Appendix D for KSCR220300041304

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	2.067	2.086	99.09	0.04	0.04
		5200	2.065	2.086	98.99	0.04	0.04
		5240	2.065	2.085	99.04	0.04	0.07
		5260	2.065	2.086	98.99	0.04	0.07
		5300	2.065	2.086	98.99	0.04	0.07
		5320	2.065	2.086	98.99	0.04	0.07
		5500	2.066	2.086	99.04	0.04	0.04
		5580	2.065	2.085	99.04	0.04	0.04
		5700	2.066	2.086	99.04	0.04	0.04
		5745	2.066	2.085	99.09	0.04	0.04
		5785	2.066	2.086	99.04	0.04	0.07
		5825	2.065	2.086	98.99	0.04	0.07
802.11n (HT20)	SISO	5180	1.337	1.387	96.40	0.16	0.07
		5200	1.337	1.387	96.40	0.16	0.03
		5240	1.337	1.388	96.33	0.16	0.03
		5260	1.337	1.387	96.40	0.16	0.03
		5300	1.337	1.388	96.33	0.16	0.07
		5320	1.337	1.387	96.40	0.16	0.03
		5500	1.338	1.387	96.47	0.16	0.03
		5580	1.337	1.388	96.33	0.16	0.03
		5700	1.338	1.389	96.33	0.16	0.10
		5745	1.337	1.388	96.33	0.16	0.10
		5785	1.337	1.387	96.40	0.16	0.03
		5825	1.337	1.387	96.40	0.16	0.00
802.11n (HT40)	SISO	5190	0.101	0.201	50.25	2.99	0.12
		5230	0.100	0.202	49.50	3.05	0.08
		5270	0.101	0.202	50.00	3.01	0.13
		5310	0.102	0.202	50.50	2.97	0.08
		5510	0.102	0.201	50.75	2.95	0.13
		5550	0.105	0.202	51.98	2.84	0.07
		5670	0.101	0.201	50.25	2.99	0.08
		5755	0.105	0.202	51.98	2.84	0.31
		5795	0.104	0.202	51.49	2.88	0.03
802.11ac (VHT20)	SISO	5180	1.344	1.445	93.01	0.31	0.03
		5200	1.345	1.446	93.02	0.31	0.03
		5240	1.345	1.446	93.02	0.31	0.07
		5260	1.346	1.446	93.08	0.31	0.03
		5300	1.345	1.445	93.08	0.31	0.04

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		5320	1.345	1.446	93.02	0.31	0.09
		5500	1.344	1.446	92.95	0.32	0.07
		5580	1.346	1.446	93.08	0.31	0.07
		5700	1.346	1.445	93.15	0.31	0.03
		5745	1.345	1.446	93.02	0.31	0.03
		5785	1.345	1.446	93.02	0.31	0.10
		5825	1.344	1.445	93.01	0.31	0.03
802.11ac (VHT40)	SISO	5190	0.959	1.054	90.99	0.41	0.00
		5230	0.951	1.053	90.31	0.44	0.03
		5270	0.952	1.054	90.32	0.44	0.03
		5310	0.958	1.054	90.89	0.41	0.07
		5510	0.955	1.053	90.69	0.42	0.03
		5550	0.956	1.054	90.70	0.42	0.07
		5670	0.954	1.053	90.60	0.43	0.04
		5755	0.956	1.054	90.70	0.42	0.07
		5795	0.952	1.053	90.41	0.44	0.03
802.11ac (VHT80)	SISO	5210	0.466	0.562	82.92	0.81	0.07
		5290	0.466	0.561	83.07	0.81	0.11
		5530	0.464	0.562	82.56	0.83	0.03
		5610	0.463	0.561	82.53	0.83	0.04
		5775	0.465	0.562	82.74	0.82	0.11

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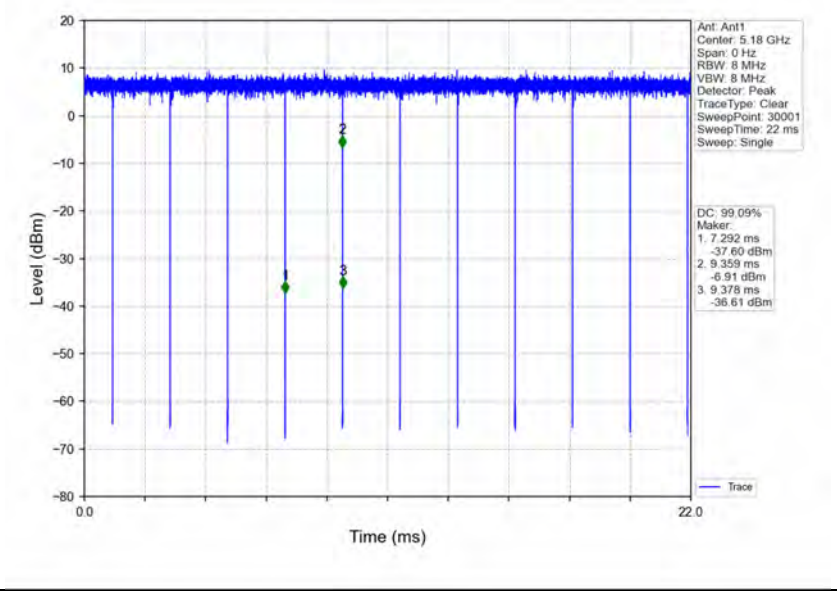
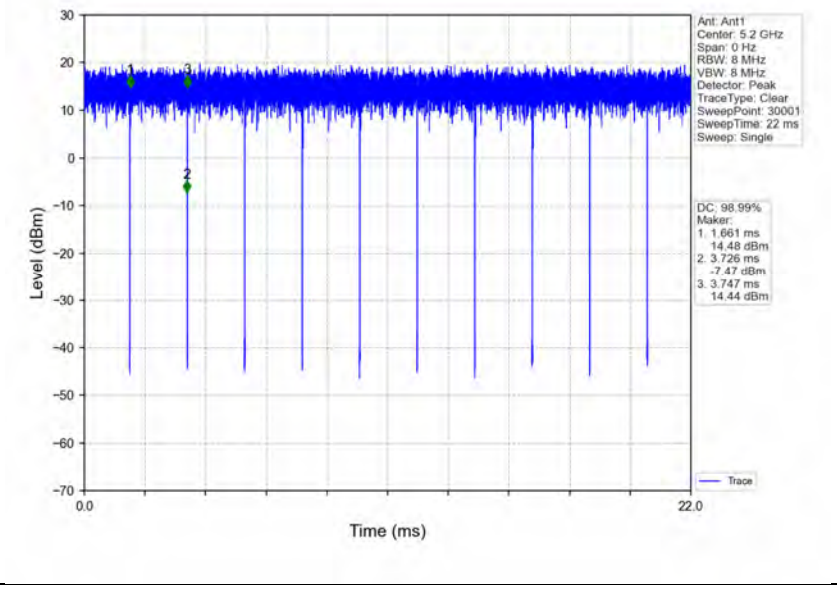
1.1.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV



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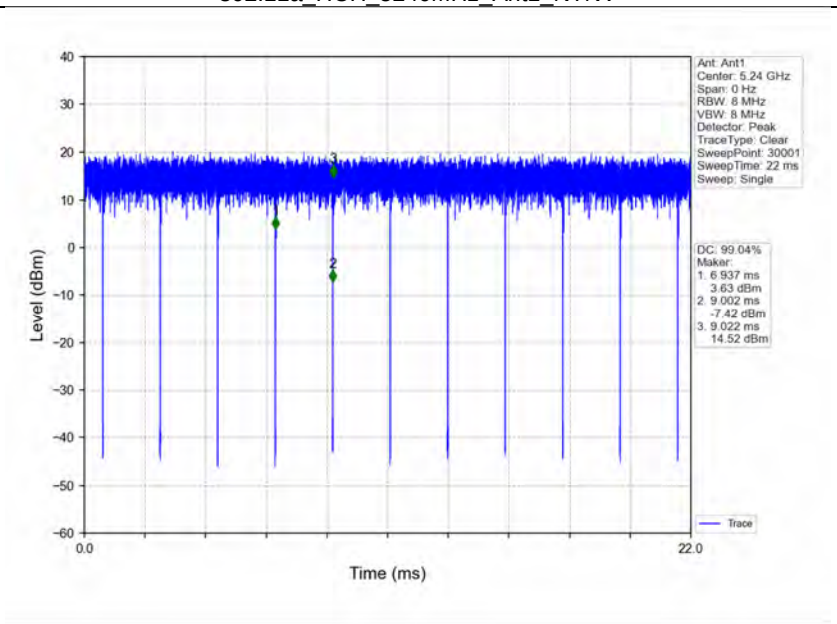
802.11a_HCH_5240MHz_Ant1_NTNV



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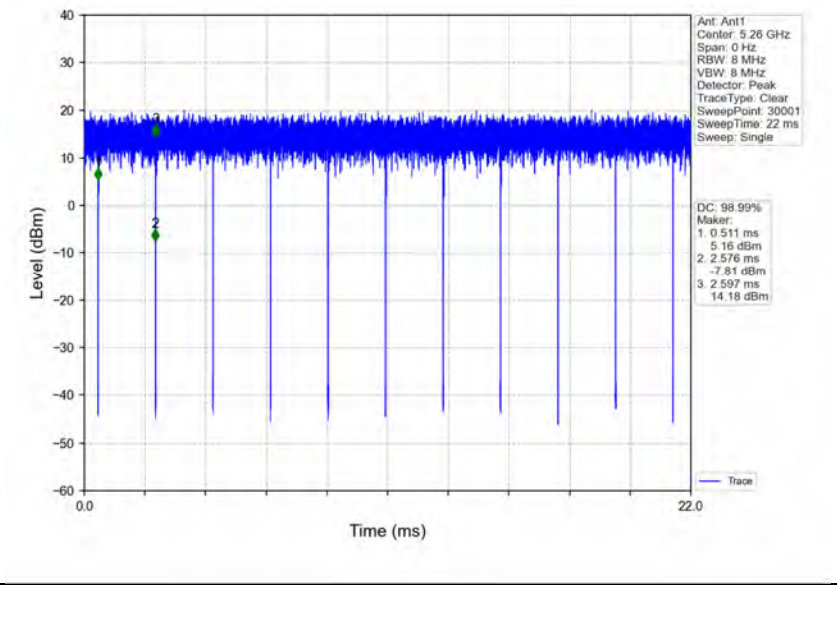

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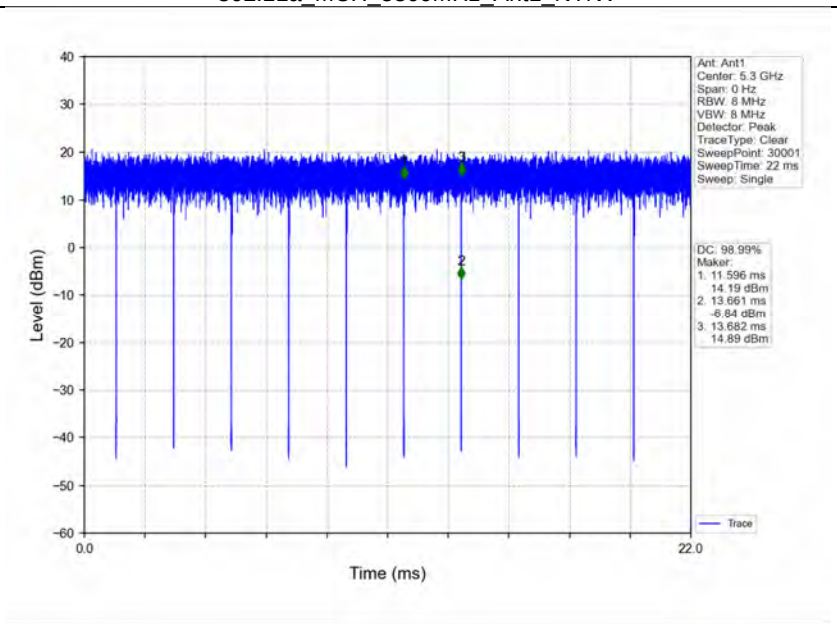
802.11a_MCH_5300MHz_Ant1_NTNV



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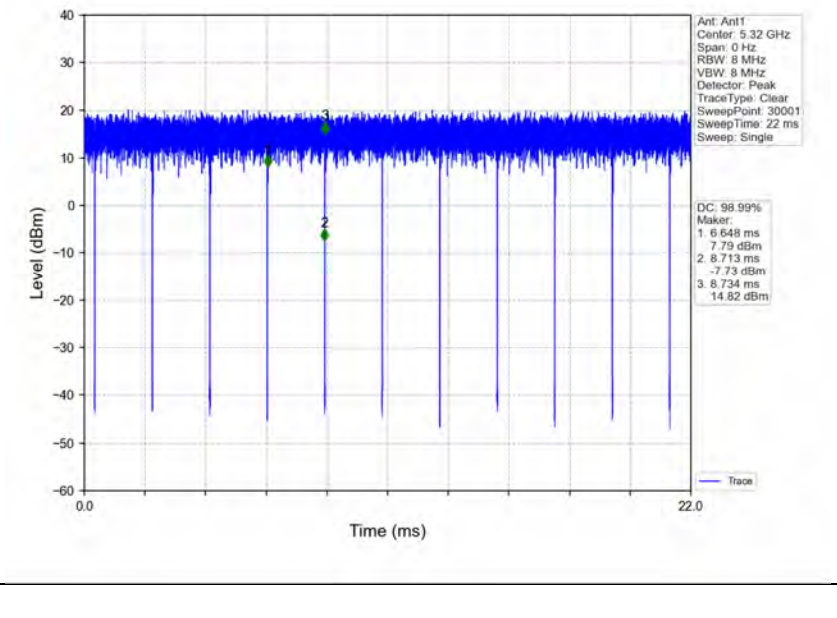

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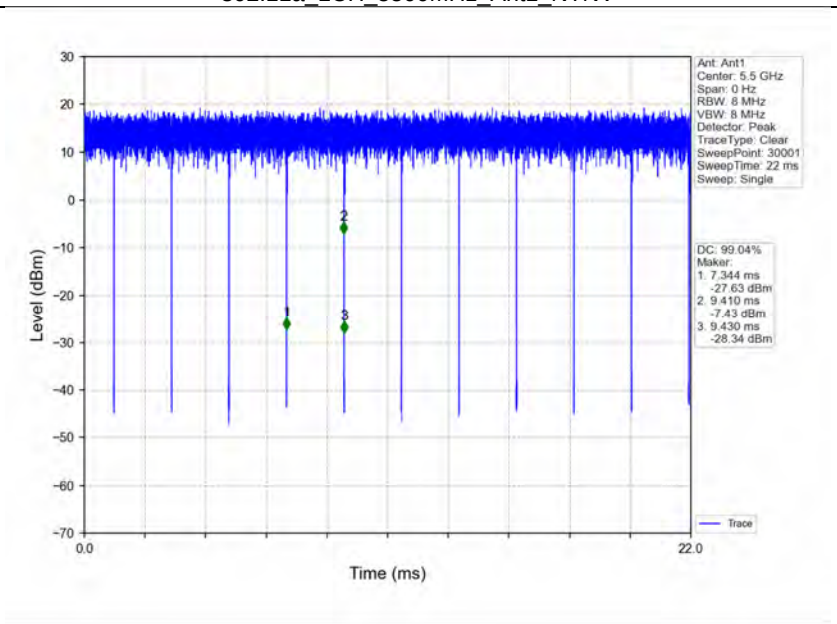
802.11a_LCH_5500MHz_Ant1_NTNV



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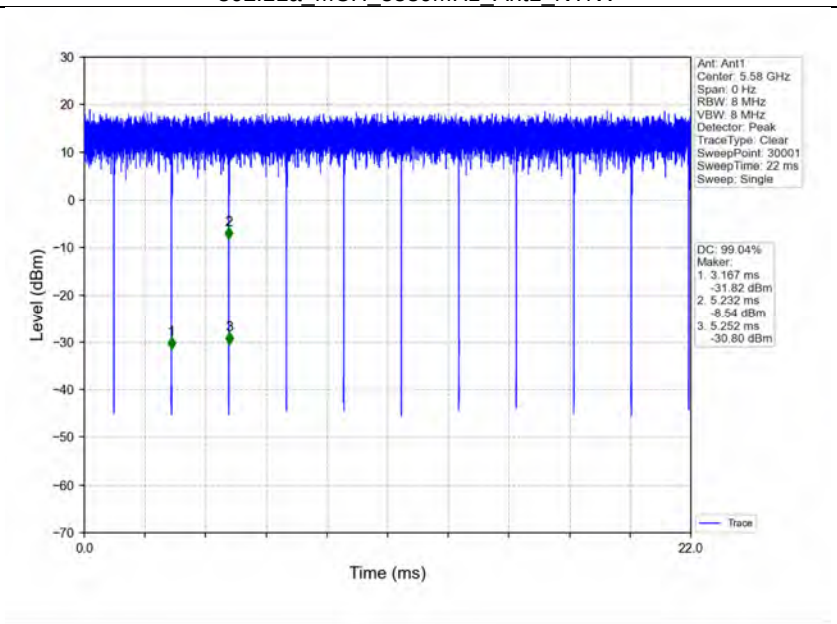

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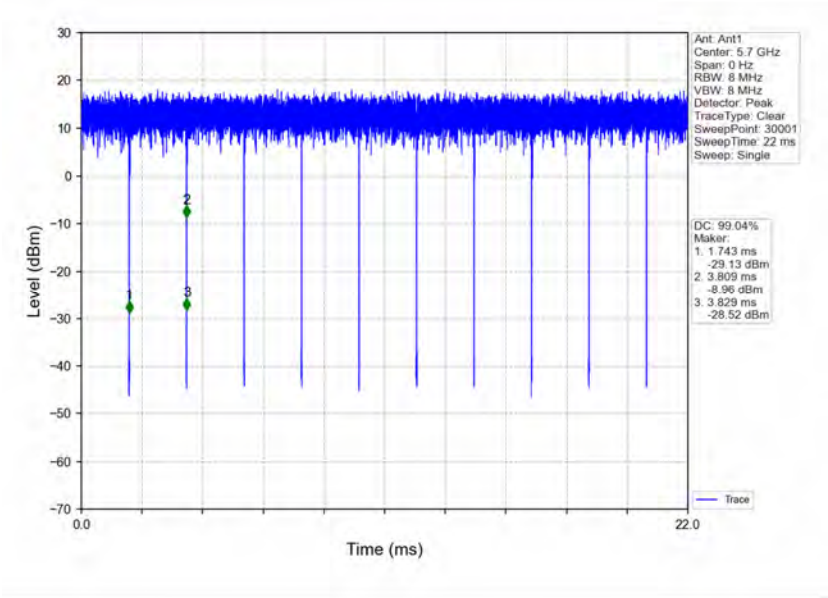
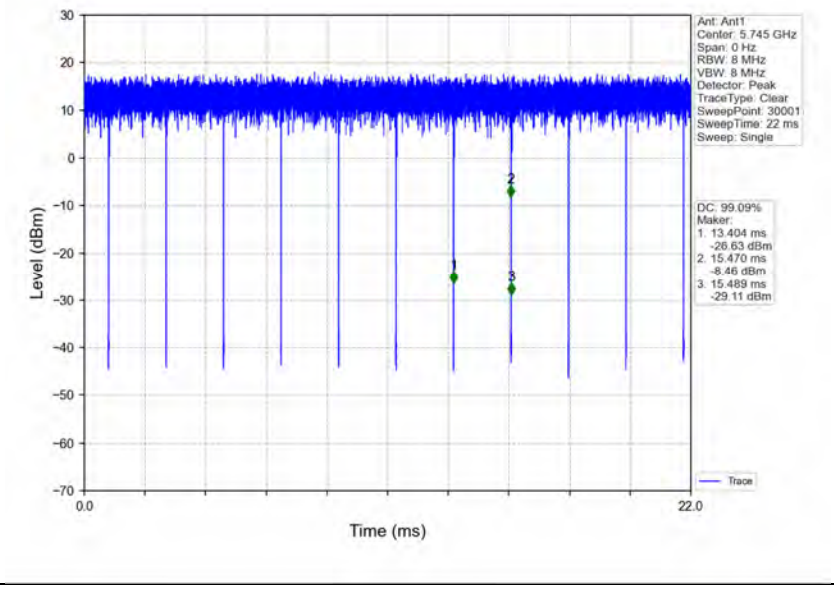
802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



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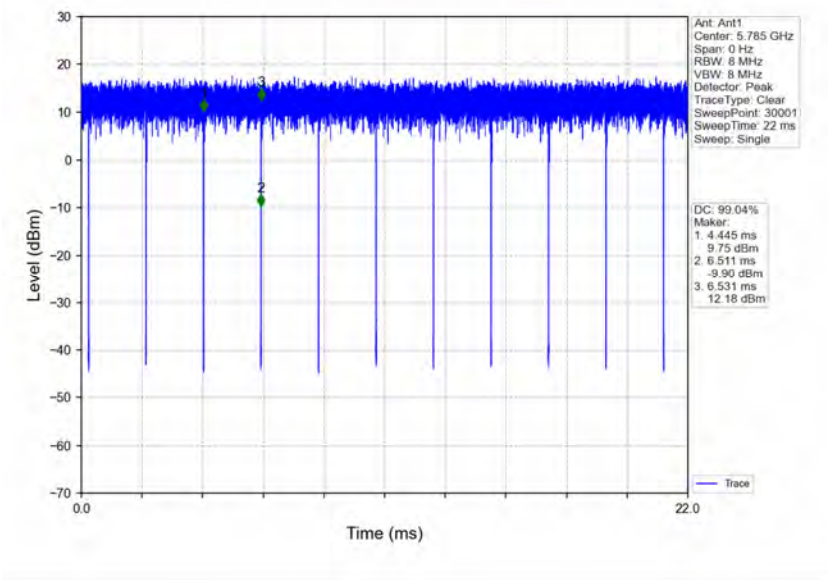
802.11a_MCH_5785MHz_Ant1_NTNV



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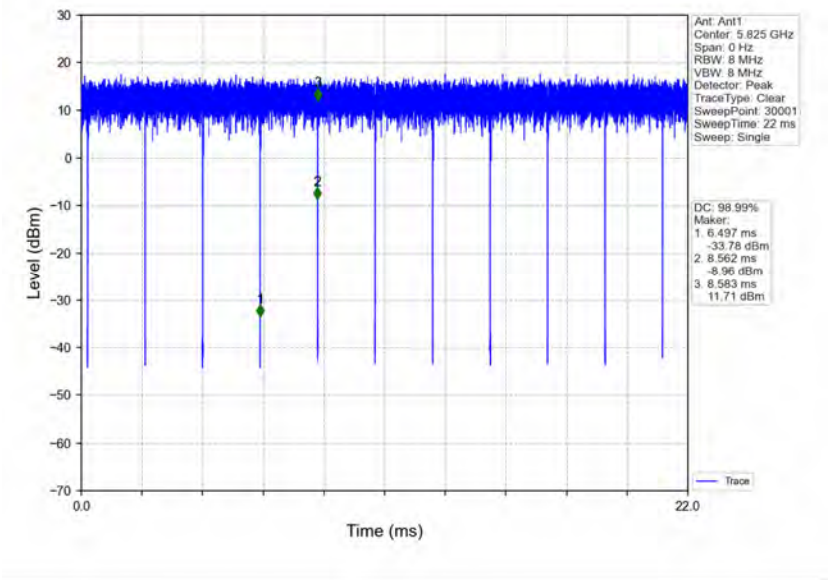

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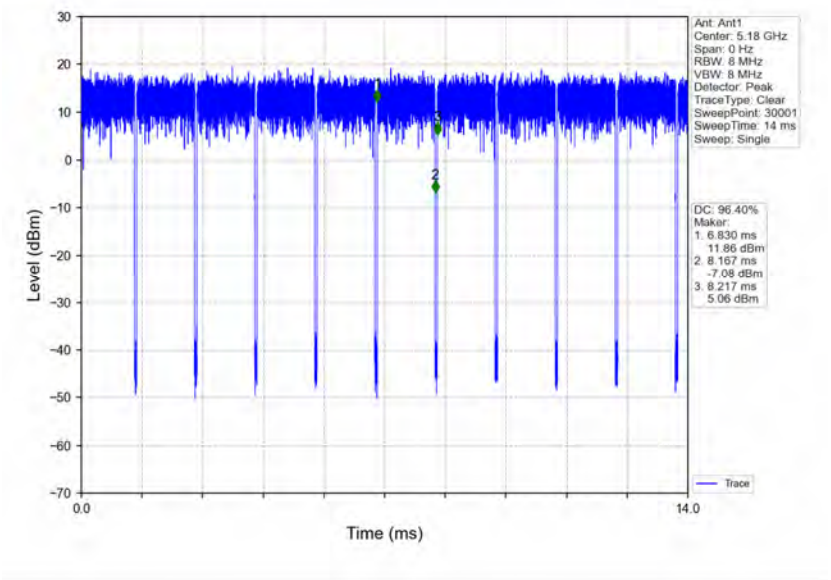
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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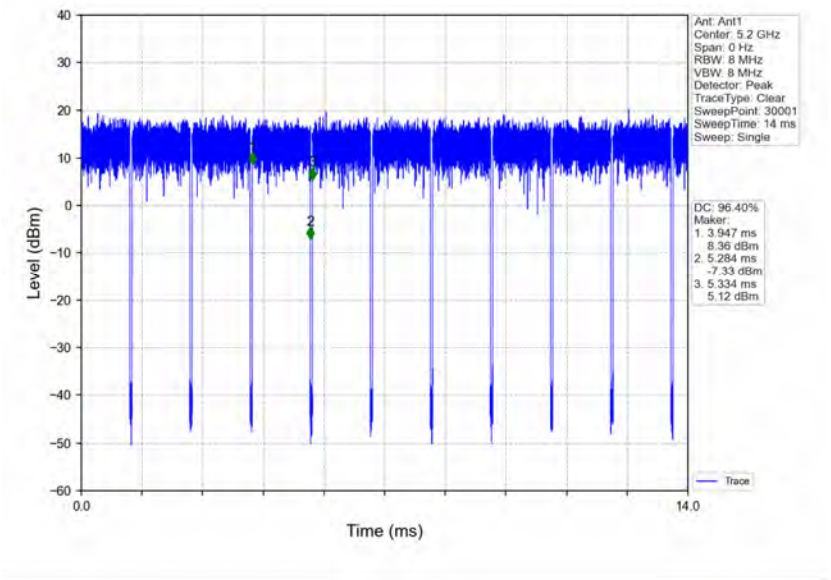

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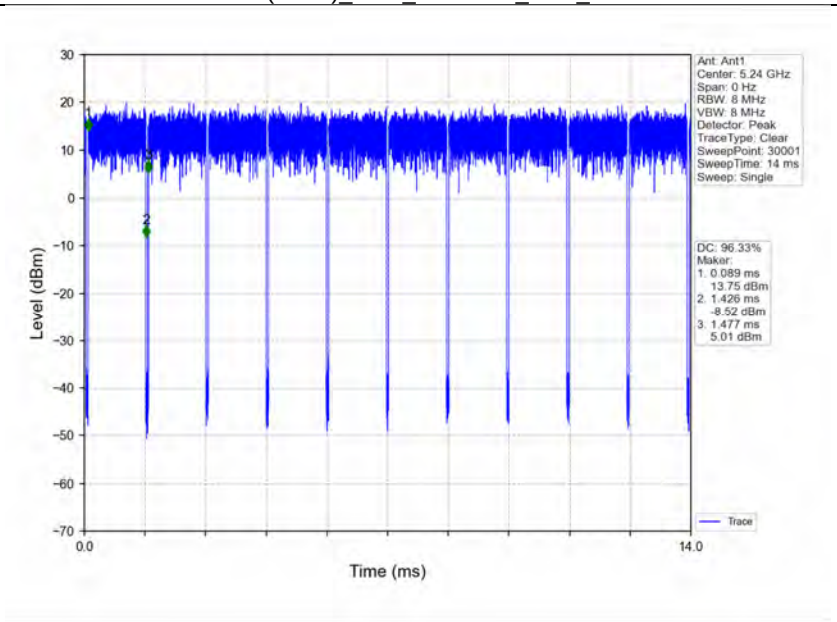
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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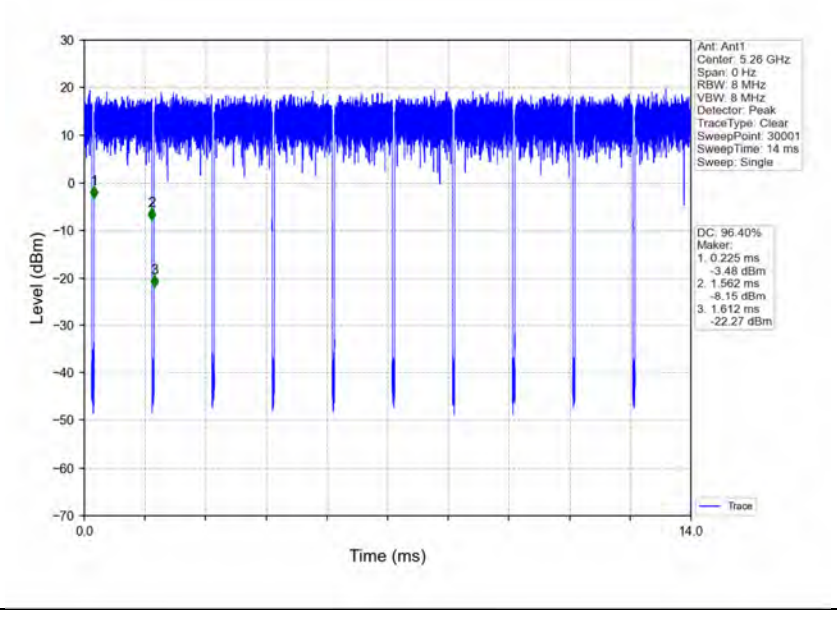

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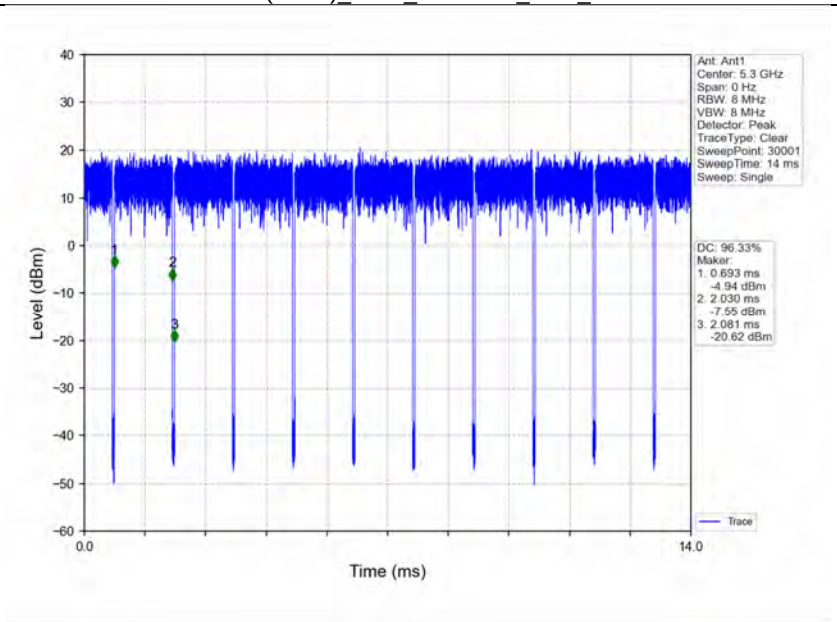
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



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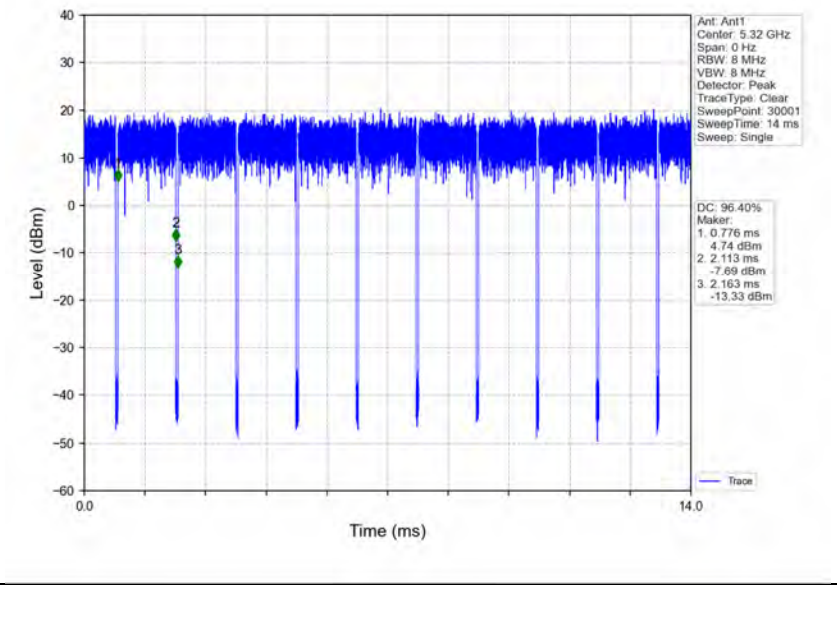

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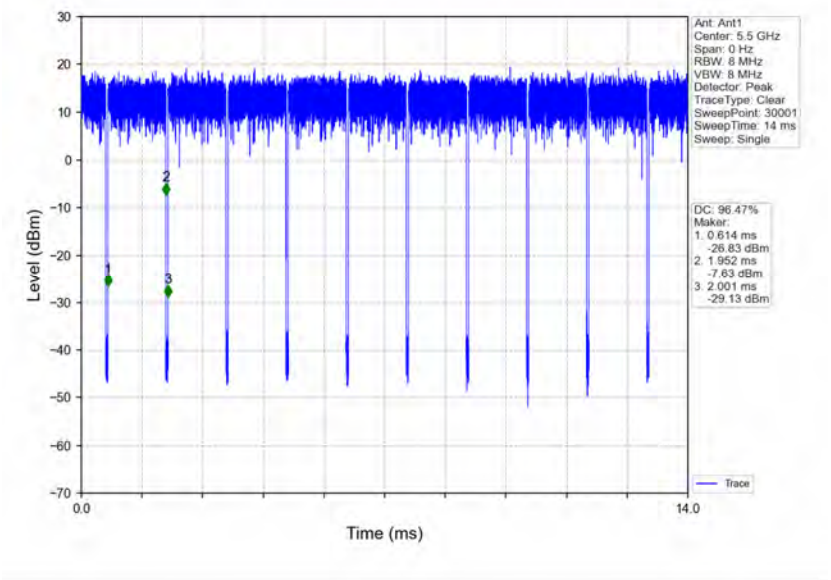
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



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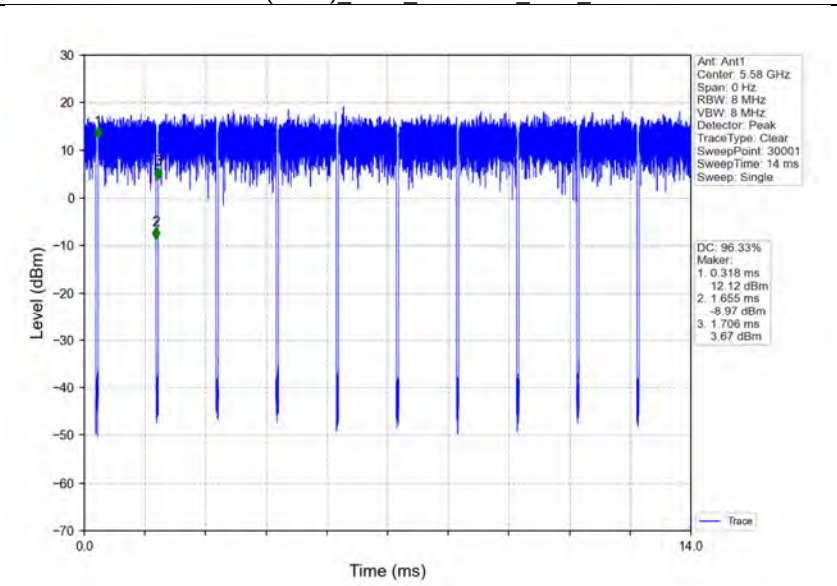

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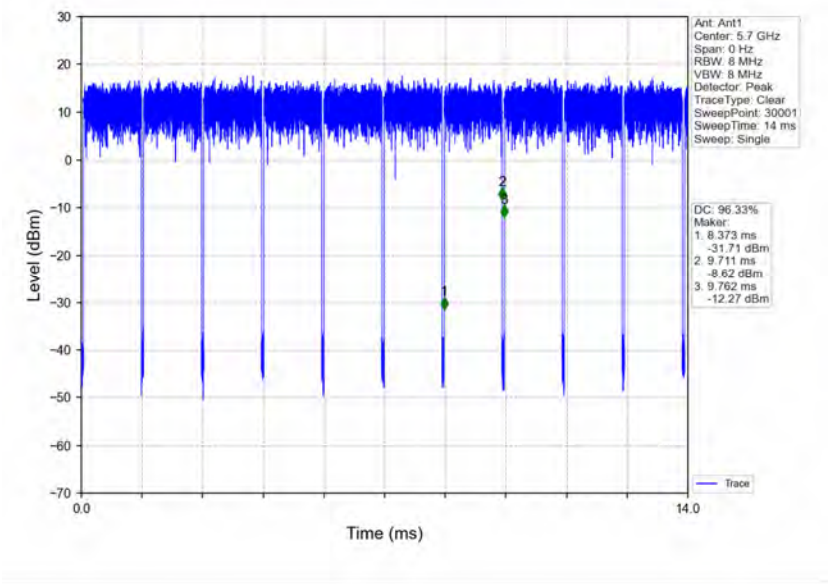
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



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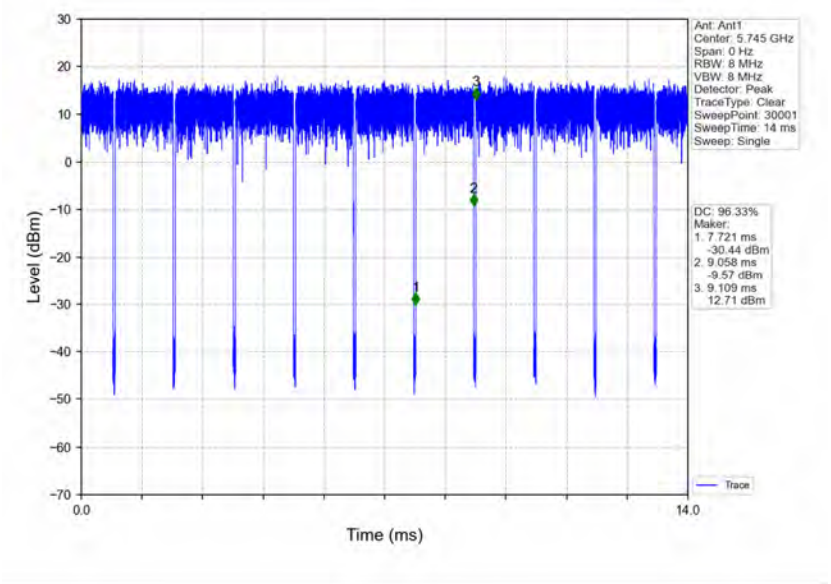

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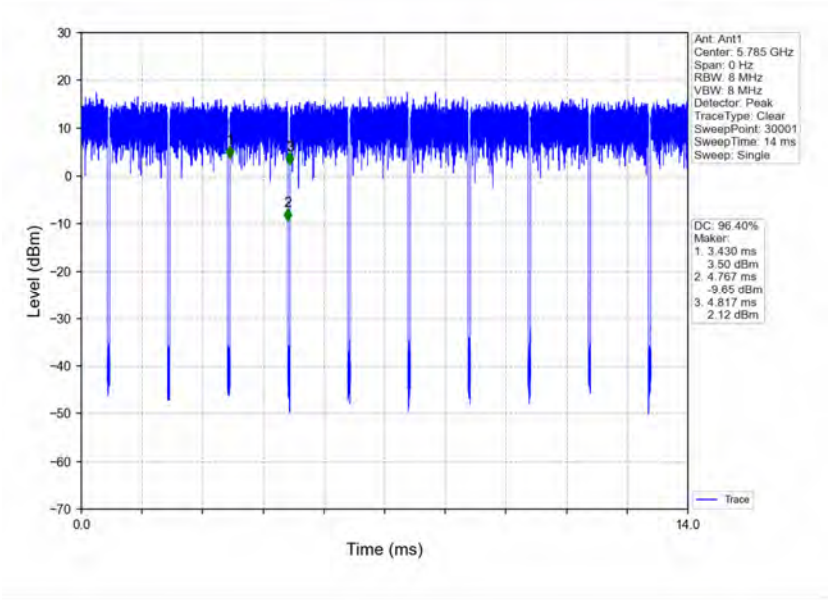
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



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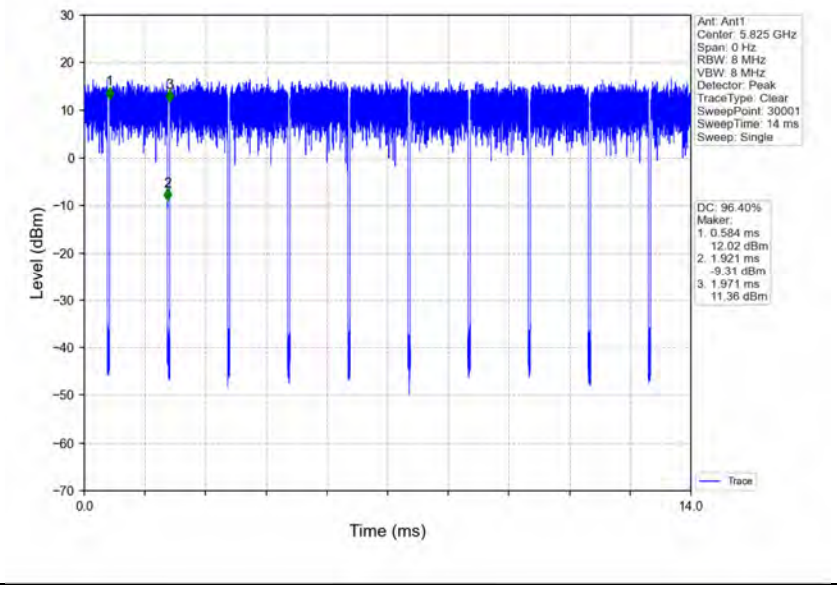

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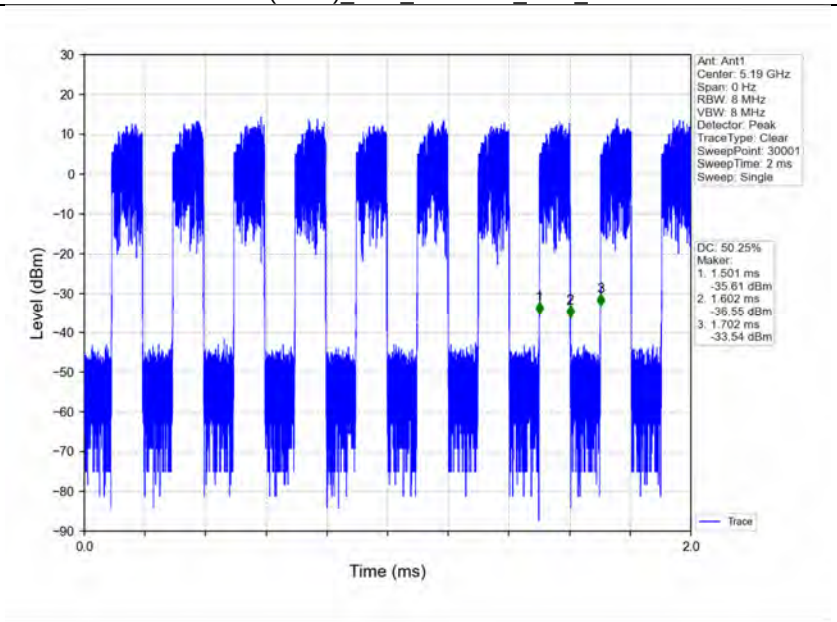
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



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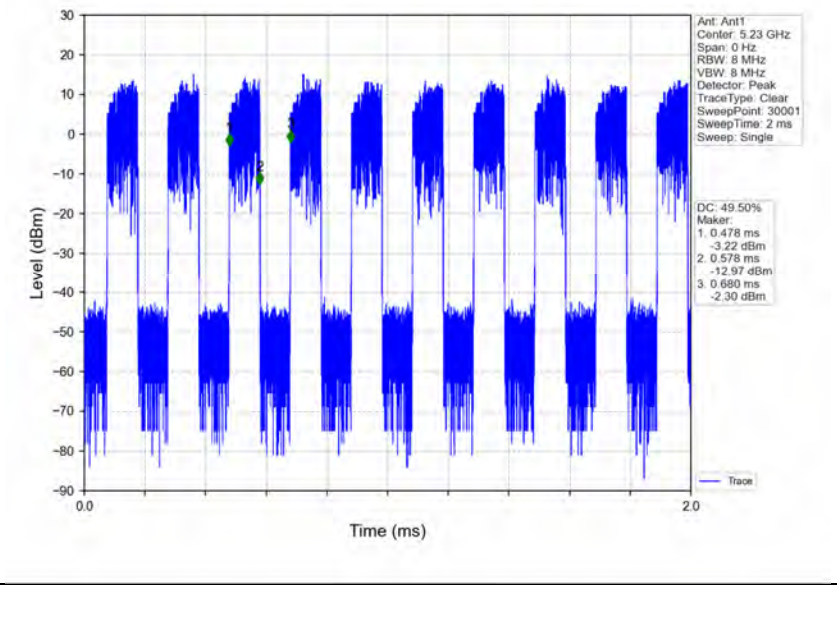

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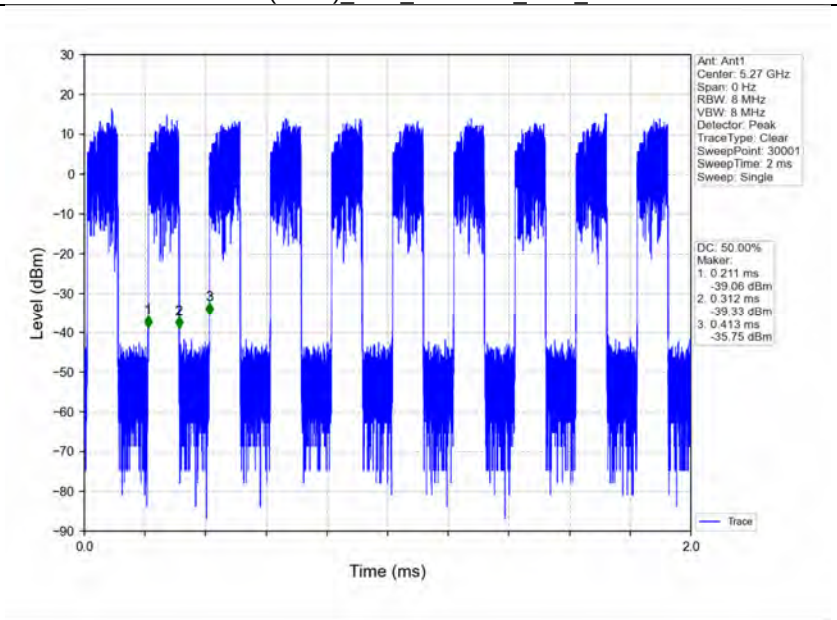
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



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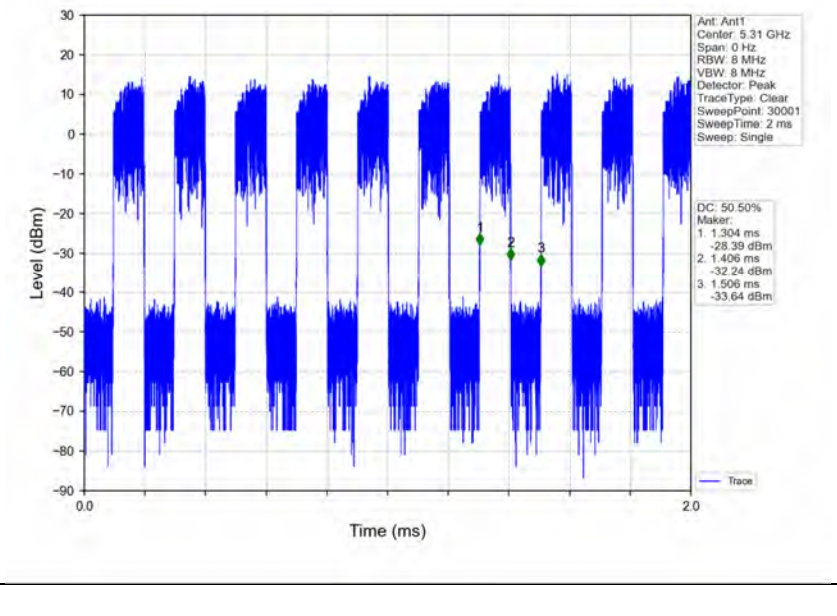

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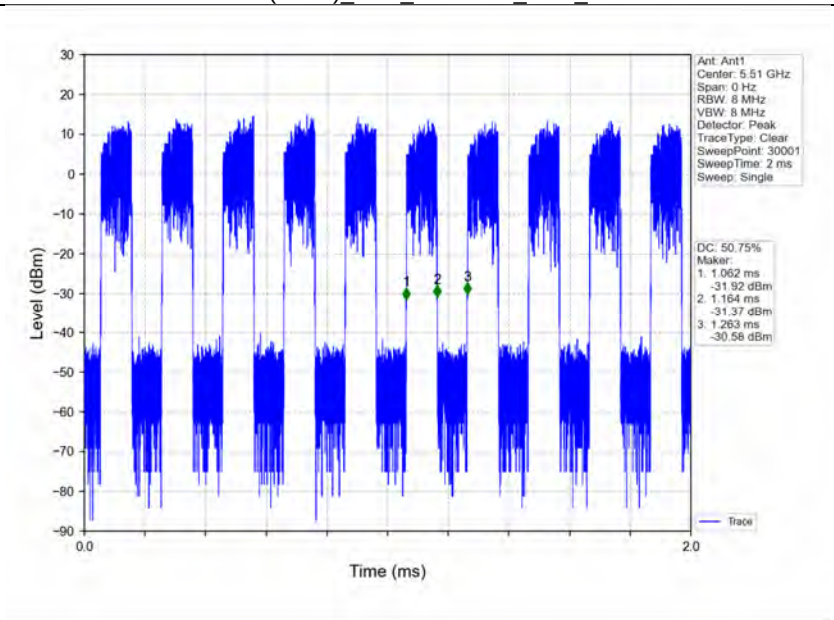
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



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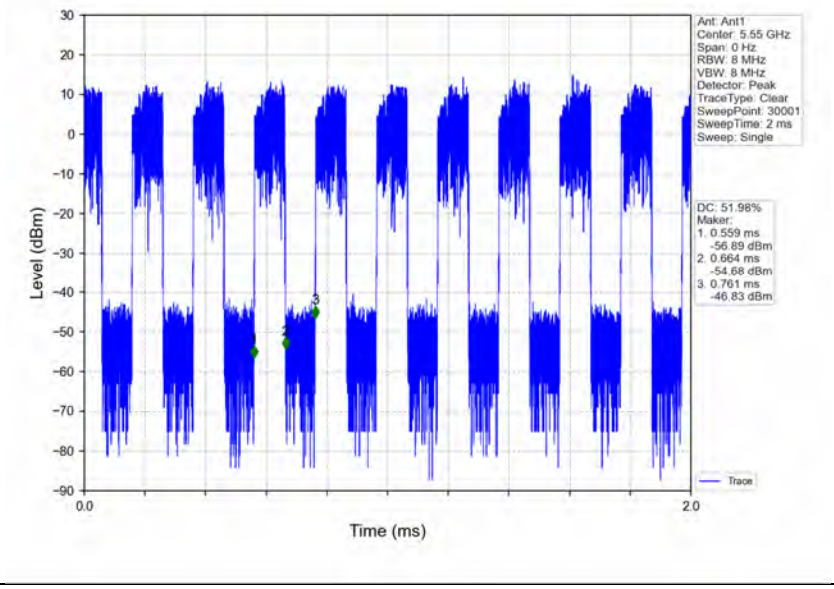

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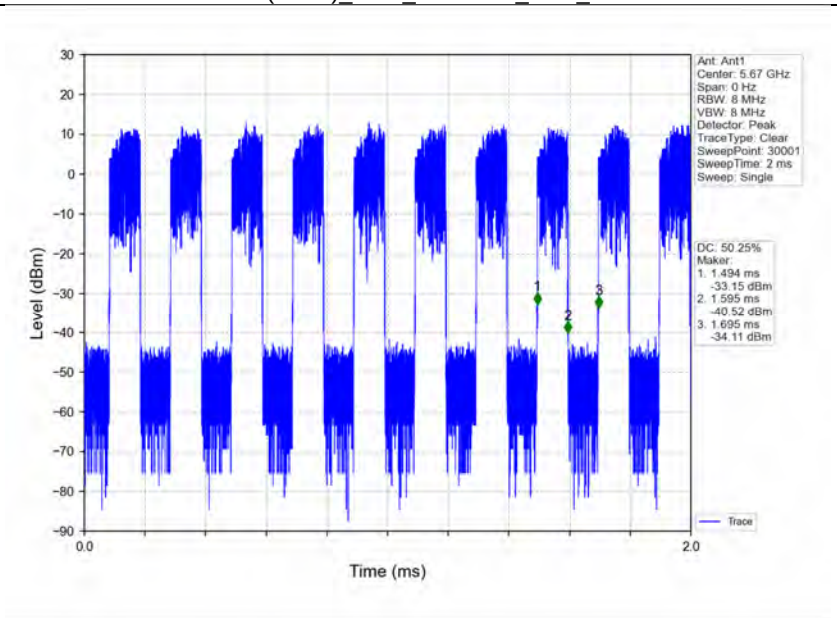
802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



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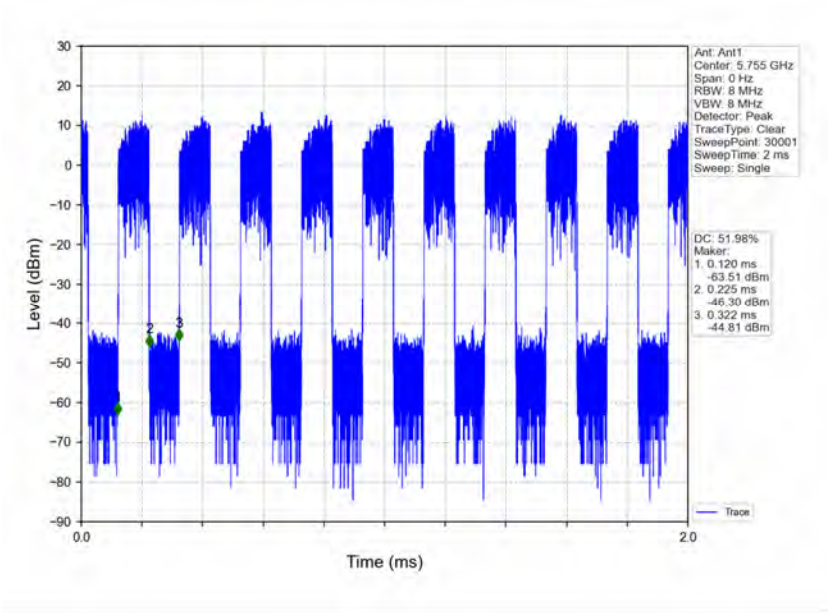

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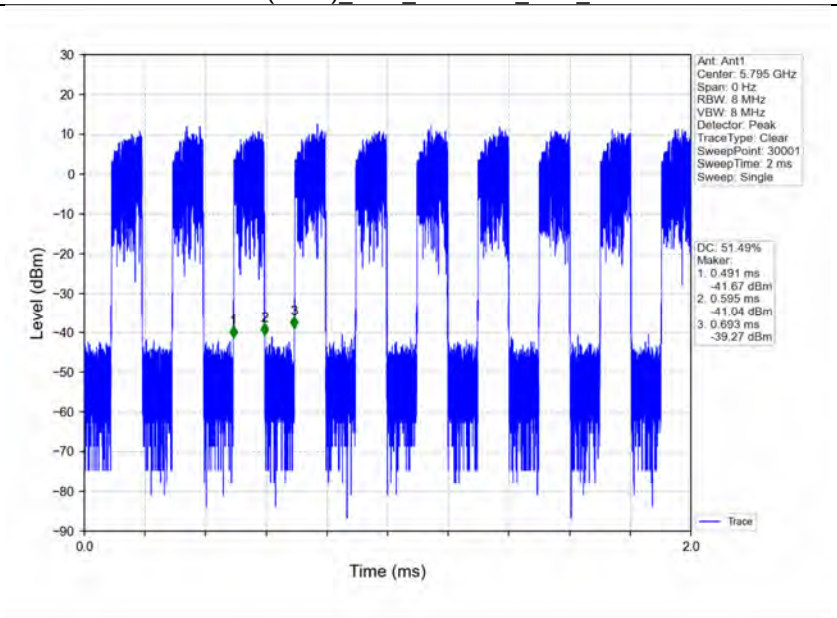
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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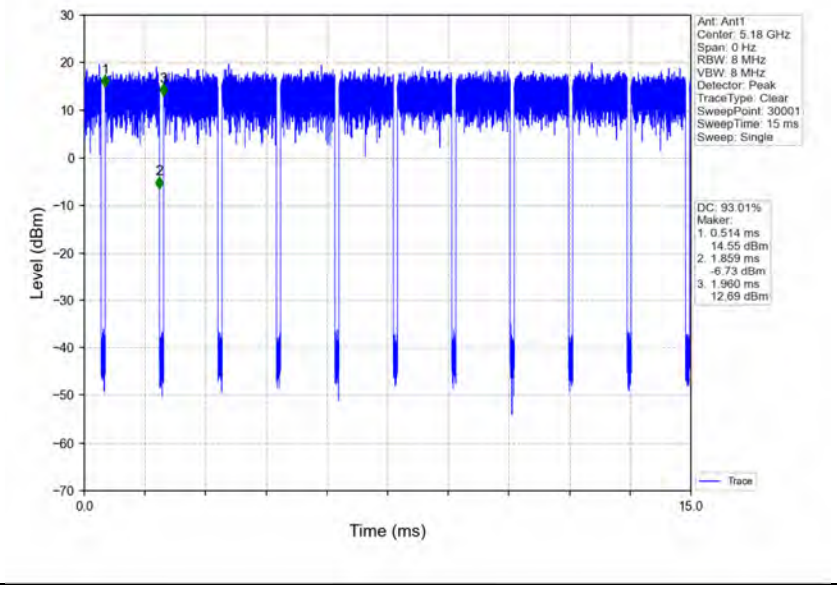

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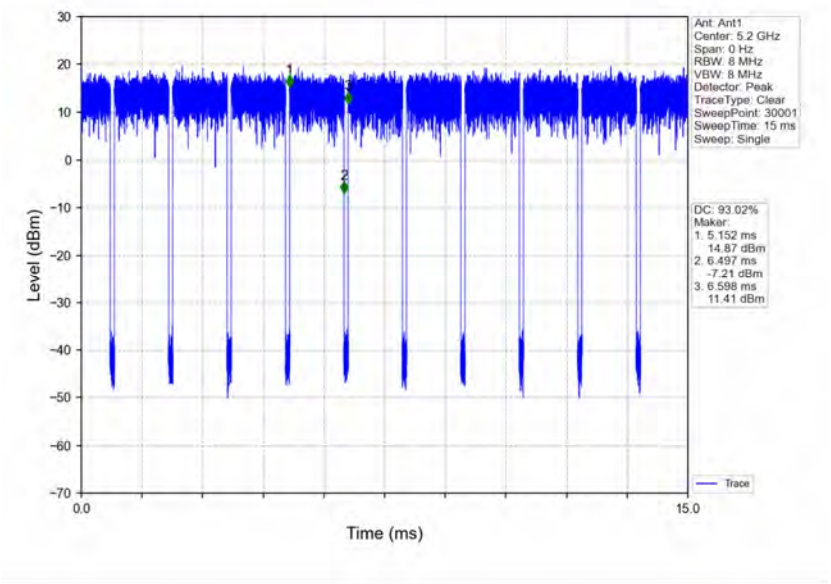
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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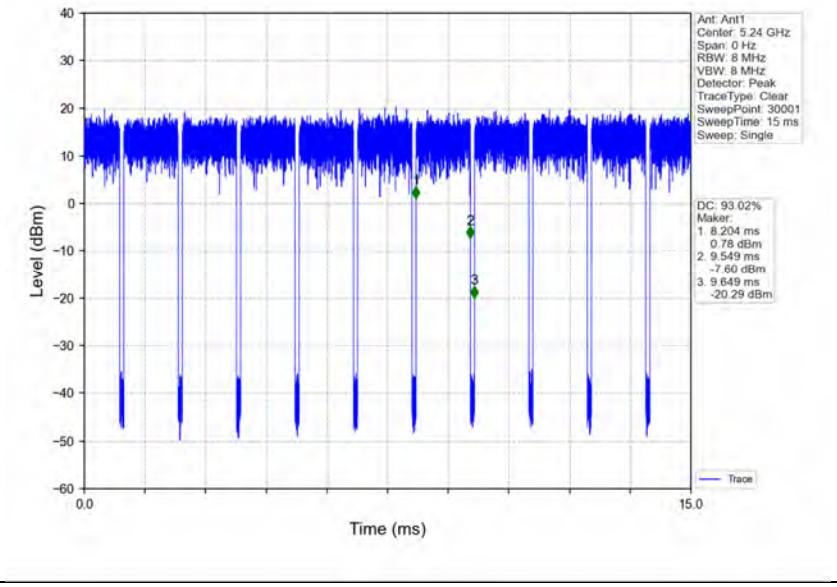

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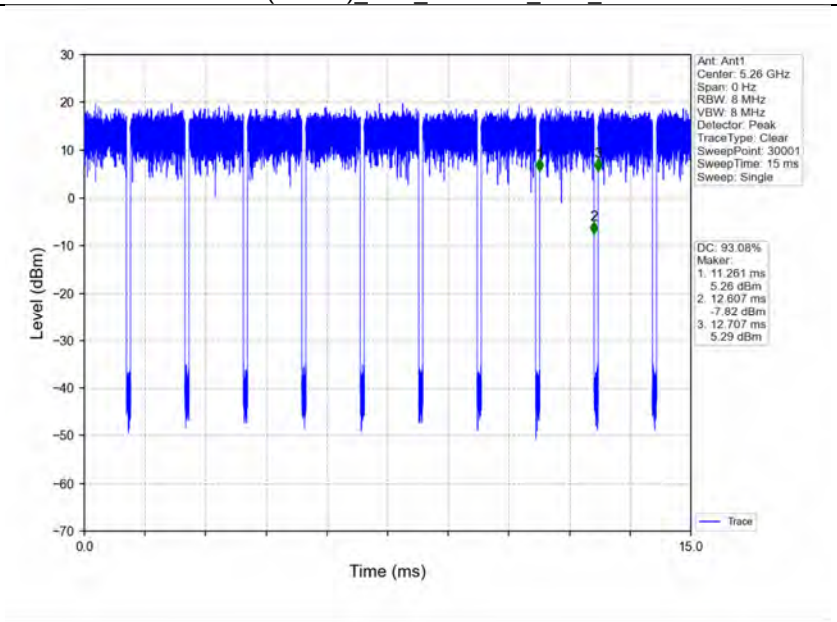
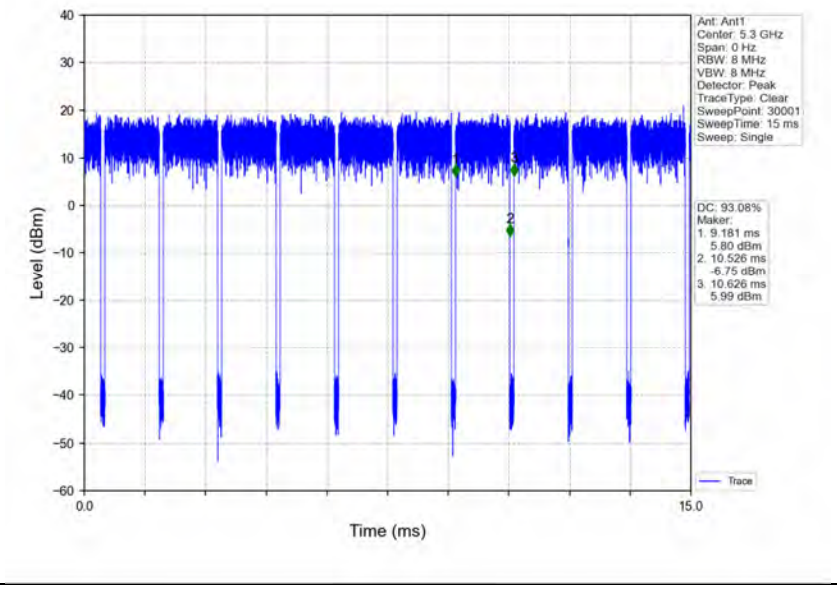
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



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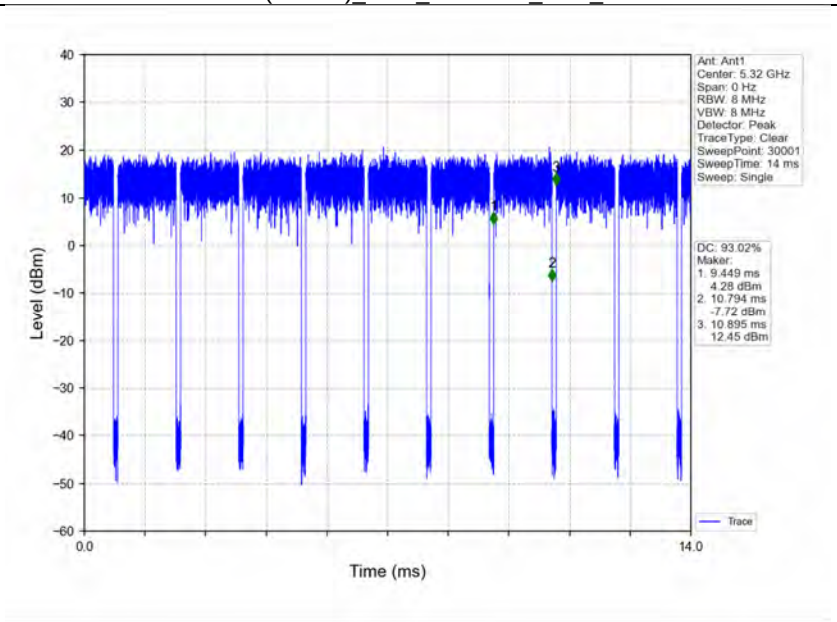
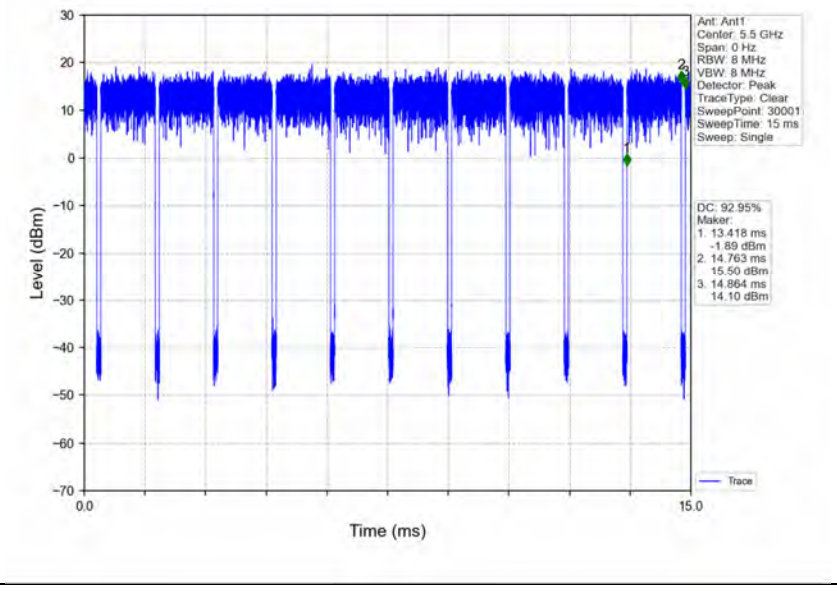
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



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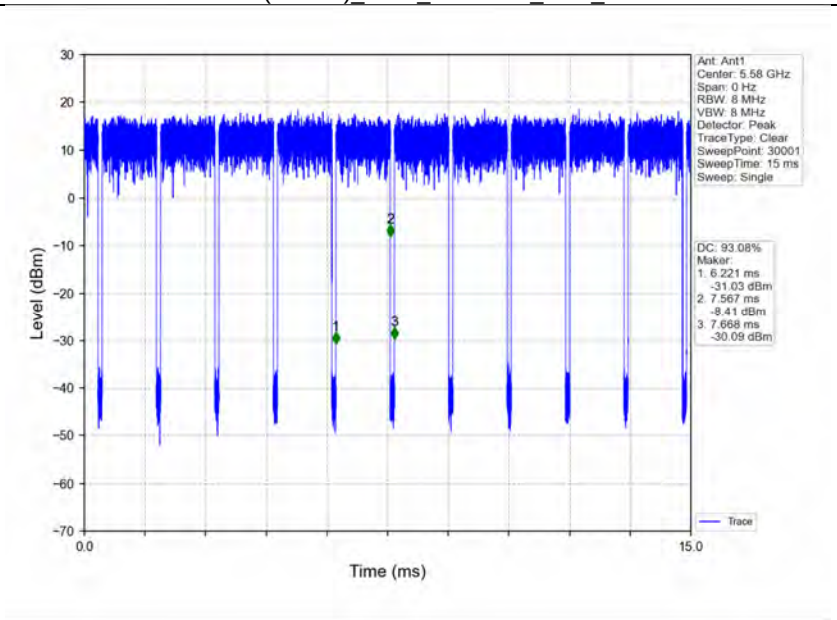
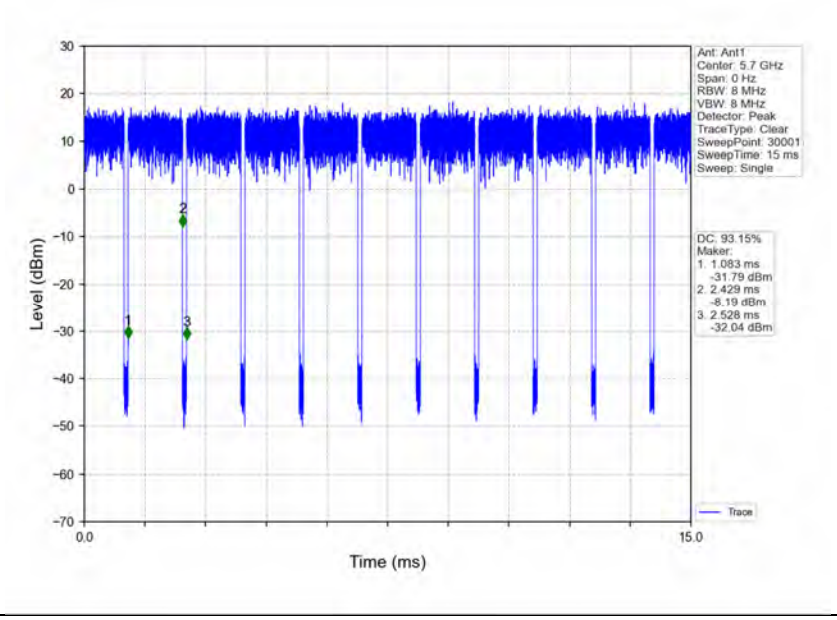


802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



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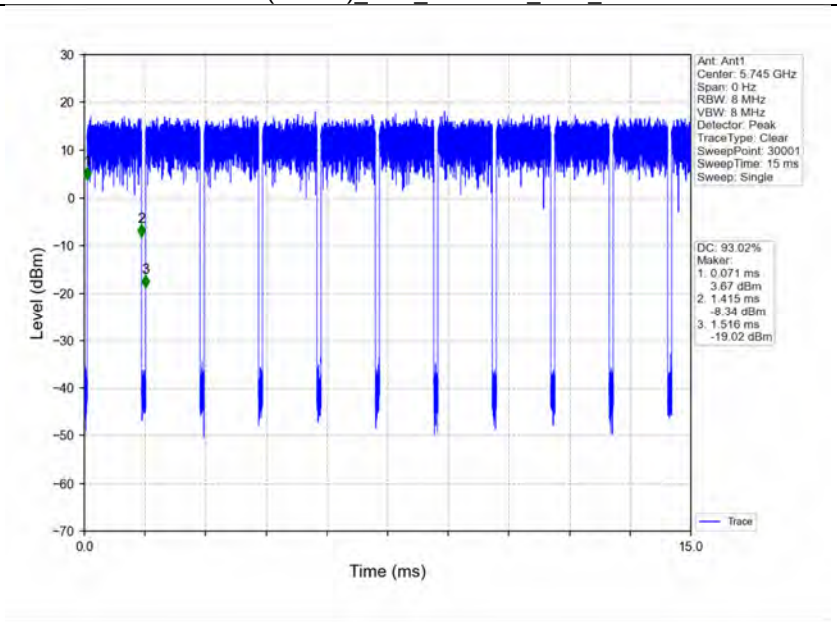
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



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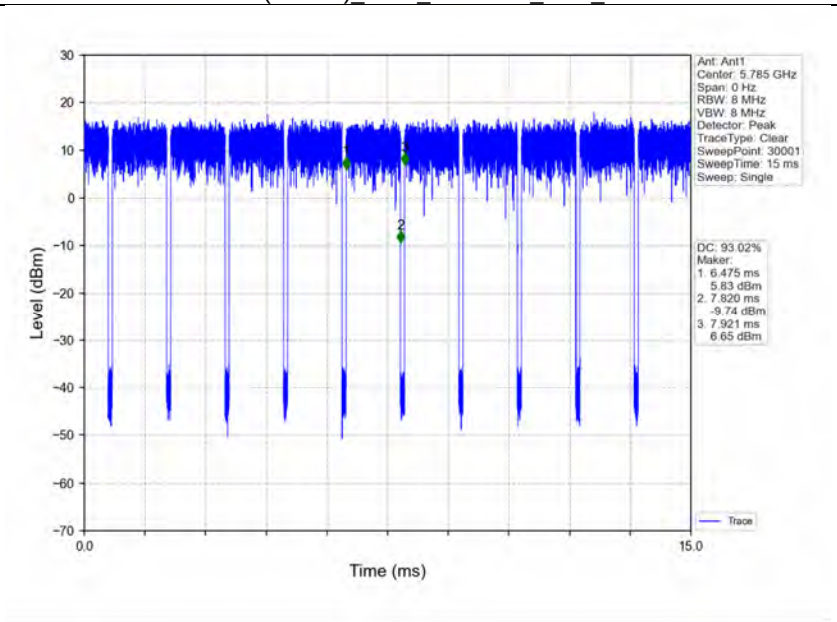

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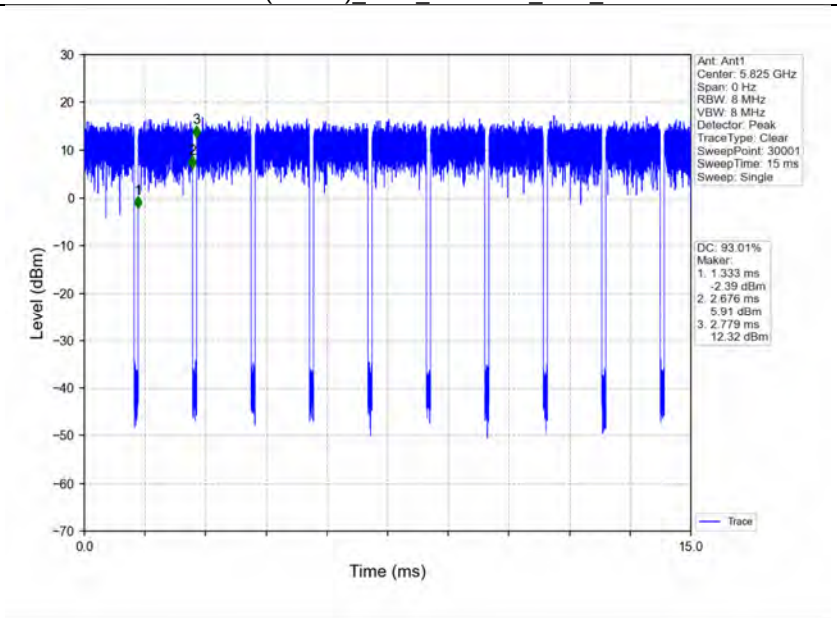
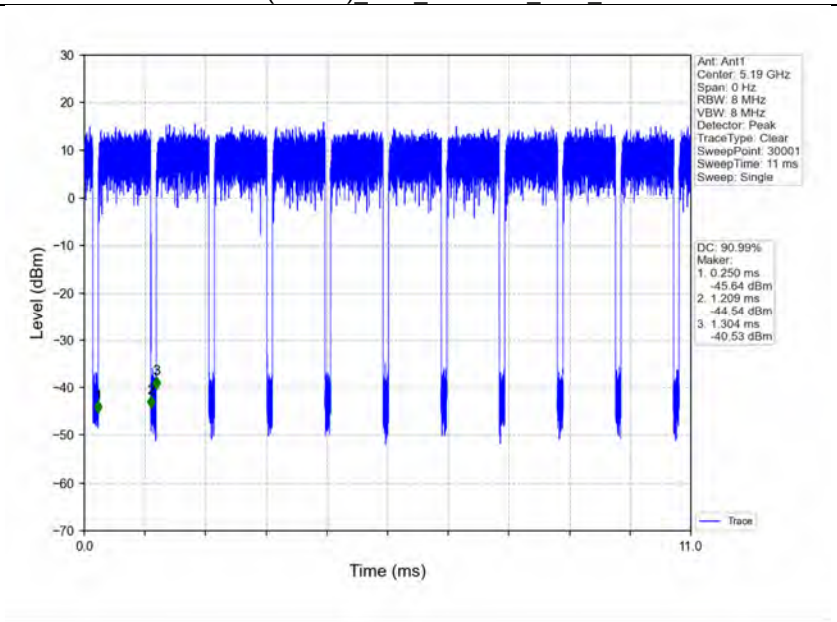
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



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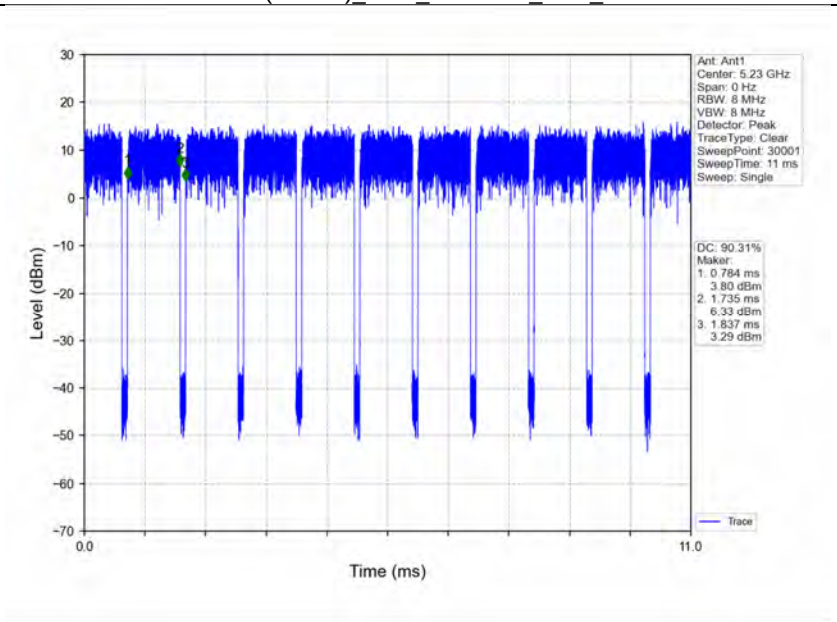
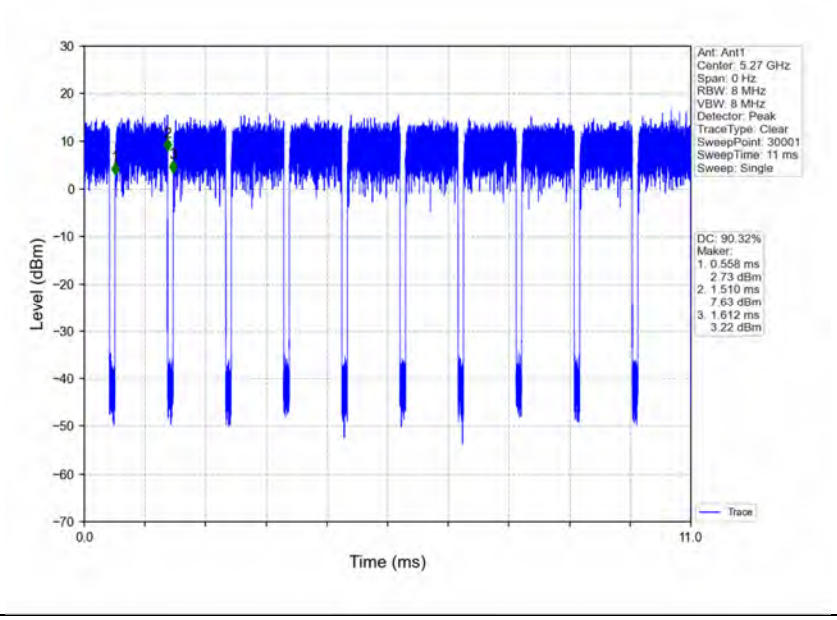
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



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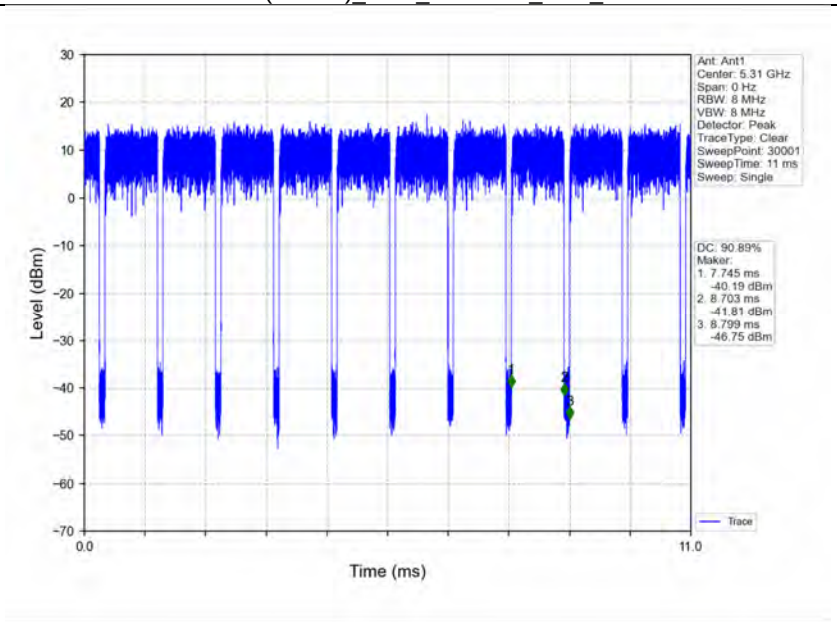
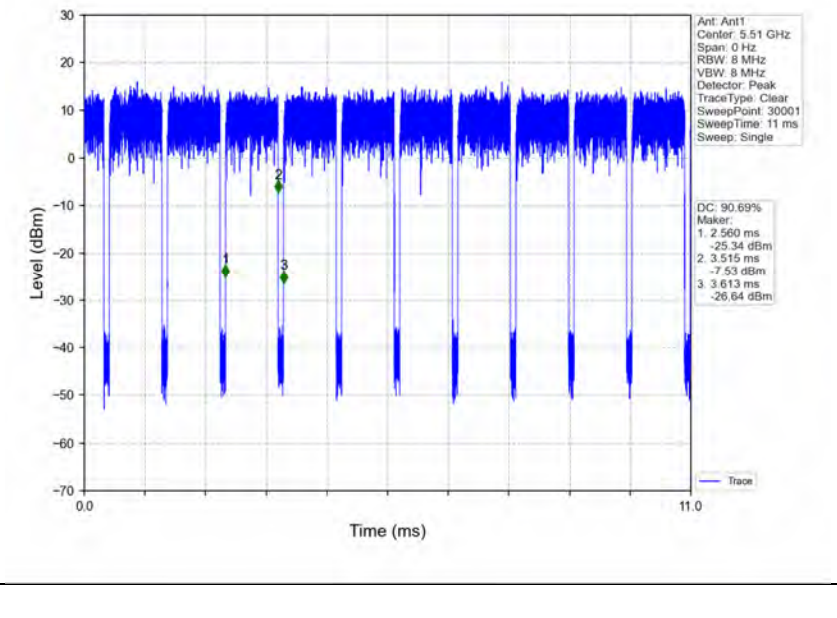
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



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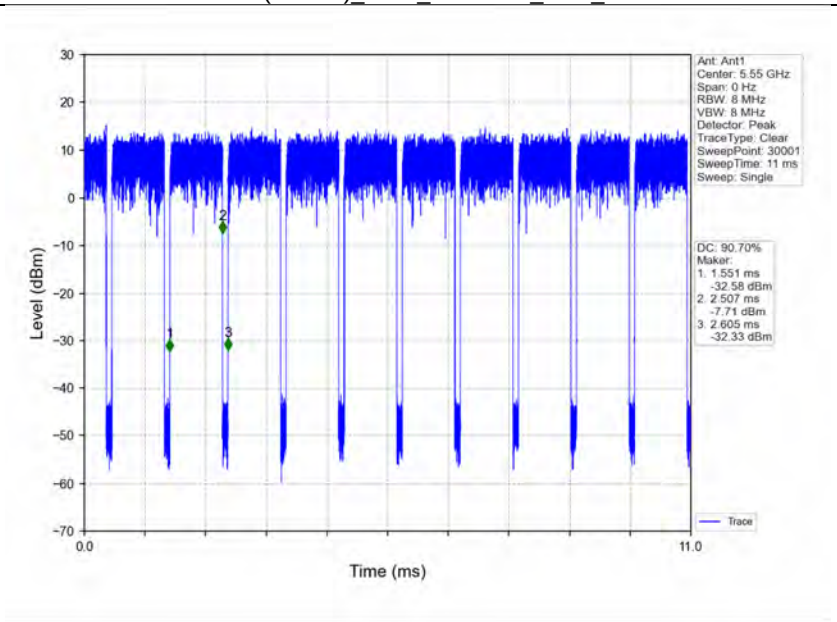
802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



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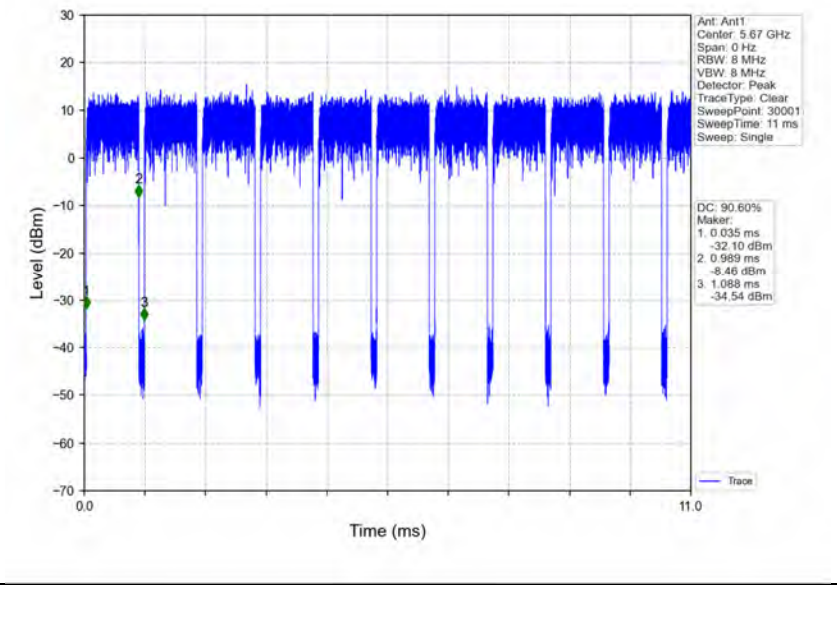

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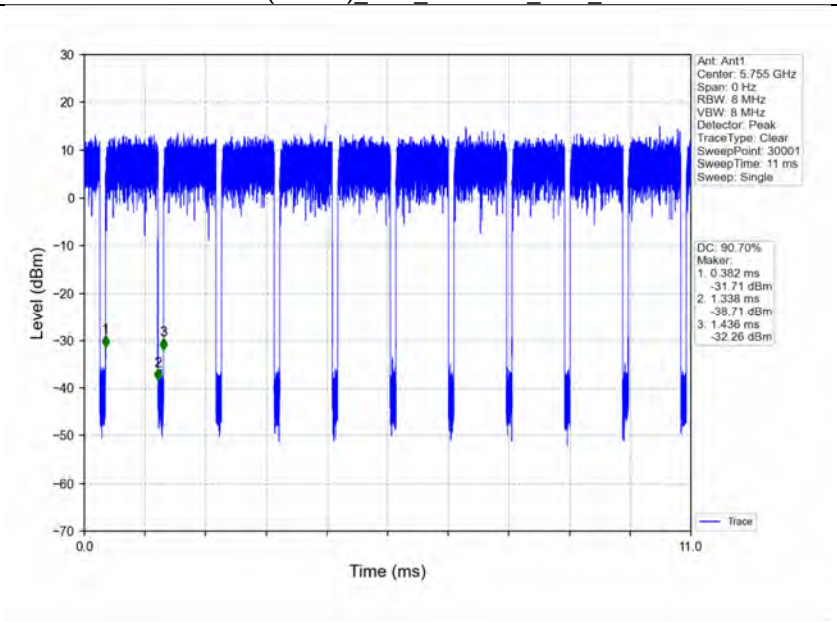
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



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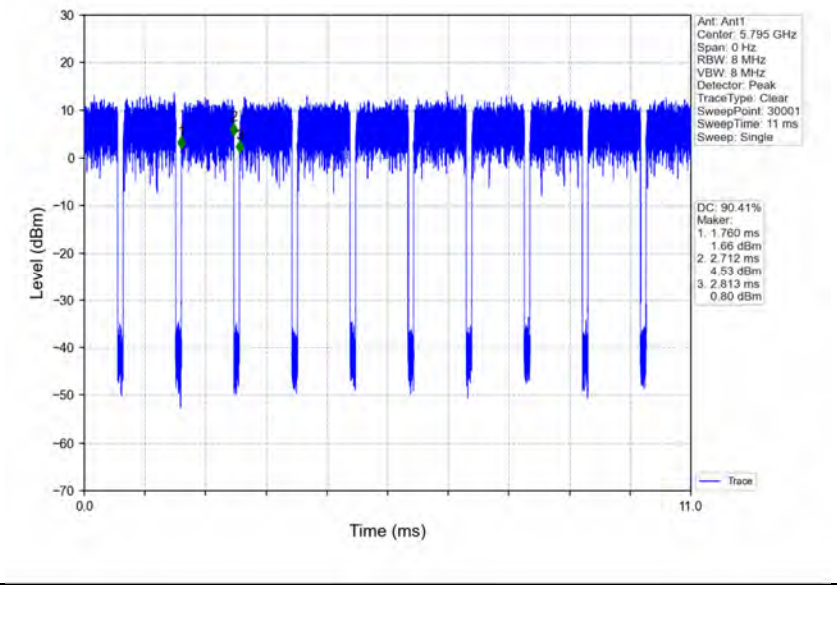

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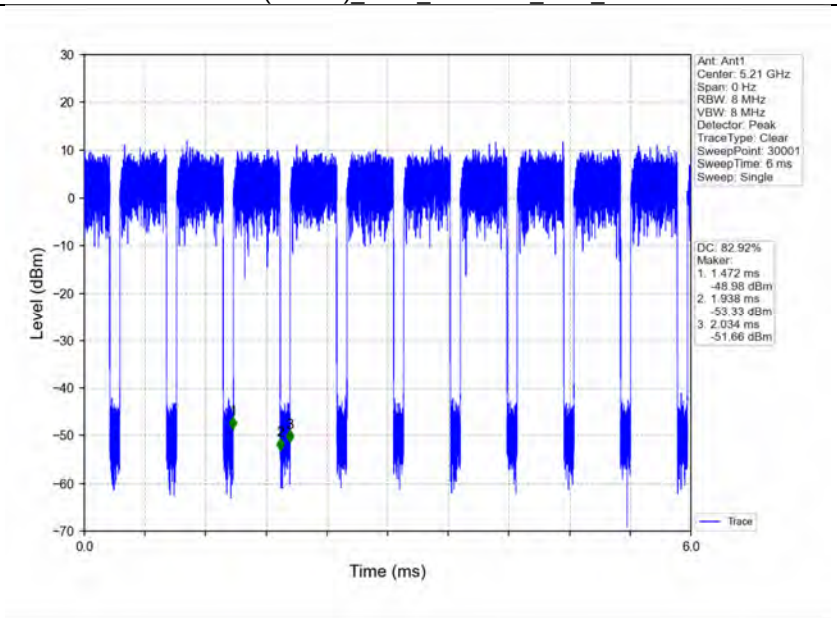
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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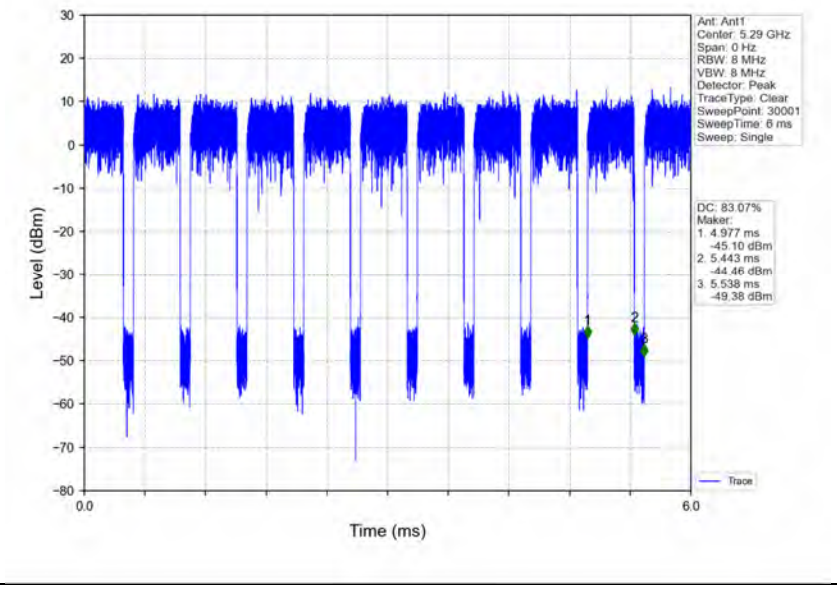

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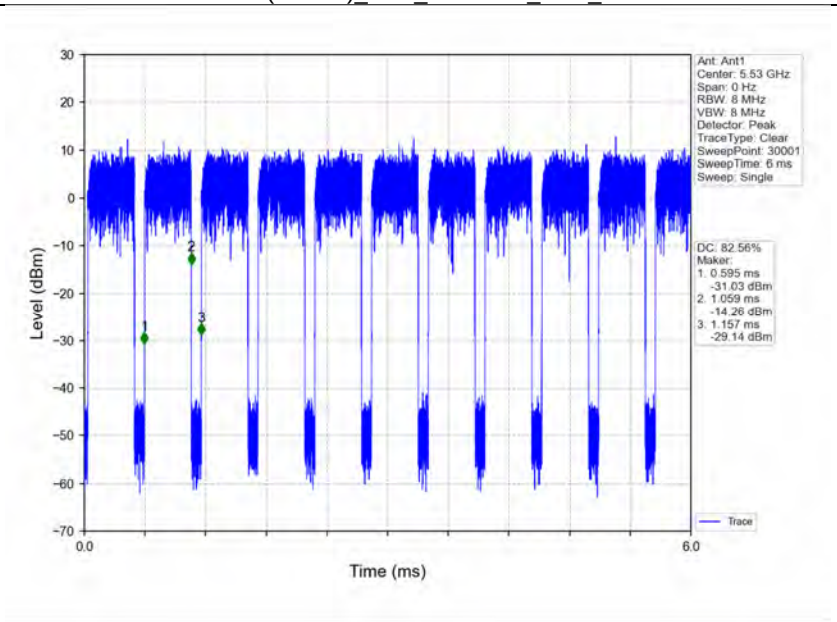
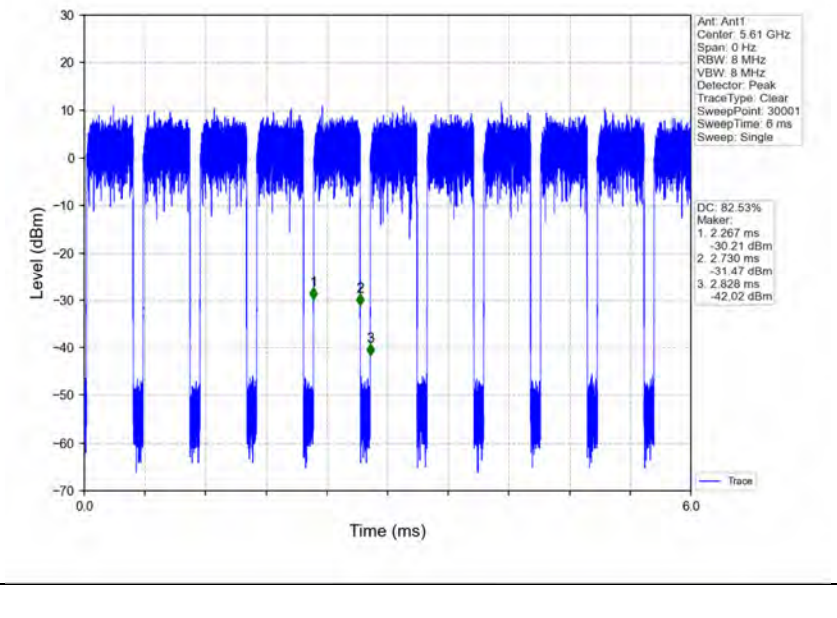
802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



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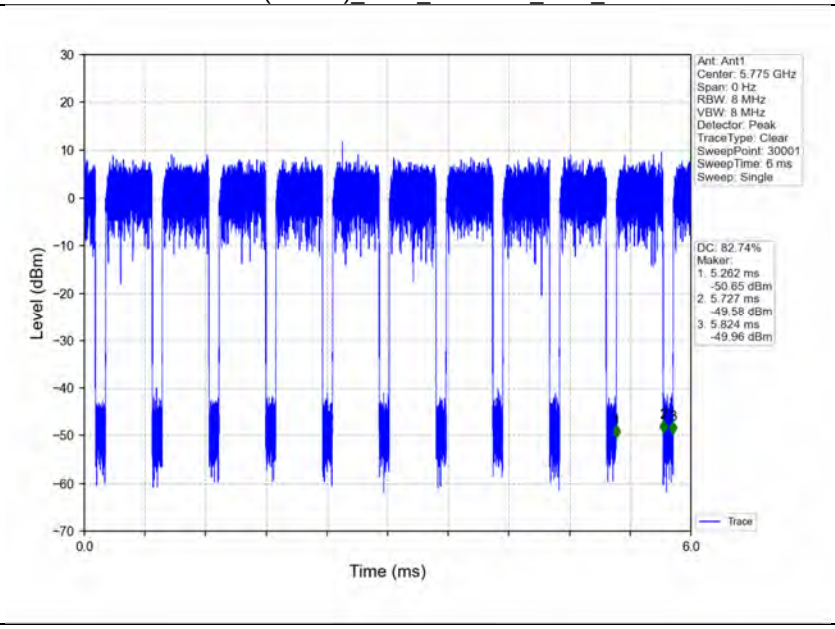
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz) Result	Verdict
802.11a	SISO	5180	1	18.077	Pass
		5200	1	18.025	Pass
		5240	1	18.096	Pass
		5260	1	18.032	Pass
		5300	1	18.040	Pass
		5320	1	18.044	Pass
		5500	1	18.042	Pass
		5580	1	18.087	Pass
		5700	1	18.017	Pass
		5745	1	18.150	Pass
		5785	1	18.142	Pass
		5825	1	18.102	Pass
802.11n (HT20)	SISO	5180	1	18.982	Pass
		5200	1	18.929	Pass
		5240	1	18.967	Pass
		5260	1	18.985	Pass
		5300	1	18.914	Pass
		5320	1	18.958	Pass
		5500	1	18.968	Pass
		5580	1	18.930	Pass
		5700	1	18.943	Pass
		5745	1	19.008	Pass
		5785	1	18.947	Pass
		5825	1	19.007	Pass
802.11n (HT40)	SISO	5190	1	36.616	Pass
		5230	1	36.657	Pass
		5270	1	36.596	Pass
		5310	1	36.586	Pass
		5510	1	36.630	Pass
		5550	1	36.673	Pass
		5670	1	36.576	Pass
		5755	1	36.636	Pass
		5795	1	36.727	Pass
802.11ac (VHT20)	SISO	5180	1	18.889	Pass
		5200	1	18.865	Pass
		5240	1	18.919	Pass
		5260	1	18.868	Pass
		5300	1	18.918	Pass
		5320	1	18.915	Pass
		5500	1	18.928	Pass
		5580	1	18.913	Pass

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		5700	1	18.932	Pass
		5745	1	18.958	Pass
		5785	1	18.947	Pass
		5825	1	18.959	Pass
802.11ac (VHT40)	SISO	5190	1	36.715	Pass
		5230	1	36.773	Pass
		5270	1	36.718	Pass
		5310	1	36.635	Pass
		5510	1	36.697	Pass
		5550	1	36.712	Pass
		5670	1	36.718	Pass
		5755	1	36.759	Pass
		5795	1	36.727	Pass
802.11ac (VHT80)	SISO	5210	1	76.082	Pass
		5290	1	75.846	Pass
		5530	1	76.006	Pass
		5610	1	76.160	Pass
		5775	1	76.125	Pass

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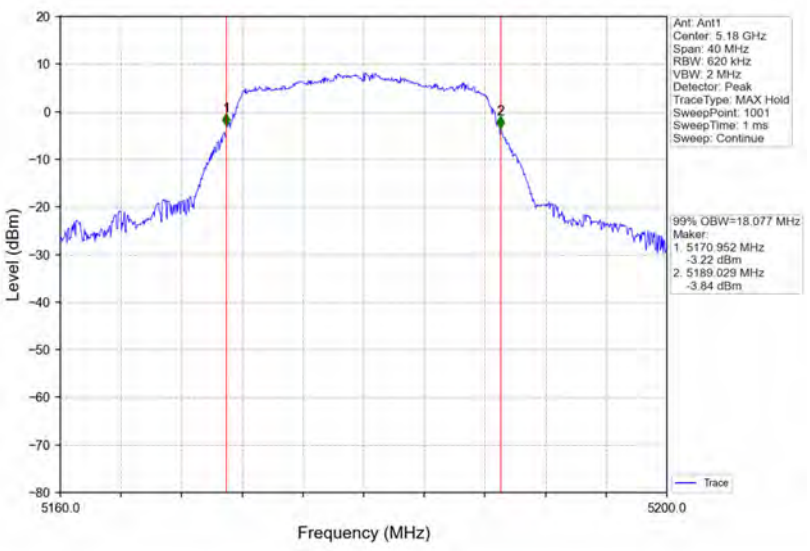
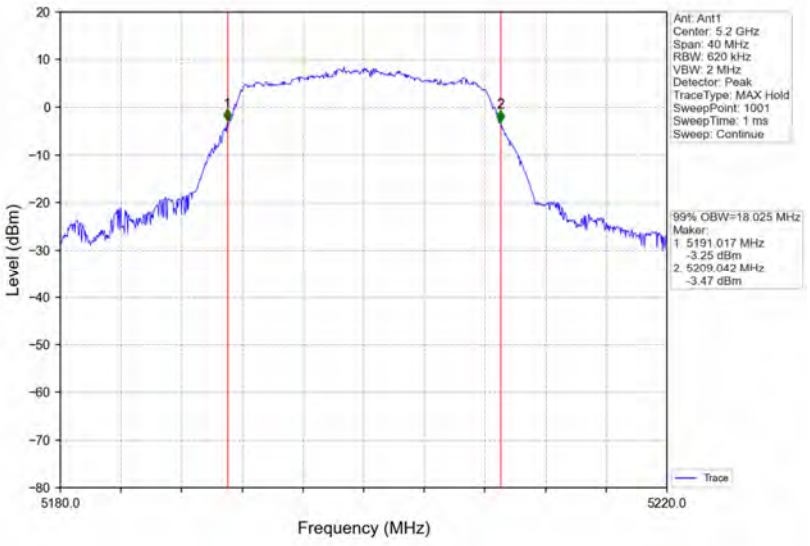
2.1.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV



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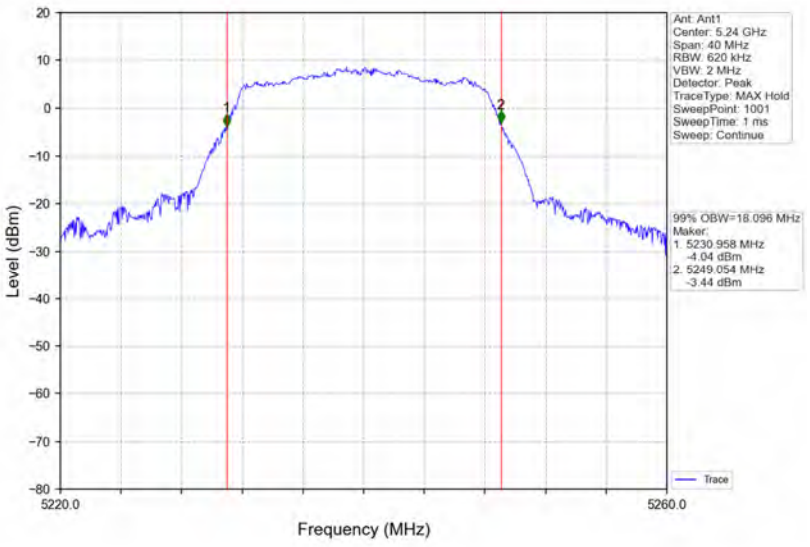
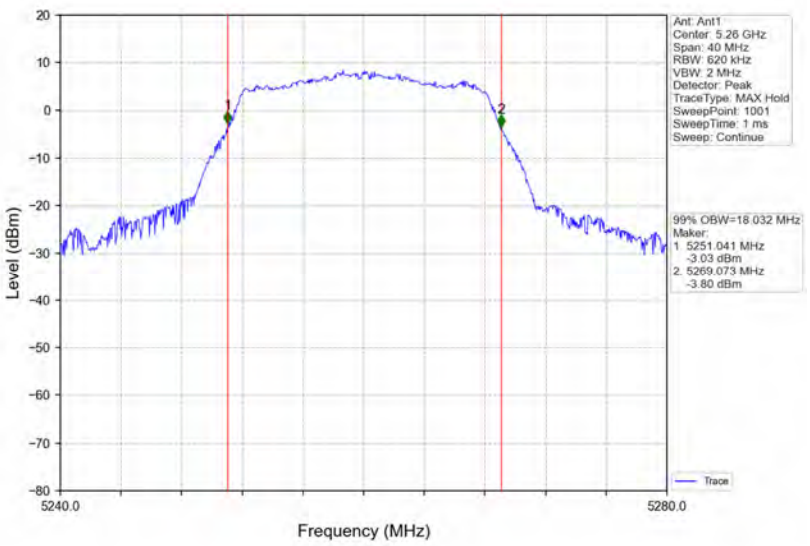
802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



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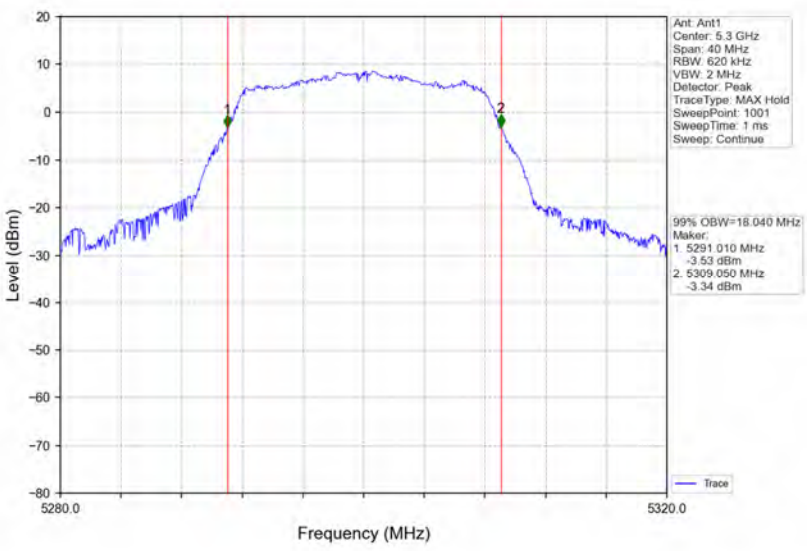
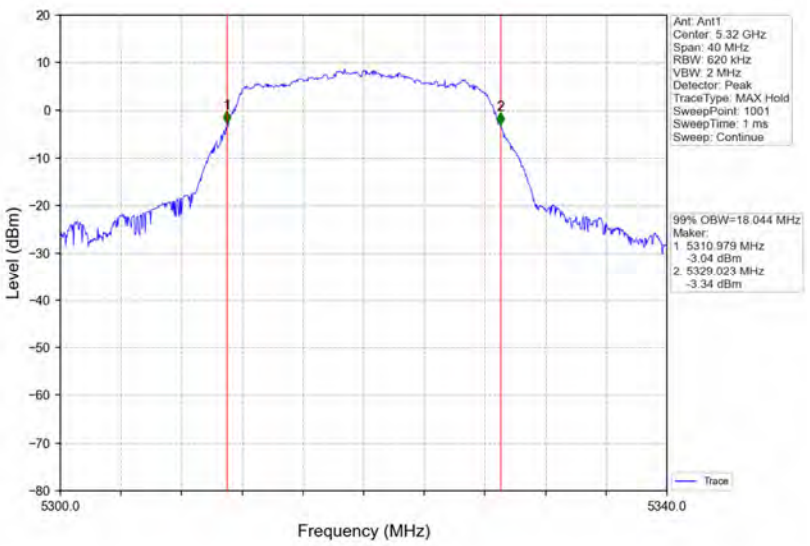
802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV



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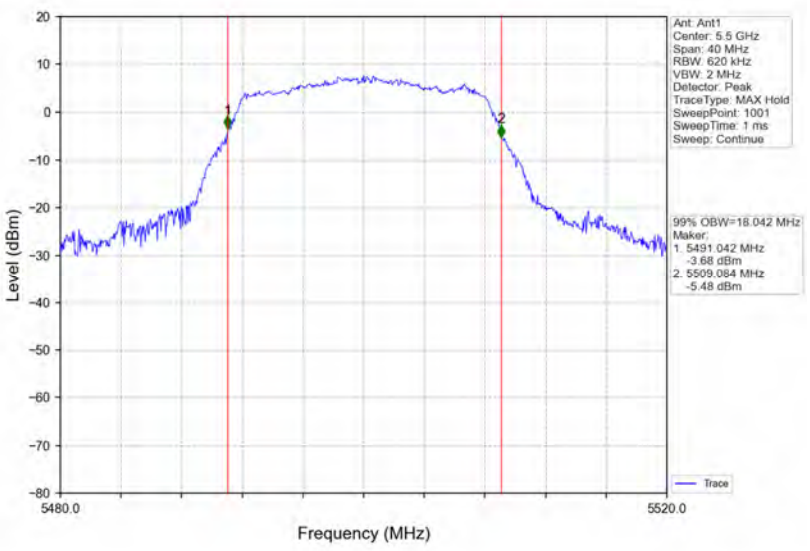
802.11a_LCH_5500MHz_Ant1_NTNV



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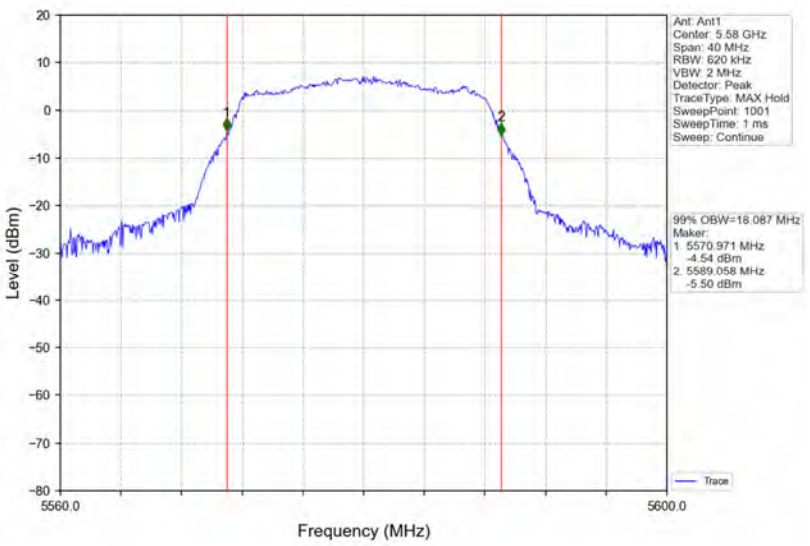

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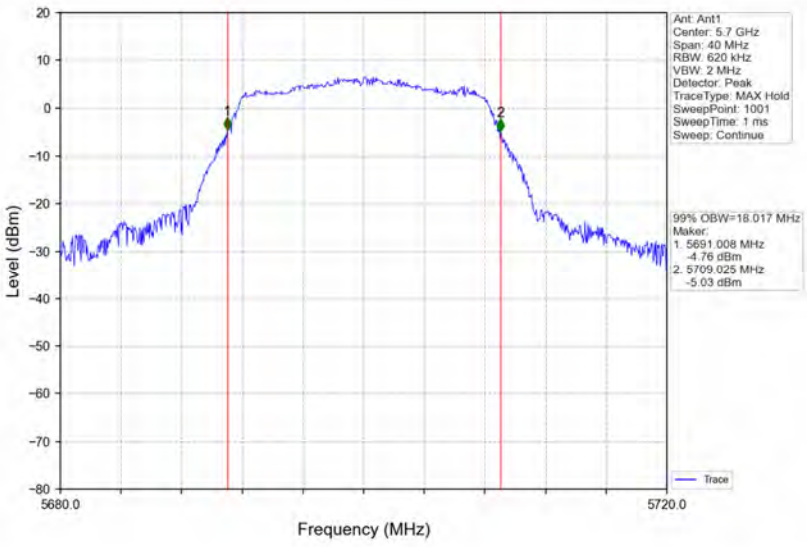
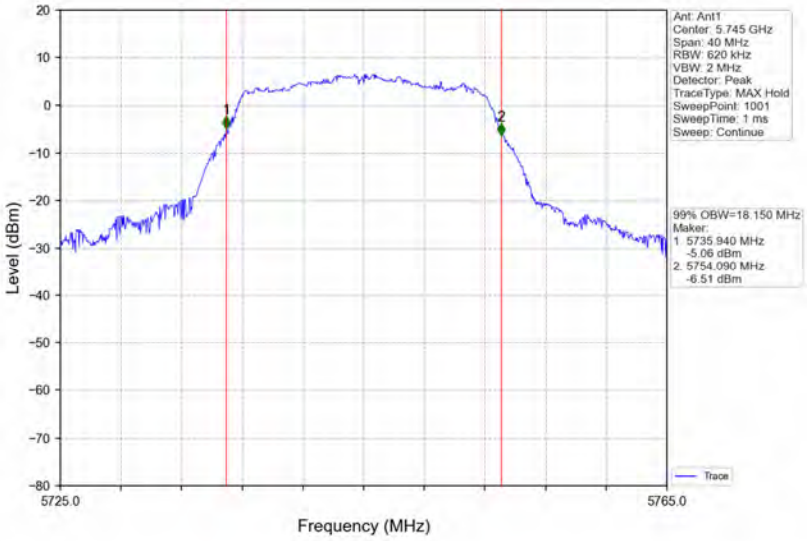
802.11a_HCH_5700MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV



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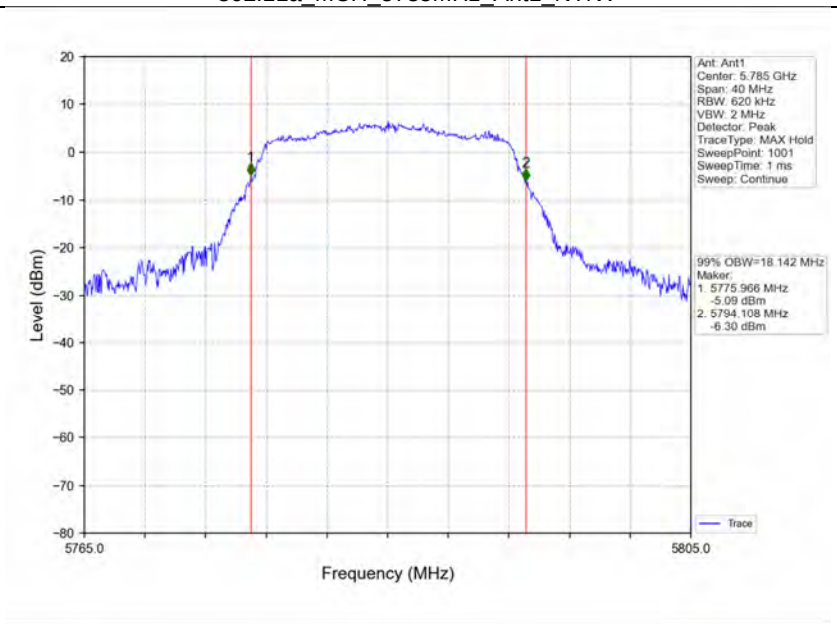
802.11a_MCH_5785MHz_Ant1_NTNV



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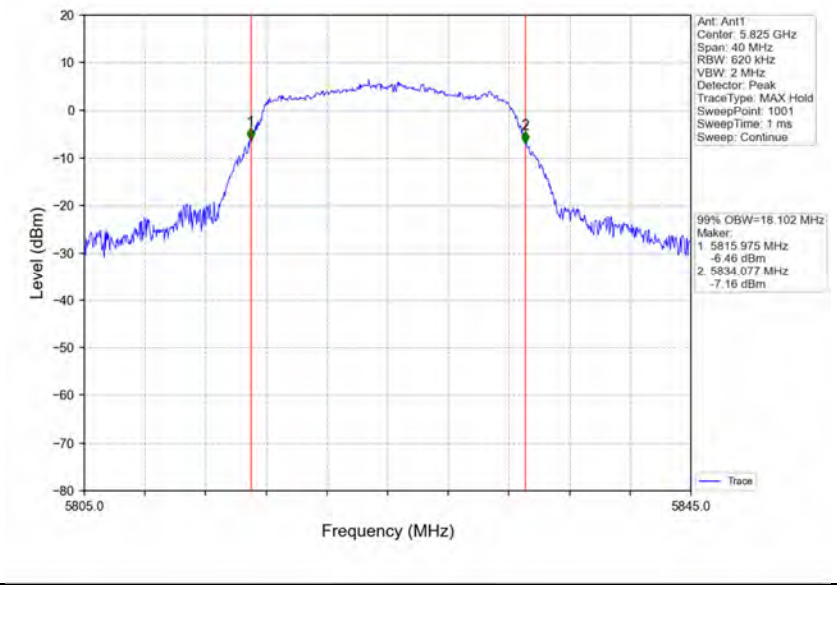

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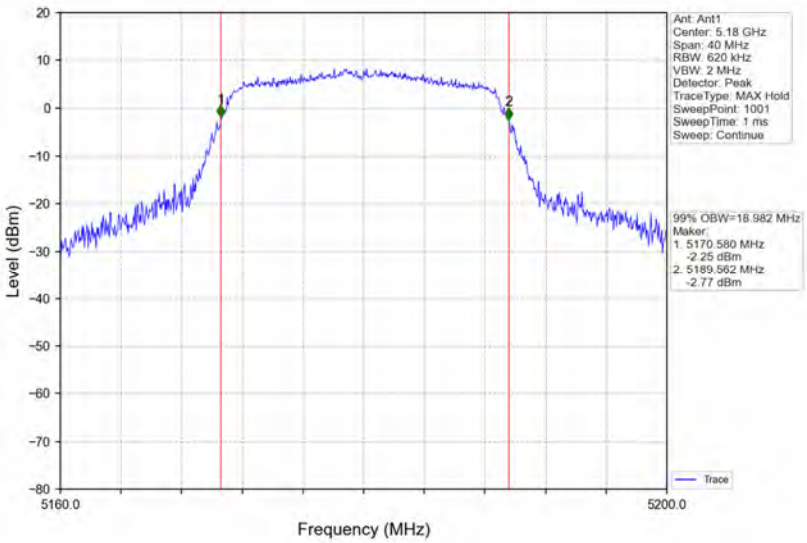
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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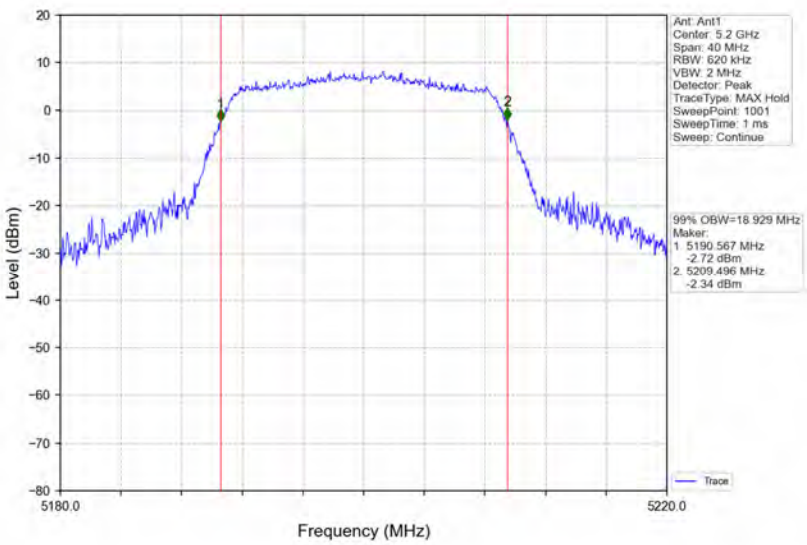

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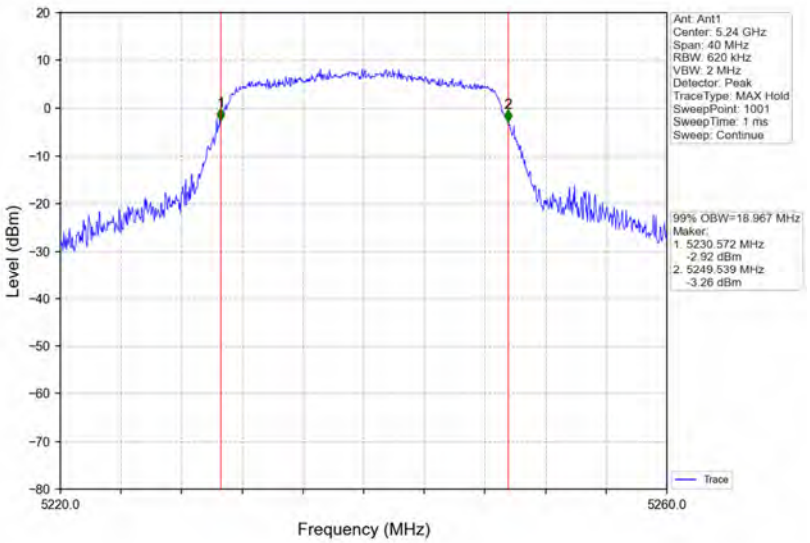
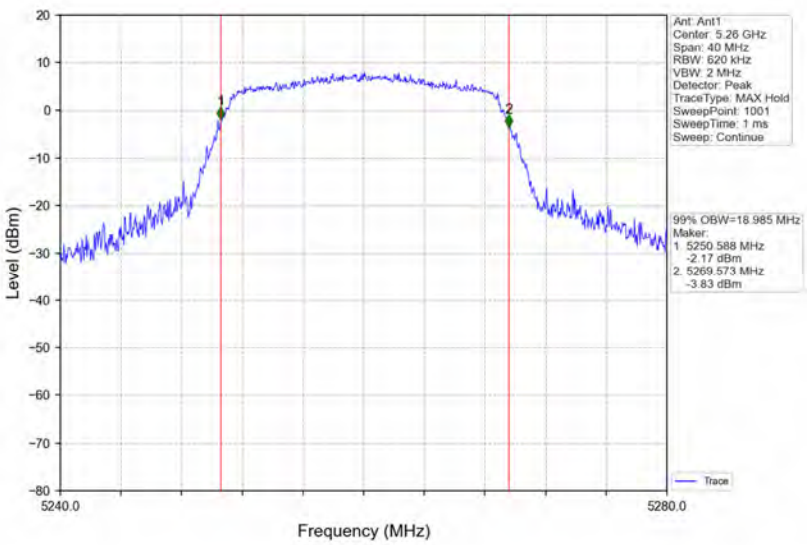
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



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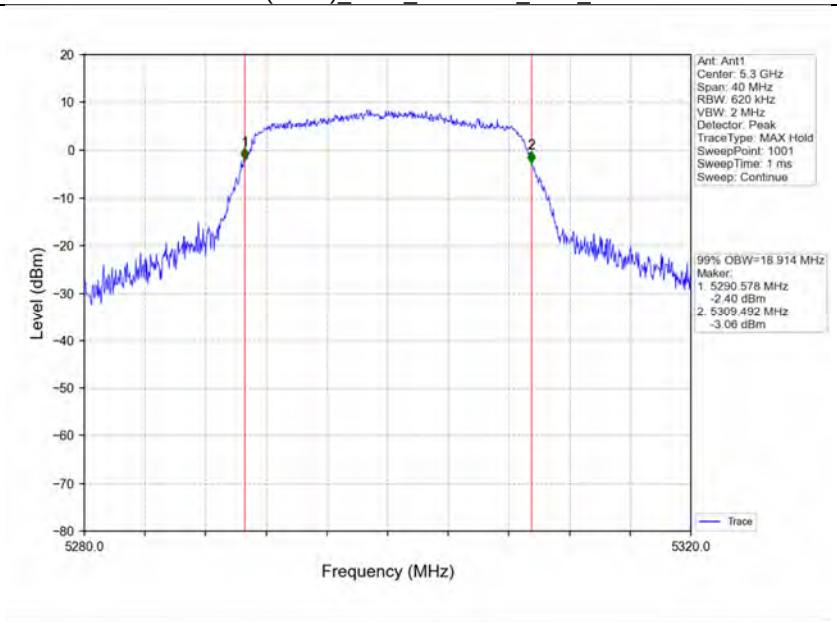
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



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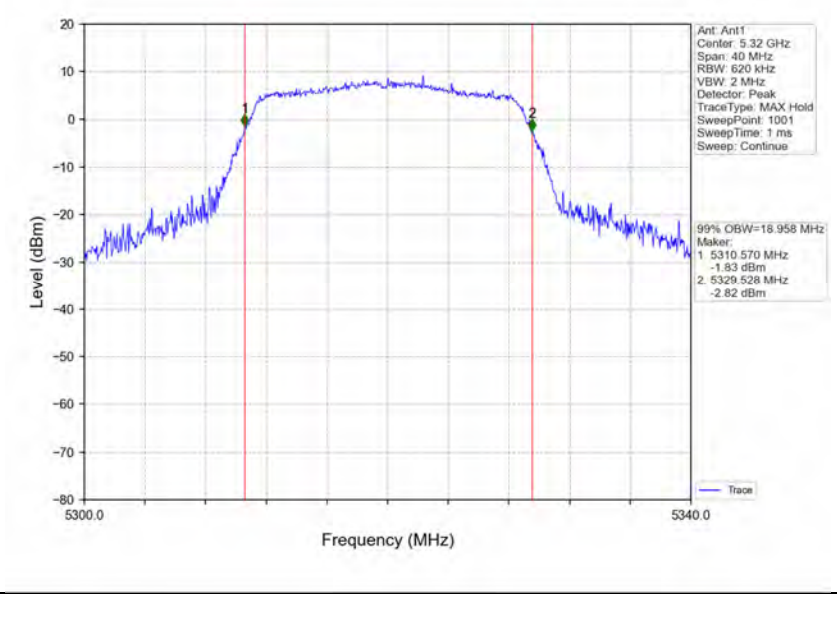

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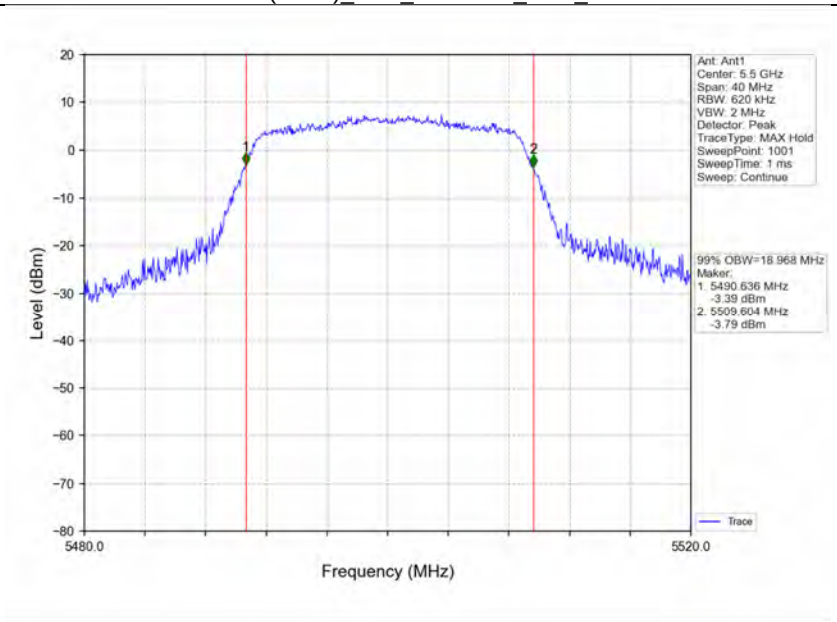
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



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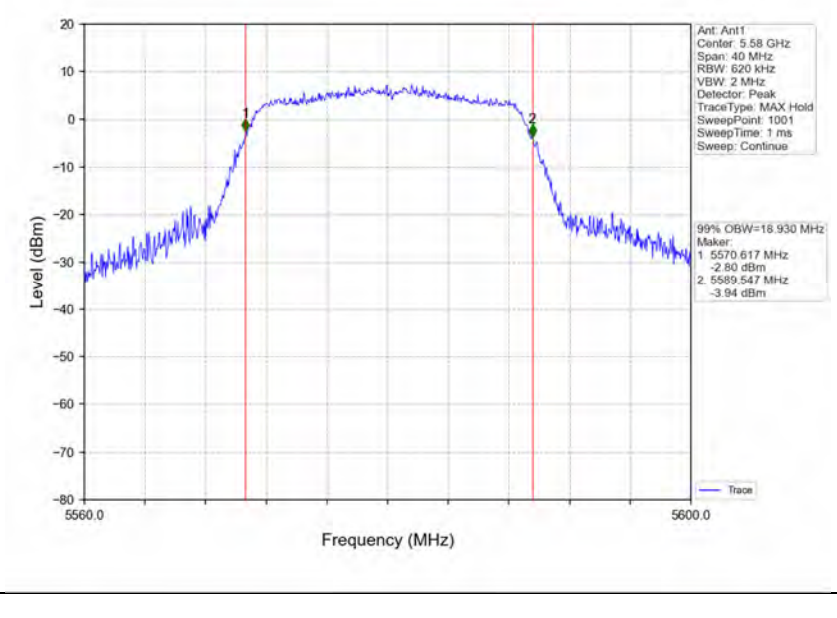

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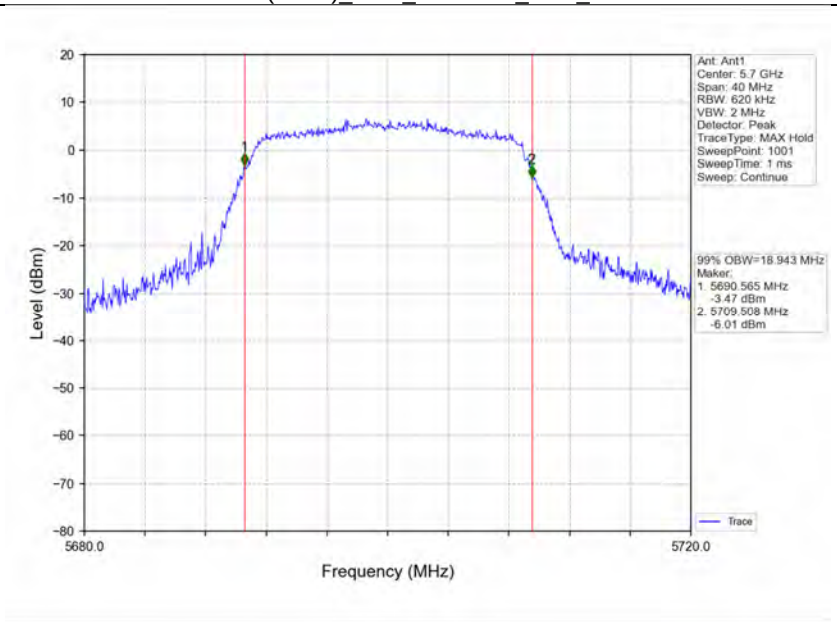
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



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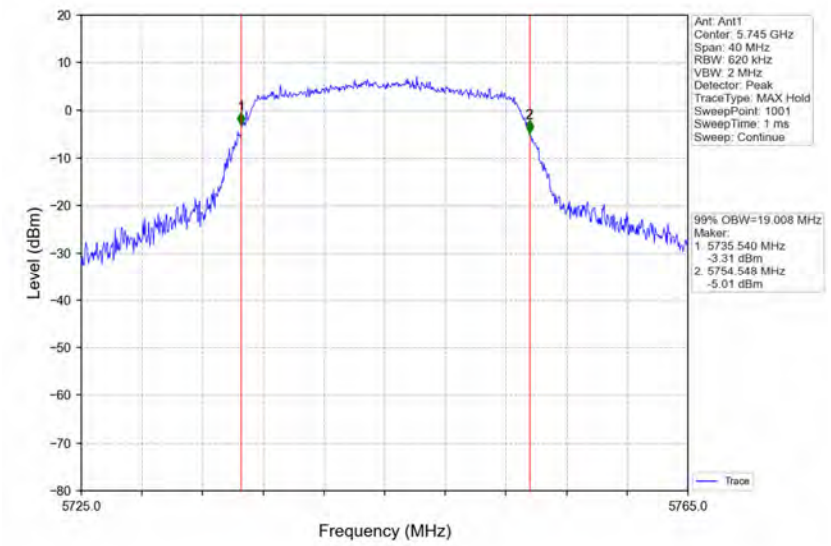

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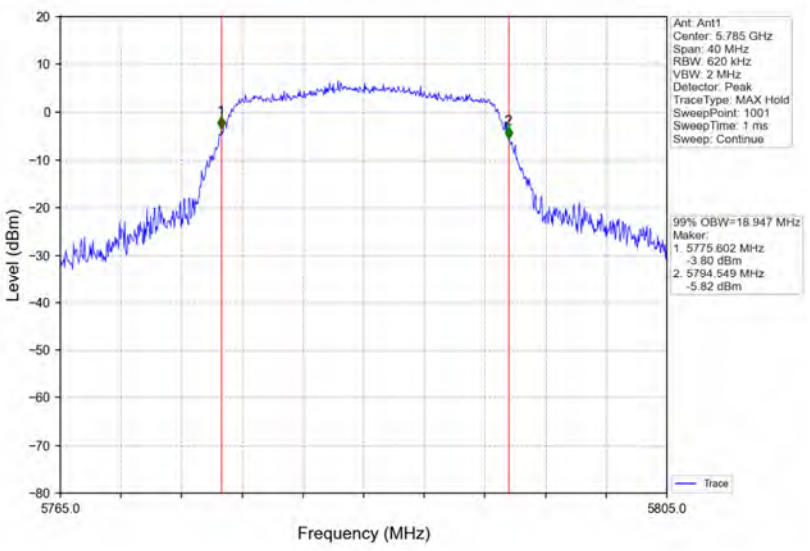
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



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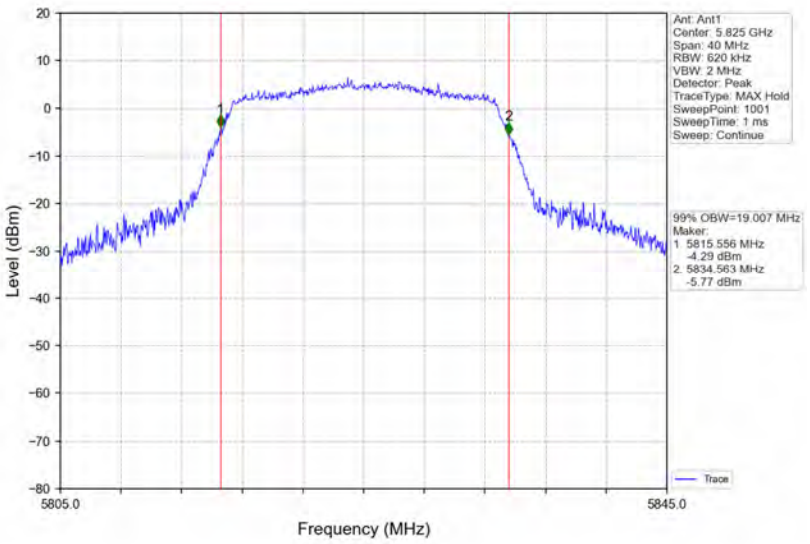

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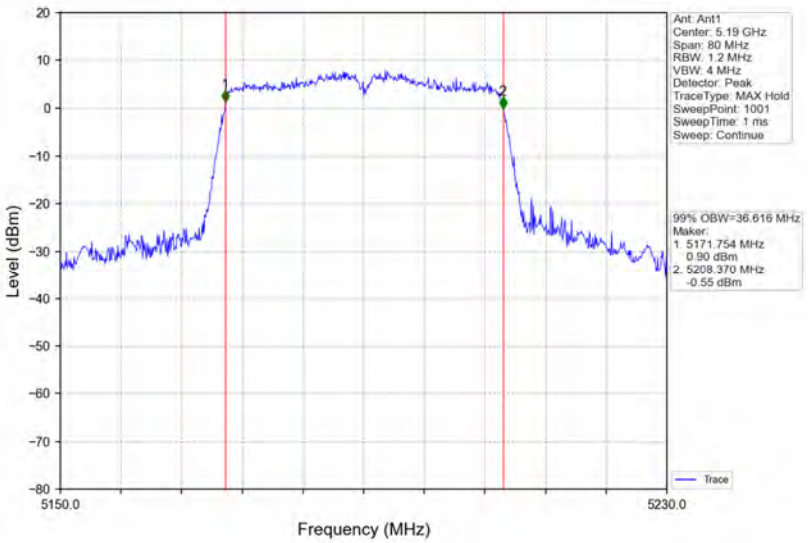
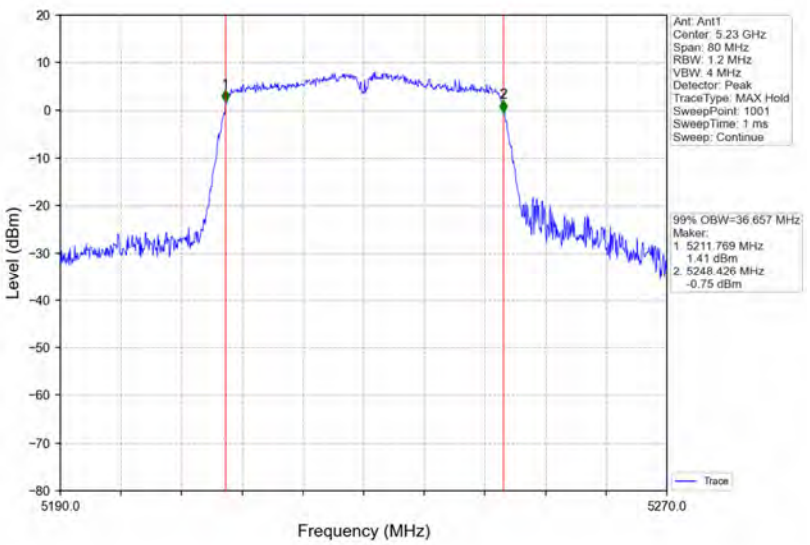
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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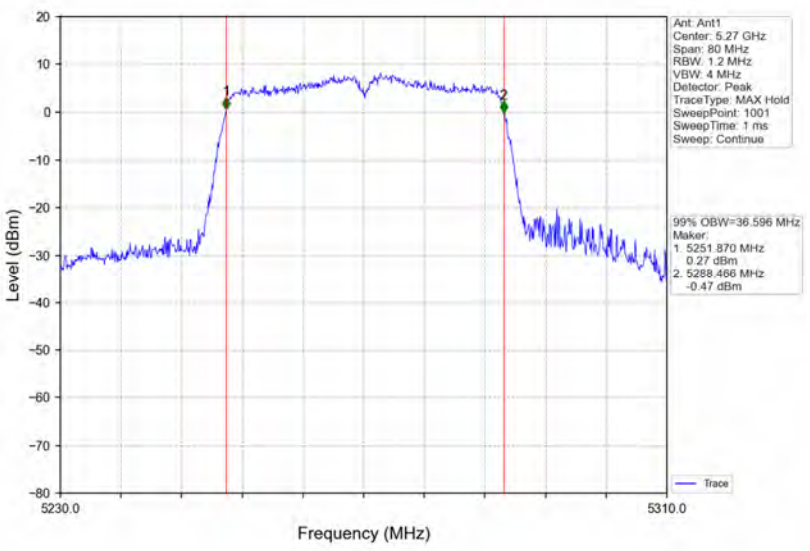
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



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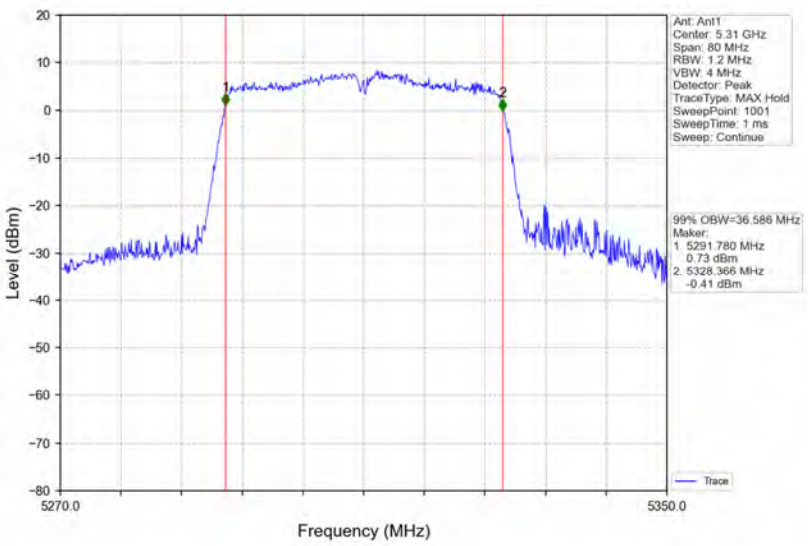

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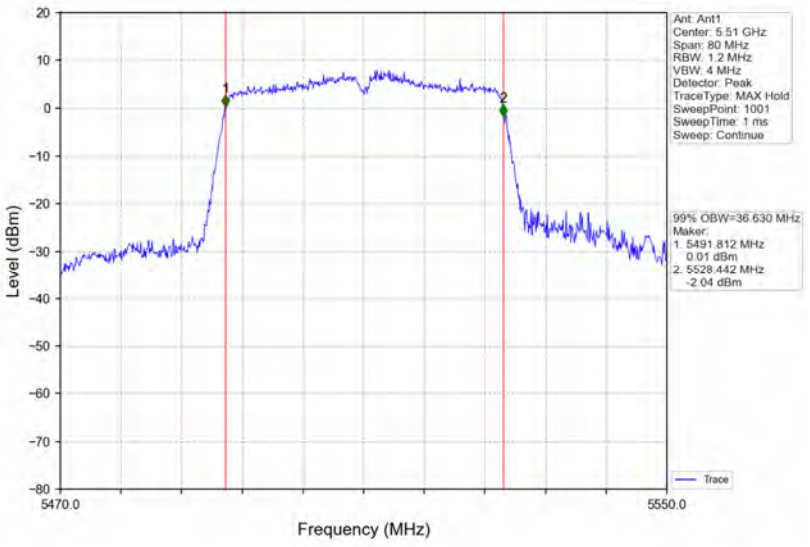
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



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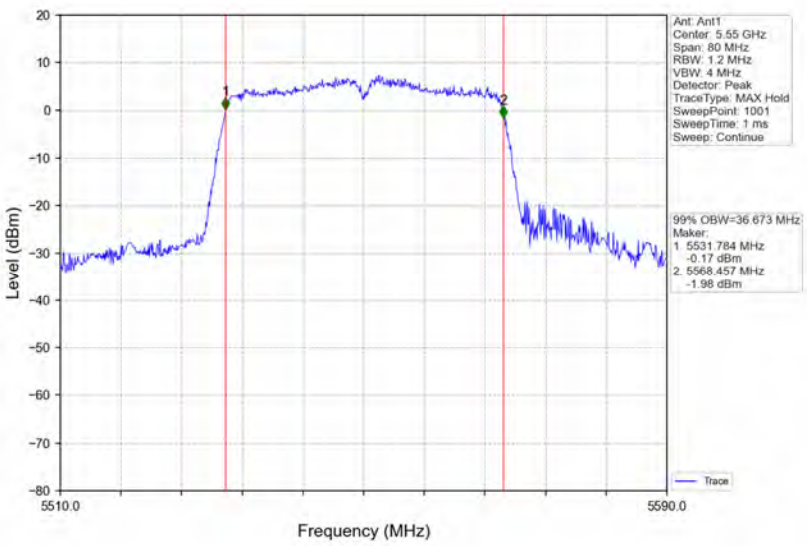

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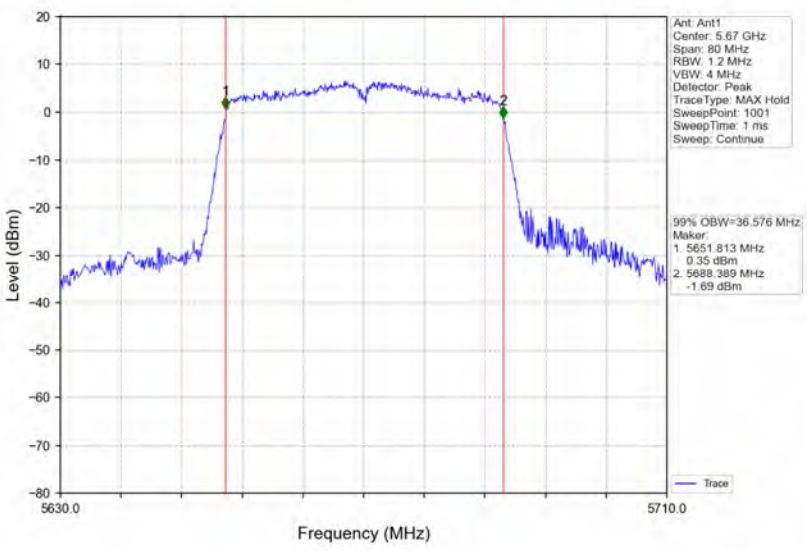
802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



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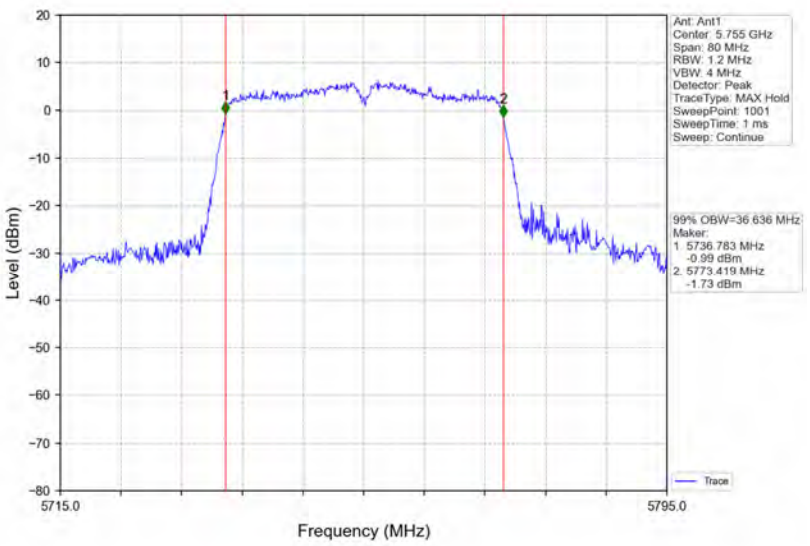

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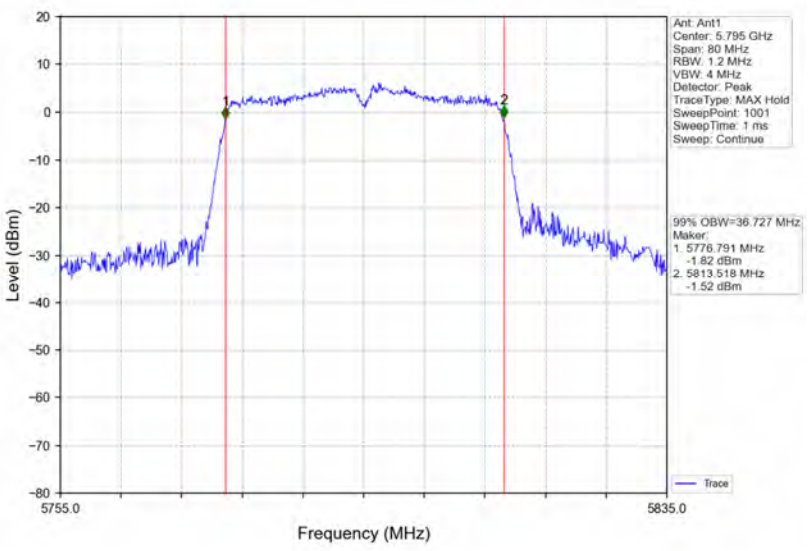
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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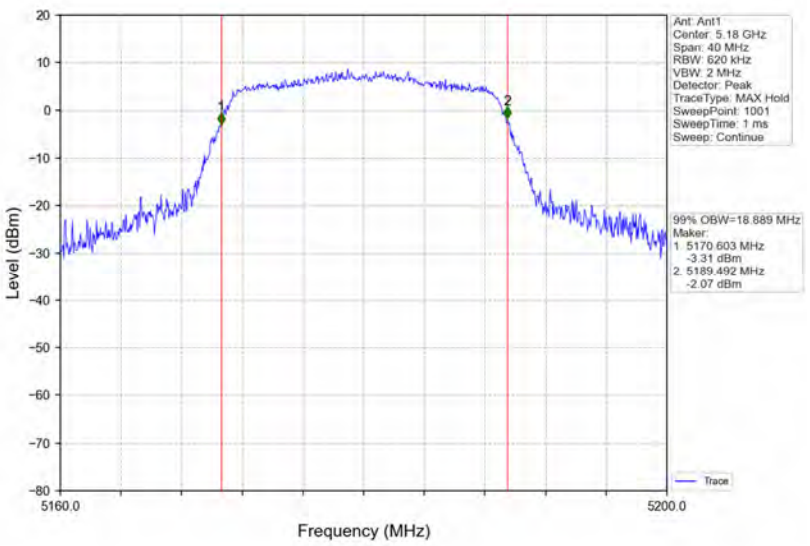

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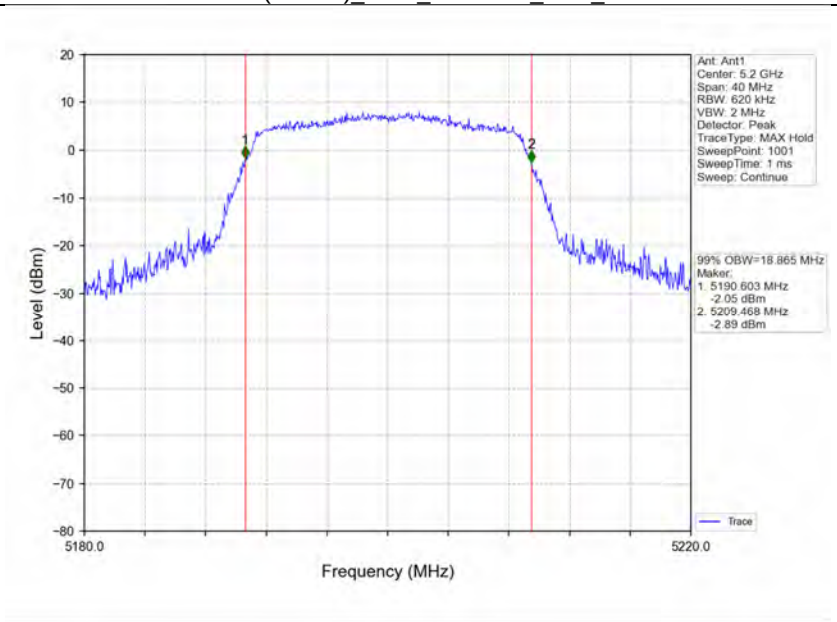
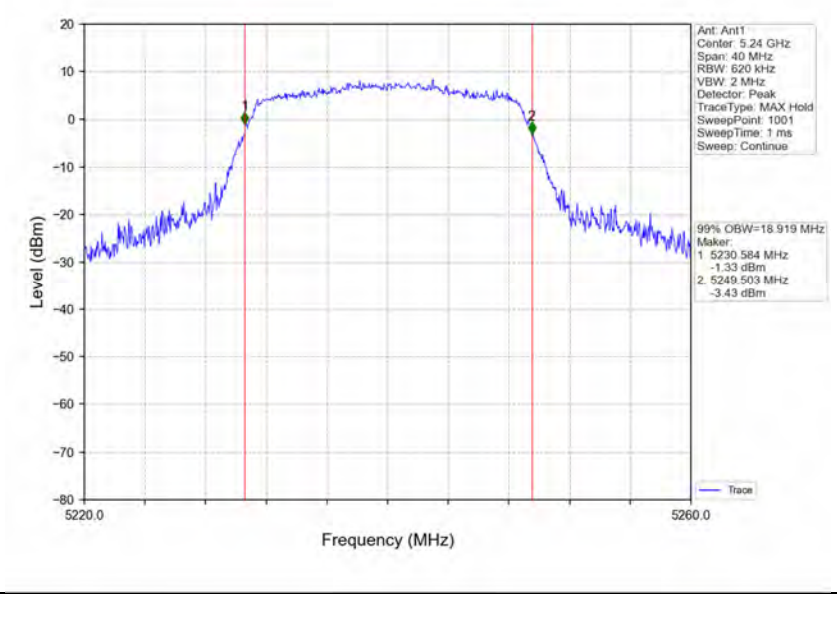
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



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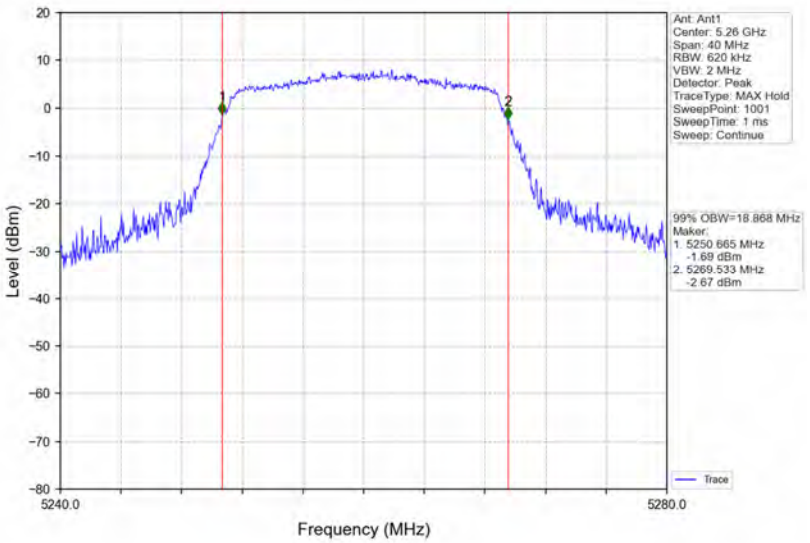
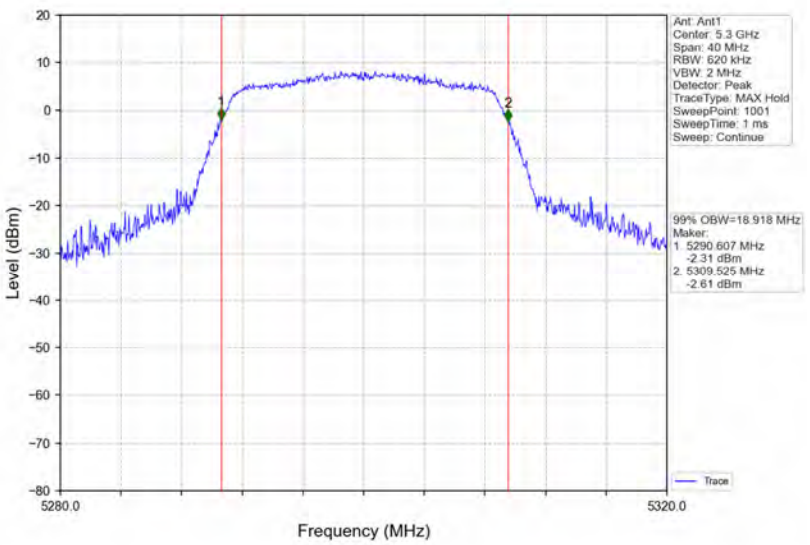
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



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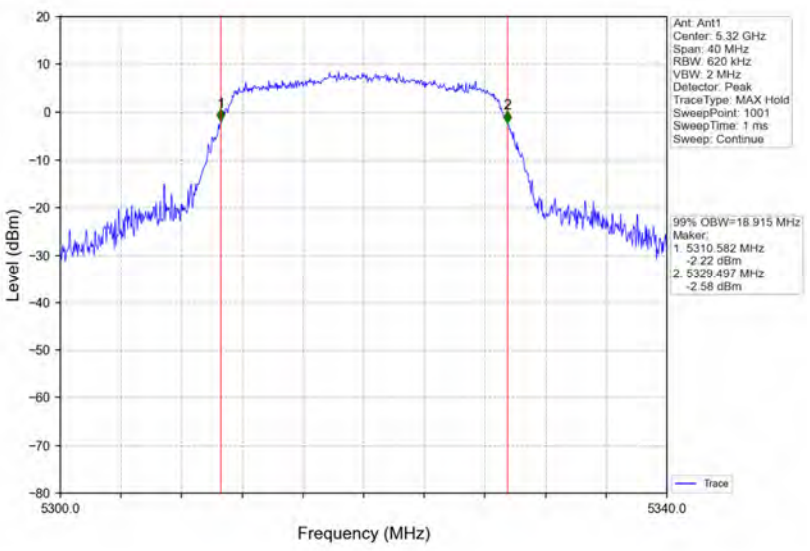
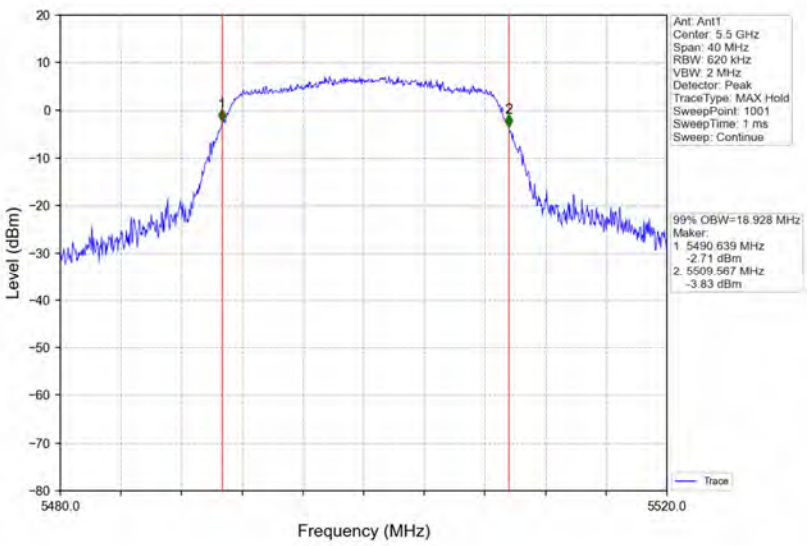
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



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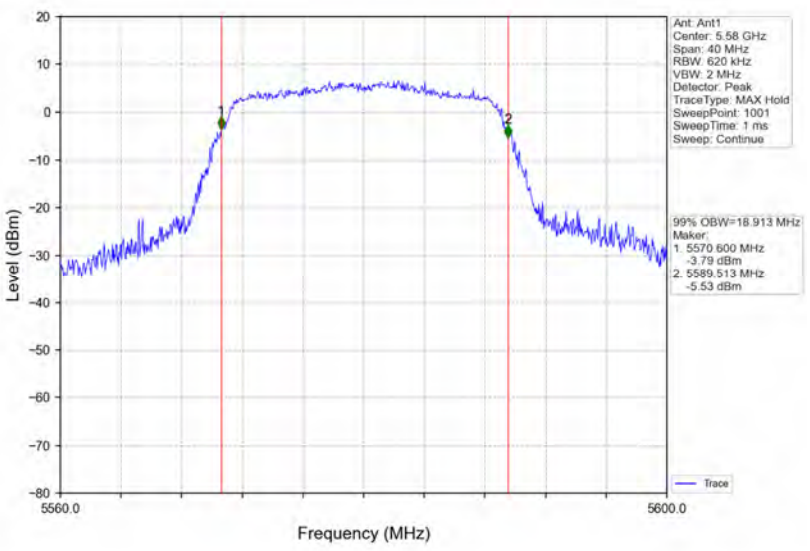
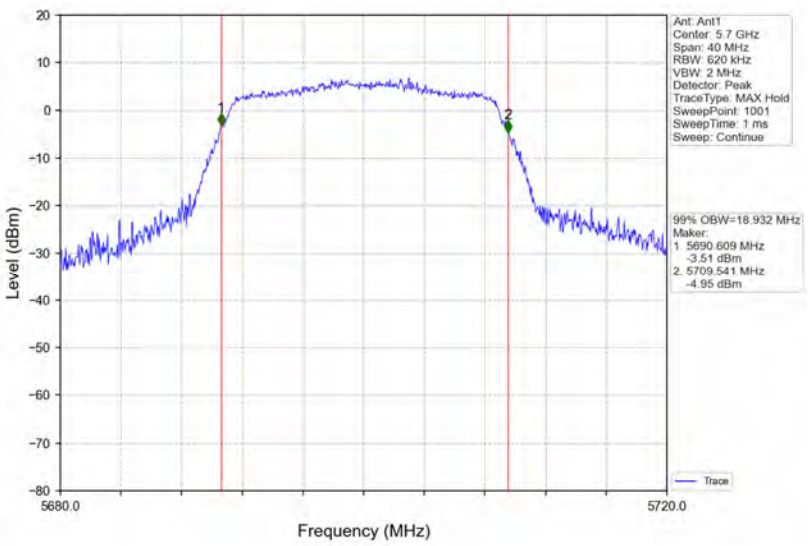


802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



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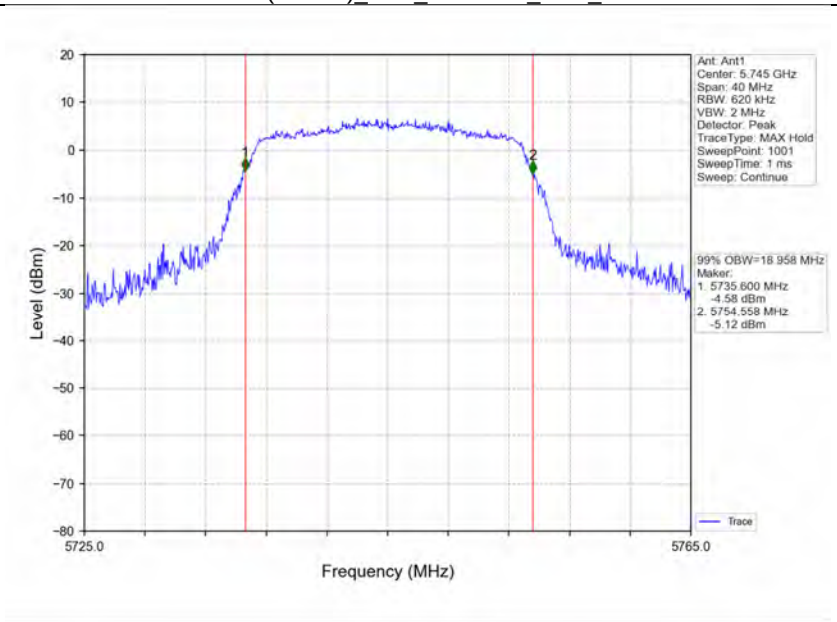
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



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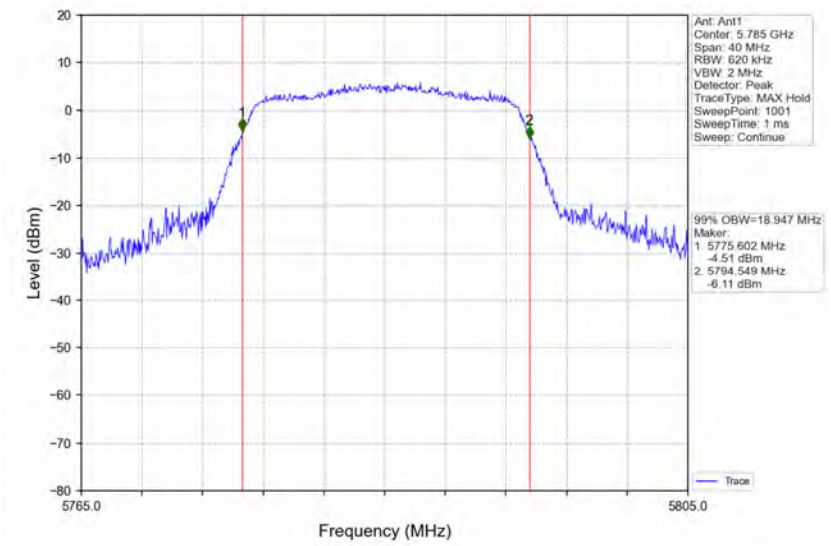

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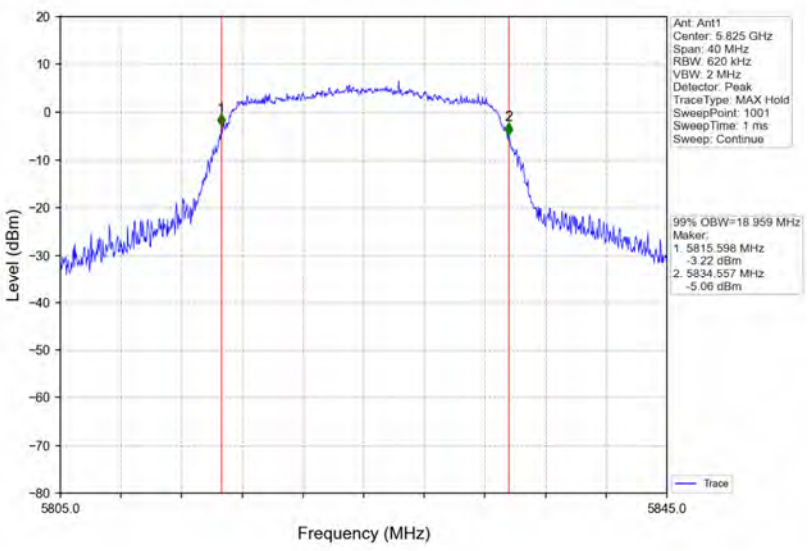
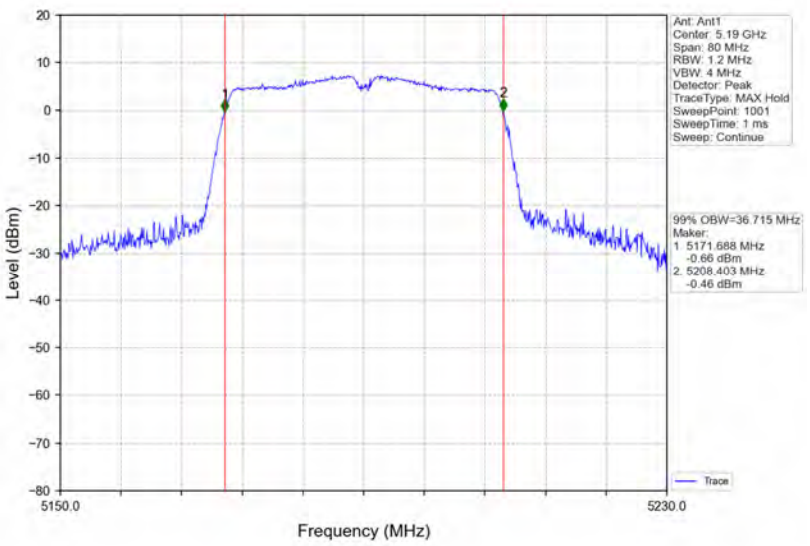
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



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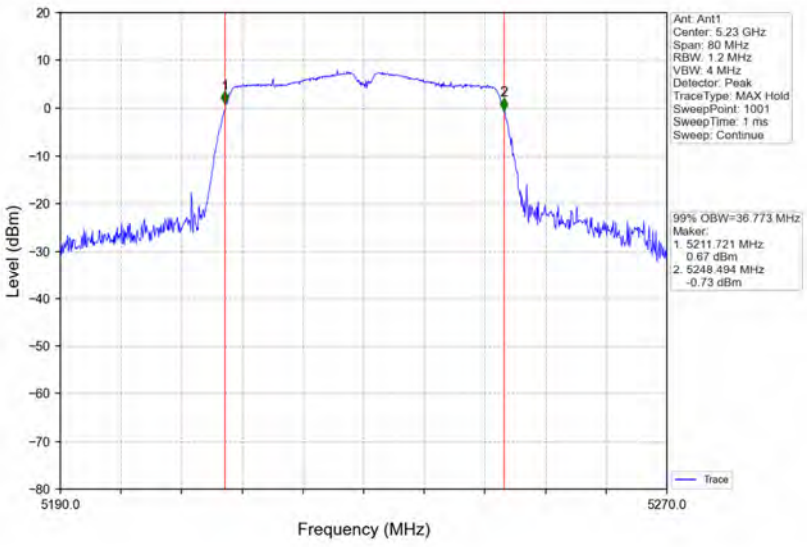
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



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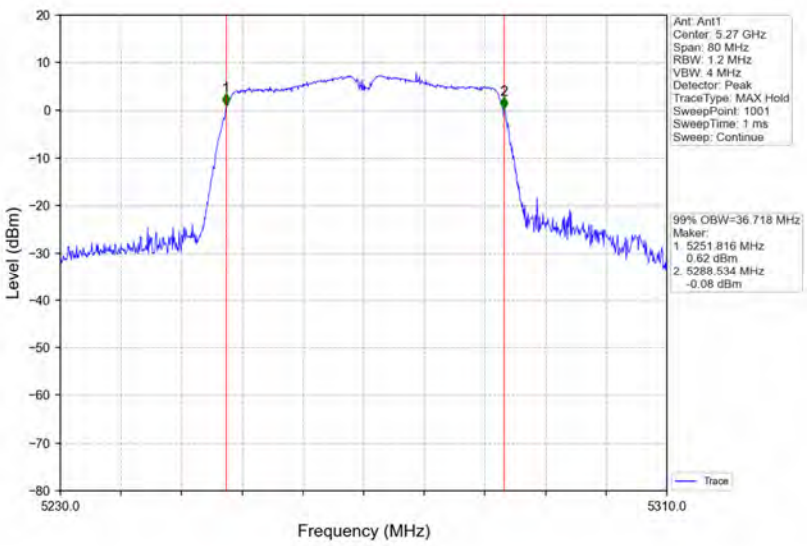

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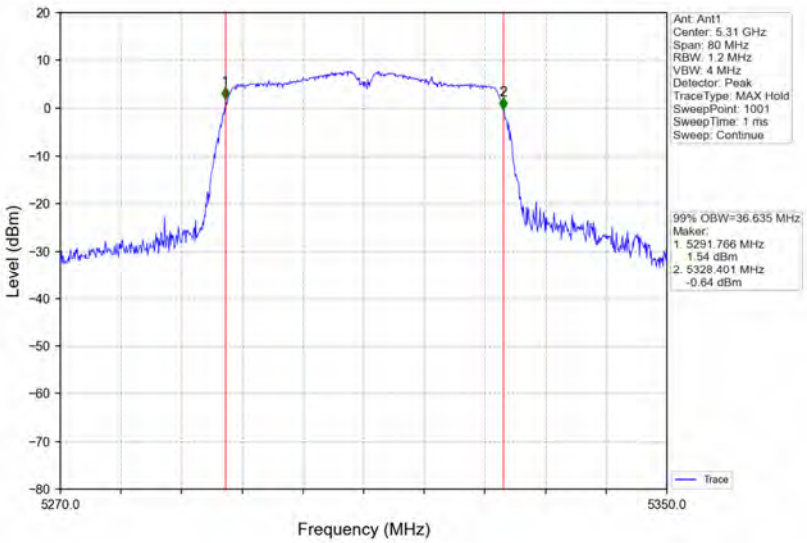
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



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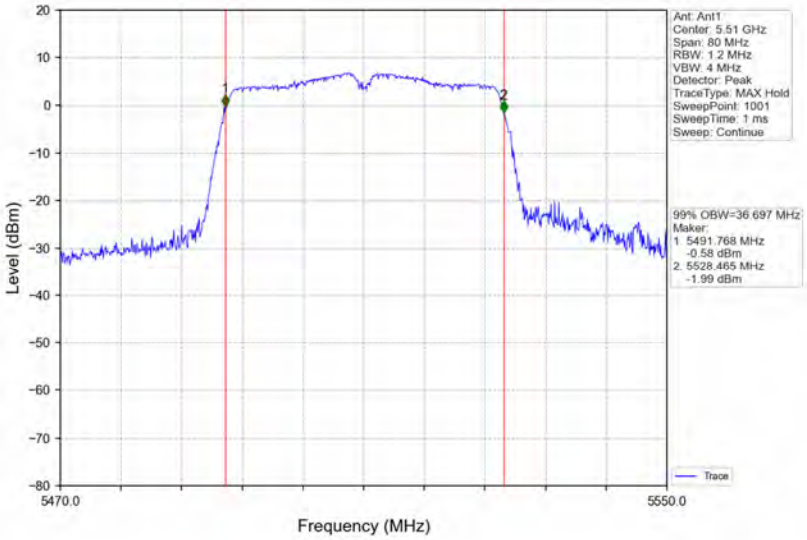

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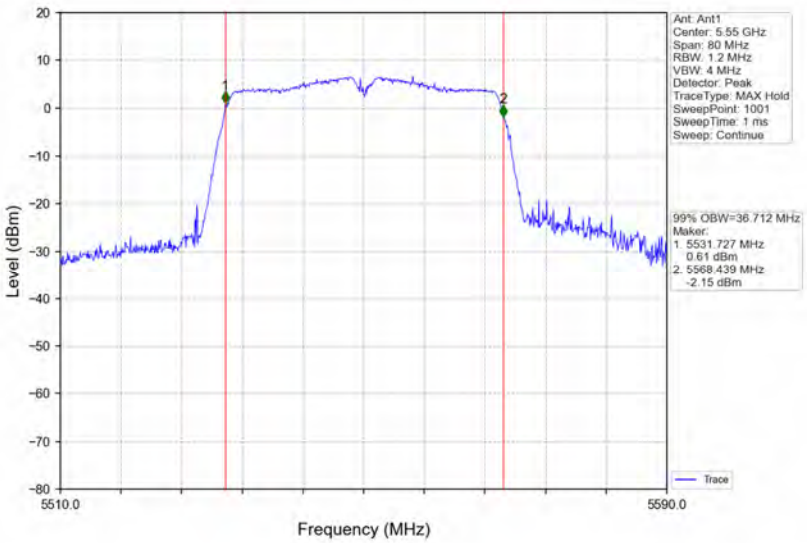
802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



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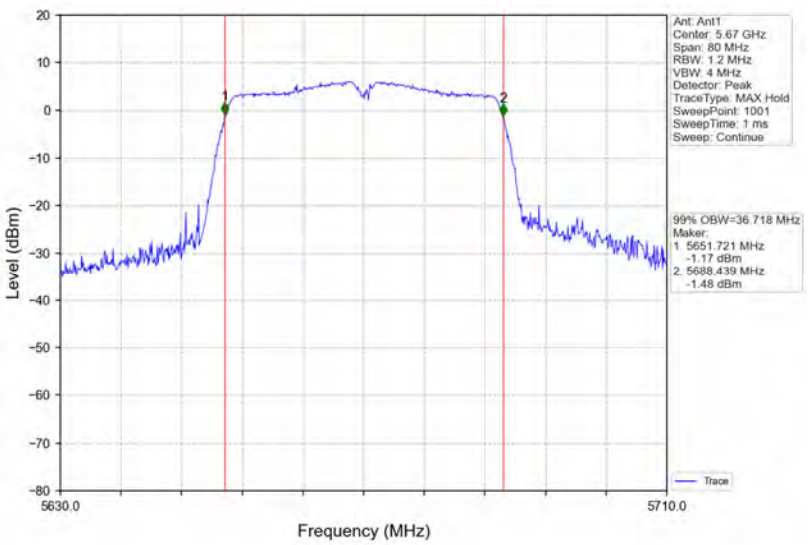

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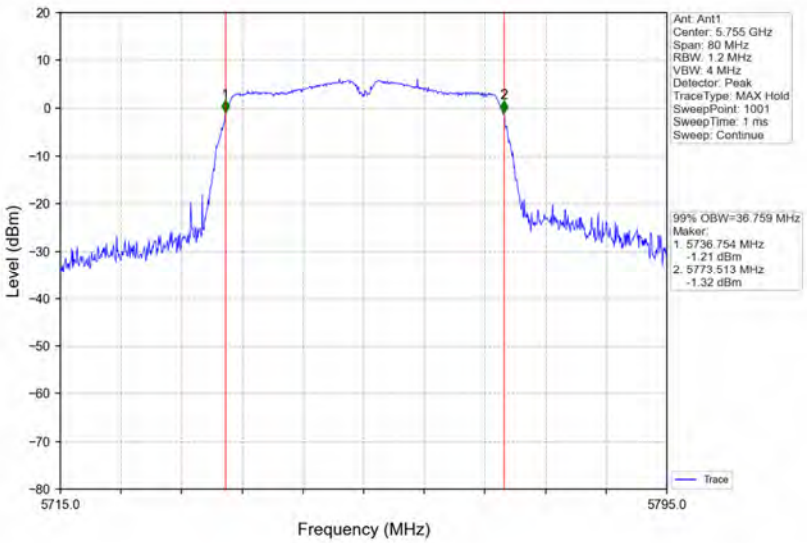
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



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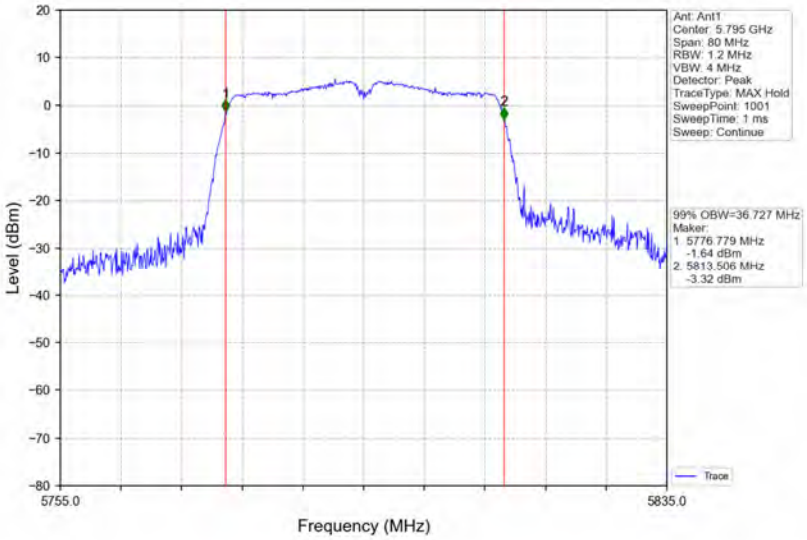

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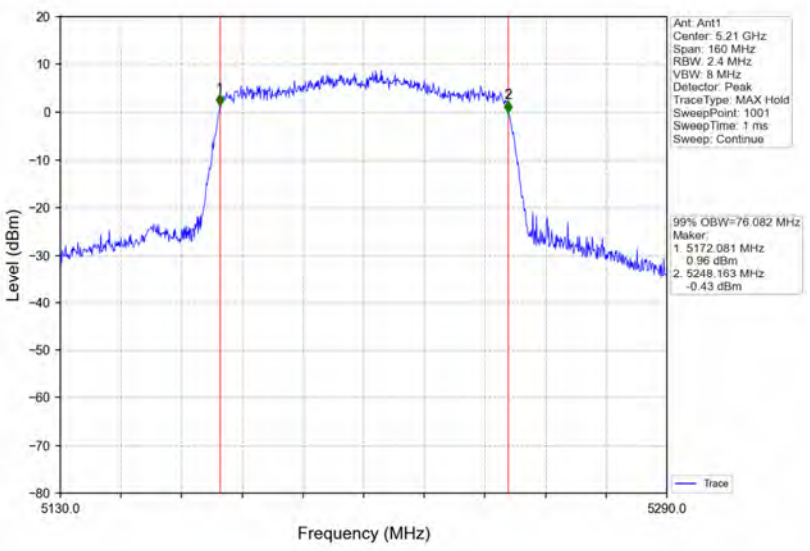
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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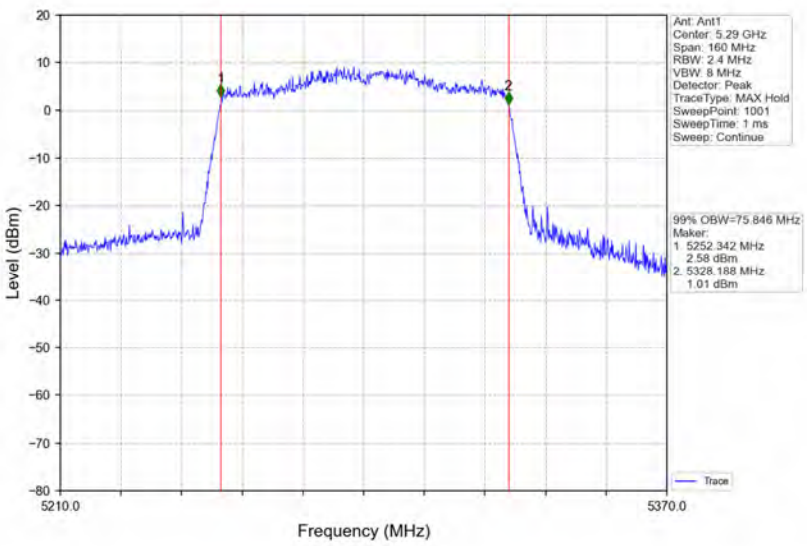

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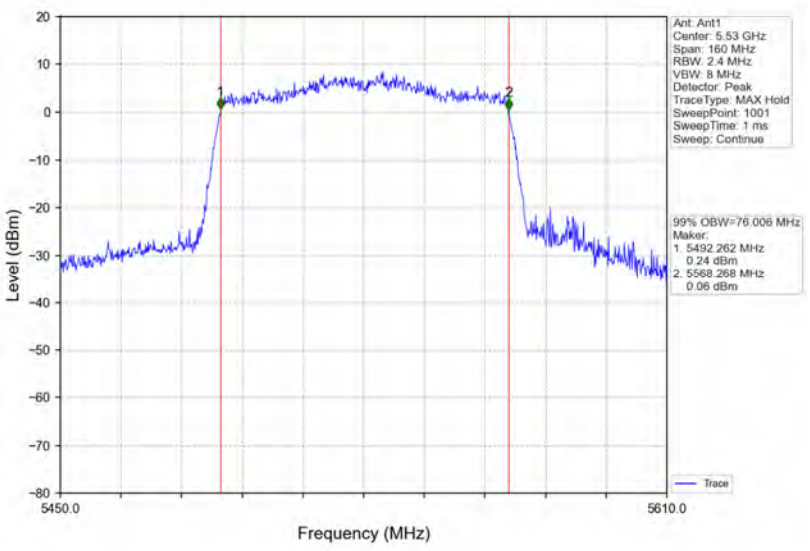
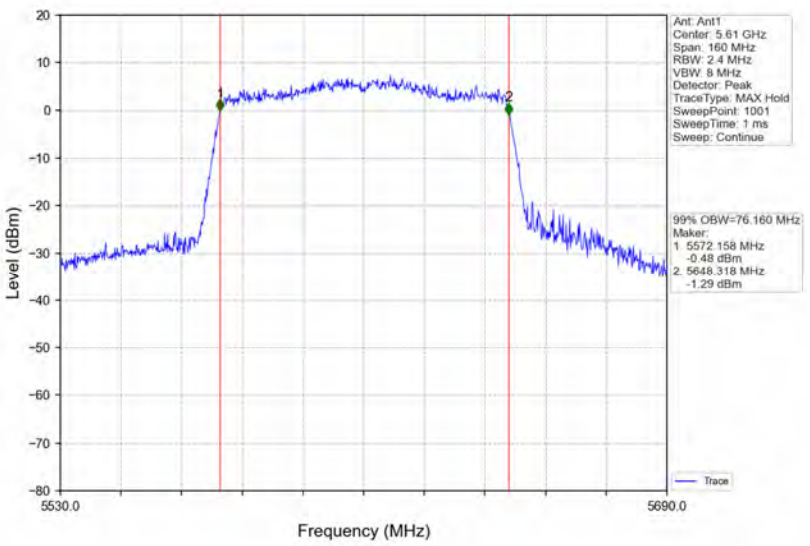
802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



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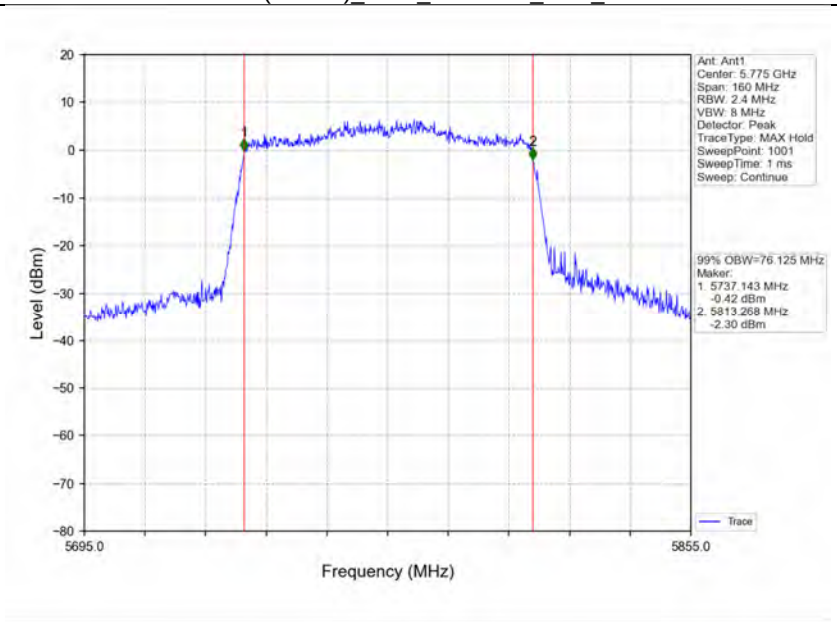
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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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	16.354	>=0.5	Pass
		5785	1	16.369	>=0.5	Pass
		5825	1	16.361	>=0.5	Pass
802.11n (HT20)	SISO	5745	1	17.079	>=0.5	Pass
		5785	1	17.552	>=0.5	Pass
		5825	1	17.540	>=0.5	Pass
802.11n (HT40)	SISO	5755	1	36.441	>=0.5	Pass
		5795	1	36.435	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	1	17.071	>=0.5	Pass
		5785	1	17.093	>=0.5	Pass
		5825	1	17.531	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	1	35.861	>=0.5	Pass
		5795	1	36.029	>=0.5	Pass
802.11ac (VHT80)	SISO	5775	1	75.249	>=0.5	Pass

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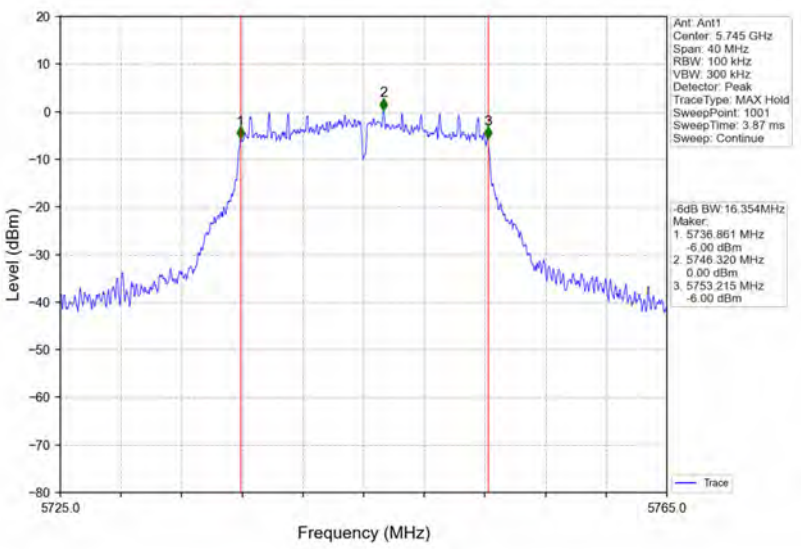
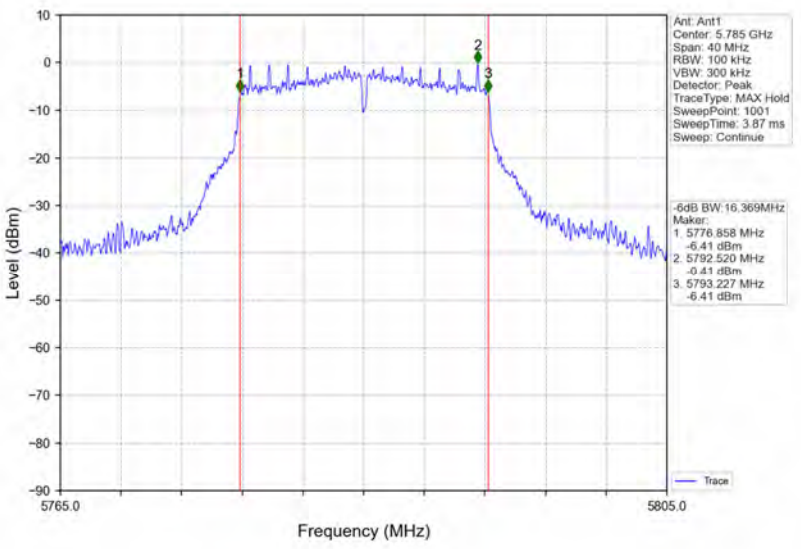
2.2.2 Test Graph

802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant1_NTNV



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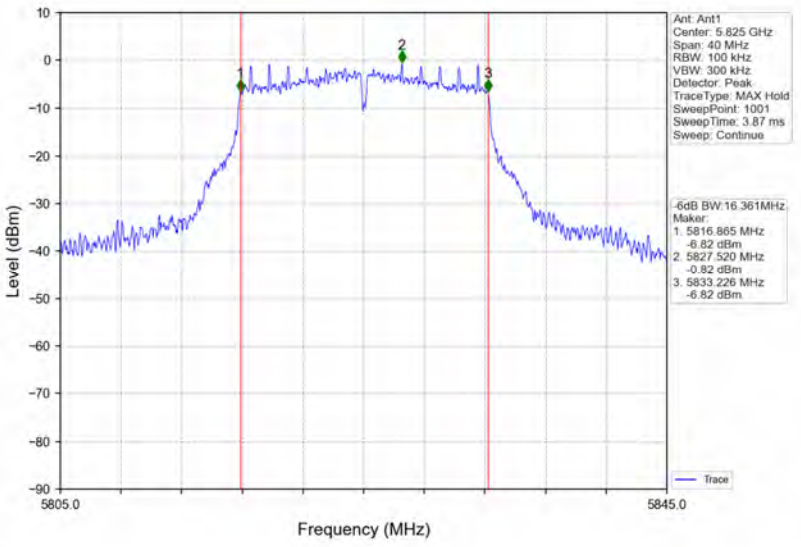
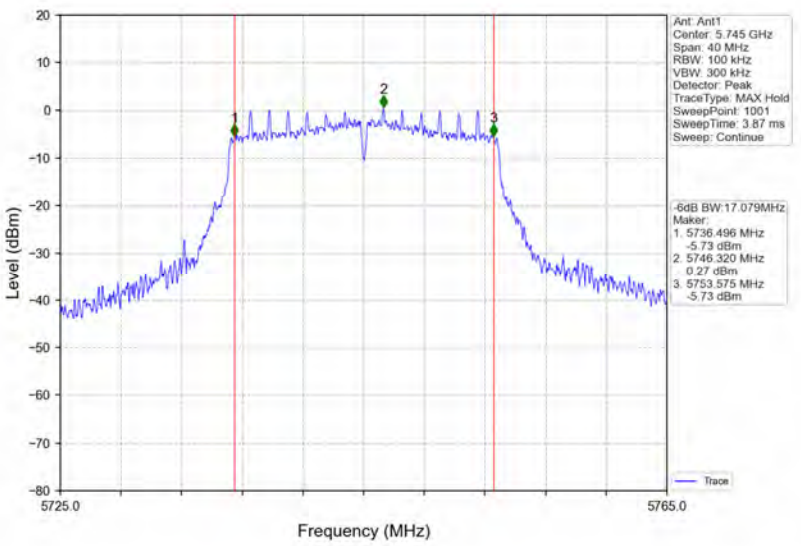
802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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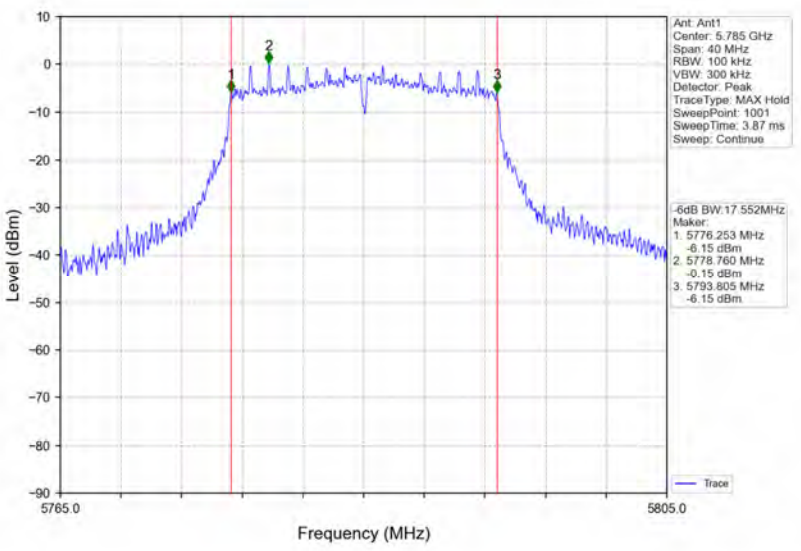
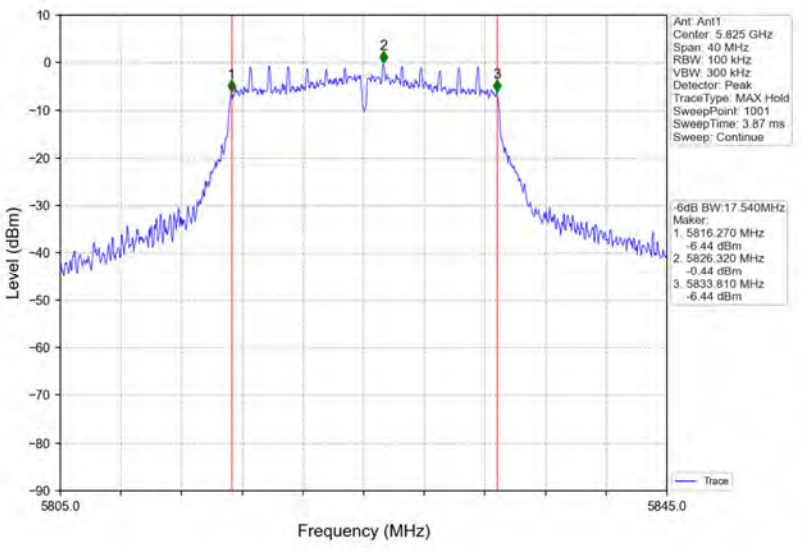
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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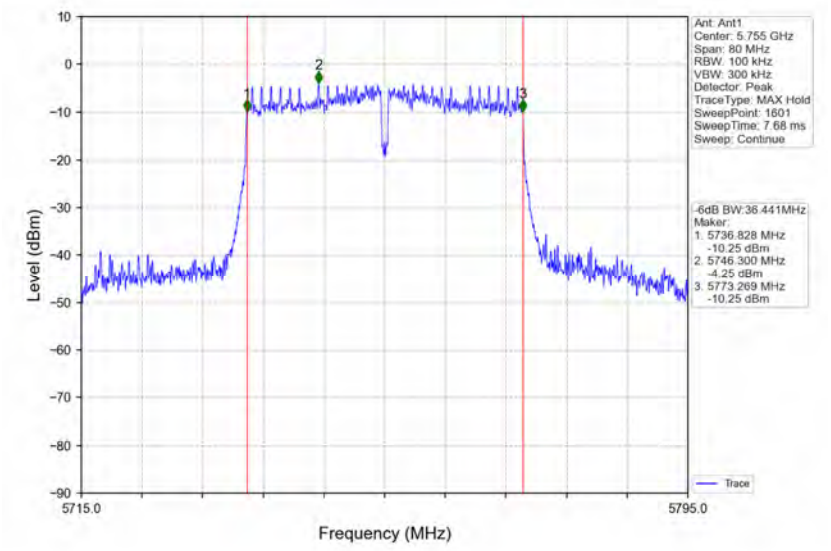
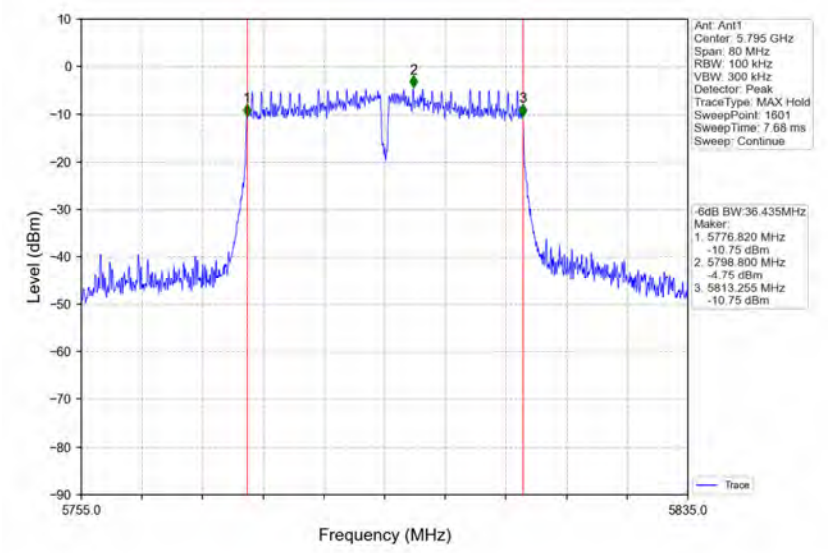
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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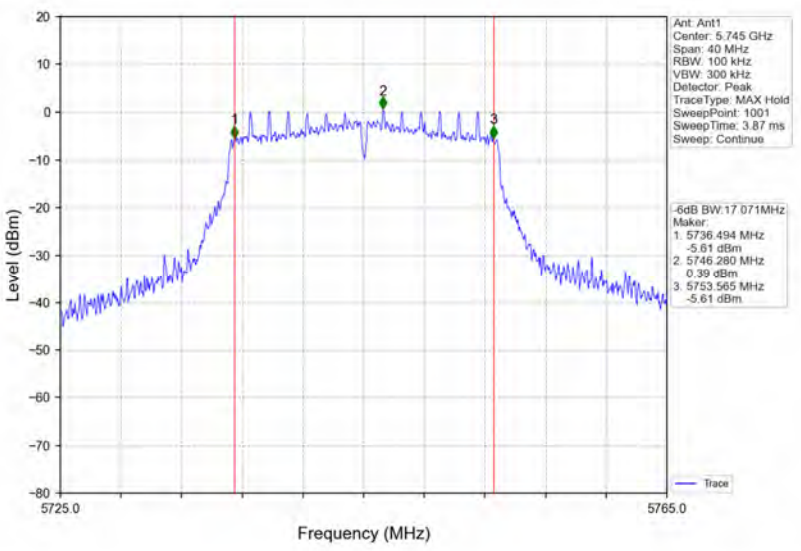
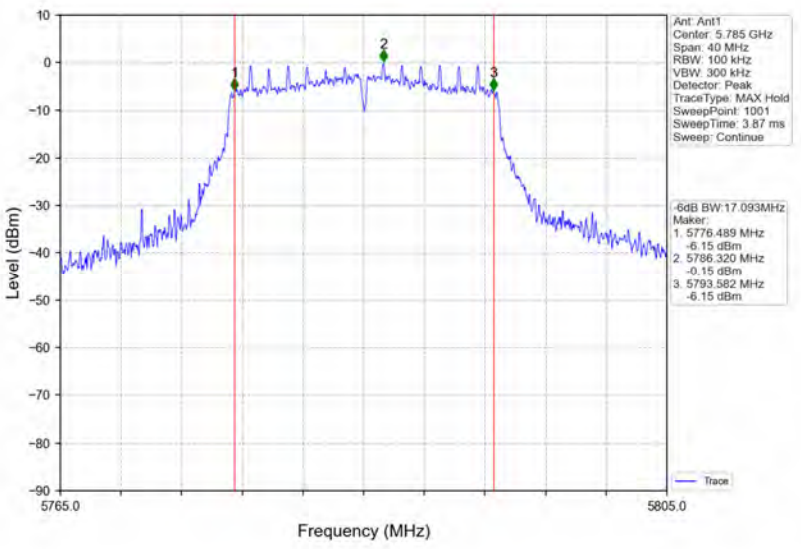
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



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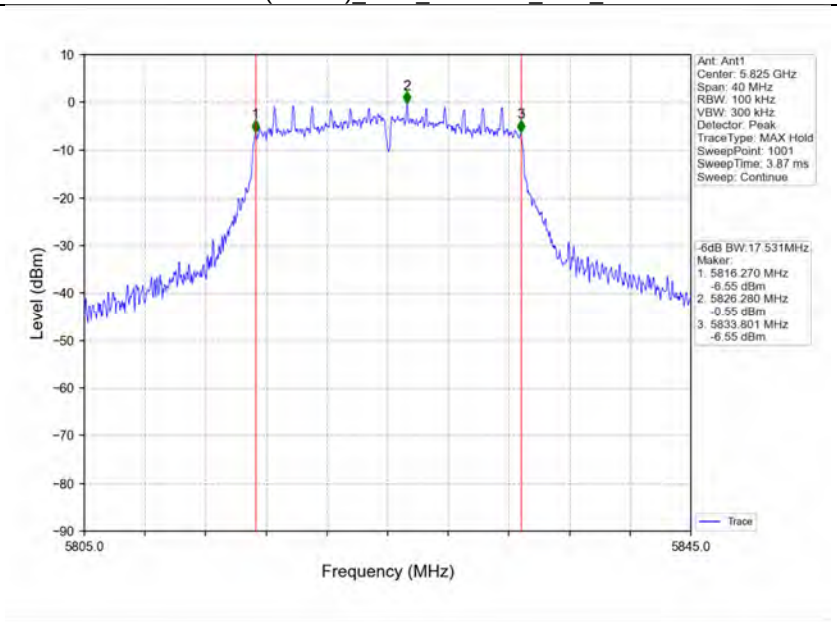
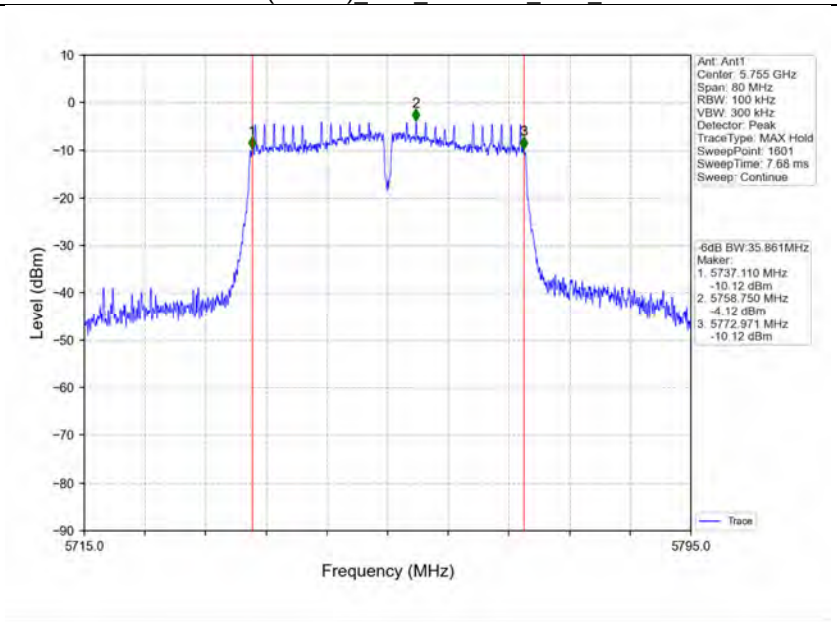
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



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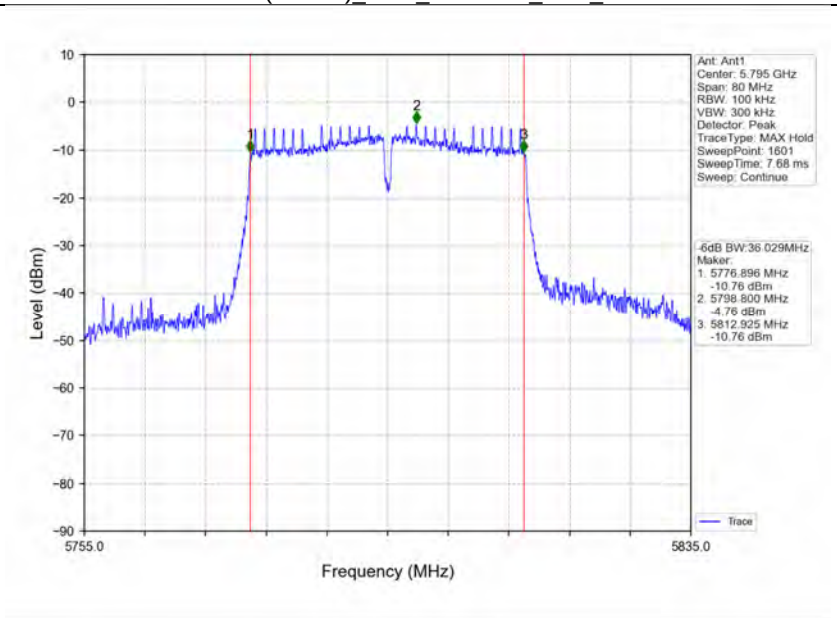
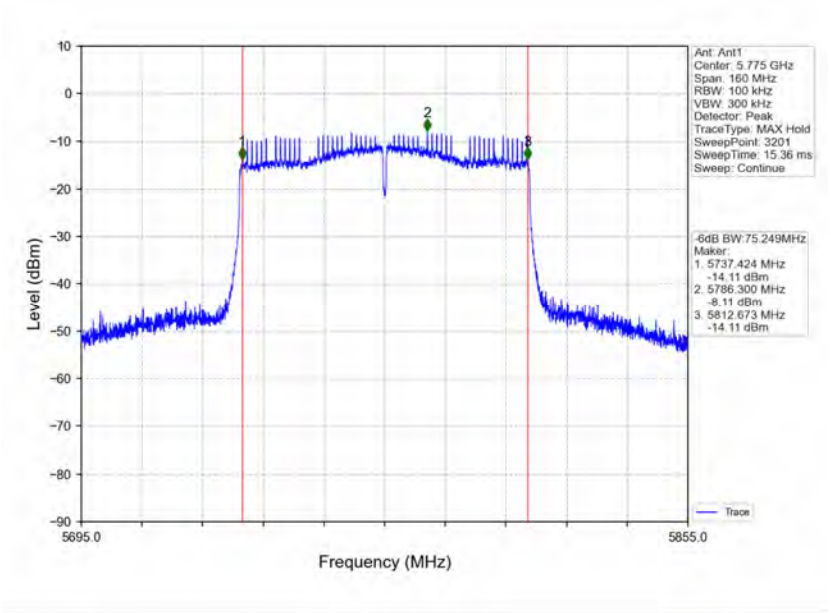
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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2.3 26dB BW

2.3.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz) Result	Verdict
802.11a	SISO	5180	1	22.467	Pass
		5200	1	22.303	Pass
		5240	1	22.723	Pass
		5260	1	22.201	Pass
		5300	1	22.215	Pass
		5320	1	22.309	Pass
		5500	1	22.309	Pass
		5580	1	22.341	Pass
		5700	1	22.223	Pass
802.11n (HT20)	SISO	5180	1	25.133	Pass
		5200	1	23.363	Pass
		5240	1	24.878	Pass
		5260	1	25.834	Pass
		5300	1	23.392	Pass
		5320	1	27.487	Pass
		5500	1	24.911	Pass
		5580	1	22.733	Pass
		5700	1	23.220	Pass
802.11n (HT40)	SISO	5190	1	40.748	Pass
		5230	1	40.737	Pass
		5270	1	40.611	Pass
		5310	1	40.697	Pass
		5510	1	41.880	Pass
		5550	1	40.810	Pass
		5670	1	40.665	Pass
802.11ac (VHT20)	SISO	5180	1	24.198	Pass
		5200	1	26.162	Pass
		5240	1	26.851	Pass
		5260	1	22.777	Pass
		5300	1	25.200	Pass
		5320	1	24.365	Pass
		5500	1	23.497	Pass
		5580	1	24.603	Pass
		5700	1	23.105	Pass
802.11ac (VHT40)	SISO	5190	1	41.135	Pass
		5230	1	41.346	Pass
		5270	1	41.194	Pass
		5310	1	41.232	Pass
		5510	1	41.180	Pass
		5550	1	42.128	Pass
		5670	1	41.191	Pass
802.11ac (VHT80)	SISO	5210	1	83.805	Pass
		5290	1	83.378	Pass
		5530	1	83.515	Pass

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		5610	1	83.445	Pass

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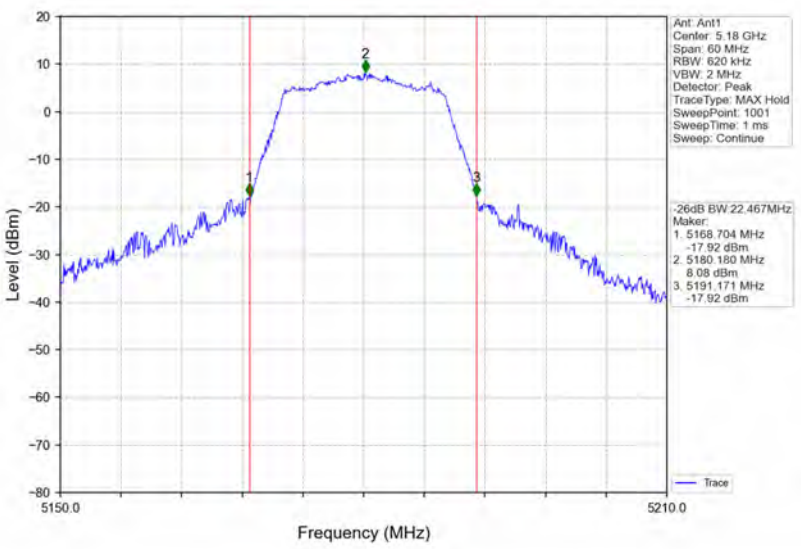
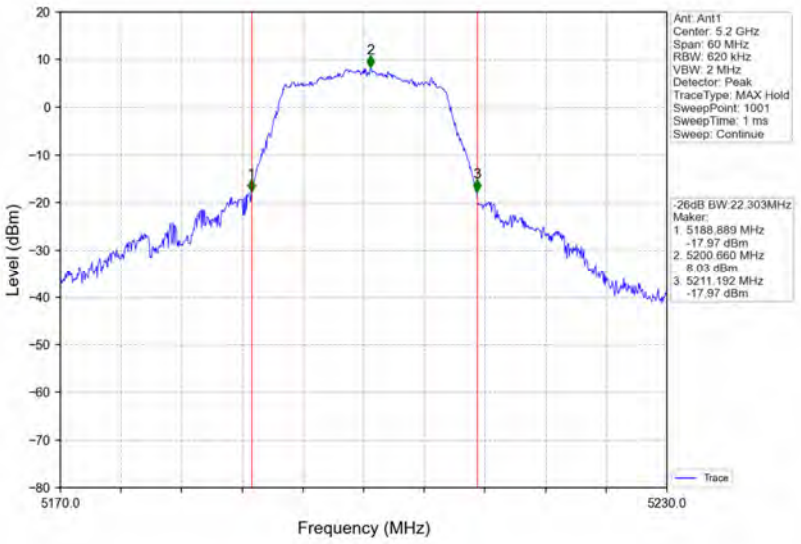
2.3.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV



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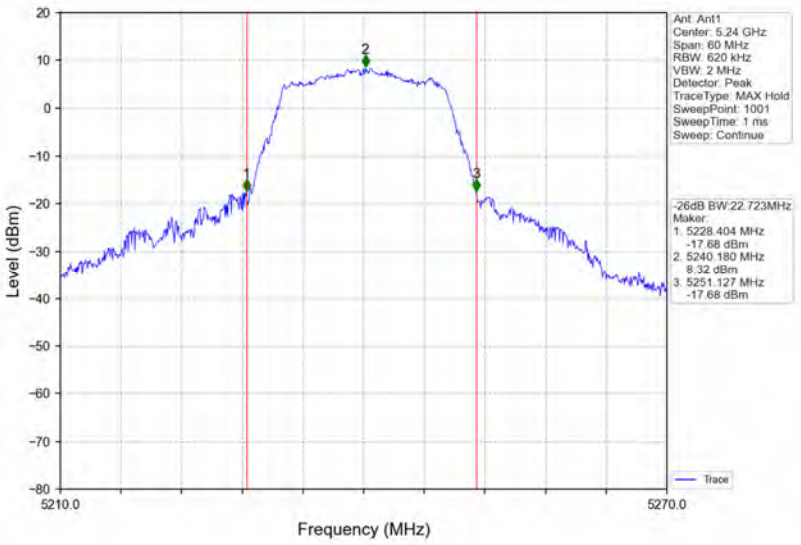
802.11a_HCH_5240MHz_Ant1_NTNV



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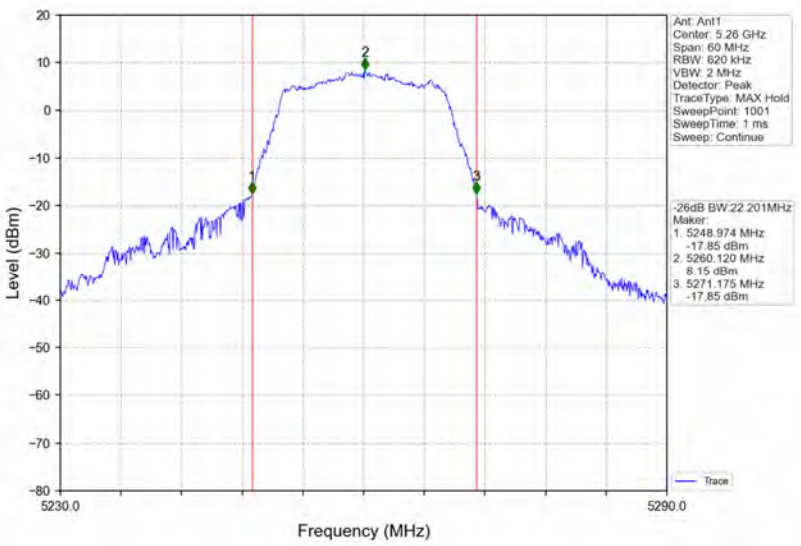

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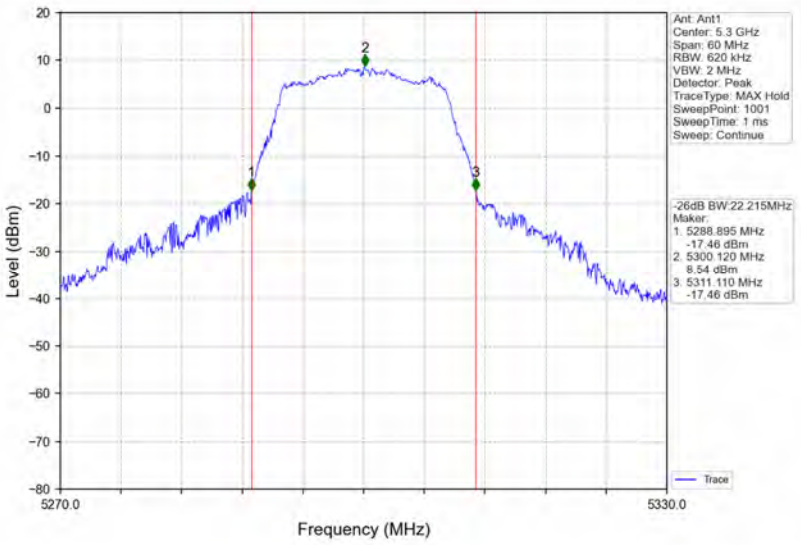
802.11a_MCH_5300MHz_Ant1_NTNV



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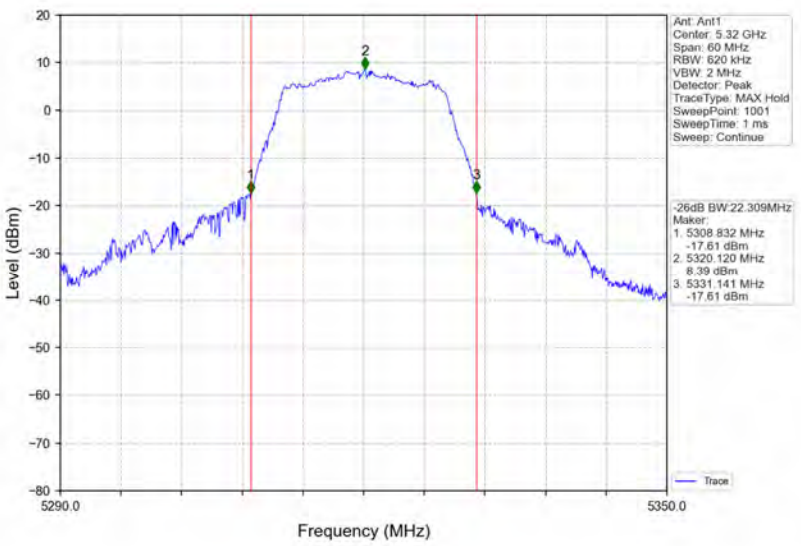

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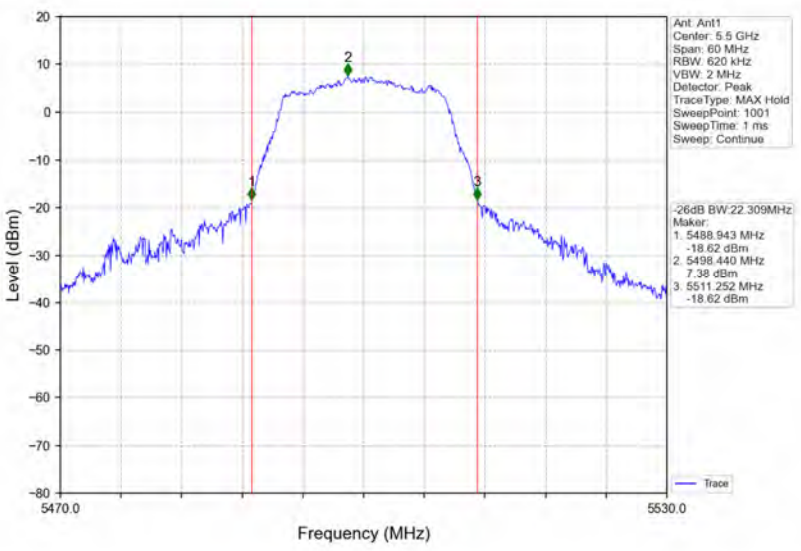
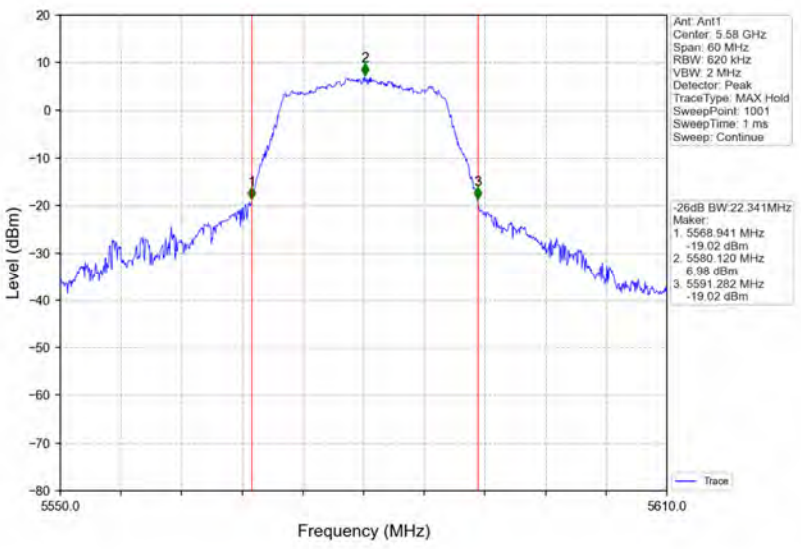
802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



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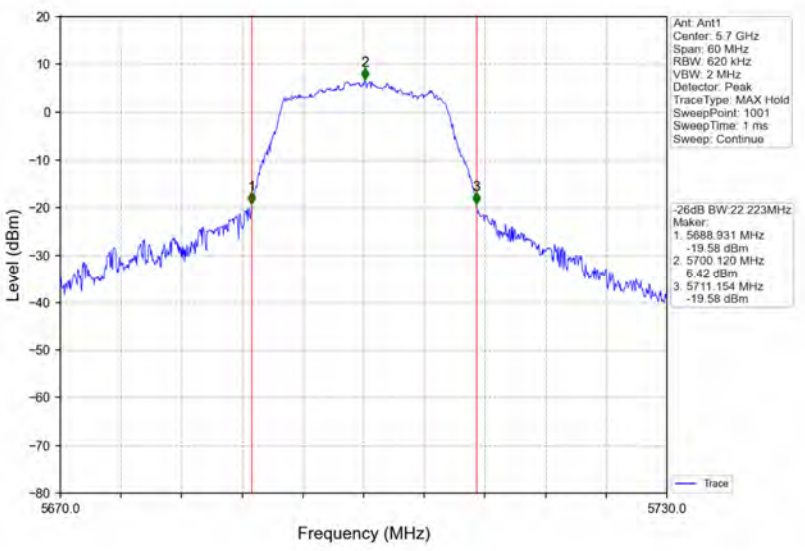
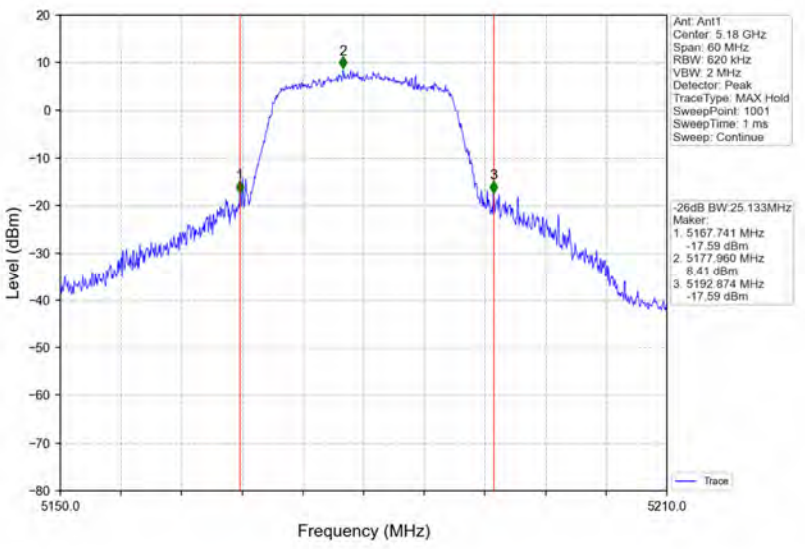
802.11a_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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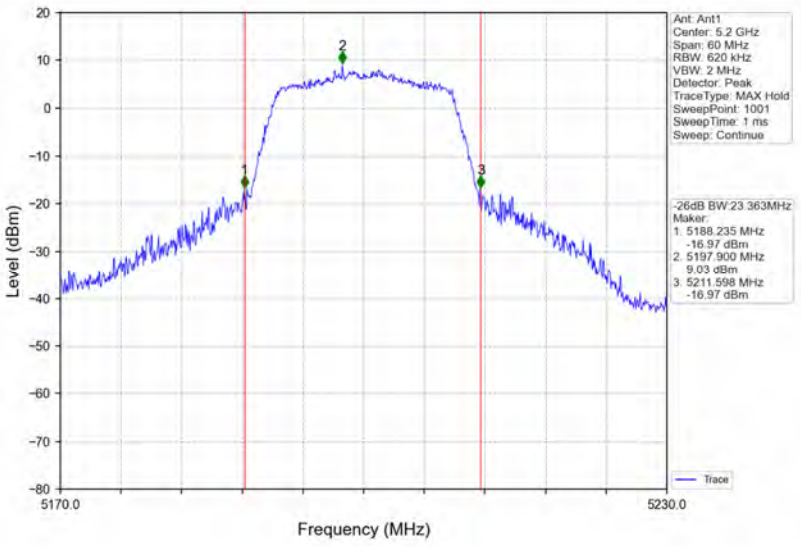
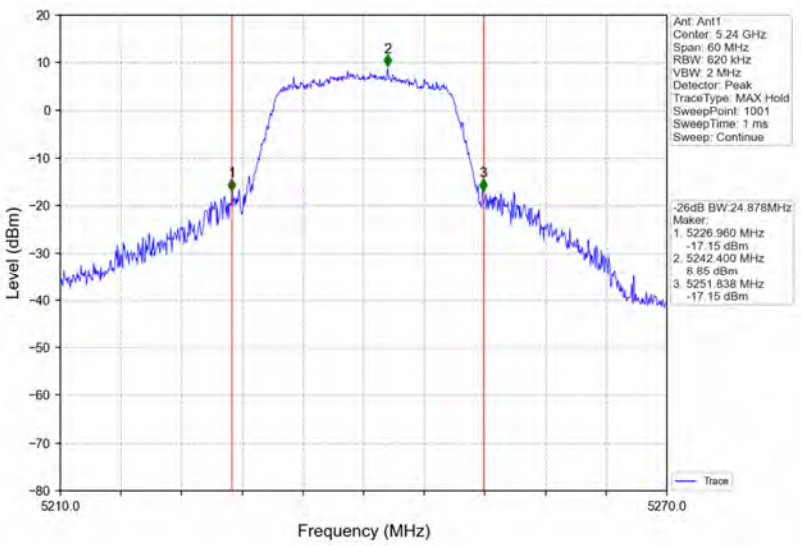
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



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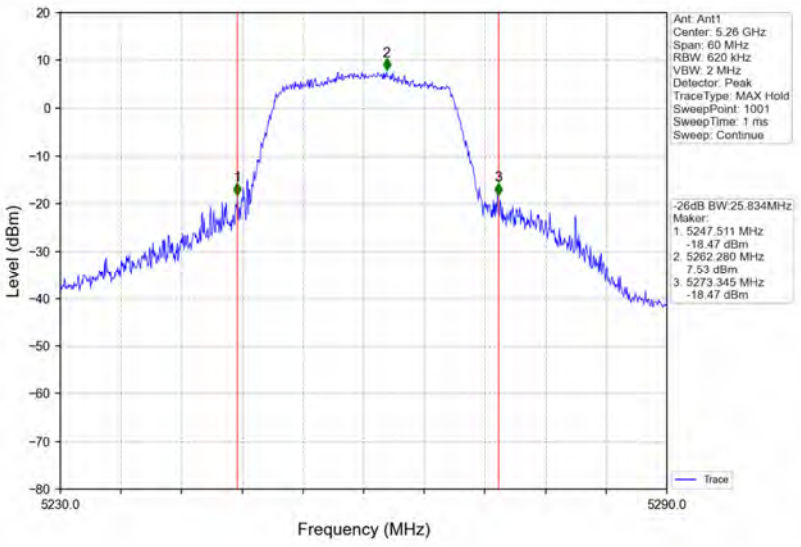
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



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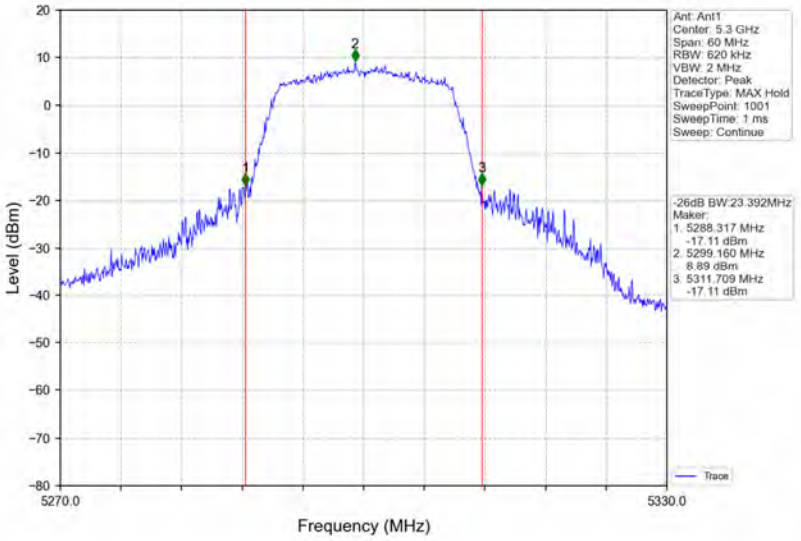

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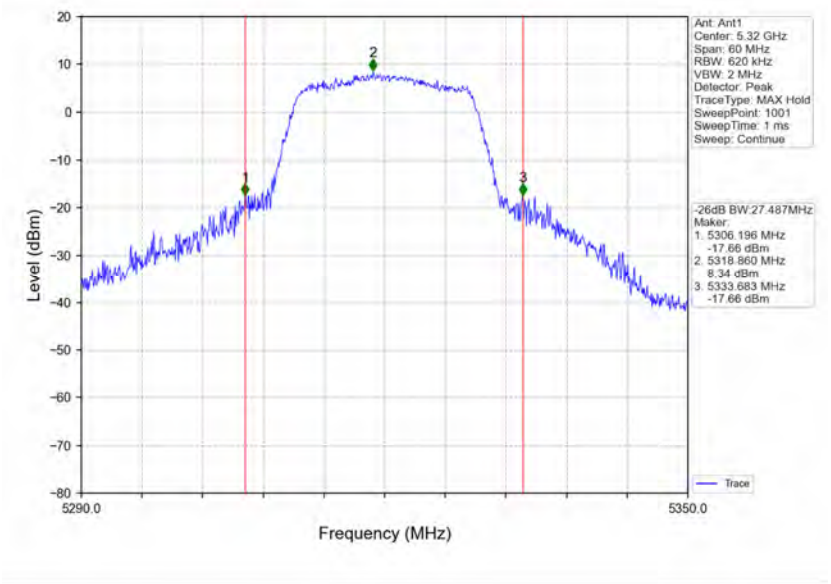
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



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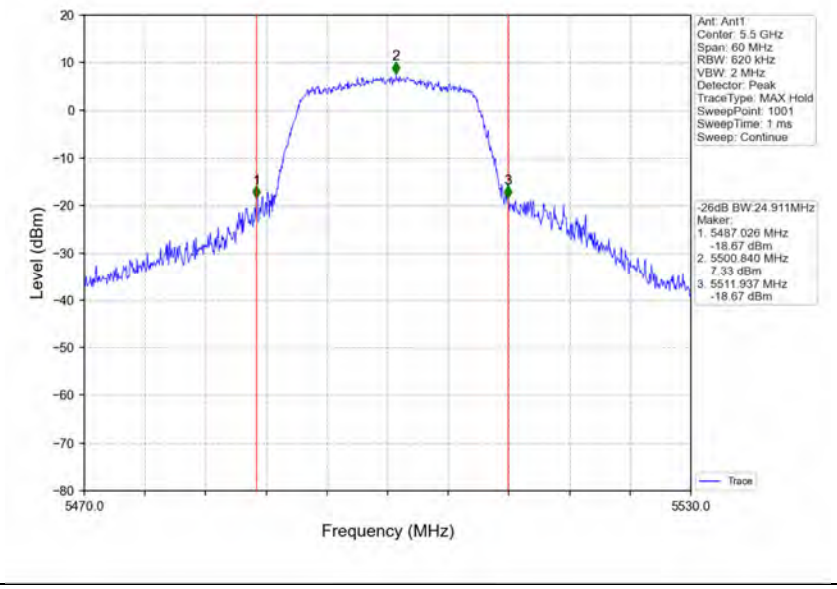

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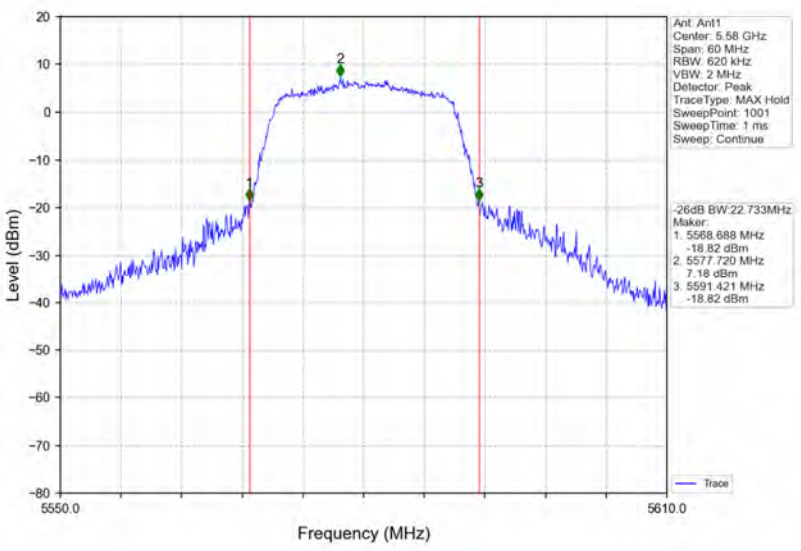
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



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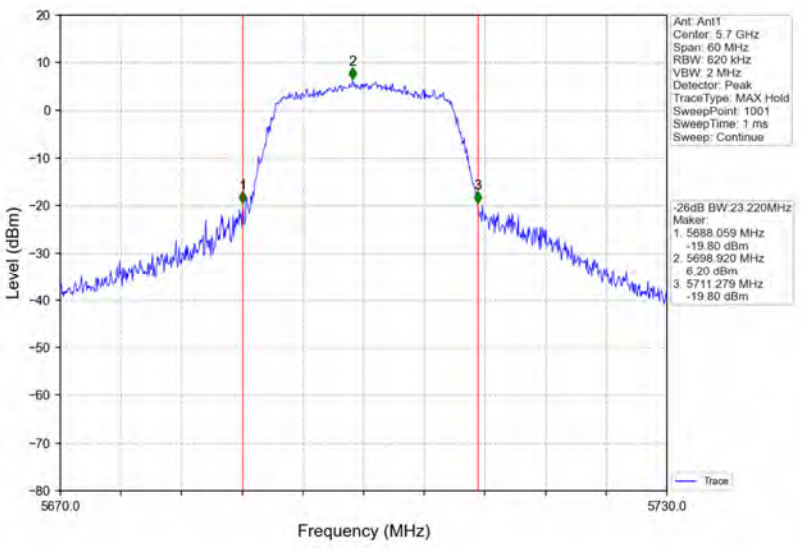

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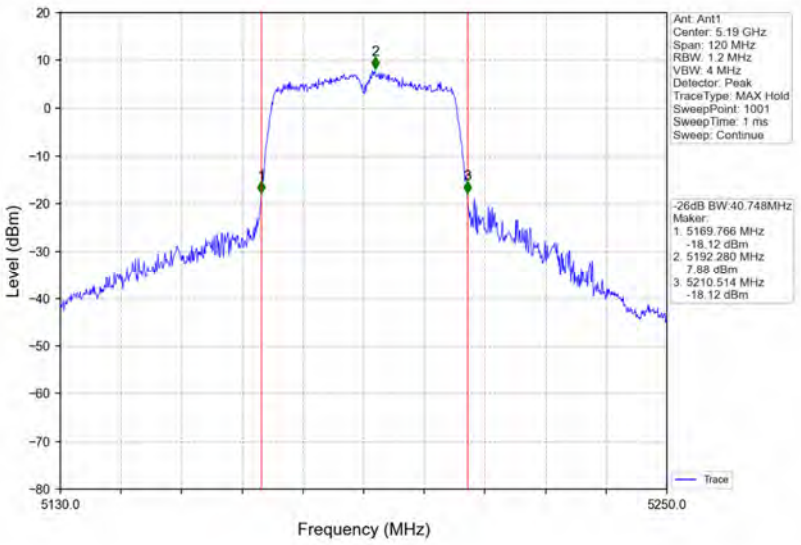
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



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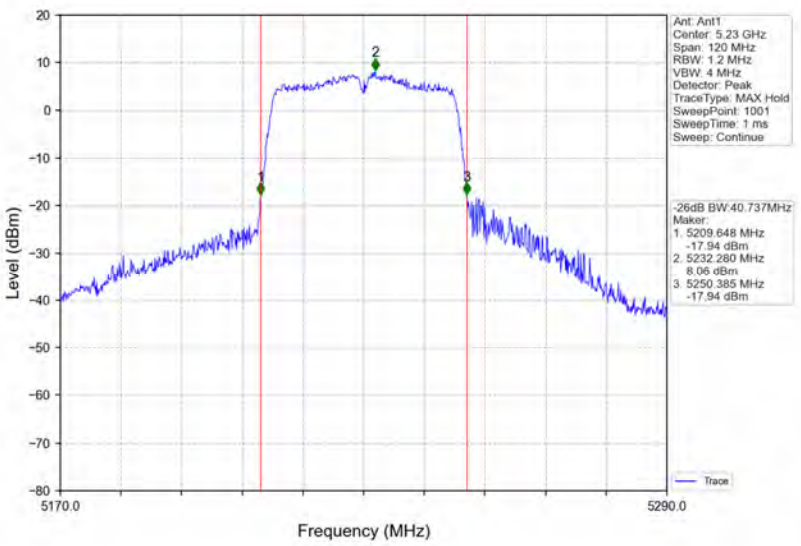

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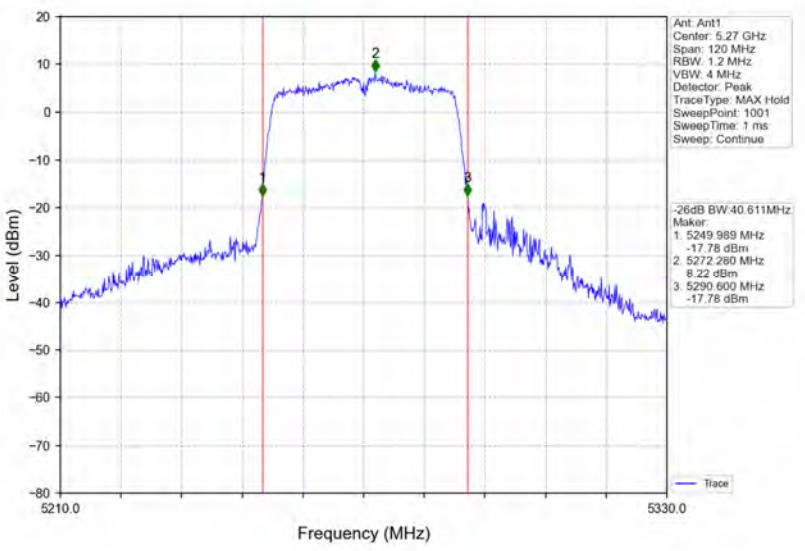
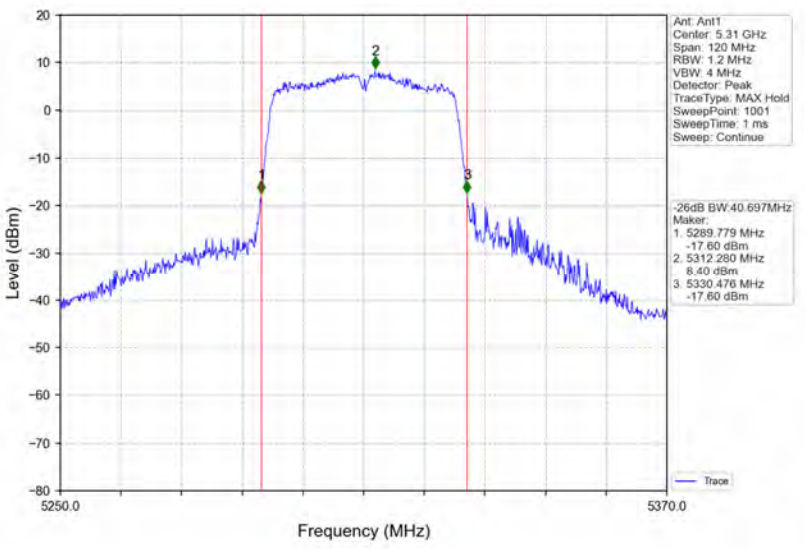
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



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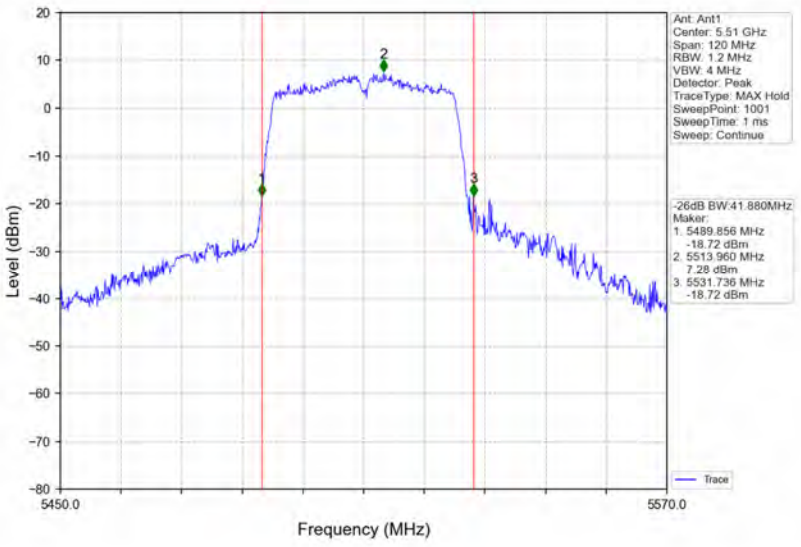
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



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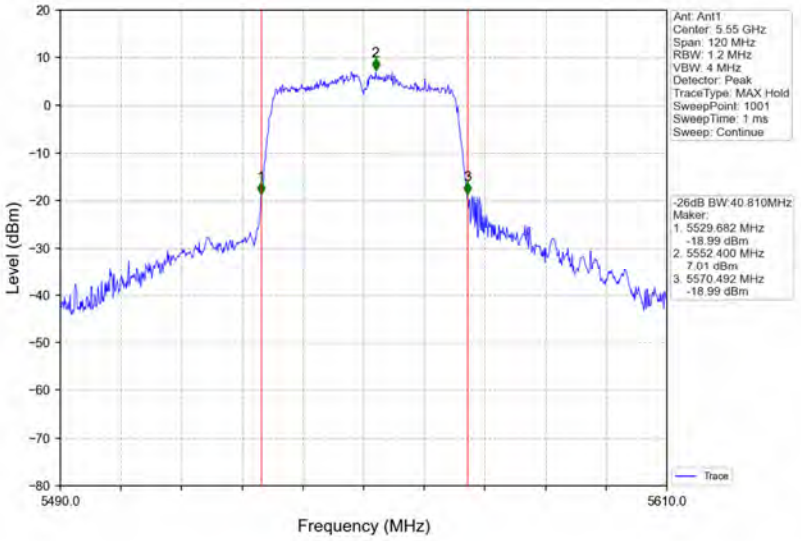

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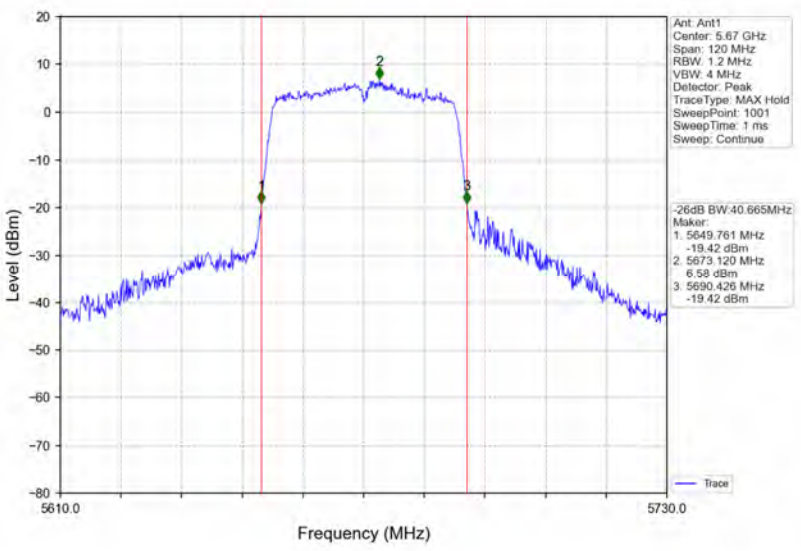
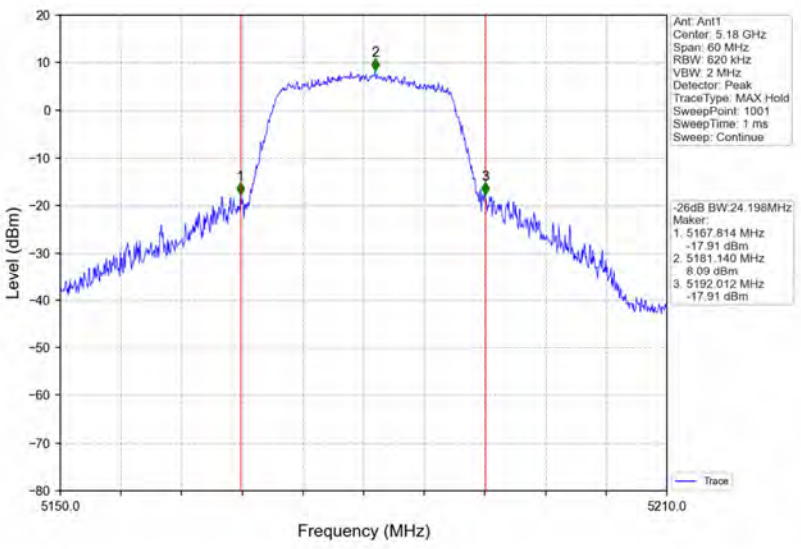
802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



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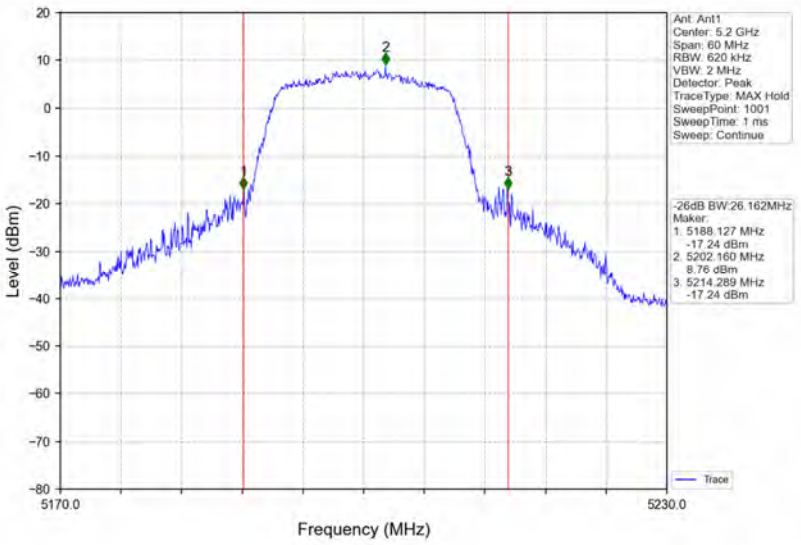
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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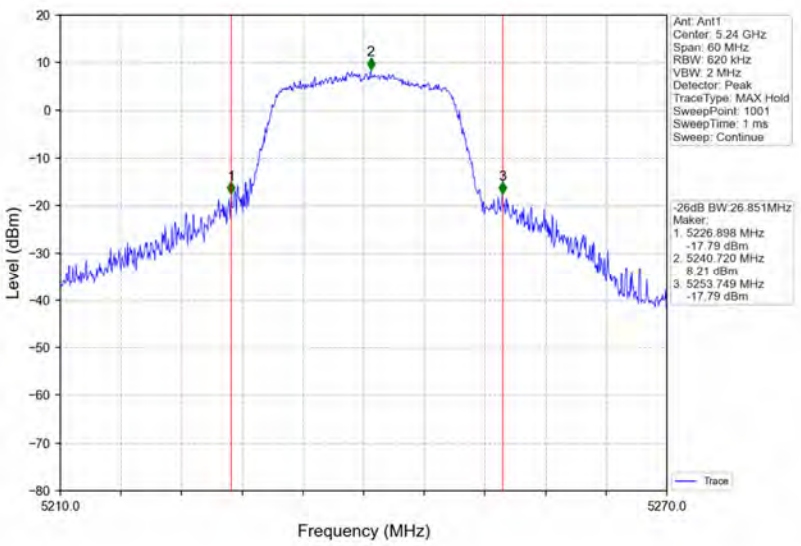

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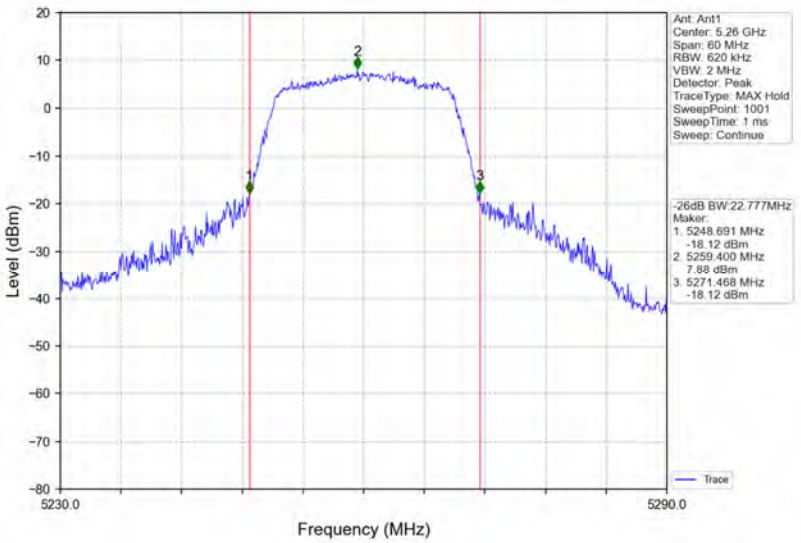
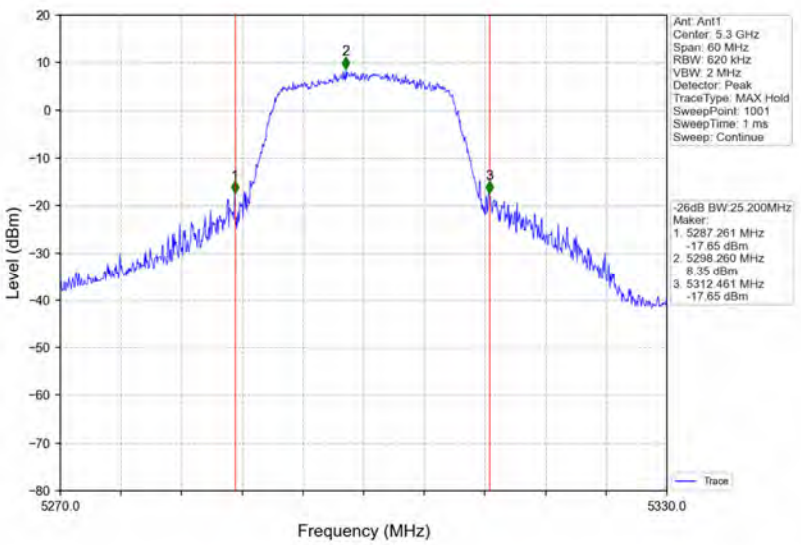
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



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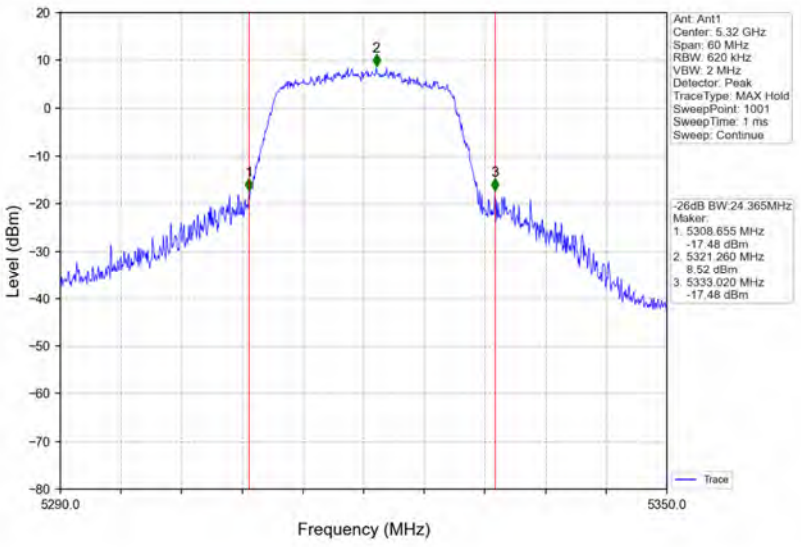
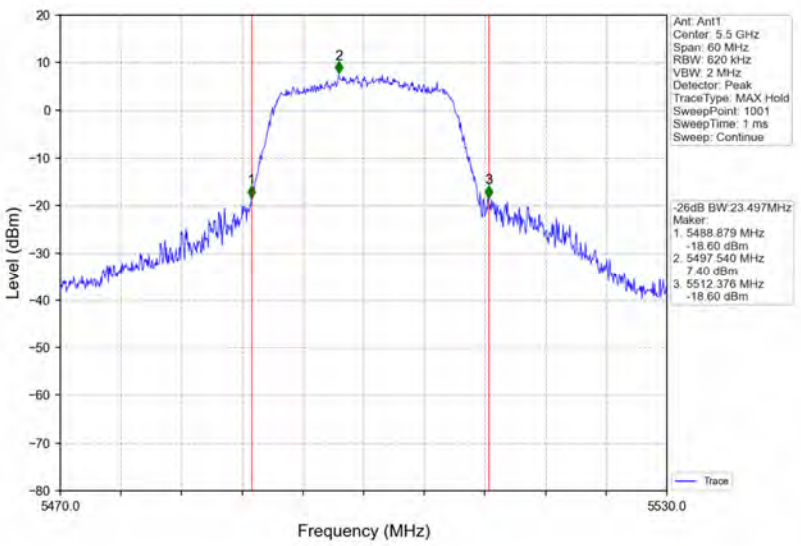
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



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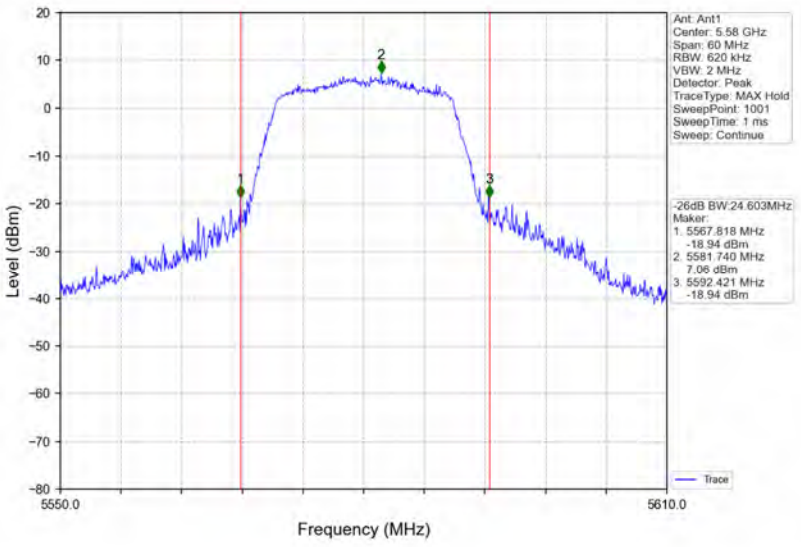
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



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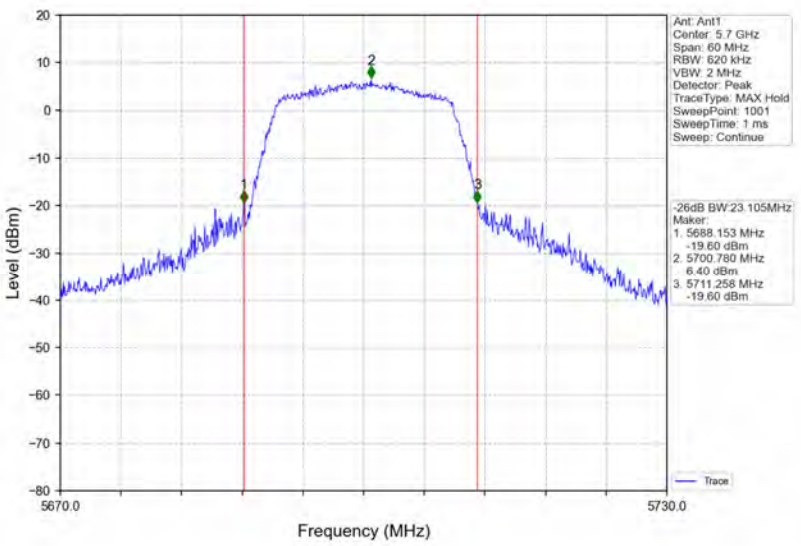

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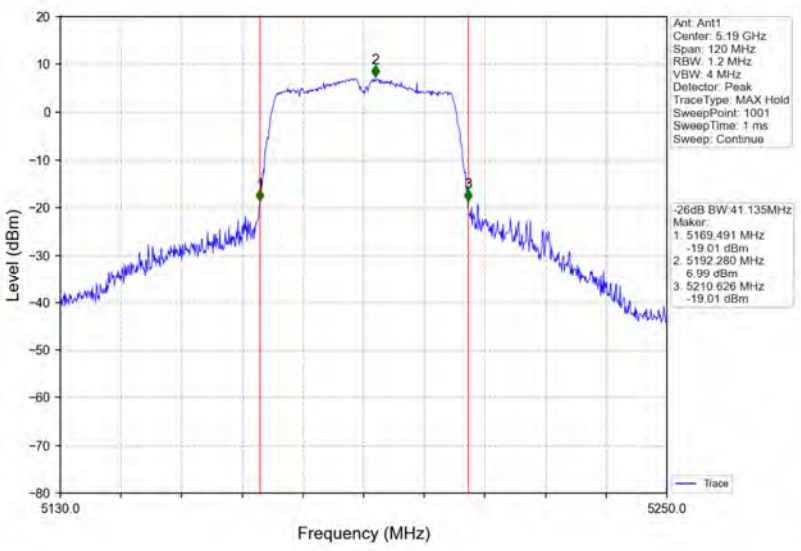
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



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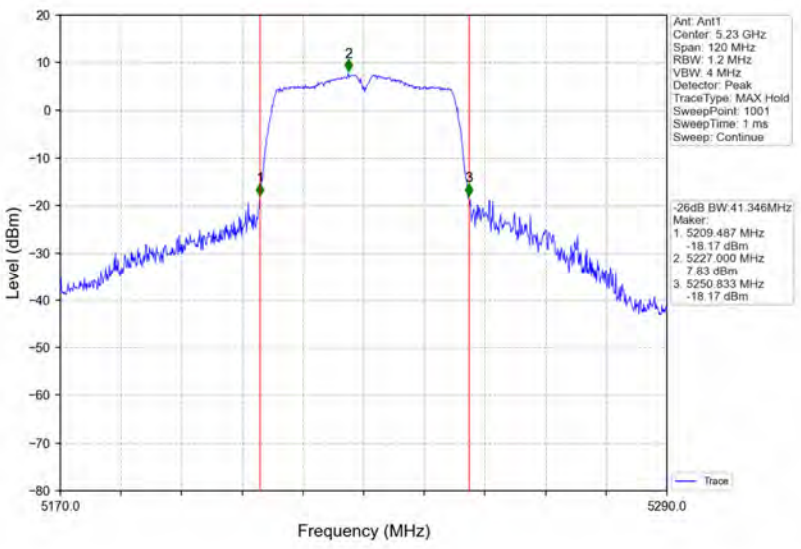

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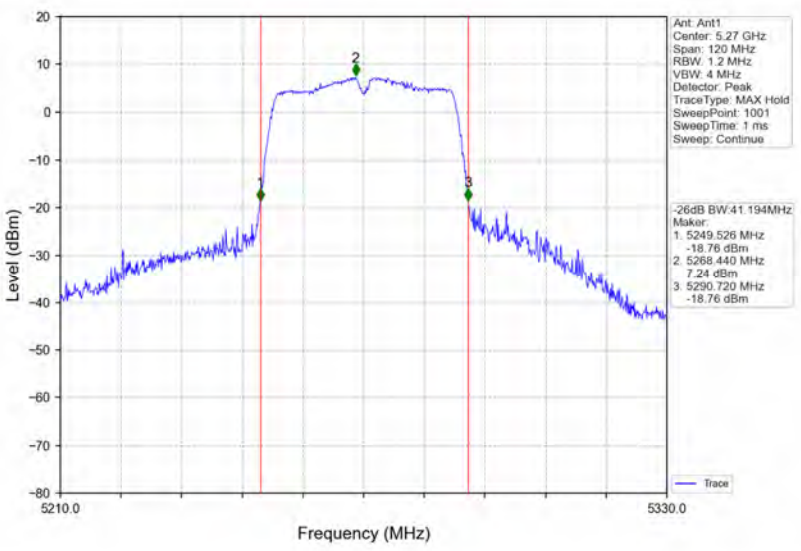
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



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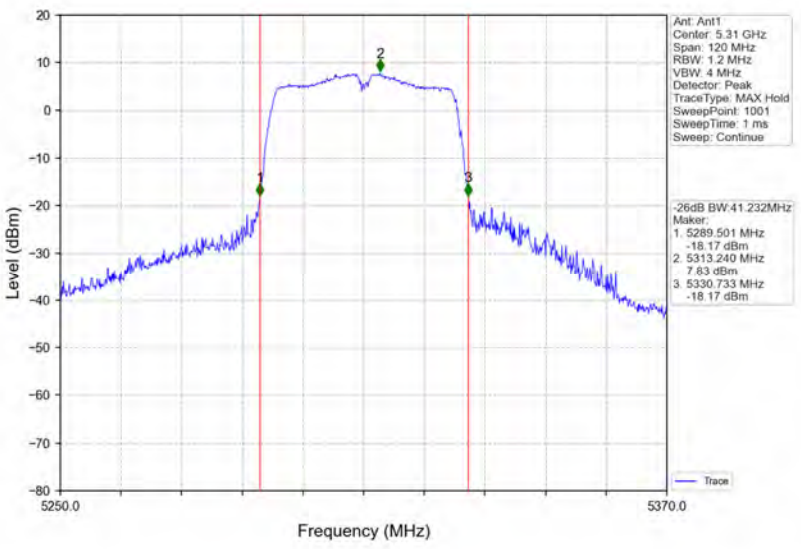

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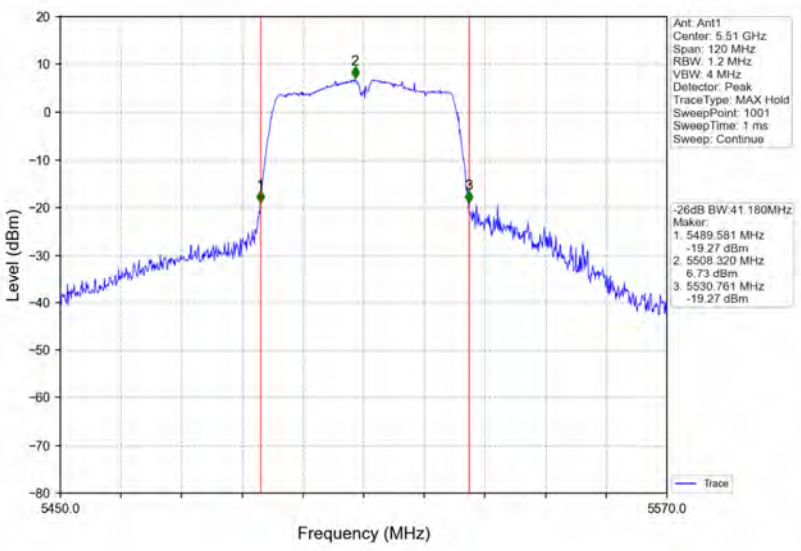
802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



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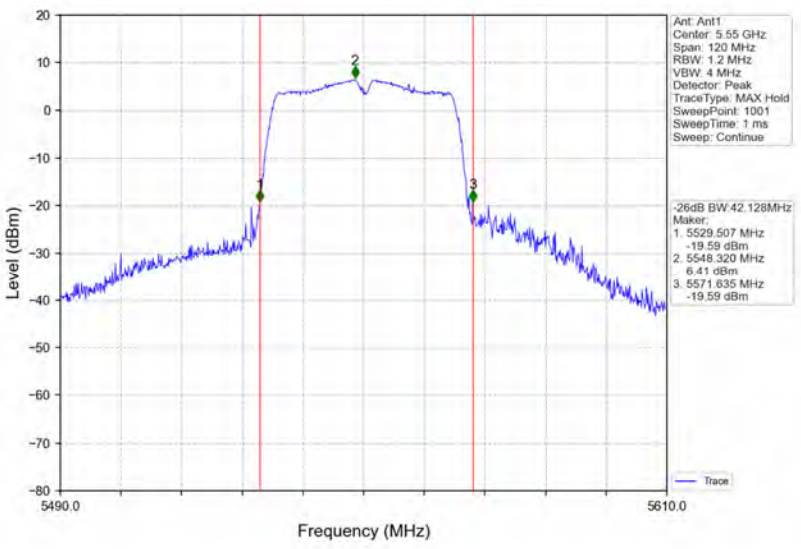

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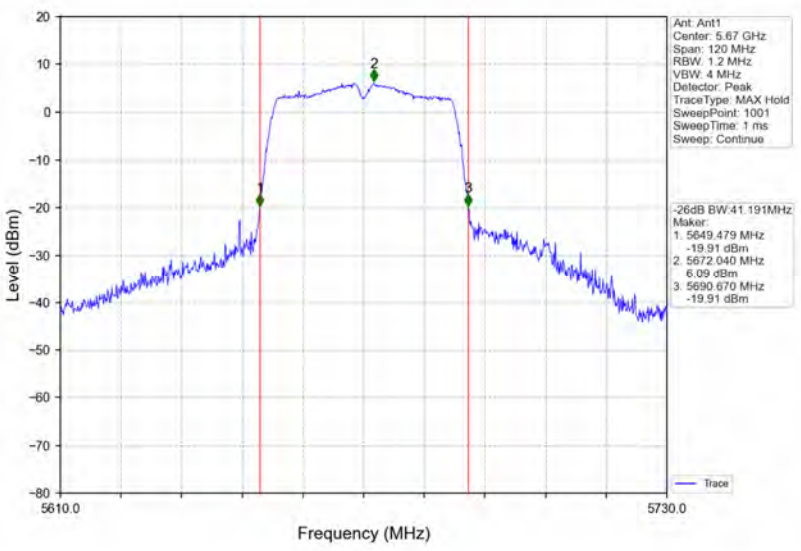
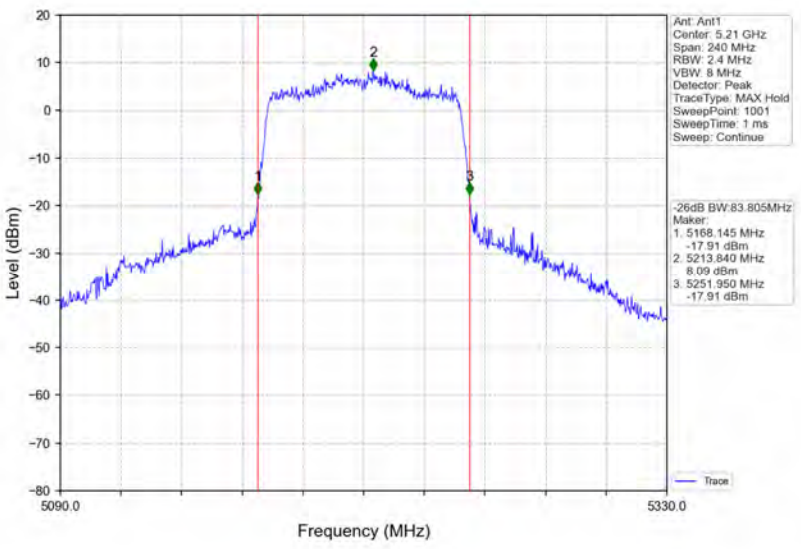
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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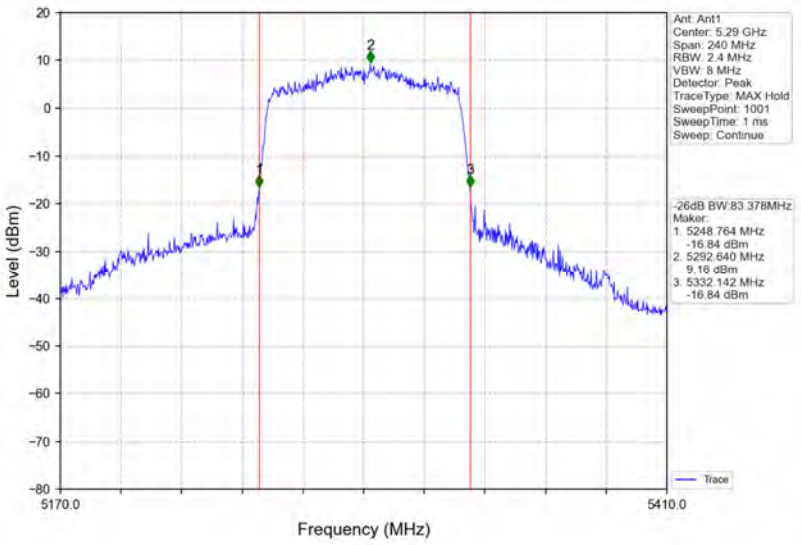
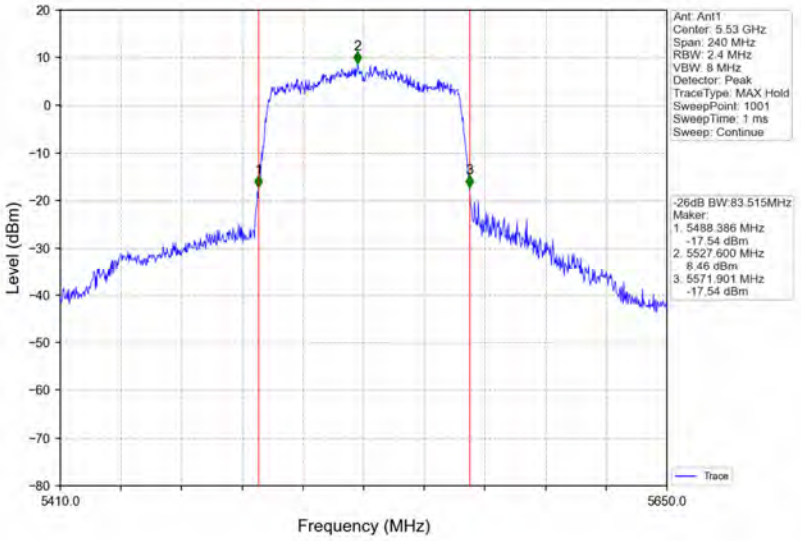
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



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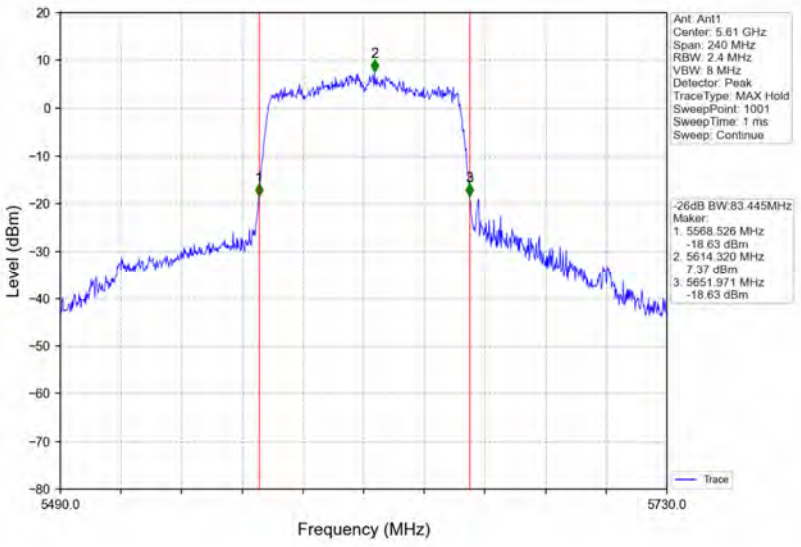
802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

3.1 Power For FCC

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	13.03	<=23.98	Pass
		5200	12.98	<=23.98	Pass
		5240	13.22	<=23.98	Pass
		5260	12.96	<=23.98	Pass
		5300	13.36	<=23.98	Pass
		5320	13.20	<=23.98	Pass
		5500	12.28	<=23.98	Pass
		5580	11.83	<=23.98	Pass
		5700	11.38	<=23.98	Pass
		5745	11.34	<=30	Pass
		5785	10.94	<=30	Pass
		5825	10.69	<=30	Pass
802.11n (HT20)	SISO	5180	12.83	<=23.98	Pass
		5200	12.74	<=23.98	Pass
		5240	12.79	<=23.98	Pass
		5260	12.57	<=23.98	Pass
		5300	13.06	<=23.98	Pass
		5320	13.00	<=23.98	Pass
		5500	12.16	<=23.98	Pass
		5580	11.65	<=23.98	Pass
		5700	10.96	<=23.98	Pass
		5745	11.12	<=30	Pass
		5785	10.67	<=30	Pass
		5825	10.41	<=30	Pass
802.11n (HT40)	SISO	5190	11.30	<=23.98	Pass
		5230	11.45	<=23.98	Pass
		5270	11.42	<=23.98	Pass
		5310	11.58	<=23.98	Pass
		5510	10.88	<=23.98	Pass
		5550	10.29	<=23.98	Pass
		5670	9.93	<=23.98	Pass
		5755	9.60	<=30	Pass
		5795	9.11	<=30	Pass
802.11ac (VHT20)	SISO	5180	12.88	<=23.98	Pass
		5200	12.81	<=23.98	Pass
		5240	12.77	<=23.98	Pass
		5260	12.54	<=23.98	Pass
		5300	12.89	<=23.98	Pass
		5320	12.99	<=23.98	Pass
		5500	12.11	<=23.98	Pass
		5580	11.51	<=23.98	Pass

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		5700	11.08	<=23.98	Pass
		5745	11.27	<=30	Pass
		5785	10.63	<=30	Pass
		5825	10.35	<=30	Pass
802.11ac (VHT40)	SISO	5190	11.26	<=23.98	Pass
		5230	11.56	<=23.98	Pass
		5270	11.36	<=23.98	Pass
		5310	11.59	<=23.98	Pass
		5510	10.86	<=23.98	Pass
		5550	10.51	<=23.98	Pass
		5670	10.02	<=23.98	Pass
		5755	9.89	<=30	Pass
		5795	9.17	<=30	Pass
802.11ac (VHT80)	SISO	5210	9.98	<=23.98	Pass
		5290	10.61	<=23.98	Pass
		5530	9.70	<=23.98	Pass
		5610	8.91	<=23.98	Pass
		5775	8.07	<=30	Pass
Note1: Antenna Gain: 5150-5250MHz: -0.4dBi, 5250-5350MHz: 1.55dBi, 5470-5725MHz: 2.54dBi, 5725-5850MHz: 1.92dBi					

3.2 EIRP For IC

3.2.1 Test Result

Mode	TX Type	Frequency (MHz)	E.I.R.P (dBm)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	12.63	<=22.57	Pass
		5200	12.58	<=22.56	Pass
		5240	12.82	<=22.58	Pass
		5260	14.51	<=29.56	Pass
		5300	14.91	<=29.56	Pass
		5320	14.75	<=29.56	Pass
		5500	14.82	<=29.56	Pass
		5580	14.37	<=29.57	Pass
		5700	13.92	<=29.56	Pass
		5745	13.26	/	Pass
		5785	12.86	/	Pass
		5825	12.61	/	Pass
802.11n (HT20)	SISO	5180	12.43	<=22.78	Pass
		5200	12.34	<=22.77	Pass
		5240	12.39	<=22.78	Pass
		5260	14.12	<=29.78	Pass
		5300	14.61	<=29.77	Pass
		5320	14.55	<=29.78	Pass
		5500	14.70	<=29.78	Pass
		5580	14.19	<=29.77	Pass
		5700	13.50	<=29.77	Pass
		5745	13.04	/	Pass

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		5785	12.59	/	Pass
		5825	12.33	/	Pass
802.11n (HT40)	SISO	5190	10.90	<=23.01	Pass
		5230	11.05	<=23.01	Pass
		5270	12.97	<=30	Pass
		5310	13.13	<=30	Pass
		5510	13.42	<=30	Pass
		5550	12.83	<=30	Pass
		5670	12.47	<=30	Pass
		5755	11.52	/	Pass
		5795	11.03	/	Pass
802.11ac (VHT20)	SISO	5180	12.48	<=22.76	Pass
		5200	12.41	<=22.76	Pass
		5240	12.37	<=22.77	Pass
		5260	14.09	<=29.76	Pass
		5300	14.44	<=29.77	Pass
		5320	14.54	<=29.77	Pass
		5500	14.65	<=29.77	Pass
		5580	14.05	<=29.77	Pass
		5700	13.62	<=29.77	Pass
		5745	13.19	/	Pass
		5785	12.55	/	Pass
		5825	12.27	/	Pass
802.11ac (VHT40)	SISO	5190	10.86	<=23.01	Pass
		5230	11.16	<=23.01	Pass
		5270	12.91	<=30	Pass
		5310	13.14	<=30	Pass
		5510	13.40	<=30	Pass
		5550	13.05	<=30	Pass
		5670	12.56	<=30	Pass
		5755	11.81	/	Pass
		5795	11.09	/	Pass
802.11ac (VHT80)	SISO	5210	9.58	<=23.01	Pass
		5290	12.16	<=30	Pass
		5530	12.24	<=30	Pass
		5775	9.99	/	Pass
Note1: Antenna Gain: 5150-5250MHz: -0.4dBi, 5250-5350MHz: 1.55dBi, 5470-5725MHz: 2.54dBi, 5725-5850MHz: 1.92dBi Note2: E.I.R.P = Measured Power + Antenna Gain					

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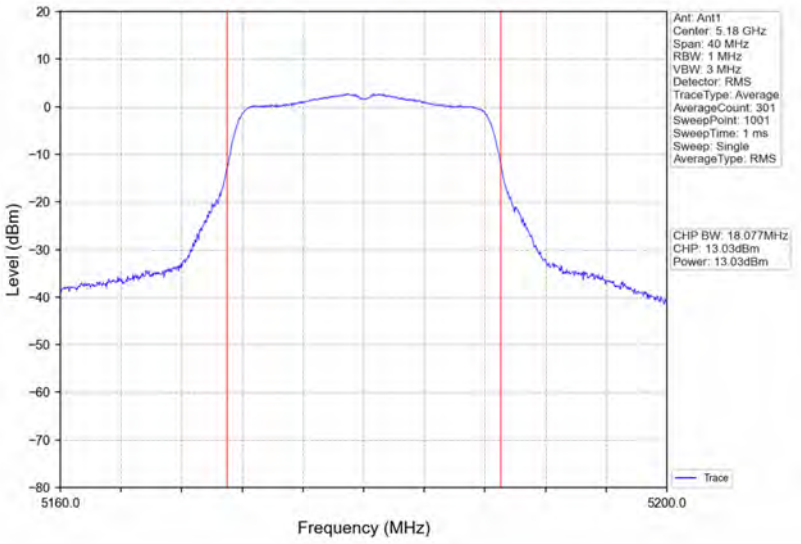
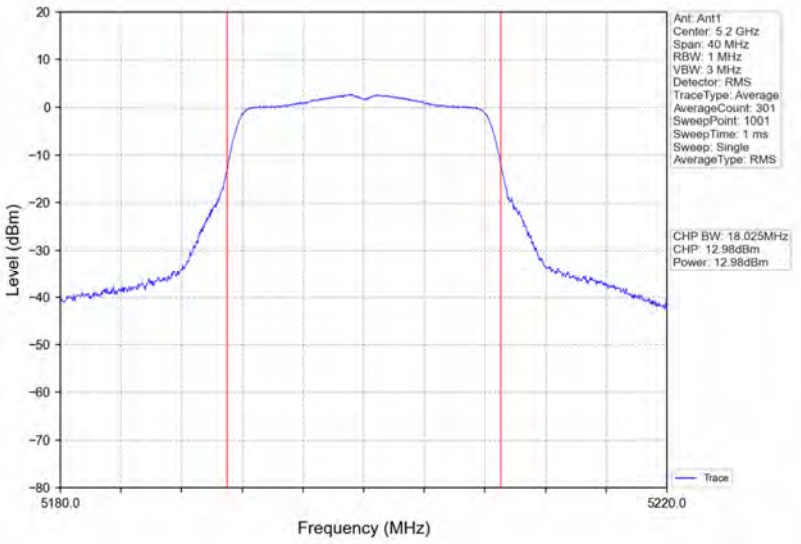
3.2.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV



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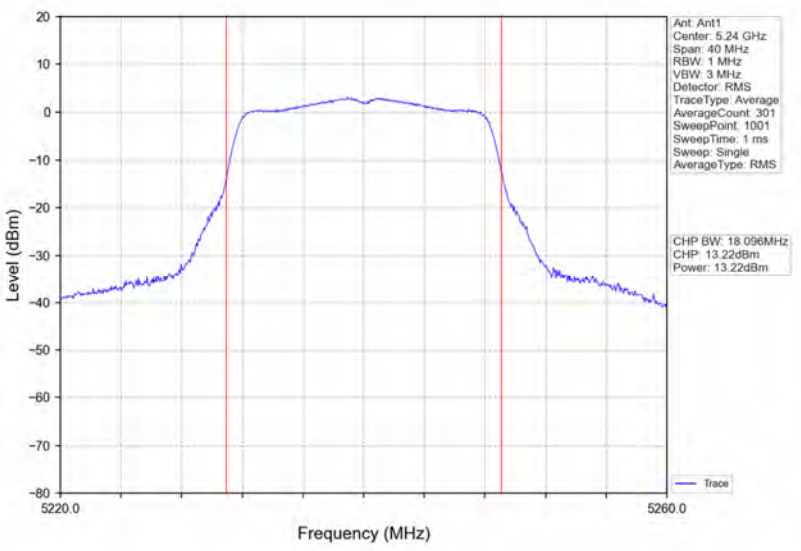
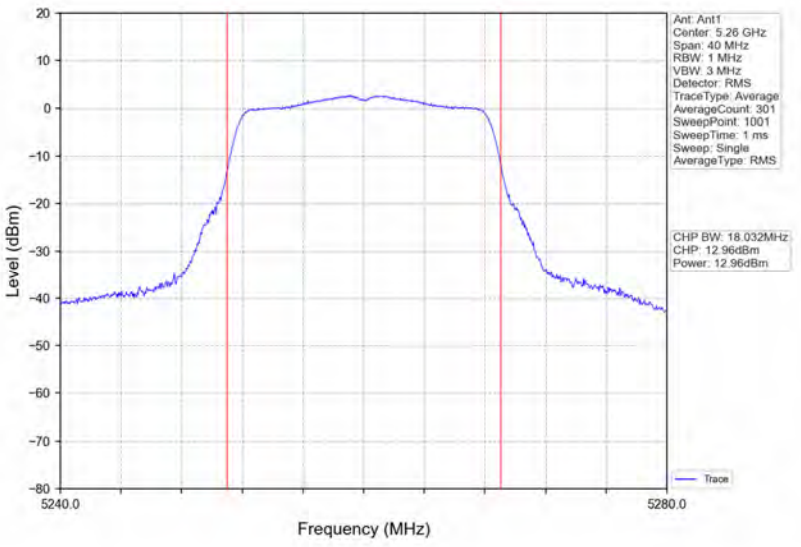
802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



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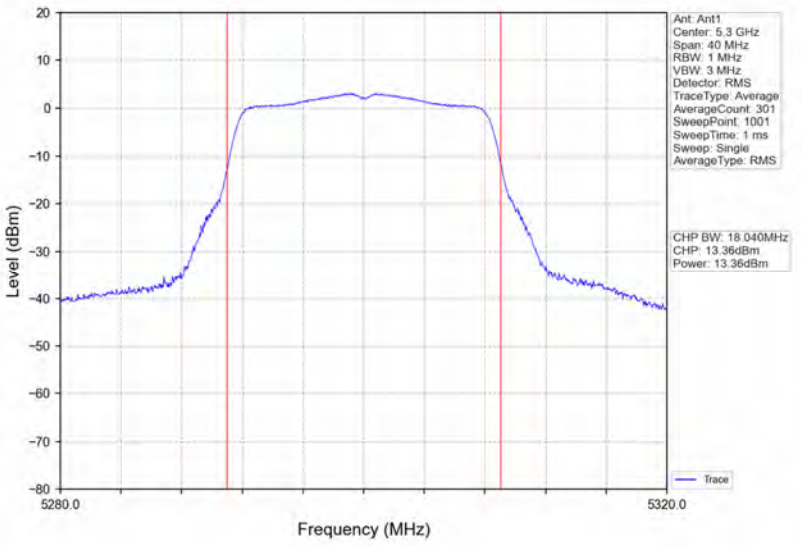
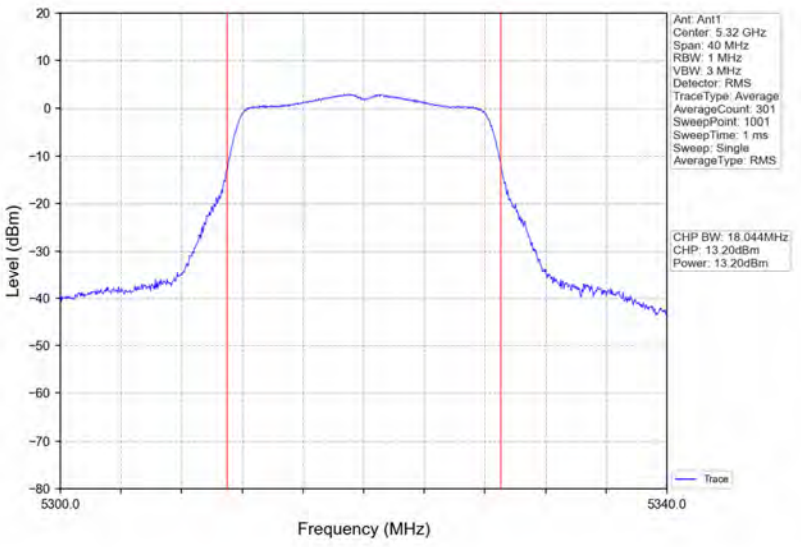
802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV



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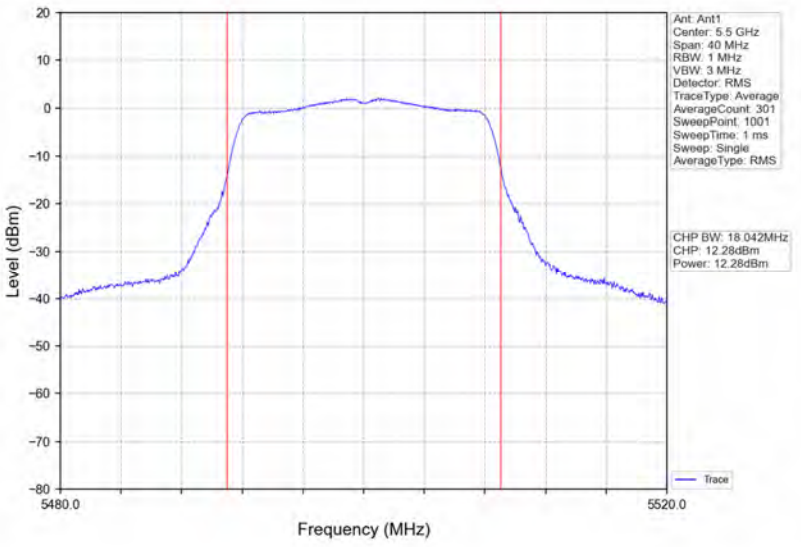
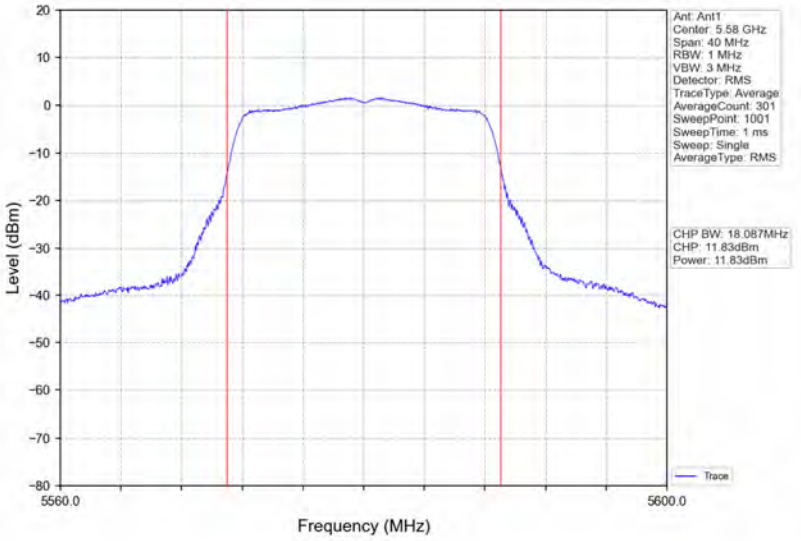


802.11a_MCH_5580MHz_Ant1_NTNV



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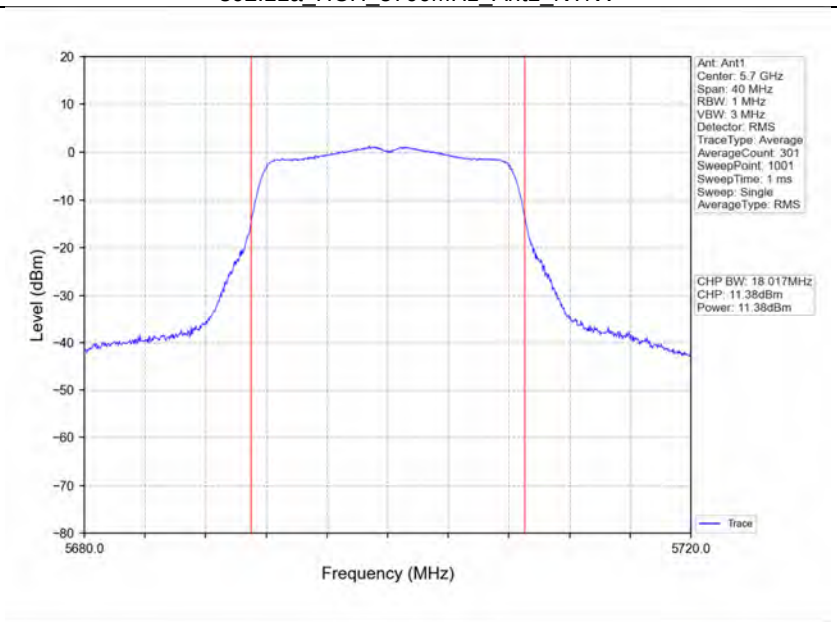
802.11a_HCH_5700MHz_Ant1_NTNV



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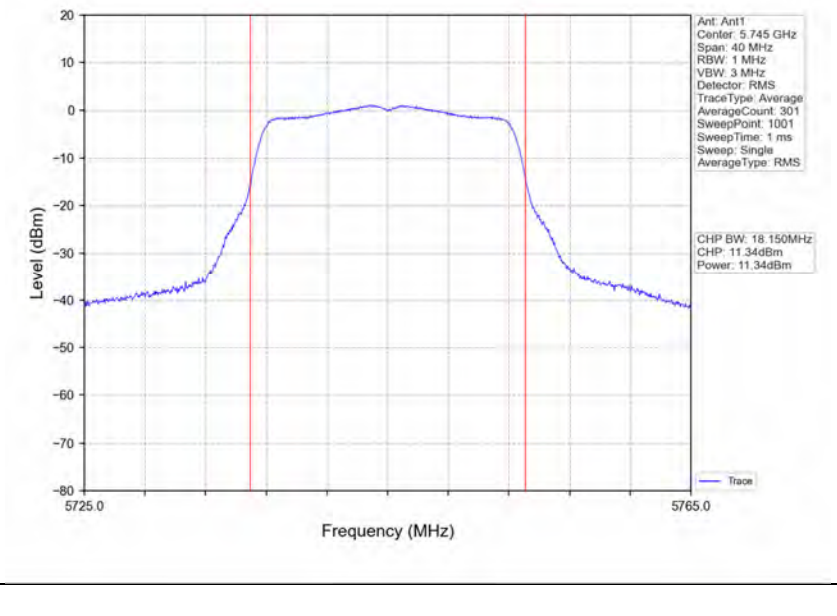

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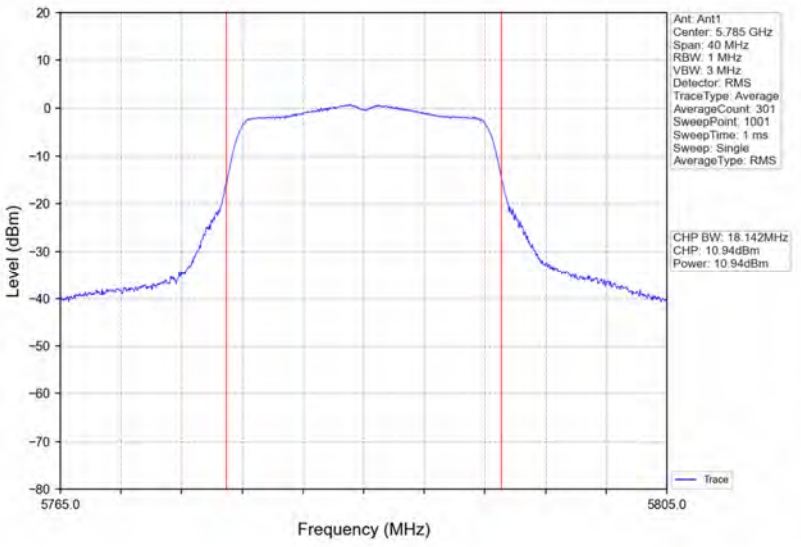
802.11a_MCH_5785MHz_Ant1_NTNV



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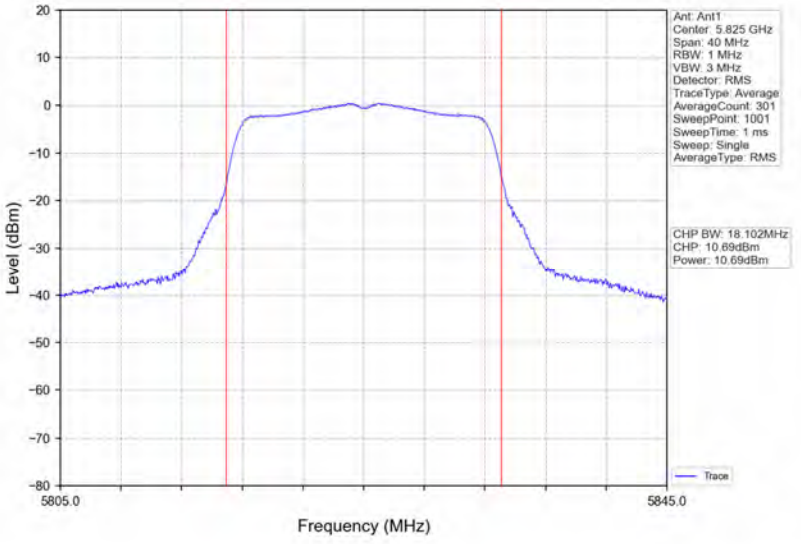

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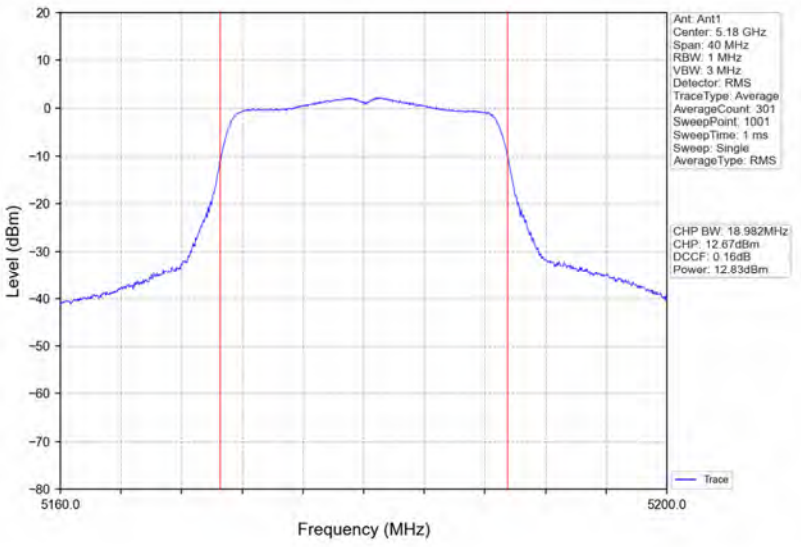
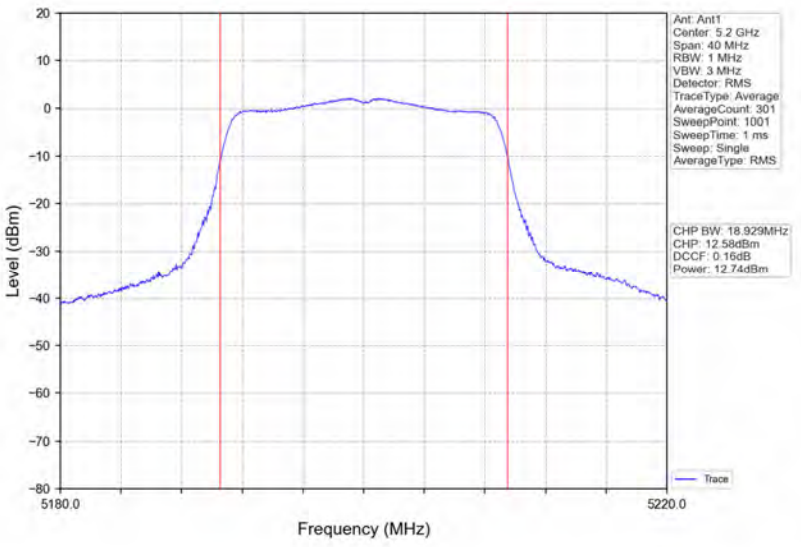
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



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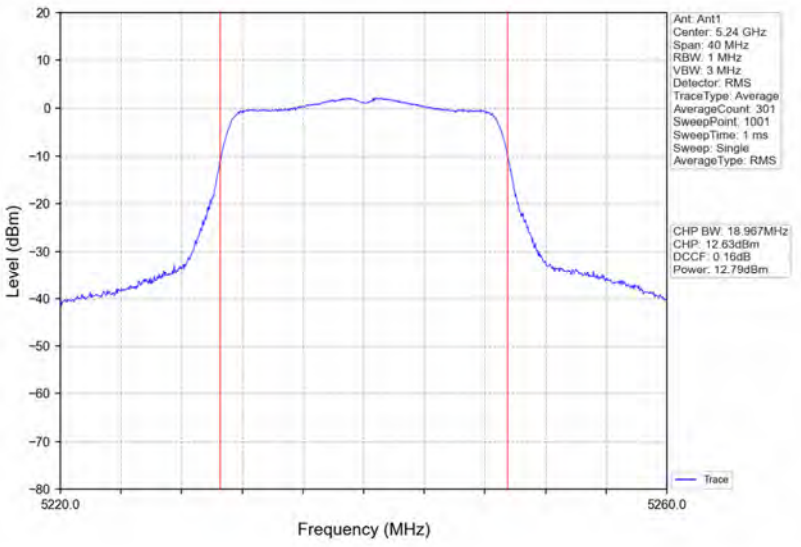
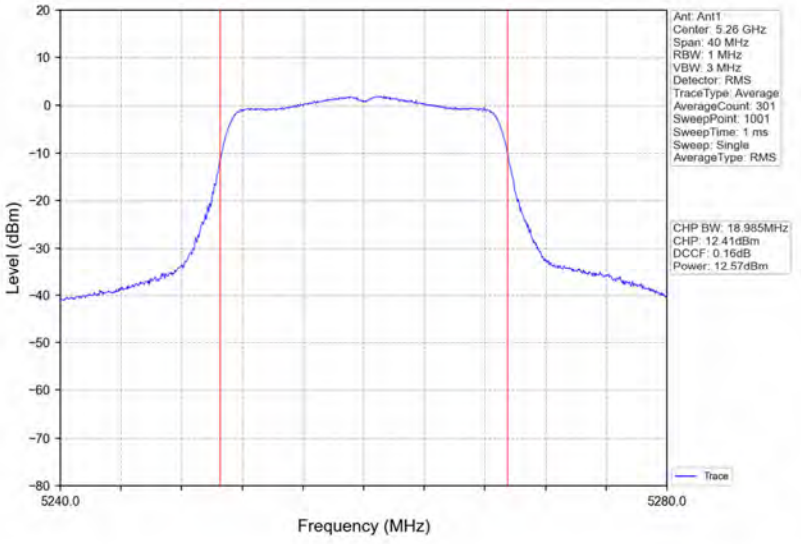
802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



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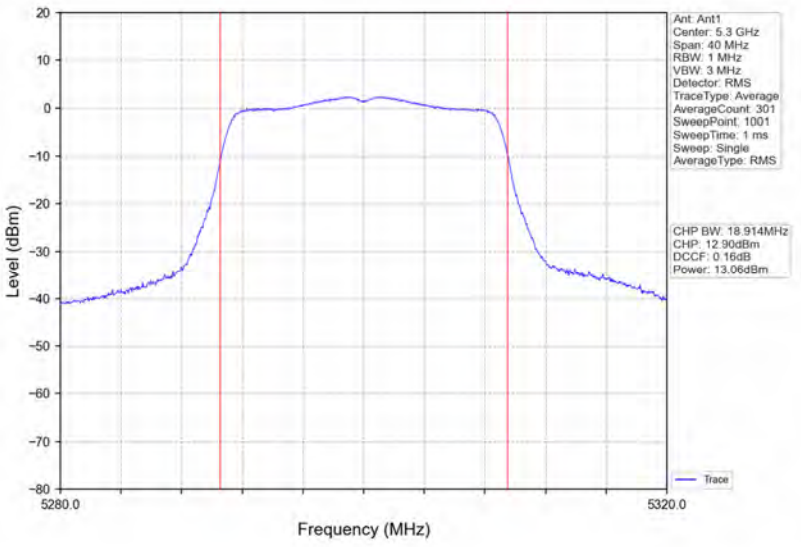
802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



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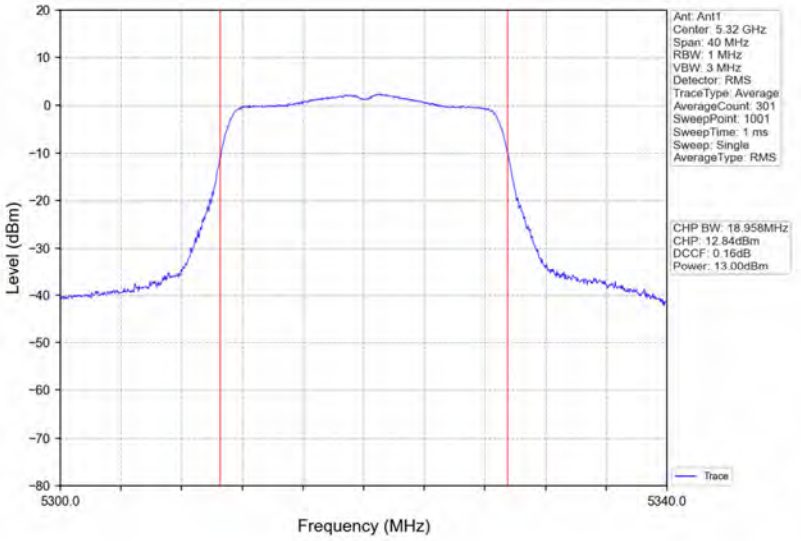

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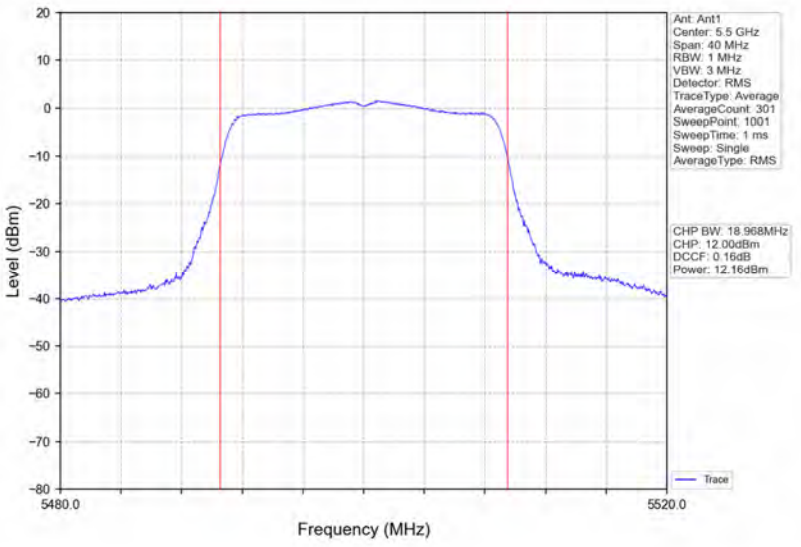
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



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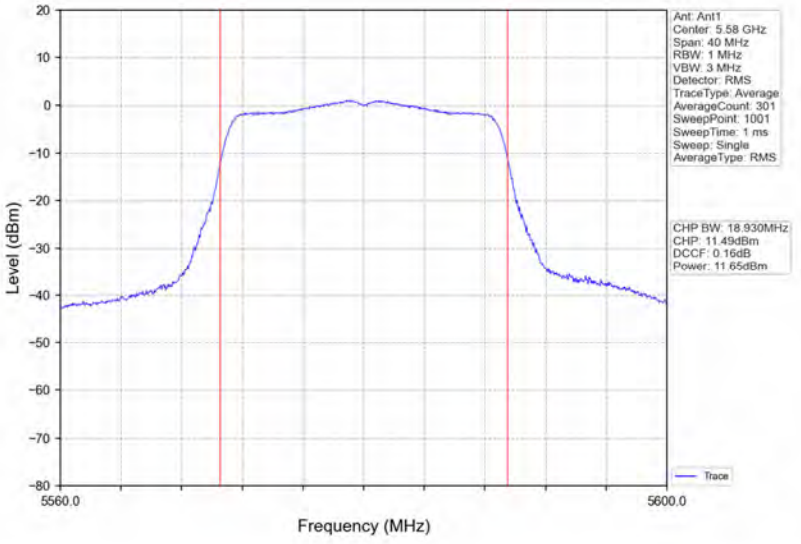

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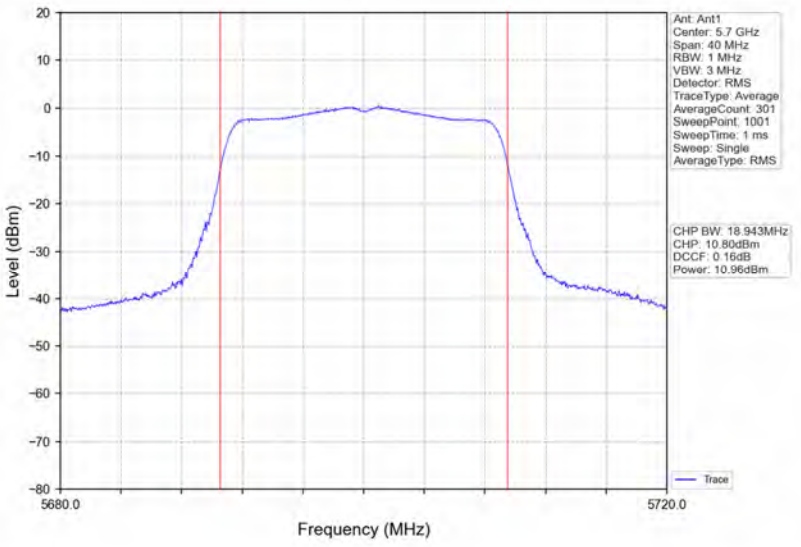
802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



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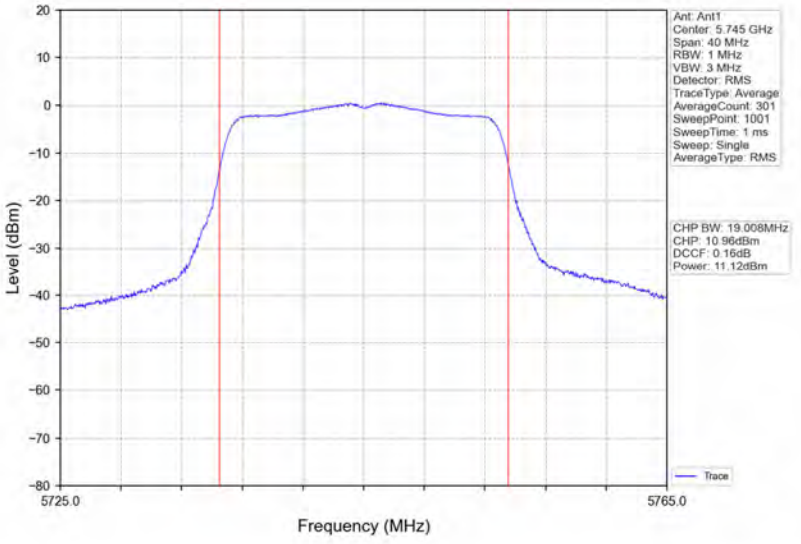

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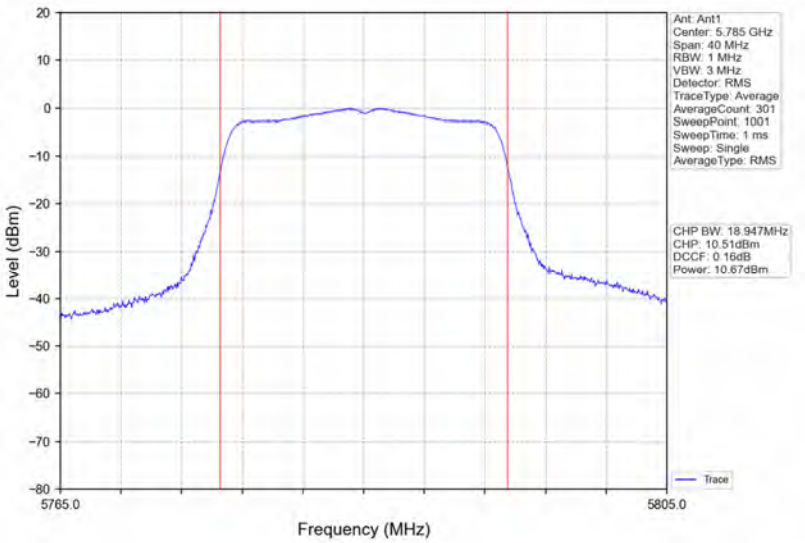
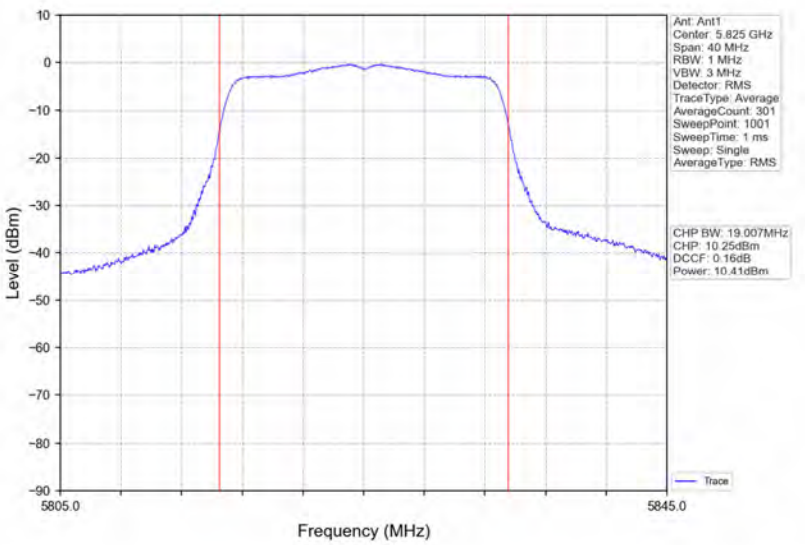
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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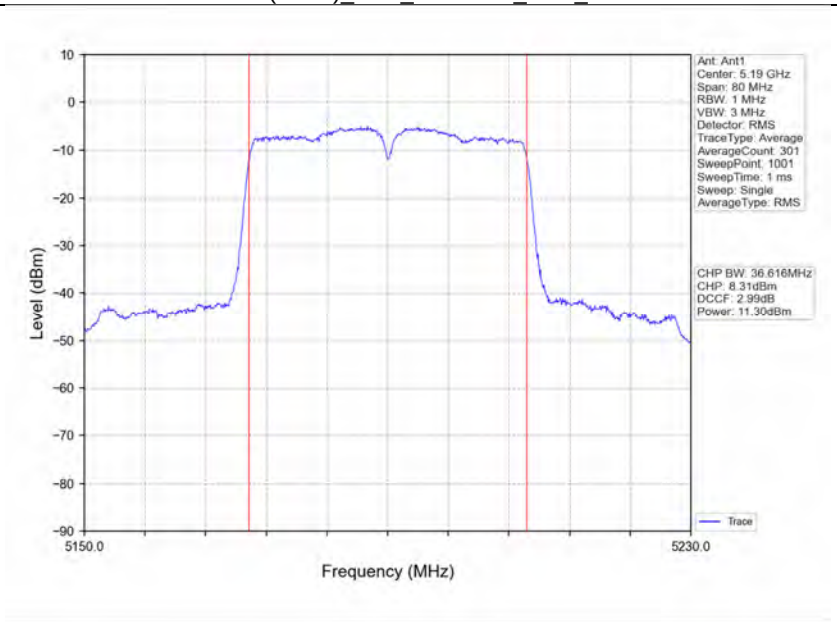
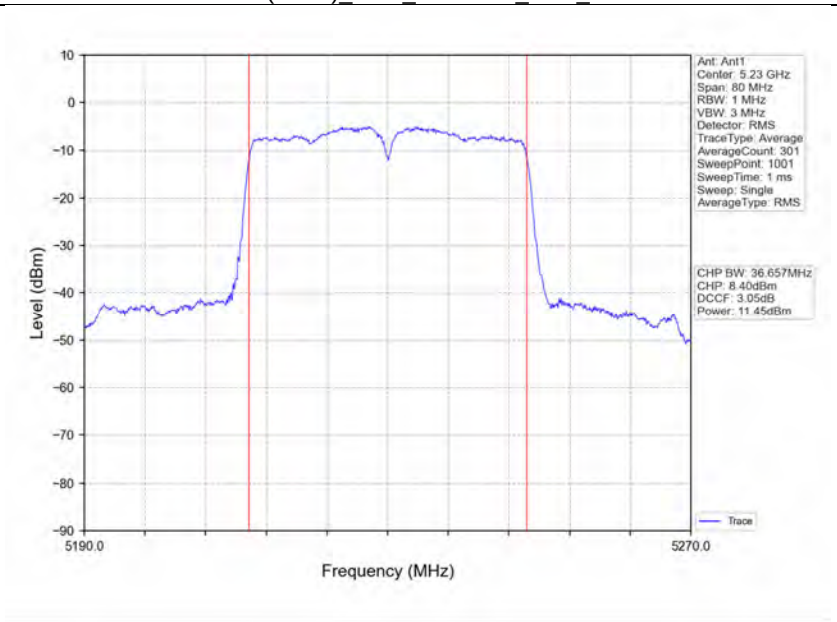
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



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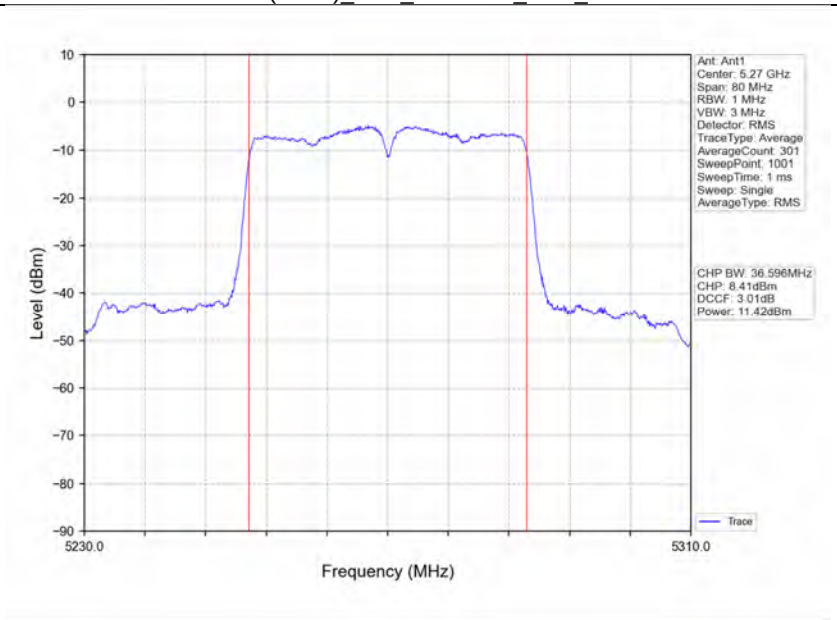
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



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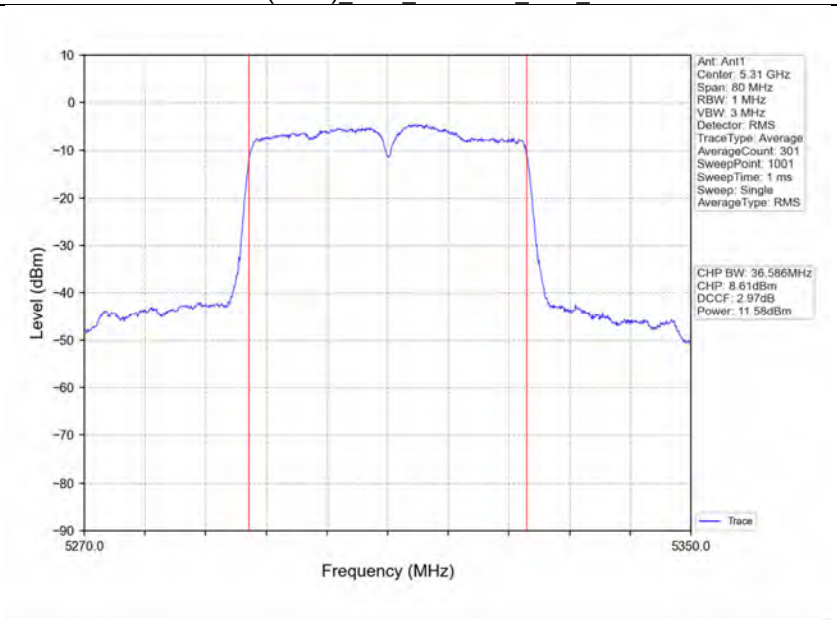

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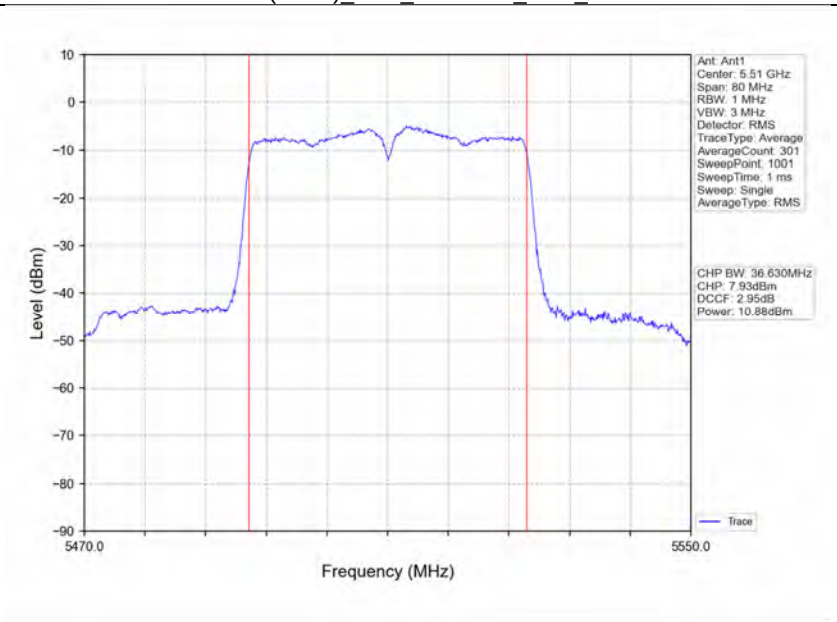
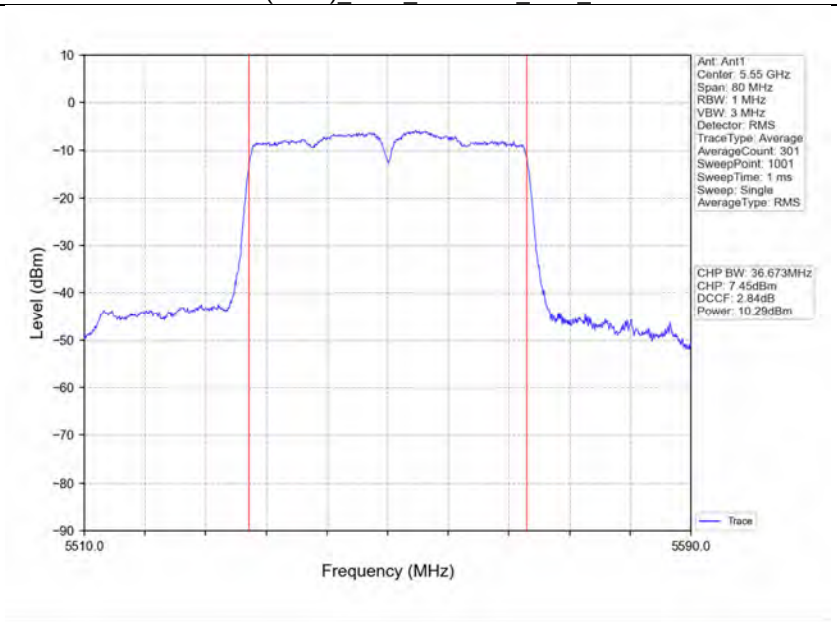
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



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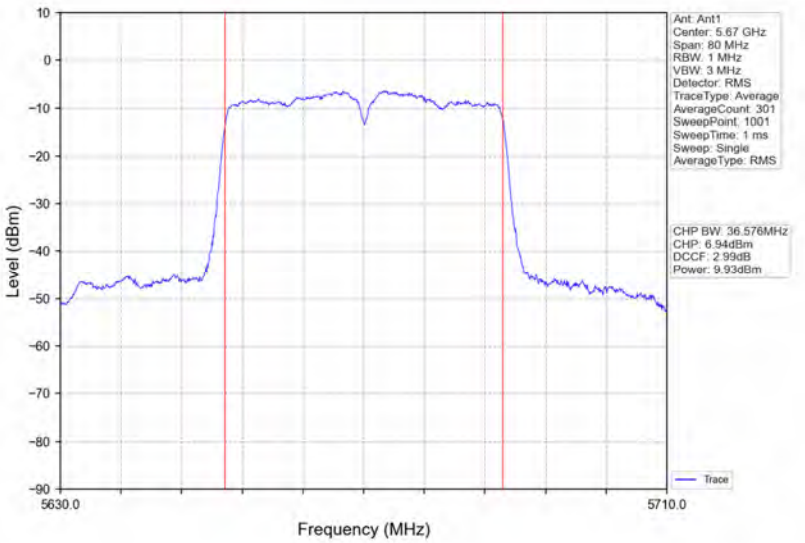
802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



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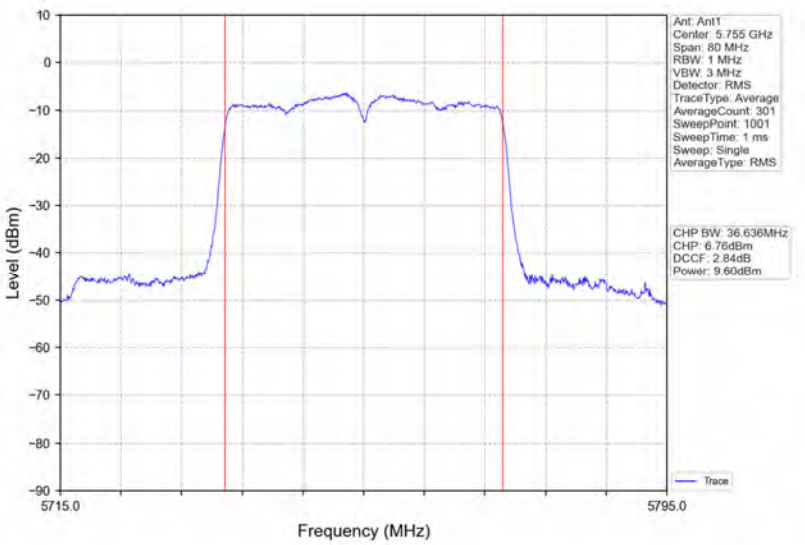

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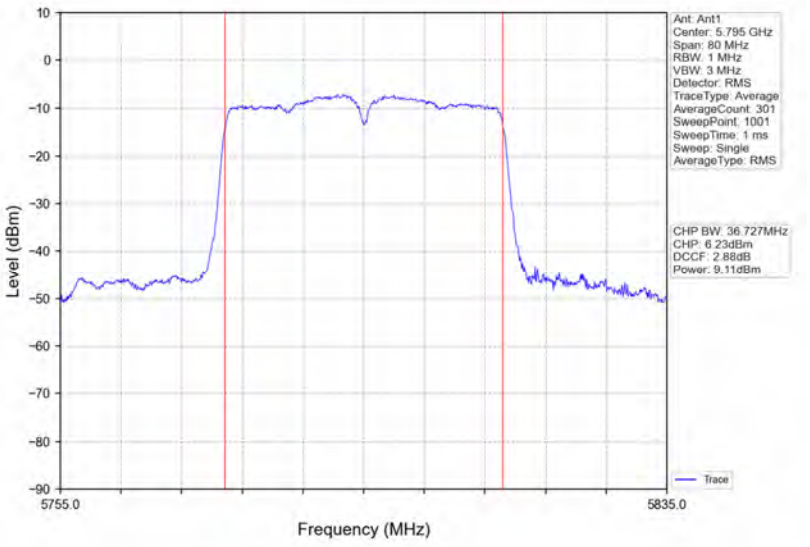
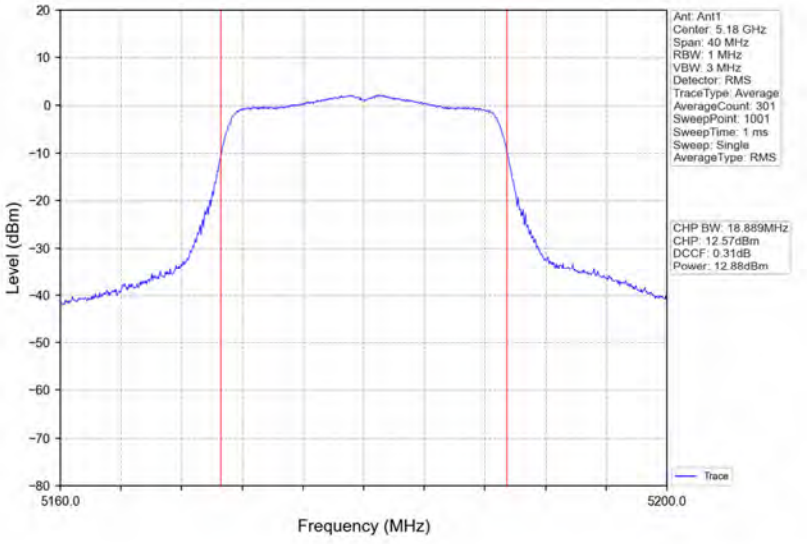
802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



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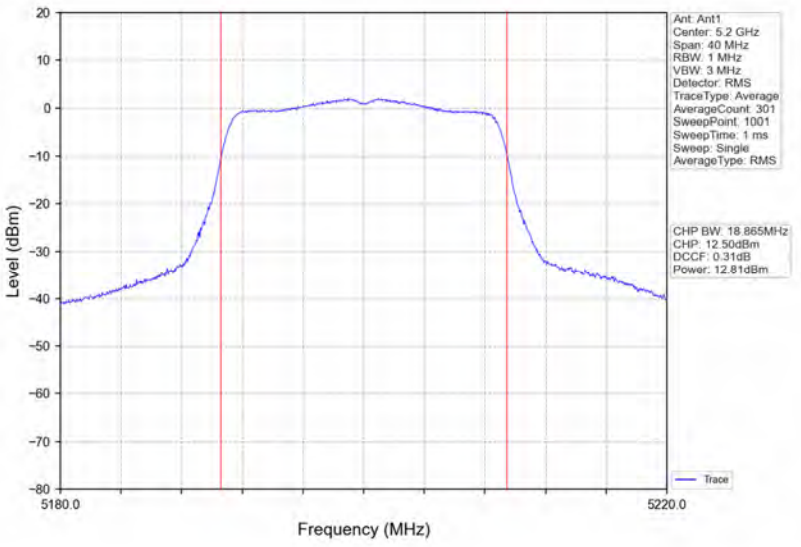
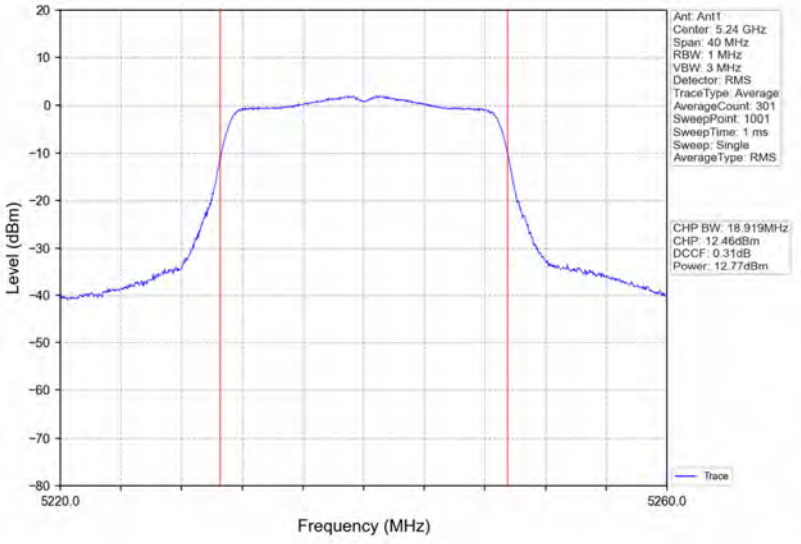
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



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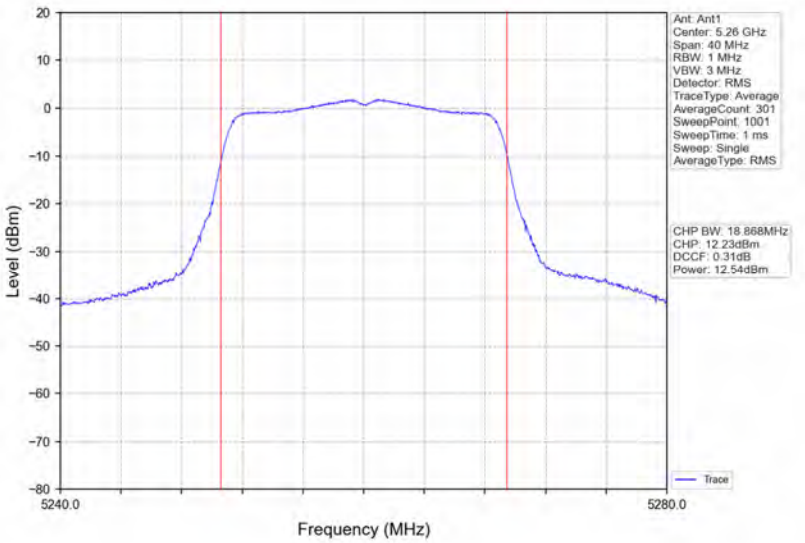
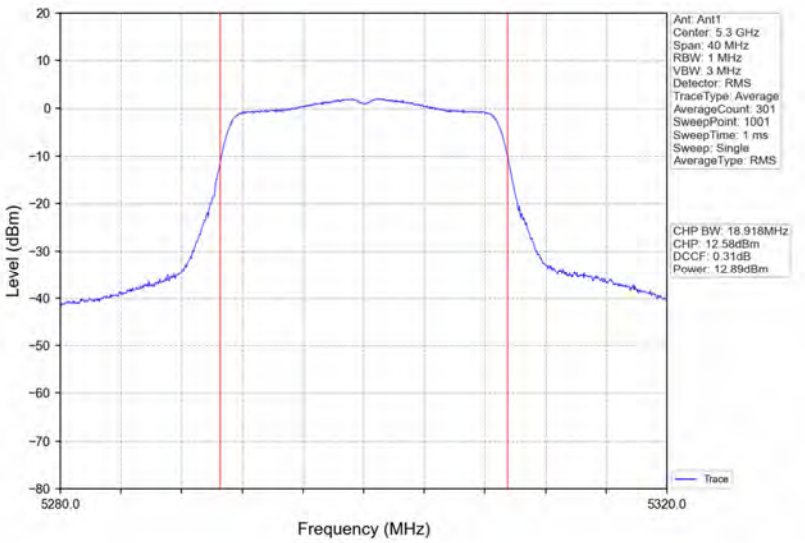
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



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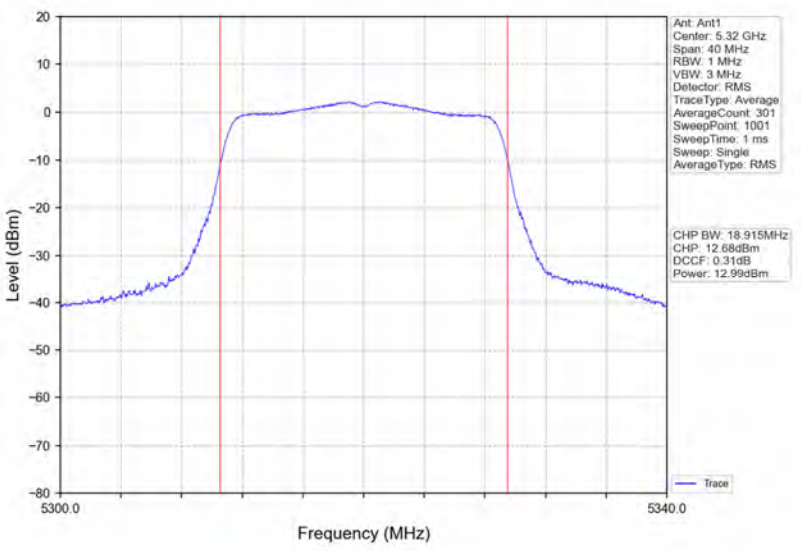
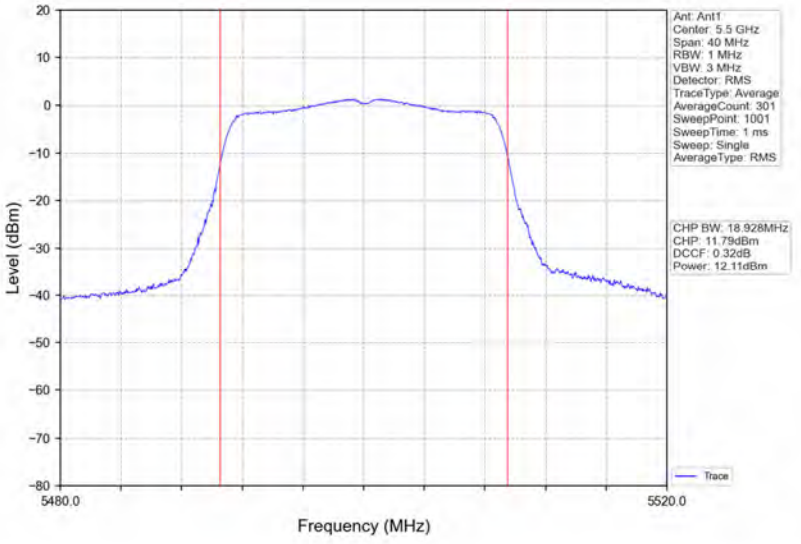
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



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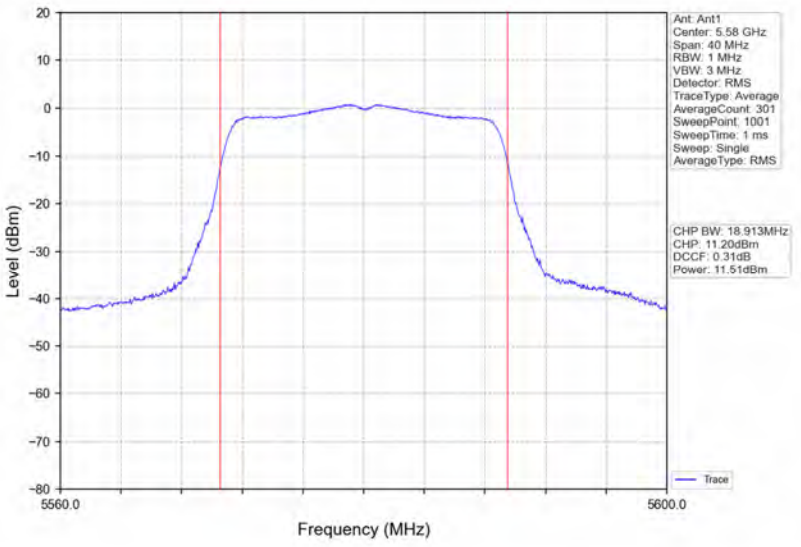
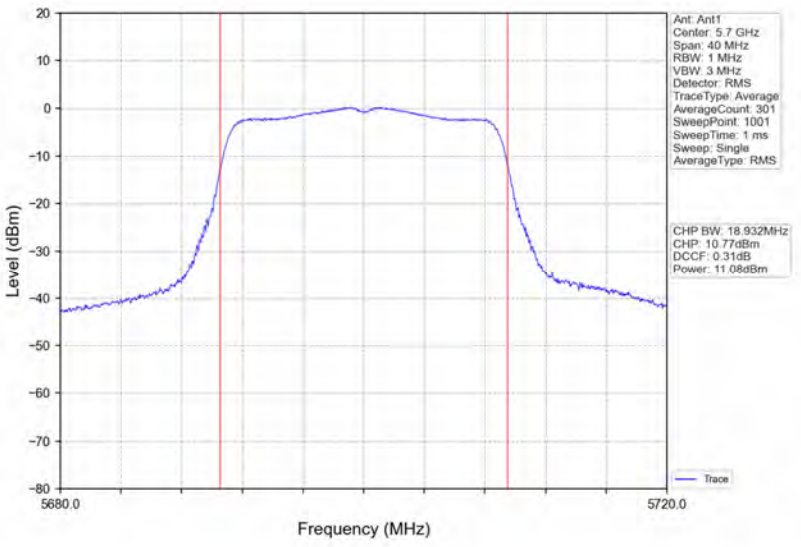
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



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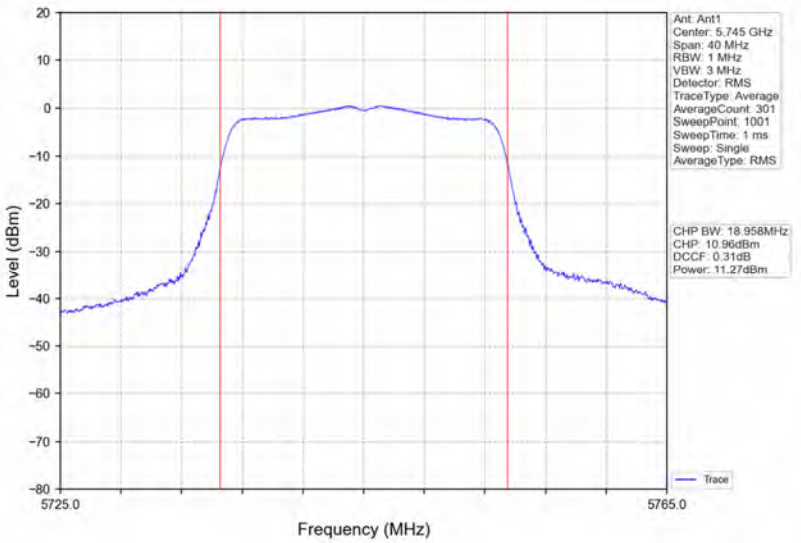
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



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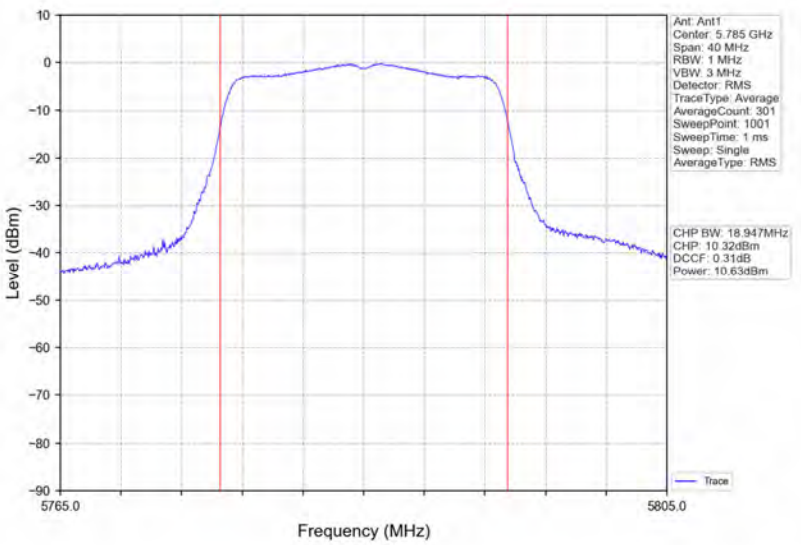

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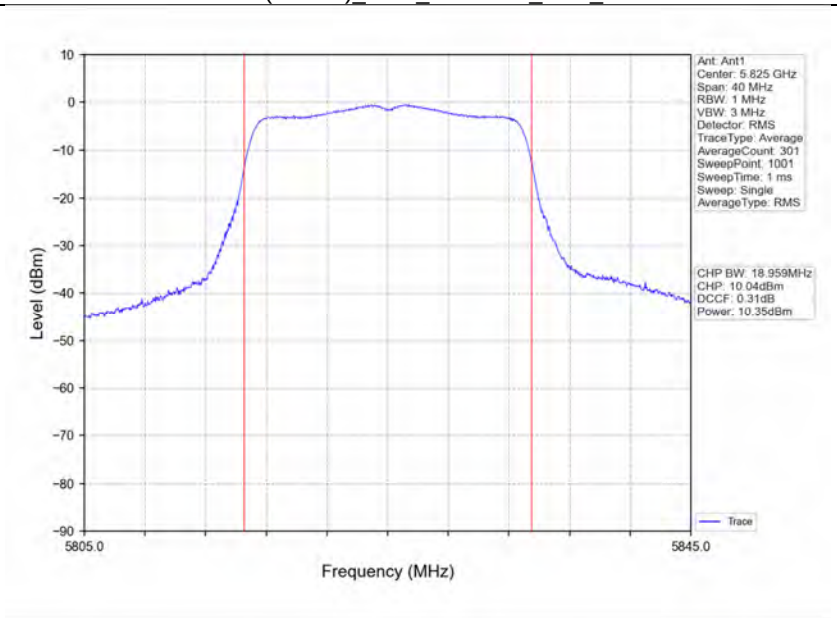
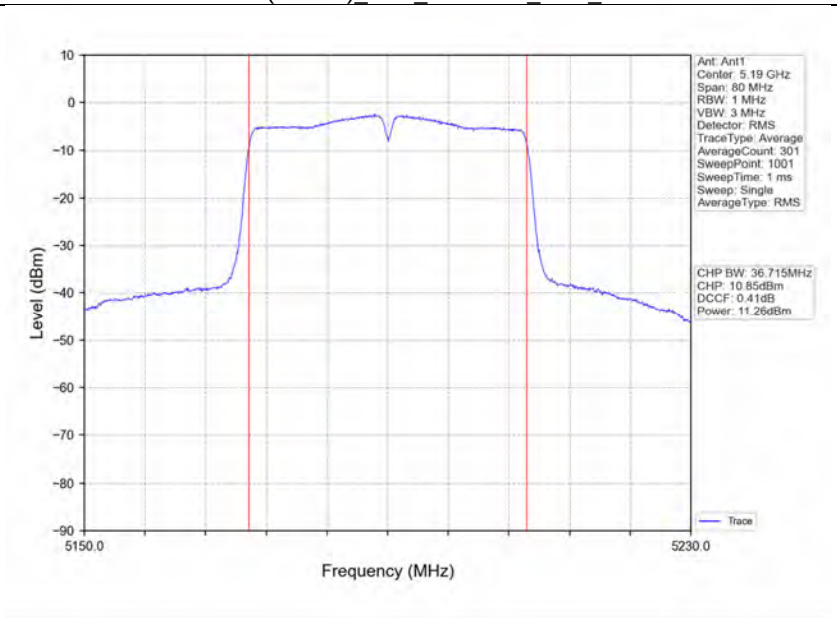
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



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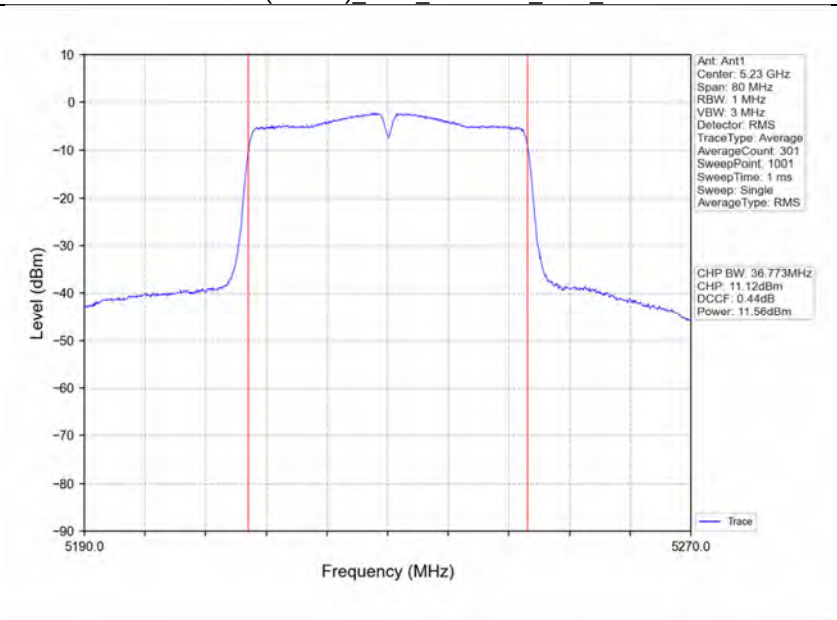
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



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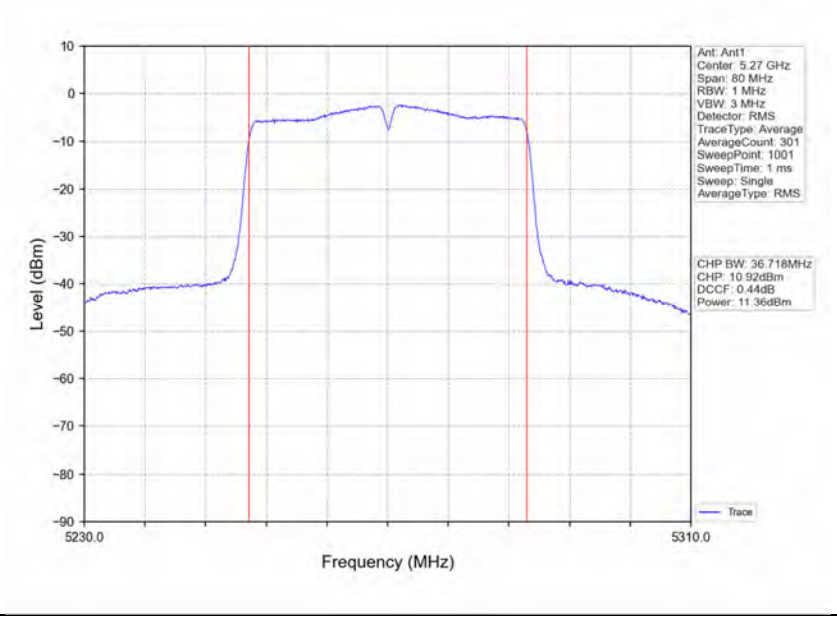

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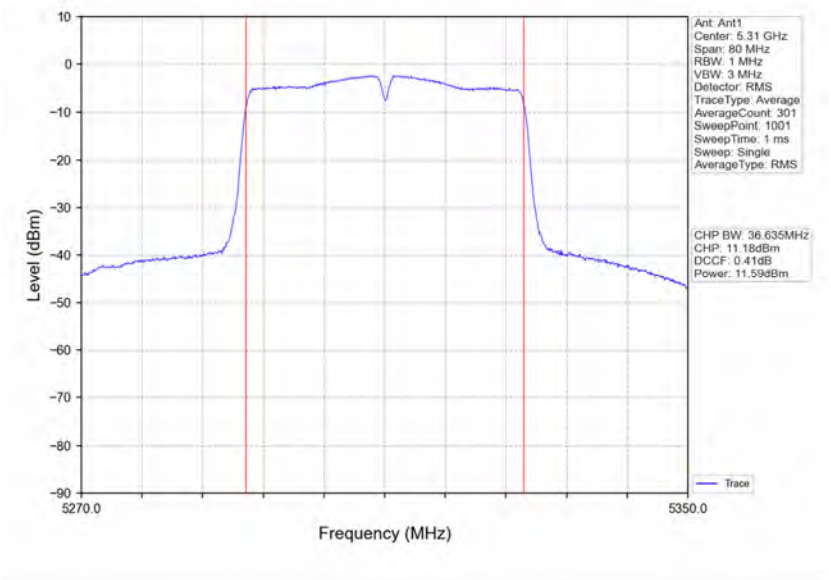
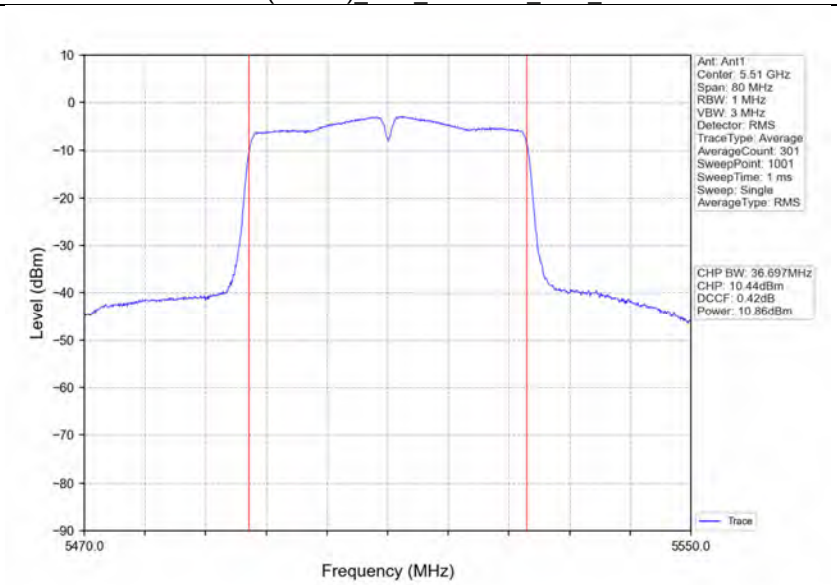
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



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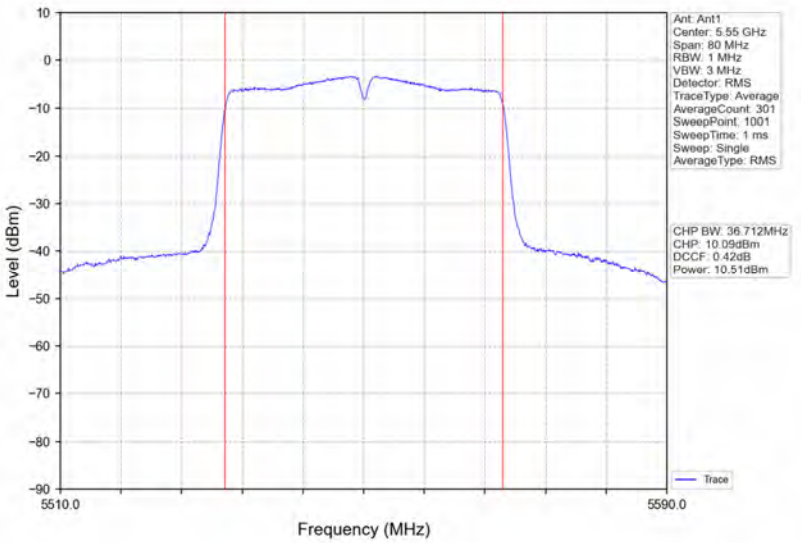
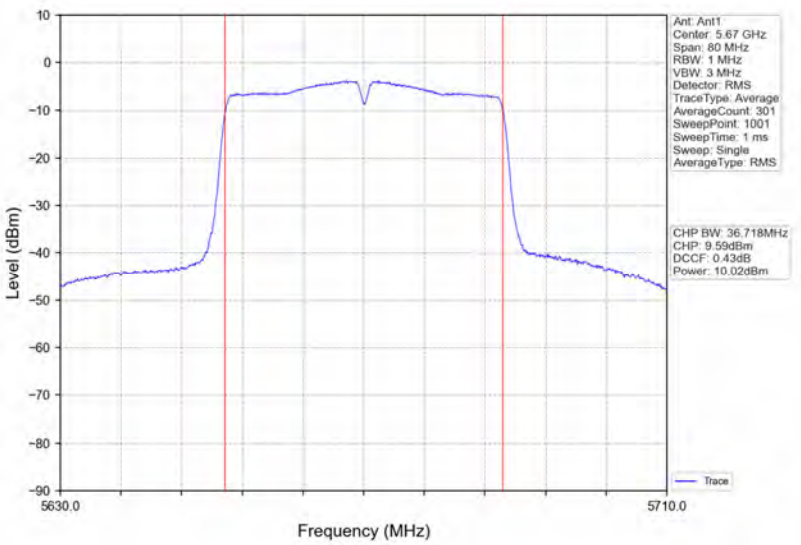
802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



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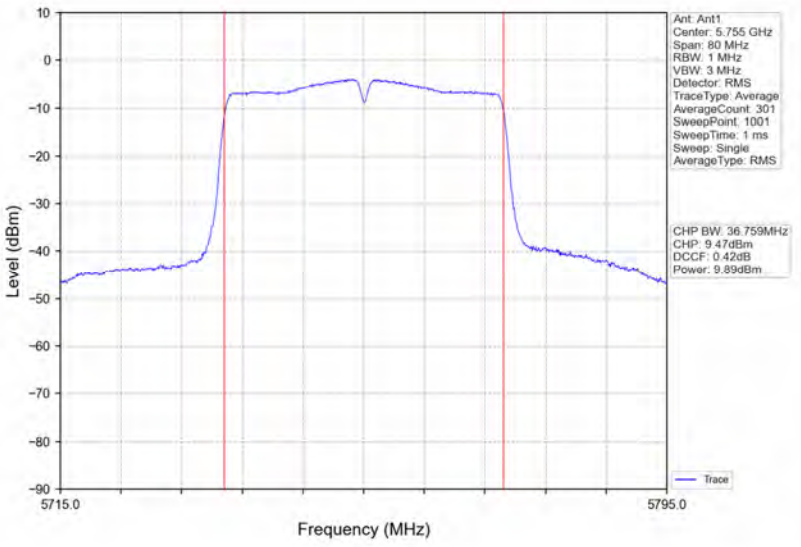
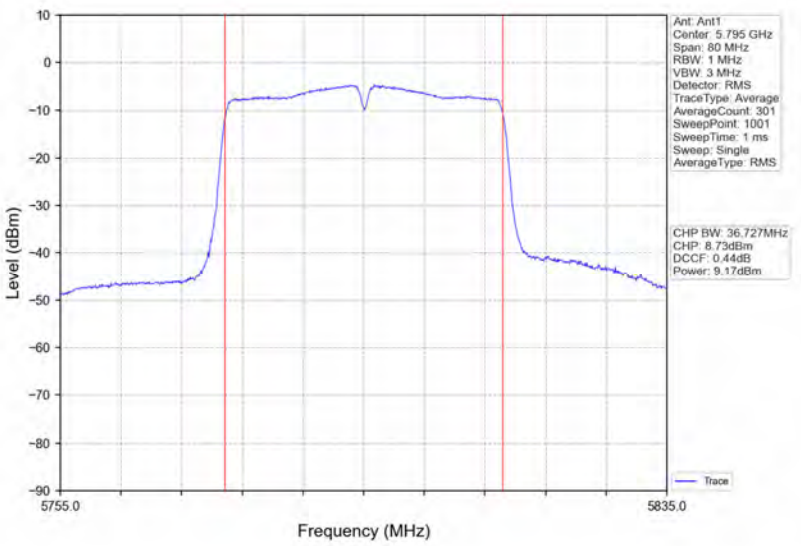
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



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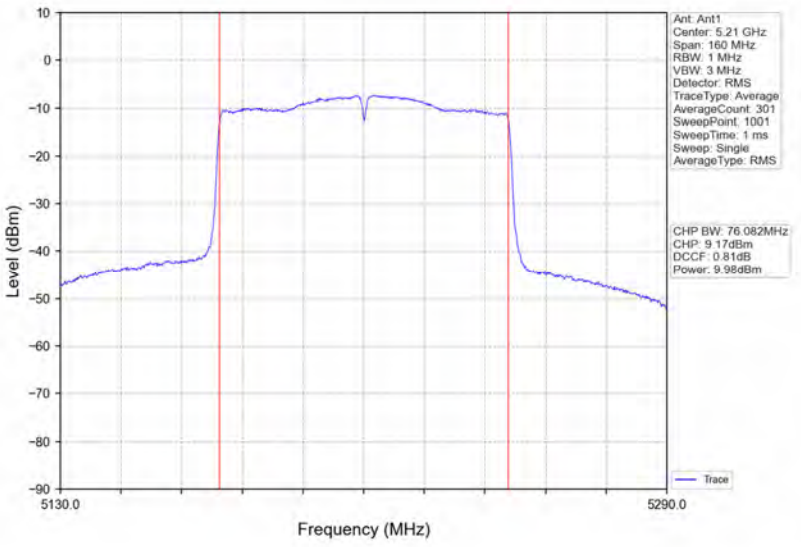
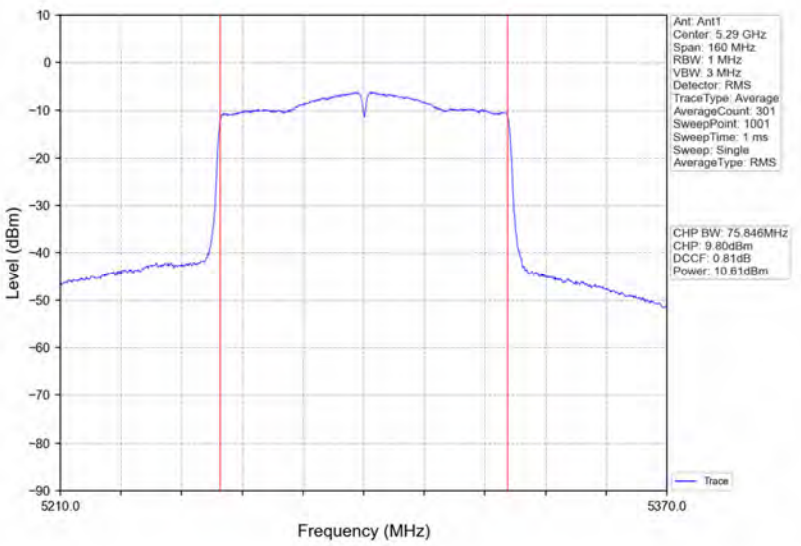
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



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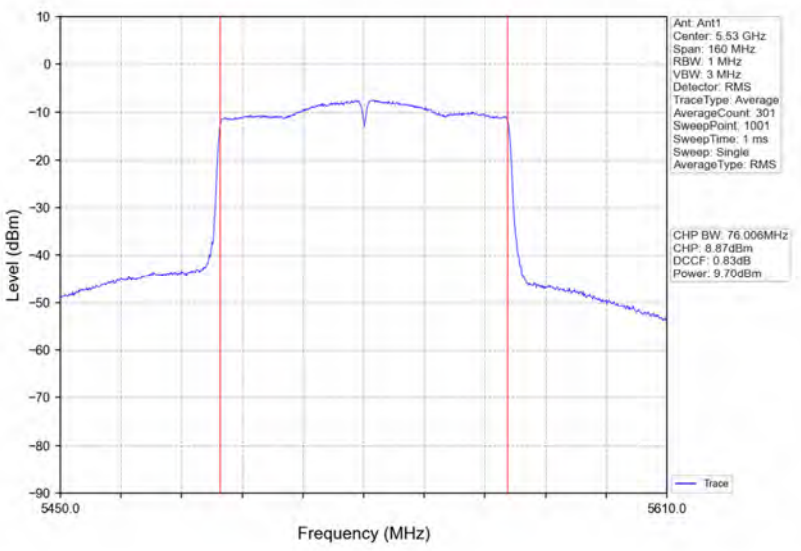
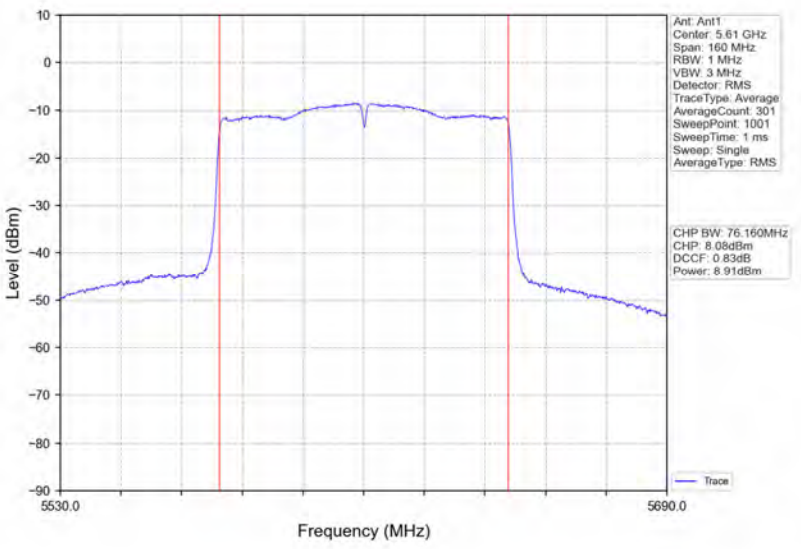
802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



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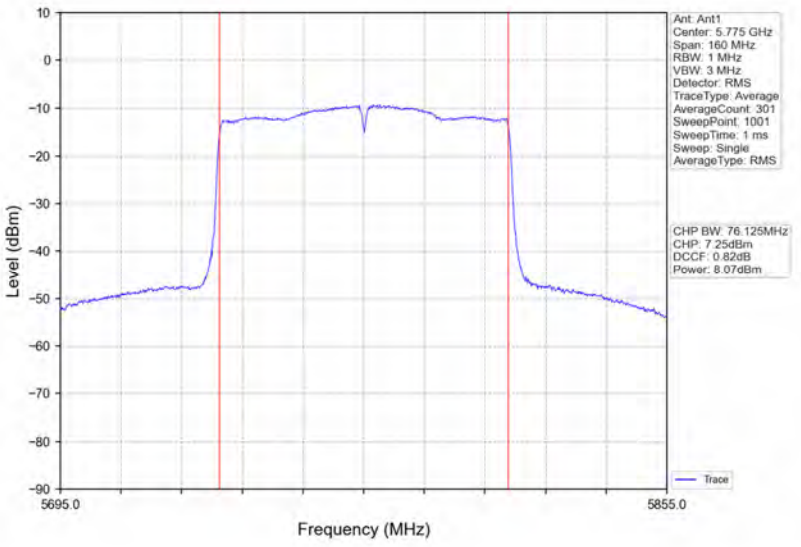
802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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4. Maximum Power Spectral Density

4.1 PSD For FCC

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	2.74	<=11	Pass
		5200	2.75	<=11	Pass
		5240	2.97	<=11	Pass
		5260	2.67	<=11	Pass
		5300	3.20	<=11	Pass
		5320	2.95	<=11	Pass
		5500	2.08	<=11	Pass
		5580	1.50	<=11	Pass
		5700	1.13	<=11	Pass
802.11n (HT20)	SISO	5180	2.29	<=11	Pass
		5200	2.29	<=11	Pass
		5240	2.20	<=11	Pass
		5260	2.13	<=11	Pass
		5300	2.64	<=11	Pass
		5320	2.44	<=11	Pass
		5500	1.59	<=11	Pass
		5580	1.20	<=11	Pass
		5700	0.40	<=11	Pass
802.11n (HT40)	SISO	5190	-2.06	<=11	Pass
		5230	-1.74	<=11	Pass
		5270	-1.69	<=11	Pass
		5310	-1.39	<=11	Pass
		5510	-2.15	<=11	Pass
		5550	-3.25	<=11	Pass
		5670	-3.42	<=11	Pass
802.11ac (VHT20)	SISO	5180	2.50	<=11	Pass
		5200	2.26	<=11	Pass
		5240	2.25	<=11	Pass
		5260	1.91	<=11	Pass
		5300	2.52	<=11	Pass
		5320	2.42	<=11	Pass
		5500	1.64	<=11	Pass
		5580	1.08	<=11	Pass
		5700	0.55	<=11	Pass
802.11ac (VHT40)	SISO	5190	-2.21	<=11	Pass
		5230	-1.95	<=11	Pass
		5270	-2.08	<=11	Pass
		5310	-1.59	<=11	Pass
		5510	-2.57	<=11	Pass
		5550	-2.85	<=11	Pass
		5670	-3.41	<=11	Pass

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802.11ac (VHT80)	SISO	5210	-6.35	<=11	Pass
		5290	-5.37	<=11	Pass
		5530	-6.64	<=11	Pass
		5610	-7.86	<=11	Pass
Note1: Antenna Gain: 5150-5250MHz: -0.4dBi, 5250-5350MHz: 1.55dBi, 5470-5725MHz: 2.54dBi, 5725-5850MHz: 1.92dBi					

4.2 E.I.R.PSD

4.2.1Test Result

Mode	TX Type	Frequency (MHz)	Maximum E.I.R.PSD (dBm/MHz)		Verdict
			ANT1	Limit	
802.11a	SISO	5180	2.34	<=10	Pass
		5200	2.35	<=10	Pass
		5240	2.57	<=10	Pass
802.11n (HT20)	SISO	5180	1.89	<=10	Pass
		5200	1.89	<=10	Pass
		5240	1.80	<=10	Pass
802.11n (HT40)	SISO	5190	-2.46	<=10	Pass
		5230	-2.14	<=10	Pass
802.11ac (VHT20)	SISO	5180	2.10	<=10	Pass
		5200	1.86	<=10	Pass
		5240	1.85	<=10	Pass
802.11ac (VHT40)	SISO	5190	-2.61	<=10	Pass
		5230	-2.35	<=10	Pass
802.11ac (VHT80)	SISO	5210	-6.75	<=10	Pass
Note1: Antenna Gain: 5150-5250MHz: -0.4dBi, 5250-5350MHz: 1.55dBi, 5470-5725MHz: 2.54dBi, 5725-5850MHz: 1.92dBi Note: E.I.R.PSD = Measured PSD + Antenna Gain					

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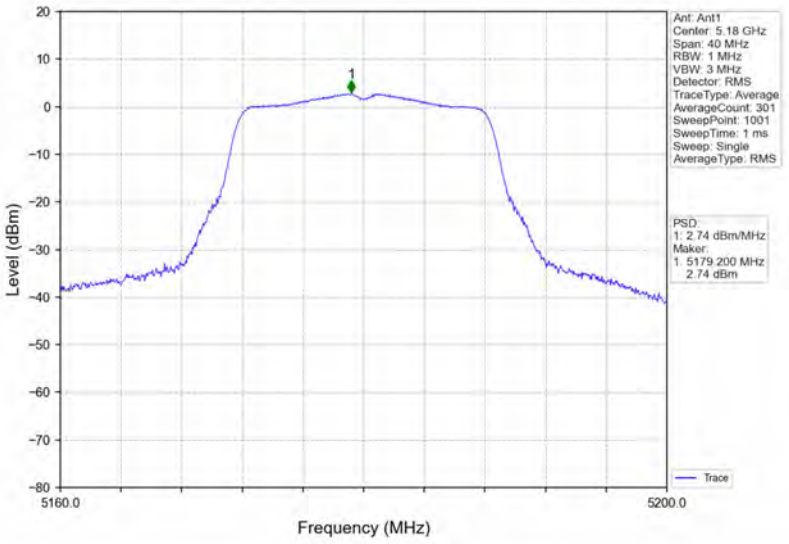
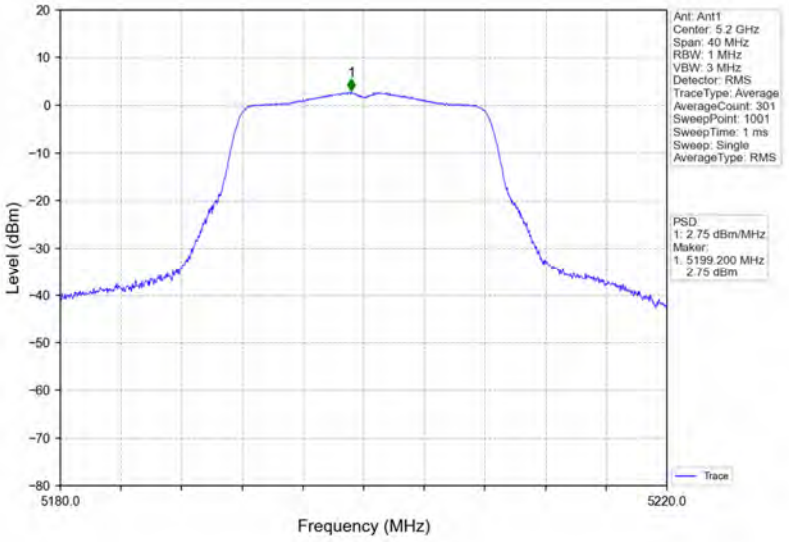
4.2.2 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant1_NTNV



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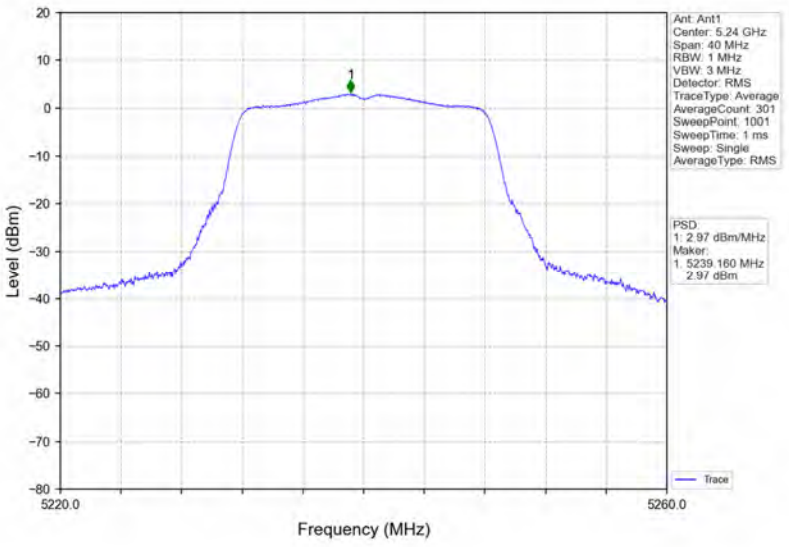
802.11a_HCH_5240MHz_Ant1_NTNV



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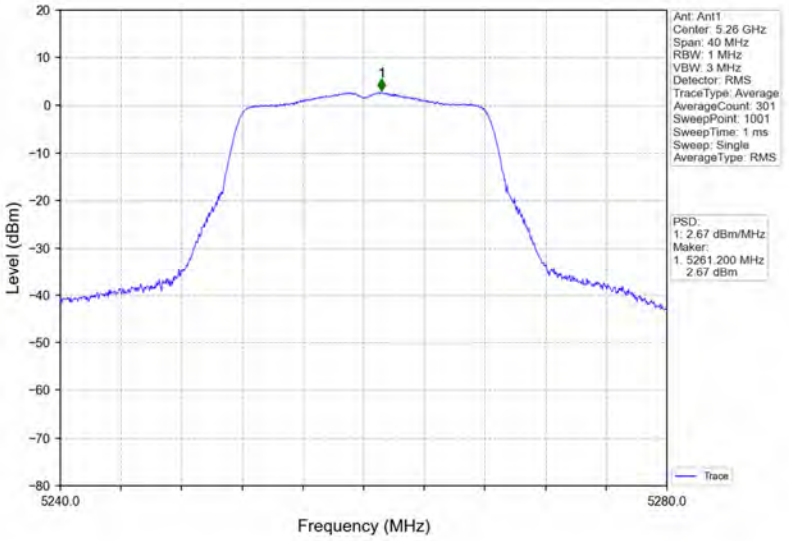

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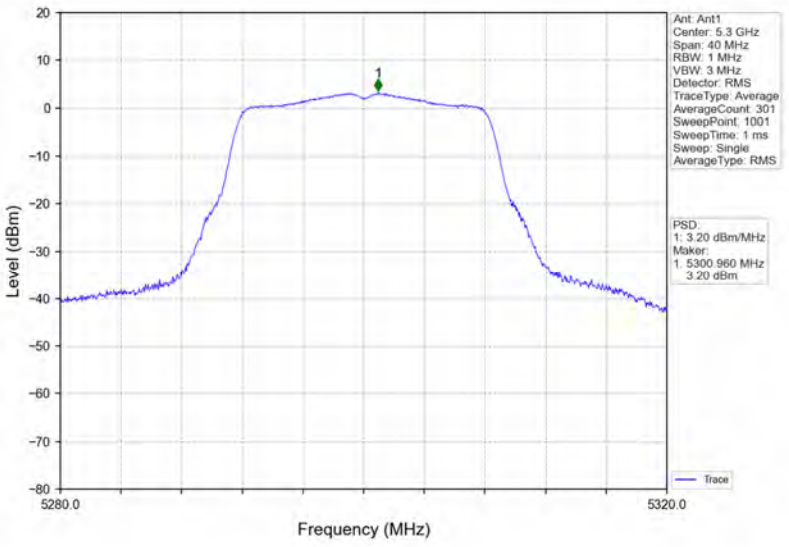
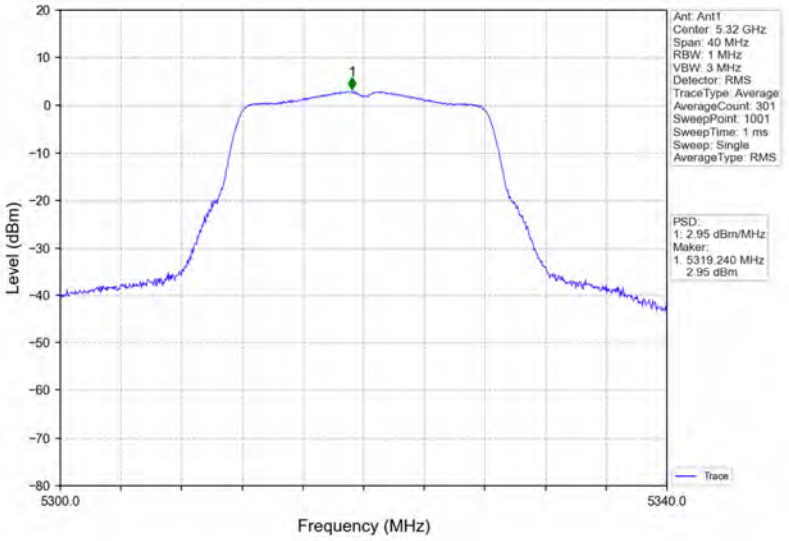
802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV



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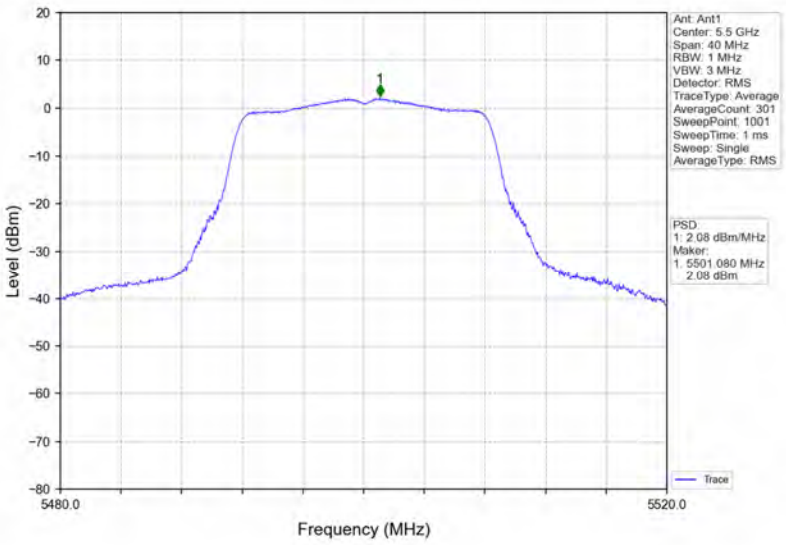
802.11a_LCH_5500MHz_Ant1_NTNV



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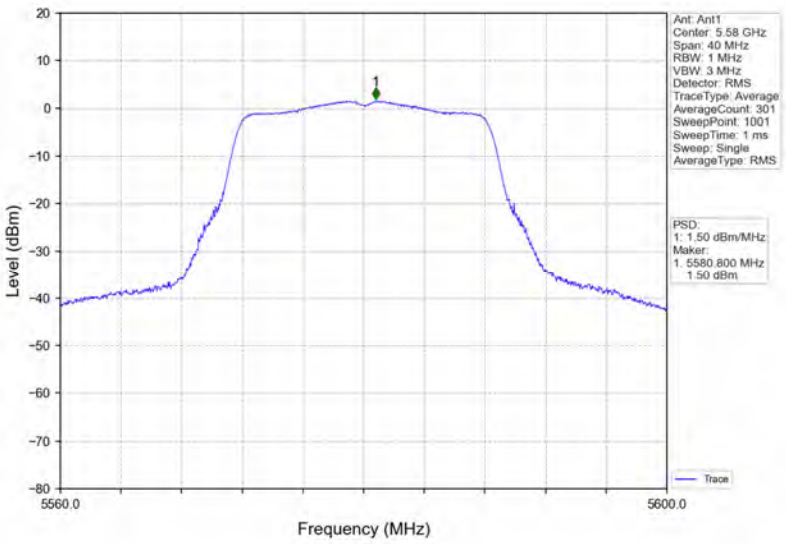

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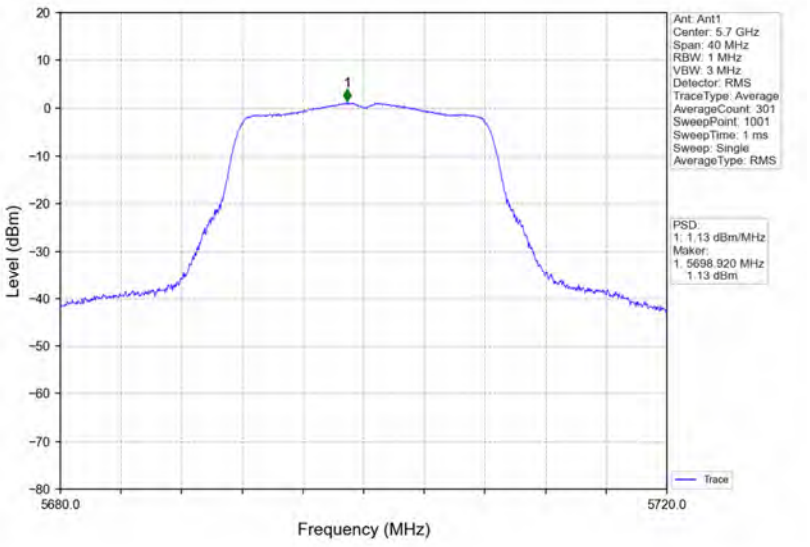
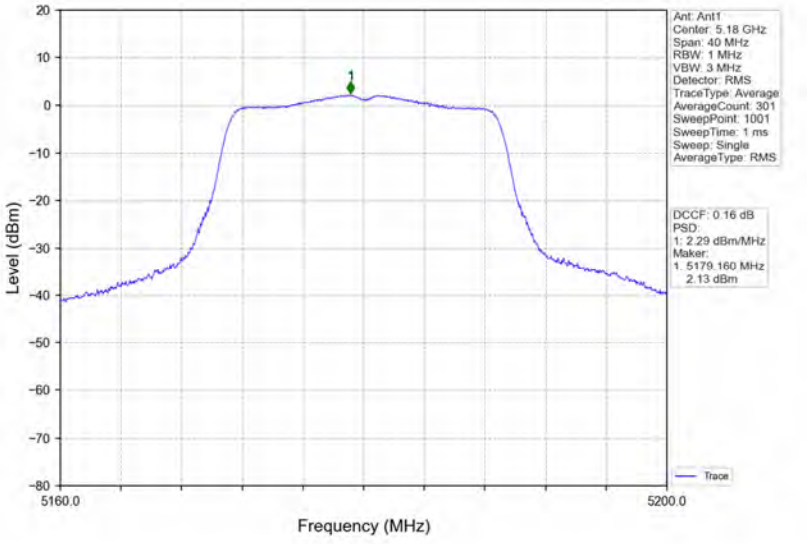
802.11a_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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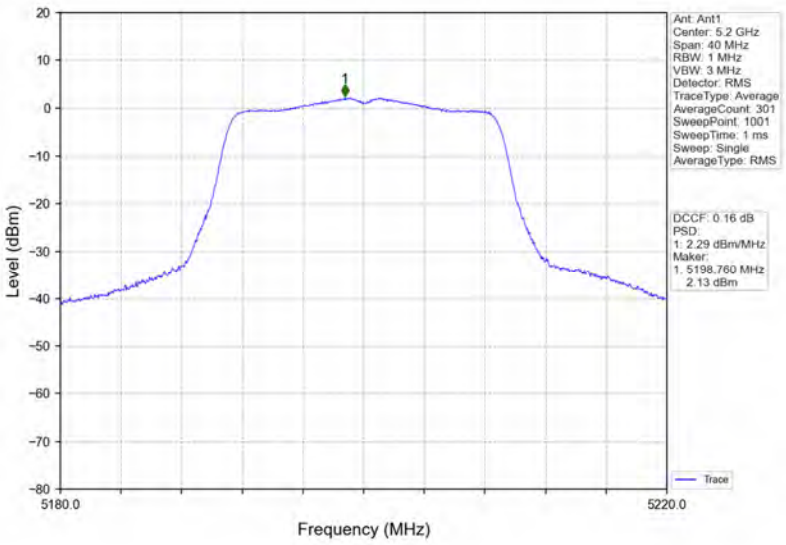
802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



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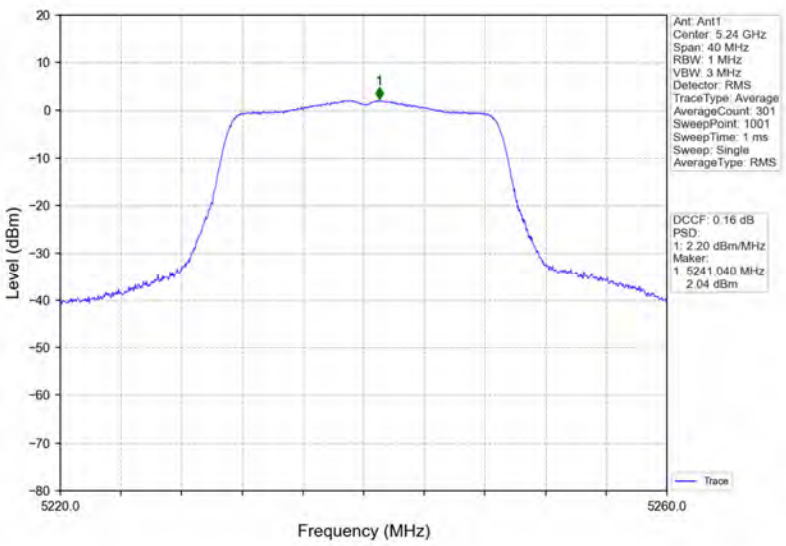

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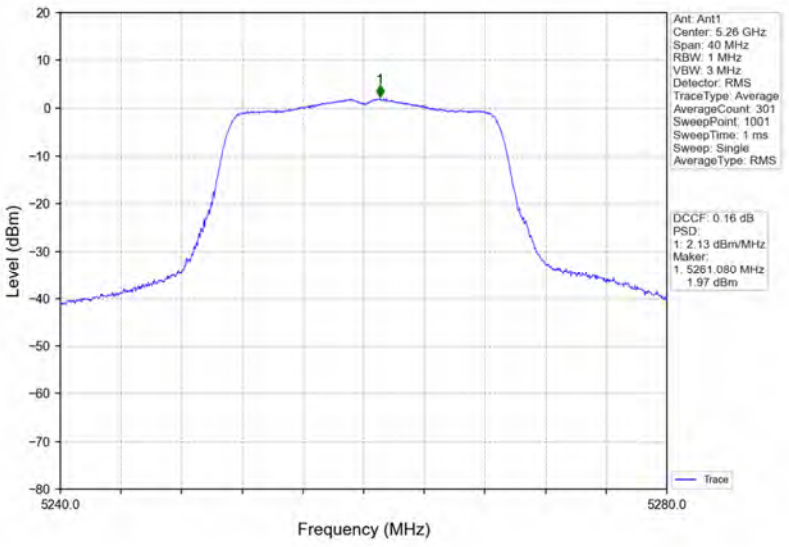
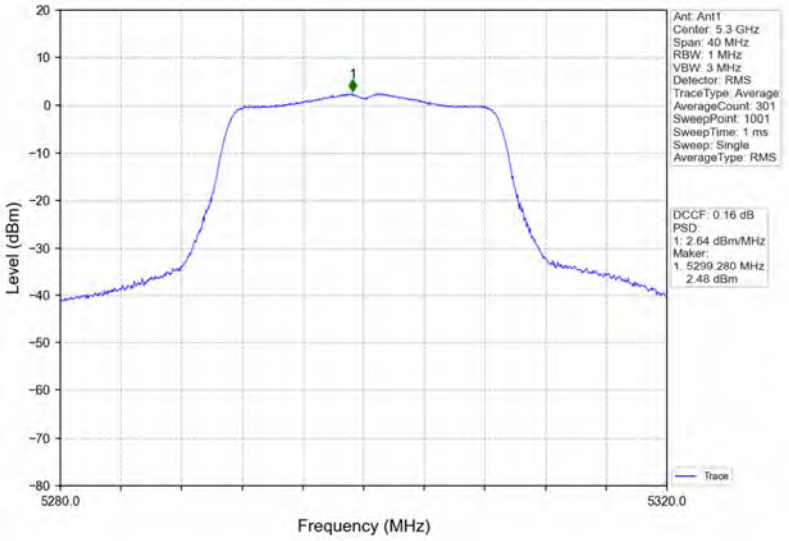
802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



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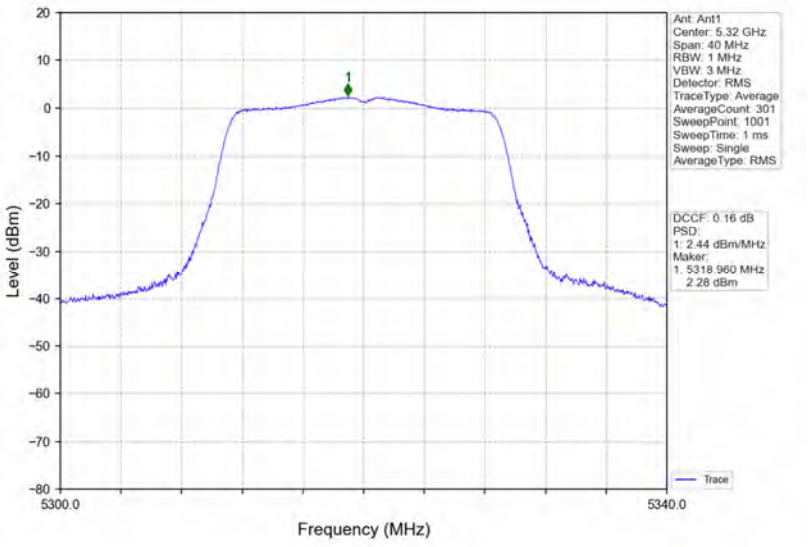
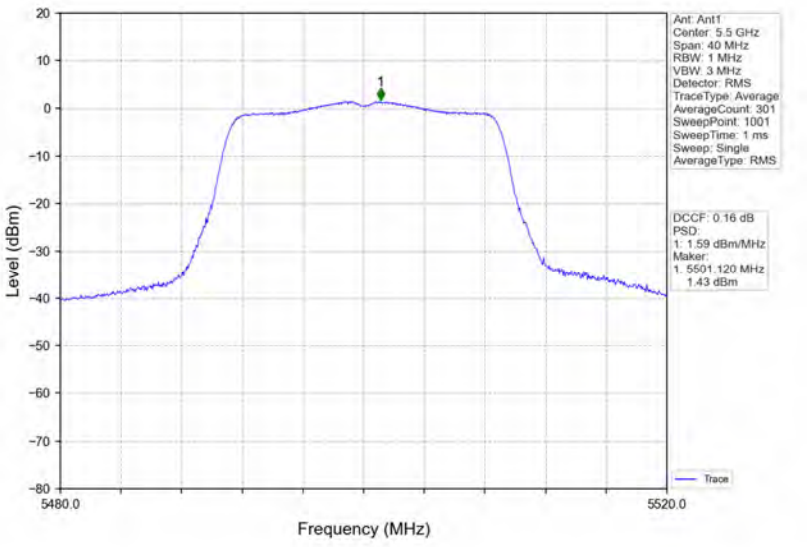
802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



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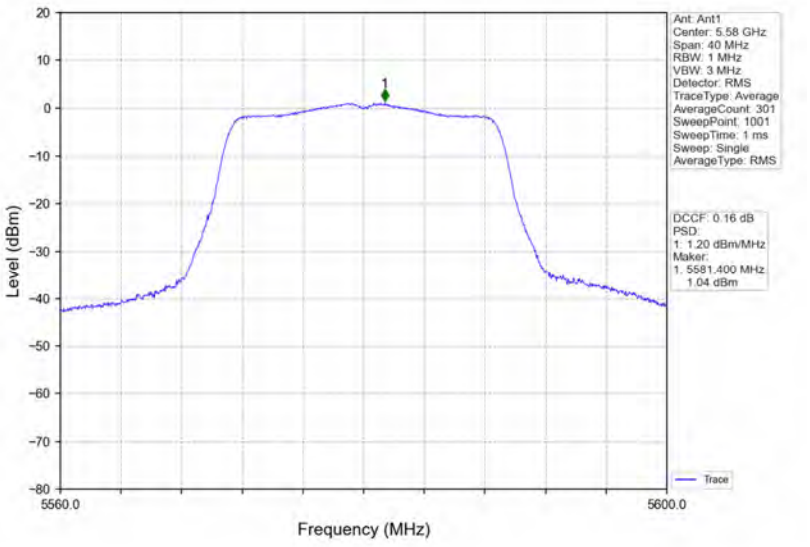
802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



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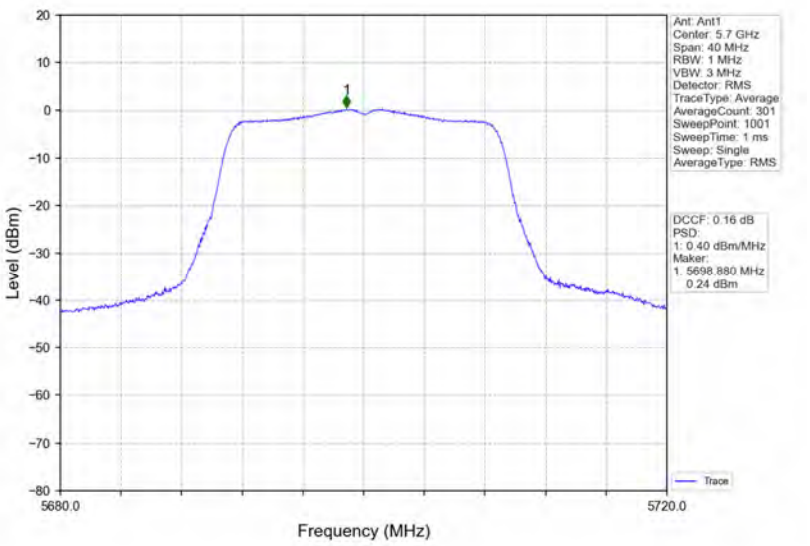

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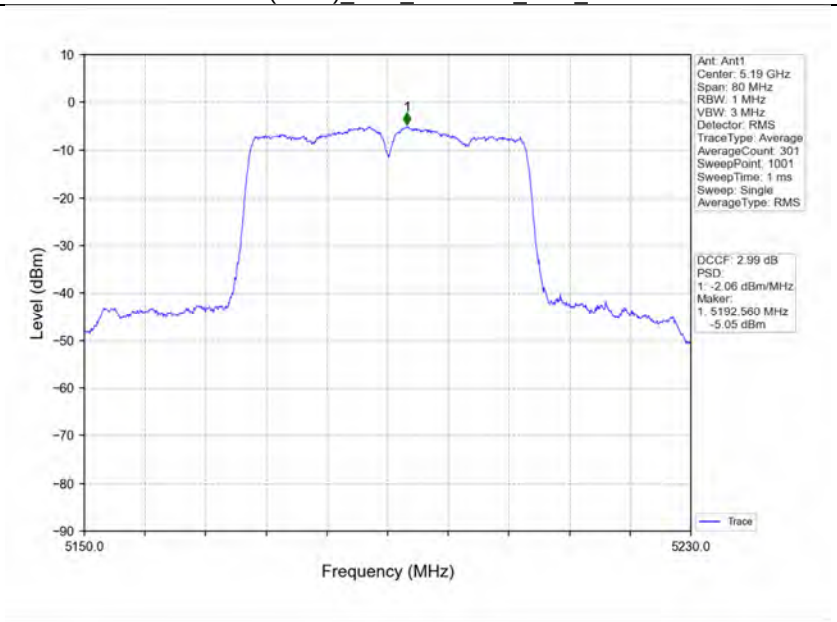
802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



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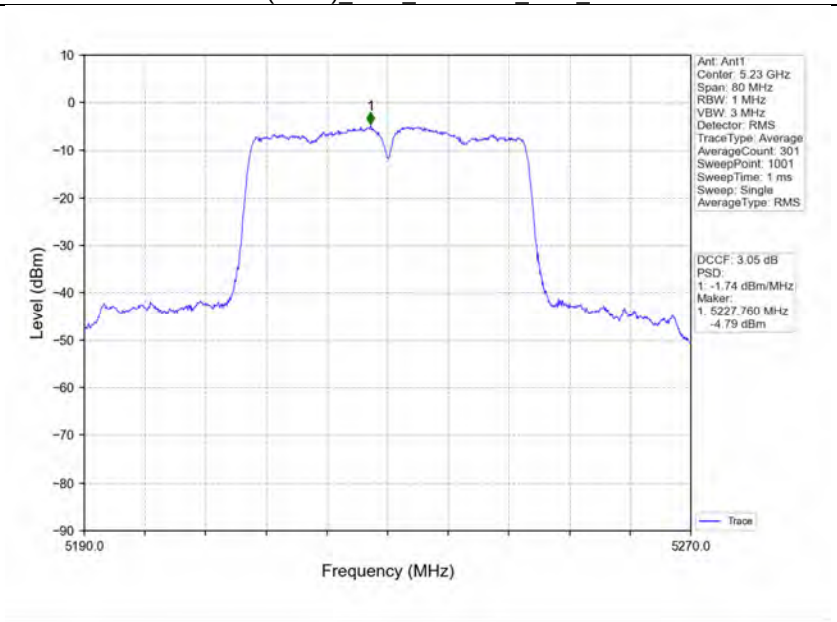

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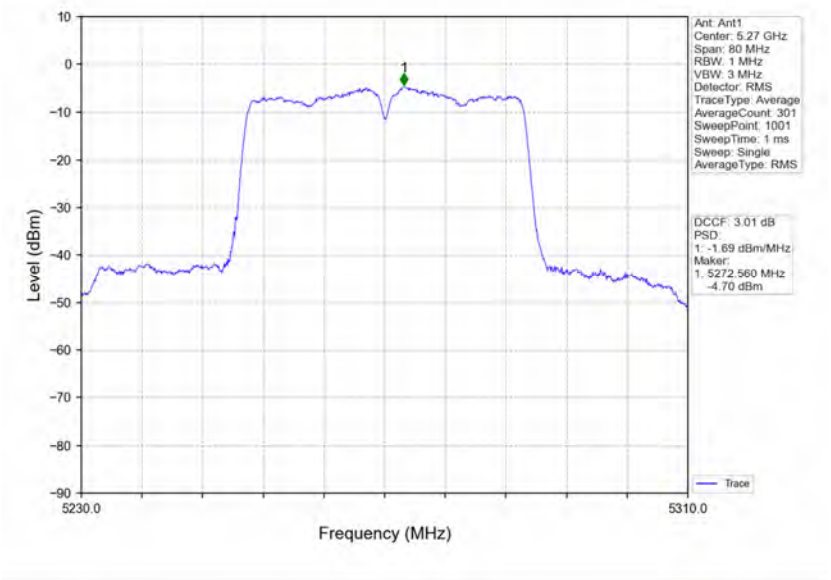
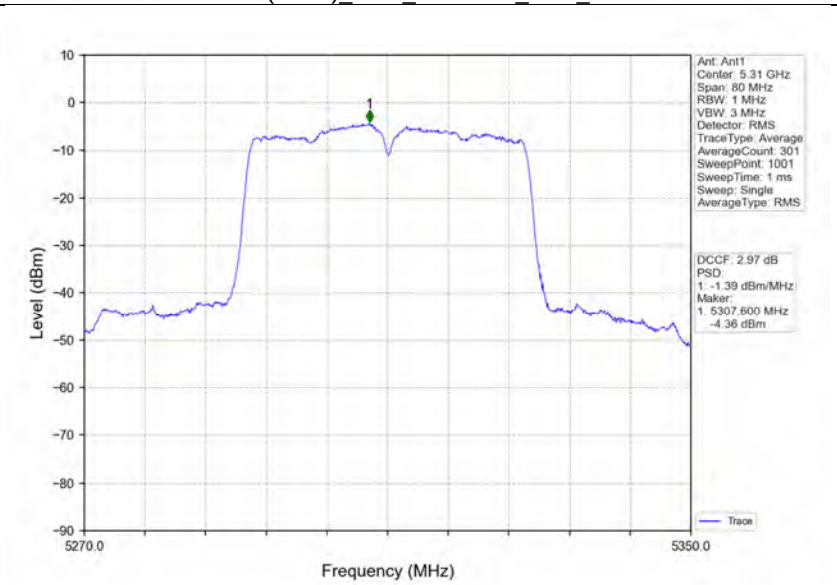
802.11n(HT40)_LCH_5270MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



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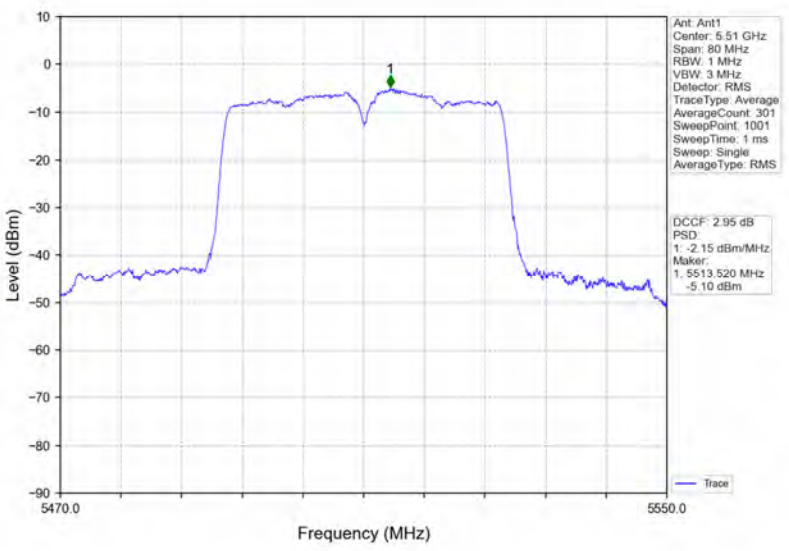
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



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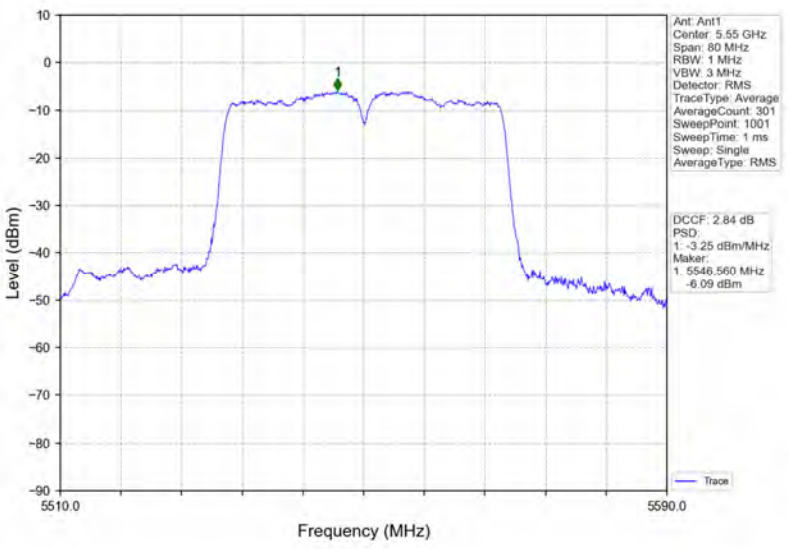

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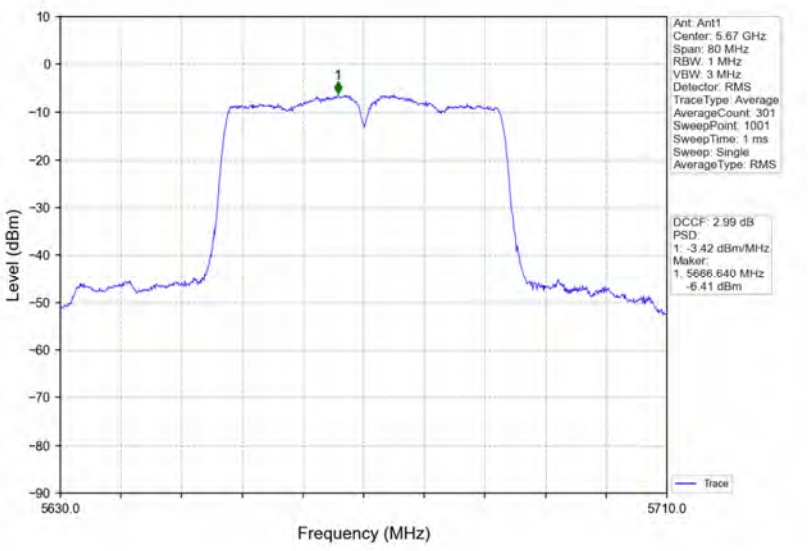
802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



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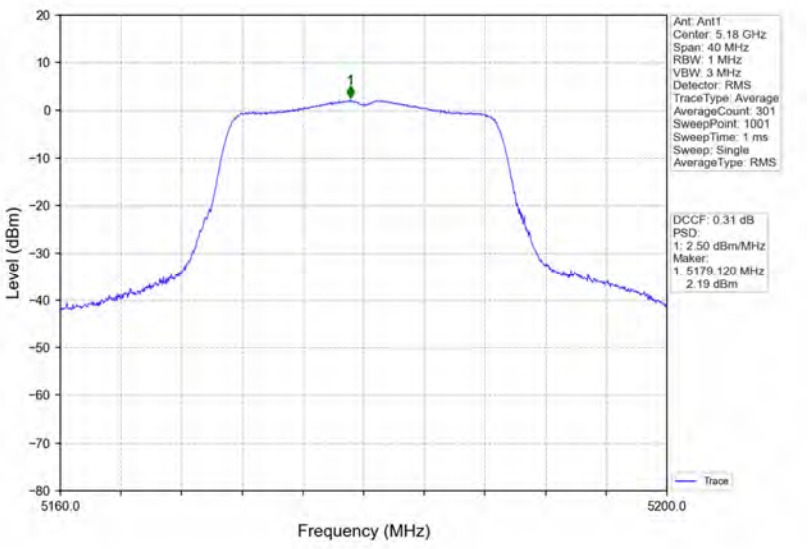

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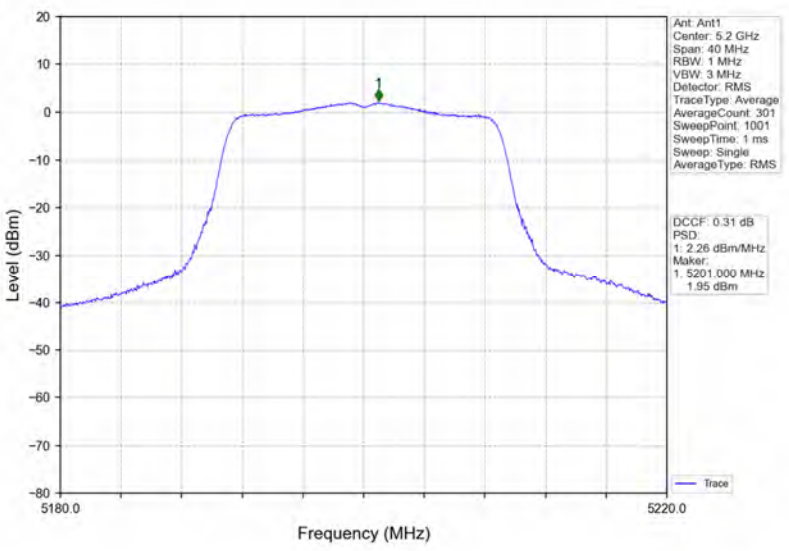
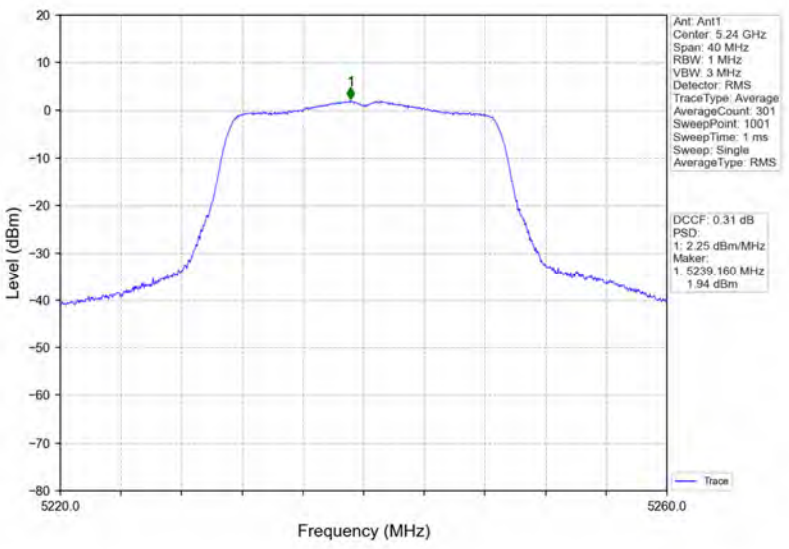
802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



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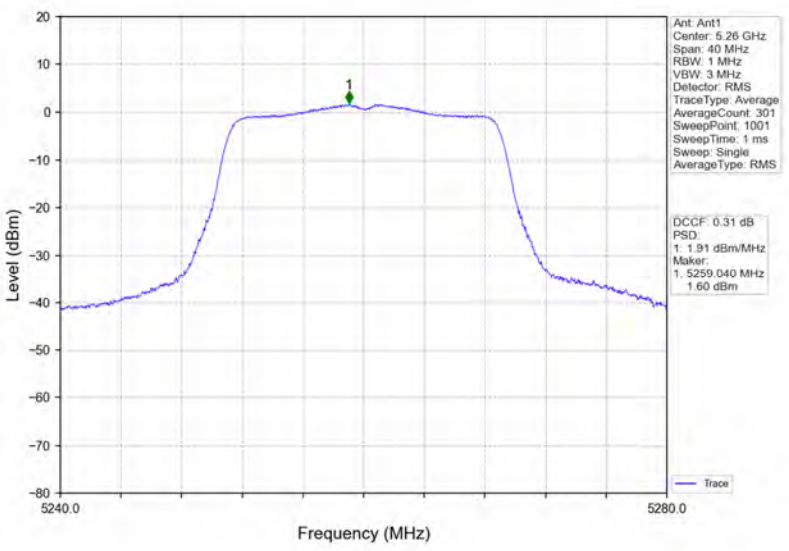
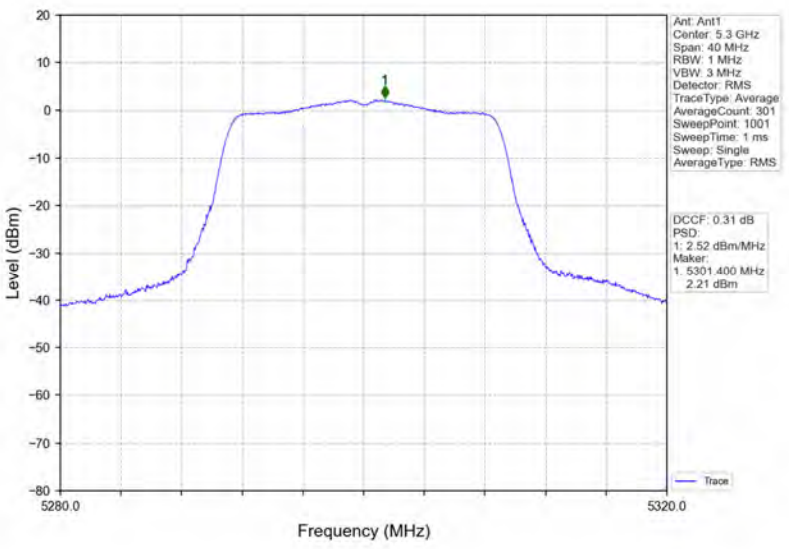
802.11ac(VHT20)_LCH_5260MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



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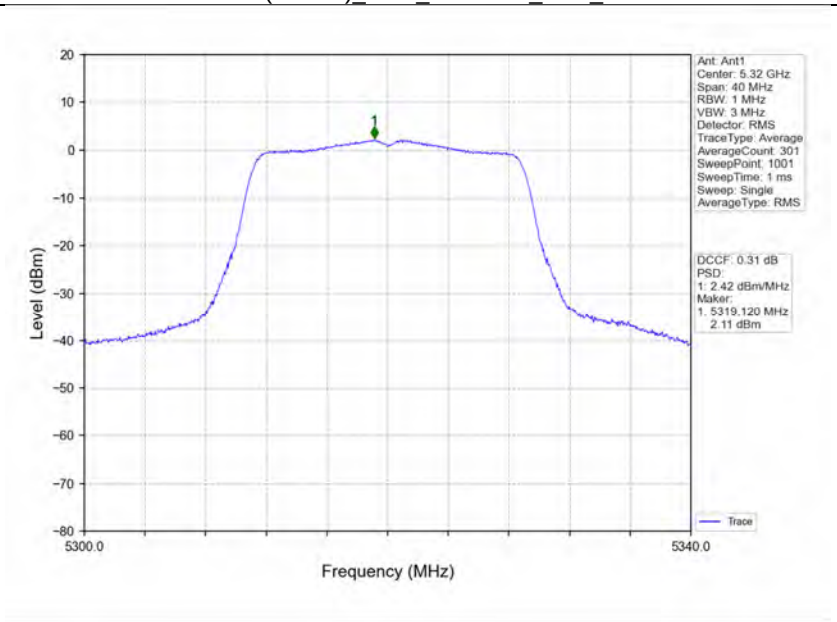
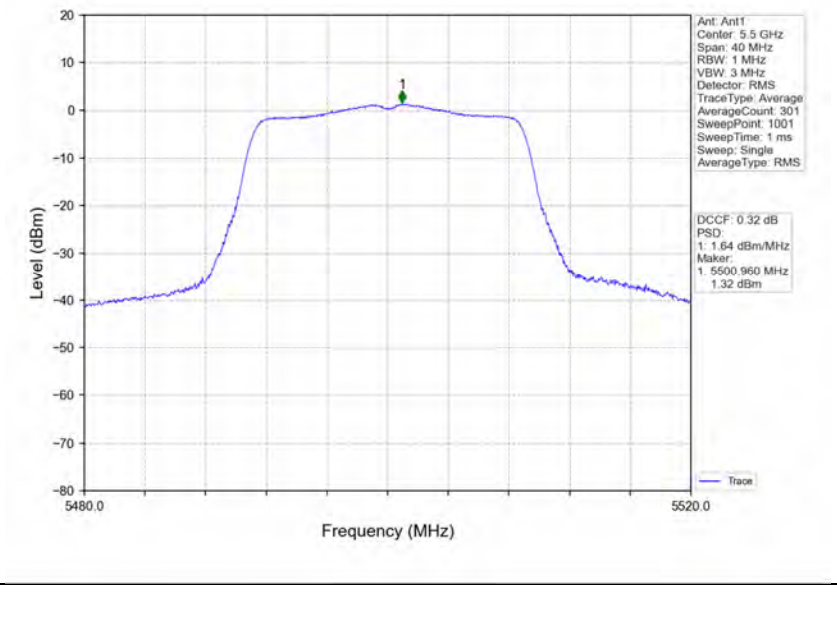
802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5500MHz_Ant1_NTNV



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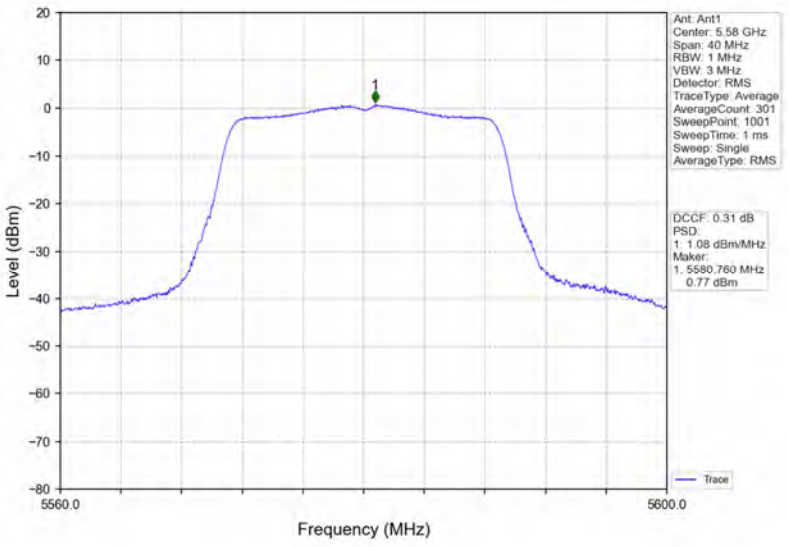
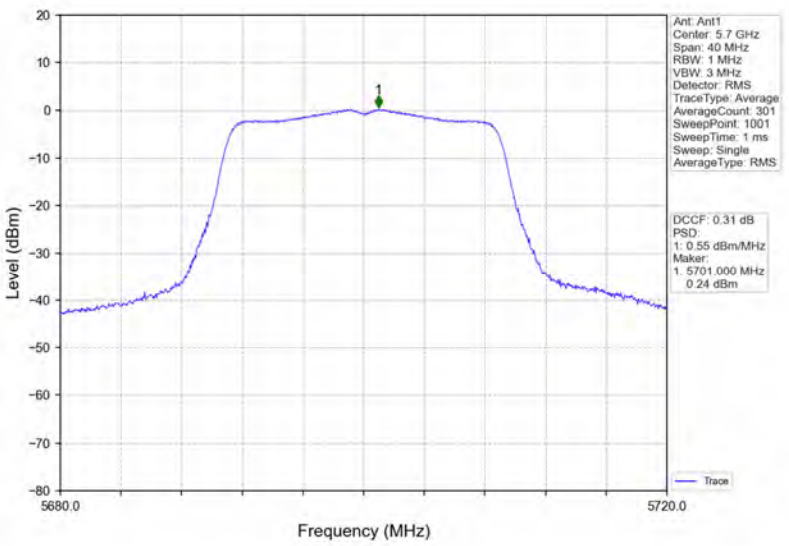
802.11ac(VHT20)_MCH_5580MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5700MHz_Ant1_NTNV



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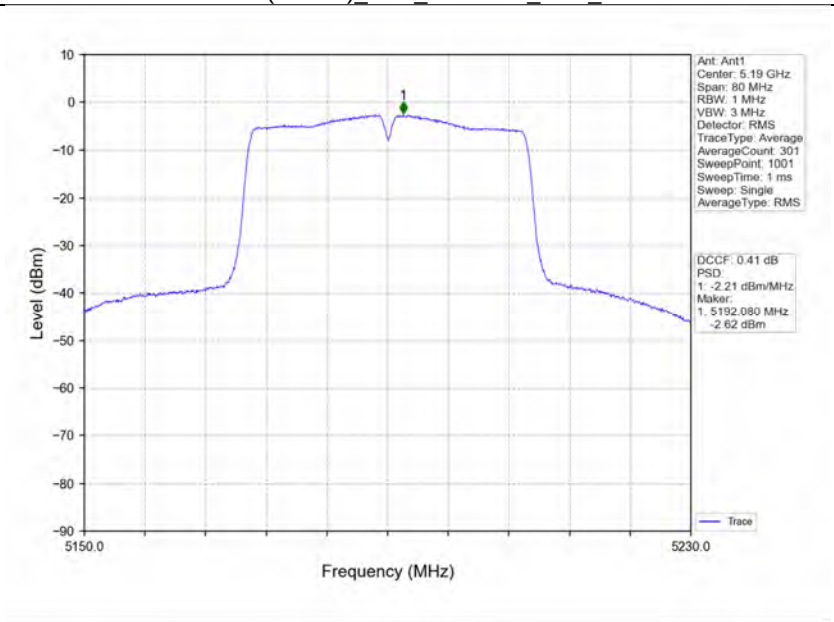
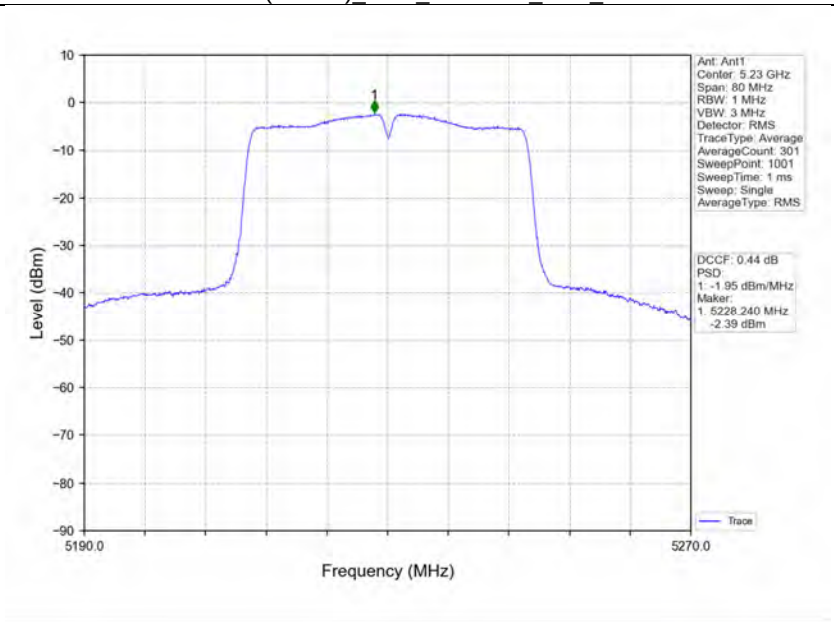
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



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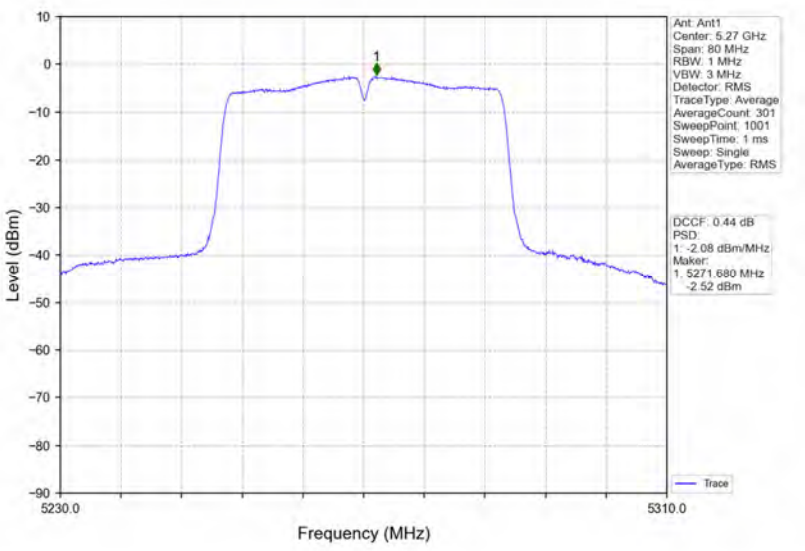
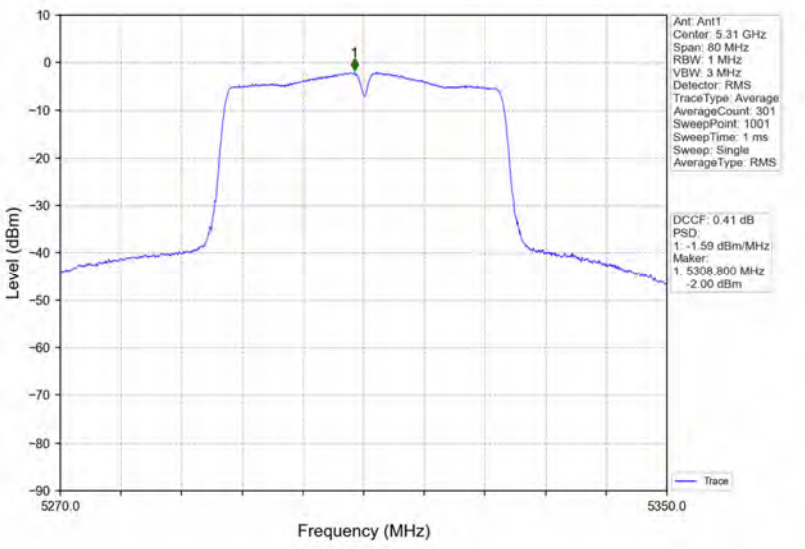
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



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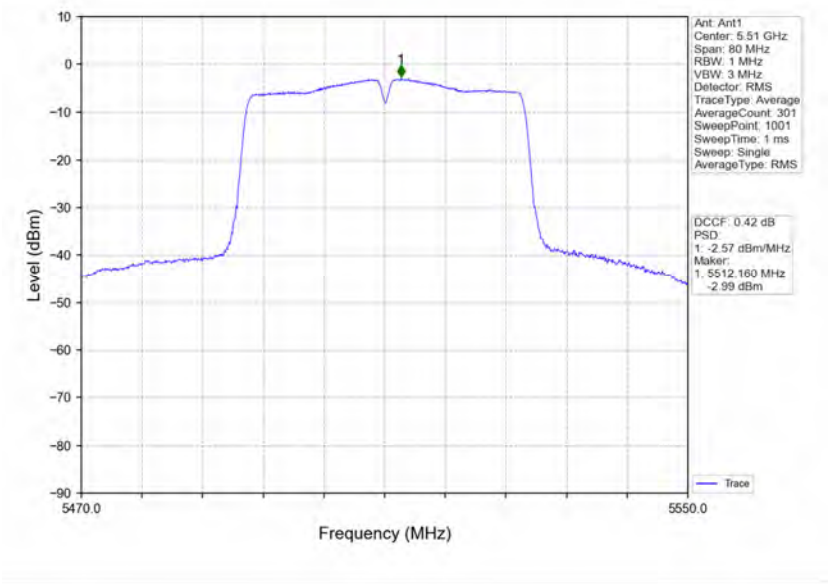
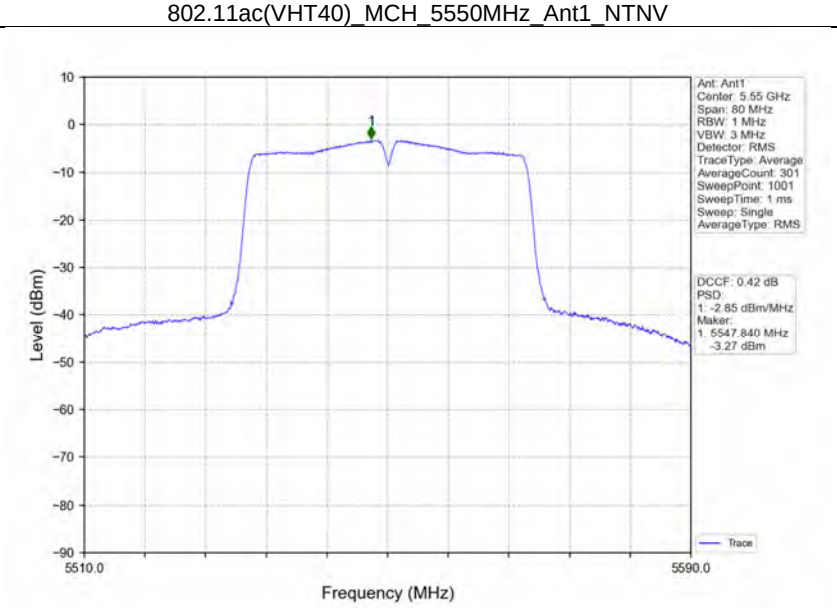
802.11ac(VHT40)_LCH_5510MHz_Ant1_NTNV



802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



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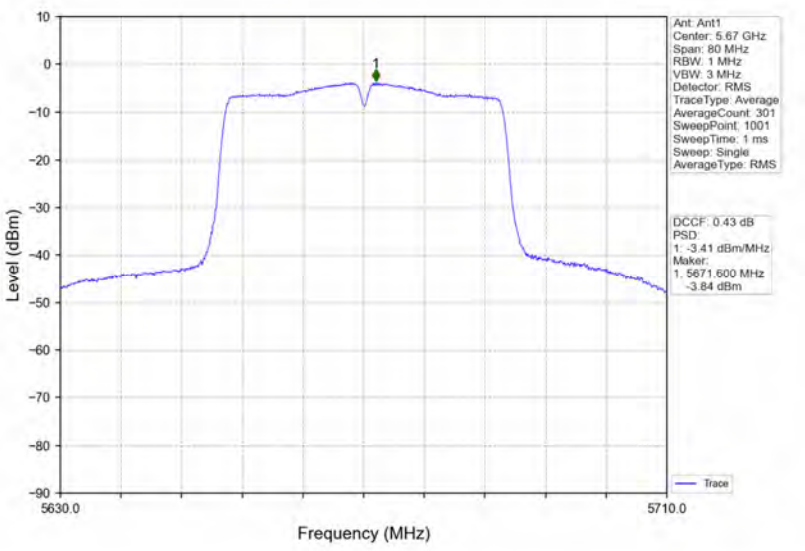
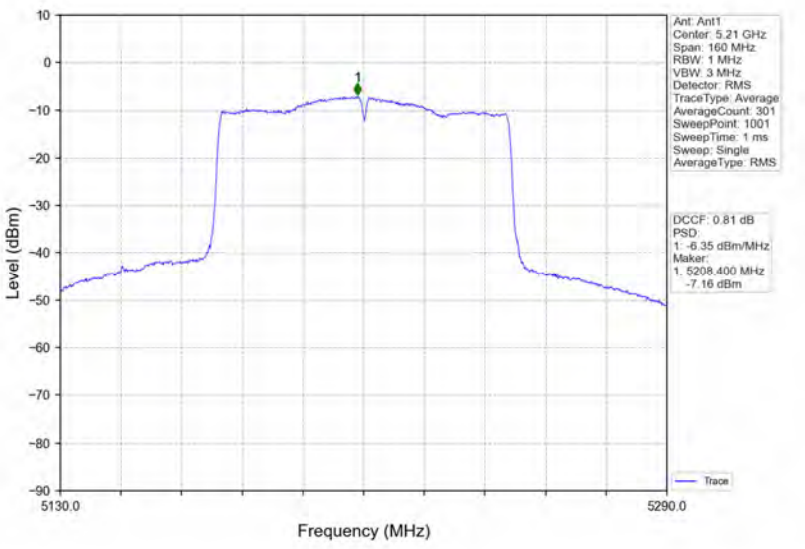
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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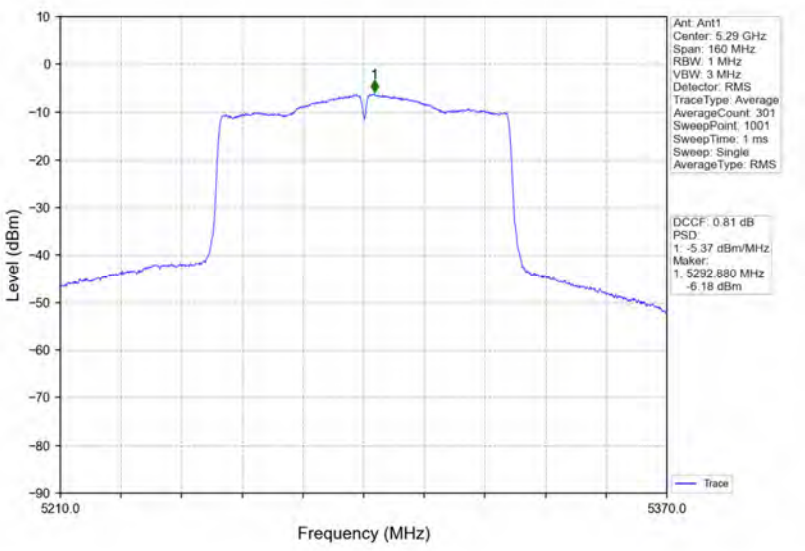
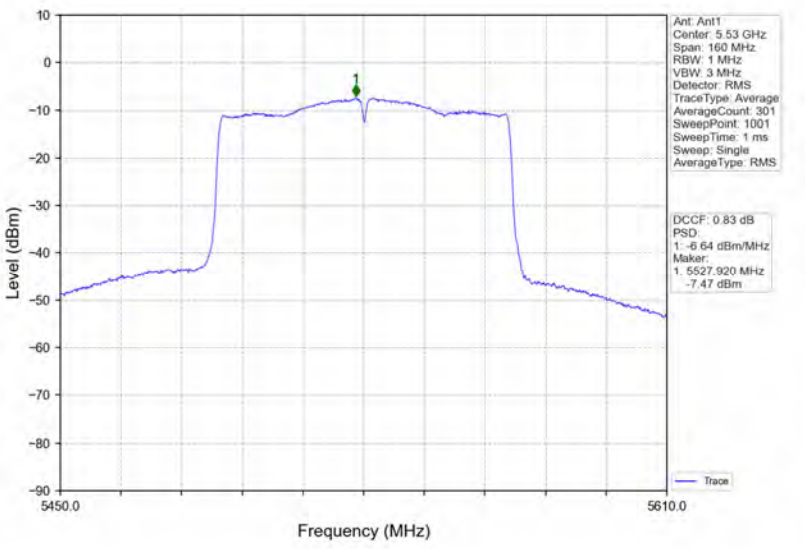
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



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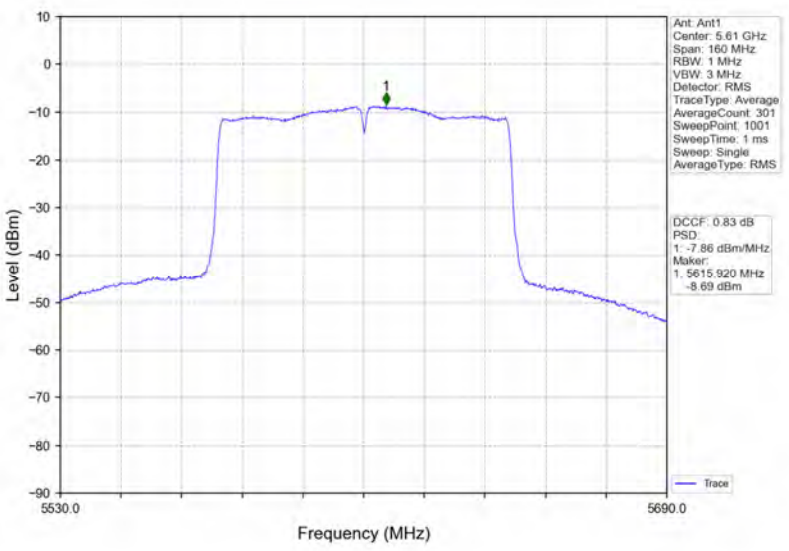
802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



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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	-1.80	<=30	Pass
		5785	-2.02	<=30	Pass
		5825	-2.42	<=30	Pass
802.11n (HT20)	SISO	5745	-2.11	<=30	Pass
		5785	-2.62	<=30	Pass
		5825	-2.85	<=30	Pass
802.11n (HT40)	SISO	5755	-6.16	<=30	Pass
		5795	-6.54	<=30	Pass
802.11ac (VHT20)	SISO	5745	-2.05	<=30	Pass
		5785	-2.75	<=30	Pass
		5825	-2.87	<=30	Pass
802.11ac (VHT40)	SISO	5755	-6.55	<=30	Pass
		5795	-7.10	<=30	Pass
802.11ac (VHT80)	SISO	5775	-11.03	<=30	Pass
Note1: Antenna Gain: 5150-5250MHz: -0.4dBi, 5250-5350MHz: 1.55dBi, 5470-5725MHz: 2.54dBi, 5725-5850MHz: 1.92dBi					

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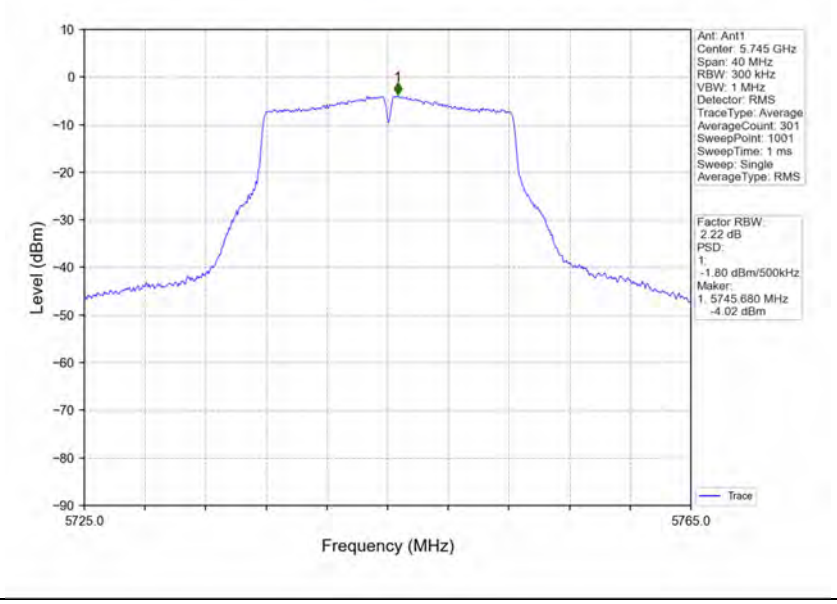
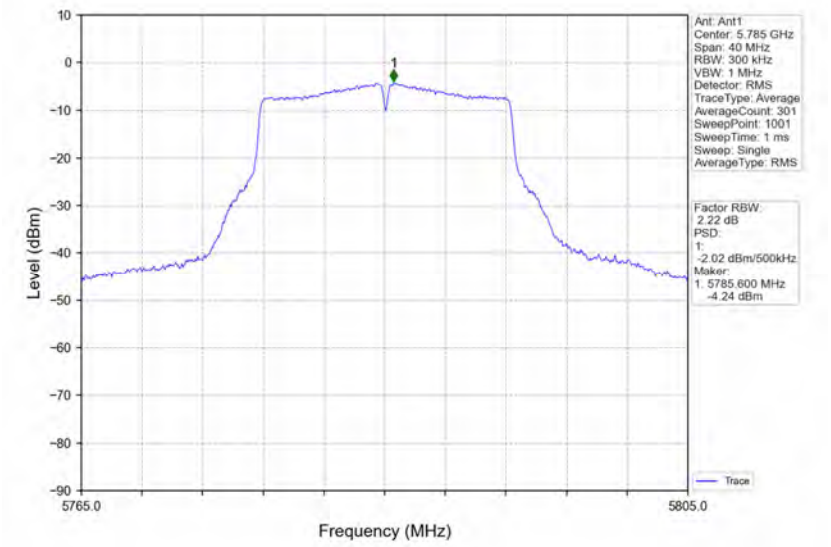
4.2.2 Test Graph

802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant1_NTNV



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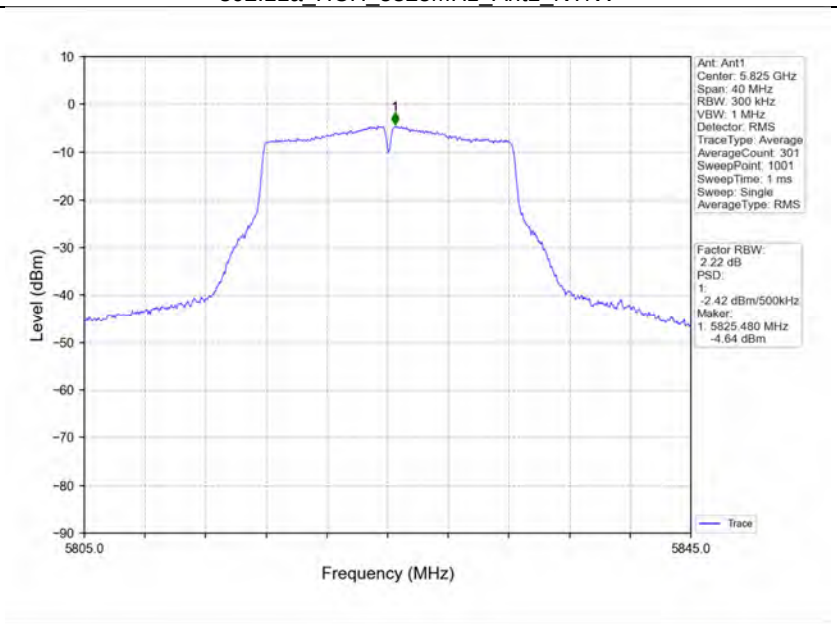
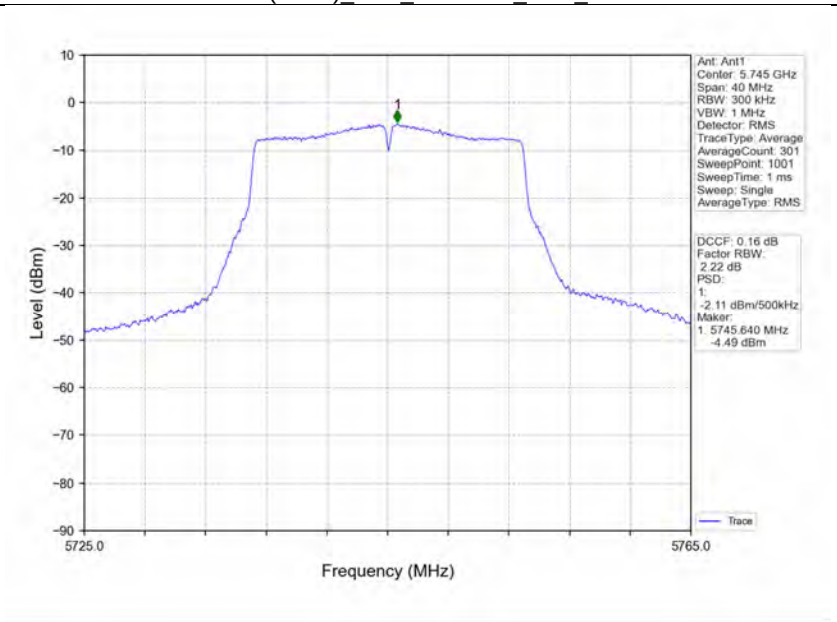
802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



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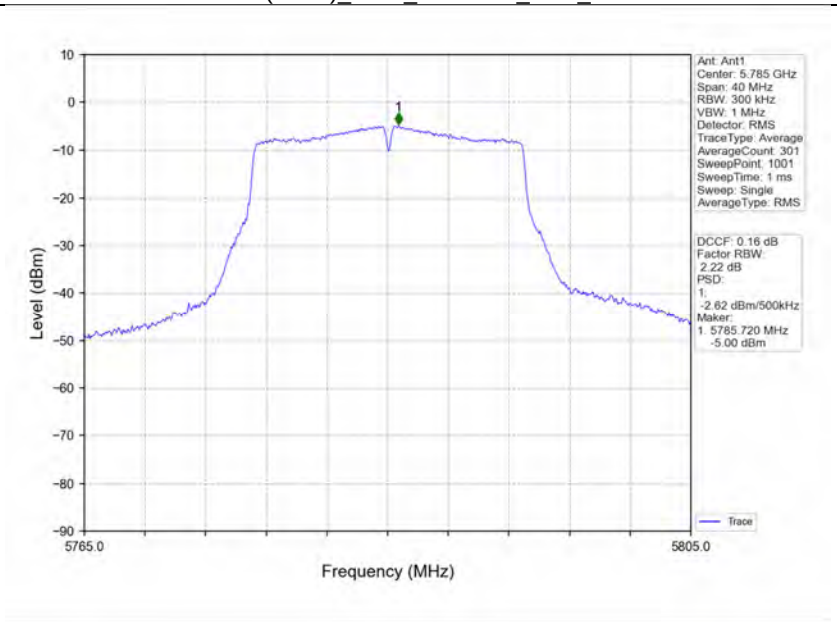
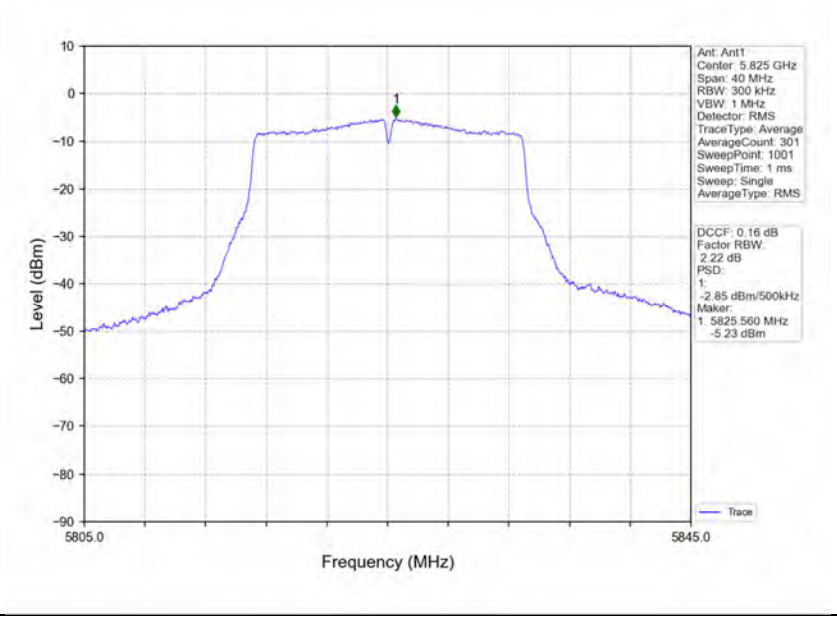
802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



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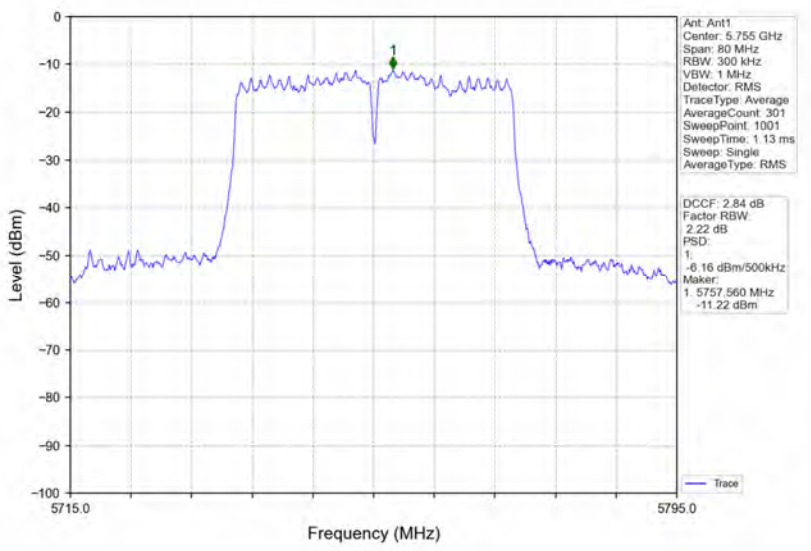
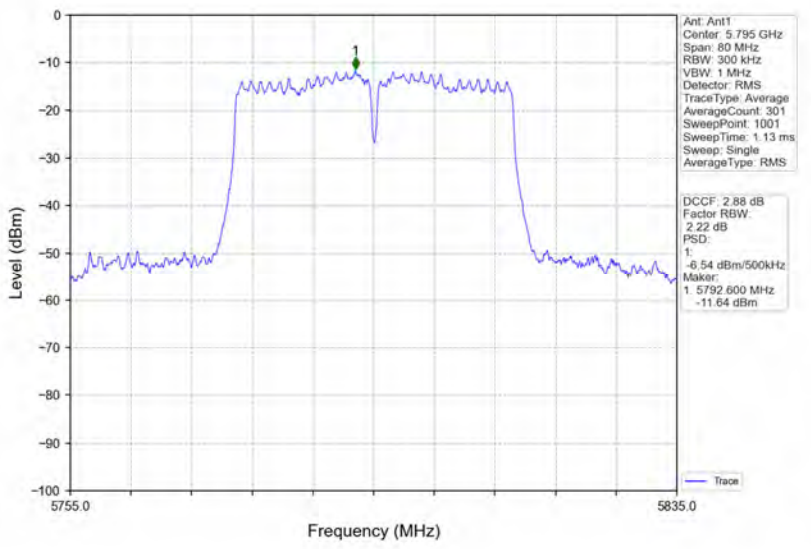
802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



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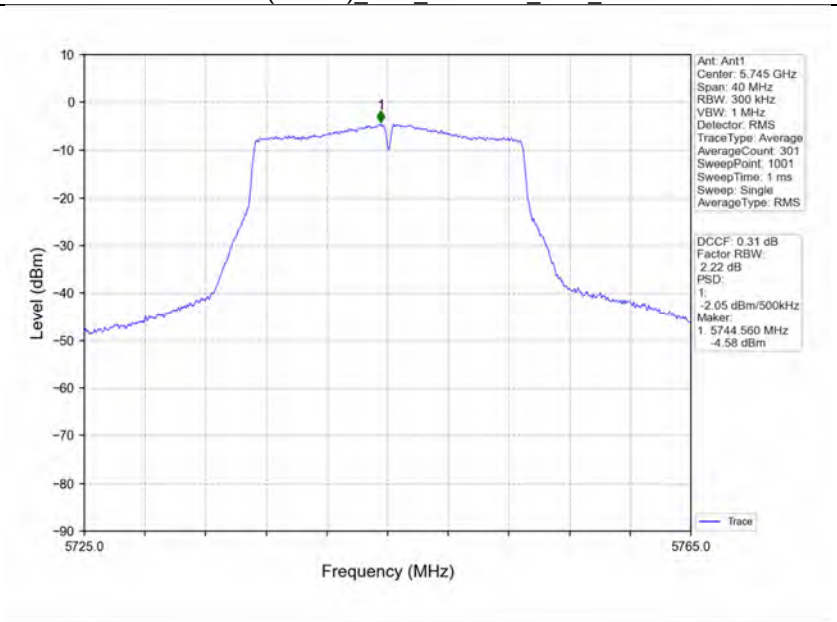
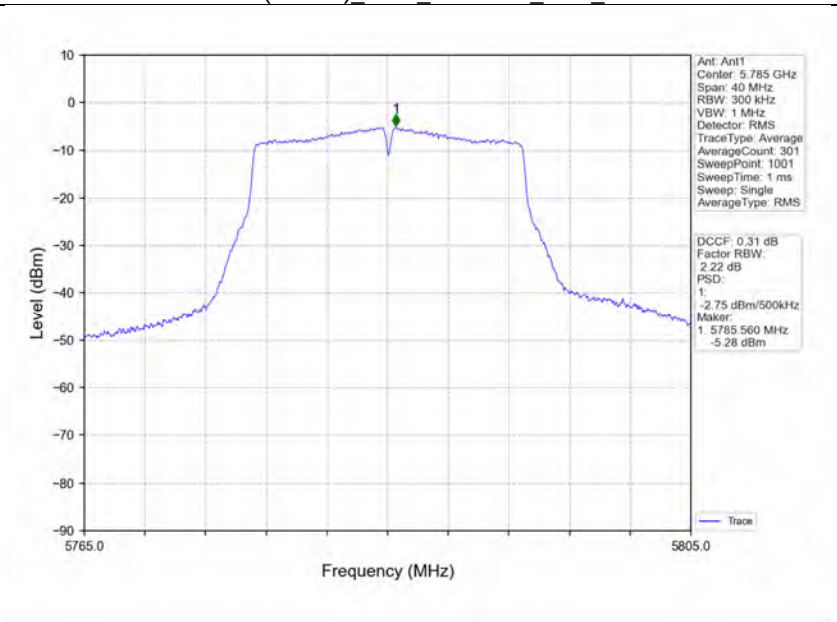
802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



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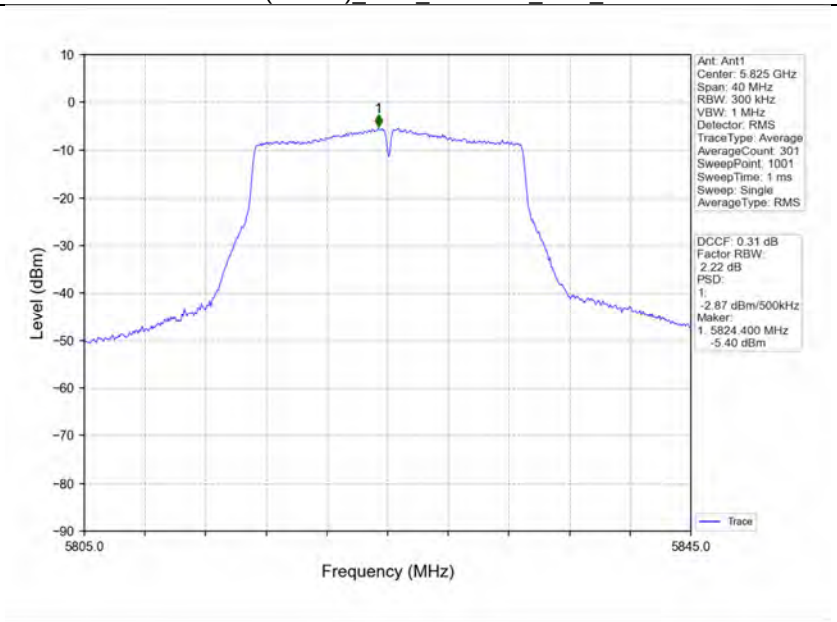
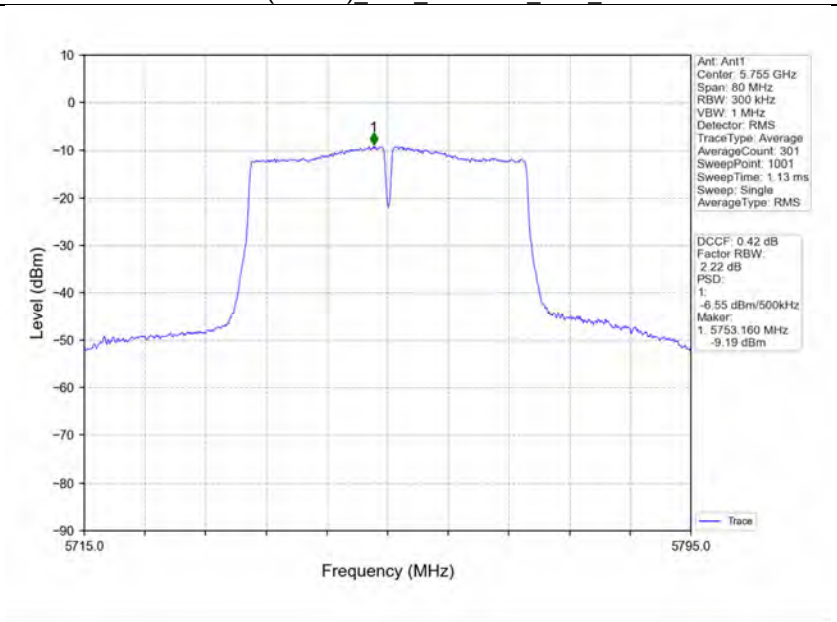
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



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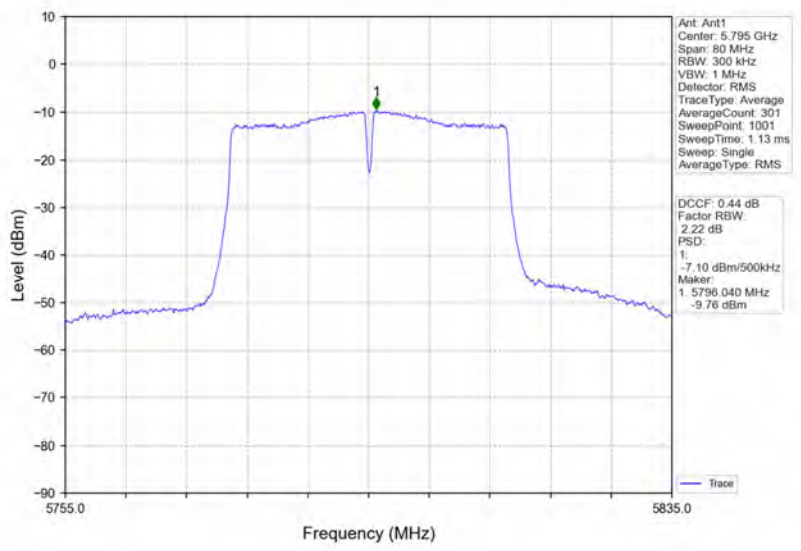
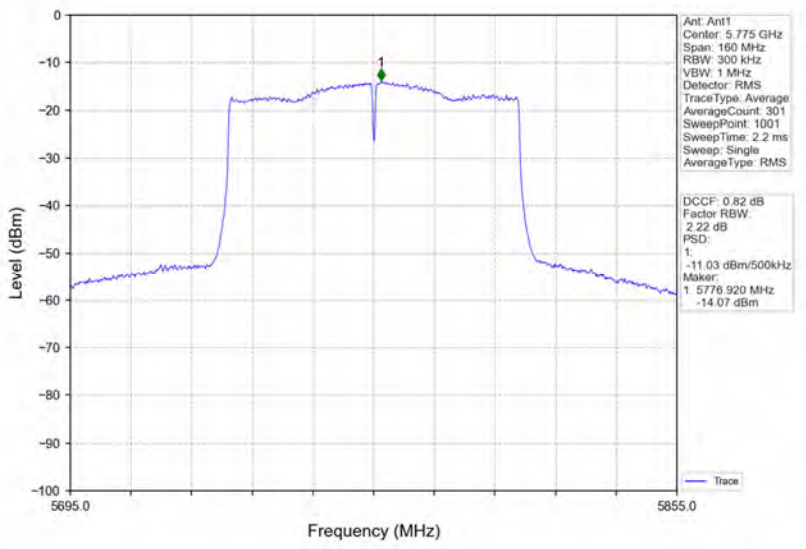
802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_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	5180.040	5150 to 5250	Pass
				120	5180.020	5150 to 5250	Pass
				138	5180.000	5150 to 5250	Pass
			-30	120	5180.020	5150 to 5250	Pass
			-20	120	5180.060	5150 to 5250	Pass
			-10	120	5180.080	5150 to 5250	Pass
			0	120	5180.060	5150 to 5250	Pass
			10	120	5180.000	5150 to 5250	Pass
			30	120	5180.040	5150 to 5250	Pass
			40	120	5180.020	5150 to 5250	Pass
			50	120	5180.020	5150 to 5250	Pass
		5200	20	102	5200.100	5150 to 5250	Pass
				120	5200.080	5150 to 5250	Pass
				138	5200.060	5150 to 5250	Pass
			-30	120	5200.000	5150 to 5250	Pass
			-20	120	5200.080	5150 to 5250	Pass
			-10	120	5200.080	5150 to 5250	Pass
			0	120	5200.060	5150 to 5250	Pass
			10	120	5200.020	5150 to 5250	Pass
			30	120	5200.100	5150 to 5250	Pass
			40	120	5200.020	5150 to 5250	Pass
			50	120	5200.040	5150 to 5250	Pass
		5240	20	102	5240.040	5150 to 5250	Pass
				120	5240.040	5150 to 5250	Pass
				138	5240.080	5150 to 5250	Pass
			-30	120	5240.100	5150 to 5250	Pass
			-20	120	5240.020	5150 to 5250	Pass
			-10	120	5240.060	5150 to 5250	Pass
			0	120	5240.020	5150 to 5250	Pass
			10	120	5240.000	5150 to 5250	Pass
			30	120	5240.080	5150 to 5250	Pass
			40	120	5240.080	5150 to 5250	Pass
			50	120	5240.060	5150 to 5250	Pass
		5260	20	102	5260.040	5250 to 5350	Pass
				120	5260.040	5250 to 5350	Pass
				138	5260.080	5250 to 5350	Pass
			-30	120	5260.080	5250 to 5350	Pass
			-20	120	5260.080	5250 to 5350	Pass
			-10	120	5259.980	5250 to 5350	Pass
			0	120	5260.080	5250 to 5350	Pass

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			10	120	5260.060	5250 to 5350	Pass
			30	120	5260.120	5250 to 5350	Pass
			40	120	5260.040	5250 to 5350	Pass
			50	120	5260.080	5250 to 5350	Pass
		5300	20	102	5300.100	5250 to 5350	Pass
				120	5300.100	5250 to 5350	Pass
				138	5300.080	5250 to 5350	Pass
			-30	120	5300.080	5250 to 5350	Pass
			-20	120	5300.000	5250 to 5350	Pass
			-10	120	5300.080	5250 to 5350	Pass
			0	120	5300.060	5250 to 5350	Pass
			10	120	5300.040	5250 to 5350	Pass
			30	120	5300.020	5250 to 5350	Pass
			40	120	5300.060	5250 to 5350	Pass
			50	120	5300.080	5250 to 5350	Pass
		5320	20	102	5320.040	5250 to 5350	Pass
				120	5320.120	5250 to 5350	Pass
				138	5320.000	5250 to 5350	Pass
			-30	120	5320.000	5250 to 5350	Pass
			-20	120	5320.040	5250 to 5350	Pass
			-10	120	5320.080	5250 to 5350	Pass
			0	120	5320.060	5250 to 5350	Pass
			10	120	5320.060	5250 to 5350	Pass
			30	120	5320.060	5250 to 5350	Pass
			40	120	5319.980	5250 to 5350	Pass
			50	120	5320.060	5250 to 5350	Pass
		5500	20	102	5500.120	5470 to 5725	Pass
				120	5500.040	5470 to 5725	Pass
				138	5500.100	5470 to 5725	Pass
			-30	120	5500.120	5470 to 5725	Pass
			-20	120	5500.020	5470 to 5725	Pass
			-10	120	5500.120	5470 to 5725	Pass
			0	120	5500.120	5470 to 5725	Pass
			10	120	5500.060	5470 to 5725	Pass
			30	120	5500.080	5470 to 5725	Pass
			40	120	5500.120	5470 to 5725	Pass
			50	120	5500.120	5470 to 5725	Pass
		5580	20	102	5580.000	5470 to 5725	Pass
				120	5580.060	5470 to 5725	Pass
				138	5580.100	5470 to 5725	Pass
			-30	120	5580.120	5470 to 5725	Pass
			-20	120	5580.060	5470 to 5725	Pass
			-10	120	5580.080	5470 to 5725	Pass
			0	120	5580.080	5470 to 5725	Pass
			10	120	5580.060	5470 to 5725	Pass
			30	120	5580.060	5470 to 5725	Pass
			40	120	5579.980	5470 to 5725	Pass
			50	120	5580.080	5470 to 5725	Pass
		5700	20	102	5700.100	5470 to 5725	Pass
				120	5700.020	5470 to 5725	Pass
				138	5700.060	5470 to 5725	Pass

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			-30	120	5700.060	5470 to 5725	Pass
			-20	120	5700.080	5470 to 5725	Pass
			-10	120	5700.120	5470 to 5725	Pass
			0	120	5700.020	5470 to 5725	Pass
			10	120	5700.020	5470 to 5725	Pass
			30	120	5700.060	5470 to 5725	Pass
			40	120	5700.020	5470 to 5725	Pass
			50	120	5700.100	5470 to 5725	Pass
		5745	20	102	5745.000	5725 to 5850	Pass
				120	5745.020	5725 to 5850	Pass
				138	5745.060	5725 to 5850	Pass
			-30	120	5745.060	5725 to 5850	Pass
			-20	120	5745.120	5725 to 5850	Pass
			-10	120	5745.100	5725 to 5850	Pass
			0	120	5745.080	5725 to 5850	Pass
			10	120	5745.040	5725 to 5850	Pass
			30	120	5745.000	5725 to 5850	Pass
			40	120	5745.080	5725 to 5850	Pass
			50	120	5745.060	5725 to 5850	Pass
		5785	20	102	5785.060	5725 to 5850	Pass
				120	5785.080	5725 to 5850	Pass
				138	5785.120	5725 to 5850	Pass
			-30	120	5785.100	5725 to 5850	Pass
			-20	120	5785.120	5725 to 5850	Pass
			-10	120	5785.040	5725 to 5850	Pass
			0	120	5785.140	5725 to 5850	Pass
			10	120	5785.060	5725 to 5850	Pass
			30	120	5785.080	5725 to 5850	Pass
			40	120	5785.040	5725 to 5850	Pass
			50	120	5785.040	5725 to 5850	Pass
		5825	20	102	5825.080	5725 to 5850	Pass
				120	5825.100	5725 to 5850	Pass
				138	5825.060	5725 to 5850	Pass
			-30	120	5825.040	5725 to 5850	Pass
			-20	120	5825.140	5725 to 5850	Pass
			-10	120	5825.080	5725 to 5850	Pass
			0	120	5825.060	5725 to 5850	Pass
			10	120	5825.080	5725 to 5850	Pass
			30	120	5825.040	5725 to 5850	Pass
			40	120	5825.080	5725 to 5850	Pass
			50	120	5824.980	5725 to 5850	Pass
802.11n (HT20)	SISO	5180	20	102	5180.020	5150 to 5250	Pass
				120	5180.040	5150 to 5250	Pass
				138	5180.080	5150 to 5250	Pass
			-30	120	5180.020	5150 to 5250	Pass
			-20	120	5180.080	5150 to 5250	Pass
			-10	120	5180.100	5150 to 5250	Pass
			0	120	5180.020	5150 to 5250	Pass
			10	120	5180.060	5150 to 5250	Pass
			30	120	5180.040	5150 to 5250	Pass
			40	120	5180.060	5150 to 5250	Pass

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			50	120	5180.100	5150 to 5250	Pass
		5200	20	102	5200.080	5150 to 5250	Pass
				120	5200.040	5150 to 5250	Pass
				138	5200.100	5150 to 5250	Pass
			-30	120	5200.080	5150 to 5250	Pass
			-20	120	5200.080	5150 to 5250	Pass
			-10	120	5200.120	5150 to 5250	Pass
			0	120	5200.020	5150 to 5250	Pass
			10	120	5200.060	5150 to 5250	Pass
			30	120	5200.040	5150 to 5250	Pass
			40	120	5200.000	5150 to 5250	Pass
			50	120	5200.060	5150 to 5250	Pass
		5240	20	102	5240.020	5150 to 5250	Pass
				120	5240.080	5150 to 5250	Pass
				138	5239.980	5150 to 5250	Pass
			-30	120	5240.020	5150 to 5250	Pass
			-20	120	5240.080	5150 to 5250	Pass
			-10	120	5240.080	5150 to 5250	Pass
			0	120	5240.100	5150 to 5250	Pass
			10	120	5240.080	5150 to 5250	Pass
			30	120	5240.060	5150 to 5250	Pass
			40	120	5240.060	5150 to 5250	Pass
			50	120	5240.080	5150 to 5250	Pass
		5260	20	102	5260.140	5250 to 5350	Pass
				120	5260.080	5250 to 5350	Pass
				138	5260.000	5250 to 5350	Pass
			-30	120	5260.140	5250 to 5350	Pass
			-20	120	5260.060	5250 to 5350	Pass
			-10	120	5260.080	5250 to 5350	Pass
			0	120	5260.020	5250 to 5350	Pass
			10	120	5260.040	5250 to 5350	Pass
			30	120	5260.080	5250 to 5350	Pass
			40	120	5260.060	5250 to 5350	Pass
			50	120	5260.080	5250 to 5350	Pass
		5300	20	102	5300.060	5250 to 5350	Pass
				120	5300.080	5250 to 5350	Pass
				138	5300.080	5250 to 5350	Pass
			-30	120	5300.040	5250 to 5350	Pass
			-20	120	5300.060	5250 to 5350	Pass
			-10	120	5300.060	5250 to 5350	Pass
			0	120	5300.060	5250 to 5350	Pass
			10	120	5299.980	5250 to 5350	Pass
			30	120	5299.980	5250 to 5350	Pass
			40	120	5300.060	5250 to 5350	Pass
			50	120	5300.060	5250 to 5350	Pass
		5320	20	102	5320.060	5250 to 5350	Pass
				120	5320.020	5250 to 5350	Pass
				138	5320.060	5250 to 5350	Pass
			-30	120	5320.020	5250 to 5350	Pass
			-20	120	5320.120	5250 to 5350	Pass
			-10	120	5320.060	5250 to 5350	Pass

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			0	120	5320.100	5250 to 5350	Pass
			10	120	5320.020	5250 to 5350	Pass
			30	120	5320.040	5250 to 5350	Pass
			40	120	5320.040	5250 to 5350	Pass
			50	120	5320.060	5250 to 5350	Pass
		5500	20	102	5500.080	5470 to 5725	Pass
				120	5500.080	5470 to 5725	Pass
				138	5500.060	5470 to 5725	Pass
			-30	120	5500.060	5470 to 5725	Pass
			-20	120	5500.100	5470 to 5725	Pass
			-10	120	5500.080	5470 to 5725	Pass
			0	120	5500.040	5470 to 5725	Pass
			10	120	5500.100	5470 to 5725	Pass
			30	120	5500.060	5470 to 5725	Pass
			40	120	5500.100	5470 to 5725	Pass
			50	120	5500.060	5470 to 5725	Pass
		5580	20	102	5579.980	5470 to 5725	Pass
				120	5580.060	5470 to 5725	Pass
				138	5580.060	5470 to 5725	Pass
			-30	120	5580.060	5470 to 5725	Pass
			-20	120	5580.080	5470 to 5725	Pass
			-10	120	5580.100	5470 to 5725	Pass
			0	120	5580.020	5470 to 5725	Pass
			10	120	5580.020	5470 to 5725	Pass
			30	120	5579.980	5470 to 5725	Pass
			40	120	5580.060	5470 to 5725	Pass
			50	120	5580.020	5470 to 5725	Pass
		5700	20	102	5700.040	5470 to 5725	Pass
				120	5700.080	5470 to 5725	Pass
				138	5700.080	5470 to 5725	Pass
			-30	120	5700.040	5470 to 5725	Pass
			-20	120	5700.040	5470 to 5725	Pass
			-10	120	5700.020	5470 to 5725	Pass
			0	120	5700.060	5470 to 5725	Pass
			10	120	5700.020	5470 to 5725	Pass
			30	120	5700.040	5470 to 5725	Pass
			40	120	5700.060	5470 to 5725	Pass
			50	120	5700.120	5470 to 5725	Pass
		5745	20	102	5745.000	5725 to 5850	Pass
				120	5745.060	5725 to 5850	Pass
				138	5745.060	5725 to 5850	Pass
			-30	120	5745.020	5725 to 5850	Pass
			-20	120	5745.080	5725 to 5850	Pass
			-10	120	5745.080	5725 to 5850	Pass
			0	120	5745.140	5725 to 5850	Pass
			10	120	5745.120	5725 to 5850	Pass
			30	120	5745.040	5725 to 5850	Pass
			40	120	5745.040	5725 to 5850	Pass
			50	120	5745.060	5725 to 5850	Pass
		5785	20	102	5785.100	5725 to 5850	Pass
				120	5785.020	5725 to 5850	Pass

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				138	5785.080	5725 to 5850	Pass
			-30	120	5785.060	5725 to 5850	Pass
			-20	120	5785.000	5725 to 5850	Pass
			-10	120	5785.080	5725 to 5850	Pass
			0	120	5785.100	5725 to 5850	Pass
			10	120	5785.060	5725 to 5850	Pass
			30	120	5785.040	5725 to 5850	Pass
			40	120	5785.080	5725 to 5850	Pass
			50	120	5785.080	5725 to 5850	Pass
		5825	20	102	5825.060	5725 to 5850	Pass
				120	5825.060	5725 to 5850	Pass
				138	5825.040	5725 to 5850	Pass
			-30	120	5825.040	5725 to 5850	Pass
			-20	120	5825.080	5725 to 5850	Pass
			-10	120	5825.080	5725 to 5850	Pass
			0	120	5825.020	5725 to 5850	Pass
			10	120	5825.040	5725 to 5850	Pass
			30	120	5825.080	5725 to 5850	Pass
			40	120	5825.060	5725 to 5850	Pass
			50	120	5825.100	5725 to 5850	Pass
802.11n (HT40)	SISO	5190	20	102	5190.080	5150 to 5250	Pass
				120	5190.080	5150 to 5250	Pass
				138	5190.080	5150 to 5250	Pass
			-30	120	5190.040	5150 to 5250	Pass
			-20	120	5190.120	5150 to 5250	Pass
			-10	120	5190.120	5150 to 5250	Pass
			0	120	5190.080	5150 to 5250	Pass
			10	120	5190.080	5150 to 5250	Pass
			30	120	5190.080	5150 to 5250	Pass
			40	120	5190.080	5150 to 5250	Pass
			50	120	5190.120	5150 to 5250	Pass
		5230	20	102	5230.120	5150 to 5250	Pass
				120	5230.080	5150 to 5250	Pass
				138	5230.120	5150 to 5250	Pass
			-30	120	5230.120	5150 to 5250	Pass
			-20	120	5230.160	5150 to 5250	Pass
			-10	120	5230.080	5150 to 5250	Pass
			0	120	5230.120	5150 to 5250	Pass
			10	120	5230.040	5150 to 5250	Pass
			30	120	5230.120	5150 to 5250	Pass
			40	120	5230.080	5150 to 5250	Pass
			50	120	5230.120	5150 to 5250	Pass
		5270	20	102	5270.120	5250 to 5350	Pass
				120	5270.080	5250 to 5350	Pass
				138	5270.080	5250 to 5350	Pass
			-30	120	5270.120	5250 to 5350	Pass
			-20	120	5270.080	5250 to 5350	Pass
			-10	120	5270.120	5250 to 5350	Pass
			0	120	5270.120	5250 to 5350	Pass
			10	120	5270.120	5250 to 5350	Pass
			30	120	5270.080	5250 to 5350	Pass

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			40	120	5270.160	5250 to 5350	Pass
			50	120	5270.080	5250 to 5350	Pass
		5310	20	102	5310.040	5250 to 5350	Pass
				120	5310.040	5250 to 5350	Pass
				138	5310.080	5250 to 5350	Pass
			-30	120	5310.080	5250 to 5350	Pass
			-20	120	5310.080	5250 to 5350	Pass
			-10	120	5310.080	5250 to 5350	Pass
			0	120	5310.040	5250 to 5350	Pass
			10	120	5310.080	5250 to 5350	Pass
			30	120	5310.080	5250 to 5350	Pass
			40	120	5310.080	5250 to 5350	Pass
			50	120	5310.080	5250 to 5350	Pass
		5510	20	102	5510.080	5470 to 5725	Pass
				120	5510.120	5470 to 5725	Pass
				138	5510.080	5470 to 5725	Pass
			-30	120	5510.080	5470 to 5725	Pass
			-20	120	5510.080	5470 to 5725	Pass
			-10	120	5510.160	5470 to 5725	Pass
			0	120	5510.120	5470 to 5725	Pass
			10	120	5510.080	5470 to 5725	Pass
			30	120	5510.080	5470 to 5725	Pass
			40	120	5510.120	5470 to 5725	Pass
			50	120	5510.080	5470 to 5725	Pass
		5550	20	102	5550.080	5470 to 5725	Pass
				120	5550.120	5470 to 5725	Pass
				138	5550.120	5470 to 5725	Pass
			-30	120	5550.080	5470 to 5725	Pass
			-20	120	5550.040	5470 to 5725	Pass
			-10	120	5550.080	5470 to 5725	Pass
			0	120	5550.080	5470 to 5725	Pass
			10	120	5550.080	5470 to 5725	Pass
			30	120	5550.080	5470 to 5725	Pass
			40	120	5550.040	5470 to 5725	Pass
			50	120	5550.120	5470 to 5725	Pass
		5670	20	102	5670.080	5470 to 5725	Pass
				120	5670.040	5470 to 5725	Pass
				138	5670.080	5470 to 5725	Pass
			-30	120	5670.080	5470 to 5725	Pass
			-20	120	5670.040	5470 to 5725	Pass
			-10	120	5670.080	5470 to 5725	Pass
			0	120	5670.080	5470 to 5725	Pass
			10	120	5670.080	5470 to 5725	Pass
			30	120	5670.120	5470 to 5725	Pass
			40	120	5670.120	5470 to 5725	Pass
			50	120	5670.080	5470 to 5725	Pass
		5755	20	102	5755.080	5725 to 5850	Pass
				120	5755.080	5725 to 5850	Pass
				138	5755.120	5725 to 5850	Pass
			-30	120	5755.120	5725 to 5850	Pass
			-20	120	5755.080	5725 to 5850	Pass

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			-10	120	5755.080	5725 to 5850	Pass
			0	120	5755.120	5725 to 5850	Pass
			10	120	5755.040	5725 to 5850	Pass
			30	120	5755.080	5725 to 5850	Pass
			40	120	5755.120	5725 to 5850	Pass
			50	120	5755.080	5725 to 5850	Pass
		5795	20	102	5795.080	5725 to 5850	Pass
				120	5795.120	5725 to 5850	Pass
				138	5795.080	5725 to 5850	Pass
			-30	120	5795.080	5725 to 5850	Pass
			-20	120	5795.080	5725 to 5850	Pass
			-10	120	5795.080	5725 to 5850	Pass
			0	120	5795.080	5725 to 5850	Pass
			10	120	5795.120	5725 to 5850	Pass
			30	120	5795.120	5725 to 5850	Pass
			40	120	5795.120	5725 to 5850	Pass
			50	120	5795.080	5725 to 5850	Pass
802.11ac (VHT20)	SISO	5180	20	102	5180.120	5150 to 5250	Pass
				120	5180.040	5150 to 5250	Pass
				138	5180.060	5150 to 5250	Pass
			-30	120	5180.040	5150 to 5250	Pass
			-20	120	5180.080	5150 to 5250	Pass
			-10	120	5180.020	5150 to 5250	Pass
			0	120	5180.020	5150 to 5250	Pass
			10	120	5180.000	5150 to 5250	Pass
			30	120	5180.080	5150 to 5250	Pass
			40	120	5180.020	5150 to 5250	Pass
			50	120	5180.060	5150 to 5250	Pass
		5200	20	102	5200.060	5150 to 5250	Pass
				120	5200.160	5150 to 5250	Pass
				138	5200.080	5150 to 5250	Pass
			-30	120	5200.060	5150 to 5250	Pass
			-20	120	5200.040	5150 to 5250	Pass
			-10	120	5200.080	5150 to 5250	Pass
			0	120	5200.060	5150 to 5250	Pass
			10	120	5199.960	5150 to 5250	Pass
			30	120	5200.060	5150 to 5250	Pass
			40	120	5200.060	5150 to 5250	Pass
			50	120	5200.020	5150 to 5250	Pass
		5240	20	102	5240.060	5150 to 5250	Pass
				120	5240.060	5150 to 5250	Pass
				138	5240.060	5150 to 5250	Pass
			-30	120	5240.040	5150 to 5250	Pass
			-20	120	5240.060	5150 to 5250	Pass
			-10	120	5240.060	5150 to 5250	Pass
			0	120	5240.020	5150 to 5250	Pass
			10	120	5240.040	5150 to 5250	Pass
			30	120	5240.100	5150 to 5250	Pass
			40	120	5240.020	5150 to 5250	Pass
			50	120	5240.000	5150 to 5250	Pass
		5260	20	102	5260.000	5250 to 5350	Pass

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				120	5260.080	5250 to 5350	Pass
				138	5260.020	5250 to 5350	Pass
			-30	120	5260.080	5250 to 5350	Pass
			-20	120	5260.040	5250 to 5350	Pass
			-10	120	5260.060	5250 to 5350	Pass
			0	120	5260.120	5250 to 5350	Pass
			10	120	5260.040	5250 to 5350	Pass
			30	120	5260.100	5250 to 5350	Pass
			40	120	5260.040	5250 to 5350	Pass
			50	120	5260.060	5250 to 5350	Pass
		5300	20	102	5300.060	5250 to 5350	Pass
				120	5300.060	5250 to 5350	Pass
				138	5300.100	5250 to 5350	Pass
			-30	120	5300.040	5250 to 5350	Pass
			-20	120	5300.120	5250 to 5350	Pass
			-10	120	5300.060	5250 to 5350	Pass
			0	120	5300.080	5250 to 5350	Pass
			10	120	5300.080	5250 to 5350	Pass
			30	120	5300.060	5250 to 5350	Pass
			40	120	5300.040	5250 to 5350	Pass
			50	120	5300.060	5250 to 5350	Pass
		5320	20	102	5320.060	5250 to 5350	Pass
				120	5320.020	5250 to 5350	Pass
				138	5320.080	5250 to 5350	Pass
			-30	120	5320.060	5250 to 5350	Pass
			-20	120	5320.060	5250 to 5350	Pass
			-10	120	5320.080	5250 to 5350	Pass
			0	120	5320.100	5250 to 5350	Pass
			10	120	5320.080	5250 to 5350	Pass
			30	120	5320.040	5250 to 5350	Pass
			40	120	5320.020	5250 to 5350	Pass
			50	120	5320.100	5250 to 5350	Pass
		5500	20	102	5500.080	5470 to 5725	Pass
				120	5500.080	5470 to 5725	Pass
				138	5500.120	5470 to 5725	Pass
			-30	120	5500.100	5470 to 5725	Pass
			-20	120	5500.100	5470 to 5725	Pass
			-10	120	5500.080	5470 to 5725	Pass
			0	120	5500.060	5470 to 5725	Pass
			10	120	5500.060	5470 to 5725	Pass
			30	120	5500.160	5470 to 5725	Pass
			40	120	5500.040	5470 to 5725	Pass
			50	120	5500.080	5470 to 5725	Pass
		5580	20	102	5580.060	5470 to 5725	Pass
				120	5580.040	5470 to 5725	Pass
				138	5580.040	5470 to 5725	Pass
			-30	120	5580.020	5470 to 5725	Pass
			-20	120	5580.100	5470 to 5725	Pass
			-10	120	5580.020	5470 to 5725	Pass
			0	120	5580.100	5470 to 5725	Pass
			10	120	5580.020	5470 to 5725	Pass

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			30	120	5580.060	5470 to 5725	Pass
			40	120	5580.100	5470 to 5725	Pass
			50	120	5580.080	5470 to 5725	Pass
		5700	20	102	5700.060	5470 to 5725	Pass
				120	5700.080	5470 to 5725	Pass
				138	5700.020	5470 to 5725	Pass
			-30	120	5700.040	5470 to 5725	Pass
			-20	120	5700.040	5470 to 5725	Pass
			-10	120	5700.080	5470 to 5725	Pass
			0	120	5700.020	5470 to 5725	Pass
			10	120	5700.080	5470 to 5725	Pass
			30	120	5700.040	5470 to 5725	Pass
			40	120	5700.080	5470 to 5725	Pass
			50	120	5700.100	5470 to 5725	Pass
		5745	20	102	5745.080	5725 to 5850	Pass
				120	5745.040	5725 to 5850	Pass
				138	5745.020	5725 to 5850	Pass
			-30	120	5745.080	5725 to 5850	Pass
			-20	120	5745.120	5725 to 5850	Pass
			-10	120	5745.080	5725 to 5850	Pass
			0	120	5745.040	5725 to 5850	Pass
			10	120	5745.060	5725 to 5850	Pass
			30	120	5745.040	5725 to 5850	Pass
			40	120	5745.040	5725 to 5850	Pass
			50	120	5745.120	5725 to 5850	Pass
		5785	20	102	5785.100	5725 to 5850	Pass
				120	5785.100	5725 to 5850	Pass
				138	5785.080	5725 to 5850	Pass
			-30	120	5785.000	5725 to 5850	Pass
			-20	120	5785.020	5725 to 5850	Pass
			-10	120	5785.060	5725 to 5850	Pass
			0	120	5785.040	5725 to 5850	Pass
			10	120	5785.000	5725 to 5850	Pass
			30	120	5785.060	5725 to 5850	Pass
			40	120	5785.020	5725 to 5850	Pass
			50	120	5785.080	5725 to 5850	Pass
		5825	20	102	5825.020	5725 to 5850	Pass
				120	5825.060	5725 to 5850	Pass
				138	5825.140	5725 to 5850	Pass
			-30	120	5825.040	5725 to 5850	Pass
			-20	120	5825.040	5725 to 5850	Pass
			-10	120	5825.080	5725 to 5850	Pass
			0	120	5825.040	5725 to 5850	Pass
			10	120	5825.020	5725 to 5850	Pass
			30	120	5825.080	5725 to 5850	Pass
			40	120	5825.060	5725 to 5850	Pass
			50	120	5825.080	5725 to 5850	Pass
802.11ac (VHT40)	SISO	5190	20	102	5190.120	5150 to 5250	Pass
				120	5190.120	5150 to 5250	Pass
				138	5190.160	5150 to 5250	Pass
			-30	120	5190.000	5150 to 5250	Pass

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			-20	120	5190.080	5150 to 5250	Pass
			-10	120	5190.080	5150 to 5250	Pass
			0	120	5190.080	5150 to 5250	Pass
			10	120	5190.080	5150 to 5250	Pass
			30	120	5190.160	5150 to 5250	Pass
			40	120	5190.120	5150 to 5250	Pass
			50	120	5190.120	5150 to 5250	Pass
		5230	20	102	5230.120	5150 to 5250	Pass
				120	5230.080	5150 to 5250	Pass
				138	5230.120	5150 to 5250	Pass
			-30	120	5230.080	5150 to 5250	Pass
			-20	120	5230.080	5150 to 5250	Pass
			-10	120	5230.120	5150 to 5250	Pass
			0	120	5230.040	5150 to 5250	Pass
			10	120	5230.120	5150 to 5250	Pass
			30	120	5230.080	5150 to 5250	Pass
			40	120	5230.080	5150 to 5250	Pass
			50	120	5230.000	5150 to 5250	Pass
		5270	20	102	5270.120	5250 to 5350	Pass
				120	5270.160	5250 to 5350	Pass
				138	5270.080	5250 to 5350	Pass
			-30	120	5270.160	5250 to 5350	Pass
			-20	120	5270.120	5250 to 5350	Pass
			-10	120	5270.200	5250 to 5350	Pass
			0	120	5270.080	5250 to 5350	Pass
			10	120	5270.080	5250 to 5350	Pass
			30	120	5270.160	5250 to 5350	Pass
			40	120	5270.160	5250 to 5350	Pass
			50	120	5270.160	5250 to 5350	Pass
		5310	20	102	5310.120	5250 to 5350	Pass
				120	5310.040	5250 to 5350	Pass
				138	5310.120	5250 to 5350	Pass
			-30	120	5310.120	5250 to 5350	Pass
			-20	120	5310.040	5250 to 5350	Pass
			-10	120	5310.120	5250 to 5350	Pass
			0	120	5310.120	5250 to 5350	Pass
			10	120	5310.120	5250 to 5350	Pass
			30	120	5310.080	5250 to 5350	Pass
			40	120	5310.080	5250 to 5350	Pass
			50	120	5310.040	5250 to 5350	Pass
		5510	20	102	5510.160	5470 to 5725	Pass
				120	5510.120	5470 to 5725	Pass
				138	5510.160	5470 to 5725	Pass
			-30	120	5510.160	5470 to 5725	Pass
			-20	120	5510.160	5470 to 5725	Pass
			-10	120	5510.120	5470 to 5725	Pass
			0	120	5510.080	5470 to 5725	Pass
			10	120	5510.120	5470 to 5725	Pass
			30	120	5510.160	5470 to 5725	Pass
			40	120	5510.080	5470 to 5725	Pass
			50	120	5510.120	5470 to 5725	Pass

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		5550	20	102	5550.120	5470 to 5725	Pass
				120	5550.120	5470 to 5725	Pass
				138	5550.120	5470 to 5725	Pass
			-30	120	5550.120	5470 to 5725	Pass
			-20	120	5550.080	5470 to 5725	Pass
			-10	120	5550.080	5470 to 5725	Pass
			0	120	5550.160	5470 to 5725	Pass
			10	120	5550.120	5470 to 5725	Pass
			30	120	5550.040	5470 to 5725	Pass
			40	120	5550.040	5470 to 5725	Pass
			50	120	5550.120	5470 to 5725	Pass
		5670	20	102	5670.120	5470 to 5725	Pass
				120	5670.120	5470 to 5725	Pass
				138	5670.080	5470 to 5725	Pass
			-30	120	5670.160	5470 to 5725	Pass
			-20	120	5670.080	5470 to 5725	Pass
			-10	120	5670.080	5470 to 5725	Pass
			0	120	5670.120	5470 to 5725	Pass
			10	120	5670.200	5470 to 5725	Pass
			30	120	5670.160	5470 to 5725	Pass
			40	120	5670.200	5470 to 5725	Pass
			50	120	5670.080	5470 to 5725	Pass
		5755	20	102	5755.120	5725 to 5850	Pass
				120	5755.040	5725 to 5850	Pass
				138	5755.080	5725 to 5850	Pass
			-30	120	5755.120	5725 to 5850	Pass
			-20	120	5755.160	5725 to 5850	Pass
			-10	120	5755.120	5725 to 5850	Pass
			0	120	5755.120	5725 to 5850	Pass
			10	120	5755.120	5725 to 5850	Pass
			30	120	5755.160	5725 to 5850	Pass
			40	120	5755.160	5725 to 5850	Pass
			50	120	5755.080	5725 to 5850	Pass
		5795	20	102	5795.080	5725 to 5850	Pass
				120	5795.080	5725 to 5850	Pass
				138	5795.200	5725 to 5850	Pass
			-30	120	5795.120	5725 to 5850	Pass
			-20	120	5795.080	5725 to 5850	Pass
			-10	120	5795.080	5725 to 5850	Pass
			0	120	5795.160	5725 to 5850	Pass
			10	120	5795.160	5725 to 5850	Pass
			30	120	5795.080	5725 to 5850	Pass
			40	120	5795.080	5725 to 5850	Pass
			50	120	5795.080	5725 to 5850	Pass
802.11ac (VHT80)	SISO	5210	20	102	5210.000	5150 to 5250	Pass
				120	5210.150	5150 to 5250	Pass
				138	5210.000	5150 to 5250	Pass
			-30	120	5210.075	5150 to 5250	Pass
			-20	120	5210.075	5150 to 5250	Pass
			-10	120	5210.150	5150 to 5250	Pass
			0	120	5210.075	5150 to 5250	Pass

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			10	120	5210.075	5150 to 5250	Pass
			30	120	5210.075	5150 to 5250	Pass
			40	120	5210.150	5150 to 5250	Pass
			50	120	5210.150	5150 to 5250	Pass
		5290	20	102	5290.075	5250 to 5350	Pass
				120	5290.075	5250 to 5350	Pass
				138	5290.075	5250 to 5350	Pass
			-30	120	5290.075	5250 to 5350	Pass
			-20	120	5290.075	5250 to 5350	Pass
			-10	120	5290.150	5250 to 5350	Pass
			0	120	5290.150	5250 to 5350	Pass
			10	120	5290.150	5250 to 5350	Pass
			30	120	5290.075	5250 to 5350	Pass
			40	120	5290.075	5250 to 5350	Pass
			50	120	5290.150	5250 to 5350	Pass
		5530	20	102	5530.075	5470 to 5725	Pass
				120	5530.075	5470 to 5725	Pass
				138	5530.075	5470 to 5725	Pass
			-30	120	5530.075	5470 to 5725	Pass
			-20	120	5530.150	5470 to 5725	Pass
			-10	120	5530.075	5470 to 5725	Pass
			0	120	5530.150	5470 to 5725	Pass
			10	120	5530.150	5470 to 5725	Pass
			30	120	5530.150	5470 to 5725	Pass
			40	120	5530.150	5470 to 5725	Pass
			50	120	5530.150	5470 to 5725	Pass
		5610	20	102	5610.150	5470 to 5725	Pass
				120	5610.075	5470 to 5725	Pass
				138	5610.075	5470 to 5725	Pass
			-30	120	5610.150	5470 to 5725	Pass
			-20	120	5610.150	5470 to 5725	Pass
			-10	120	5610.150	5470 to 5725	Pass
			0	120	5610.150	5470 to 5725	Pass
			10	120	5610.150	5470 to 5725	Pass
			30	120	5610.150	5470 to 5725	Pass
			40	120	5610.075	5470 to 5725	Pass
			50	120	5610.150	5470 to 5725	Pass
		5775	20	102	5775.225	5725 to 5850	Pass
				120	5775.150	5725 to 5850	Pass
				138	5775.150	5725 to 5850	Pass
			-30	120	5775.150	5725 to 5850	Pass
			-20	120	5775.150	5725 to 5850	Pass
			-10	120	5775.075	5725 to 5850	Pass
			0	120	5775.150	5725 to 5850	Pass
			10	120	5775.150	5725 to 5850	Pass
			30	120	5775.075	5725 to 5850	Pass
			40	120	5775.075	5725 to 5850	Pass
			50	120	5775.150	5725 to 5850	Pass

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