

Appendix RF test data for 5G WIFI

1. Duty Cycle

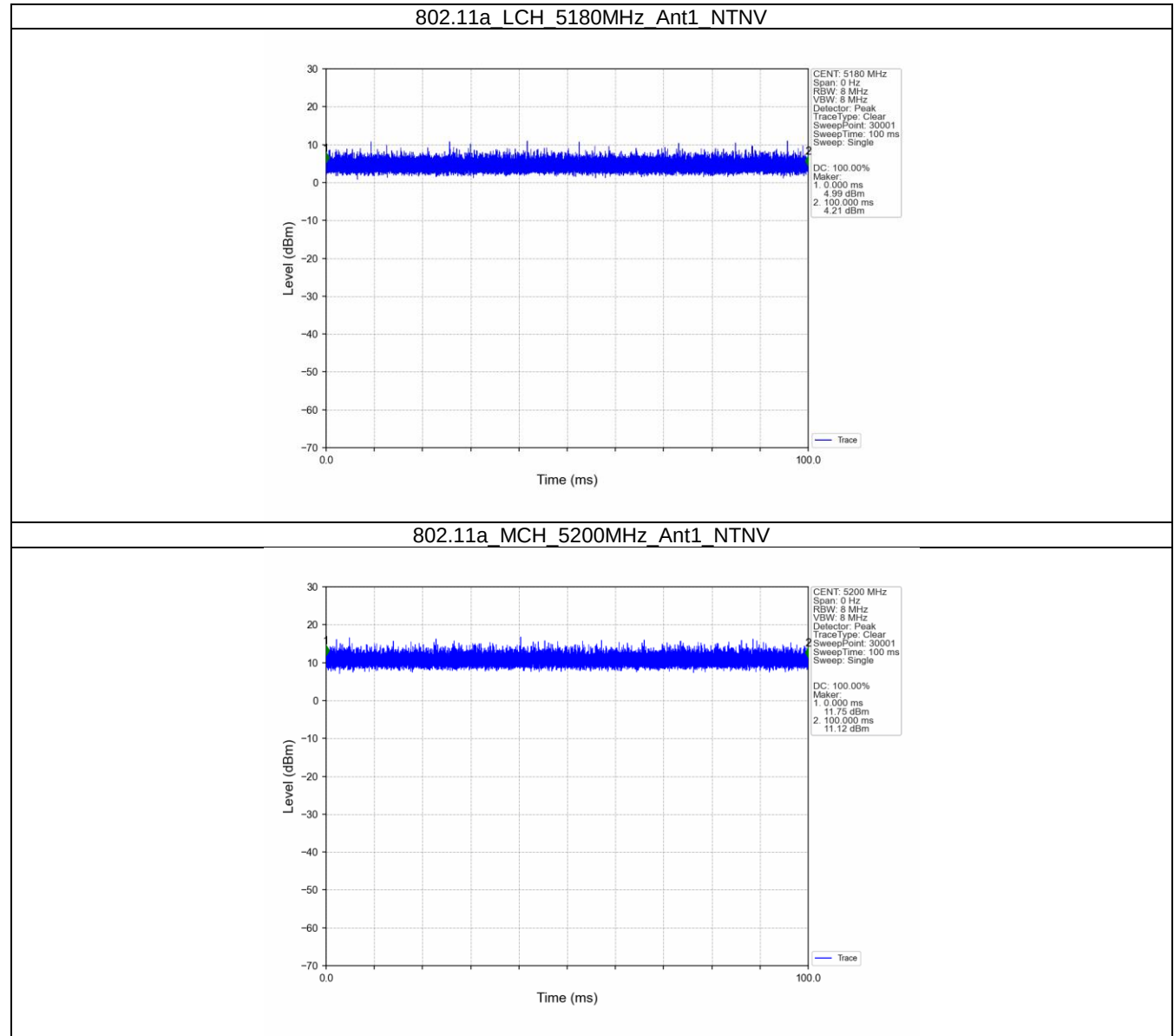
1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	Tx Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
		5745	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00
802.11n (HT20)	SISO	5180	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
		5745	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00
802.11n (HT40)	SISO	5190	100.000	100.000	100.00	0.00	0.00
		5230	100.000	100.000	100.00	0.00	0.00
		5755	100.000	100.000	100.00	0.00	0.00
		5795	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT20)	SISO	5180	100.000	100.000	100.00	0.00	0.00
		5200	100.000	100.000	100.00	0.00	0.00
		5240	100.000	100.000	100.00	0.00	0.00
		5745	100.000	100.000	100.00	0.00	0.00
		5785	100.000	100.000	100.00	0.00	0.00
		5825	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT40)	SISO	5190	100.000	100.000	100.00	0.00	0.00
		5230	100.000	100.000	100.00	0.00	0.00
		5755	100.000	100.000	100.00	0.00	0.00
		5795	100.000	100.000	100.00	0.00	0.00
802.11ac (VHT80)	SISO	5210	100.000	100.000	100.00	0.00	0.00
		5775	100.000	100.000	100.00	0.00	0.00

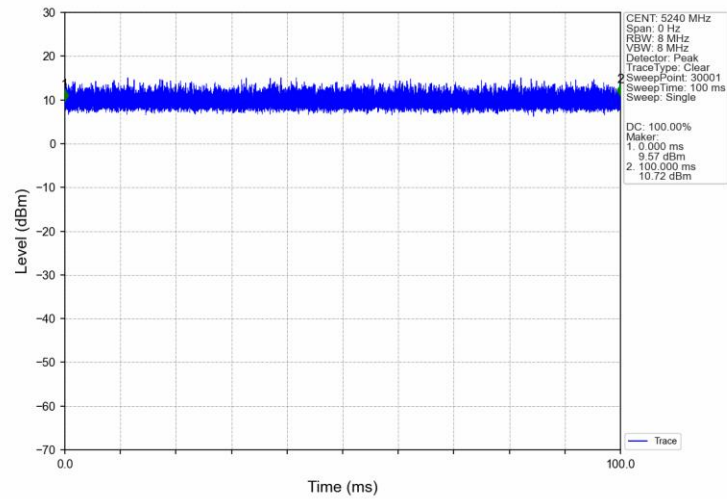
1.2 Test Graph

1.2.1 Ant1

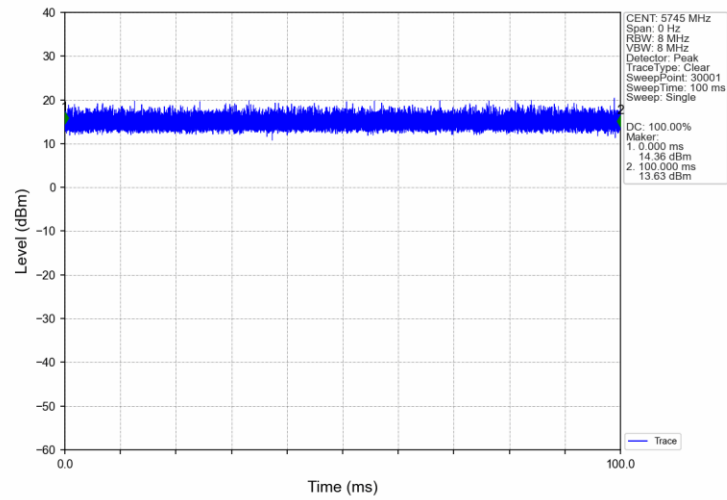




802.11a_HCH_5240MHz_Ant1_NTNV

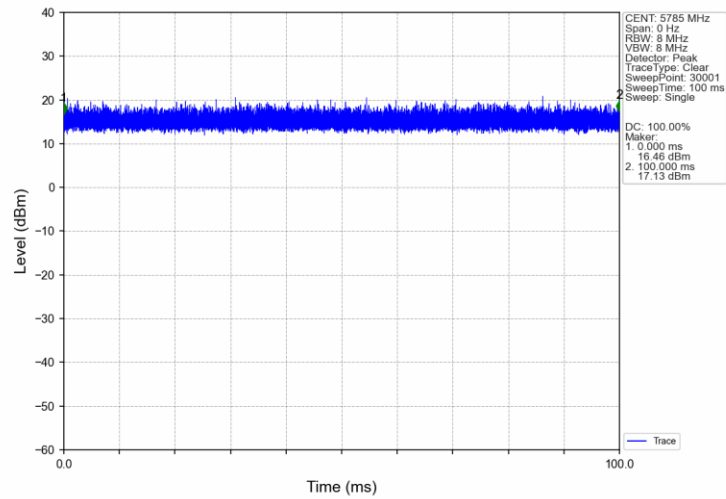


802.11a_LCH_5745MHz_Ant1_NTNV

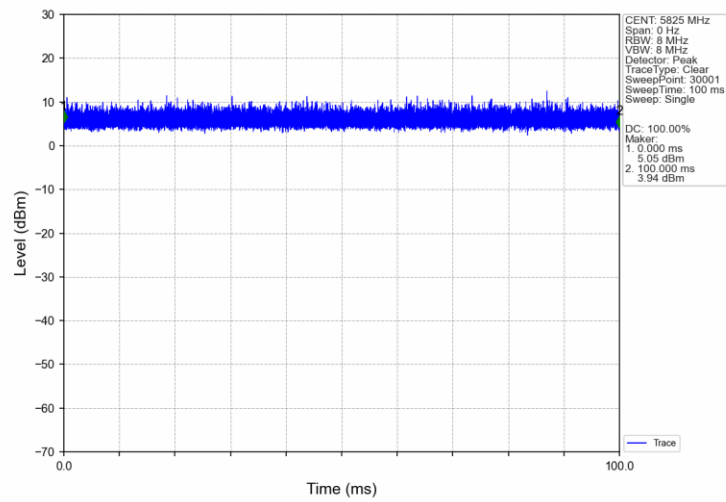




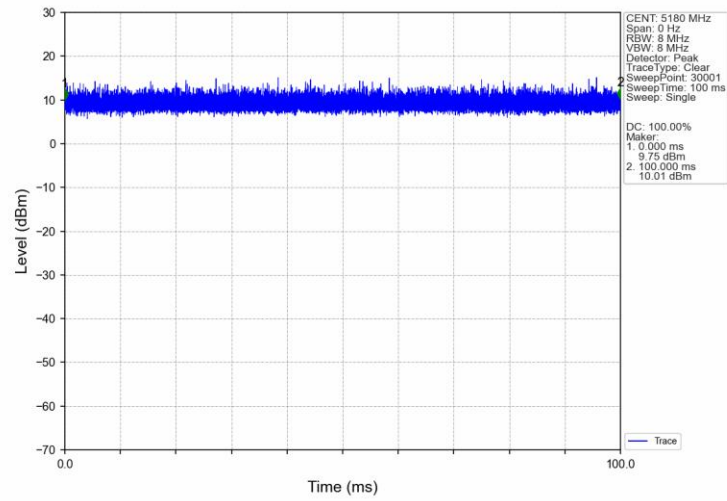
802.11a_MCH_5785MHz_Ant1_NTNV



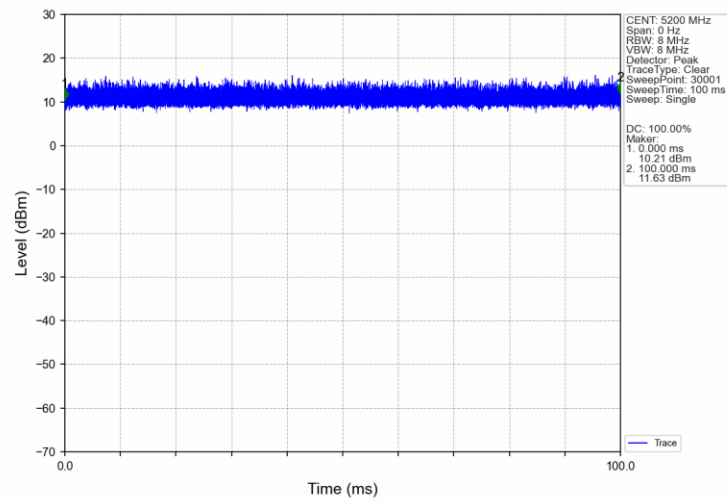
802.11a_HCH_5825MHz_Ant1_NTNV



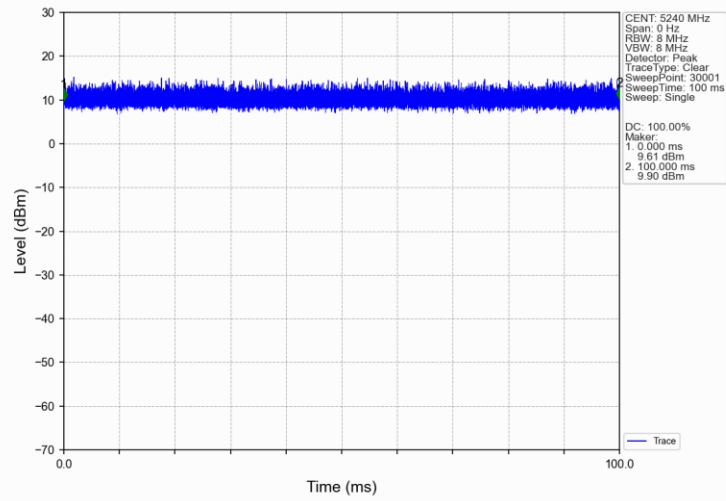
802.11n(HT20) LCH 5180MHz Ant1 NTN



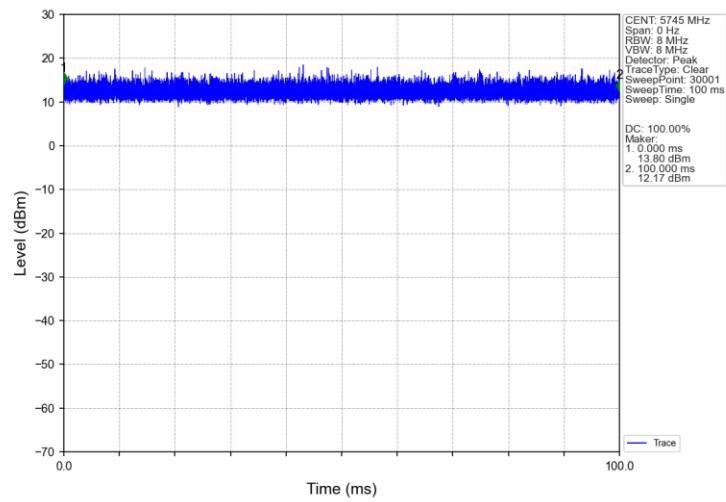
802.11n(HT20) MCH 5200MHz Ant1 NTN



802.11n(HT20) HCH 5240MHz Ant1 NTN

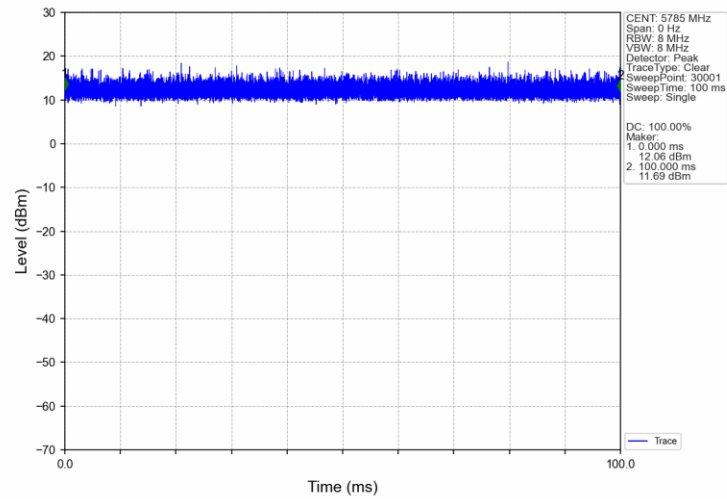


802.11n(HT20) LCH 5745MHz Ant1 NTN

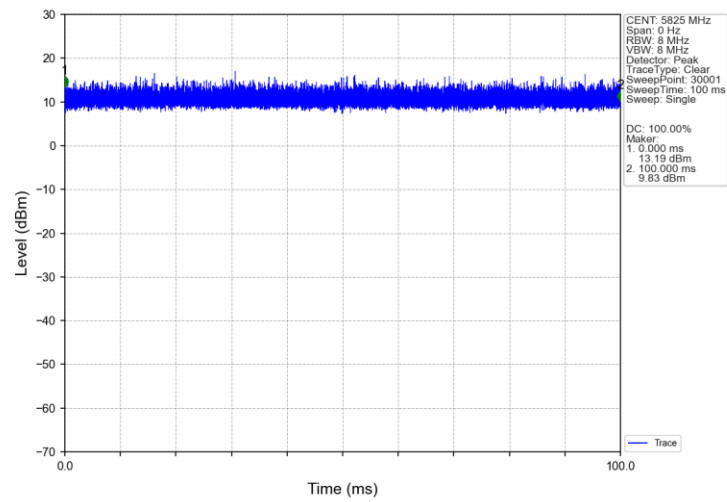




802.11n(HT20) MCH 5785MHz Ant1 NTN

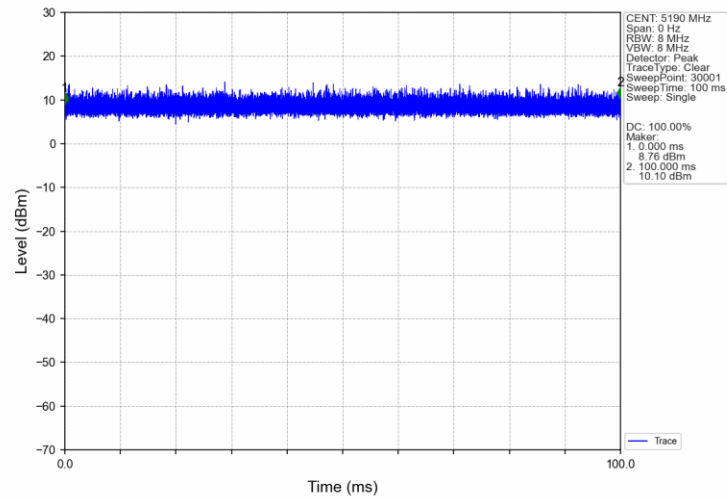


802.11n(HT20) HCH 5825MHz Ant1 NTN

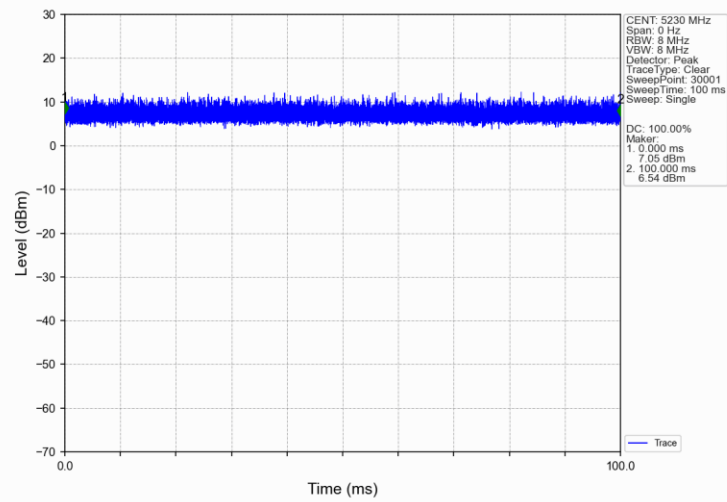




802.11n(HT40) LCH 5190MHz Ant1 NTN

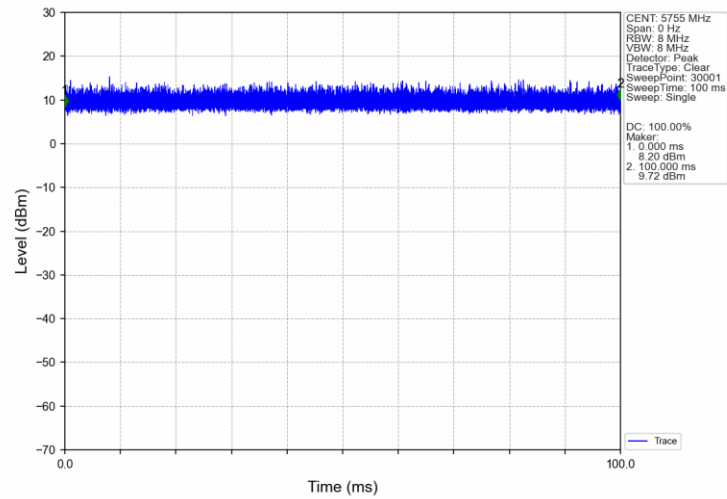


802.11n(HT40) HCH 5230MHz Ant1 NTN

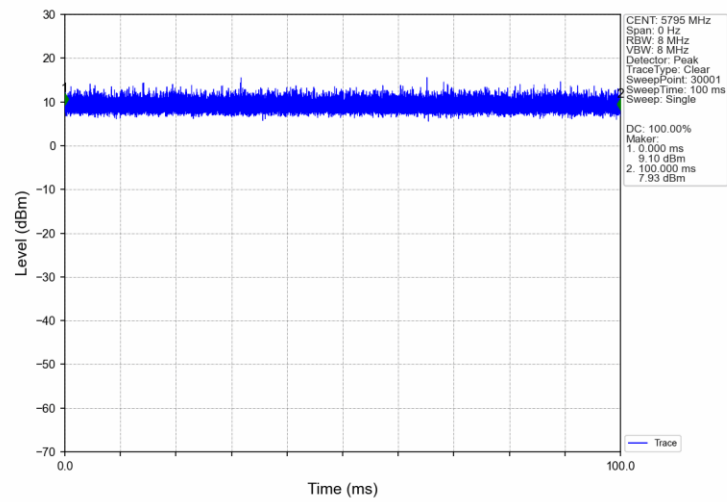




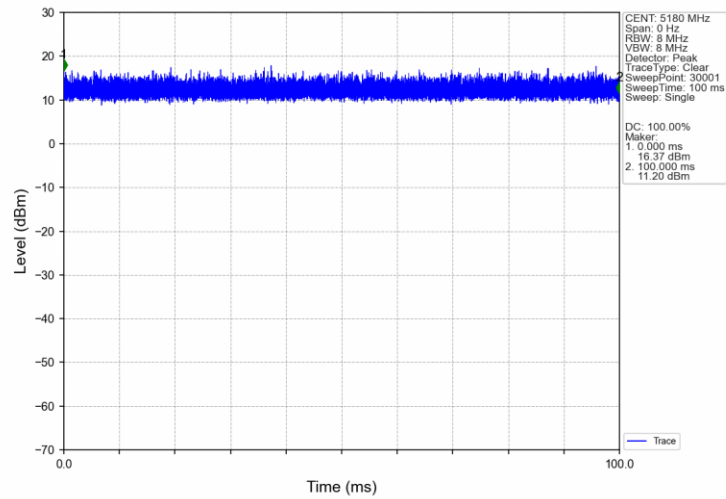
802.11n(HT40) LCH 5755MHz Ant1 NTN



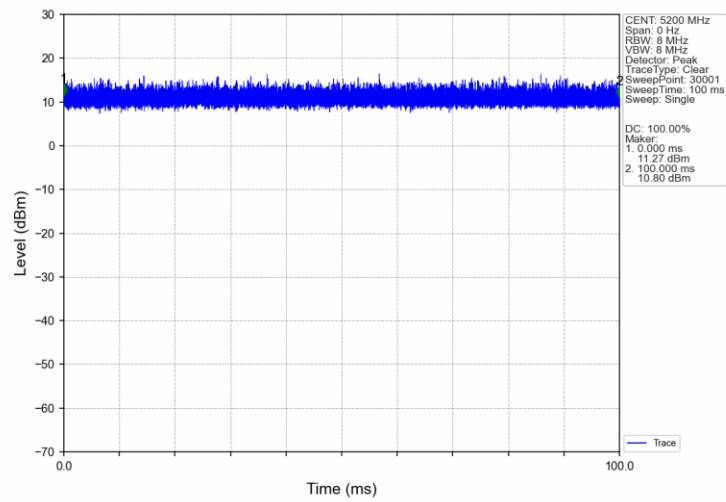
802.11n(HT40) HCH 5795MHz Ant1 NTN



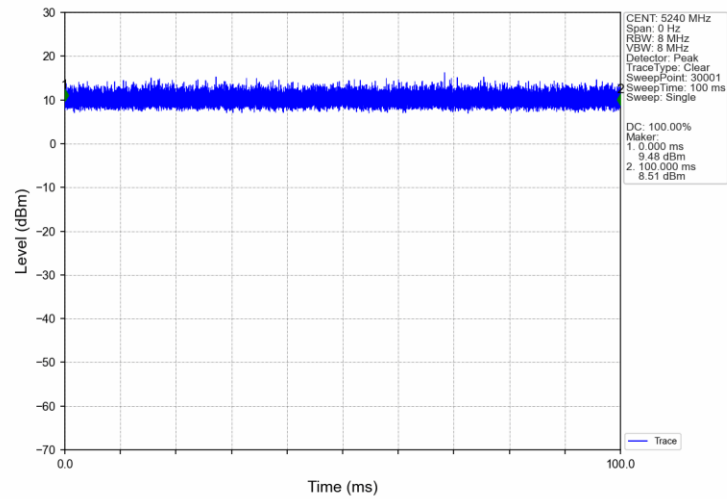
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



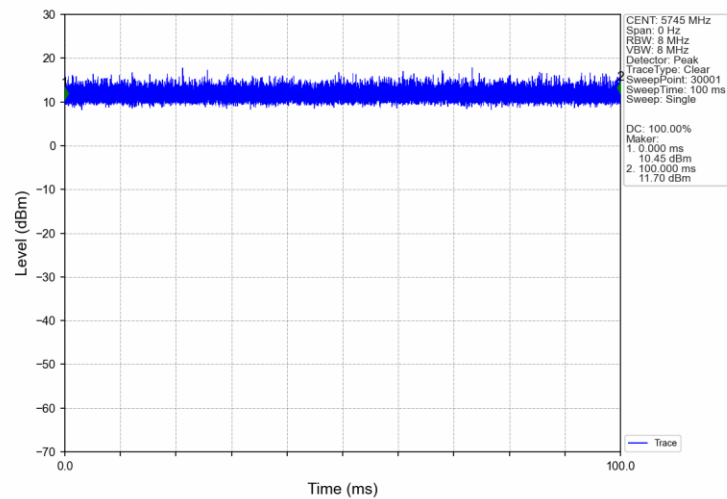
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



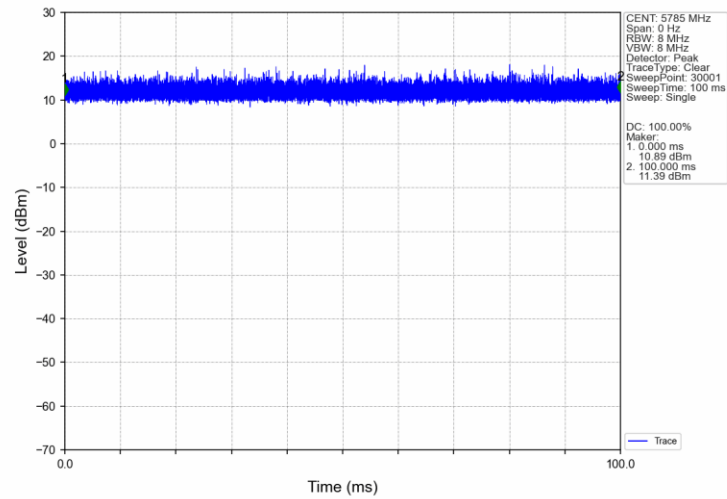
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



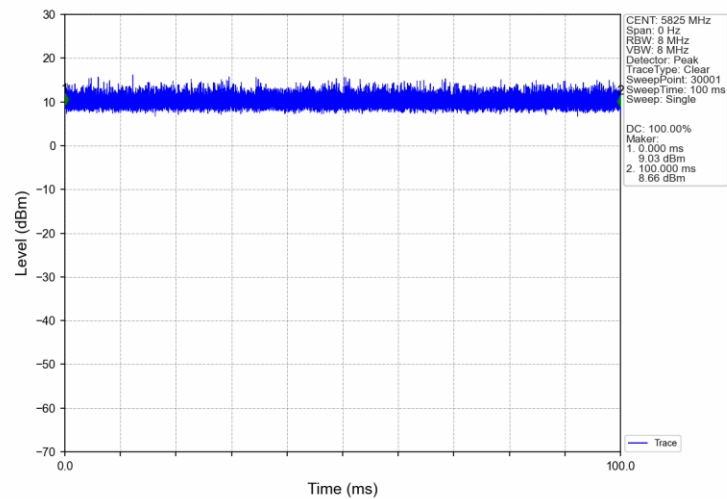
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



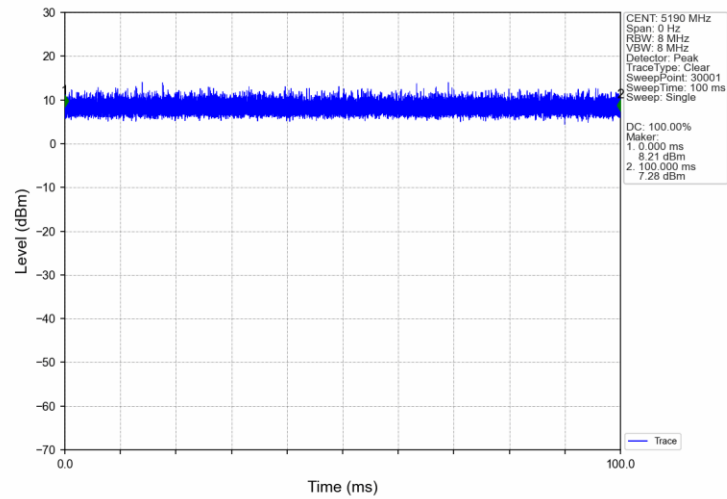
802.11ac(VHT20) MCH 5785MHz Ant1 NTN



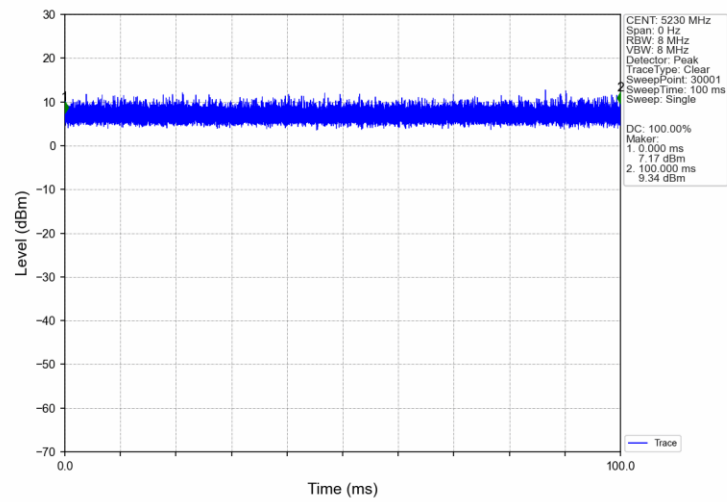
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



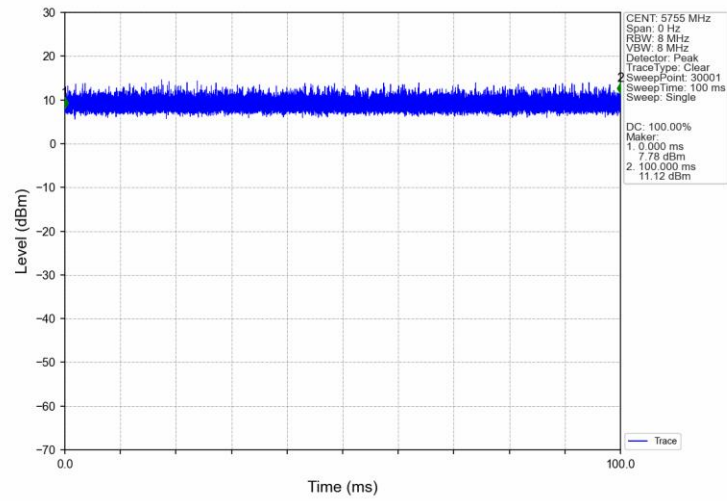
802.11ac(VHT40) LCH 5190MHz Ant1 NTN



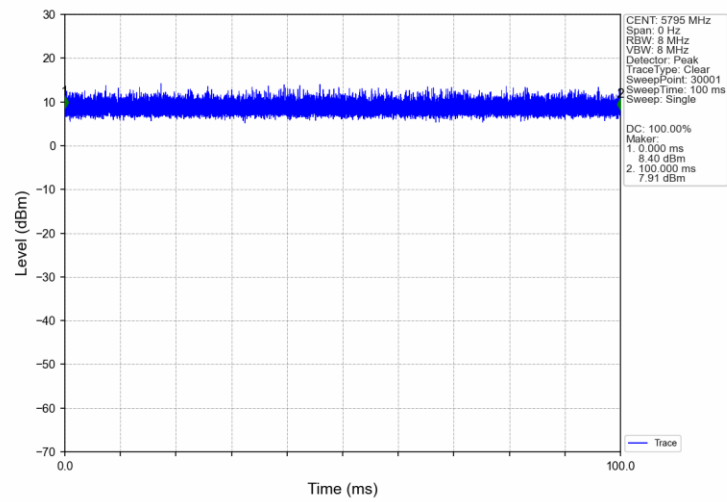
802.11ac(VHT40) HCH 5230MHz Ant1 NTN



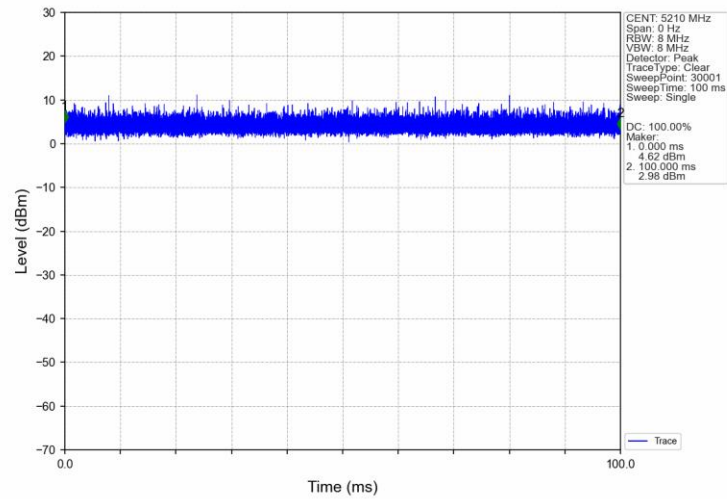
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



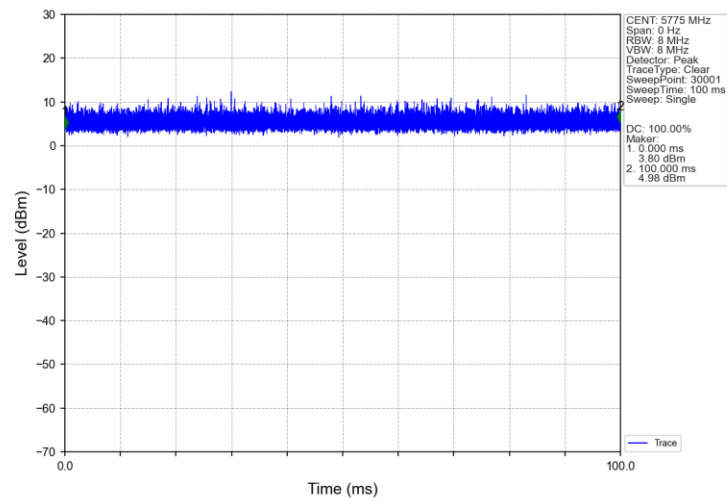
802.11ac(VHT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT80) MCH 5210MHz Ant1 NTN



802.11ac(VHT80) MCH 5775MHz Ant1 NTN



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	16.973	/	Pass
		5200	1	17.238	/	Pass
		5240	1	17.273	/	Pass
		5745	1	17.203	/	Pass
		5785	1	17.167	/	Pass
		5825	1	17.005	/	Pass
802.11n (HT20)	SISO	5180	1	17.987	/	Pass
		5200	1	18.188	/	Pass
		5240	1	18.138	/	Pass
		5745	1	17.957	/	Pass
		5785	1	18.033	/	Pass
		5825	1	18.010	/	Pass
802.11n (HT40)	SISO	5190	1	36.271	/	Pass
		5230	1	36.349	/	Pass
		5755	1	36.286	/	Pass
		5795	1	36.205	/	Pass
802.11ac (VHT20)	SISO	5180	1	18.018	/	Pass
		5200	1	18.101	/	Pass
		5240	1	18.130	/	Pass
		5745	1	17.989	/	Pass
		5785	1	17.950	/	Pass
		5825	1	18.025	/	Pass
802.11ac (VHT40)	SISO	5190	1	36.308	/	Pass
		5230	1	36.353	/	Pass
		5755	1	36.110	/	Pass
		5795	1	36.238	/	Pass
802.11ac (VHT80)	SISO	5210	1	76.082	/	Pass
		5775	1	75.641	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5180	1	20.200	/	Pass
		5200	1	20.800	/	Pass
		5240	1	20.177	/	Pass
802.11n (HT20)	SISO	5180	1	20.597	/	Pass
		5200	1	20.588	/	Pass
		5240	1	26.023	/	Pass
802.11n (HT40)	SISO	5190	1	40.902	/	Pass
		5230	1	43.217	/	Pass
802.11ac (VHT20)	SISO	5180	1	20.539	/	Pass
		5200	1	21.427	/	Pass
		5240	1	20.521	/	Pass
802.11ac (VHT40)	SISO	5190	1	48.886	/	Pass
		5230	1	42.800	/	Pass

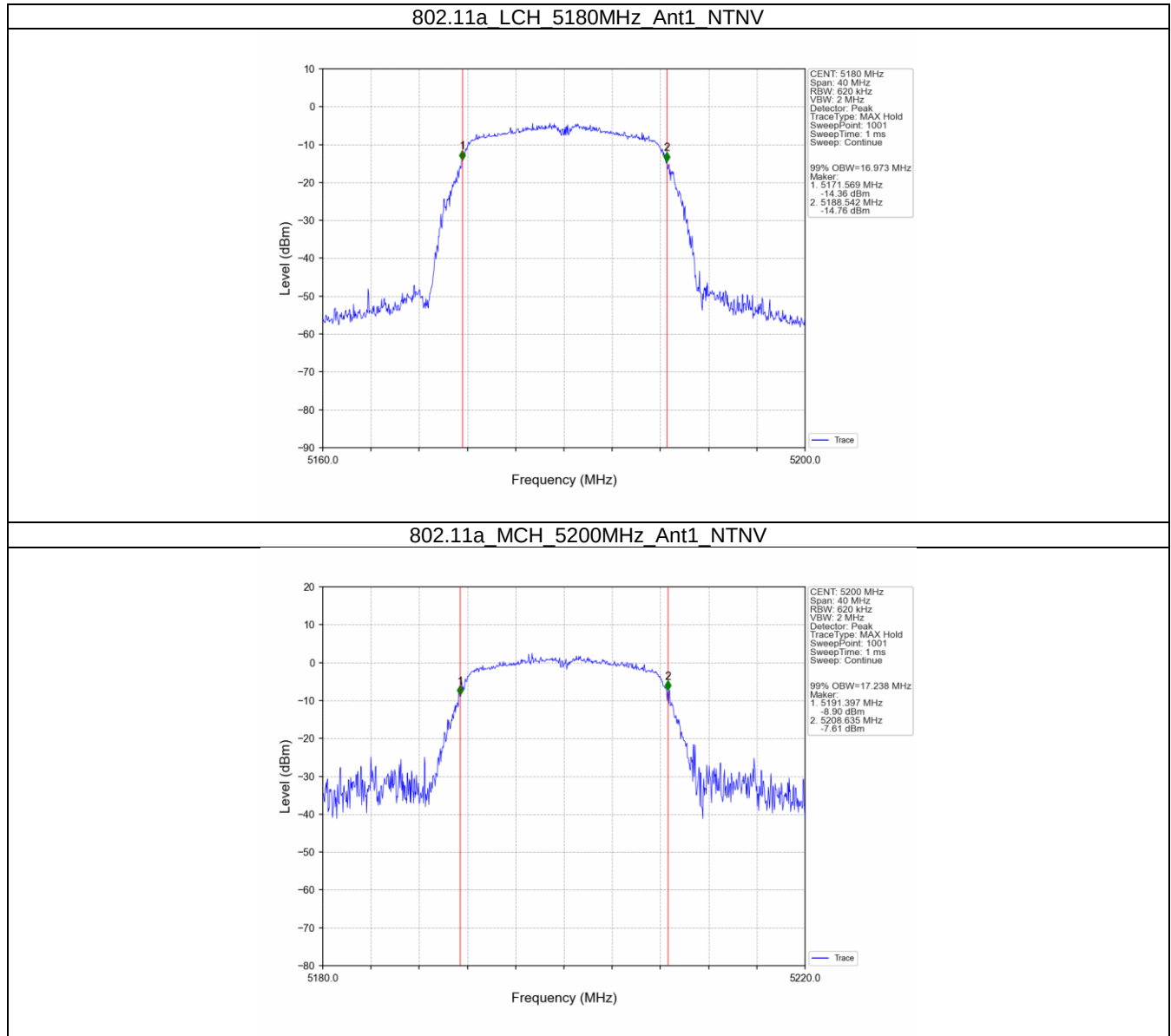
802.11ac (VHT80)	SISO	5210	1	80.961	/	Pass
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2.1.3 6dB BW

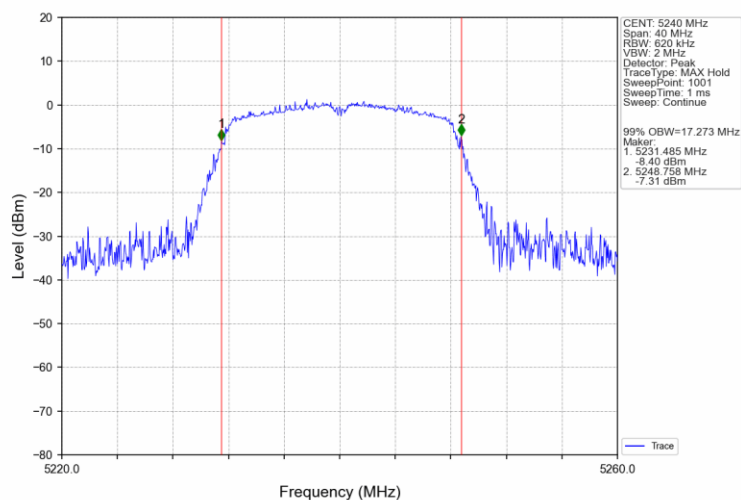
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.368	≥ 0.5	Pass
		5785	1	16.354	≥ 0.5	Pass
		5825	1	16.350	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.613	≥ 0.5	Pass
		5785	1	17.613	≥ 0.5	Pass
		5825	1	17.584	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	36.034	≥ 0.5	Pass
		5795	1	35.938	≥ 0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.608	≥ 0.5	Pass
		5785	1	17.625	≥ 0.5	Pass
		5825	1	17.626	≥ 0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.877	≥ 0.5	Pass
		5795	1	36.079	≥ 0.5	Pass
802.11ac (VHT80)	SISO	5775	1	74.448	≥ 0.5	Pass

2.2 Test Graph

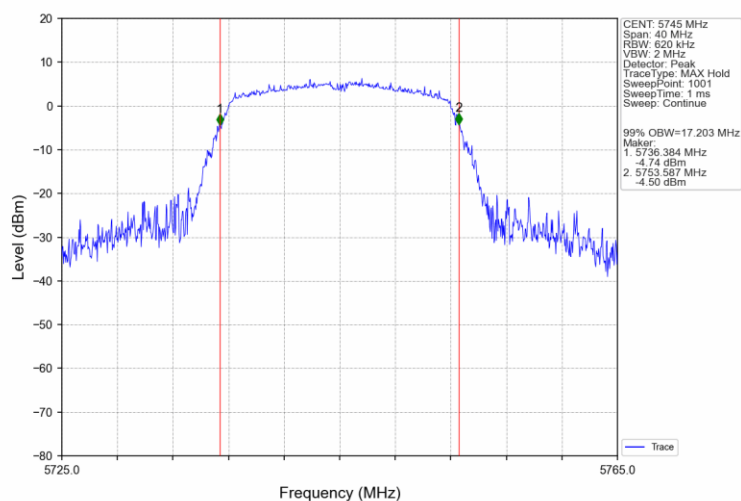
2.2.1 OBW



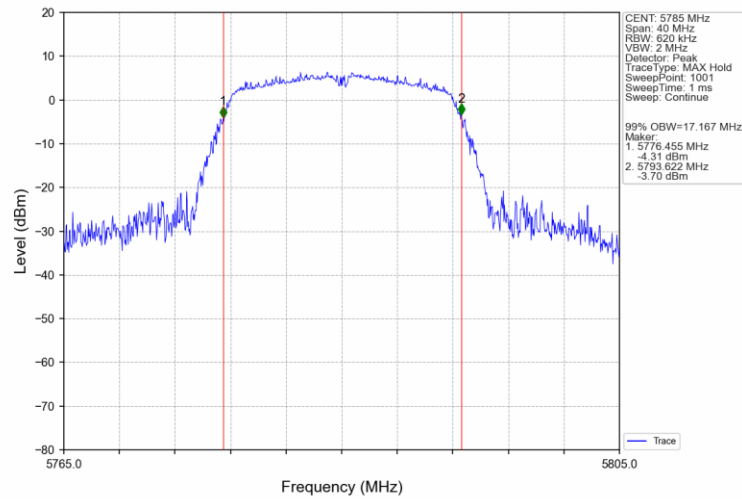
802.11a_HCH_5240MHz_Ant1_NTNV



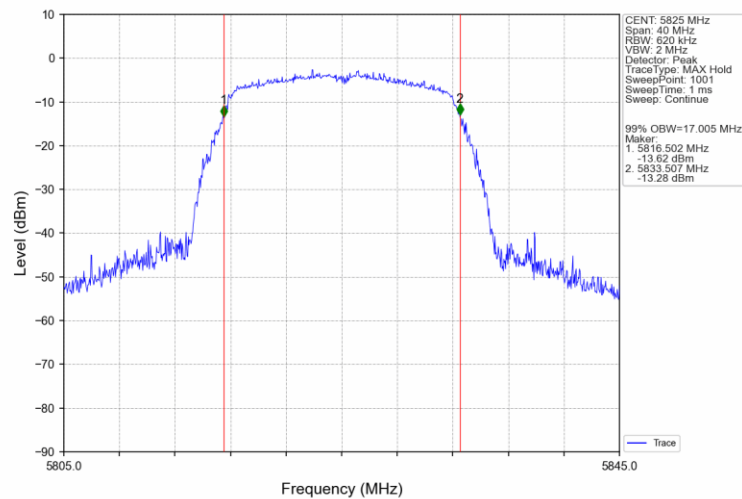
802.11a_LCH_5745MHz_Ant1_NTNV



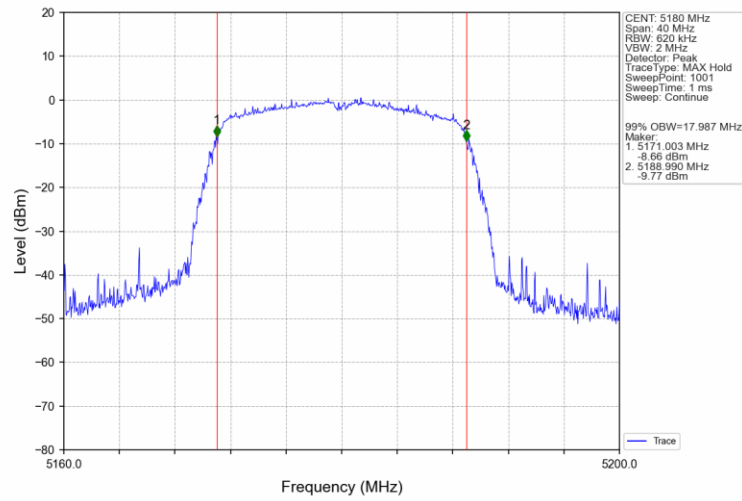
802.11a_MCH_5785MHz_Ant1_NTNV



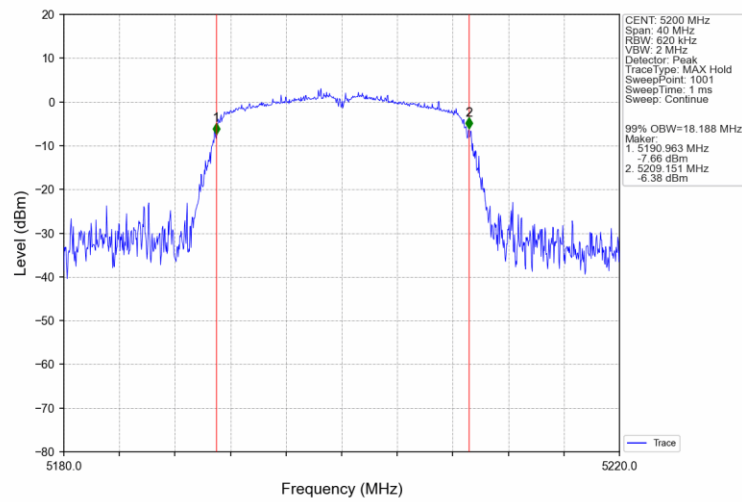
802.11a_HCH_5825MHz_Ant1_NTNV



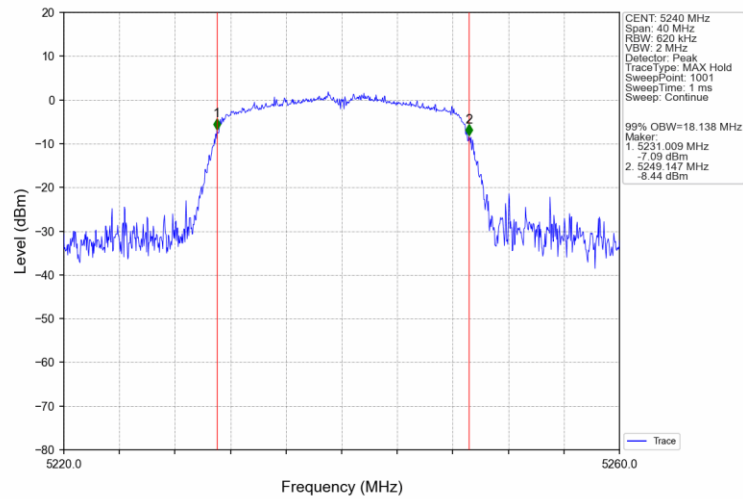
802.11n(HT20) LCH 5180MHz Ant1 NTN



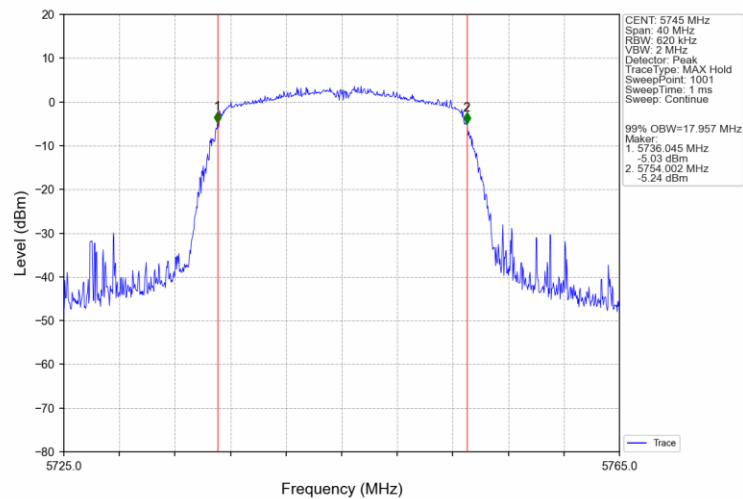
802.11n(HT20) MCH 5200MHz Ant1 NTN



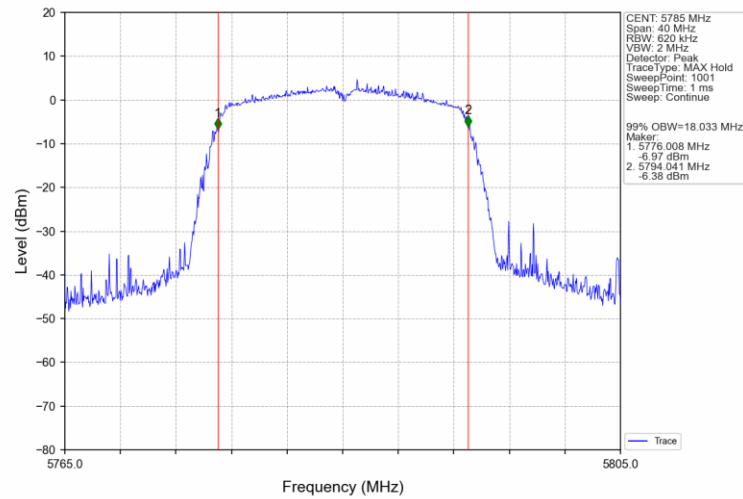
802.11n(HT20) HCH 5240MHz Ant1 NTN



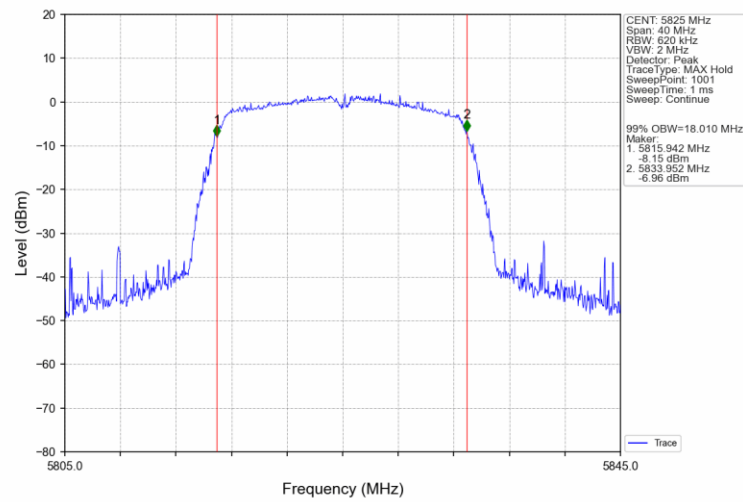
802.11n(HT20) LCH 5745MHz Ant1 NTN



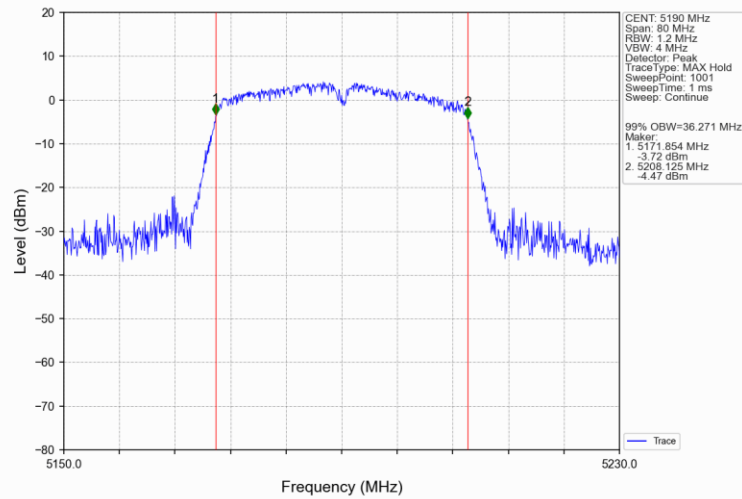
802.11n(HT20) MCH 5785MHz Ant1 NTN



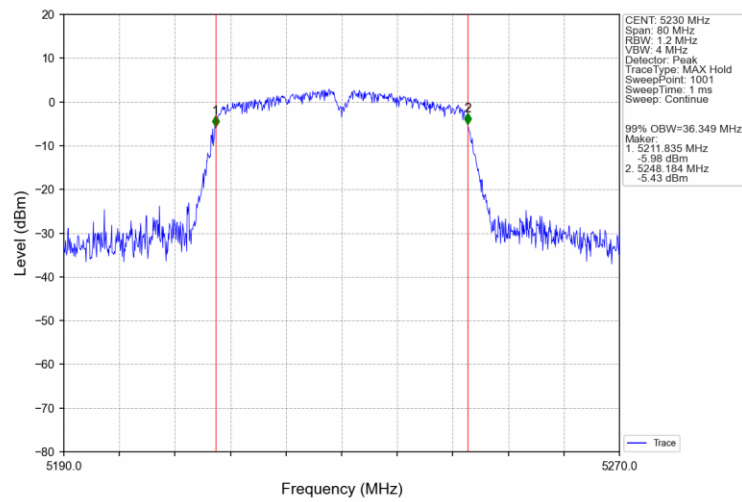
802.11n(HT20) HCH 5825MHz Ant1 NTN



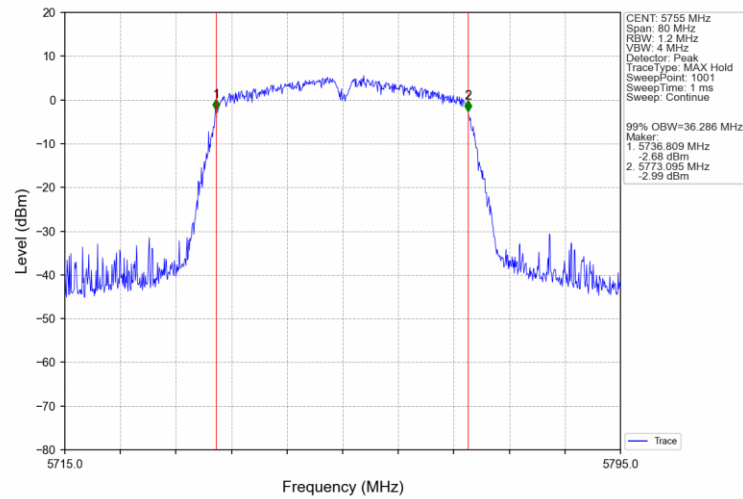
802.11n(HT40) LCH 5190MHz Ant1 NTN



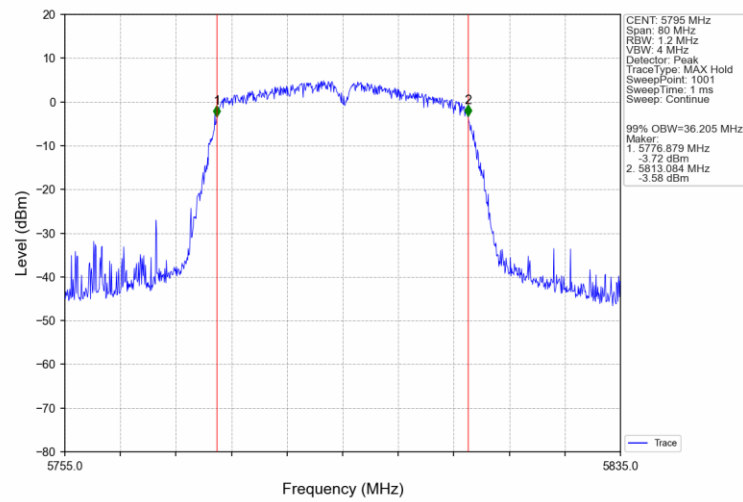
802.11n(HT40) HCH 5230MHz Ant1 NTN



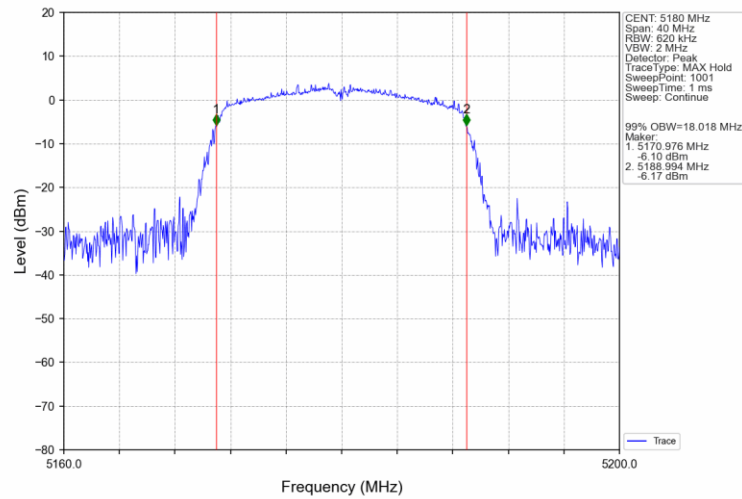
802.11n(HT40) LCH 5755MHz Ant1 NTN



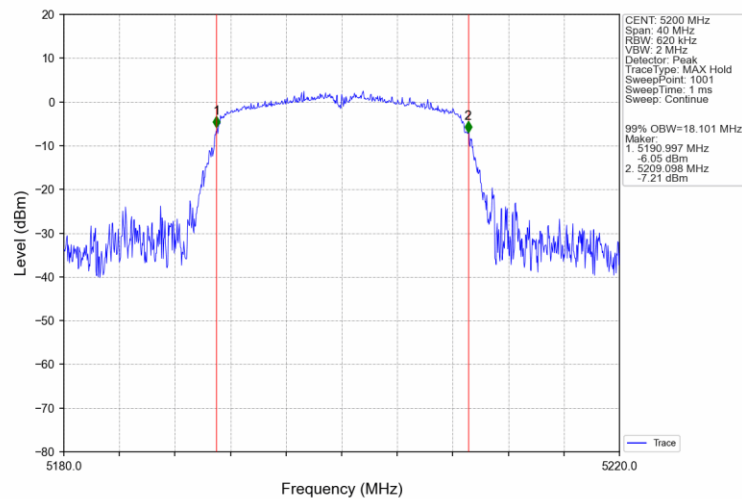
802.11n(HT40) HCH 5795MHz Ant1 NTN



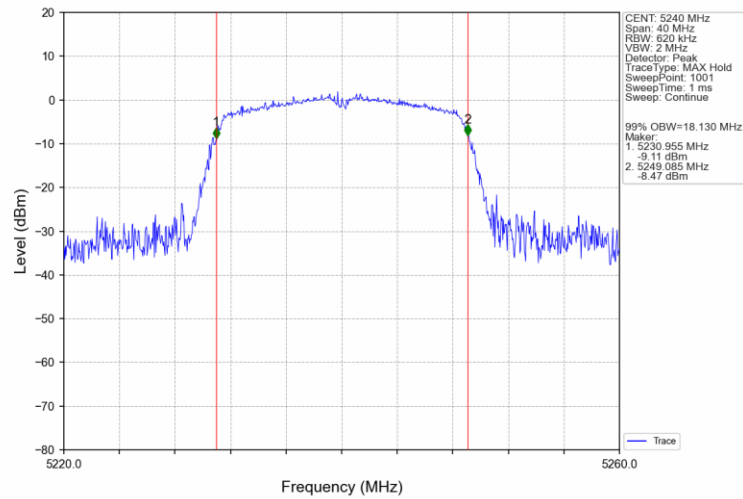
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



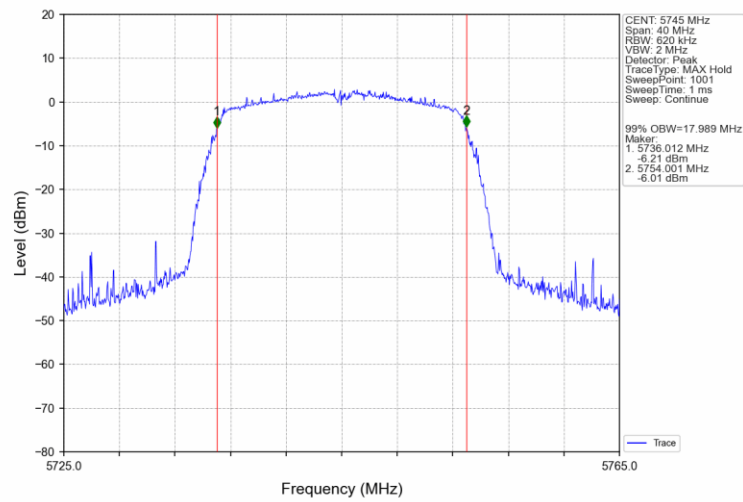
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



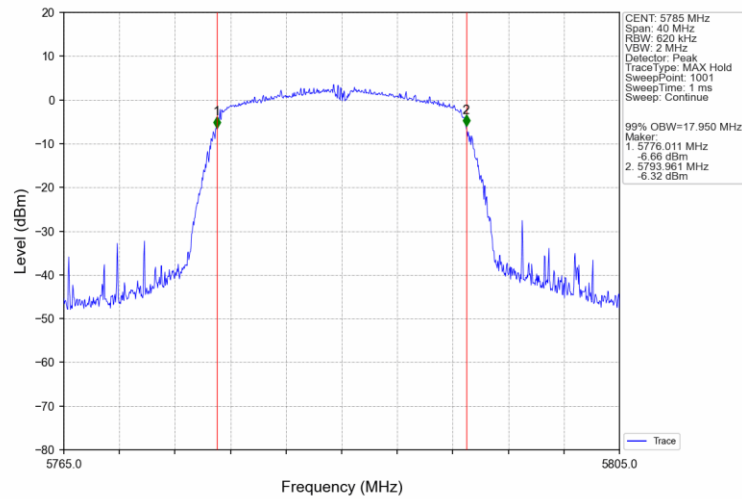
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



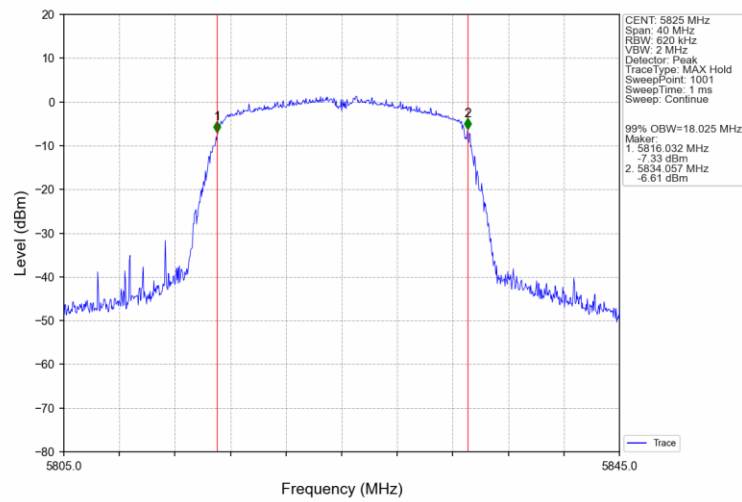
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



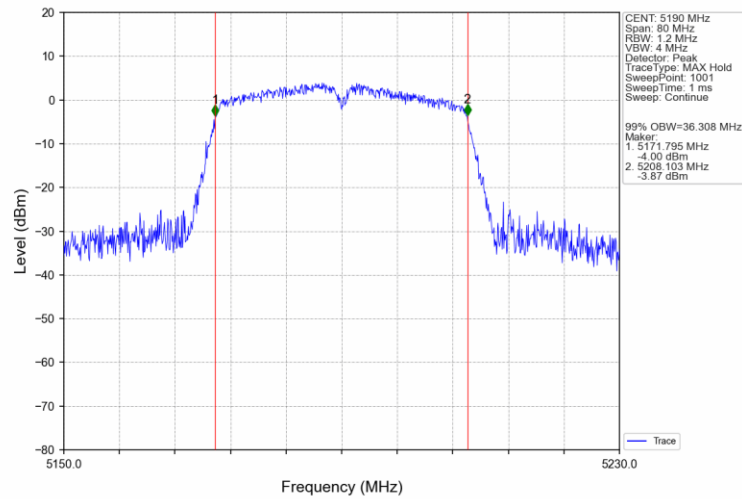
802.11ac(VHT20) MCH 5785MHz Ant1 NTN



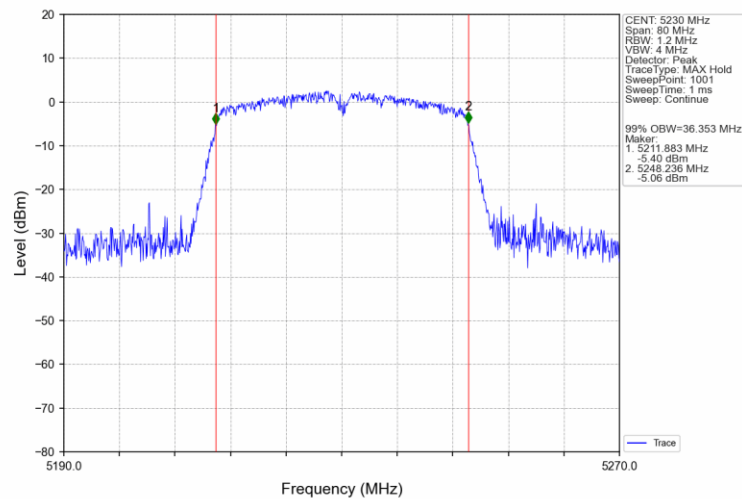
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



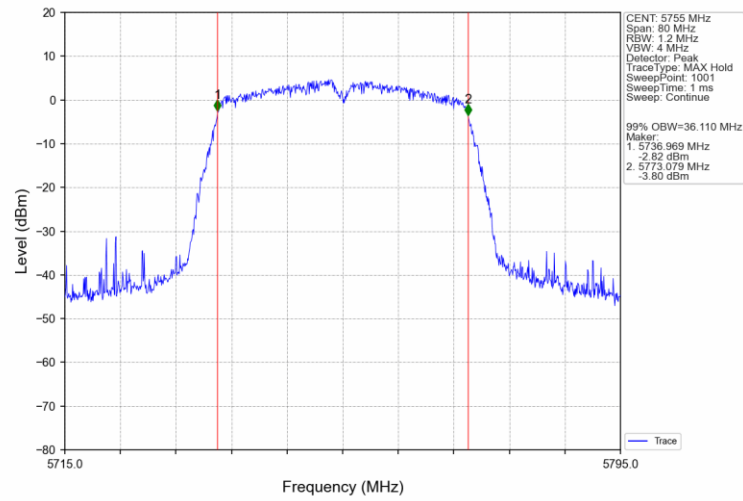
802.11ac(VHT40) LCH 5190MHz Ant1 NTN



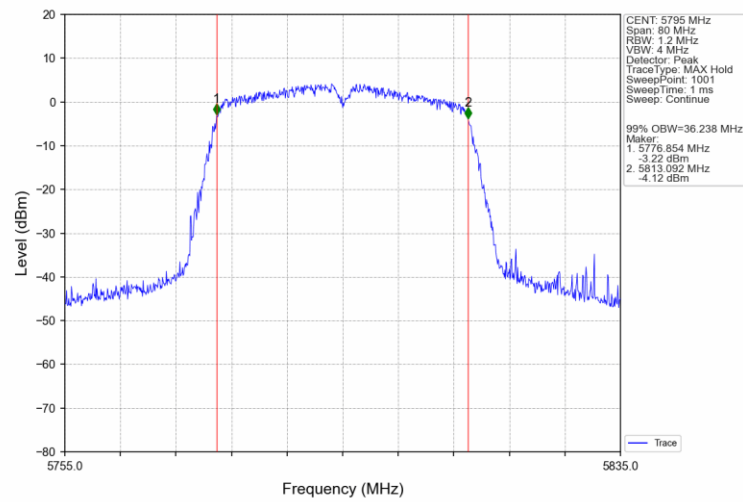
802.11ac(VHT40) HCH 5230MHz Ant1 NTN



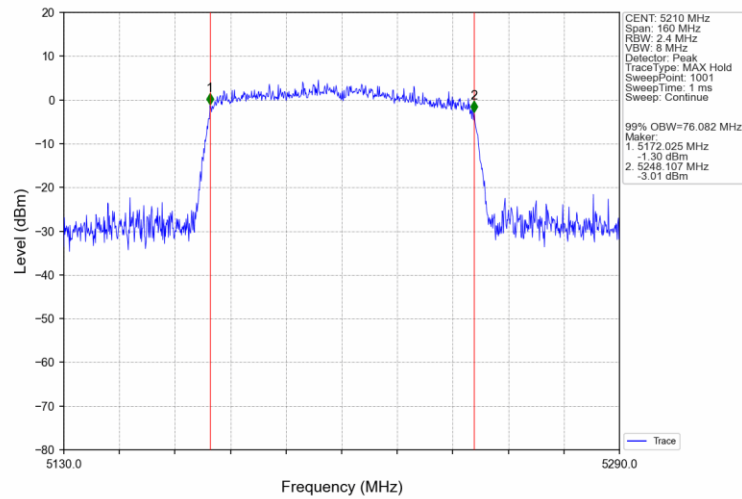
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



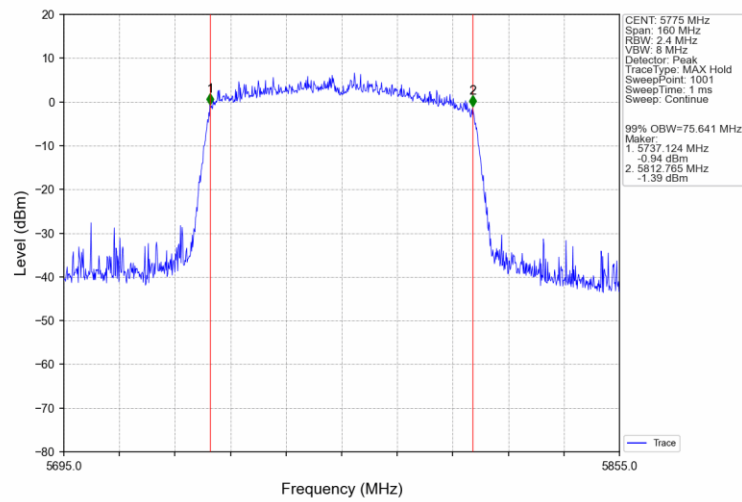
802.11ac(VHT40) HCH 5795MHz Ant1 NTN



802.11ac(VHT80) MCH 5210MHz Ant1 NTN

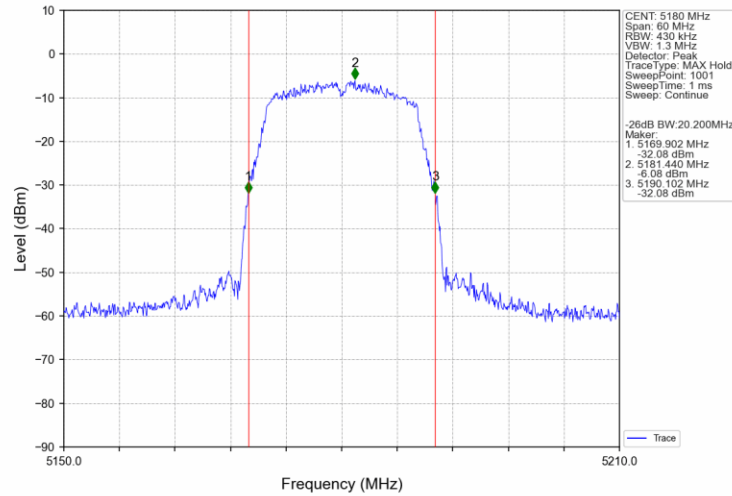


802.11ac(VHT80) MCH 5775MHz Ant1 NTN

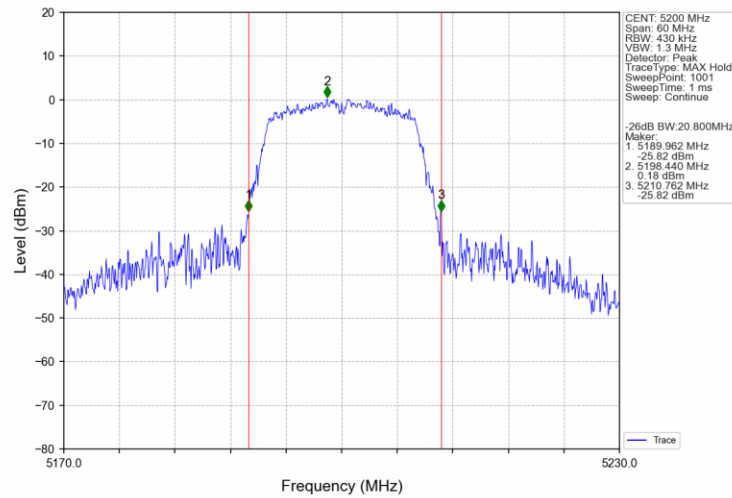


2.2.2 26dB BW

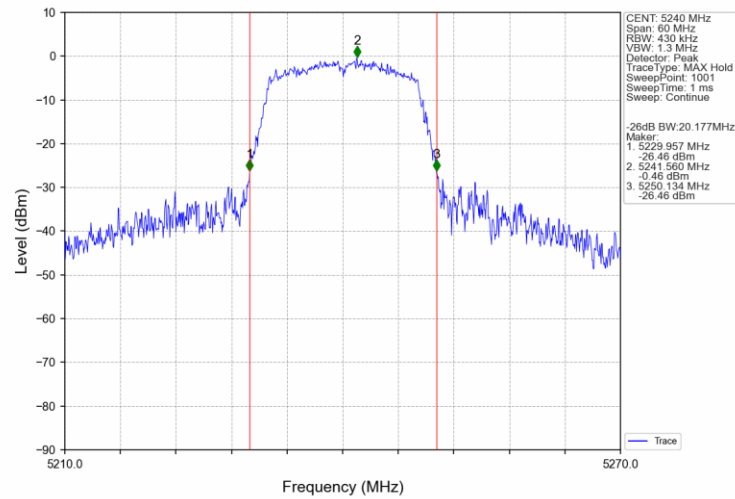
802.11a LCH 5180MHz Ant1 NTN



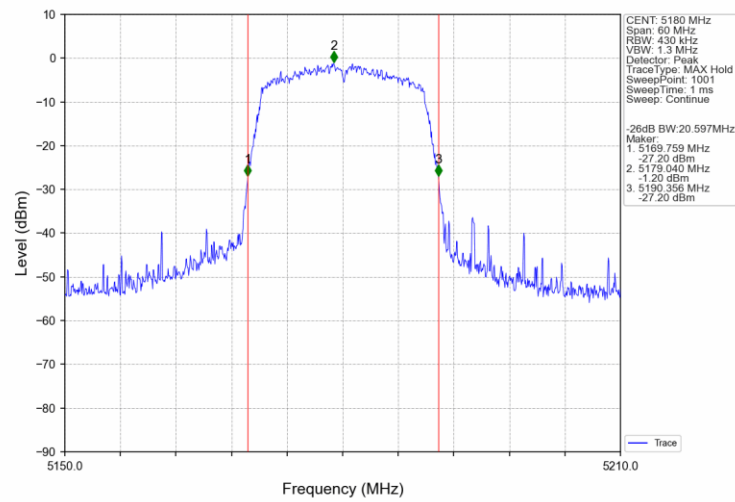
802.11a MCH 5200MHz Ant1 NTN



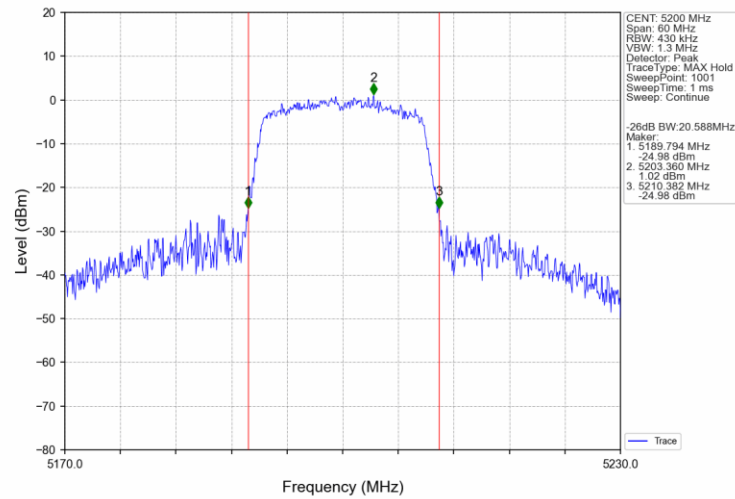
802.11a HCH 5240MHz Ant1 NTN



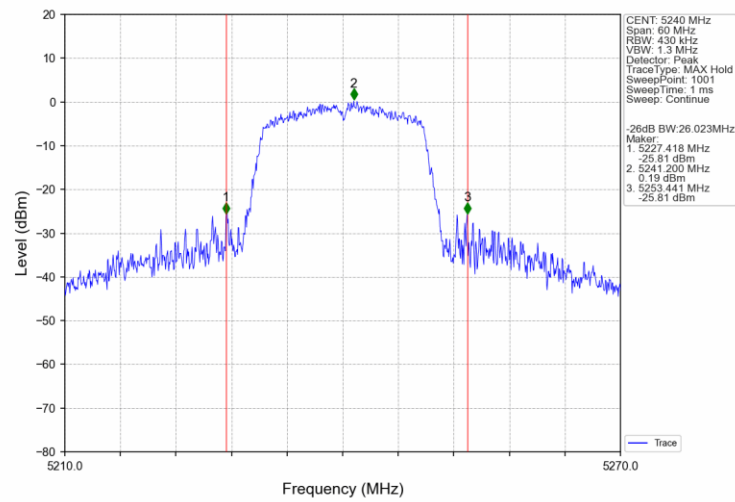
802.11n(HT20)_LCH_5180MHz_Ant1_NTN



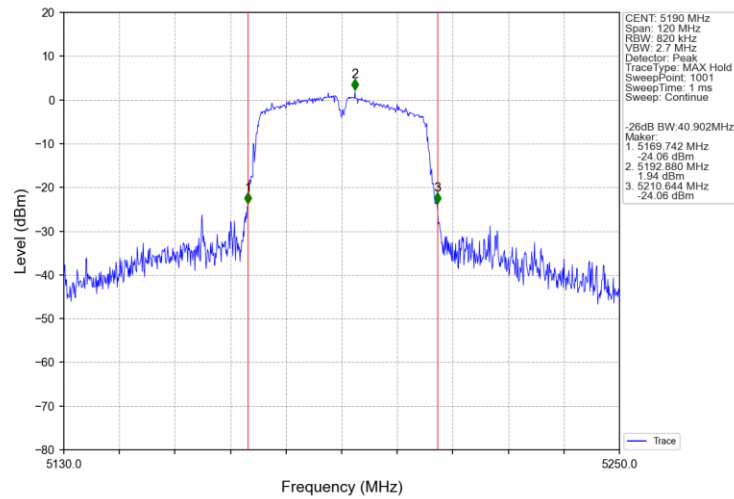
802.11n(HT20) MCH 5200MHz Ant1 NTNv



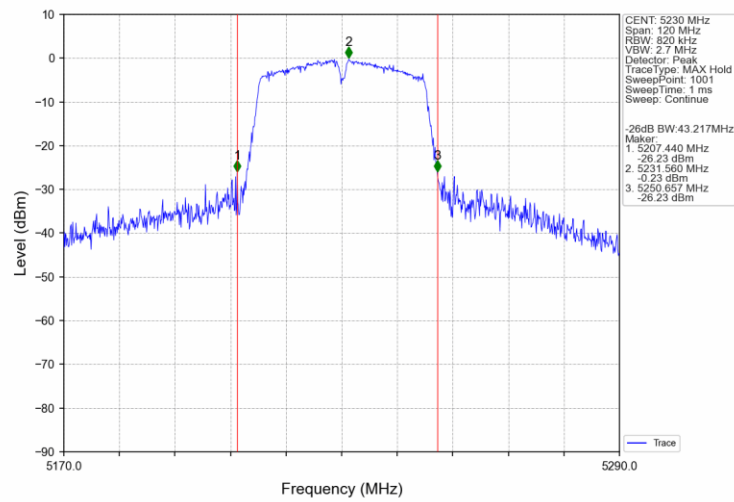
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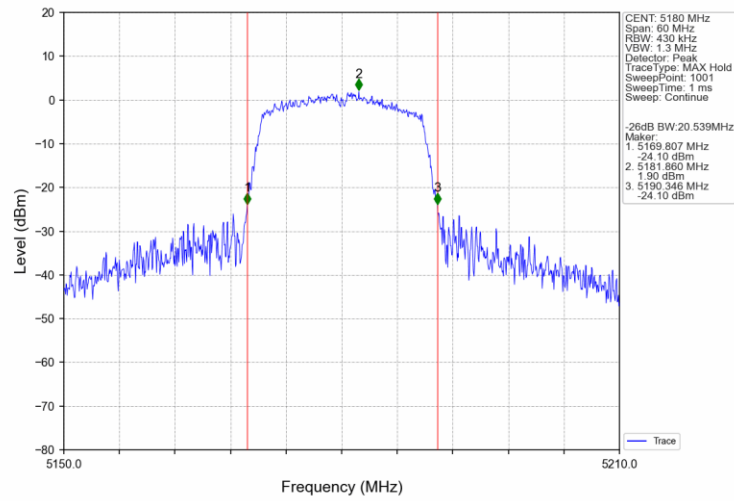
802.11n(HT40) LCH 5190MHz Ant1 NTV



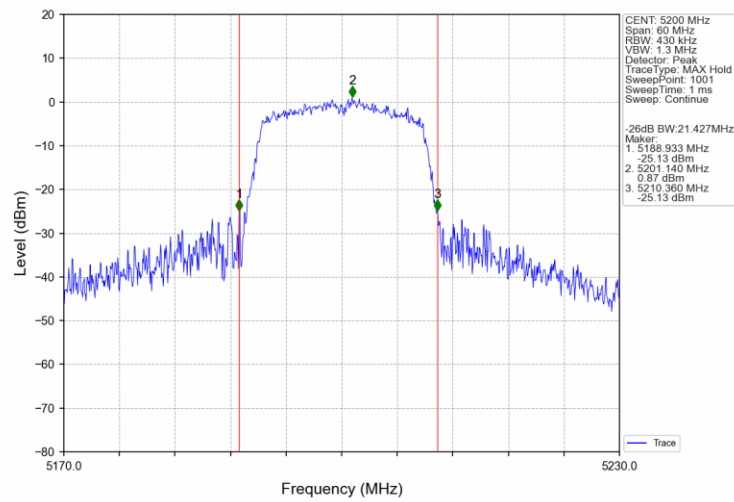
802.11n(HT40) HCH 5230MHz Ant1 NTV



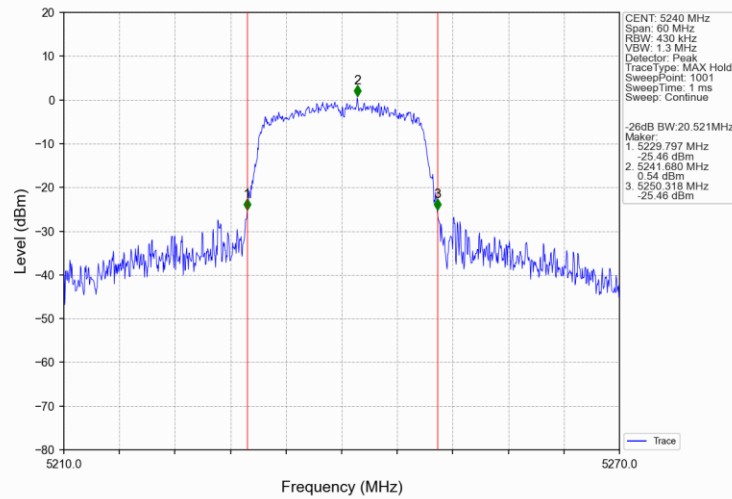
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



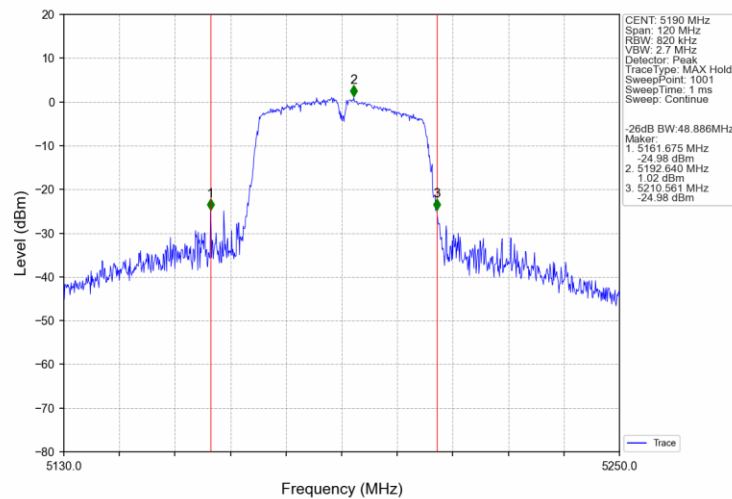
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



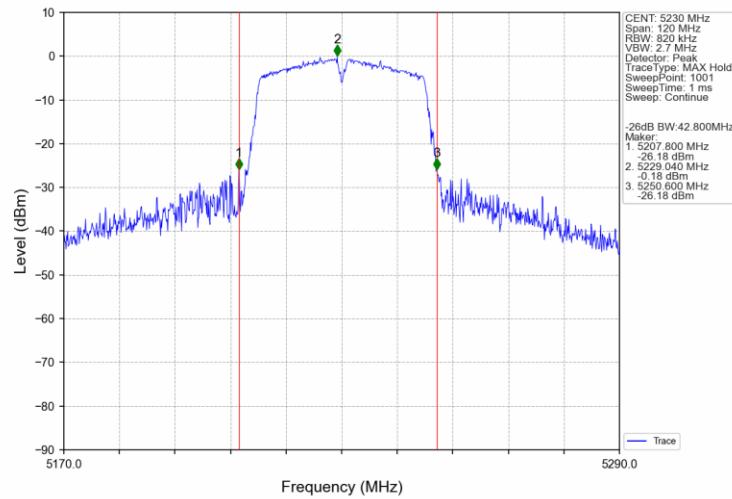
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



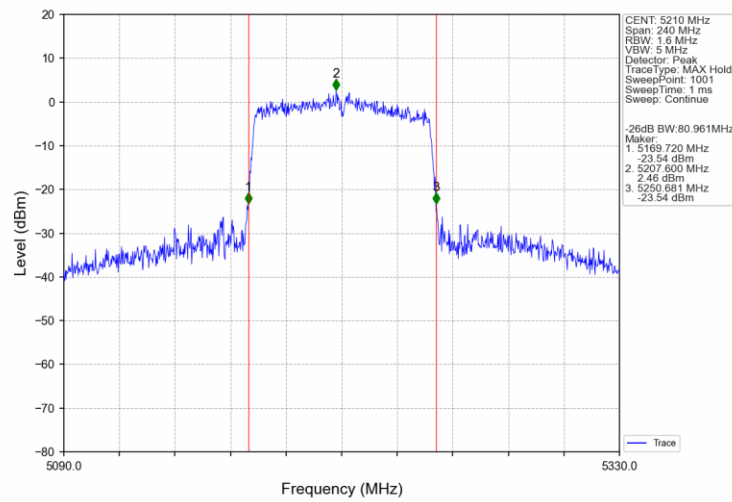
802.11ac(VHT40) LCH 5190MHz Ant1 NTN



802.11ac(VHT40) HCH 5230MHz Ant1 NTN

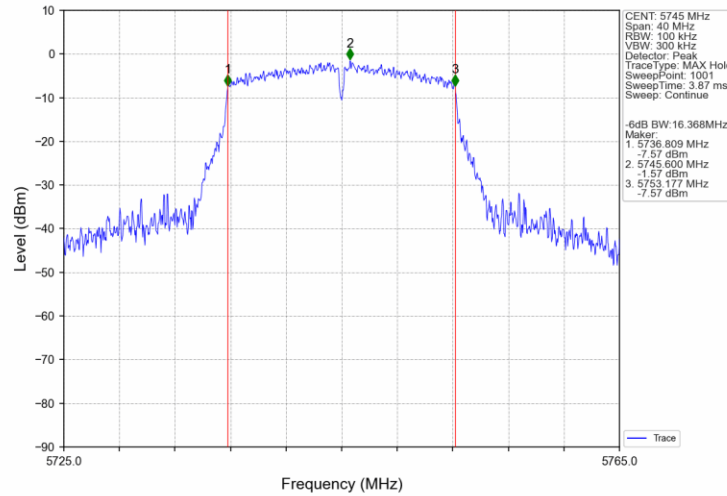


802.11ac(VHT80) MCH 5210MHz Ant1 NTN

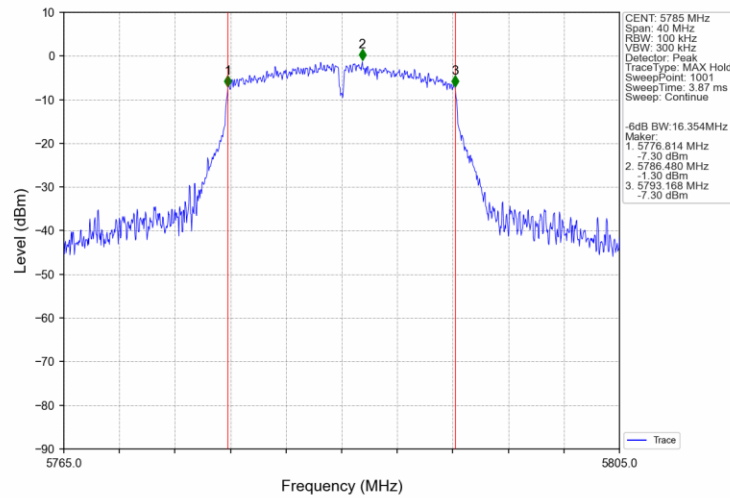


2.2.3 6dB BW

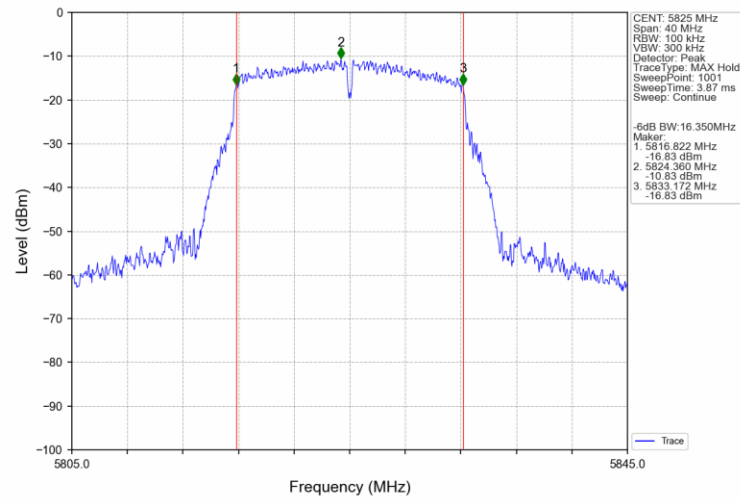
802.11a LCH 5745MHz Ant1 NTN



802.11a MCH 5785MHz Ant1 NTN



802.11a HCH 5825MHz Ant1 NTN



802.11n(HT20)_LCH_5745MHz_Ant1_NTN

