

1. Bandwidth

1.1 Test Result

1.1.1 OBW

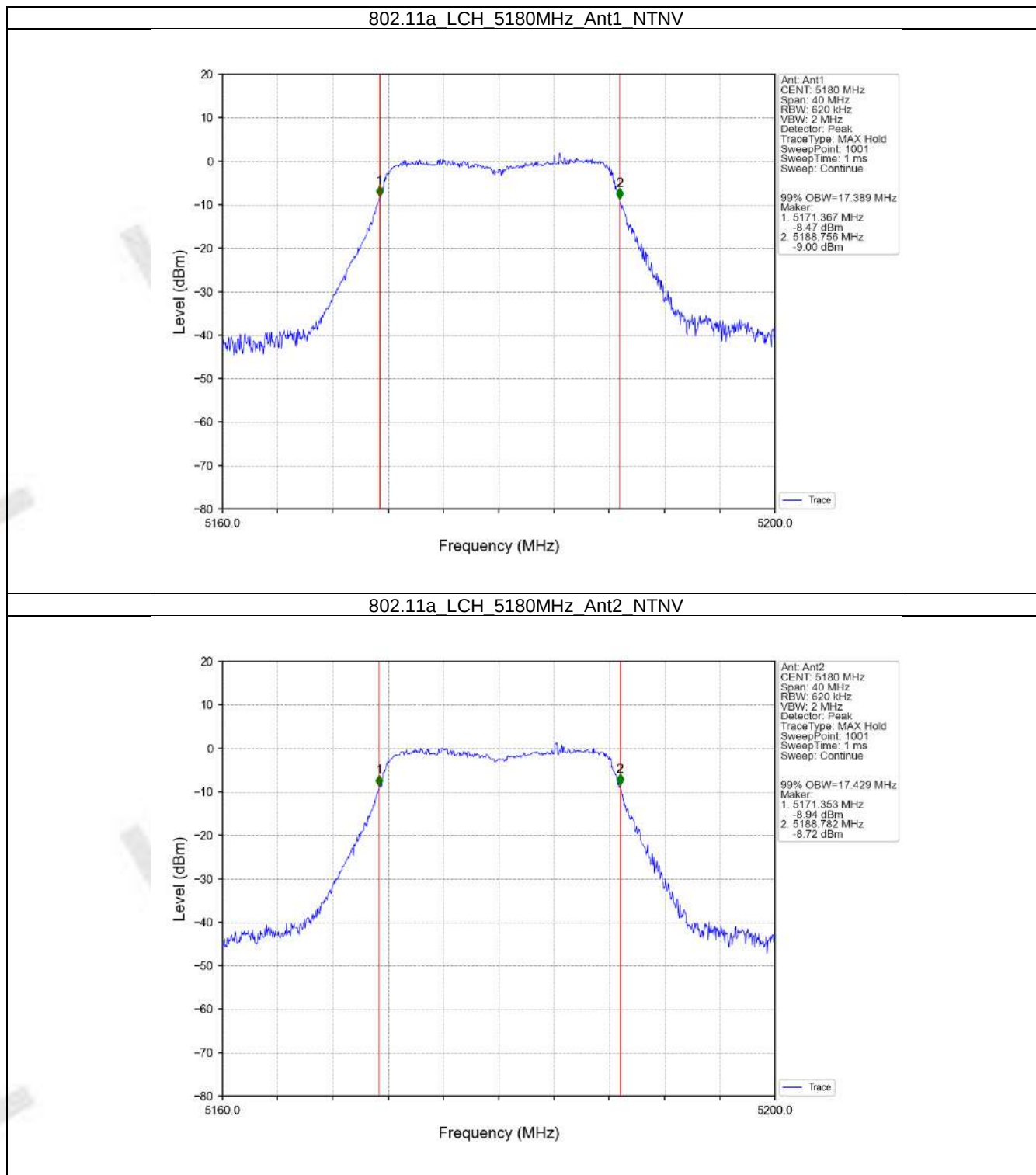
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	17.389	/	Pass
			2	17.429	/	Pass
		5200	1	17.397	/	Pass
			2	17.425	/	Pass
		5240	1	17.389	/	Pass
			2	17.413	/	Pass
802.11n (HT20)	SISO	5180	1	18.308	/	Pass
			2	18.297	/	Pass
		5200	1	18.358	/	Pass
			2	18.314	/	Pass
		5240	1	18.355	/	Pass
			2	18.333	/	Pass
802.11n (HT40)	SISO	5190	1	37.304	/	Pass
			2	37.252	/	Pass
		5230	1	37.264	/	Pass
			2	37.262	/	Pass
802.11ac (VHT20)	SISO	5180	1	18.374	/	Pass
			2	18.302	/	Pass
		5200	1	18.403	/	Pass
			2	18.304	/	Pass
		5240	1	18.379	/	Pass
			2	18.344	/	Pass
802.11ac (VHT40)	SISO	5190	1	37.045	/	Pass
			2	36.899	/	Pass
		5230	1	37.022	/	Pass
			2	37.066	/	Pass
802.11ac (VHT80)	SISO	5210	1	76.653	/	Pass
			2	76.635	/	Pass

1.1.2 26dB BW

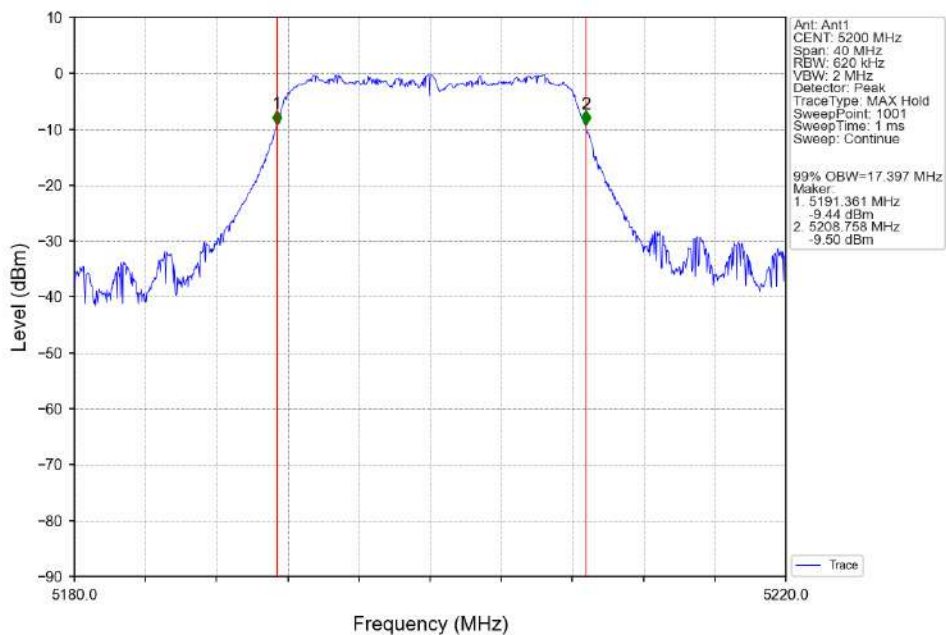
Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	20.460	/	Pass
			2	20.568	/	Pass
		5200	1	20.250	/	Pass
			2	20.634	/	Pass
		5240	1	20.182	/	Pass
			2	20.289	/	Pass
802.11n (HT20)	SISO	5180	1	20.808	/	Pass
			2	20.847	/	Pass
		5200	1	20.796	/	Pass
			2	20.726	/	Pass
		5240	1	20.771	/	Pass
			2	20.797	/	Pass
802.11n (HT40)	SISO	5190	1	44.133	/	Pass
			2	42.684	/	Pass
		5230	1	43.897	/	Pass
			2	43.759	/	Pass
802.11ac (VHT20)	SISO	5180	1	20.927	/	Pass
			2	21.059	/	Pass
		5200	1	20.947	/	Pass
			2	20.891	/	Pass
		5240	1	20.974	/	Pass
			2	20.904	/	Pass
802.11ac (VHT40)	SISO	5190	1	42.060	/	Pass
			2	42.123	/	Pass
		5230	1	41.919	/	Pass
			2	41.930	/	Pass
802.11ac (VHT80)	SISO	5210	1	83.293	/	Pass
			2	83.107	/	Pass

1.2 Test Graph

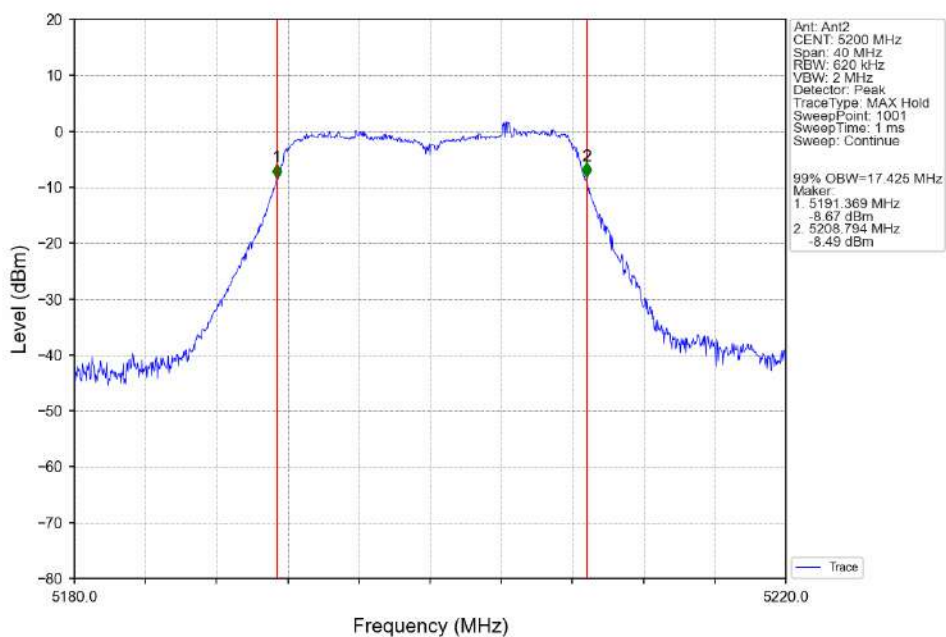
1.2.1 OBW



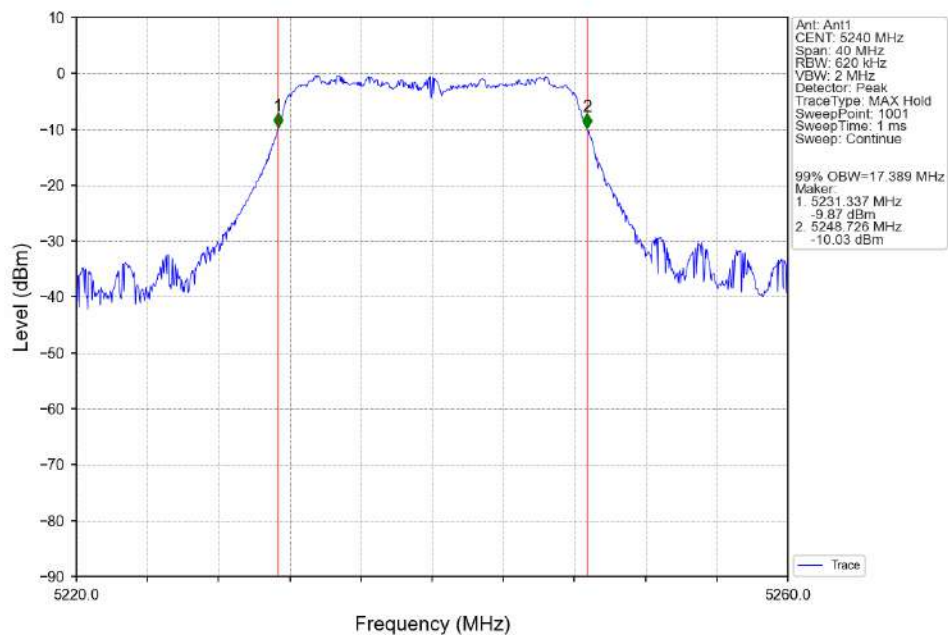
802.11a MCH 5200MHz Ant1 NTN



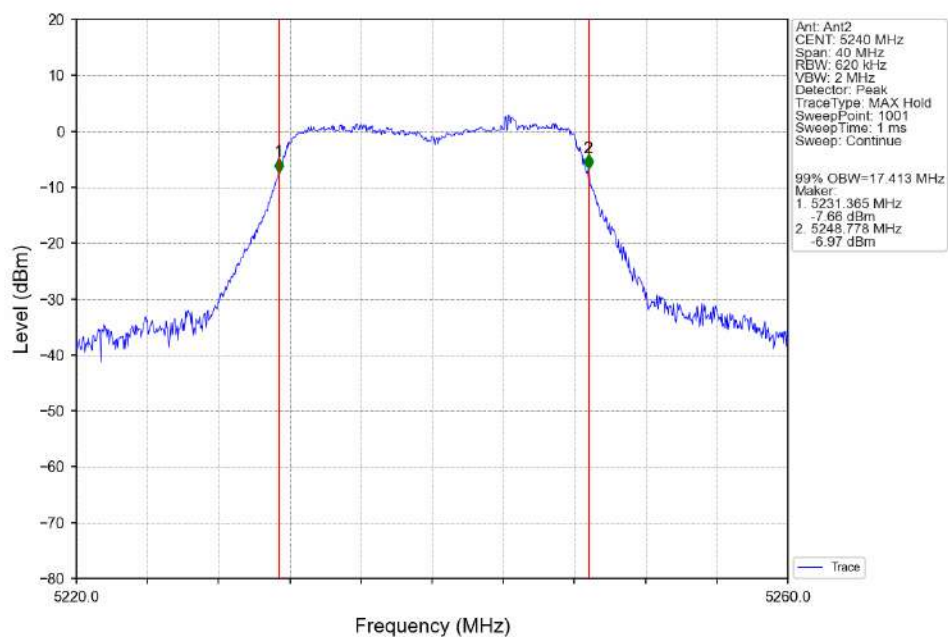
802.11a MCH 5200MHz Ant2 NTN



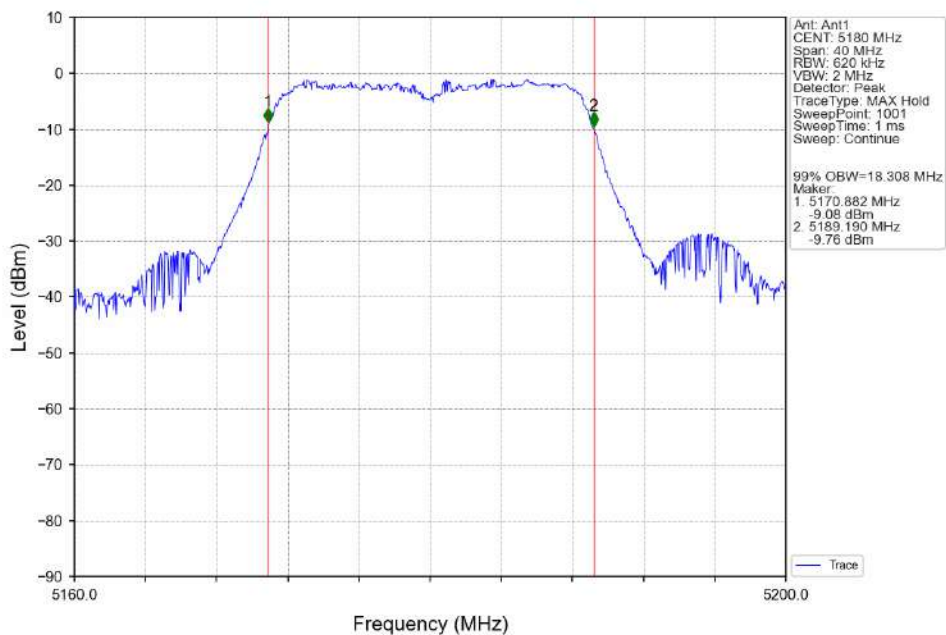
802.11a HCH 5240MHz Ant1 NTVN



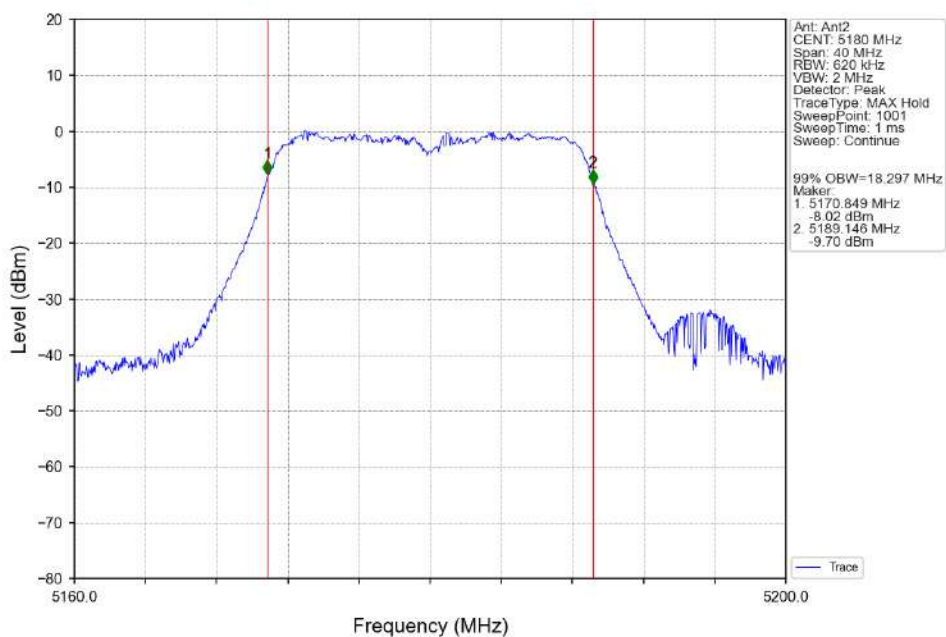
802.11a HCH 5240MHz Ant2 NTVN



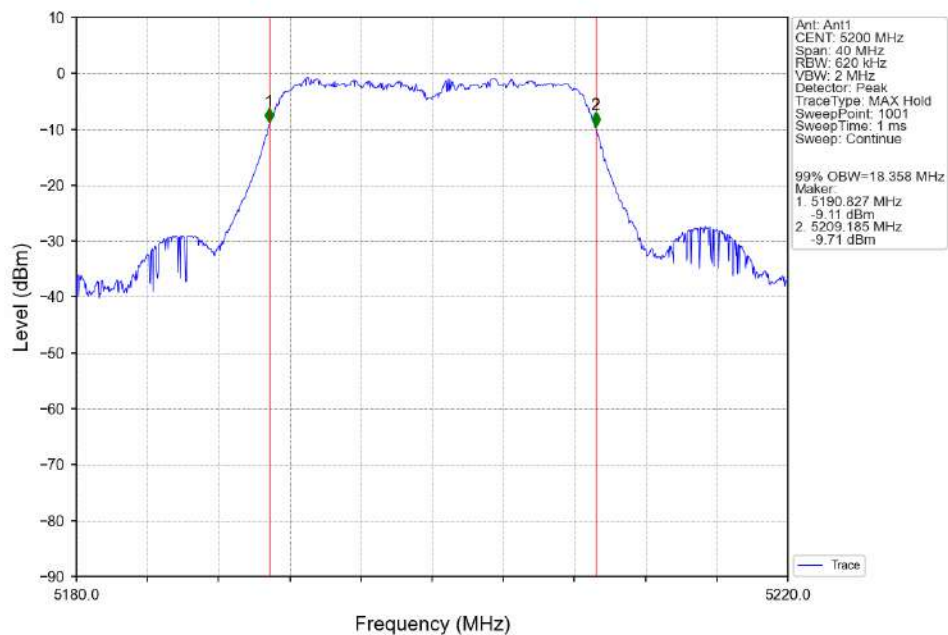
802.11n(HT20) LCH 5180MHz Ant1 NTN



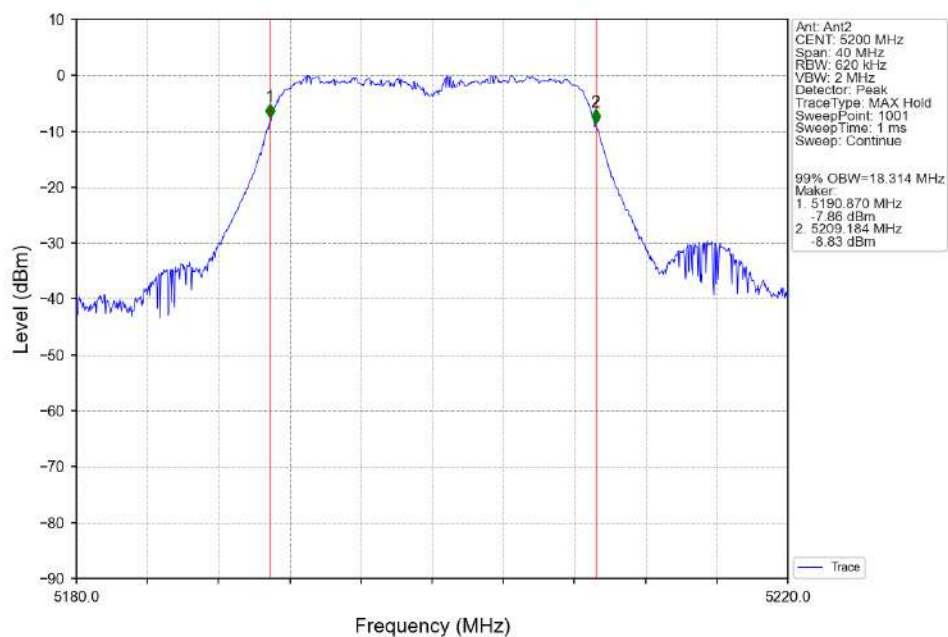
802.11n(HT20) LCH 5180MHz Ant2 NTN



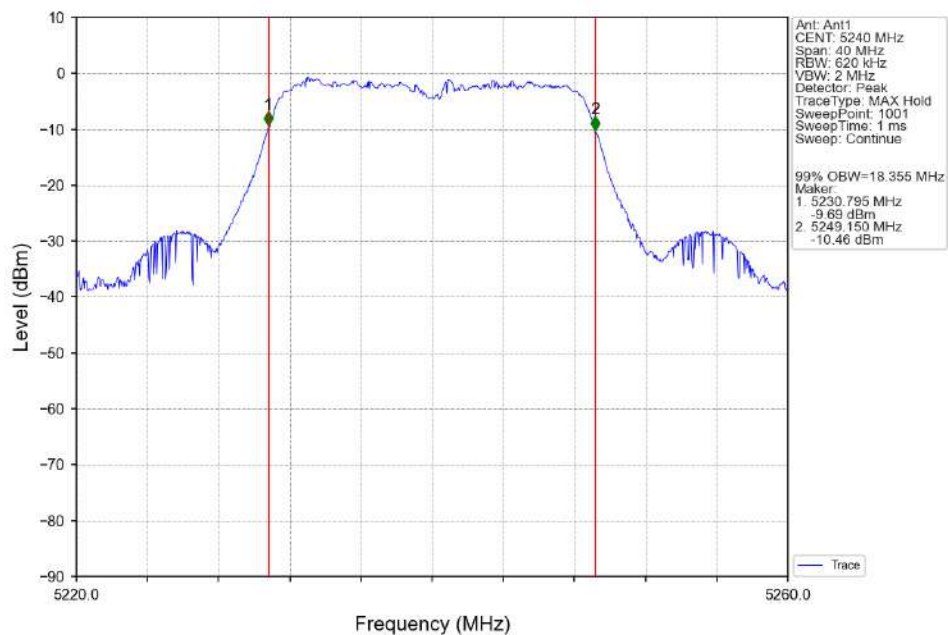
802.11n(HT20) MCH 5200MHz Ant1 NTN



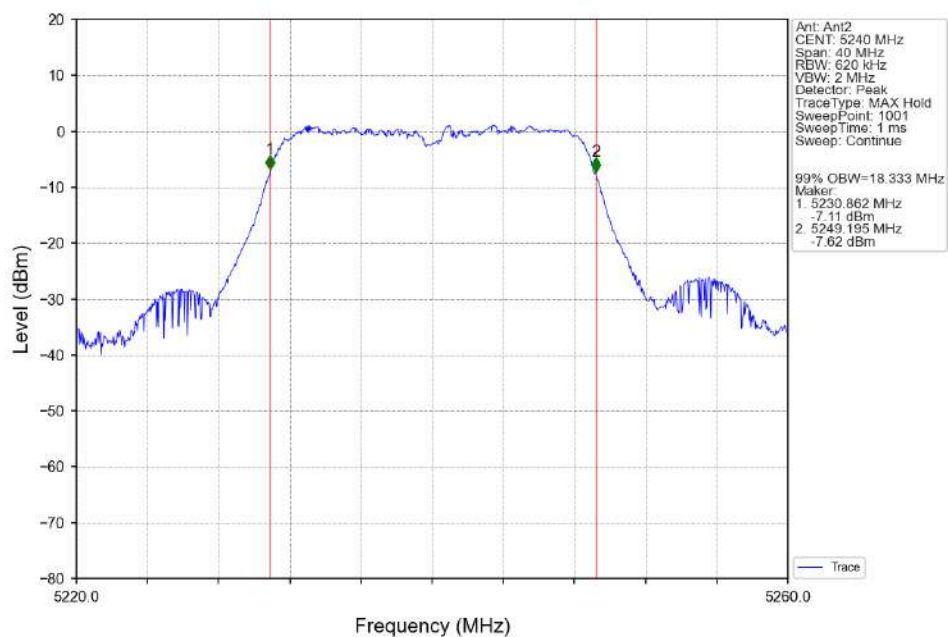
802.11n(HT20) MCH 5200MHz Ant2 NTN



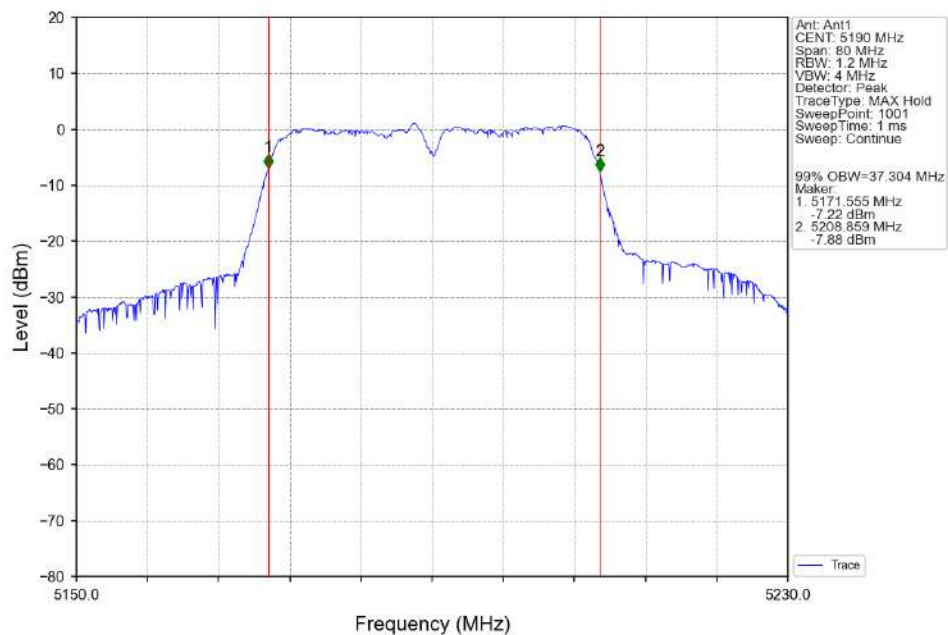
802.11n(HT20) HCH 5240MHz Ant1 NTN



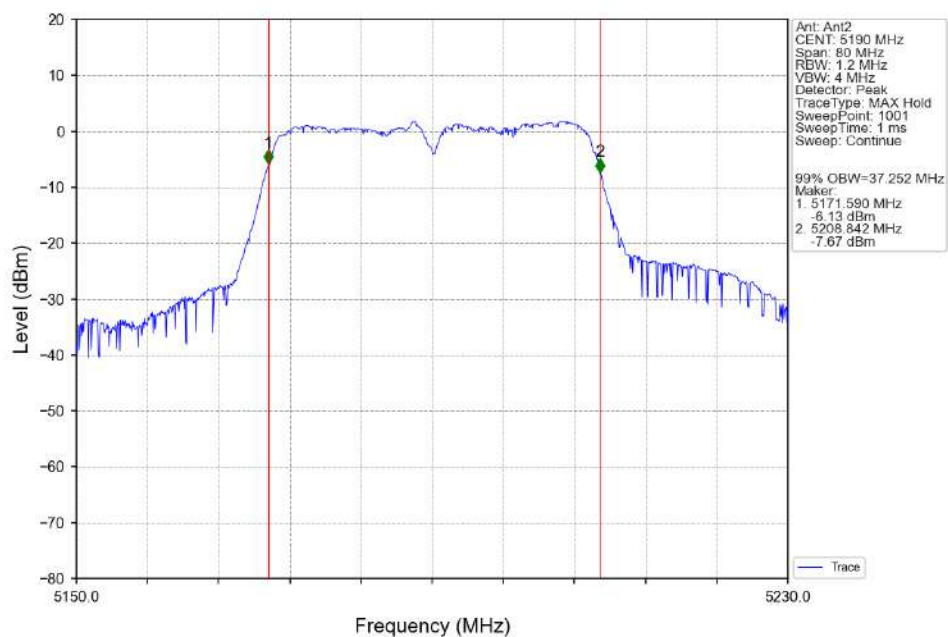
802.11n(HT20) HCH 5240MHz Ant2 NTN



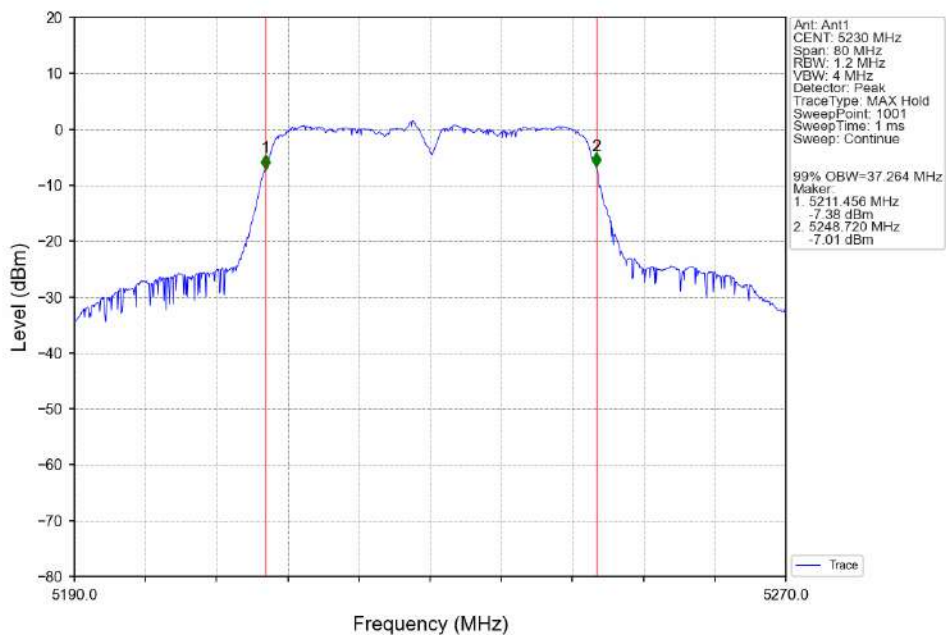
802.11n(HT40) LCH 5190MHz Ant1 NTN



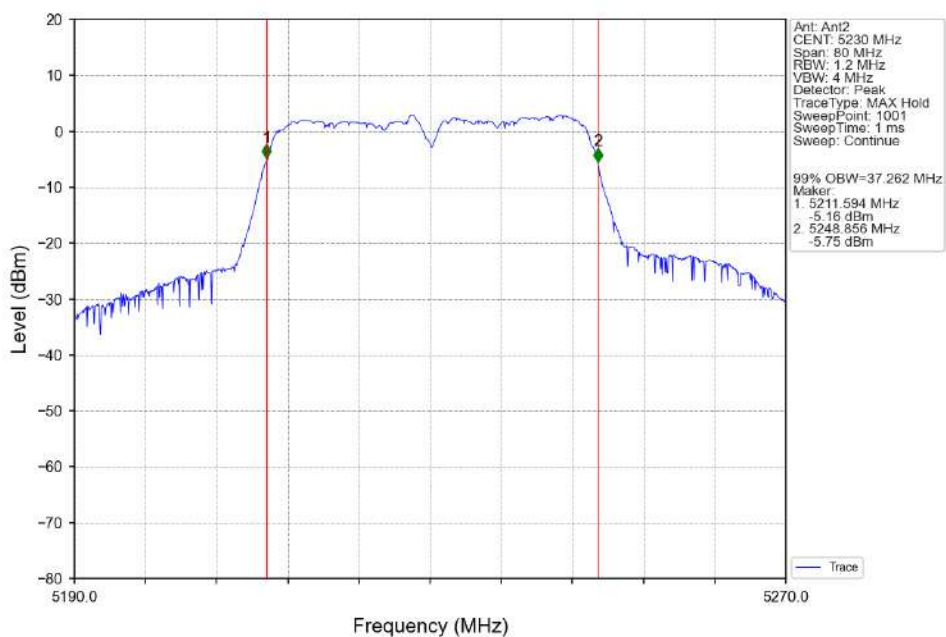
802.11n(HT40) LCH 5190MHz Ant2 NTN



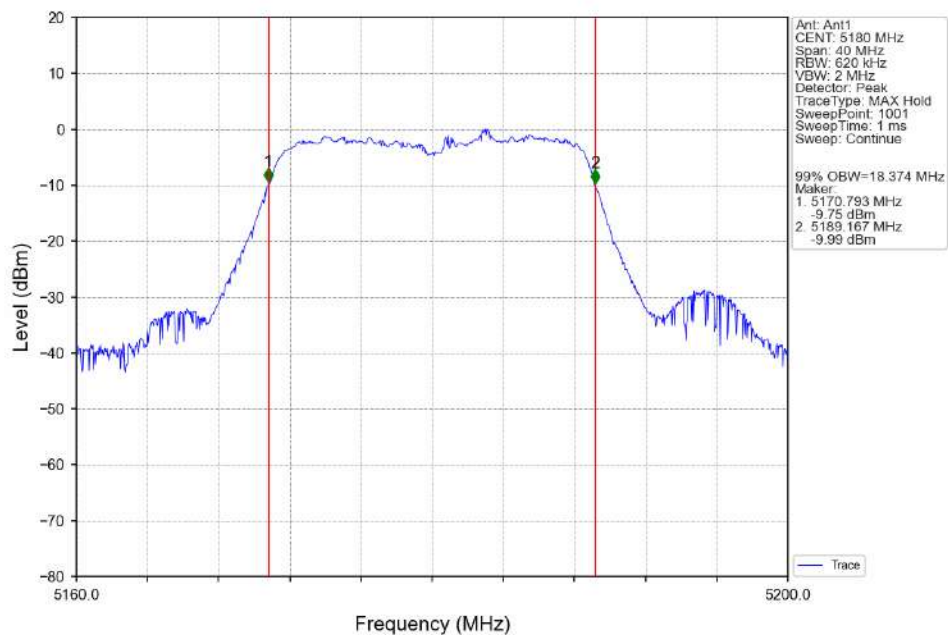
802.11n(HT40) HCH 5230MHz Ant1 NTN



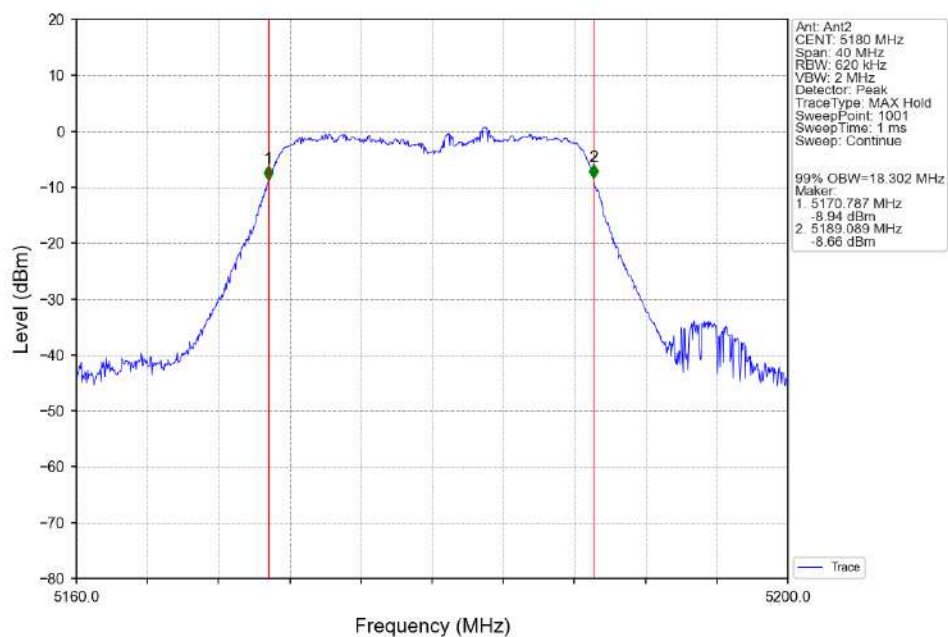
802.11n(HT40) HCH 5230MHz Ant2 NTN



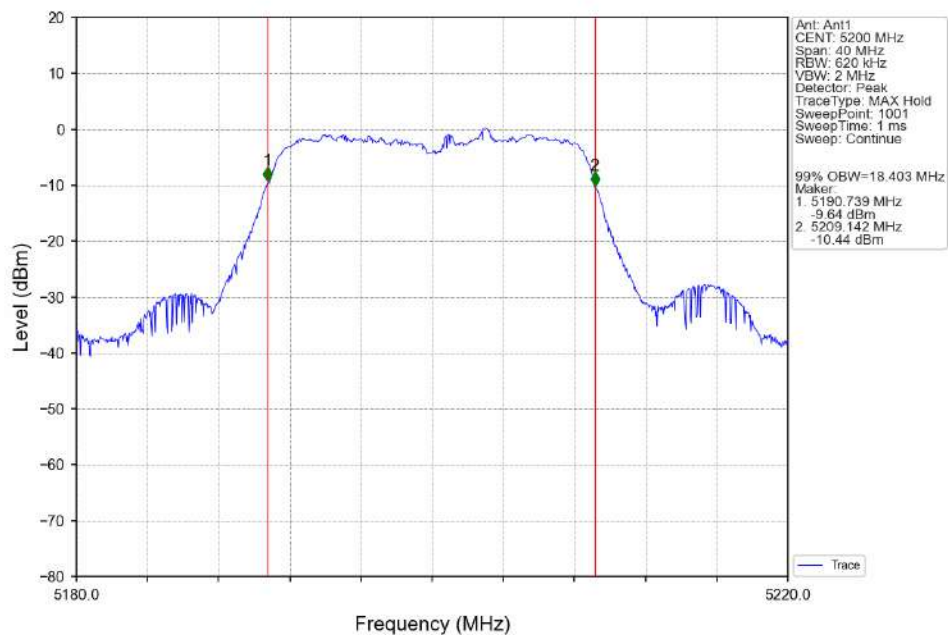
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



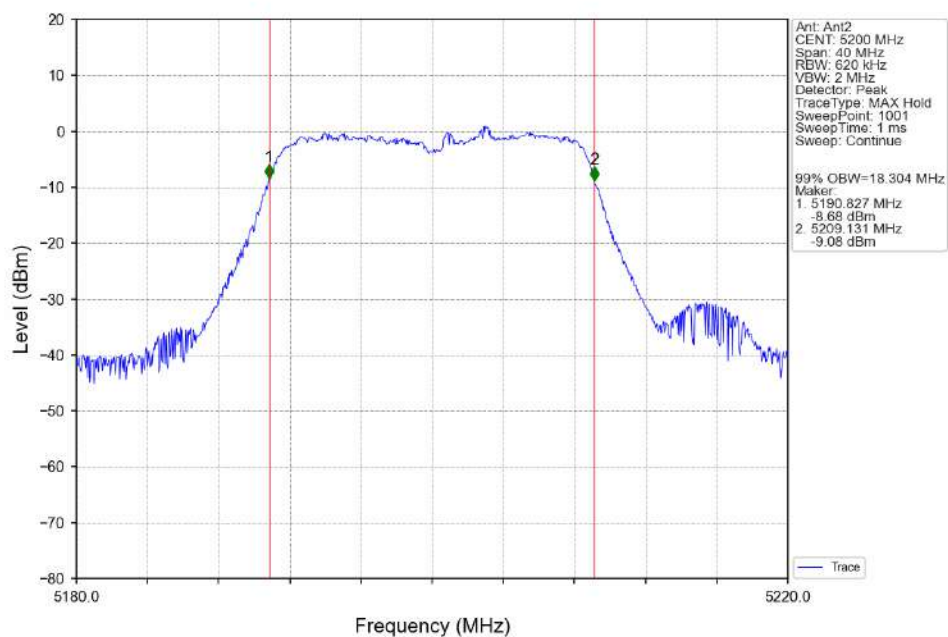
802.11ac(VHT20) LCH 5180MHz Ant2 NTN



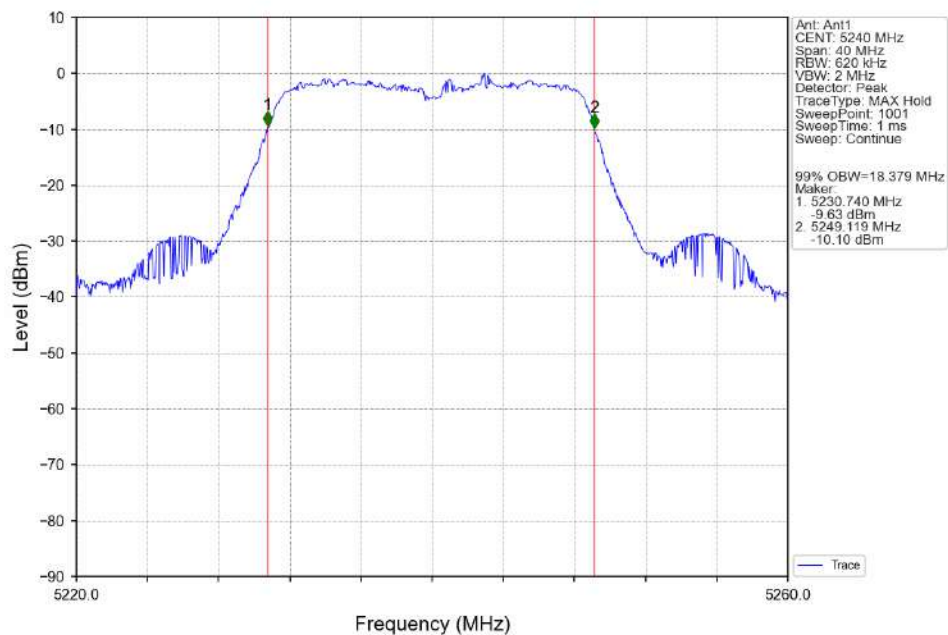
802.11ac(VHT20) MCH 5200MHz Ant1 NTV



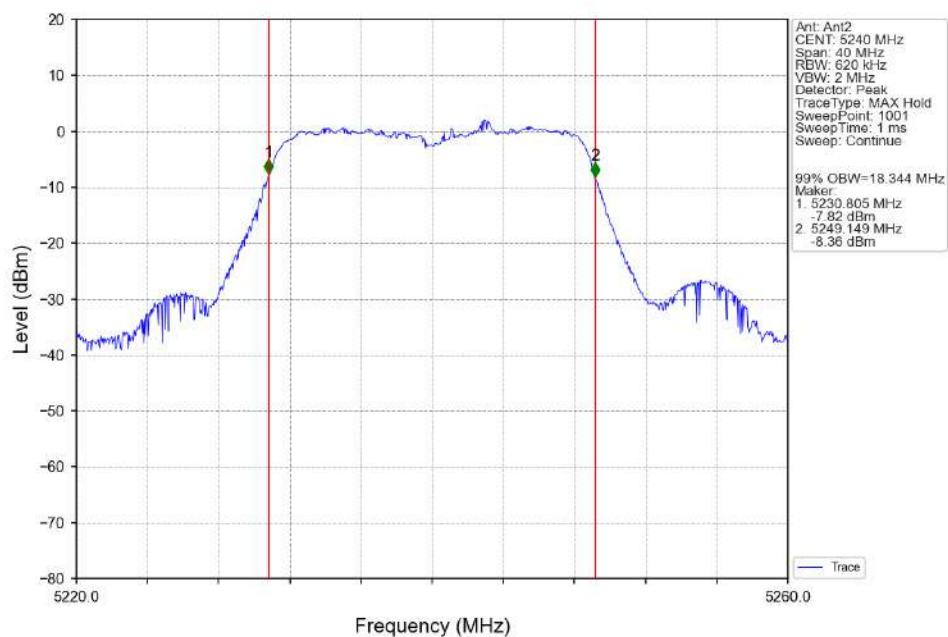
802.11ac(VHT20) MCH 5200MHz Ant2 NTV



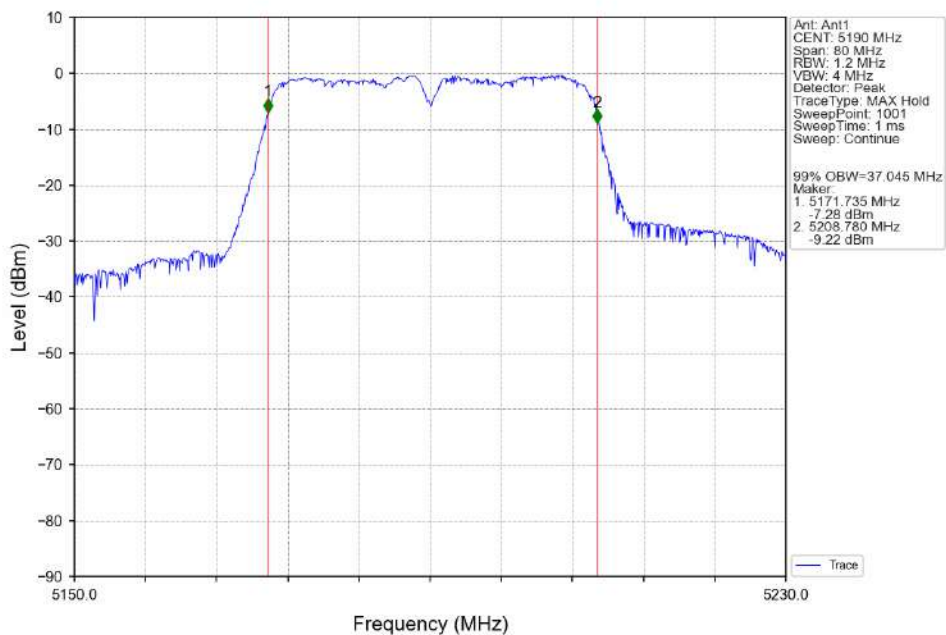
802.11ac(VHT20) HCH 5240MHz Ant1 NTV



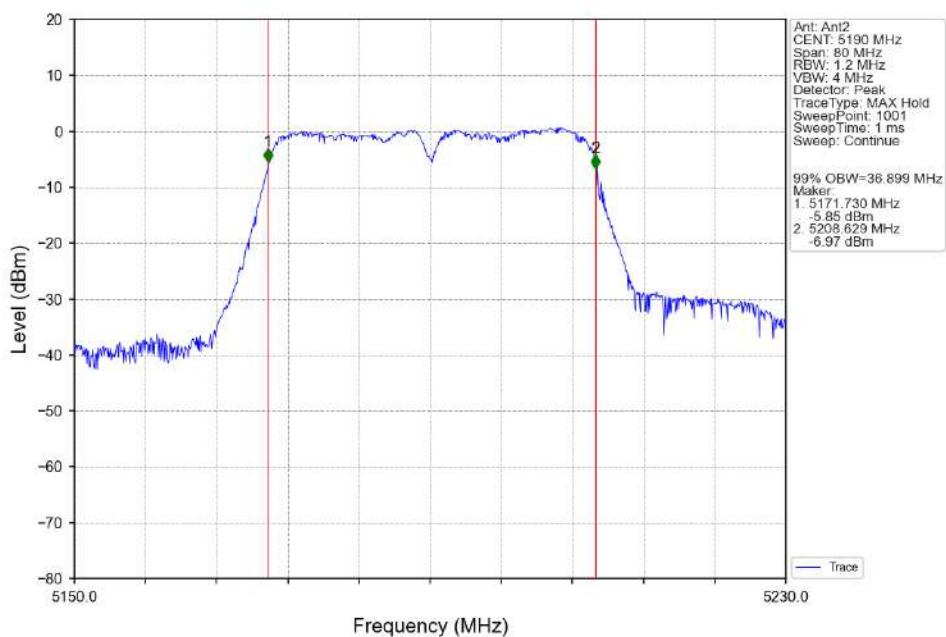
802.11ac(VHT20) HCH 5240MHz Ant2 NTV



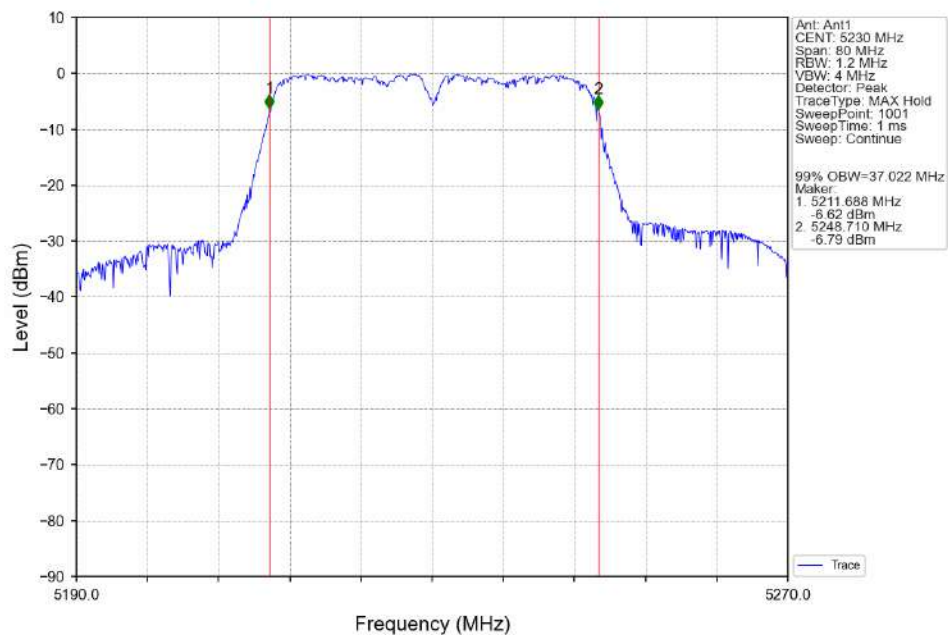
802.11ac(VHT40) LCH 5190MHz Ant1 NTN



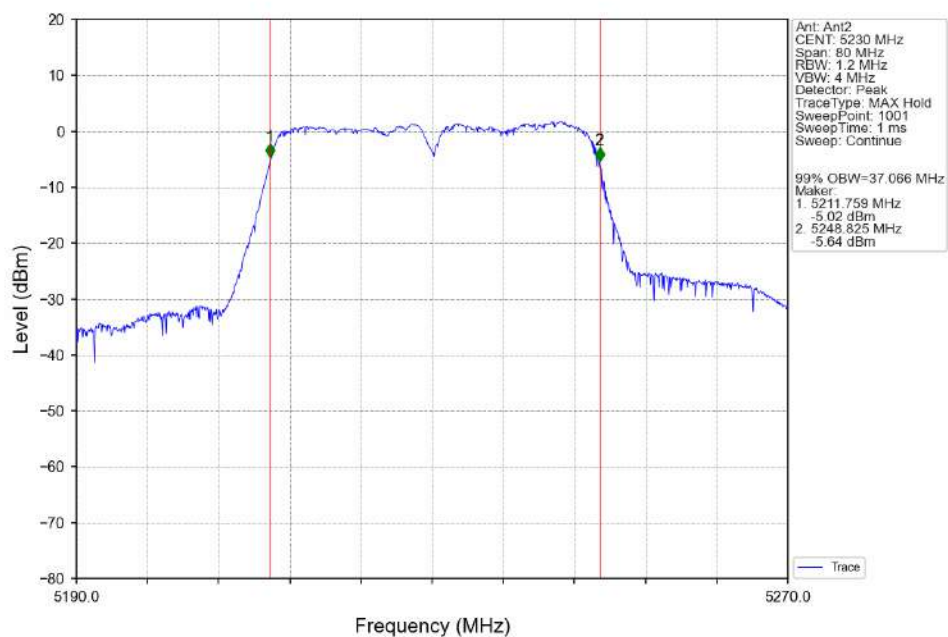
802.11ac(VHT40) LCH 5190MHz Ant2 NTN



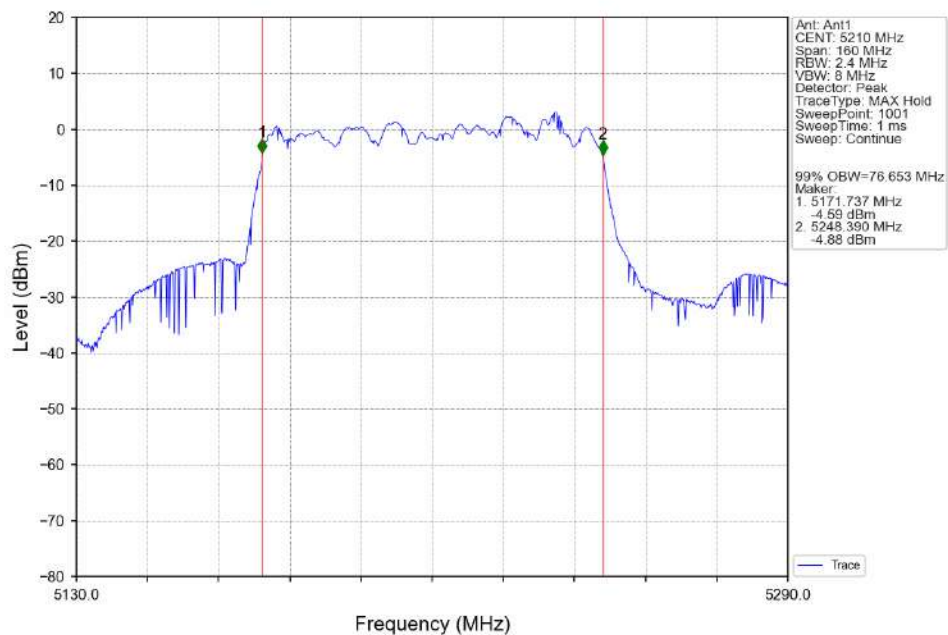
802.11ac(VHT40) HCH 5230MHz Ant1 NTV



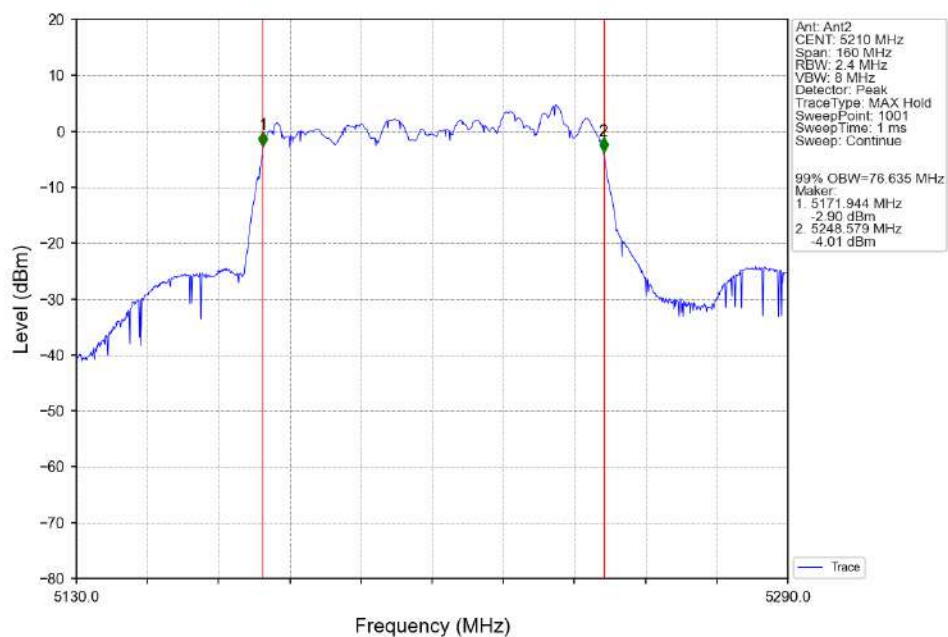
802.11ac(VHT40) HCH 5230MHz Ant2 NTV



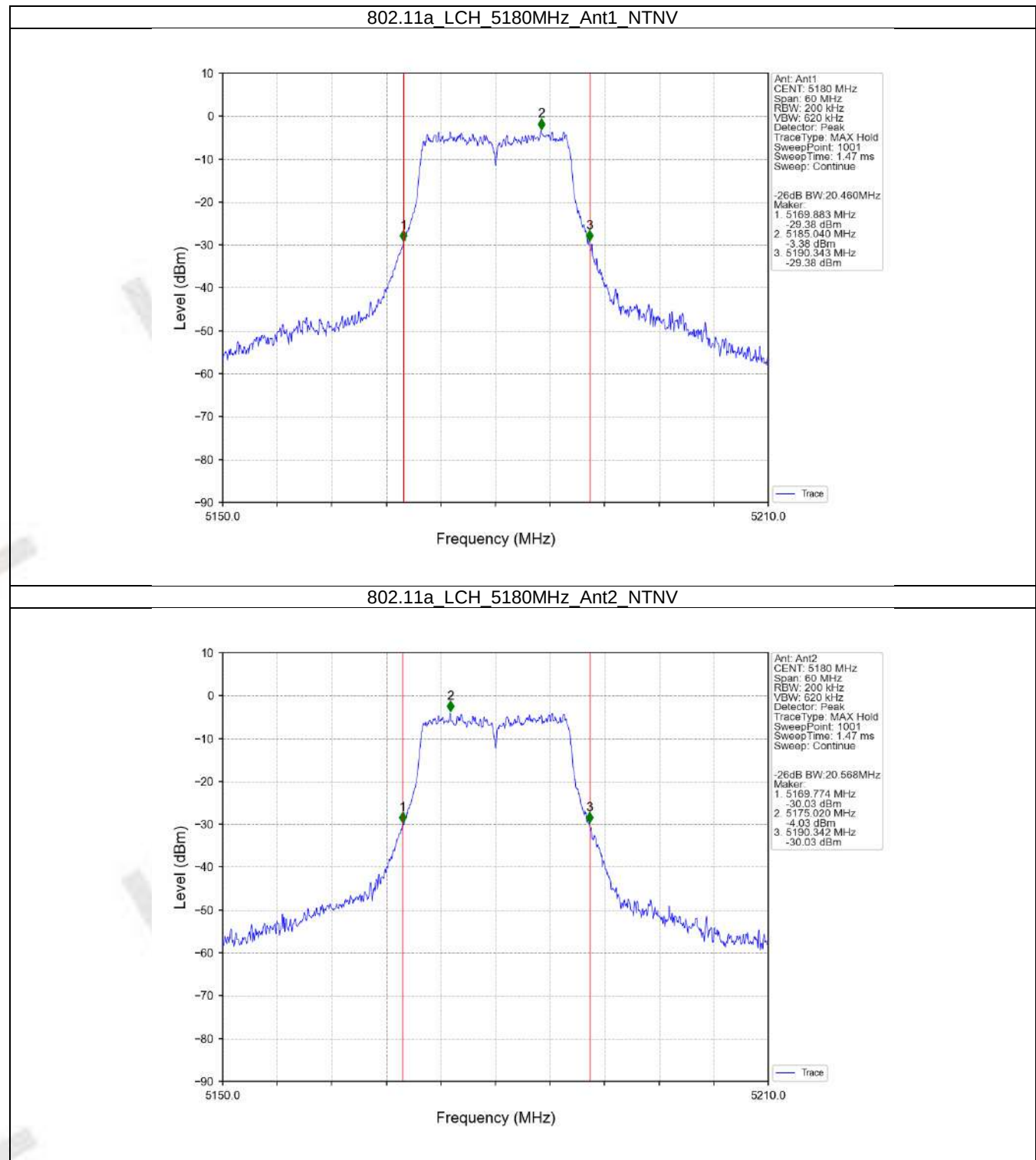
802.11ac(VHT80) MCH 5210MHz Ant1 NTNV



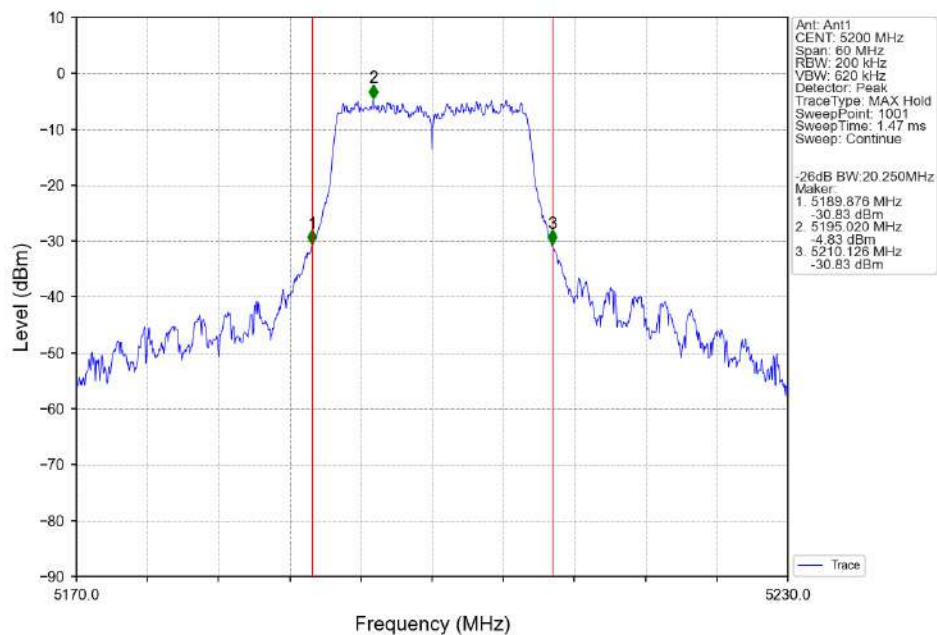
802.11ac(VHT80) MCH 5210MHz Ant2 NTNV



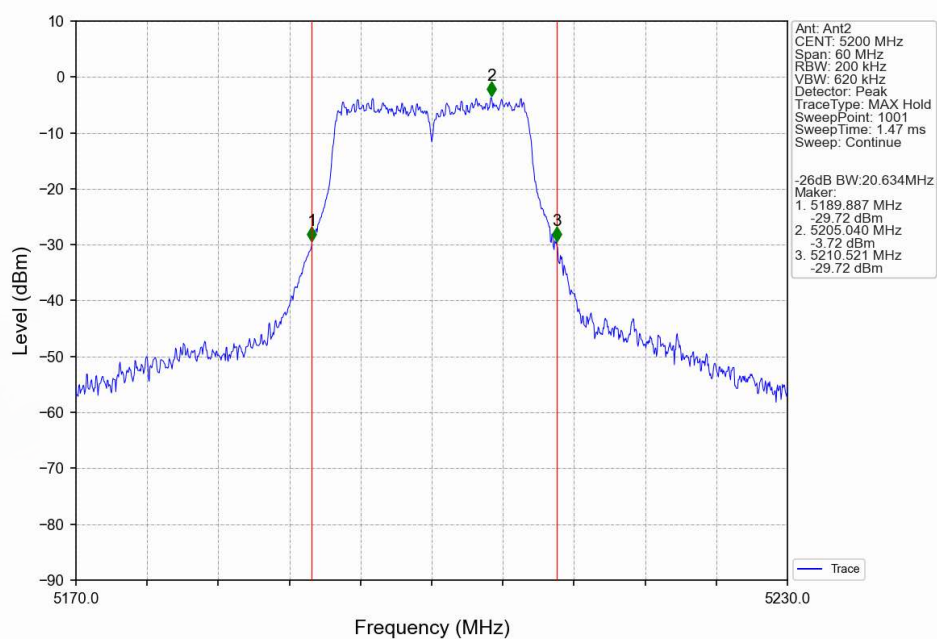
1.2.2 26dB BW



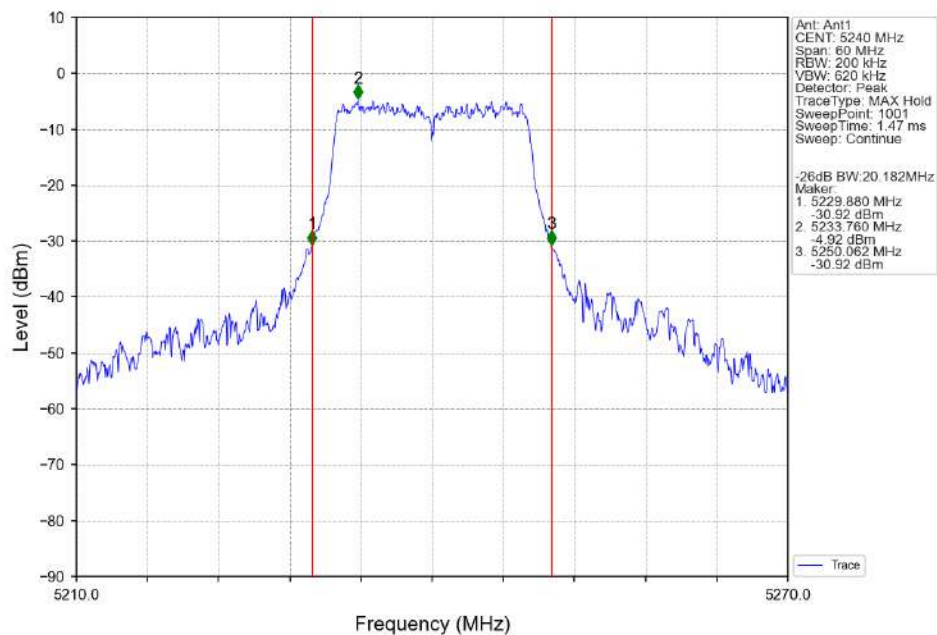
802.11a MCH 5200MHz Ant1 NTN



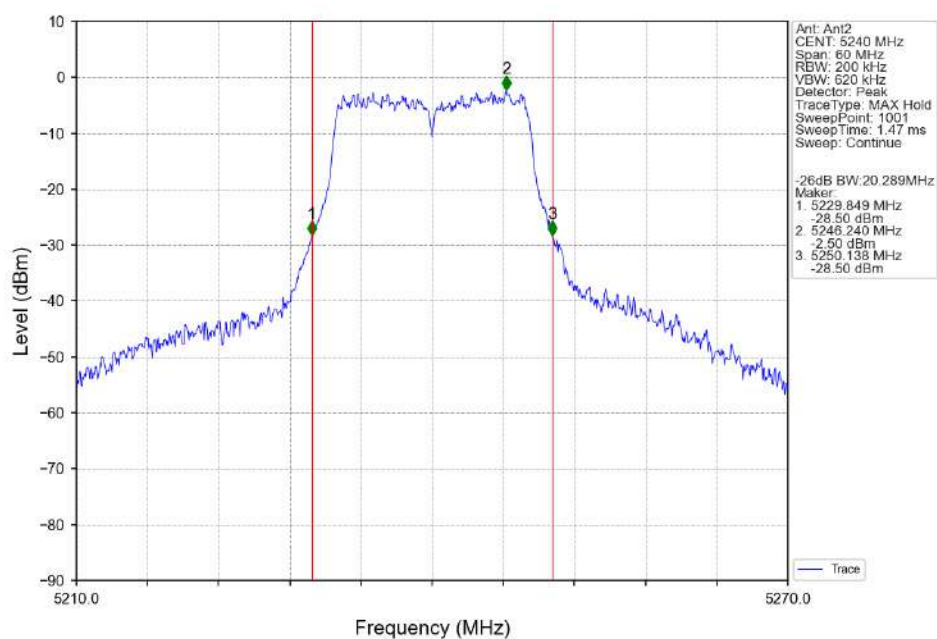
802.11a MCH 5200MHz Ant2 NTN



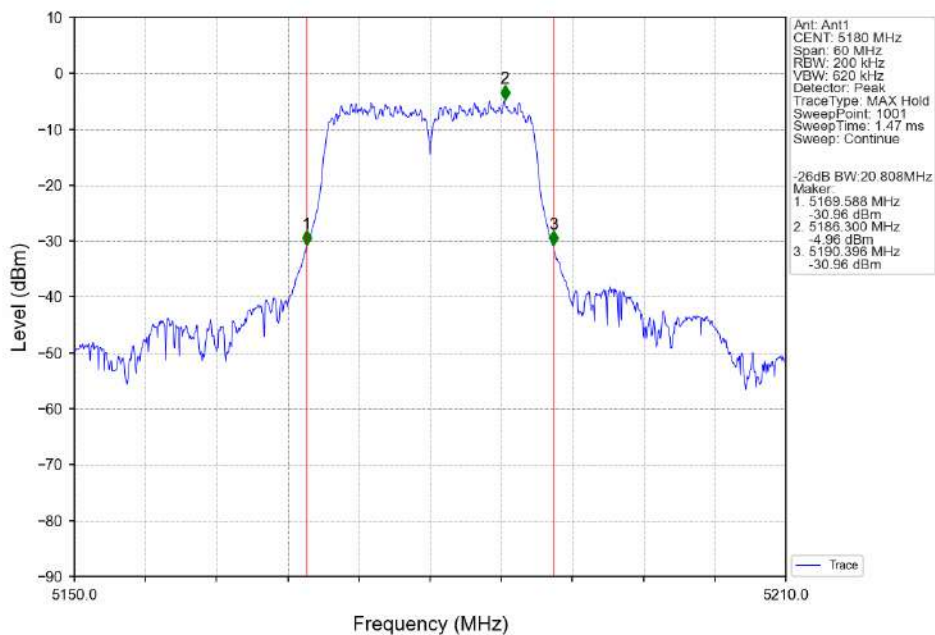
802.11a HCH 5240MHz Ant1 NTN



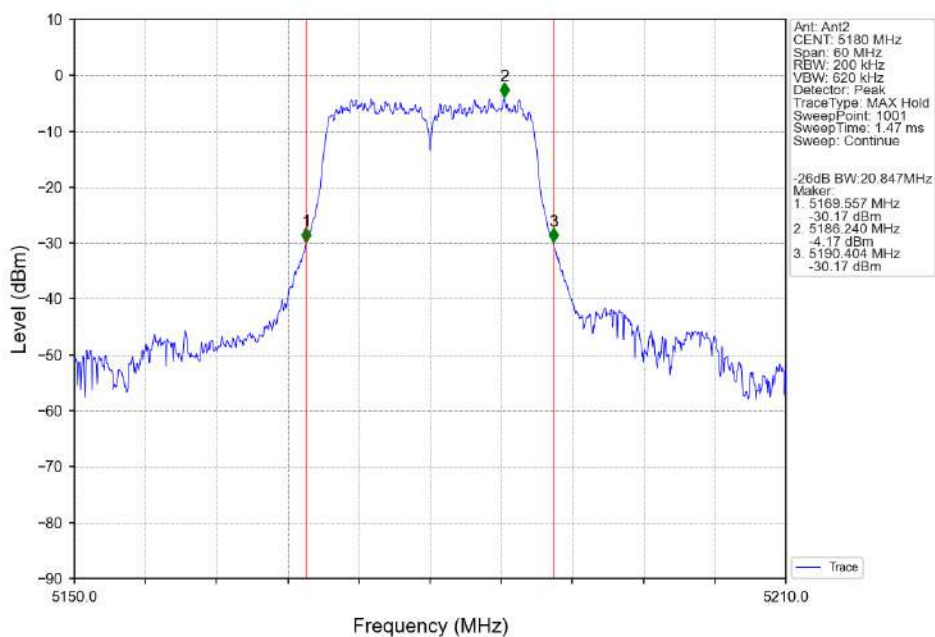
802.11a HCH 5240MHz Ant2 NTN



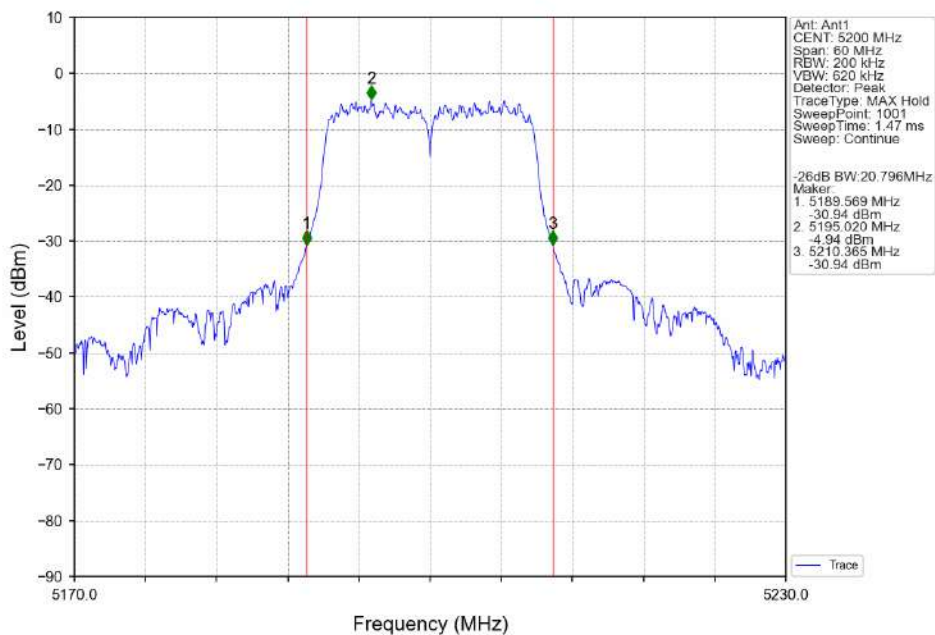
802.11n(HT20) LCH 5180MHz Ant1 NTN



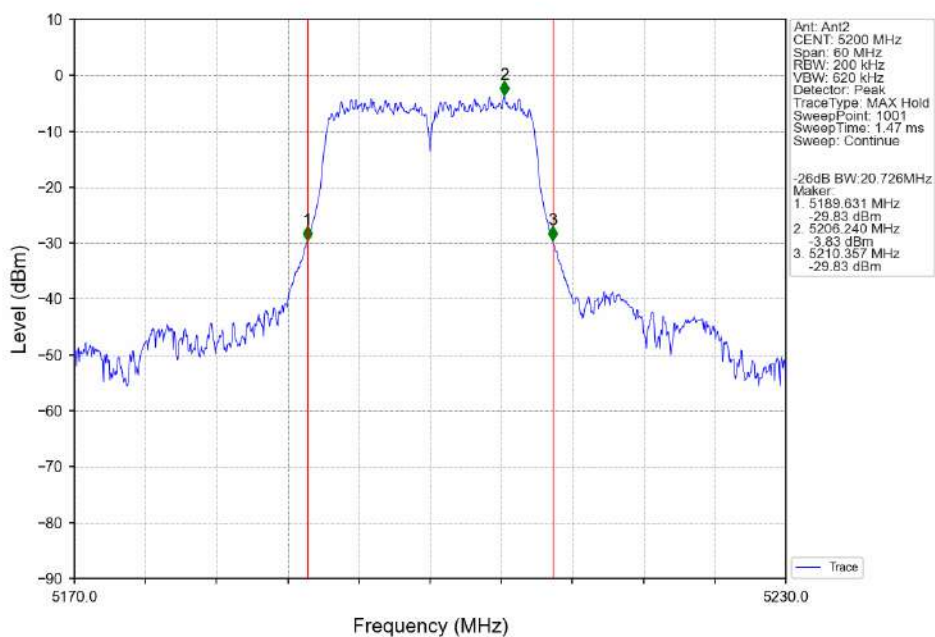
802.11n(HT20) LCH 5180MHz Ant2 NTN



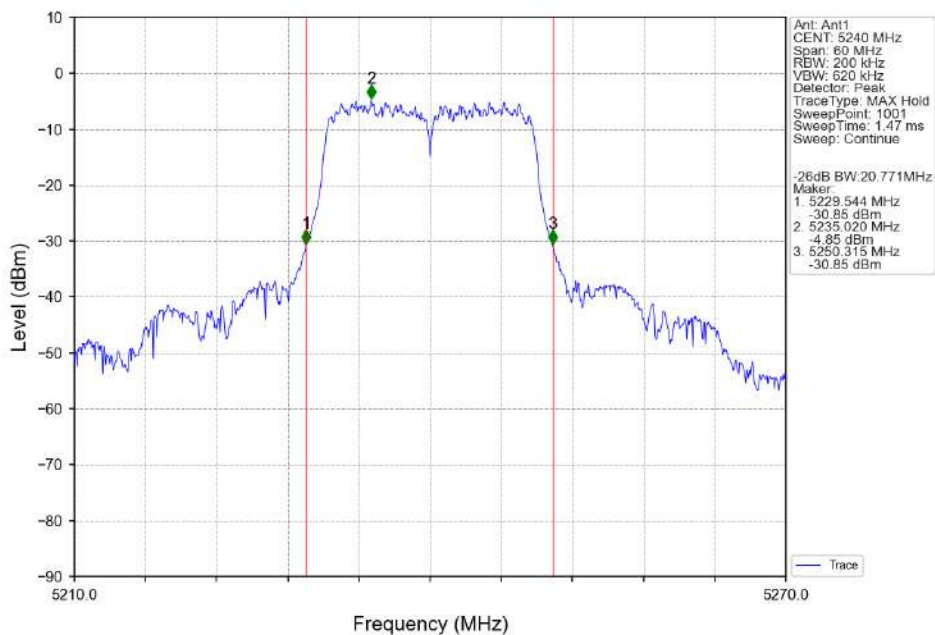
802.11n(HT20) MCH 5200MHz Ant1 NTN



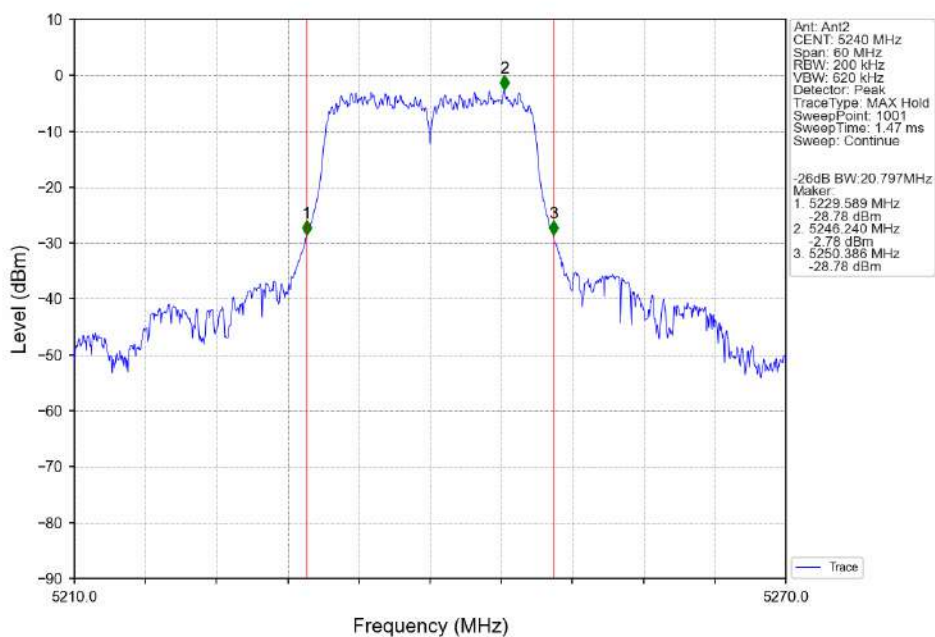
802.11n(HT20) MCH 5200MHz Ant2 NTN



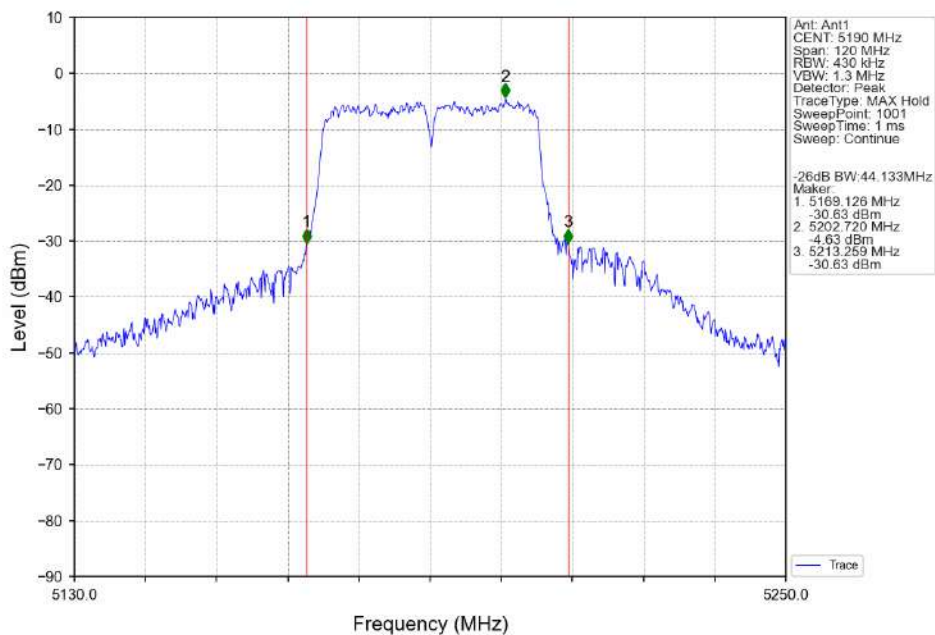
802.11n(HT20) HCH 5240MHz Ant1 NTN



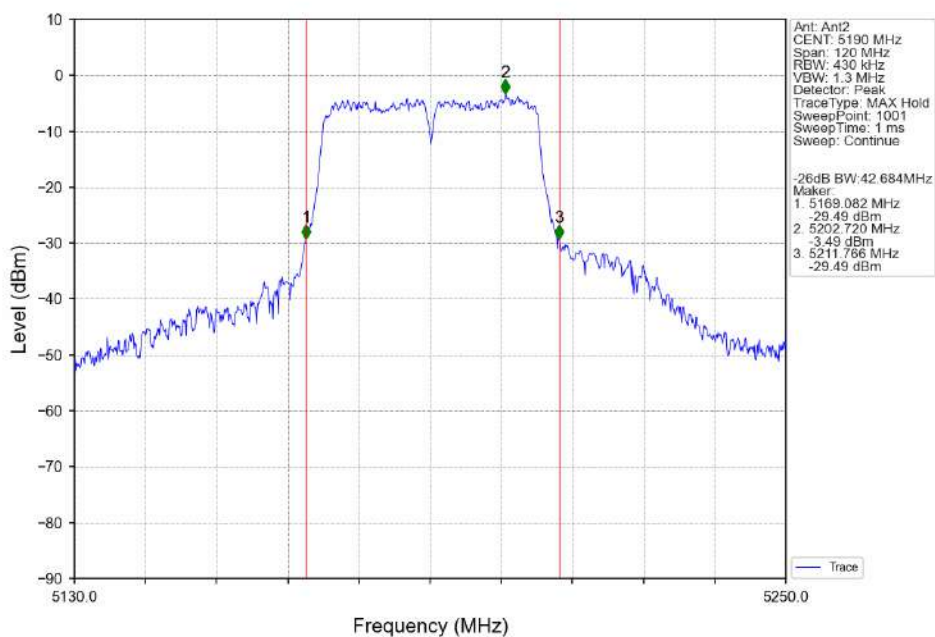
802.11n(HT20) HCH 5240MHz Ant2 NTN



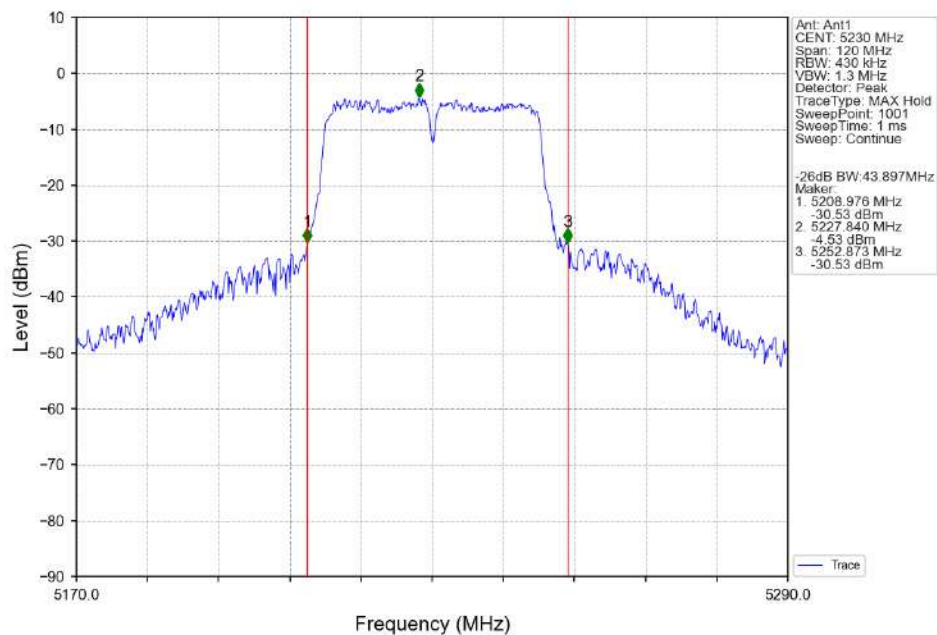
802.11n(HT40) LCH 5190MHz Ant1 NTN



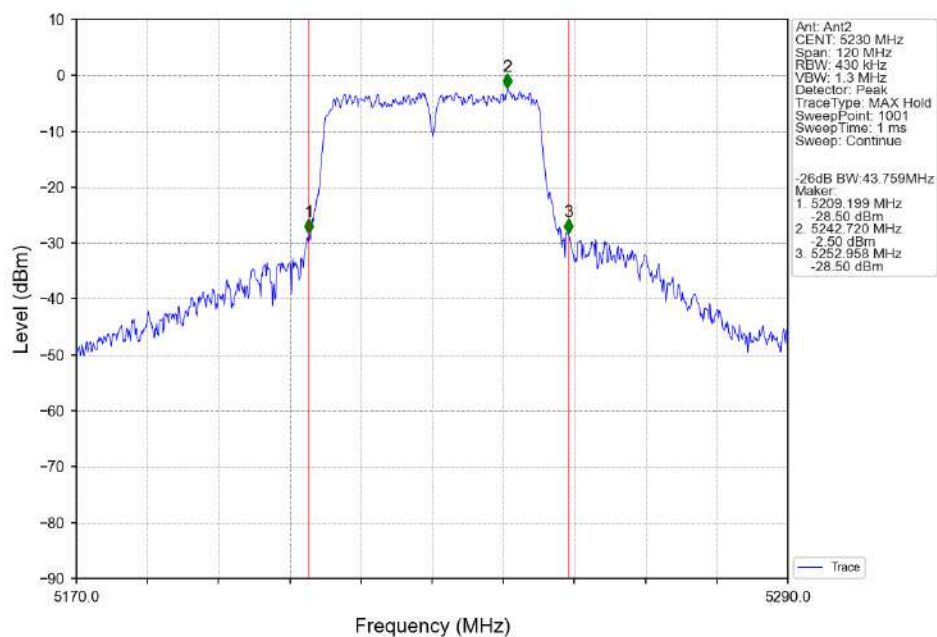
802.11n(HT40) LCH 5190MHz Ant2 NTN



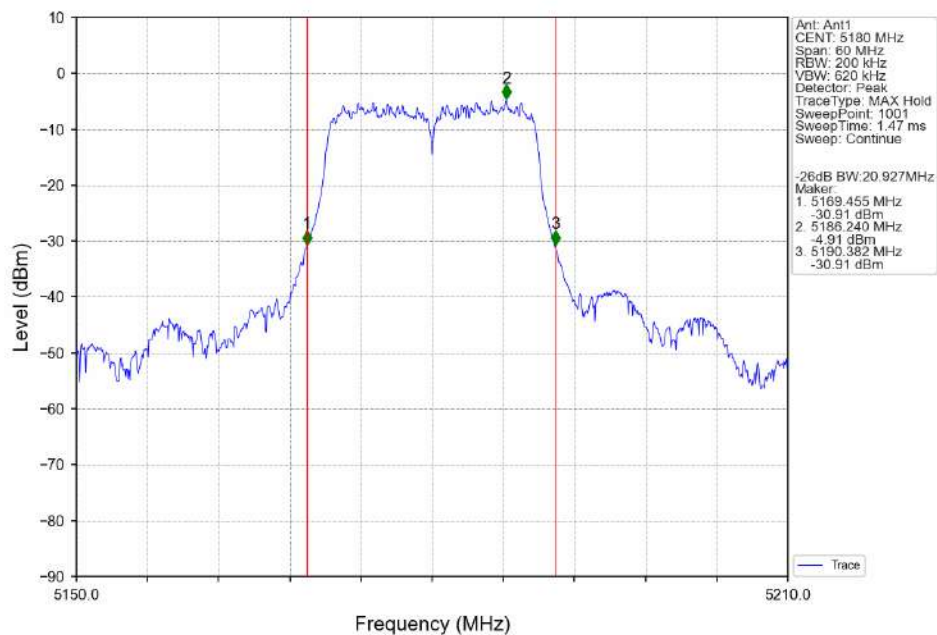
802.11n(HT40) HCH 5230MHz Ant1 NTN



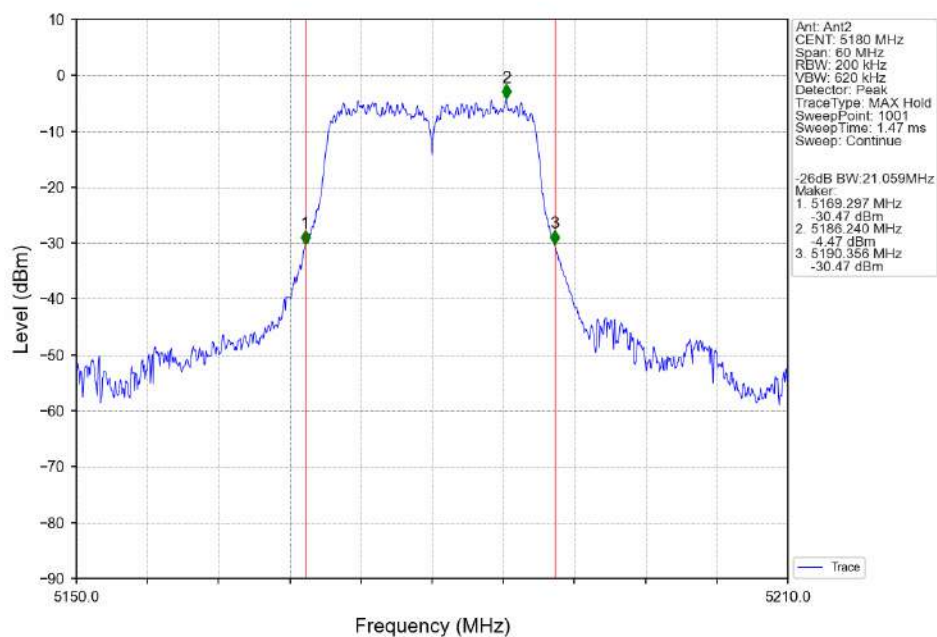
802.11n(HT40) HCH 5230MHz Ant2 NTN



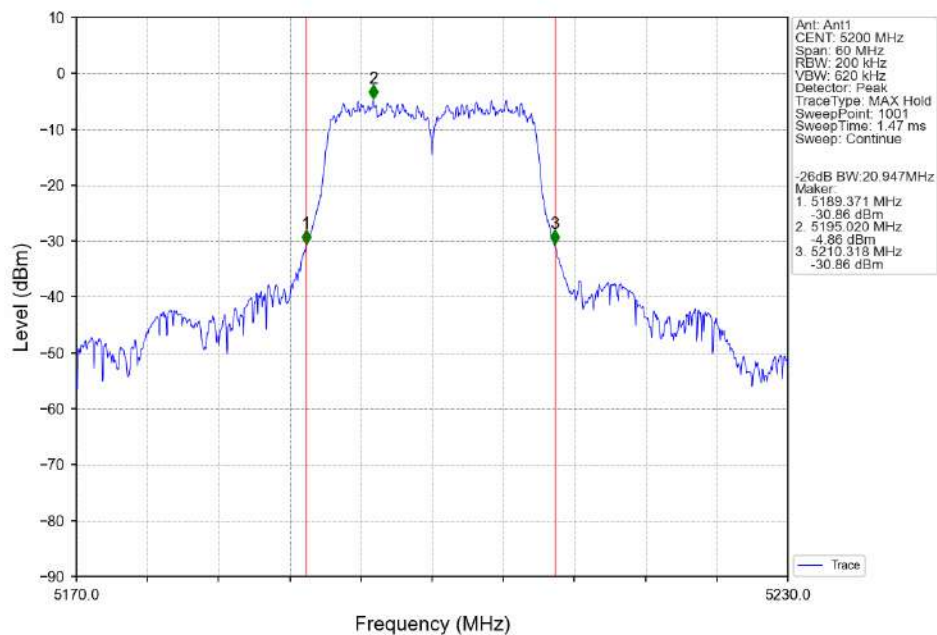
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



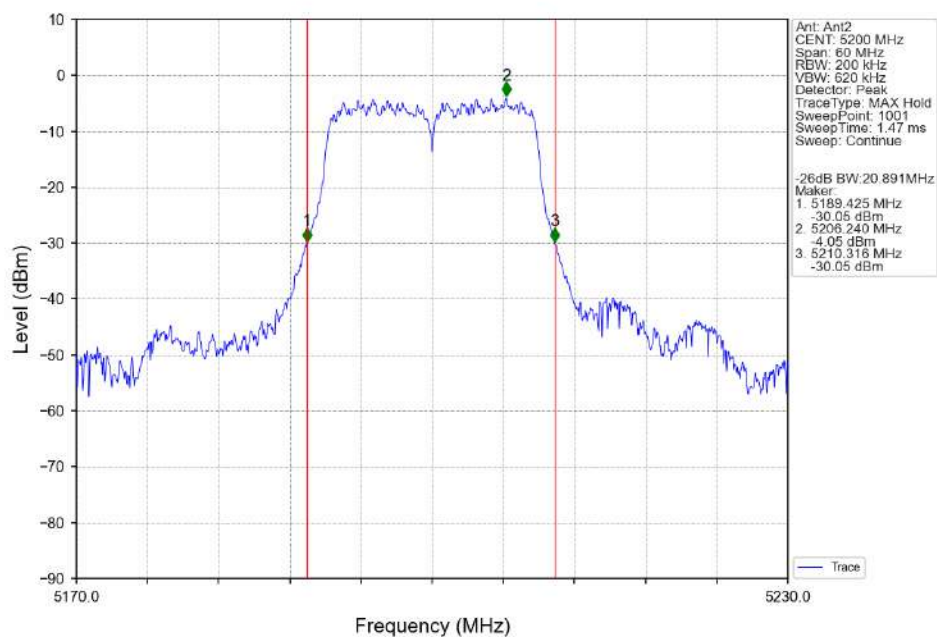
802.11ac(VHT20) LCH 5180MHz Ant2 NTN



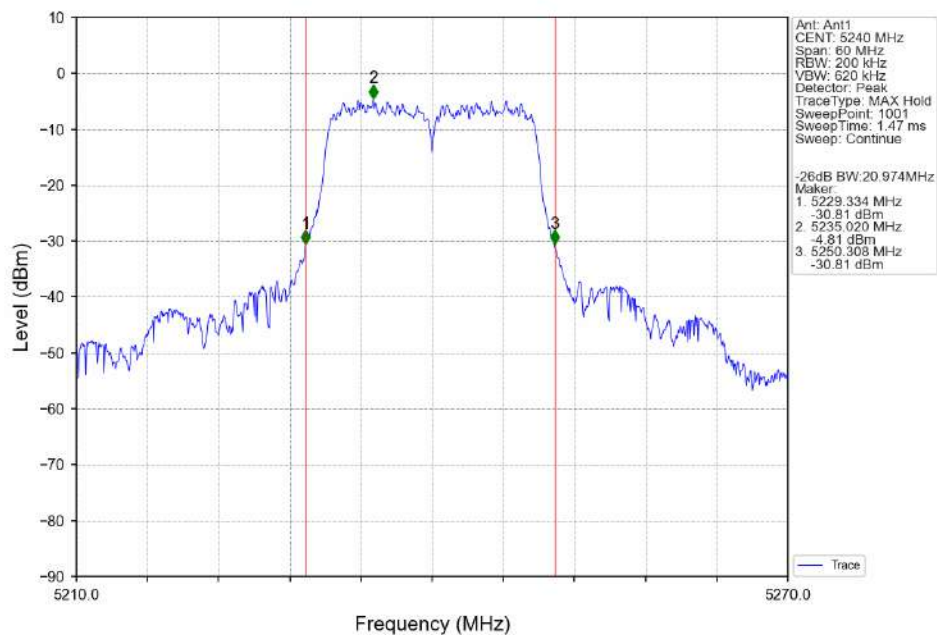
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



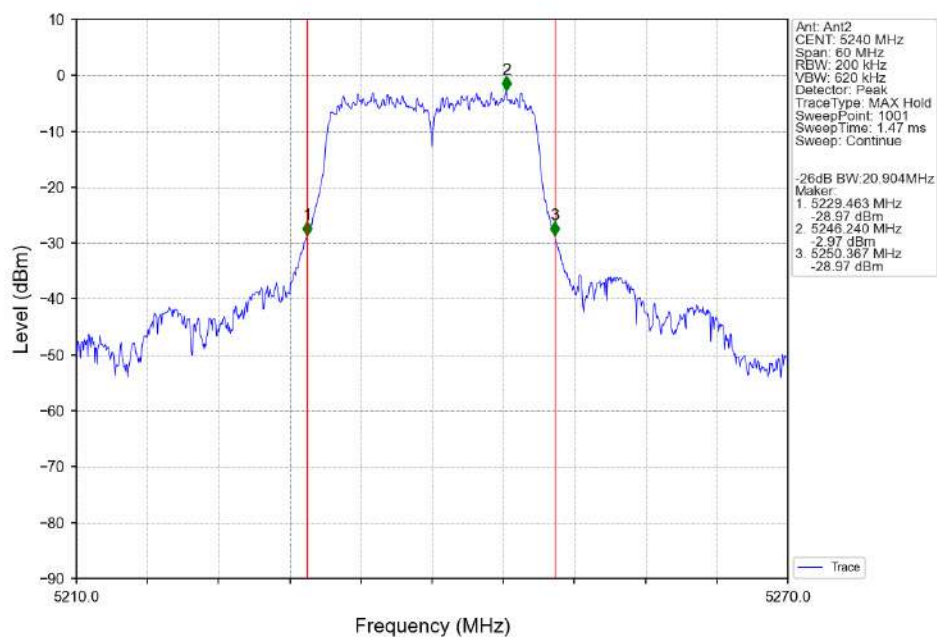
802.11ac(VHT20) MCH 5200MHz Ant2 NTN



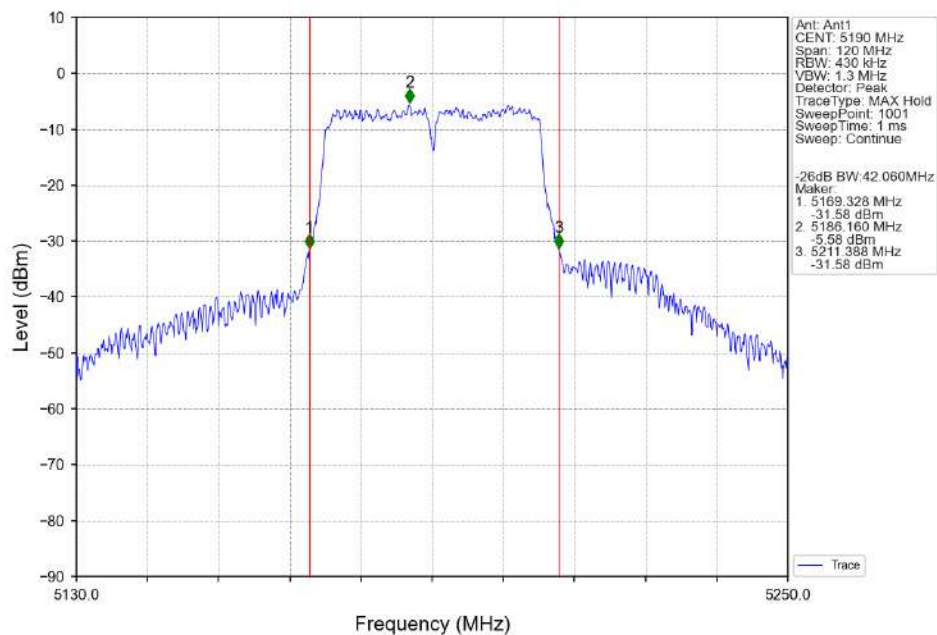
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



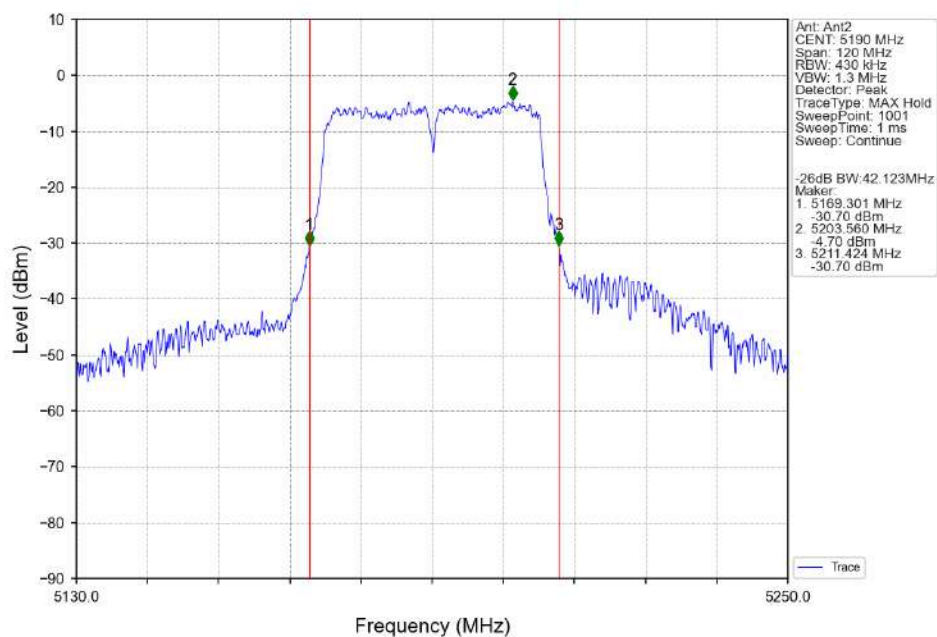
802.11ac(VHT20) HCH 5240MHz Ant2 NTN



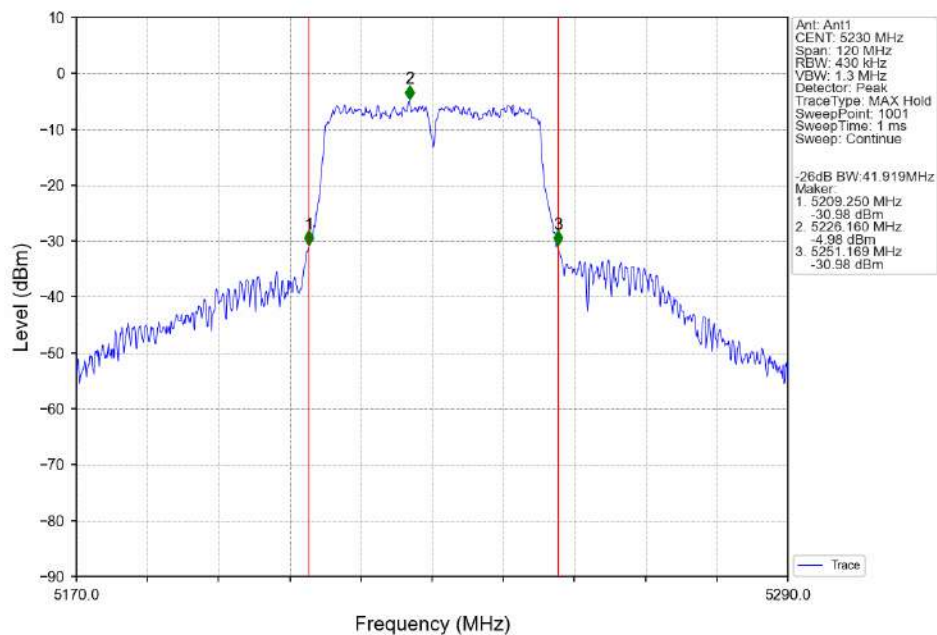
802.11ac(VHT40) LCH 5190MHz Ant1 NTN



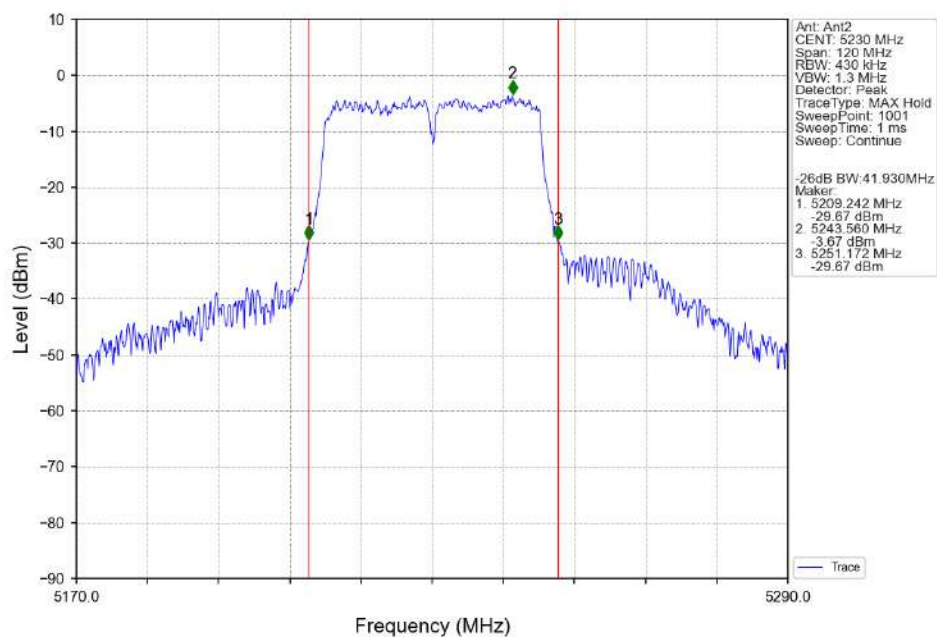
802.11ac(VHT40) LCH 5190MHz Ant2 NTN



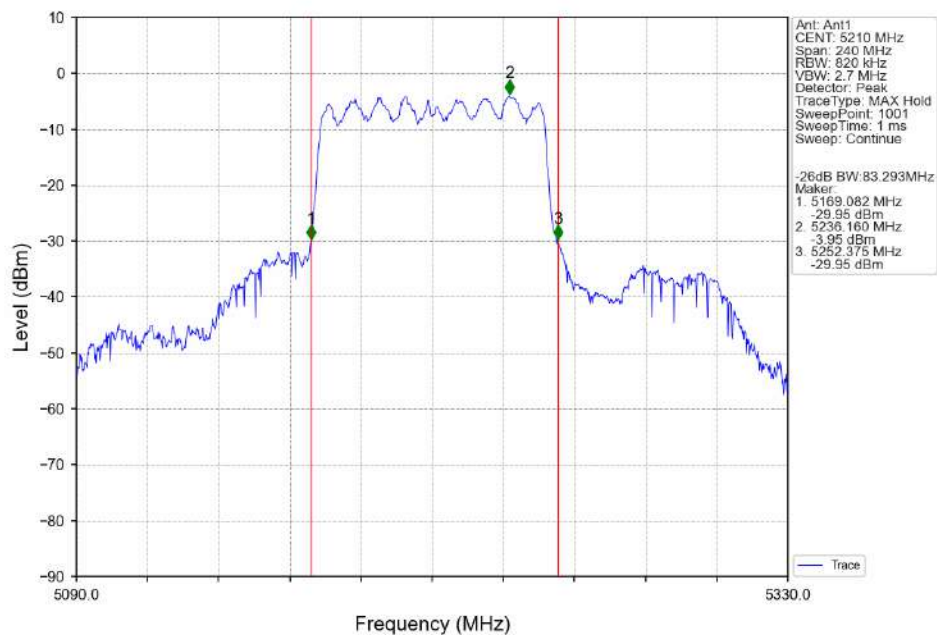
802.11ac(VHT40) HCH 5230MHz Ant1 NTN



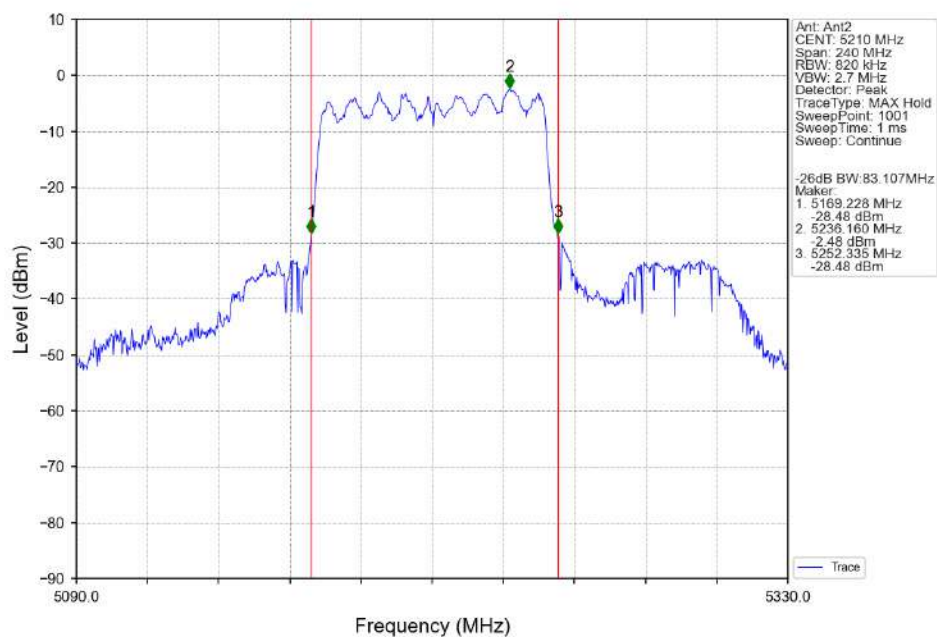
802.11ac(VHT40) HCH 5230MHz Ant2 NTN



802.11ac(VHT80) MCH 5210MHz Ant1 NTN



802.11ac(VHT80) MCH 5210MHz Ant2 NTN



2. Maximum Conducted Output Power

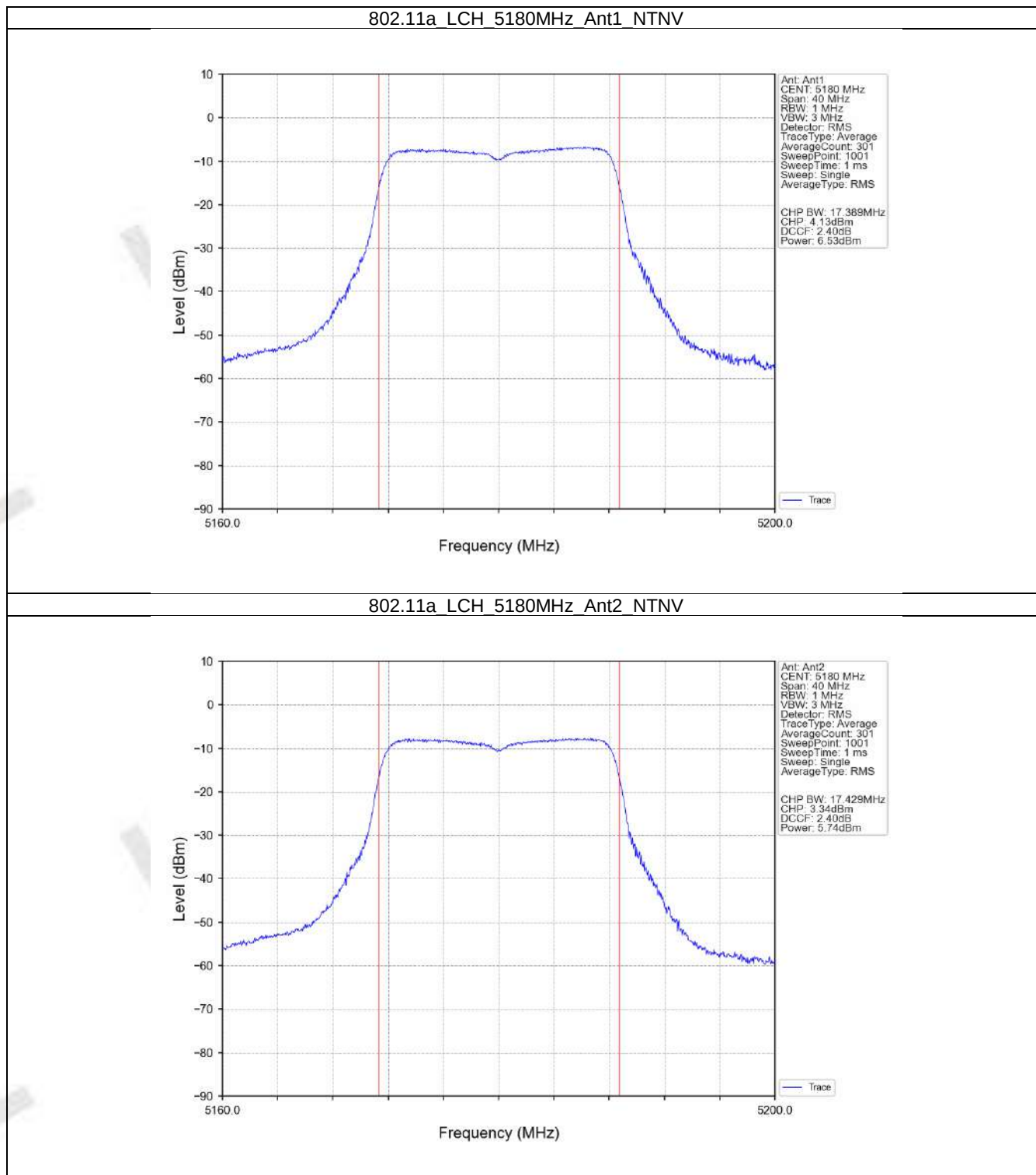
2.1 Test Result

2.1.1 Power

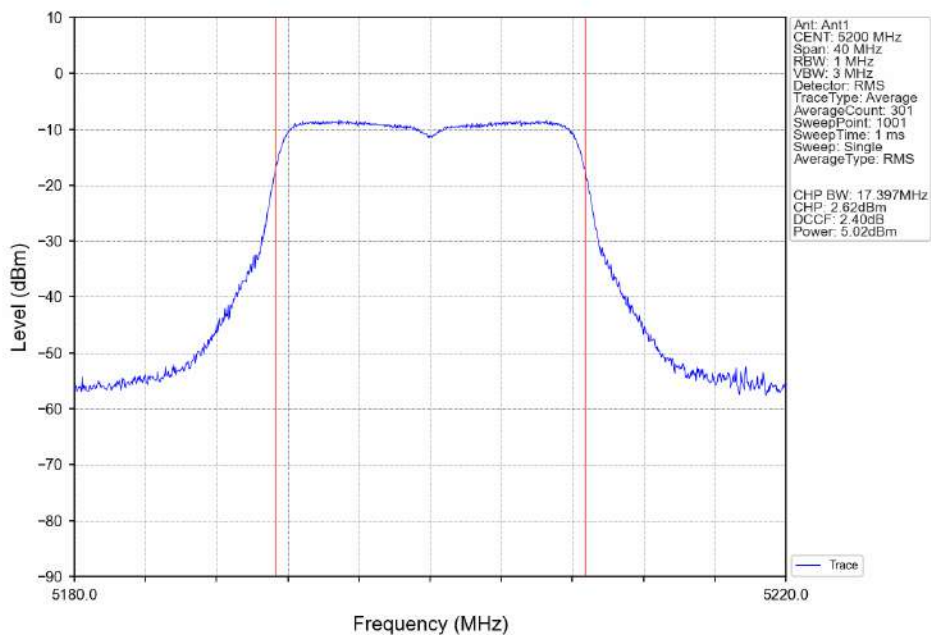
Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)			Verdict
			ANT1	ANT2	Limit	
802.11a	SISO	5180	6.53	5.74	<=23.98	Pass
		5200	5.02	6.11	<=23.98	Pass
		5240	4.74	7.34	<=23.98	Pass
802.11n (HT20)	SISO	5180	4.72	5.86	<=23.98	Pass
		5200	4.92	5.95	<=23.98	Pass
		5240	4.97	6.94	<=23.98	Pass
802.11n (HT40)	SISO	5190	5.76	6.68	<=23.98	Pass
		5230	5.87	7.07	<=23.98	Pass
802.11ac (VHT20)	SISO	5180	4.89	5.57	<=23.98	Pass
		5200	5.12	5.77	<=23.98	Pass
		5240	5.14	6.74	<=23.98	Pass
802.11ac (VHT40)	SISO	5190	5.00	5.53	<=23.98	Pass
		5230	4.95	6.77	<=23.98	Pass
802.11ac (VHT80)	SISO	5210	5.45	6.65	<=23.98	Pass
Note1: Antenna Gain: Ant1: 1.26dBi; Ant2: 1.20dBi;						

2.2 Test Graph

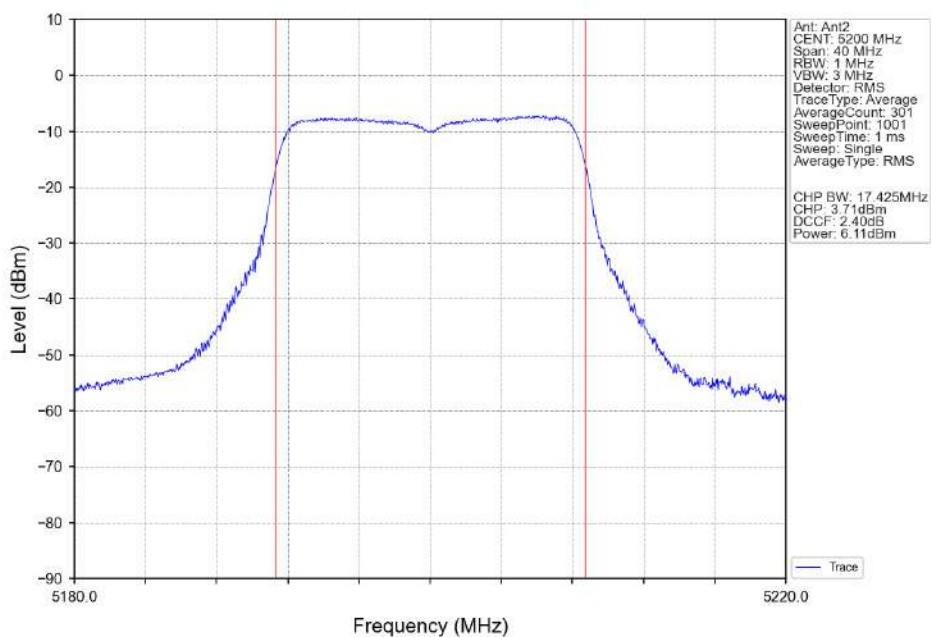
2.2.1 Power



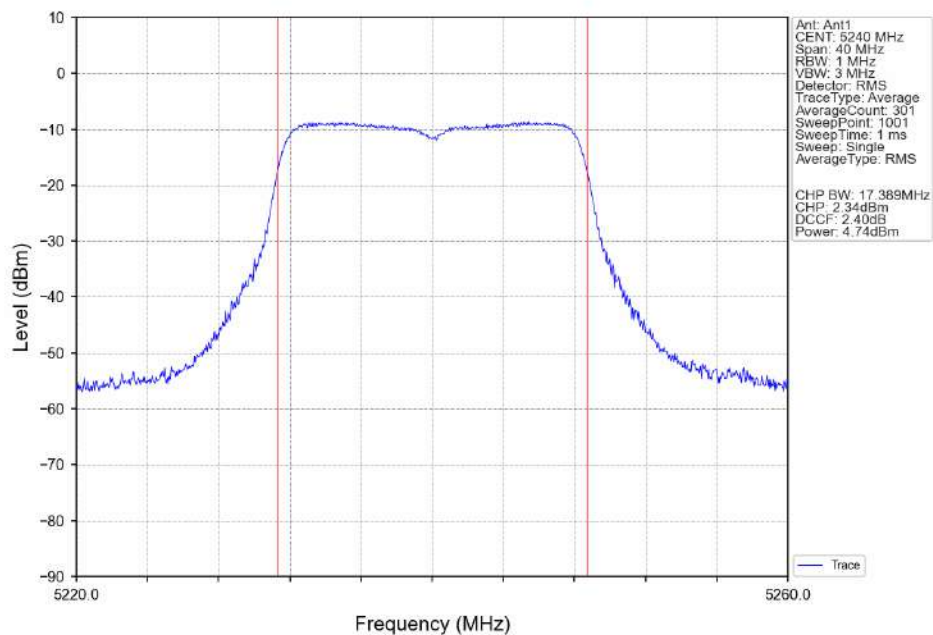
802.11a MCH 5200MHz Ant1 NTVN



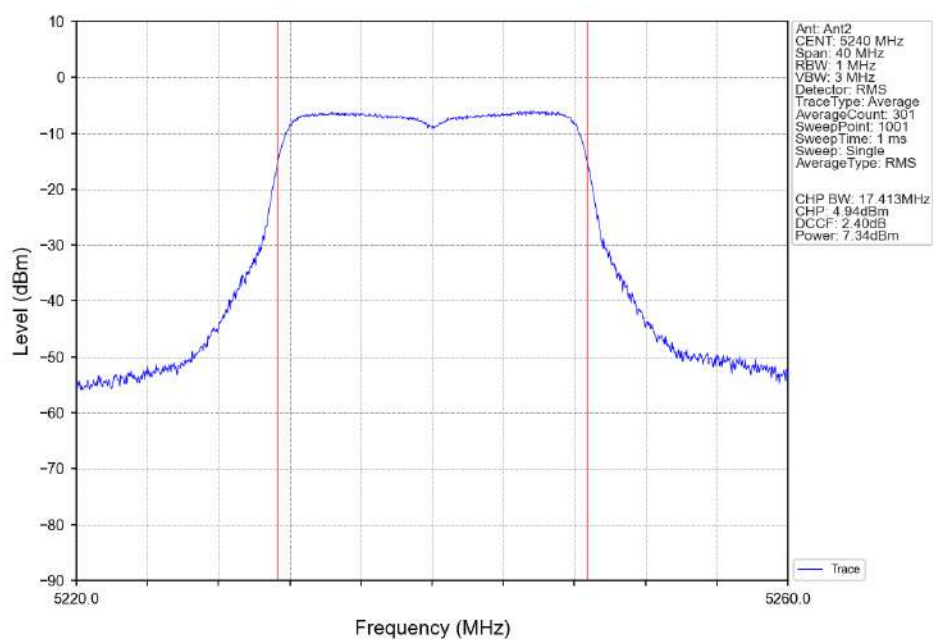
802.11a MCH 5200MHz Ant2 NTVN



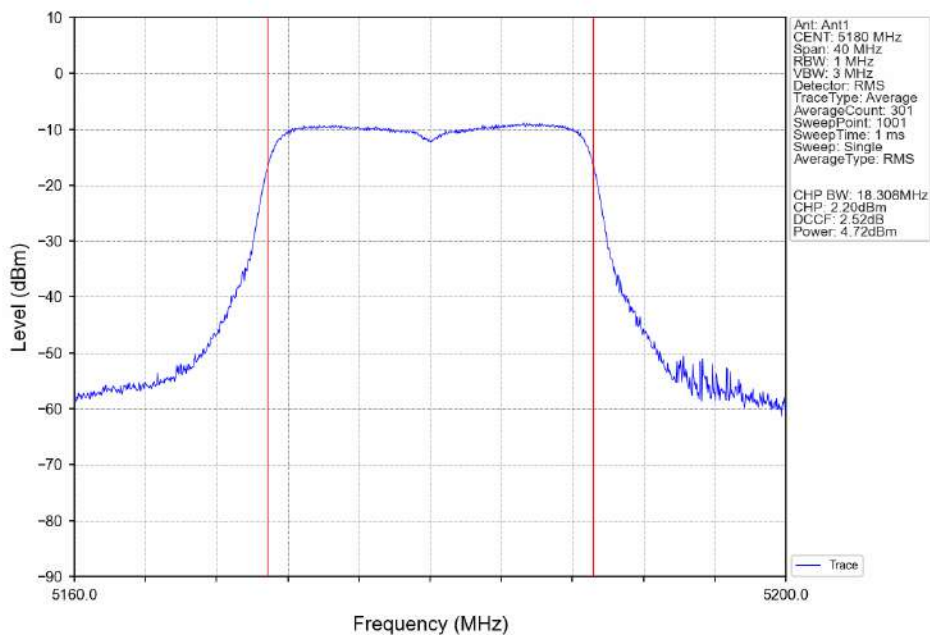
802.11a HCH 5240MHz Ant1 NTN



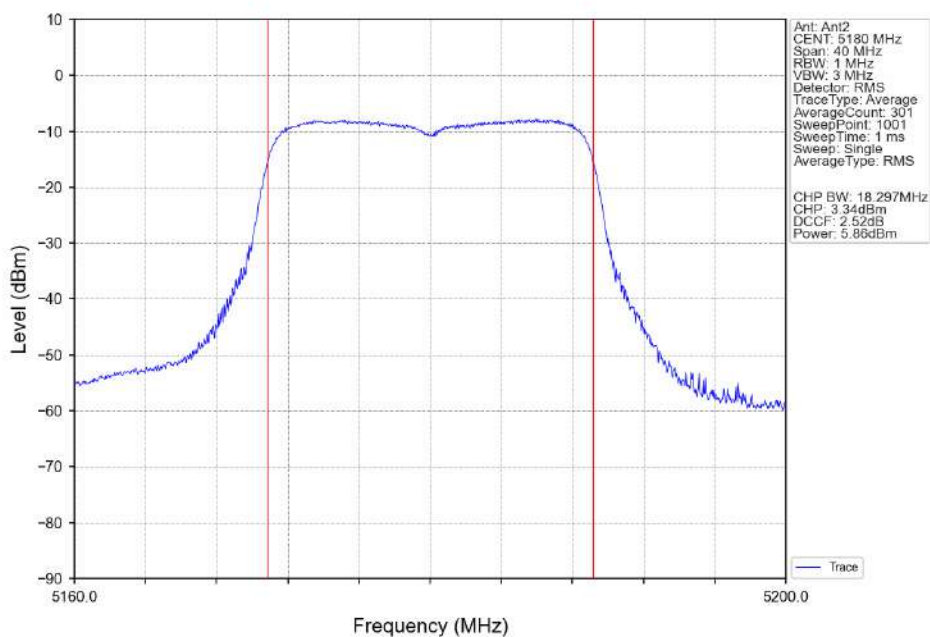
802.11a HCH 5240MHz Ant2 NTN



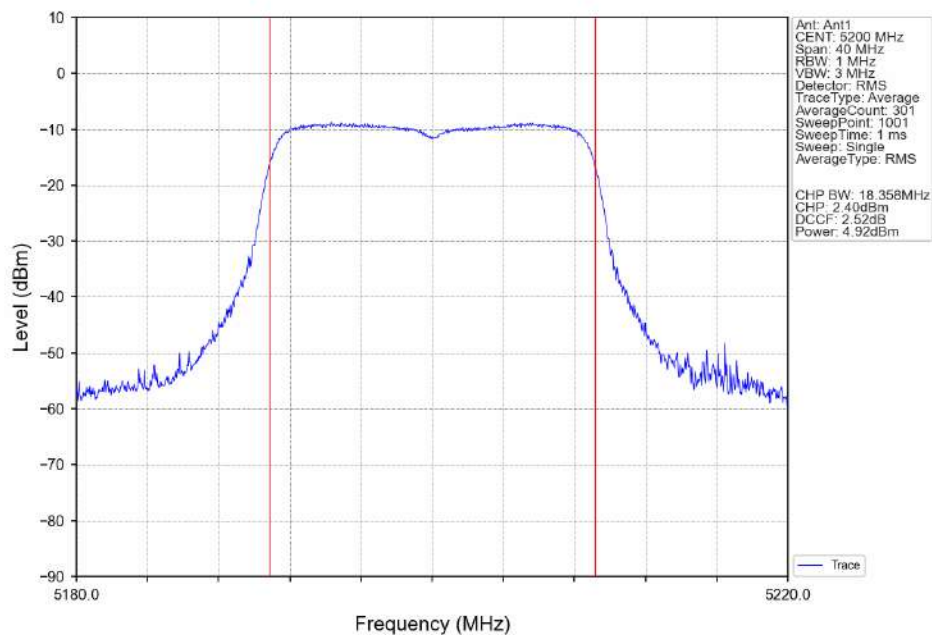
802.11n(HT20) LCH 5180MHz Ant1 NTN



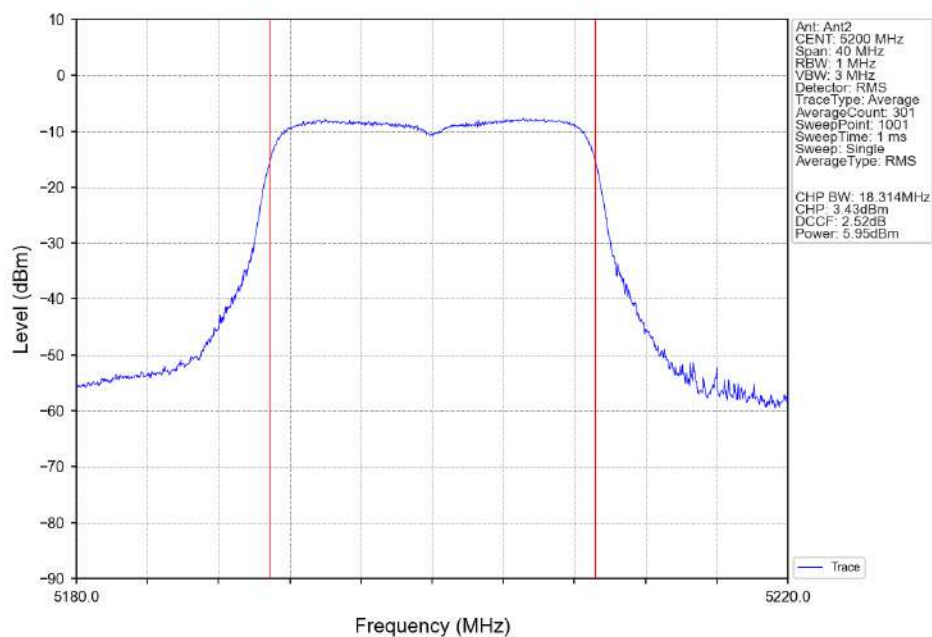
802.11n(HT20) LCH 5180MHz Ant2 NTN



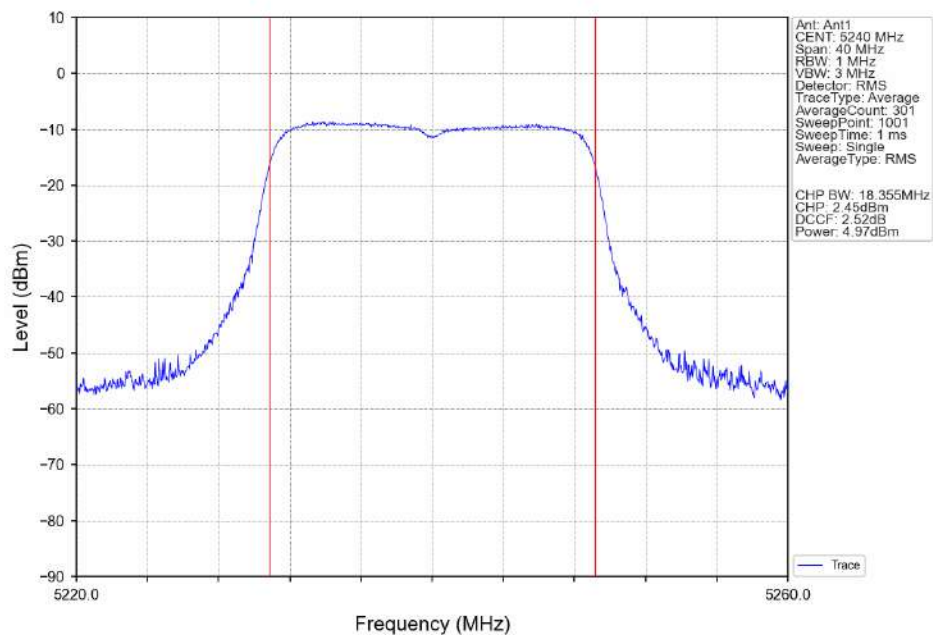
802.11n(HT20) MCH 5200MHz Ant1 NTN



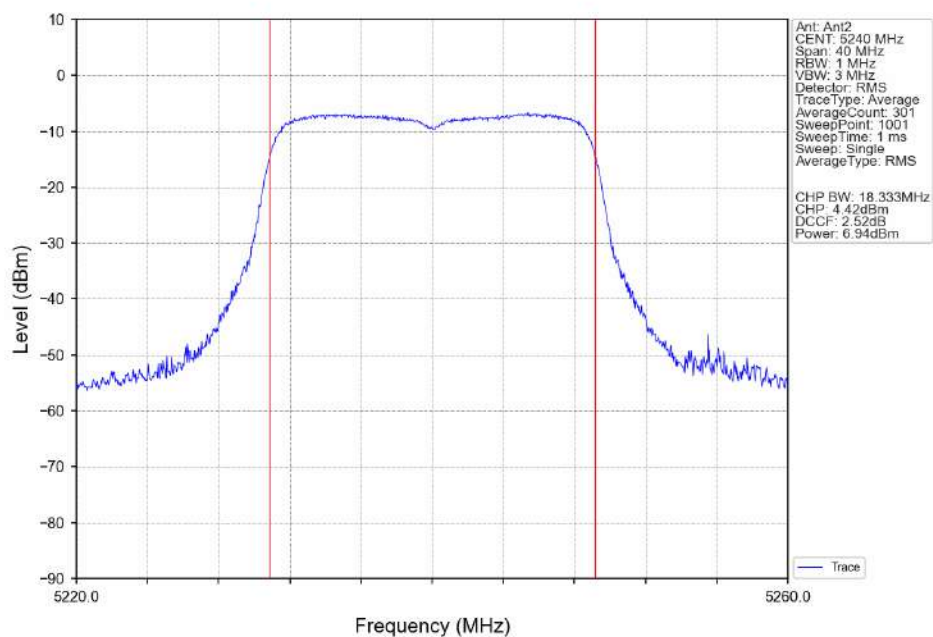
802.11n(HT20) MCH 5200MHz Ant2 NTN



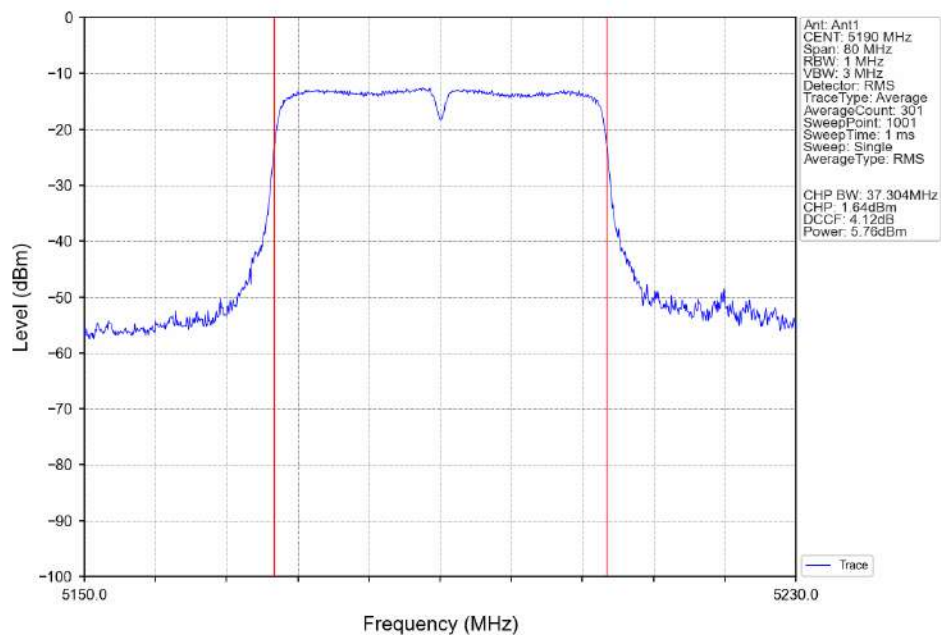
802.11n(HT20) HCH 5240MHz Ant1 NTN



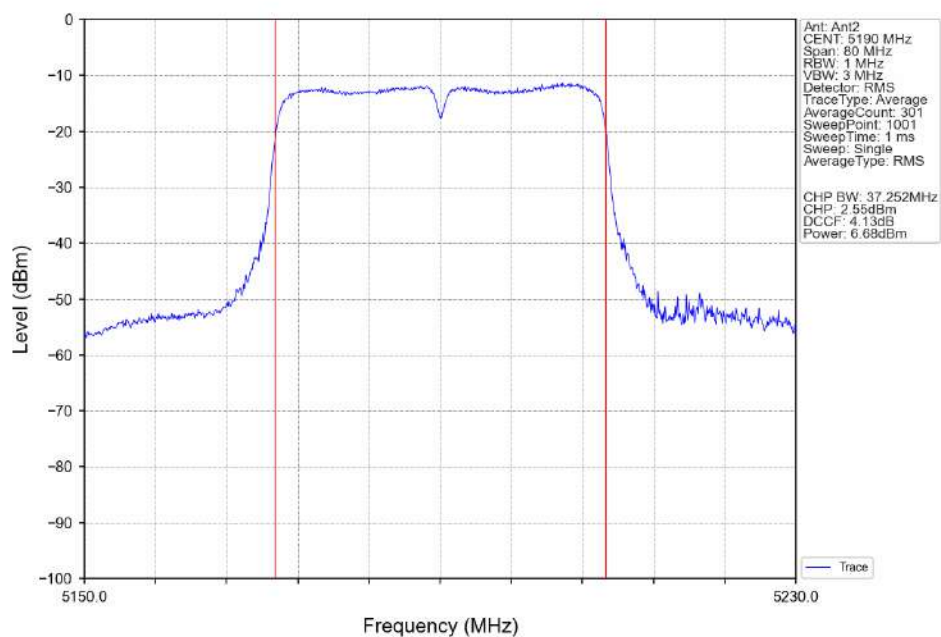
802.11n(HT20) HCH 5240MHz Ant2 NTN



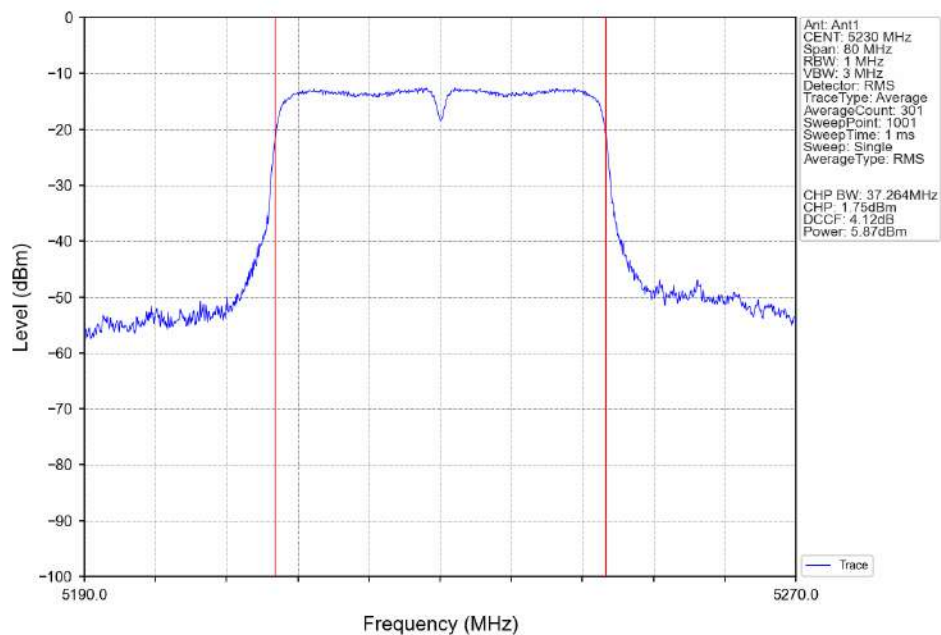
802.11n(HT40) LCH 5190MHz Ant1 NTN



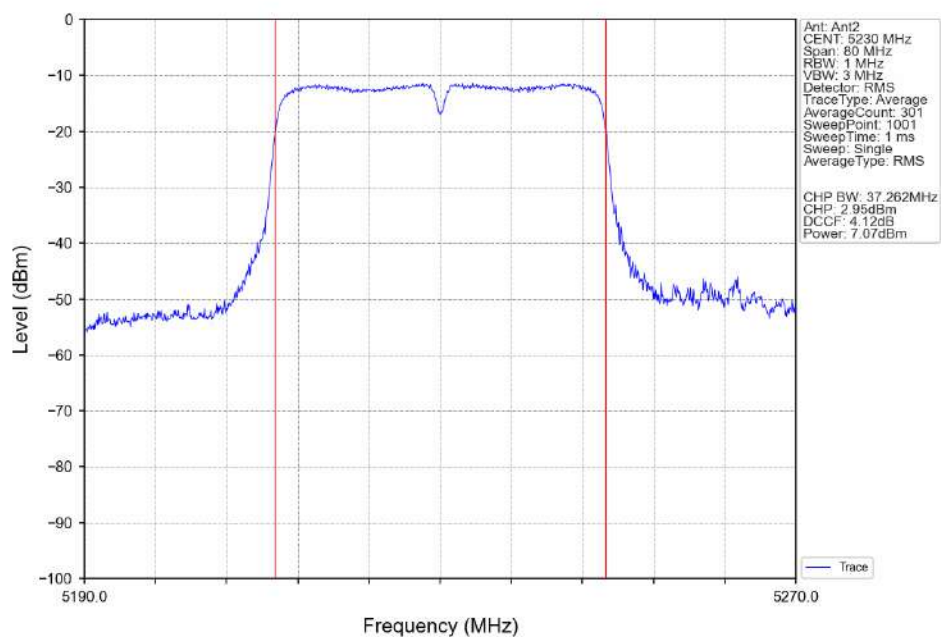
802.11n(HT40) LCH 5190MHz Ant2 NTN



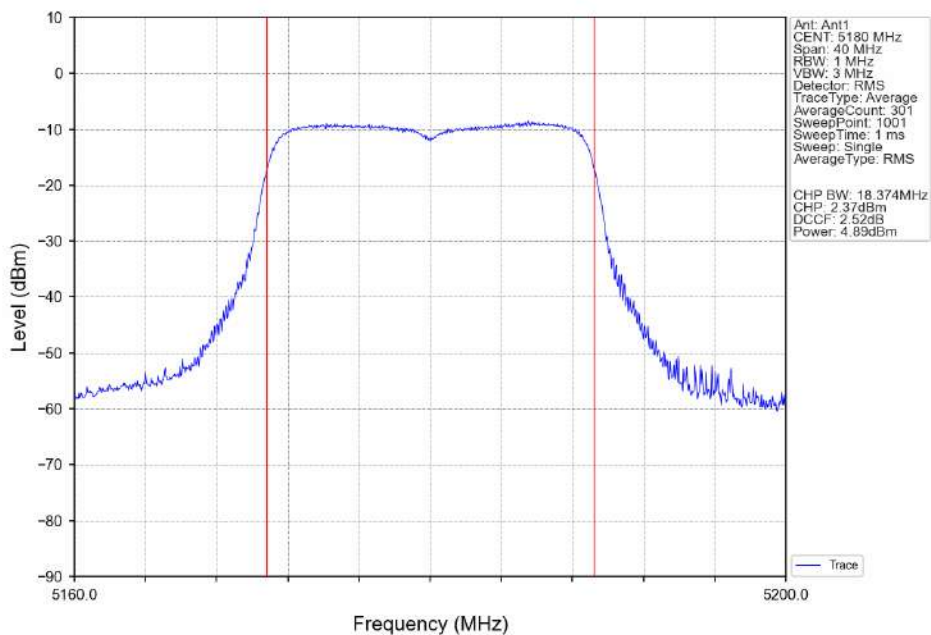
802.11n(HT40) HCH 5230MHz Ant1 NTN



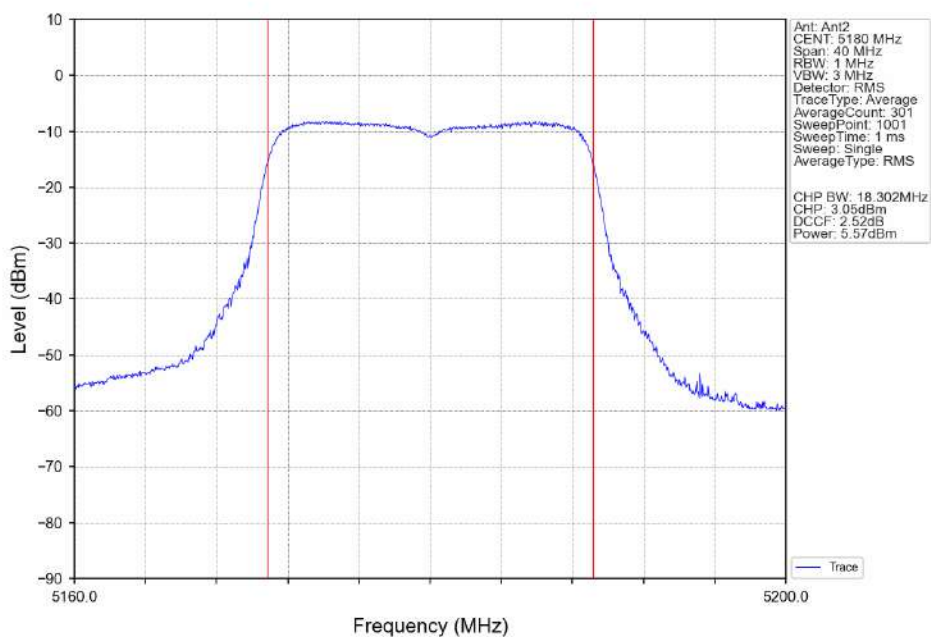
802.11n(HT40) HCH 5230MHz Ant2 NTN



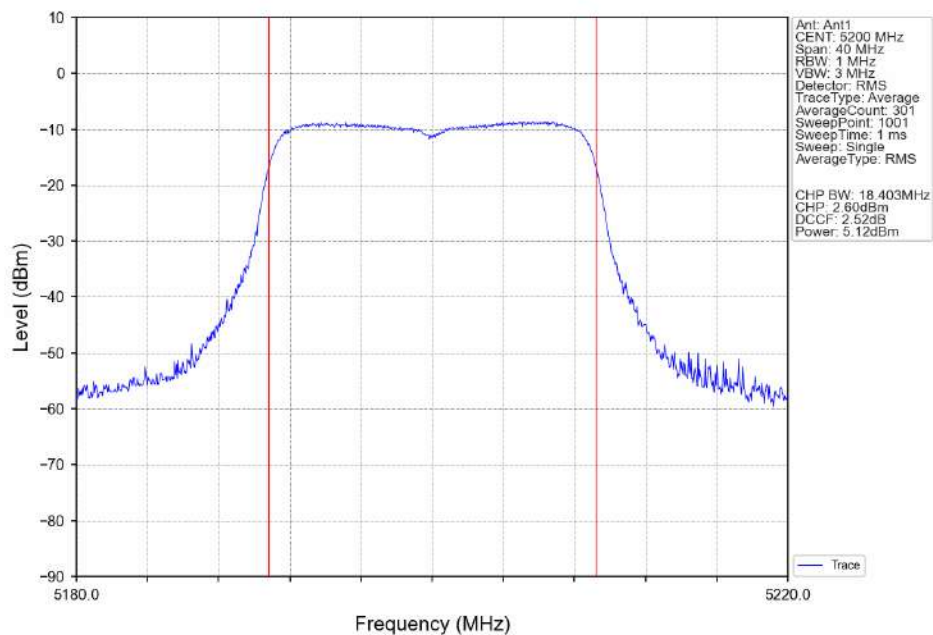
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



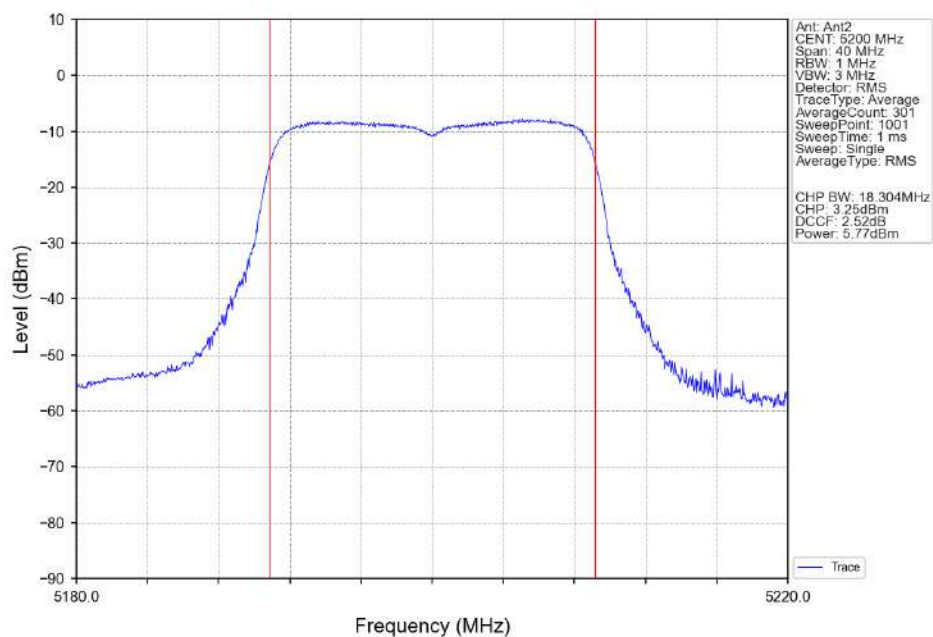
802.11ac(VHT20) LCH 5180MHz Ant2 NTN



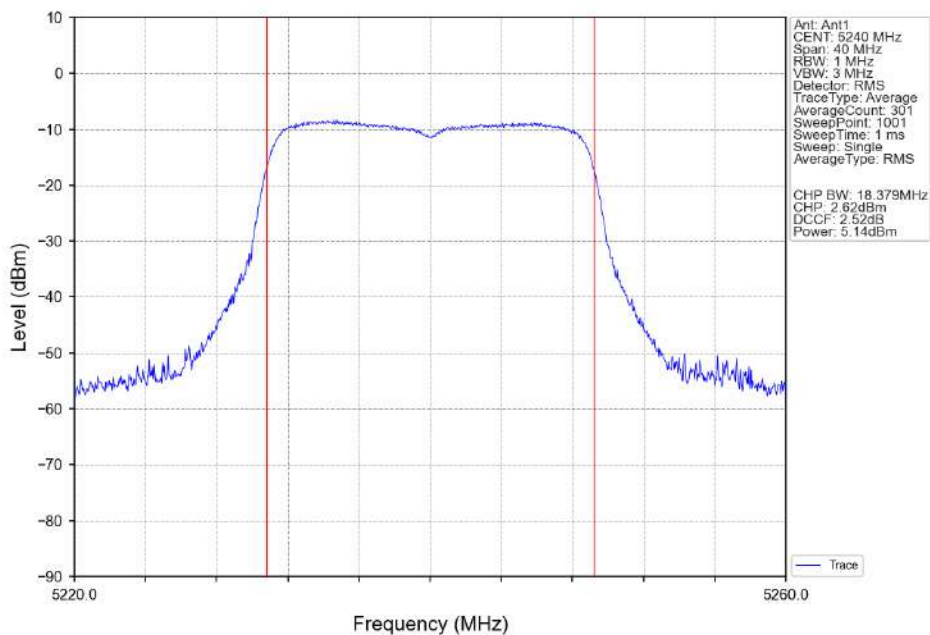
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



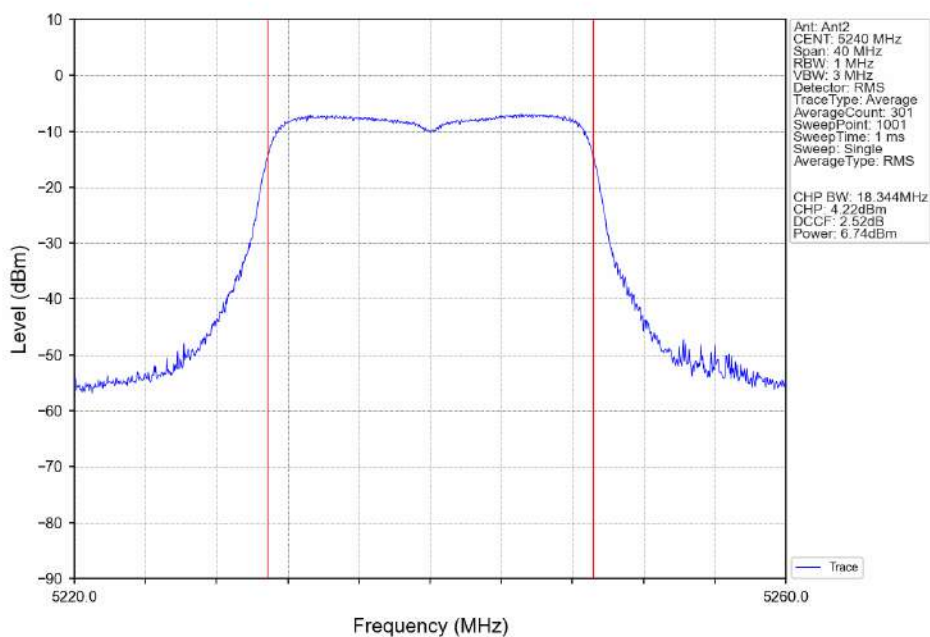
802.11ac(VHT20) MCH 5200MHz Ant2 NTN



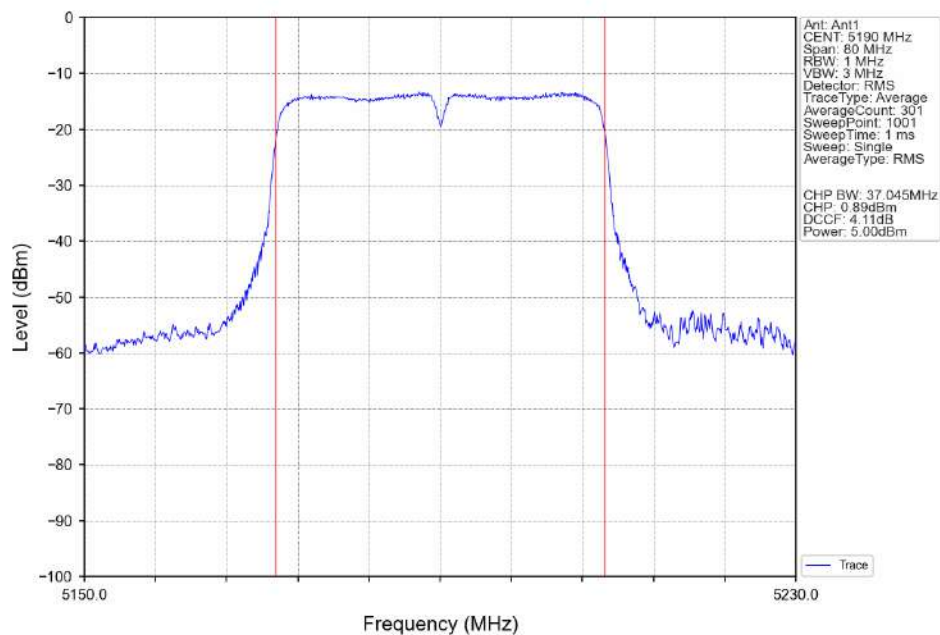
802.11ac(VHT20) HCH 5240MHz Ant1 NTV



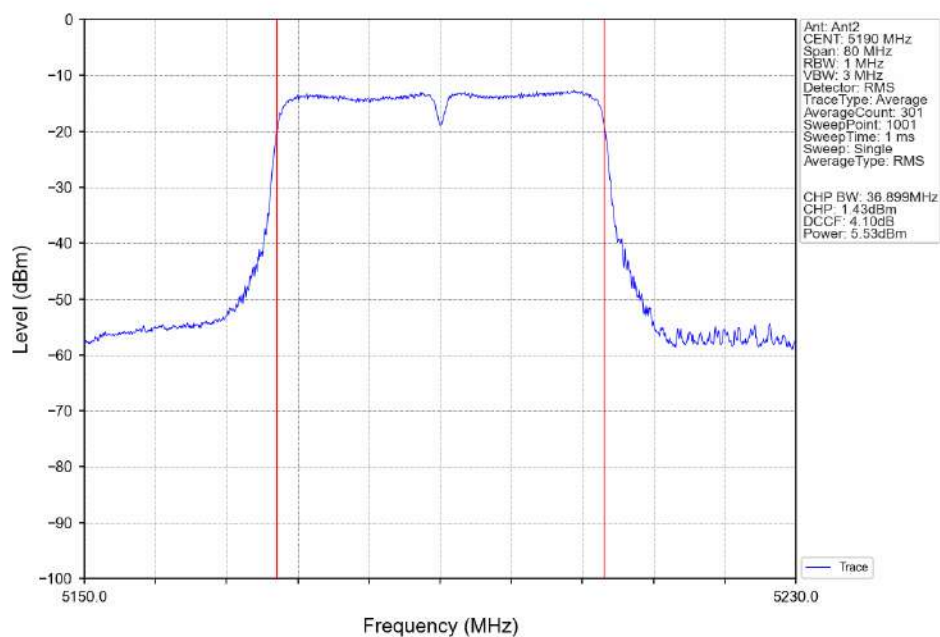
802.11ac(VHT20) HCH 5240MHz Ant2 NTV



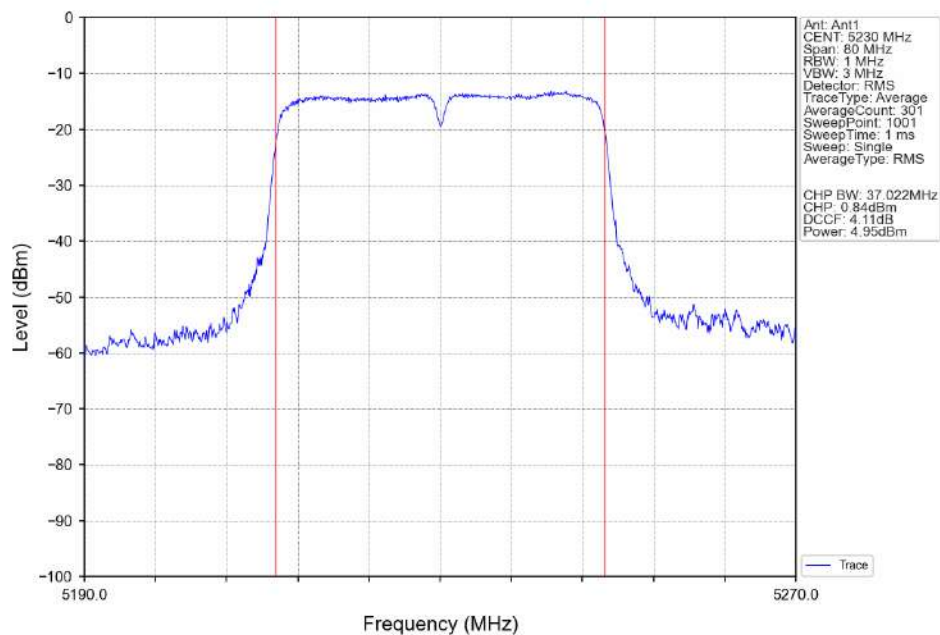
802.11ac(VHT40) LCH 5190MHz Ant1 NTN



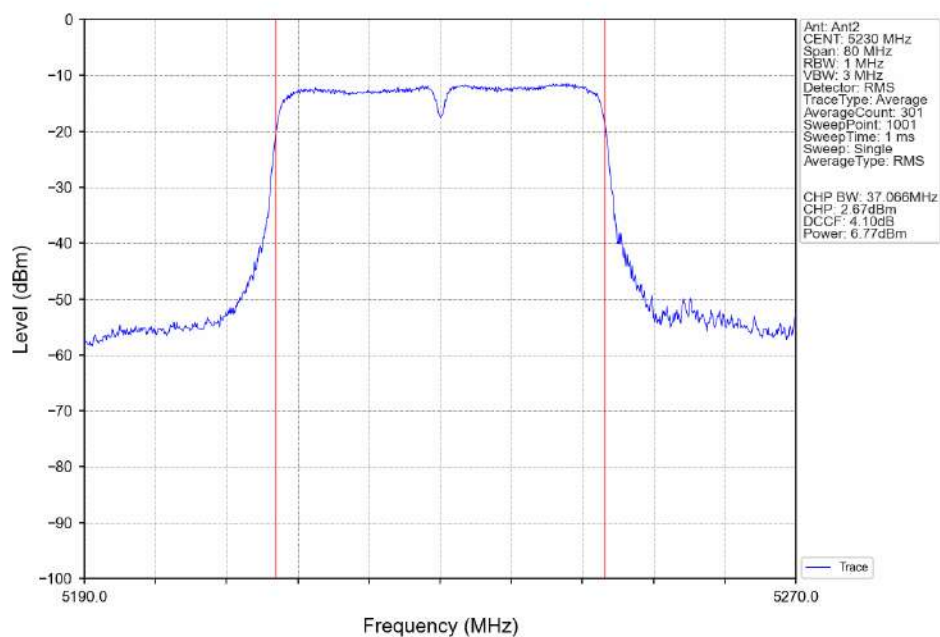
802.11ac(VHT40) LCH 5190MHz Ant2 NTN



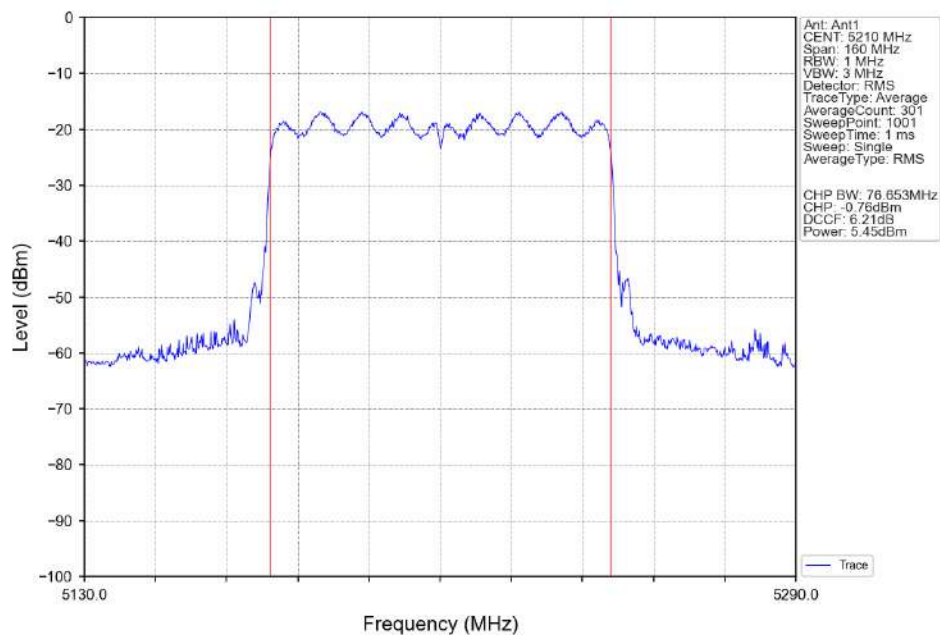
802.11ac(VHT40) HCH 5230MHz Ant1 NTN



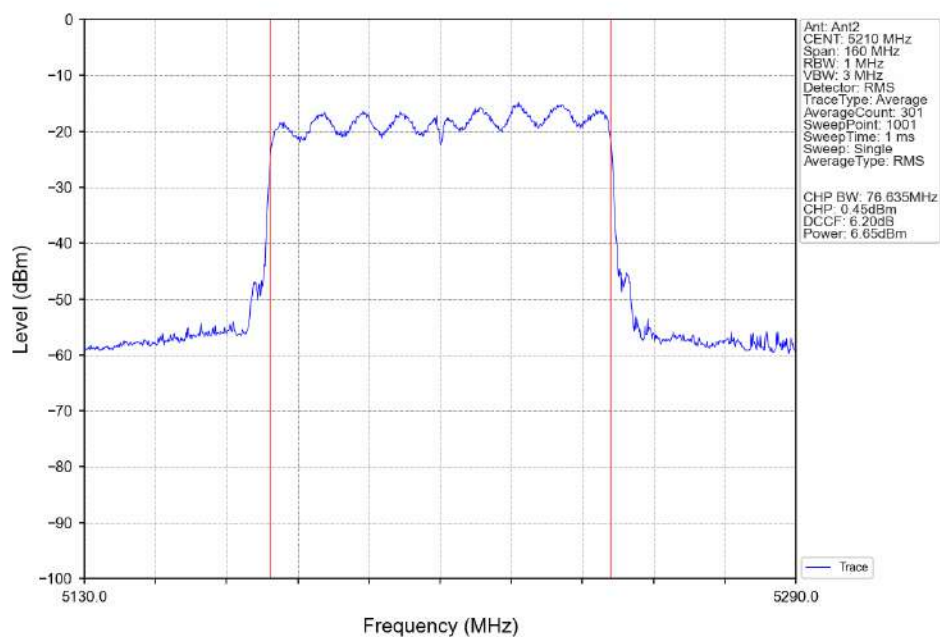
802.11ac(VHT40) HCH 5230MHz Ant2 NTN



802.11ac(VHT80) MCH 5210MHz Ant1 NTV



802.11ac(VHT80) MCH 5210MHz Ant2 NTV



3. Maximum Power Spectral Density

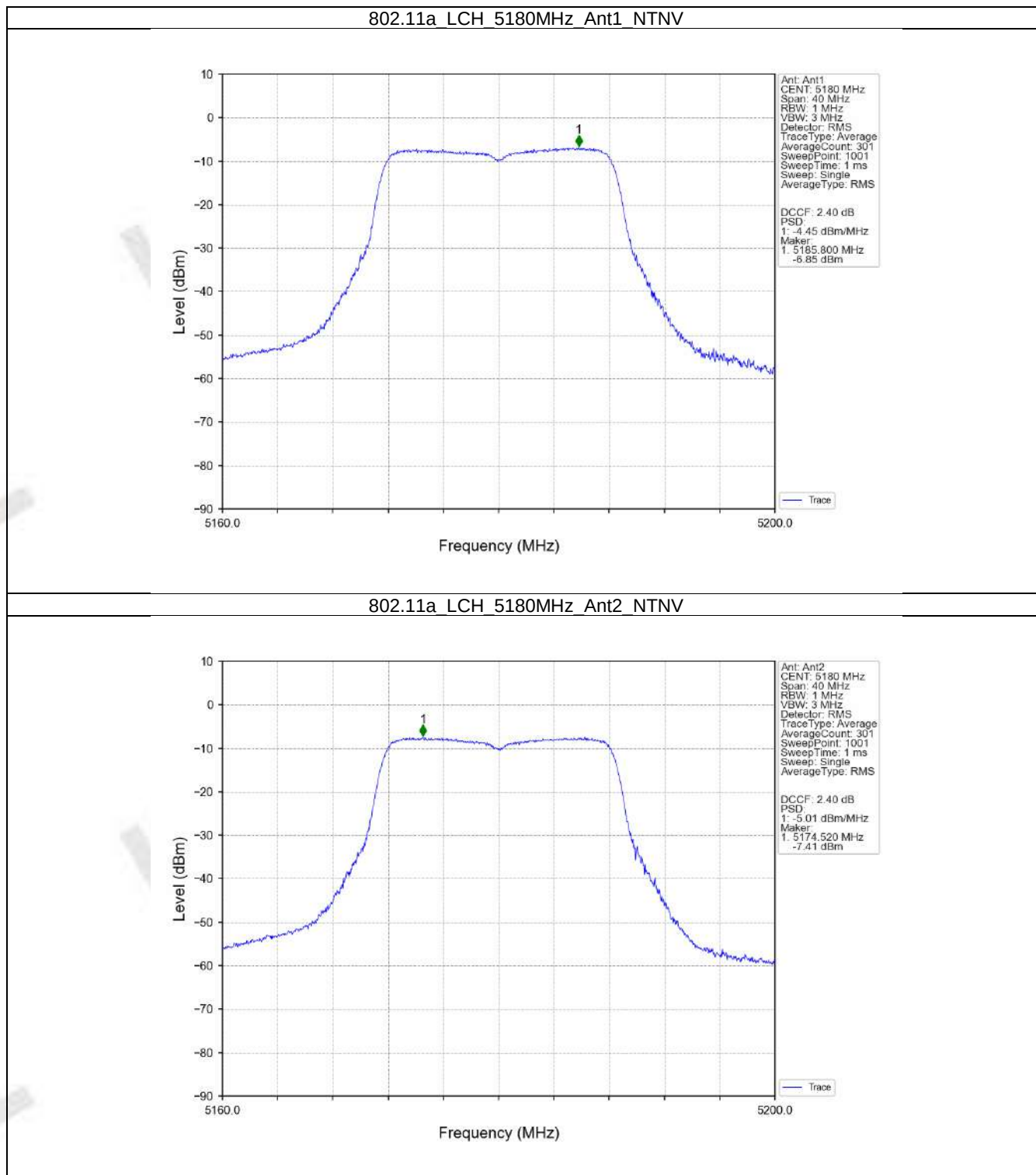
3.1 Test Result

3.1.1 PSD

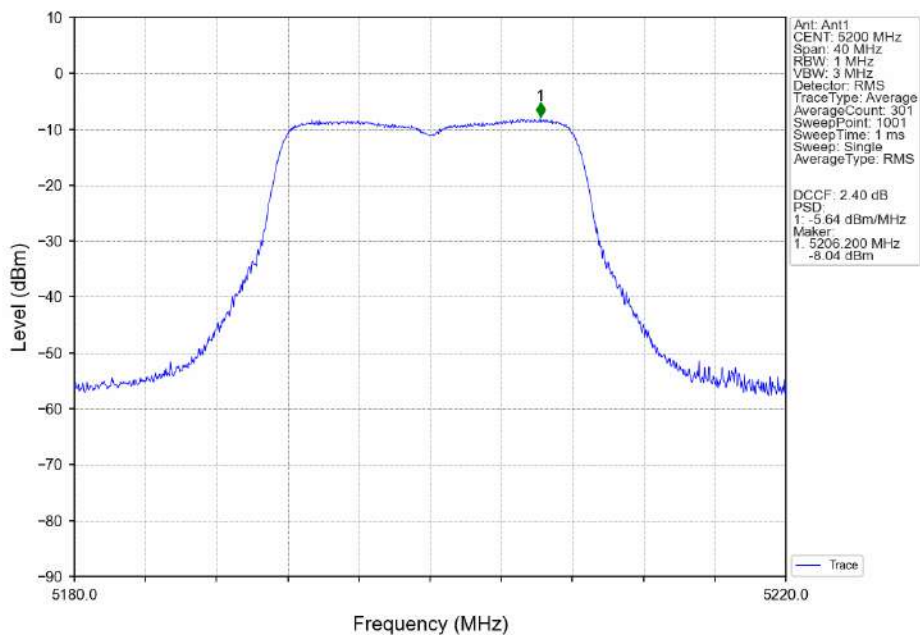
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)			Verdict
			ANT1	ANT2	Limit	
802.11a	SISO	5180	-4.45	-5.01	<=11	Pass
		5200	-5.64	-4.74	<=11	Pass
		5240	-5.94	-3.61	<=11	Pass
802.11n (HT20)	SISO	5180	-6.50	-5.19	<=11	Pass
		5200	-6.14	-5.03	<=11	Pass
		5240	-6.36	-4.08	<=11	Pass
802.11n (HT40)	SISO	5190	-8.44	-7.39	<=11	Pass
		5230	-8.40	-6.42	<=11	Pass
802.11ac (VHT20)	SISO	5180	-5.92	-5.54	<=11	Pass
		5200	-6.01	-5.34	<=11	Pass
		5240	-6.09	-4.26	<=11	Pass
802.11ac (VHT40)	SISO	5190	-9.64	-8.51	<=11	Pass
		5230	-9.41	-7.36	<=11	Pass
802.11ac (VHT80)	SISO	5210	-10.54	-8.91	<=11	Pass
Note1: Antenna Gain: Ant1: 1.26dBi; Ant2: 1.20dBi;						

3.2 Test Graph

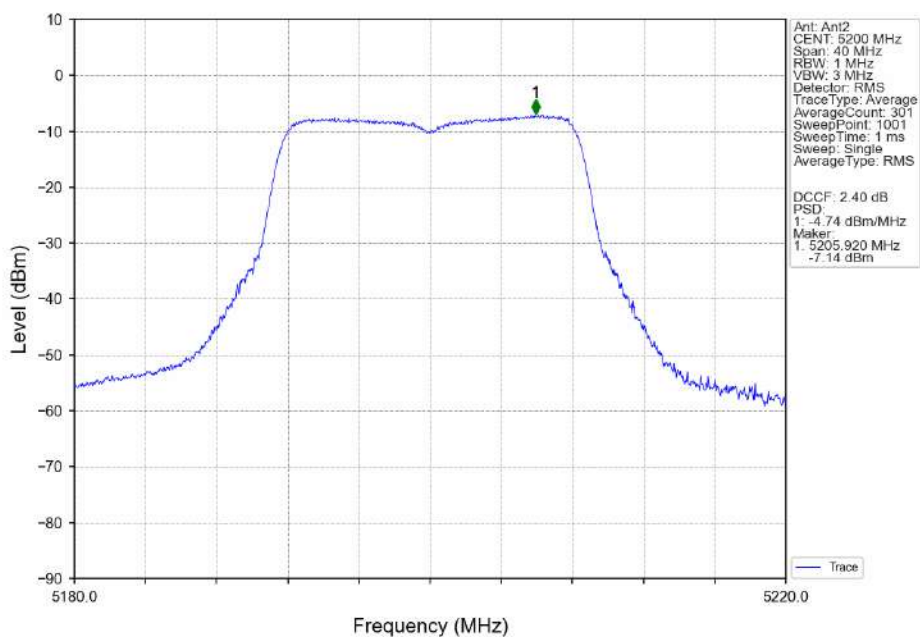
3.2.1 PSD



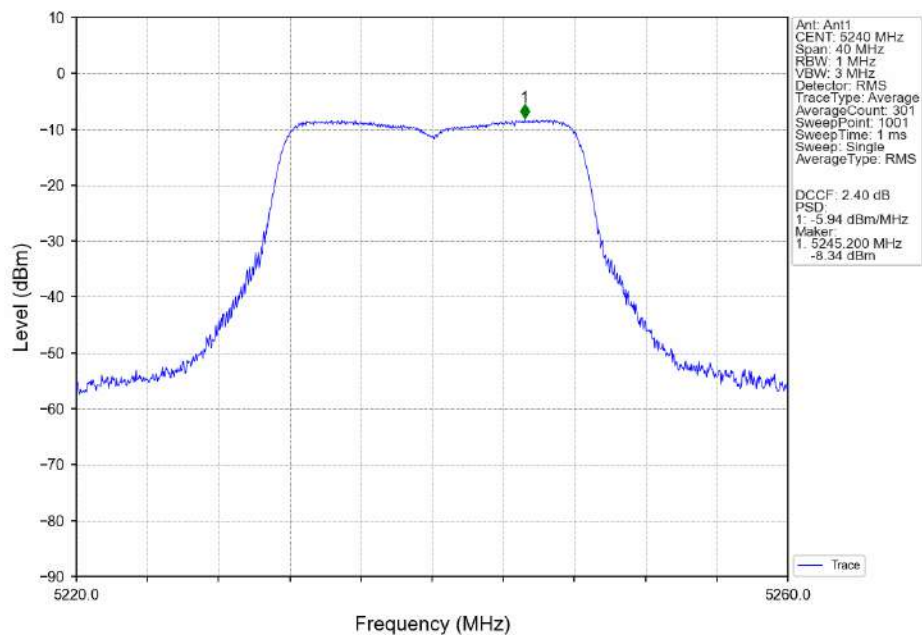
802.11a MCH 5200MHz Ant1 NTNV



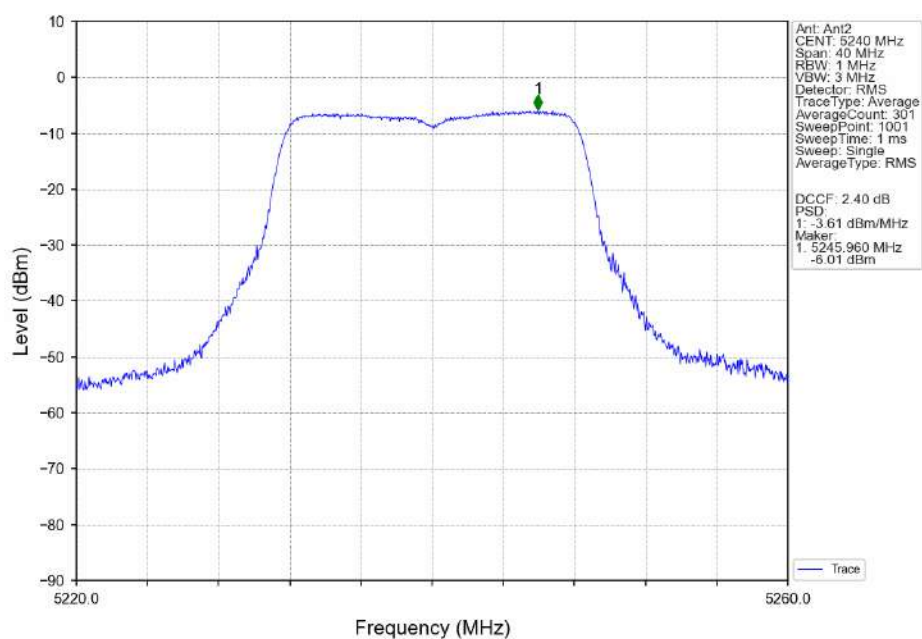
802.11a MCH 5200MHz Ant2 NTNV



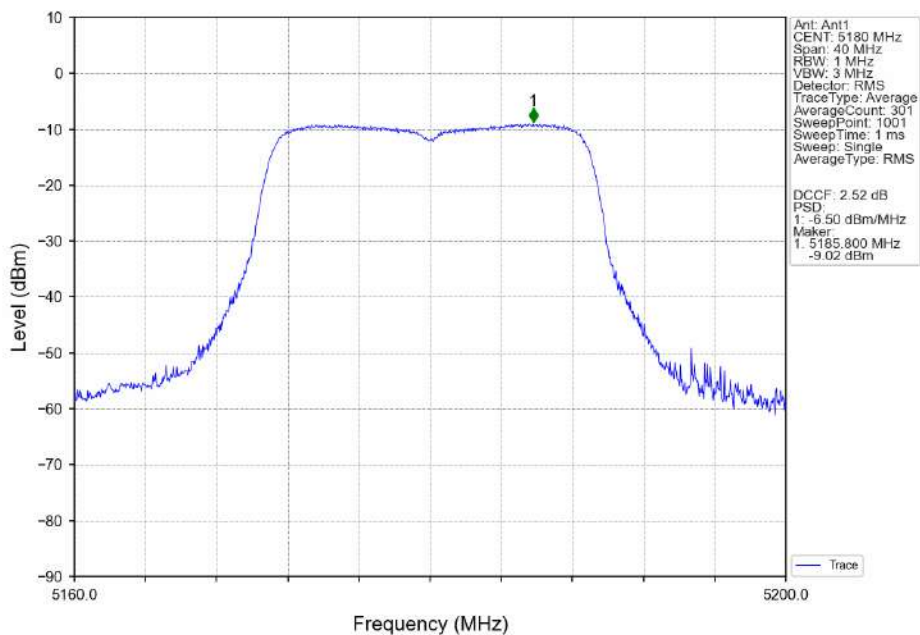
802.11a HCH 5240MHz Ant1 NTNV



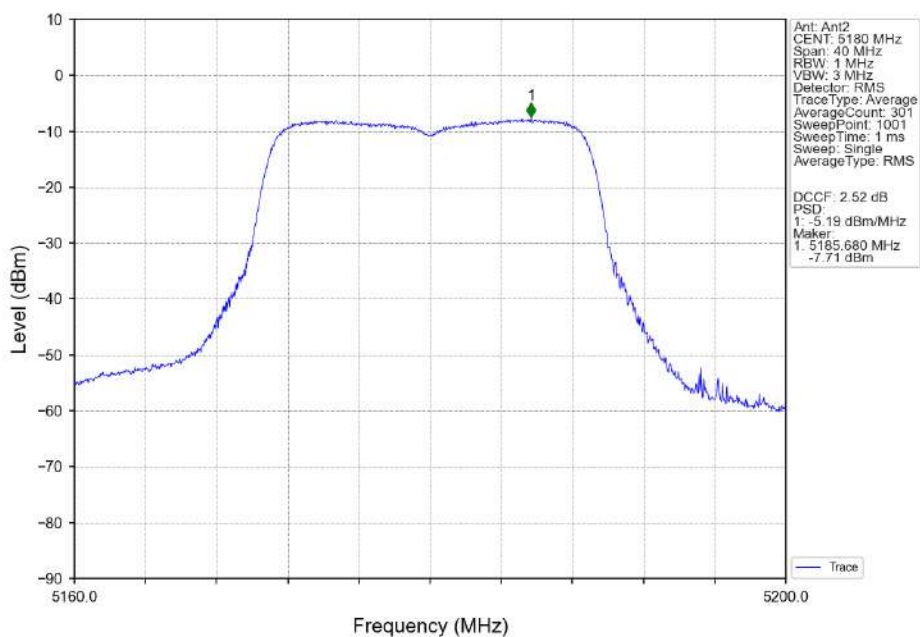
802.11a HCH 5240MHz Ant2 NTNV



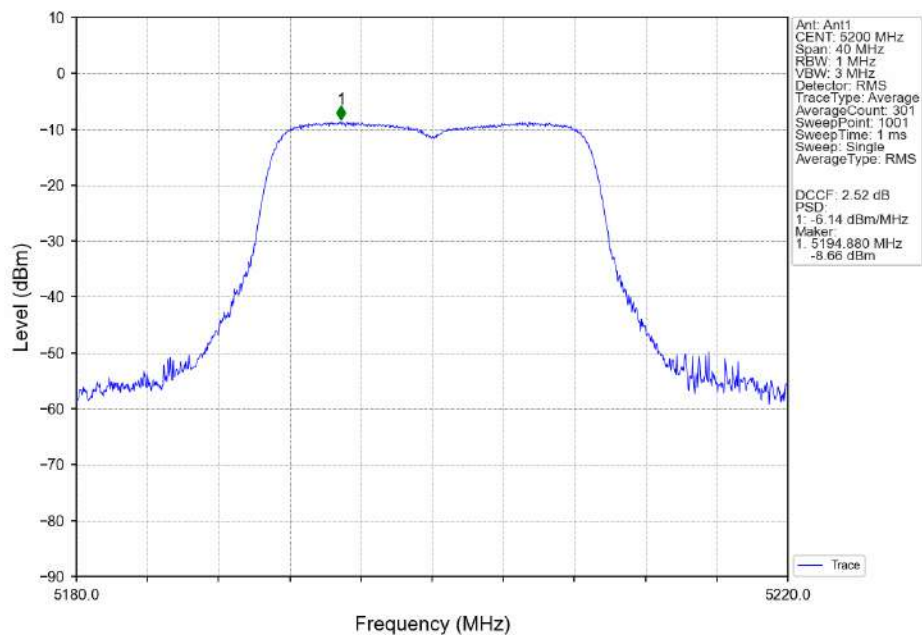
802.11n(HT20) LCH 5180MHz Ant1 NTN



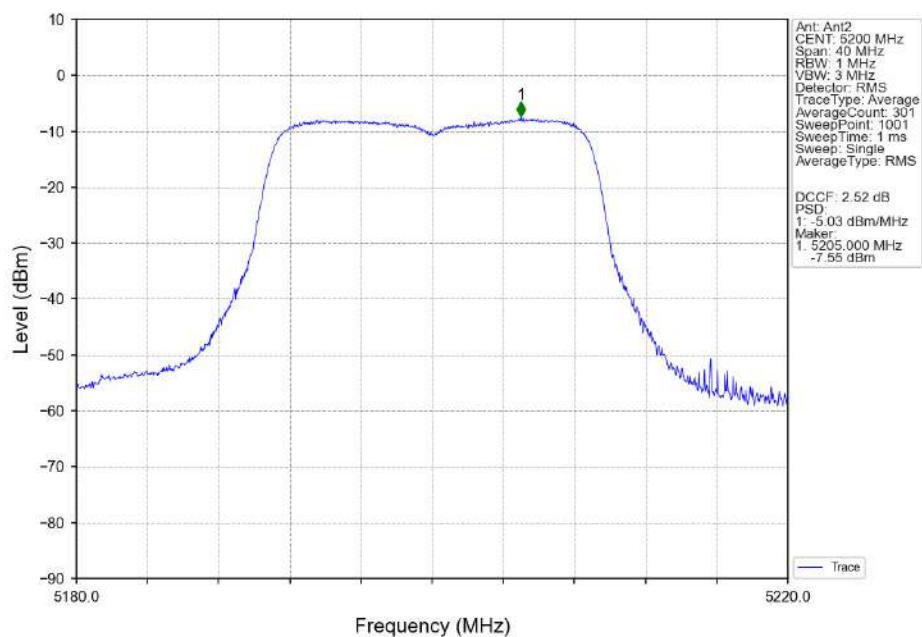
802.11n(HT20) LCH 5180MHz Ant2 NTN



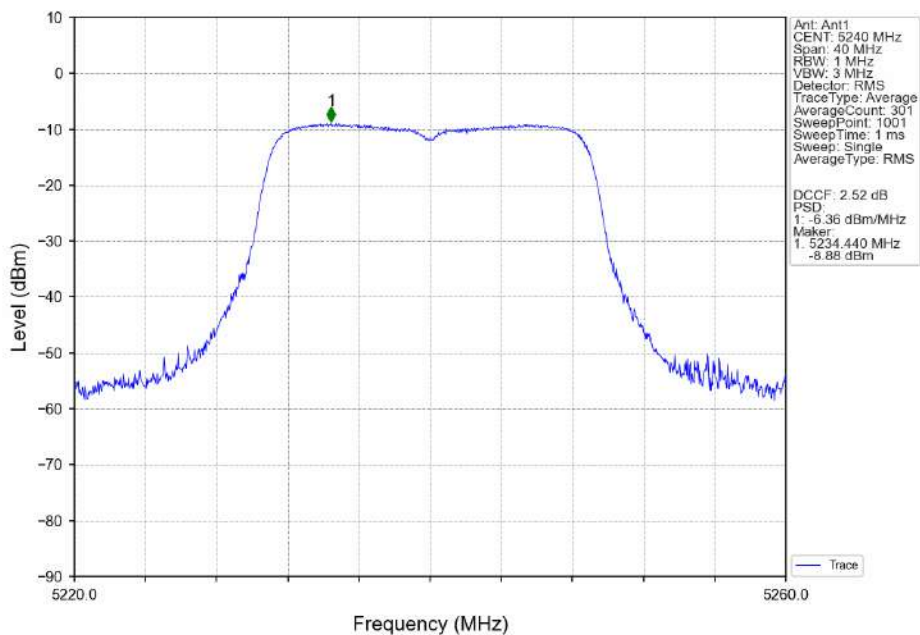
802.11n(HT20) MCH 5200MHz Ant1 NTN



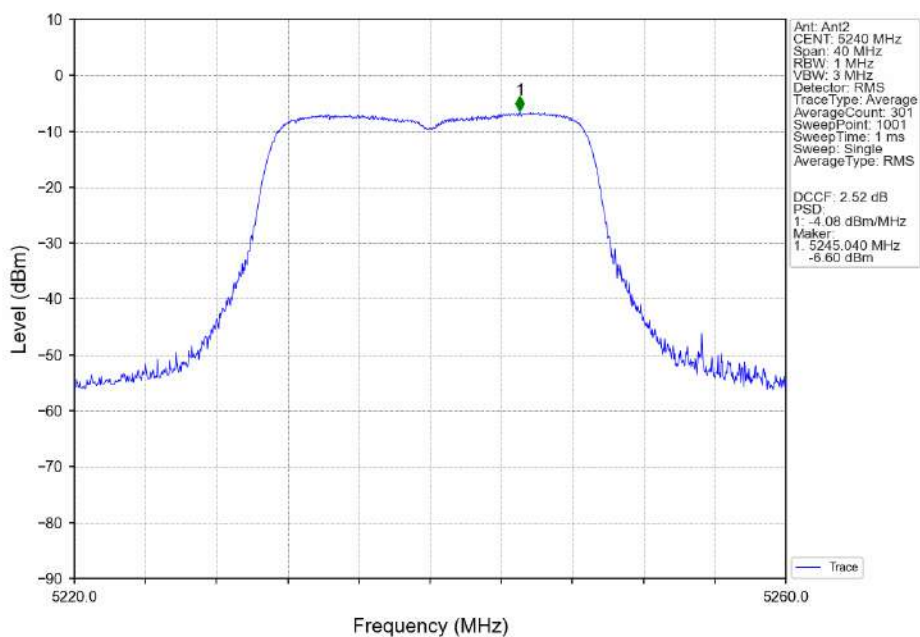
802.11n(HT20) MCH 5200MHz Ant2 NTN



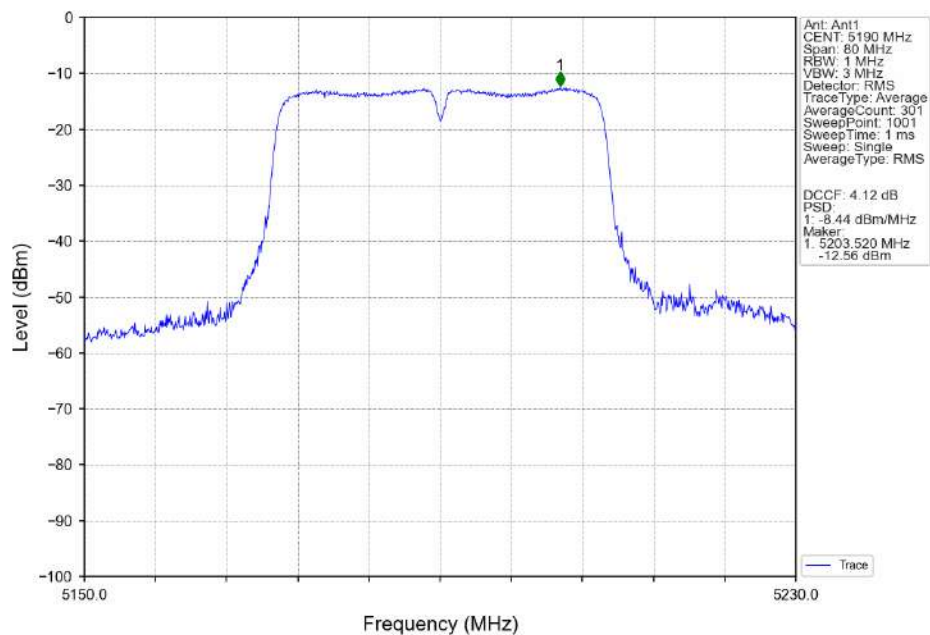
802.11n(HT20) HCH 5240MHz Ant1 NTN



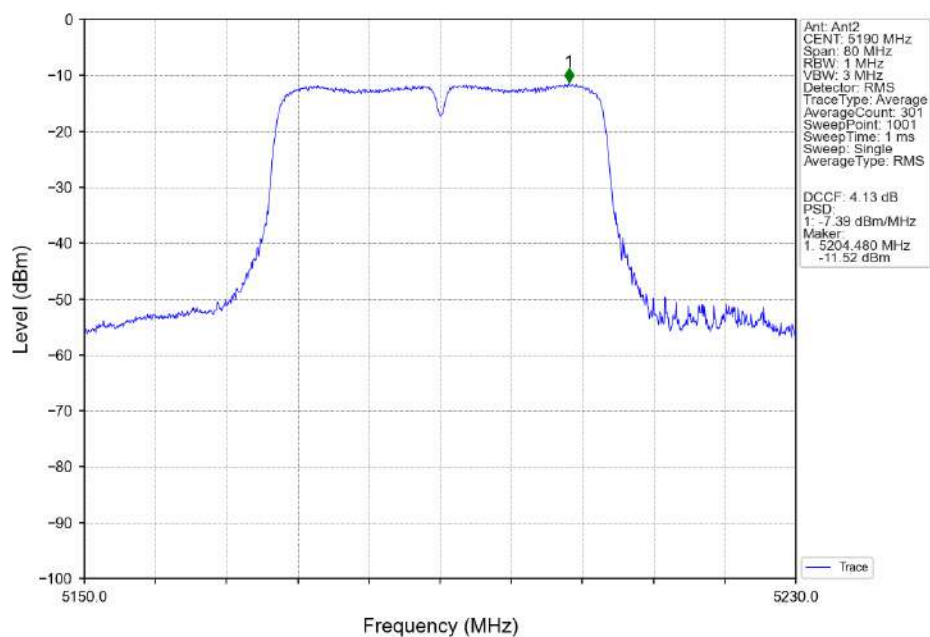
802.11n(HT20) HCH 5240MHz Ant2 NTN



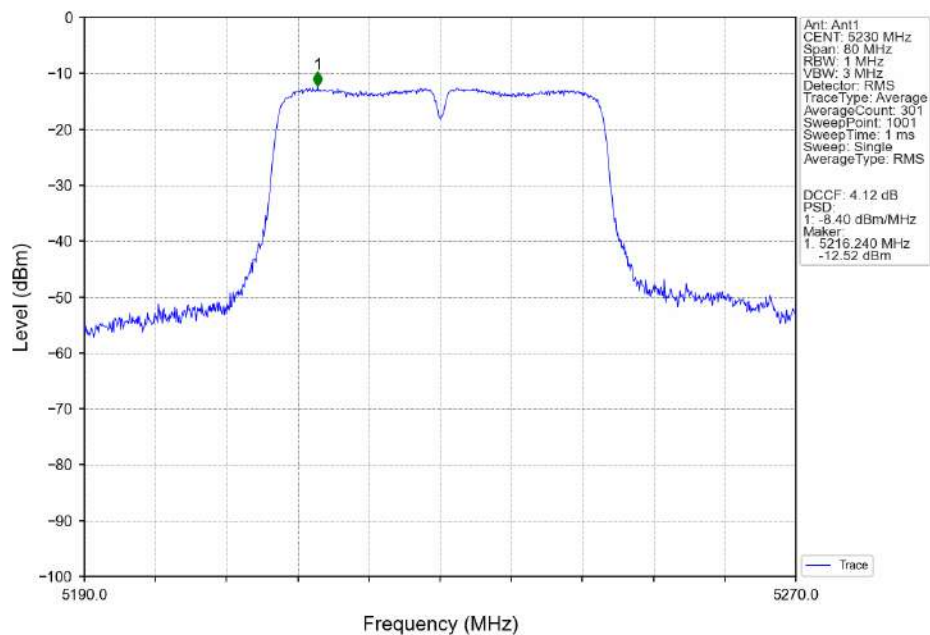
802.11n(HT40) LCH 5190MHz Ant1 NTN



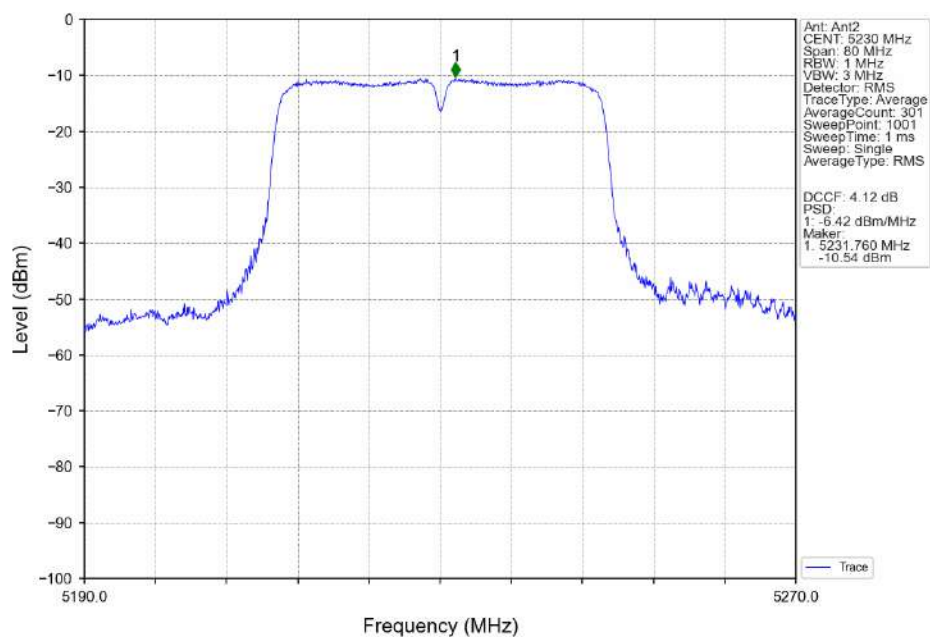
802.11n(HT40) LCH 5190MHz Ant2 NTN



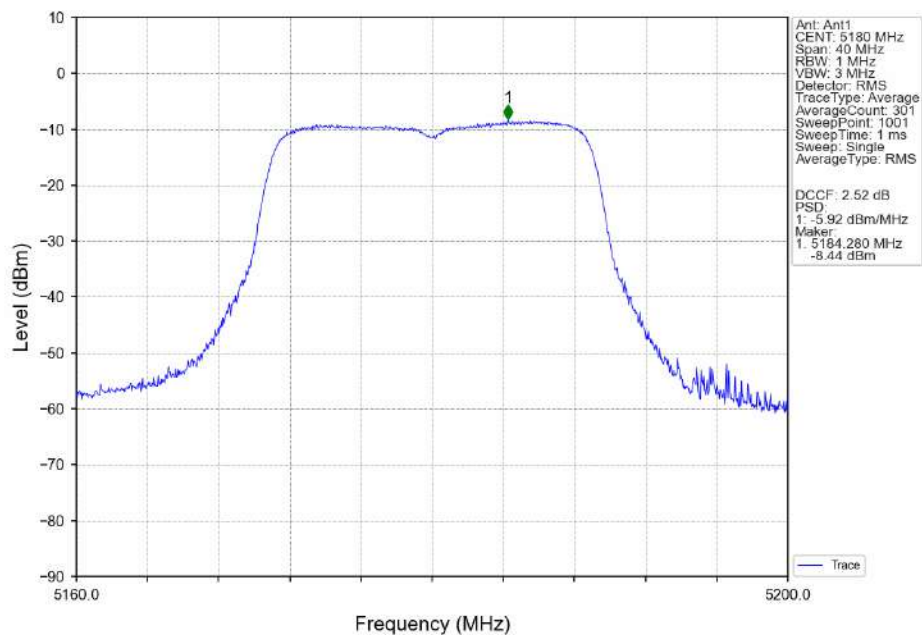
802.11n(HT40) HCH 5230MHz Ant1 NTN



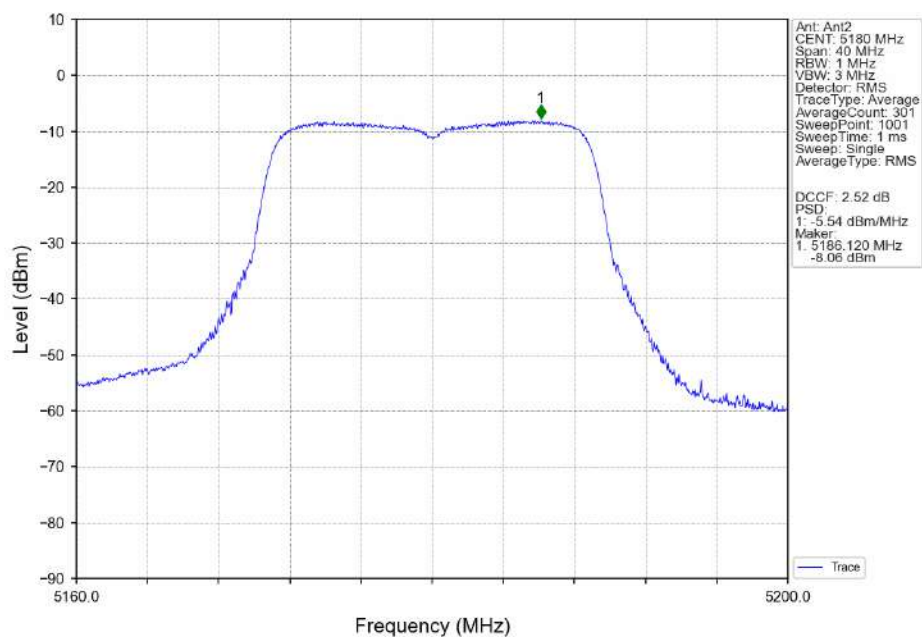
802.11n(HT40) HCH 5230MHz Ant2 NTN



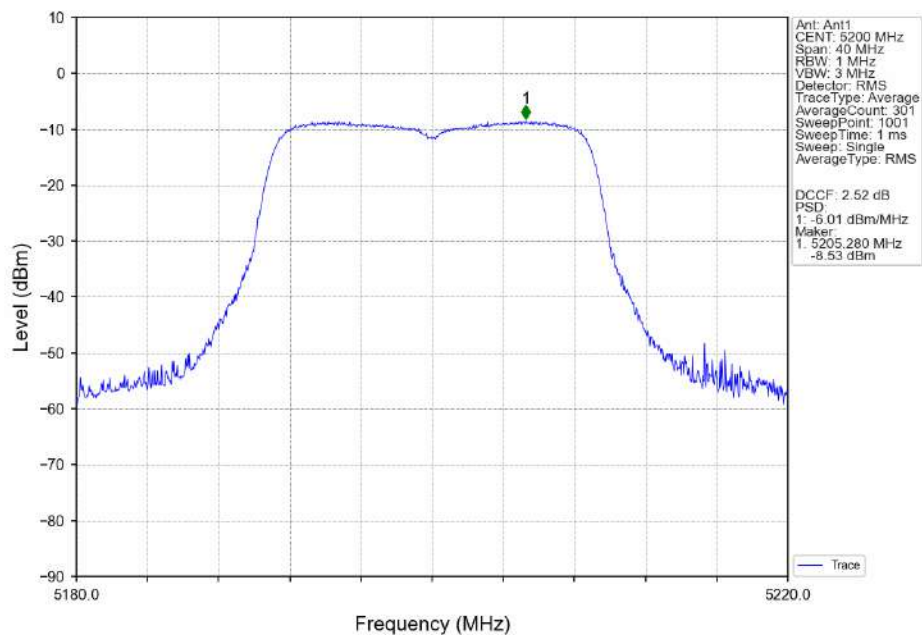
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



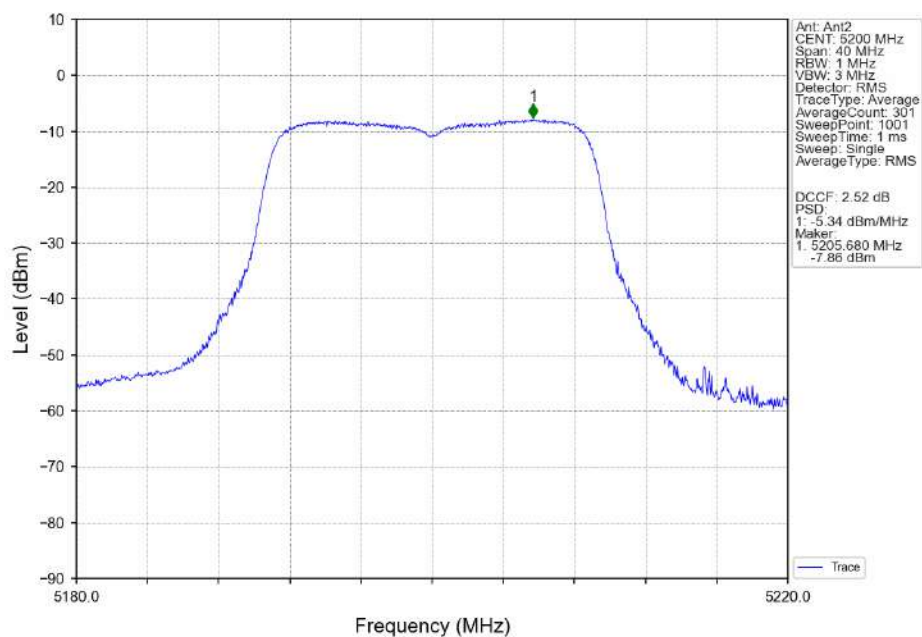
802.11ac(VHT20) LCH 5180MHz Ant2 NTN



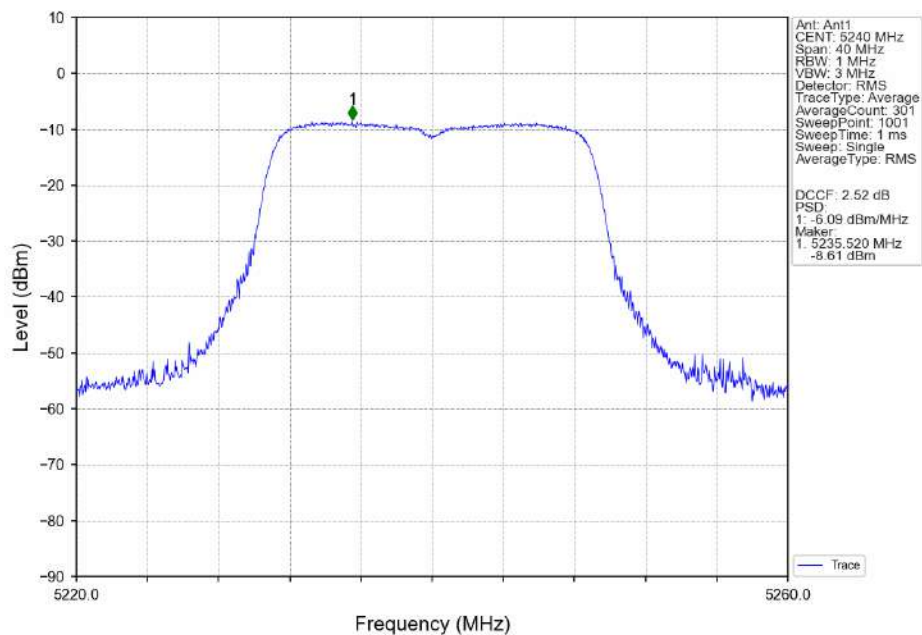
802.11ac(VHT20) MCH 5200MHz Ant1 NTV



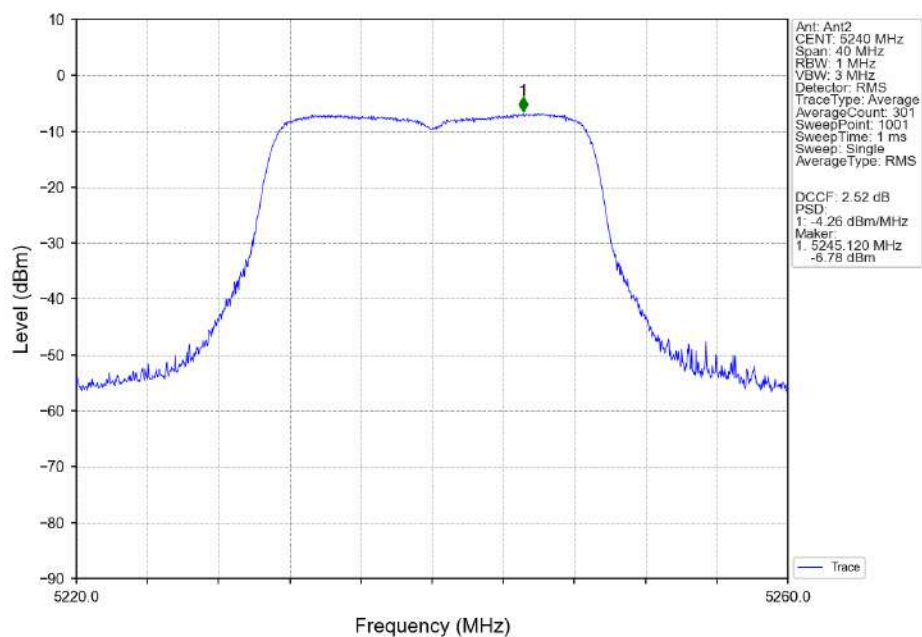
802.11ac(VHT20) MCH 5200MHz Ant2 NTV



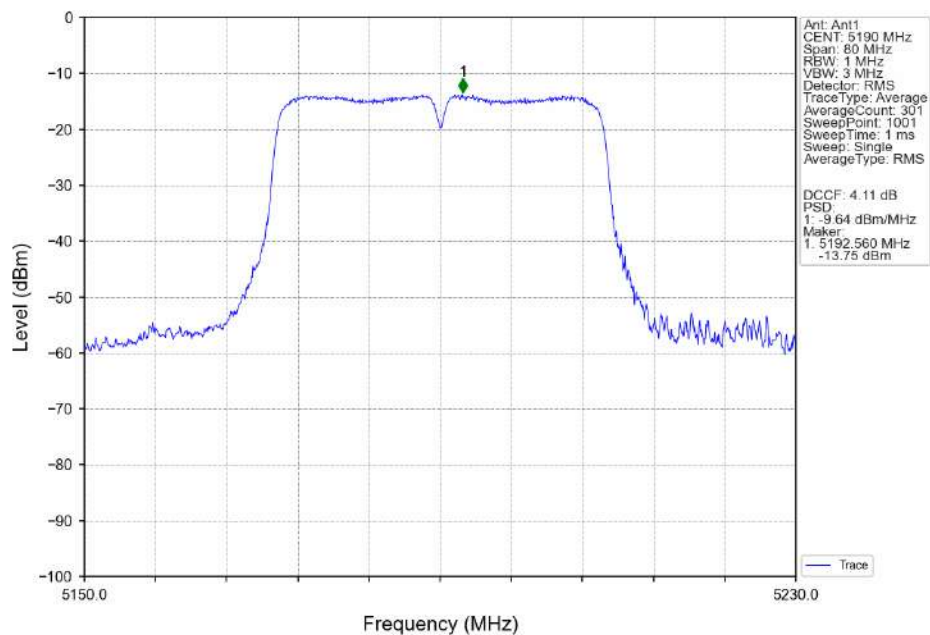
802.11ac(VHT20) HCH 5240MHz Ant1 NTV



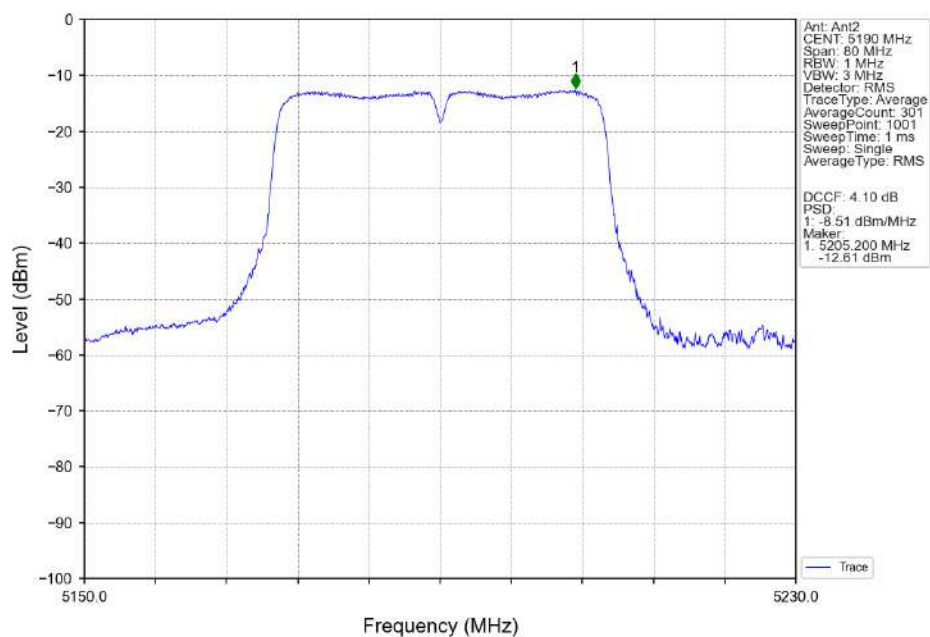
802.11ac(VHT20) HCH 5240MHz Ant2 NTV



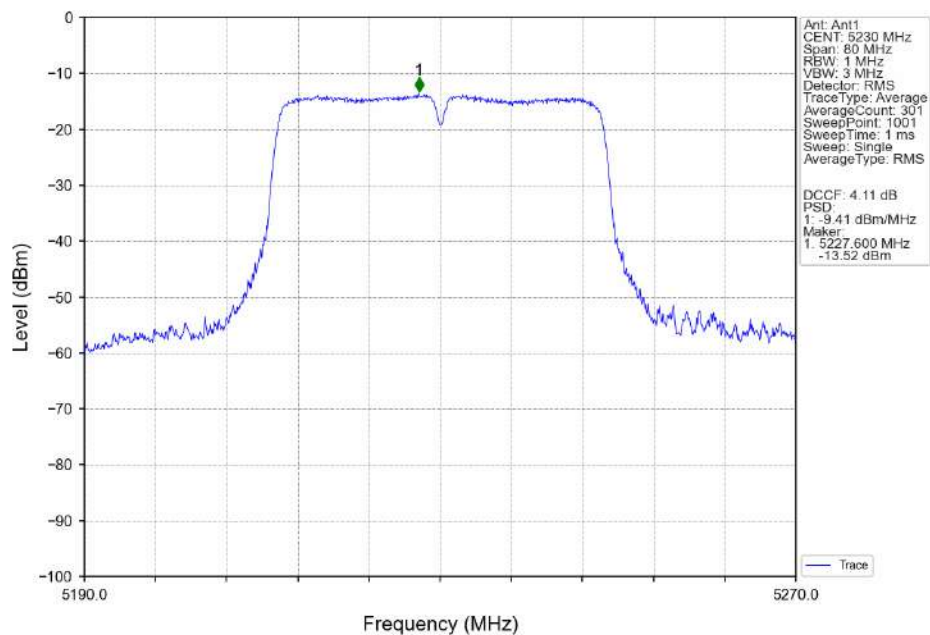
802.11ac(VHT40) LCH 5190MHz Ant1 NTN



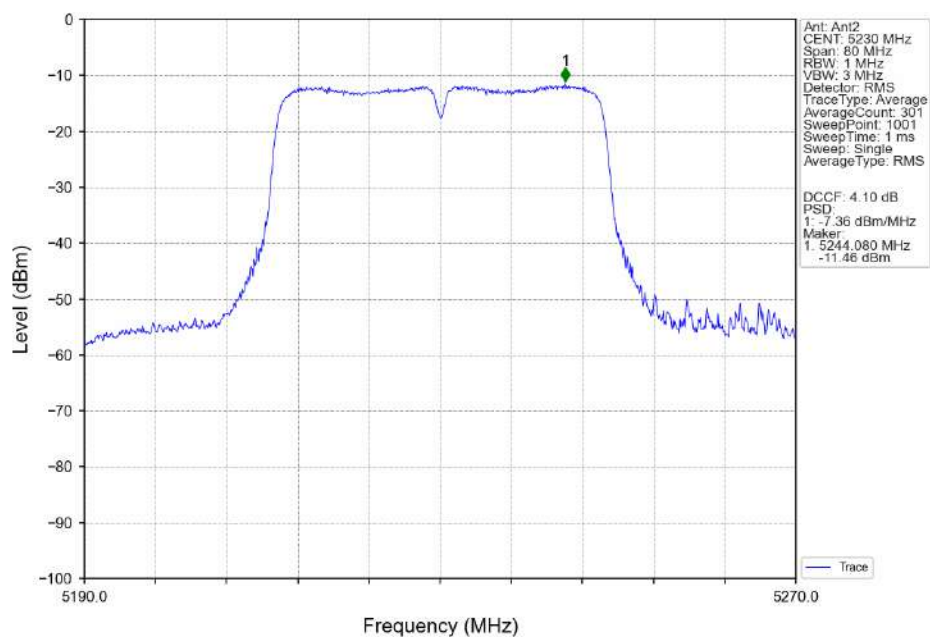
802.11ac(VHT40) LCH 5190MHz Ant2 NTN



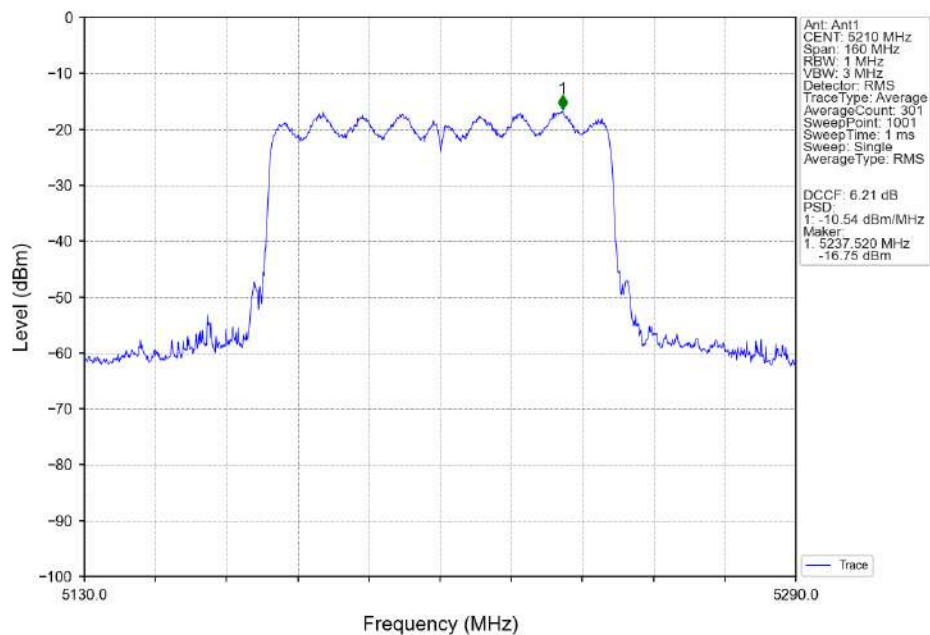
802.11ac(VHT40) HCH 5230MHz Ant1 NTV



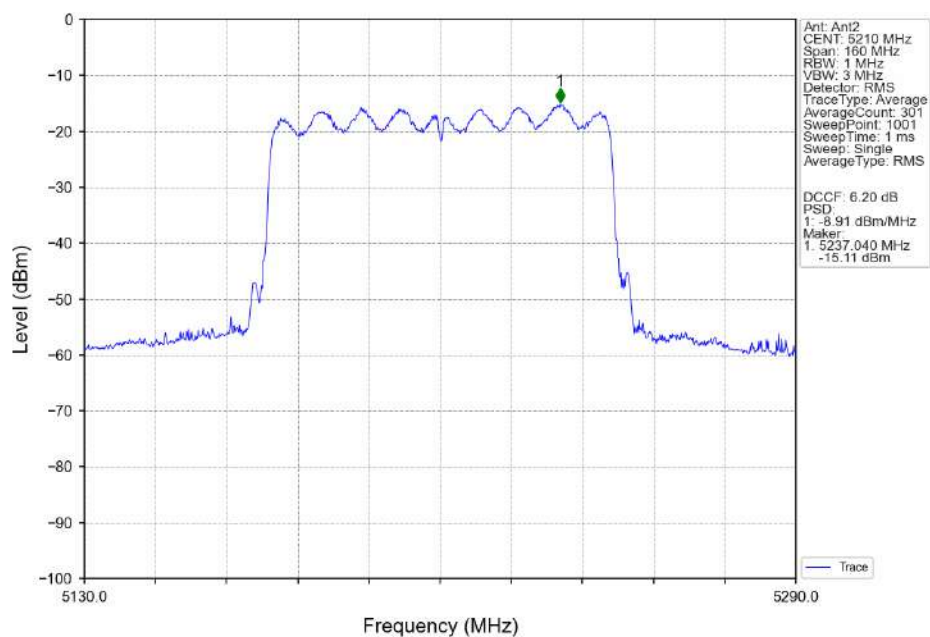
802.11ac(VHT40) HCH 5230MHz Ant2 NTV



802.11ac(VHT80) MCH 5210MHz Ant1 NTNV



802.11ac(VHT80) MCH 5210MHz Ant2 NTNV



4. Frequency Stability

4.1 Test Result

4.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5180	20	102	5179.991	5150 to 5250	Pass
				120	5179.990	5150 to 5250	Pass
				138	5179.990	5150 to 5250	Pass
			-30	120	5179.990	5150 to 5250	Pass
			-20	120	5179.990	5150 to 5250	Pass
			-10	120	5179.990	5150 to 5250	Pass
			0	120	5179.990	5150 to 5250	Pass
			10	120	5179.990	5150 to 5250	Pass
			30	120	5179.990	5150 to 5250	Pass
			40	120	5179.990	5150 to 5250	Pass
			50	120	5179.990	5150 to 5250	Pass
		5200	20	102	5199.990	5150 to 5250	Pass
				120	5199.990	5150 to 5250	Pass
				138	5199.990	5150 to 5250	Pass
			-30	120	5199.990	5150 to 5250	Pass
			-20	120	5199.990	5150 to 5250	Pass
			-10	120	5199.990	5150 to 5250	Pass
			0	120	5199.990	5150 to 5250	Pass
			10	120	5199.990	5150 to 5250	Pass
			30	120	5199.990	5150 to 5250	Pass
			40	120	5199.990	5150 to 5250	Pass
			50	120	5199.990	5150 to 5250	Pass
		5240	20	102	5239.990	5150 to 5250	Pass
				120	5239.990	5150 to 5250	Pass
				138	5239.990	5150 to 5250	Pass
			-30	120	5239.990	5150 to 5250	Pass
			-20	120	5239.990	5150 to 5250	Pass
			-10	120	5239.990	5150 to 5250	Pass
			0	120	5239.990	5150 to 5250	Pass
			10	120	5239.990	5150 to 5250	Pass
			30	120	5239.990	5150 to 5250	Pass
			40	120	5239.990	5150 to 5250	Pass
			50	120	5239.990	5150 to 5250	Pass
		5190	20	102	5189.990	5150 to 5250	Pass
				120	5189.990	5150 to 5250	Pass
				138	5189.990	5150 to 5250	Pass
			-30	120	5189.990	5150 to 5250	Pass
			-20	120	5189.990	5150 to 5250	Pass
			-10	120	5189.990	5150 to 5250	Pass
			0	120	5189.990	5150 to 5250	Pass
			10	120	5189.990	5150 to 5250	Pass
			30	120	5189.990	5150 to 5250	Pass
			40	120	5189.990	5150 to 5250	Pass
			50	120	5189.990	5150 to 5250	Pass
		5230	20	102	5229.990	5150 to 5250	Pass
				120	5229.990	5150 to 5250	Pass
				138	5229.990	5150 to 5250	Pass
			-30	120	5229.990	5150 to 5250	Pass
			-20	120	5229.990	5150 to 5250	Pass
			-10	120	5229.990	5150 to 5250	Pass

			0	120	5229.990	5150 to 5250	Pass
			10	120	5229.990	5150 to 5250	Pass
			30	120	5229.990	5150 to 5250	Pass
			40	120	5229.990	5150 to 5250	Pass
			50	120	5229.990	5150 to 5250	Pass
		5210	20	102	5209.990	5150 to 5250	Pass
				120	5209.990	5150 to 5250	Pass
				138	5209.990	5150 to 5250	Pass
			-30	120	5209.990	5150 to 5250	Pass
			-20	120	5209.990	5150 to 5250	Pass
			-10	120	5209.990	5150 to 5250	Pass
			0	120	5209.990	5150 to 5250	Pass
			10	120	5209.990	5150 to 5250	Pass
			30	120	5209.990	5150 to 5250	Pass
			40	120	5209.990	5150 to 5250	Pass
			50	120	5209.990	5150 to 5250	Pass

4.1.2 Ant2

Ant2							
Mode	Tx Type	Frequency (MHz)	Temperature (°C)	Voltage (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
Carrier Wave	SISO	5180	20	102	5180.004	5150 to 5250	Pass
				120	5180.004	5150 to 5250	Pass
				138	5180.004	5150 to 5250	Pass
			-30	120	5180.004	5150 to 5250	Pass
			-20	120	5180.004	5150 to 5250	Pass
			-10	120	5180.004	5150 to 5250	Pass
			0	120	5180.004	5150 to 5250	Pass
			10	120	5180.004	5150 to 5250	Pass
			30	120	5180.004	5150 to 5250	Pass
			40	120	5180.004	5150 to 5250	Pass
			50	120	5180.004	5150 to 5250	Pass
		5200	20	102	5200.004	5150 to 5250	Pass
				120	5200.004	5150 to 5250	Pass
				138	5200.004	5150 to 5250	Pass
			-30	120	5200.004	5150 to 5250	Pass
			-20	120	5200.004	5150 to 5250	Pass
			-10	120	5200.004	5150 to 5250	Pass
			0	120	5200.004	5150 to 5250	Pass
			10	120	5200.004	5150 to 5250	Pass
			30	120	5200.004	5150 to 5250	Pass
			40	120	5200.004	5150 to 5250	Pass
			50	120	5200.004	5150 to 5250	Pass
		5240	20	102	5240.004	5150 to 5250	Pass
				120	5240.004	5150 to 5250	Pass
				138	5240.004	5150 to 5250	Pass
			-30	120	5240.004	5150 to 5250	Pass
			-20	120	5240.004	5150 to 5250	Pass
			-10	120	5240.004	5150 to 5250	Pass
			0	120	5240.004	5150 to 5250	Pass
			10	120	5240.004	5150 to 5250	Pass
			30	120	5240.004	5150 to 5250	Pass
			40	120	5240.004	5150 to 5250	Pass
			50	120	5240.004	5150 to 5250	Pass
		5190	20	102	5190.004	5150 to 5250	Pass
				120	5190.004	5150 to 5250	Pass
				138	5190.004	5150 to 5250	Pass

			-30	120	5190.004	5150 to 5250	Pass
			-20	120	5190.004	5150 to 5250	Pass
			-10	120	5190.004	5150 to 5250	Pass
			0	120	5190.004	5150 to 5250	Pass
			10	120	5190.004	5150 to 5250	Pass
			30	120	5190.004	5150 to 5250	Pass
			40	120	5190.004	5150 to 5250	Pass
			50	120	5190.004	5150 to 5250	Pass
		5230	20	102	5230.004	5150 to 5250	Pass
				120	5230.004	5150 to 5250	Pass
				138	5230.004	5150 to 5250	Pass
			-30	120	5230.004	5150 to 5250	Pass
			-20	120	5230.004	5150 to 5250	Pass
			-10	120	5230.004	5150 to 5250	Pass
			0	120	5230.004	5150 to 5250	Pass
			10	120	5230.004	5150 to 5250	Pass
			30	120	5230.004	5150 to 5250	Pass
			40	120	5230.004	5150 to 5250	Pass
			50	120	5230.004	5150 to 5250	Pass
		5210	20	102	5210.004	5150 to 5250	Pass
				120	5210.004	5150 to 5250	Pass
				138	5210.004	5150 to 5250	Pass
			-30	120	5210.004	5150 to 5250	Pass
			-20	120	5210.004	5150 to 5250	Pass
			-10	120	5210.004	5150 to 5250	Pass
			0	120	5210.004	5150 to 5250	Pass
			10	120	5210.004	5150 to 5250	Pass
			30	120	5210.004	5150 to 5250	Pass
			40	120	5210.004	5150 to 5250	Pass
			50	120	5210.004	5150 to 5250	Pass