

Appendix B for KSCR210900016102

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

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	1.391	1.460	95.27	0.21	0.03
		5200	1.391	1.459	95.34	0.21	0.03
		5240	1.393	1.461	95.35	0.21	0.03
		5745	1.393	1.461	95.35	0.21	0.03
		5785	1.392	1.460	95.34	0.21	0.03
		5825	1.393	1.461	95.35	0.21	0.03
802.11n (HT20)	SISO	5180	5.083	5.151	98.68	0.06	0.03
		5200	5.083	5.152	98.66	0.06	0.04
		5240	5.083	5.152	98.66	0.06	0.04
		5745	5.084	5.152	98.68	0.06	0.00
		5785	5.083	5.152	98.66	0.06	0.04
		5825	5.083	5.152	98.66	0.06	0.00
802.11n (HT40)	SISO	5190	0.281	0.348	80.75	0.93	0.00
		5230	2.468	2.536	97.32	0.12	0.03
		5755	2.467	2.536	97.28	0.12	0.03
		5795	2.468	2.536	97.32	0.12	0.03



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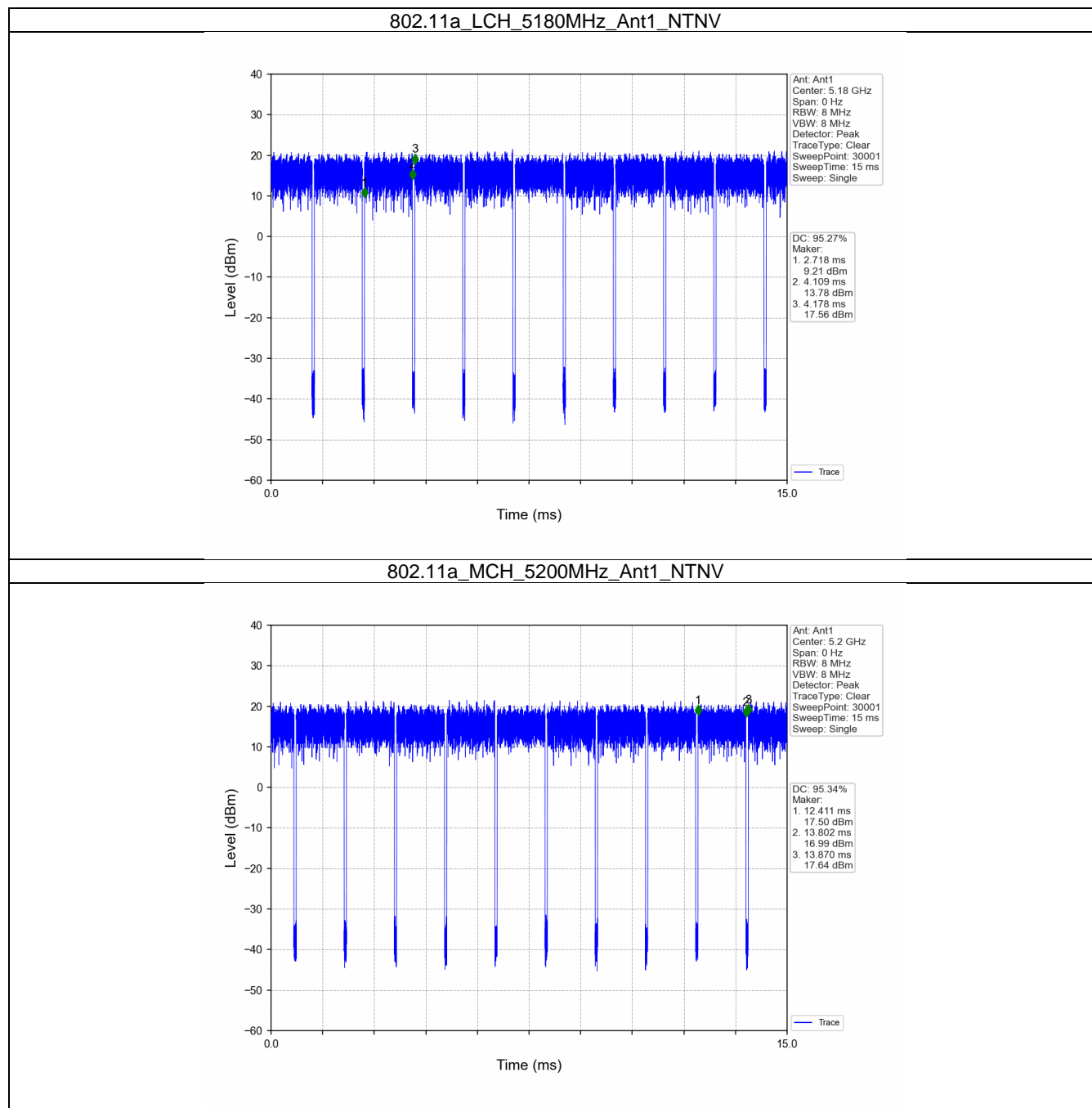
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1.1.2 Test Graph



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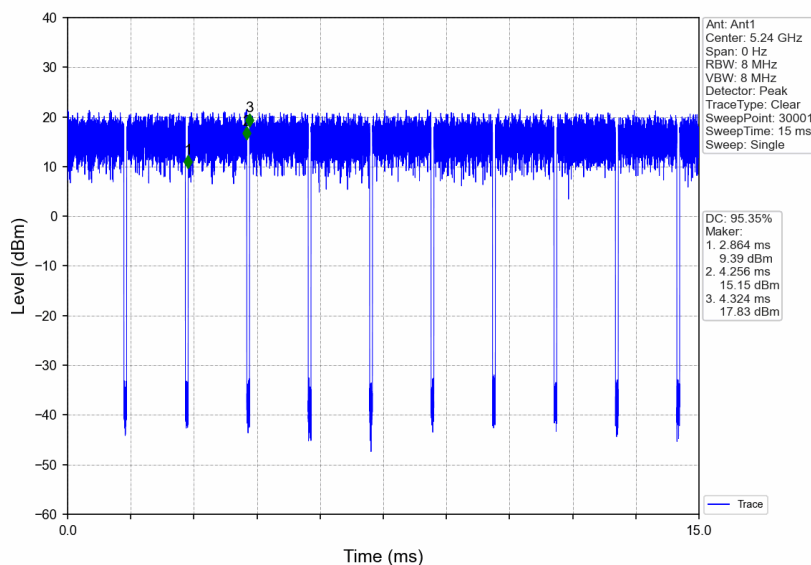
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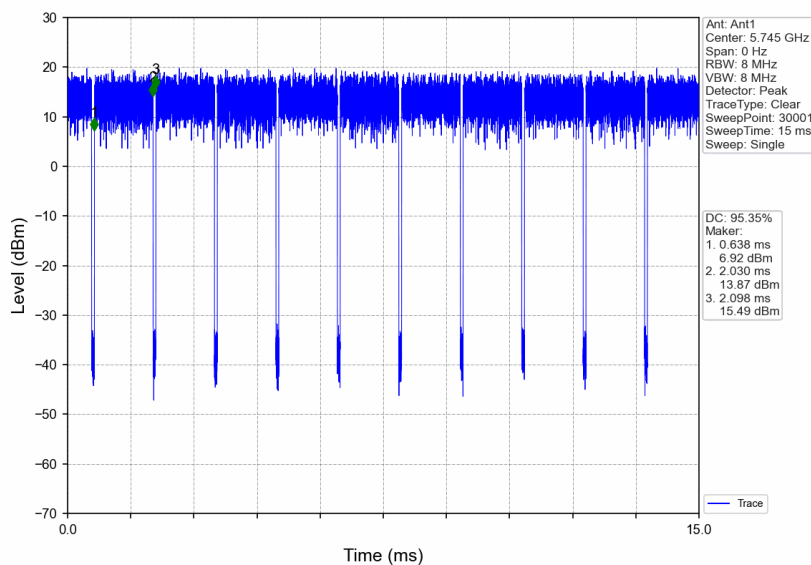
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



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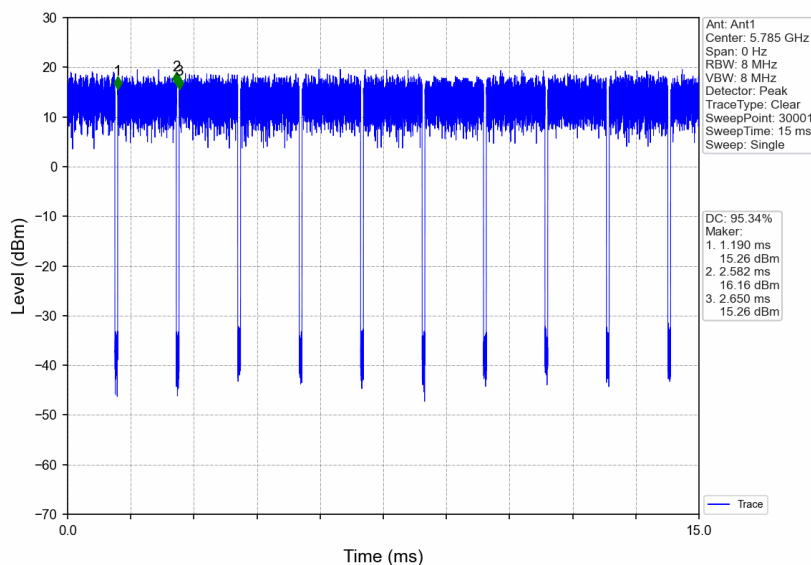
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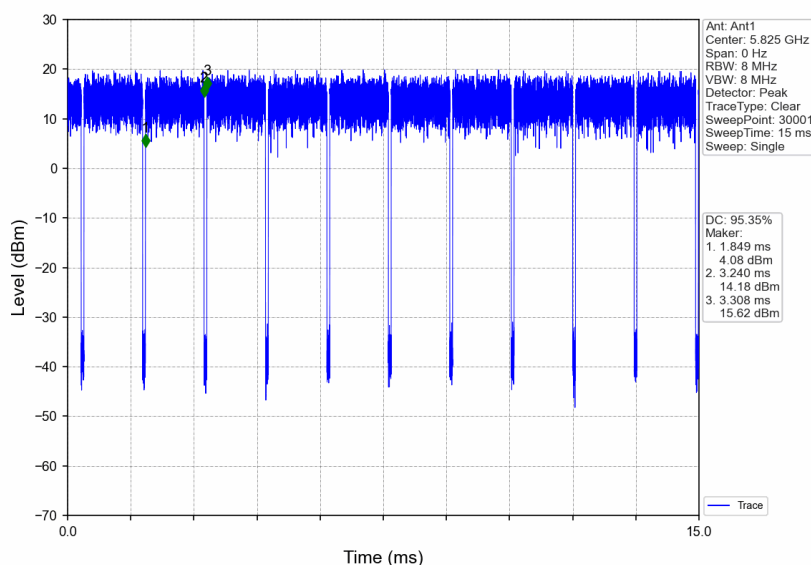
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802.11a_HCH_5825MHz_Ant1_NTNV



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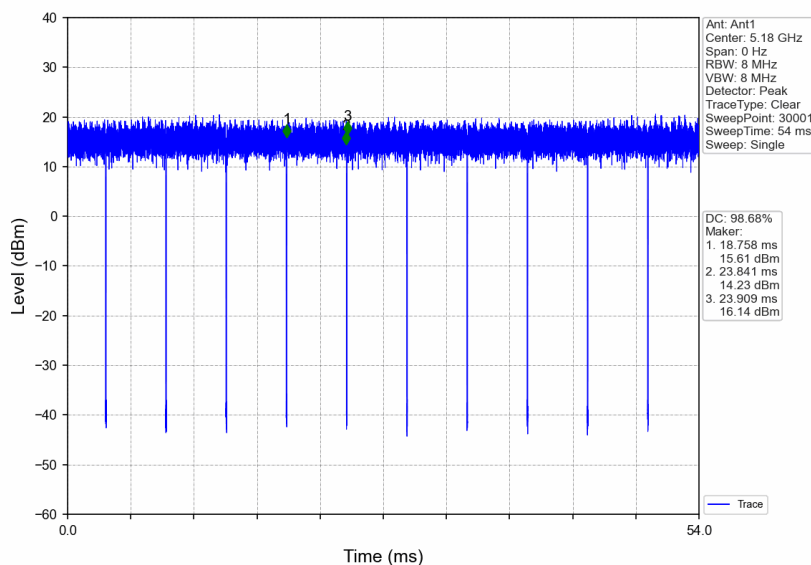
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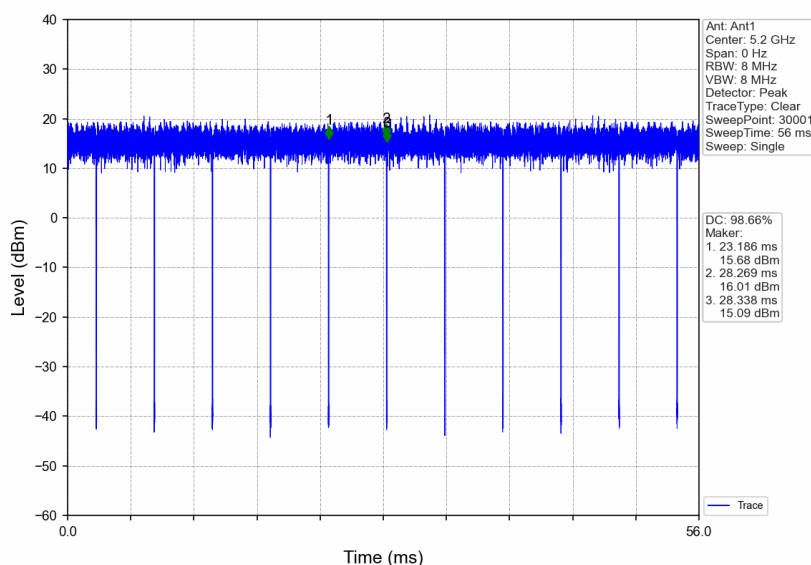
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



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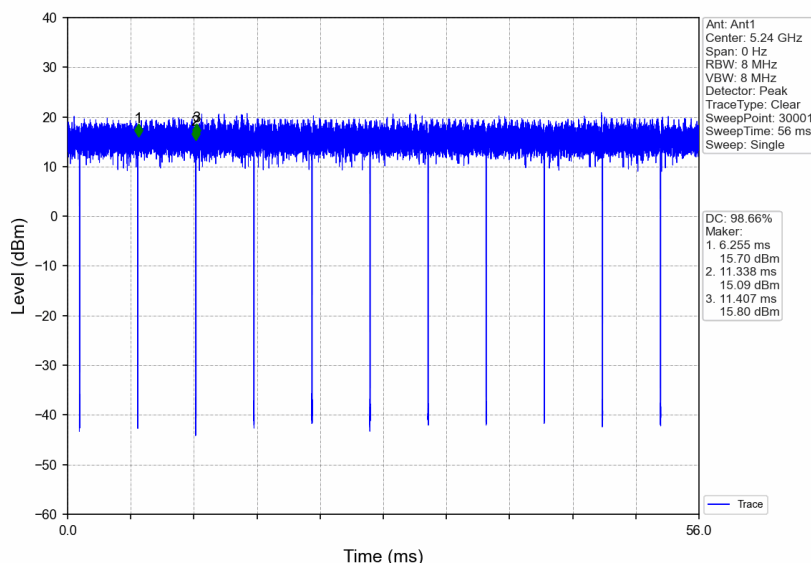
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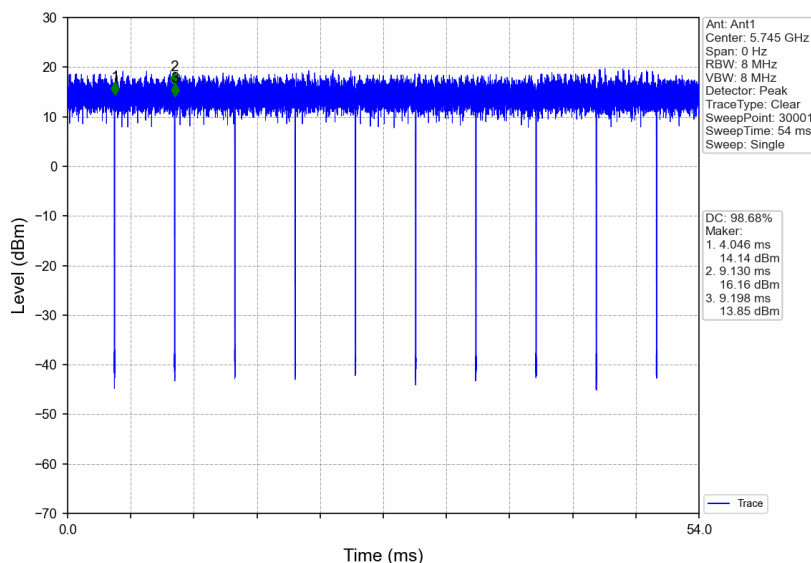
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802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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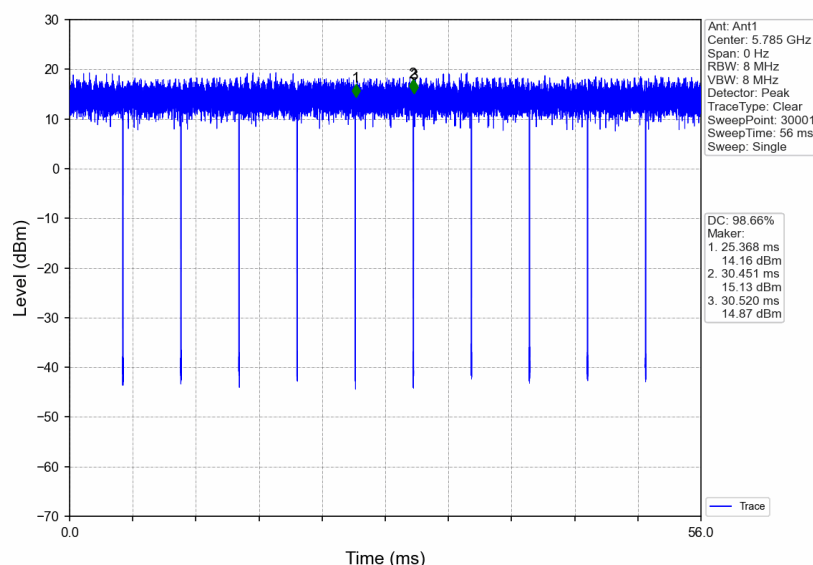
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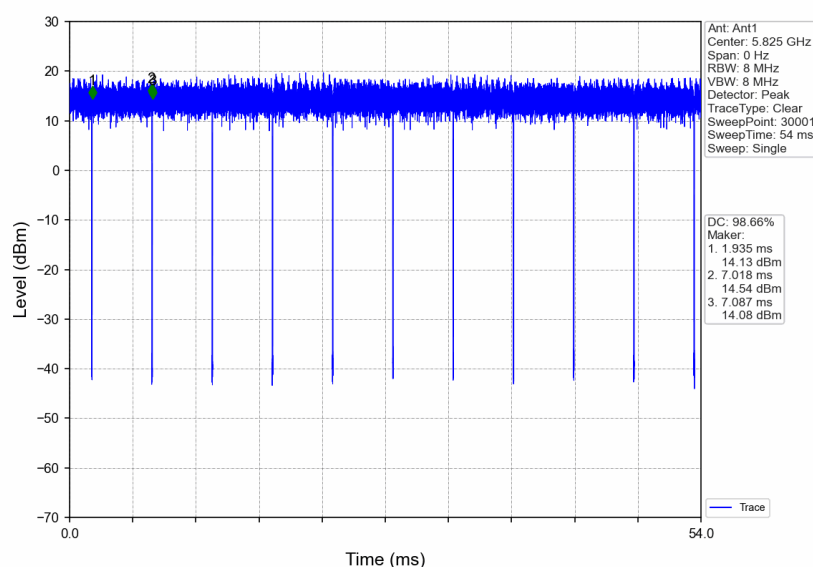
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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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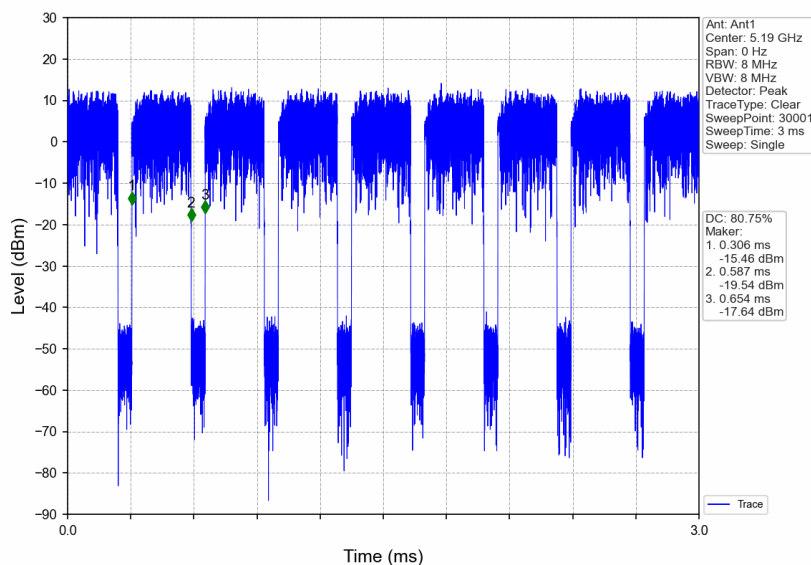
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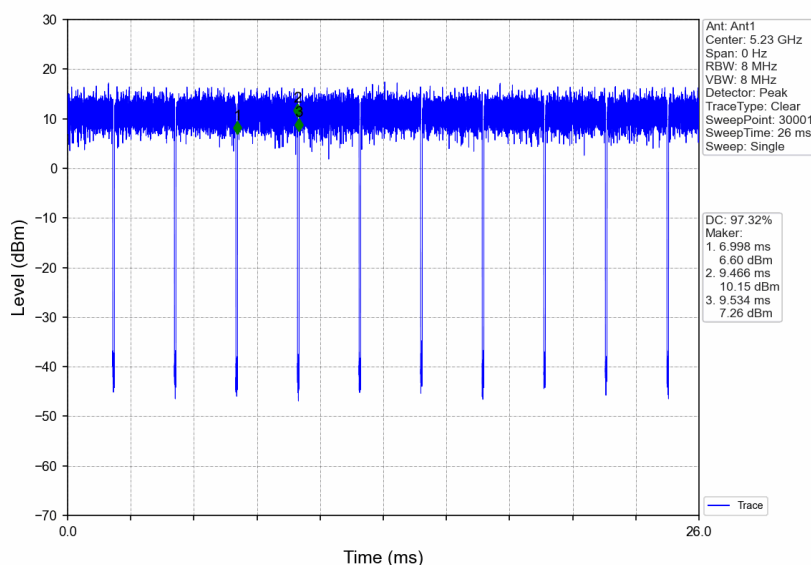
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802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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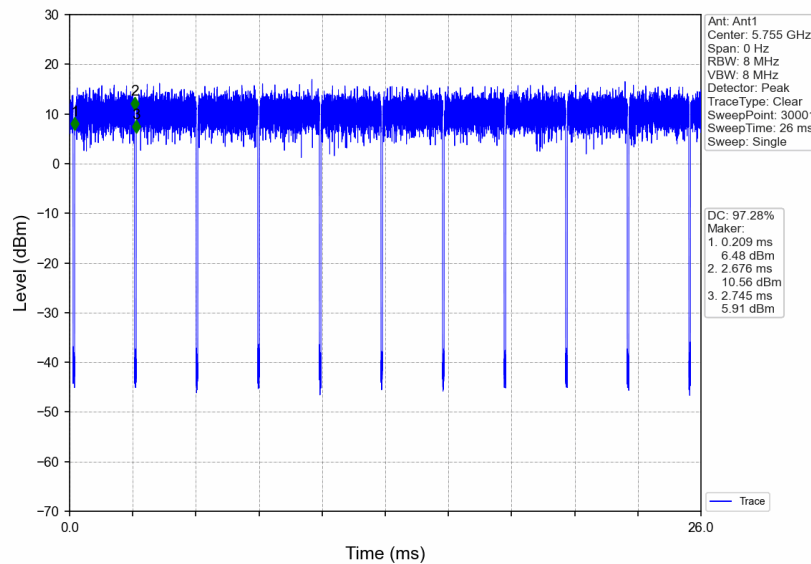
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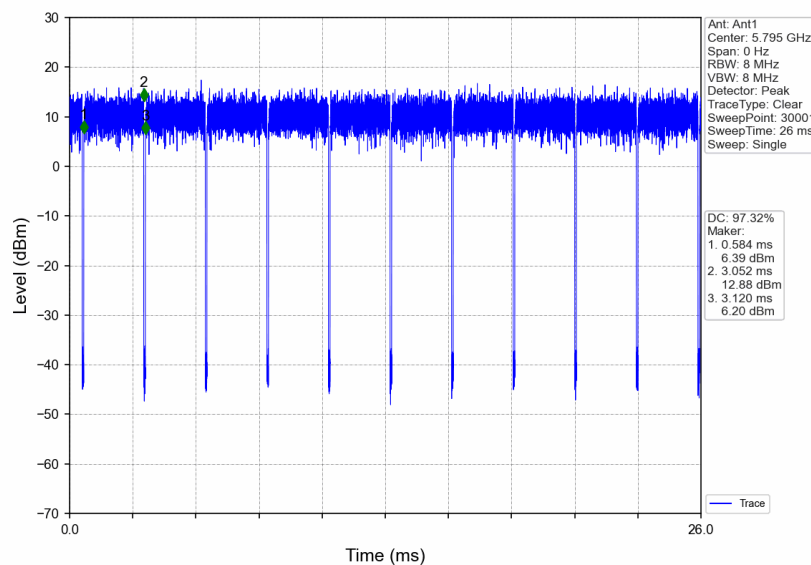
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	19.506	Pass
		5200	1	19.423	Pass
		5240	1	18.963	Pass
		5745	1	18.191	Pass
		5785	1	18.226	Pass
		5825	1	18.187	Pass
802.11n (HT20)	SISO	5180	1	19.045	Pass
		5200	1	18.946	Pass
		5240	1	18.759	Pass
		5745	1	18.621	Pass
		5785	1	18.651	Pass
		5825	1	18.638	Pass
802.11n (HT40)	SISO	5190	1	36.820	Pass
		5230	1	37.512	Pass
		5755	1	37.366	Pass
		5795	1	37.466	Pass



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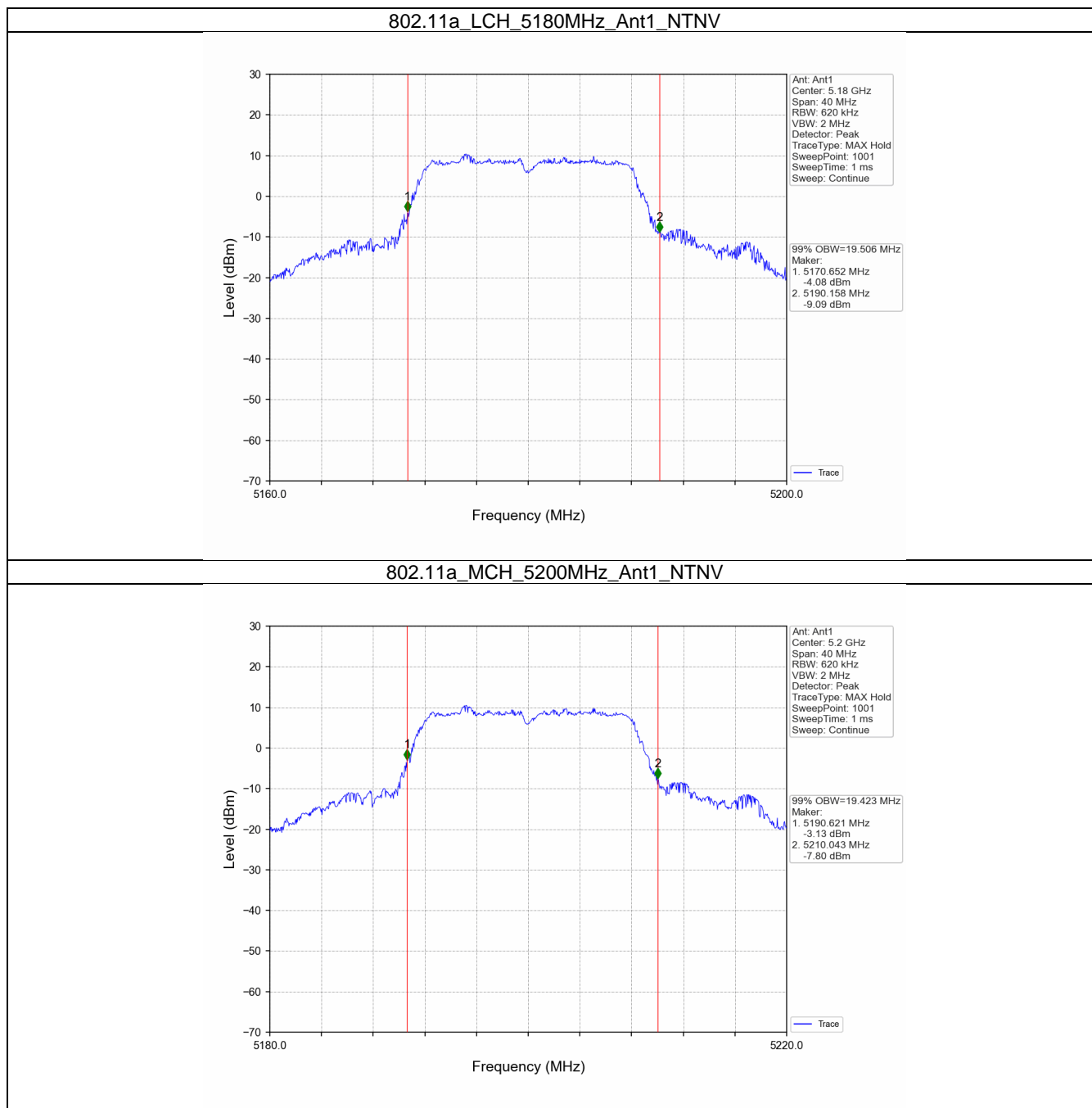
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2.1.2 Test Graph



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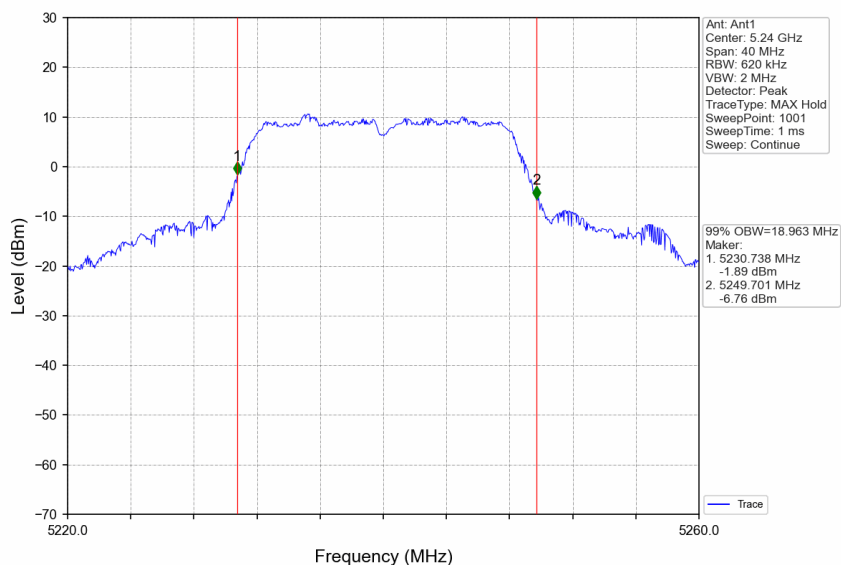
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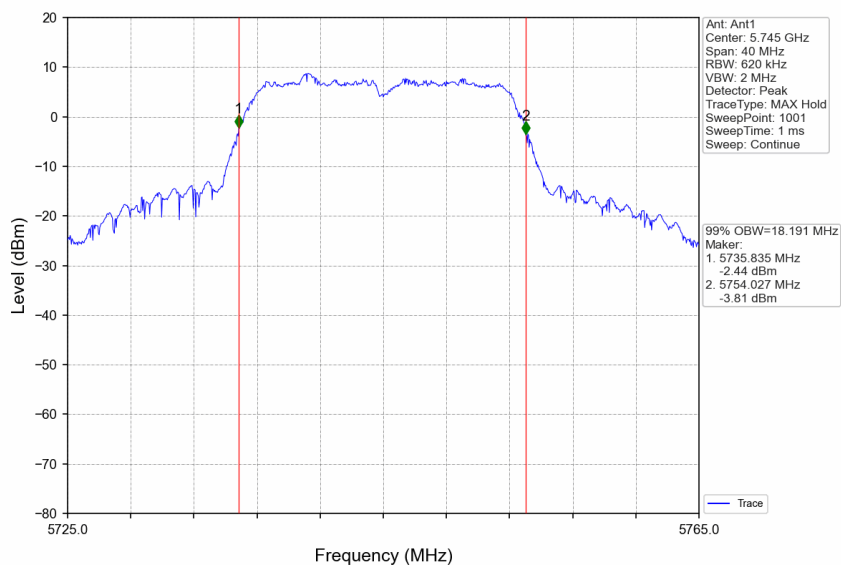
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802.11a_LCH_5745MHz_Ant1_NTNV



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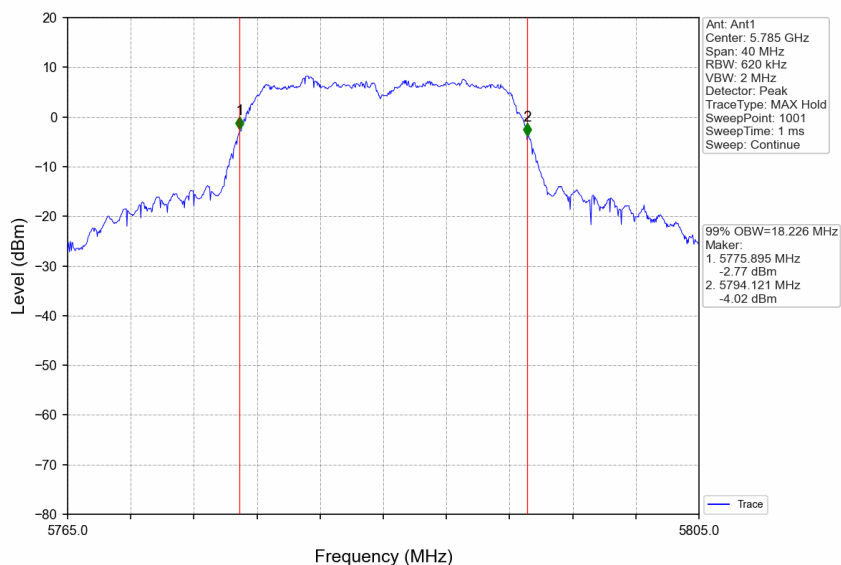
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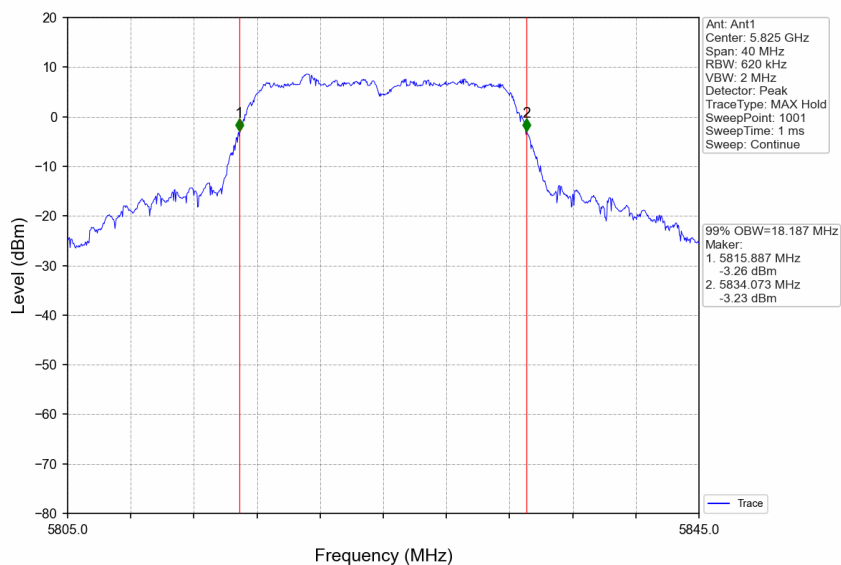
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



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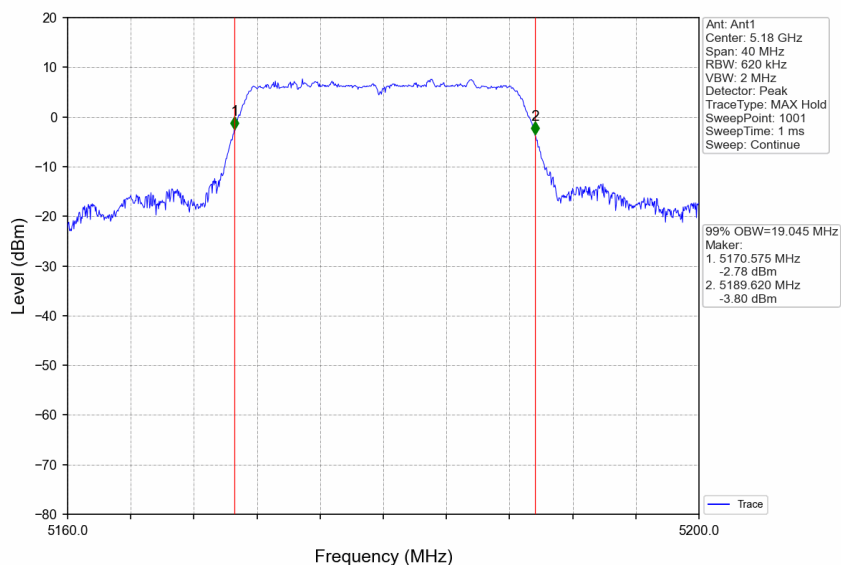
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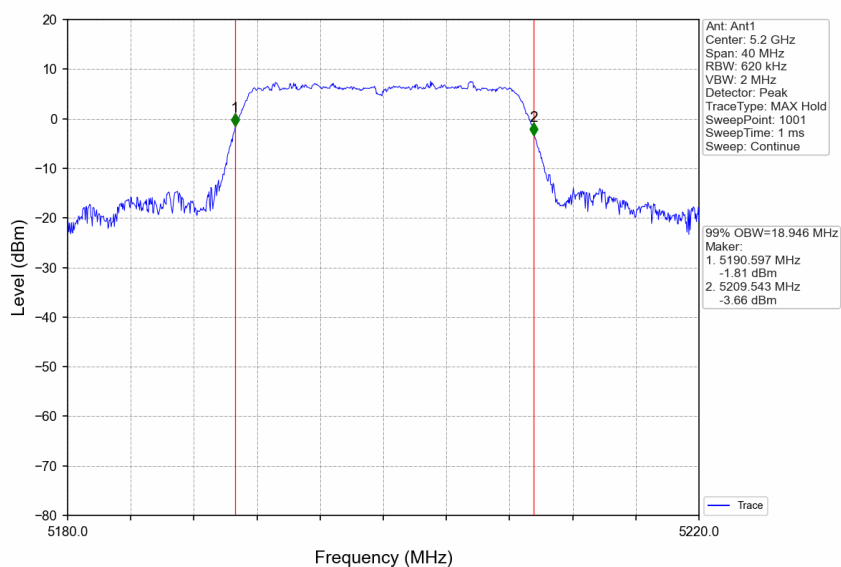
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



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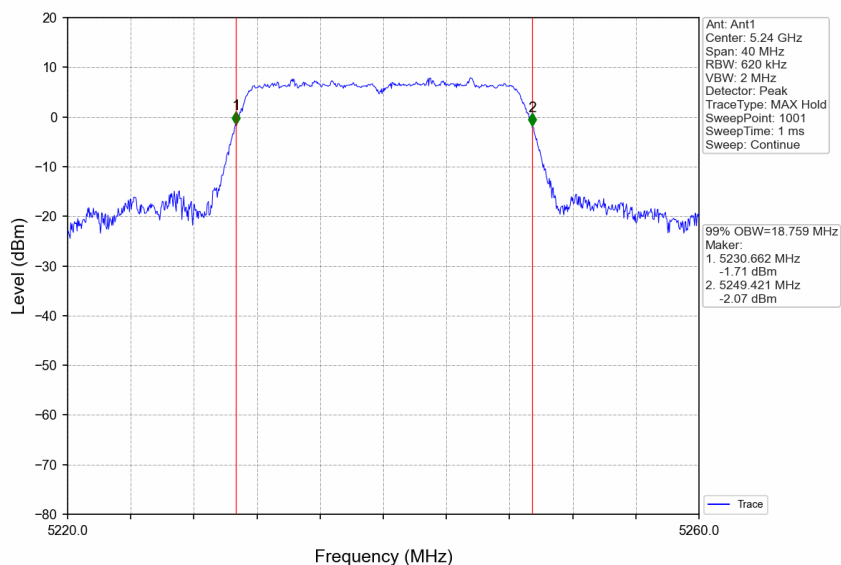
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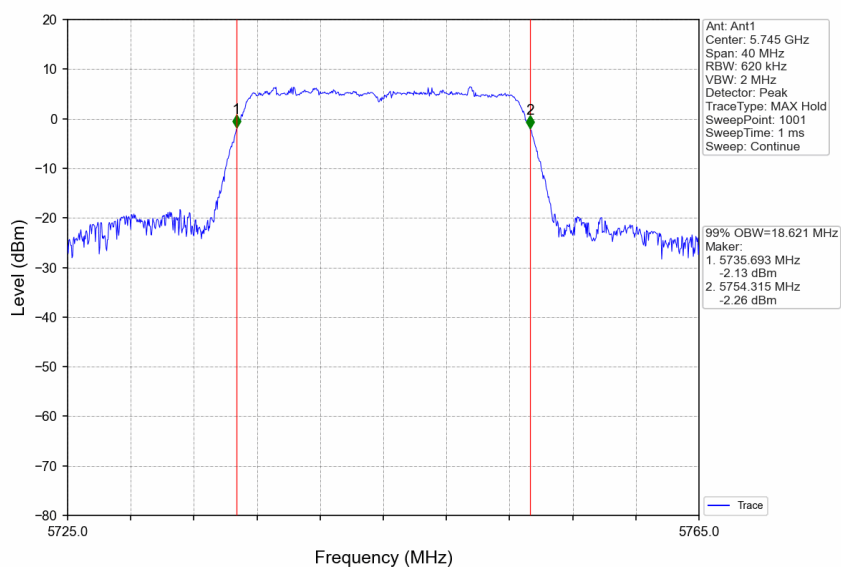
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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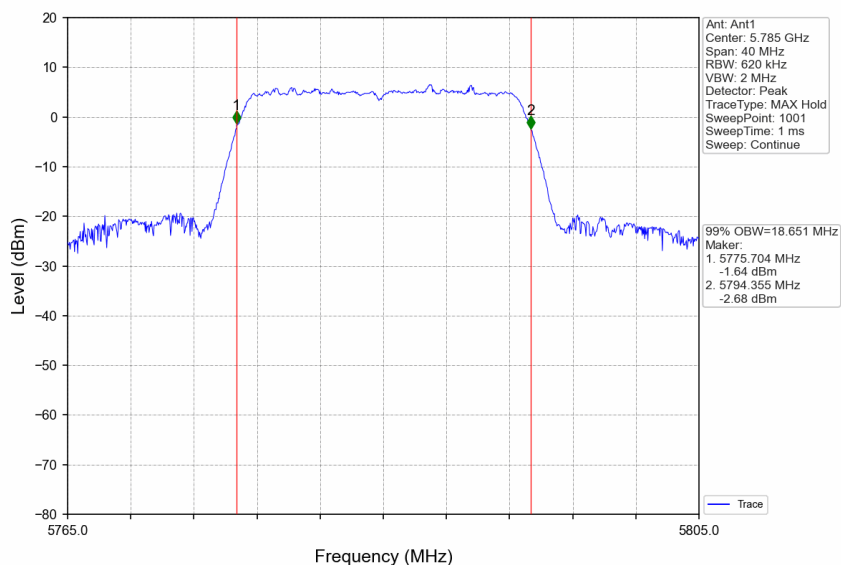
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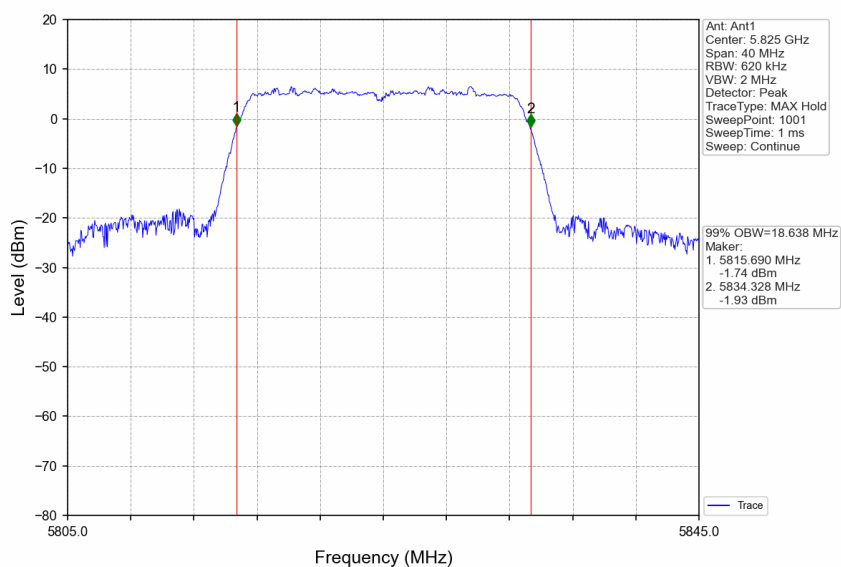
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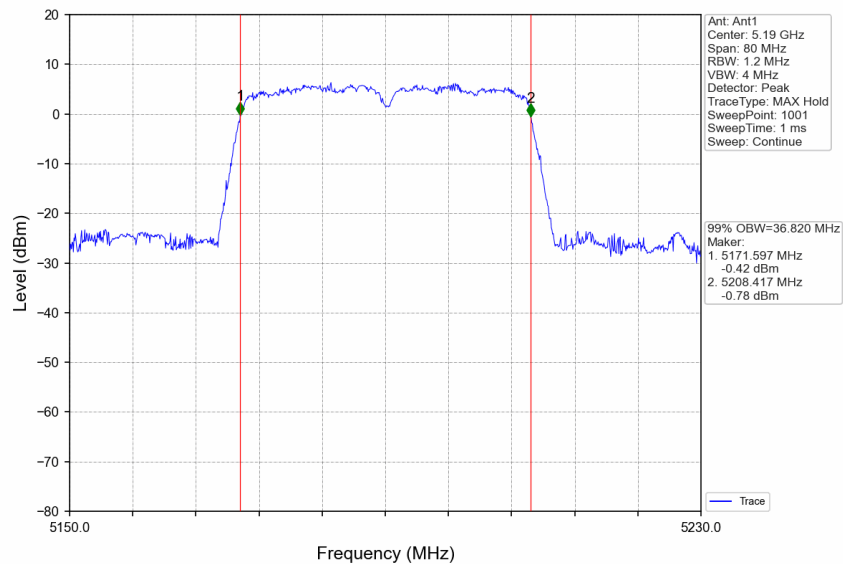
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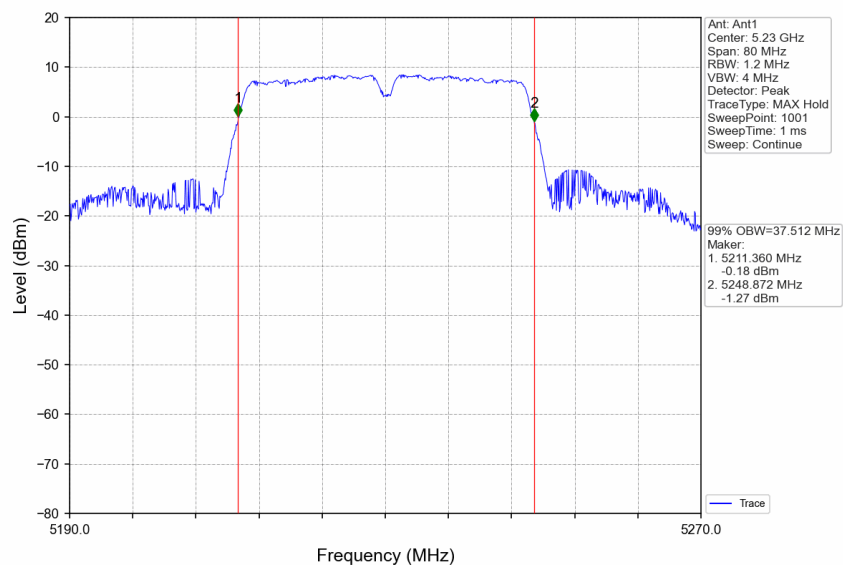
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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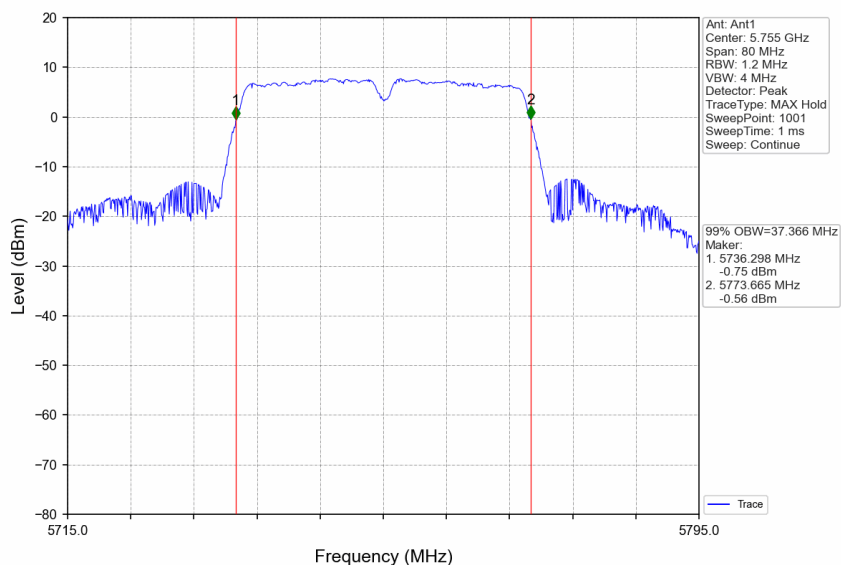
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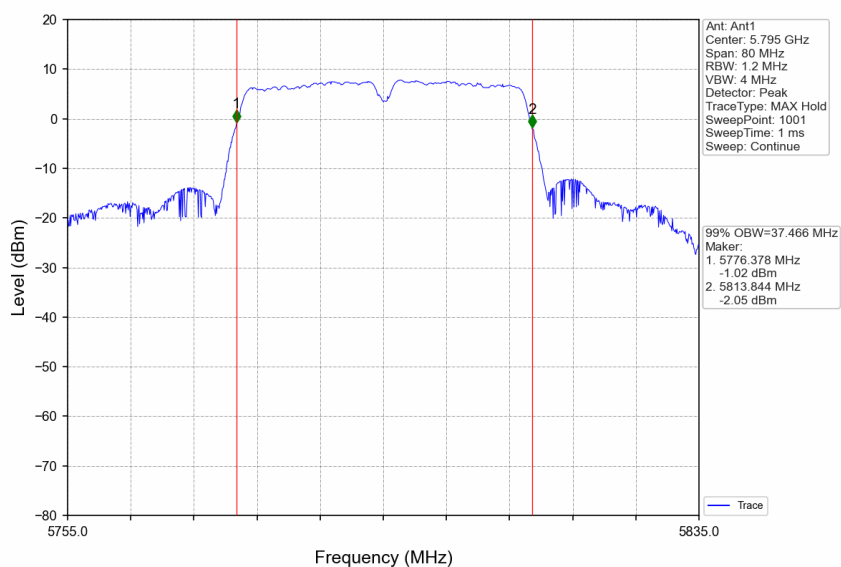
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11a	SISO	5745	1	16.844	≥ 0.5	Pass
		5785	1	16.865	≥ 0.5	Pass
		5825	1	16.773	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.955	≥ 0.5	Pass
		5785	1	17.967	≥ 0.5	Pass
		5825	1	17.958	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	36.447	≥ 0.5	Pass
		5795	1	36.377	≥ 0.5	Pass



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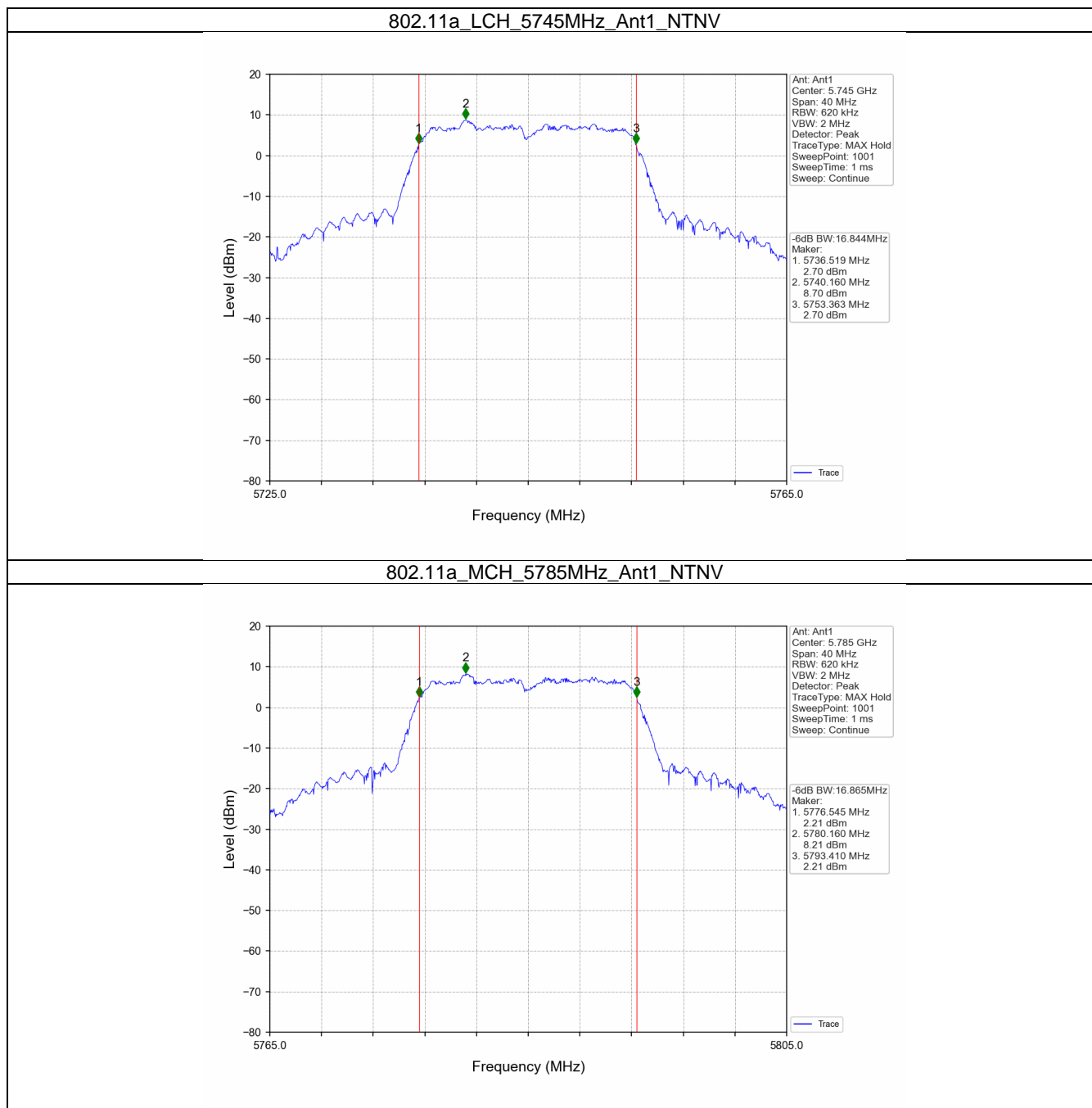
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2.2.2 Test Graph



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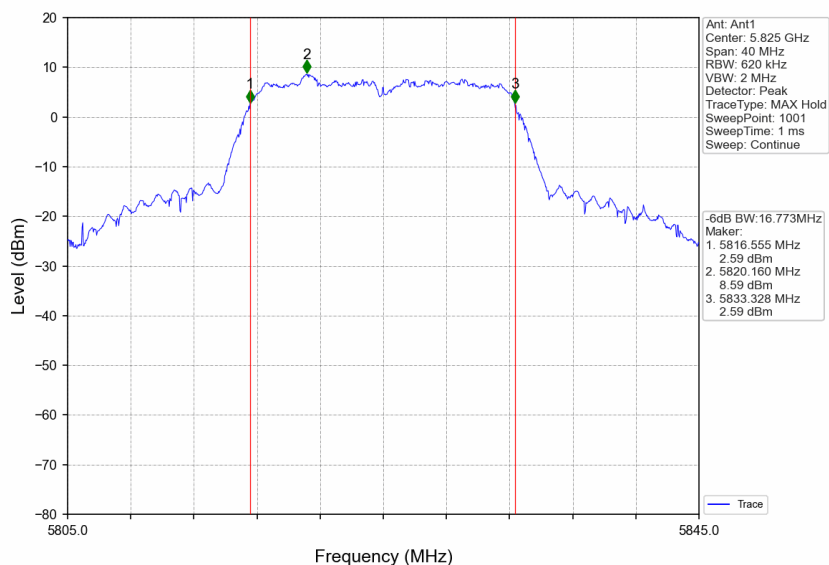
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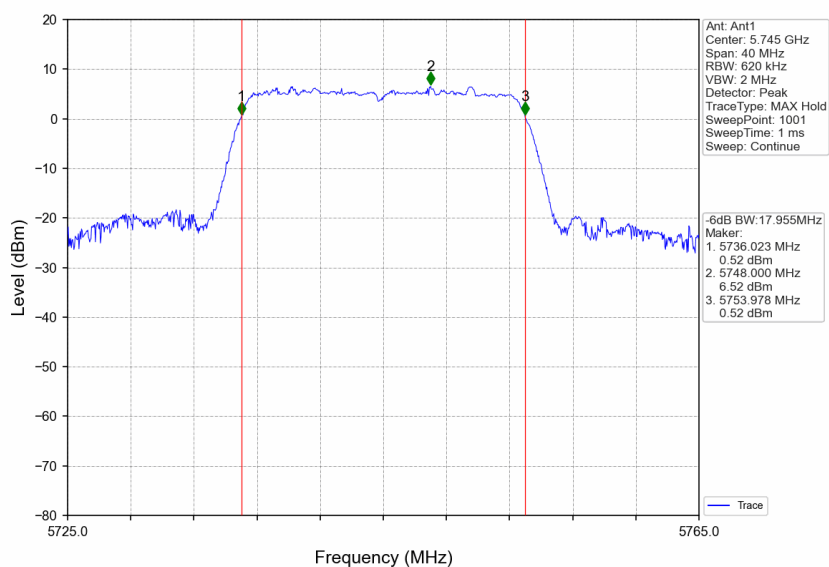
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802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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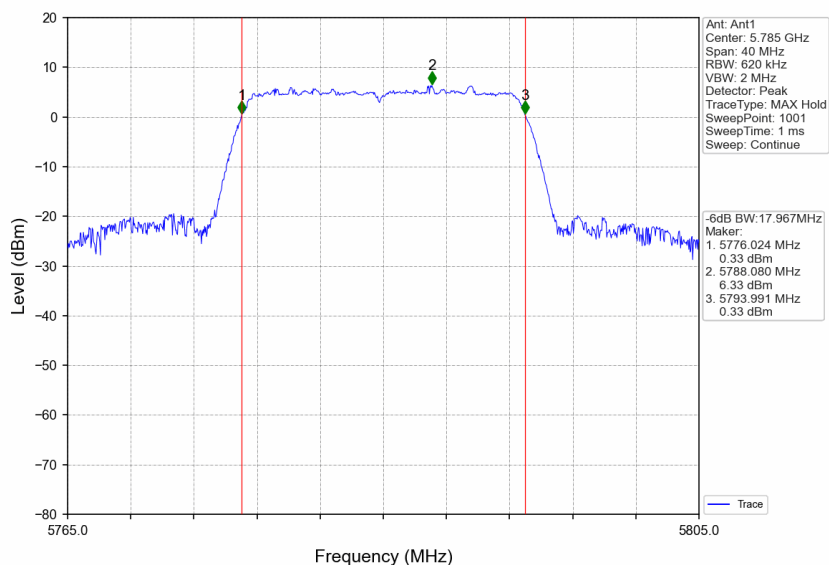
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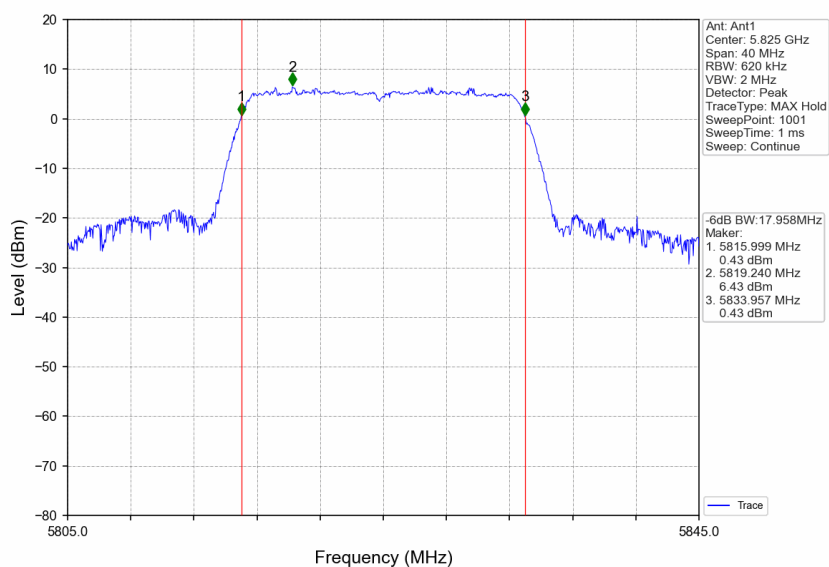
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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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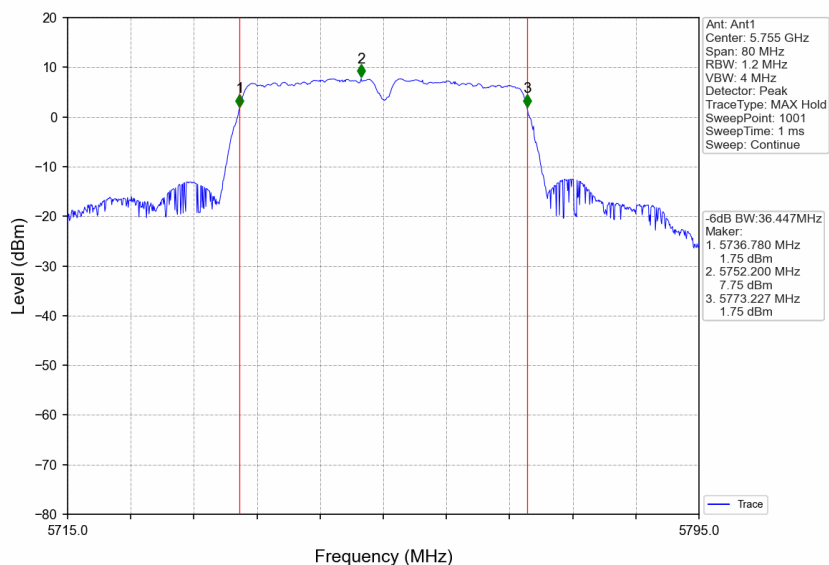
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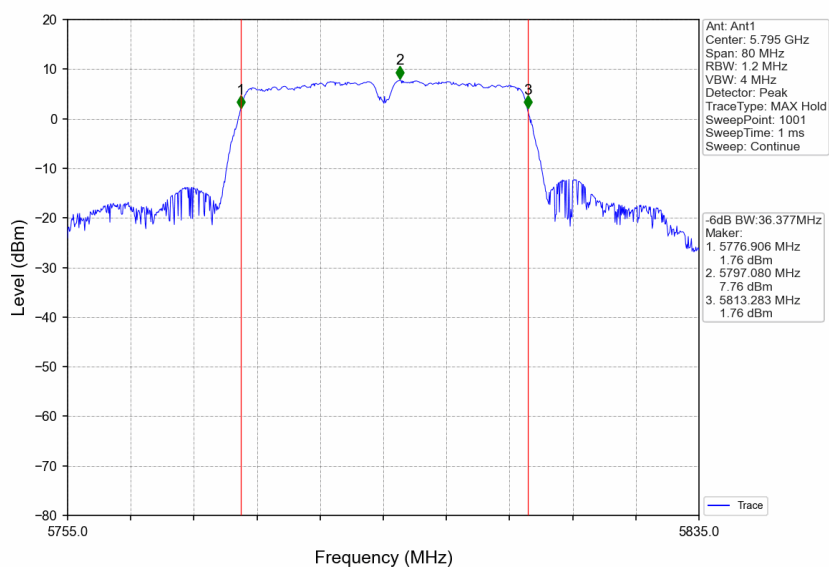
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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2.3 26dB BW

2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	26dB Bandwidth (MHz)	Verdict
				Result	
802.11a	SISO	5180	1	35.954	Pass
		5200	1	34.991	Pass
		5240	1	34.689	Pass
802.11n (HT20)	SISO	5180	1	38.640	Pass
		5200	1	39.209	Pass
		5240	1	33.052	Pass
802.11n (HT40)	SISO	5190	1	41.401	Pass
		5230	1	75.517	Pass



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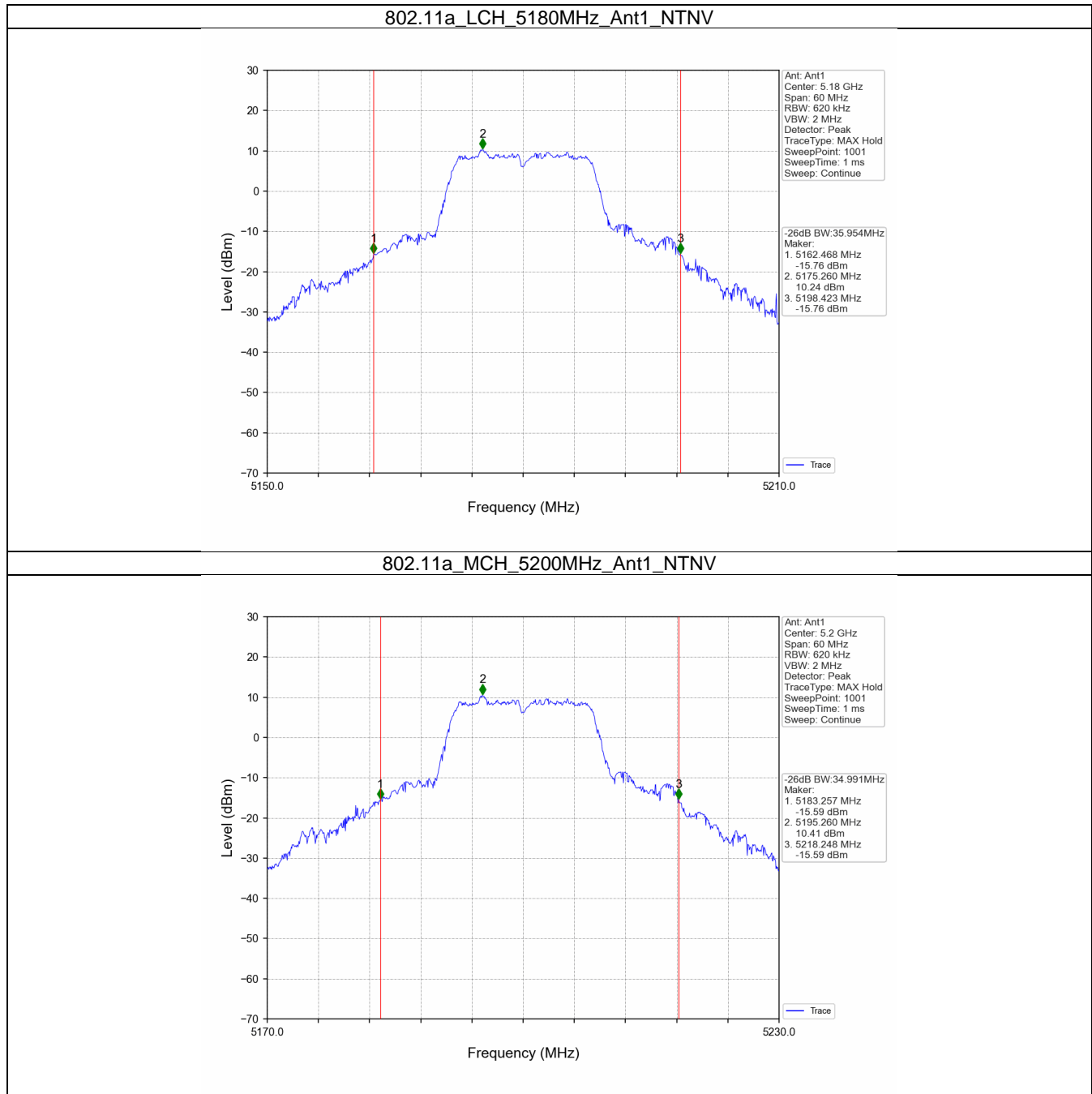
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2.3.2 Test Graph



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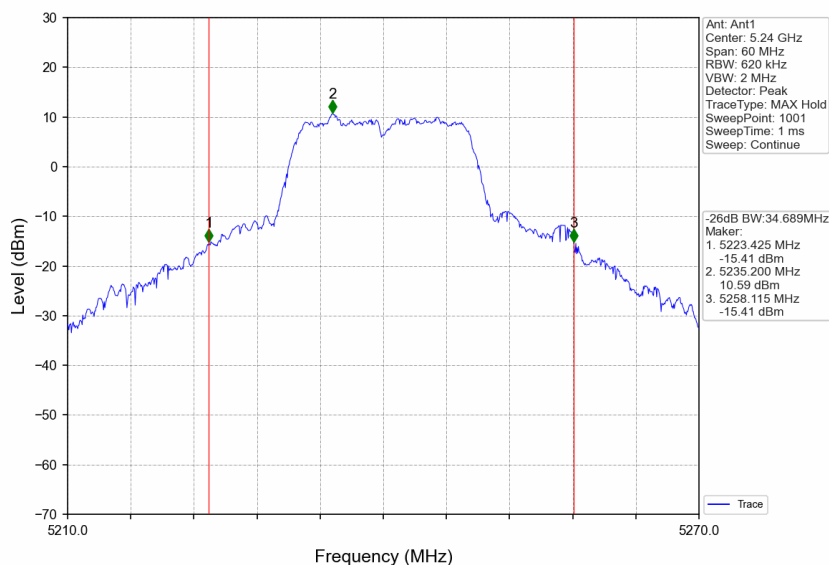
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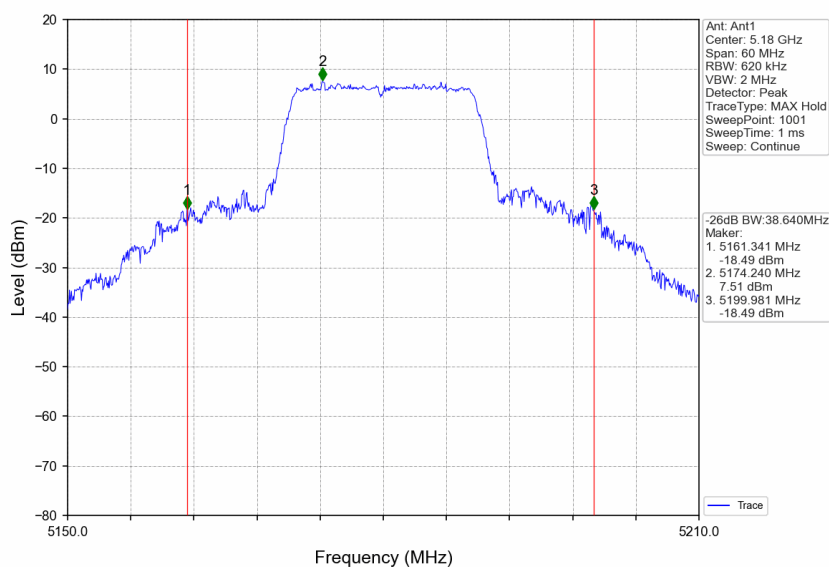
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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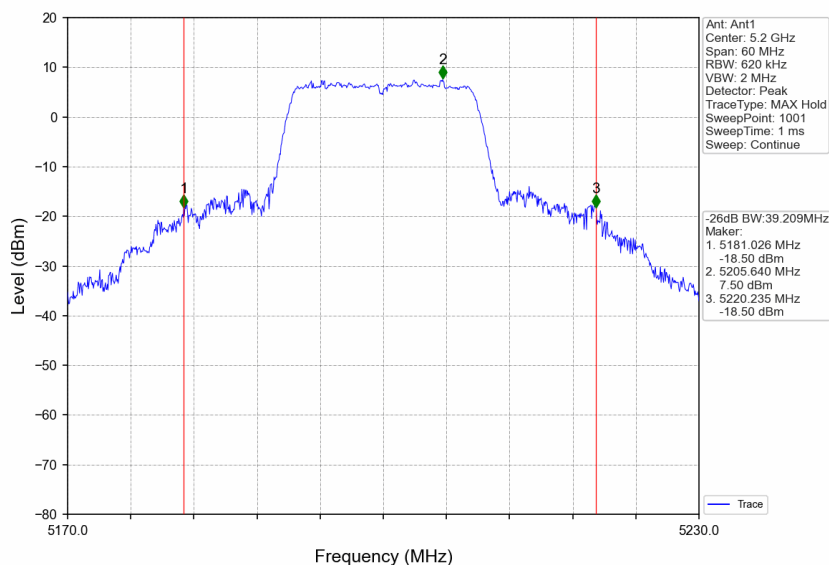
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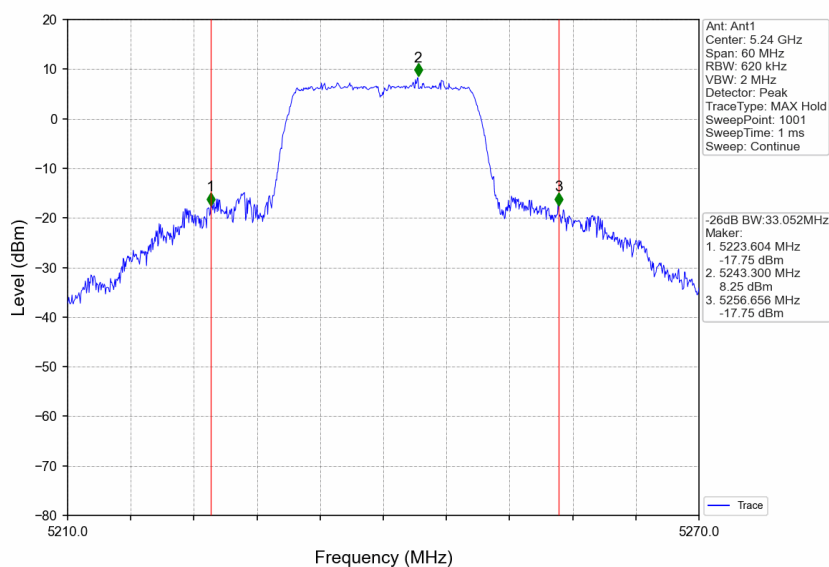
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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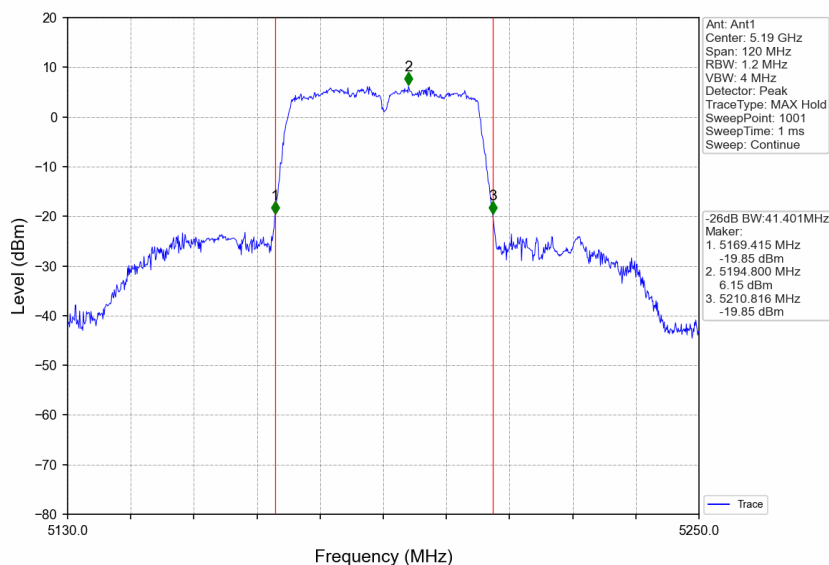
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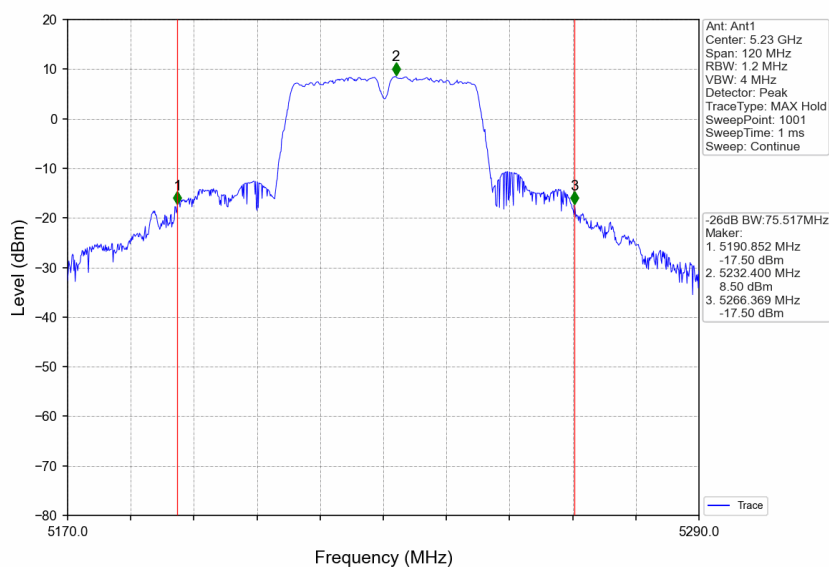
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
802.11a	SISO	5180	15.61	<=30.00	Pass
		5200	15.60	<=30.00	Pass
		5240	15.82	<=30.00	Pass
		5745	13.73	<=30.00	Pass
		5785	13.40	<=30.00	Pass
		5825	13.64	<=30.00	Pass
802.11n (HT20)	SISO	5180	13.61	<=30.00	Pass
		5200	13.62	<=30.00	Pass
		5240	13.79	<=30.00	Pass
		5745	12.48	<=30.00	Pass
		5785	12.20	<=30.00	Pass
		5825	12.51	<=30.00	Pass
802.11n (HT40)	SISO	5190	10.88	<=30.00	Pass
		5230	13.63	<=30.00	Pass
		5755	12.84	<=30.00	Pass
		5795	12.83	<=30.00	Pass

Note1: Antenna Gain: Ant1: 2.50dBi;



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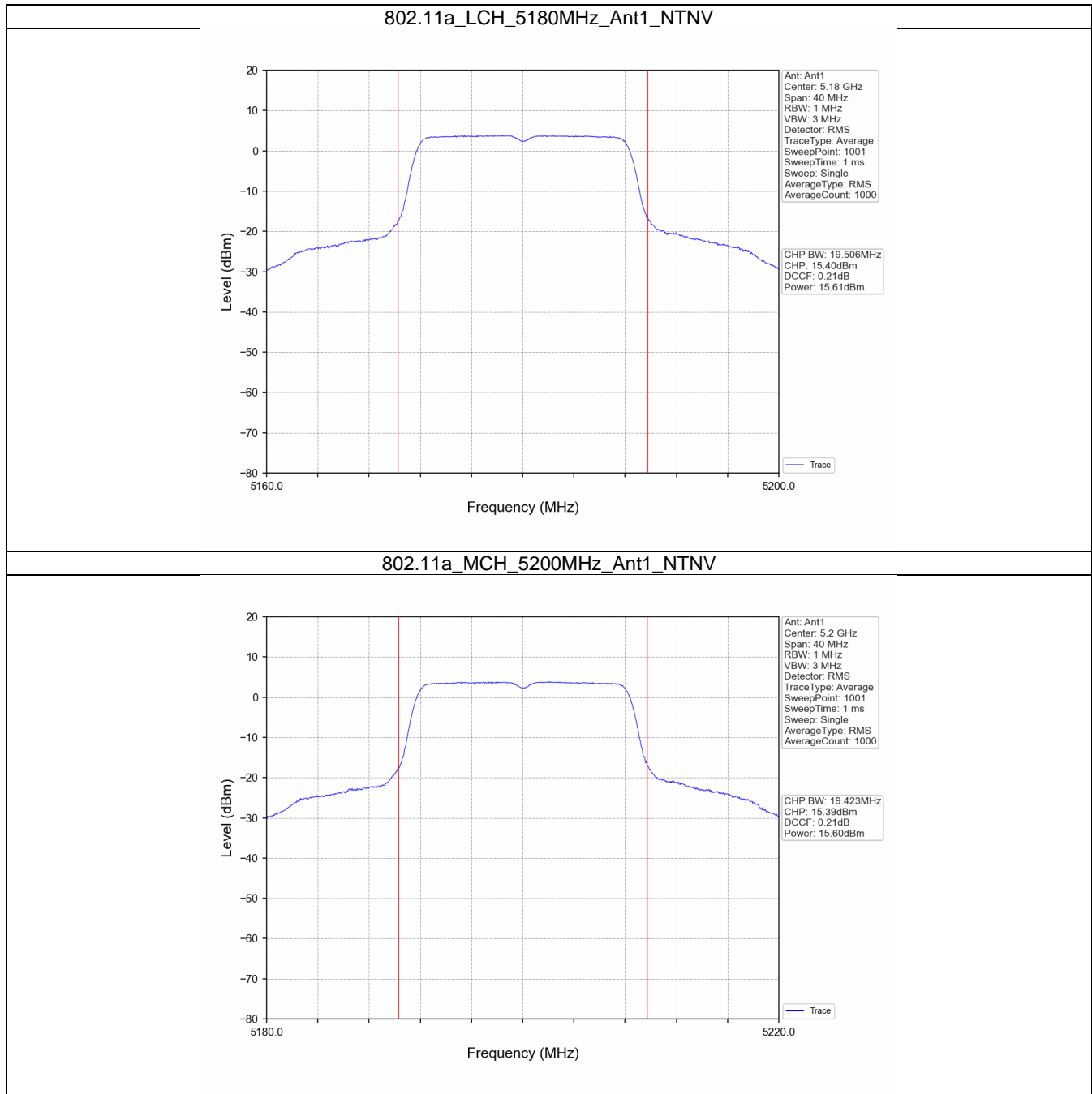
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3.1.2 Test Graph



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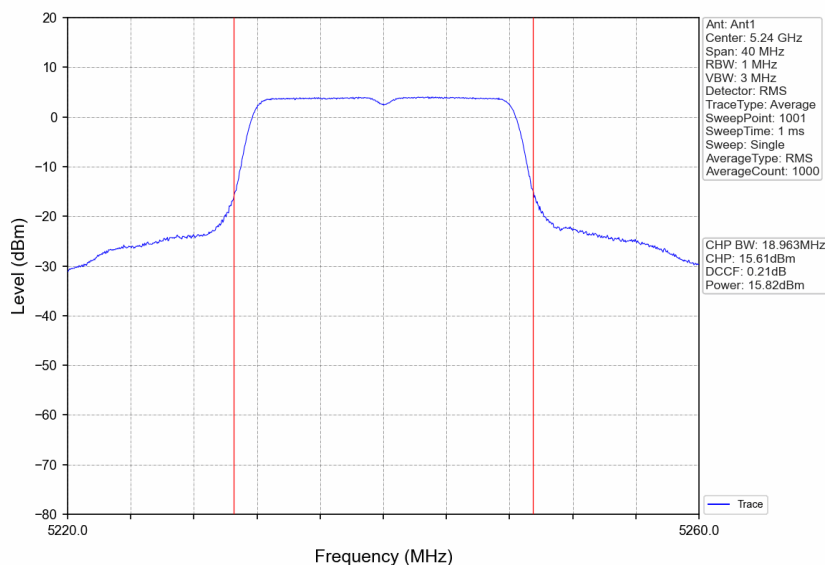
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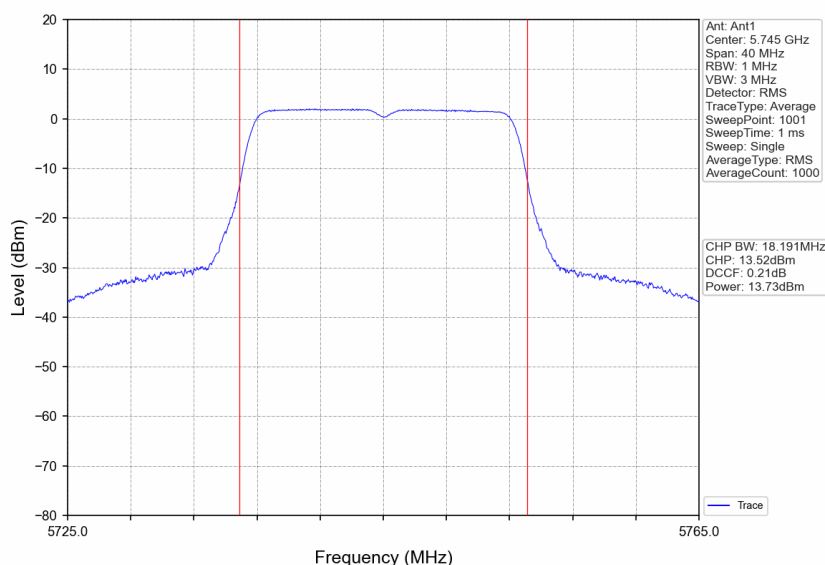
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



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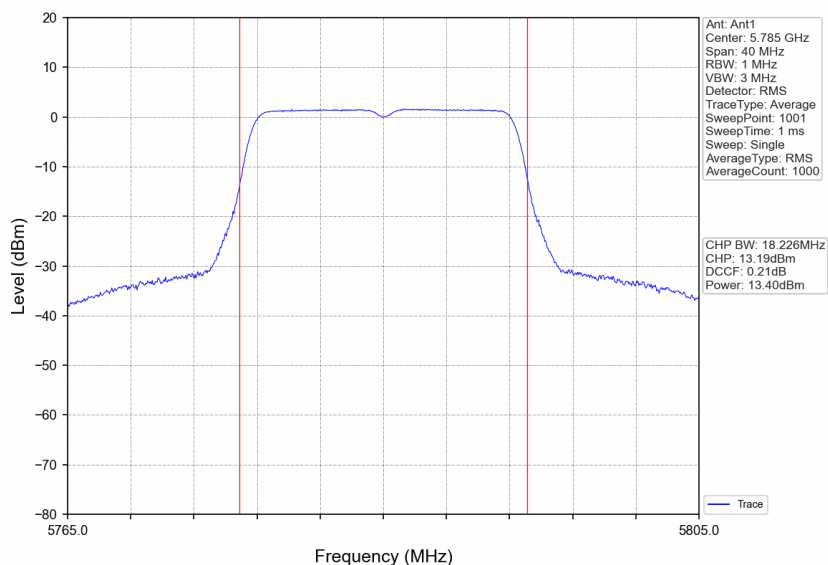
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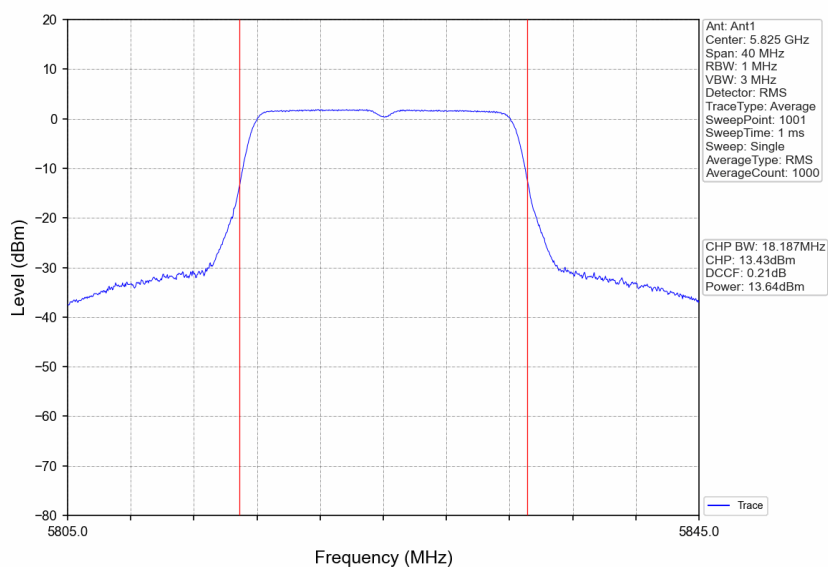
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



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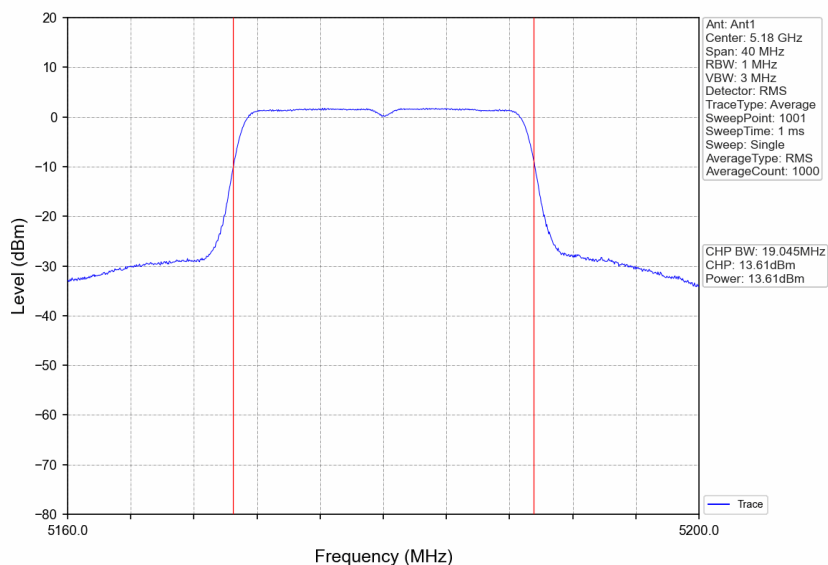
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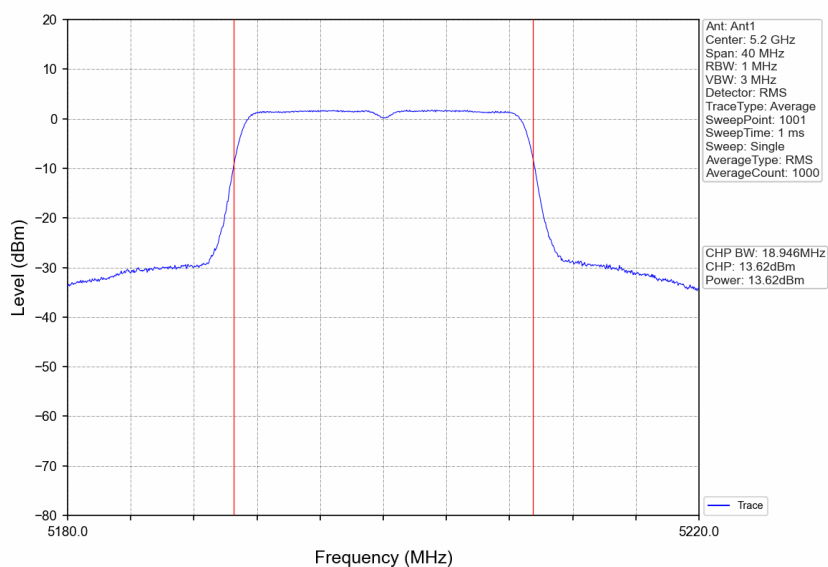
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



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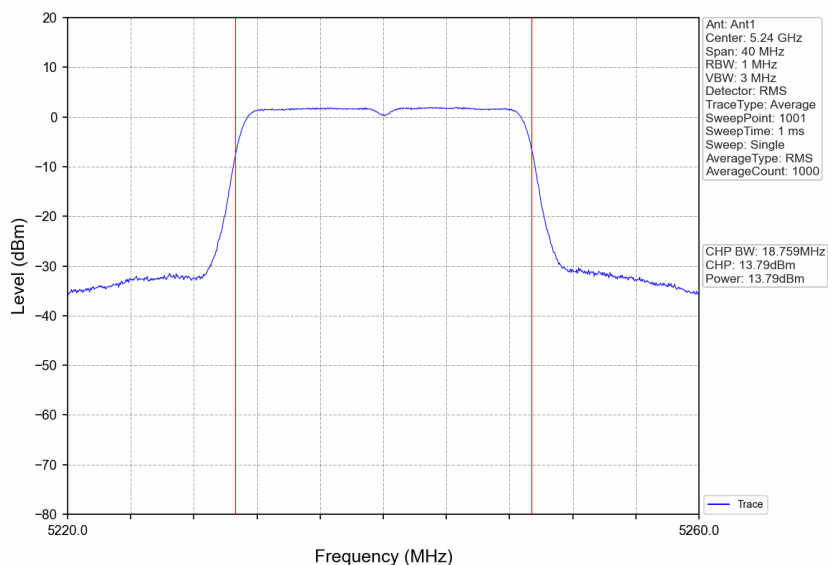
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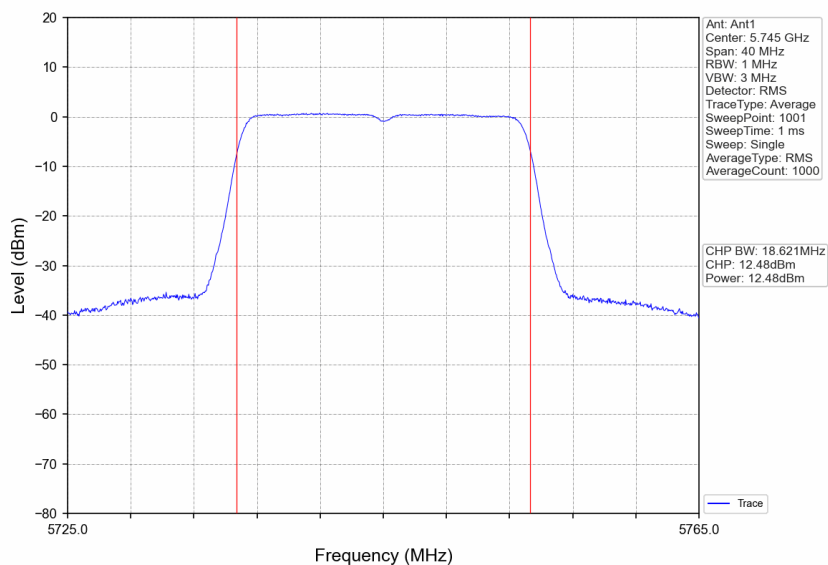
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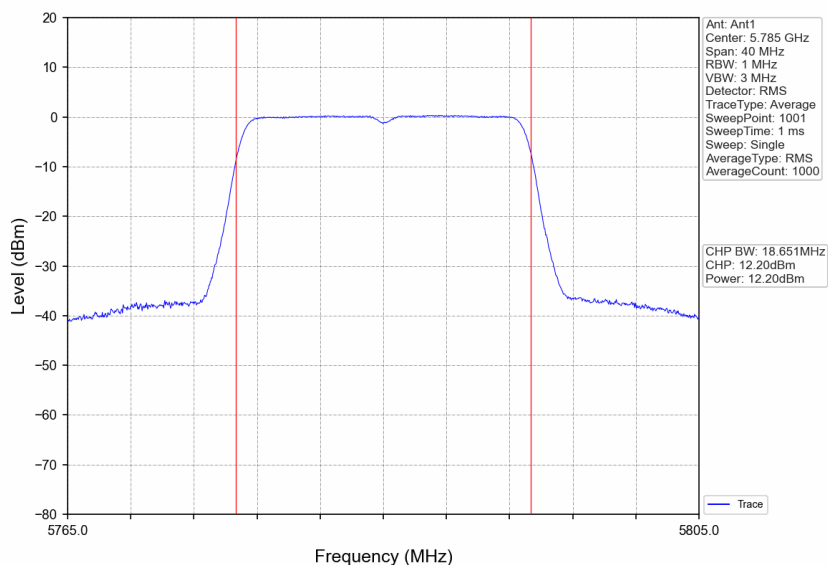
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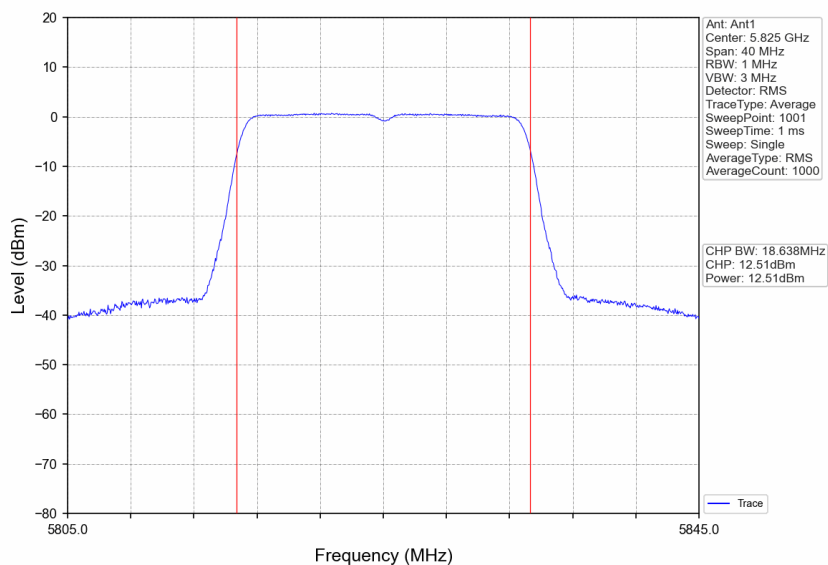
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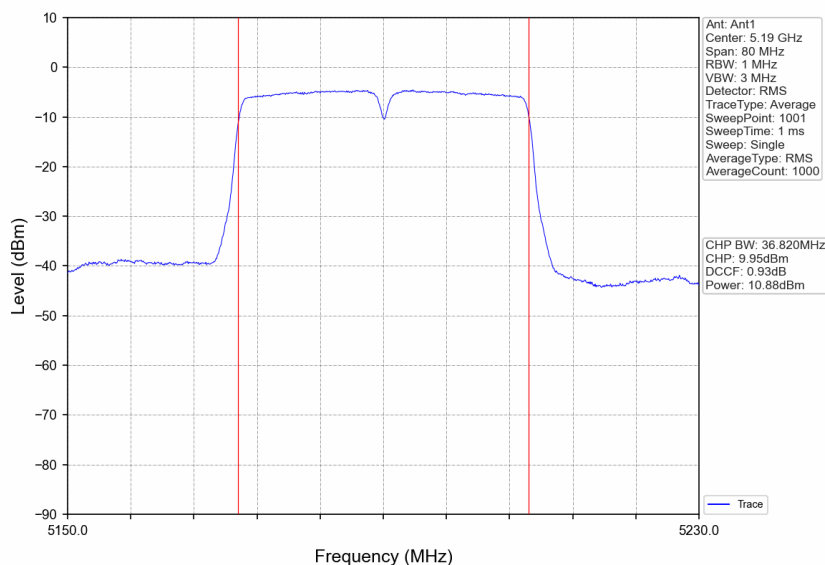
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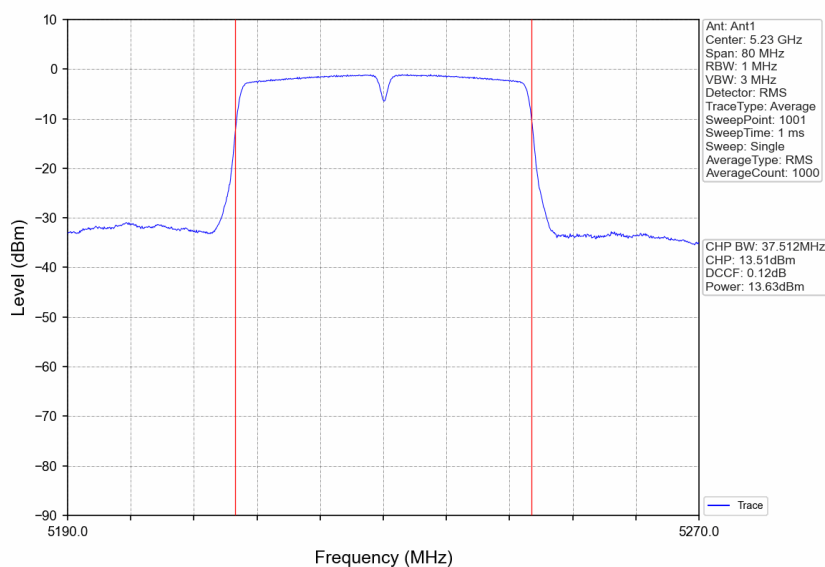
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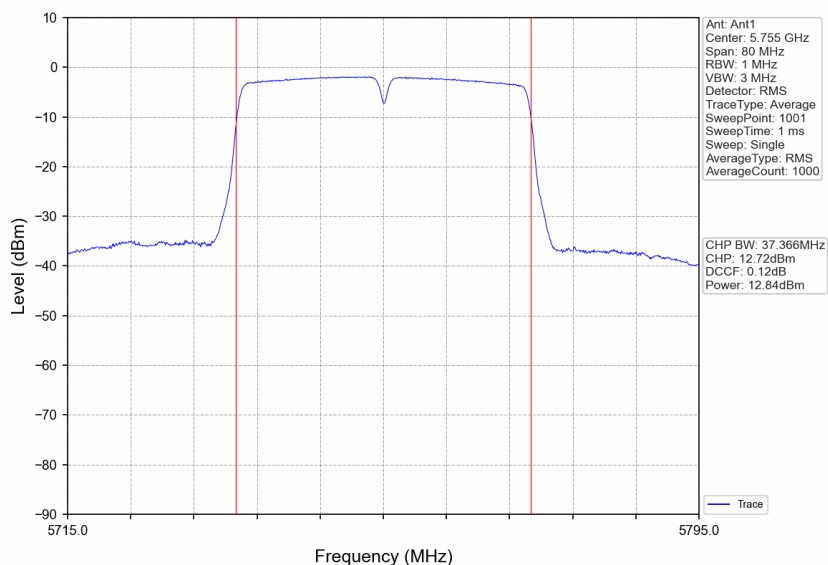
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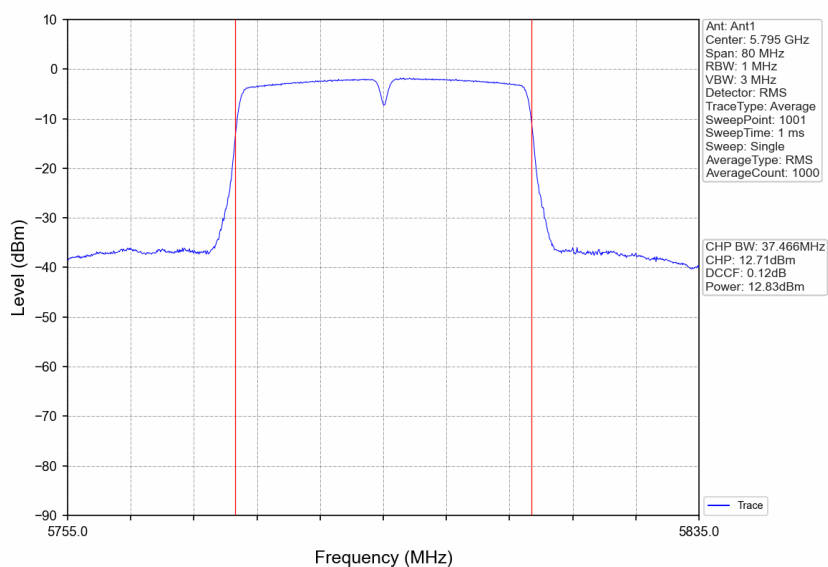
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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			Ant1	Limit	
802.11a	SISO	5180	3.99	<=17.00	Pass
		5200	3.99	<=17.00	Pass
		5240	4.21	<=17.00	Pass
802.11n (HT20)	SISO	5180	1.81	<=17.00	Pass
		5200	1.76	<=17.00	Pass
		5240	2.03	<=17.00	Pass
802.11n (HT40)	SISO	5190	-3.49	<=17.00	Pass
		5230	-0.96	<=17.00	Pass

Note1: Antenna Gain: Ant1: 2.50dBi;



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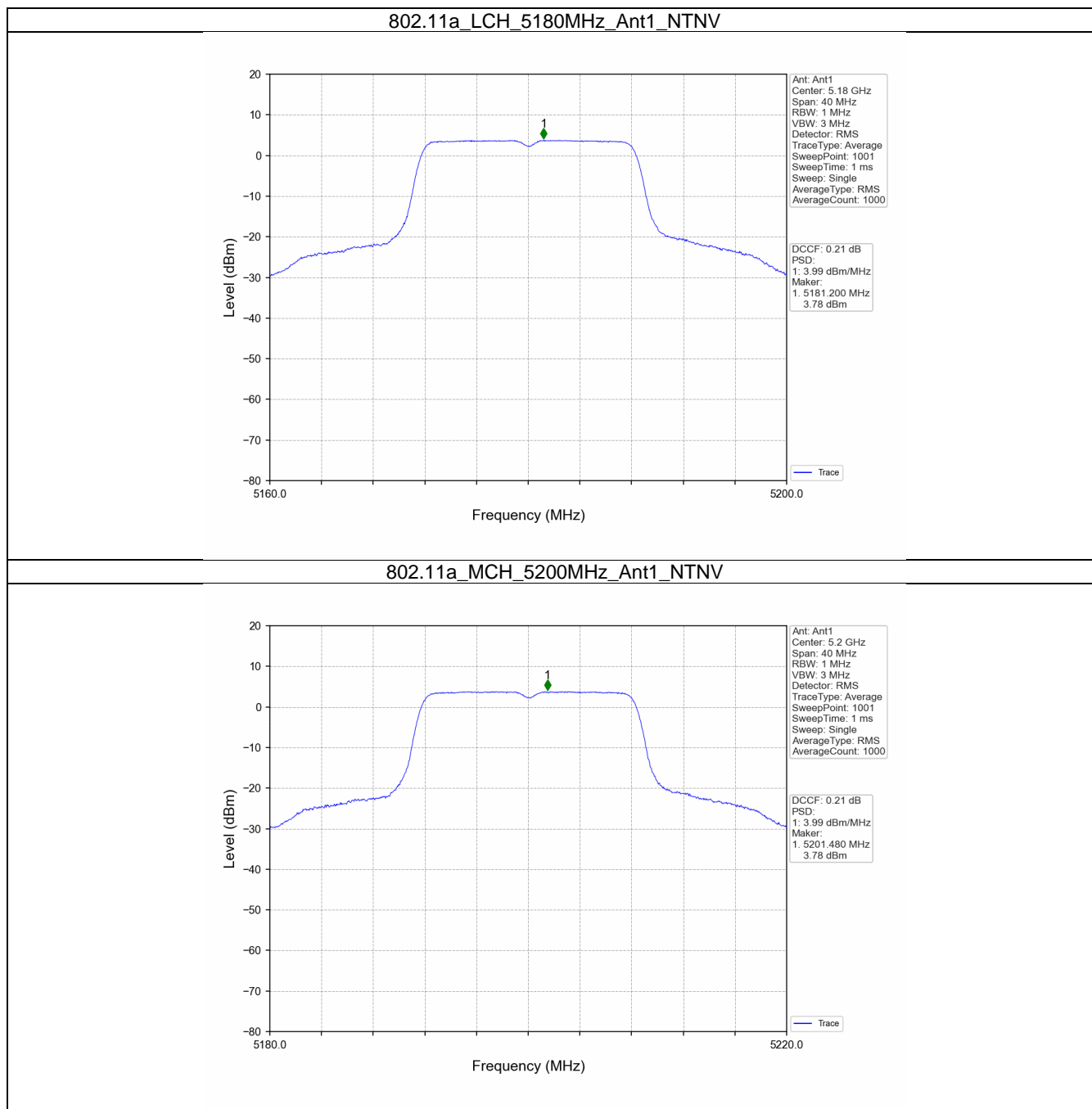
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4.1.2 Test Graph



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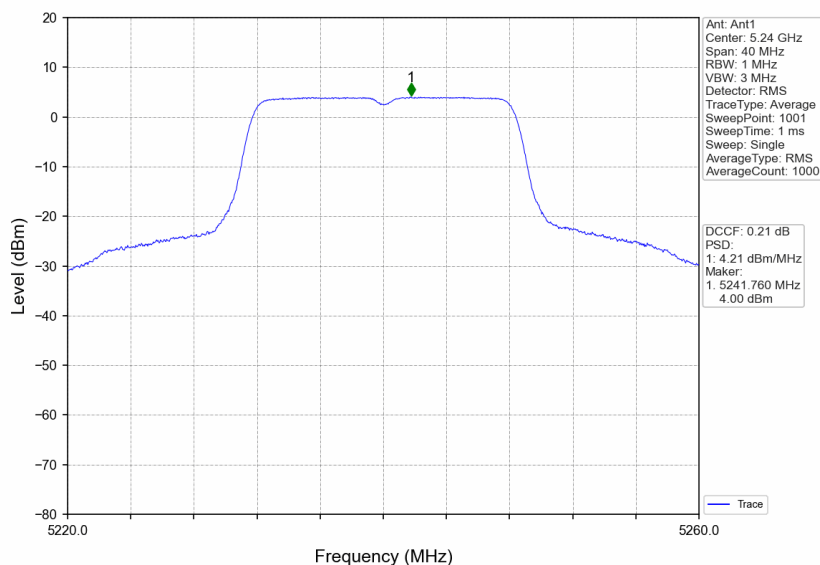
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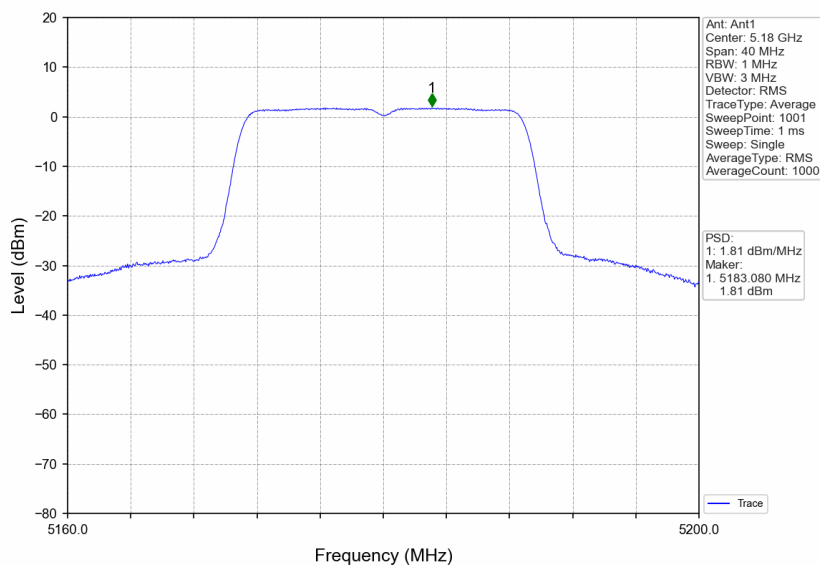
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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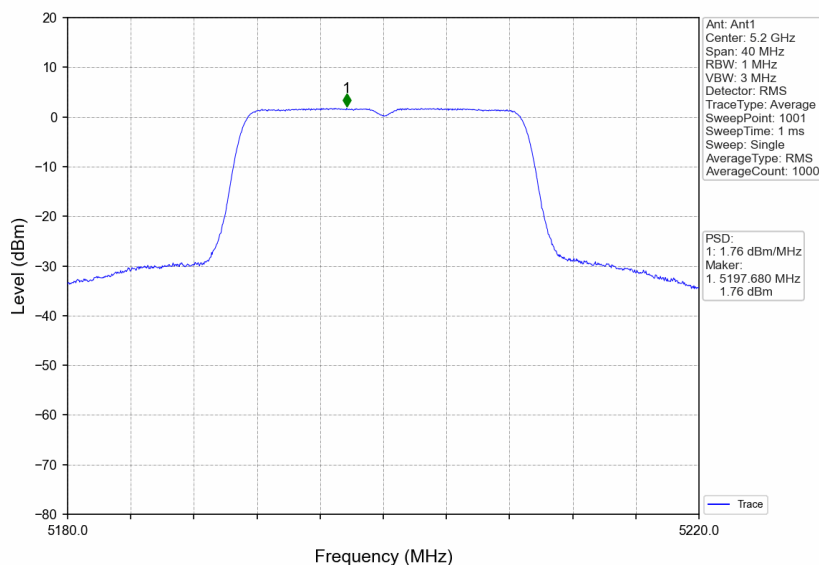
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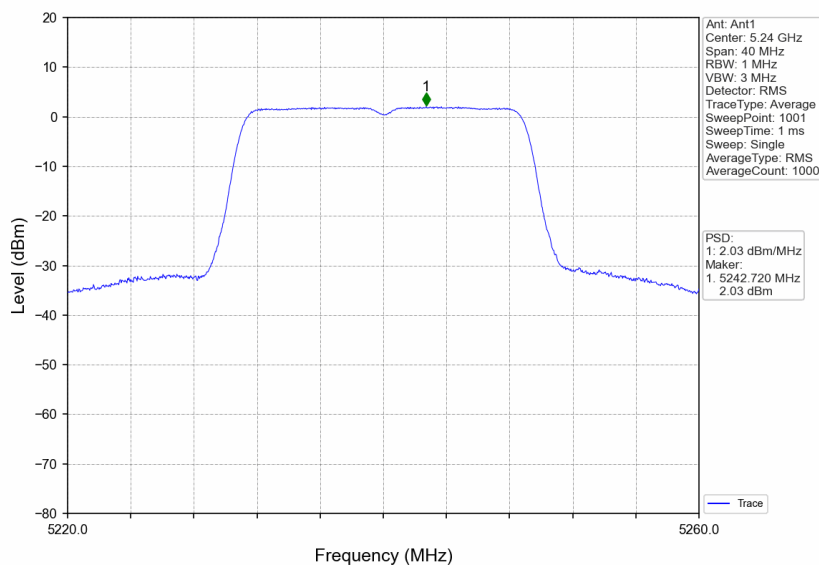
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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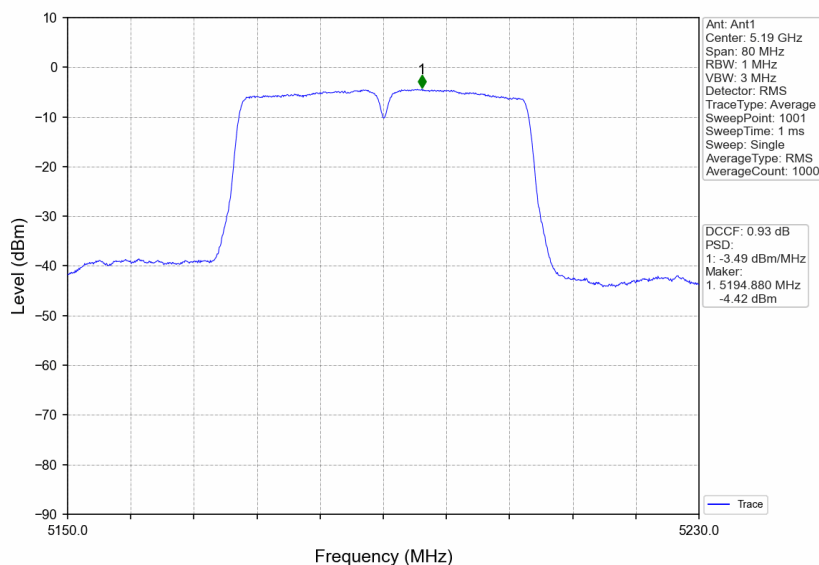
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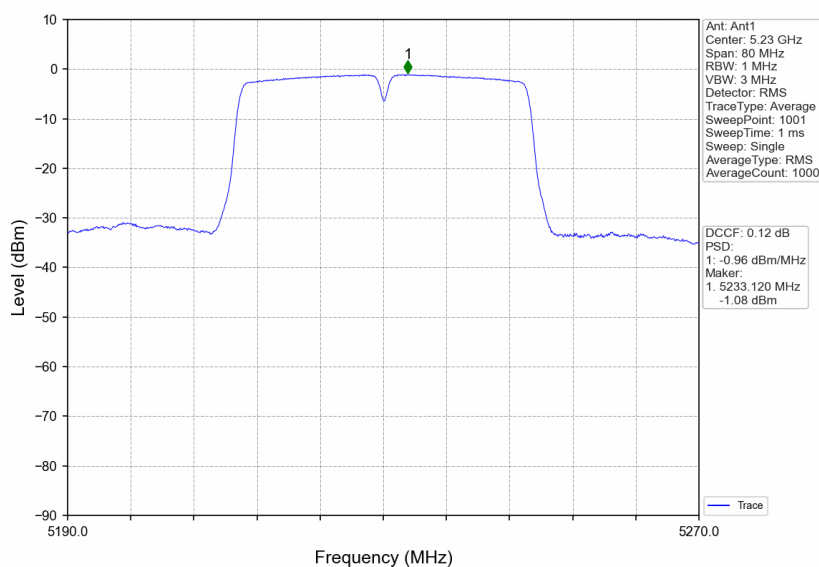
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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4.2 PSD-Band3

4.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/500kHz)		Verdict
			Ant1	Limit	
802.11a	SISO	5745	-0.81	<=30	Pass
		5785	-1.20	<=30	Pass
		5825	-0.96	<=30	Pass
802.11n (HT20)	SISO	5745	-2.29	<=30	Pass
		5785	-2.45	<=30	Pass
		5825	-2.28	<=30	Pass
802.11n (HT40)	SISO	5755	-4.74	<=30	Pass
		5795	-4.76	<=30	Pass

Note1: Antenna Gain: Ant1: 2.50dBi;



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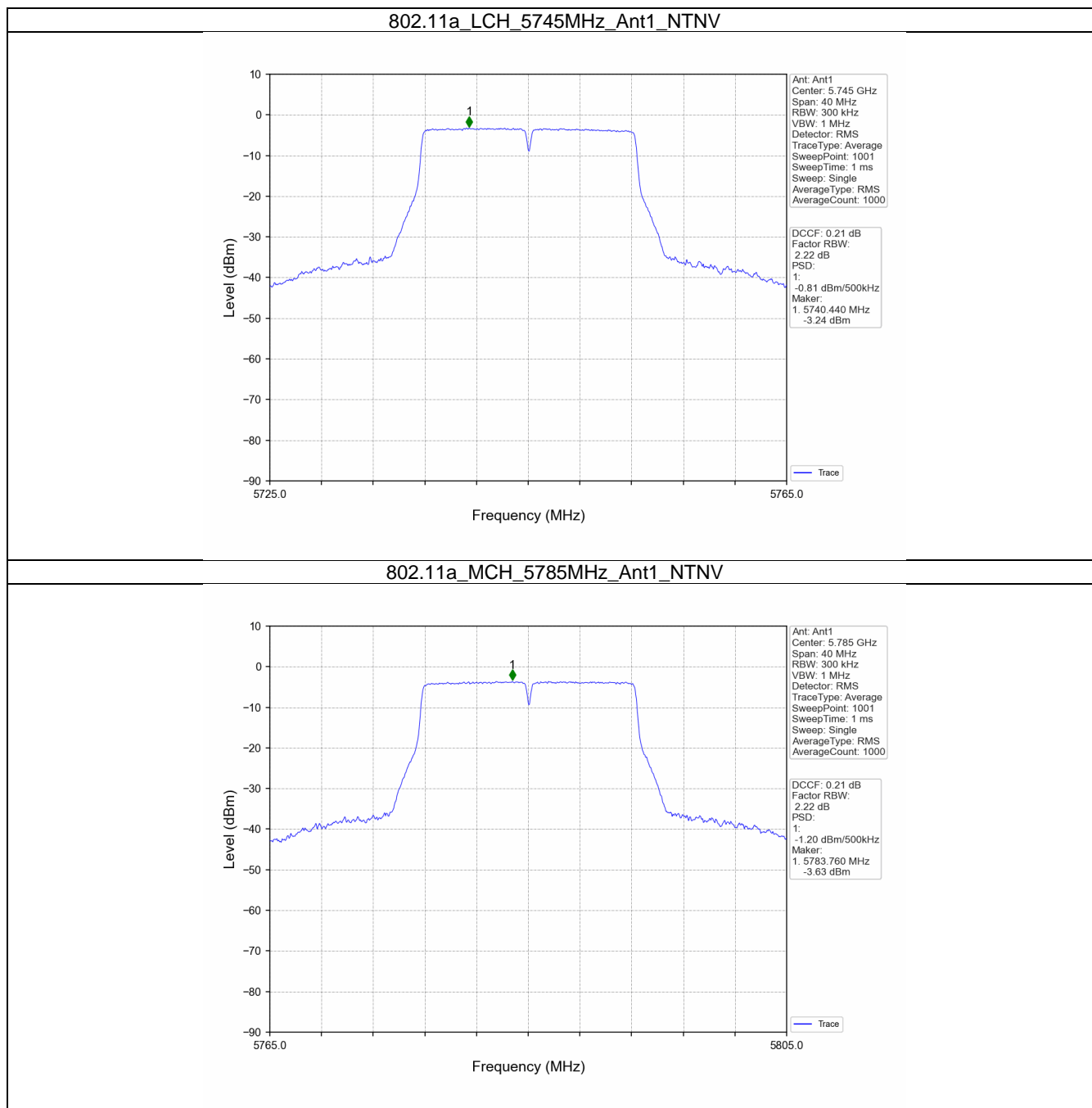
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4.2.2 Test Graph



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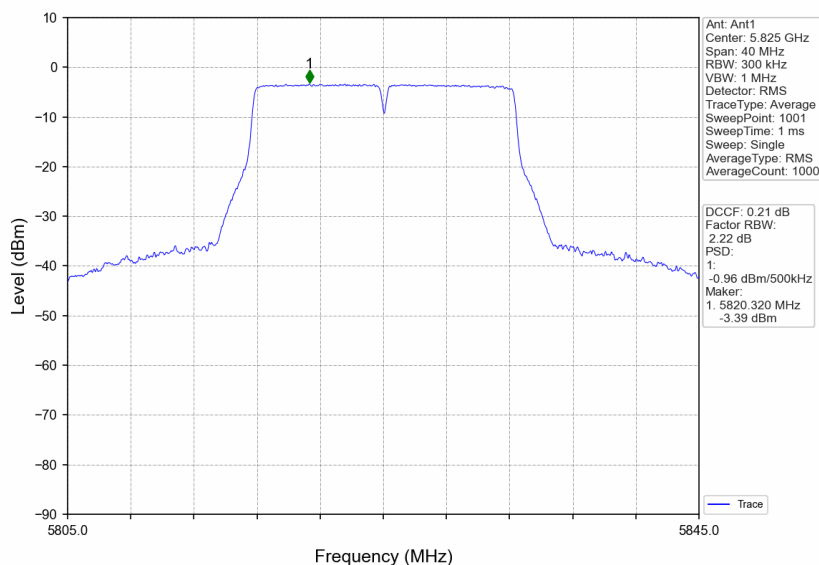
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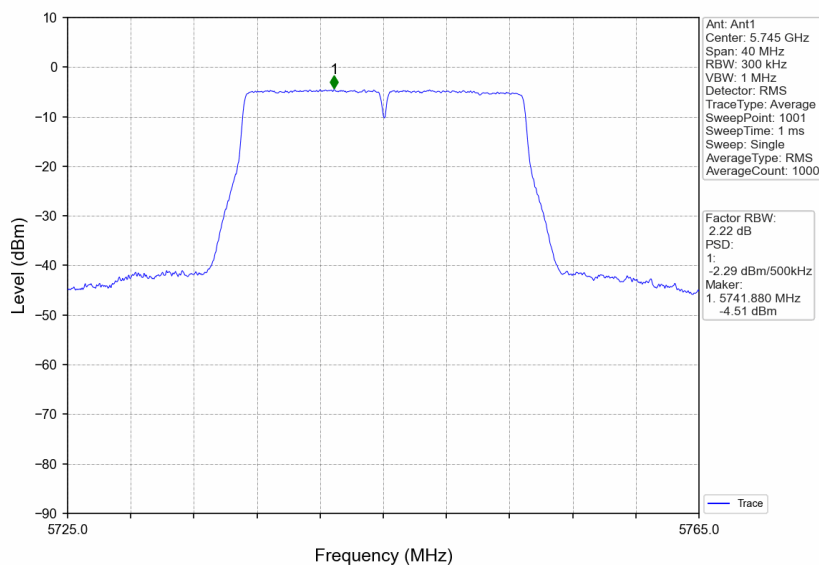
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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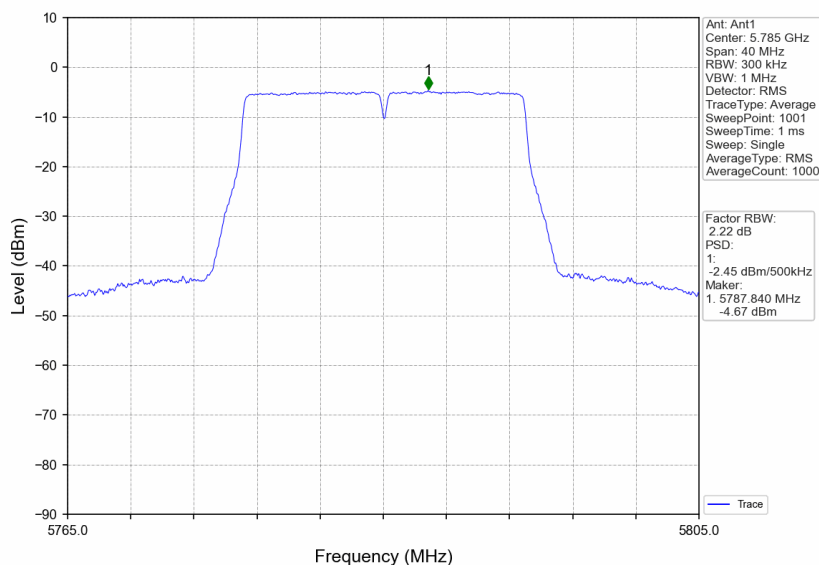
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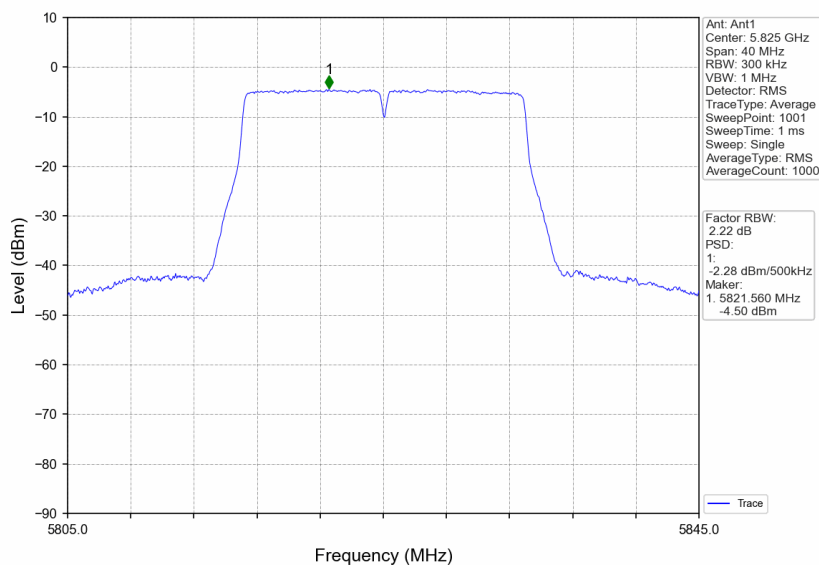
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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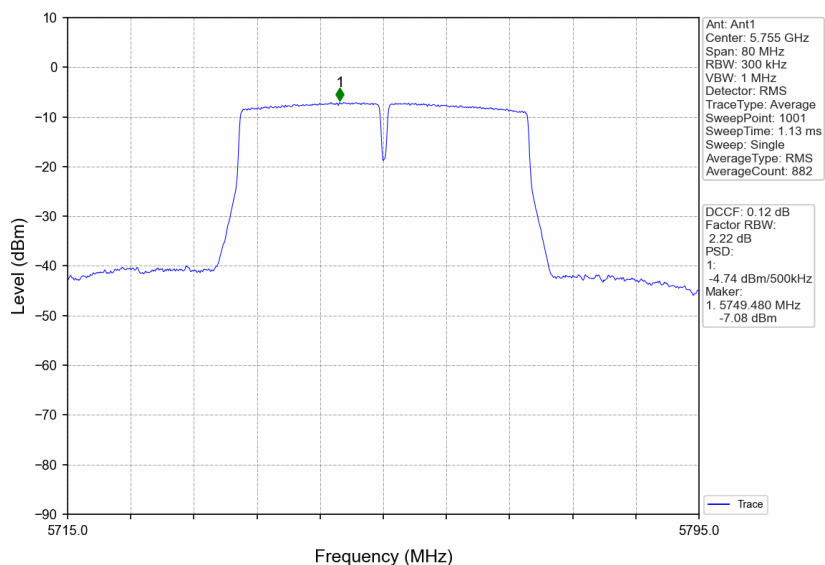
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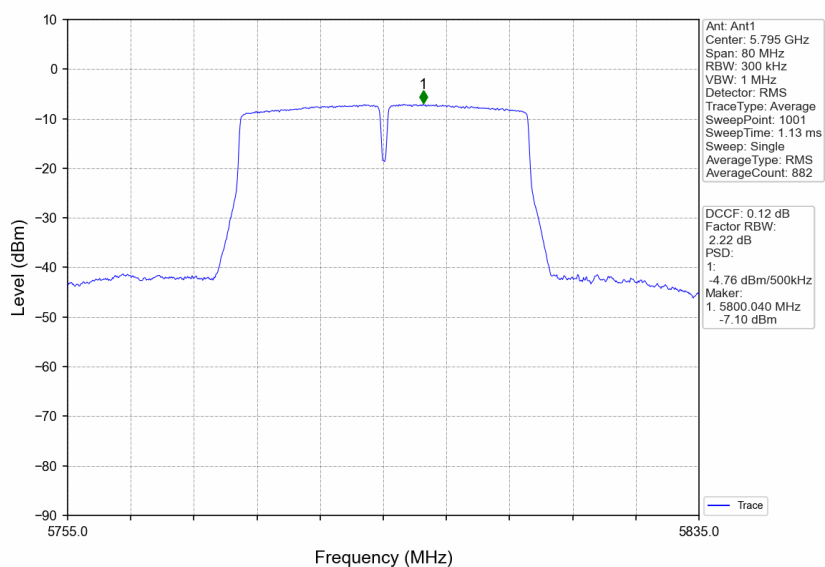
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	Temperature (°C)	Voltage (VDC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	10.20	5180.000	5150 to 5250	Pass
				12.00	5179.980	5150 to 5250	Pass
				13.80	5179.980	5150 to 5250	Pass
			-30	12.00	5179.980	5150 to 5250	Pass
			-20	12.00	5180.020	5150 to 5250	Pass
			-10	12.00	5180.040	5150 to 5250	Pass
			0	12.00	5179.980	5150 to 5250	Pass
			10	12.00	5180.020	5150 to 5250	Pass
			30	12.00	5180.000	5150 to 5250	Pass
			40	12.00	5180.000	5150 to 5250	Pass
			50	12.00	5179.980	5150 to 5250	Pass
		5200	20	10.20	5200.020	5150 to 5250	Pass
				12.00	5200.000	5150 to 5250	Pass
				13.80	5200.060	5150 to 5250	Pass
			-30	12.00	5200.020	5150 to 5250	Pass
			-20	12.00	5200.020	5150 to 5250	Pass
			-10	12.00	5200.080	5150 to 5250	Pass
			0	12.00	5199.980	5150 to 5250	Pass
			10	12.00	5200.040	5150 to 5250	Pass
			30	12.00	5200.000	5150 to 5250	Pass
			40	12.00	5200.020	5150 to 5250	Pass
			50	12.00	5200.060	5150 to 5250	Pass
		5240	20	10.20	5240.020	5150 to 5250	Pass
				12.00	5240.040	5150 to 5250	Pass
				13.80	5240.000	5150 to 5250	Pass
			-30	12.00	5240.060	5150 to 5250	Pass
			-20	12.00	5240.060	5150 to 5250	Pass
			-10	12.00	5240.020	5150 to 5250	Pass
			0	12.00	5240.080	5150 to 5250	Pass
			10	12.00	5240.000	5150 to 5250	Pass
			30	12.00	5240.040	5150 to 5250	Pass
			40	12.00	5240.080	5150 to 5250	Pass
			50	12.00	5240.040	5150 to 5250	Pass
		5745	20	10.20	5745.020	5725 to 5850	Pass
				12.00	5745.040	5725 to 5850	Pass
				13.80	5744.980	5725 to 5850	Pass
			-30	12.00	5745.000	5725 to 5850	Pass
			-20	12.00	5745.000	5725 to 5850	Pass
			-10	12.00	5745.000	5725 to 5850	Pass
			0	12.00	5744.980	5725 to 5850	Pass
			10	12.00	5745.040	5725 to 5850	Pass
			30	12.00	5745.020	5725 to 5850	Pass
			40	12.00	5744.980	5725 to 5850	Pass
			50	12.00	5745.000	5725 to 5850	Pass
		5785	20	10.20	5785.080	5725 to 5850	Pass



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802.11n (HT20)	SISO	5825		12.00	5785.080	5725 to 5850	Pass
				13.80	5785.040	5725 to 5850	Pass
			-30	12.00	5785.060	5725 to 5850	Pass
			-20	12.00	5785.020	5725 to 5850	Pass
			-10	12.00	5785.040	5725 to 5850	Pass
			0	12.00	5785.060	5725 to 5850	Pass
			10	12.00	5785.040	5725 to 5850	Pass
			30	12.00	5785.020	5725 to 5850	Pass
			40	12.00	5785.020	5725 to 5850	Pass
			50	12.00	5785.080	5725 to 5850	Pass
			20	10.20	5825.040	5725 to 5850	Pass
				12.00	5825.020	5725 to 5850	Pass
				13.80	5825.020	5725 to 5850	Pass
			-30	12.00	5825.020	5725 to 5850	Pass
			-20	12.00	5825.040	5725 to 5850	Pass
			-10	12.00	5824.980	5725 to 5850	Pass
			0	12.00	5825.040	5725 to 5850	Pass
			10	12.00	5825.040	5725 to 5850	Pass
			30	12.00	5824.980	5725 to 5850	Pass
			40	12.00	5825.000	5725 to 5850	Pass
			50	12.00	5825.060	5725 to 5850	Pass
		5180	20	10.20	5180.040	5150 to 5250	Pass
				12.00	5180.040	5150 to 5250	Pass
				13.80	5180.040	5150 to 5250	Pass
			-30	12.00	5180.020	5150 to 5250	Pass
			-20	12.00	5180.060	5150 to 5250	Pass
			-10	12.00	5180.040	5150 to 5250	Pass
			0	12.00	5180.040	5150 to 5250	Pass
			10	12.00	5180.060	5150 to 5250	Pass
			30	12.00	5180.040	5150 to 5250	Pass
			40	12.00	5180.060	5150 to 5250	Pass
			50	12.00	5180.020	5150 to 5250	Pass
		5200	20	10.20	5200.060	5150 to 5250	Pass
				12.00	5200.060	5150 to 5250	Pass
				13.80	5200.060	5150 to 5250	Pass
			-30	12.00	5200.060	5150 to 5250	Pass
			-20	12.00	5200.040	5150 to 5250	Pass
			-10	12.00	5200.060	5150 to 5250	Pass
			0	12.00	5200.040	5150 to 5250	Pass
			10	12.00	5200.060	5150 to 5250	Pass
			30	12.00	5200.040	5150 to 5250	Pass
			40	12.00	5200.060	5150 to 5250	Pass
			50	12.00	5200.080	5150 to 5250	Pass
		5240	20	10.20	5240.060	5150 to 5250	Pass
				12.00	5240.040	5150 to 5250	Pass
				13.80	5240.060	5150 to 5250	Pass
			-30	12.00	5240.060	5150 to 5250	Pass
			-20	12.00	5240.020	5150 to 5250	Pass
			-10	12.00	5240.080	5150 to 5250	Pass
			0	12.00	5240.020	5150 to 5250	Pass
			10	12.00	5240.040	5150 to 5250	Pass
			30	12.00	5240.040	5150 to 5250	Pass
			40	12.00	5240.060	5150 to 5250	Pass
			50	12.00	5240.060	5150 to 5250	Pass
		5745	20	10.20	5745.040	5725 to 5850	Pass

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802.11n (HT40)	SISO			12.00	5745.040	5725 to 5850	Pass
				13.80	5745.060	5725 to 5850	Pass
			-30	12.00	5745.040	5725 to 5850	Pass
			-20	12.00	5745.060	5725 to 5850	Pass
			-10	12.00	5745.040	5725 to 5850	Pass
			0	12.00	5745.060	5725 to 5850	Pass
			10	12.00	5745.000	5725 to 5850	Pass
			30	12.00	5745.040	5725 to 5850	Pass
			40	12.00	5745.020	5725 to 5850	Pass
			50	12.00	5745.020	5725 to 5850	Pass
		5785		10.20	5785.100	5725 to 5850	Pass
			20	12.00	5785.040	5725 to 5850	Pass
				13.80	5785.060	5725 to 5850	Pass
			-30	12.00	5785.040	5725 to 5850	Pass
			-20	12.00	5785.040	5725 to 5850	Pass
			-10	12.00	5785.040	5725 to 5850	Pass
			0	12.00	5785.060	5725 to 5850	Pass
			10	12.00	5785.060	5725 to 5850	Pass
			30	12.00	5785.060	5725 to 5850	Pass
			40	12.00	5785.020	5725 to 5850	Pass
			50	12.00	5785.040	5725 to 5850	Pass
		5825		10.20	5825.080	5725 to 5850	Pass
			20	12.00	5825.060	5725 to 5850	Pass
				13.80	5825.040	5725 to 5850	Pass
			-30	12.00	5825.020	5725 to 5850	Pass
			-20	12.00	5825.060	5725 to 5850	Pass
			-10	12.00	5825.020	5725 to 5850	Pass
			0	12.00	5825.040	5725 to 5850	Pass
			10	12.00	5825.020	5725 to 5850	Pass
			30	12.00	5825.040	5725 to 5850	Pass
			40	12.00	5825.060	5725 to 5850	Pass
			50	12.00	5825.040	5725 to 5850	Pass
802.11n (HT40)	SISO	5190		10.20	5190.160	5150 to 5250	Pass
			20	12.00	5190.120	5150 to 5250	Pass
				13.80	5190.080	5150 to 5250	Pass
			-30	12.00	5190.120	5150 to 5250	Pass
			-20	12.00	5190.120	5150 to 5250	Pass
			-10	12.00	5190.120	5150 to 5250	Pass
			0	12.00	5190.080	5150 to 5250	Pass
			10	12.00	5190.080	5150 to 5250	Pass
			30	12.00	5190.120	5150 to 5250	Pass
			40	12.00	5190.120	5150 to 5250	Pass
			50	12.00	5190.040	5150 to 5250	Pass
		5230		10.20	5230.160	5150 to 5250	Pass
			20	12.00	5230.080	5150 to 5250	Pass
				13.80	5230.080	5150 to 5250	Pass
			-30	12.00	5230.120	5150 to 5250	Pass
			-20	12.00	5230.080	5150 to 5250	Pass
			-10	12.00	5230.120	5150 to 5250	Pass
			0	12.00	5230.080	5150 to 5250	Pass
			10	12.00	5230.080	5150 to 5250	Pass
			30	12.00	5230.040	5150 to 5250	Pass
			40	12.00	5230.080	5150 to 5250	Pass
			50	12.00	5230.040	5150 to 5250	Pass
		5755	20	10.20	5755.080	5725 to 5850	Pass

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				12.00	5755.080	5725 to 5850	Pass
				13.80	5755.040	5725 to 5850	Pass
			-30	12.00	5755.080	5725 to 5850	Pass
			-20	12.00	5755.040	5725 to 5850	Pass
			-10	12.00	5755.040	5725 to 5850	Pass
			0	12.00	5755.080	5725 to 5850	Pass
			10	12.00	5755.080	5725 to 5850	Pass
			30	12.00	5755.080	5725 to 5850	Pass
			40	12.00	5755.040	5725 to 5850	Pass
			50	12.00	5755.080	5725 to 5850	Pass
		5795	20	10.20	5795.080	5725 to 5850	Pass
				12.00	5795.120	5725 to 5850	Pass
				13.80	5795.080	5725 to 5850	Pass
			-30	12.00	5795.080	5725 to 5850	Pass
			-20	12.00	5795.080	5725 to 5850	Pass
			-10	12.00	5795.080	5725 to 5850	Pass
			0	12.00	5795.080	5725 to 5850	Pass
			10	12.00	5795.080	5725 to 5850	Pass
			30	12.00	5795.080	5725 to 5850	Pass
			40	12.00	5795.120	5725 to 5850	Pass
			50	12.00	5795.080	5725 to 5850	Pass



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