

Appendix B for KSCR220100003202AT-FCC-5G-MT7668

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.392	1.491	93.36	0.30	0.03
		5200	1.391	1.490	93.36	0.30	0.03
		5240	1.392	1.491	93.36	0.30	0.06
		5745	1.392	1.490	93.42	0.30	0.03
		5785	1.391	1.490	93.36	0.30	0.00
		5825	1.391	1.490	93.36	0.30	0.03
802.11n (HT20)	MIMO	5180	1.300	1.399	92.92	0.32	0.00
		5200	1.300	1.398	92.99	0.32	0.03
		5240	1.300	1.398	92.99	0.32	0.00
		5745	1.300	1.398	92.99	0.32	0.00
		5785	1.300	1.398	92.99	0.32	0.00
		5825	1.300	1.398	92.99	0.32	0.06
802.11n (HT40)	MIMO	5190	0.648	0.746	86.86	0.61	0.03
		5230	0.648	0.746	86.86	0.61	0.04
		5755	0.648	0.746	86.86	0.61	0.04
		5795	0.648	0.746	86.86	0.61	0.03
802.11ac (VHT20)	MIMO	5180	1.312	1.410	93.05	0.31	0.00
		5200	1.312	1.410	93.05	0.31	0.00
		5240	1.311	1.410	92.98	0.32	0.03
		5745	1.312	1.410	93.05	0.31	0.00
		5785	1.312	1.410	93.05	0.31	0.03
		5825	1.312	1.411	92.98	0.32	0.00
802.11ac (VHT40)	MIMO	5190	0.652	0.750	86.93	0.61	0.04
		5230	0.652	0.750	86.93	0.61	0.03
		5755	0.652	0.750	86.93	0.61	0.03
		5795	0.652	0.750	86.93	0.61	0.03
802.11ac (VHT80)	MIMO	5210	0.324	0.422	76.78	1.15	0.06
		5775	0.324	0.422	76.78	1.15	0.09

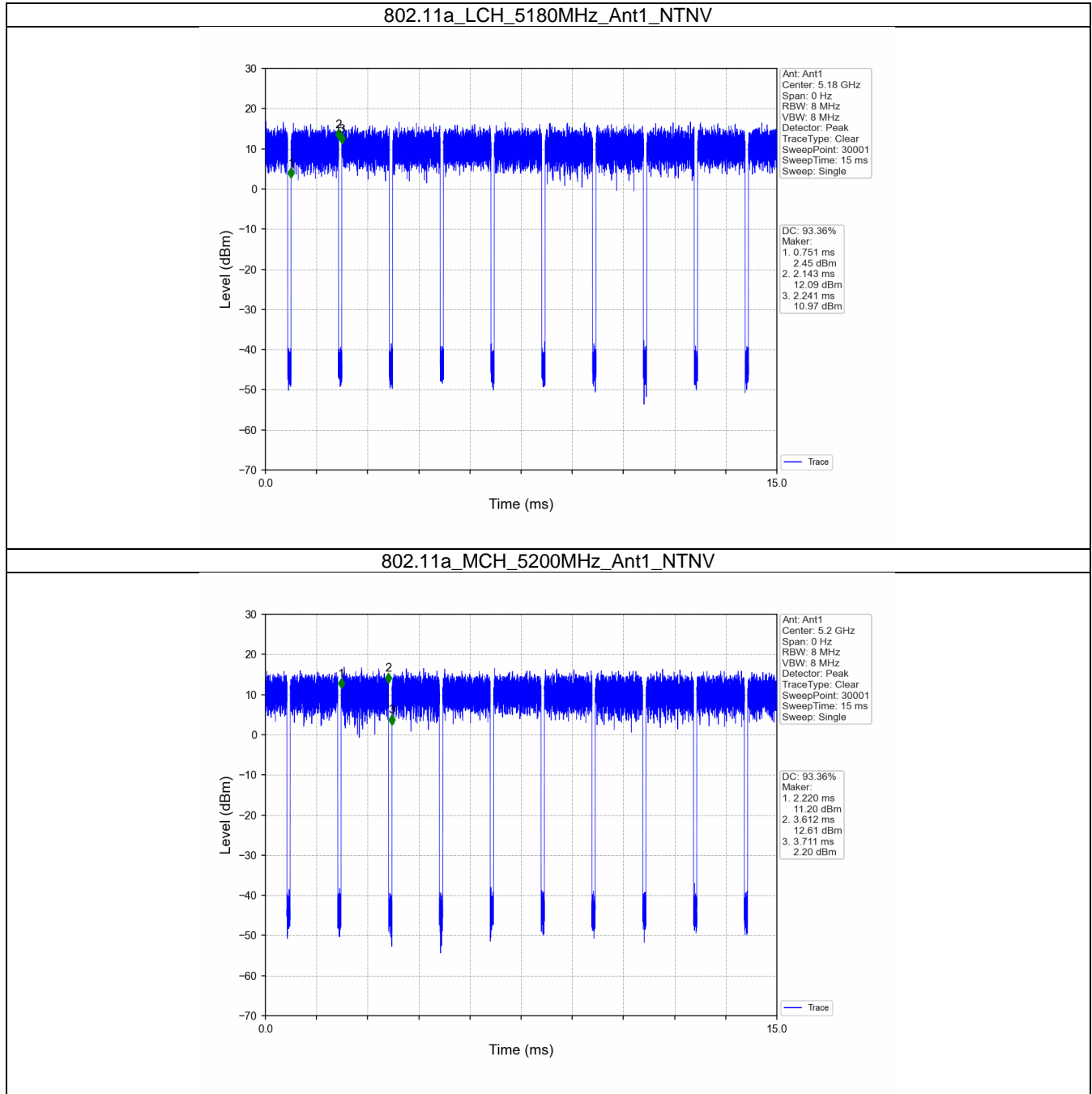


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1.1.2 Test Graph



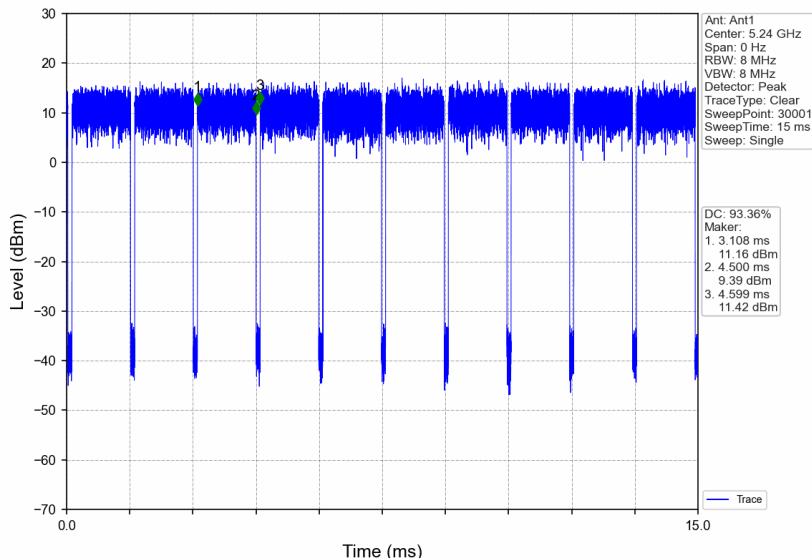
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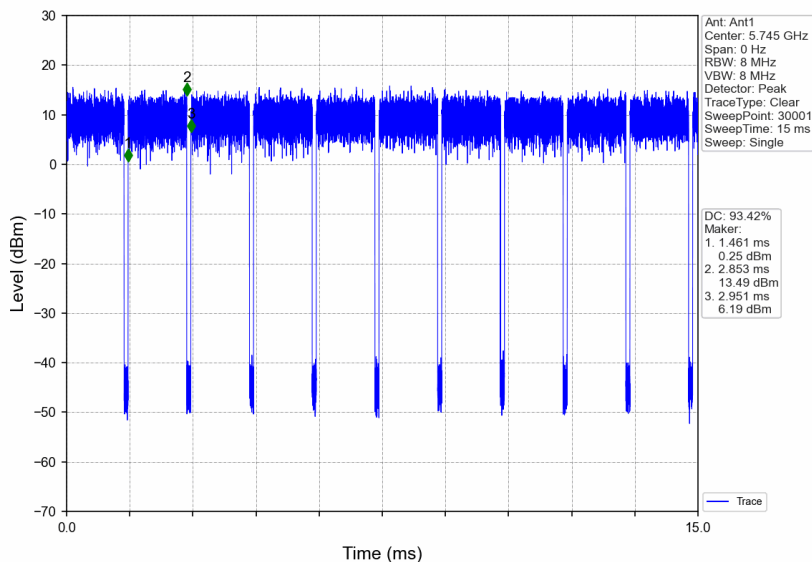
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant1_NTNV

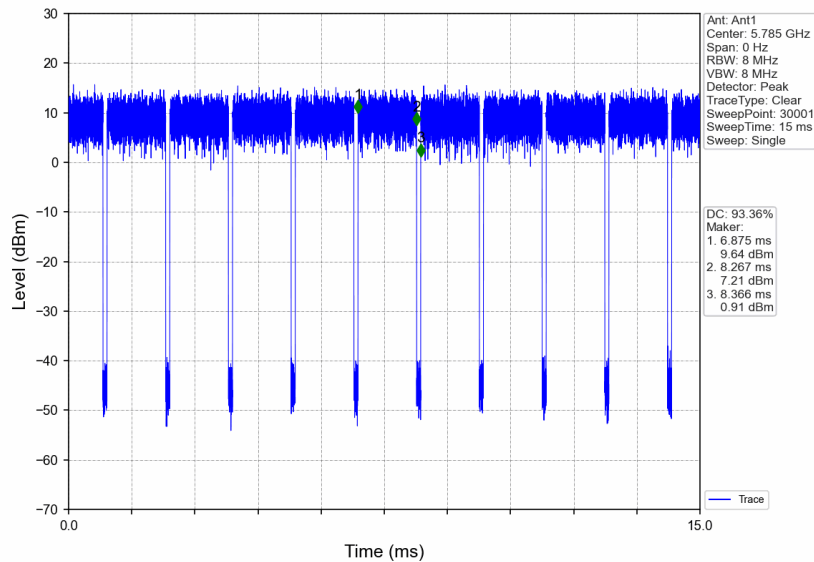


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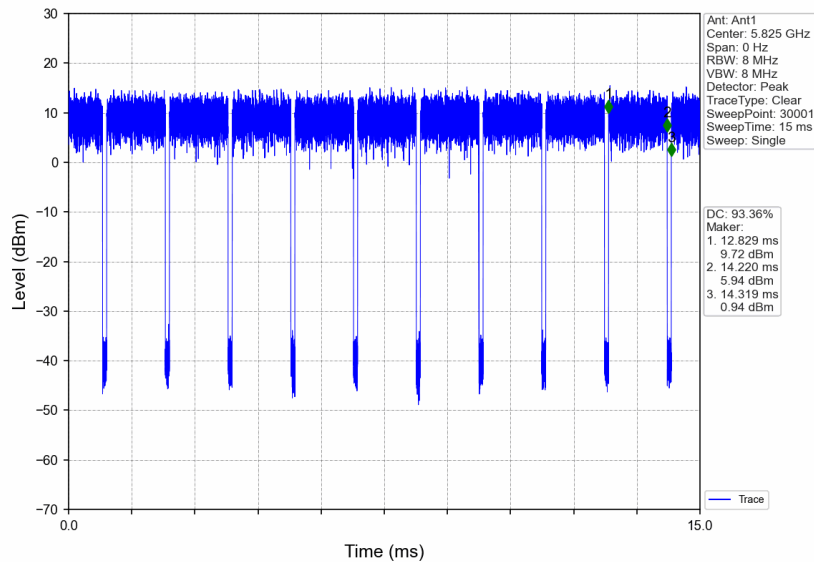
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant1_NTNV

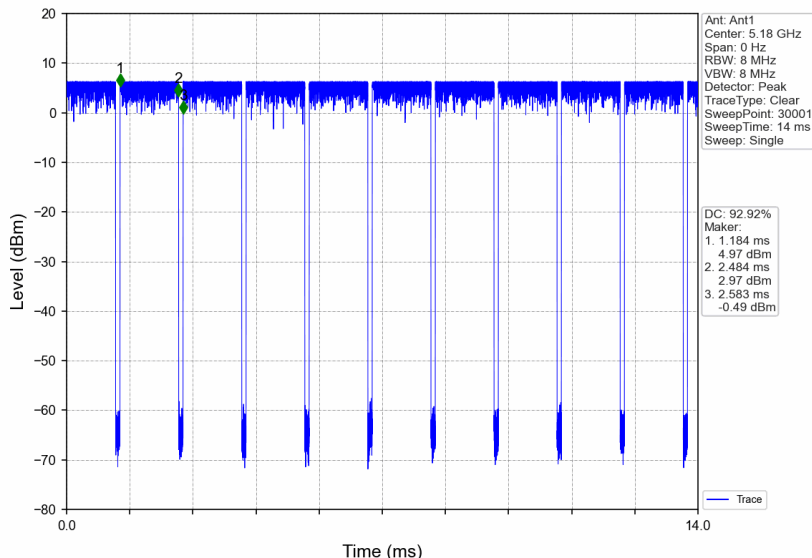


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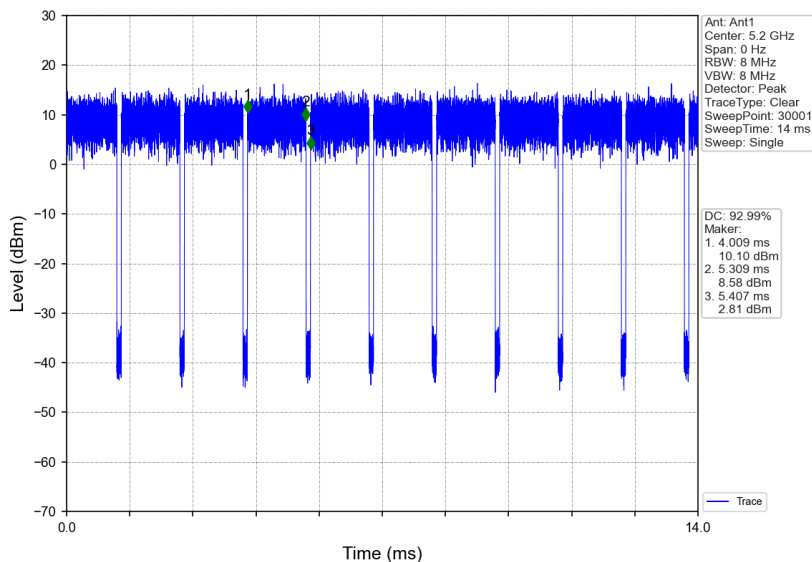
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



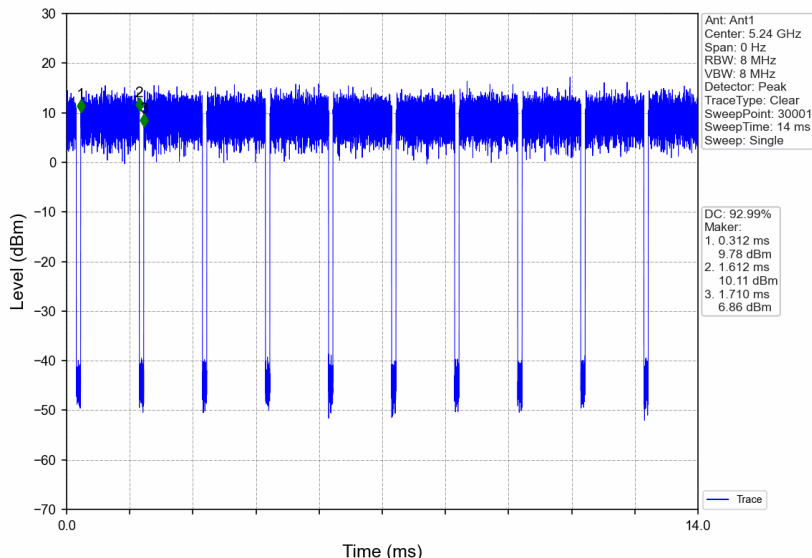
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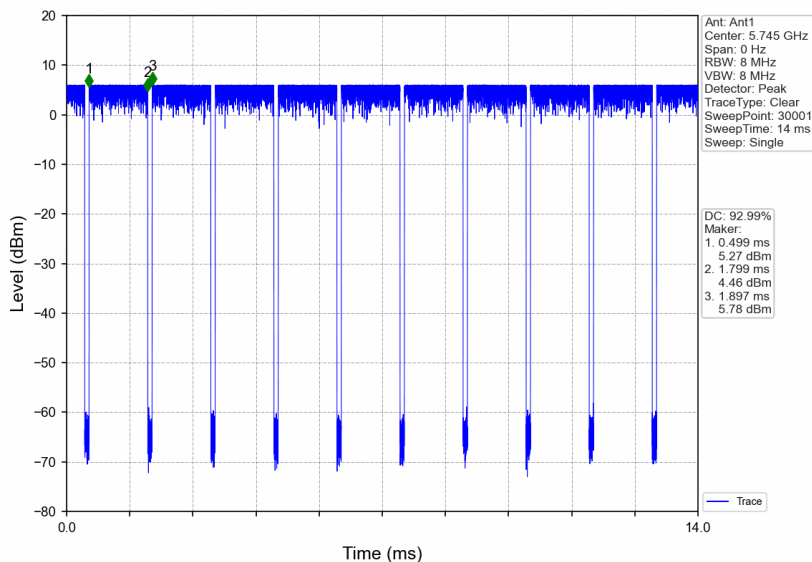
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



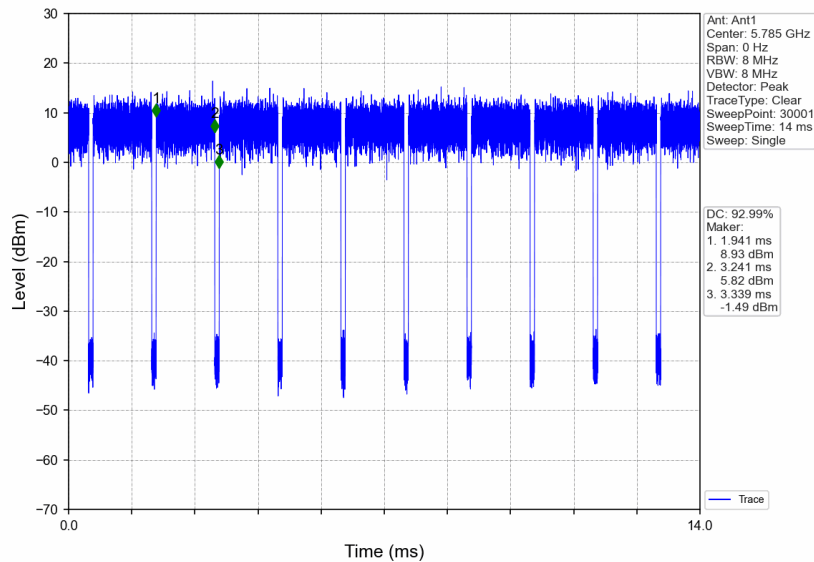
802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



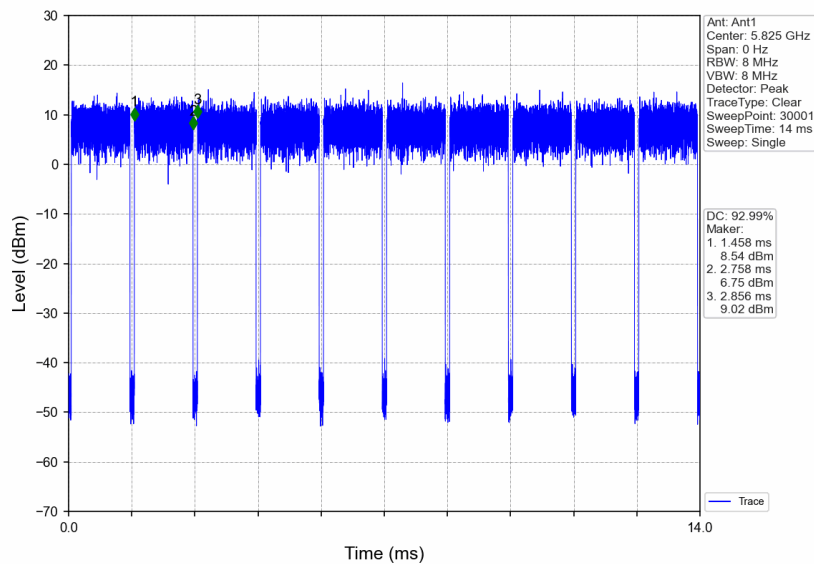
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV

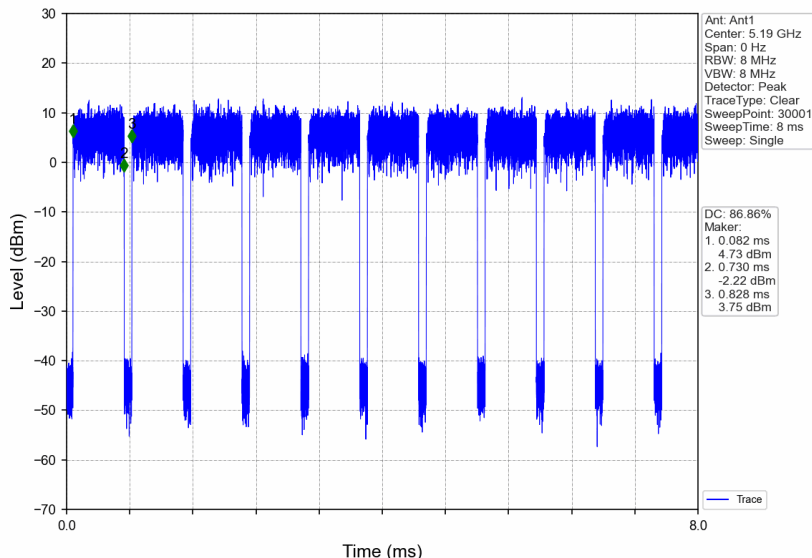


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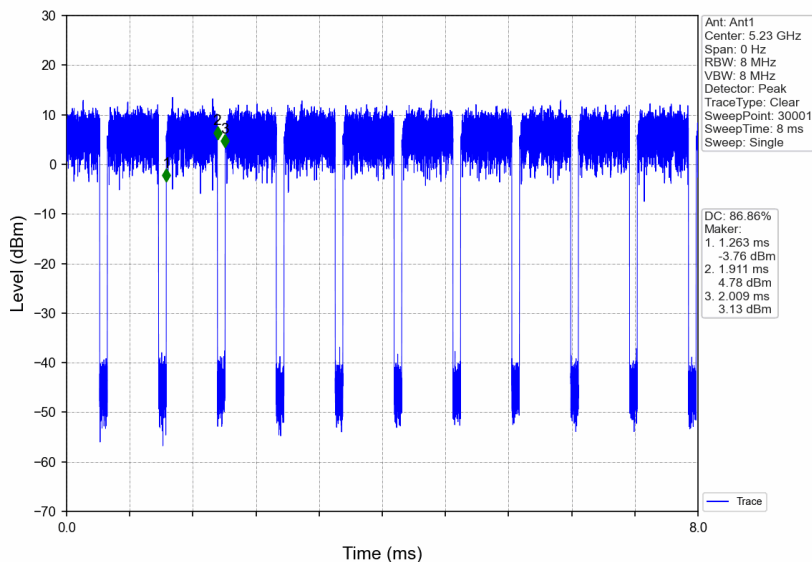
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



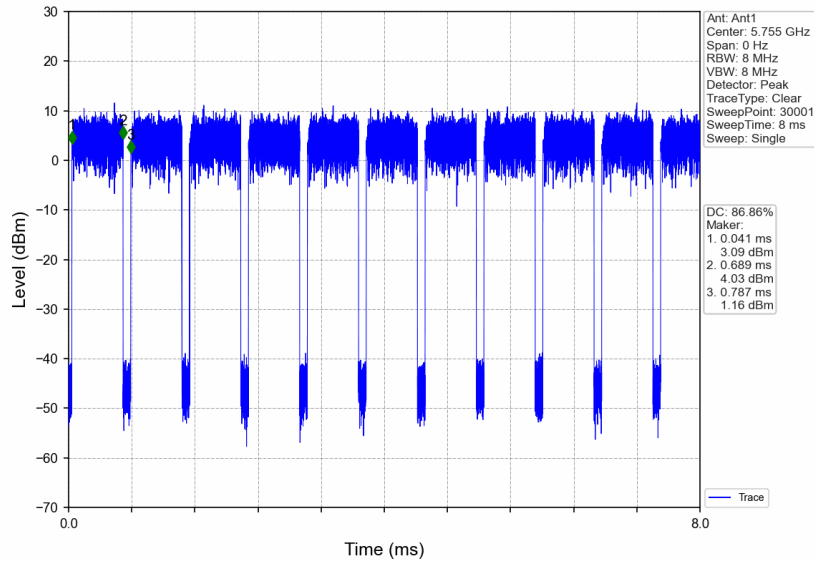
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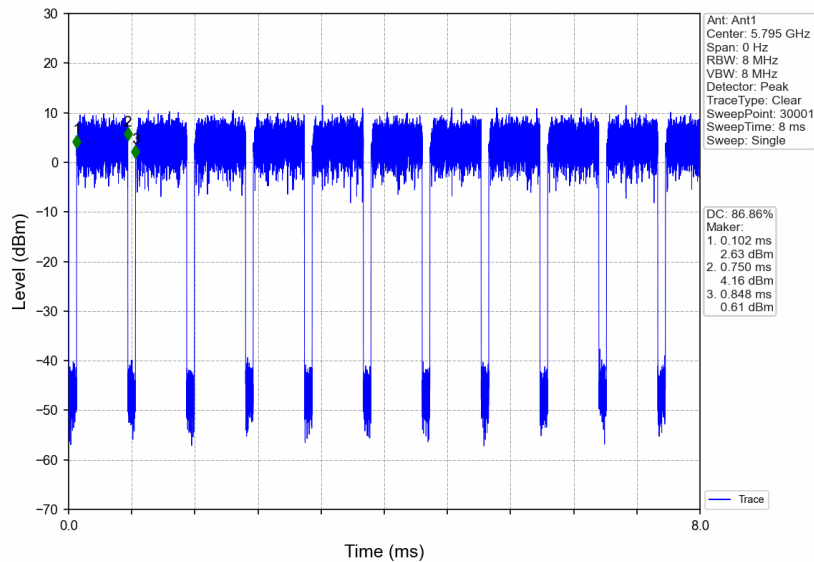
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_HCH_5795MHz_Ant1_NTNV

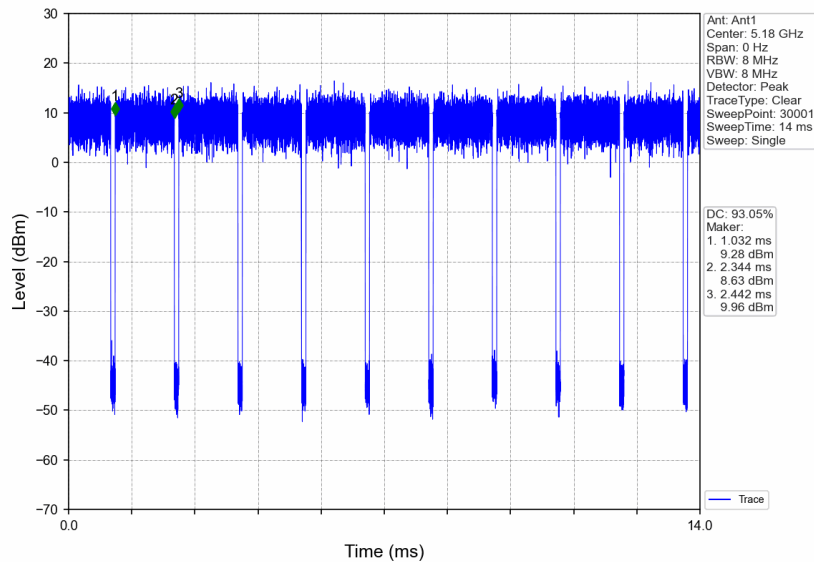


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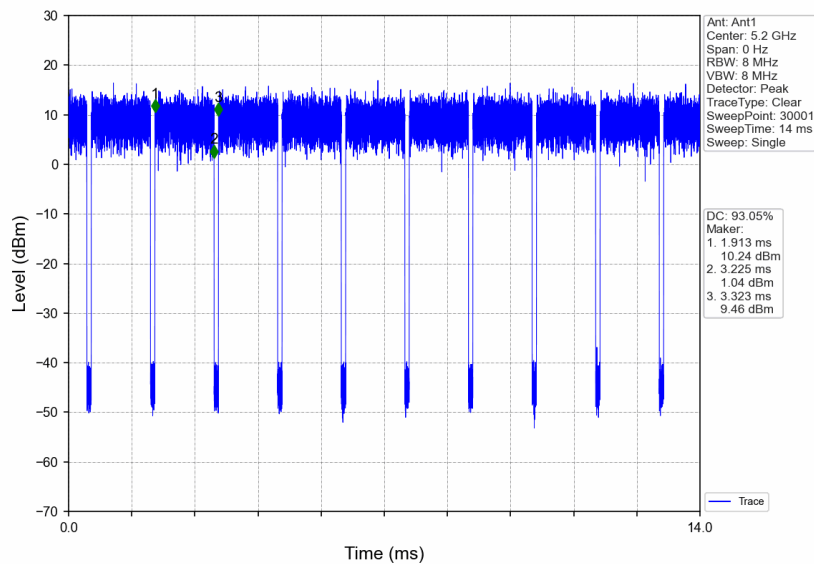
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



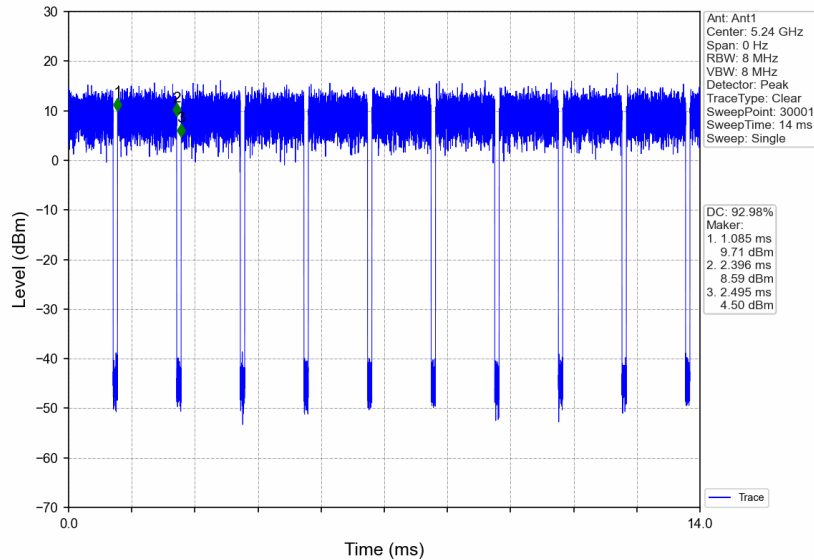
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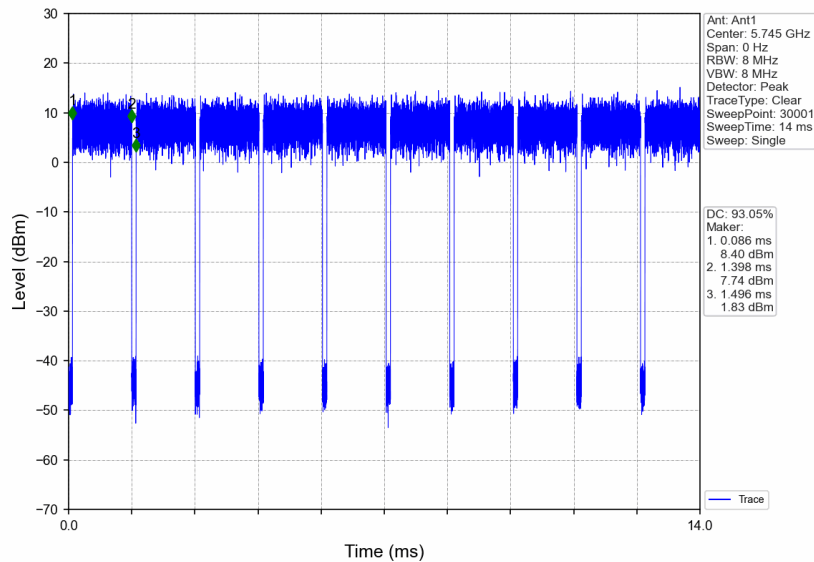
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



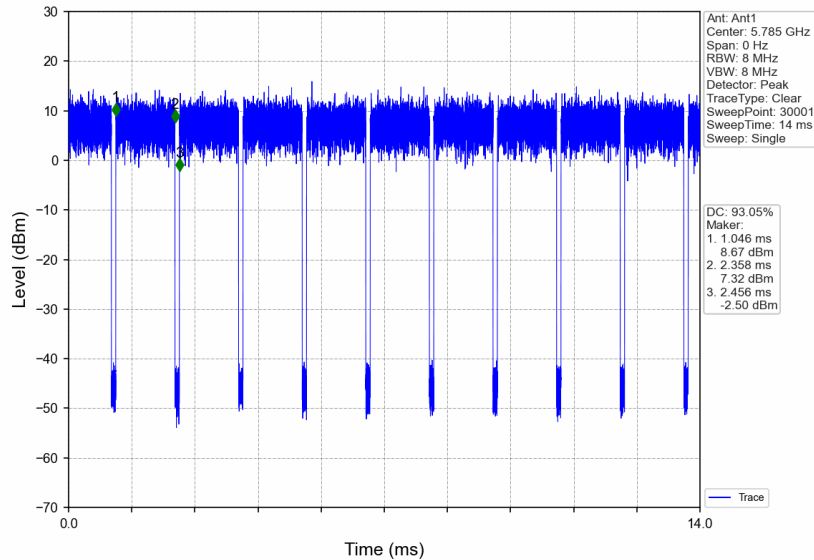
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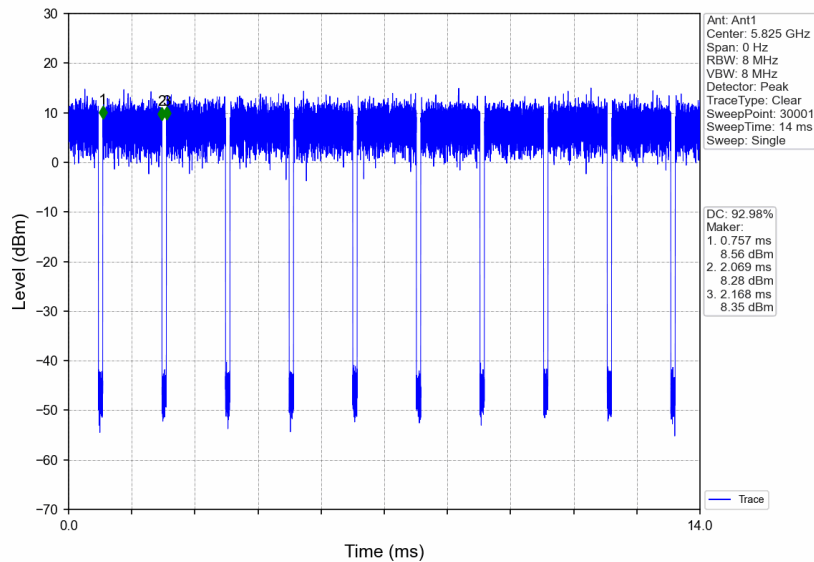
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802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



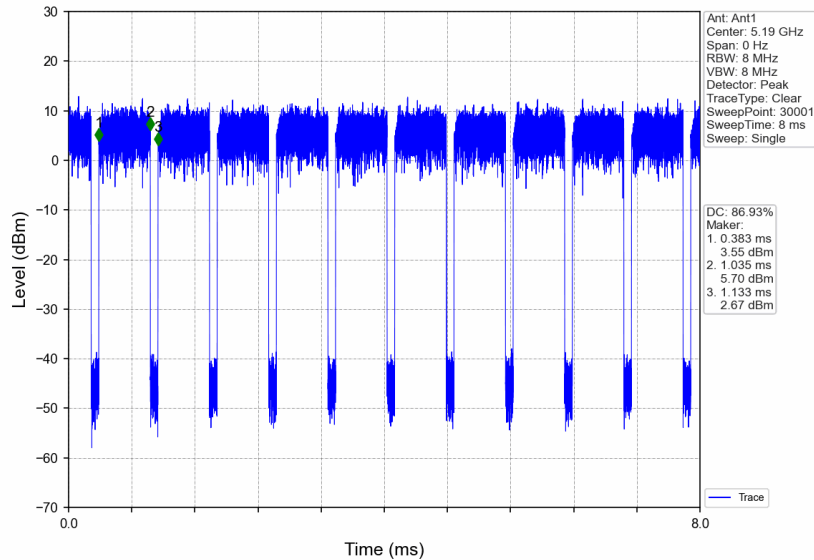
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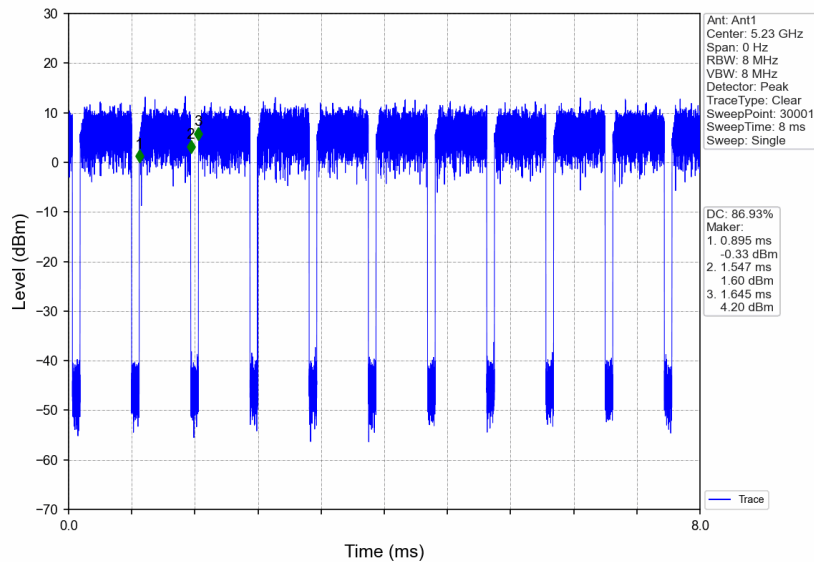
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

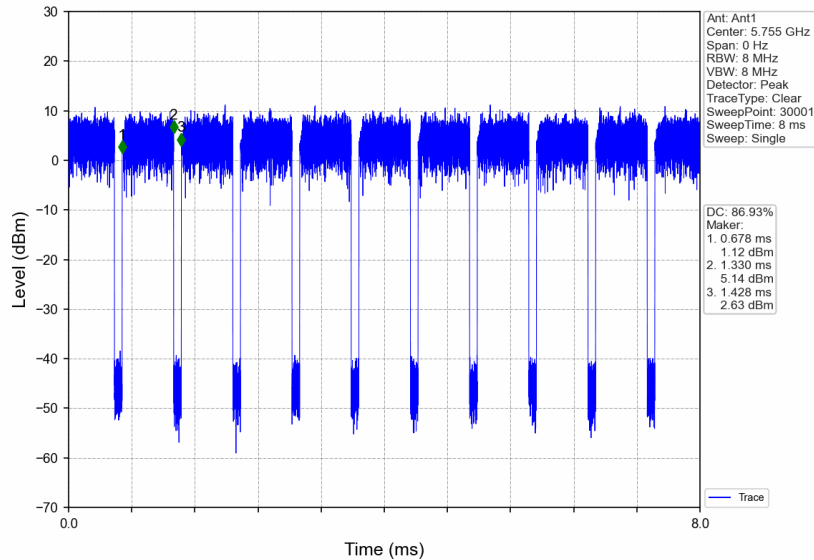


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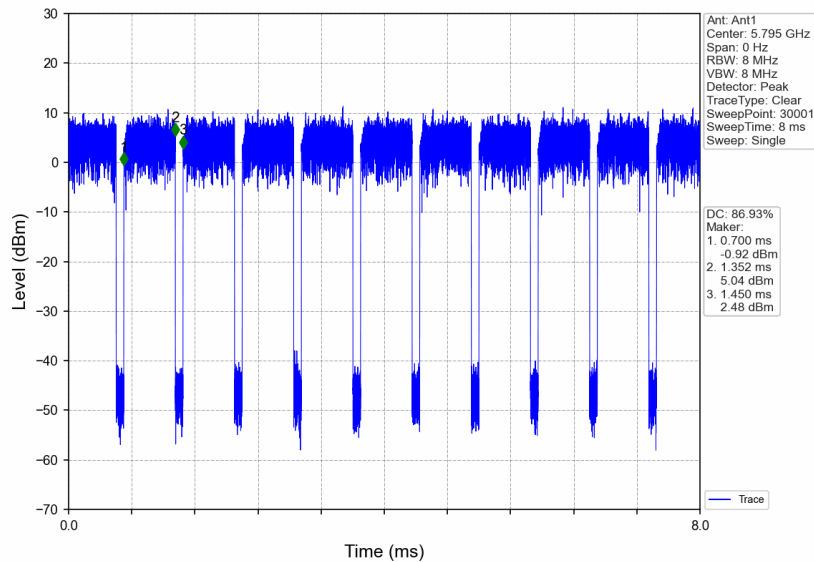
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV

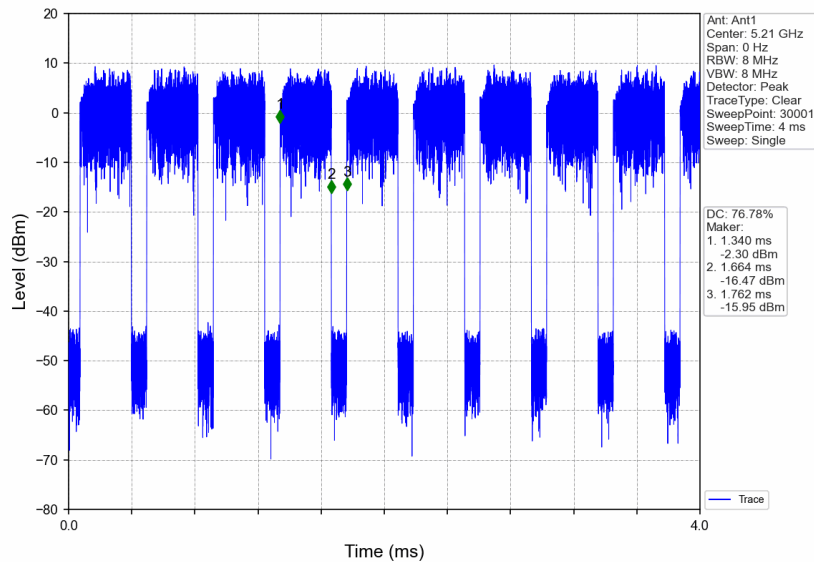


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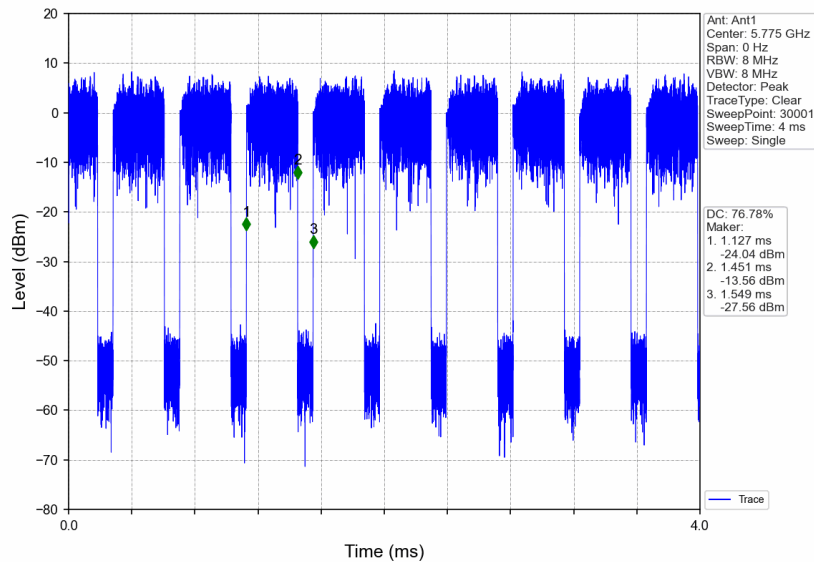
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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)	Verdict
				Result	
802.11a	SISO	5180	1	17.242	Pass
			2	17.260	Pass
		5200	1	17.226	Pass
			2	17.335	Pass
		5240	1	17.292	Pass
			2	17.222	Pass
		5745	1	17.219	Pass
			2	17.326	Pass
		5785	1	17.255	Pass
			2	17.255	Pass
		5825	1	17.290	Pass
			2	17.332	Pass
802.11n (HT20)	MIMO	5180	1	18.092	Pass
			2	18.050	Pass
		5200	1	18.078	Pass
			2	18.046	Pass
		5240	1	18.054	Pass
			2	18.091	Pass
		5745	1	18.119	Pass
			2	18.126	Pass
		5785	1	18.108	Pass
			2	18.125	Pass
		5825	1	18.101	Pass
			2	18.099	Pass
802.11n (HT40)	MIMO	5190	1	36.610	Pass
			2	36.433	Pass
		5230	1	36.637	Pass
			2	36.505	Pass
		5755	1	36.488	Pass
			2	36.565	Pass
		5795	1	36.498	Pass
			2	36.588	Pass
802.11ac (VHT20)	MIMO	5180	1	18.021	Pass
			2	18.048	Pass
		5200	1	18.073	Pass
			2	18.029	Pass
		5240	1	18.039	Pass
			2	17.945	Pass
		5745	1	18.033	Pass
			2	18.059	Pass



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		5785	1	18.088	Pass
			2	18.050	Pass
		5825	1	18.049	Pass
			2	18.031	Pass
802.11ac (VHT40)	MIMO	5190	1	36.430	Pass
			2	36.363	Pass
		5230	1	36.431	Pass
			2	36.385	Pass
		5755	1	36.414	Pass
			2	36.475	Pass
		5795	1	36.394	Pass
			2	36.424	Pass
802.11ac (VHT80)	MIMO	5210	1	76.455	Pass
			2	76.471	Pass
		5775	1	76.483	Pass
			2	76.463	Pass



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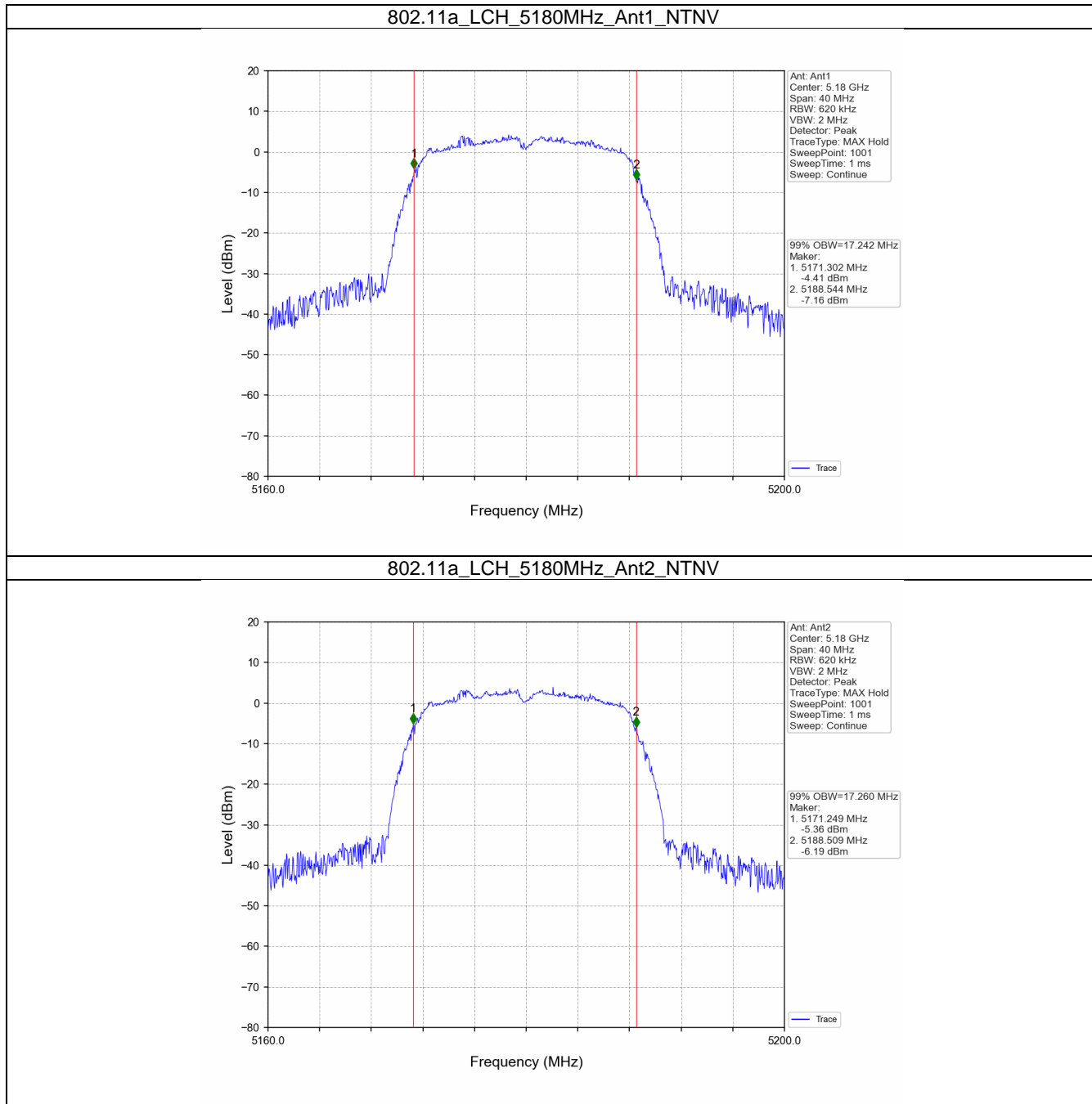
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2.1.2 Test Graph



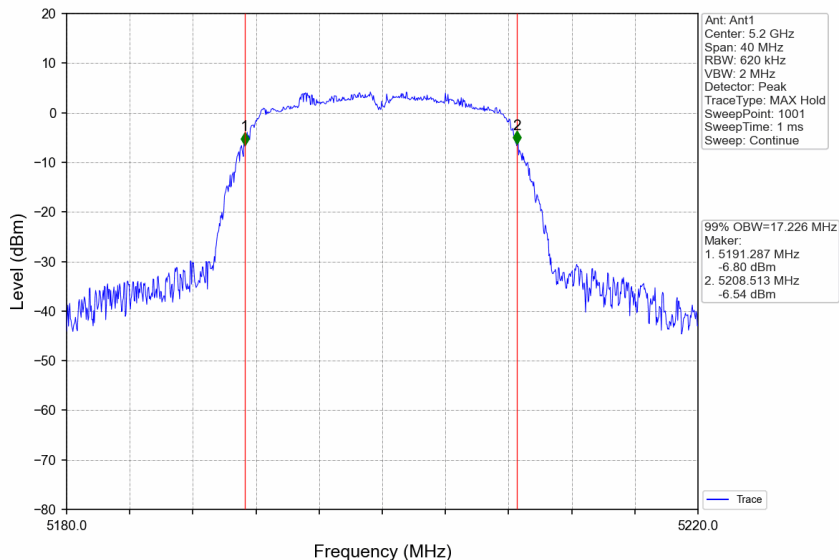
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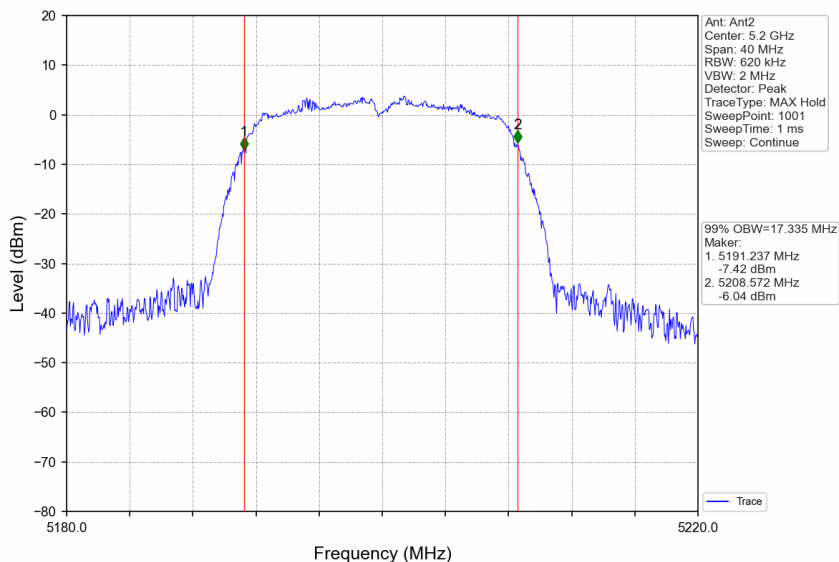
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802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant2_NTNV

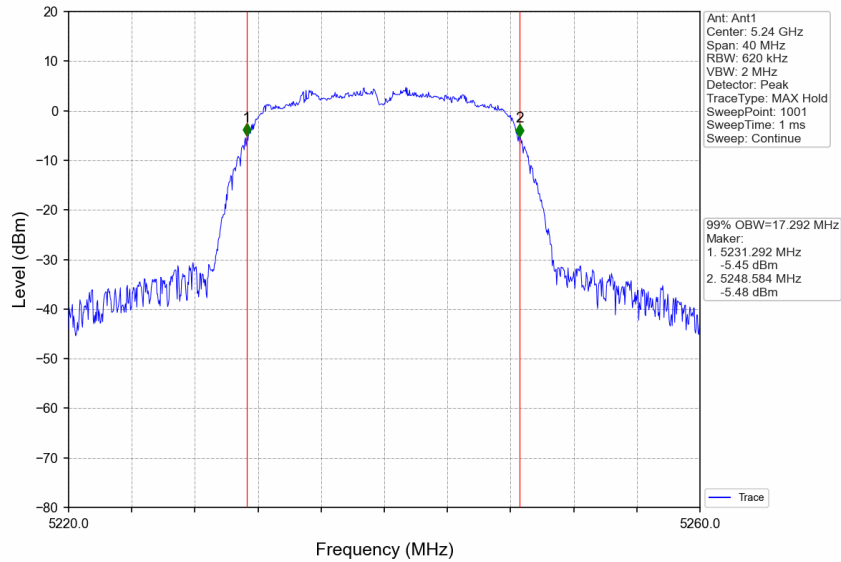


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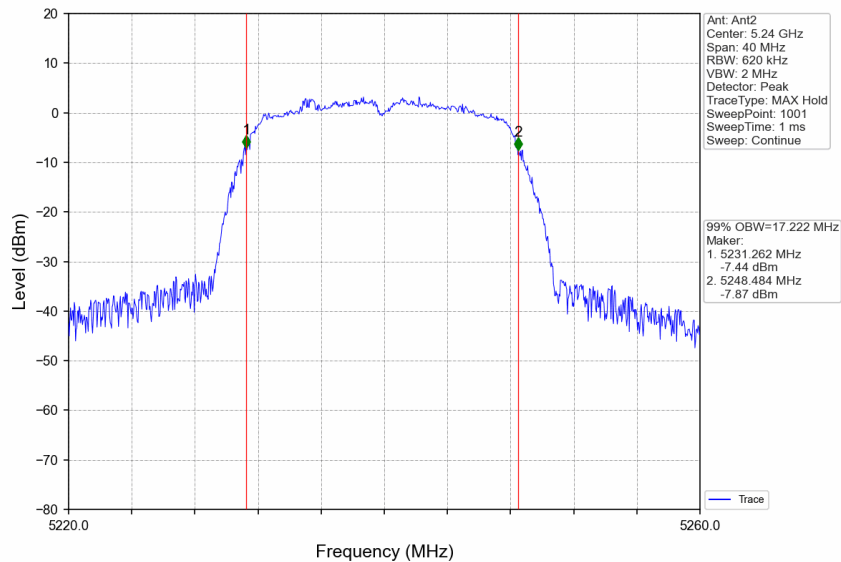
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant2_NTNV



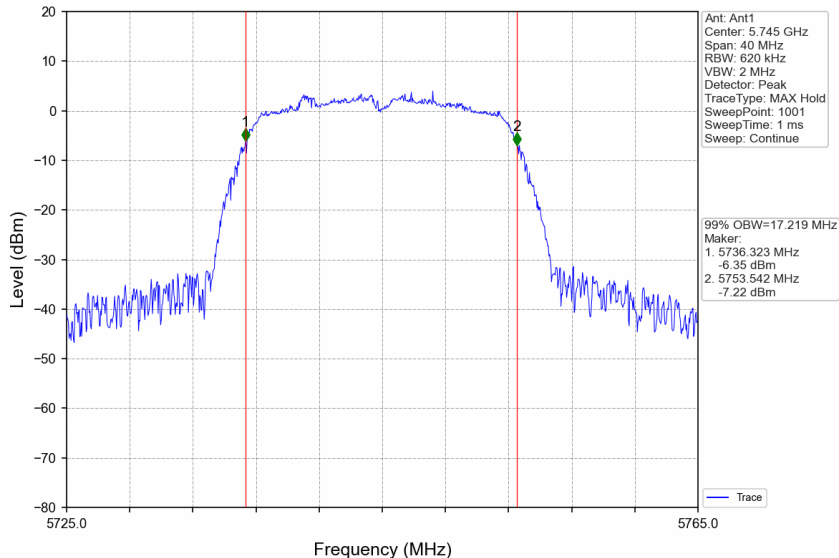
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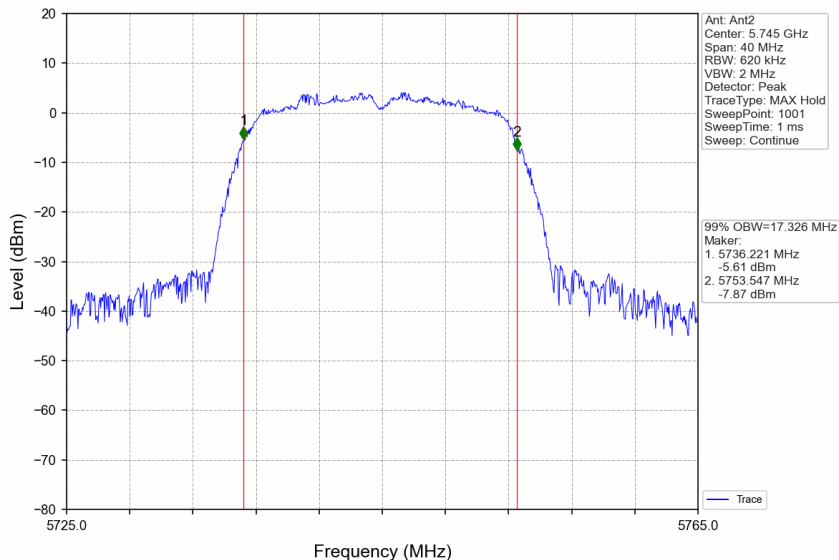
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802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_LCH_5745MHz_Ant2_NTNV



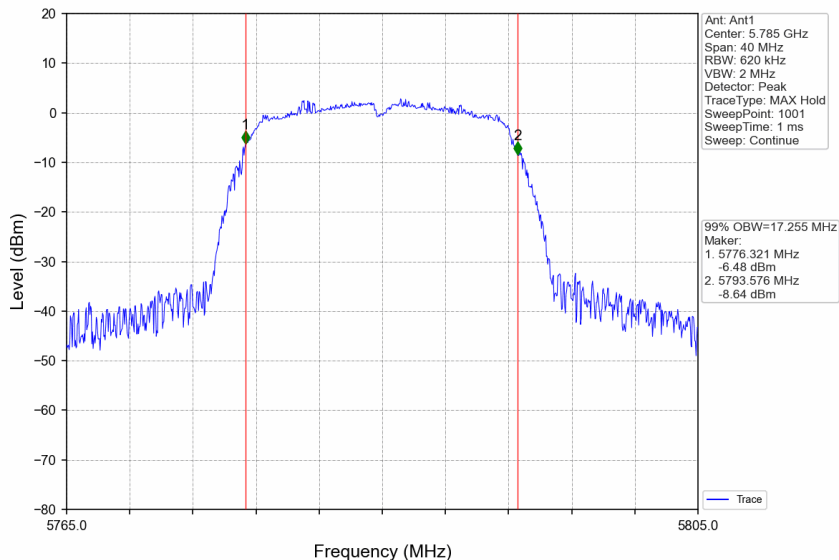
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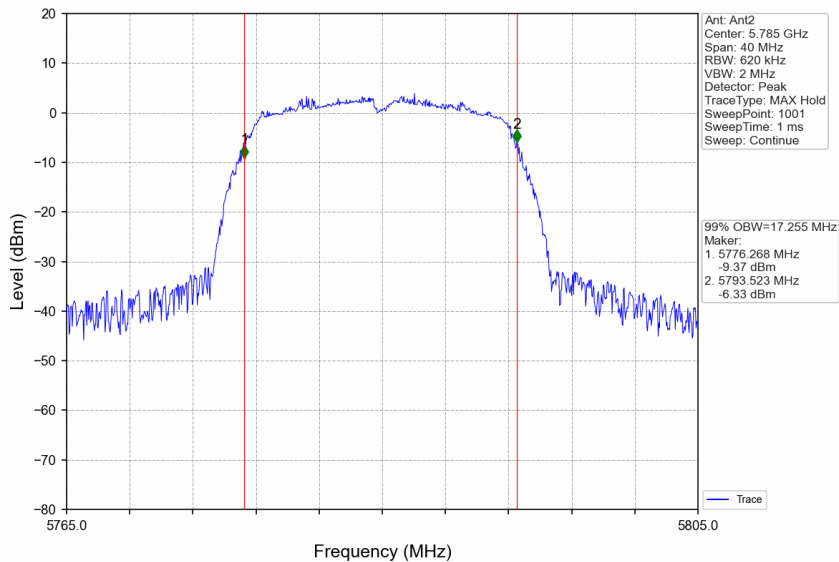
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant2_NTNV

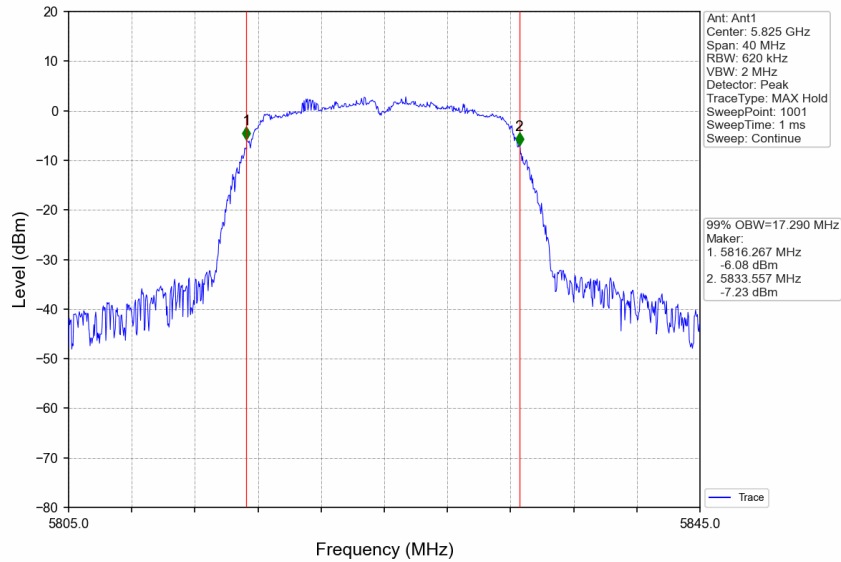


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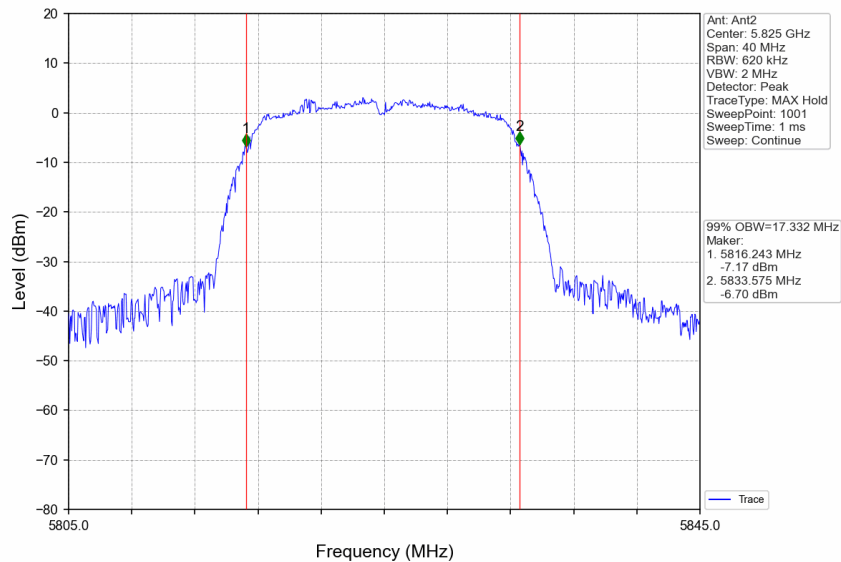
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant2_NTNV



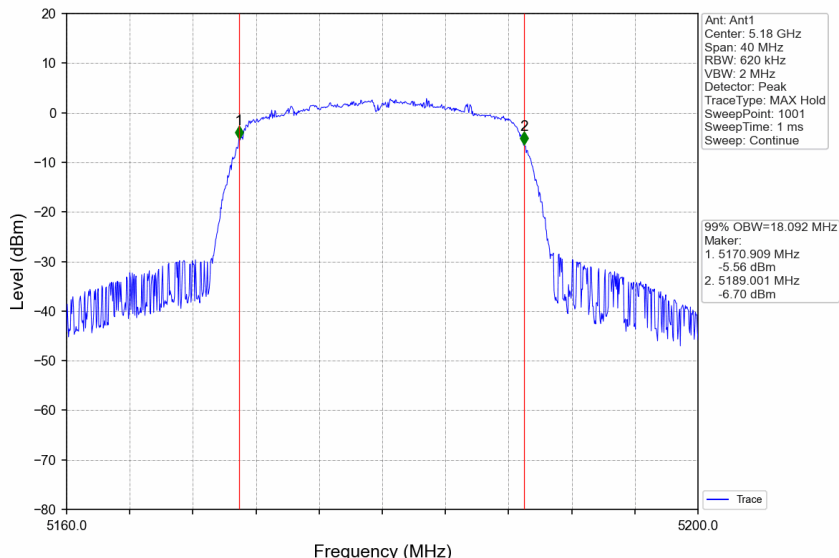
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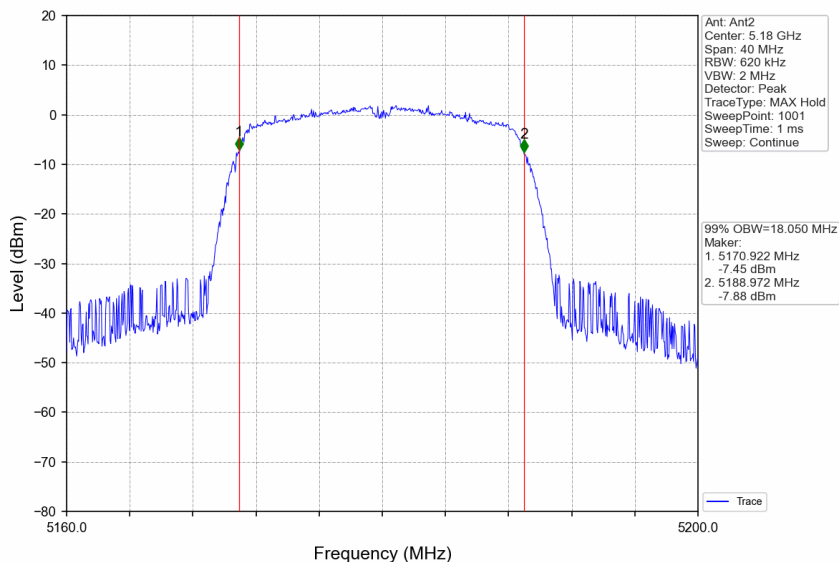
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant2_NTNV

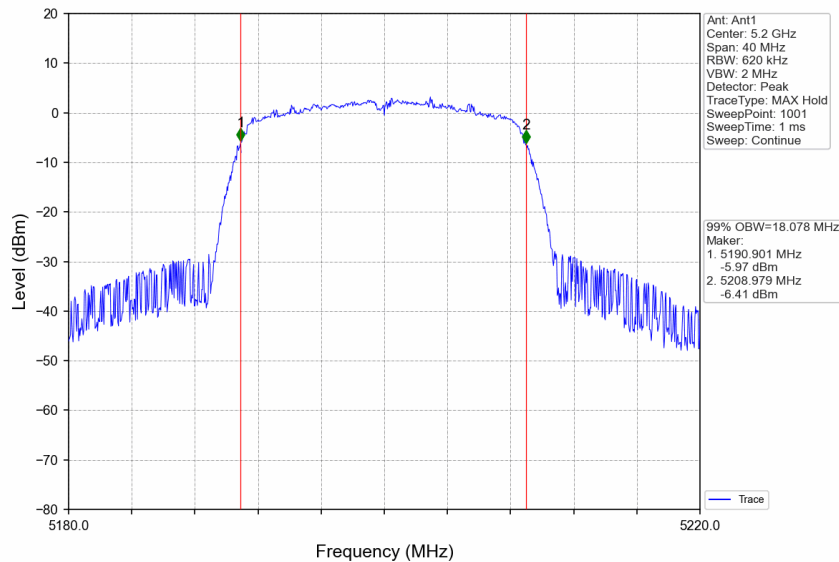


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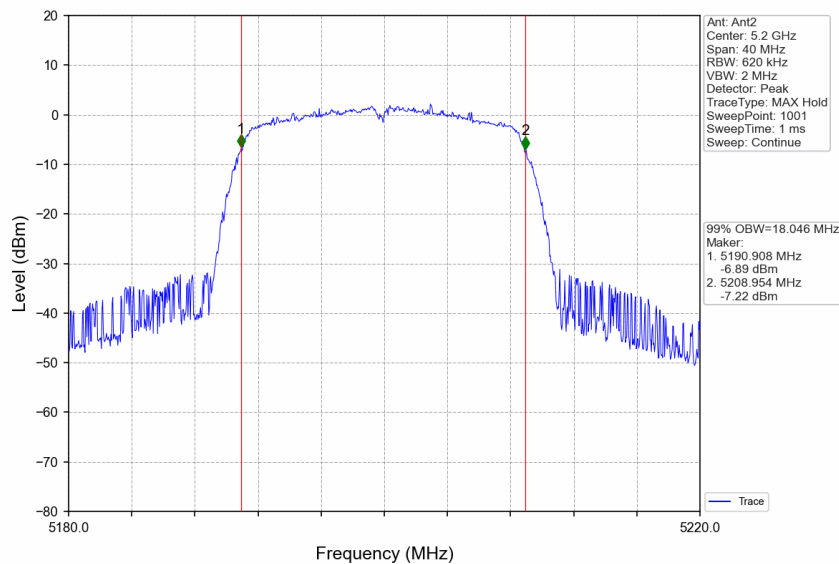
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



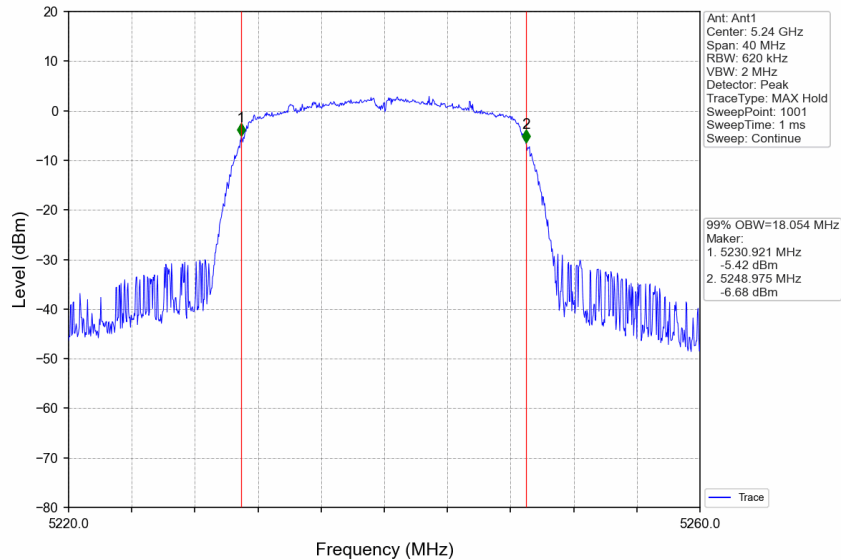
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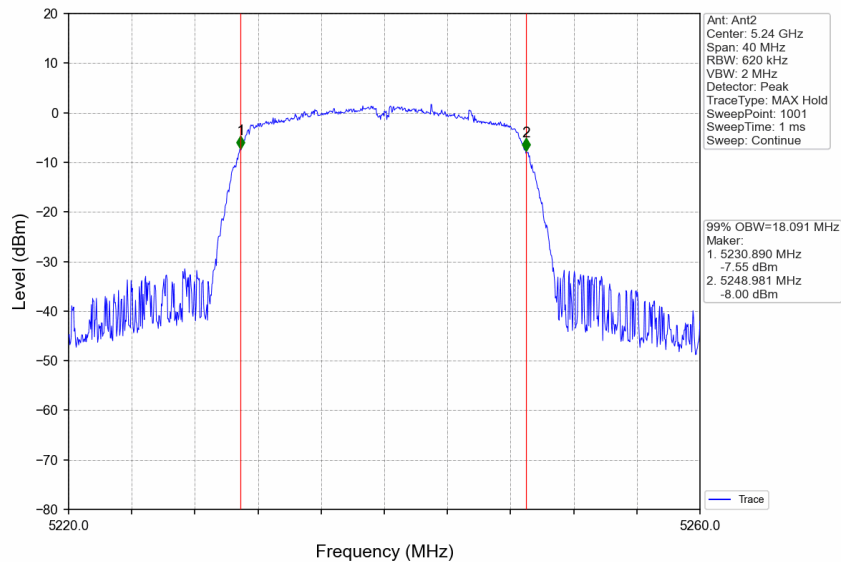
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



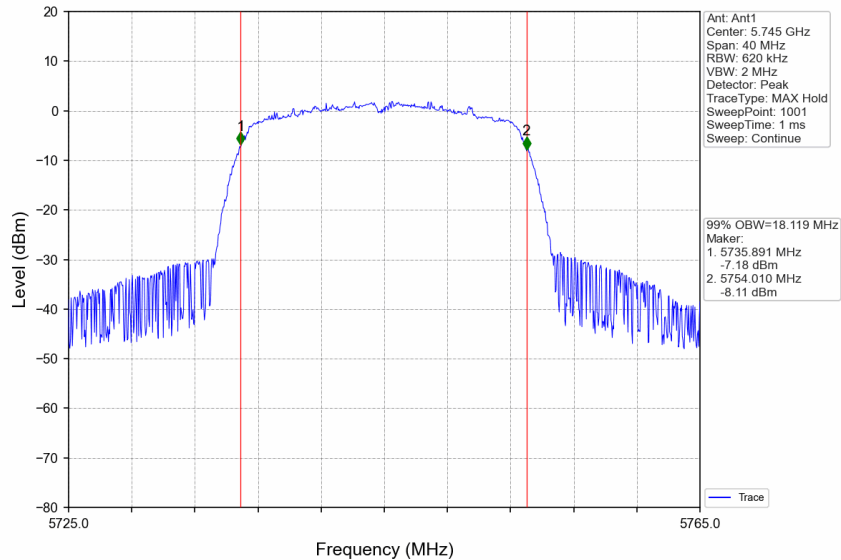
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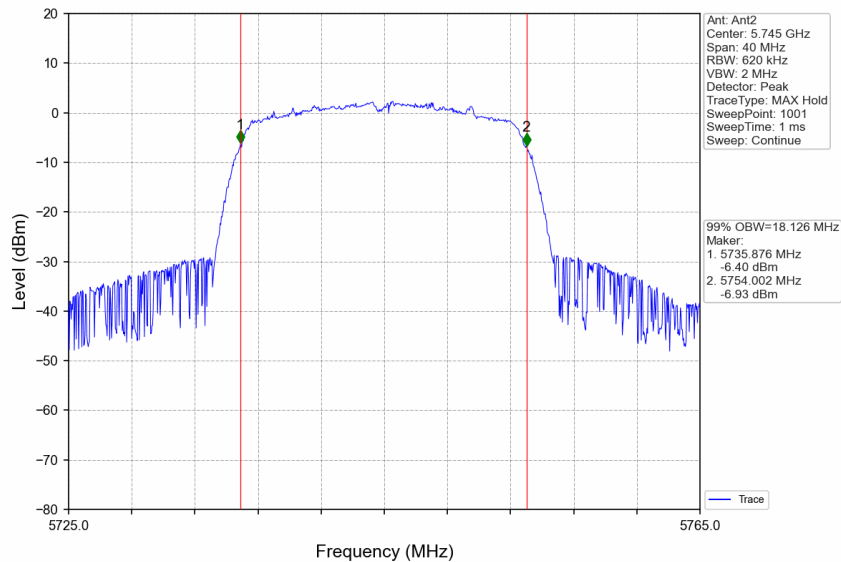
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802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



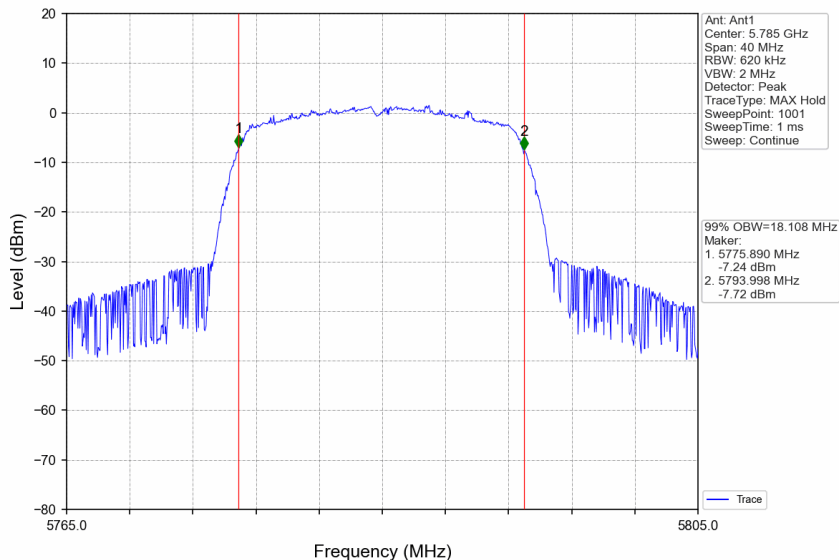
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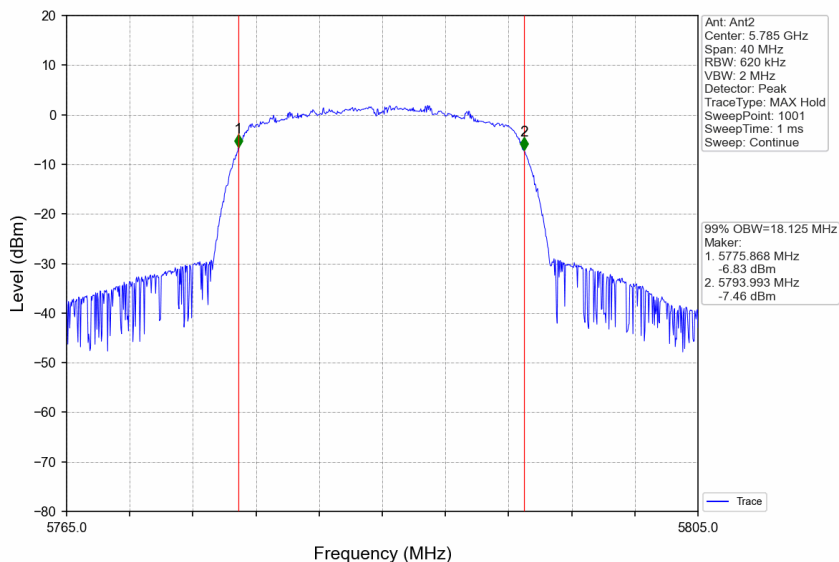
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_MCH_5785MHz_Ant2_NTNV



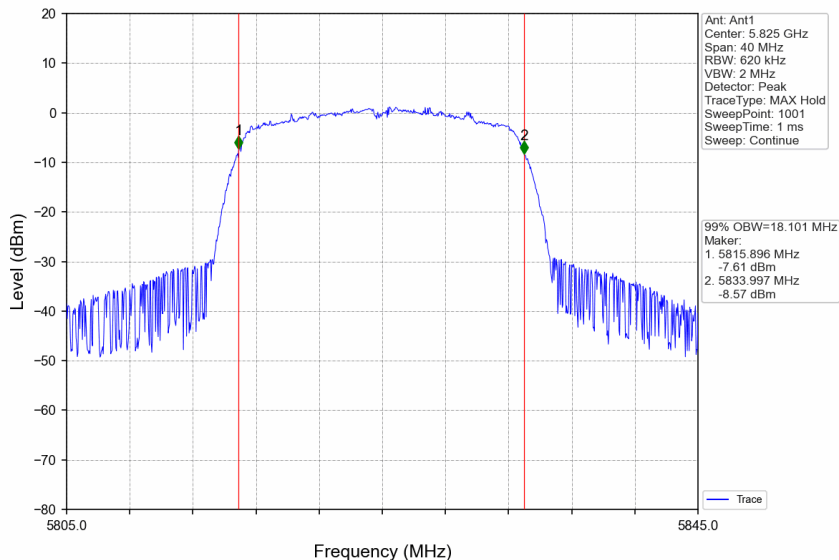
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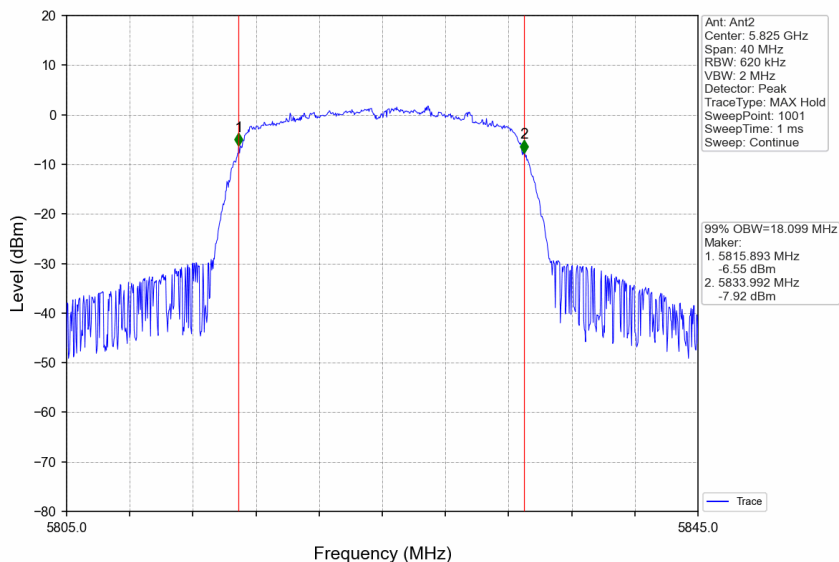
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802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant2_NTNV



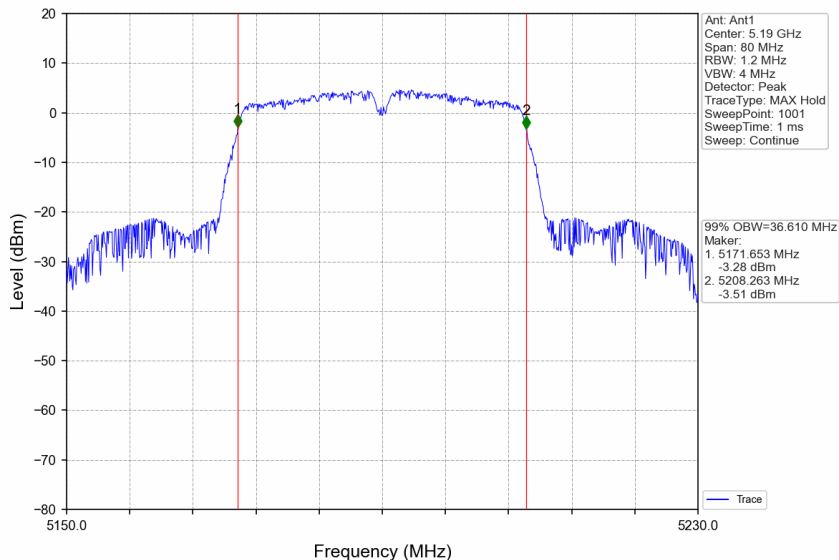
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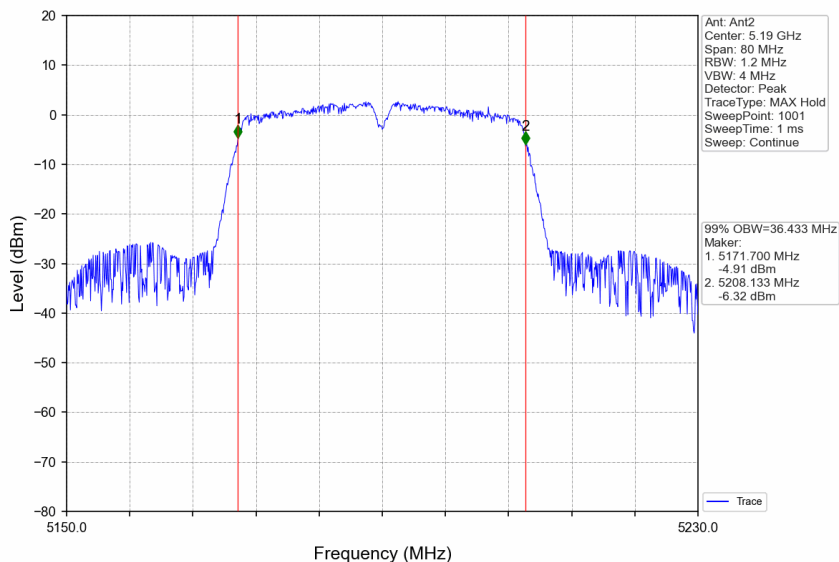
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV



802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



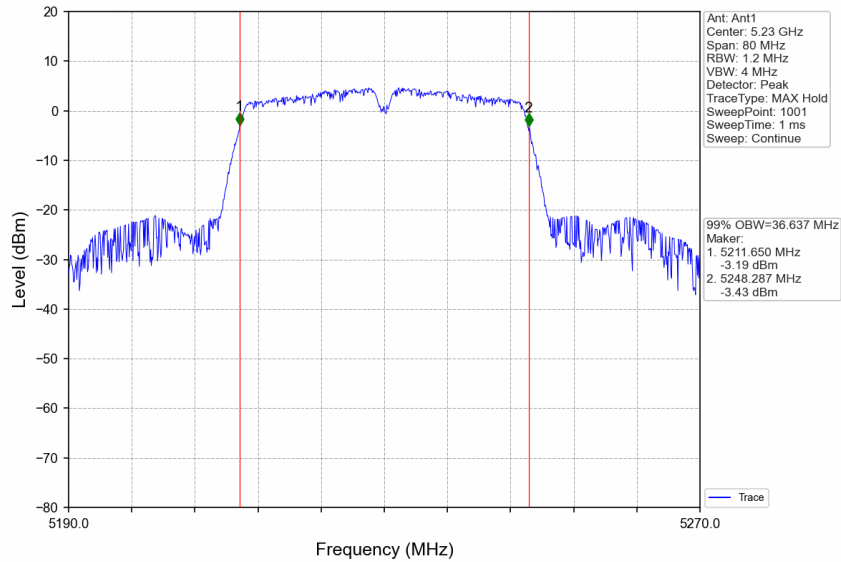
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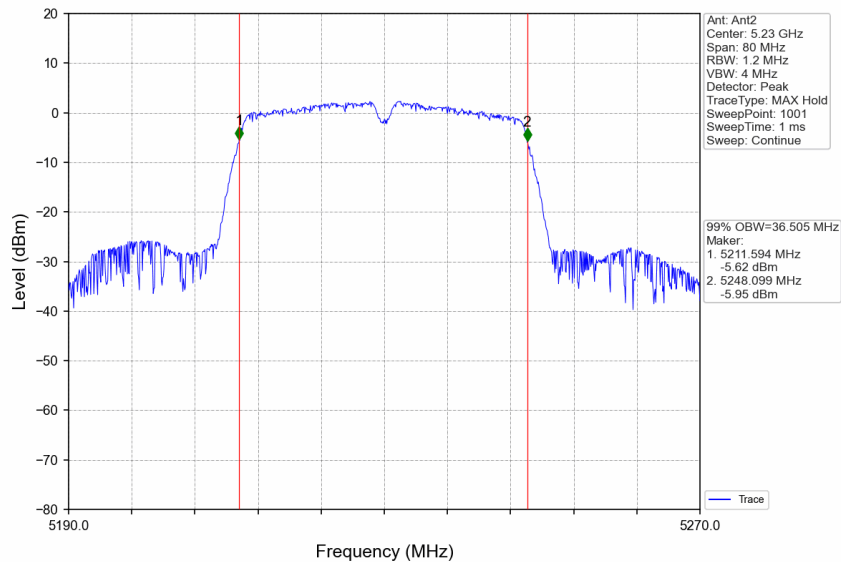
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802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



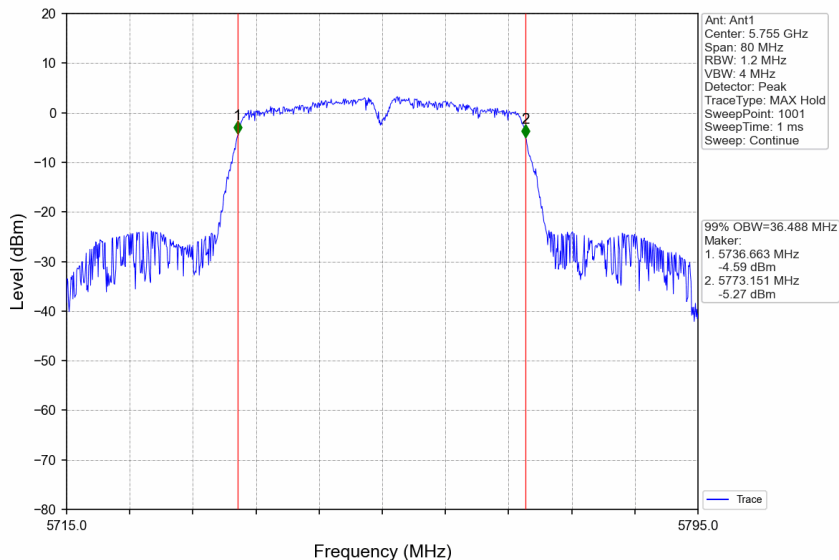
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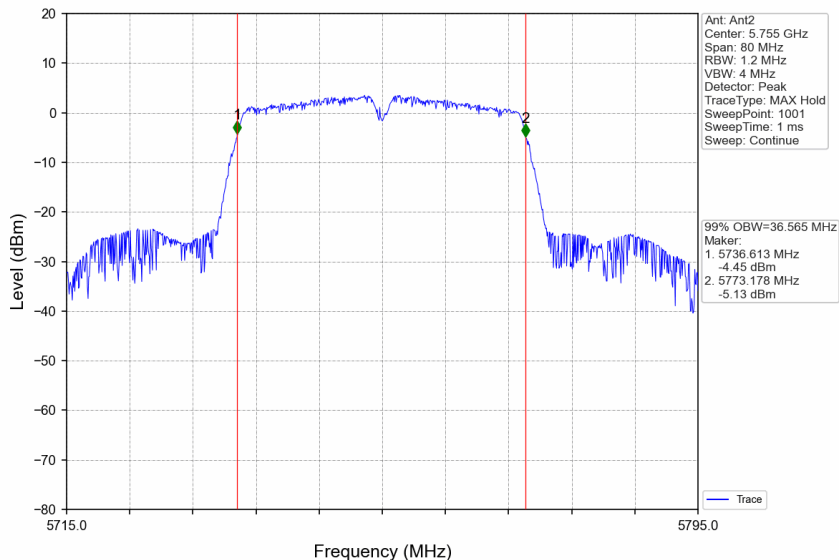
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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



802.11n(HT40)_LCH_5755MHz_Ant2_NTNV



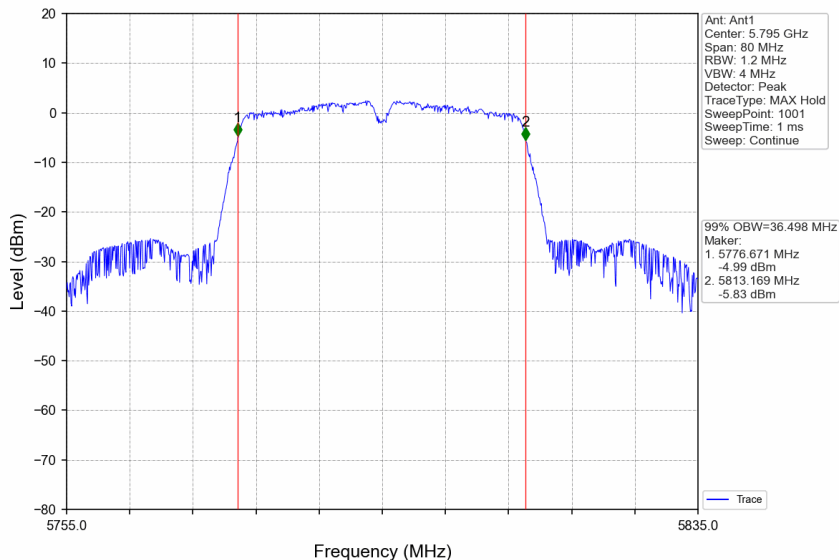
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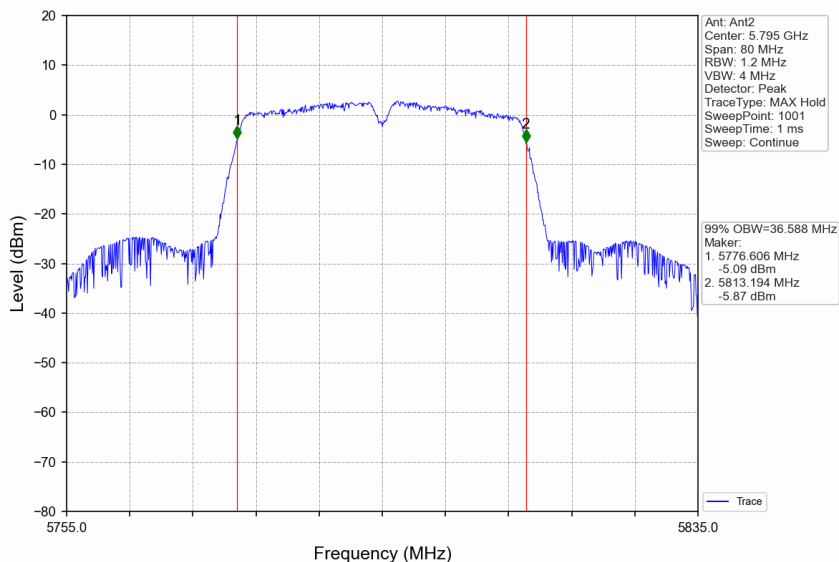
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802.11n(HT40)_HCH_5795MHz_Ant1_NTNV



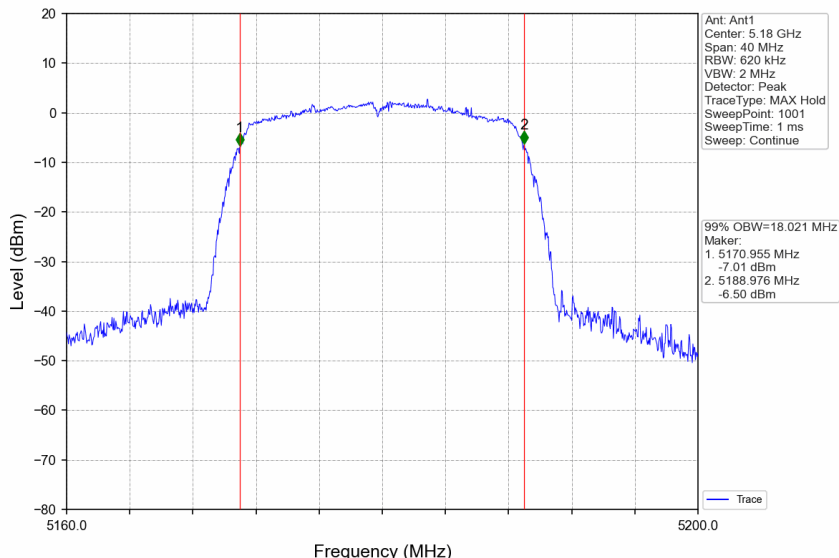
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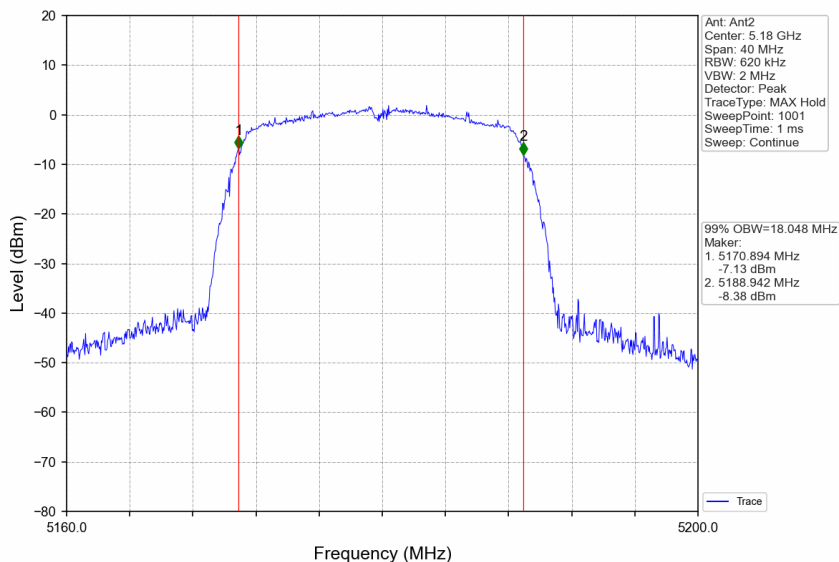
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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



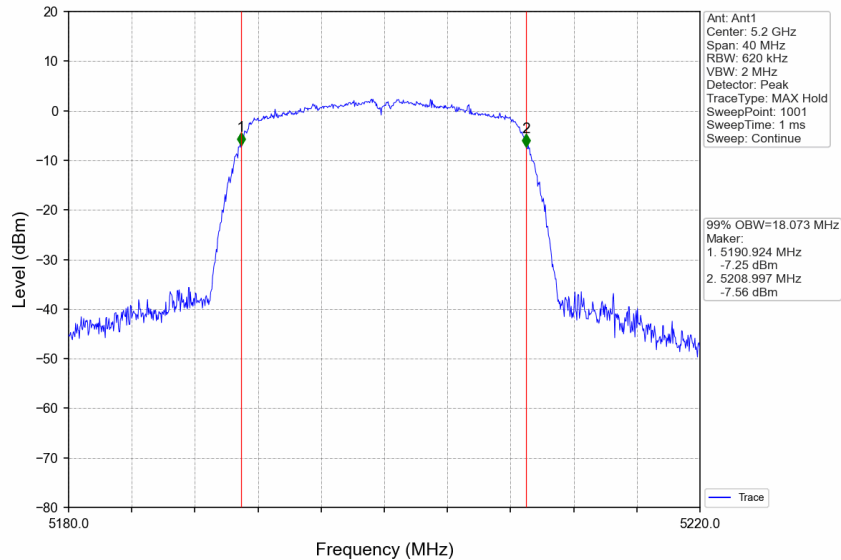
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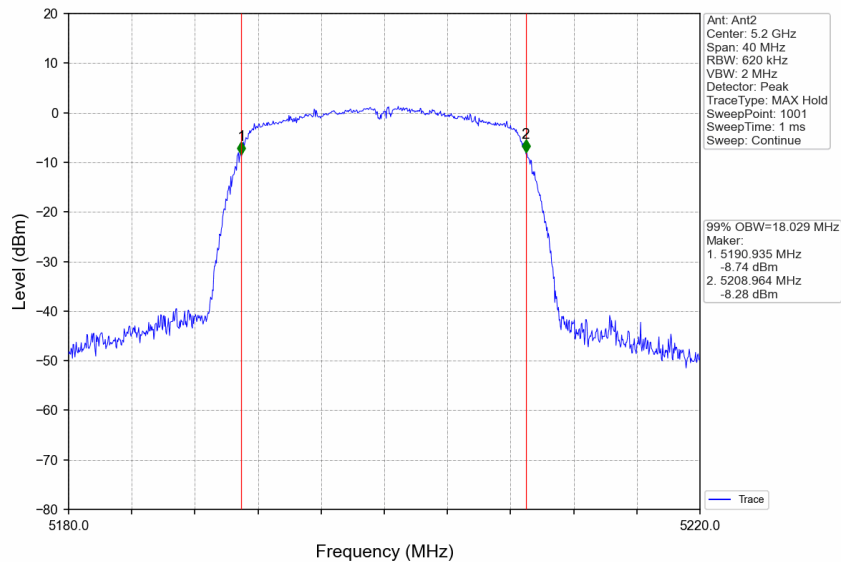
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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



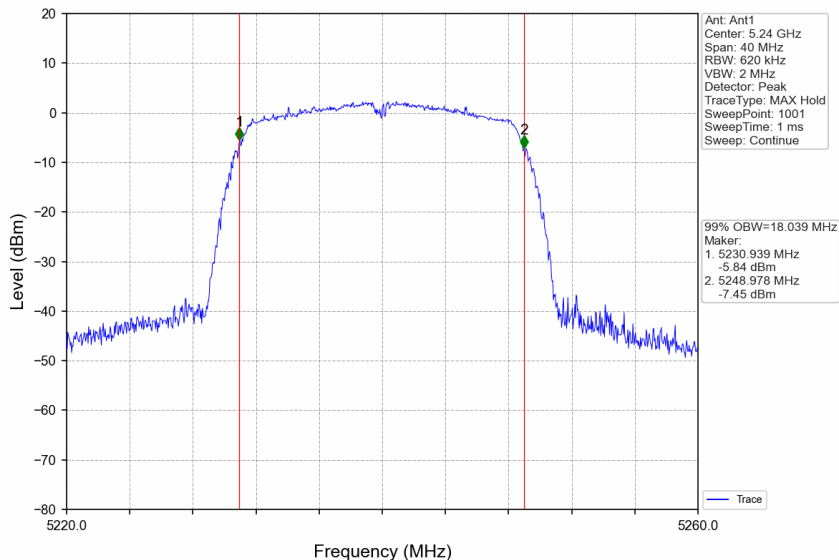
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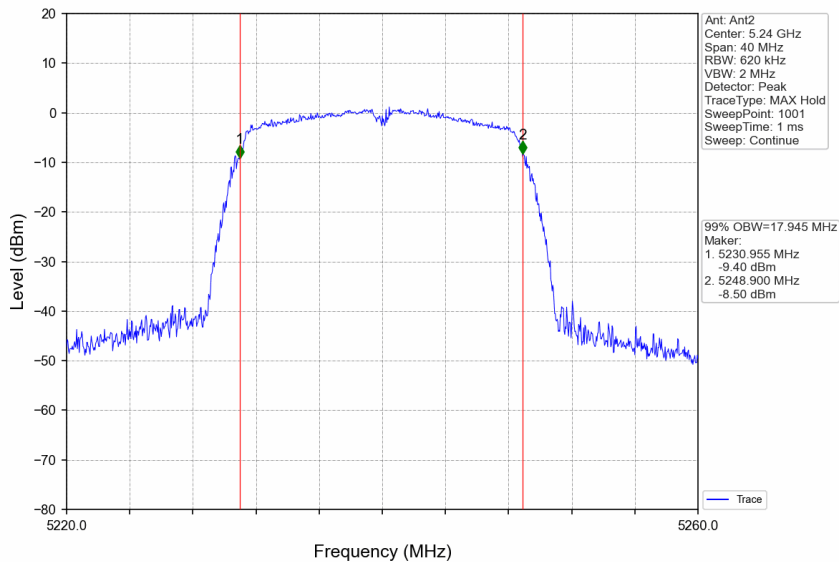
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



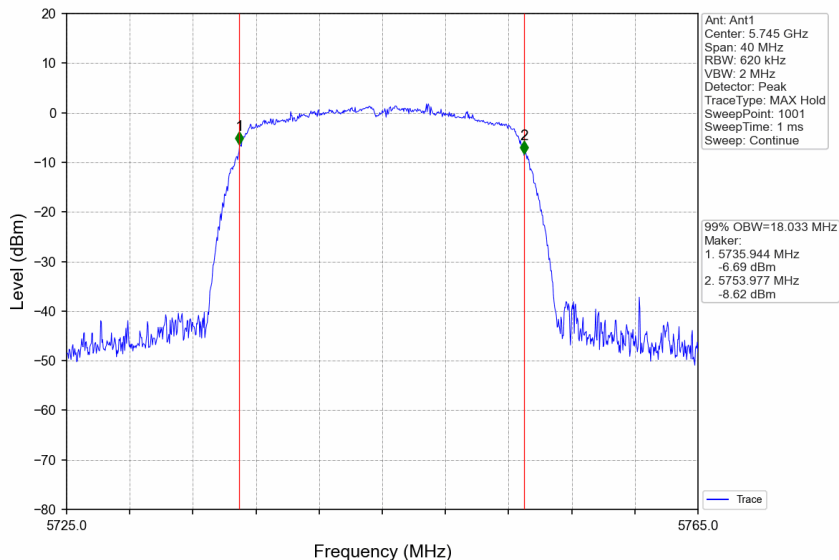
802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



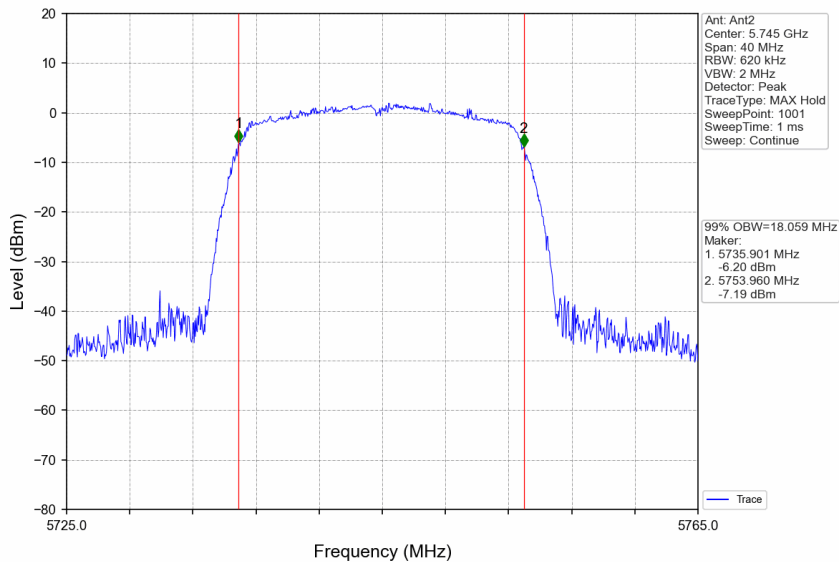
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802.11ac(VHT20)_LCH_5745MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5745MHz_Ant2_NTNV



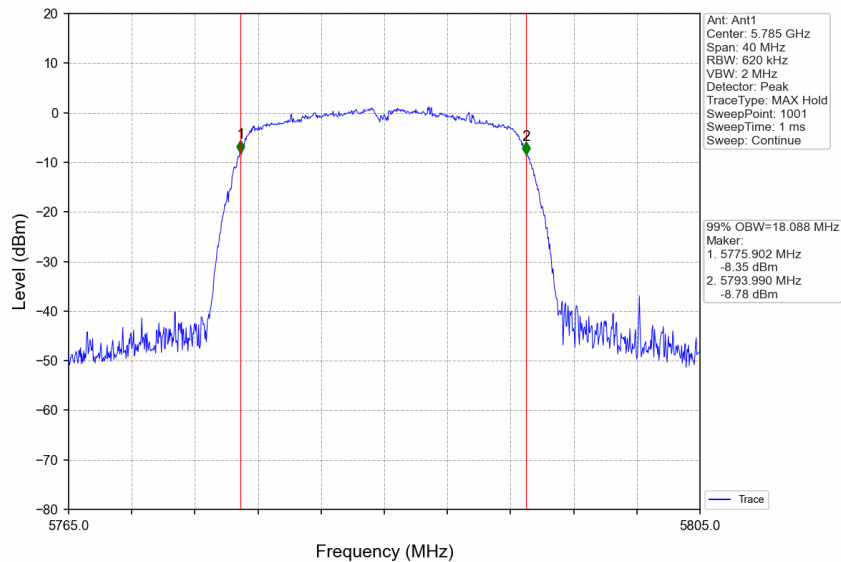
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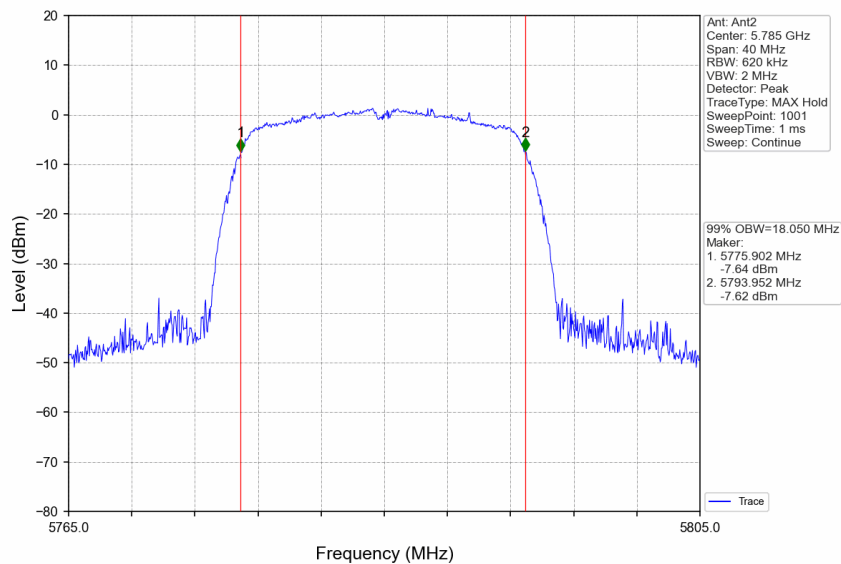
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802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



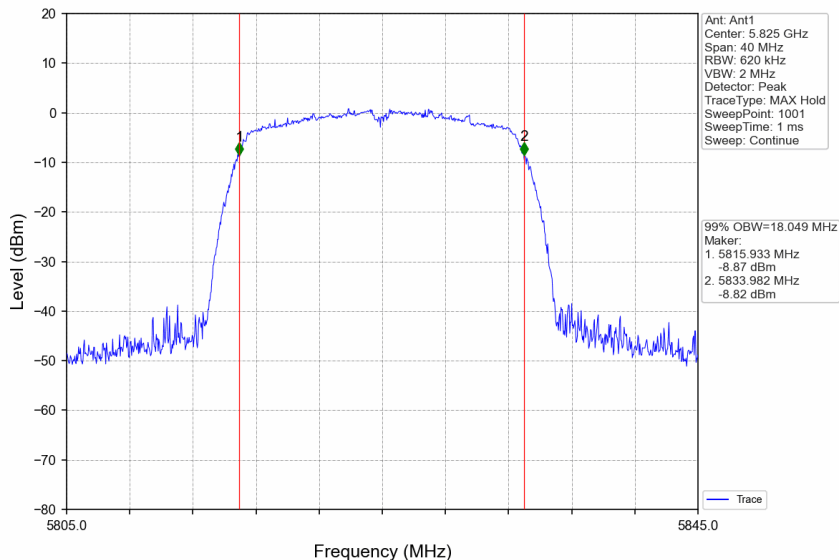
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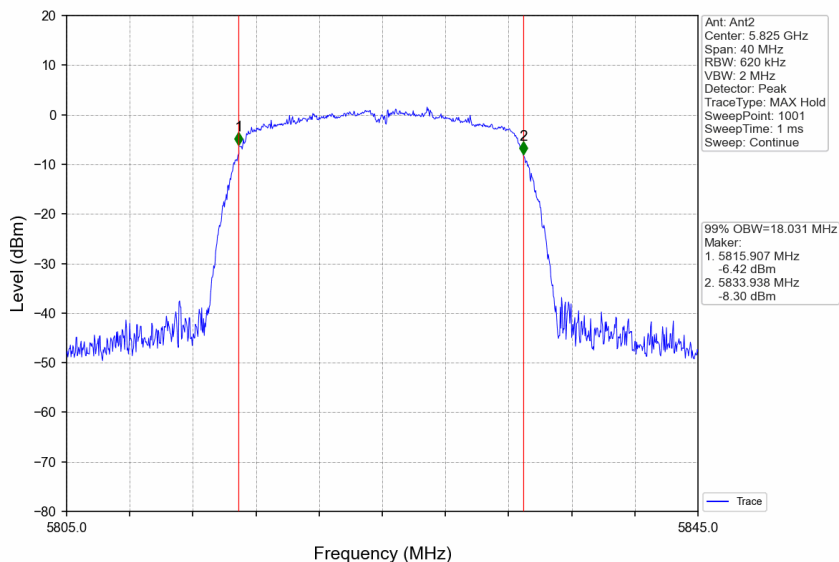
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802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV

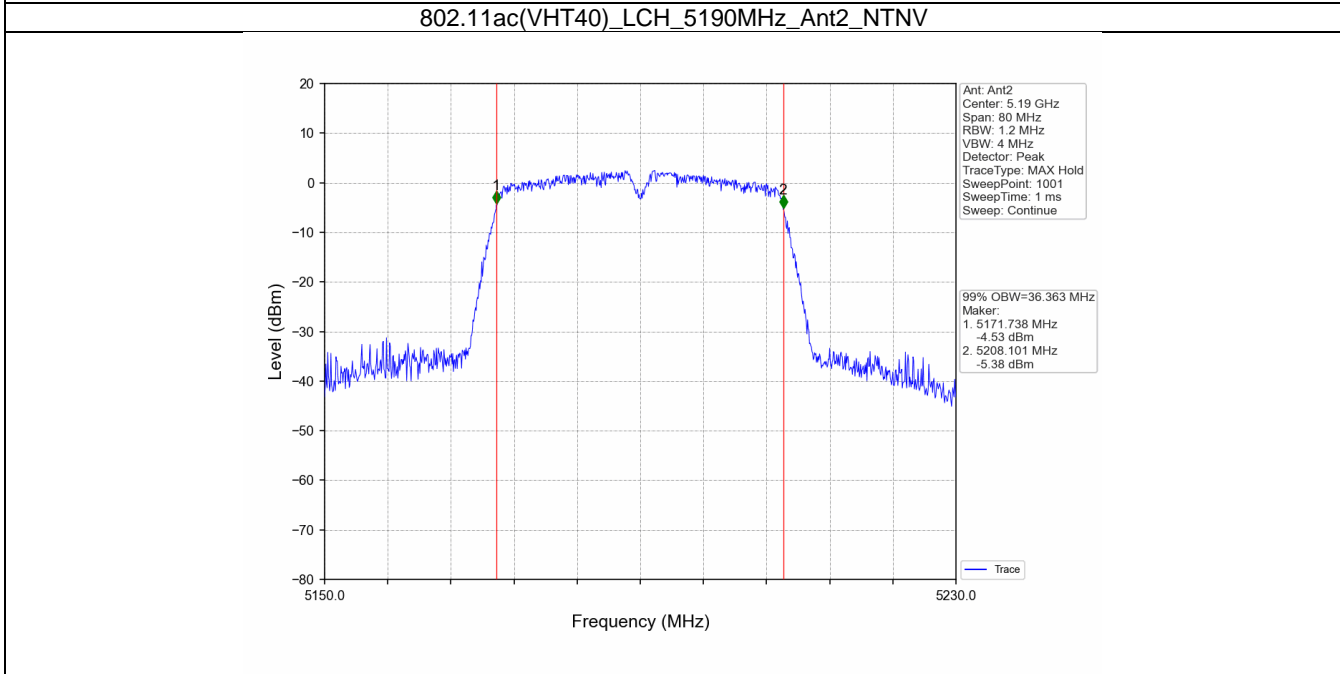
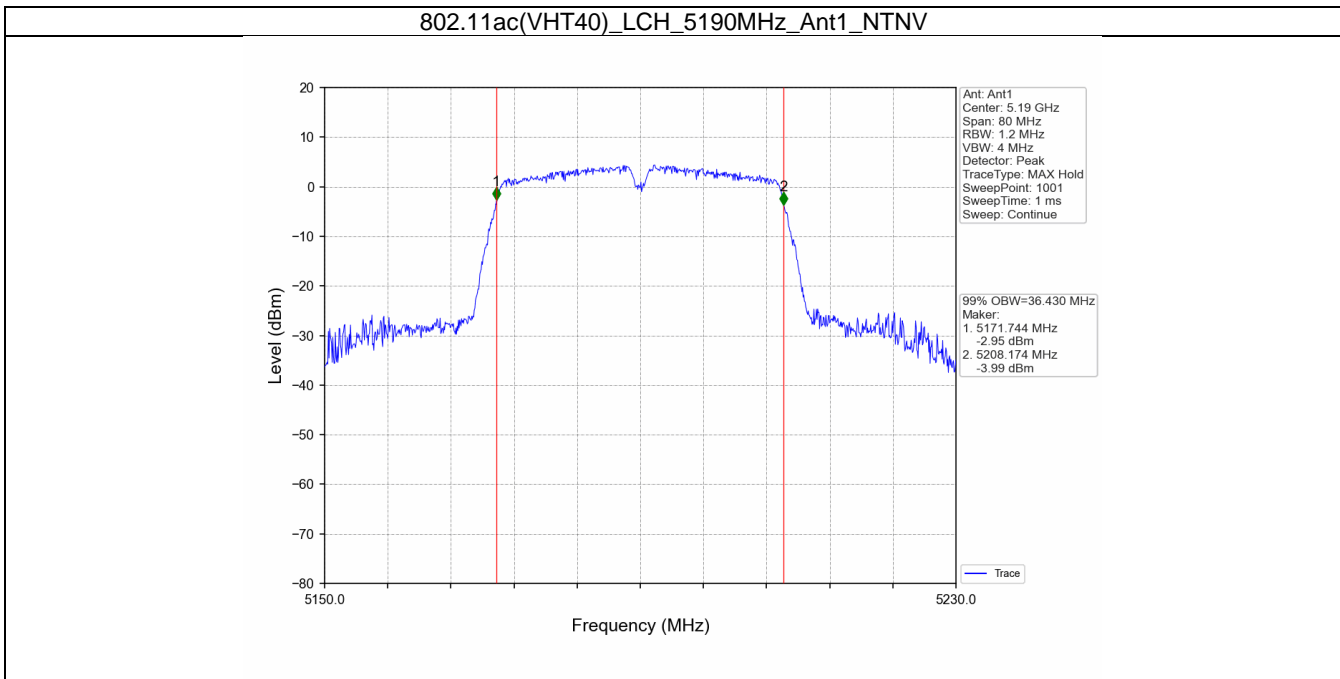


802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



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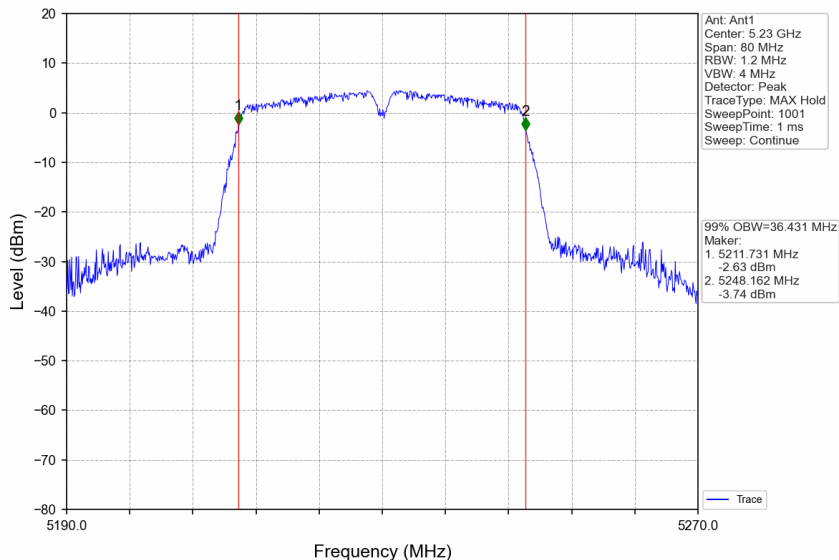


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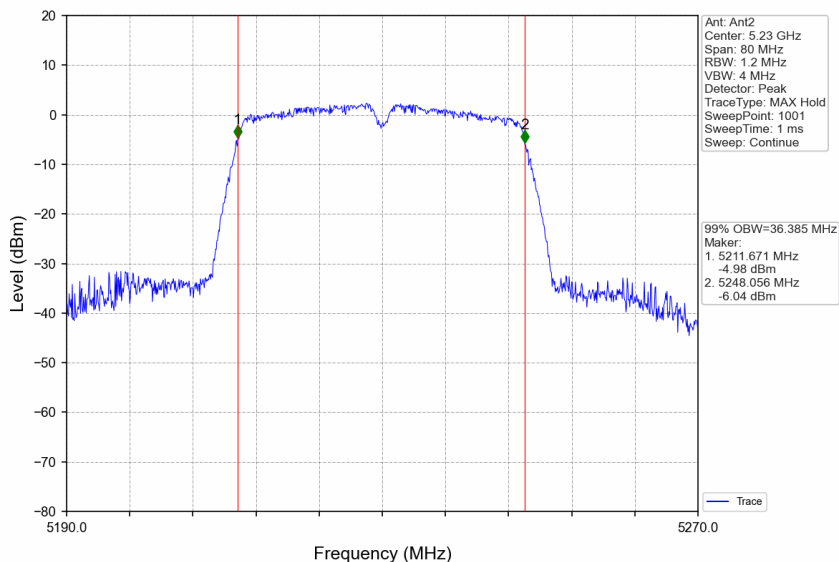
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



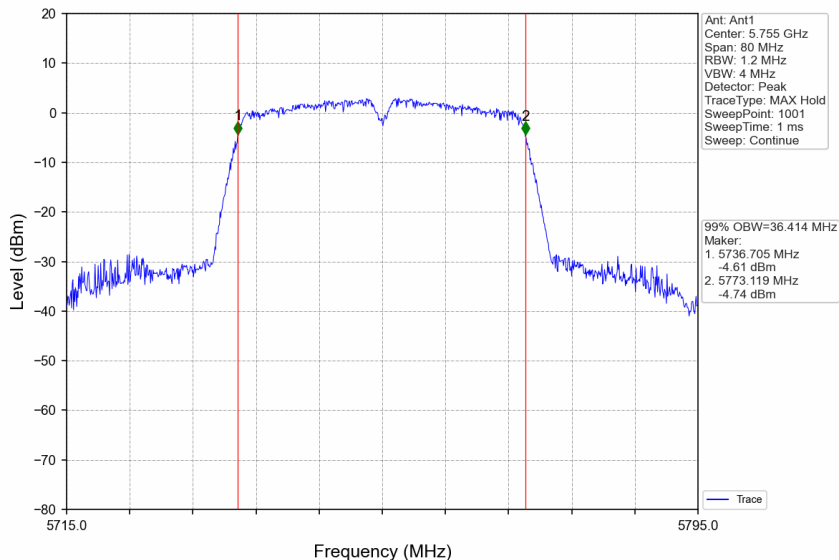
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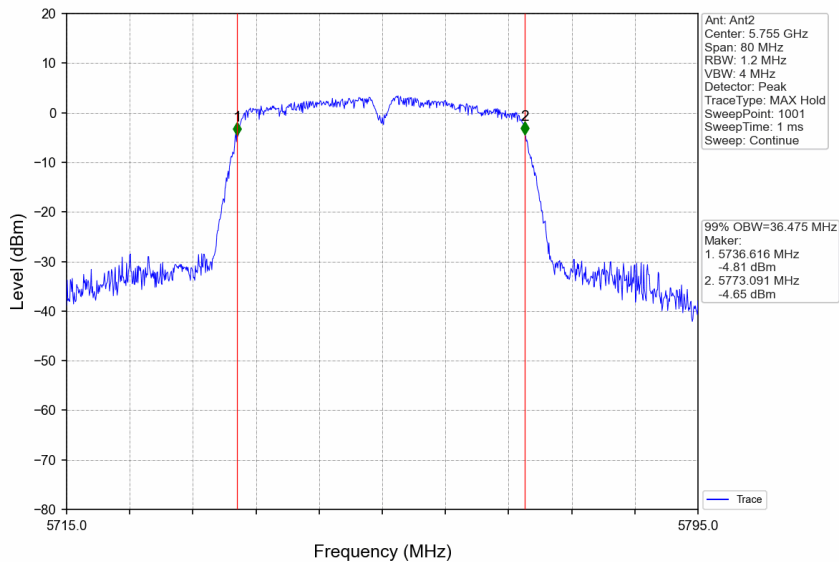
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV

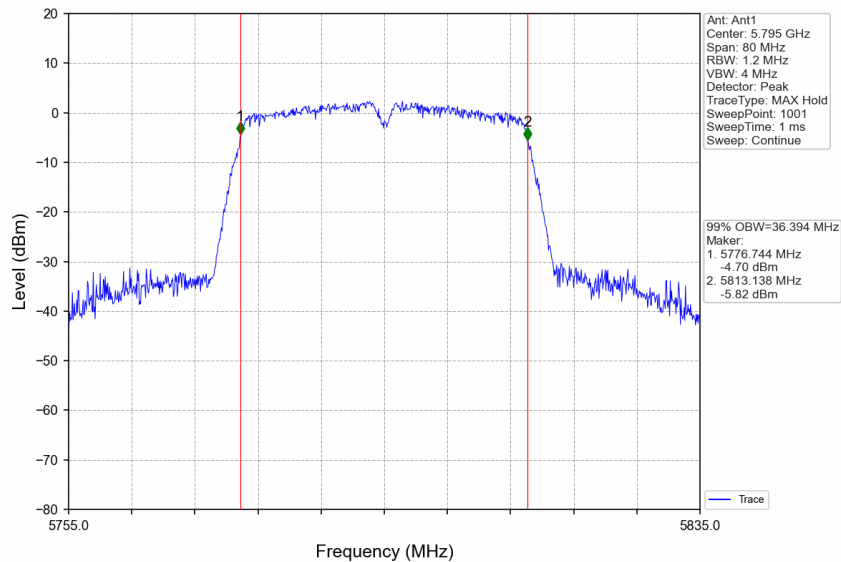


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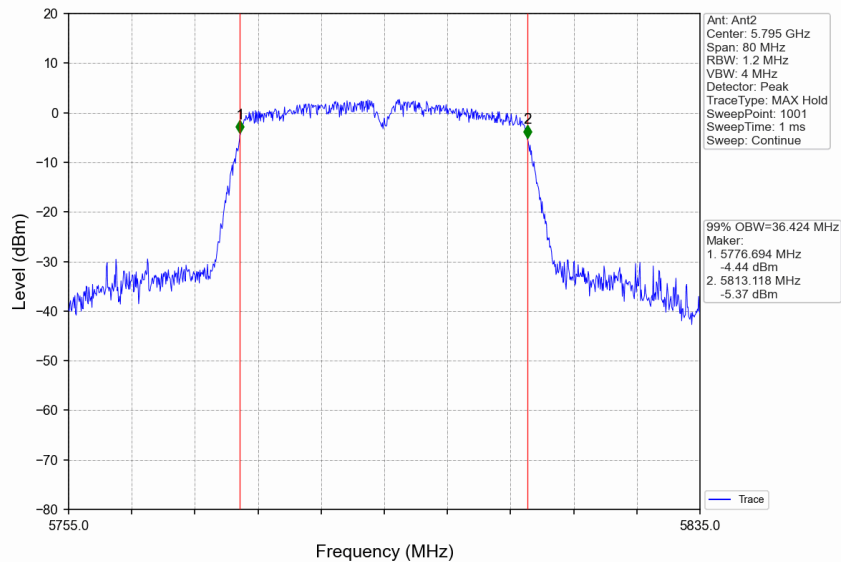
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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV

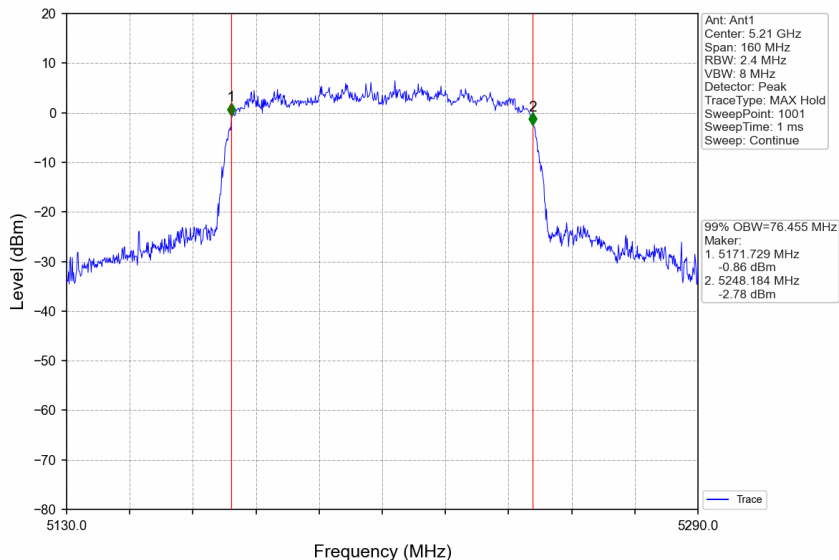


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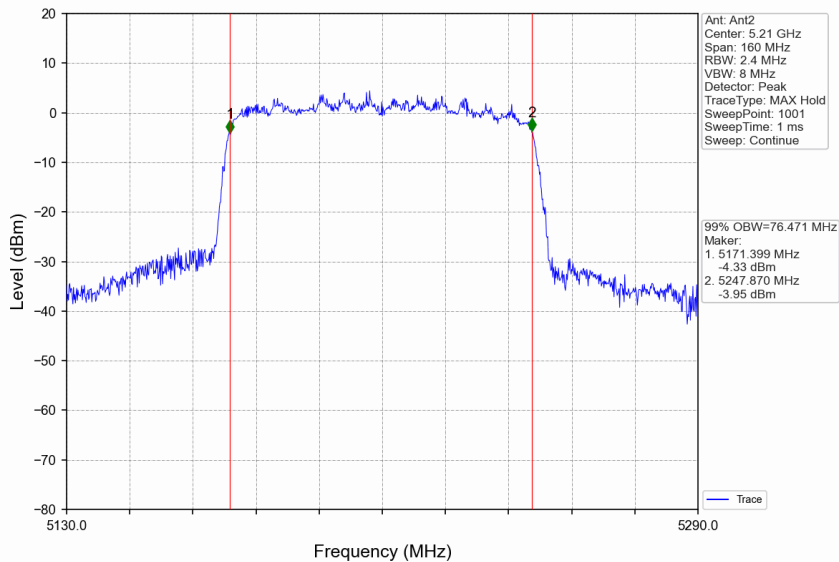
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802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



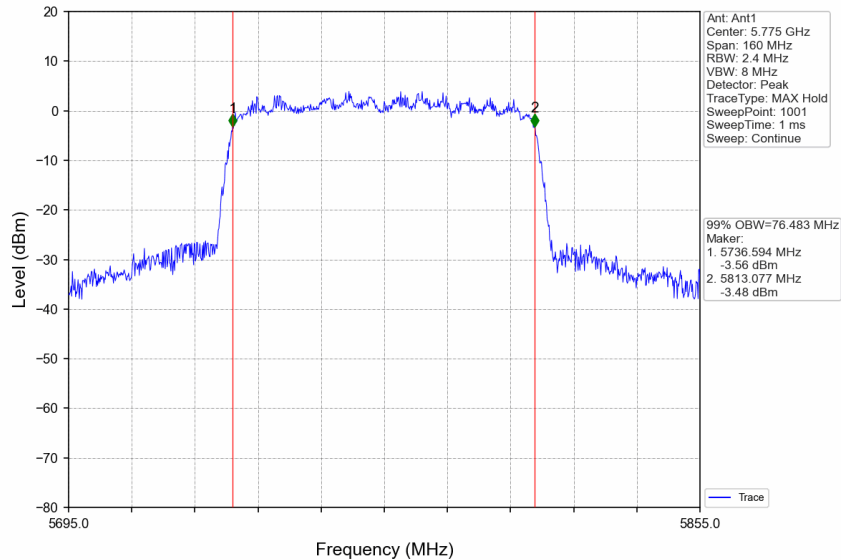
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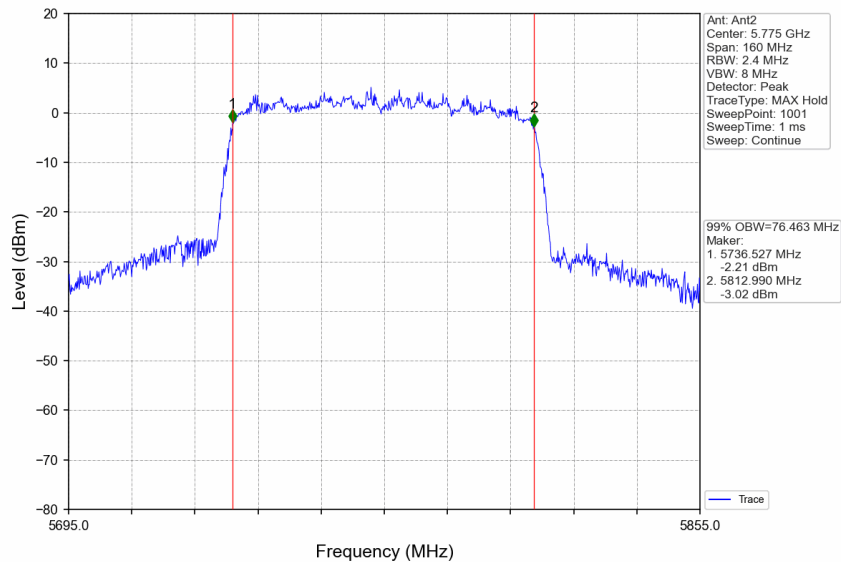
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802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant2_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	15.412	>=0.5	Pass
			2	15.485	>=0.5	Pass
		5785	1	14.234	>=0.5	Pass
			2	13.890	>=0.5	Pass
		5825	1	13.765	>=0.5	Pass
			2	15.159	>=0.5	Pass
802.11n (HT20)	MIMO	5745	1	15.094	>=0.5	Pass
			2	16.079	>=0.5	Pass
		5785	1	15.130	>=0.5	Pass
			2	15.113	>=0.5	Pass
		5825	1	15.139	>=0.5	Pass
			2	15.117	>=0.5	Pass
802.11n (HT40)	MIMO	5755	1	35.192	>=0.5	Pass
			2	35.148	>=0.5	Pass
		5795	1	35.184	>=0.5	Pass
			2	35.175	>=0.5	Pass
802.11ac (VHT20)	MIMO	5745	1	13.217	>=0.5	Pass
			2	15.479	>=0.5	Pass
		5785	1	13.873	>=0.5	Pass
			2	12.299	>=0.5	Pass
		5825	1	15.156	>=0.5	Pass
			2	14.714	>=0.5	Pass
802.11ac (VHT40)	MIMO	5755	1	33.946	>=0.5	Pass
			2	35.087	>=0.5	Pass
		5795	1	35.179	>=0.5	Pass
			2	35.176	>=0.5	Pass
802.11ac (VHT80)	MIMO	5775	1	75.235	>=0.5	Pass
			2	75.762	>=0.5	Pass

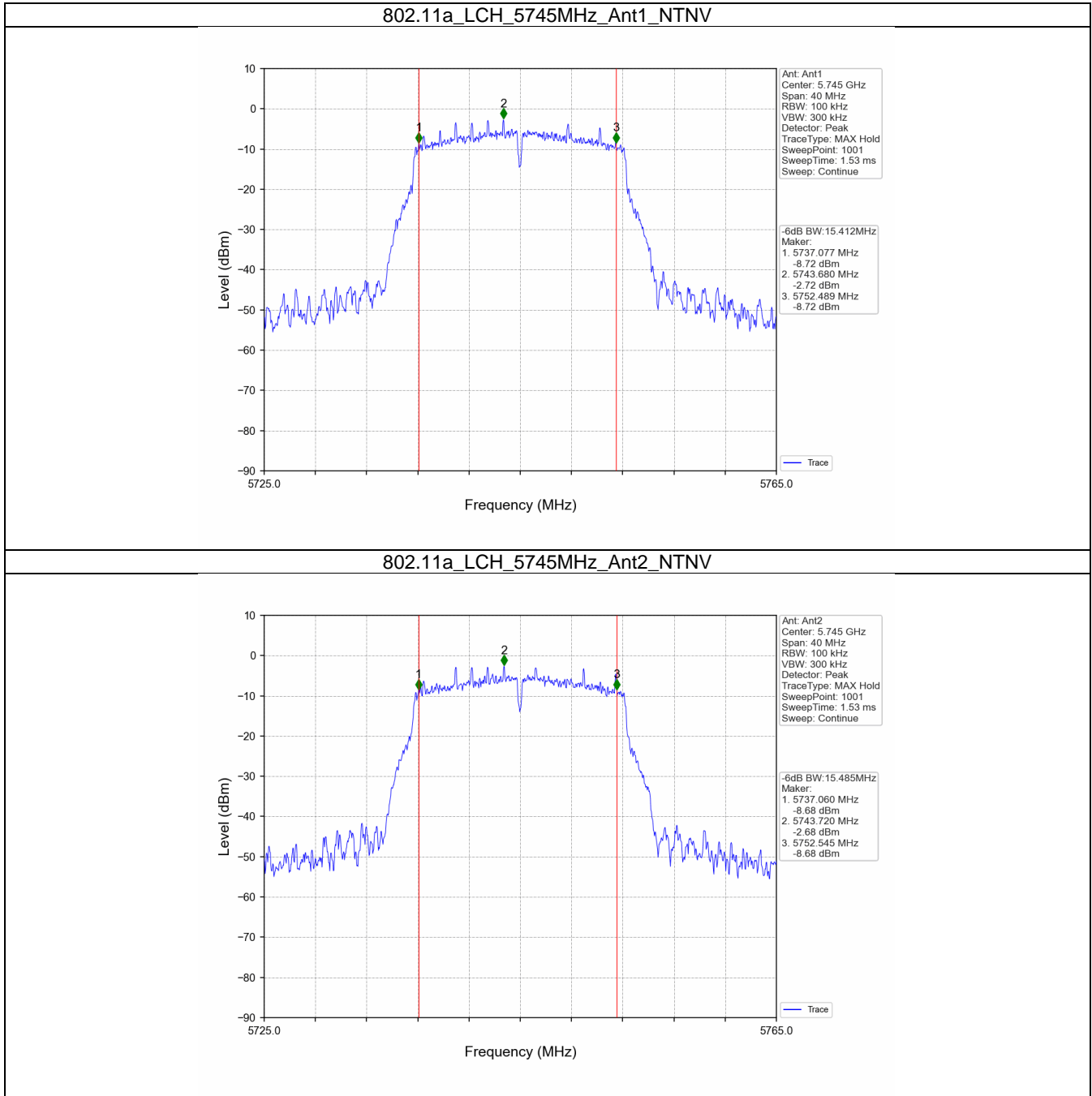


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2.2.2 Test Graph



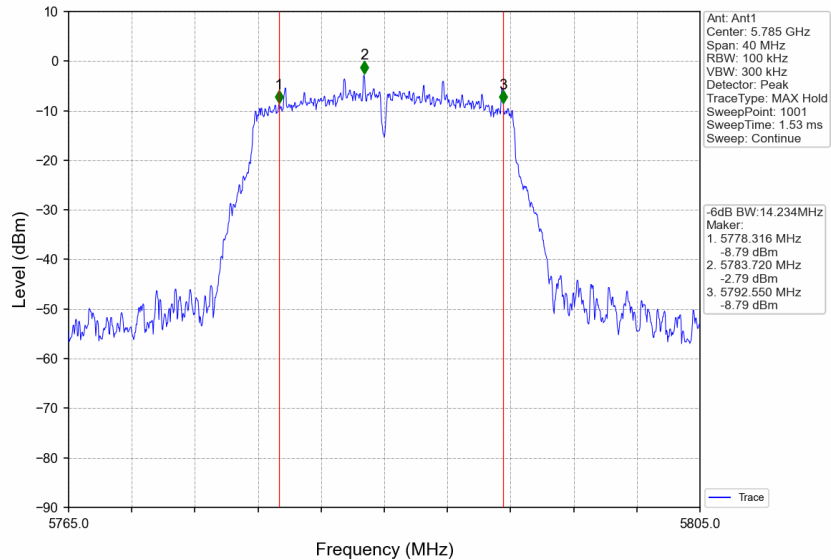
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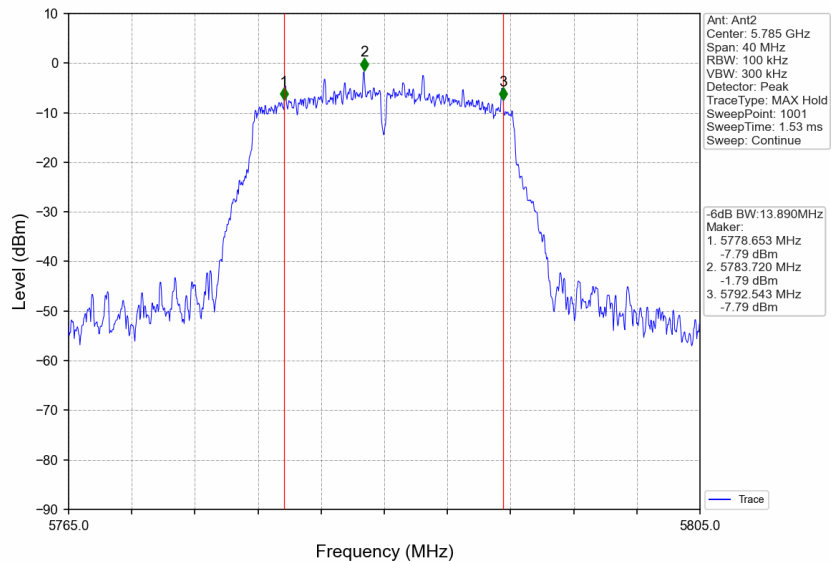
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant2_NTNV



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No.10, Weiye Road, Innovation Park, Kunshan, Jiangsu, China 215300
中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

t(86-512)57355888 f(86-512)57370818 www.sgsgroup.com.cn
t(86-512)57355888 f(86-512)57370818 sgs.china@sgs.com