

Appendix RF test data for 5G WIFI

1. Duty Cycle

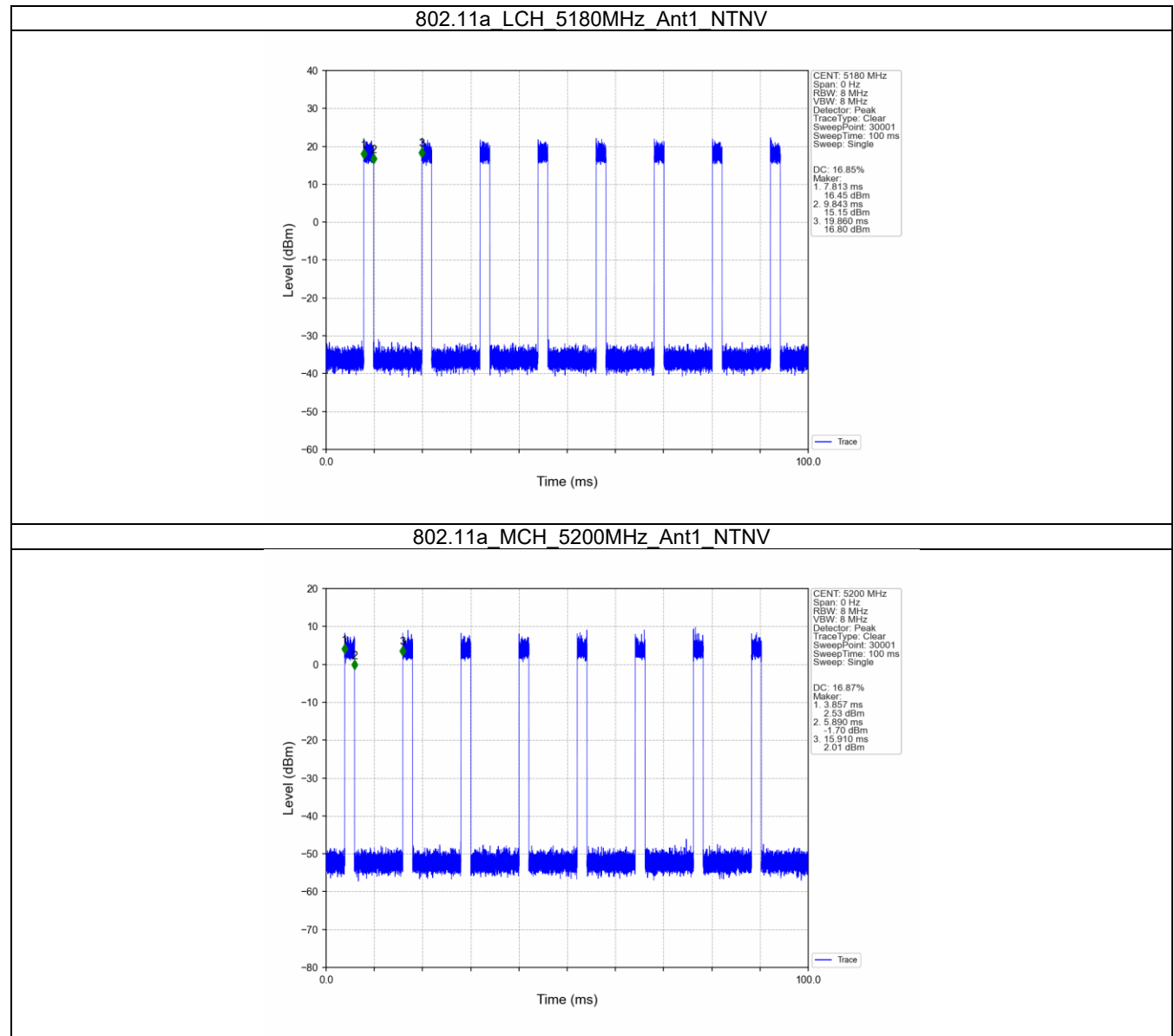
1.1 Test Result

1.1.1 Ant1

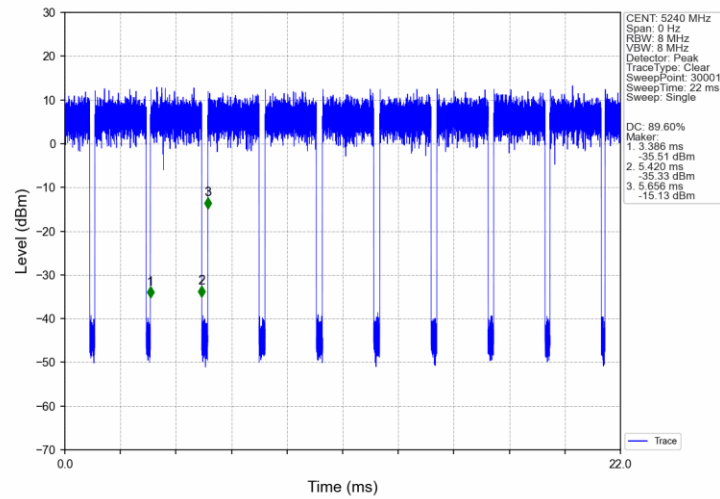
Ant1									
Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	/	/	2.030	12.047	16.85	7.73	0.02
		5200	/	/	2.033	12.053	16.87	7.73	0.00
		5240	/	/	2.034	2.270	89.60	0.48	3.71
		5745	/	/	2.034	2.261	89.96	0.46	4.93
		5785	/	/	2.035	2.203	92.37	0.34	5.20
		5825	/	/	2.035	2.261	90.00	0.46	4.10
802.11n (HT20)	SISO	5180	/	/	1.894	2.121	89.30	0.49	3.56
		5200	/	/	1.894	2.072	91.41	0.39	4.60
		5240	/	/	1.895	2.122	89.30	0.49	5.23
		5745	/	/	2.035	2.829	71.93	1.43	21.43
		5785	/	/	2.035	2.334	87.19	0.60	6.16
		5825	/	/	2.036	2.262	90.01	0.46	4.90
802.11n (HT40)	SISO	5190	/	/	0.934	1.112	83.99	0.76	10.73
		5230	/	/	0.934	1.169	79.90	0.97	6.65
		5755	/	/	0.934	1.085	86.08	0.65	8.69
		5795	/	/	0.933	10.956	8.52	10.70	0.04
802.11ac (VHT20)	SISO	5180	/	/	1.900	2.017	94.20	0.26	3.52
		5200	/	/	1.900	2.382	79.76	0.98	2.80
		5240	/	/	1.900	2.129	89.24	0.49	5.21
		5745	/	/	1.902	2.071	91.84	0.37	4.61
		5785	/	/	1.902	2.071	91.84	0.37	5.08
		5825	/	/	1.902	2.111	90.10	0.45	4.43
802.11ac (VHT40)	SISO	5190	/	/	0.936	1.115	83.95	0.76	10.71
		5230	/	/	0.937	1.071	87.49	0.58	8.02
		5755	/	/	0.938	1.088	86.21	0.64	9.51
		5795	/	/	0.938	1.107	84.73	0.72	10.91
802.11ax (HEW20)	SISO	5180	SU	/	1.462	1.632	89.58	0.48	4.68
		5200	SU	/	1.462	1.699	86.05	0.65	6.35
		5240	SU	/	1.463	1.656	88.35	0.54	4.58
		5745	SU	/	1.462	2.176	67.19	1.73	24.93
		5785	SU	/	1.462	2.162	67.62	1.70	29.41
		5825	SU	/	1.462	1.691	86.46	0.63	6.45
802.11ax (HEW40)	SISO	5190	SU	/	0.763	0.897	85.06	0.70	8.45
		5230	SU	/	0.762	0.941	80.98	0.92	6.74
		5755	SU	/	0.763	0.941	81.08	0.91	13.56
		5795	SU	/	0.763	0.946	80.66	0.93	6.65

1.2 Test Graph

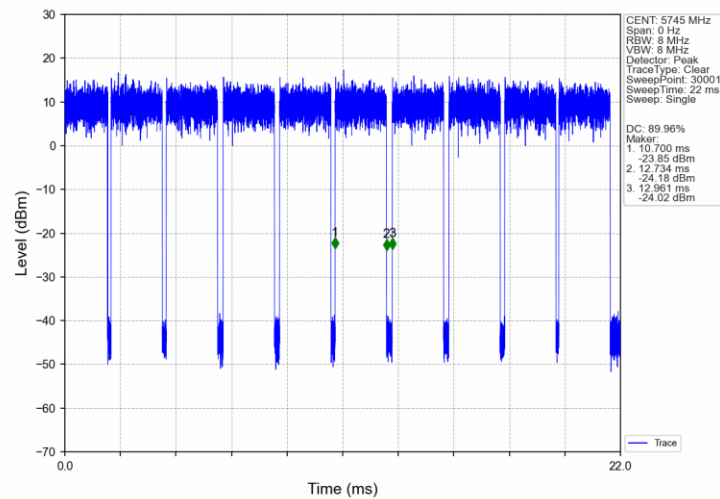
1.2.1 Ant1



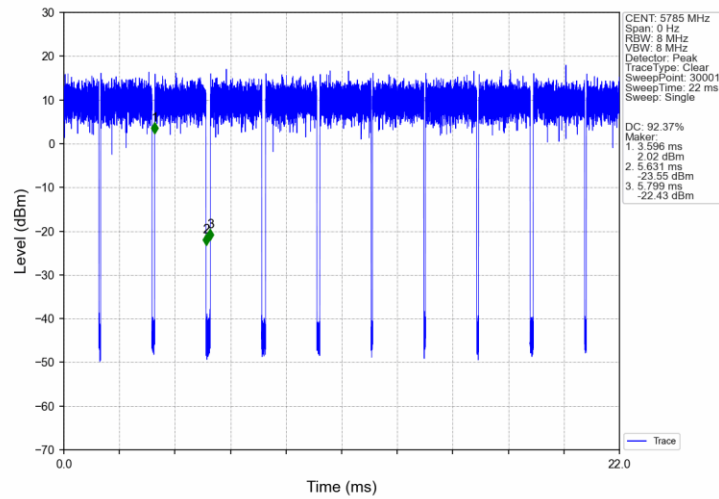
802.11a_HCH_5240MHz_Ant1_NTNV



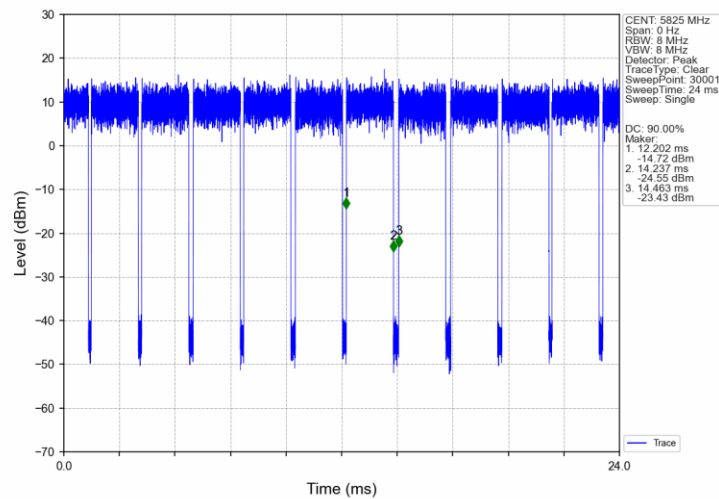
802.11a_LCH_5745MHz_Ant1_NTNV



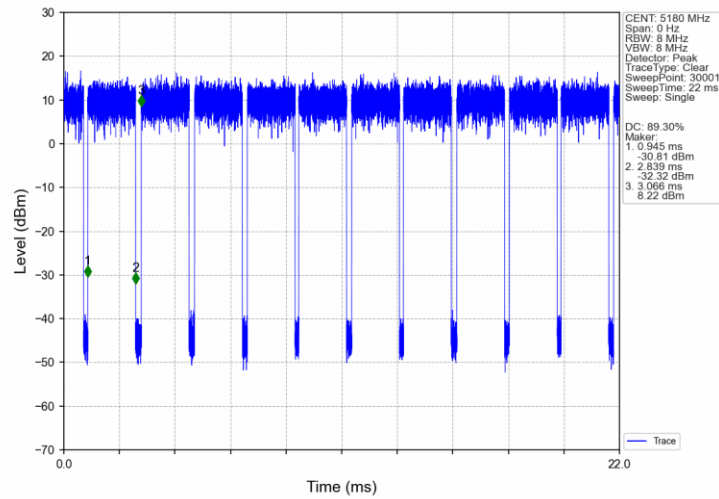
802.11a_MCH_5785MHz_Ant1_NTNV



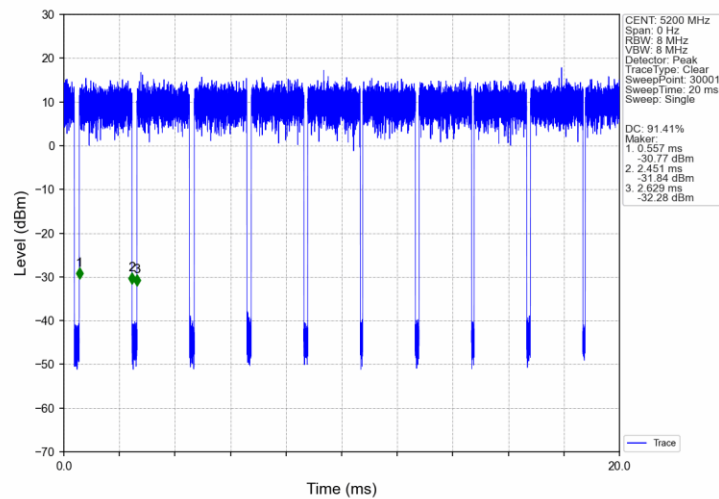
802.11a_HCH_5825MHz_Ant1_NTNV



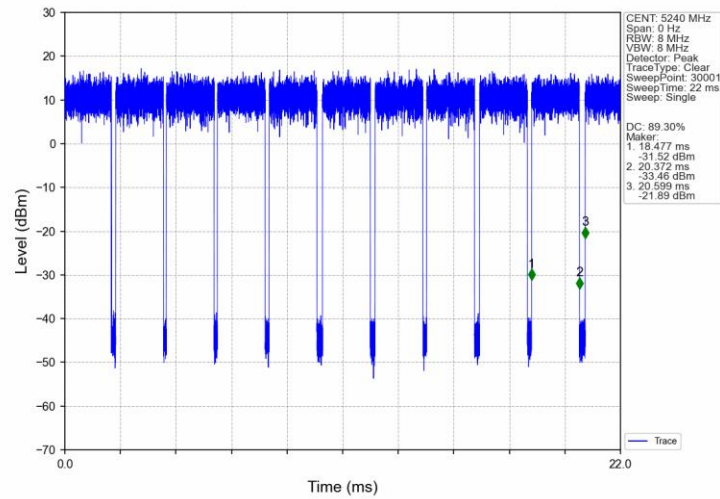
802.11n(HT20) LCH 5180MHz Ant1 NTN



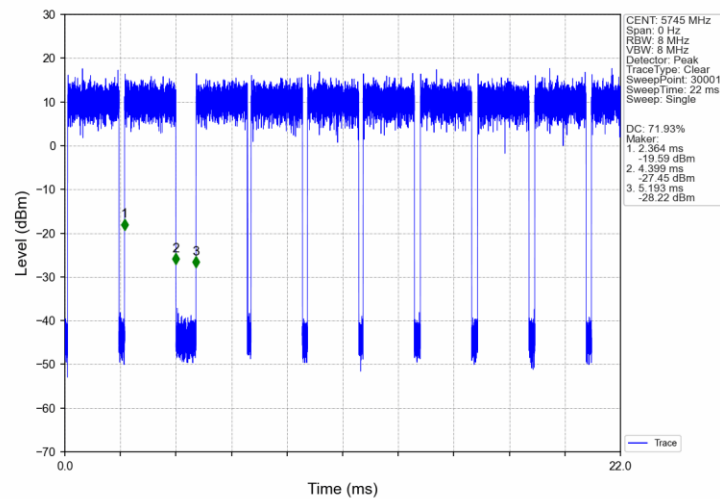
802.11n(HT20) MCH 5200MHz Ant1 NTN



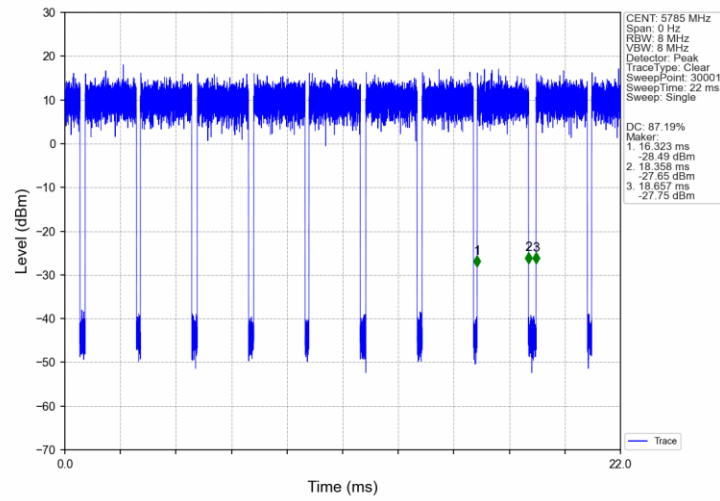
802.11n(HT20) HCH 5240MHz Ant1 NTNv



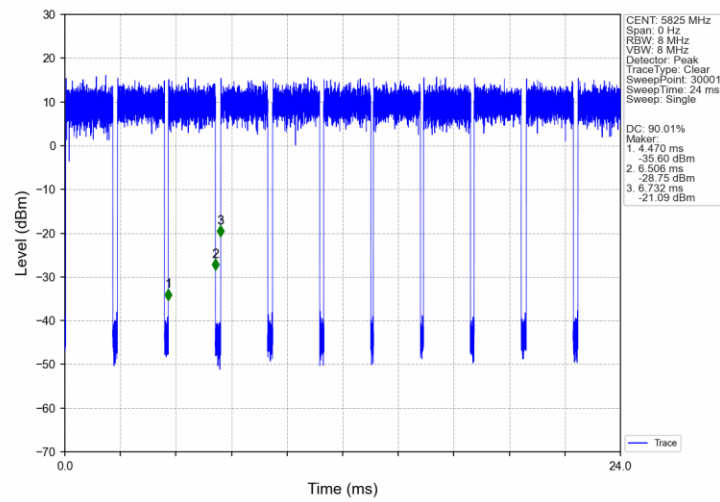
802.11n(HT20) LCH 5745MHz Ant1 NTNv



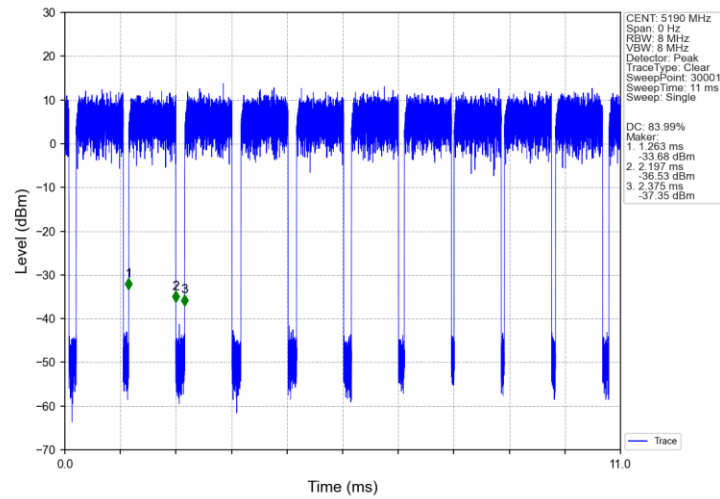
802.11n(HT20) MCH 5785MHz Ant1 NTN



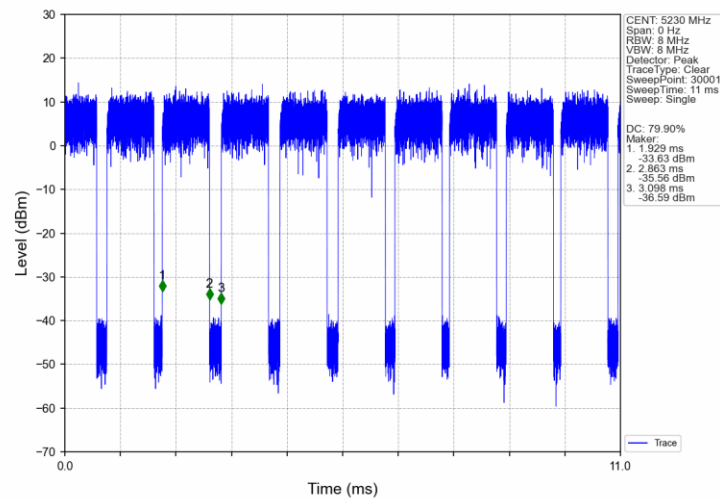
802.11n(HT20) HCH 5825MHz Ant1 NTN



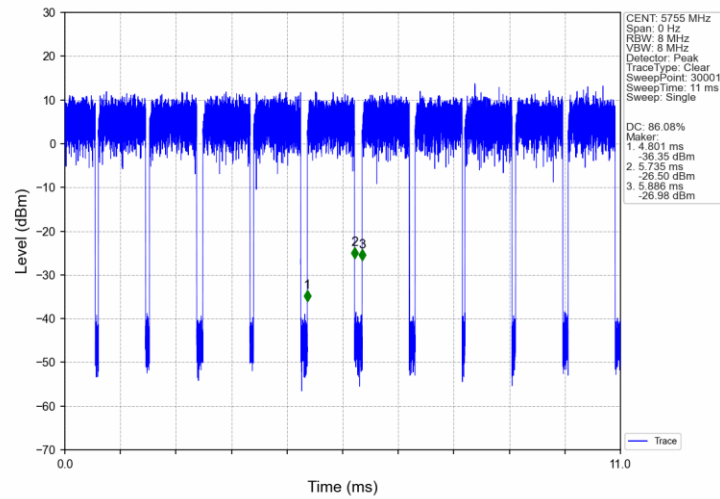
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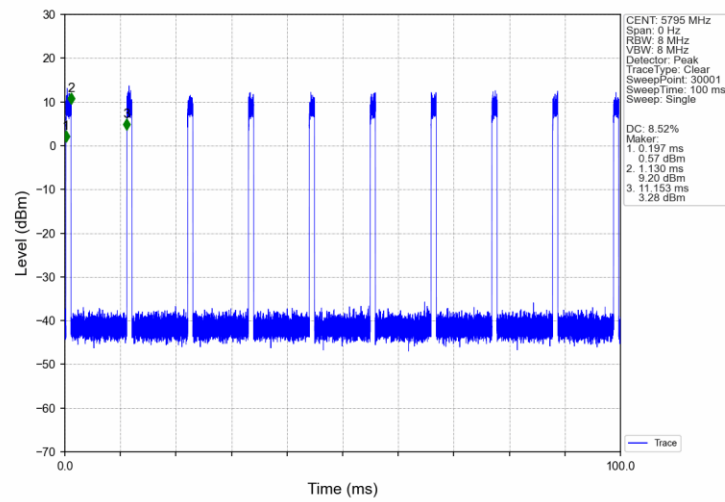
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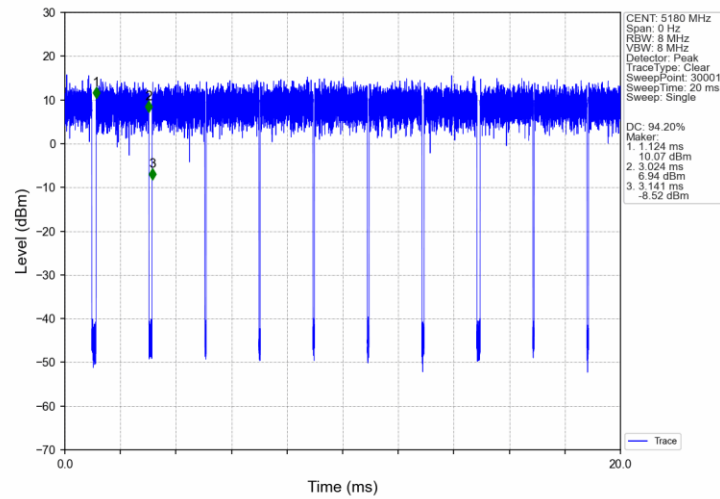
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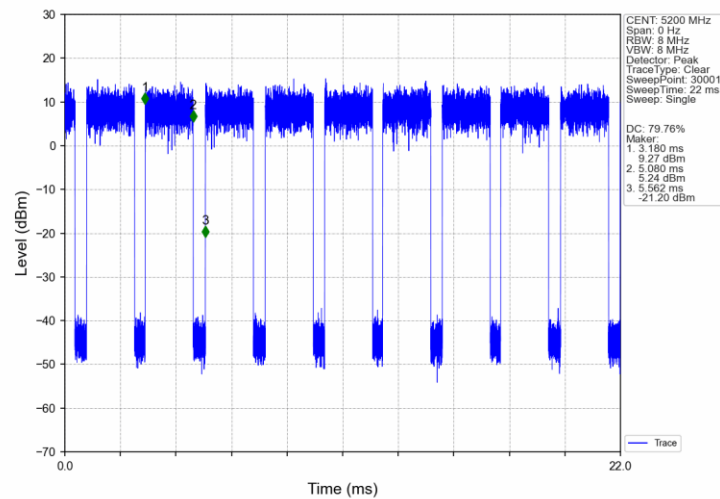
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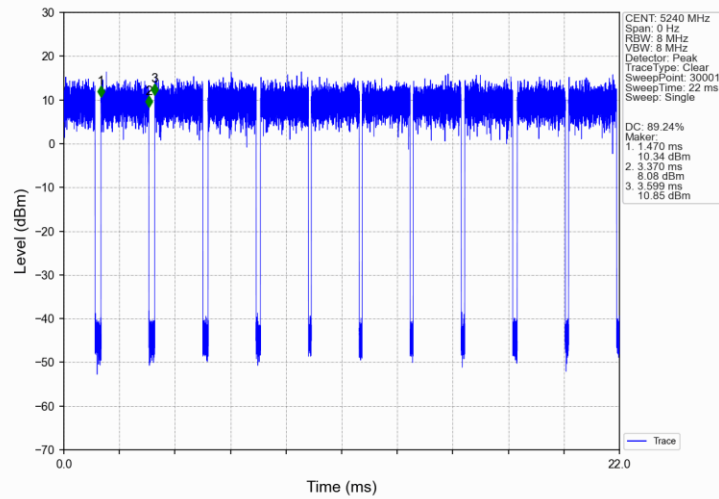
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



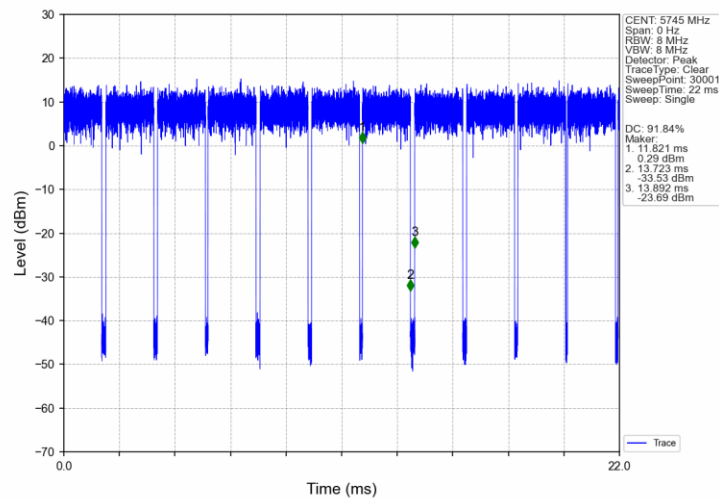
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



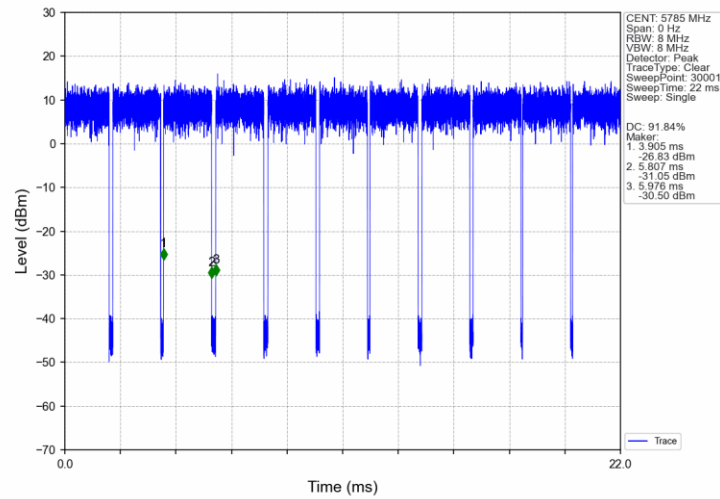
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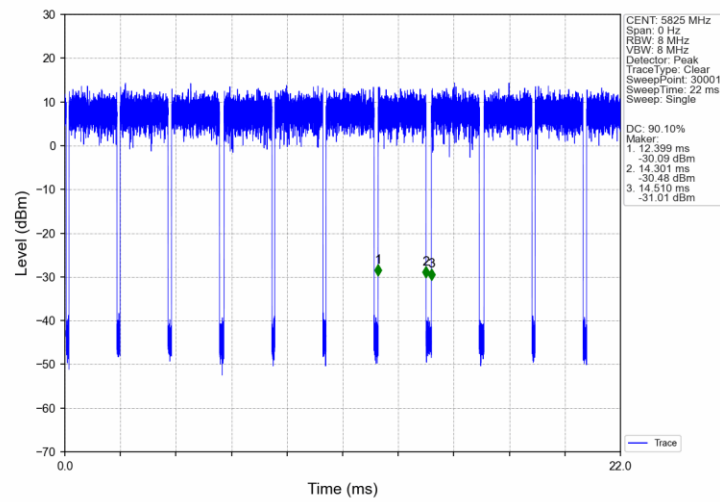
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



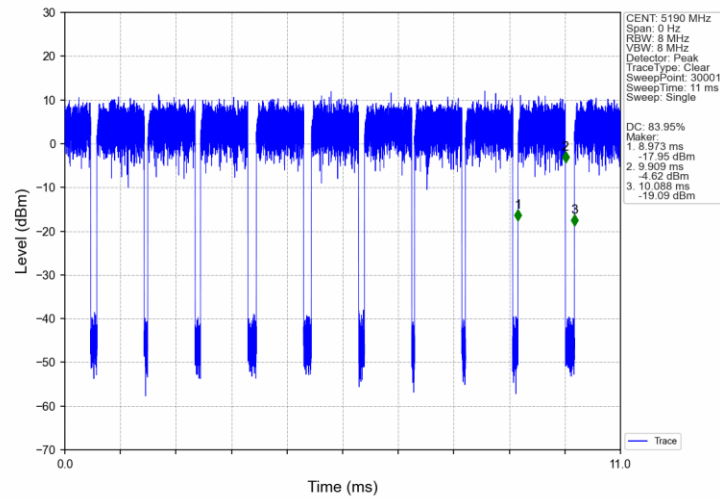
802.11ac(VHT20) MCH 5785MHz Ant1 NTN



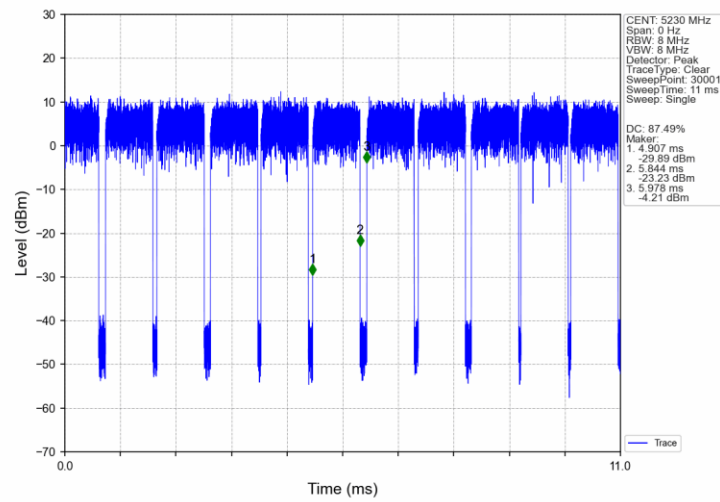
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



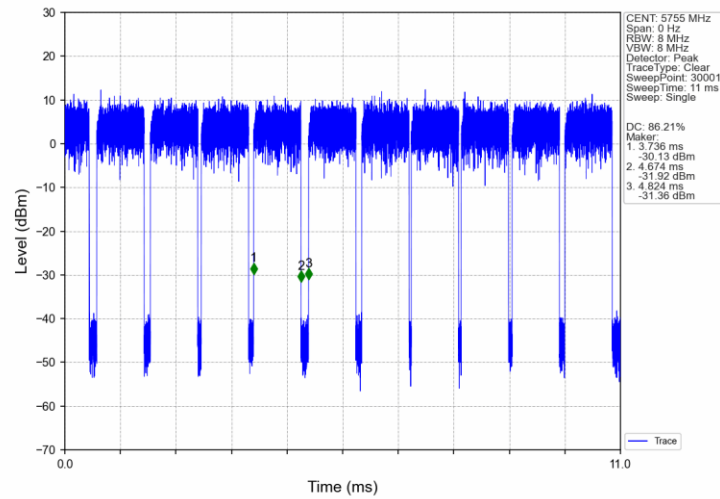
802.11ac(VHT40) LCH 5190MHz Ant1 NTN



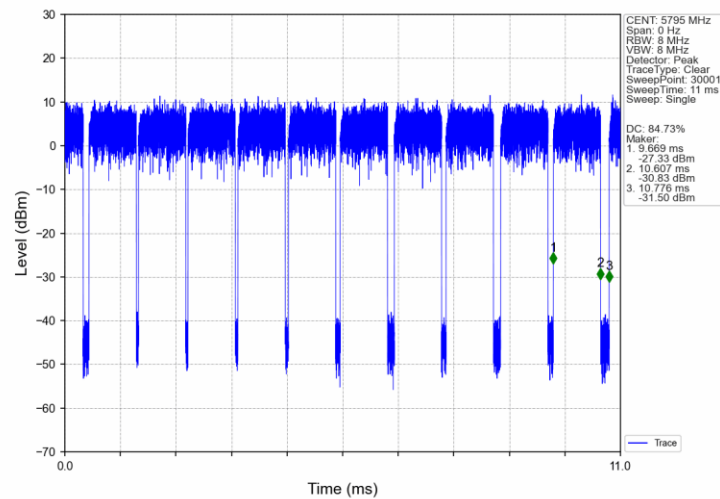
802.11ac(VHT40) HCH 5230MHz Ant1 NTN



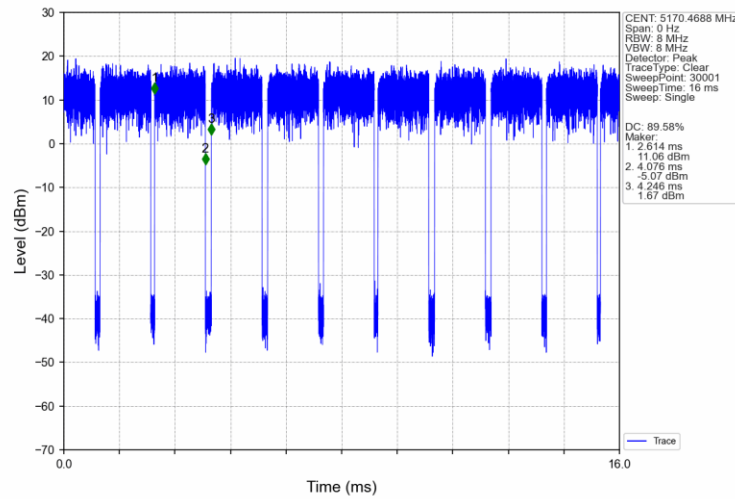
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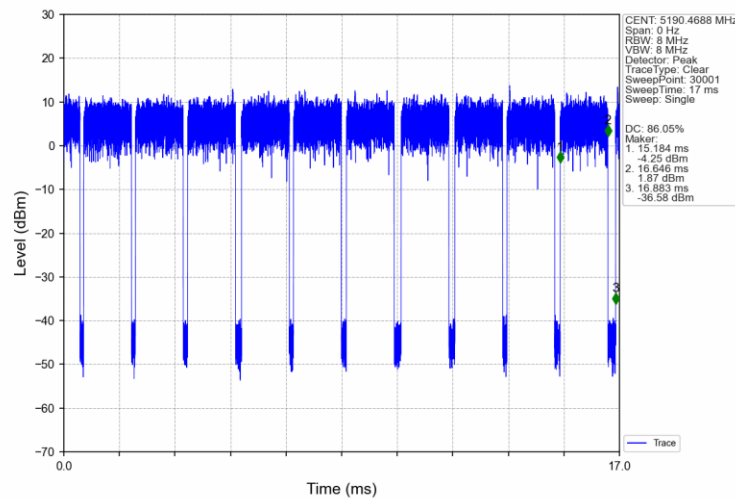
802.11ac(VHT40) HCH 5795MHz Ant1 NTN



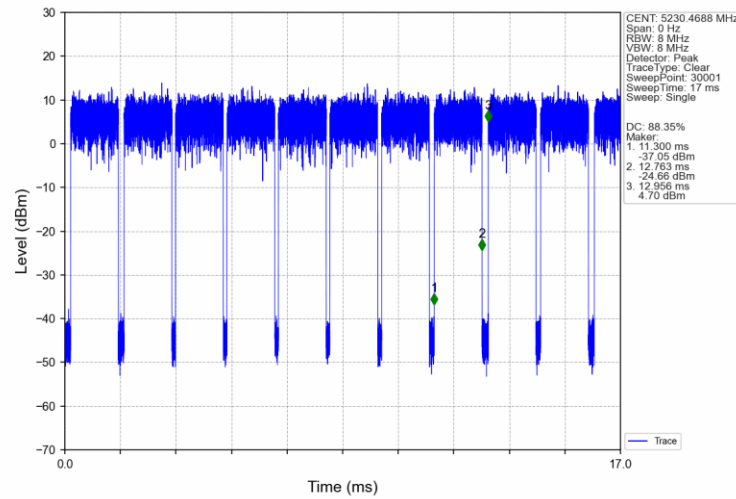
802.11ax(HEW20) LCH 5180MHz SU / Ant1 NTN



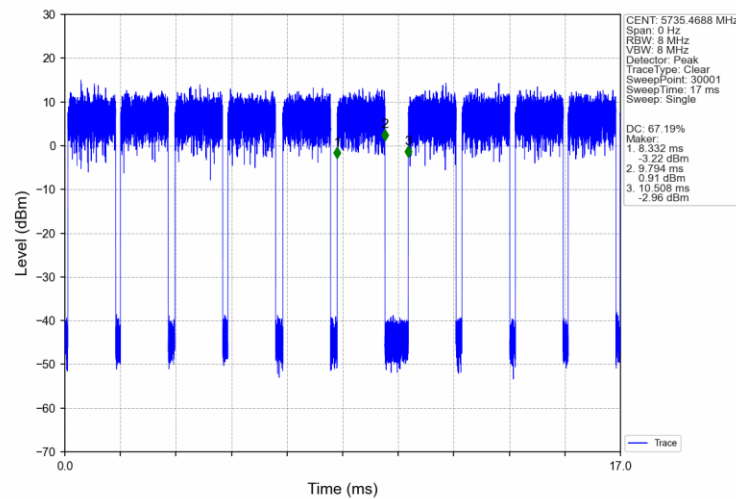
802.11ax(HEW20) MCH 5200MHz SU / Ant1 NTN



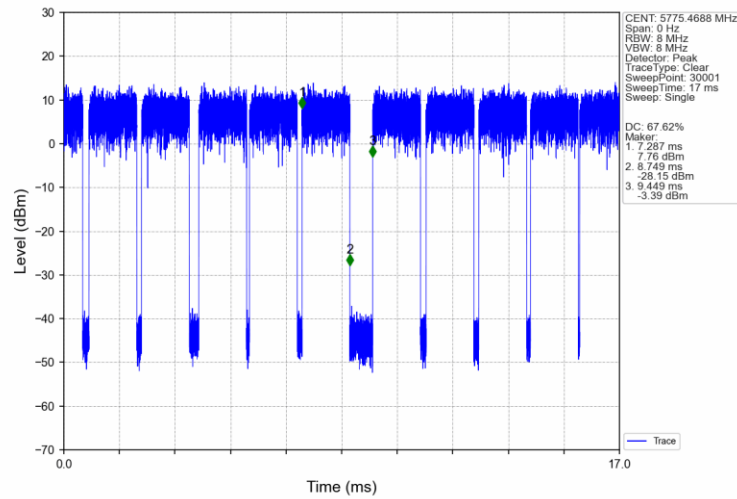
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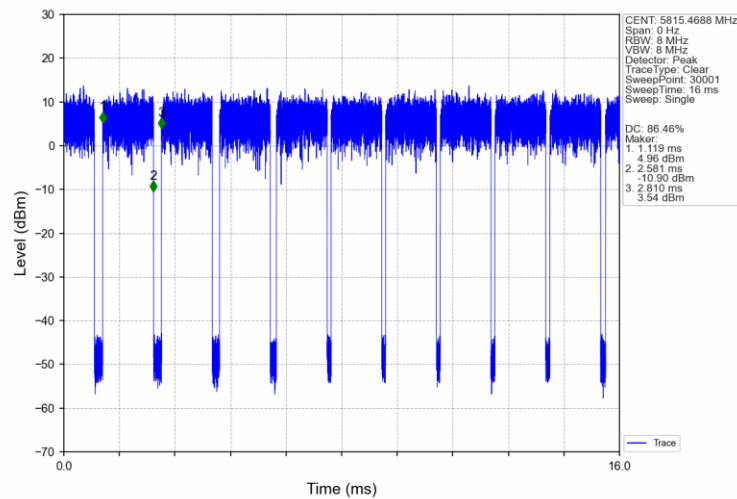
802.11ax(HEW20) LCH 5745MHz SU / Ant1 NTN



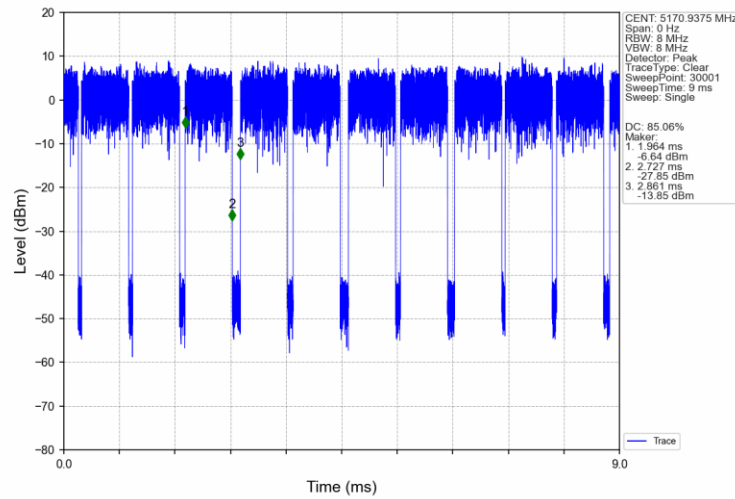
802.11ax(HEW20) MCH 5785MHz SU / Ant1 NTNv



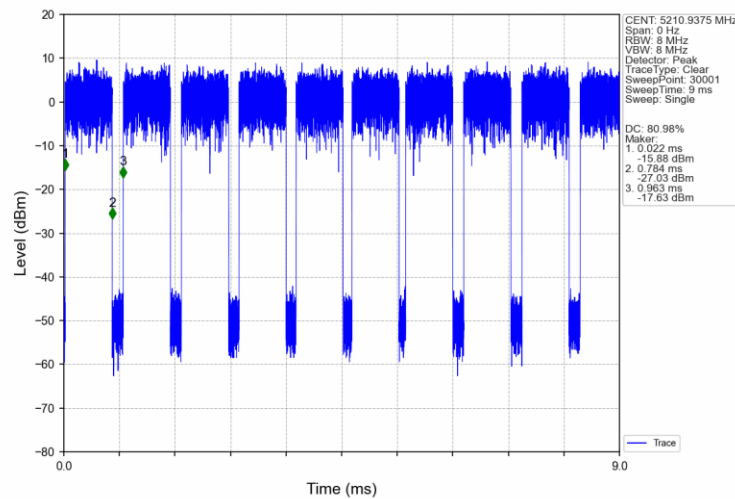
802.11ax(HEW20) HCH 5825MHz SU / Ant1 NTNv



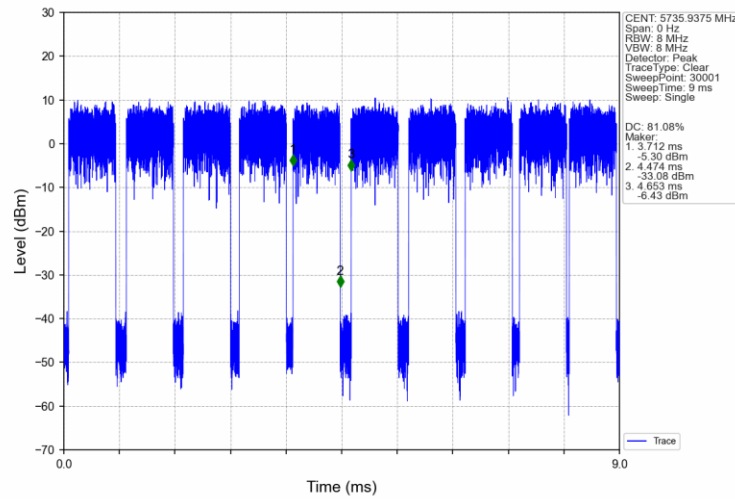
802.11ax(HEW40) LCH 5190MHz SU / Ant1 NTN



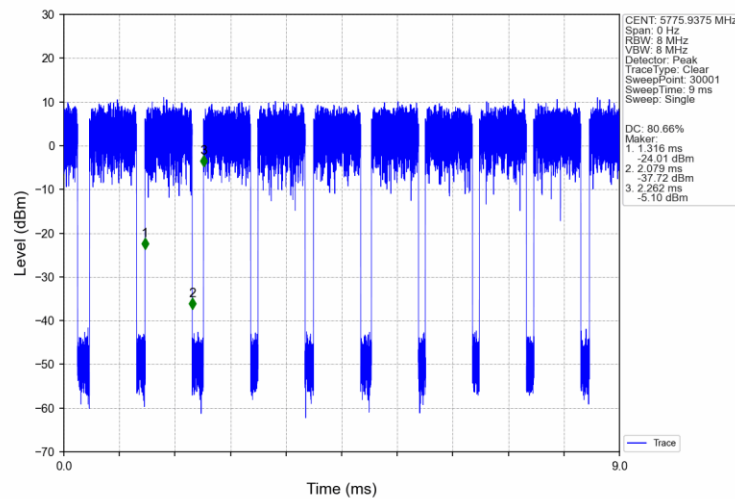
802.11ax(HEW40) HCH 5230MHz SU / Ant1 NTN



802.11ax(HEW40) LCH 5755MHz SU / Ant1 NTN



802.11ax(HEW40) HCH 5795MHz SU / Ant1 NTN



2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	17.523	/	Pass
		5200	/	/	1	17.652	/	Pass
		5240	/	/	1	18.211	/	Pass
		5745	/	/	1	18.657	/	Pass
		5785	/	/	1	18.399	/	Pass
		5825	/	/	1	18.580	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	19.293	/	Pass
		5200	/	/	1	19.250	/	Pass
		5240	/	/	1	19.176	/	Pass
		5745	/	/	1	18.517	/	Pass
		5785	/	/	1	18.533	/	Pass
		5825	/	/	1	18.580	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	37.423	/	Pass
		5230	/	/	1	37.455	/	Pass
		5755	/	/	1	37.560	/	Pass
		5795	/	/	1	37.182	/	Pass
802.11ac (VHT20)	SISO	5180	/	/	1	19.353	/	Pass
		5200	/	/	1	19.147	/	Pass
		5240	/	/	1	19.196	/	Pass
		5745	/	/	1	19.558	/	Pass
		5785	/	/	1	19.453	/	Pass
		5825	/	/	1	19.572	/	Pass
802.11ac (VHT40)	SISO	5190	/	/	1	37.370	/	Pass
		5230	/	/	1	37.299	/	Pass
		5755	/	/	1	37.747	/	Pass
		5795	/	/	1	37.728	/	Pass
802.11ax (HEW20)	SISO	5180	SU	/	1	19.664	/	Pass
		5200	SU	/	1	19.732	/	Pass
		5240	SU	/	1	19.688	/	Pass
		5745	SU	/	1	19.792	/	Pass
		5785	SU	/	1	19.974	/	Pass
		5825	SU	/	1	19.899	/	Pass
802.11ax (HEW40)	SISO	5190	SU	/	1	38.479	/	Pass
		5230	SU	/	1	38.566	/	Pass
		5755	SU	/	1	38.798	/	Pass
		5795	SU	/	1	38.914	/	Pass

2.1.2 26dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5180	/	/	1	24.600	/	Pass
		5200	/	/	1	26.160	/	Pass
		5240	/	/	1	26.369	/	Pass
802.11n (HT20)	SISO	5180	/	/	1	26.932	/	Pass
		5200	/	/	1	27.952	/	Pass

		5240	/	/	1	26.770	/	Pass
802.11n (HT40)	SISO	5190	/	/	1	46.714	/	Pass
		5230	/	/	1	47.316	/	Pass
		5180	/	/	1	27.241	/	Pass
802.11ac (VHT20)	SISO	5200	/	/	1	27.635	/	Pass
		5240	/	/	1	28.183	/	Pass
		5190	/	/	1	47.841	/	Pass
802.11ac (VHT40)	SISO	5230	/	/	1	48.657	/	Pass
		5180	SU	/	1	34.331	/	Pass
802.11ax (HEW20)	SISO	5200	SU	/	1	30.138	/	Pass
		5240	SU	/	1	30.495	/	Pass
		5190	SU	/	1	47.915	/	Pass
802.11ax (HEW40)	SISO	5230	SU	/	1	46.840	/	Pass

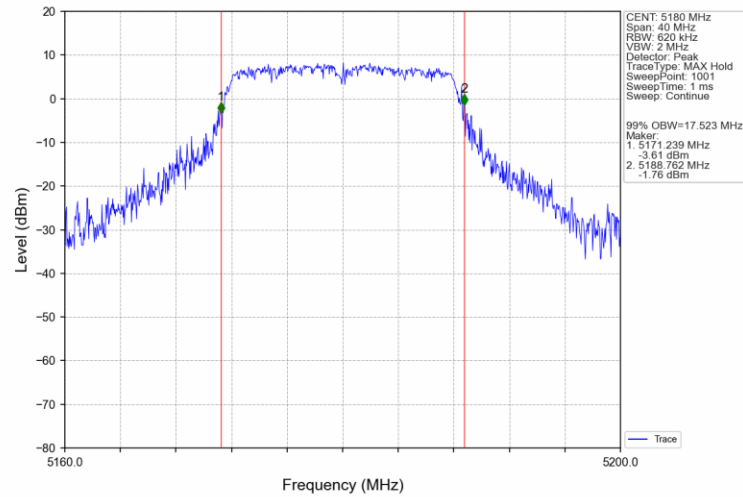
2.1.3 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5745	/	/	1	16.434	>=0.5	Pass
		5785	/	/	1	16.457	>=0.5	Pass
		5825	/	/	1	16.408	>=0.5	Pass
802.11n (HT20)	SISO	5745	/	/	1	16.405	>=0.5	Pass
		5785	/	/	1	16.438	>=0.5	Pass
		5825	/	/	1	16.408	>=0.5	Pass
802.11n (HT40)	SISO	5755	/	/	1	36.358	>=0.5	Pass
		5795	/	/	1	35.814	>=0.5	Pass
802.11ac (VHT20)	SISO	5745	/	/	1	17.647	>=0.5	Pass
		5785	/	/	1	17.644	>=0.5	Pass
		5825	/	/	1	17.674	>=0.5	Pass
802.11ac (VHT40)	SISO	5755	/	/	1	36.407	>=0.5	Pass
		5795	/	/	1	36.394	>=0.5	Pass
802.11ax (HEW20)	SISO	5745	SU	/	1	18.998	>=0.5	Pass
		5785	SU	/	1	18.894	>=0.5	Pass
		5825	SU	/	1	18.996	>=0.5	Pass
802.11ax (HEW40)	SISO	5755	SU	/	1	38.036	>=0.5	Pass
		5795	SU	/	1	38.005	>=0.5	Pass

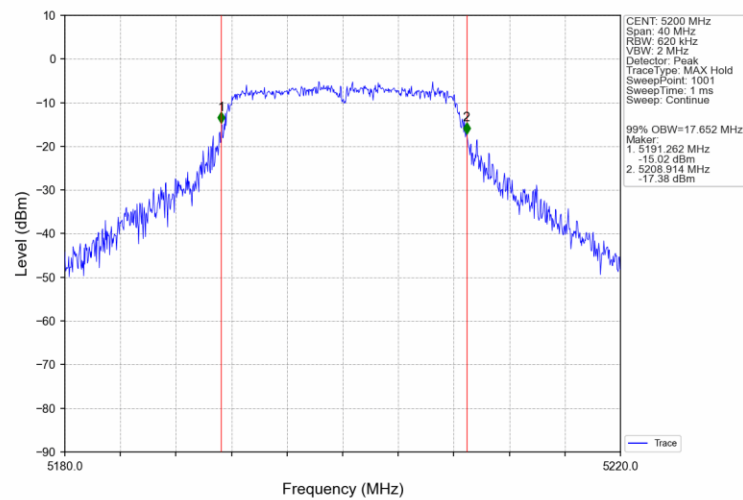
2.2 Test Graph

2.2.1 OBW

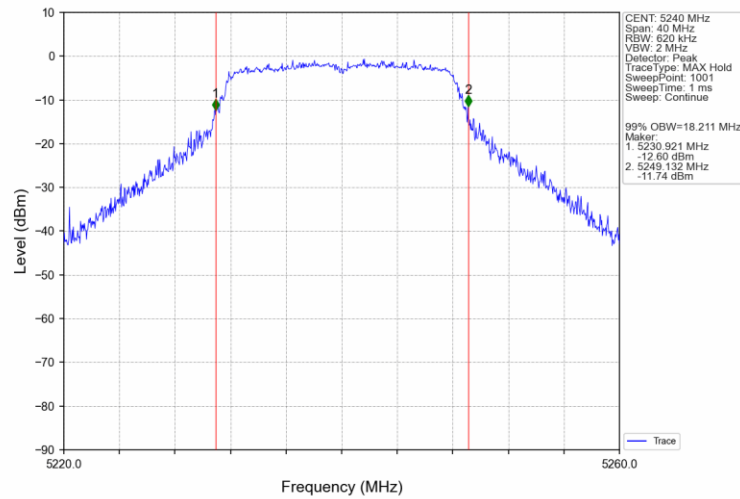
802.11a_LCH_5180MHz_Ant1_NTNV



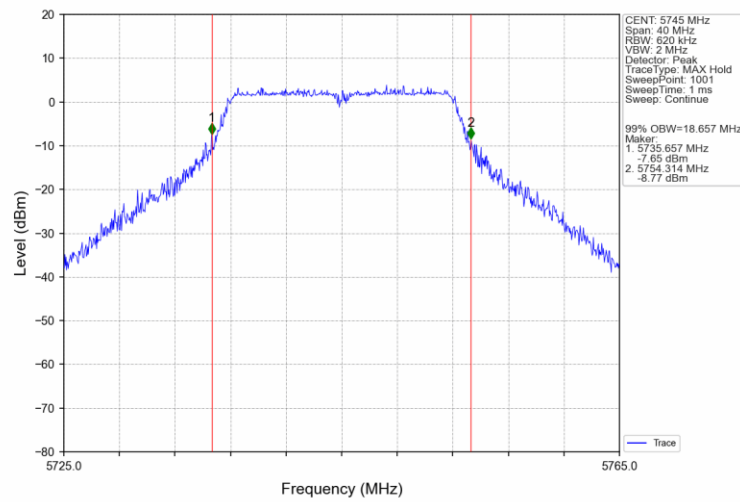
802.11a_MCH_5200MHz_Ant1_NTNV



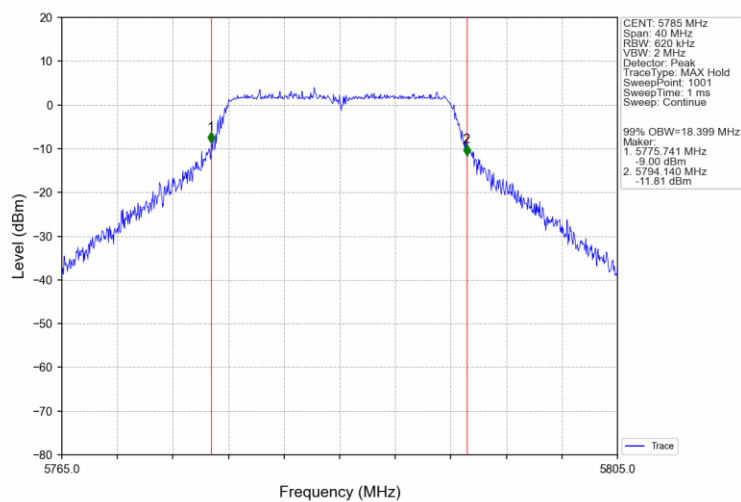
802.11a_HCH_5240MHz_Ant1_NTNV



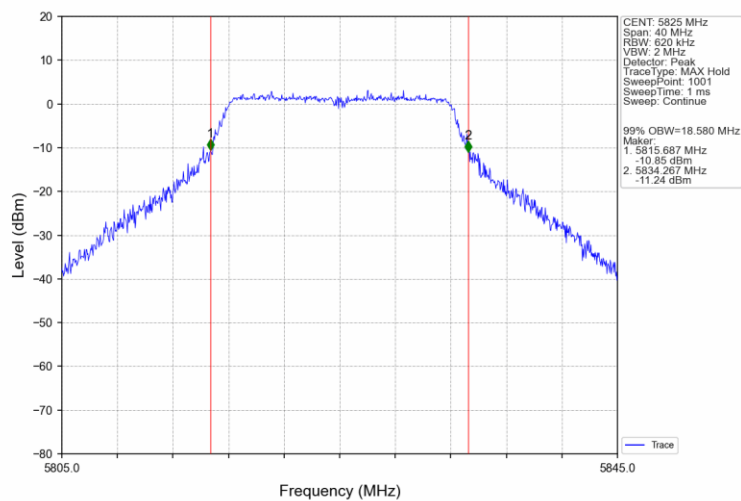
802.11a_LCH_5745MHz_Ant1_NTNV



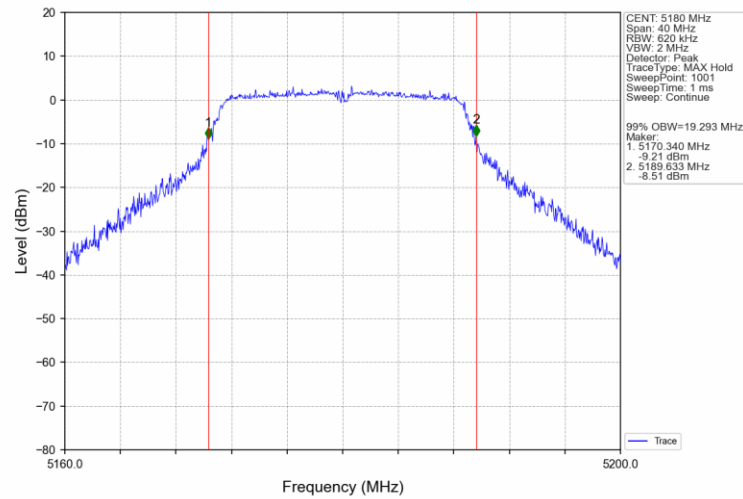
802.11a_MCH_5785MHz_Ant1_NTNV



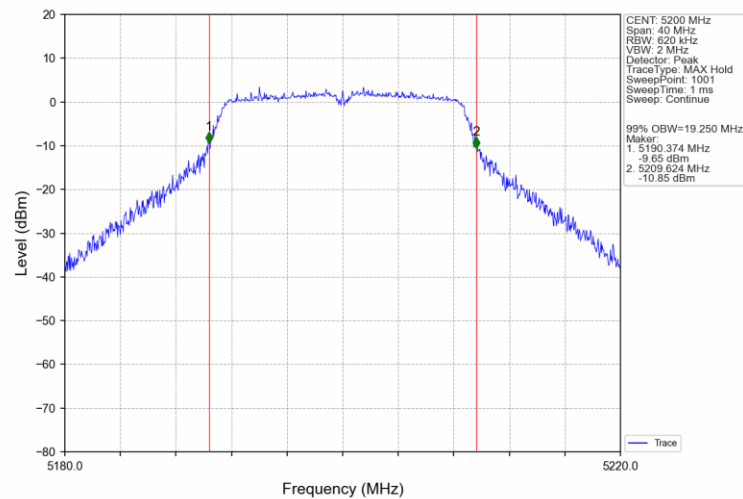
802.11a_HCH_5825MHz_Ant1_NTNV



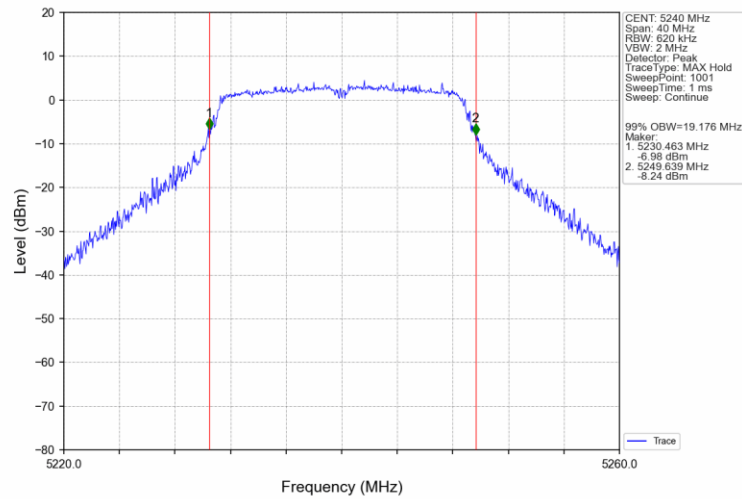
802.11n(HT20) LCH 5180MHz Ant1 NTN



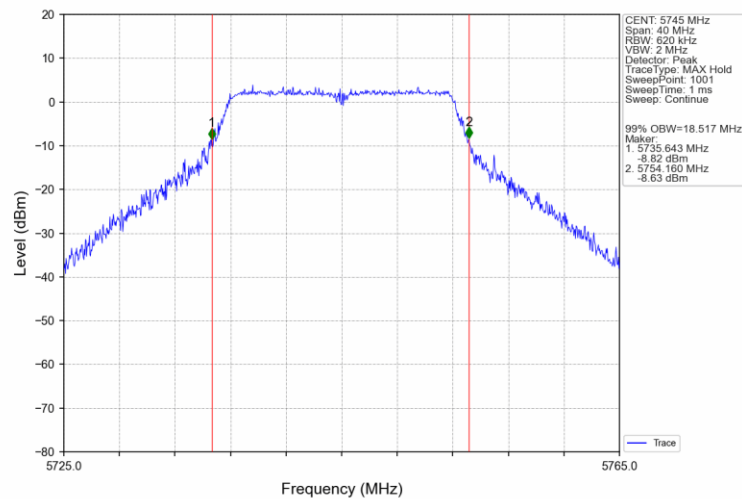
802.11n(HT20) MCH 5200MHz Ant1 NTN



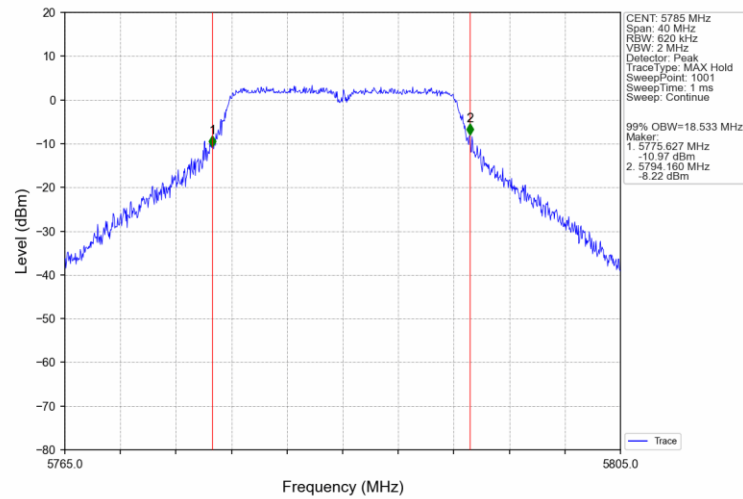
802.11n(HT20) HCH 5240MHz Ant1 NTN



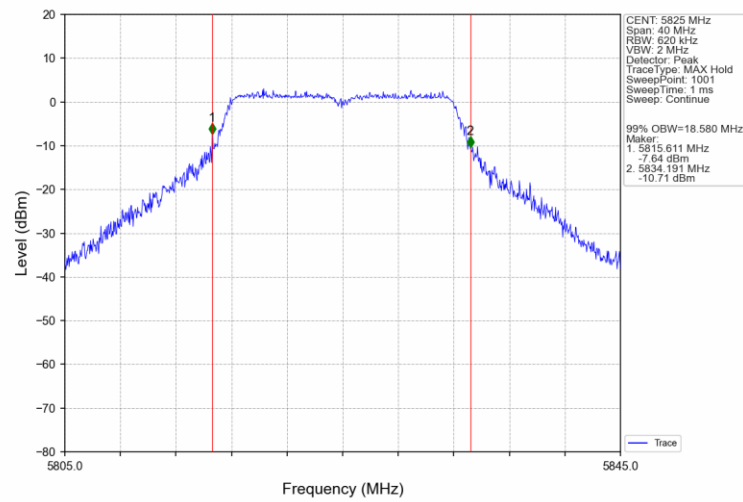
802.11n(HT20) LCH 5745MHz Ant1 NTN



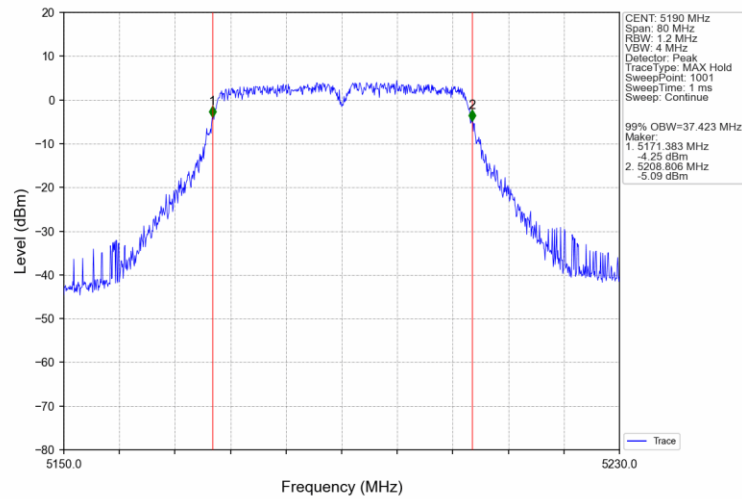
802.11n(HT20) MCH 5785MHz Ant1 NTNv



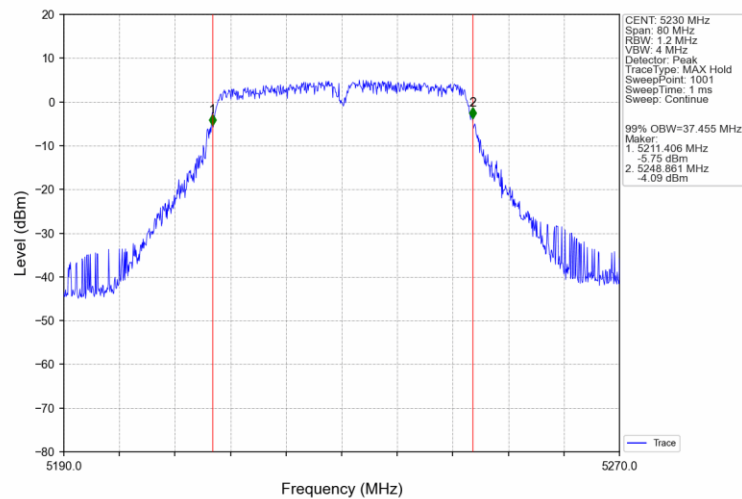
802.11n(HT20) HCH 5825MHz Ant1 NTNv



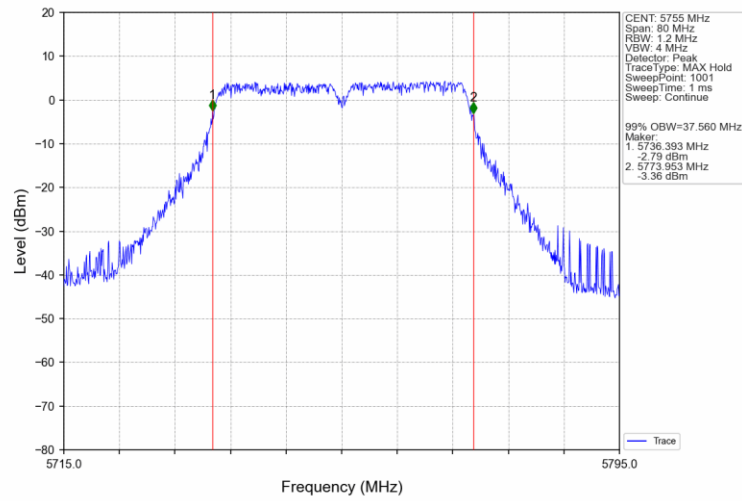
802.11n(HT40) LCH 5190MHz Ant1 NTN



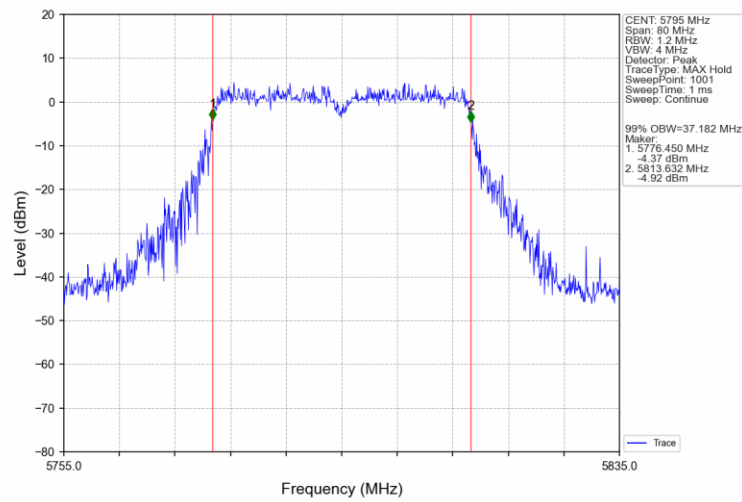
802.11n(HT40) HCH 5230MHz Ant1 NTN



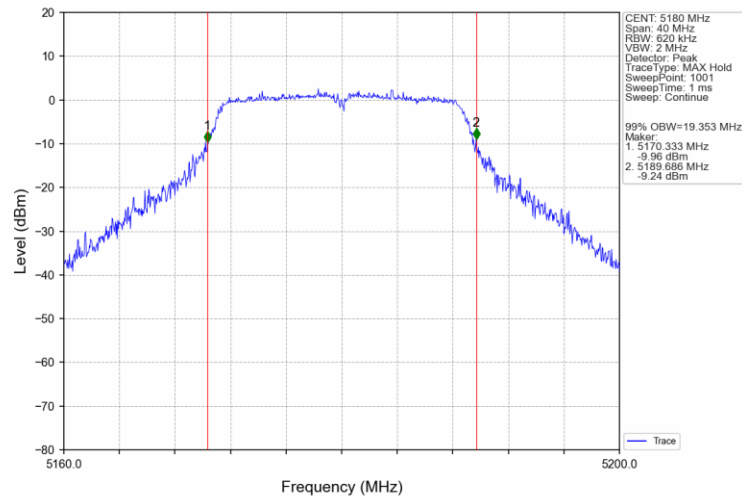
802.11n(HT40) LCH 5755MHz Ant1 NTN



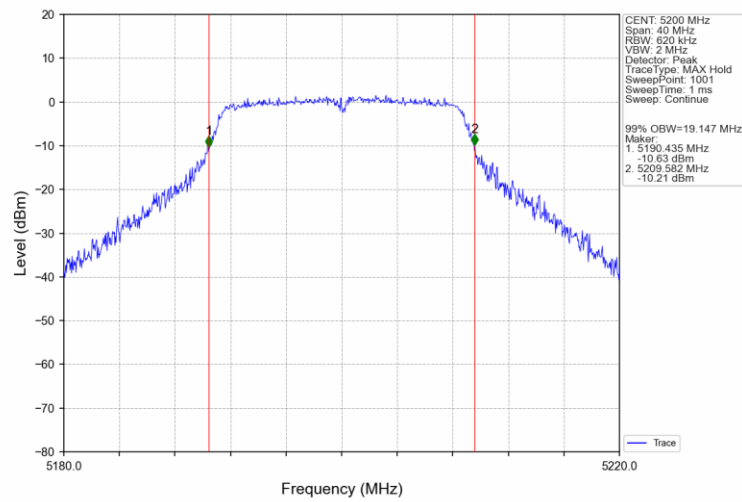
802.11n(HT40) HCH 5795MHz Ant1 NTN



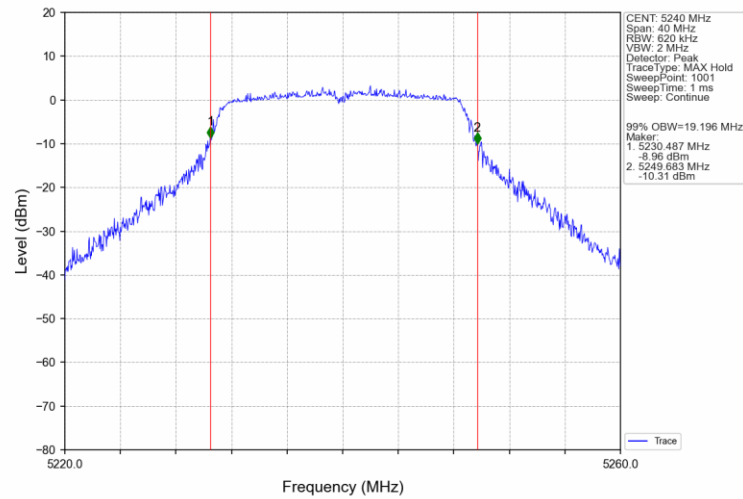
802.11ac(VHT20) LCH 5180MHz Ant1 NTN



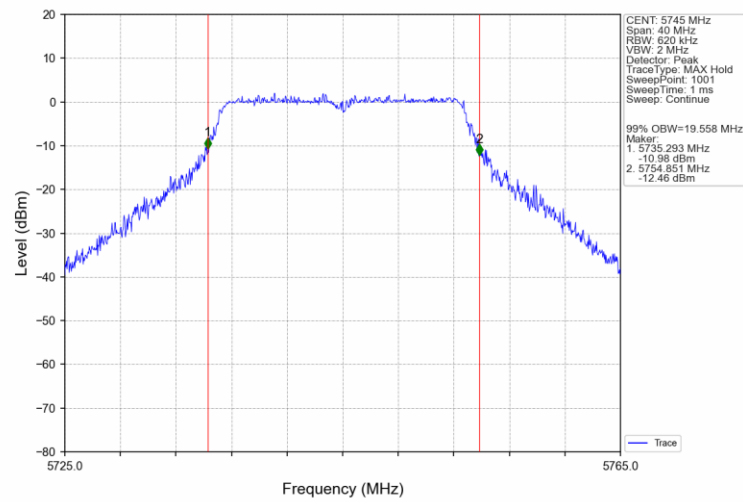
802.11ac(VHT20) MCH 5200MHz Ant1 NTN



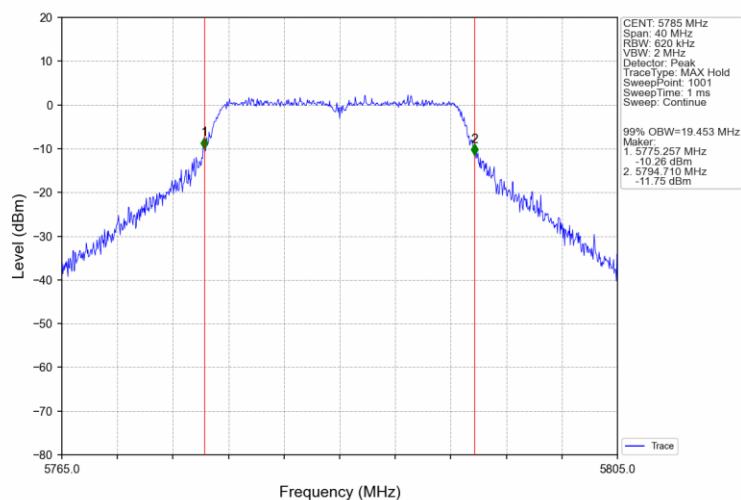
802.11ac(VHT20) HCH 5240MHz Ant1 NTN



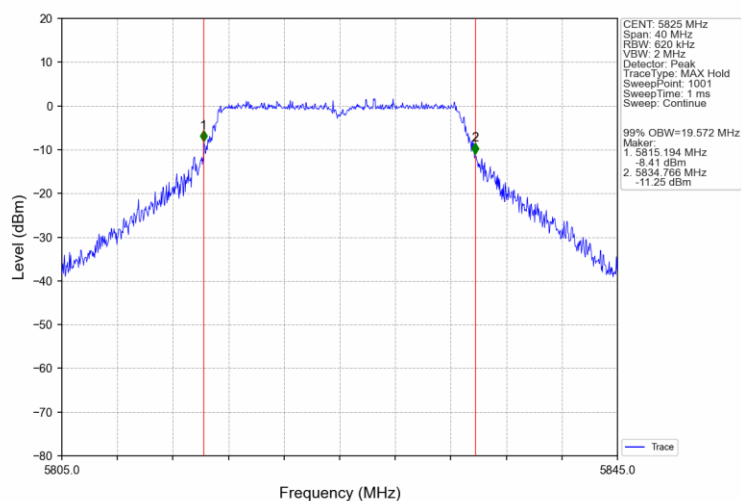
802.11ac(VHT20) LCH 5745MHz Ant1 NTN



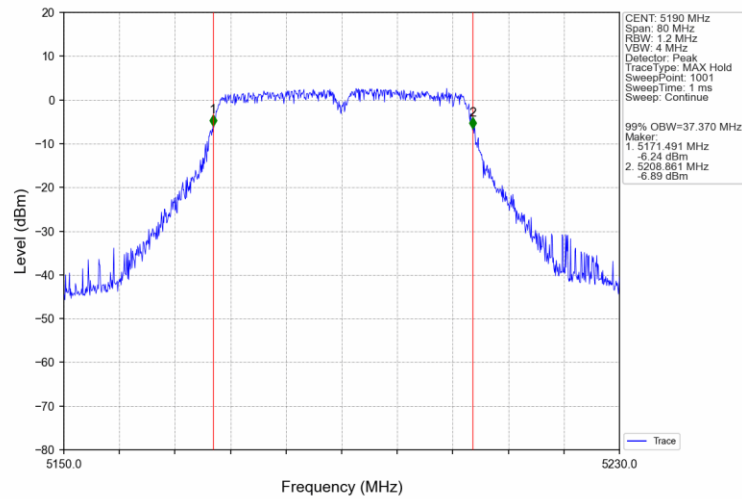
802.11ac(VHT20) MCH 5785MHz Ant1 NTN



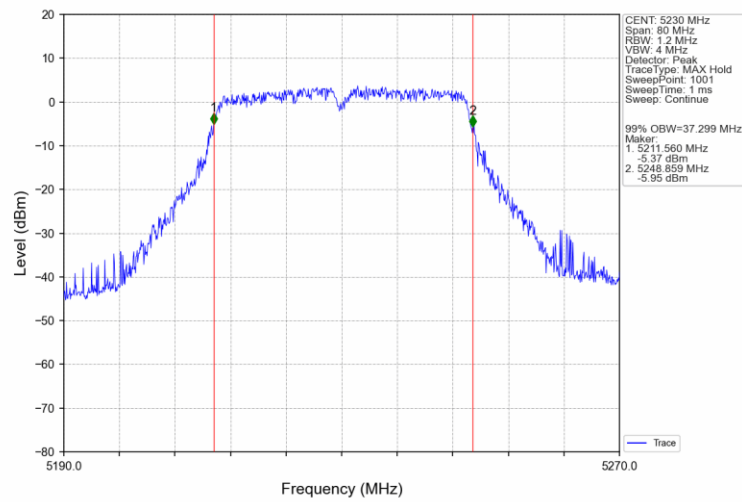
802.11ac(VHT20) HCH 5825MHz Ant1 NTN



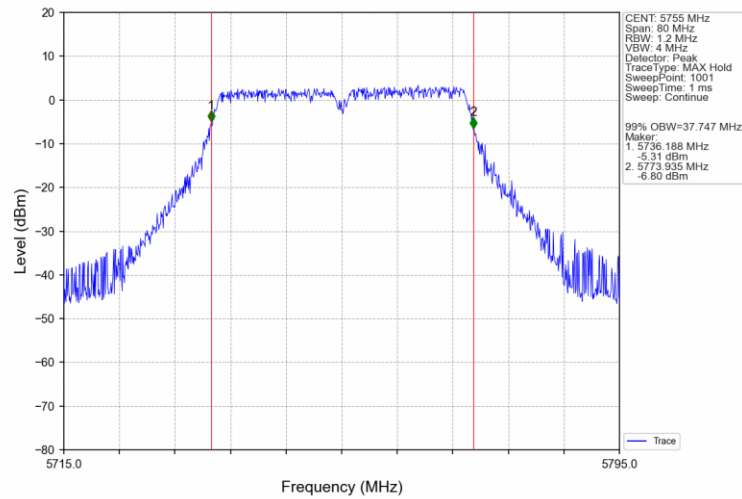
802.11ac(VHT40) LCH 5190MHz Ant1 NTN



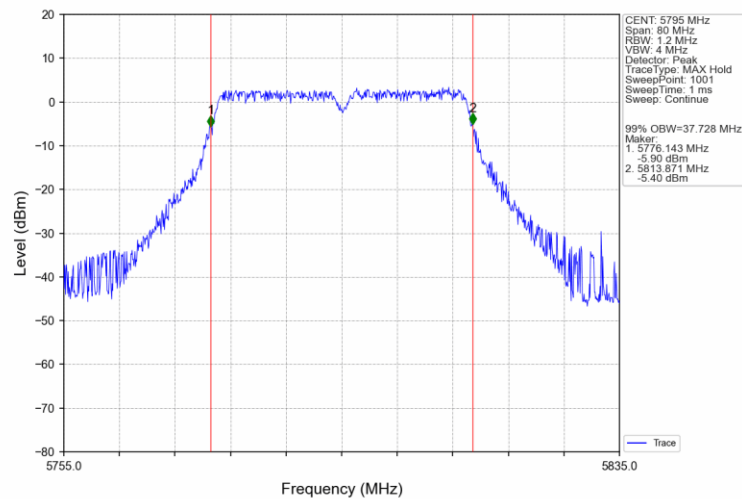
802.11ac(VHT40) HCH 5230MHz Ant1 NTN



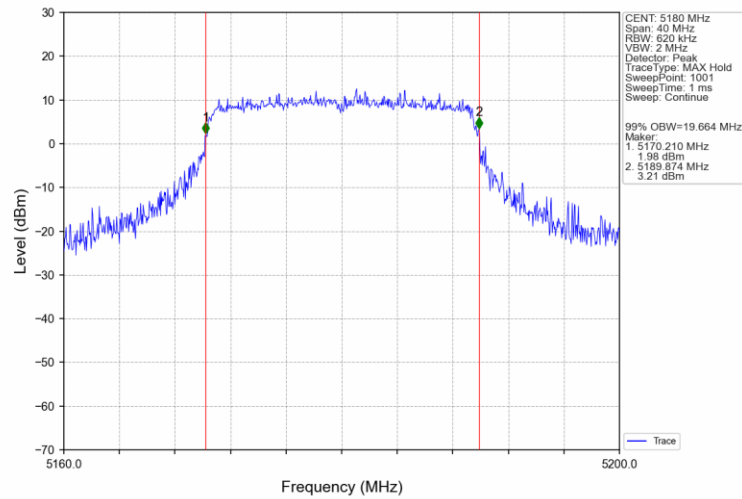
802.11ac(VHT40) LCH 5755MHz Ant1 NTN



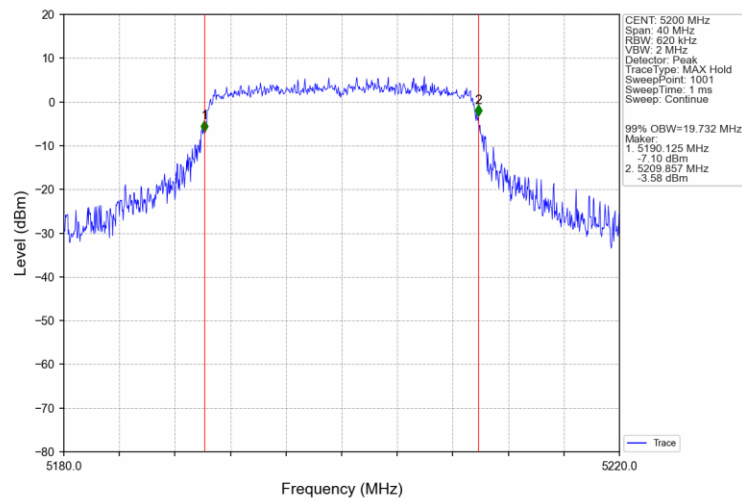
802.11ac(VHT40) HCH 5795MHz Ant1 NTN



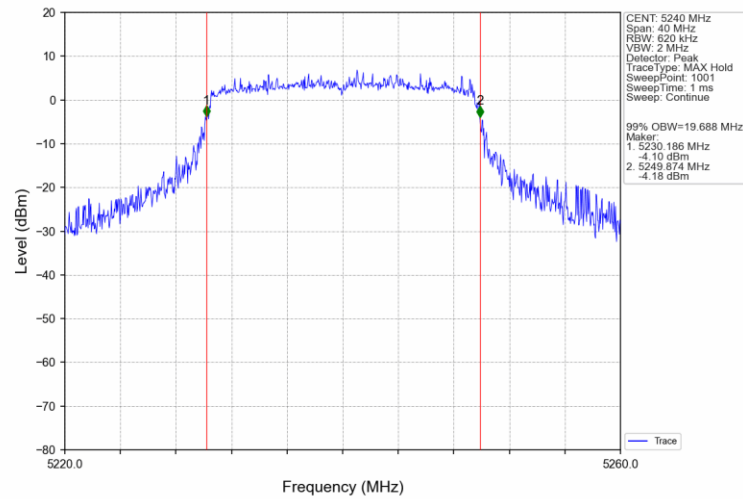
802.11ax(HEW20) LCH 5180MHz SU / Ant1 NTNv



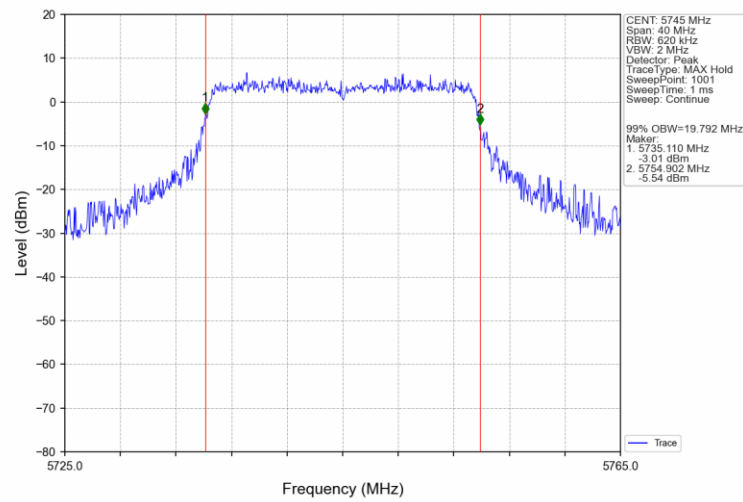
802.11ax(HEW20) MCH 5200MHz SU / Ant1 NTNv



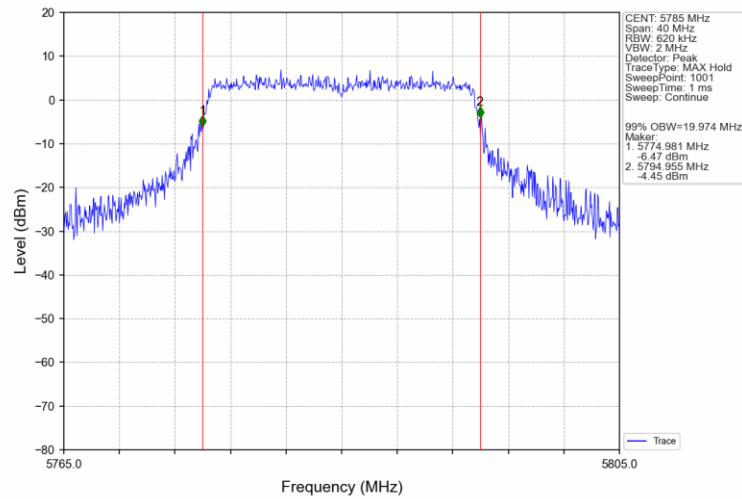
802.11ax(HEW20) HCH 5240MHz SU / Ant1 NTN



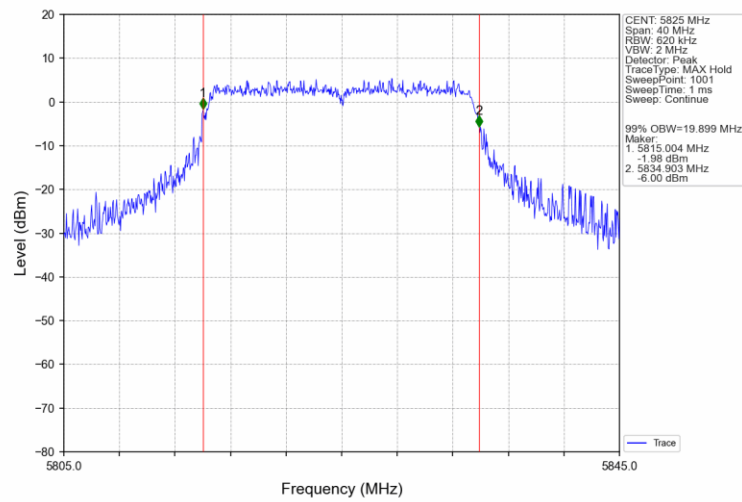
802.11ax(HEW20) LCH 5745MHz SU / Ant1 NTN



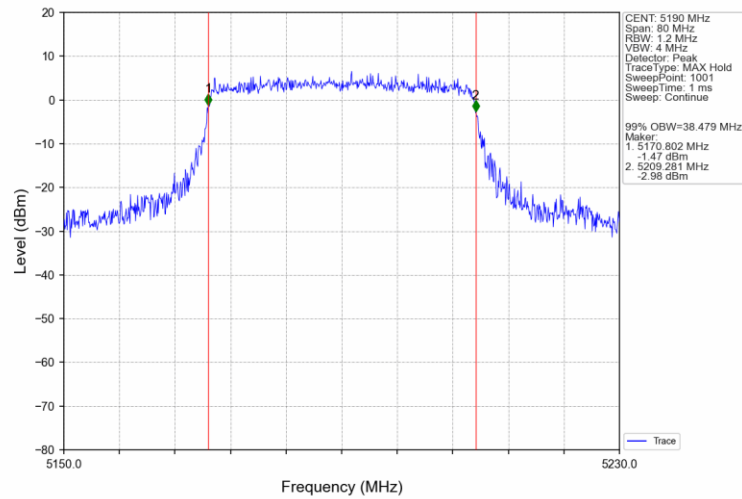
802.11ax(HEW20) MCH 5785MHz SU / Ant1 NTNv



802.11ax(HEW20) HCH 5825MHz SU / Ant1 NTNv



802.11ax(HEW40) LCH 5190MHz SU / Ant1 NTN



802.11ax(HEW40) HCH 5230MHz SU / Ant1 NTN

