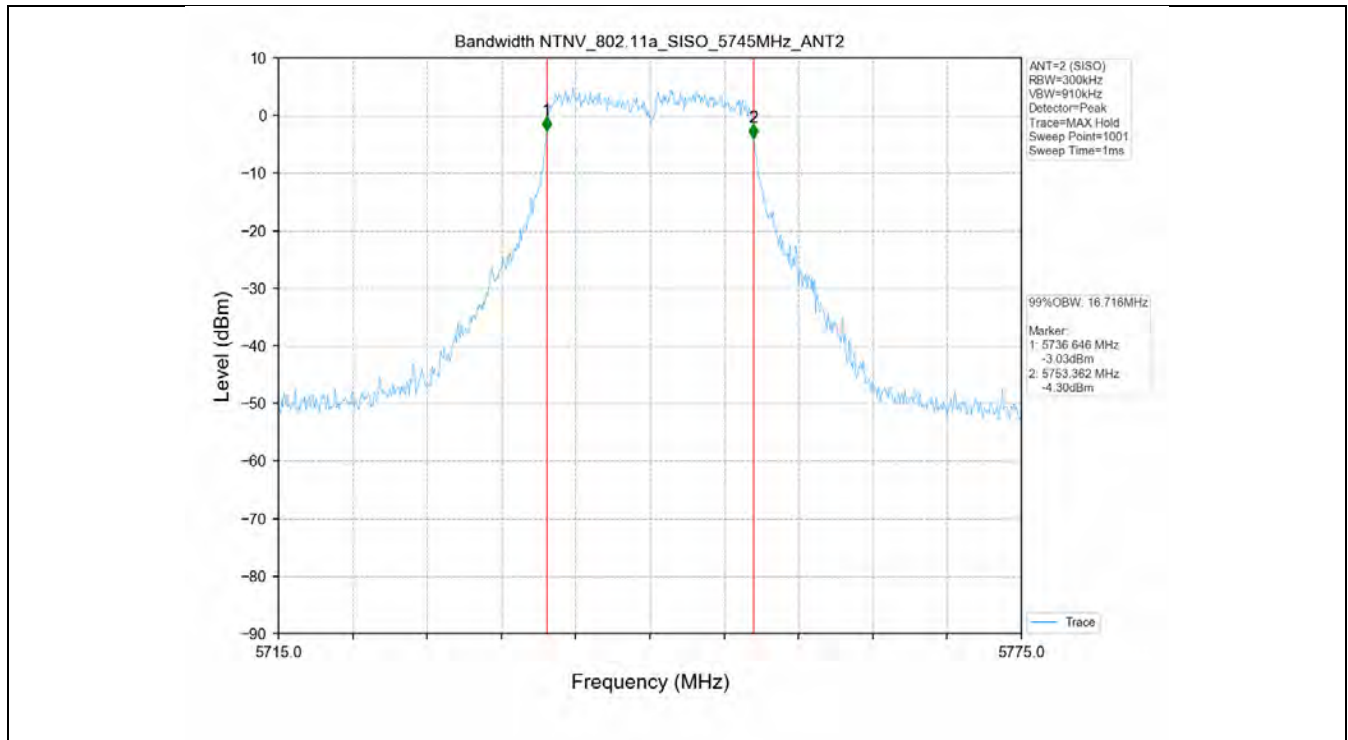
2.3 Test Graph - 99% Occupied Bandwidth

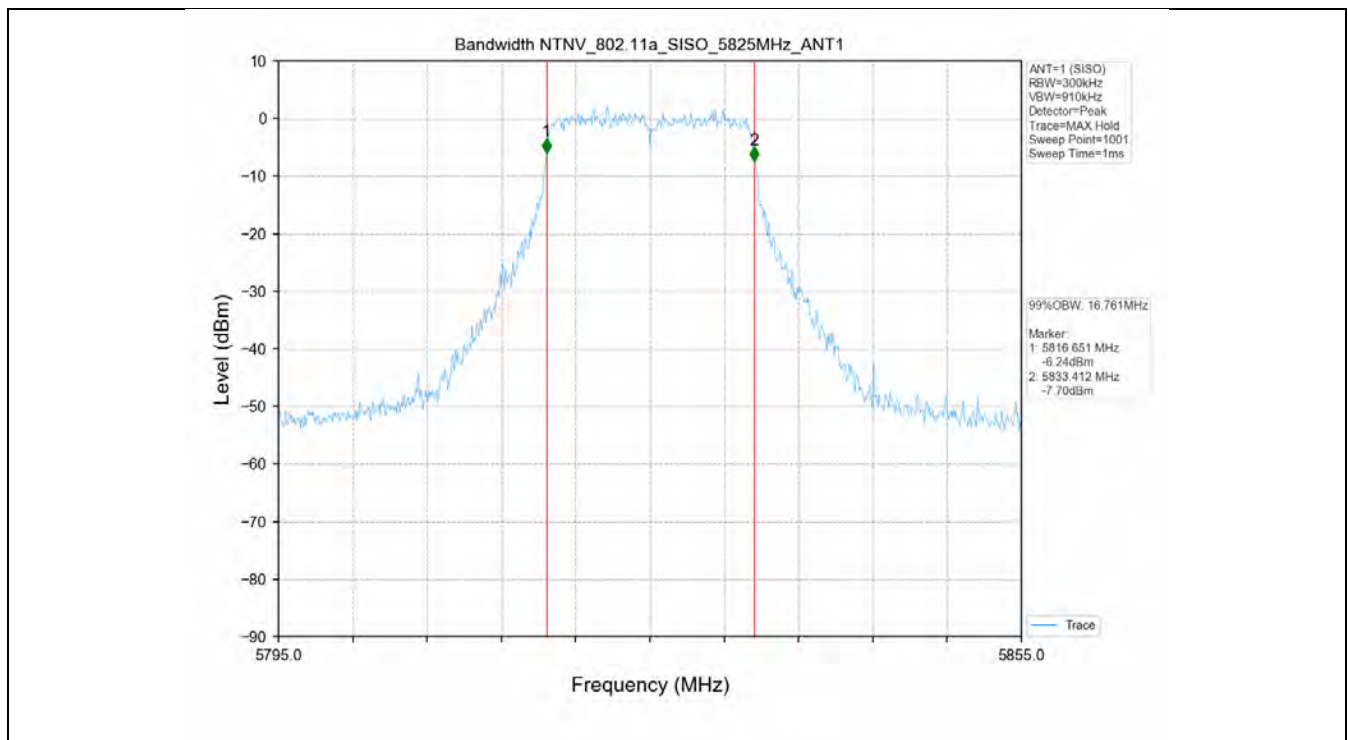
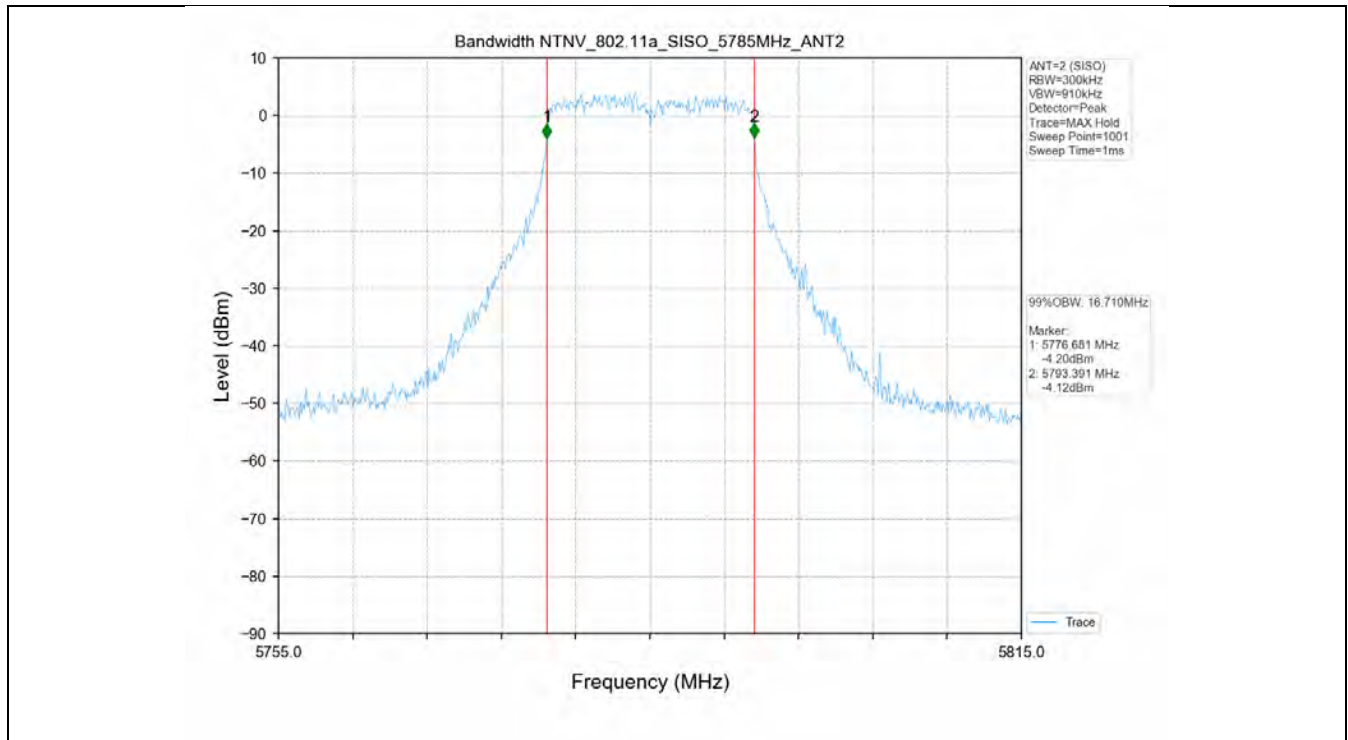


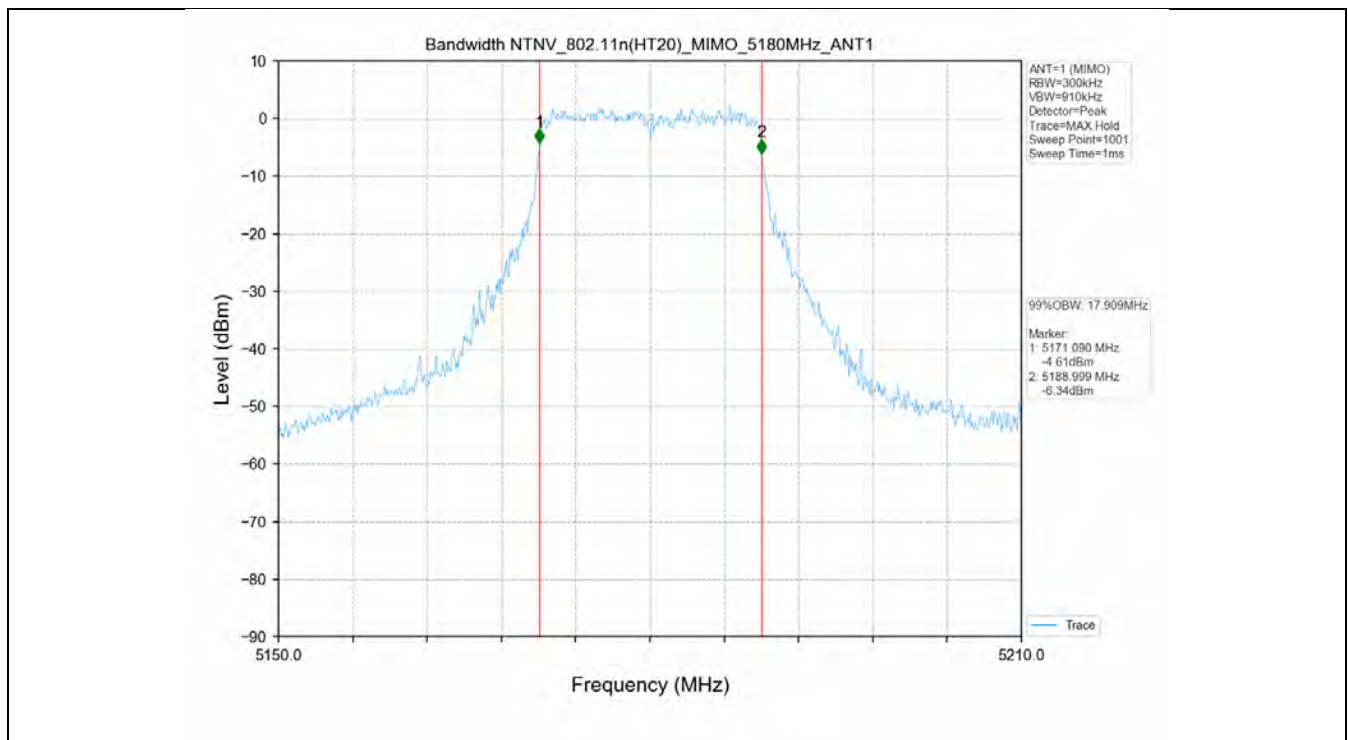
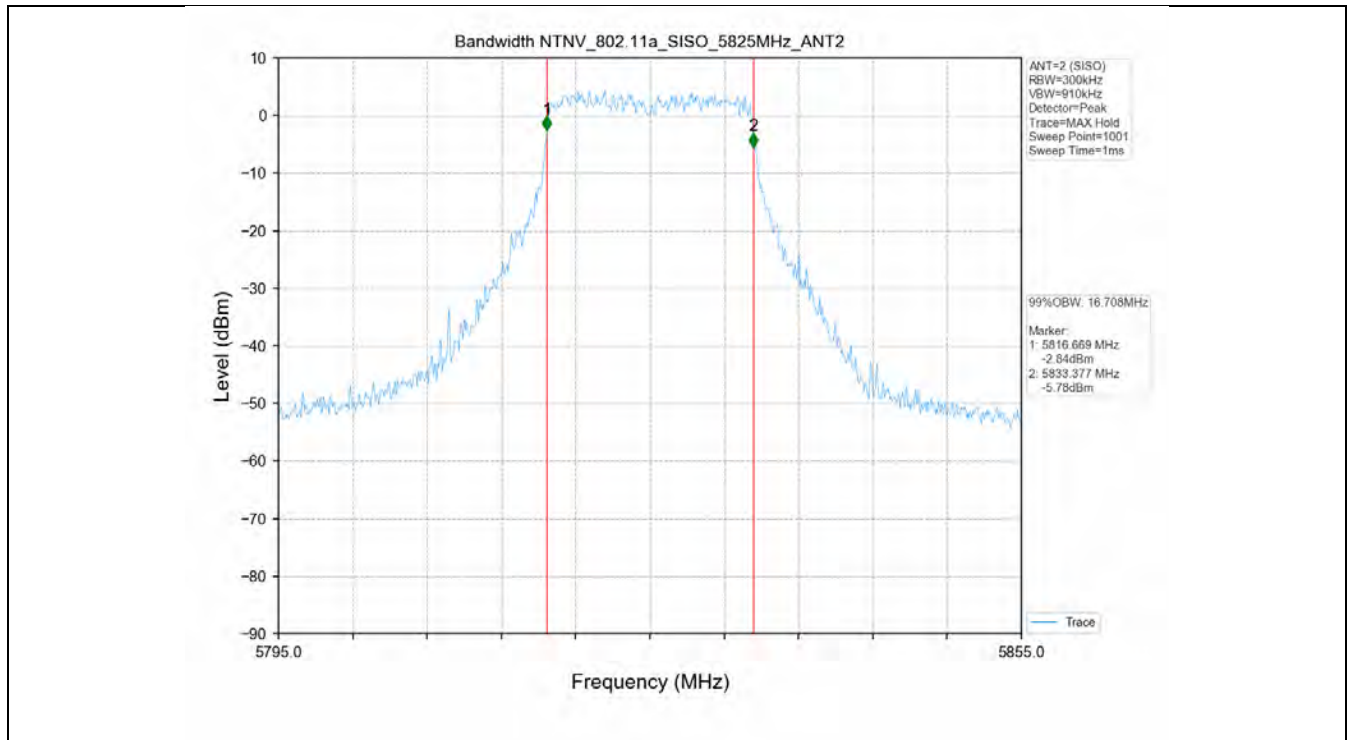


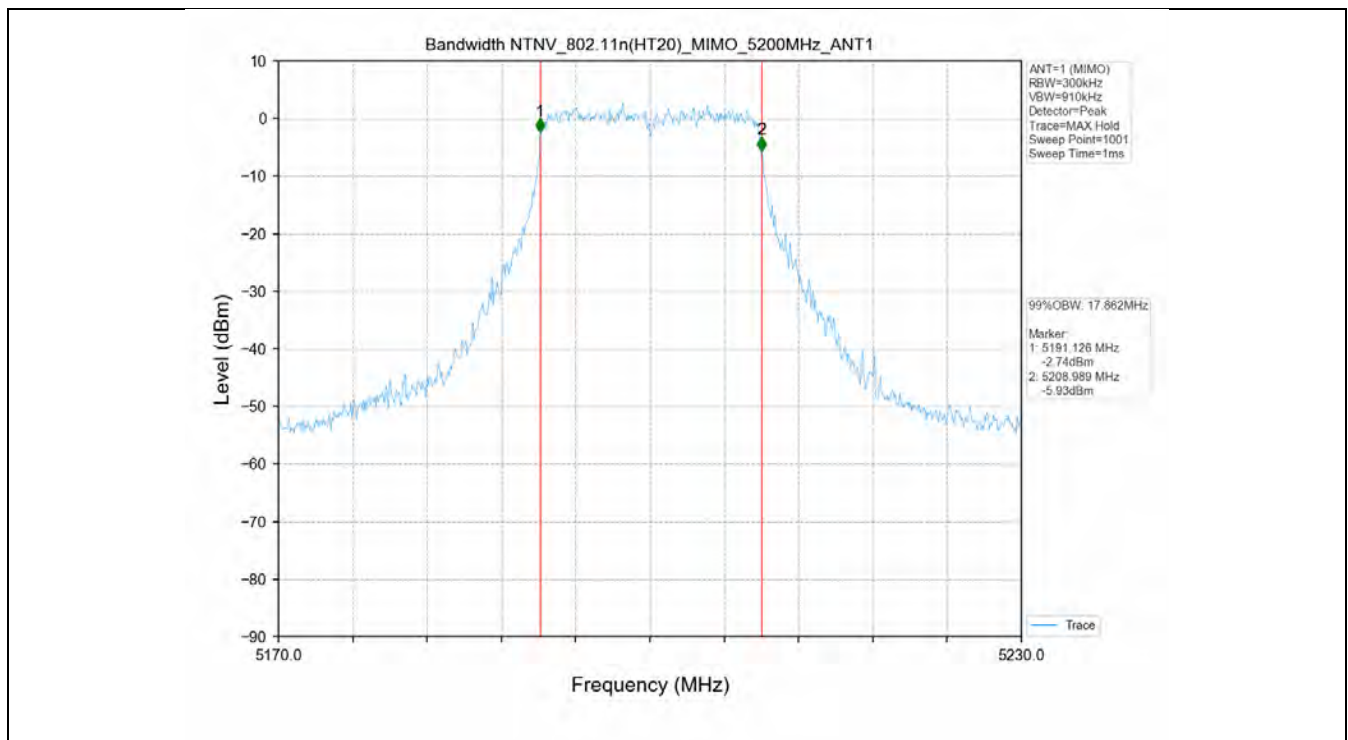
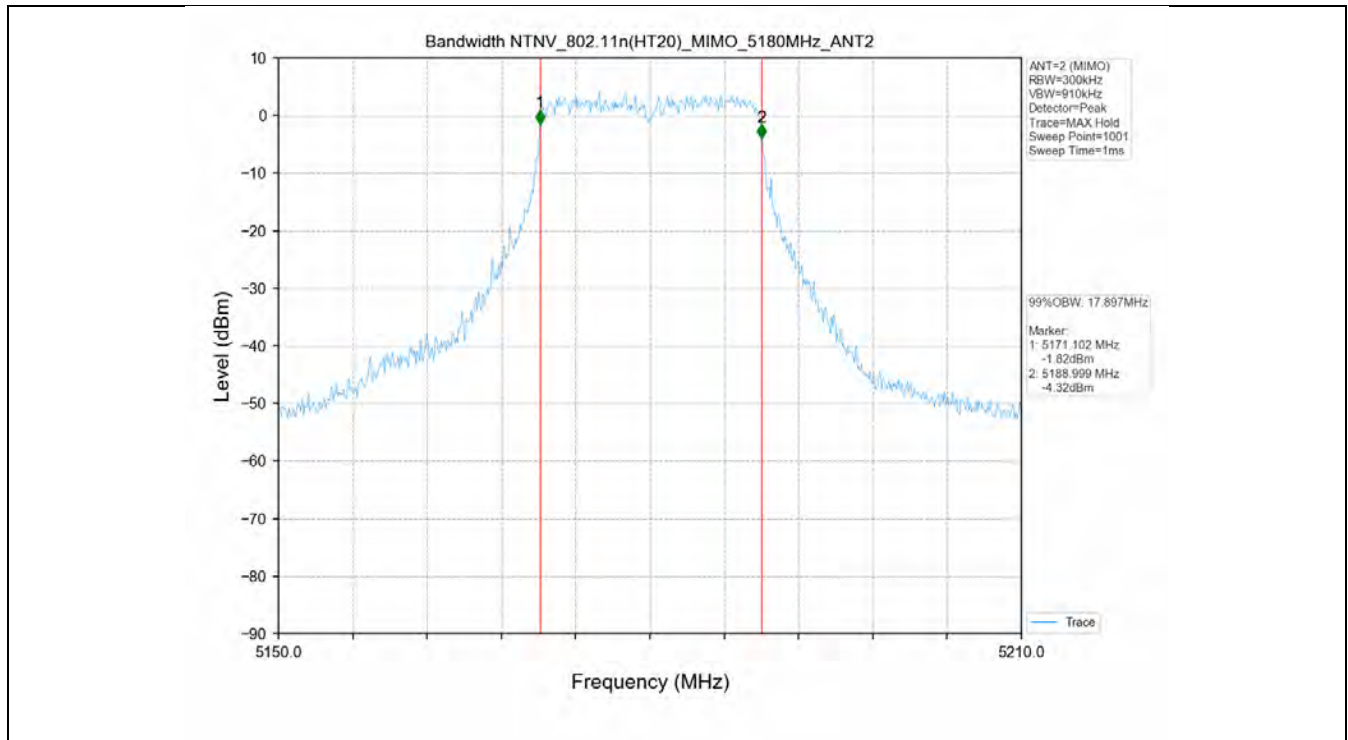


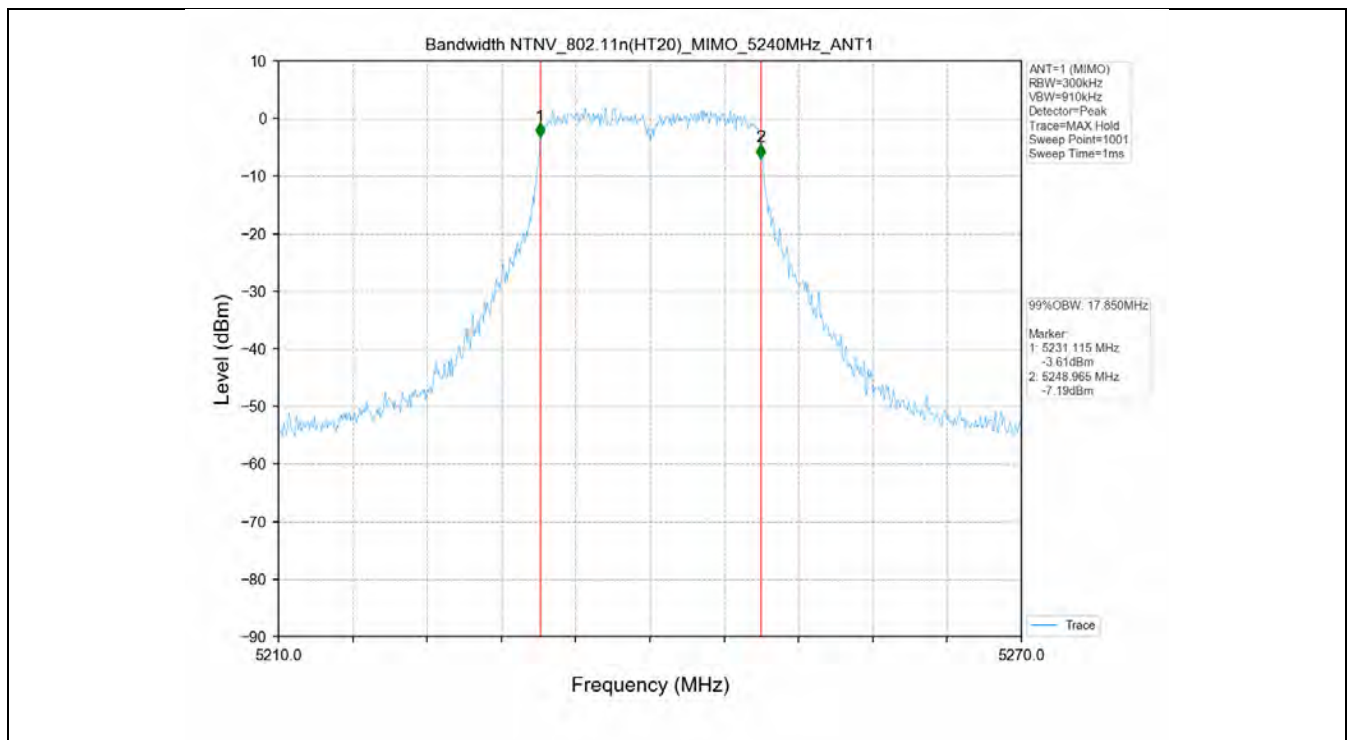
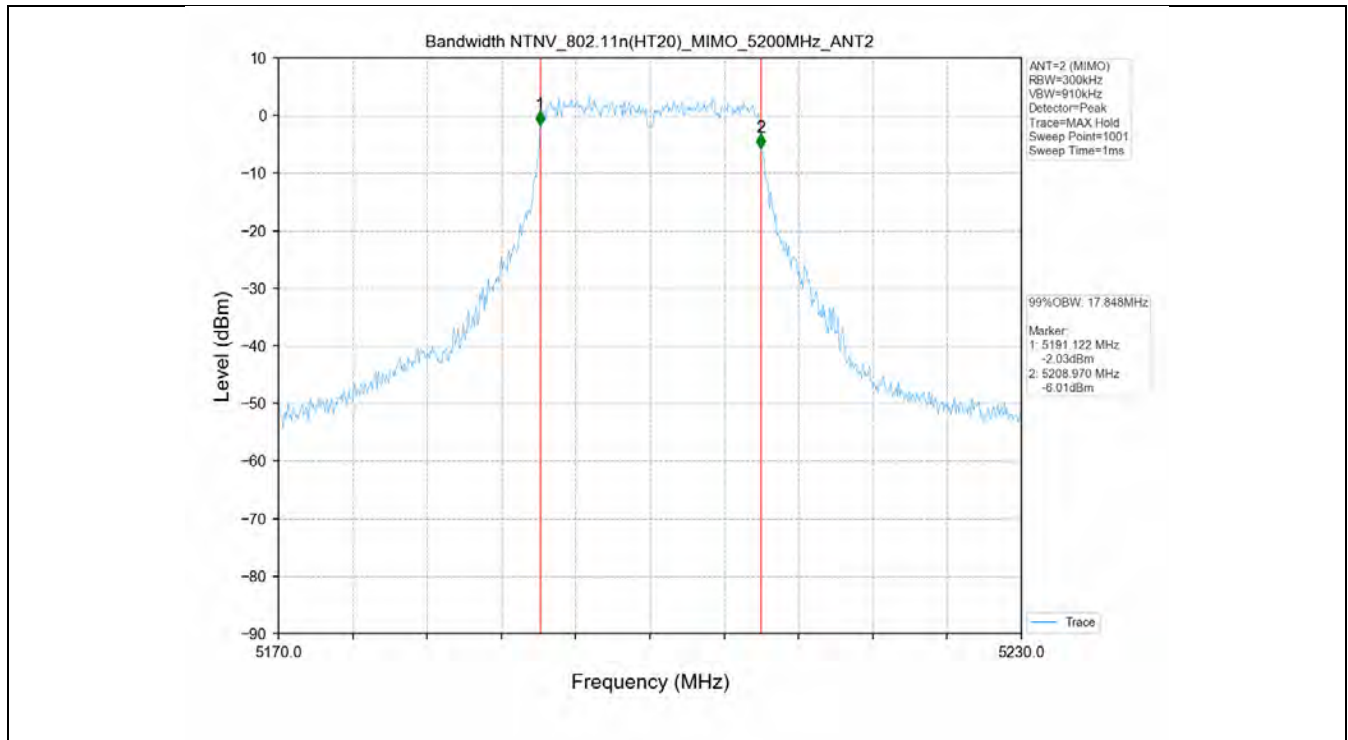


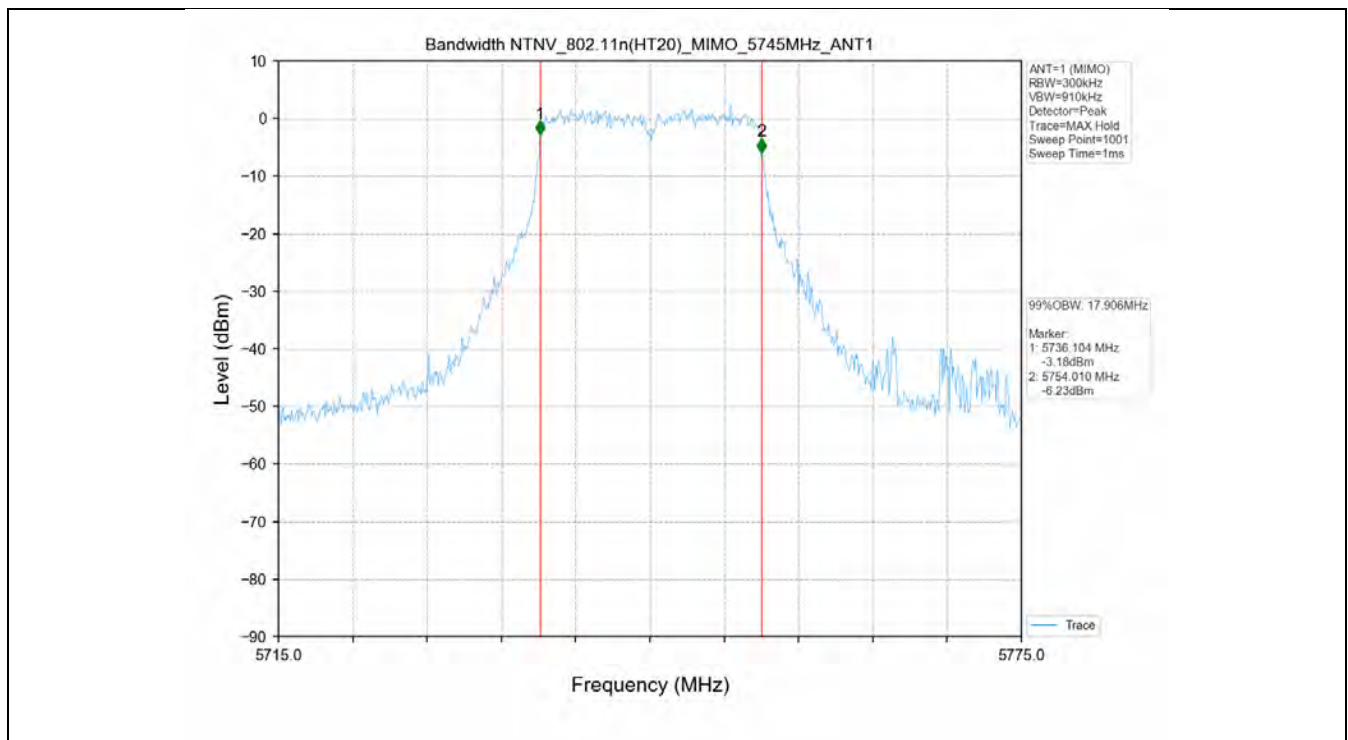
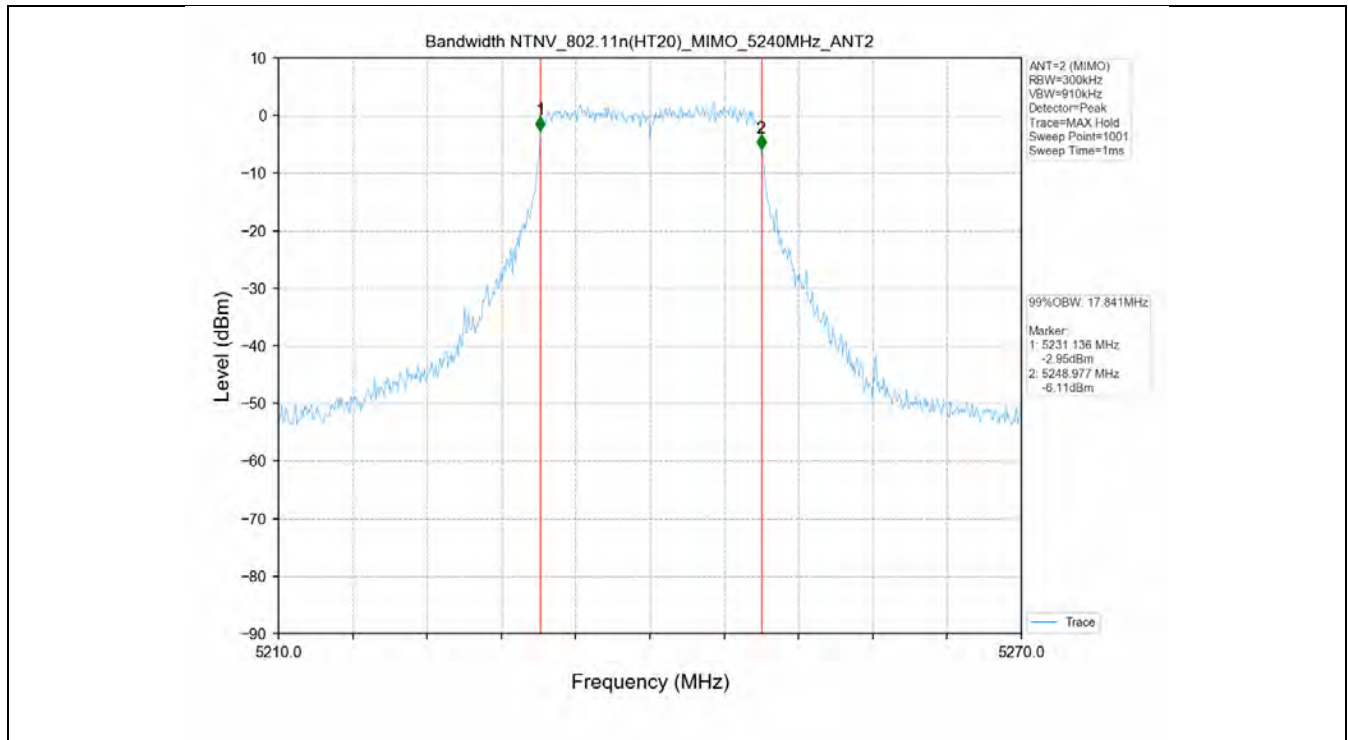


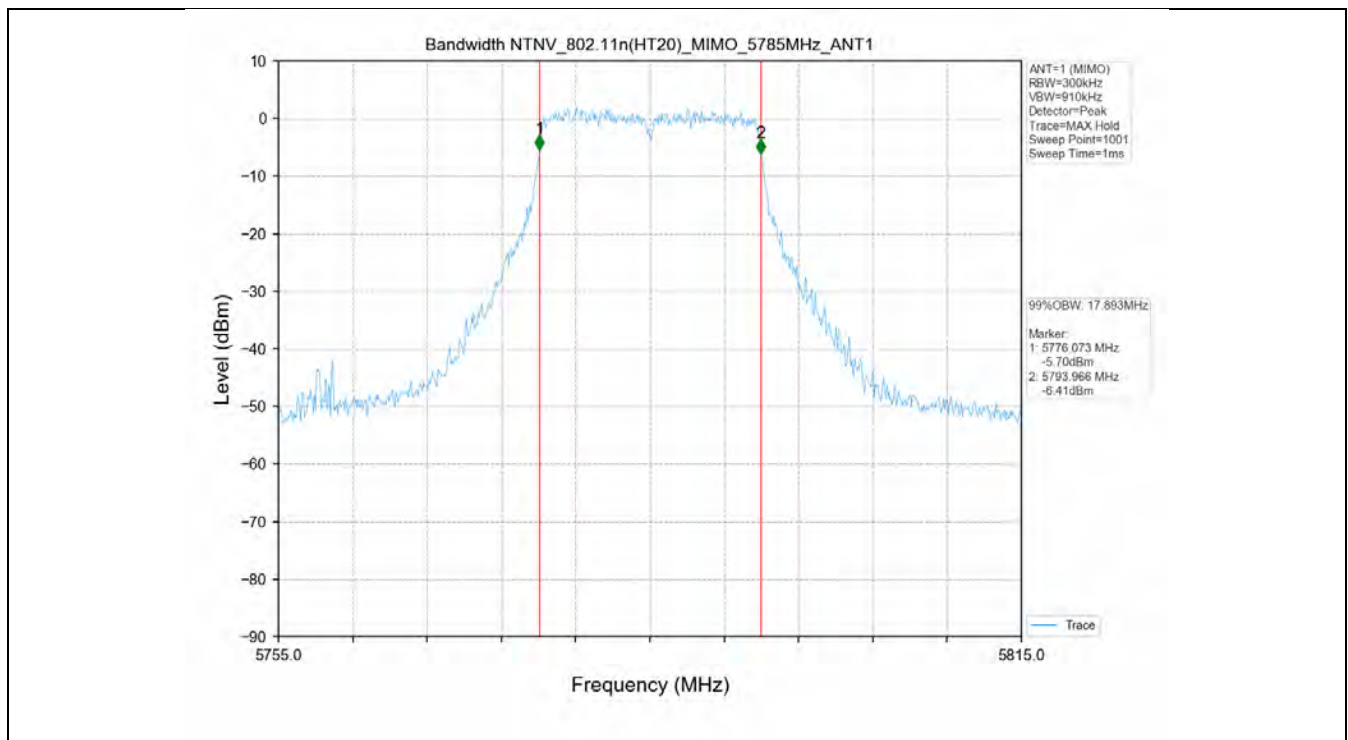
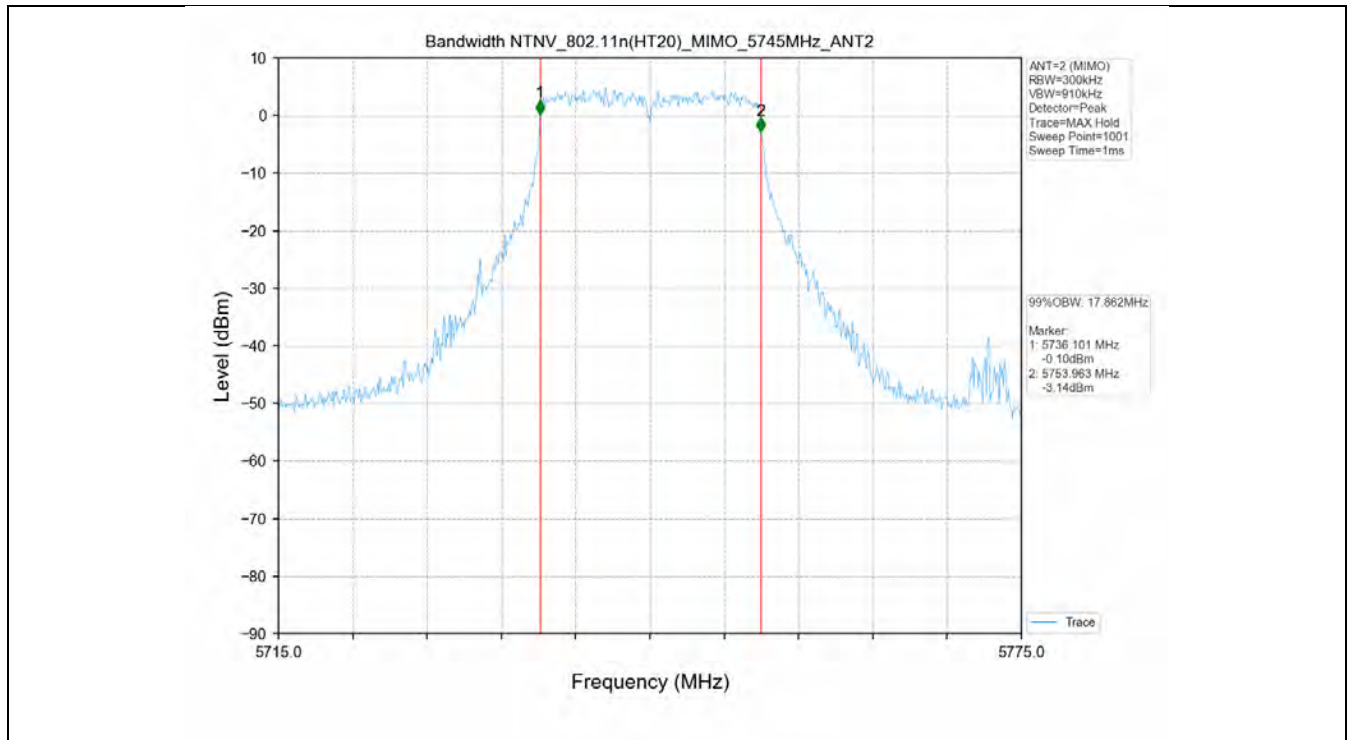


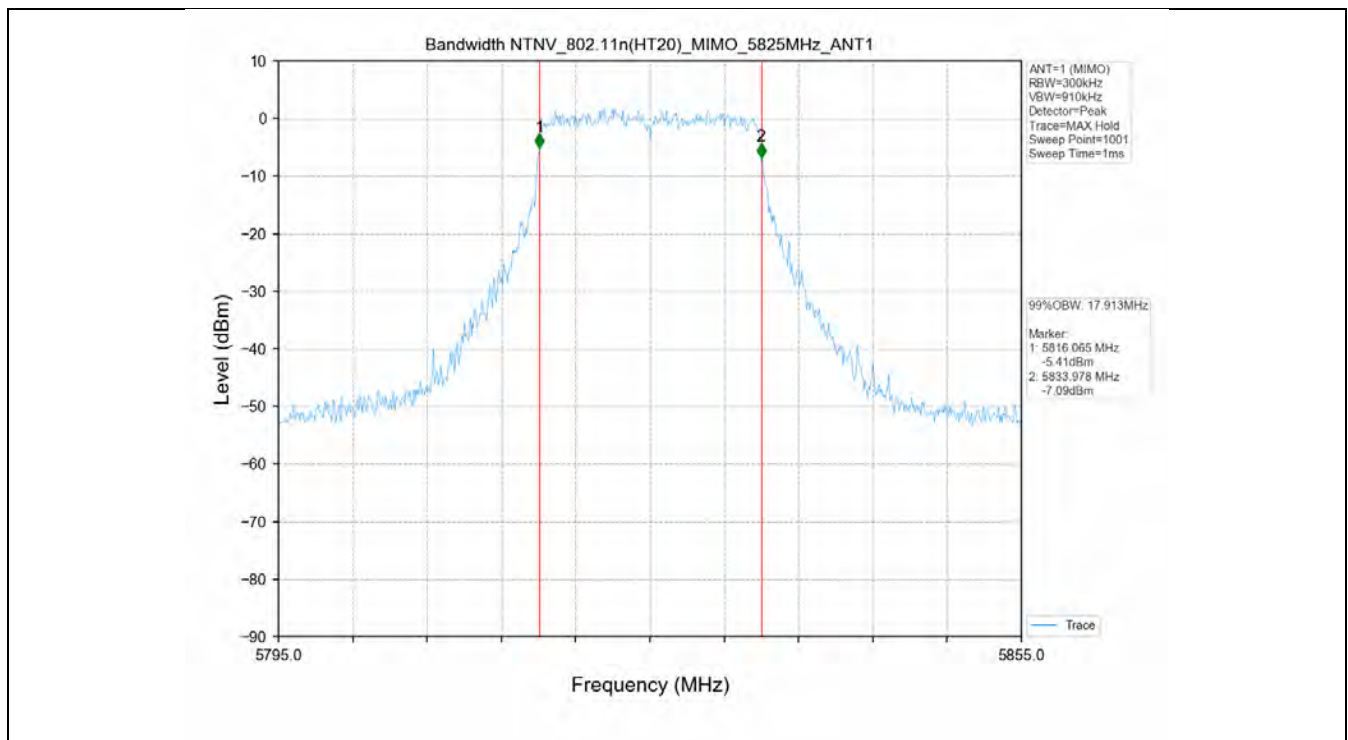
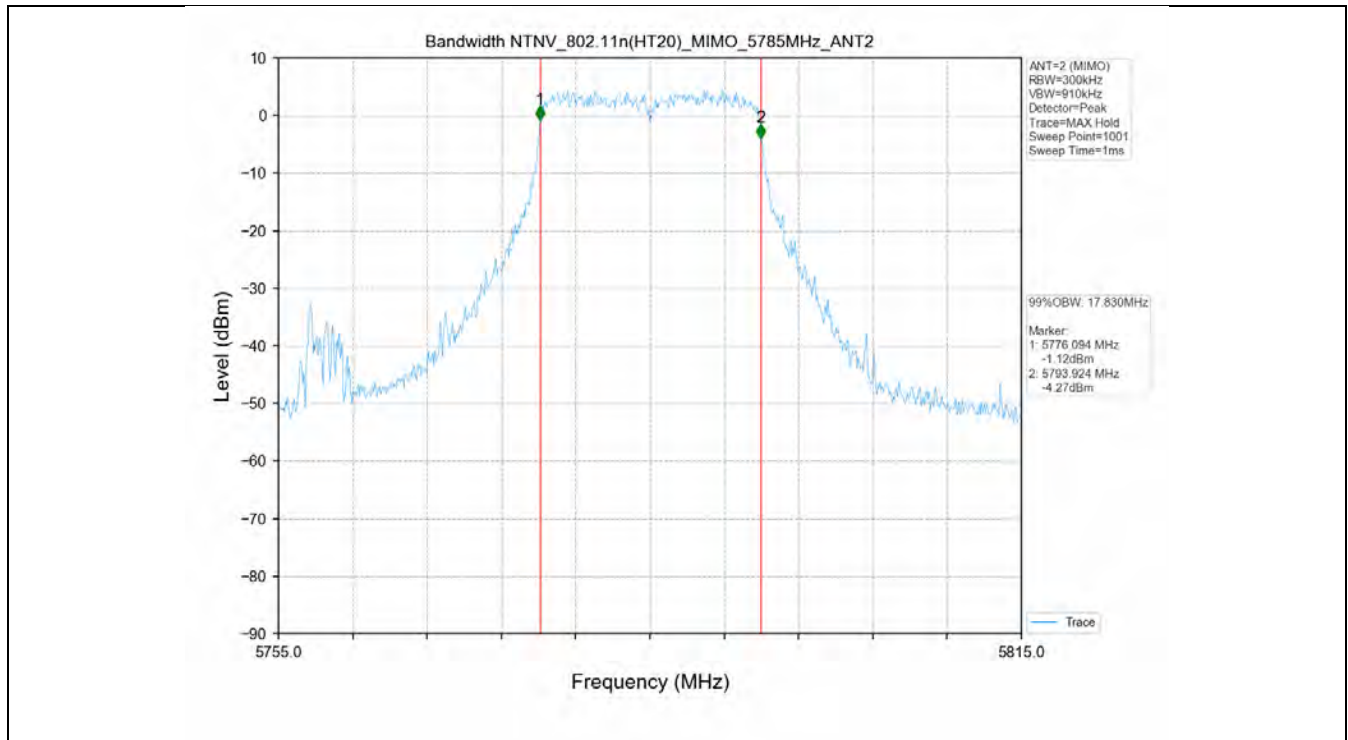


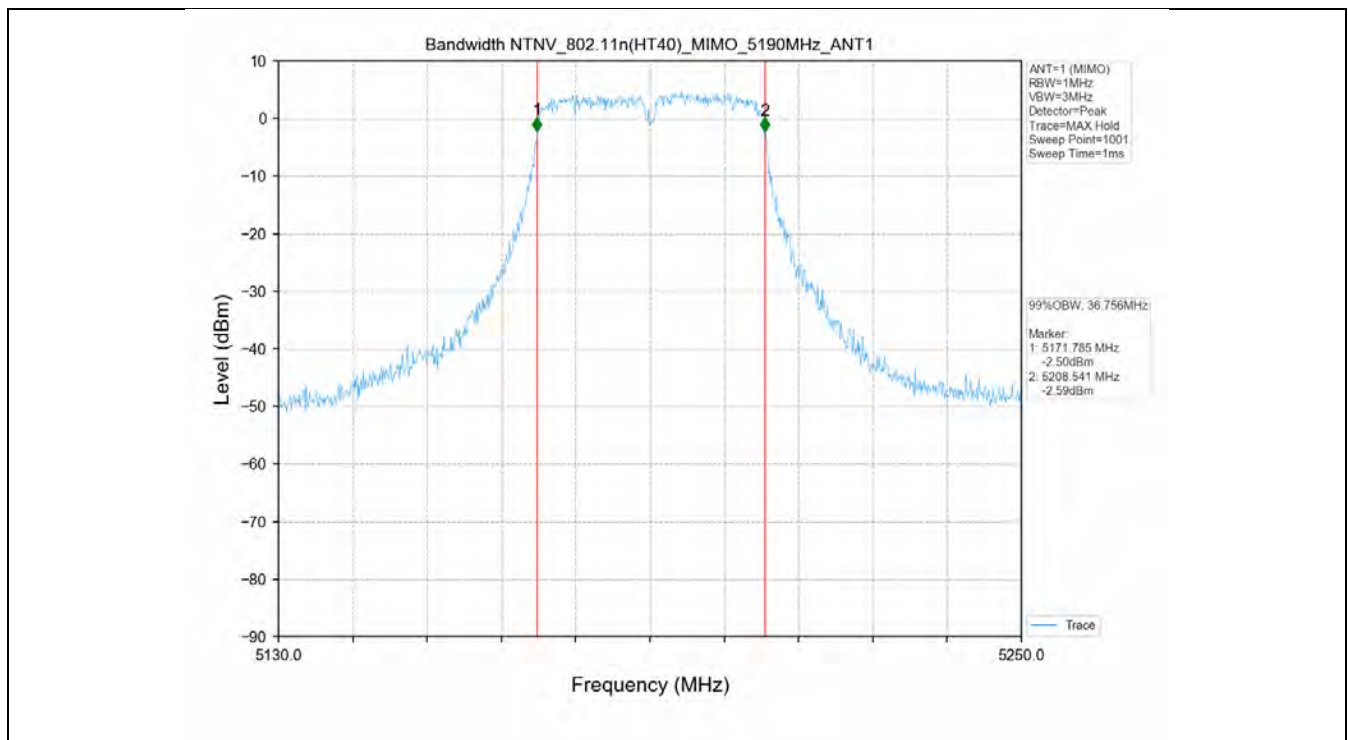
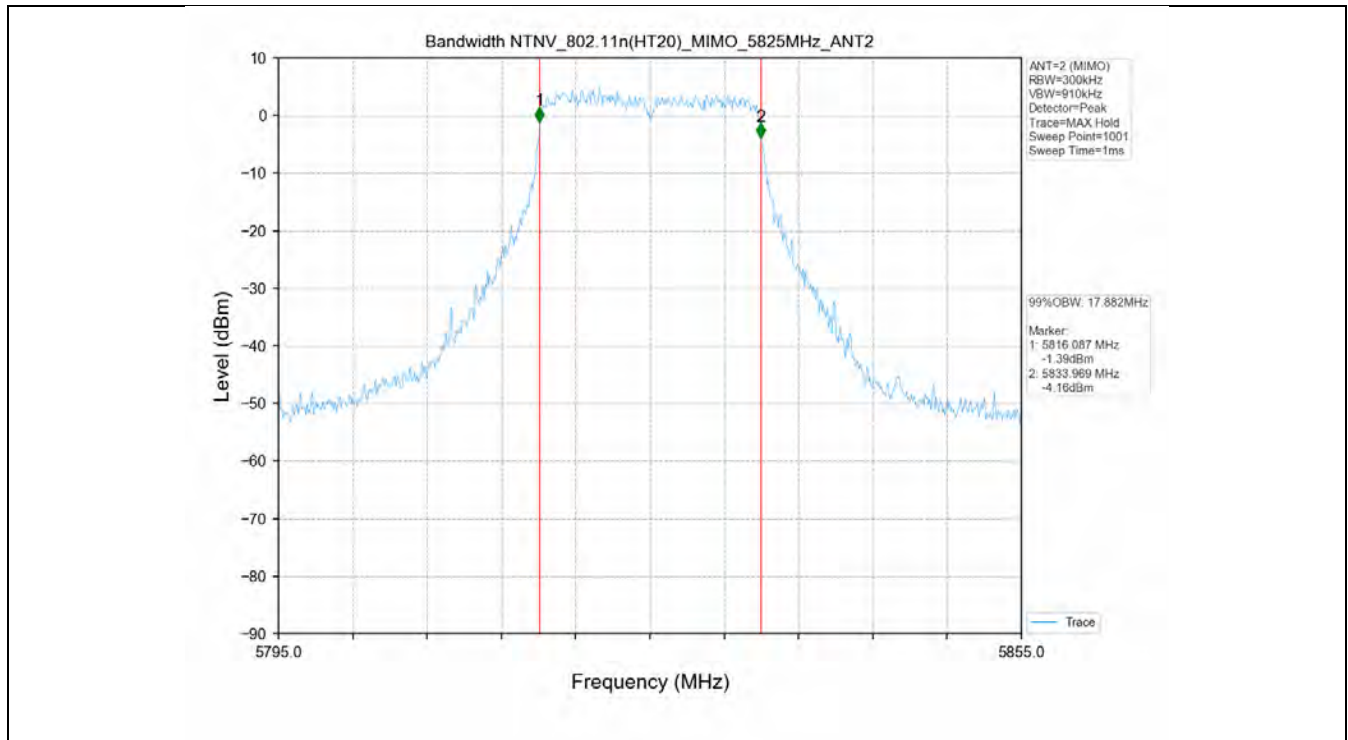


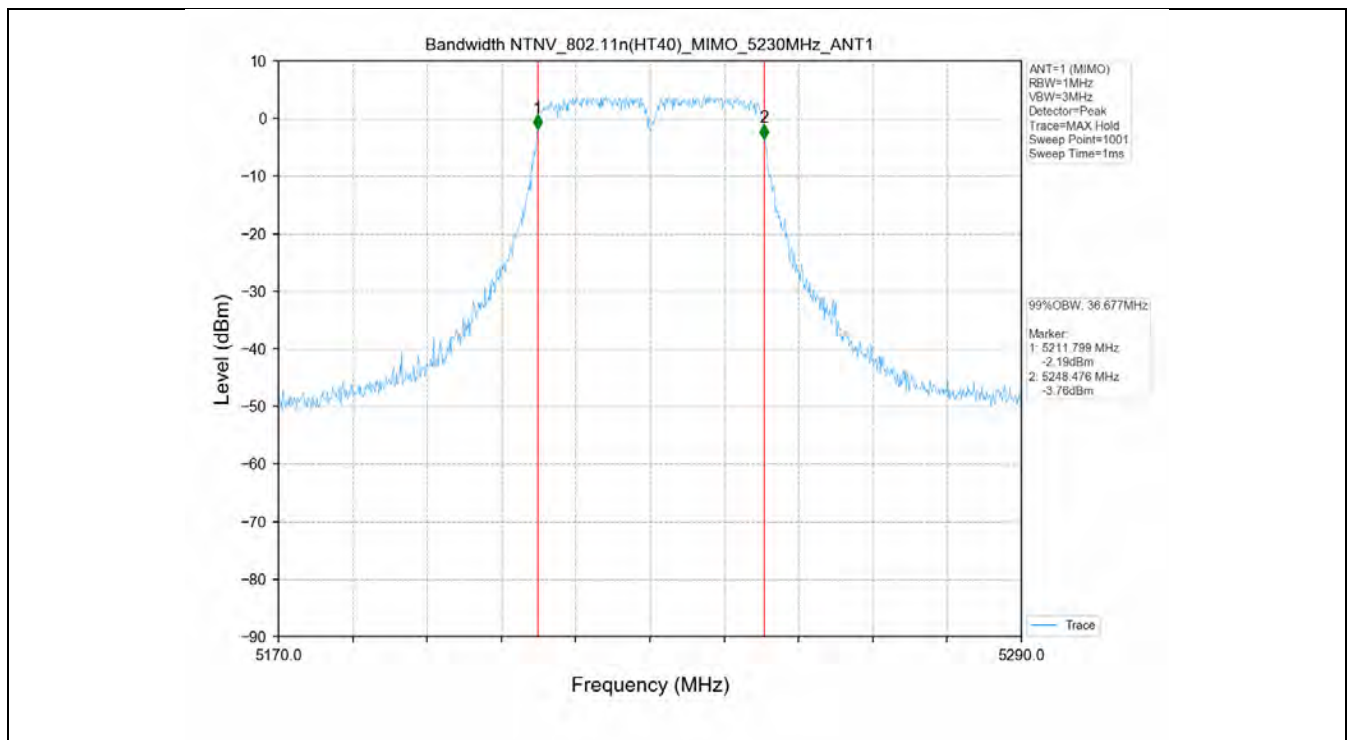
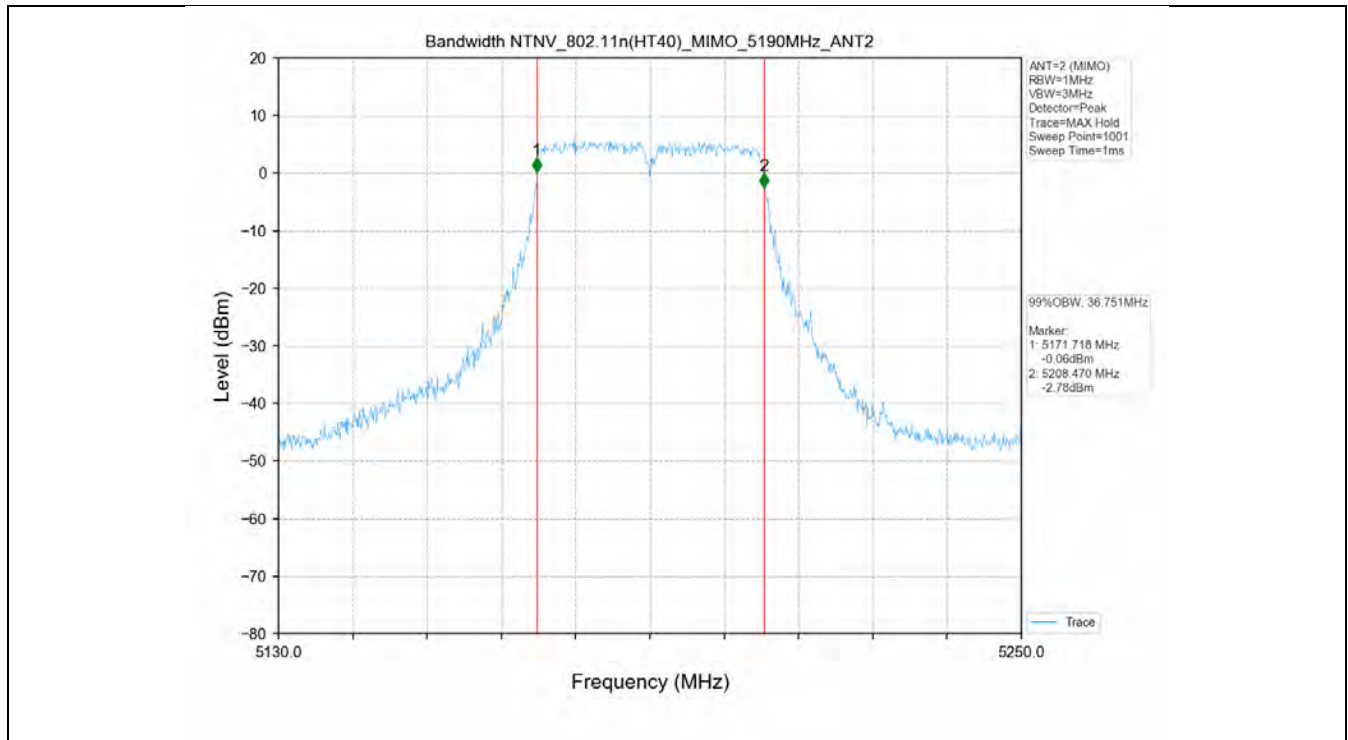


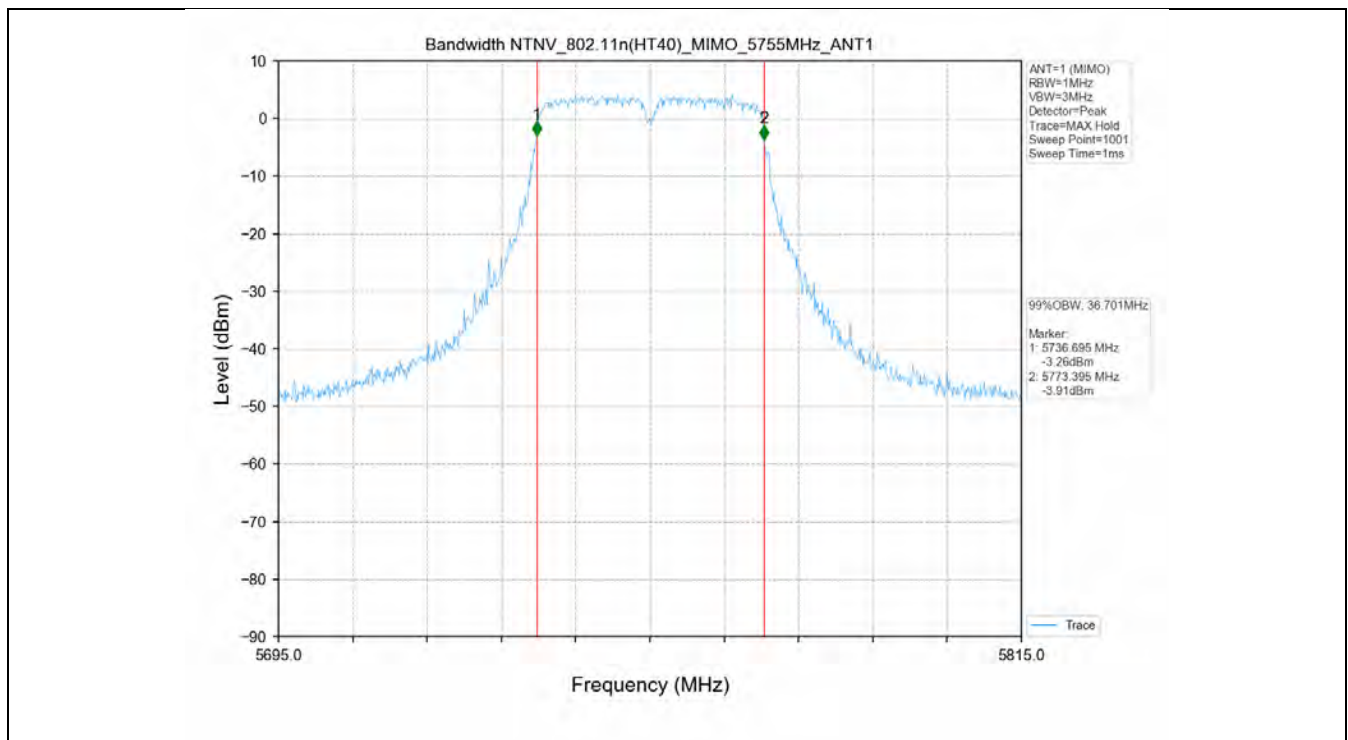
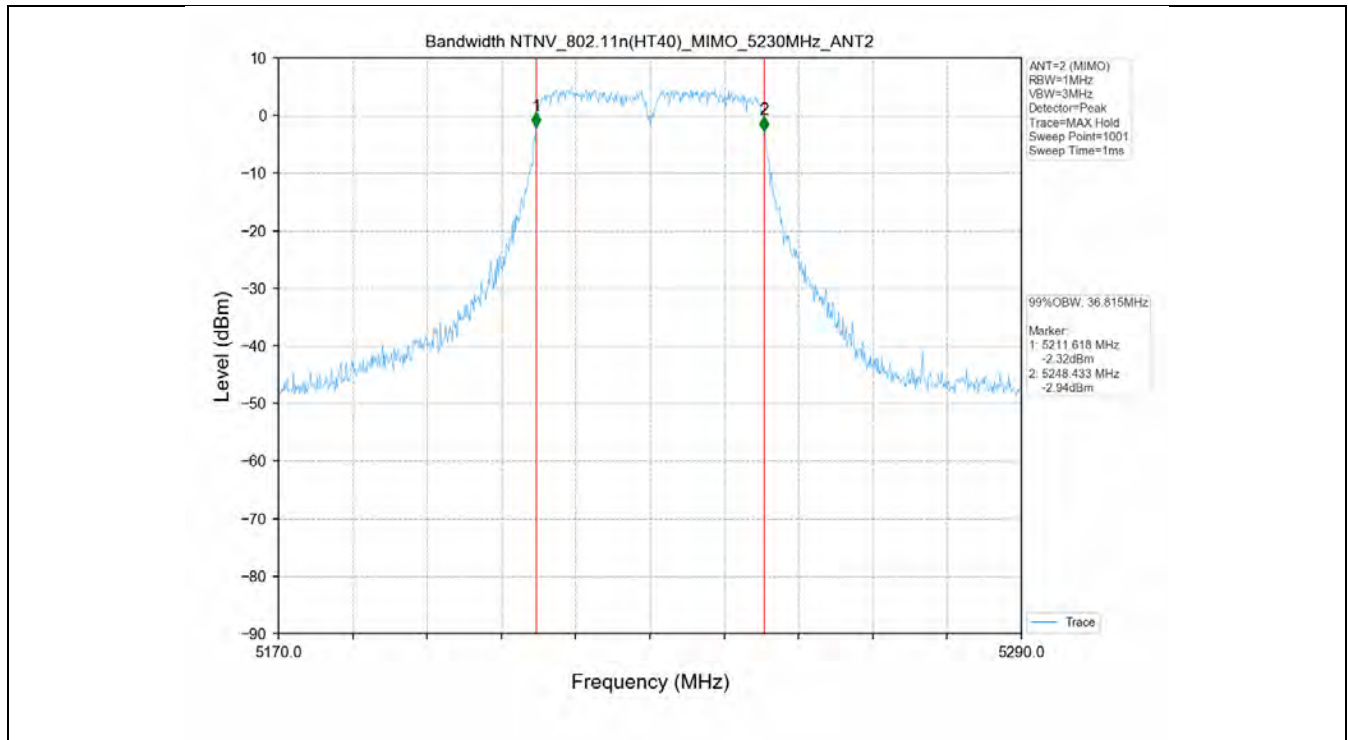


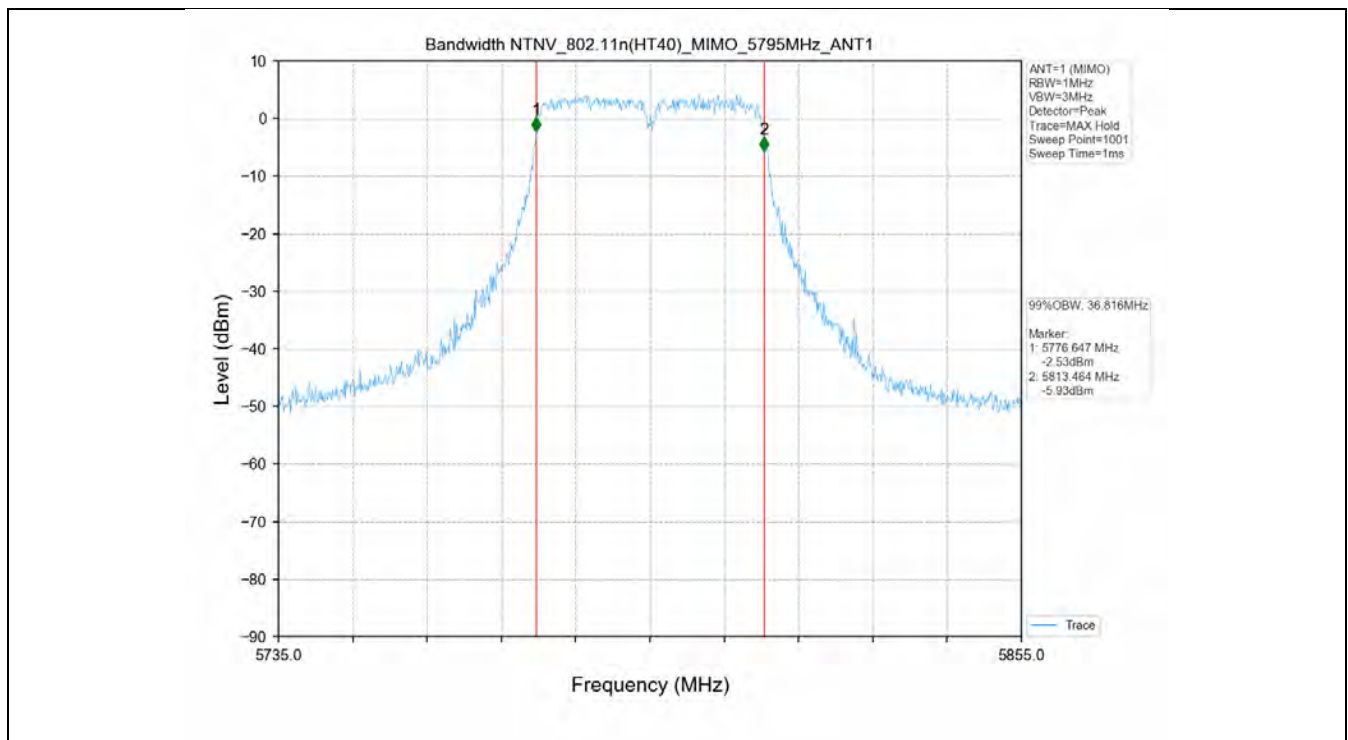
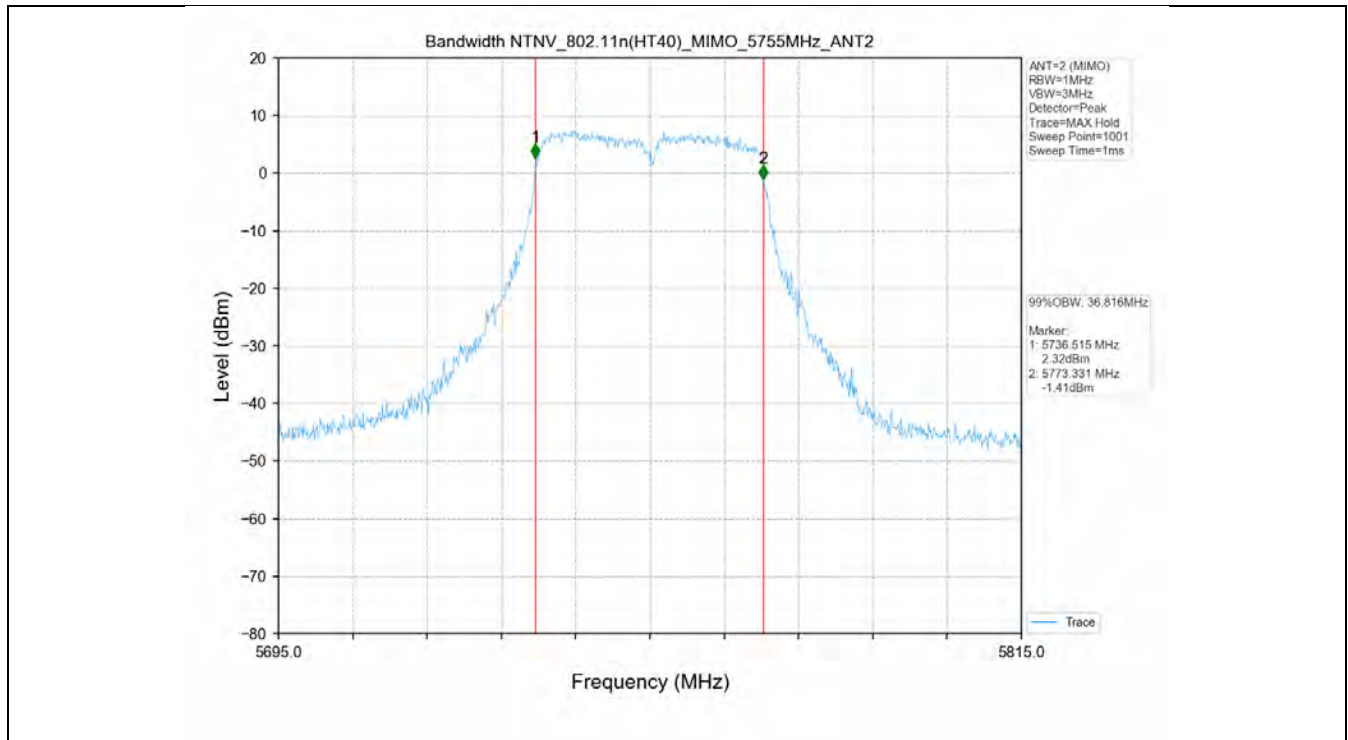


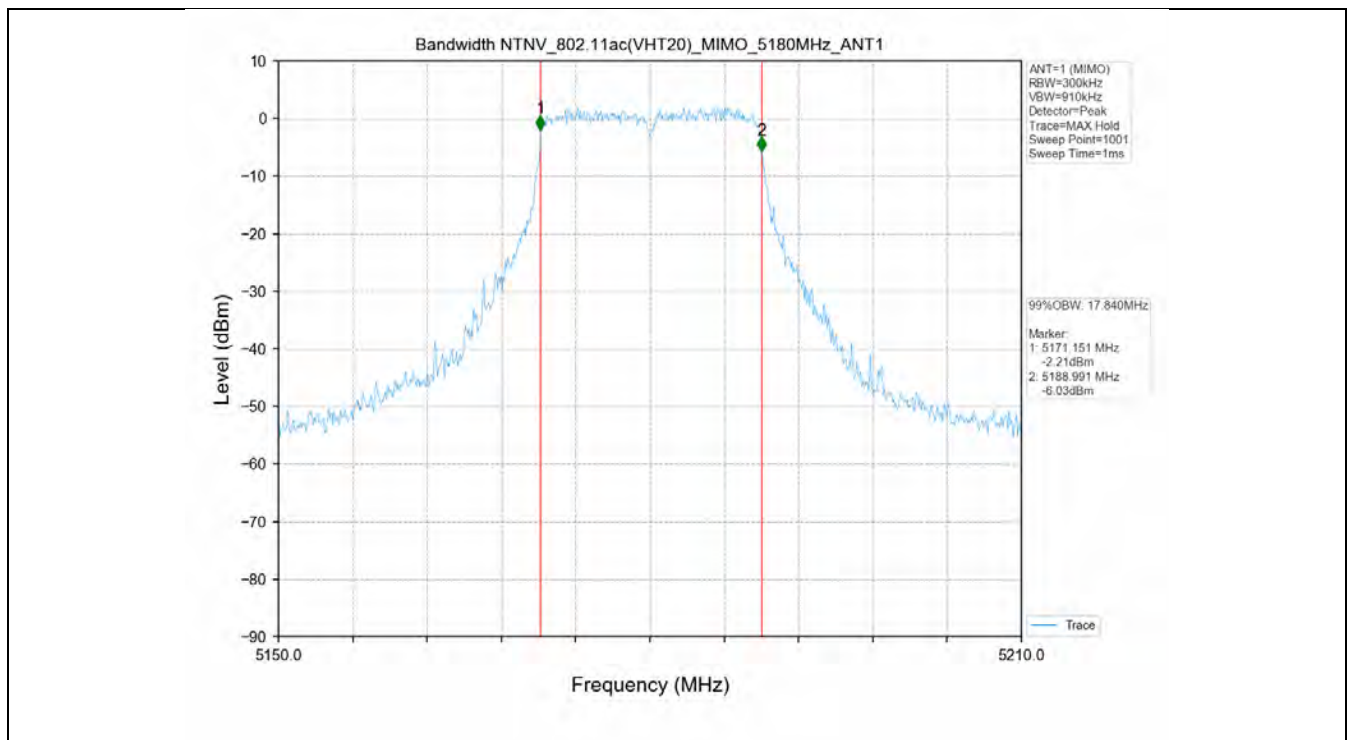
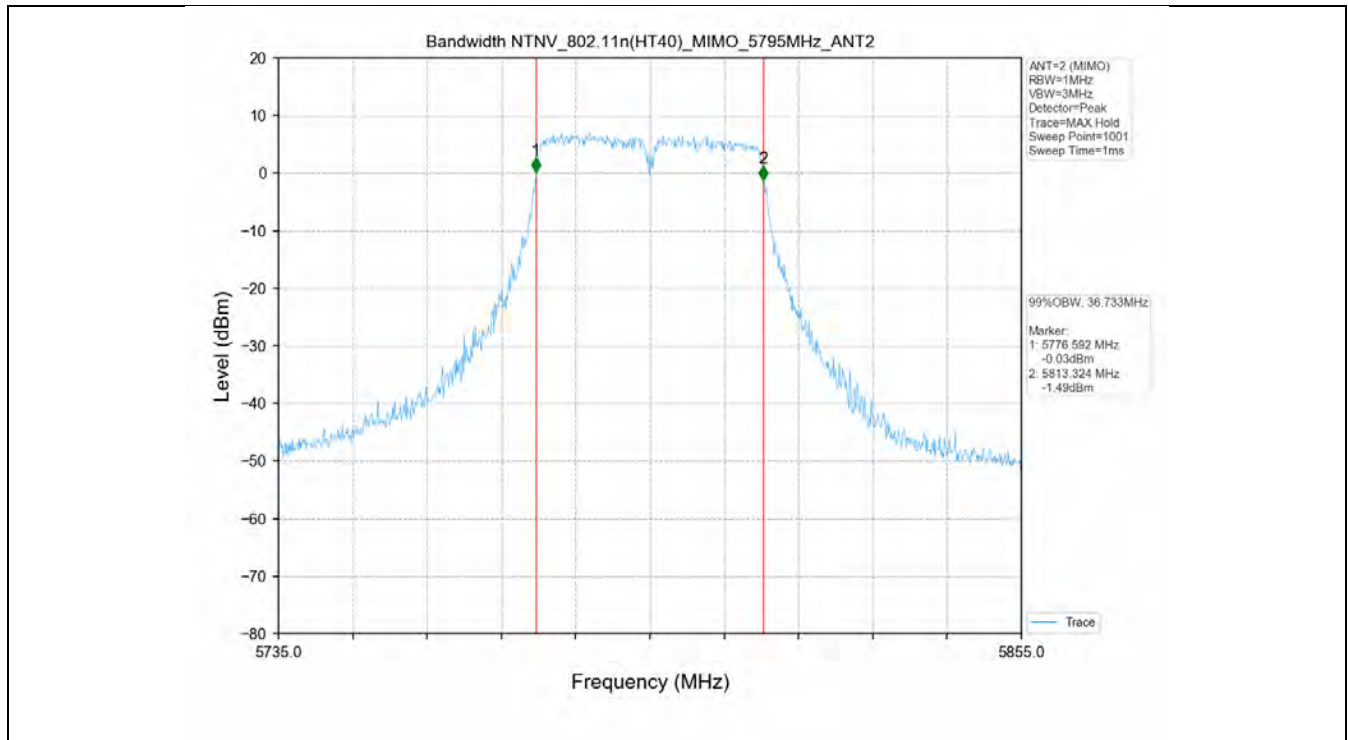


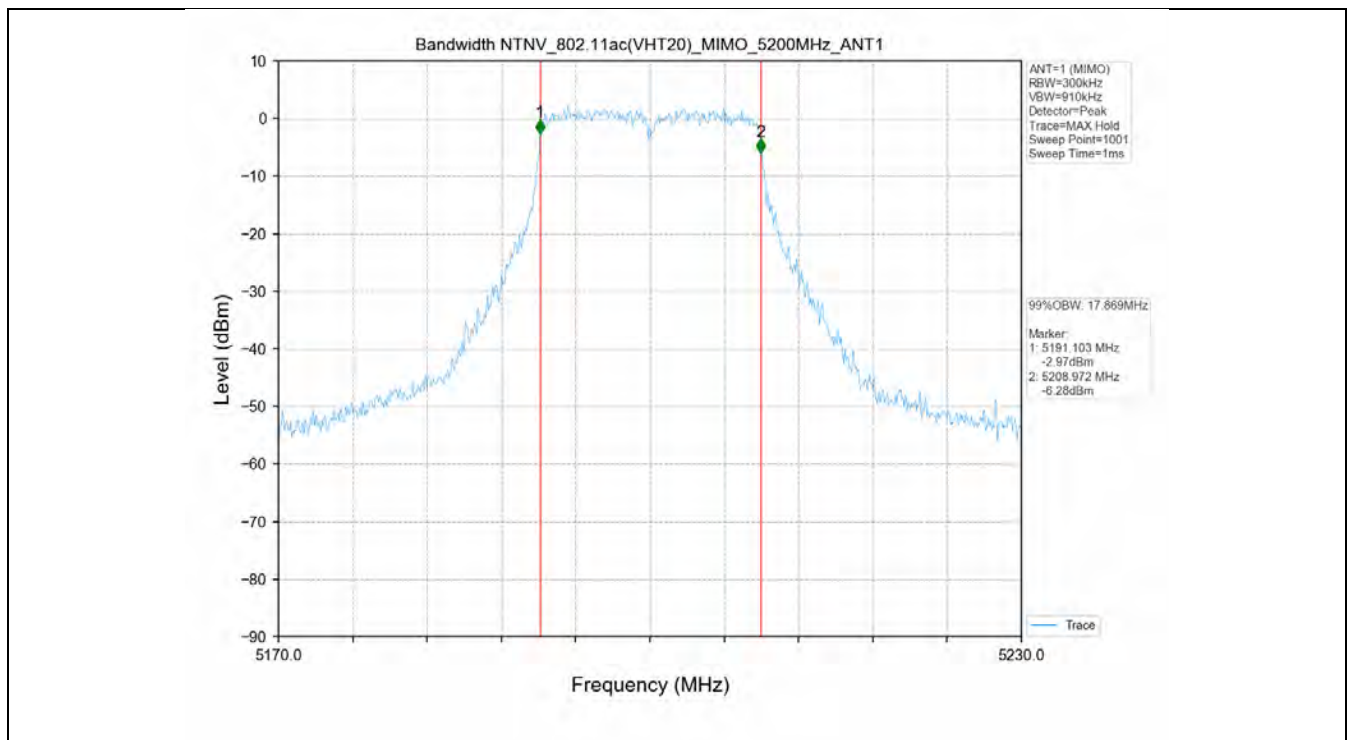
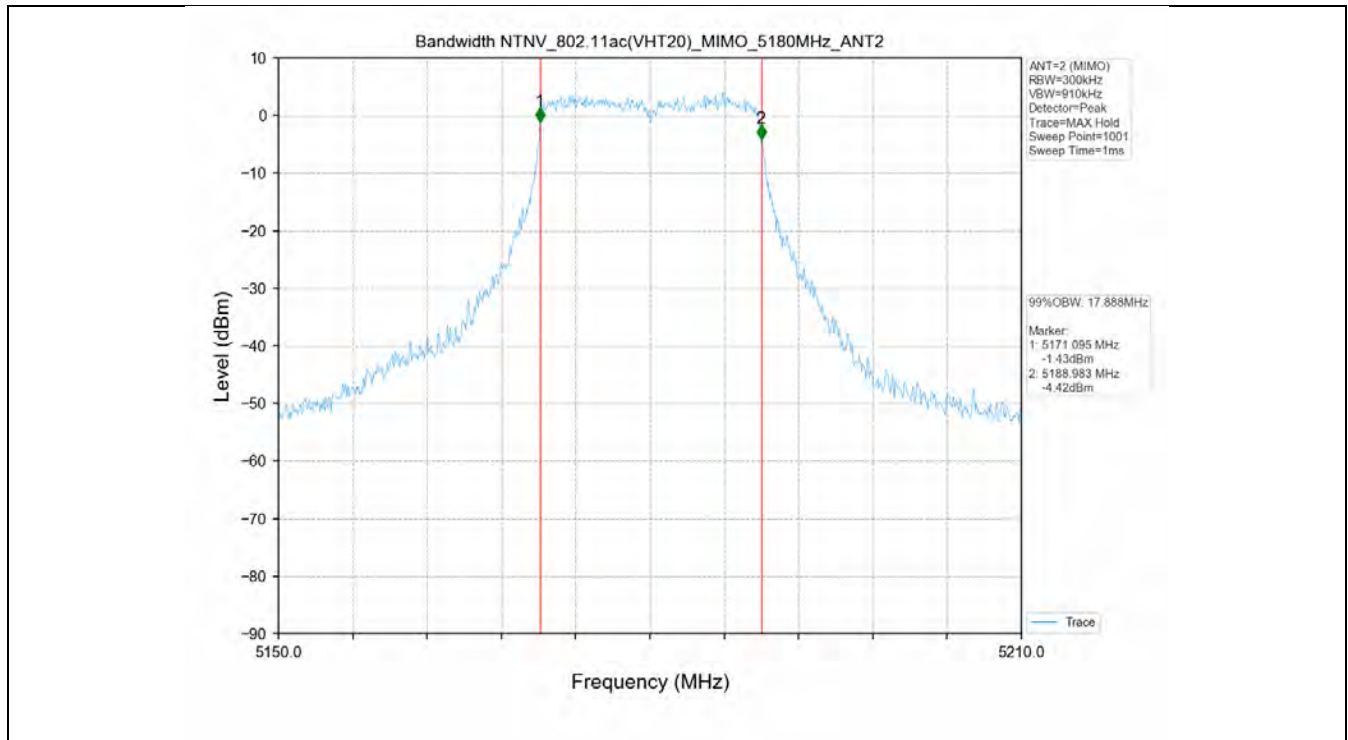


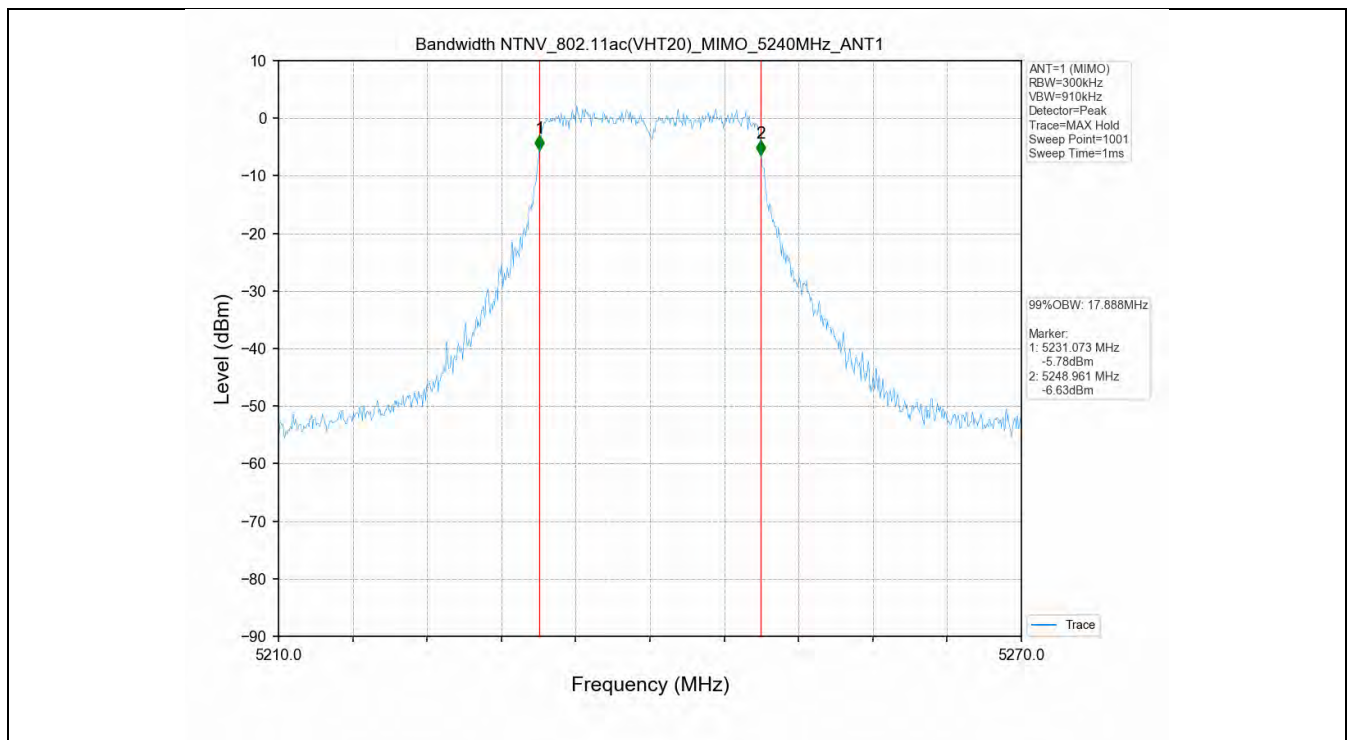
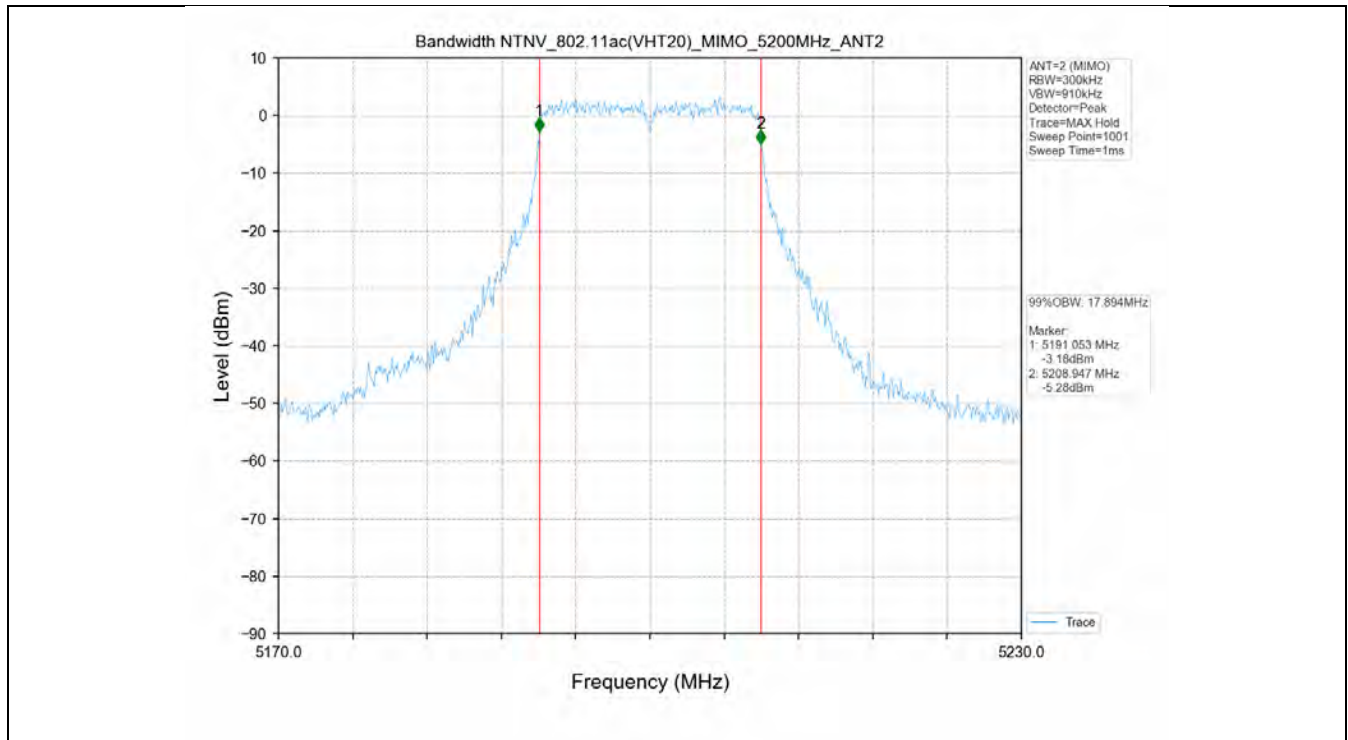


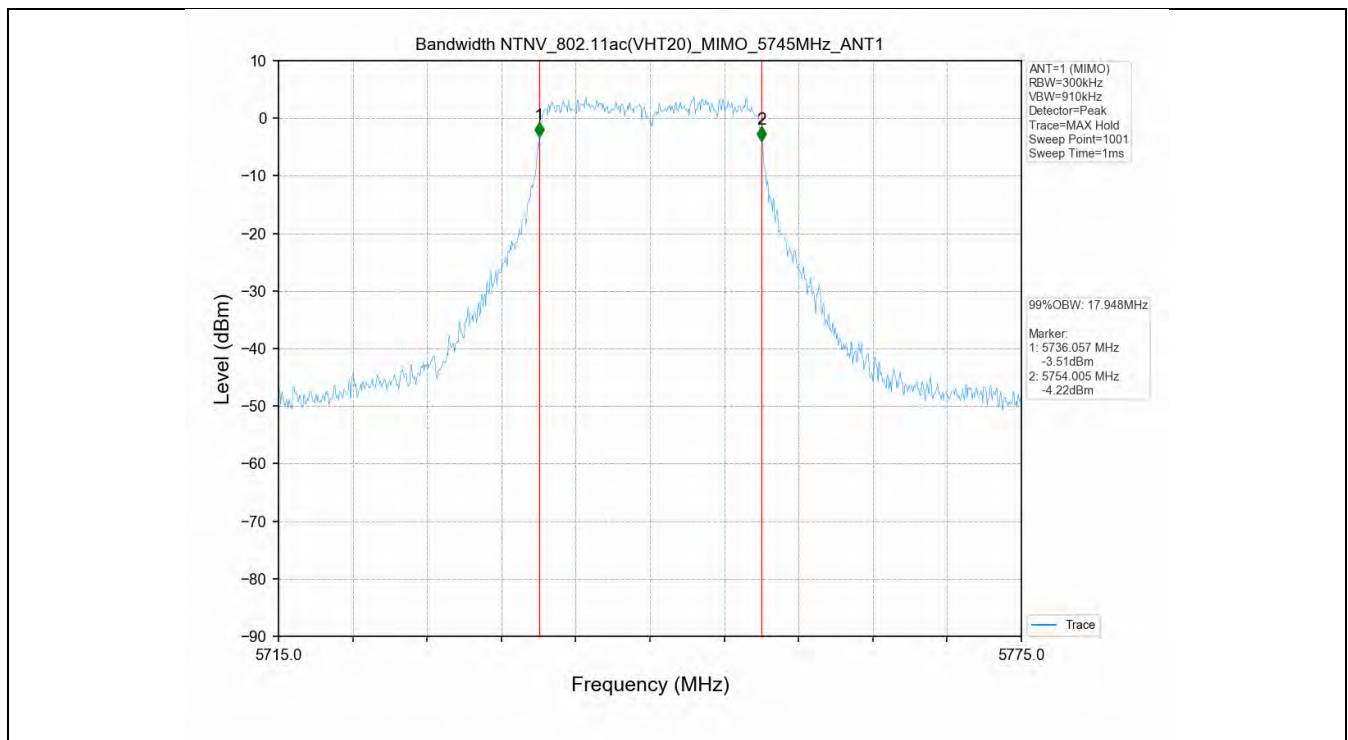
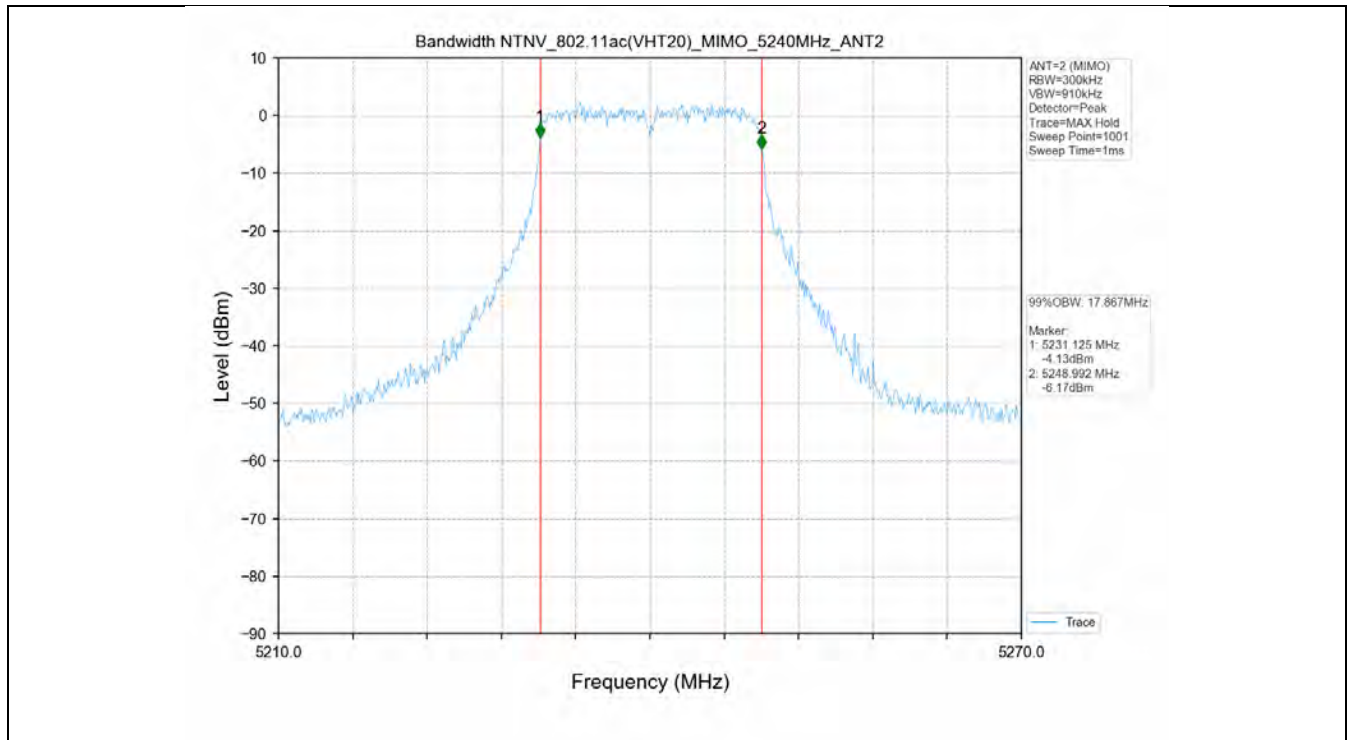


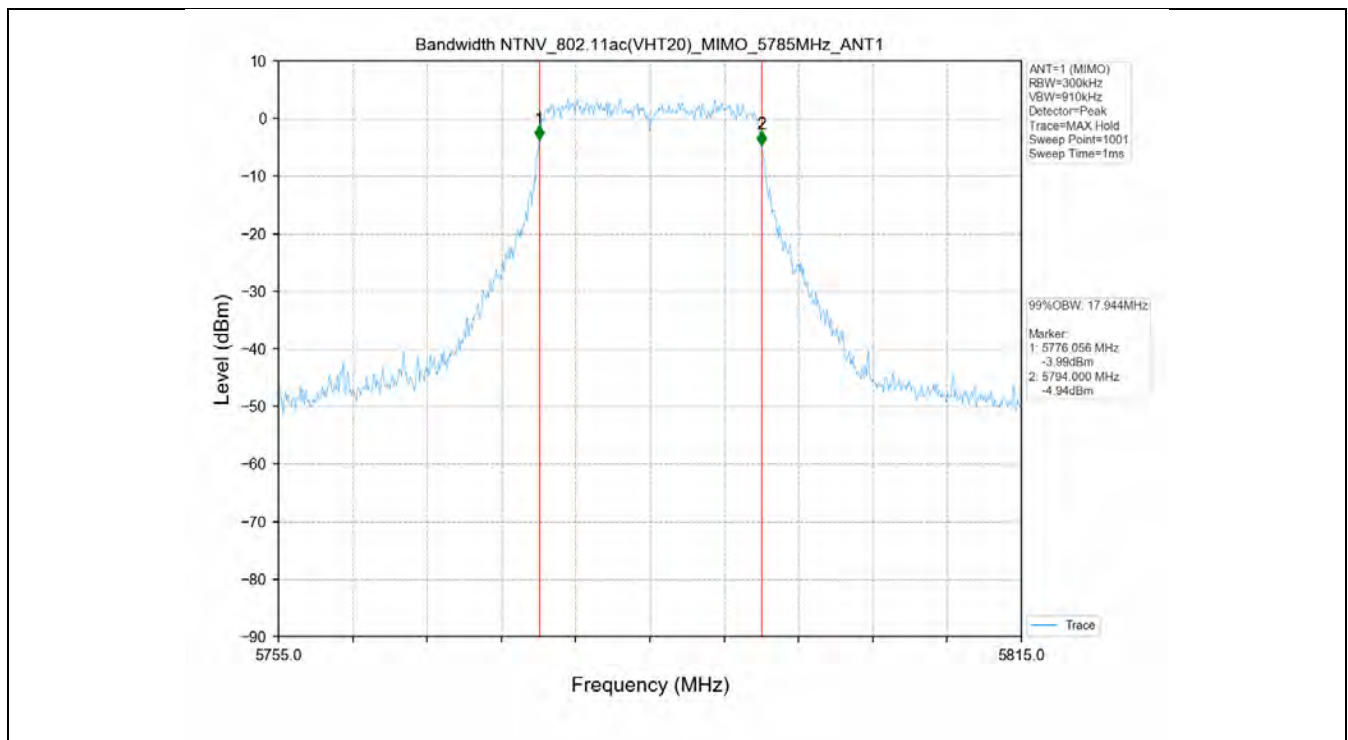
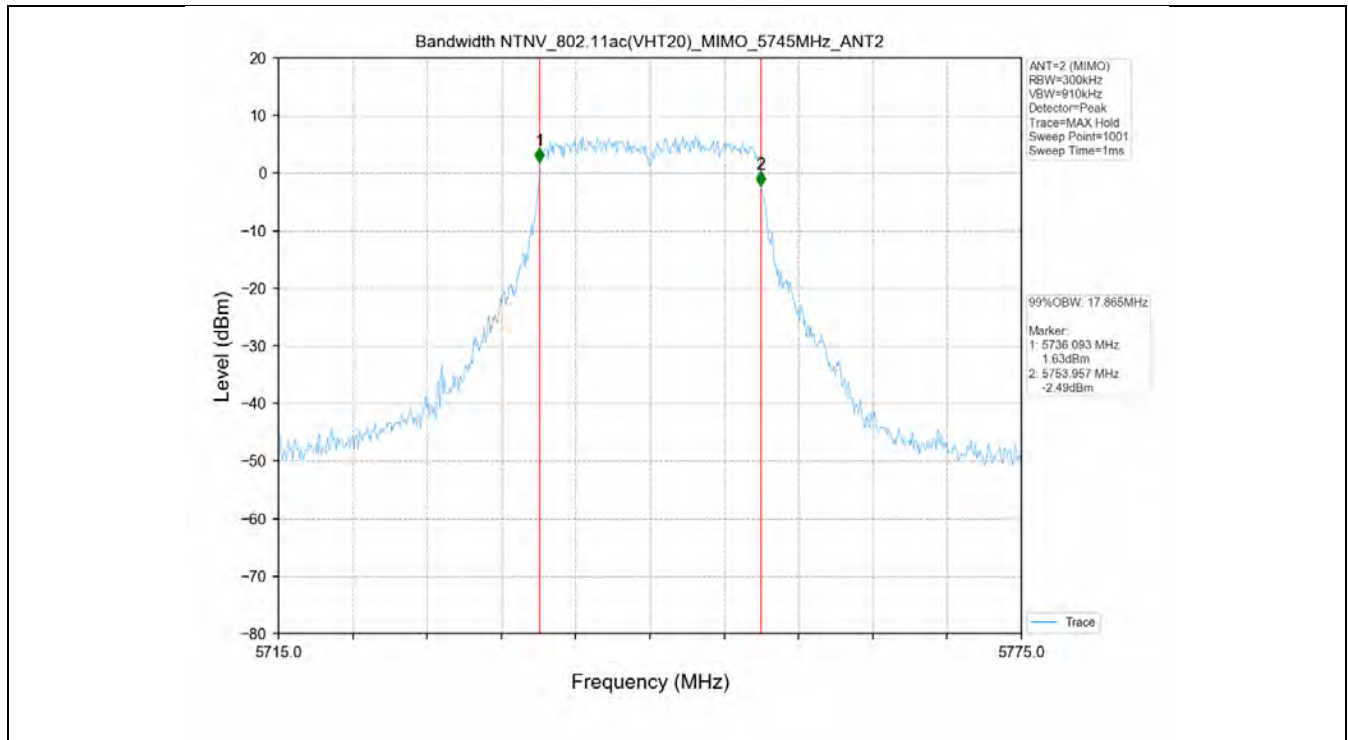


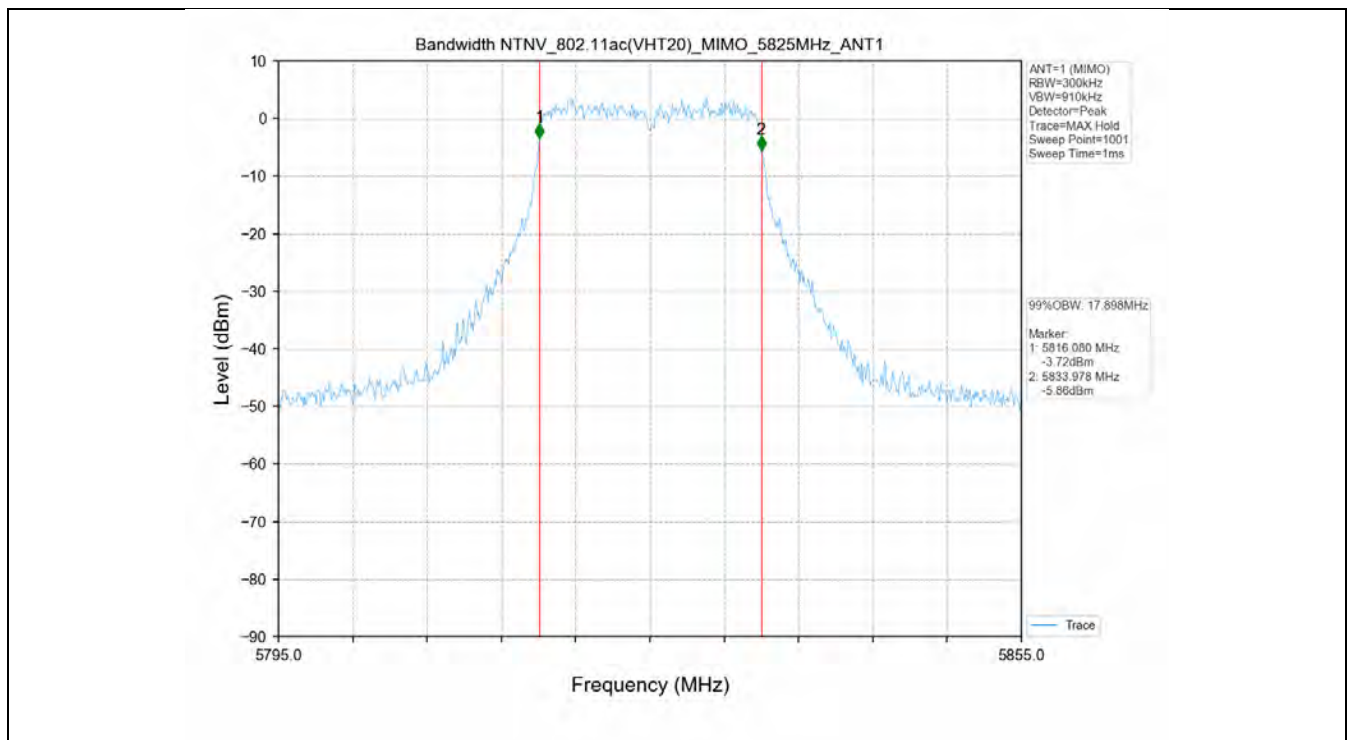
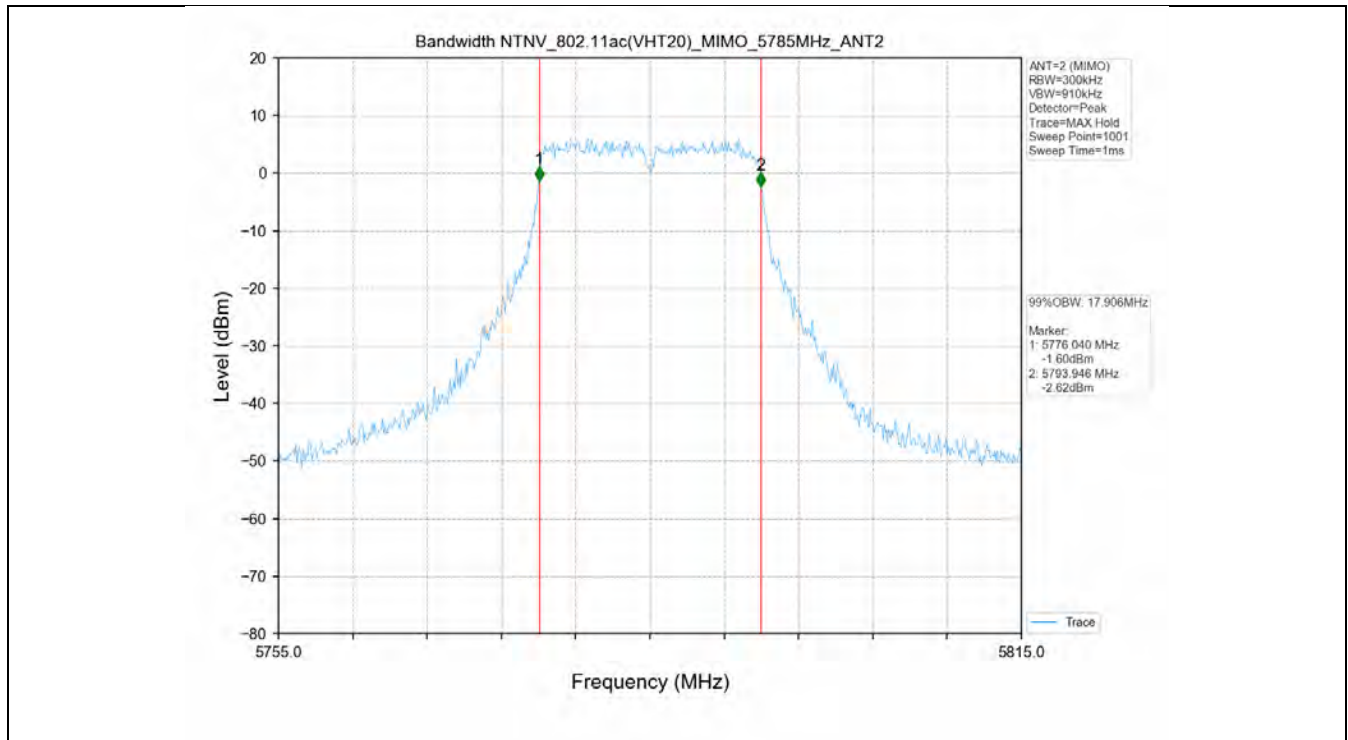


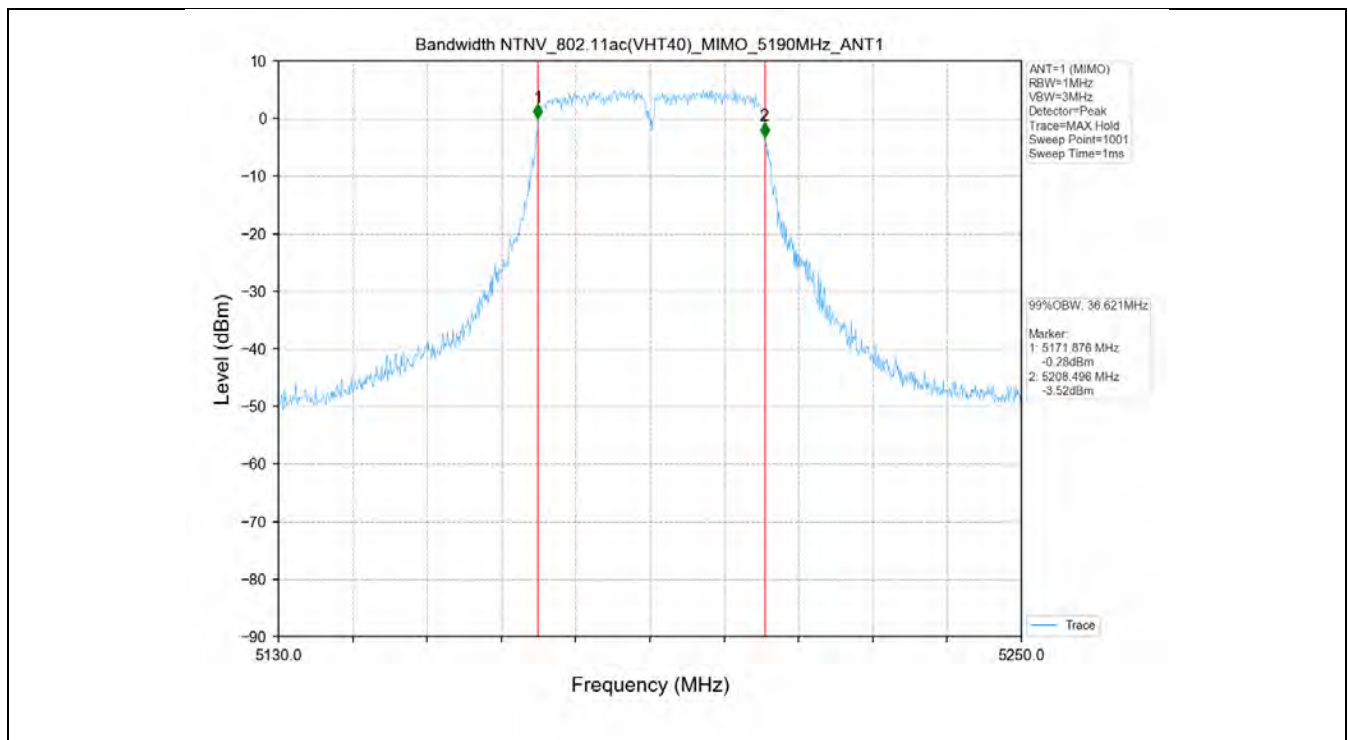
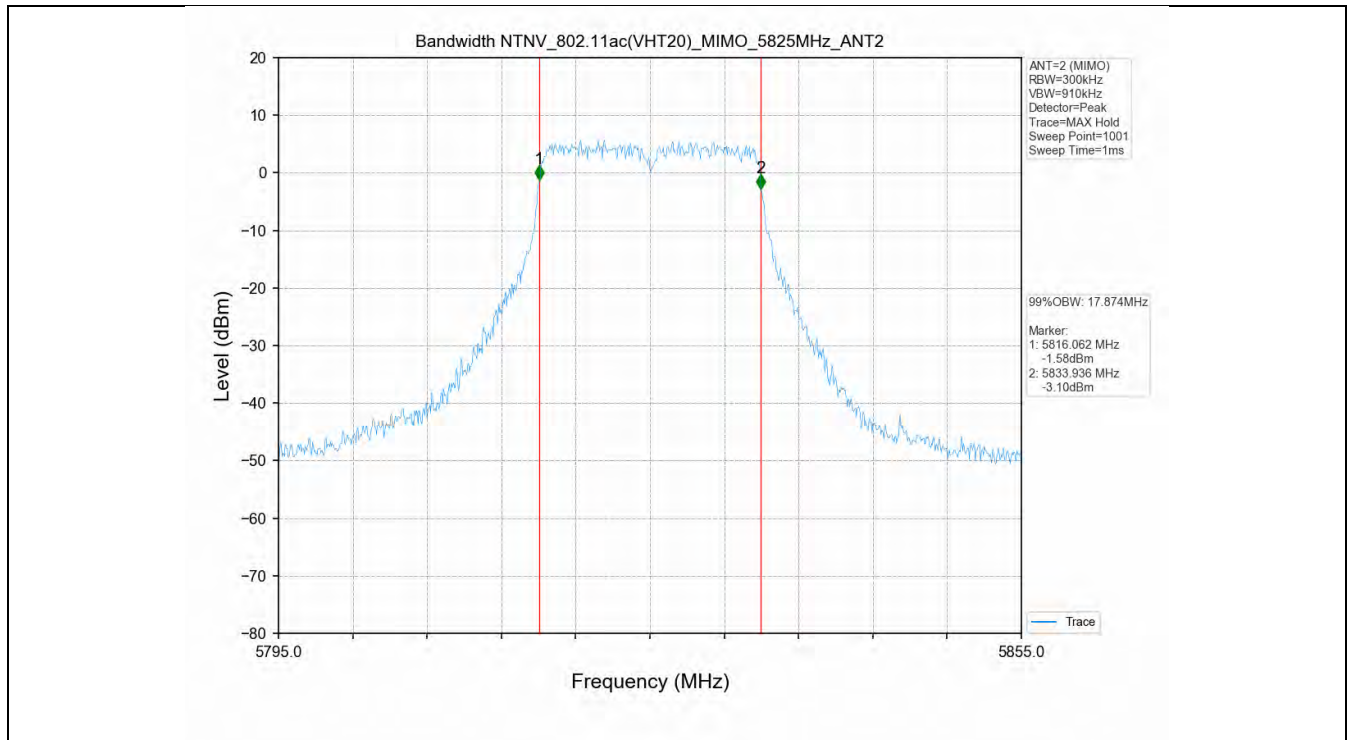


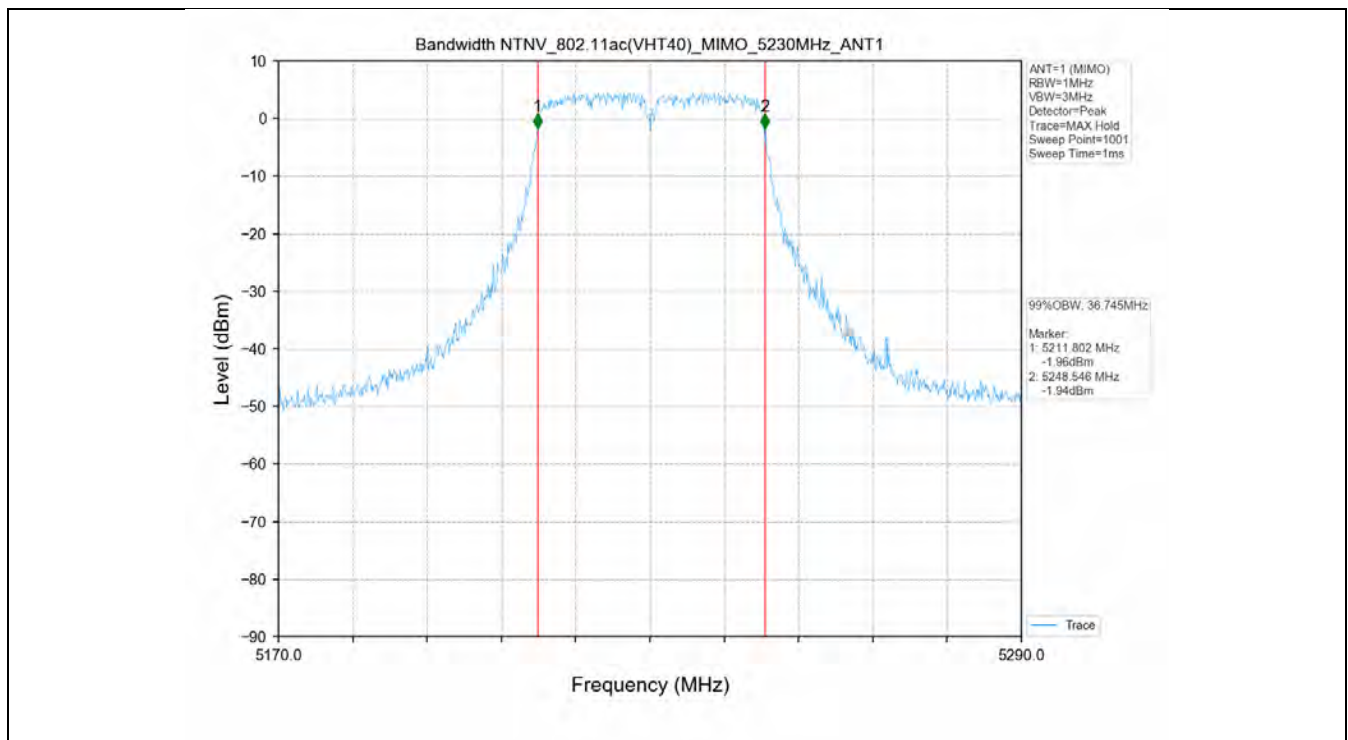
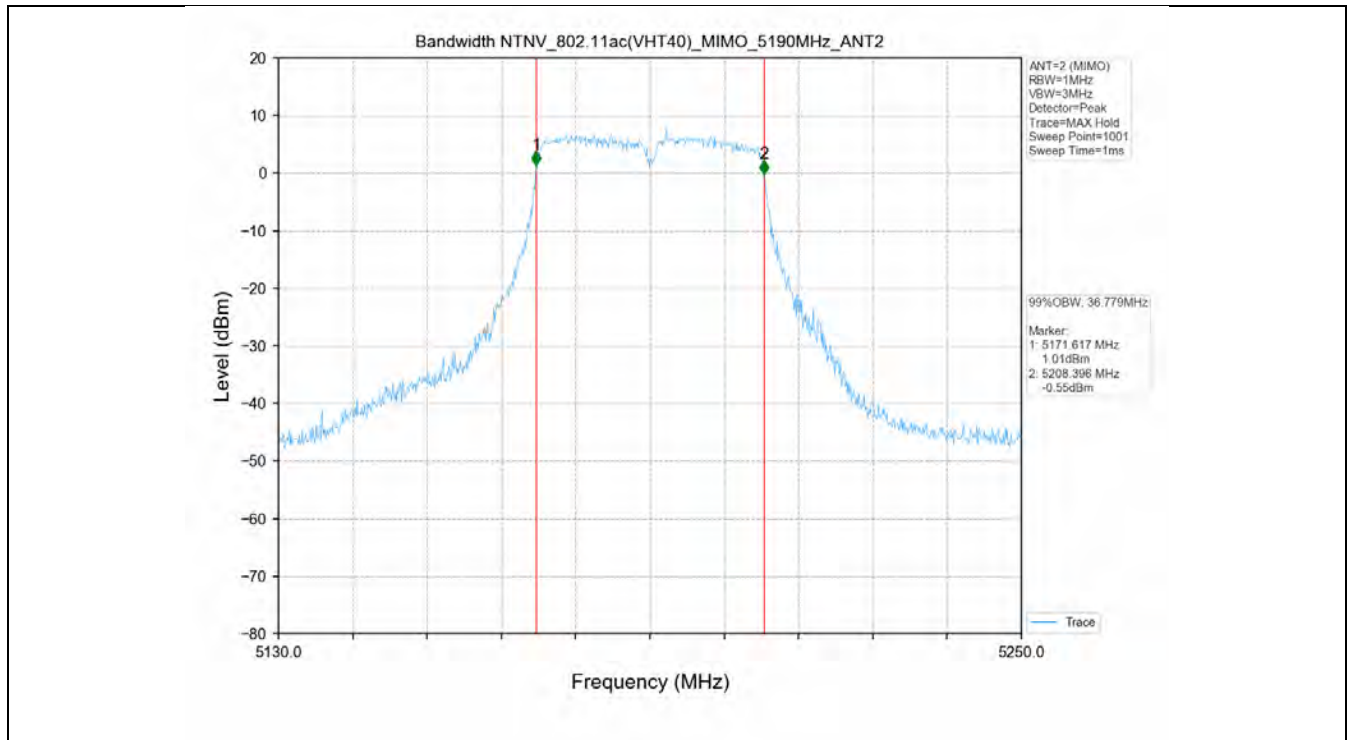


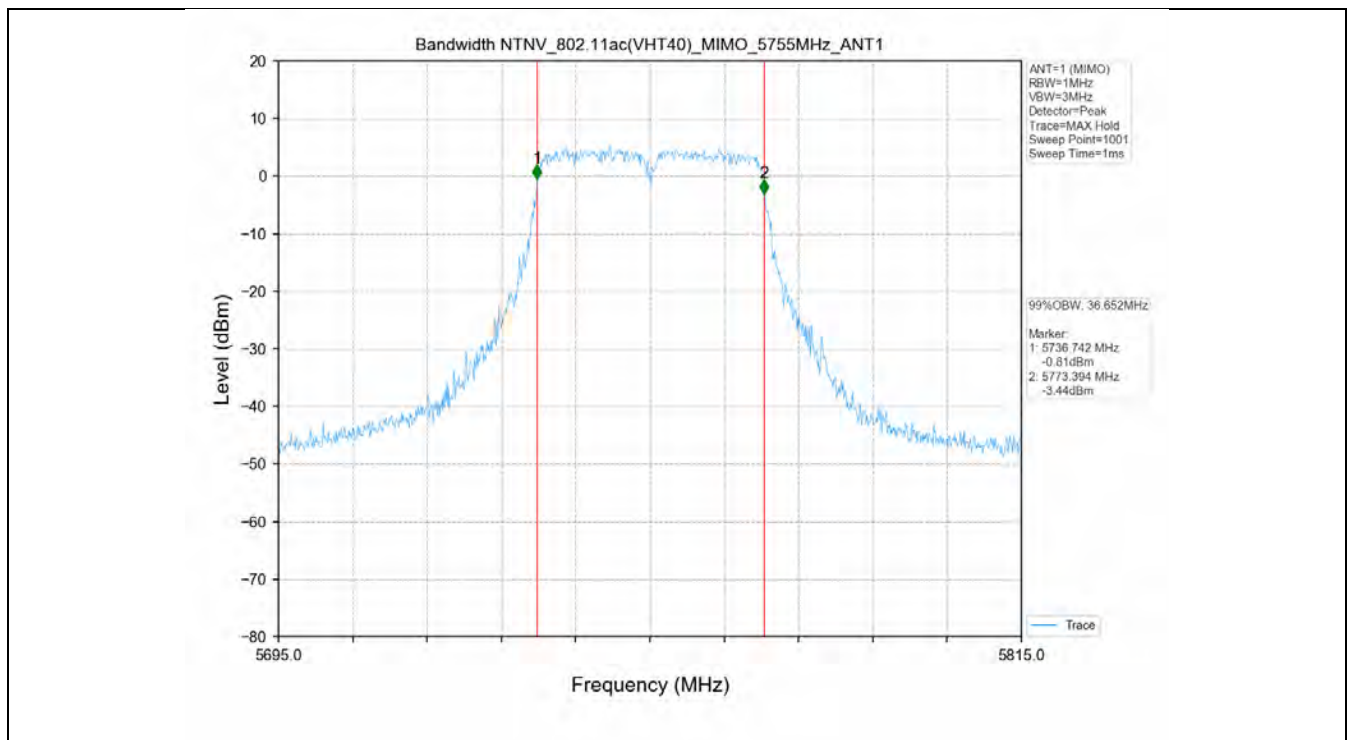
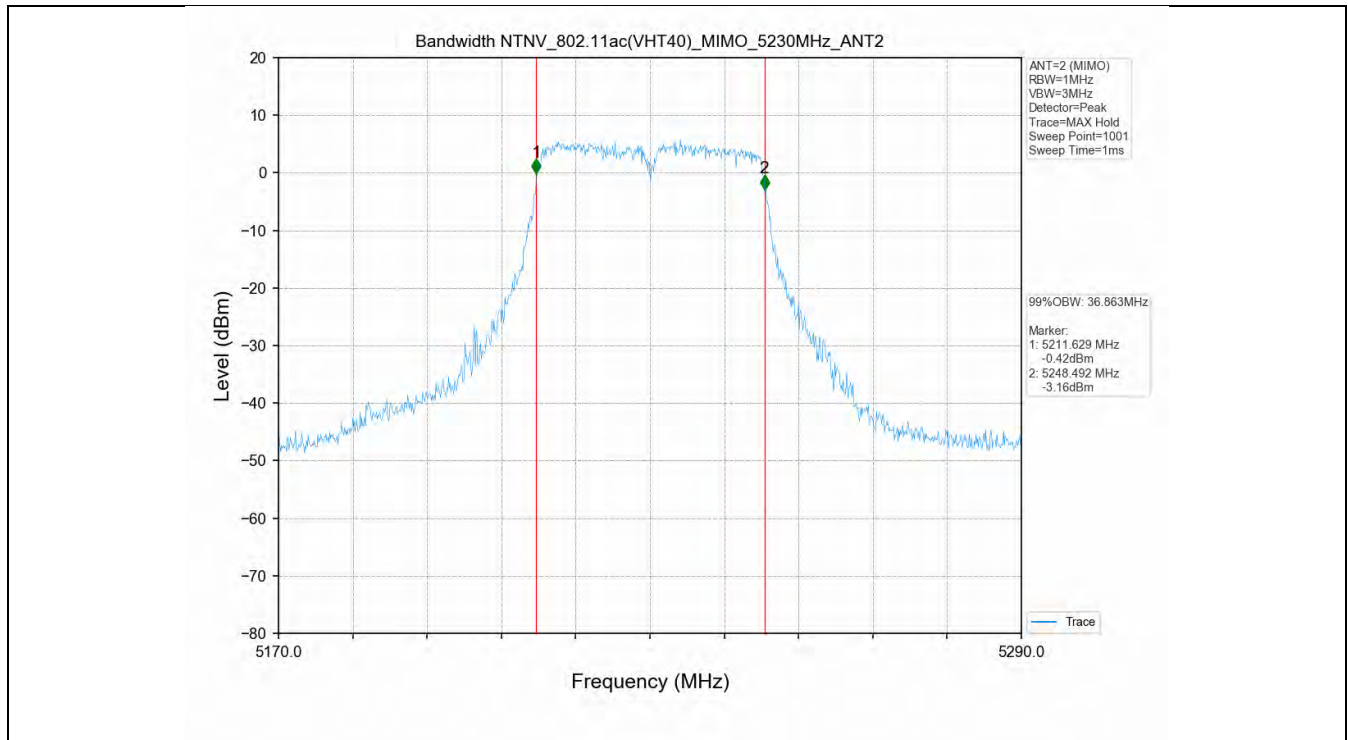


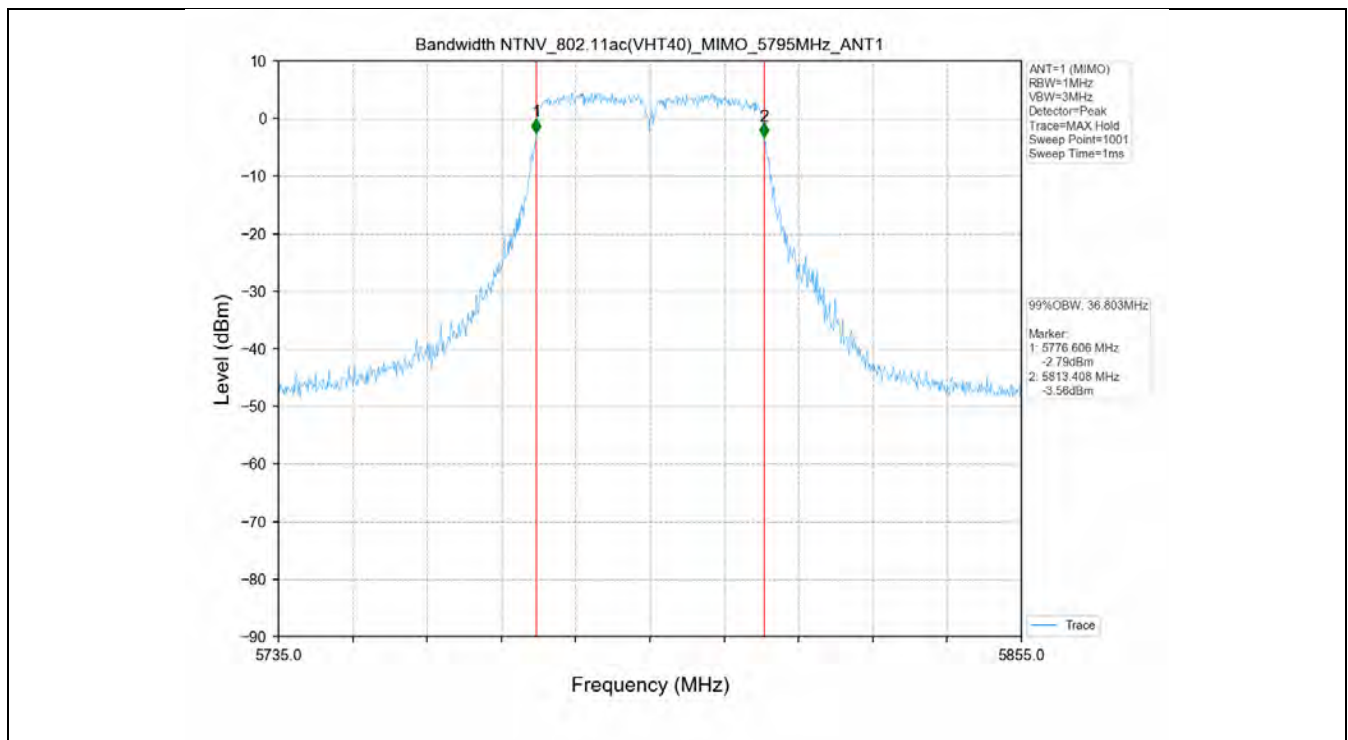
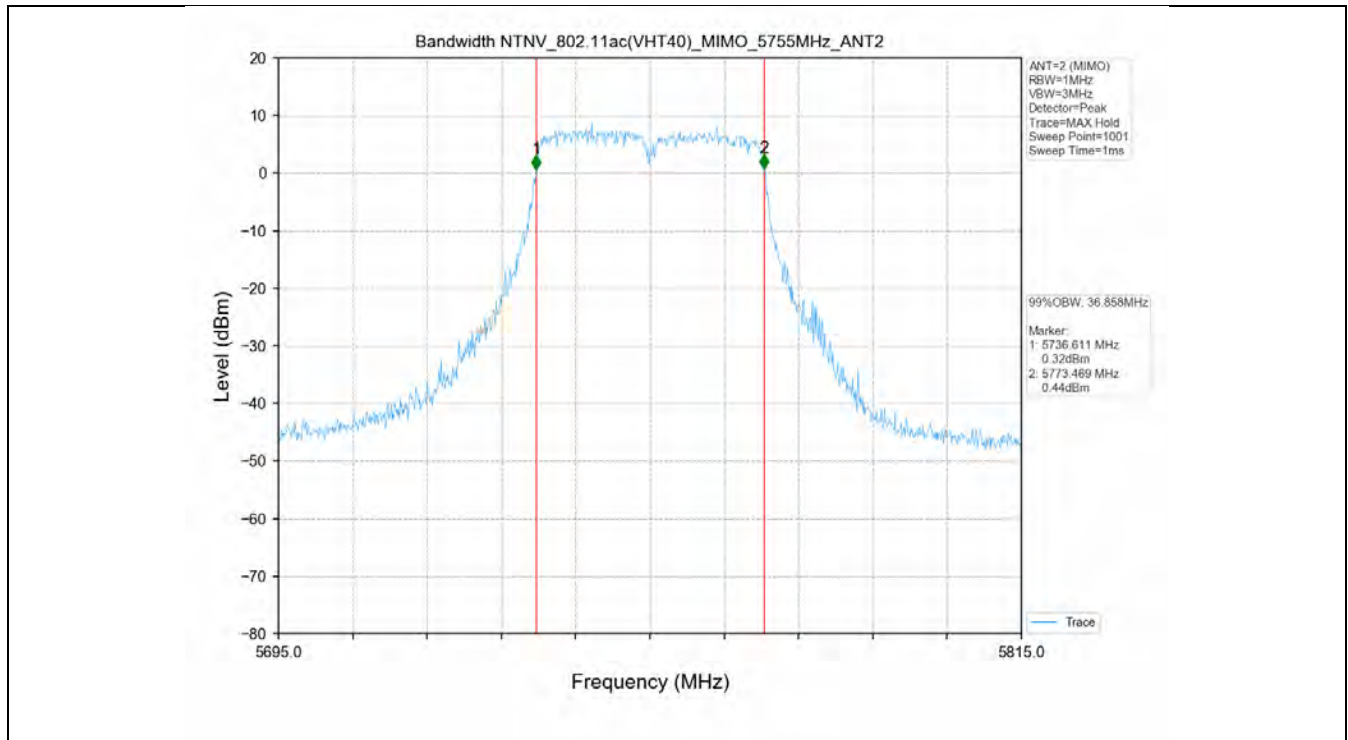


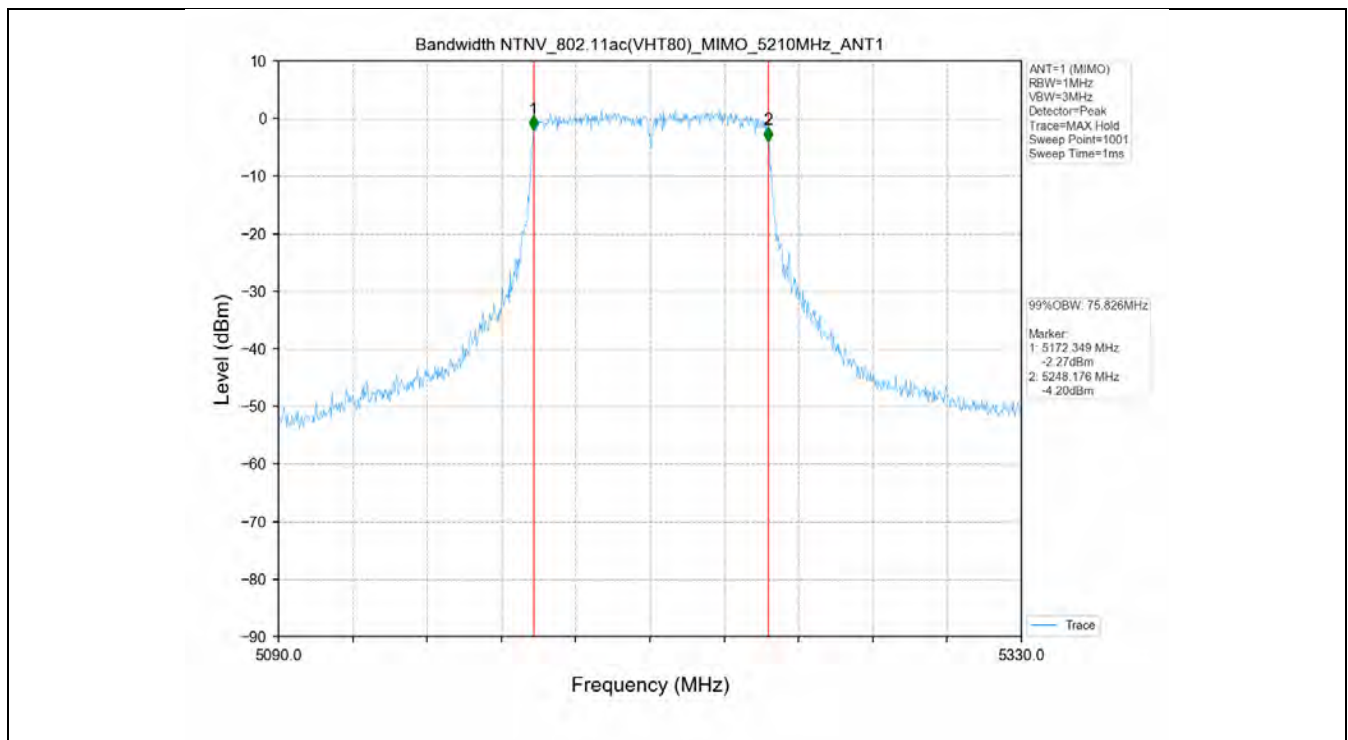
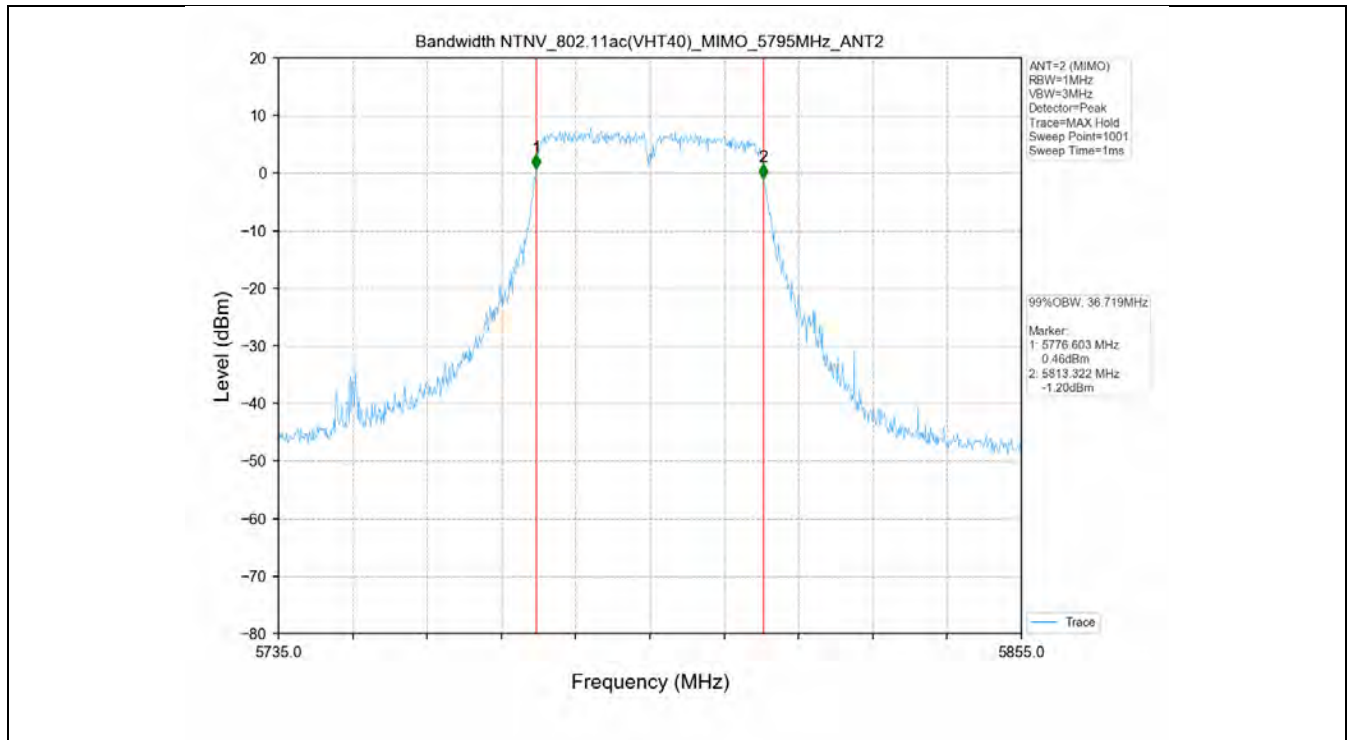


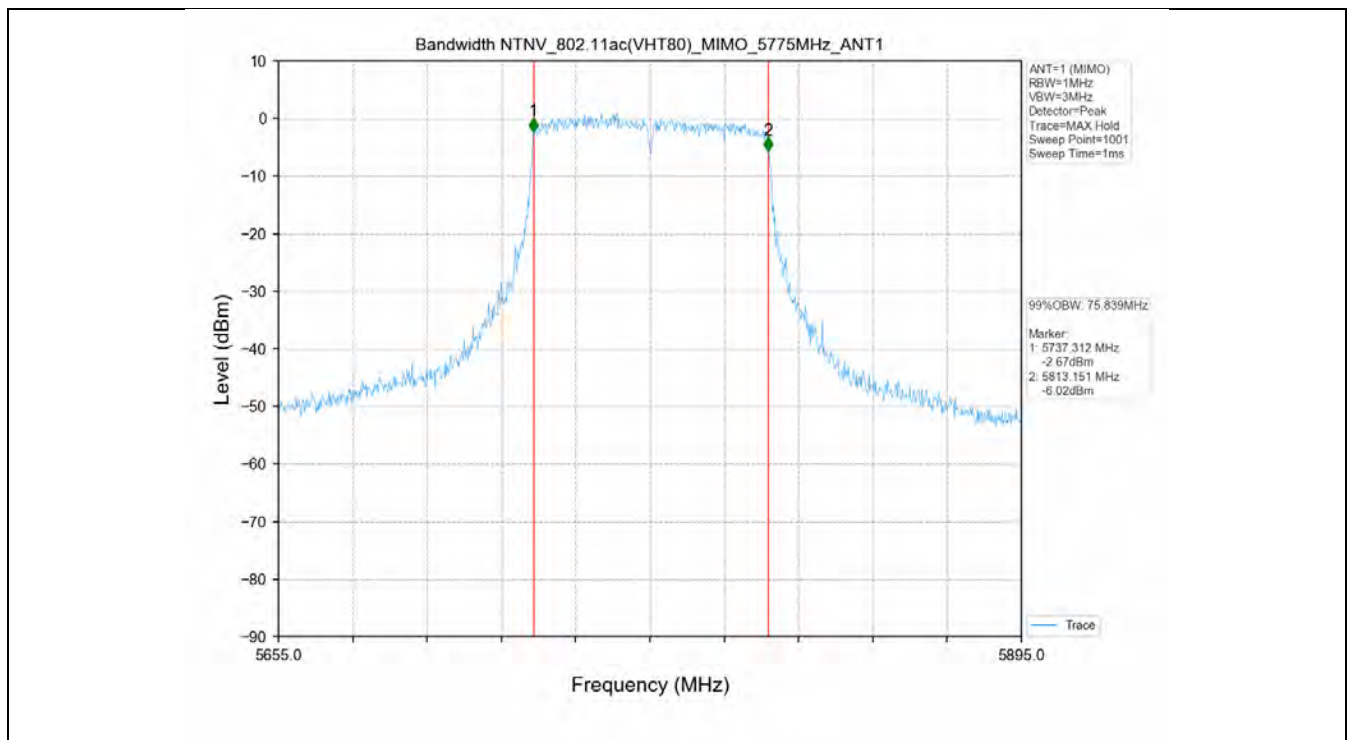
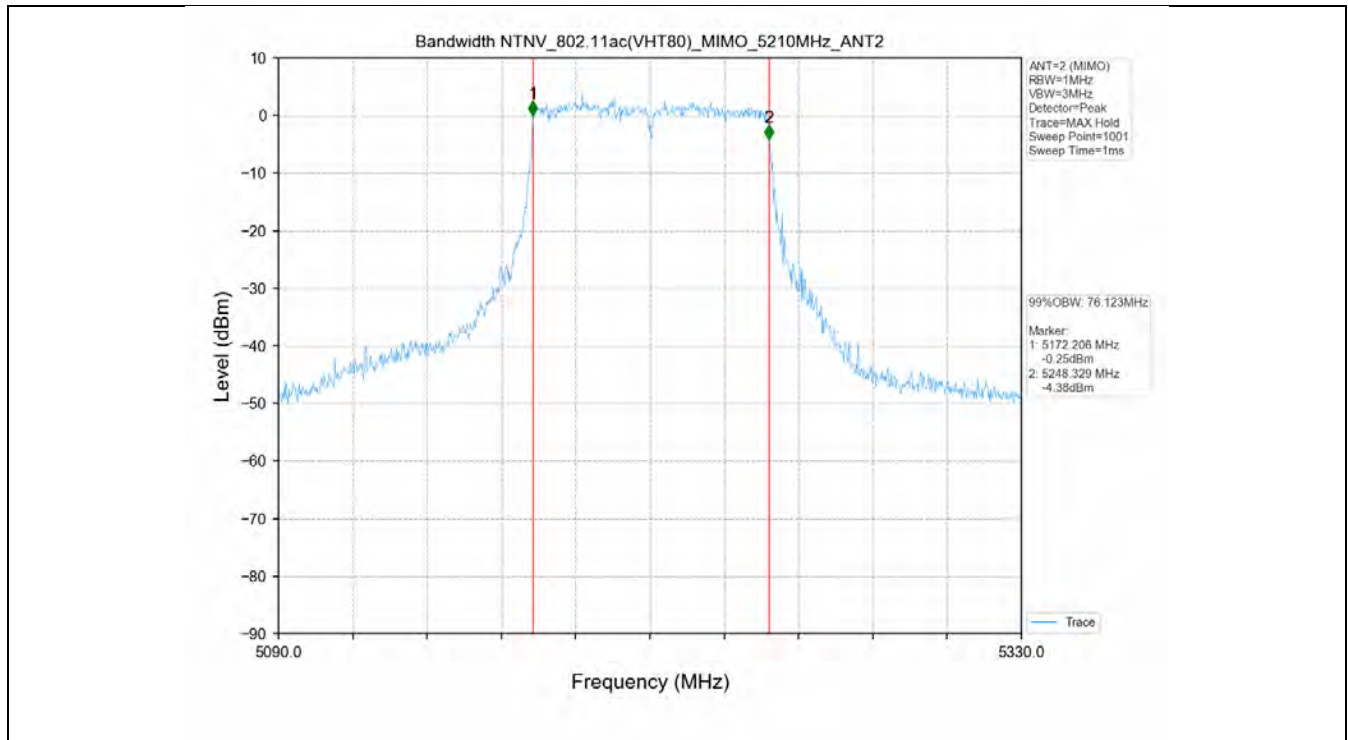


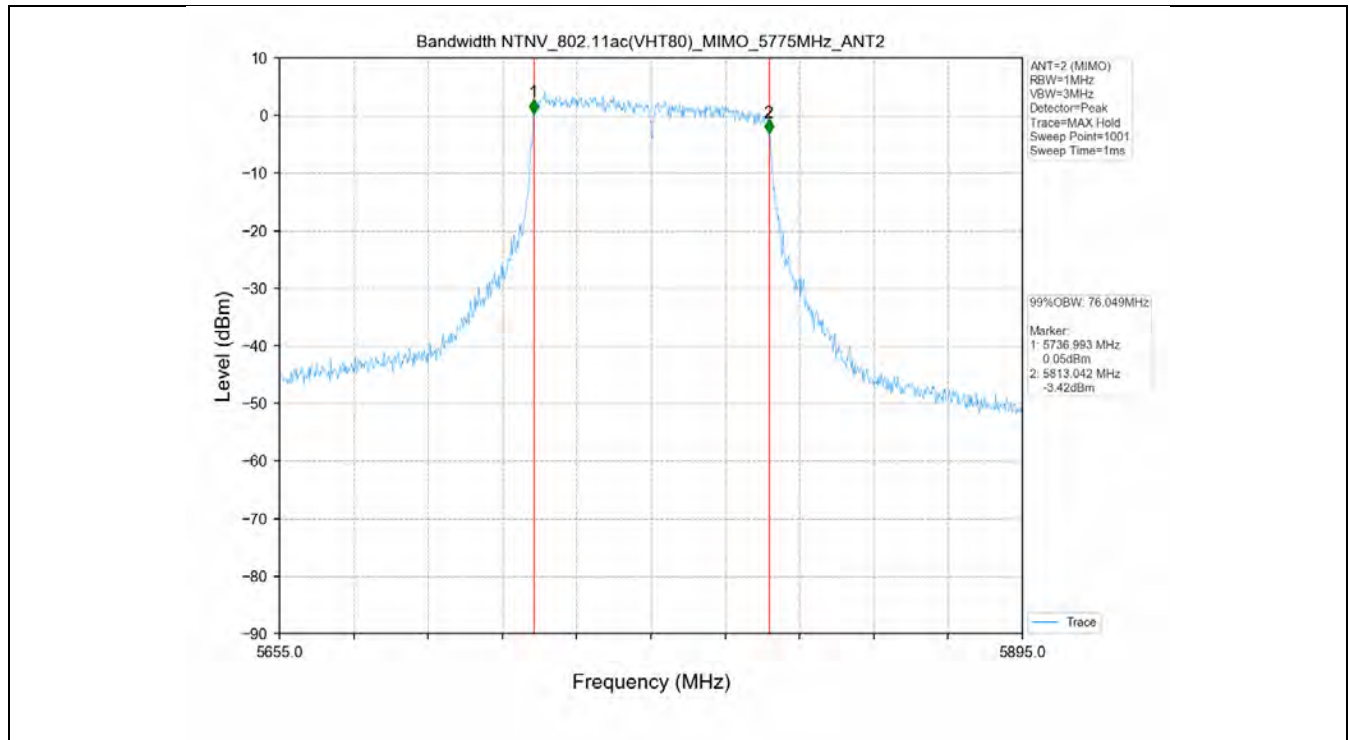












3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11a	5180	SISO	10.95	12.36	/	≤30	PASS
	5200	SISO	10.77	11.79	/	≤30	PASS
	5240	SISO	10.22	10.67	/	≤30	PASS
	5745	SISO	10.40	13.13	/	≤30	PASS
	5785	SISO	10.38	12.71	/	≤30	PASS
	5825	SISO	10.37	13.03	/	≤30	PASS
802.11n(HT20)	5180	MIMO	11.38	12.88	15.20	≤30	PASS
	5200	MIMO	11.39	12.23	14.84	≤30	PASS
	5240	MIMO	10.84	11.15	14.01	≤30	PASS
	5745	MIMO	11.06	13.61	15.53	≤30	PASS
	5785	MIMO	10.90	13.43	15.36	≤30	PASS
	5825	MIMO	10.89	13.50	15.40	≤30	PASS
802.11n(HT40)	5190	MIMO	10.58	11.78	14.23	≤30	PASS
	5230	MIMO	10.33	10.82	13.59	≤30	PASS
	5755	MIMO	10.28	13.07	14.91	≤30	PASS
	5795	MIMO	10.17	12.72	14.64	≤30	PASS
802.11ac(VHT20)	5180	MIMO	11.41	12.86	15.21	≤30	PASS
	5200	MIMO	11.35	12.32	14.87	≤30	PASS
	5240	MIMO	10.74	11.15	13.96	≤30	PASS



	5745	MIMO	12.79	15.56	17.40	≤30	PASS
	5785	MIMO	12.57	14.94	16.92	≤30	PASS
	5825	MIMO	12.31	14.88	16.79	≤30	PASS
802.11ac(VHT40)	5190	MIMO	11.14	12.54	14.91	≤30	PASS
	5230	MIMO	10.85	11.51	14.20	≤30	PASS
	5755	MIMO	11.07	13.59	15.52	≤30	PASS
	5795	MIMO	10.73	13.35	15.24	≤30	PASS
802.11ac(VHT80)	5210	MIMO	11.23	12.25	14.78	≤30	PASS
	5775	MIMO	10.07	12.74	14.62	≤30	PASS

3.2 Test Graph

