

Appendix B for SHCR220500103002

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	2.025	2.526	80.17	0.96	0.03
		5200	2.024	2.526	80.13	0.96	0.03
		5240	2.025	2.526	80.17	0.96	0.03
		5745	2.024	2.526	80.13	0.96	0.03
		5785	2.024	2.526	80.13	0.96	0.03
802.11n (HT20)	SISO	5825	2.024	2.526	80.13	0.96	0.03
		5180	1.889	2.390	79.04	1.02	0.03
		5200	1.888	2.390	79.00	1.02	0.04
		5240	1.889	2.390	79.04	1.02	0.03
		5745	1.889	2.390	79.04	1.02	0.03
802.11n (HT40)	SISO	5785	1.889	2.390	79.04	1.02	0.03
		5825	1.889	2.391	79.00	1.02	0.04
		5190	0.929	1.430	64.97	1.87	0.03
		5230	0.929	1.430	64.97	1.87	0.03
		5755	0.928	1.430	64.90	1.88	0.03
		5795	0.929	1.430	64.97	1.87	0.03



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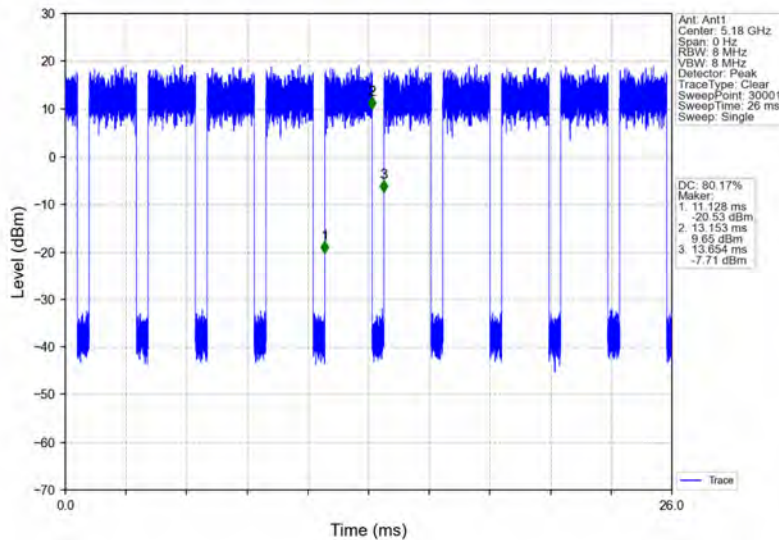
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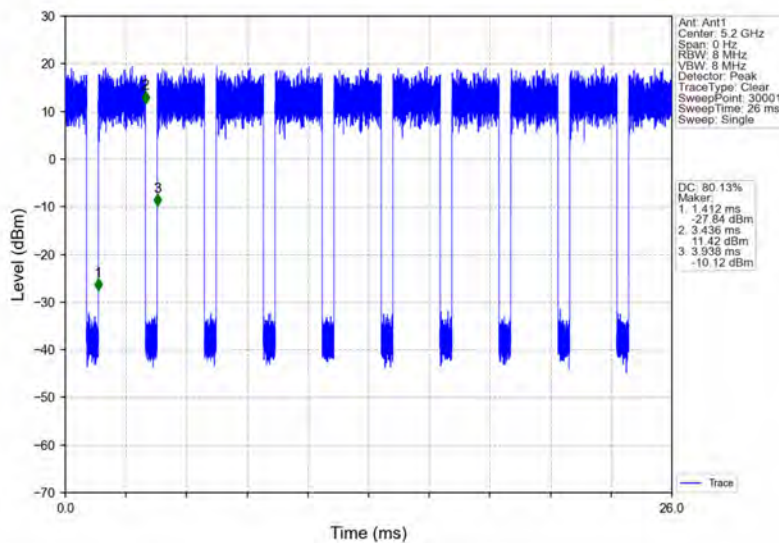
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1.1.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV



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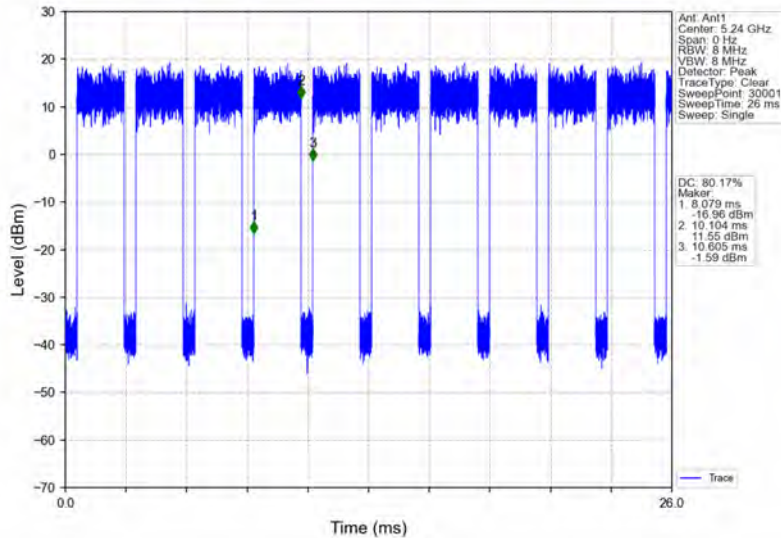
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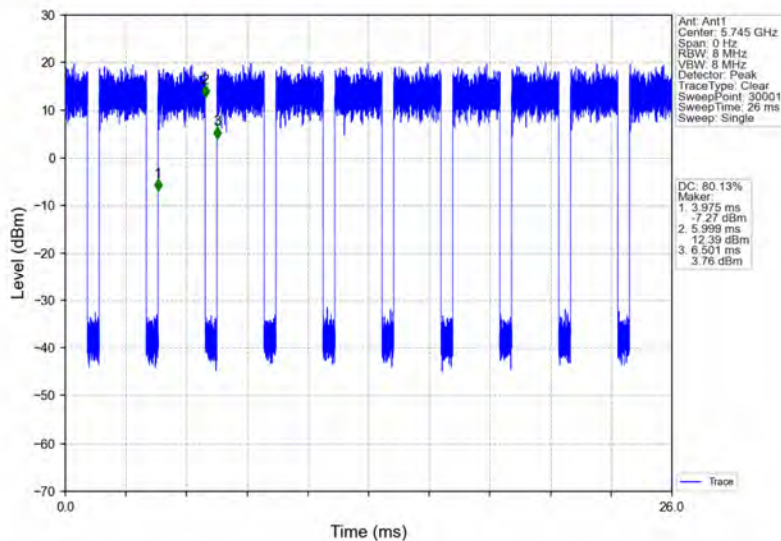
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



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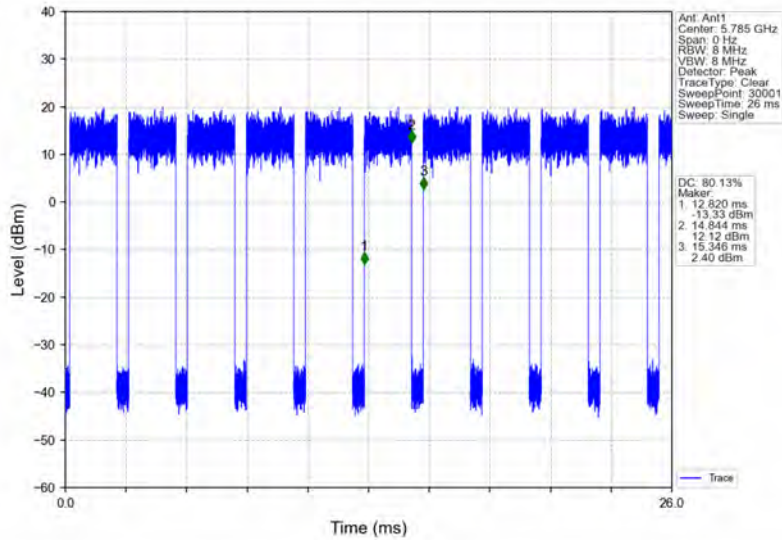
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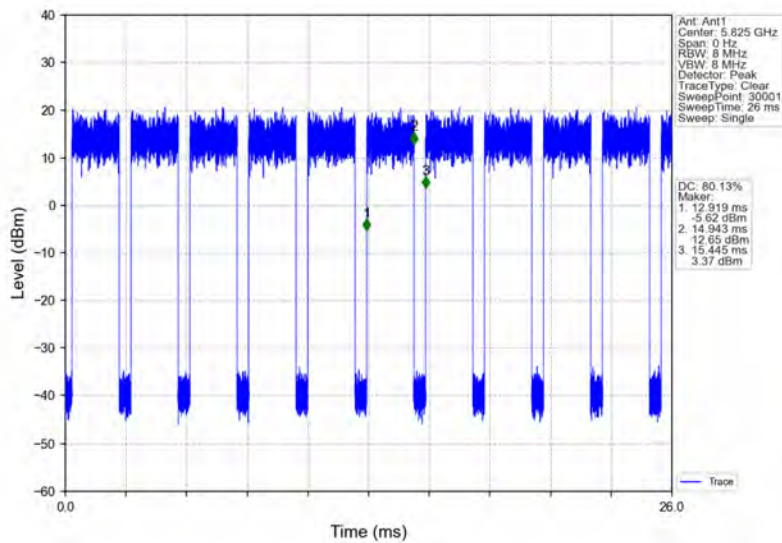
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



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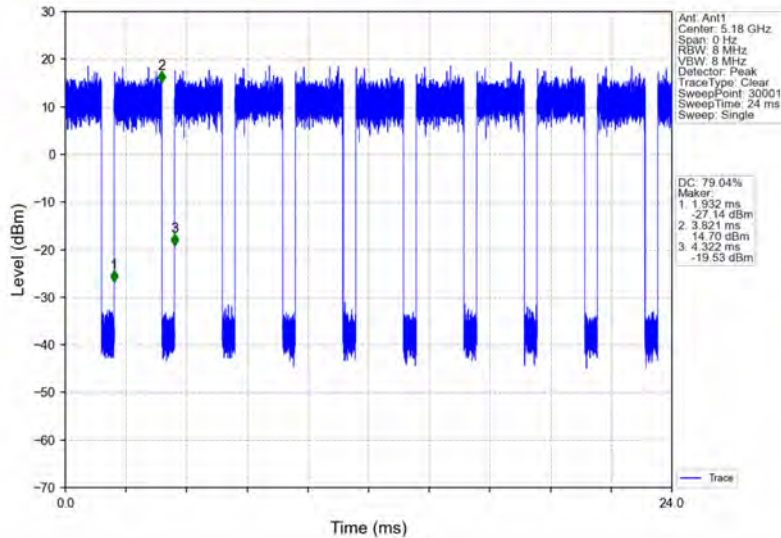
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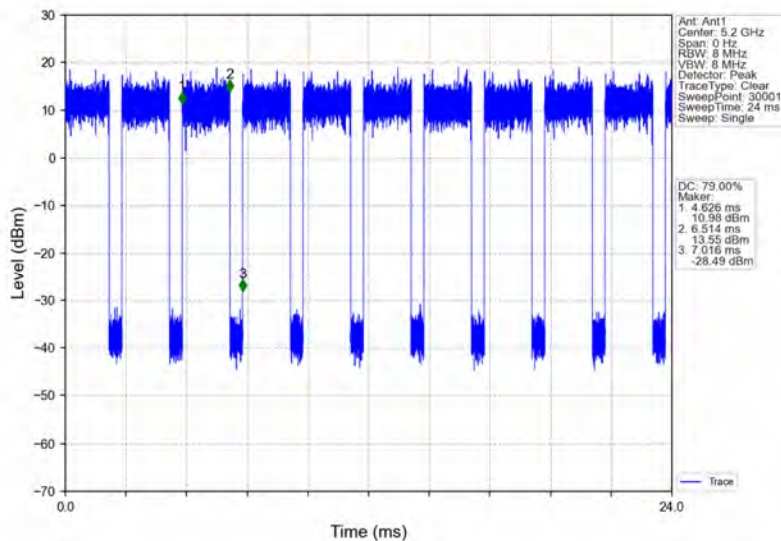
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



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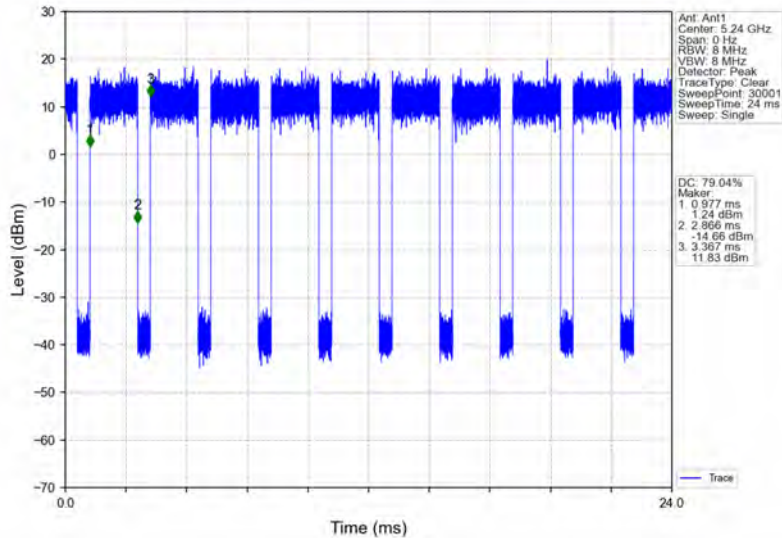
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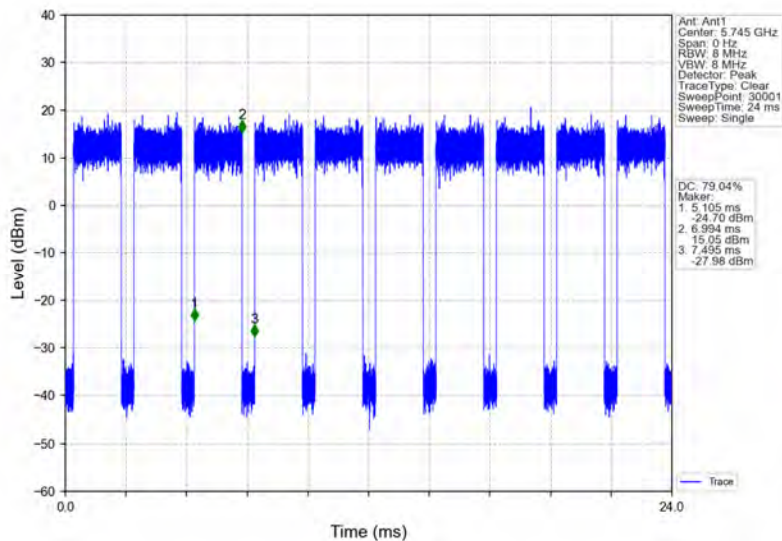
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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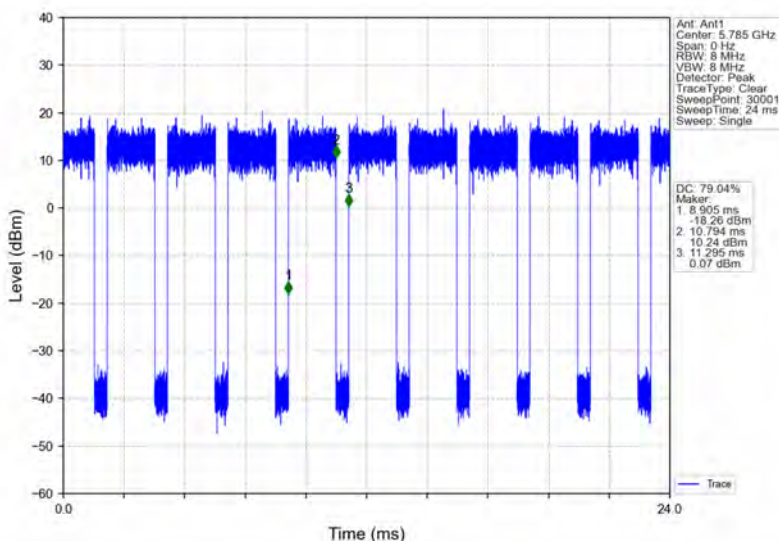
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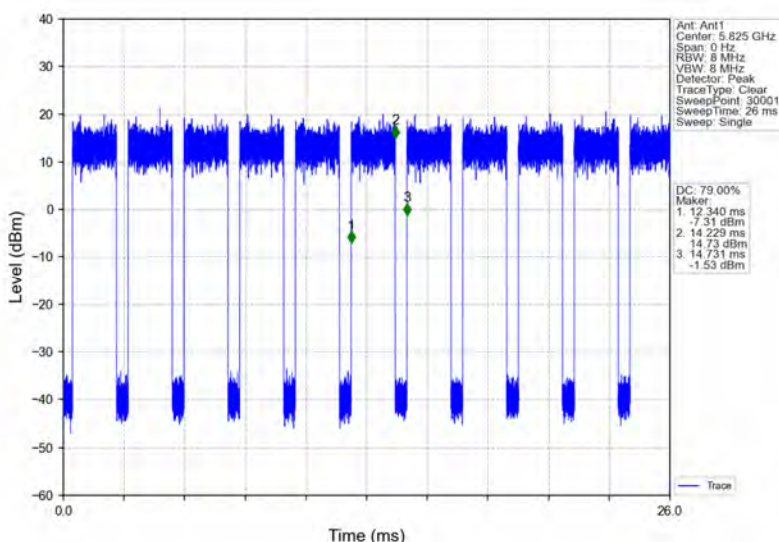
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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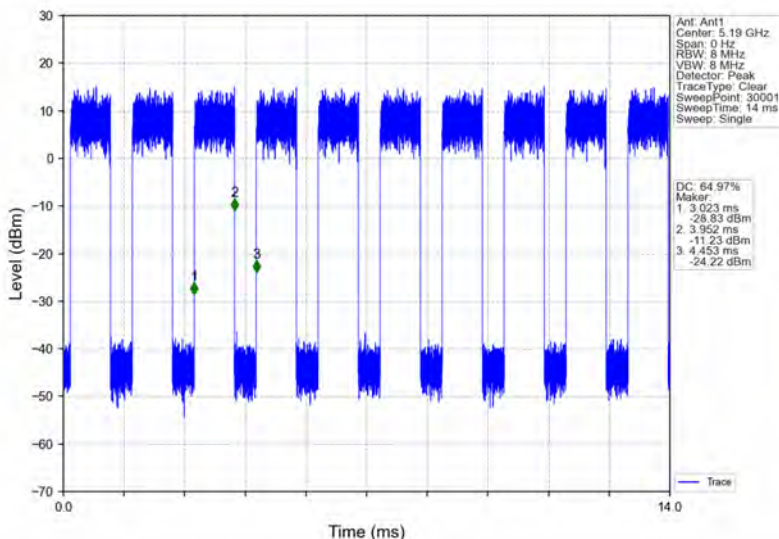
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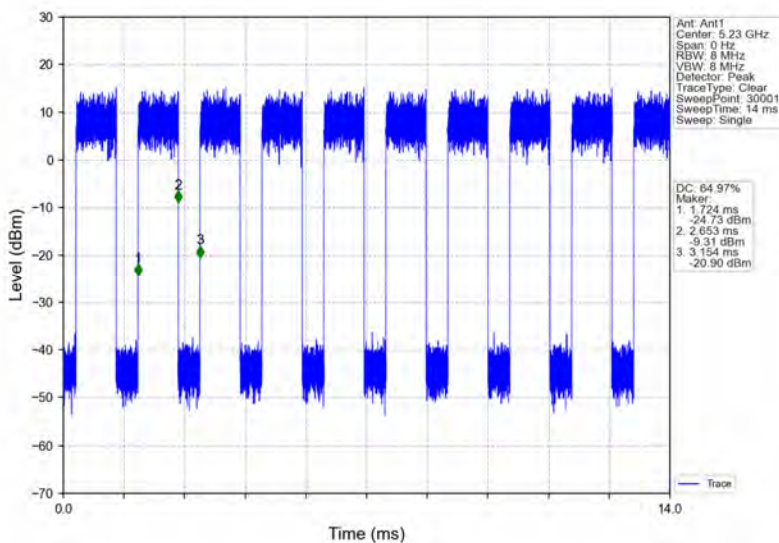
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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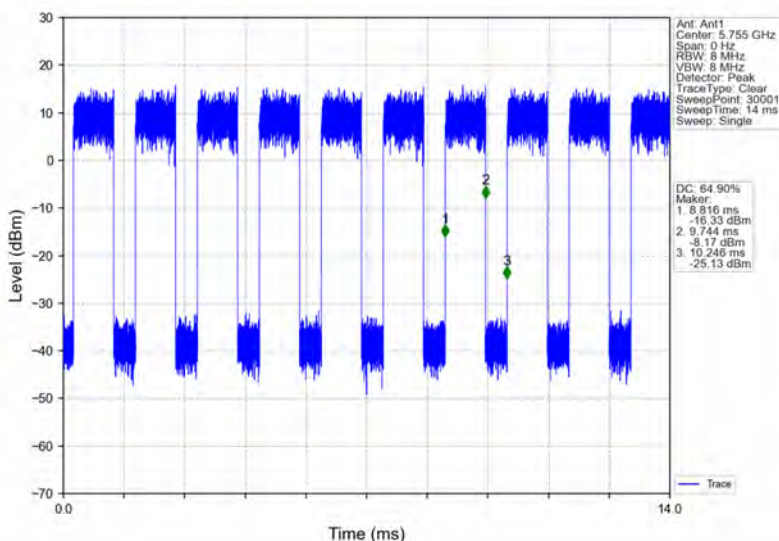
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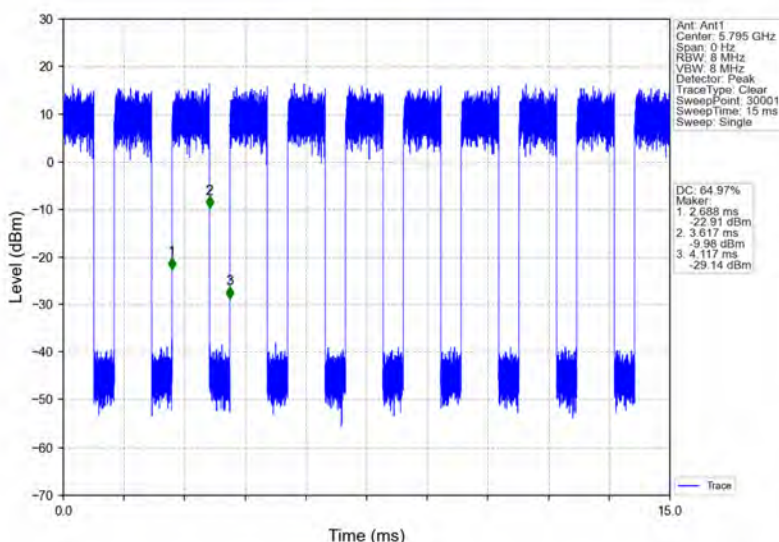
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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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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	17.406	Pass
		5200	1	17.453	Pass
		5240	1	17.436	Pass
		5745	1	17.250	Pass
		5785	1	17.302	Pass
		5825	1	17.247	Pass
802.11n (HT20)	SISO	5180	1	18.427	Pass
		5200	1	18.348	Pass
		5240	1	18.242	Pass
		5745	1	18.397	Pass
		5785	1	18.383	Pass
802.11n (HT40)	SISO	5825	1	18.318	Pass
		5190	1	36.333	Pass
		5230	1	36.233	Pass
		5755	1	36.006	Pass
		5795	1	36.067	Pass



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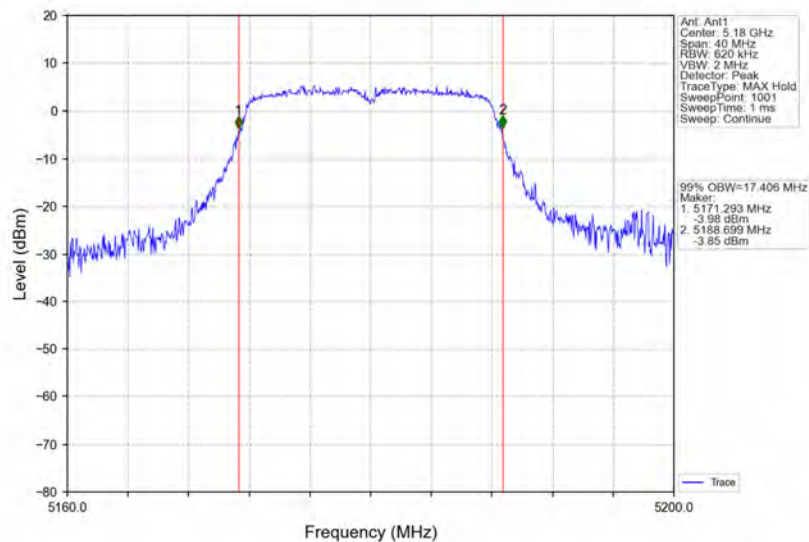
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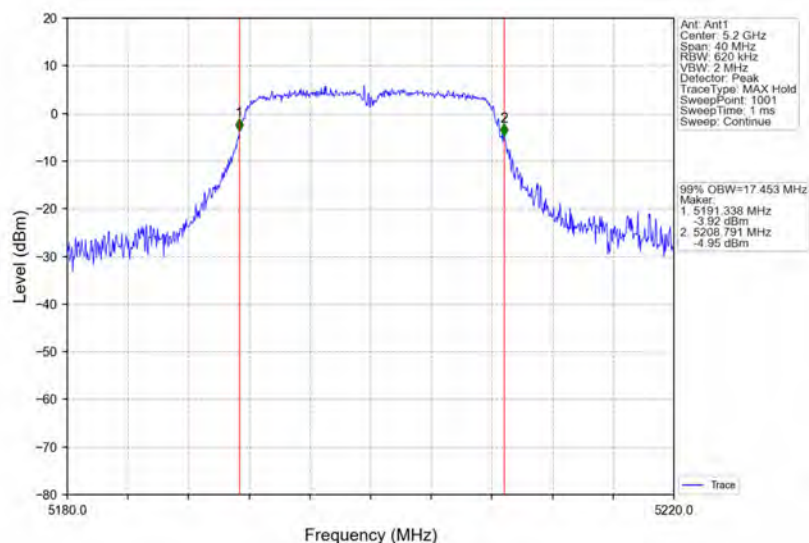
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2.1.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV



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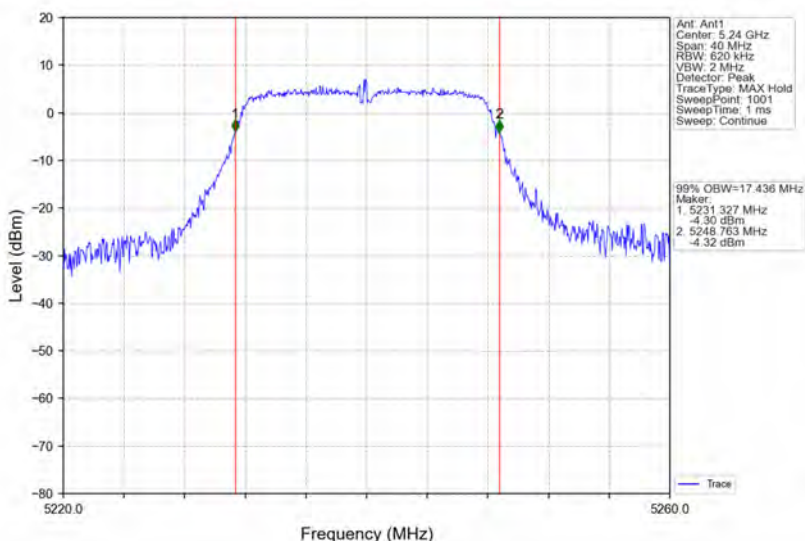
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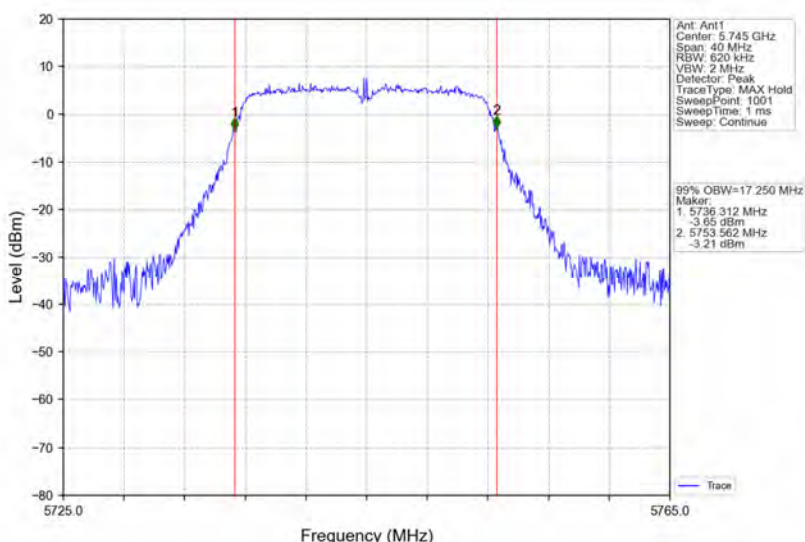
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



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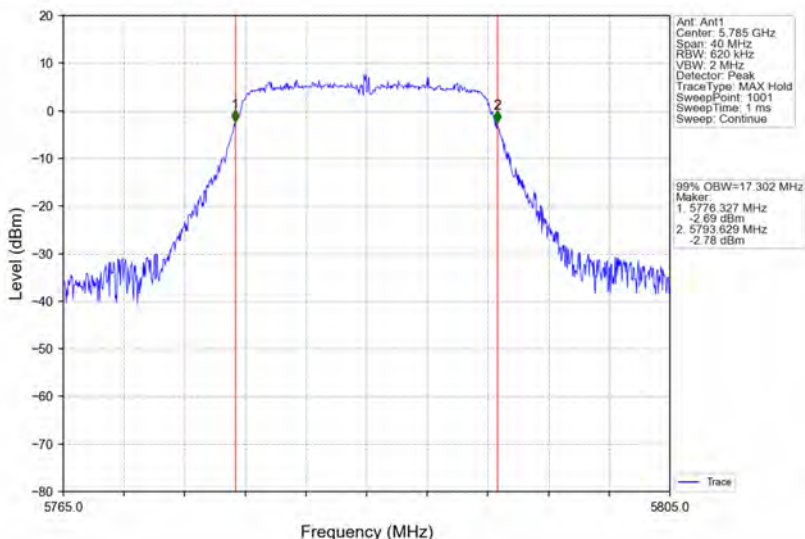
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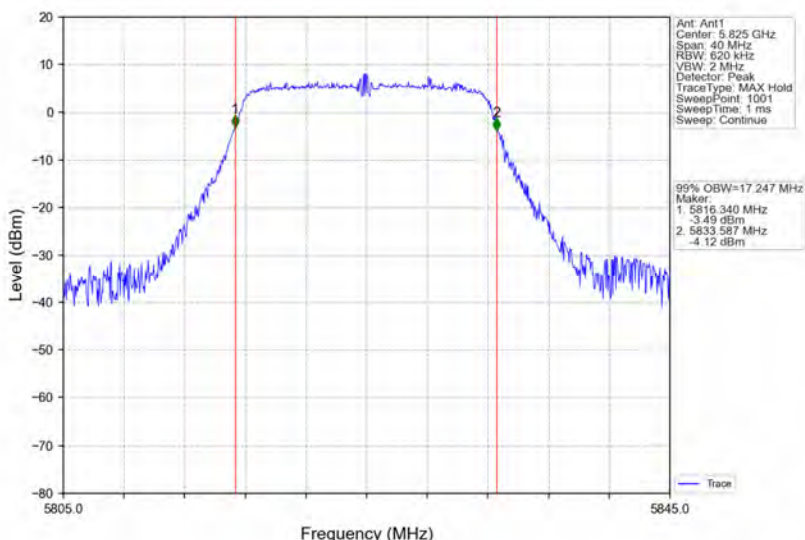
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV



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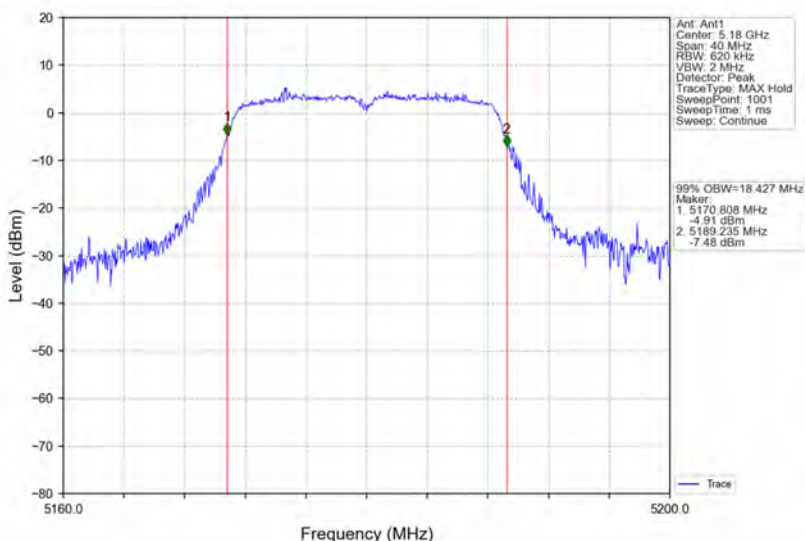
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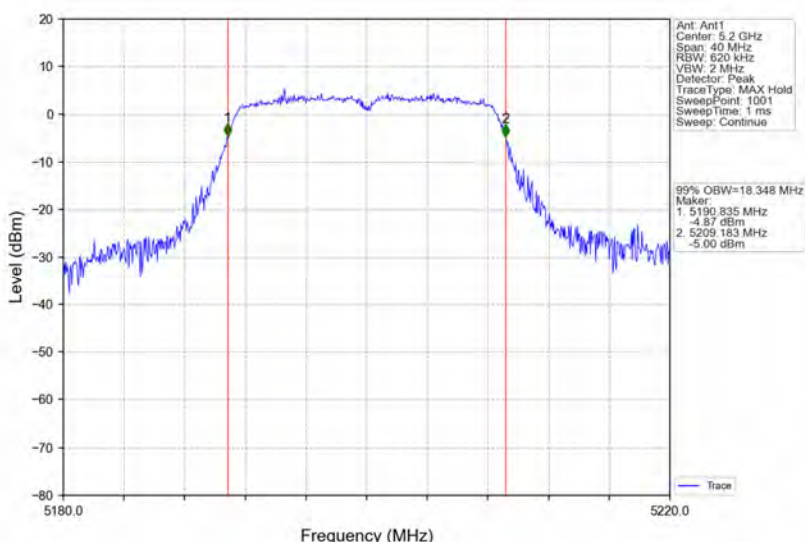
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



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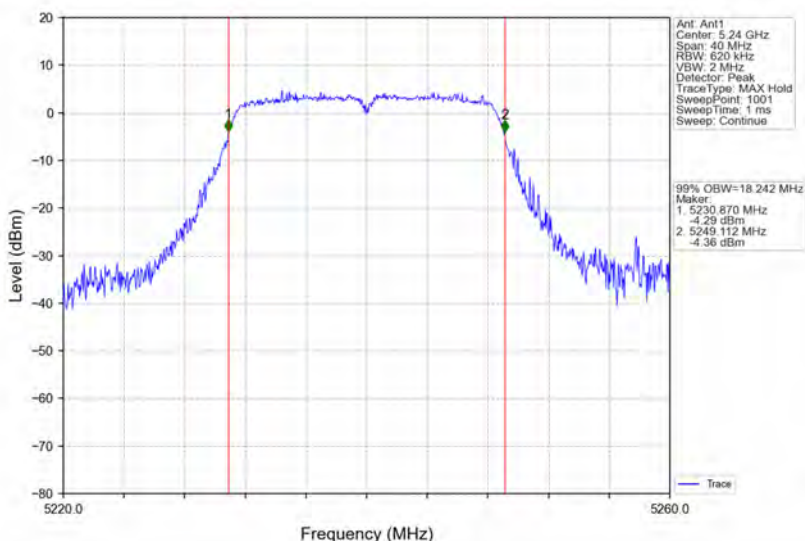
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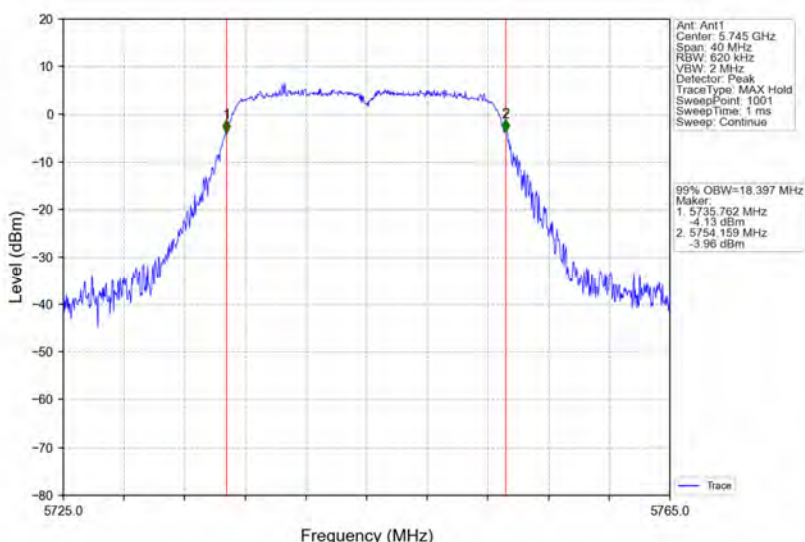
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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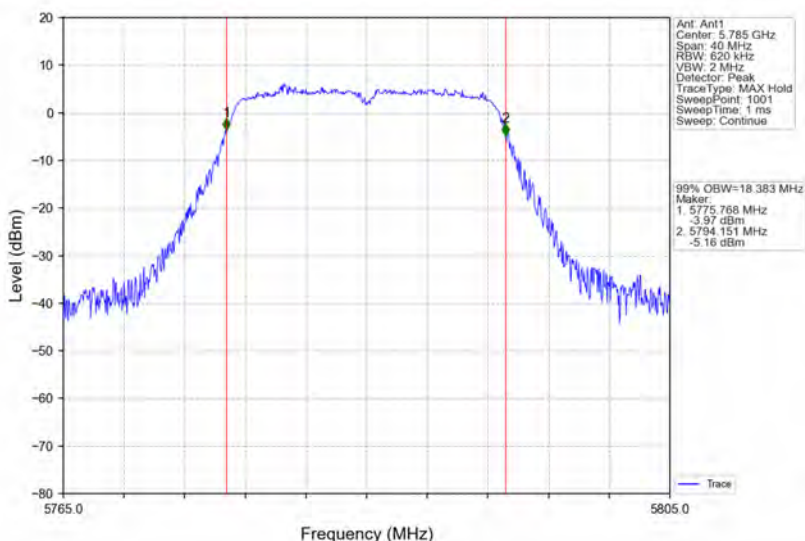
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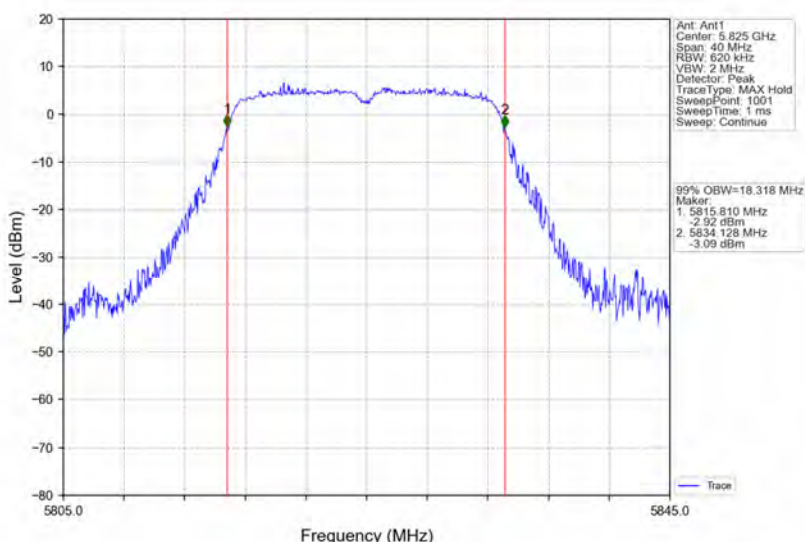
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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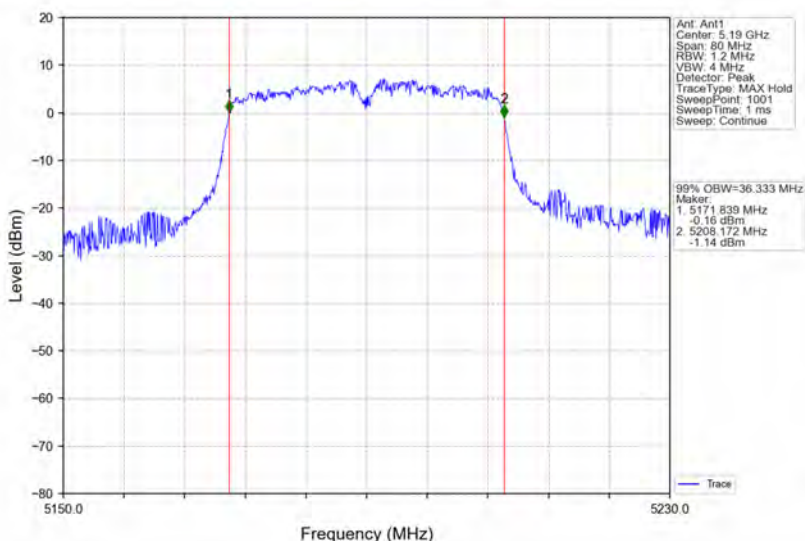
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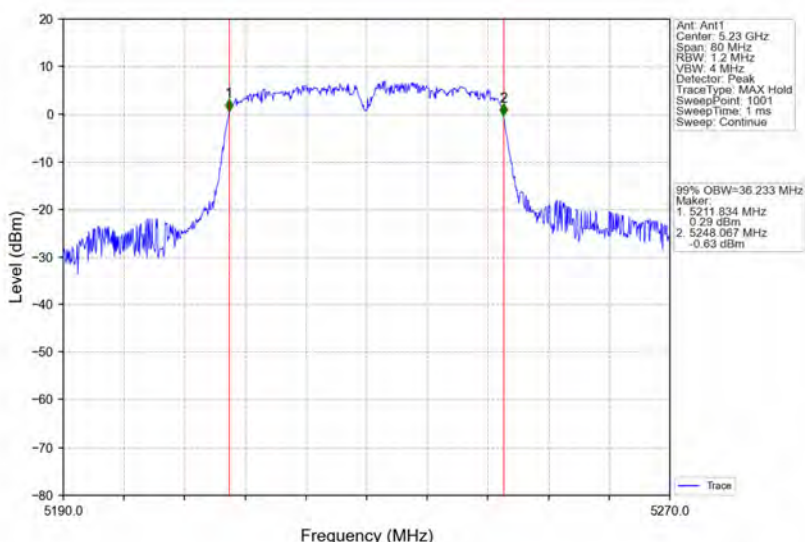
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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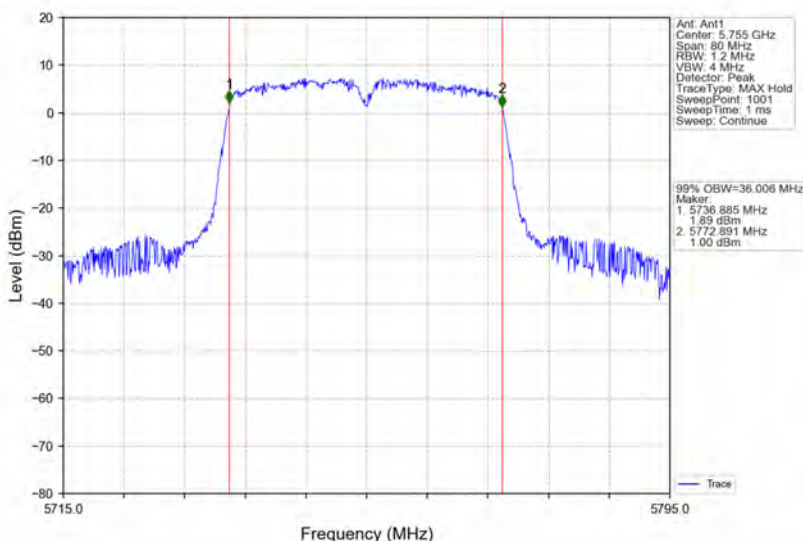
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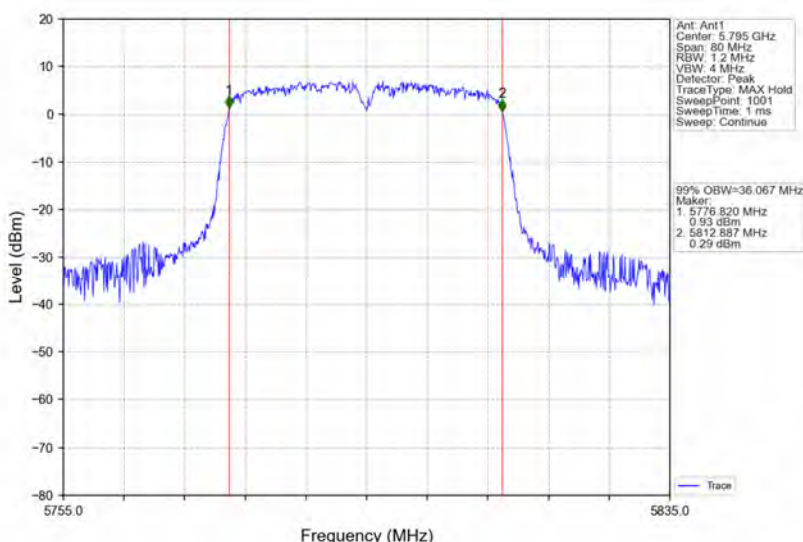
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



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	16.338	≥ 0.5	Pass
		5785	1	16.318	≥ 0.5	Pass
		5825	1	16.327	≥ 0.5	Pass
802.11n (HT20)	SISO	5745	1	17.155	≥ 0.5	Pass
		5785	1	17.570	≥ 0.5	Pass
		5825	1	17.510	≥ 0.5	Pass
802.11n (HT40)	SISO	5755	1	35.133	≥ 0.5	Pass
		5795	1	34.369	≥ 0.5	Pass



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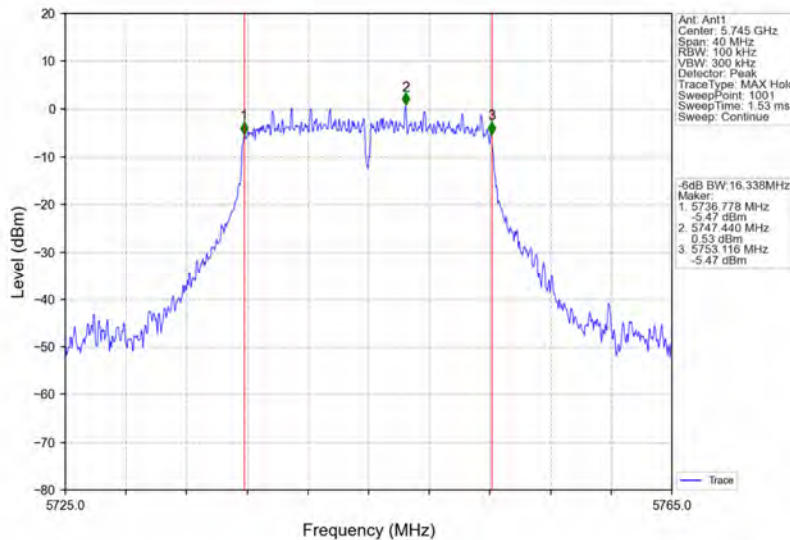
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center (China)

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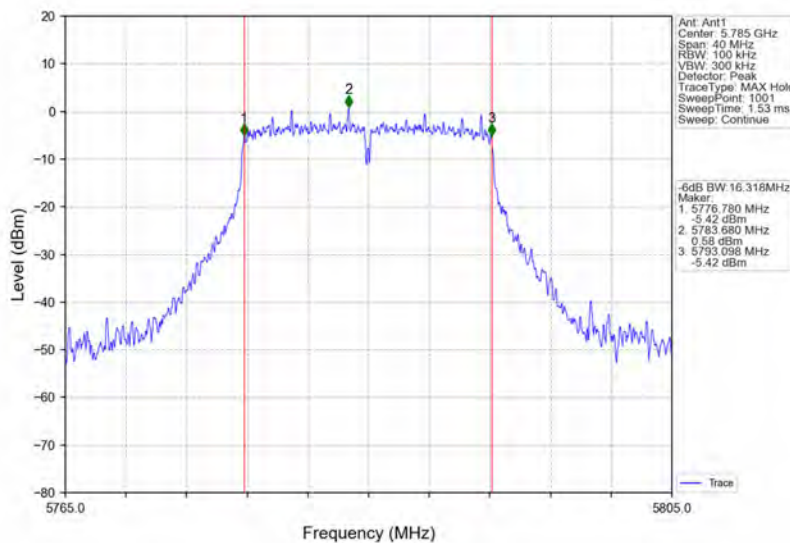
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2.2.2 Test Graph

802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant1_NTNV



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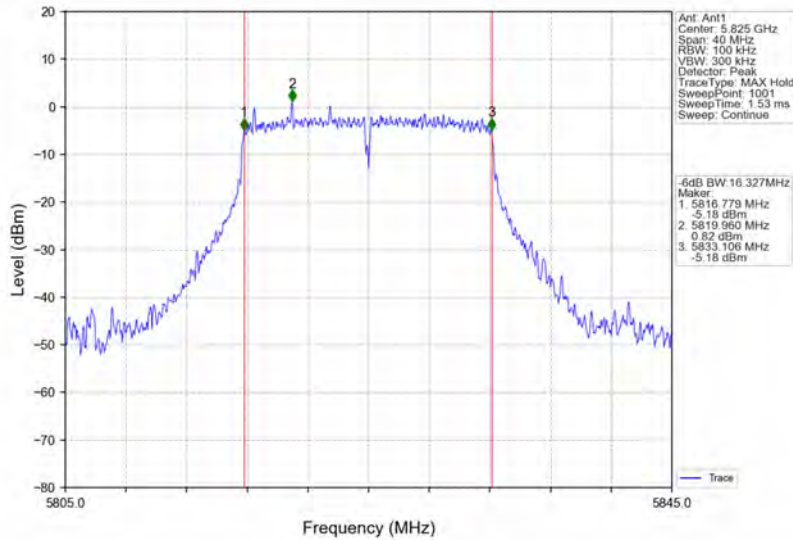
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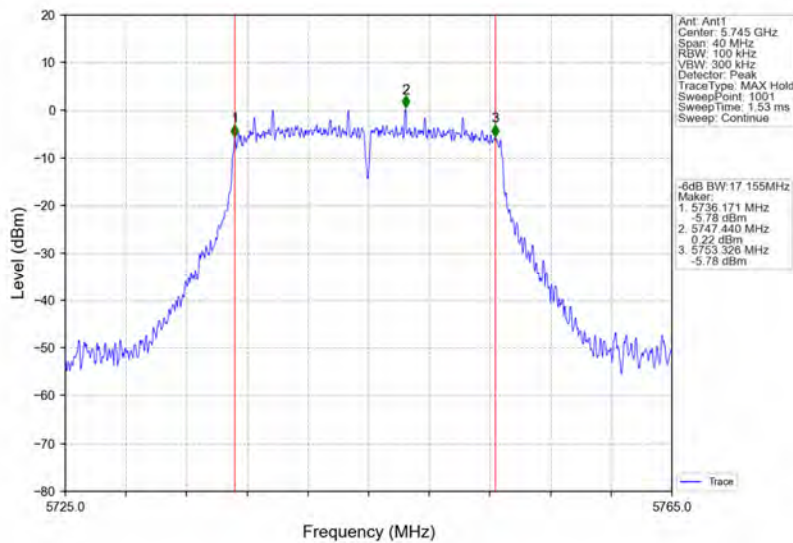
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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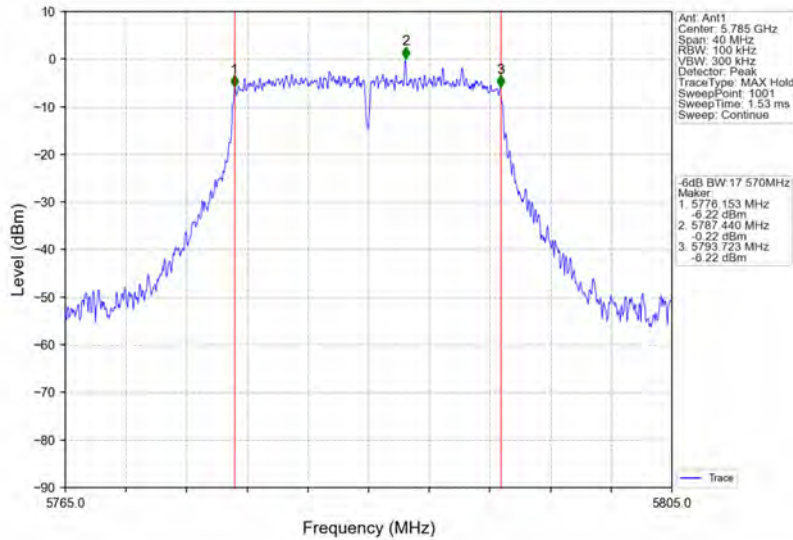
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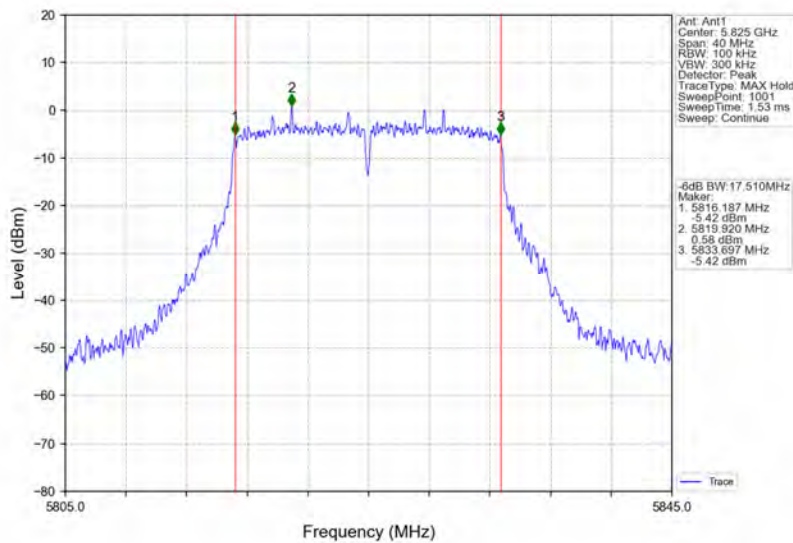
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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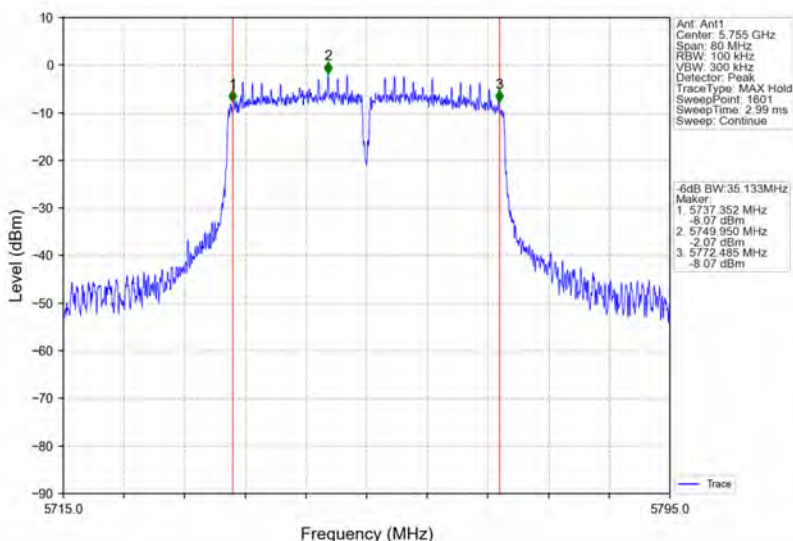
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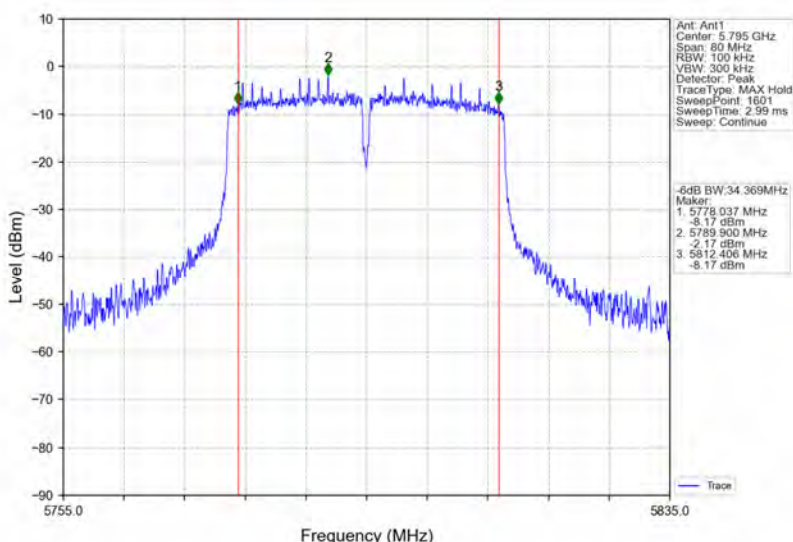
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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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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	24.259	Pass
		5200	1	29.840	Pass
		5240	1	22.627	Pass
802.11n (HT20)	SISO	5180	1	22.815	Pass
		5200	1	23.598	Pass
		5240	1	23.178	Pass
802.11n (HT40)	SISO	5190	1	48.900	Pass
		5230	1	47.238	Pass



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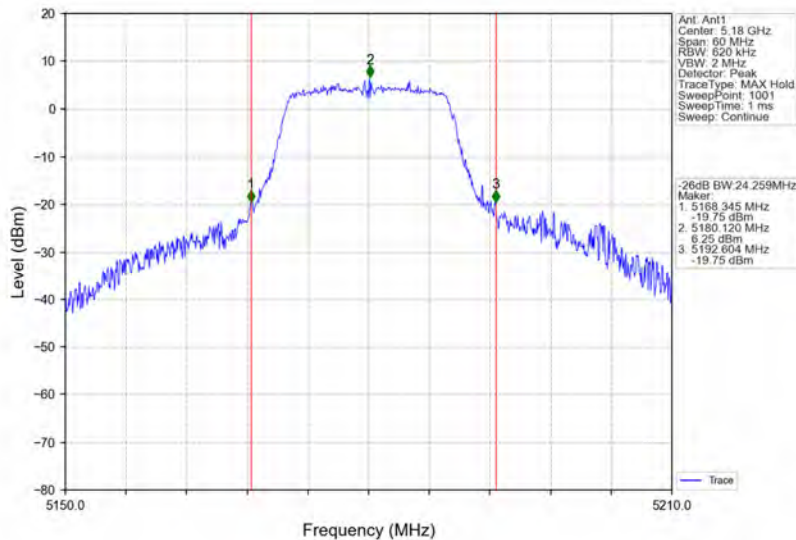
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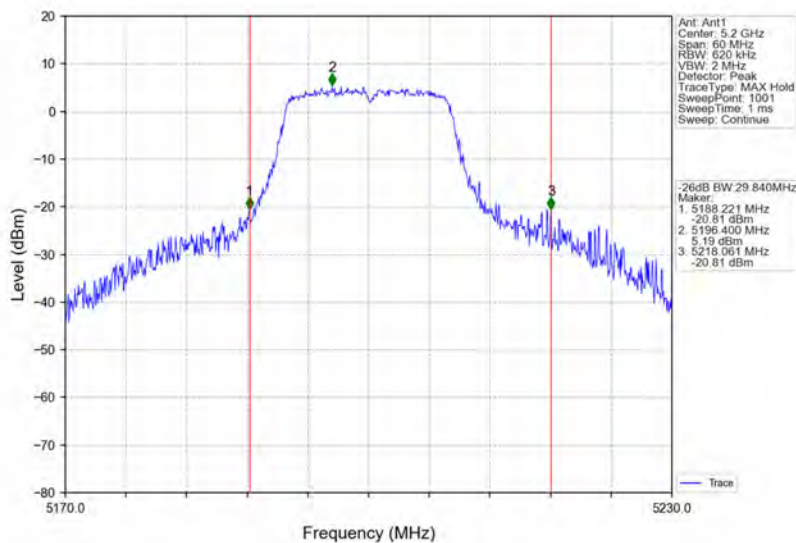
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2.3.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV



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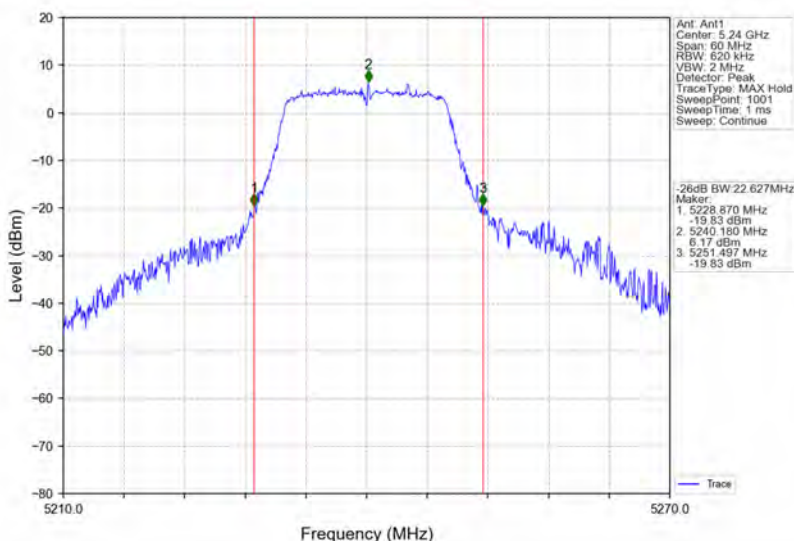
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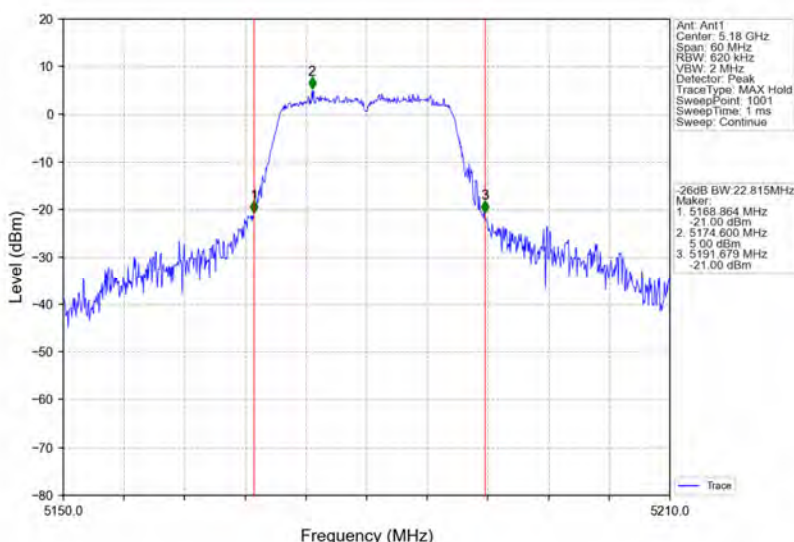
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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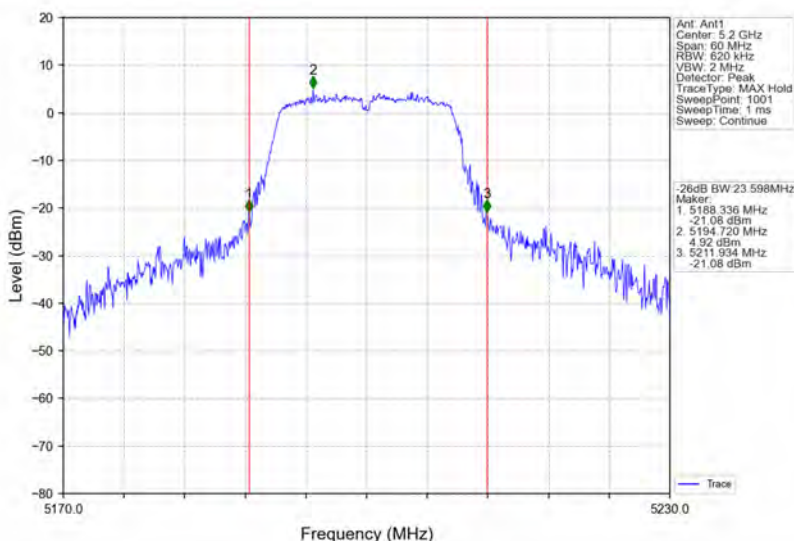
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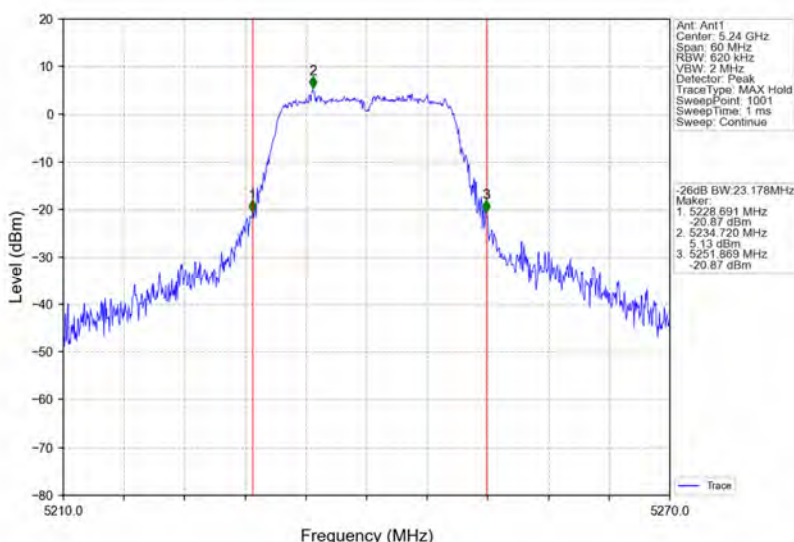
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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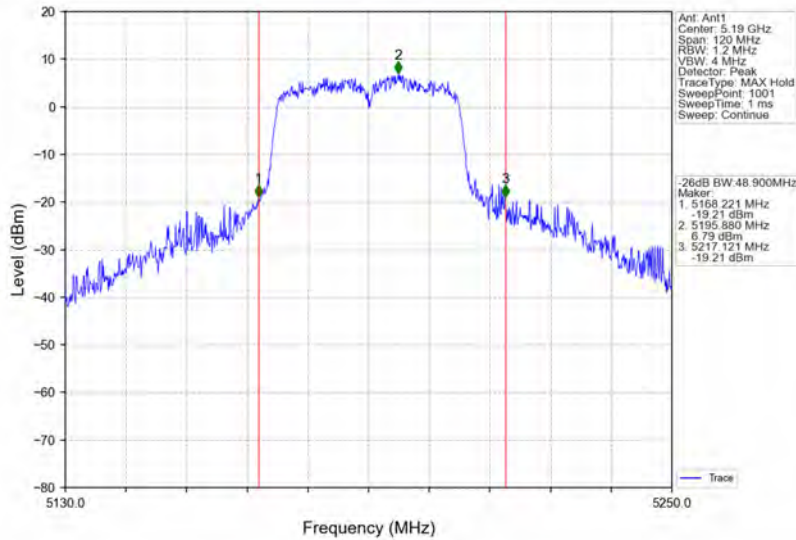
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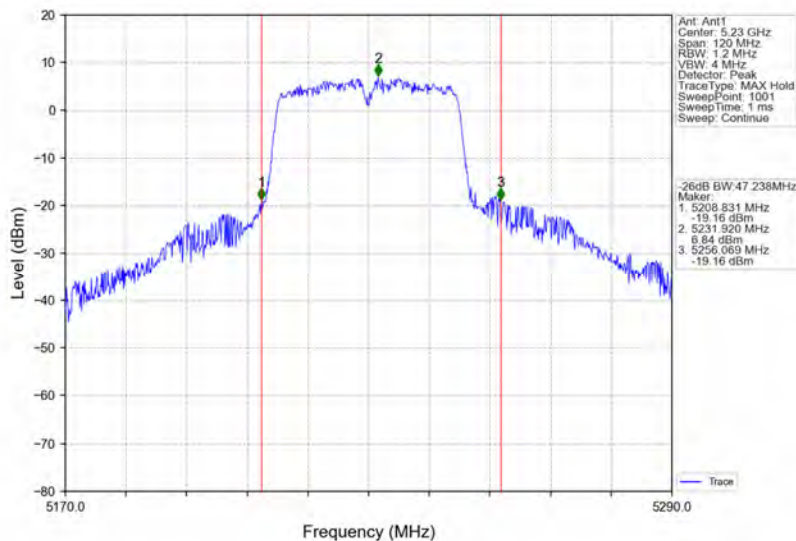
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802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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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	10.93	<=23.98	Pass
		5200	10.80	<=23.98	Pass
		5240	10.73	<=23.98	Pass
		5745	12.05	<=30	Pass
		5785	11.81	<=30	Pass
		5825	12.27	<=30	Pass
802.11n (HT20)	SISO	5180	10.14	<=23.98	Pass
		5200	10.31	<=23.98	Pass
		5240	10.44	<=23.98	Pass
		5745	11.42	<=30	Pass
		5785	11.47	<=30	Pass
		5825	11.90	<=30	Pass
802.11n (HT40)	SISO	5190	10.54	<=23.98	Pass
		5230	10.81	<=23.98	Pass
		5755	11.71	<=30	Pass
		5795	11.40	<=30	Pass

Note1: Antenna Gain: Ant1: Band U-NII-1:1.99dBi; Band U-NII-3:3.44dBi;



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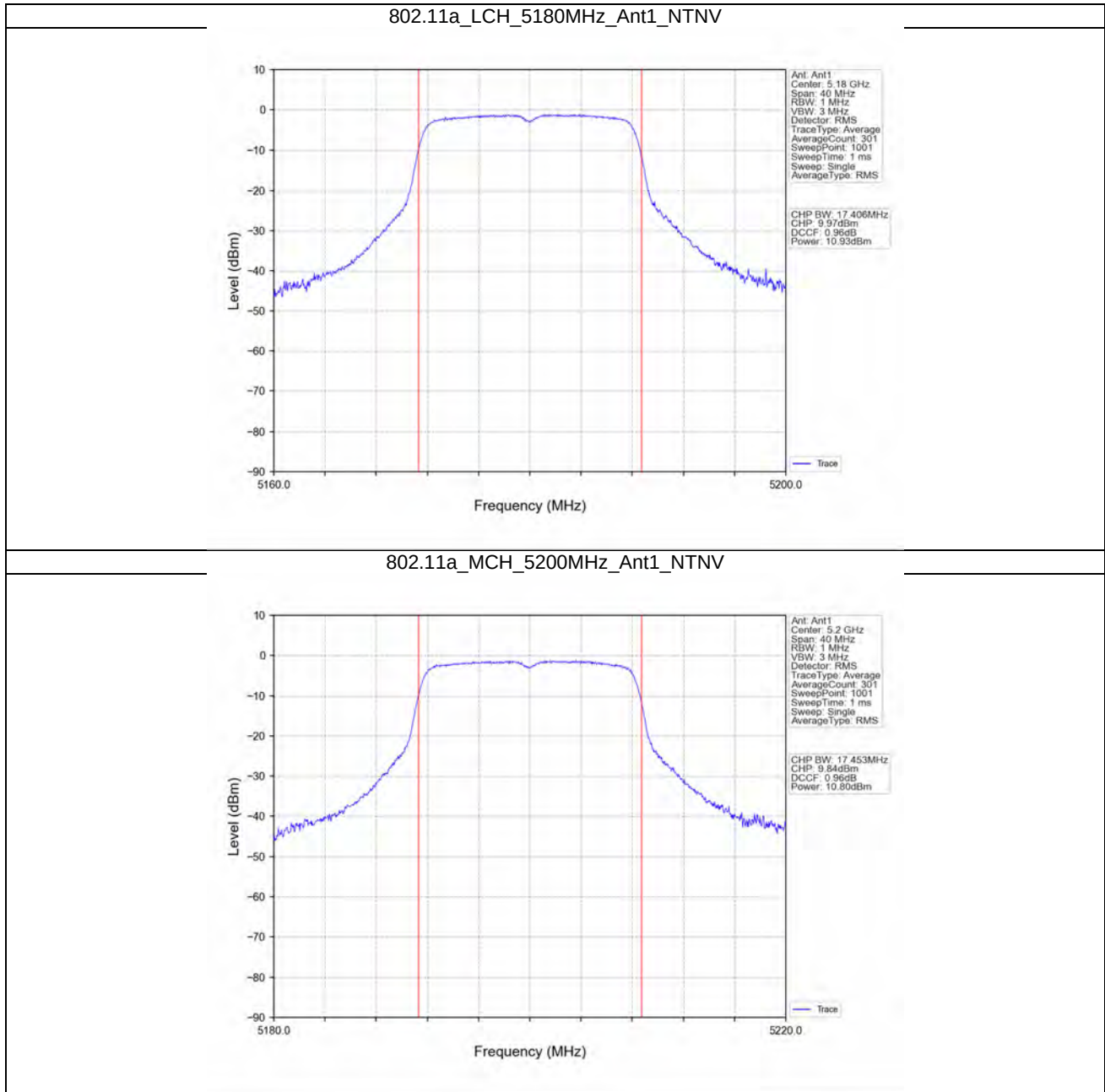
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3.1.2 Test Graph



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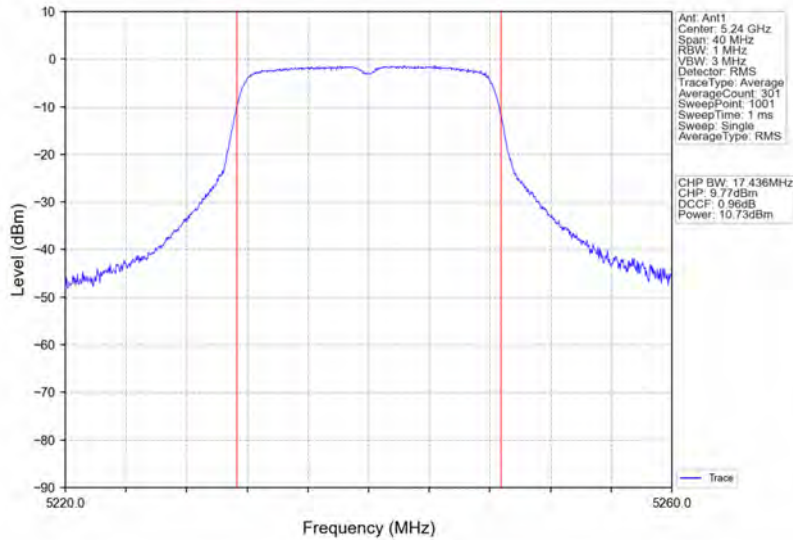
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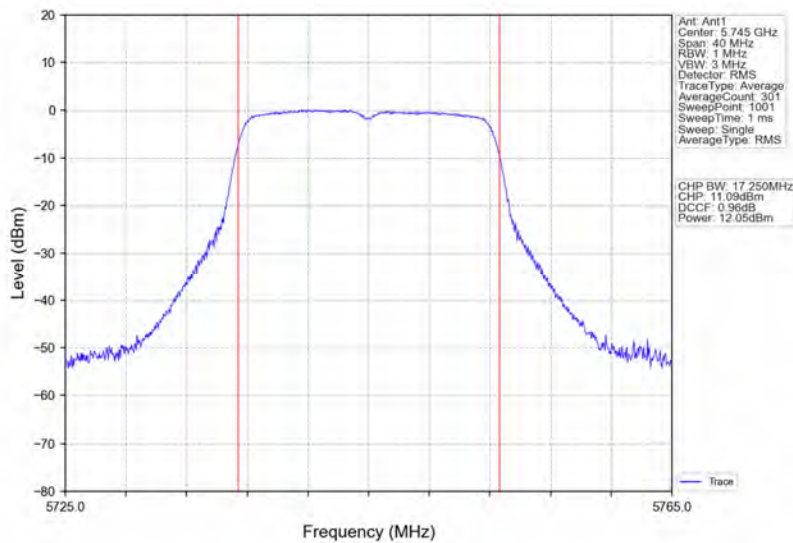
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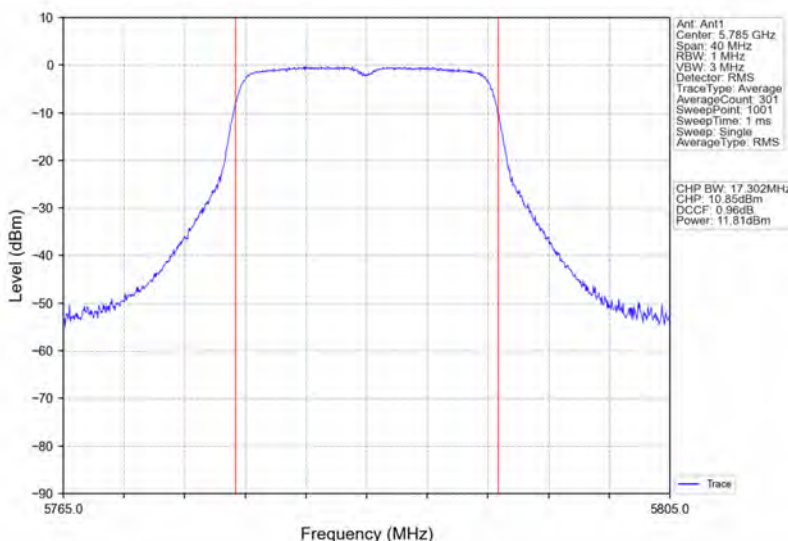
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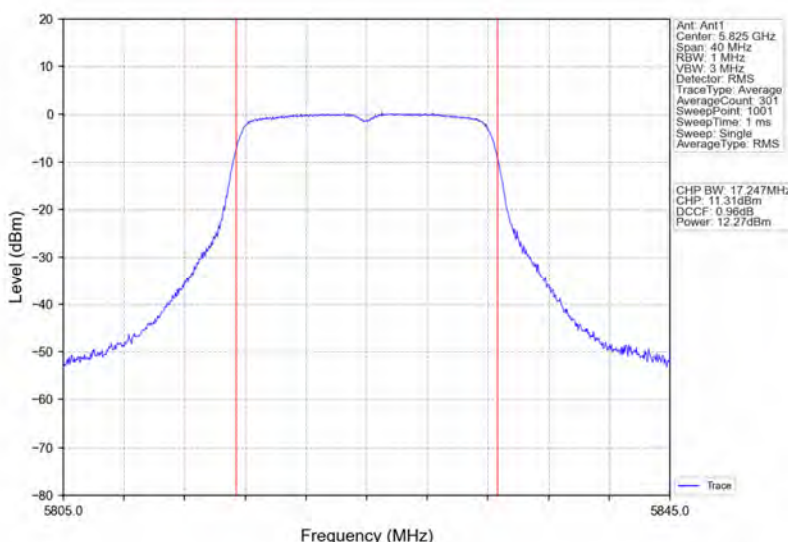
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802.11a_HCH_5825MHz_Ant1_NTNV



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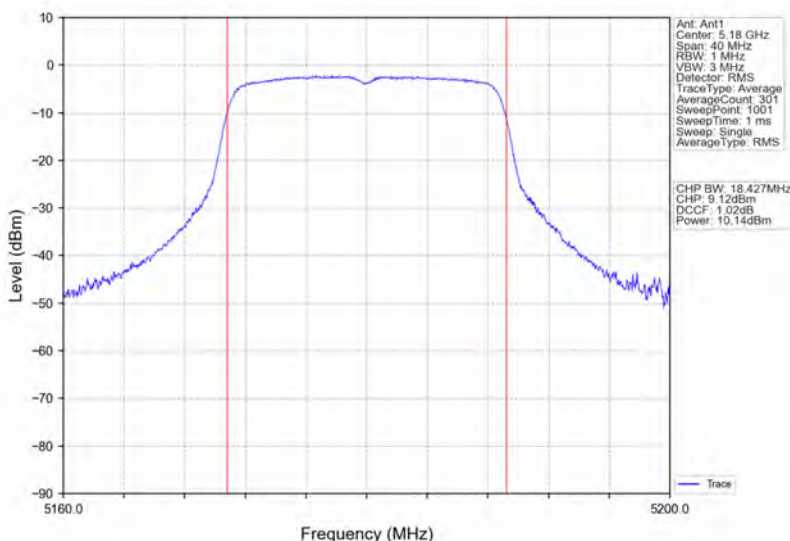
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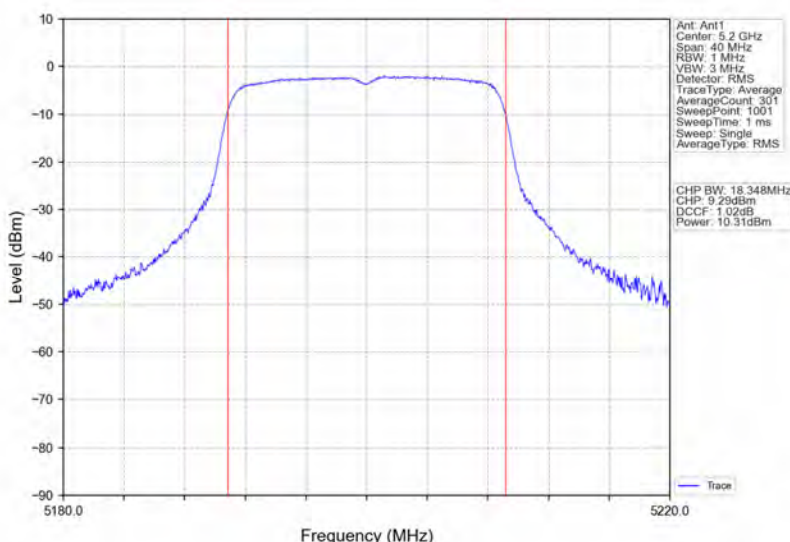
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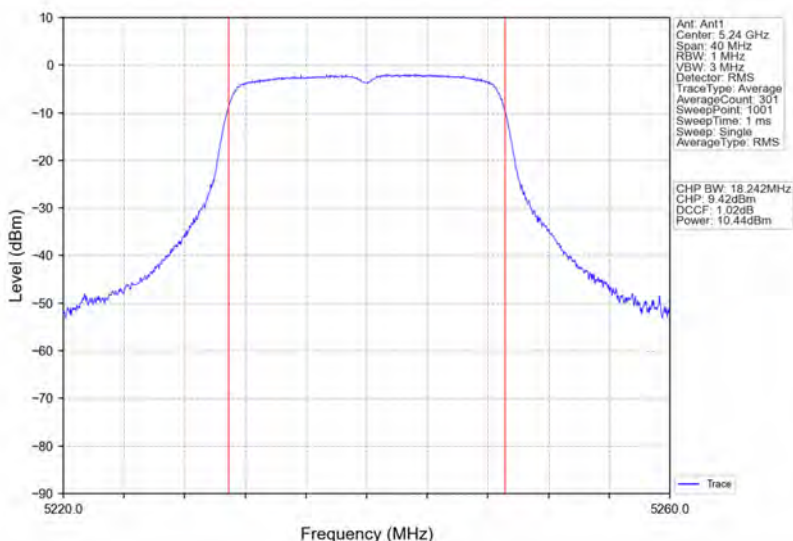
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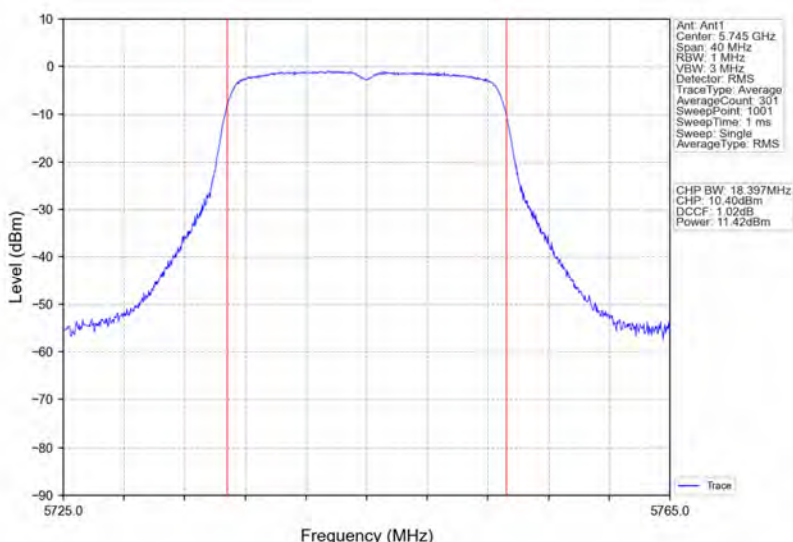
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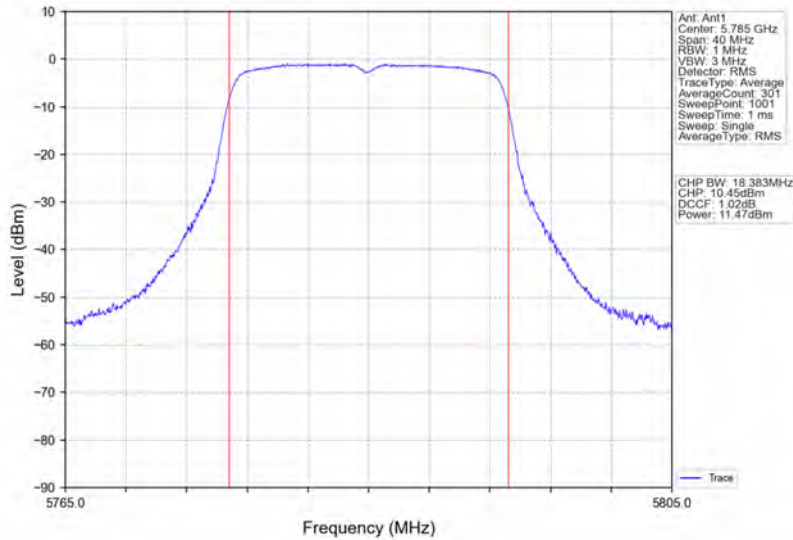
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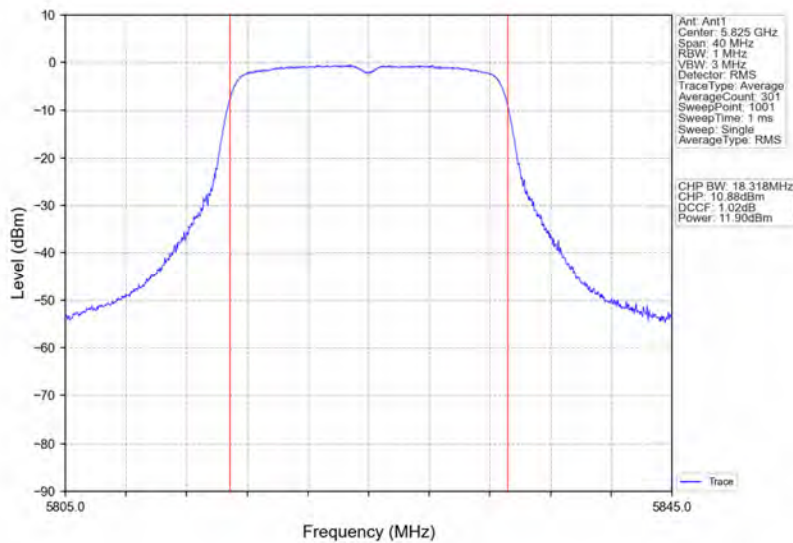
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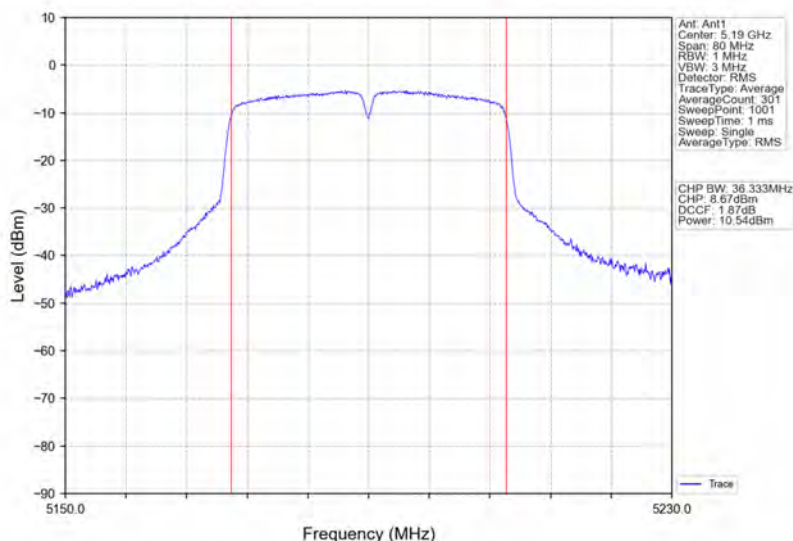
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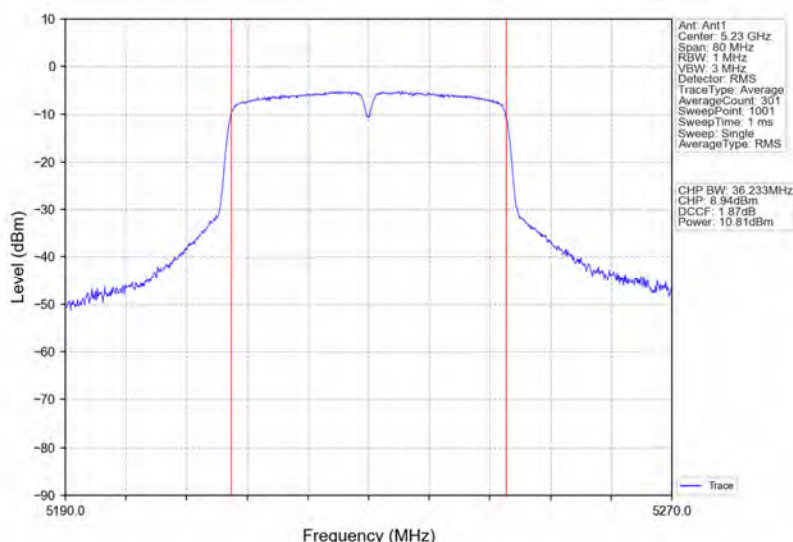
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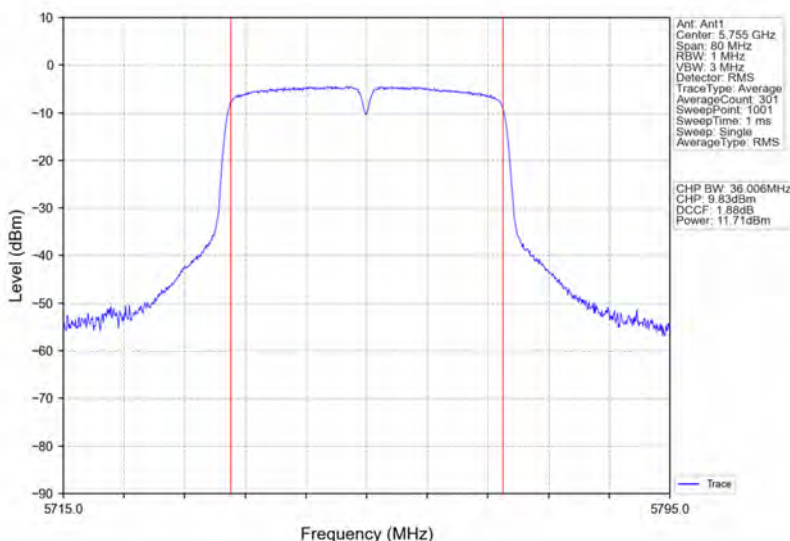
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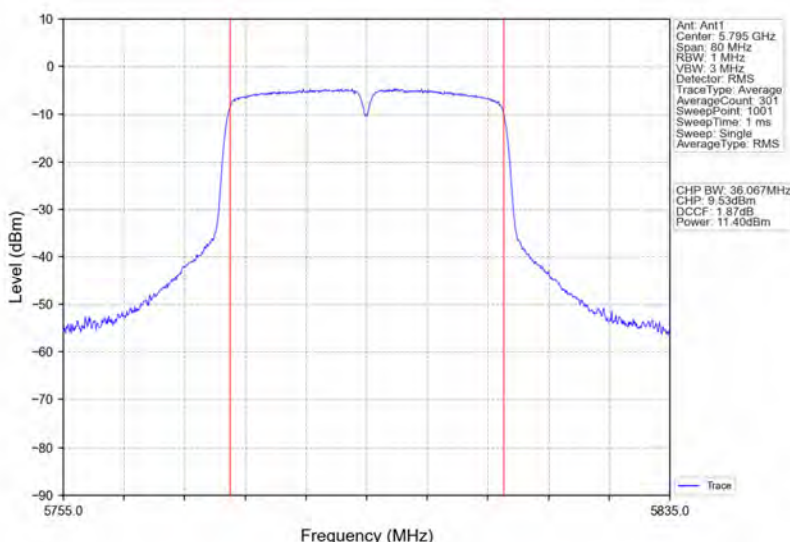
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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	-0.21	<=11	Pass
		5200	0.03	<=11	Pass
		5240	-0.01	<=11	Pass
802.11n (HT20)	SISO	5180	-1.14	<=11	Pass
		5200	-1.08	<=11	Pass
		5240	-0.78	<=11	Pass
802.11n (HT40)	SISO	5190	-3.34	<=11	Pass
		5230	-3.10	<=11	Pass

Note1: Antenna Gain: Ant1: Band U-NII-1:1.99dBi; Band U-NII-3:3.44dBi;



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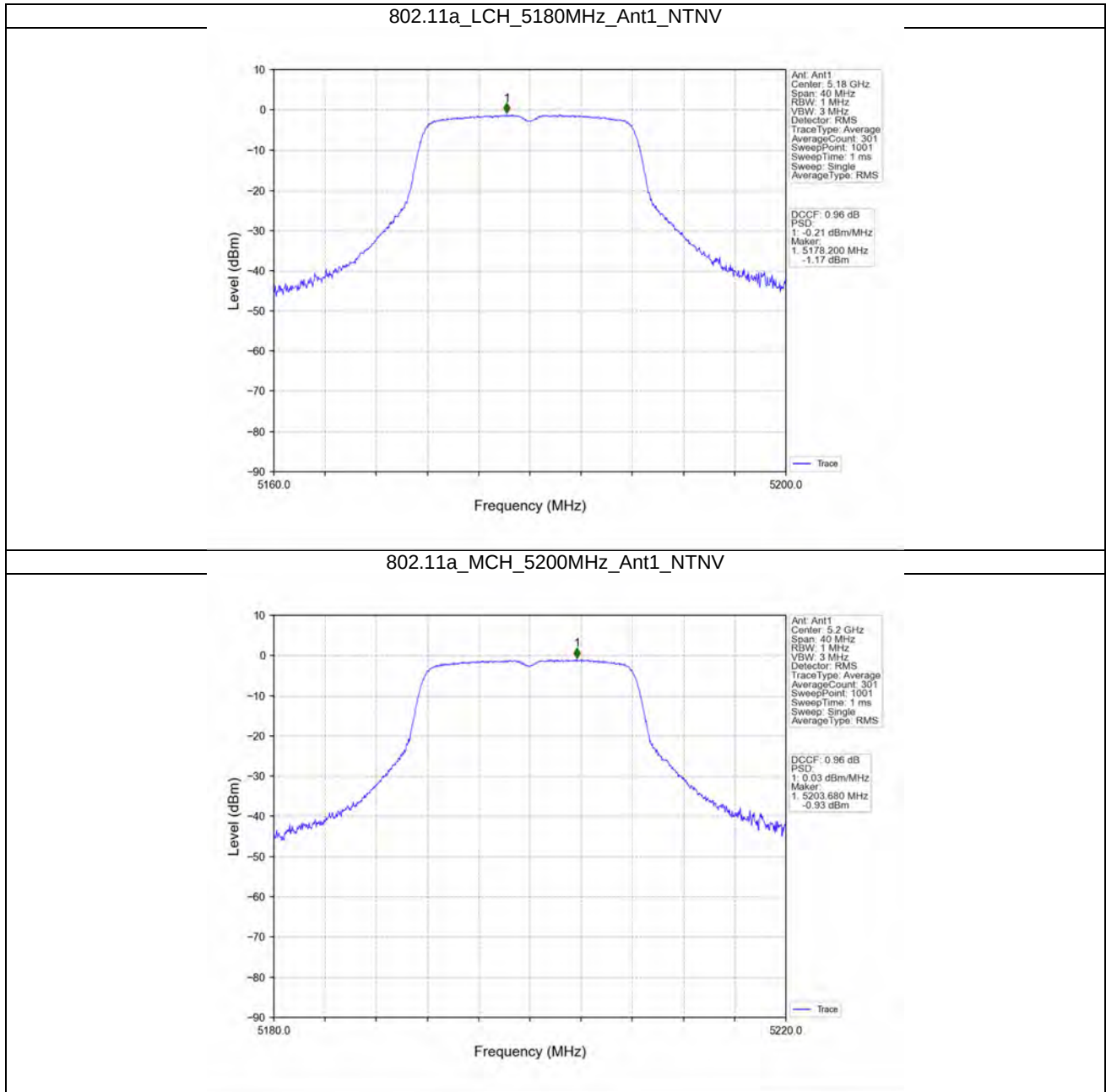
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Testing Center E802.11a

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4.1.2 Test Graph



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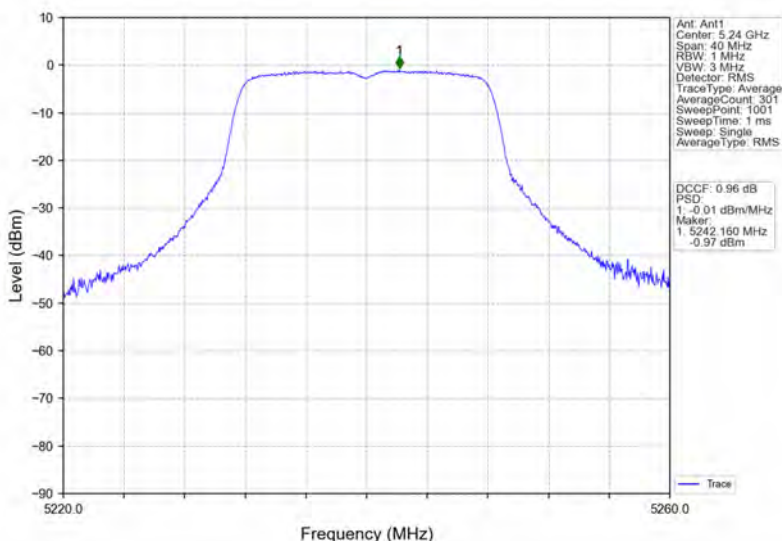
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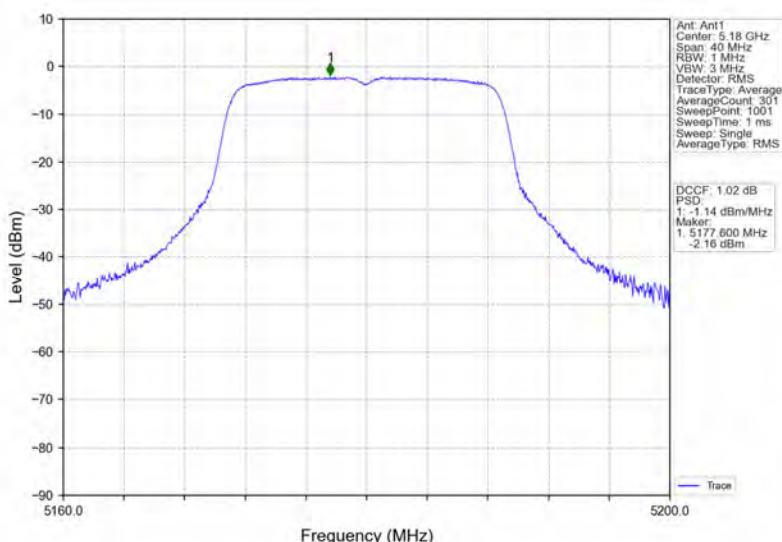
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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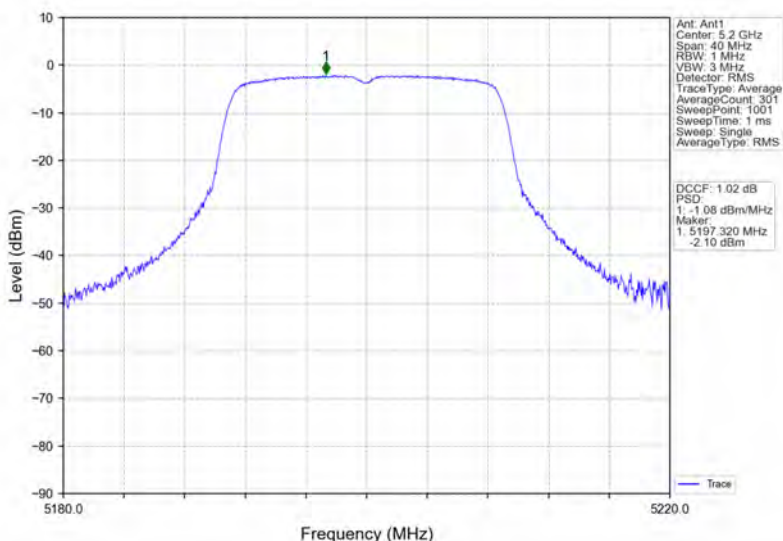
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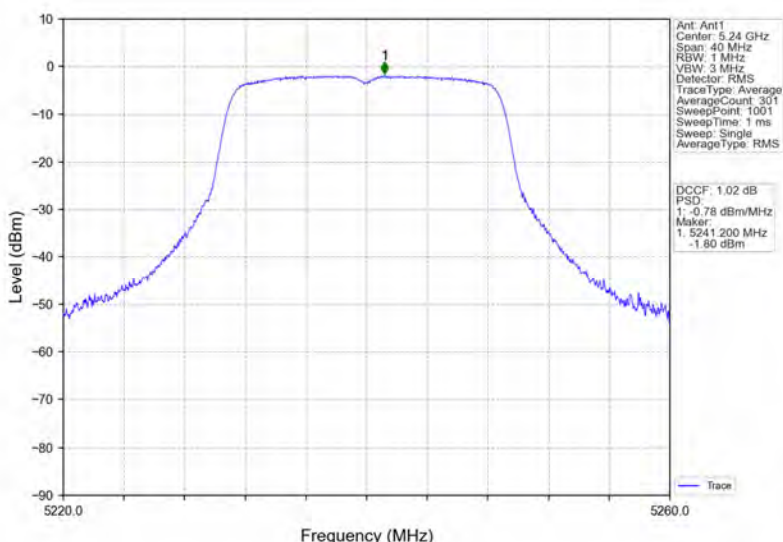
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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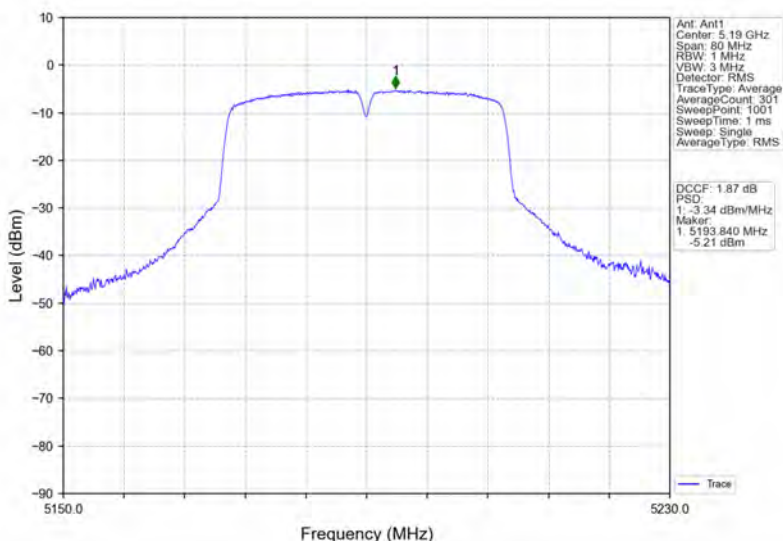
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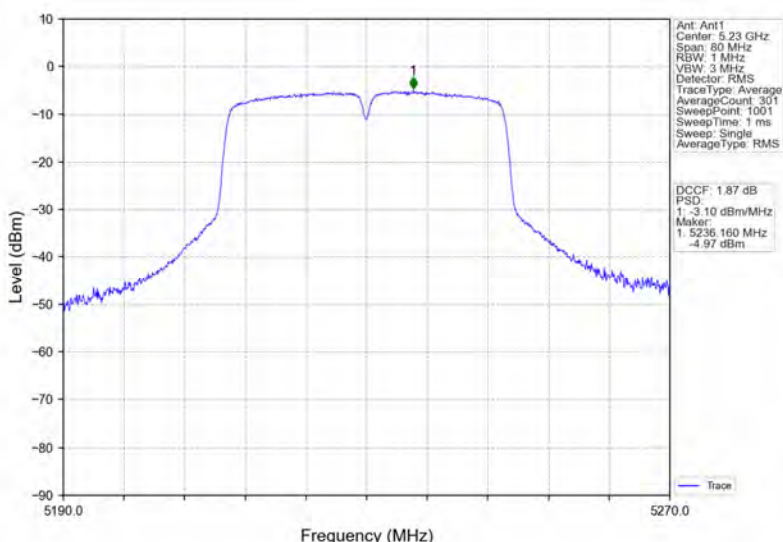
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



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	-1.75	<=30	Pass
		5785	-1.95	<=30	Pass
		5825	-1.33	<=30	Pass
802.11n (HT20)	SISO	5745	-2.62	<=30	Pass
		5785	-2.60	<=30	Pass
		5825	-2.54	<=30	Pass
802.11n (HT40)	SISO	5755	-5.13	<=30	Pass
		5795	-5.10	<=30	Pass

Note1: Antenna Gain: Band U-NII-1:1.99dBi; Band U-NII-3:3.44dBi;



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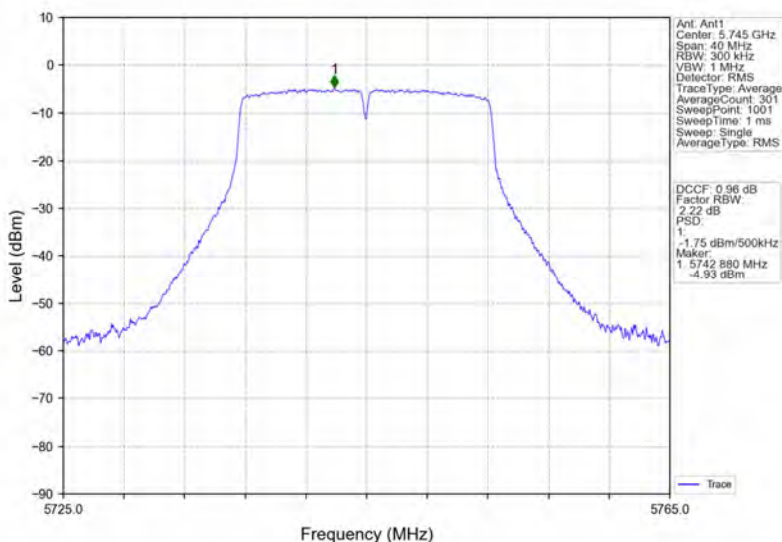
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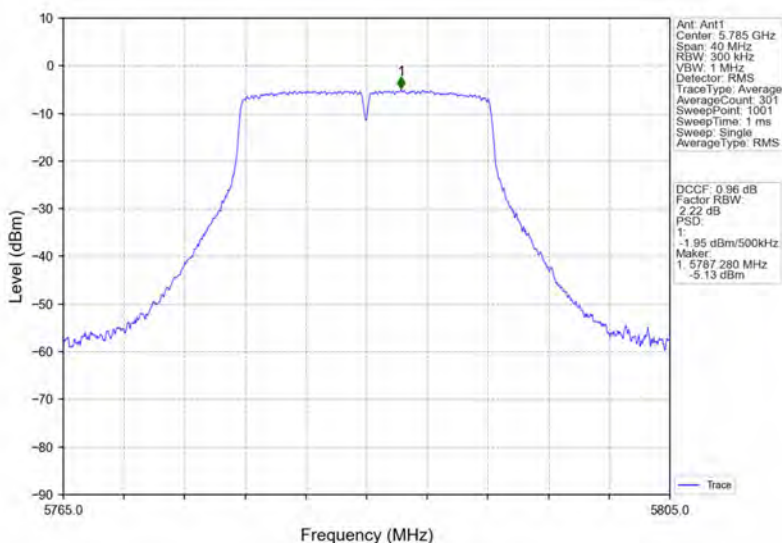
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4.2.2 Test Graph

802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant1_NTNV



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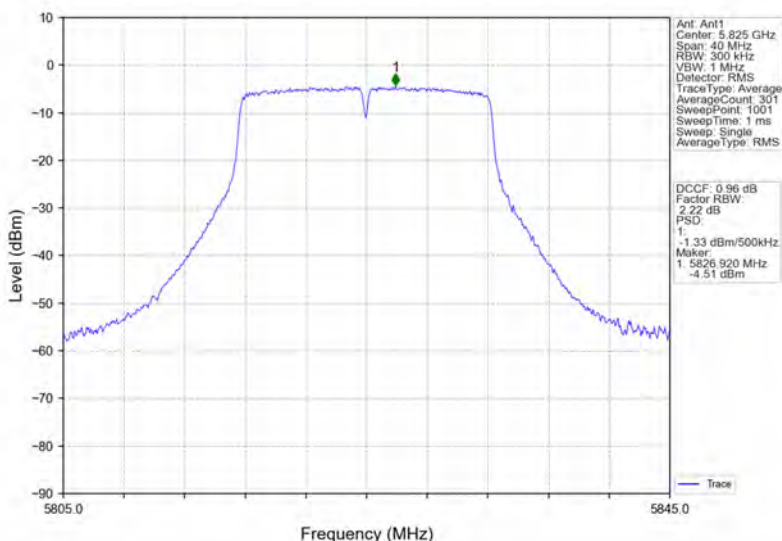
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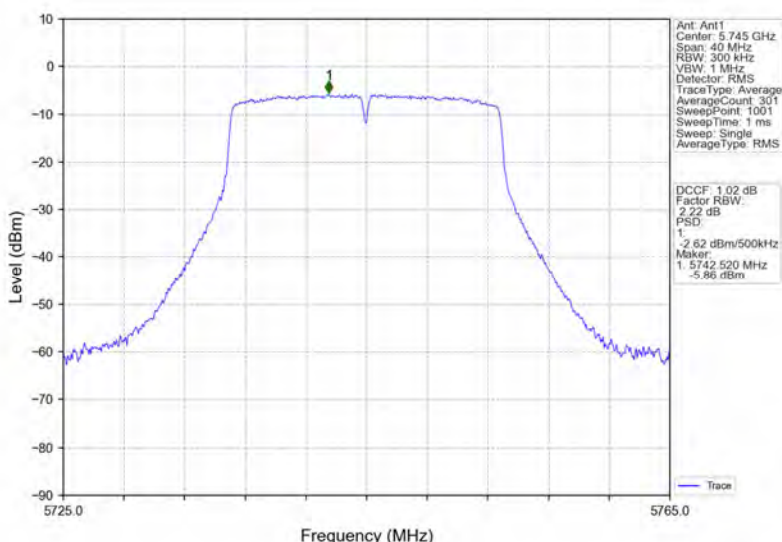
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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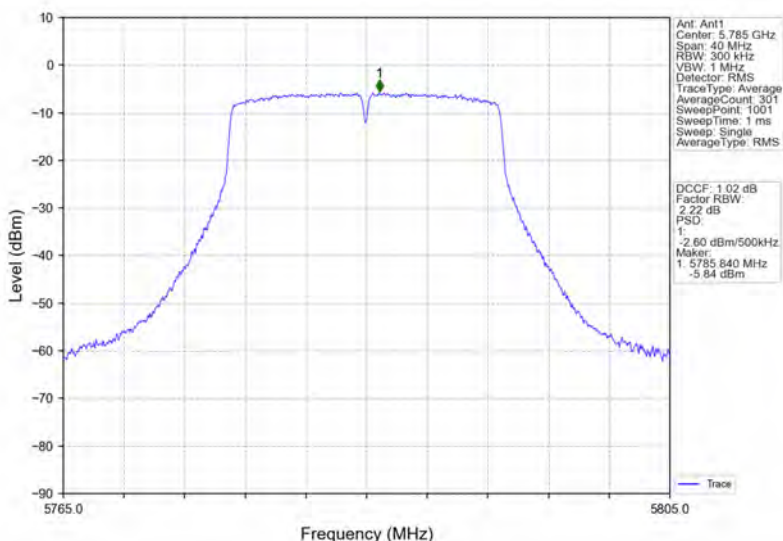
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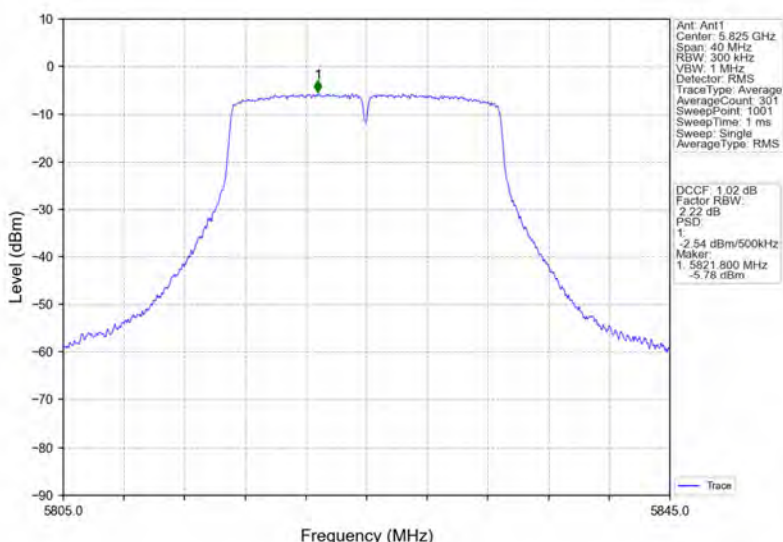
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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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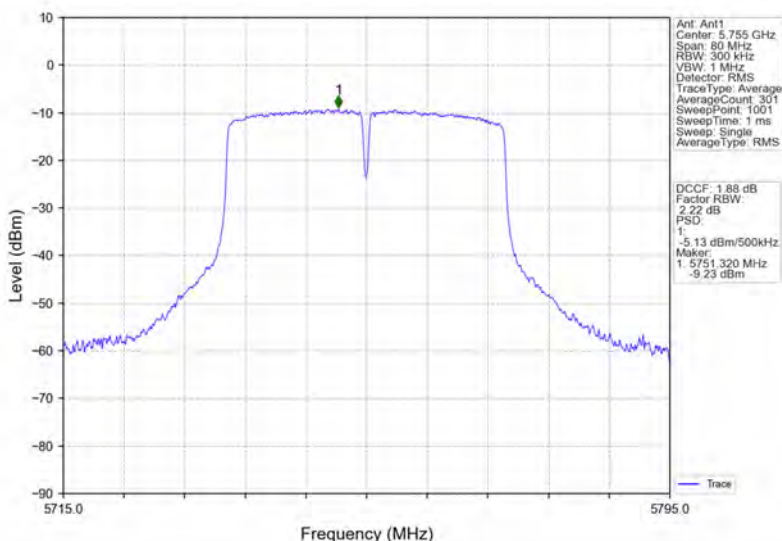
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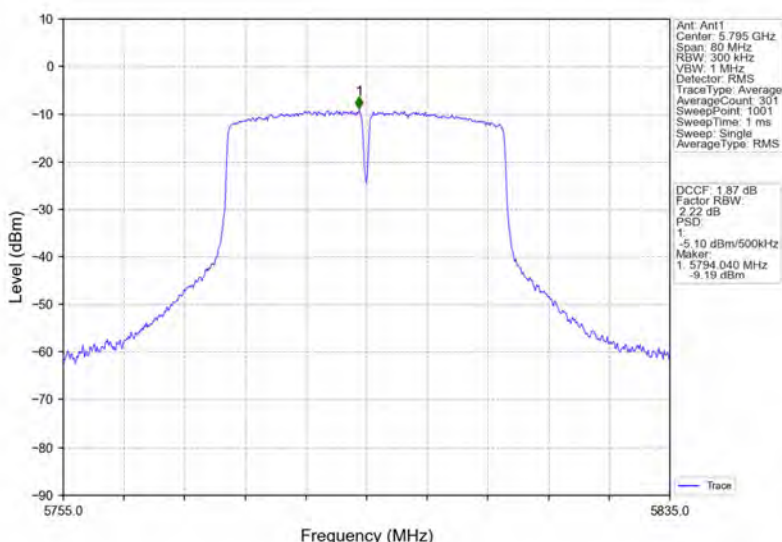
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



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 (VAC)	Measured Frequency (MHz)	Limit (MHz)	Verdict
802.11a	SISO	5180	20	102	5180.000	5150 to 5250	Pass
				120	5179.960	5150 to 5250	Pass
				138	5179.980	5150 to 5250	Pass
			-30	120	5180.020	5150 to 5250	Pass
			-20	120	5179.980	5150 to 5250	Pass
			-10	120	5180.000	5150 to 5250	Pass
			0	120	5179.980	5150 to 5250	Pass
			10	120	5179.940	5150 to 5250	Pass
			30	120	5179.960	5150 to 5250	Pass
			40	120	5180.000	5150 to 5250	Pass
			50	120	5180.000	5150 to 5250	Pass
		5200	20	102	5199.940	5150 to 5250	Pass
				120	5199.960	5150 to 5250	Pass
				138	5199.960	5150 to 5250	Pass
			-30	120	5199.940	5150 to 5250	Pass
			-20	120	5200.000	5150 to 5250	Pass
			-10	120	5200.000	5150 to 5250	Pass
			0	120	5200.020	5150 to 5250	Pass
			10	120	5199.940	5150 to 5250	Pass
			30	120	5199.960	5150 to 5250	Pass
			40	120	5199.920	5150 to 5250	Pass
			50	120	5200.020	5150 to 5250	Pass
		5240	20	102	5240.000	5150 to 5250	Pass
				120	5239.960	5150 to 5250	Pass
				138	5240.040	5150 to 5250	Pass
			-30	120	5240.020	5150 to 5250	Pass
			-20	120	5239.980	5150 to 5250	Pass
			-10	120	5239.940	5150 to 5250	Pass
			0	120	5240.000	5150 to 5250	Pass
			10	120	5240.020	5150 to 5250	Pass
			30	120	5239.980	5150 to 5250	Pass
			40	120	5239.980	5150 to 5250	Pass
			50	120	5239.920	5150 to 5250	Pass
		5745	20	102	5745.000	5725 to 5850	Pass
				120	5744.960	5725 to 5850	Pass
				138	5744.960	5725 to 5850	Pass
			-30	120	5744.960	5725 to 5850	Pass
			-20	120	5744.940	5725 to 5850	Pass
			-10	120	5744.900	5725 to 5850	Pass
			0	120	5744.960	5725 to 5850	Pass
			10	120	5744.980	5725 to 5850	Pass



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			30	120	5744.920	5725 to 5850	Pass
			40	120	5744.920	5725 to 5850	Pass
			50	120	5744.960	5725 to 5850	Pass
		5785	20	102	5784.980	5725 to 5850	Pass
				120	5784.960	5725 to 5850	Pass
				138	5784.960	5725 to 5850	Pass
			-30	120	5784.960	5725 to 5850	Pass
				120	5784.940	5725 to 5850	Pass
				120	5784.960	5725 to 5850	Pass
			-10	120	5784.960	5725 to 5850	Pass
				120	5784.920	5725 to 5850	Pass
				120	5784.940	5725 to 5850	Pass
			30	120	5784.900	5725 to 5850	Pass
				120	5784.940	5725 to 5850	Pass
				120	5784.960	5725 to 5850	Pass
		5825	20	102	5824.980	5725 to 5850	Pass
				120	5825.000	5725 to 5850	Pass
				138	5824.960	5725 to 5850	Pass
			-30	120	5824.940	5725 to 5850	Pass
				120	5824.960	5725 to 5850	Pass
				120	5824.940	5725 to 5850	Pass
			-10	120	5824.940	5725 to 5850	Pass
				120	5824.980	5725 to 5850	Pass
				120	5825.020	5725 to 5850	Pass
			30	120	5825.020	5725 to 5850	Pass
				120	5824.960	5725 to 5850	Pass
				120	5824.940	5725 to 5850	Pass
802.11n (HT20)	SISO	5180	20	102	5179.940	5150 to 5250	Pass
				120	5180.040	5150 to 5250	Pass
				138	5180.020	5150 to 5250	Pass
			-30	120	5179.880	5150 to 5250	Pass
				120	5180.000	5150 to 5250	Pass
				120	5180.000	5150 to 5250	Pass
			0	120	5180.020	5150 to 5250	Pass
				120	5179.980	5150 to 5250	Pass
				120	5179.960	5150 to 5250	Pass
			30	120	5179.960	5150 to 5250	Pass
				120	5179.940	5150 to 5250	Pass
				120	5179.940	5150 to 5250	Pass
		5200	20	102	5199.980	5150 to 5250	Pass
				120	5200.000	5150 to 5250	Pass
				138	5200.000	5150 to 5250	Pass
			-30	120	5200.020	5150 to 5250	Pass
				120	5200.060	5150 to 5250	Pass
				120	5200.000	5150 to 5250	Pass
			-10	120	5200.000	5150 to 5250	Pass
				120	5200.000	5150 to 5250	Pass
				120	5199.940	5150 to 5250	Pass
			30	120	5199.940	5150 to 5250	Pass
				120	5199.960	5150 to 5250	Pass
				120	5199.960	5150 to 5250	Pass
		5240	20	102	5240.000	5150 to 5250	Pass
				120	5239.960	5150 to 5250	Pass
				138	5239.940	5150 to 5250	Pass
			-30	120	5239.980	5150 to 5250	Pass
				120	5239.980	5150 to 5250	Pass
				120	5239.980	5150 to 5250	Pass

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SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center Eho

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			-10	120	5240.040	5150 to 5250	Pass
			0	120	5239.960	5150 to 5250	Pass
			10	120	5239.940	5150 to 5250	Pass
			30	120	5239.980	5150 to 5250	Pass
			40	120	5240.060	5150 to 5250	Pass
			50	120	5240.020	5150 to 5250	Pass
		5745	20	102	5744.960	5725 to 5850	Pass
				120	5744.840	5725 to 5850	Pass
				138	5745.000	5725 to 5850	Pass
			-30	120	5744.900	5725 to 5850	Pass
			-20	120	5744.920	5725 to 5850	Pass
			-10	120	5744.980	5725 to 5850	Pass
			0	120	5744.960	5725 to 5850	Pass
			10	120	5745.020	5725 to 5850	Pass
			30	120	5744.980	5725 to 5850	Pass
			40	120	5744.920	5725 to 5850	Pass
			50	120	5744.900	5725 to 5850	Pass
		5785	20	102	5784.940	5725 to 5850	Pass
				120	5784.860	5725 to 5850	Pass
				138	5784.980	5725 to 5850	Pass
			-30	120	5784.940	5725 to 5850	Pass
			-20	120	5785.040	5725 to 5850	Pass
			-10	120	5784.900	5725 to 5850	Pass
			0	120	5784.960	5725 to 5850	Pass
			10	120	5785.040	5725 to 5850	Pass
			30	120	5784.980	5725 to 5850	Pass
			40	120	5784.880	5725 to 5850	Pass
		5825	20	102	5824.920	5725 to 5850	Pass
				120	5824.900	5725 to 5850	Pass
				138	5825.020	5725 to 5850	Pass
			-30	120	5824.940	5725 to 5850	Pass
			-20	120	5824.980	5725 to 5850	Pass
			-10	120	5824.980	5725 to 5850	Pass
			0	120	5824.940	5725 to 5850	Pass
			10	120	5825.060	5725 to 5850	Pass
			30	120	5824.940	5725 to 5850	Pass
			40	120	5824.920	5725 to 5850	Pass
802.11n (HT40)	SISO	5190	20	102	5189.960	5150 to 5250	Pass
				120	5189.960	5150 to 5250	Pass
				138	5190.000	5150 to 5250	Pass
			-30	120	5189.960	5150 to 5250	Pass
			-20	120	5189.960	5150 to 5250	Pass
			-10	120	5189.960	5150 to 5250	Pass
			0	120	5190.000	5150 to 5250	Pass
			10	120	5190.000	5150 to 5250	Pass
			30	120	5189.960	5150 to 5250	Pass
			40	120	5190.000	5150 to 5250	Pass
			50	120	5189.880	5150 to 5250	Pass
		5230	20	102	5229.960	5150 to 5250	Pass
				120	5229.920	5150 to 5250	Pass

				138	5229.960	5150 to 5250	Pass
			-30	120	5229.920	5150 to 5250	Pass
			-20	120	5230.000	5150 to 5250	Pass
			-10	120	5229.960	5150 to 5250	Pass
			0	120	5229.960	5150 to 5250	Pass
			10	120	5229.960	5150 to 5250	Pass
			30	120	5229.960	5150 to 5250	Pass
			40	120	5229.960	5150 to 5250	Pass
			50	120	5229.960	5150 to 5250	Pass
		5755	20	102	5754.920	5725 to 5850	Pass
				120	5754.920	5725 to 5850	Pass
				138	5754.920	5725 to 5850	Pass
			-30	120	5754.880	5725 to 5850	Pass
			-20	120	5754.920	5725 to 5850	Pass
			-10	120	5754.920	5725 to 5850	Pass
			0	120	5754.920	5725 to 5850	Pass
			10	120	5754.960	5725 to 5850	Pass
			30	120	5754.920	5725 to 5850	Pass
			40	120	5754.920	5725 to 5850	Pass
			50	120	5754.920	5725 to 5850	Pass
		5795	20	102	5794.920	5725 to 5850	Pass
				120	5794.920	5725 to 5850	Pass
				138	5794.920	5725 to 5850	Pass
			-30	120	5794.920	5725 to 5850	Pass
			-20	120	5794.920	5725 to 5850	Pass
			-10	120	5794.920	5725 to 5850	Pass
			0	120	5794.920	5725 to 5850	Pass
			10	120	5794.920	5725 to 5850	Pass
			30	120	5794.920	5725 to 5850	Pass
			40	120	5794.920	5725 to 5850	Pass
			50	120	5794.920	5725 to 5850	Pass



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