



WIFI 6
1. Duty Cycle
1.1 Test Result
1.1.1 Ant1

Ant1								
ENV	Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11a	MIMO	5955	1.977	1.993	99.20	0.04	0.00



2. Bandwidth

2.1 Test Result

2.1.1 OBW

ENV	Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
NTNV	802.11a	MIMO	5955	1	17.393	<=320	Pass
			6175	1	17.361	<=320	Pass
			6415	1	17.364	<=320	Pass

2.1.2 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
					Result	Limit	
NTNV	802.11a	MIMO	5955	1	22.145	/	Pass
			6175	1	22.227	/	Pass
			6415	1	22.963	/	Pass

2.1.3 OBW

ENV	Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
NTNV	802.11a	MIMO	6435	1	17.447	<=320	Pass
			6475	1	17.406	<=320	Pass
			6515	1	17.347	<=320	Pass

2.1.4 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
					Result	Limit	
NTNV	802.11a	MIMO	6435	1	22.378	/	Pass
			6475	1	22.984	/	Pass
			6515	1	22.050	/	Pass

2.1.5 OBW

ENV	Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
NTNV	802.11a	MIMO	6535	1	17.424	<=320	Pass
			6695	1	17.390	<=320	Pass
			6855	1	17.402	<=320	Pass

2.1.6 26dB BW



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ENV	Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
					Result	Limit	
NTNV	802.11a	MIMO	6535	1	22.308	/	Pass
			6695	1	22.229	/	Pass
			6855	1	22.956	/	Pass

2.1.7 OBW

ENV	Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
NTNV	802.11a	MIMO	6895	1	17.441	<=320	Pass
			6995	1	17.364	<=320	Pass
			7115	1	17.352	<=320	Pass

2.1.8 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
					Result	Limit	
NTNV	802.11a	MIMO	6895	1	23.070	/	Pass
			6995	1	22.979	/	Pass
			7115	1	22.247	/	Pass

2.1.9 OBW

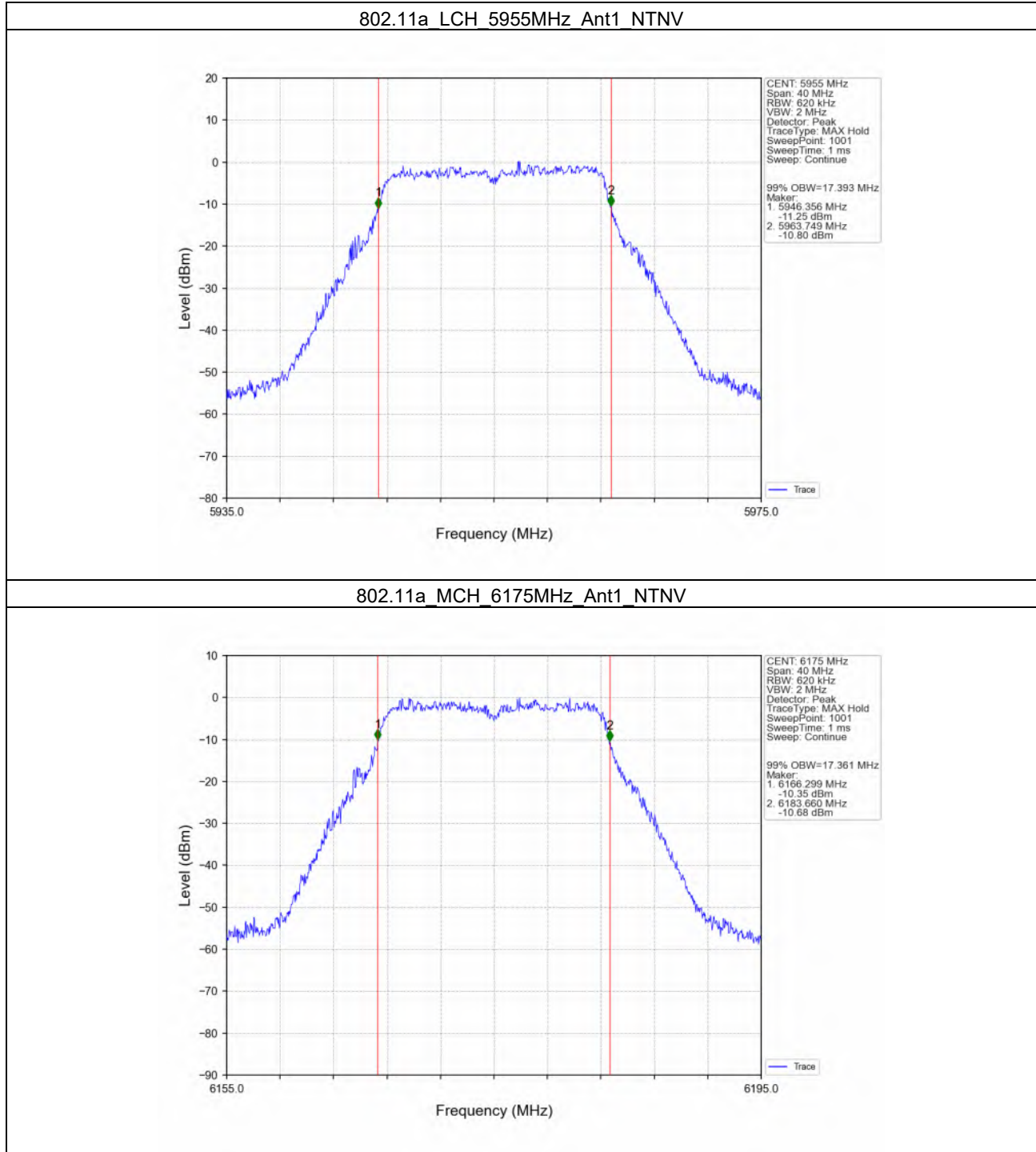
ENV	Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
NTNV	802.11a	MIMO	6875	1	17.404	<=320	Pass

2.1.10 26dB BW

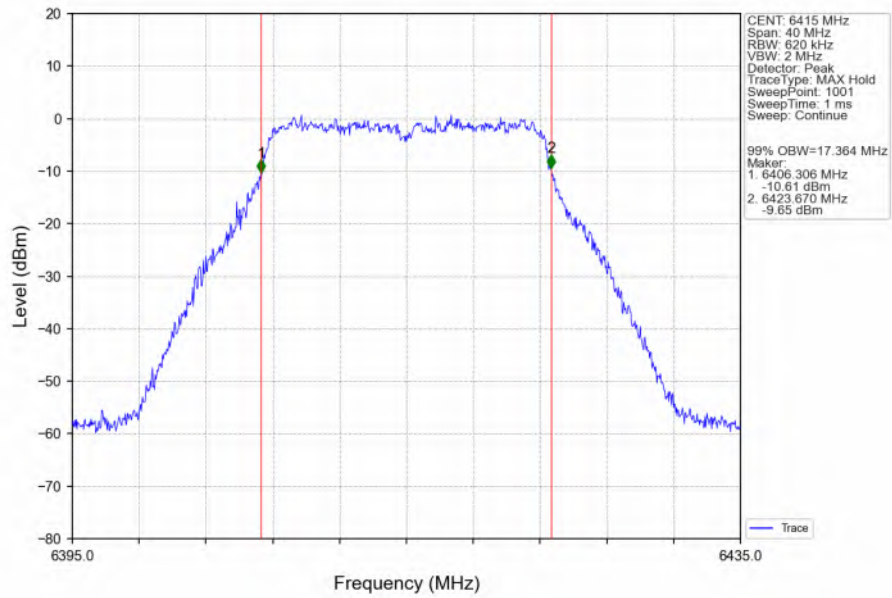
ENV	Mode	TX Type	Frequency (MHz)	ANT	26dB Bandwidth (MHz)		Verdict
					Result	Limit	
NTNV	802.11a	MIMO	6875	1	22.480	/	Pass

2.2 Test Graph

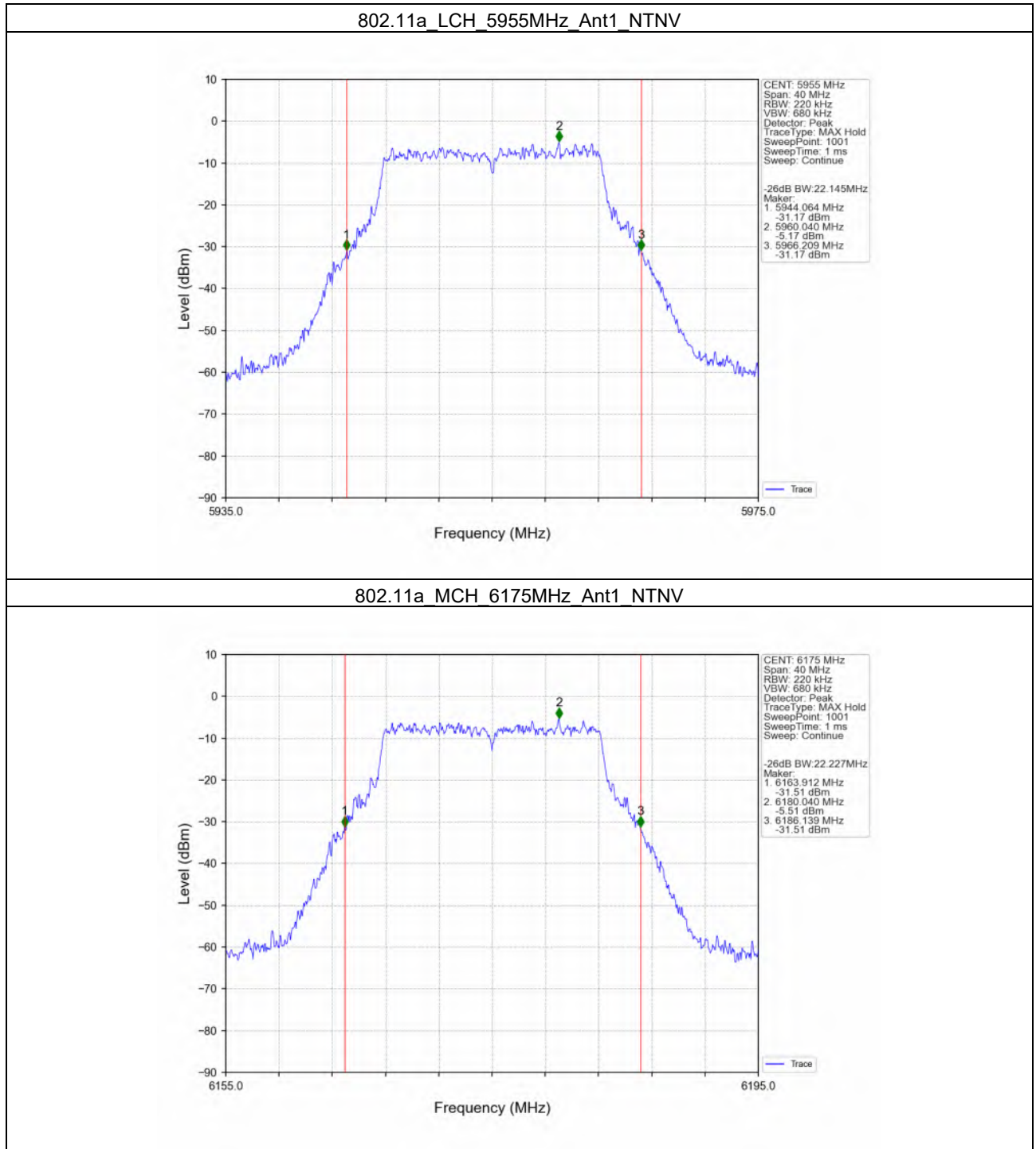
2.2.1 OBW



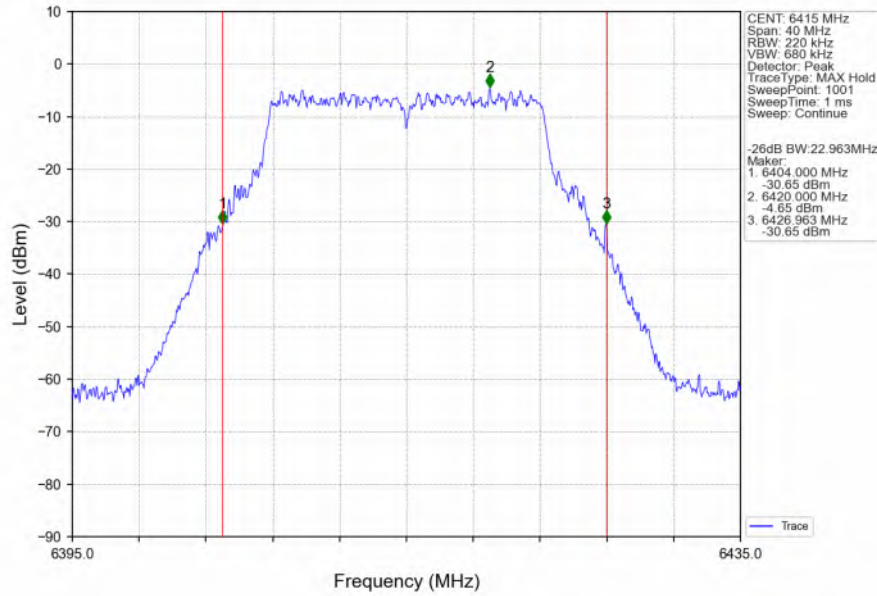
802.11a_HCH_6415MHz_Ant1_NTNV



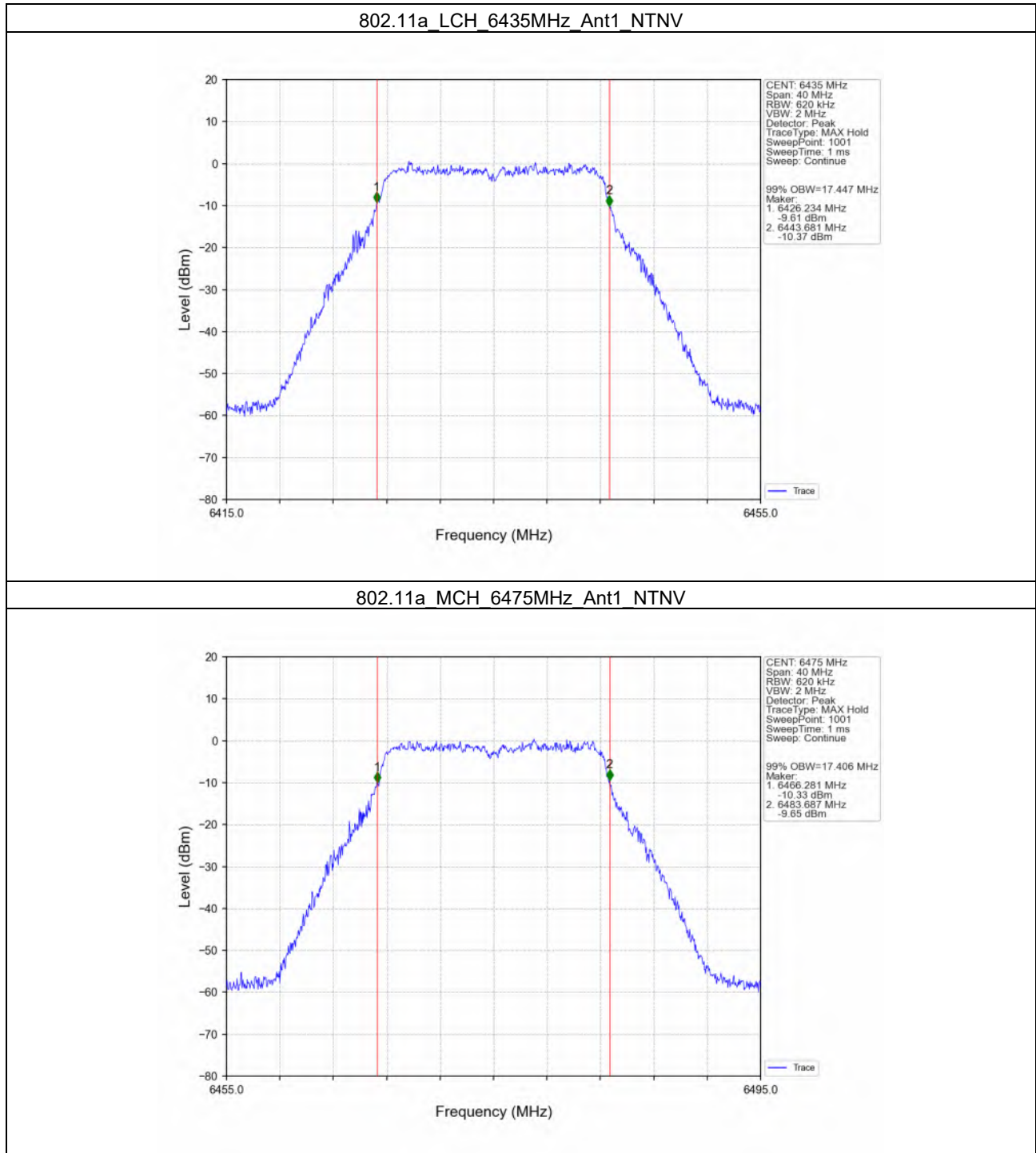
2.2.2 26dB BW



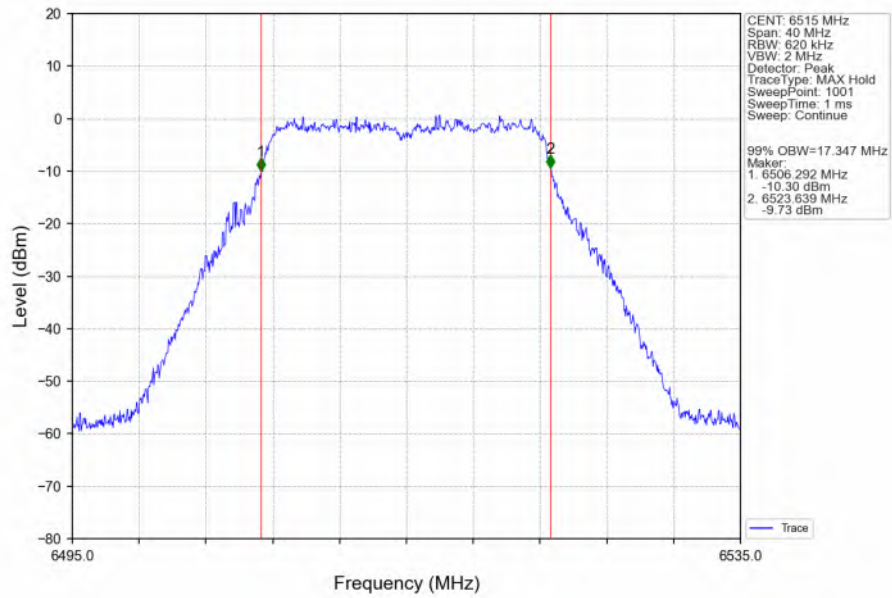
802.11a_HCH_6415MHz_Ant1_NTNV



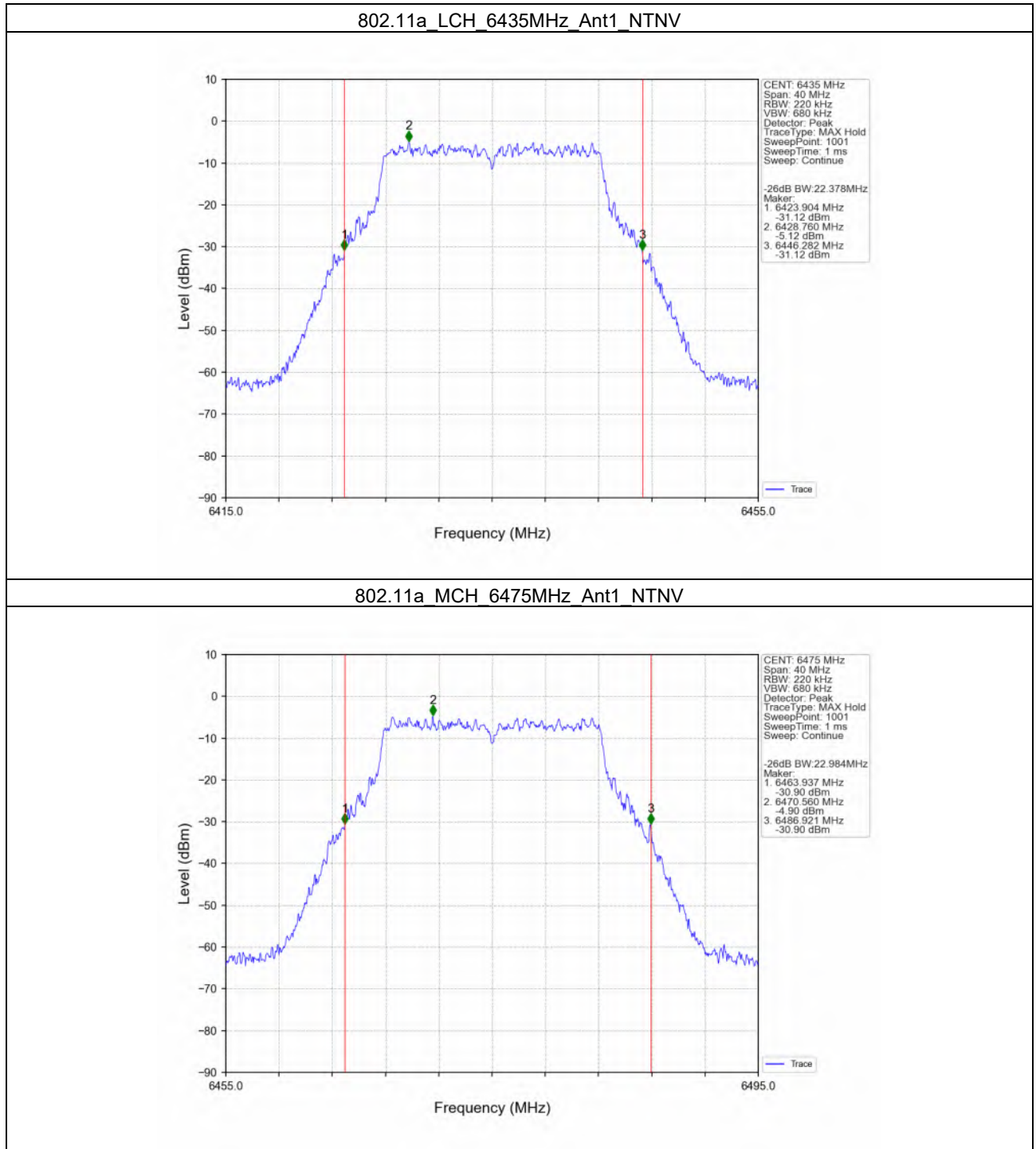
2.2.3 OBW



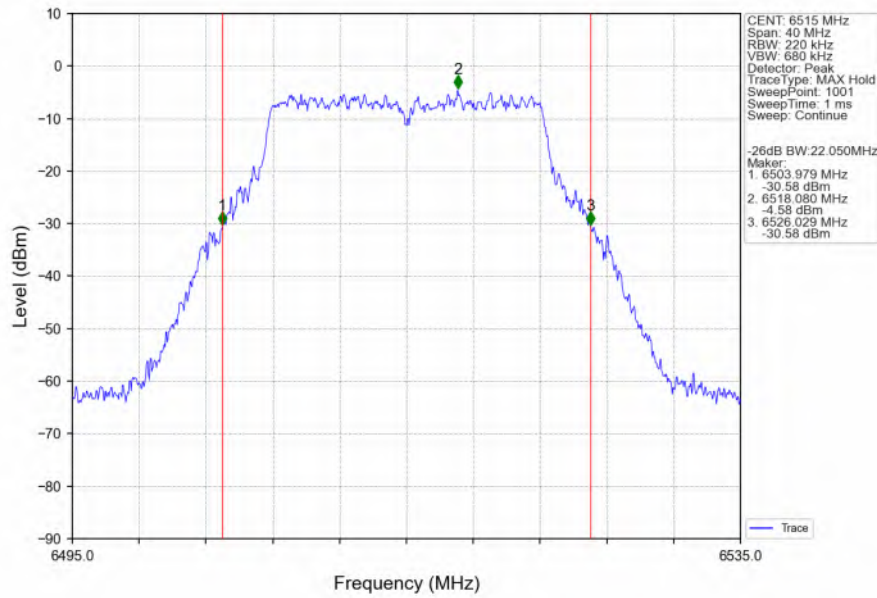
802.11a_HCH_6515MHz_Ant1_NTNV



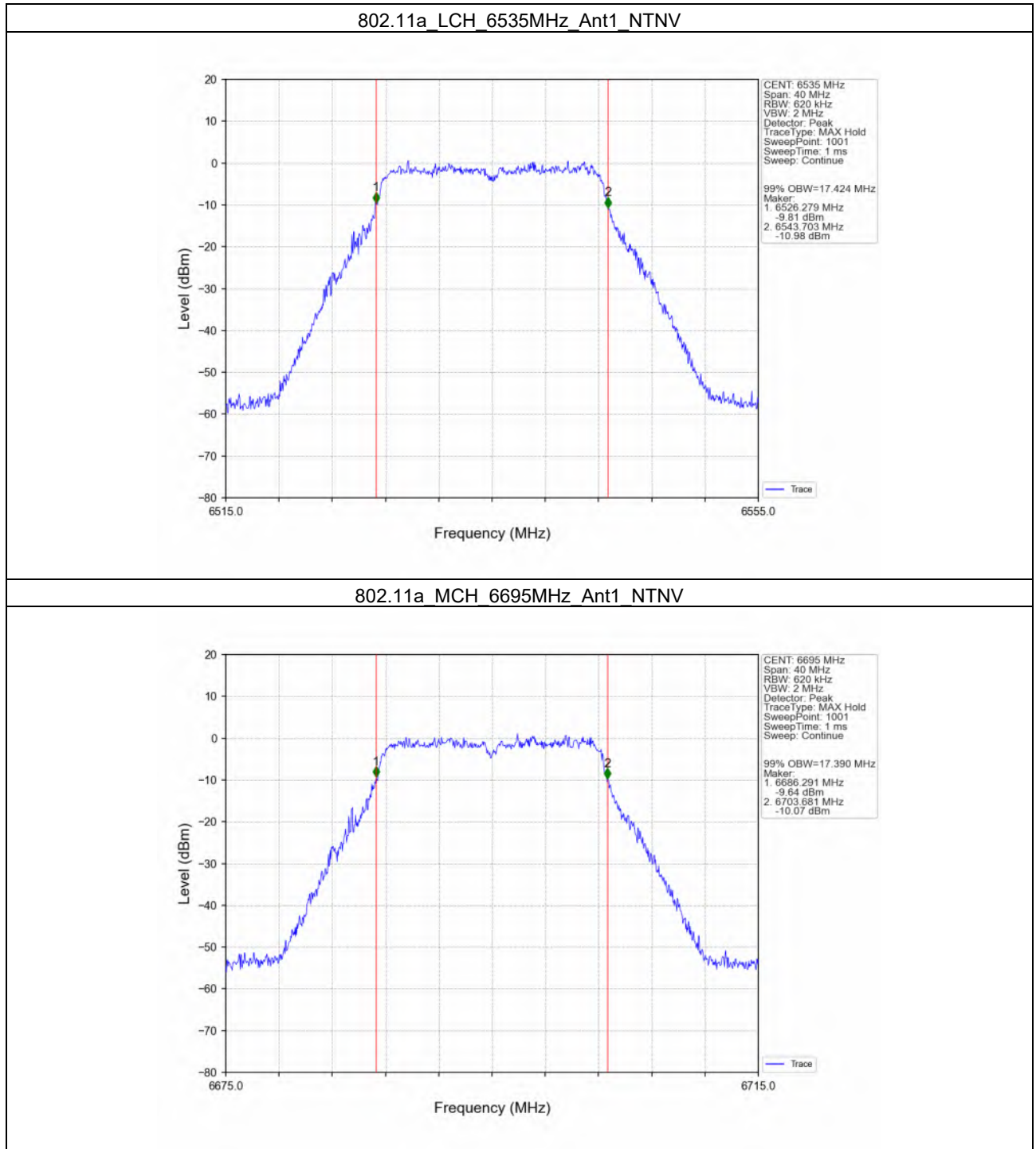
2.2.4 26dB BW

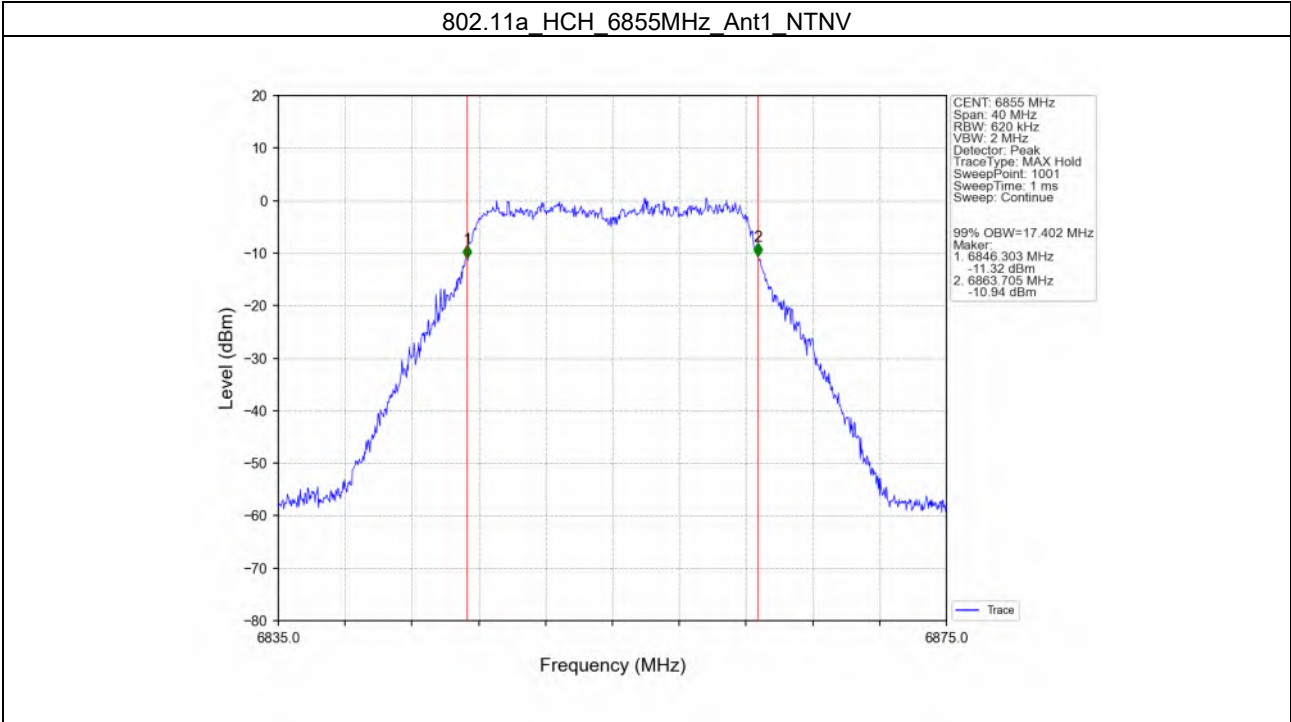


802.11a_HCH_6515MHz_Ant1_NTNV

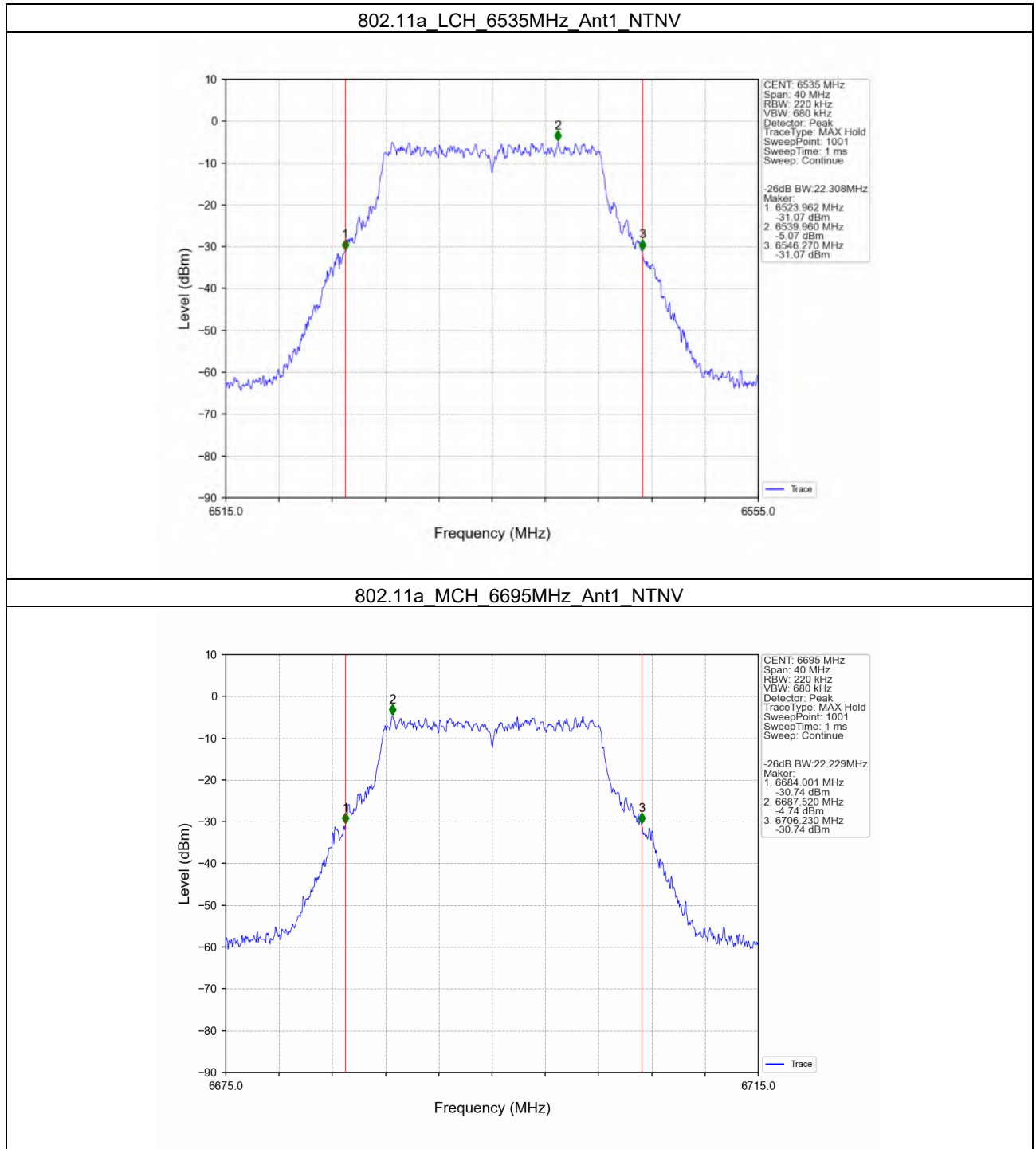


2.2.5 OBW

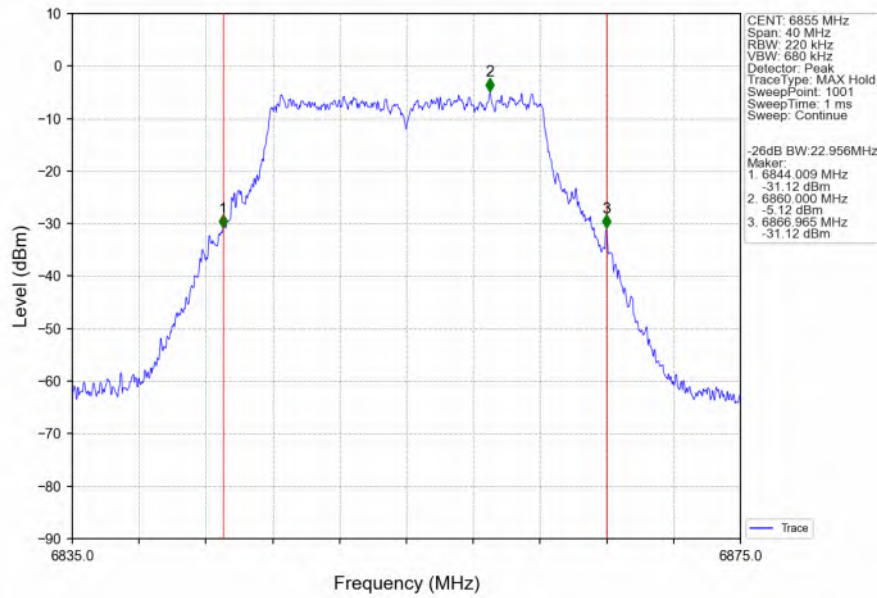




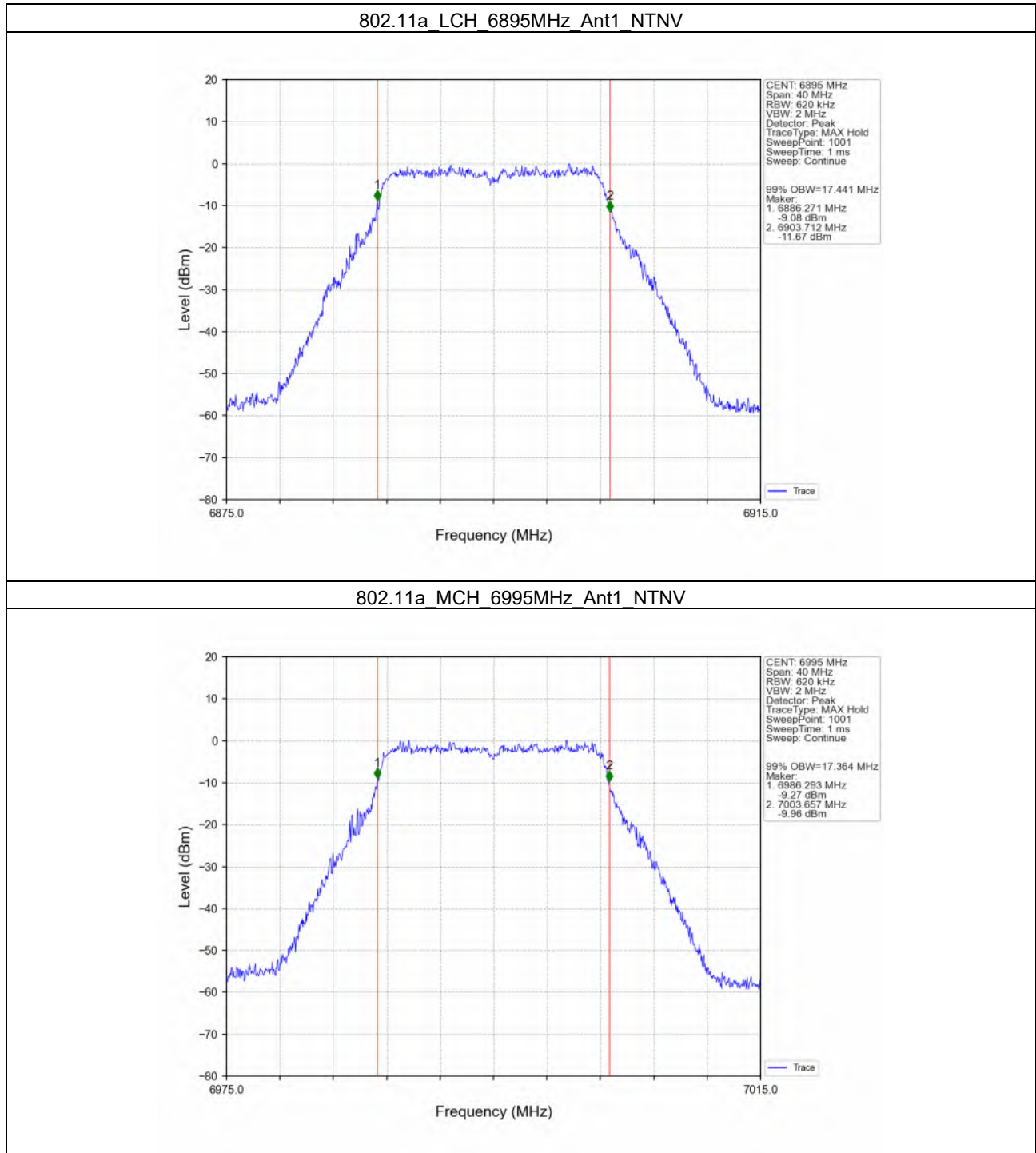
2.2.6 26dB BW

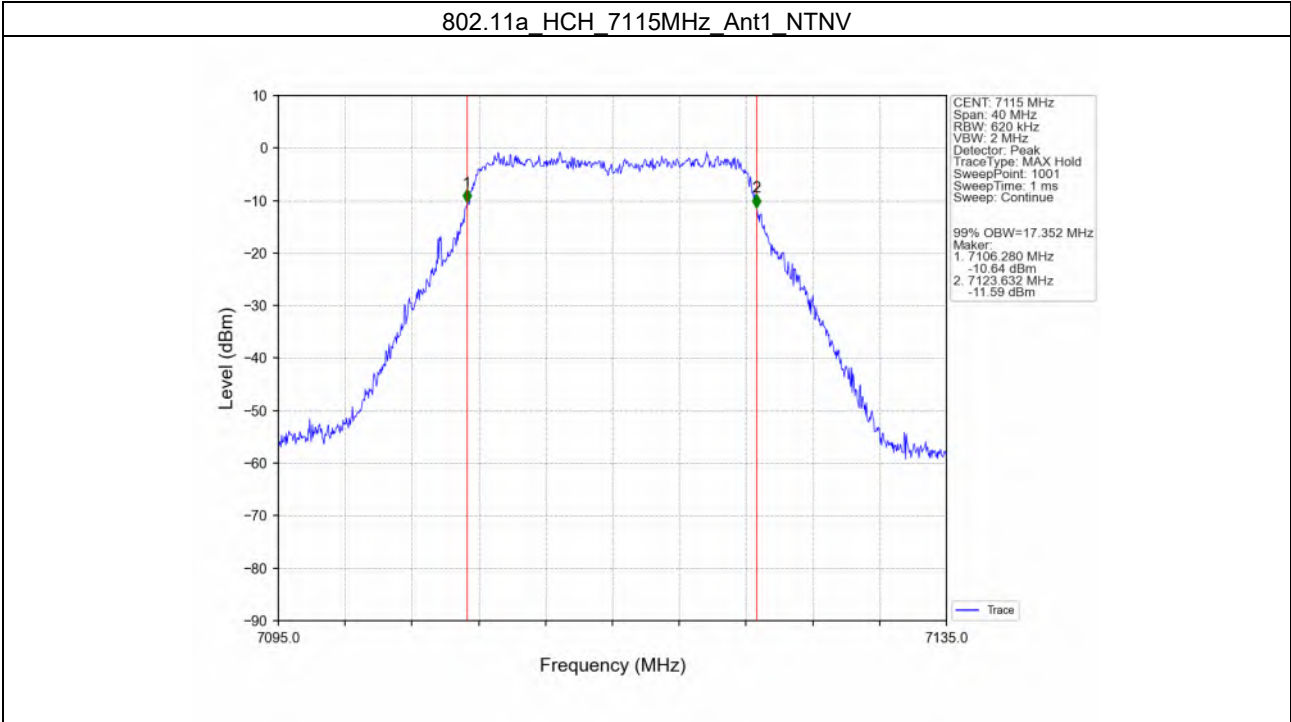


802.11a_HCH_6855MHz_Ant1_NTNV

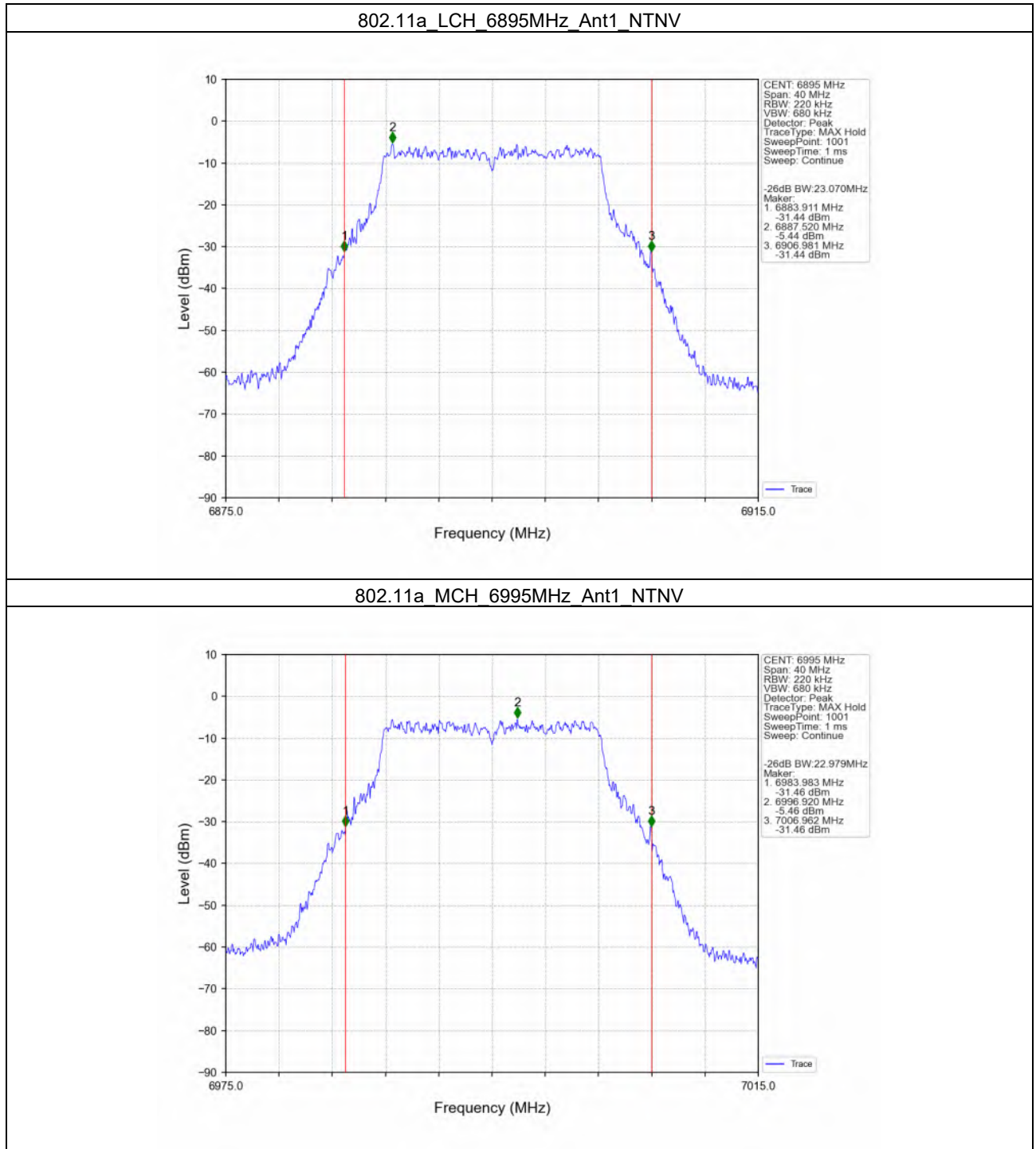


2.2.7 OBW

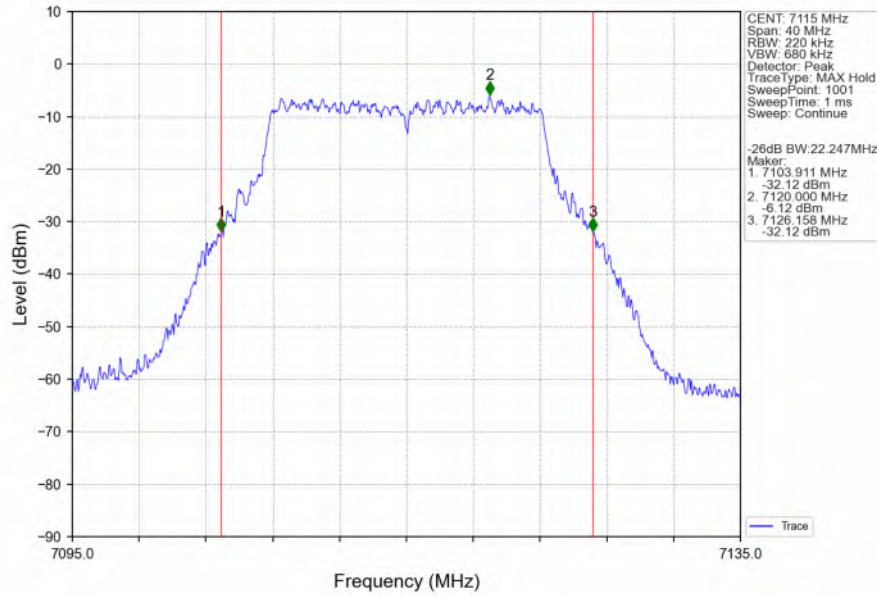




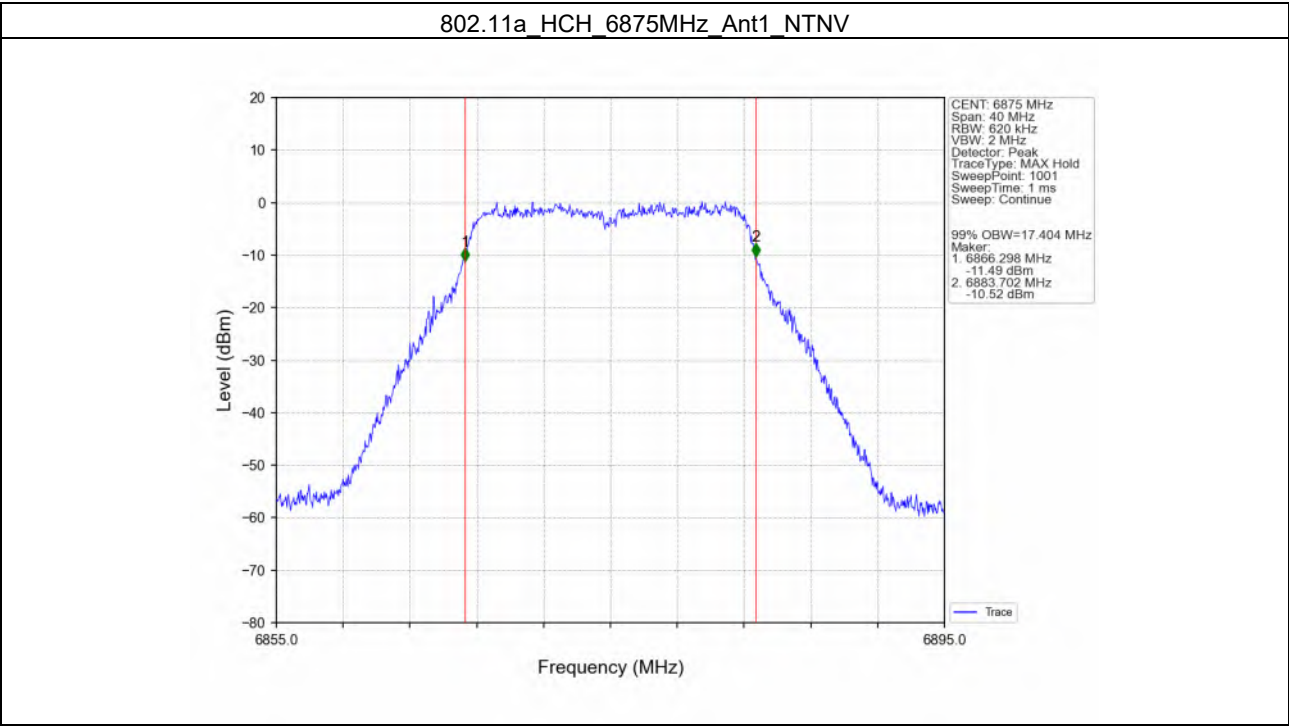
2.2.8 26dB BW



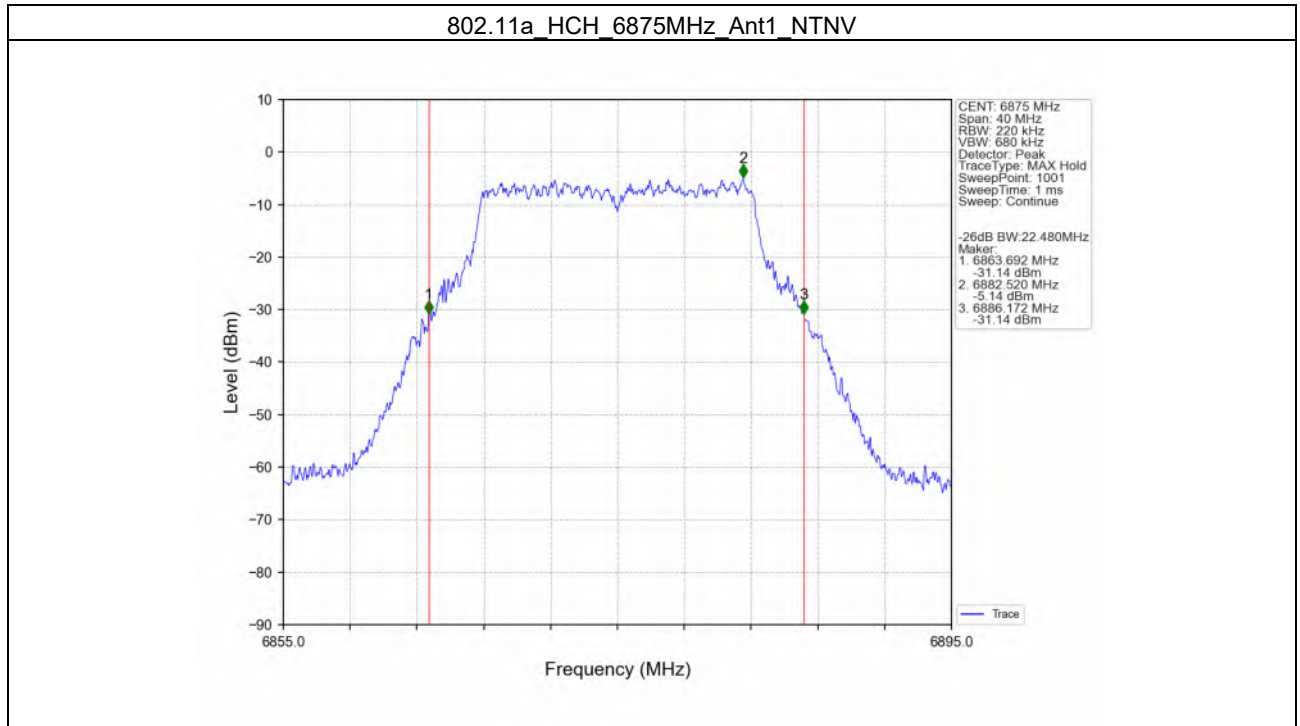
802.11a_HCH_7115MHz_Ant1_NTNV



2.2.9 OBW



2.2.10 26dB BW





3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	5955	/	/	4.41	4.38	7.41	/	Pass
			6175	/	/	4.34	4.44	7.40	/	Pass
			6415	/	/	5.19	4.63	7.93	/	Pass
	802.11n (HT20)	MIMO	5955	/	/	4.53	4.34	7.45	/	Pass
			6175	/	/	3.70	3.46	6.59	/	Pass
			6415	/	/	3.74	3.83	6.80	/	Pass
	802.11n (HT40)	MIMO	5965	/	/	7.57	7.61	10.60	/	Pass
			6165	/	/	6.64	6.75	9.71	/	Pass
			6405	/	/	7.14	7.26	10.21	/	Pass
	802.11ac (VHT20)	MIMO	5955	/	/	5.32	6.03	8.70	/	Pass
			6175	/	/	4.53	5.39	7.99	/	Pass
			6415	/	/	4.93	5.62	8.30	/	Pass
	802.11ac (VHT40)	MIMO	5965	/	/	7.65	7.80	10.74	/	Pass
			6165	/	/	6.81	7.87	10.38	/	Pass
			6405	/	/	6.39	7.04	9.74	/	Pass
	802.11ac (VHT80)	MIMO	5985	/	/	10.21	11.33	13.82	/	Pass
			6145	/	/	9.75	10.27	13.03	/	Pass
			6385	/	/	11.35	12.57	15.01	/	Pass
	802.11ac (VHT160)	MIMO	6025	/	/	13.64	14.37	17.03	/	Pass
			6185	/	/	12.88	13.80	16.37	/	Pass
			6345	/	/	13.10	14.05	16.61	/	Pass
	802.11ax (HEW20)	MIMO	5955	SU	/	4.17	4.83	7.52	/	Pass
			6175	SU	/	4.38	5.30	7.87	/	Pass
			6415	SU	/	4.62	5.21	7.94	/	Pass
	802.11ax (HEW40)	MIMO	5965	SU	/	7.14	7.22	10.19	/	Pass
			6165	SU	/	7.26	7.34	10.31	/	Pass
			6405	SU	/	7.76	8.45	11.13	/	Pass
	802.11ax (HEW80)	MIMO	5985	SU	/	11.09	11.11	14.11	/	Pass
			6145	SU	/	9.23	9.57	12.41	/	Pass
			6385	SU	/	10.27	11.44	13.90	/	Pass
	802.11ax (HEW160)	MIMO	6025	SU	/	14.01	13.12	16.60	/	Pass
			6185	SU	/	13.47	12.54	16.04	/	Pass
			6345	SU	/	13.79	12.67	16.28	/	Pass

3.1.2 EIRP

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	E.I.R.P (dBm)				Verdict
						ANT1	ANT2	MIMO	Limit	

NTNV	802.11a	MIMO	5955	/	/	8.71	8.58	11.71	<=30	Pass
			6175	/	/	8.64	8.64	11.70	<=30	Pass
			6415	/	/	9.49	8.83	12.23	<=30	Pass
	802.11n (HT20)	MIMO	5955	/	/	8.83	8.54	11.75	<=30	Pass
			6175	/	/	8.00	7.66	10.89	<=30	Pass
			6415	/	/	8.04	8.03	11.10	<=30	Pass
	802.11n (HT40)	MIMO	5965	/	/	11.87	11.81	14.90	<=30	Pass
			6165	/	/	10.94	10.95	14.01	<=30	Pass
			6405	/	/	11.44	11.46	14.51	<=30	Pass
	802.11ac (VHT20)	MIMO	5955	/	/	9.62	10.23	13.00	<=30	Pass
			6175	/	/	8.83	9.59	12.29	<=30	Pass
			6415	/	/	9.23	9.82	12.60	<=30	Pass
	802.11ac (VHT40)	MIMO	5965	/	/	11.95	12.00	15.04	<=30	Pass
			6165	/	/	11.11	12.07	14.68	<=30	Pass
			6405	/	/	10.69	11.24	14.04	<=30	Pass
	802.11ac (VHT80)	MIMO	5985	/	/	14.51	15.53	18.12	<=30	Pass
			6145	/	/	14.05	14.47	17.33	<=30	Pass
			6385	/	/	15.65	16.77	19.31	<=30	Pass
	802.11ac (VHT160)	MIMO	6025	/	/	17.94	18.57	21.33	<=30	Pass
			6185	/	/	17.18	18.00	20.67	<=30	Pass
			6345	/	/	17.40	18.25	20.91	<=30	Pass
	802.11ax (HEW20)	MIMO	5955	SU	/	8.47	9.03	11.82	<=30	Pass
			6175	SU	/	8.68	9.50	12.17	<=30	Pass
			6415	SU	/	8.92	9.41	12.24	<=30	Pass
	802.11ax (HEW40)	MIMO	5965	SU	/	11.44	11.42	14.49	<=30	Pass
			6165	SU	/	11.56	11.54	14.61	<=30	Pass
			6405	SU	/	12.06	12.65	15.43	<=30	Pass
	802.11ax (HEW80)	MIMO	5985	SU	/	15.39	15.31	18.41	<=30	Pass
			6145	SU	/	13.53	13.77	16.71	<=30	Pass
			6385	SU	/	14.57	15.64	18.20	<=30	Pass
	802.11ax (HEW160)	MIMO	6025	SU	/	18.31	17.32	20.90	<=30	Pass
			6185	SU	/	17.77	16.74	20.34	<=30	Pass
			6345	SU	/	18.09	16.87	20.58	<=30	Pass

3.1.3 Power

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	6435	/	/	5.05	4.55	7.82	/	Pass
			6475	/	/	5.14	4.66	7.92	/	Pass
			6515	/	/	5.09	4.62	7.87	/	Pass
	802.11n (HT20)	MIMO	6435	/	/	3.63	3.65	6.65	/	Pass
			6475	/	/	3.68	3.72	6.71	/	Pass
			6515	/	/	4.64	4.71	7.69	/	Pass
	802.11n (HT40)	MIMO	6445	/	/	6.94	7.05	10.01	/	Pass
			6485	/	/	8.29	8.39	11.35	/	Pass
	802.11ac (VHT20)	MIMO	6435	/	/	4.69	5.31	8.02	/	Pass
			6475	/	/	4.82	5.35	8.10	/	Pass

			6515	/	/	5.84	5.74	8.80	/	Pass
	802.11ac (VHT40)	MIMO	6445	/	/	6.26	6.82	9.56	/	Pass
			6485	/	/	7.53	7.58	10.57	/	Pass
	802.11ac (VHT80)	MIMO	6465	/	/	10.93	11.67	14.33	/	Pass
	802.11ax (HEW20)	MIMO	6435	SU	/	4.45	5.03	7.76	/	Pass
			6475	SU	/	4.45	5.02	7.75	/	Pass
			6515	SU	/	4.56	4.42	7.50	/	Pass
	802.11ax (HEW40)	MIMO	6445	SU	/	7.50	8.12	10.83	/	Pass
			6485	SU	/	7.83	7.96	10.91	/	Pass
	802.11ax (HEW80)	MIMO	6465	SU	/	3.53	4.27	6.93	/	Pass

3.1.4 EIRP

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	E.I.R.P (dBm)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	6435	/	/	7.25	6.35	10.02	<=30	Pass
			6475	/	/	7.34	6.46	10.12	<=30	Pass
			6515	/	/	7.29	6.42	10.07	<=30	Pass
	802.11n (HT20)	MIMO	6435	/	/	5.83	5.45	8.85	<=30	Pass
			6475	/	/	5.88	5.52	8.91	<=30	Pass
			6515	/	/	6.84	6.51	9.89	<=30	Pass
	802.11n (HT40)	MIMO	6445	/	/	9.14	8.85	12.21	<=30	Pass
			6485	/	/	10.49	10.19	13.55	<=30	Pass
	802.11ac (VHT20)	MIMO	6435	/	/	6.89	7.11	10.22	<=30	Pass
			6475	/	/	7.02	7.15	10.30	<=30	Pass
			6515	/	/	8.04	7.54	11.00	<=30	Pass
	802.11ac (VHT40)	MIMO	6445	/	/	8.46	8.62	11.76	<=30	Pass
			6485	/	/	9.73	9.38	12.77	<=30	Pass
	802.11ac (VHT80)	MIMO	6465	/	/	13.13	13.47	16.53	<=30	Pass
	802.11ax (HEW20)	MIMO	6435	SU	/	6.65	6.83	9.96	<=30	Pass
			6475	SU	/	6.65	6.82	9.95	<=30	Pass
			6515	SU	/	6.76	6.22	9.70	<=30	Pass
	802.11ax (HEW40)	MIMO	6445	SU	/	9.70	9.92	13.03	<=30	Pass
			6485	SU	/	10.03	9.76	13.11	<=30	Pass
	802.11ax (HEW80)	MIMO	6465	SU	/	5.73	6.07	9.13	<=30	Pass

3.1.5 Power

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	6535	/	/	5.07	4.49	7.80	/	Pass
			6695	/	/	5.35	4.82	8.10	/	Pass
			6855	/	/	4.77	4.29	7.55	/	Pass
	802.11n	MIMO	6535	/	/	4.60	4.70	7.66	/	Pass

	(HT20)		6695	/	/	6.14	6.29	9.23	/	Pass
			6855	/	/	5.50	5.58	8.55	/	Pass
802.11n (HT40)	MIMO		6565	/	/	8.09	8.23	11.17	/	Pass
			6685	/	/	8.46	8.61	11.55	/	Pass
			6845	/	/	7.76	7.77	10.78	/	Pass
802.11ac (VHT20)	MIMO		6535	/	/	5.77	5.81	8.80	/	Pass
			6695	/	/	5.69	4.07	7.97	/	Pass
			6855	/	/	4.86	3.53	7.26	/	Pass
802.11ac (VHT40)	MIMO		6565	/	/	8.28	7.39	10.87	/	Pass
			6685	/	/	8.65	7.24	11.01	/	Pass
			6845	/	/	8.01	6.50	10.33	/	Pass
802.11ac (VHT80)	MIMO		6625	/	/	10.75	10.01	13.41	/	Pass
			6705	/	/	11.64	10.16	13.97	/	Pass
			6785	/	/	11.29	9.31	13.42	/	Pass
802.11ac (VHT160)	MIMO		6665	/	/	14.24	12.54	16.48	/	Pass
802.11ax (HEW20)	MIMO		6535	SU	/	4.56	4.47	7.53	/	Pass
			6695	SU	/	5.68	4.04	7.95	/	Pass
			6855	SU	/	5.52	3.92	7.80	/	Pass
802.11ax (HEW40)	MIMO		6565	SU	/	7.74	6.81	10.31	/	Pass
			6685	SU	/	8.16	6.61	10.46	/	Pass
			6845	SU	/	7.26	5.96	9.67	/	Pass
802.11ax (HEW80)	MIMO		6625	SU	/	11.11	10.31	13.74	/	Pass
			6705	SU	/	11.50	10.10	13.87	/	Pass
			6785	SU	/	11.60	9.62	13.73	/	Pass
802.11ax (HEW160)	MIMO		6665	SU	/	13.78	15.33	17.63	/	Pass

3.1.6 EIRP

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	E.I.R.P (dBm)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	6535	/	/	7.57	7.59	10.90	<=30	Pass
			6695	/	/	7.85	7.92	11.20	<=30	Pass
			6855	/	/	7.27	7.39	10.65	<=30	Pass
	802.11n (HT20)	MIMO	6535	/	/	7.10	7.80	10.76	<=30	Pass
			6695	/	/	8.64	9.39	12.33	<=30	Pass
			6855	/	/	8.00	8.68	11.65	<=30	Pass
	802.11n (HT40)	MIMO	6565	/	/	10.59	11.33	14.27	<=30	Pass
			6685	/	/	10.96	11.71	14.65	<=30	Pass
			6845	/	/	10.26	10.87	13.88	<=30	Pass
	802.11ac (VHT20)	MIMO	6535	/	/	8.27	8.91	11.90	<=30	Pass
			6695	/	/	8.19	7.17	11.07	<=30	Pass
			6855	/	/	7.36	6.63	10.36	<=30	Pass
	802.11ac (VHT40)	MIMO	6565	/	/	10.78	10.49	13.97	<=30	Pass
			6685	/	/	11.15	10.34	14.11	<=30	Pass
			6845	/	/	10.51	9.60	13.43	<=30	Pass
	802.11ac (VHT80)	MIMO	6625	/	/	13.25	13.11	16.51	<=30	Pass
			6705	/	/	14.14	13.26	17.07	<=30	Pass

			6785	/	/	13.79	12.41	16.52	<=30	Pass
	802.11ac (VHT160)	MIMO	6665	/	/	16.74	15.64	19.58	<=30	Pass
	802.11ax (HEW20)	MIMO	6535	SU	/	7.06	7.57	10.63	<=30	Pass
			6695	SU	/	8.18	7.14	11.05	<=30	Pass
			6855	SU	/	8.02	7.02	10.90	<=30	Pass
	802.11ax (HEW40)	MIMO	6565	SU	/	10.24	9.91	13.41	<=30	Pass
			6685	SU	/	10.66	9.71	13.56	<=30	Pass
			6845	SU	/	9.76	9.06	12.77	<=30	Pass
	802.11ax (HEW80)	MIMO	6625	SU	/	13.61	13.41	16.84	<=30	Pass
			6705	SU	/	14.00	13.20	16.97	<=30	Pass
			6785	SU	/	14.10	12.72	16.83	<=30	Pass
	802.11ax (HEW160)	MIMO	6665	SU	/	16.28	18.43	20.73	<=30	Pass

3.1.7 Power

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	6895	/	/	4.61	4.14	7.39	/	Pass
			6995	/	/	4.81	4.29	7.57	/	Pass
			7115	/	/	3.87	3.36	6.63	/	Pass
	802.11n (HT20)	MIMO	6895	/	/	4.38	4.40	7.40	/	Pass
			6995	/	/	4.02	4.06	7.05	/	Pass
			7115	/	/	3.18	3.07	6.14	/	Pass
	802.11n (HT40)	MIMO	6925	/	/	7.56	7.68	10.63	/	Pass
			7005	/	/	7.19	7.19	10.20	/	Pass
			7085	/	/	6.79	6.78	9.80	/	Pass
	802.11ac (VHT20)	MIMO	6895	/	/	4.82	3.58	7.25	/	Pass
			6995	/	/	4.48	3.82	7.17	/	Pass
			7115	/	/	3.51	3.17	6.35	/	Pass
	802.11ac (VHT40)	MIMO	6925	/	/	7.06	5.62	9.41	/	Pass
			7005	/	/	6.47	5.60	9.07	/	Pass
			7085	/	/	6.92	6.34	9.65	/	Pass
	802.11ac (VHT80)	MIMO	6945	/	/	11.09	9.74	13.48	/	Pass
			7025	/	/	10.44	9.51	13.01	/	Pass
	802.11ac (VHT160)	MIMO	6985	/	/	13.25	12.24	15.78	/	Pass
	802.11ax (HEW20)	MIMO	6895	SU	/	4.27	2.89	6.64	/	Pass
			6995	SU	/	3.99	2.94	6.51	/	Pass
			7115	SU	/	4.84	4.30	7.59	/	Pass
	802.11ax (HEW40)	MIMO	6925	SU	/	8.20	7.09	10.69	/	Pass
			7005	SU	/	7.73	7.08	10.43	/	Pass
			7085	SU	/	7.38	6.88	10.15	/	Pass
	802.11ax (HEW80)	MIMO	6945	SU	/	11.13	8.90	13.17	/	Pass
			7025	SU	/	10.46	9.67	13.09	/	Pass
	802.11ax (HEW160)	MIMO	6985	SU	/	13.41	14.37	16.93	/	Pass

3.1.8 EIRP

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	E.I.R.P (dBm)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	6895	/	/	7.91	5.44	10.69	<=30	Pass
			6995	/	/	8.11	5.59	10.87	<=30	Pass
			7115	/	/	7.17	4.66	9.93	<=30	Pass
	802.11n (HT20)	MIMO	6895	/	/	7.68	5.70	10.70	<=30	Pass
			6995	/	/	7.32	5.36	10.35	<=30	Pass
			7115	/	/	6.48	4.37	9.44	<=30	Pass
	802.11n (HT40)	MIMO	6925	/	/	10.86	8.98	13.93	<=30	Pass
			7005	/	/	10.49	8.49	13.50	<=30	Pass
			7085	/	/	10.09	8.08	13.10	<=30	Pass
	802.11ac (VHT20)	MIMO	6895	/	/	8.12	4.88	10.55	<=30	Pass
			6995	/	/	7.78	5.12	10.47	<=30	Pass
			7115	/	/	6.81	4.47	9.65	<=30	Pass
	802.11ac (VHT40)	MIMO	6925	/	/	10.36	6.92	12.71	<=30	Pass
			7005	/	/	9.77	6.90	12.37	<=30	Pass
			7085	/	/	10.22	7.64	12.95	<=30	Pass
	802.11ac (VHT80)	MIMO	6945	/	/	14.39	11.04	16.78	<=30	Pass
			7025	/	/	13.74	10.81	16.31	<=30	Pass
	802.11ac (VHT160)	MIMO	6985	/	/	16.55	13.54	19.08	<=30	Pass
	802.11ax (HEW20)	MIMO	6895	SU	/	7.57	4.19	9.94	<=30	Pass
			6995	SU	/	7.29	4.24	9.81	<=30	Pass
			7115	SU	/	8.14	5.60	10.89	<=30	Pass
	802.11ax (HEW40)	MIMO	6925	SU	/	11.50	8.39	13.99	<=30	Pass
			7005	SU	/	11.03	8.38	13.73	<=30	Pass
			7085	SU	/	10.68	8.18	13.45	<=30	Pass
	802.11ax (HEW80)	MIMO	6945	SU	/	14.43	10.20	16.47	<=30	Pass
			7025	SU	/	13.76	10.97	16.39	<=30	Pass
	802.11ax (HEW160)	MIMO	6985	SU	/	16.71	15.67	20.23	<=30	Pass

3.1.9 Power

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	6875	/	/	4.98	4.95	7.98	/	Pass
	802.11n (HT20)	MIMO	6875	/	/	5.82	5.74	8.79	/	Pass
	802.11n (HT40)	MIMO	6885	/	/	7.63	7.55	10.60	/	Pass
	802.11ac (VHT20)	MIMO	6875	/	/	6.11	4.84	8.53	/	Pass
	802.11ac (VHT40)	MIMO	6885	/	/	6.92	5.47	9.27	/	Pass
	802.11ac	MIMO	6865	/	/	11.13	9.80	13.53	/	Pass

	(VHT80)									
	802.11ac (VHT160)	MIMO	6825	/	/	13.56	11.90	15.82	/	Pass
	802.11ax (HEW20)	MIMO	6875	SU	/	5.67	4.02	7.93	/	Pass
	802.11ax (HEW40)	MIMO	6885	SU	/	7.17	5.95	9.61	/	Pass
	802.11ax (HEW80)	MIMO	6865	SU	/	11.35	10.15	13.80	/	Pass
	802.11ax (HEW160)	MIMO	6825	SU	/	13.44	14.89	17.24	/	Pass

3.1.10 EIRP

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	E.I.R.P (dBm)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	6875	/	/	7.48	8.05	11.08	<=30	Pass
	802.11n (HT20)	MIMO	6875	/	/	8.32	8.84	11.89	<=30	Pass
	802.11n (HT40)	MIMO	6885	/	/	10.13	10.65	13.70	<=30	Pass
	802.11ac (VHT20)	MIMO	6875	/	/	8.61	7.94	11.63	<=30	Pass
	802.11ac (VHT40)	MIMO	6885	/	/	9.42	8.57	12.37	<=30	Pass
	802.11ac (VHT80)	MIMO	6865	/	/	13.63	12.90	16.63	<=30	Pass
	802.11ac (VHT160)	MIMO	6825	/	/	16.06	15.00	18.92	<=30	Pass
	802.11ax (HEW20)	MIMO	6875	SU	/	8.17	7.12	11.03	<=30	Pass
	802.11ax (HEW40)	MIMO	6885	SU	/	9.67	9.05	12.71	<=30	Pass
	802.11ax (HEW80)	MIMO	6865	SU	/	13.85	13.25	16.90	<=30	Pass
	802.11ax (HEW160)	MIMO	6825	SU	/	15.94	17.99	20.34	<=30	Pass

3.1.11 Power

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11n (HT40)	MIMO	6525	/	/	8.14	8.19	11.18	/	Pass
	802.11ac (VHT40)	MIMO	6525	/	/	7.25	7.28	10.28	/	Pass
	802.11ac (VHT80)	MIMO	6545	/	/	11.44	11.41	14.44	/	Pass
	802.11ac (VHT160)	MIMO	6505	/	/	14.16	14.03	17.11	/	Pass
	802.11ax	MIMO	6525	SU	/	8.02	8.11	11.08	/	Pass



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	(HEW40)									
	802.11ax (HEW80)	MIMO	6545	SU	/	11.47	11.53	14.51	/	Pass
	802.11ax (HEW160)	MIMO	6505	SU	/	14.38	14.38	17.39	/	Pass

3.1.12 EIRP

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	E.I.R.P (dBm)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11n (HT40)	MIMO	6525	/	/	10.64	11.29	14.28	<=30	Pass
	802.11ac (VHT40)	MIMO	6525	/	/	9.75	10.38	13.38	<=30	Pass
	802.11ac (VHT80)	MIMO	6545	/	/	13.94	14.51	17.54	<=30	Pass
	802.11ac (VHT160)	MIMO	6505	/	/	16.66	17.13	20.21	<=30	Pass
	802.11ax (HEW40)	MIMO	6525	SU	/	10.52	11.21	14.18	<=30	Pass
	802.11ax (HEW80)	MIMO	6545	SU	/	13.97	14.63	17.61	<=30	Pass
	802.11ax (HEW160)	MIMO	6505	SU	/	16.88	17.48	20.49	<=30	Pass

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/MHz)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	5955	/	/	-6.32	-6.40	-3.50	/	Pass
			6175	/	/	-6.76	-6.59	-3.93	/	Pass
			6415	/	/	-5.86	-6.46	-3.30	/	Pass

4.1.2 E.I.R.PSD

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum E.I.R.PSD (dBm/MHz)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	5955	/	/	-2.02	-2.20	3.76	<=5	Pass
			6175	/	/	-2.46	-2.39	3.33	<=5	Pass
			6415	/	/	-1.56	-2.26	3.96	<=5	Pass

4.1.3 PSD

ENV	Mode	TX	Frequency	RU	RU	Maximum PSD (dBm/MHz)	Verdict
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		Type	(MHz)		Pos	ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	6435	/	/	-6.09	-6.59	-3.41	/	Pass
			6475	/	/	-5.78	-6.40	-3.23	/	Pass
			6515	/	/	-6.03	-6.47	-3.30	/	Pass

4.1.4 E.I.R.PSD

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum E.I.R.PSD (dBm/MHz)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	6435	/	/	-3.89	-4.79	1.60	<=5	Pass
			6475	/	/	-3.58	-4.60	1.78	<=5	Pass
			6515	/	/	-3.83	-4.67	1.71	<=5	Pass

4.1.5 PSD

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/MHz)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	6535	/	/	-6.03	-6.59	-3.47	/	Pass
			6695	/	/	-5.67	-6.31	-3.15	/	Pass
			6855	/	/	-6.21	-6.65	-3.68	/	Pass

4.1.6 E.I.R.PSD

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum E.I.R.PSD (dBm/MHz)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	6535	/	/	-3.53	-3.49	2.35	<=5	Pass
			6695	/	/	-3.17	-3.21	2.67	<=5	Pass
			6855	/	/	-3.71	-3.55	2.14	<=5	Pass

4.1.7 PSD

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/MHz)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	6895	/	/	-6.54	-6.92	-3.88	/	Pass
			6995	/	/	-6.24	-6.78	-3.67	/	Pass
			7115	/	/	-7.24	-7.59	-4.48	/	Pass

4.1.8 E.I.R.PSD

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum E.I.R.PSD (dBm/MHz)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	6895	/	/	-3.24	-5.62	1.49	<=5	Pass
			6995	/	/	-2.94	-5.48	1.70	<=5	Pass
			7115	/	/	-3.94	-6.29	0.89	<=5	Pass

4.1.9 PSD



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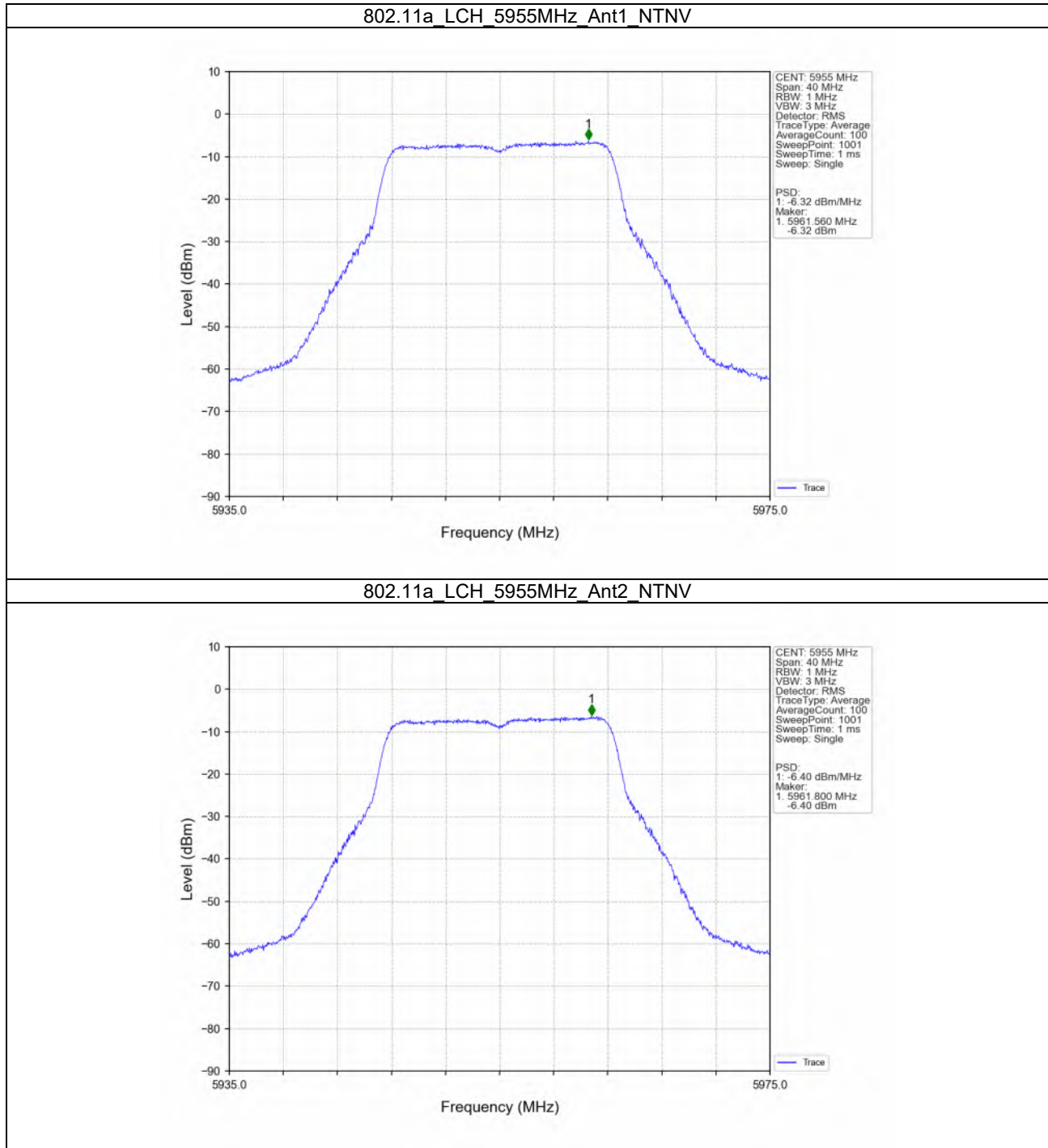
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						ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	6875	/	/	-5.96	-6.83	-3.50	/	Pass

4.1.10 E.I.R.PSD

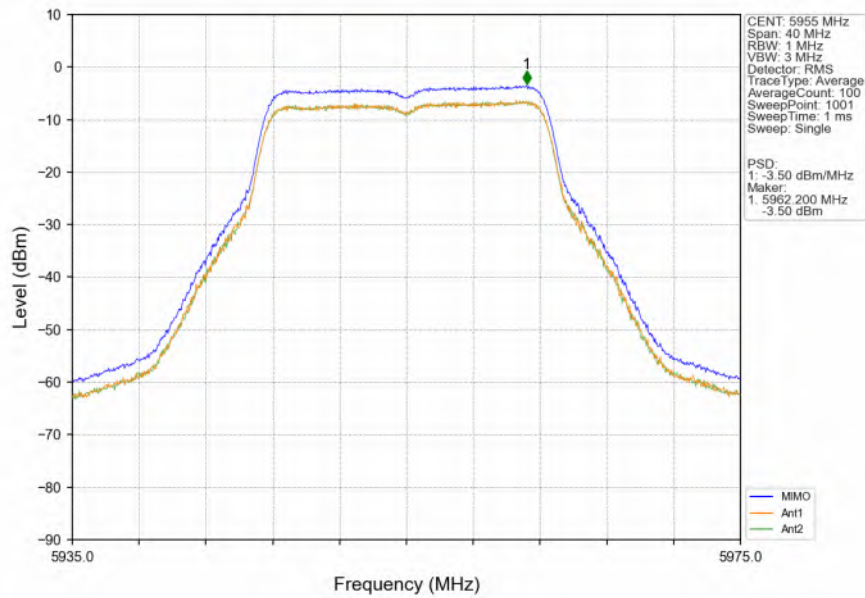
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum E.I.R.PSD (dBm/MHz)				Verdict
						ANT1	ANT2	MIMO	Limit	
NTNV	802.11a	MIMO	6875	/	/	-2.66	-5.53	2.32	<=5	Pass

4.2 Test Graph

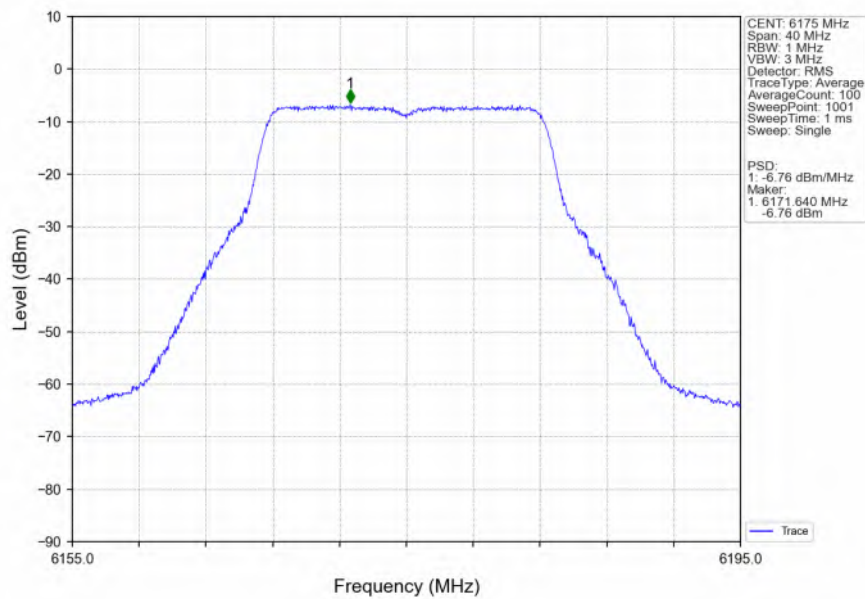
4.2.1 PSD



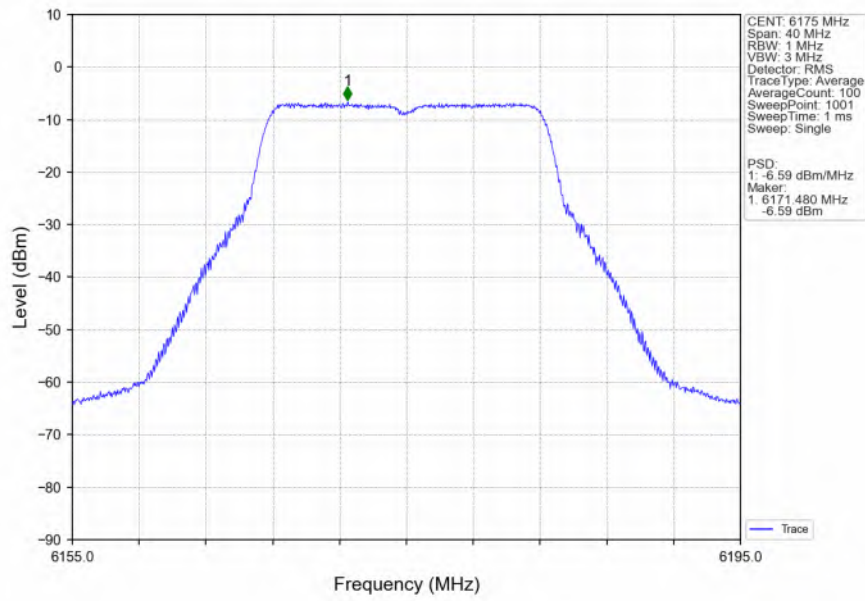
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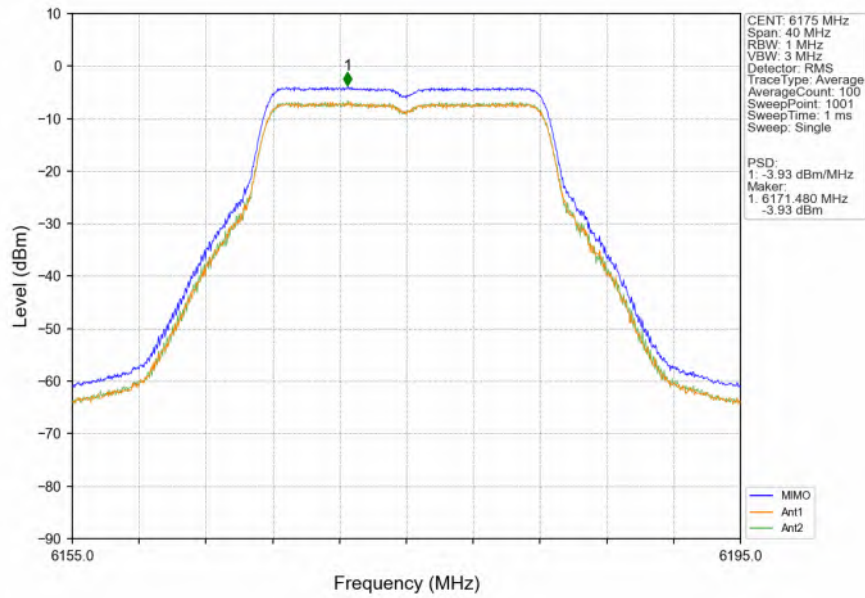
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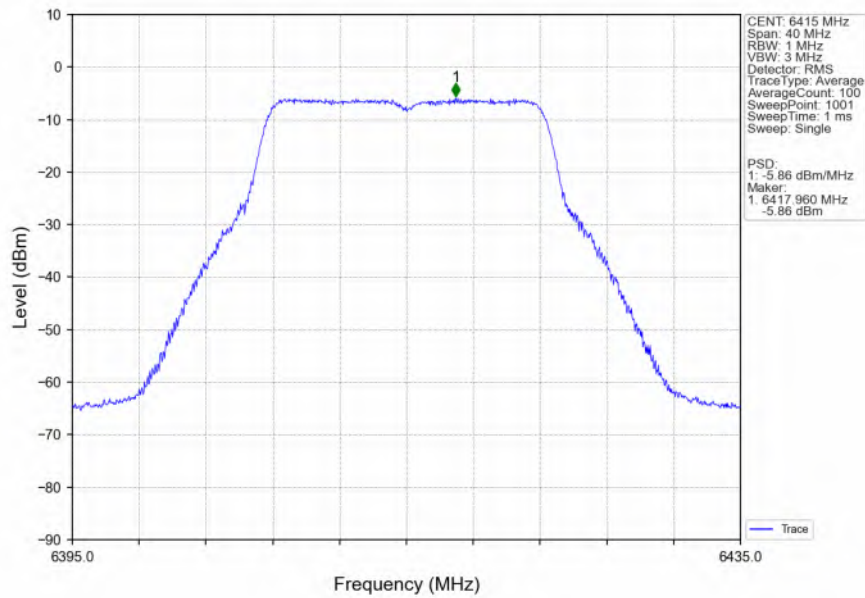
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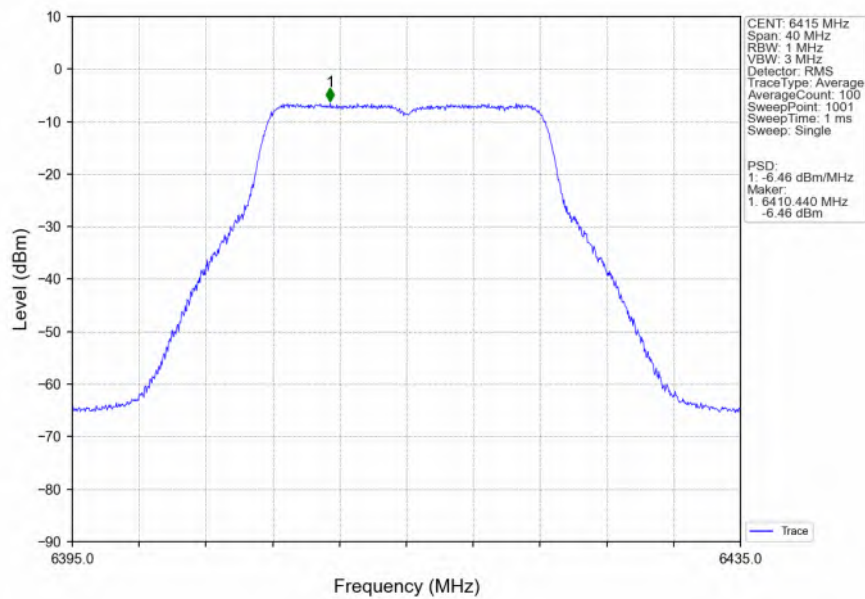
802.11a MCH 6175MHz MIMO NTN



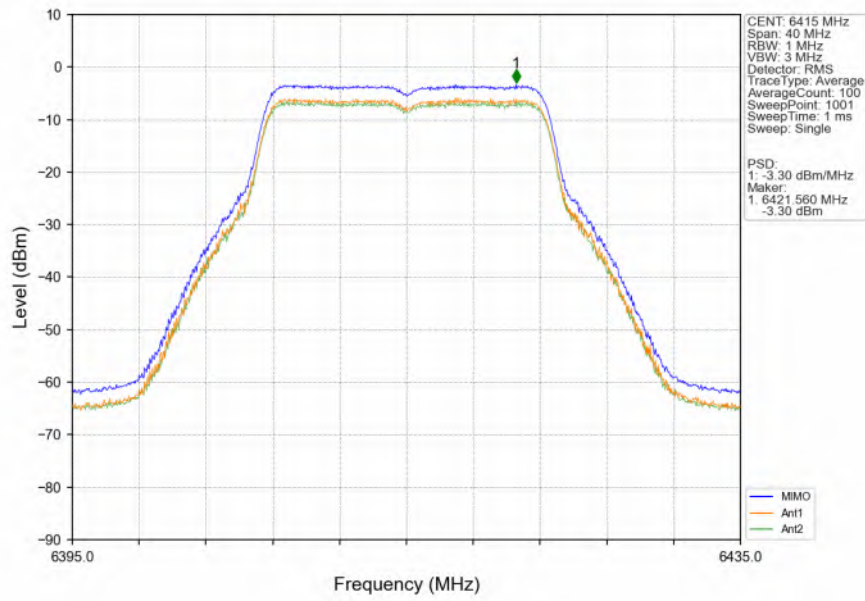
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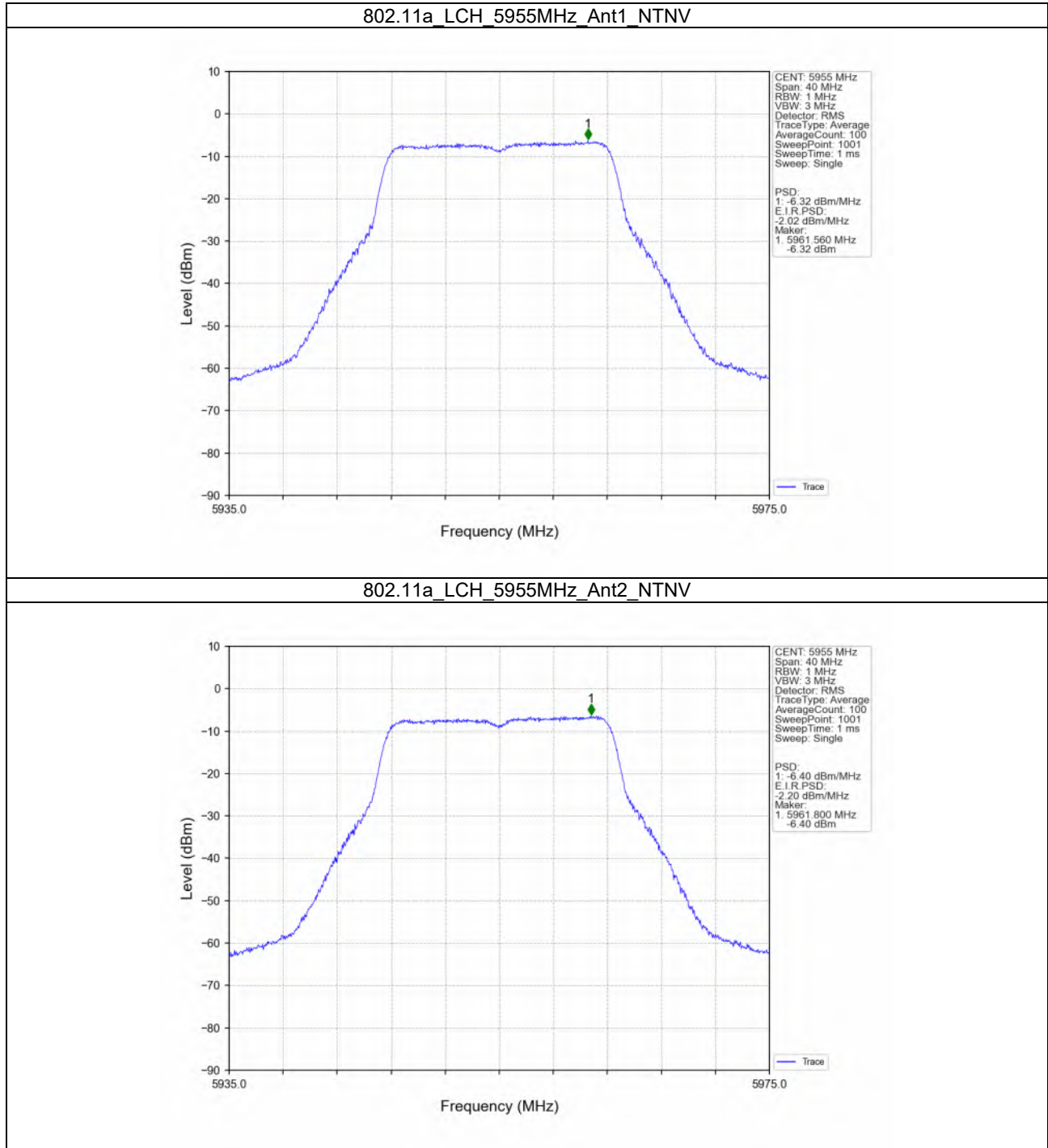
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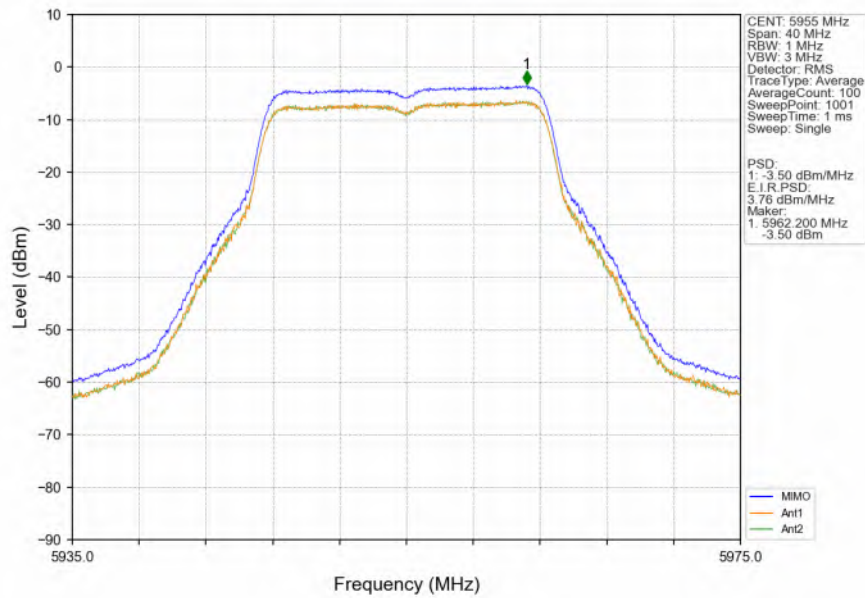
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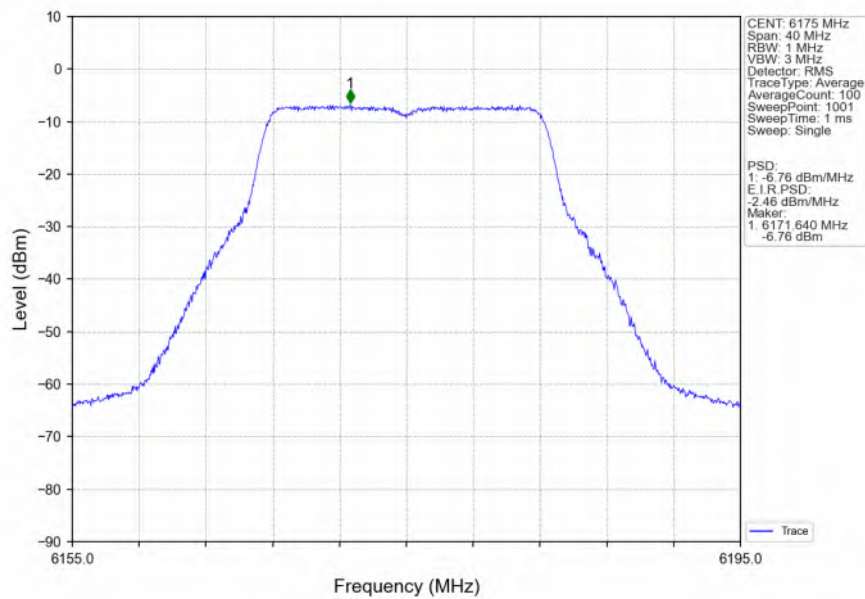
4.2.2 E.I.R.PSD



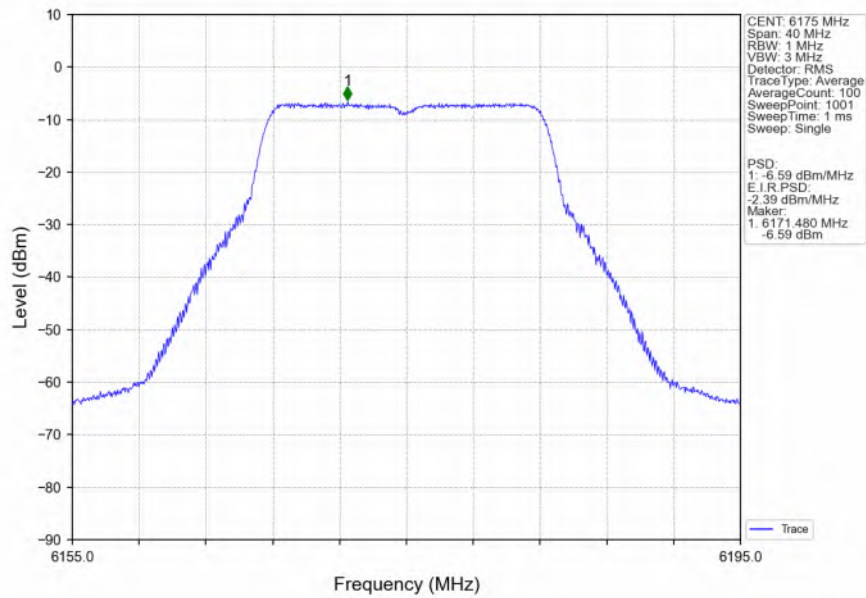
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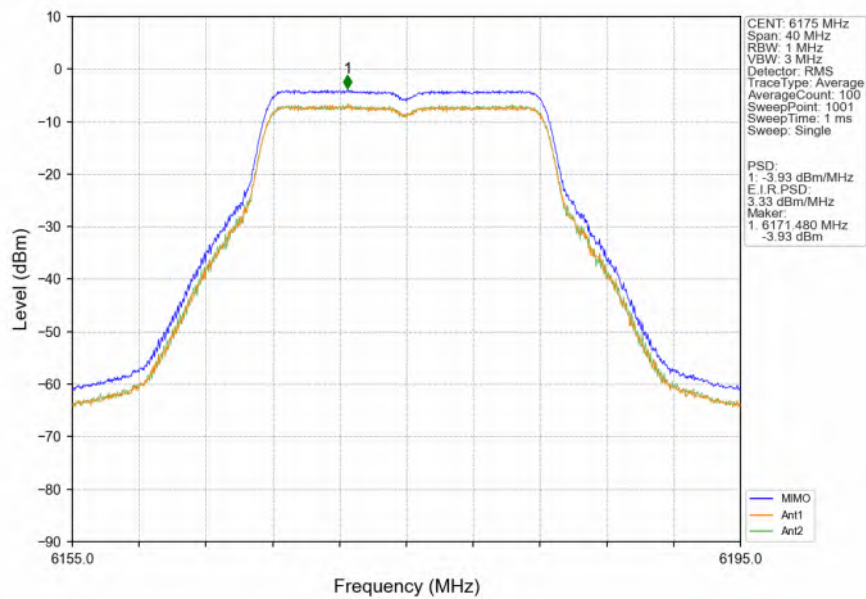
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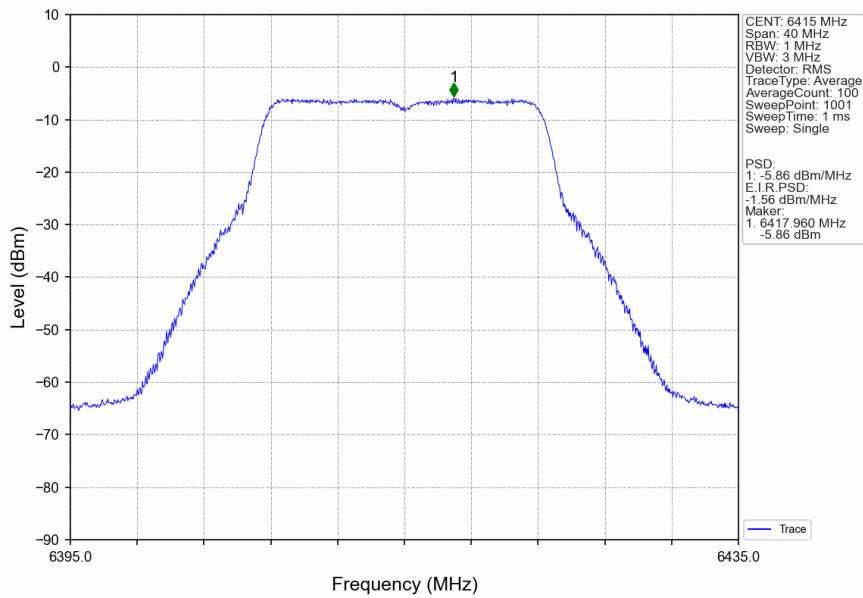
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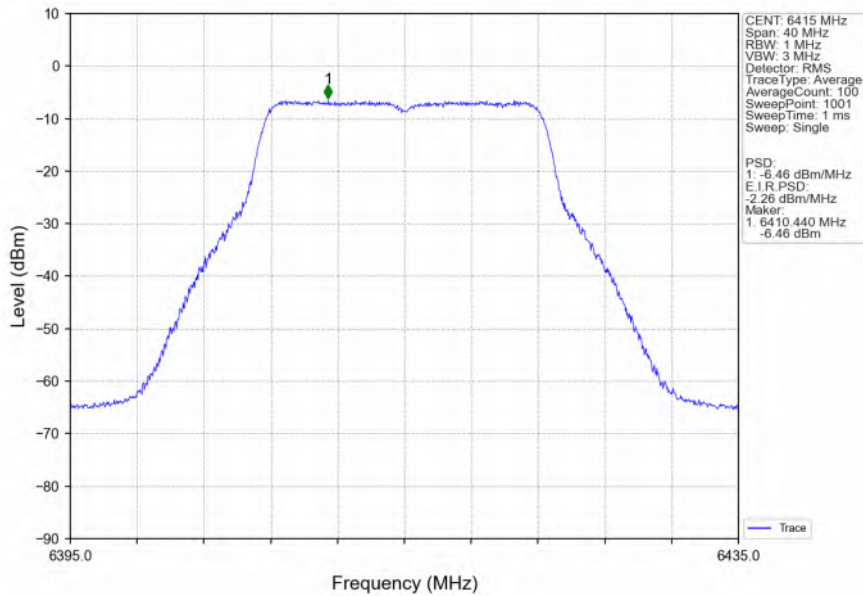
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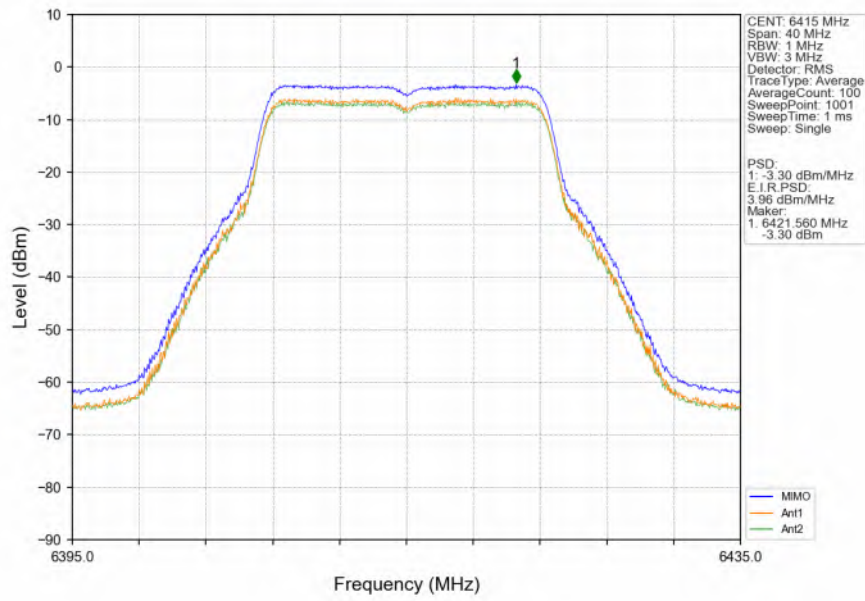
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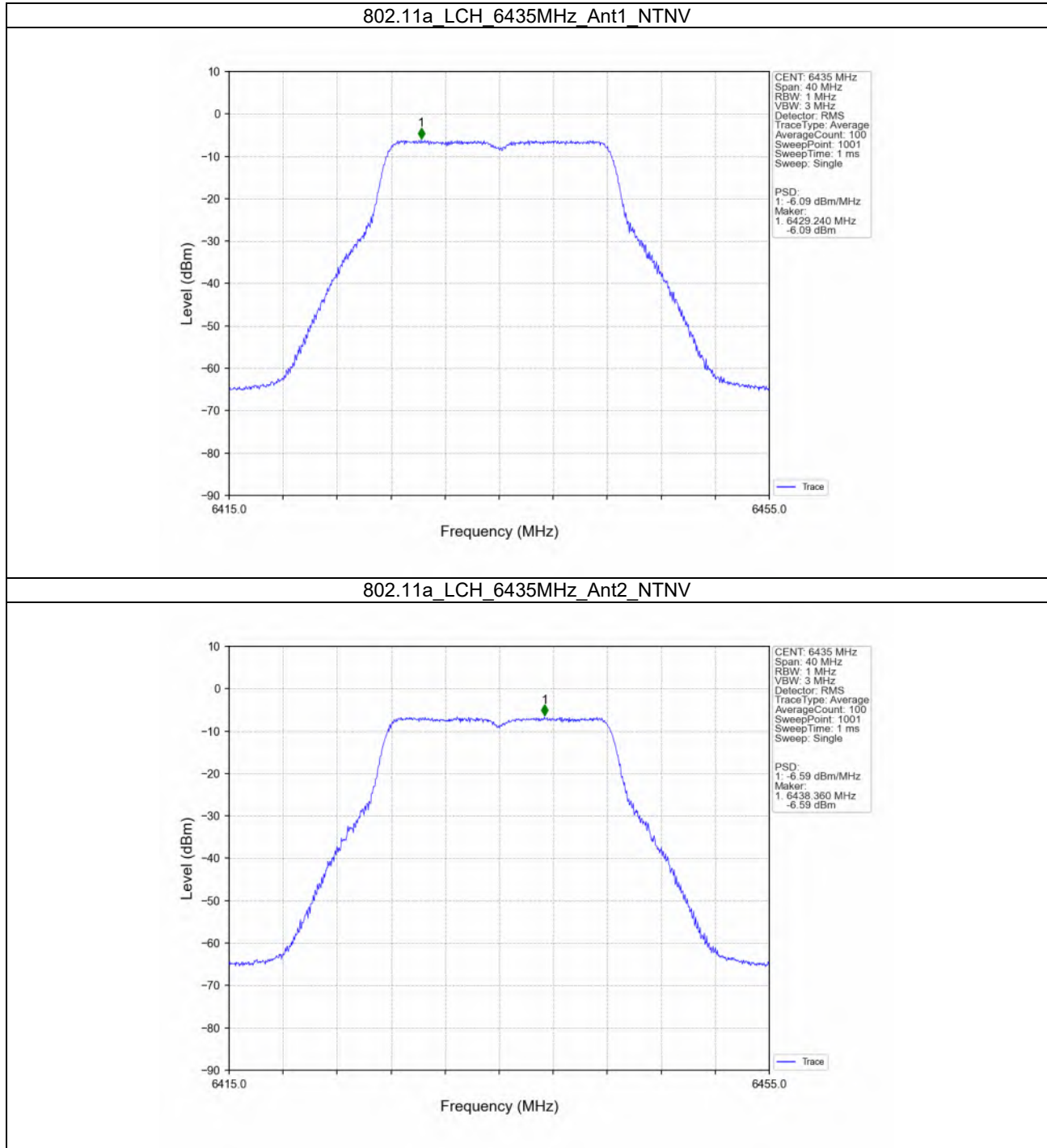
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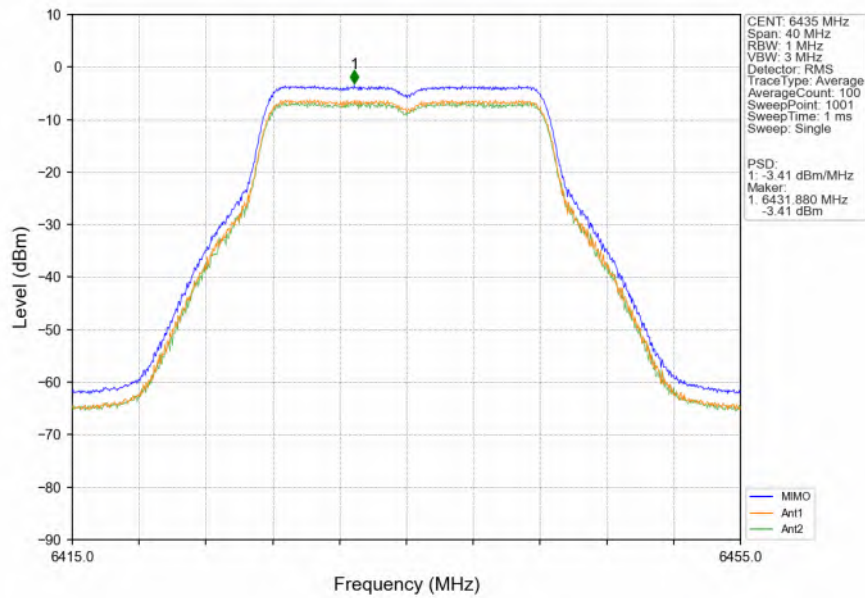
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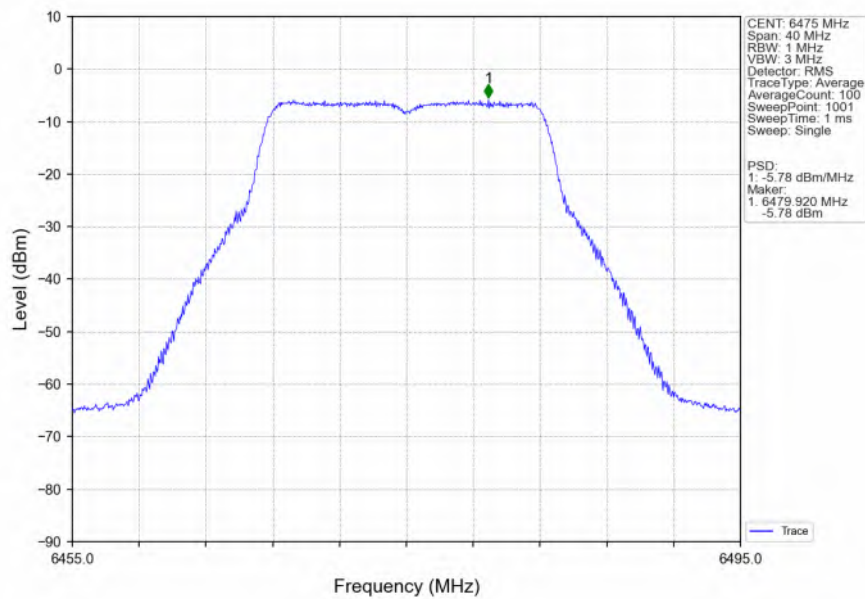
4.2.3 PSD



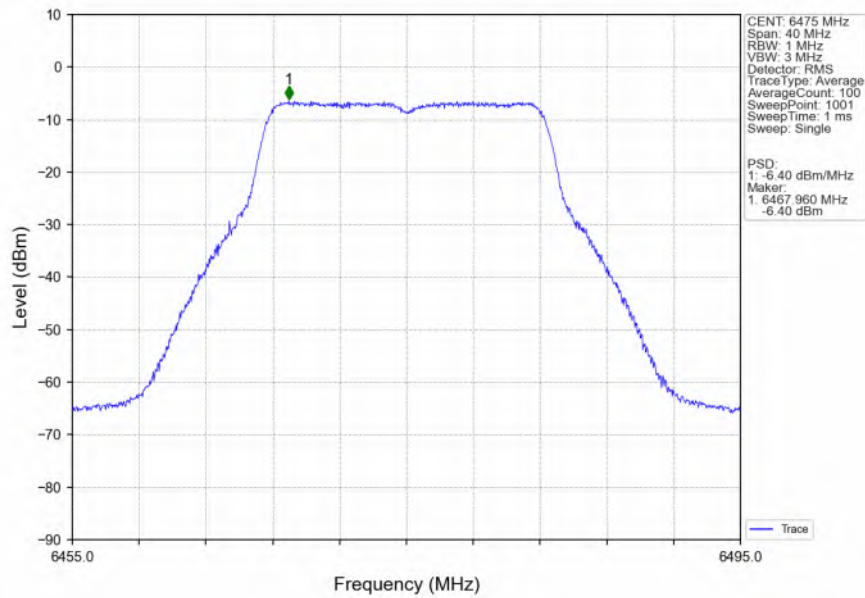
802.11a LCH 6435MHz MIMO NTN



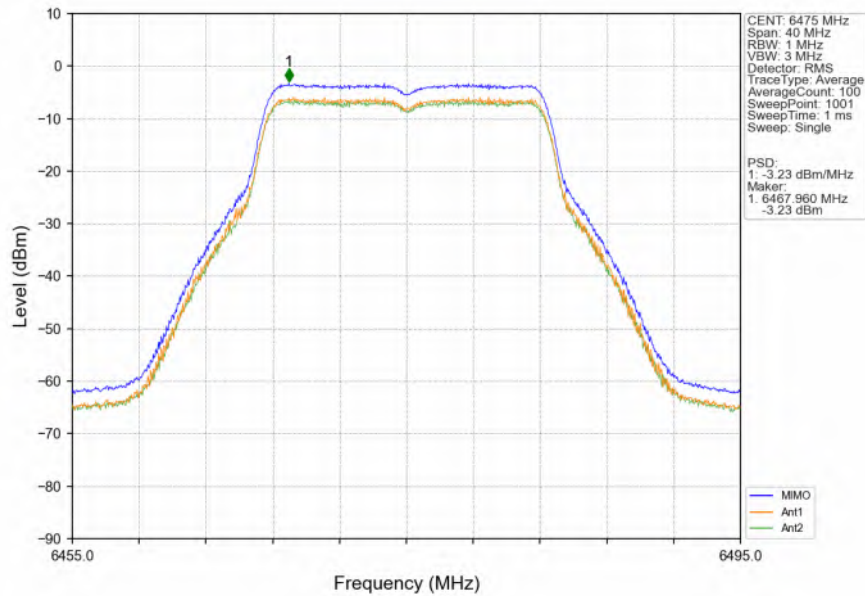
802.11a MCH 6475MHz Ant1 NTN



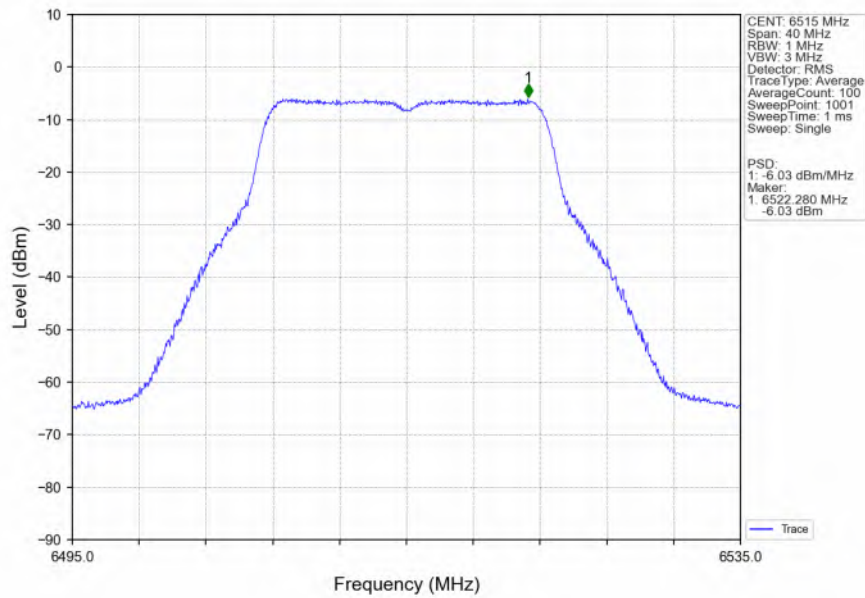
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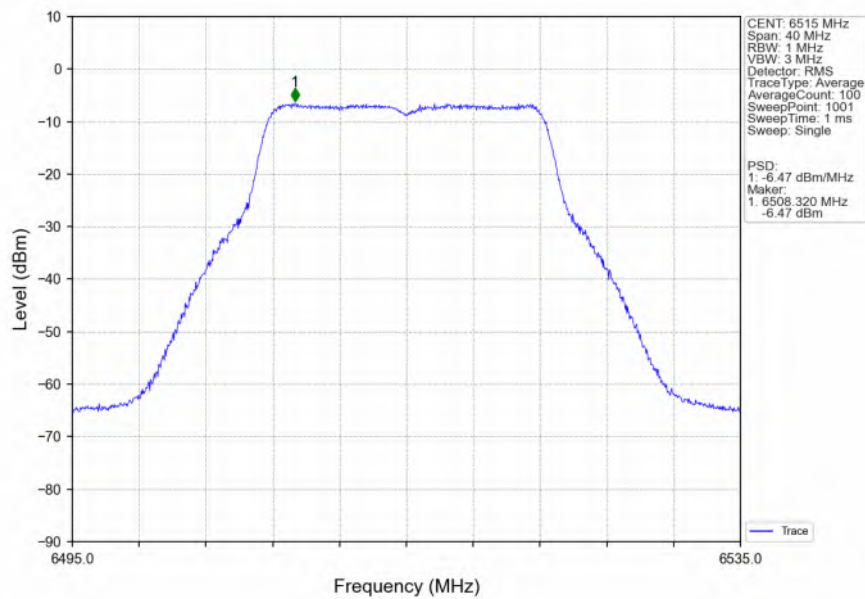
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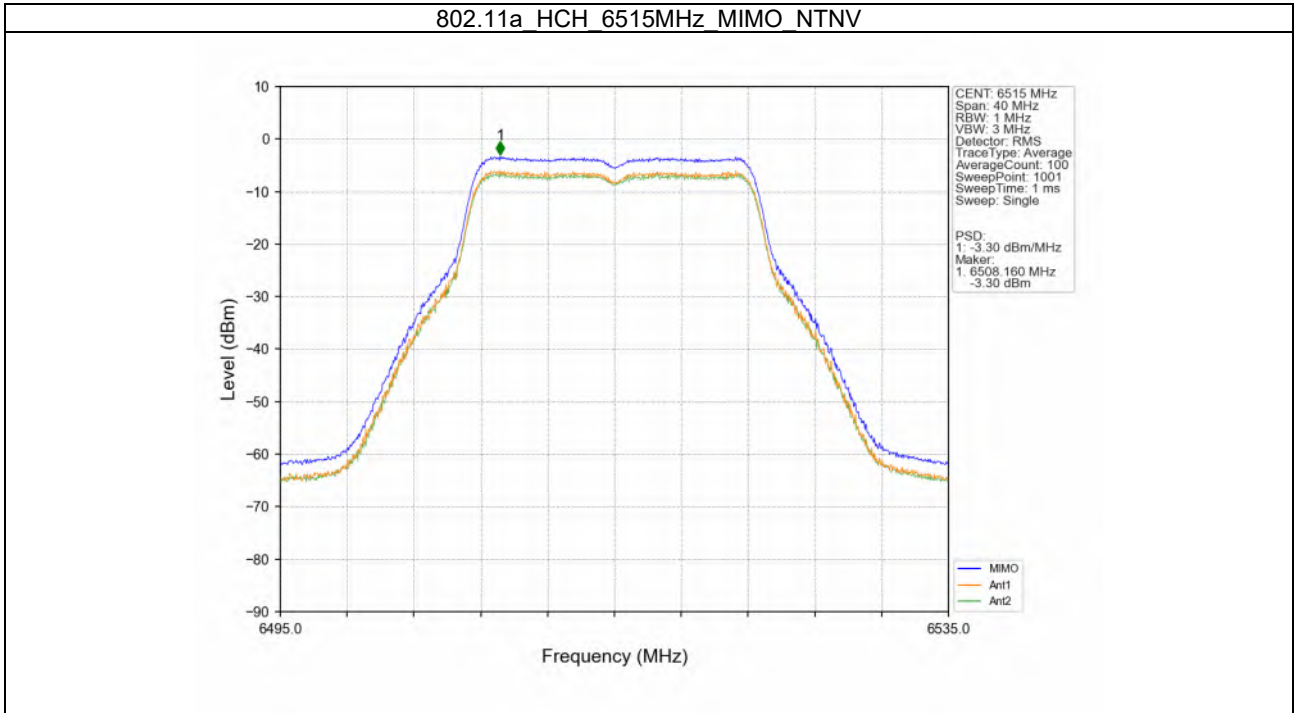


802.11a HCH 6515MHz Ant1 NTN

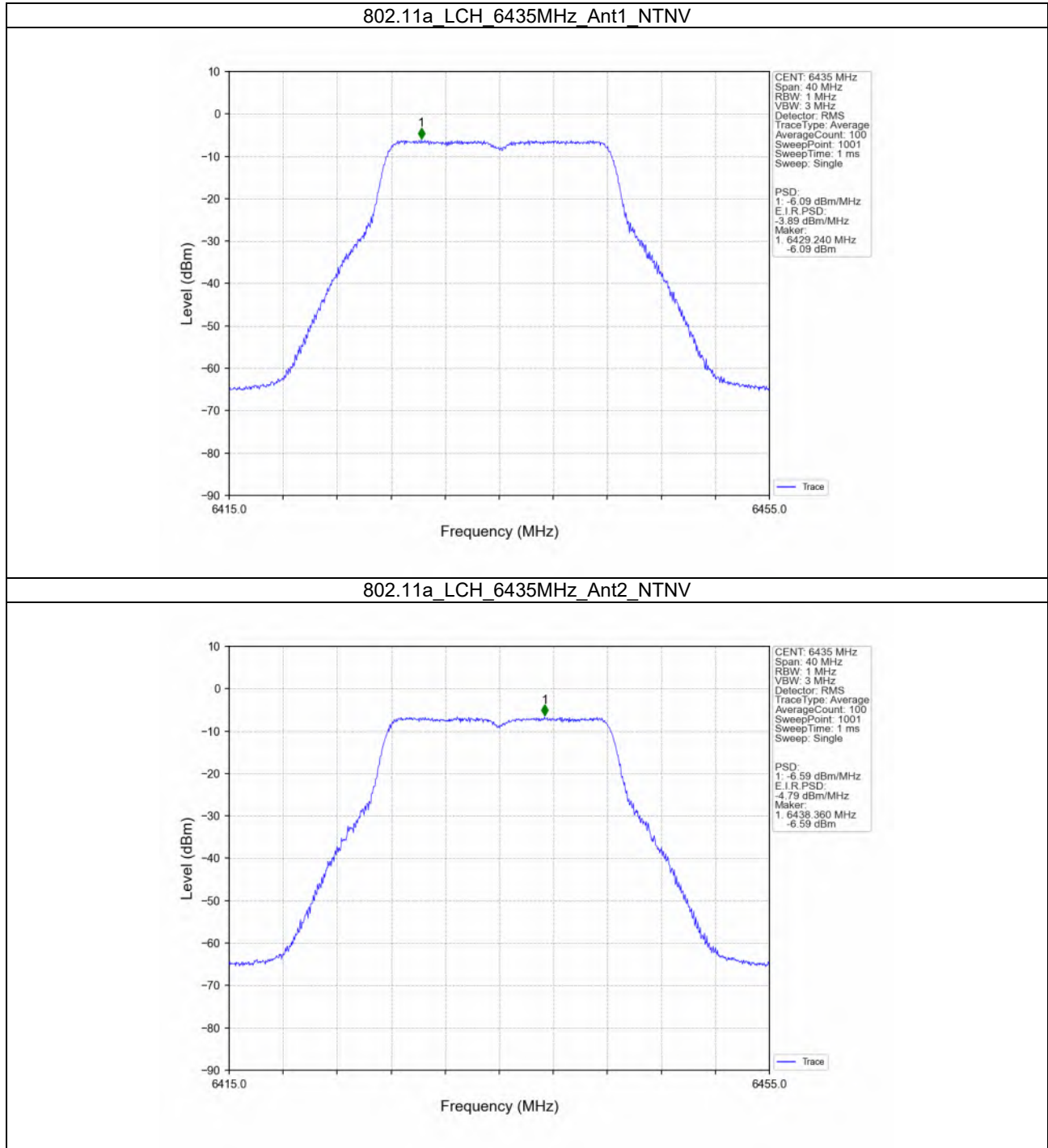


802.11a HCH 6515MHz Ant2 NTN

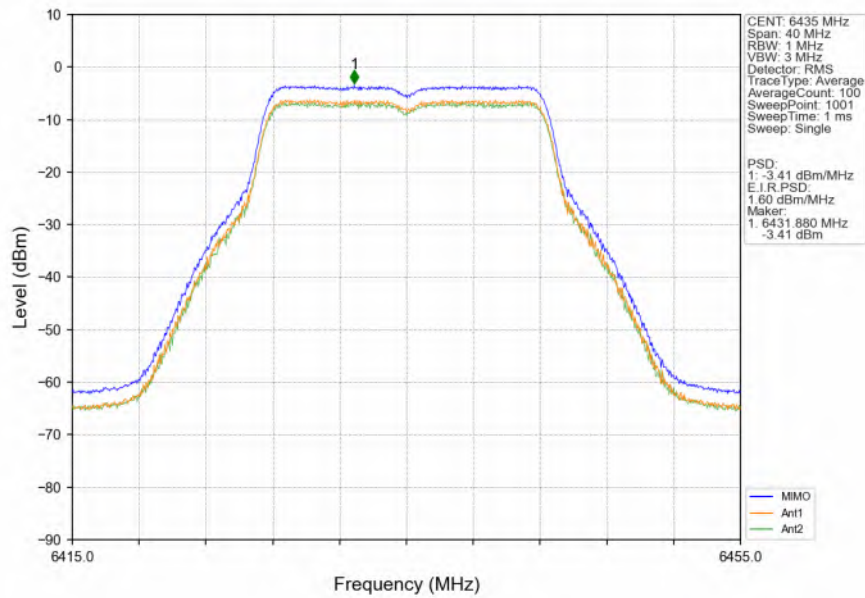




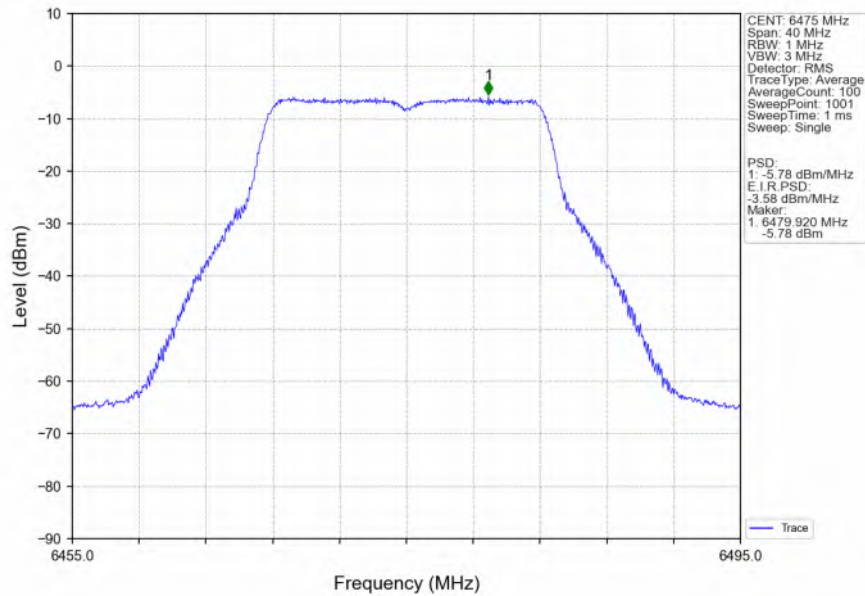
4.2.4 E.I.R.PSD



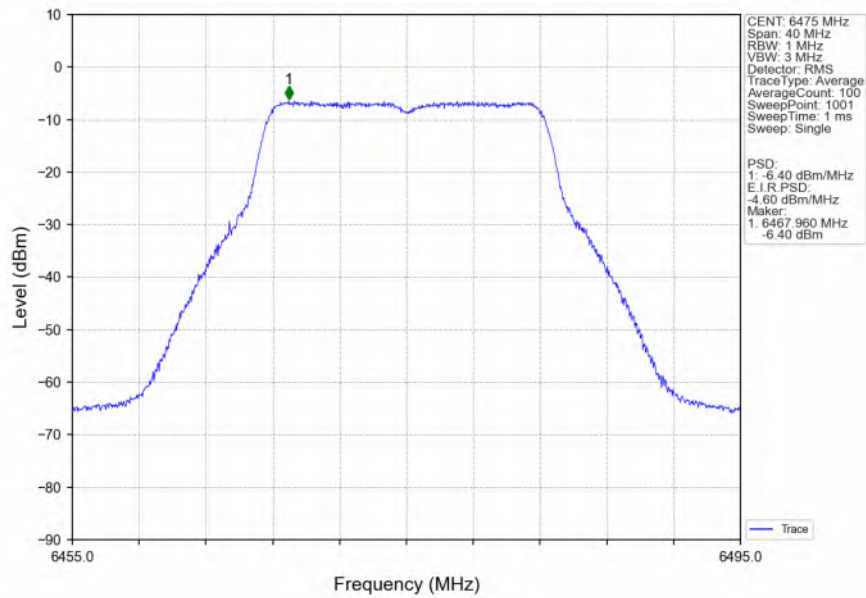
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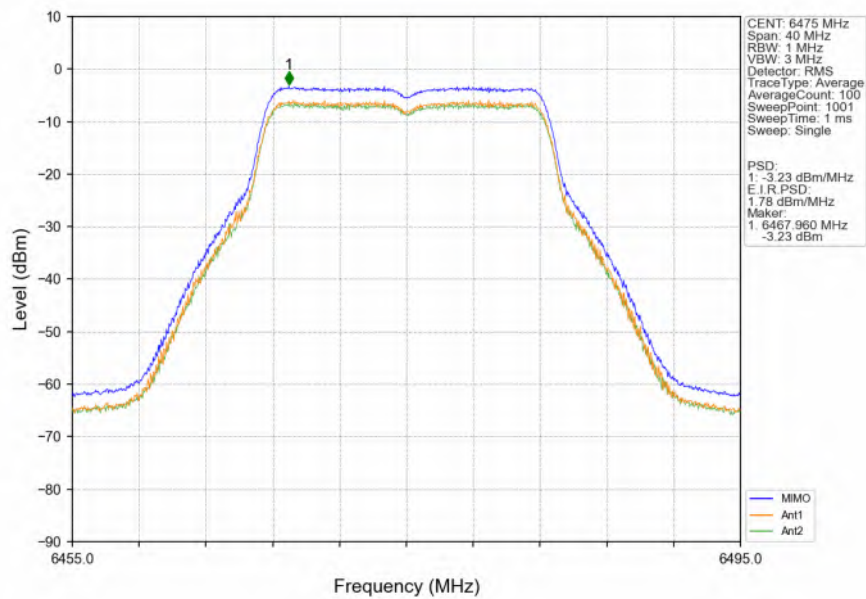
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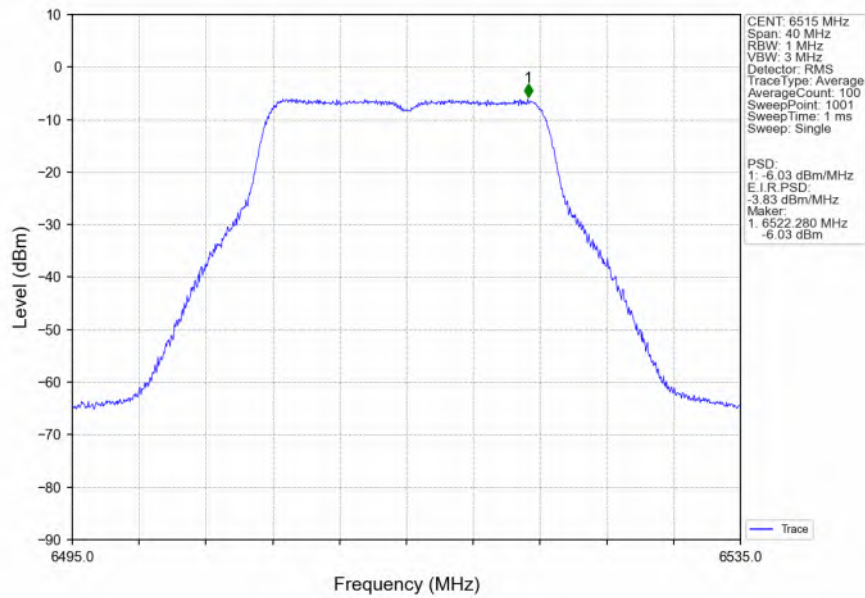
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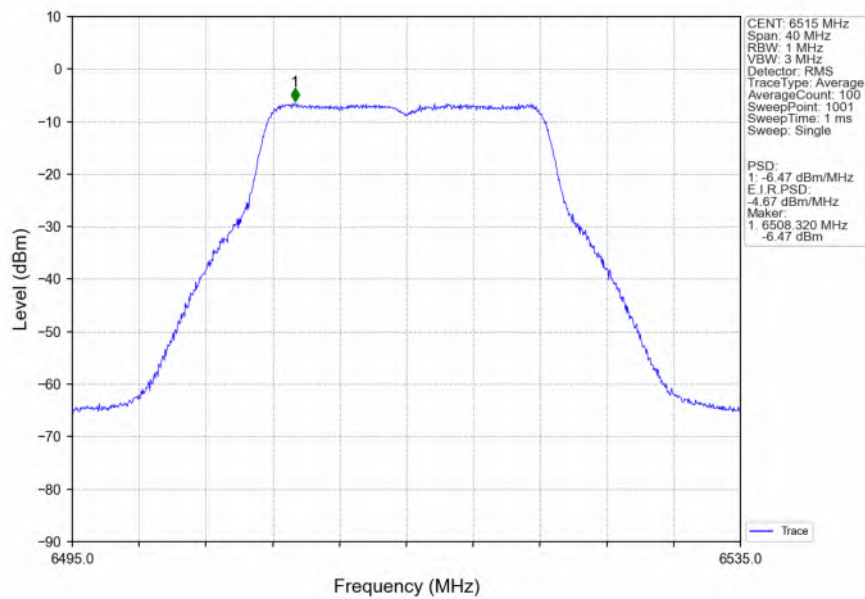
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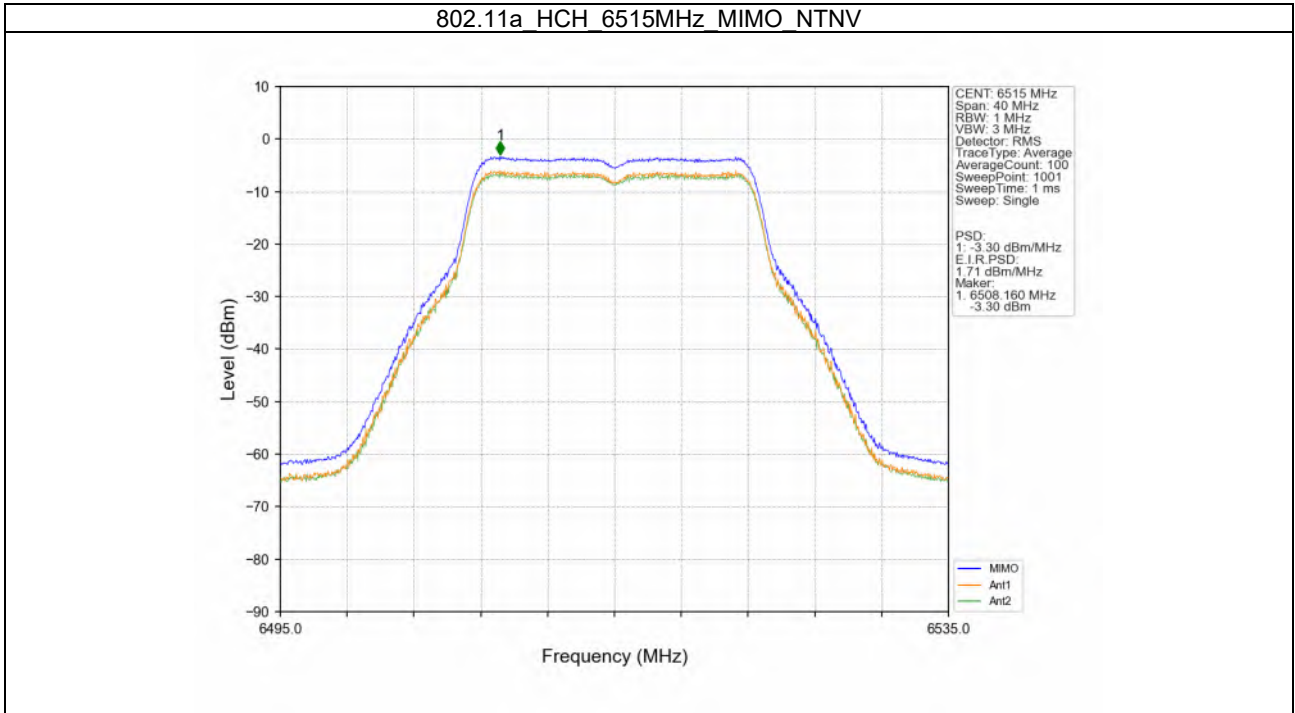


802.11a HCH 6515MHz Ant1 NTN

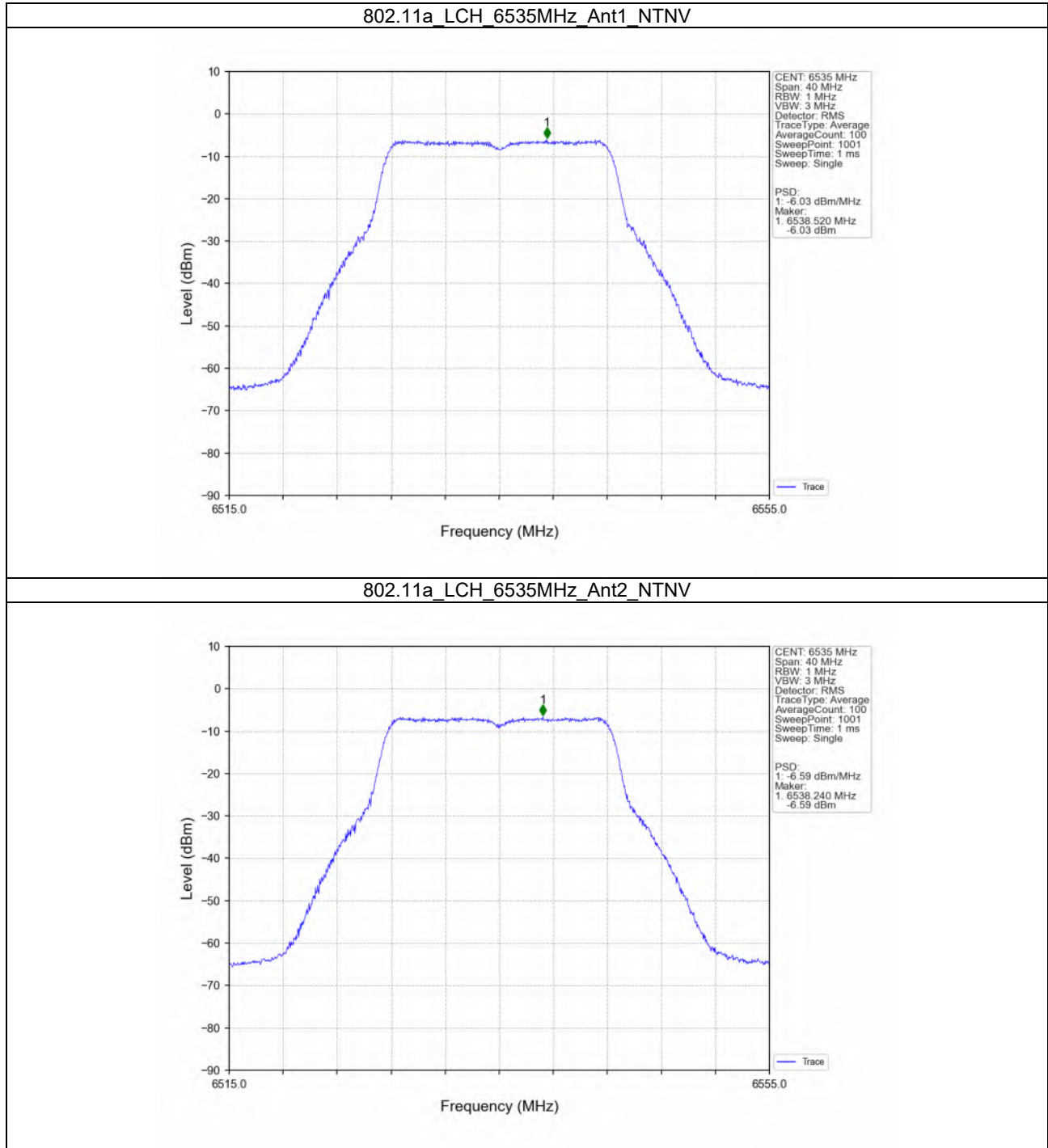


802.11a HCH 6515MHz Ant2 NTN

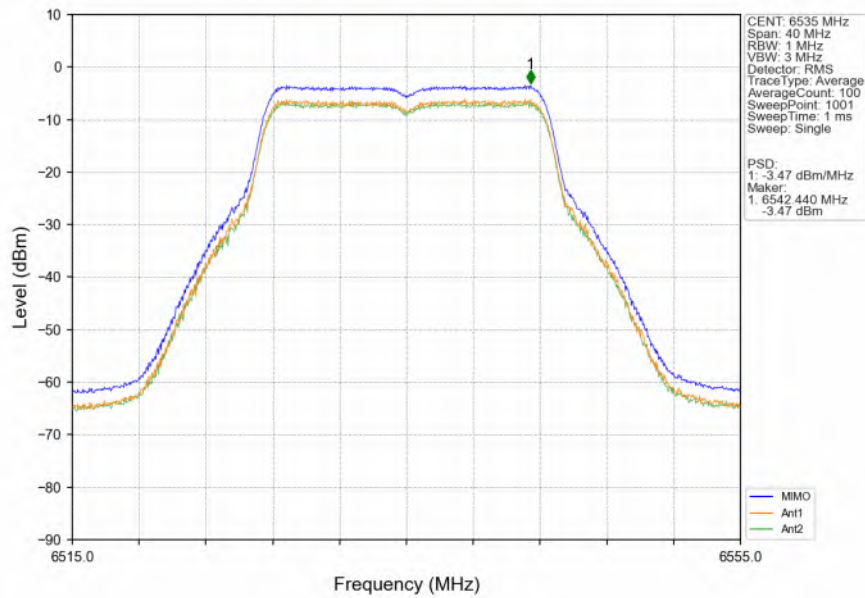




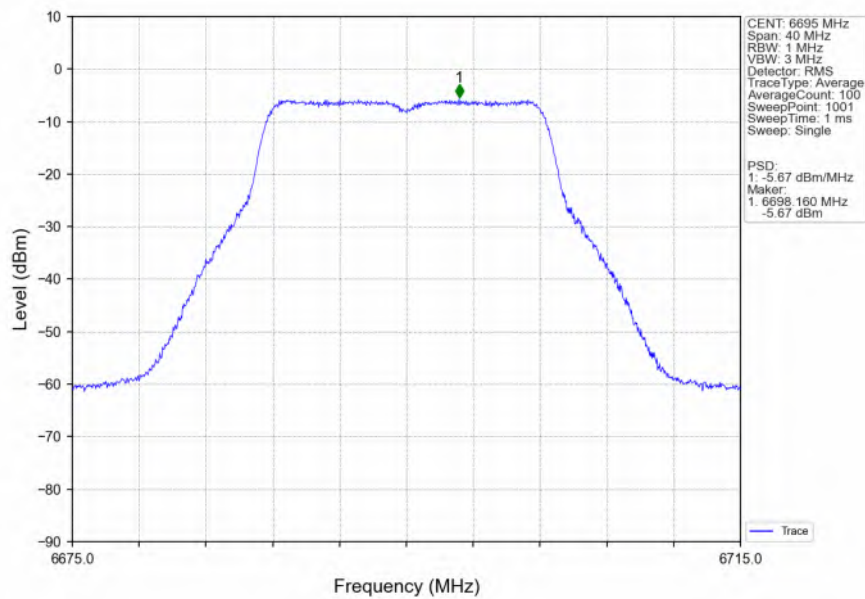
4.2.5 PSD



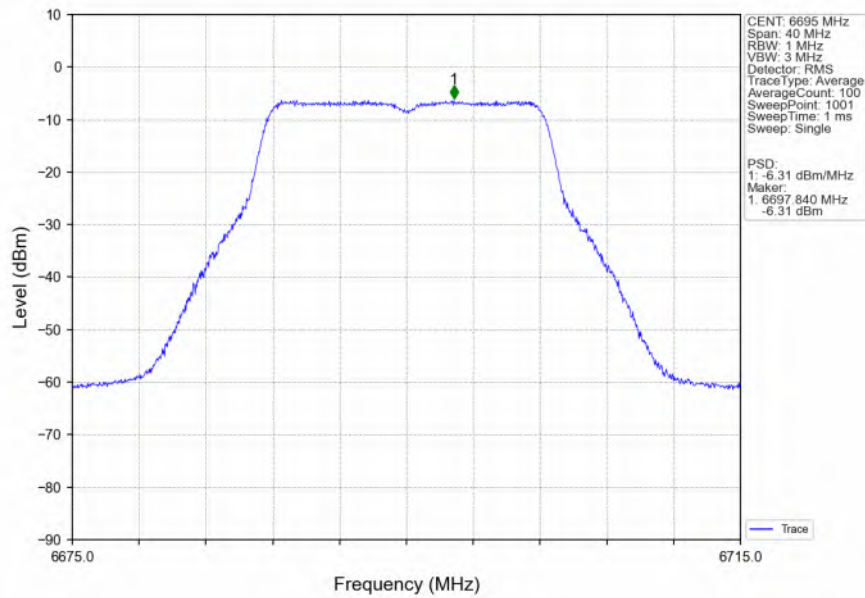
802.11a LCH 6535MHz MIMO NTN



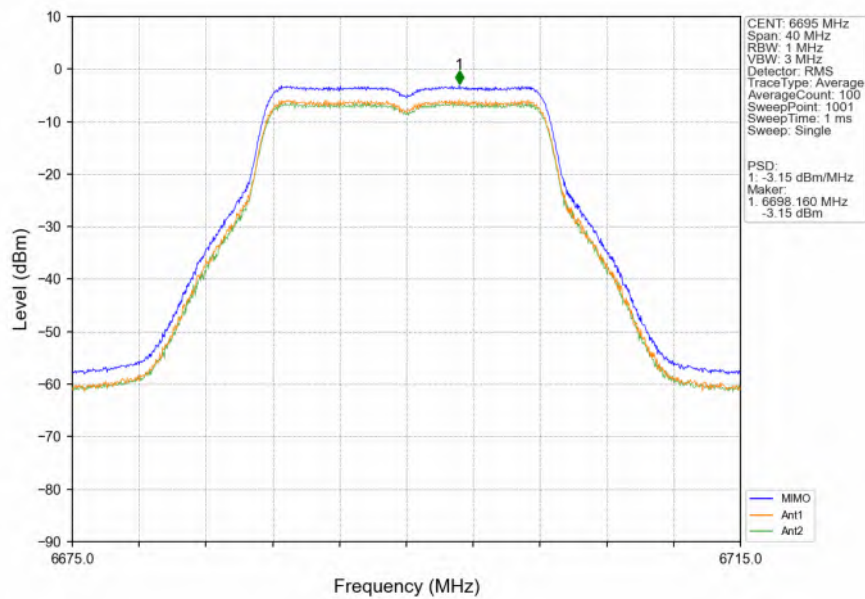
802.11a MCH 6695MHz Ant1 NTN



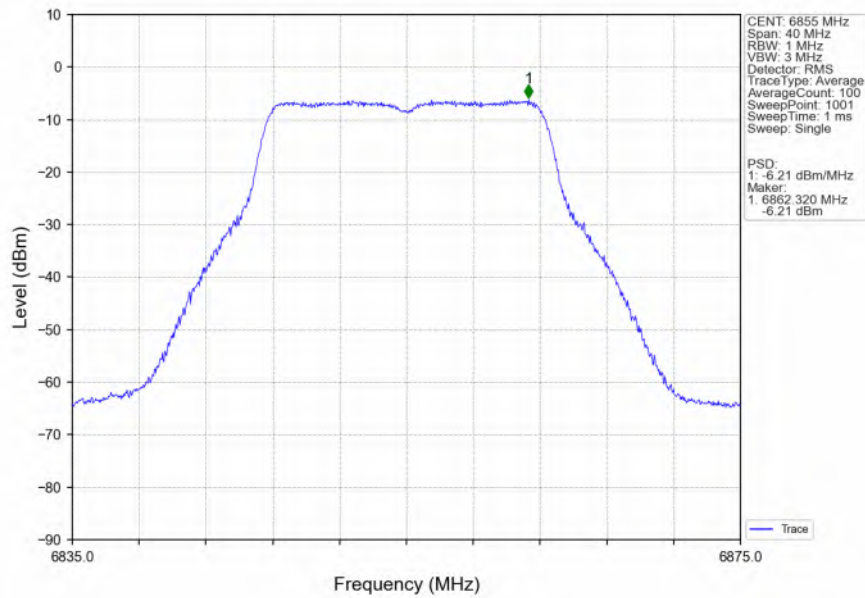
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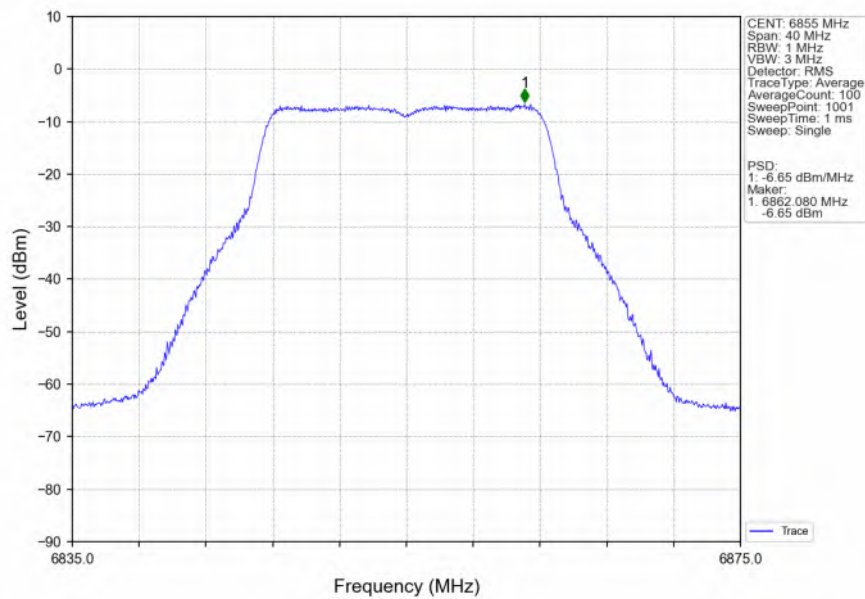
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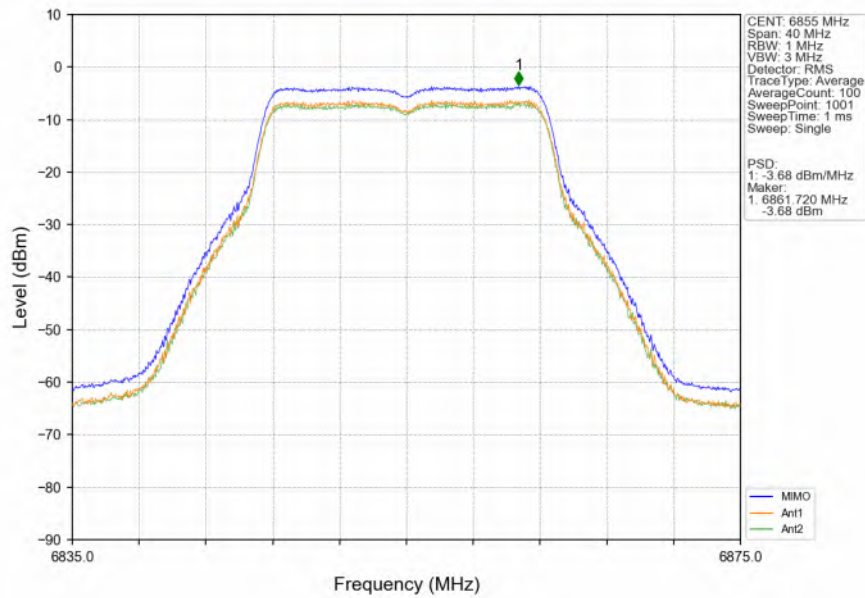
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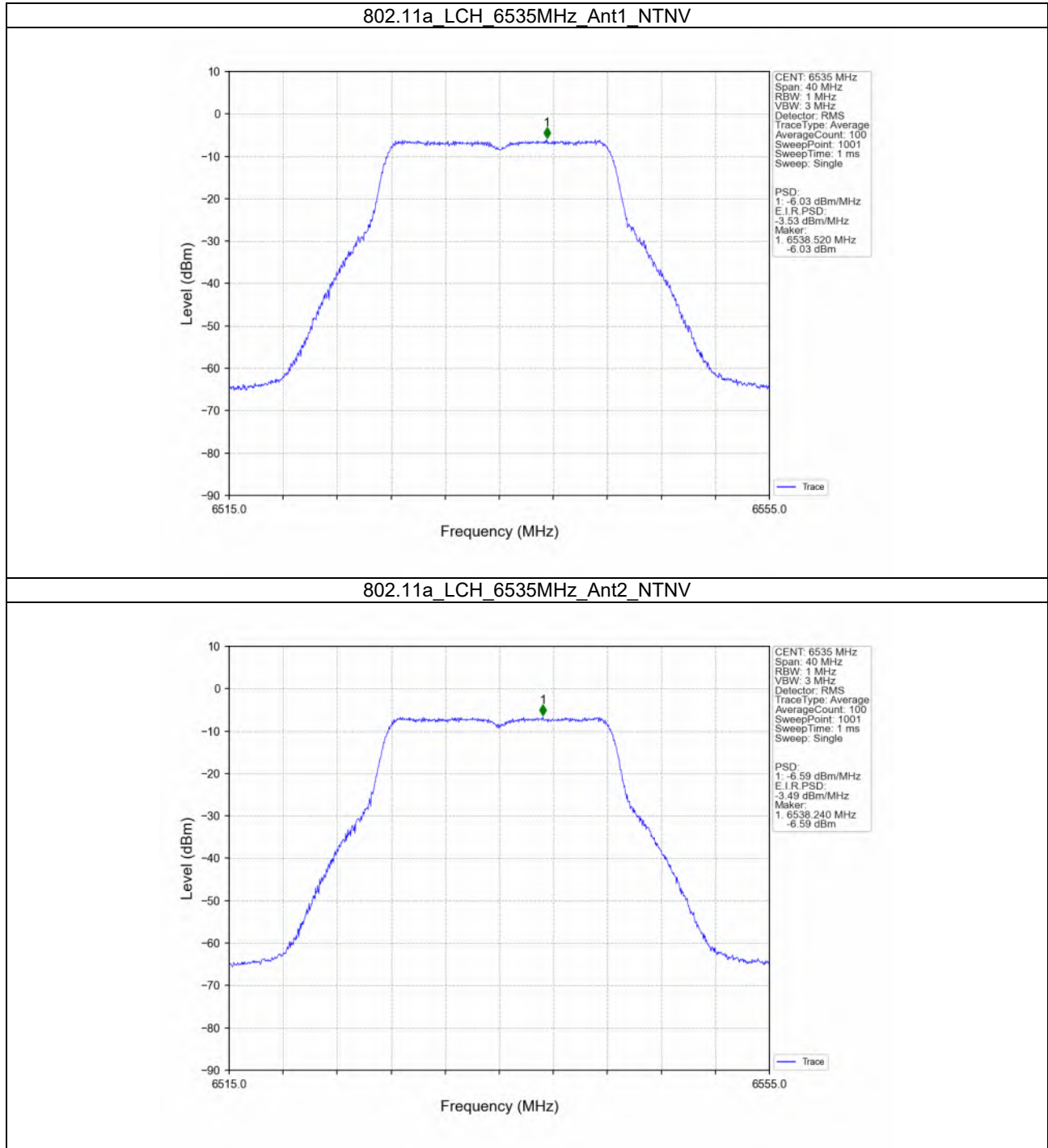
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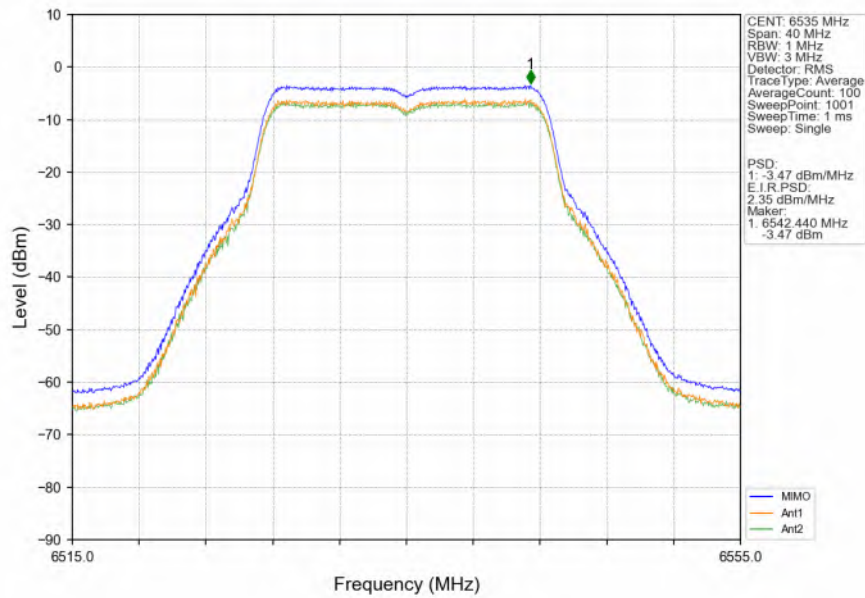
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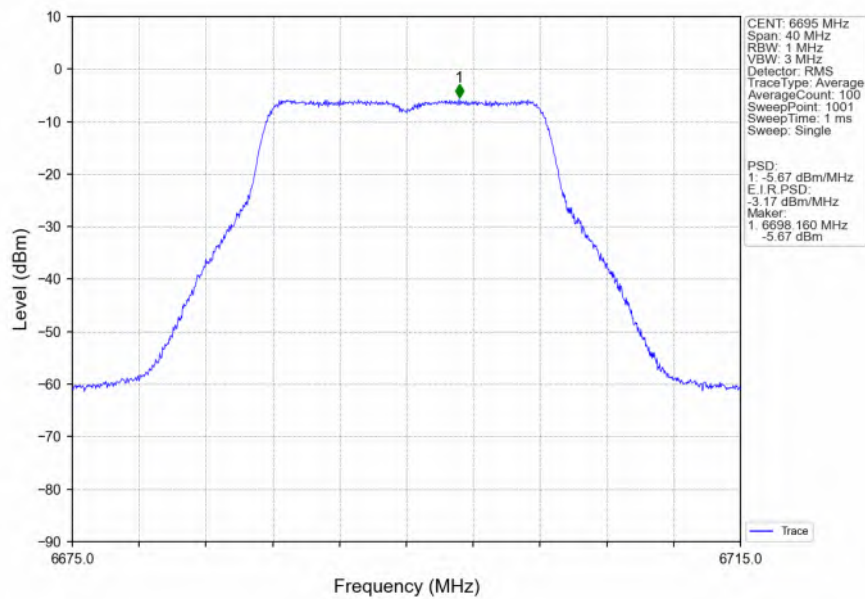
4.2.6 E.I.R.PSD



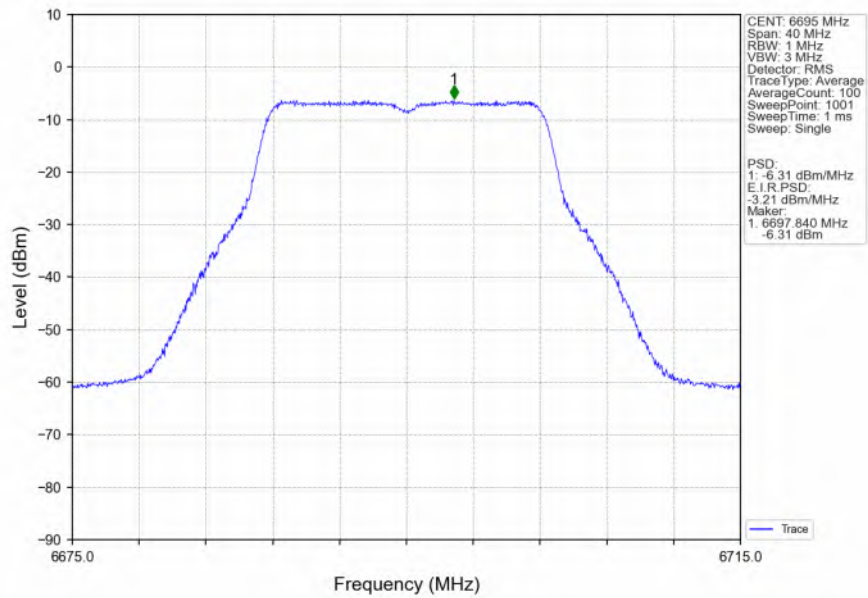
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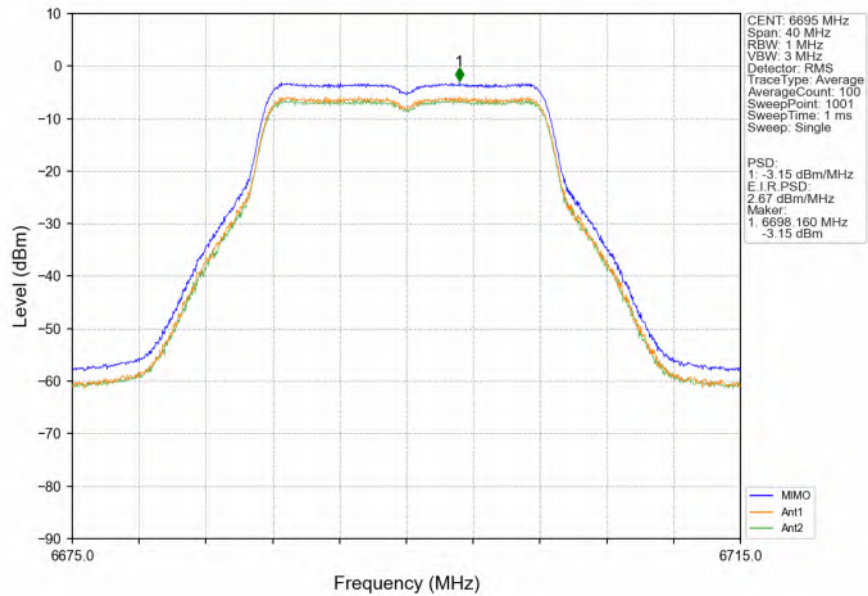
802.11a MCH 6695MHz Ant1 NTN



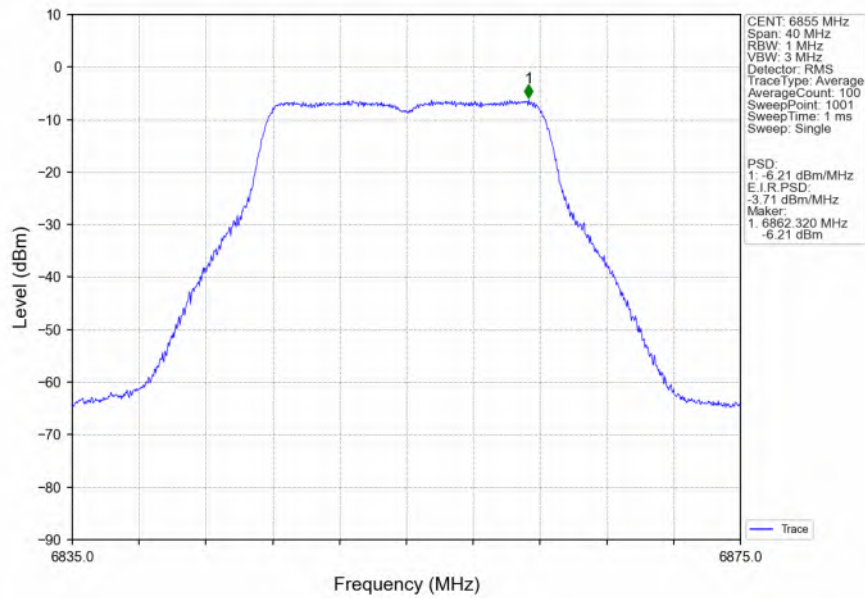
802.11a MCH 6695MHz Ant2 NTN



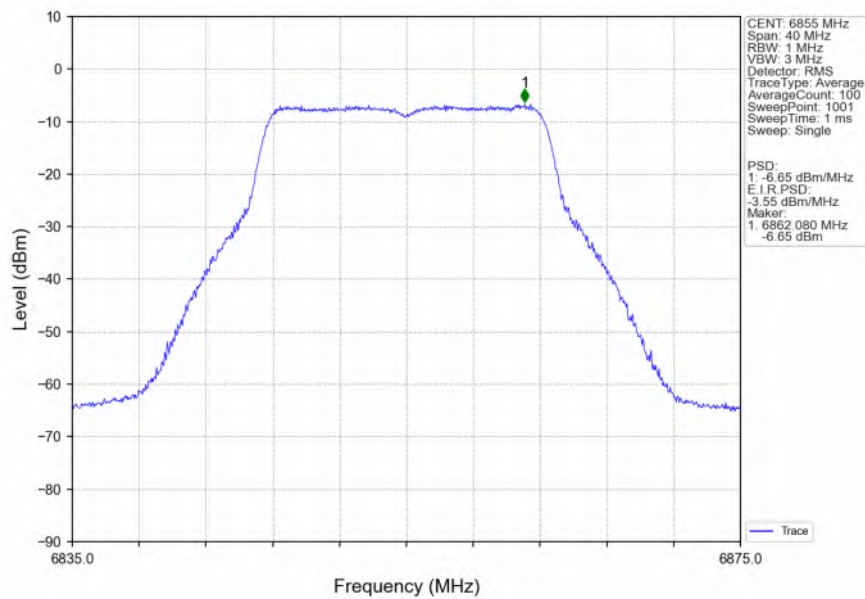
802.11a MCH 6695MHz MIMO NTN



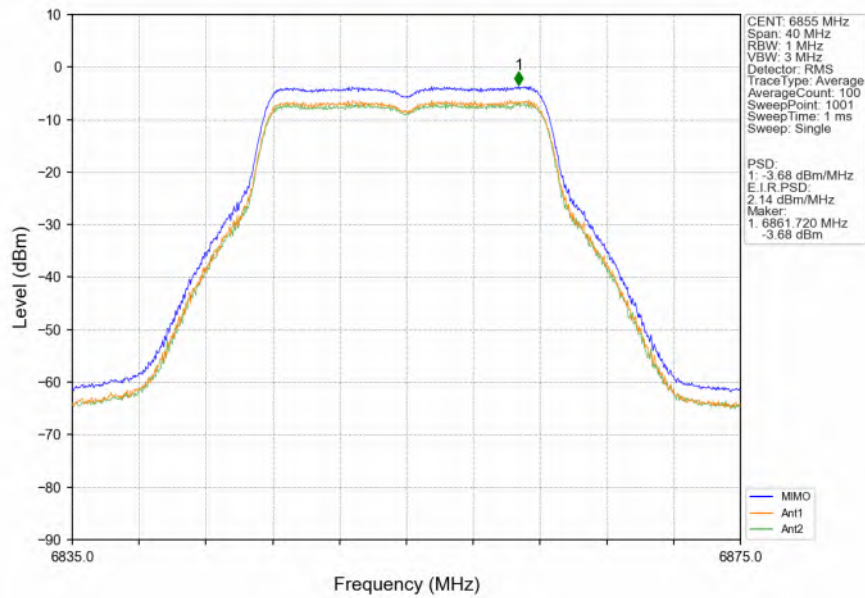
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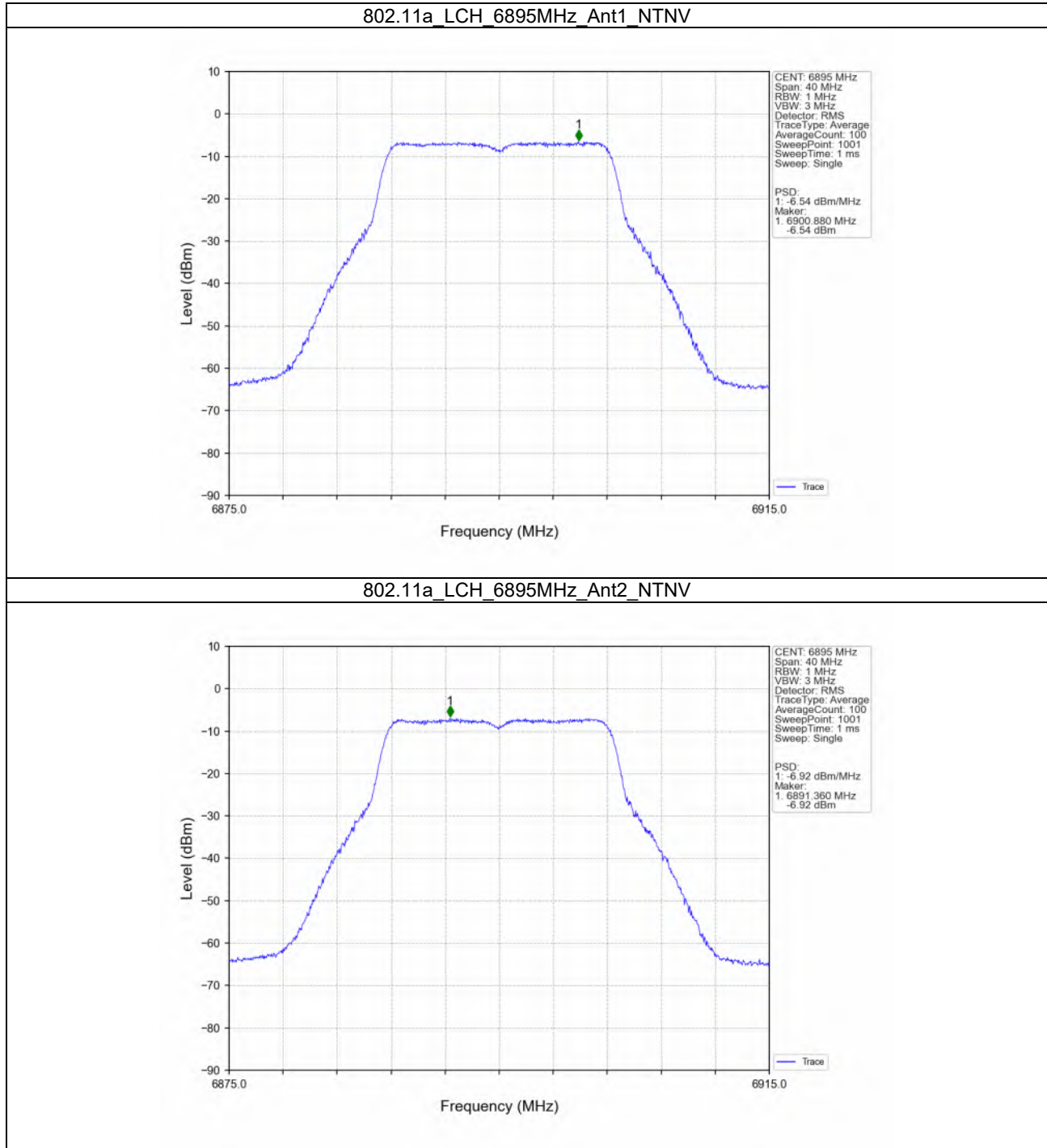
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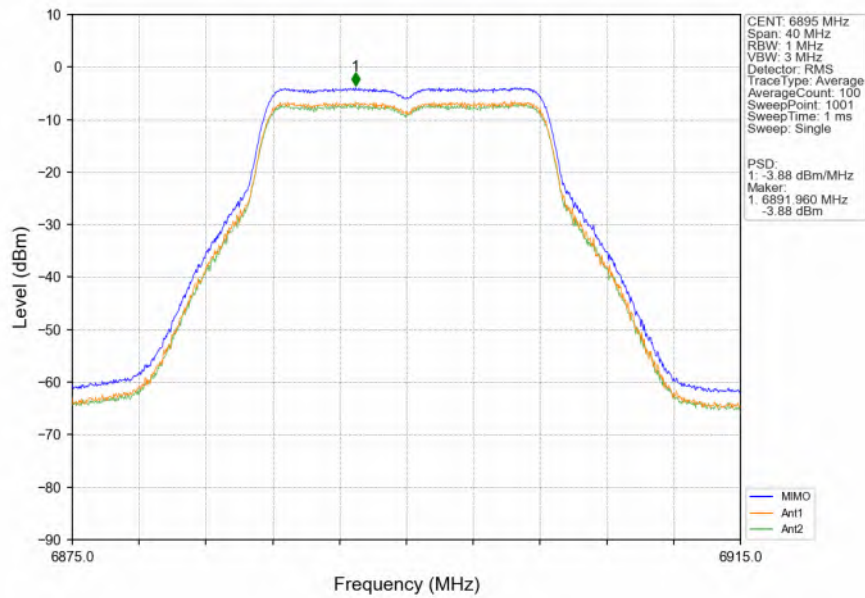
802.11a HCH 6855MHz MIMO NTN



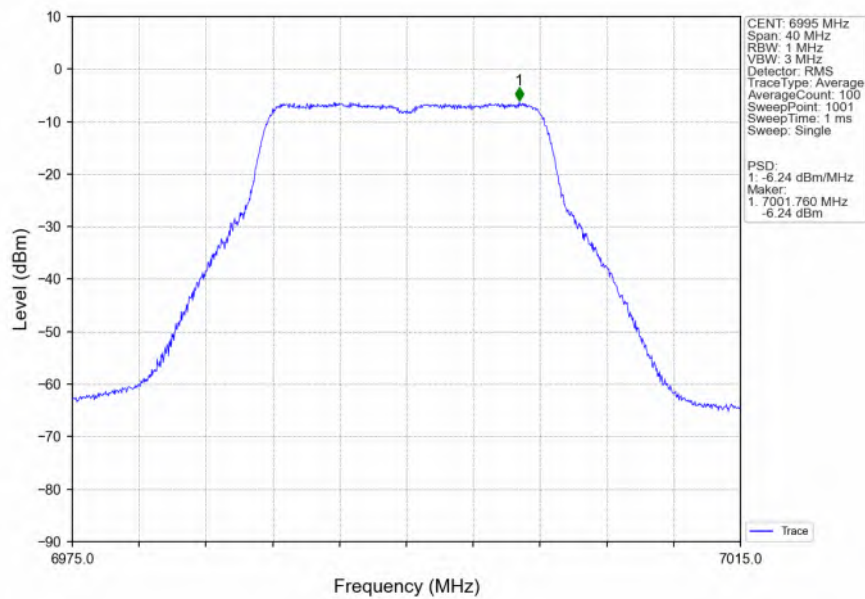
4.2.7 PSD



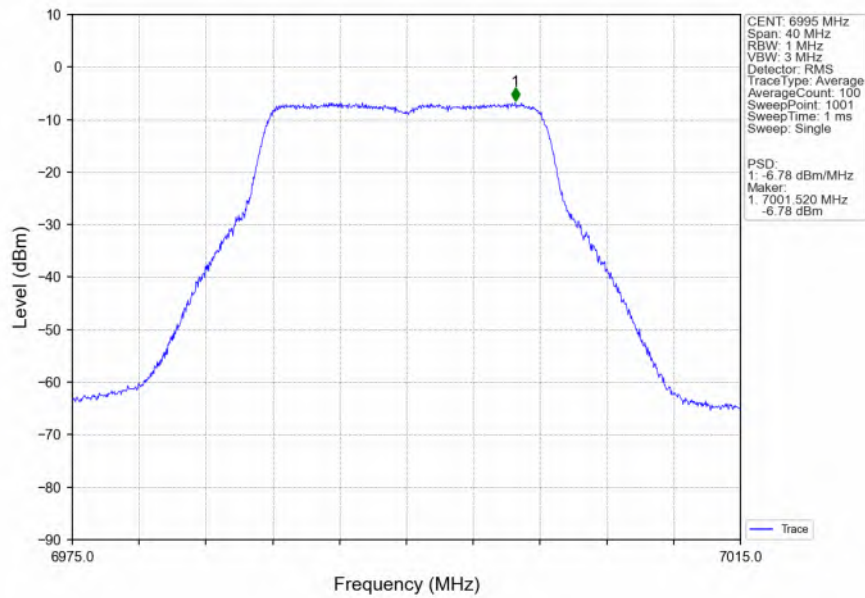
802.11a LCH 6895MHz MIMO NTNV



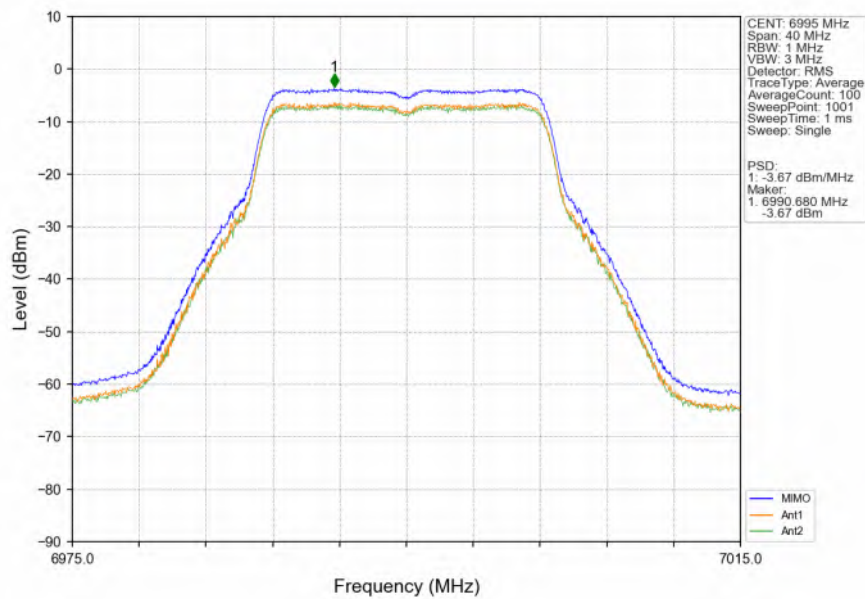
802.11a MCH 6995MHz Ant1 NTNV



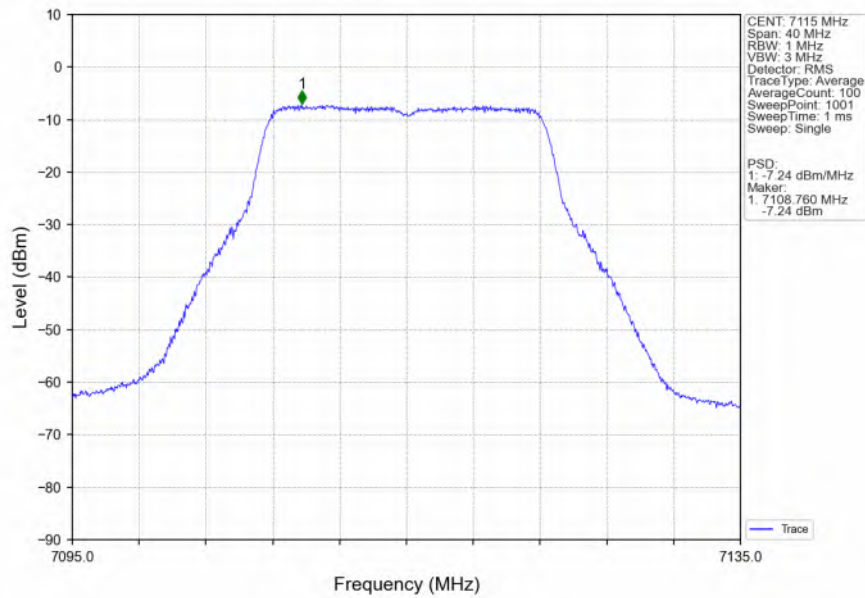
802.11a MCH 6995MHz Ant2 NTN



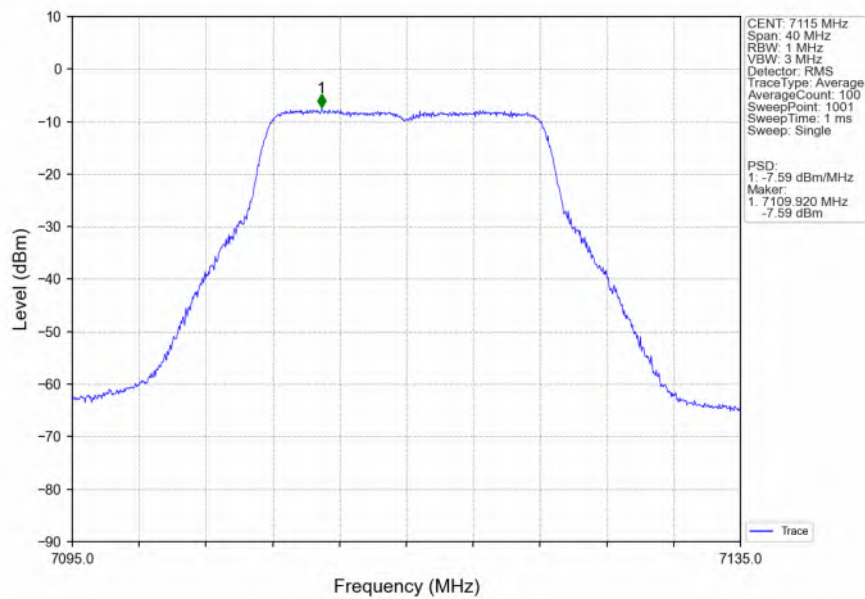
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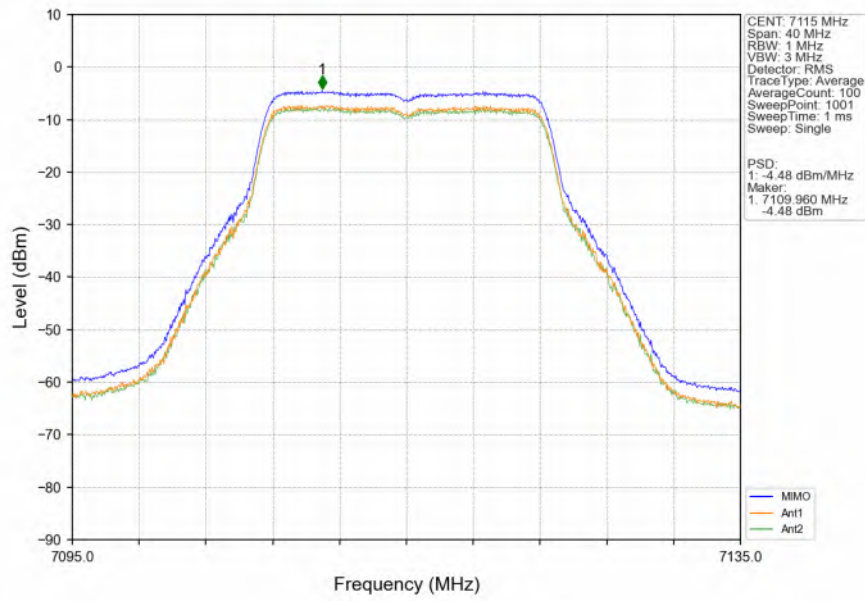
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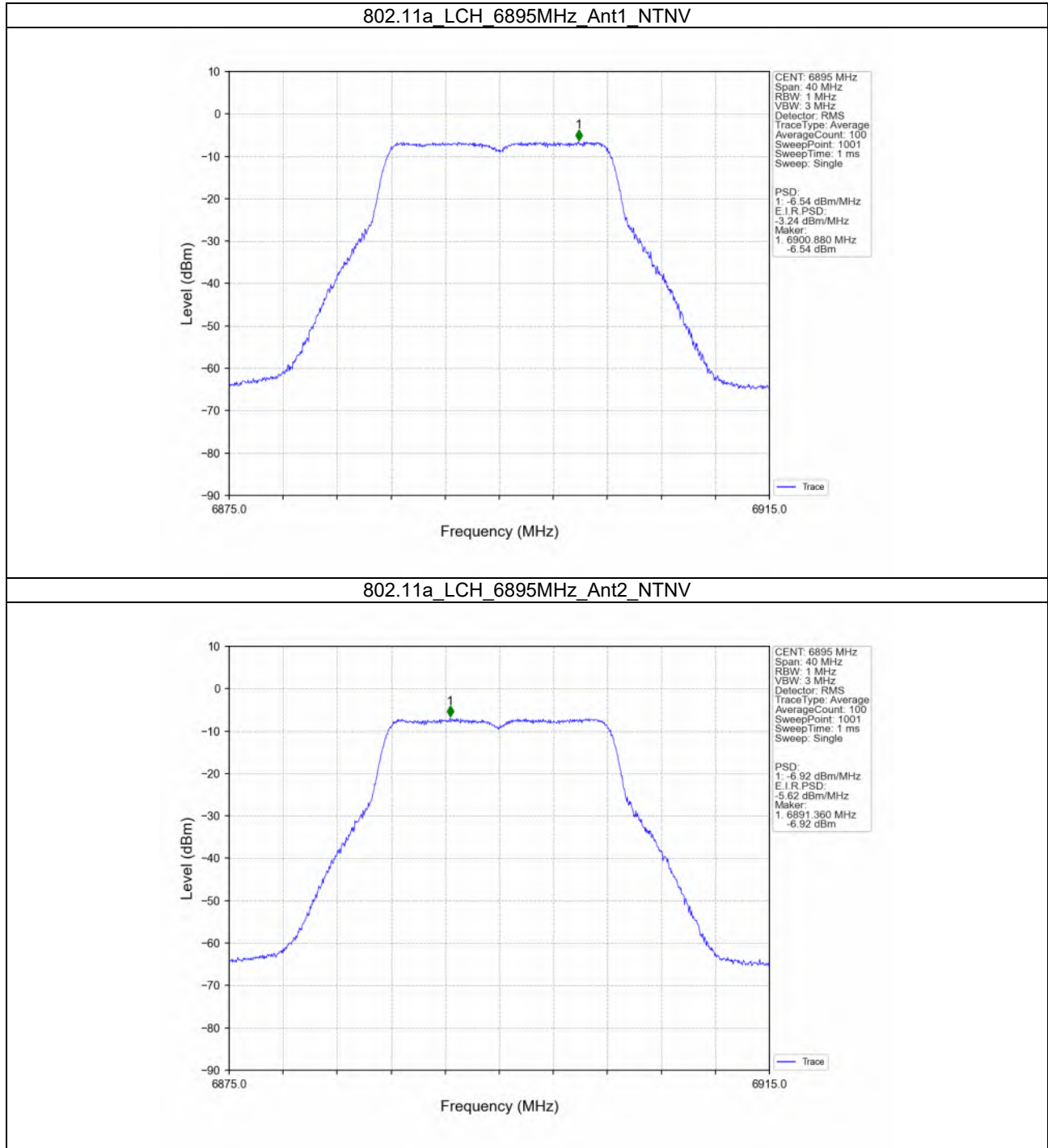
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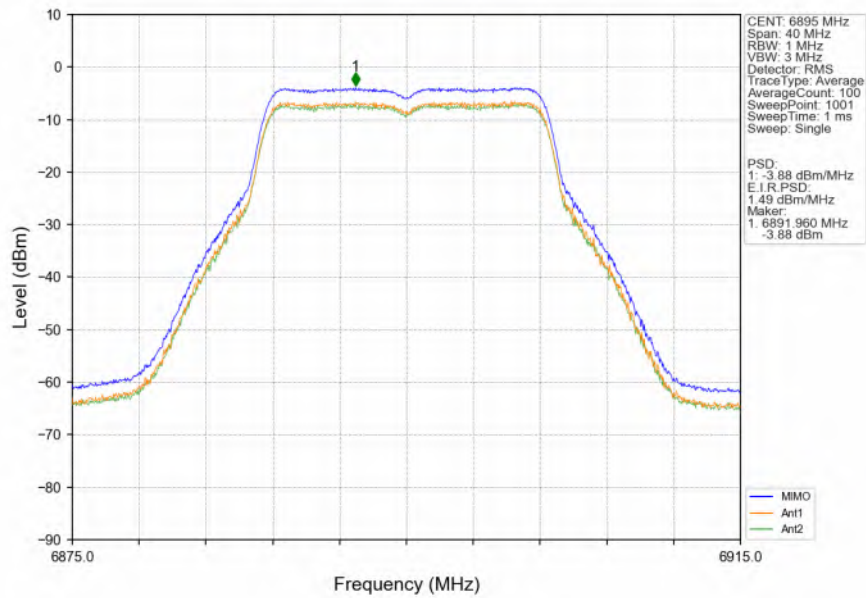
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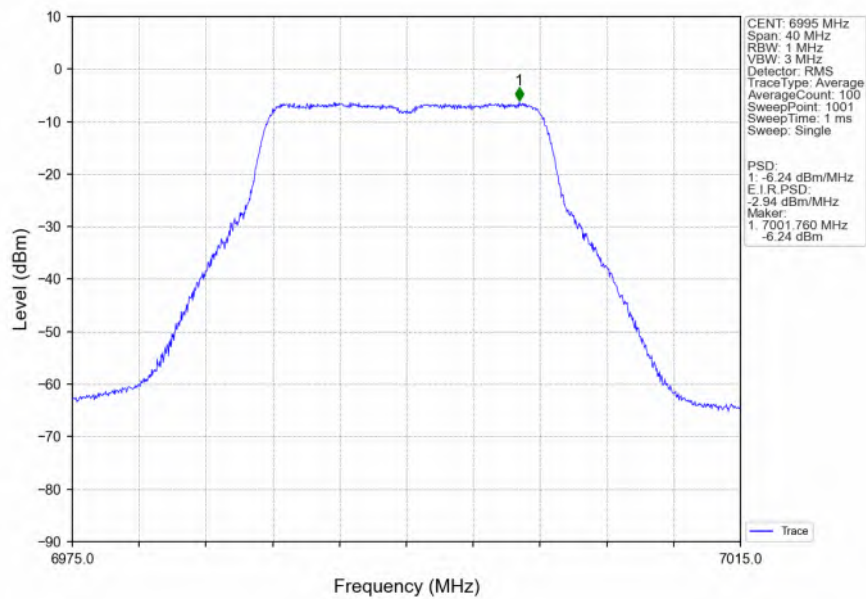
4.2.8 E.I.R.PSD



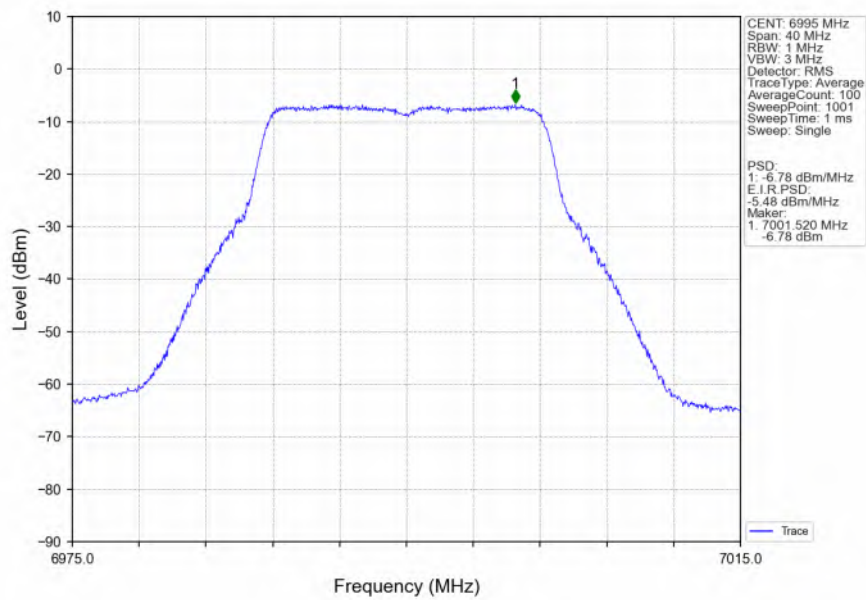
802.11a LCH 6895MHz MIMO NTN



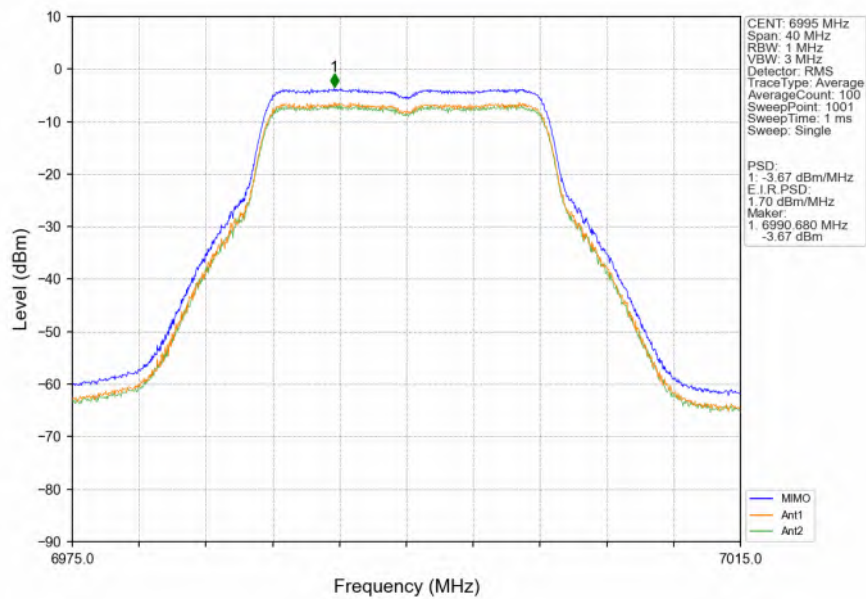
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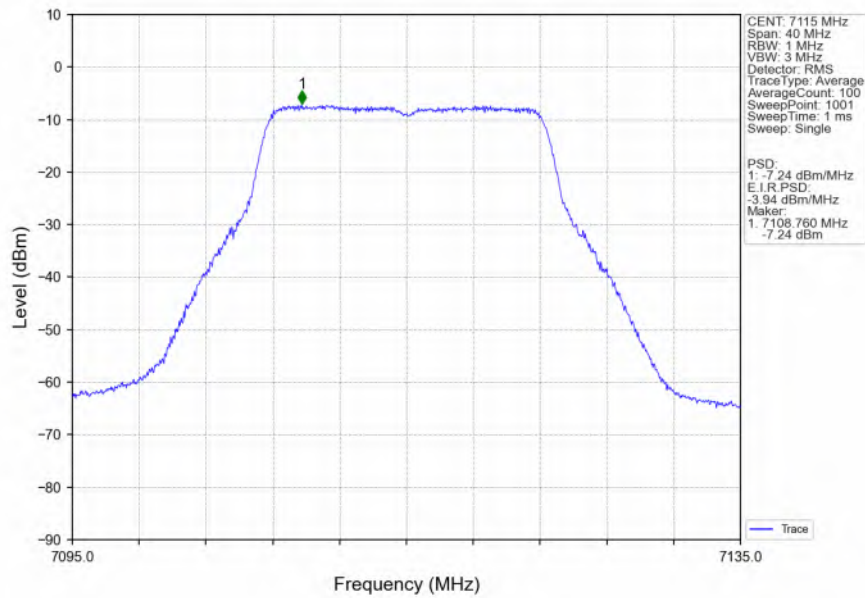
802.11a MCH 6995MHz Ant2 NTN



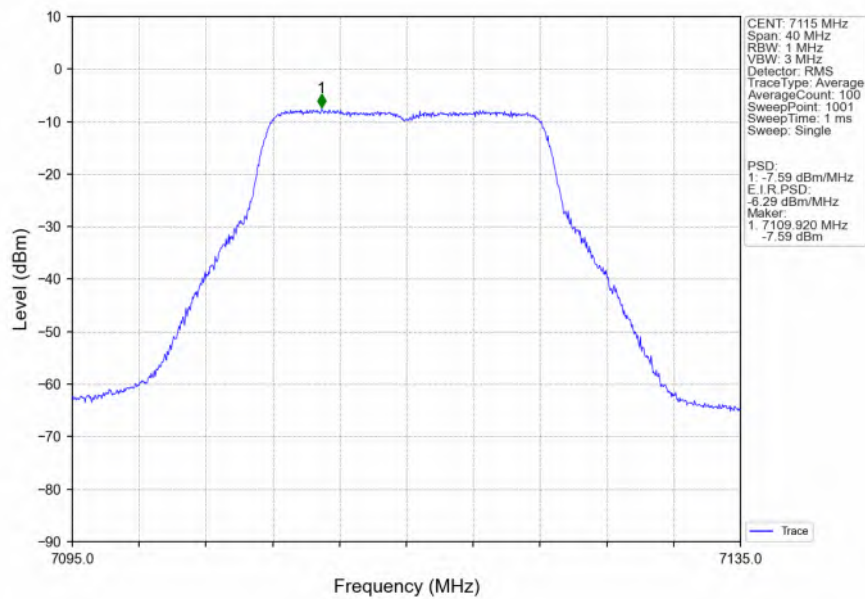
802.11a MCH 6995MHz MIMO NTN

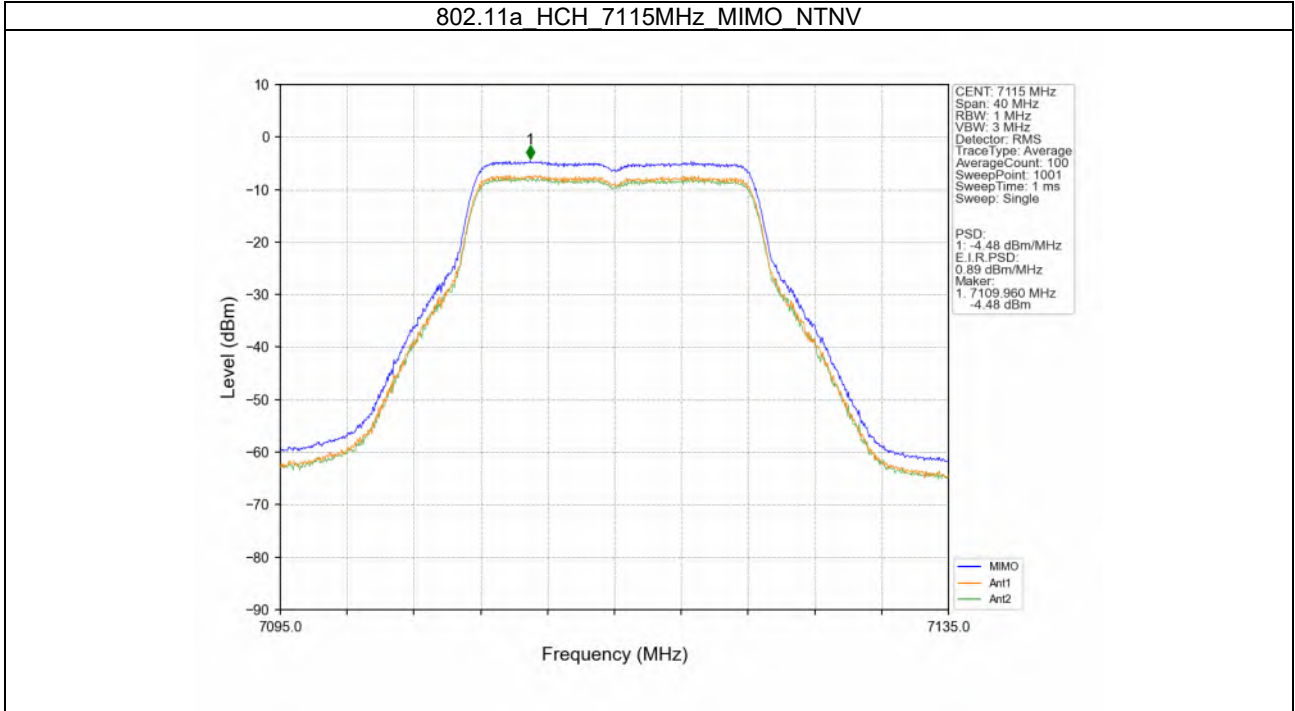


802.11a HCH 7115MHz Ant1 NTN

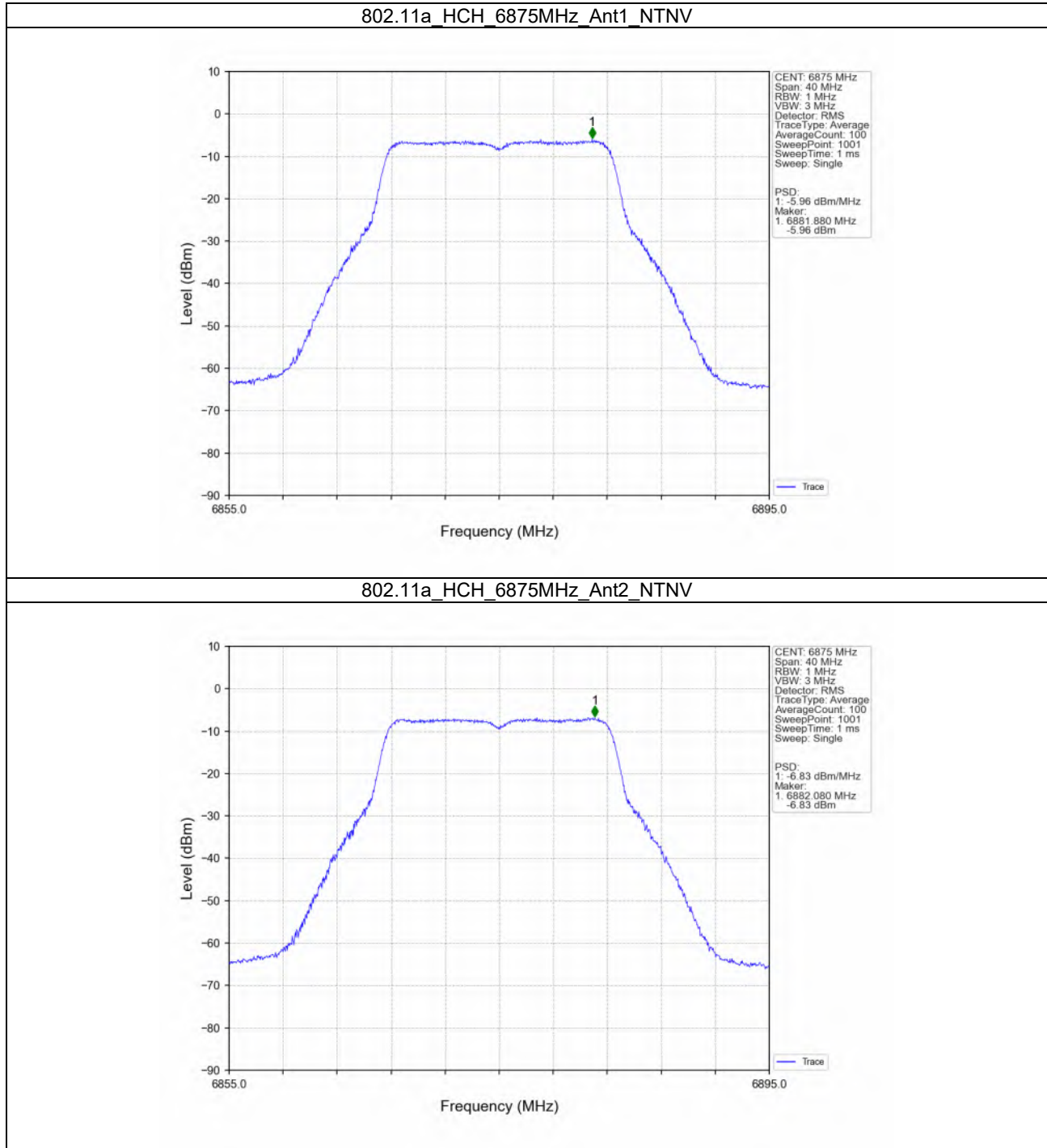


802.11a HCH 7115MHz Ant2 NTN

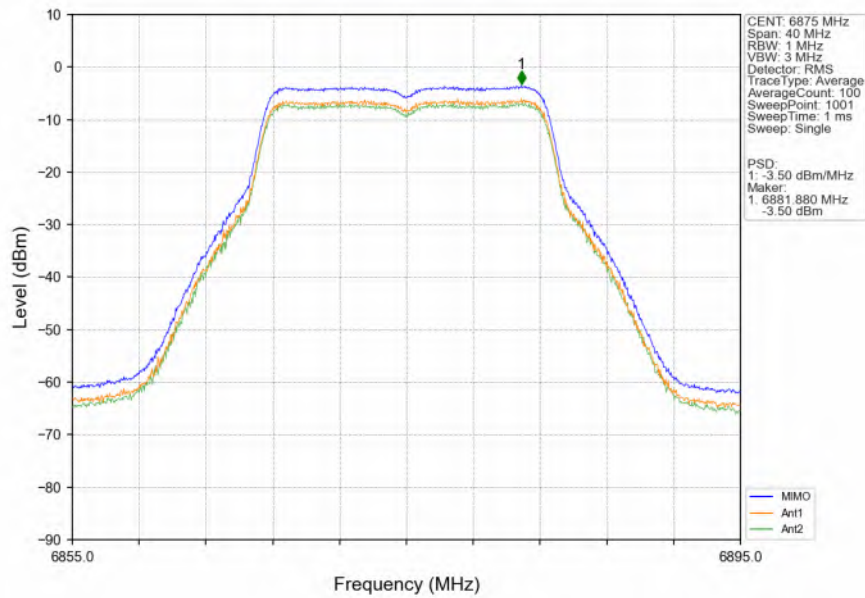




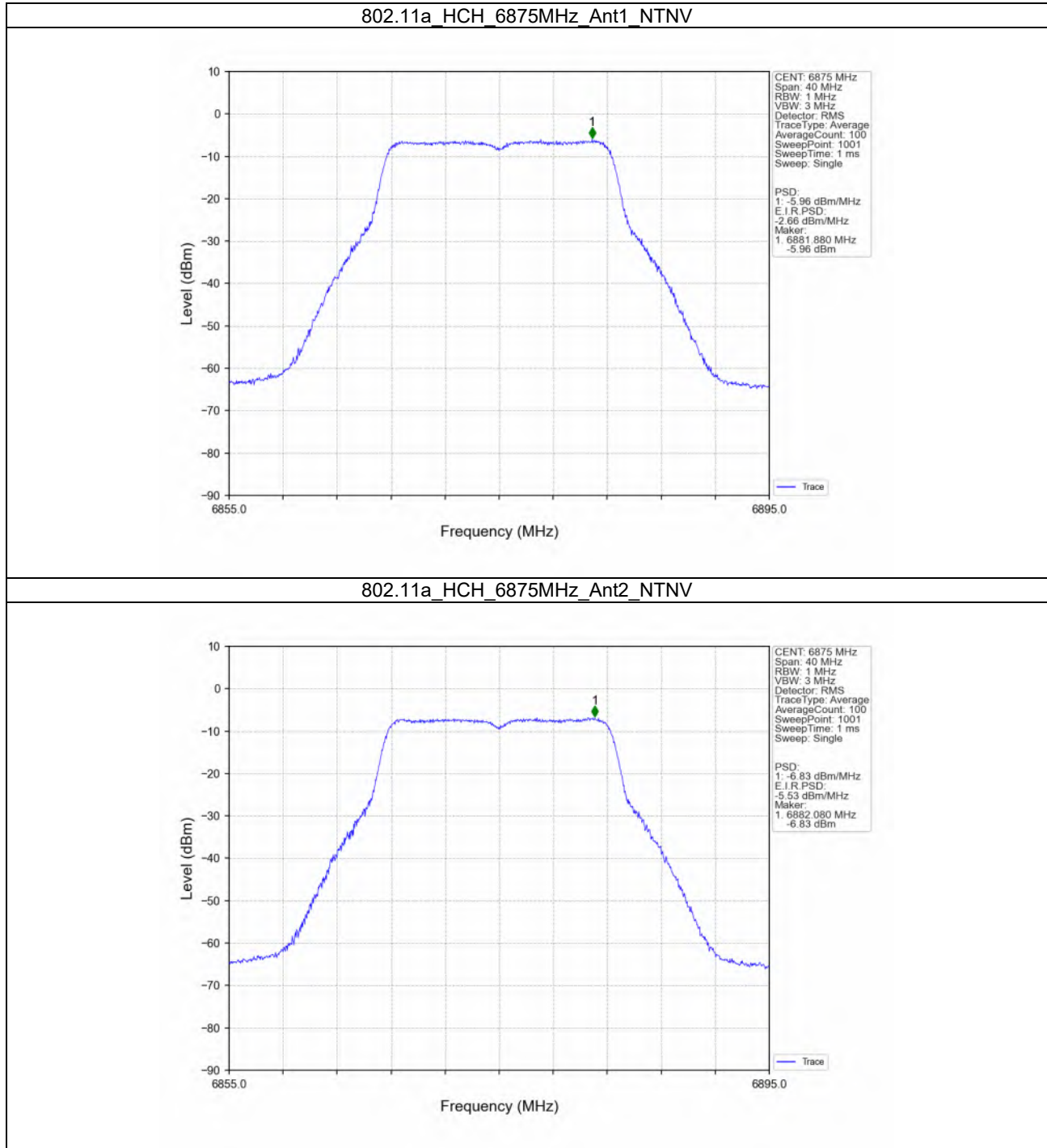
4.2.9 PSD



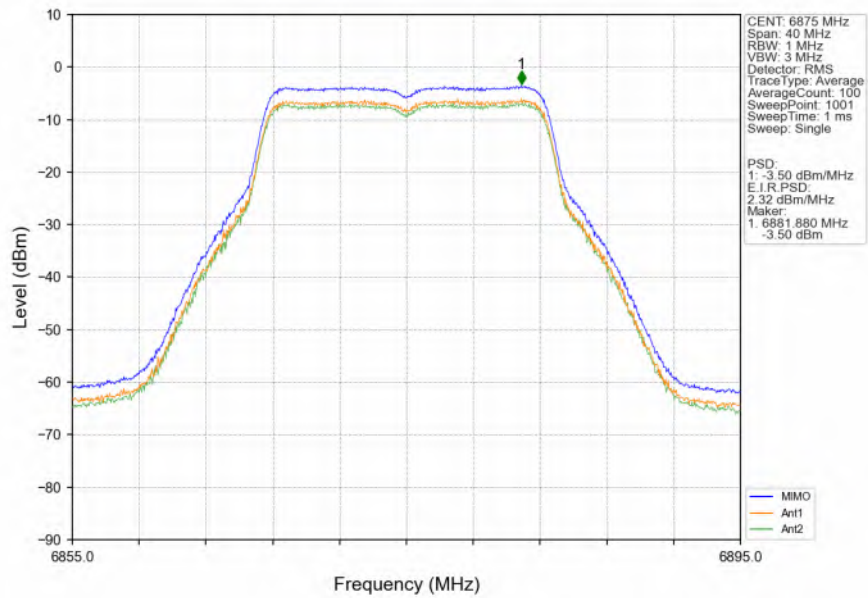
802.11a HCH 6875MHz MIMO NTN



4.2.10 E.I.R.PSD



802.11a HCH 6875MHz MIMO NTN





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5. Emission Mask

5.1 Test Result

5.1.1 EMask

ENV	Mode	TX Type	Frequency (MHz)	ANT	Test Result	Limit	Verdict
NTNV	802.11a	MIMO	5955	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			6175	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			6415	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass

5.1.2 EMask

ENV	Mode	TX Type	Frequency (MHz)	ANT	Test Result	Limit	Verdict
NTNV	802.11a	MIMO	6435	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			6475	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			6515	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass

5.1.3 EMask

ENV	Mode	TX Type	Frequency (MHz)	ANT	Test Result	Limit	Verdict
NTNV	802.11a	MIMO	6535	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			6695	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			6855	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass

5.1.4 EMask

ENV	Mode	TX Type	Frequency (MHz)	ANT	Test Result	Limit	Verdict
NTNV	802.11a	MIMO	6895	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			6995	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass
			7115	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass

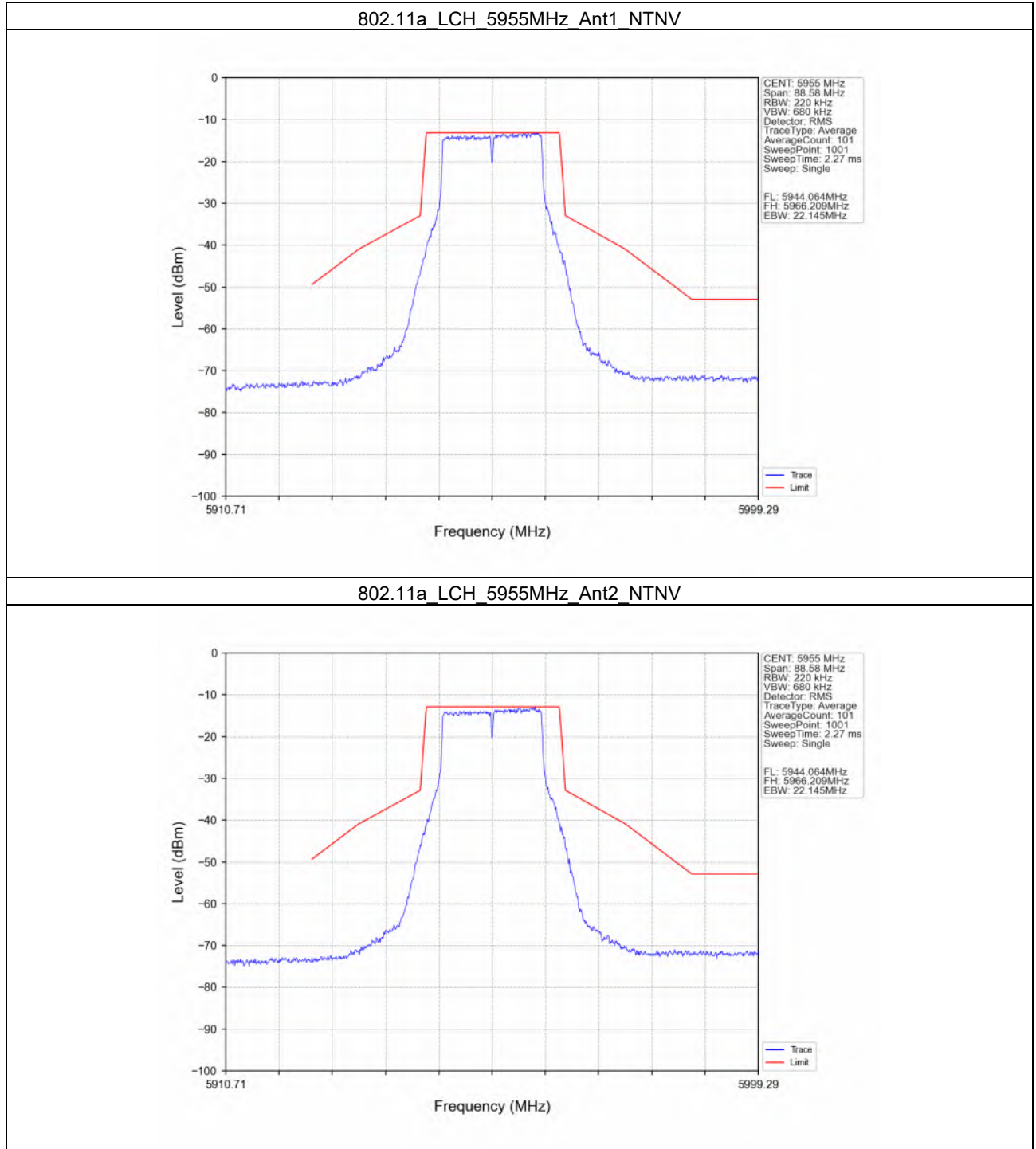


5.1.5 EMask

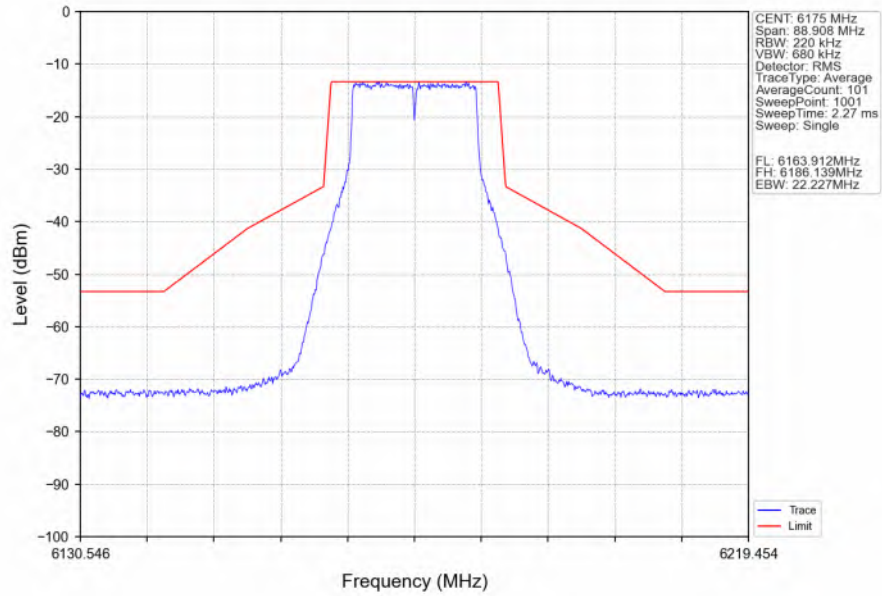
ENV	Mode	TX Type	Frequency (MHz)	ANT	Test Result	Limit	Verdict
NTNV	802.11a	MIMO	6875	1	Refer To Test Graph		Pass
				2	Refer To Test Graph		Pass

5.2 Test Graph

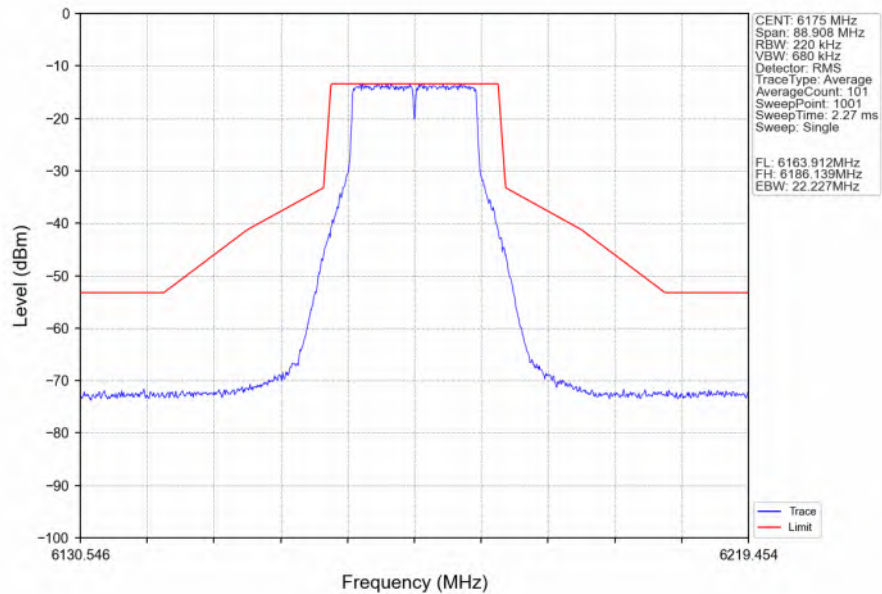
5.2.1 EMask



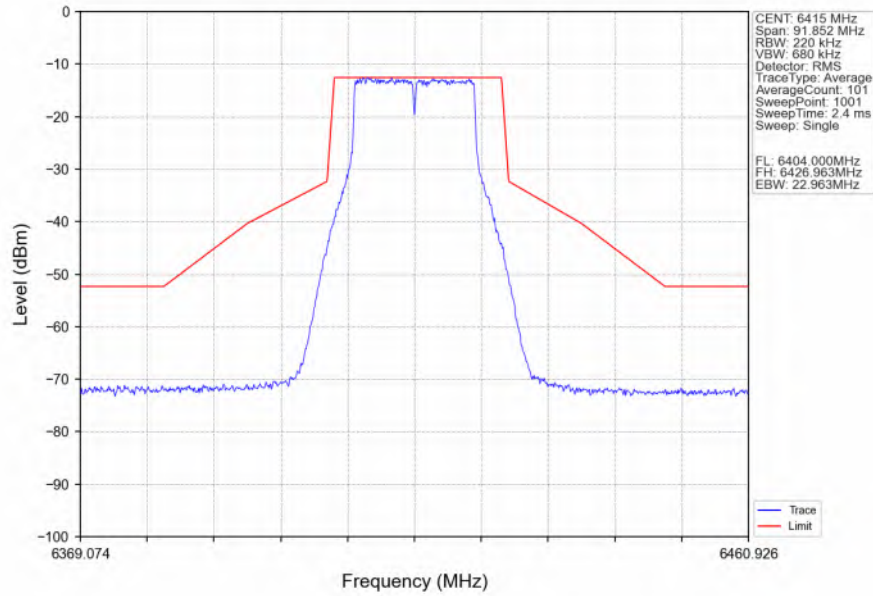
802.11a_MCH_6175MHz_Ant1_NTNV



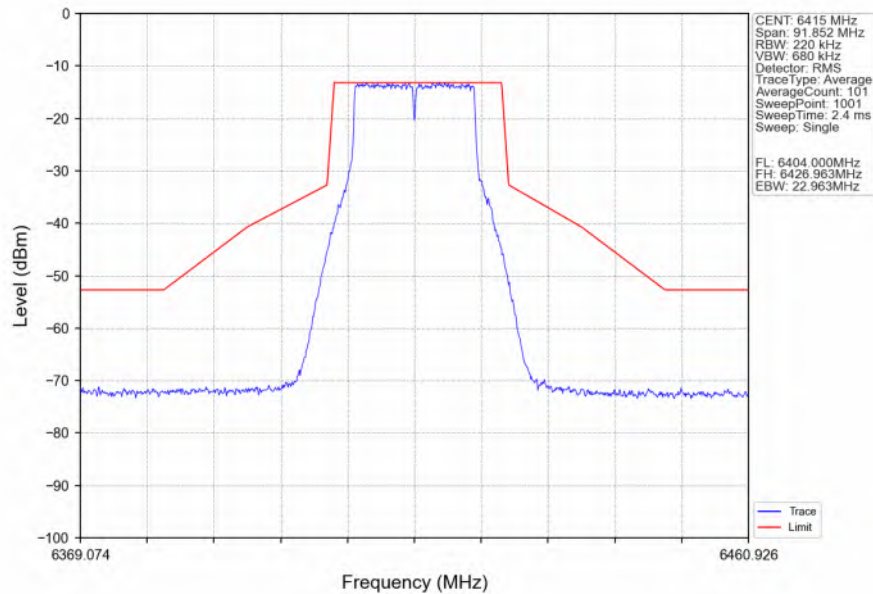
802.11a_MCH_6175MHz_Ant2_NTNV



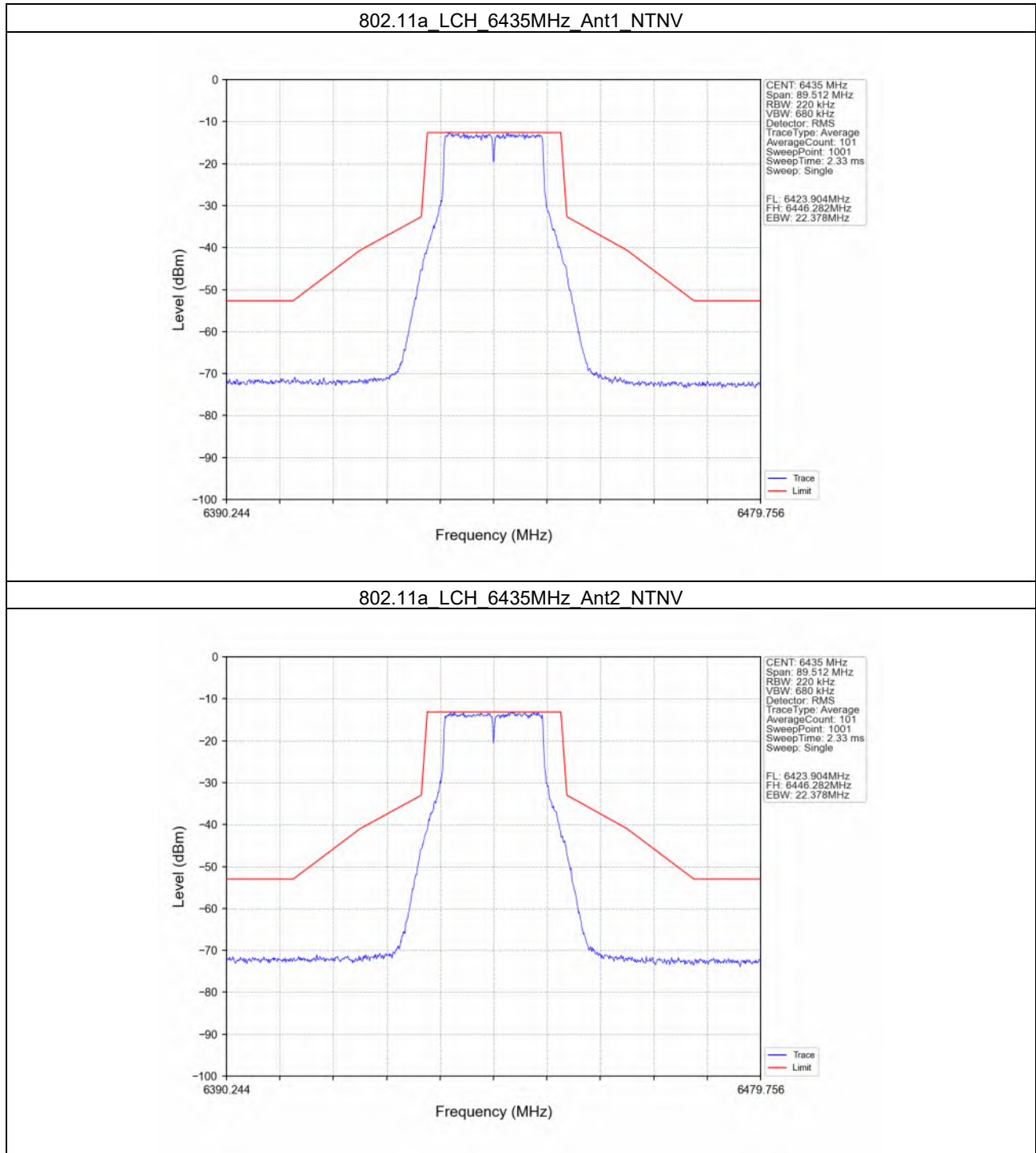
802.11a_HCH_6415MHz_Ant1_NTNV



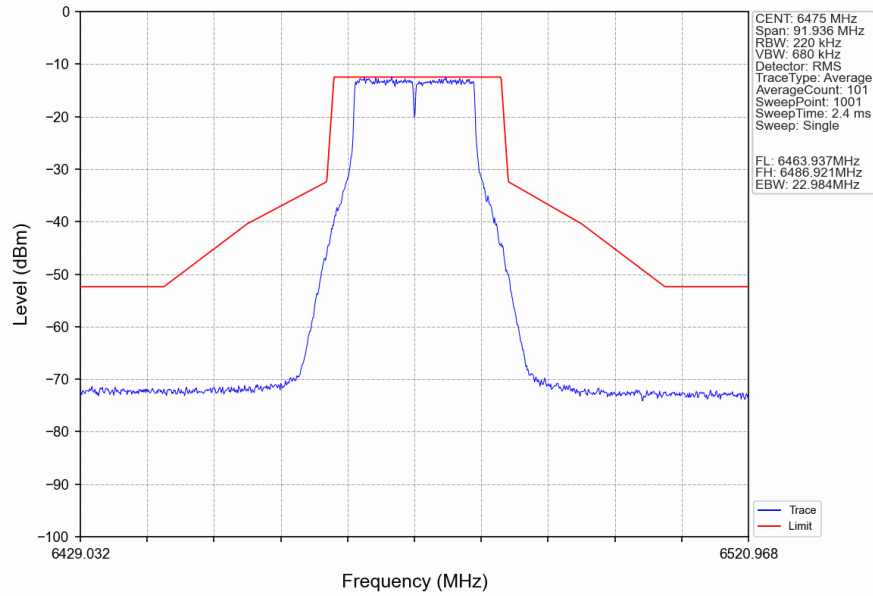
802.11a_HCH_6415MHz_Ant2_NTNV



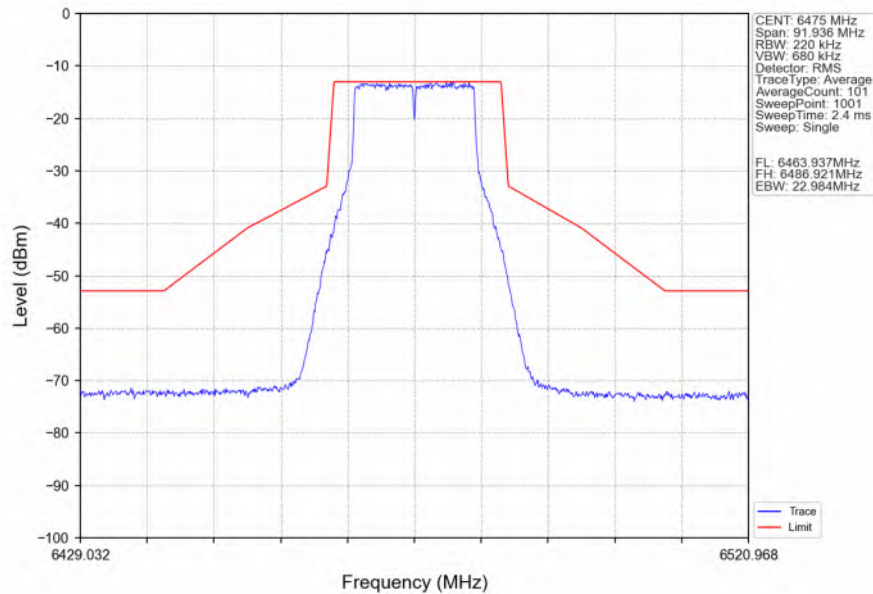
5.2.2 EMask



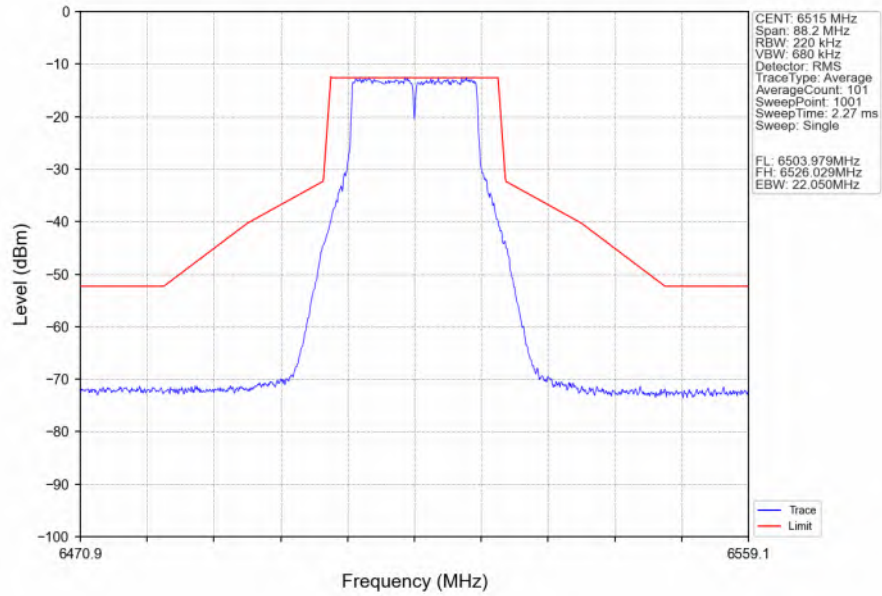
802.11a MCH 6475MHz Ant1 NTN



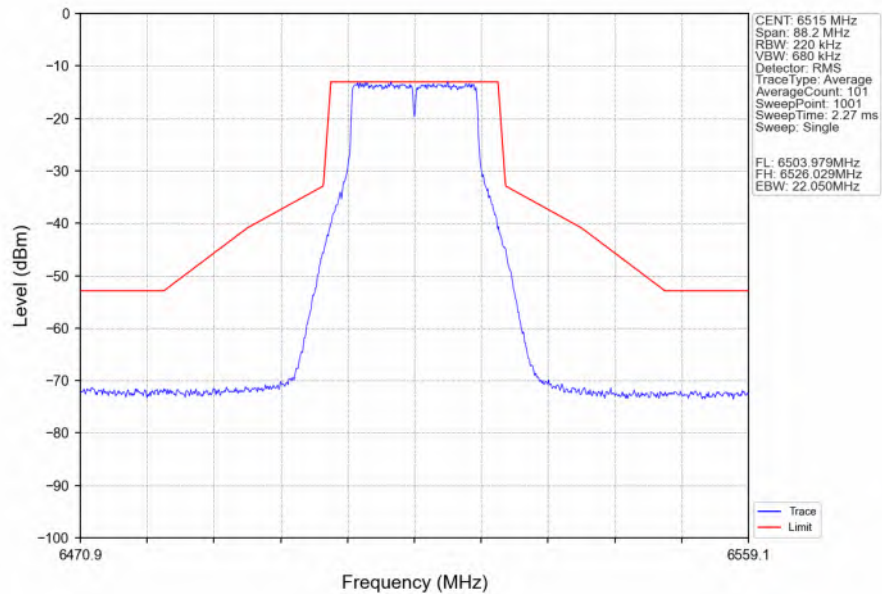
802.11a MCH 6475MHz Ant2 NTN



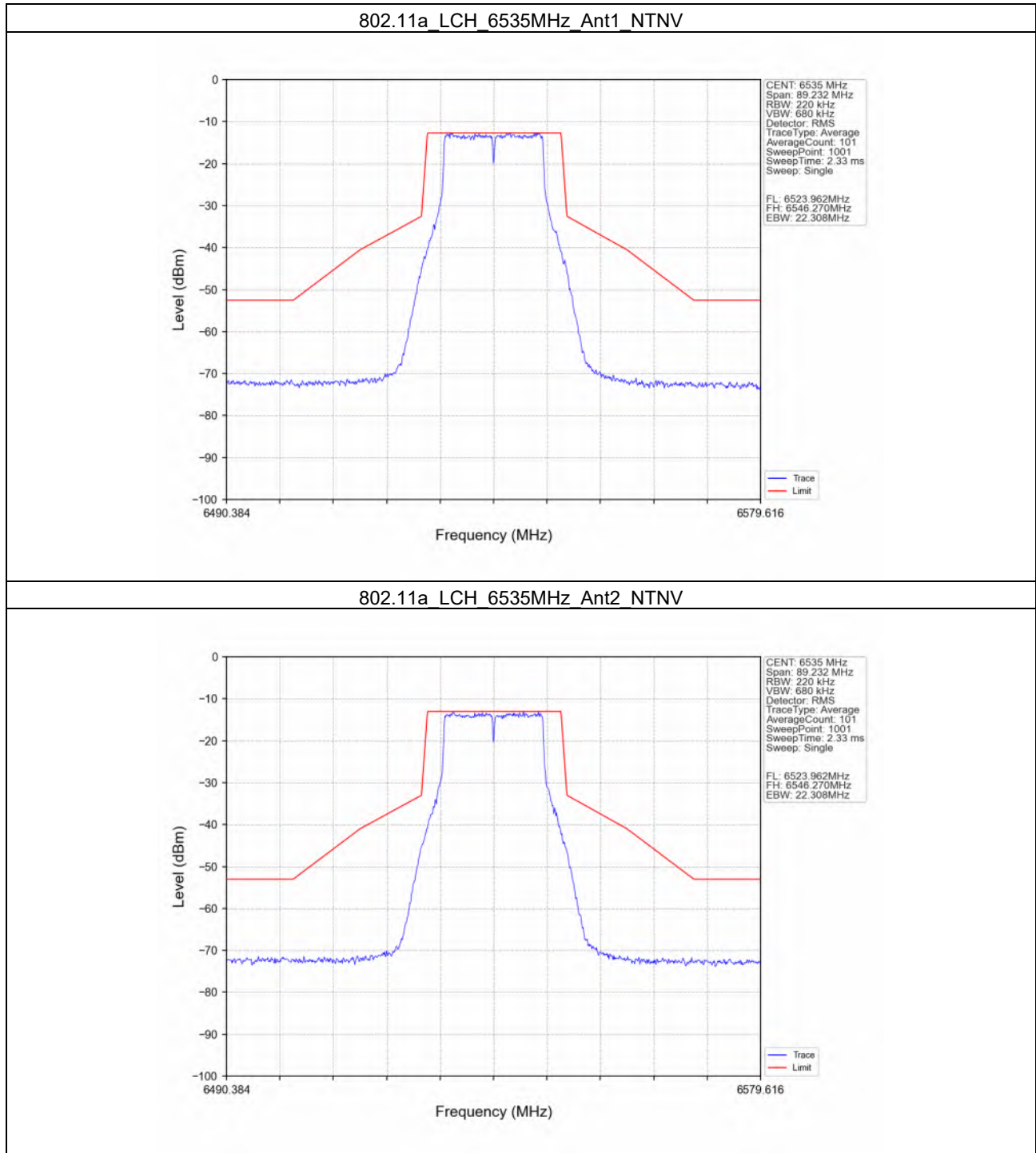
802.11a_HCH_6515MHz_Ant1_NTNV



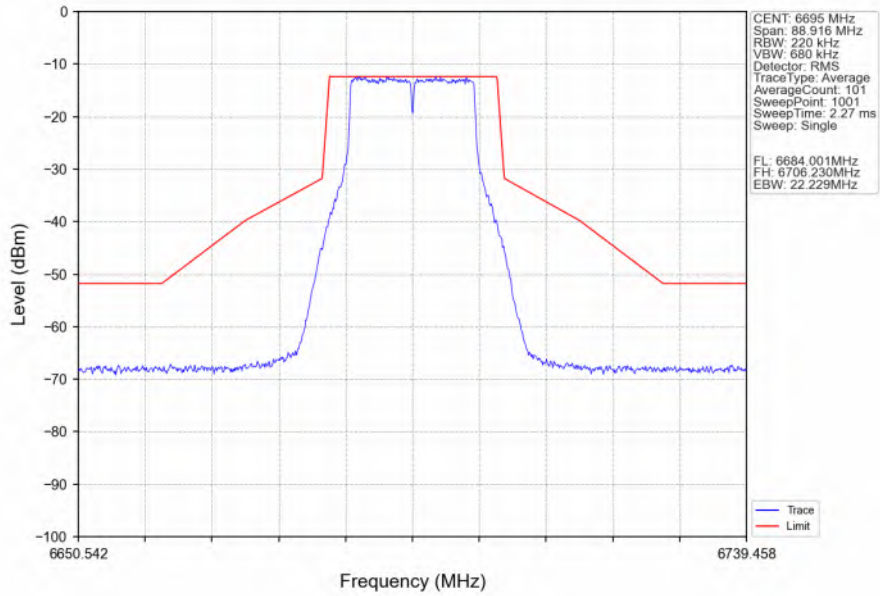
802.11a_HCH_6515MHz_Ant2_NTNV



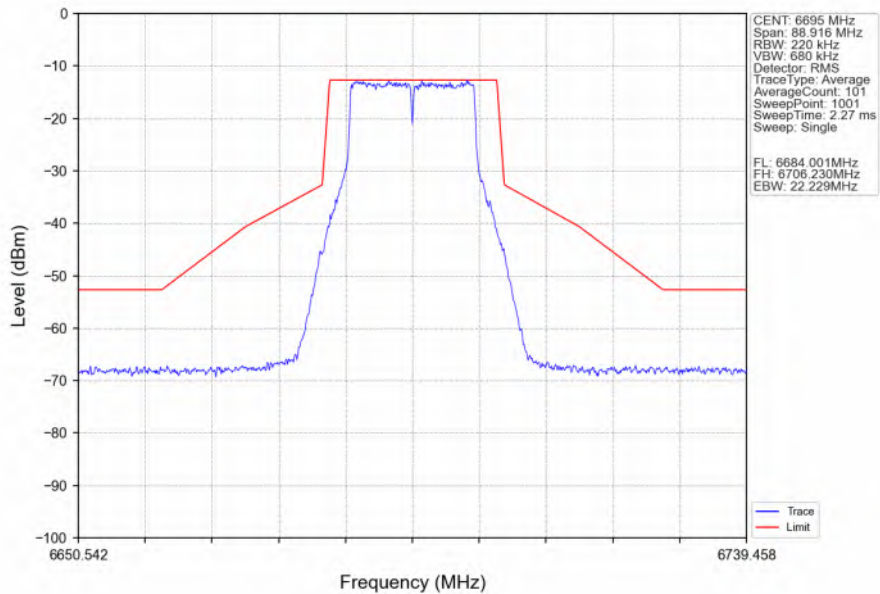
5.2.3 EMask



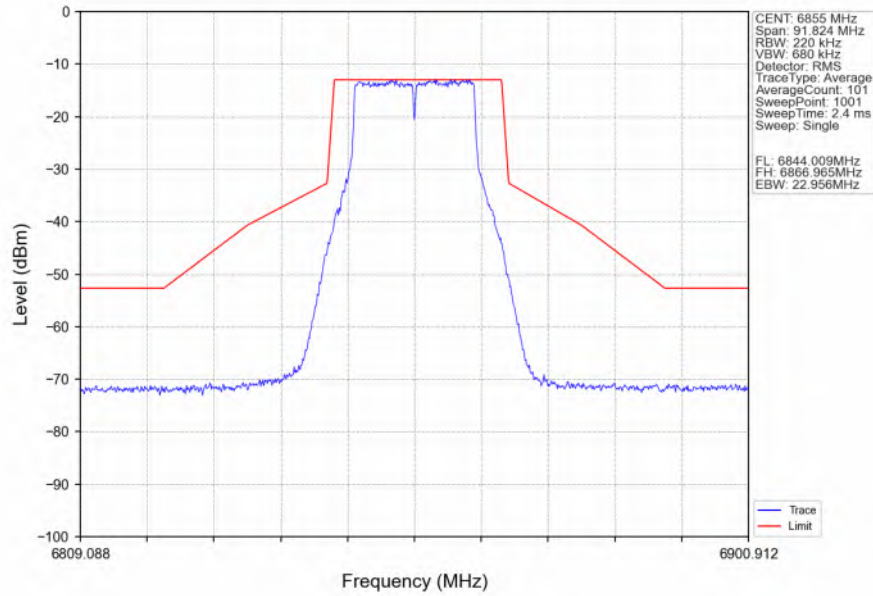
802.11a_MCH_6695MHz_Ant1_NTNV



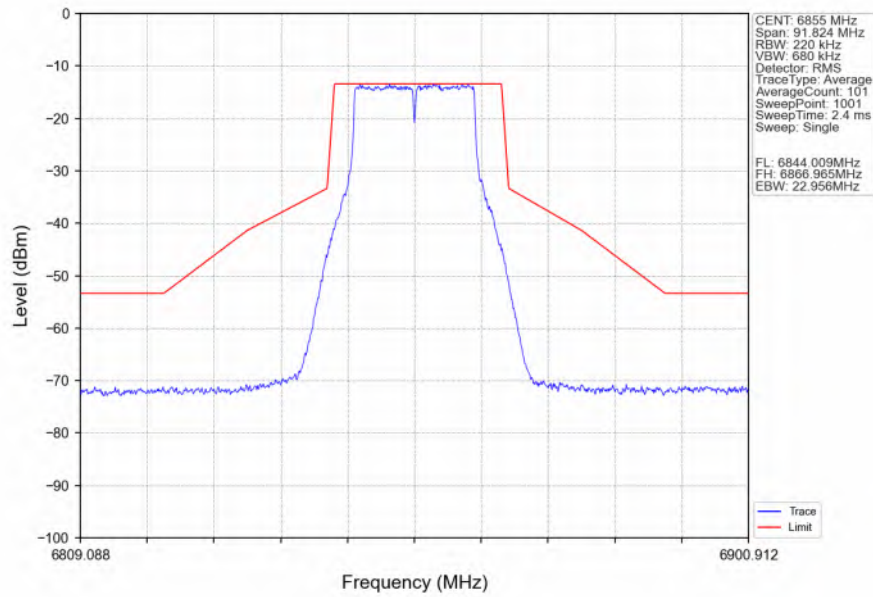
802.11a_MCH_6695MHz_Ant2_NTNV



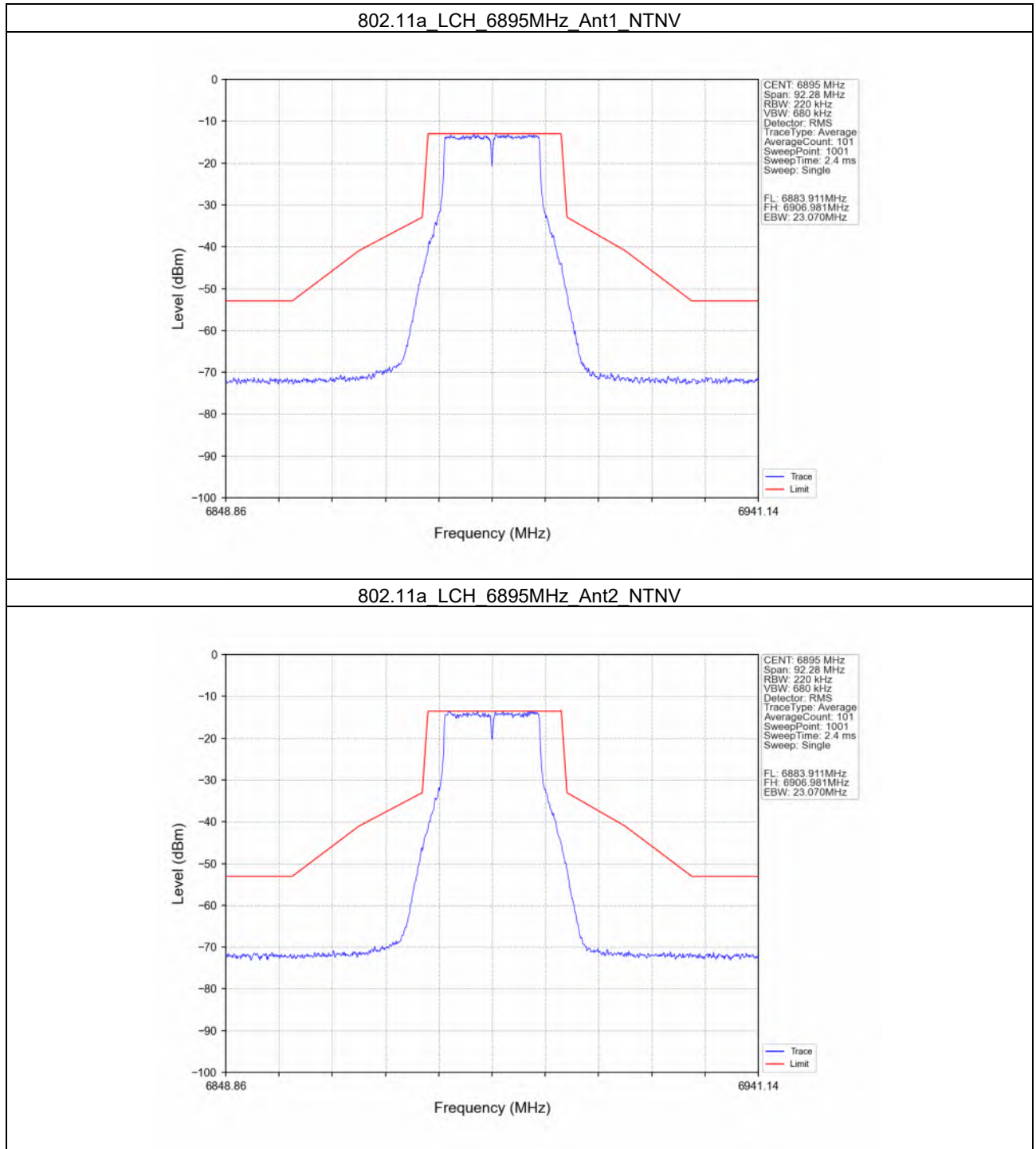
802.11a_HCH_6855MHz_Ant1_NTNV



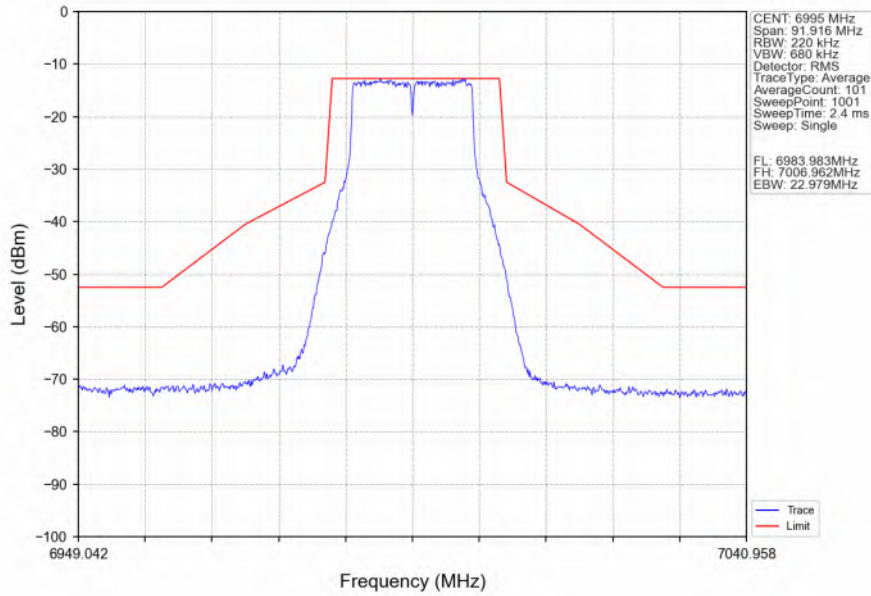
802.11a_HCH_6855MHz_Ant2_NTNV



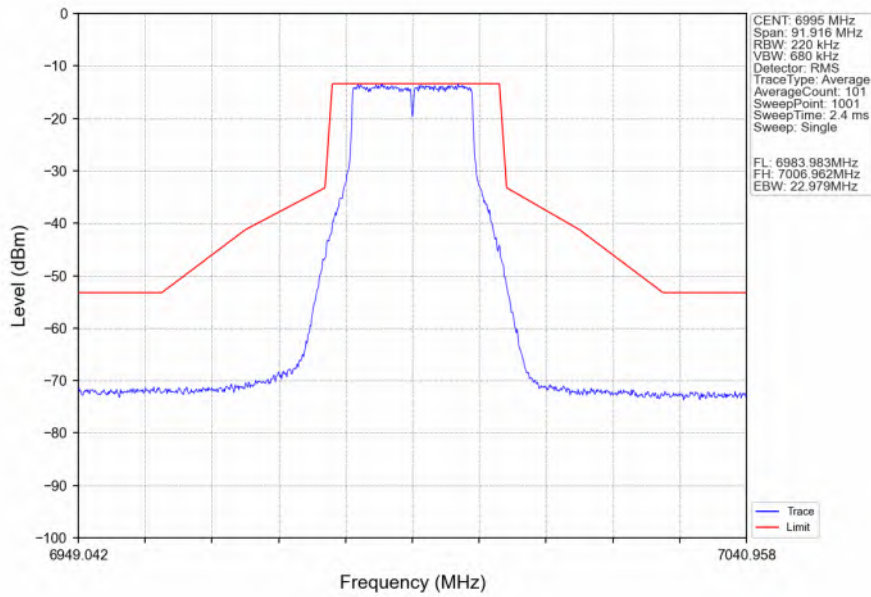
5.2.4 EMask



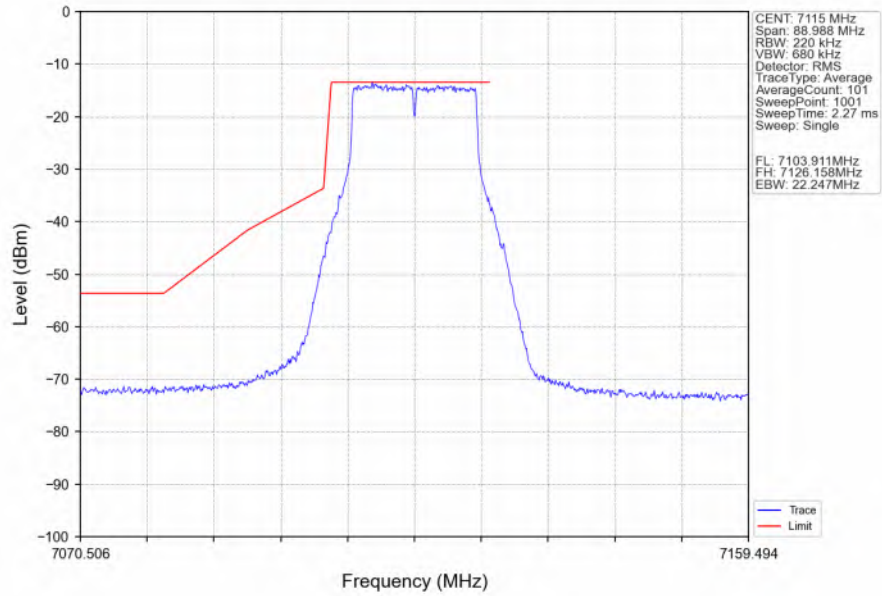
802.11a MCH 6995MHz Ant1 NTN



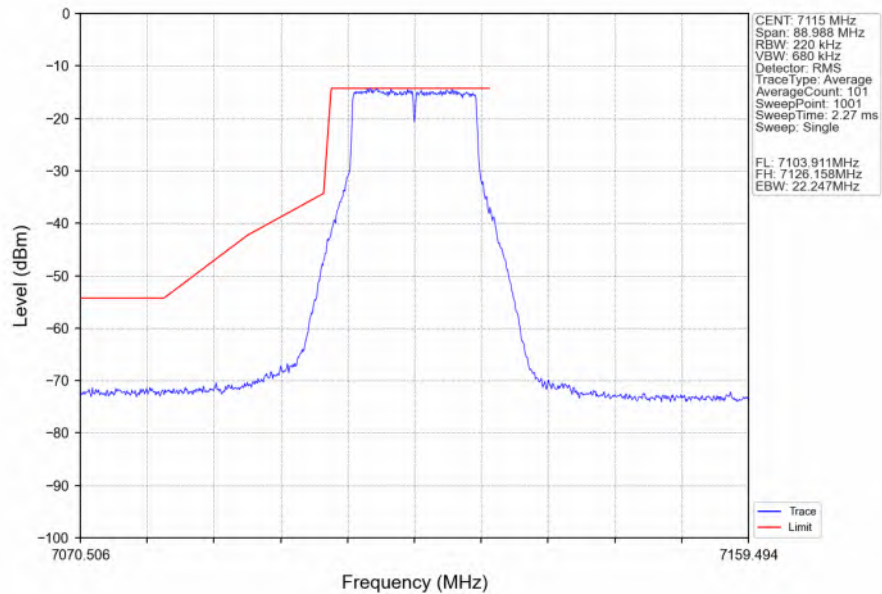
802.11a MCH 6995MHz Ant2 NTN



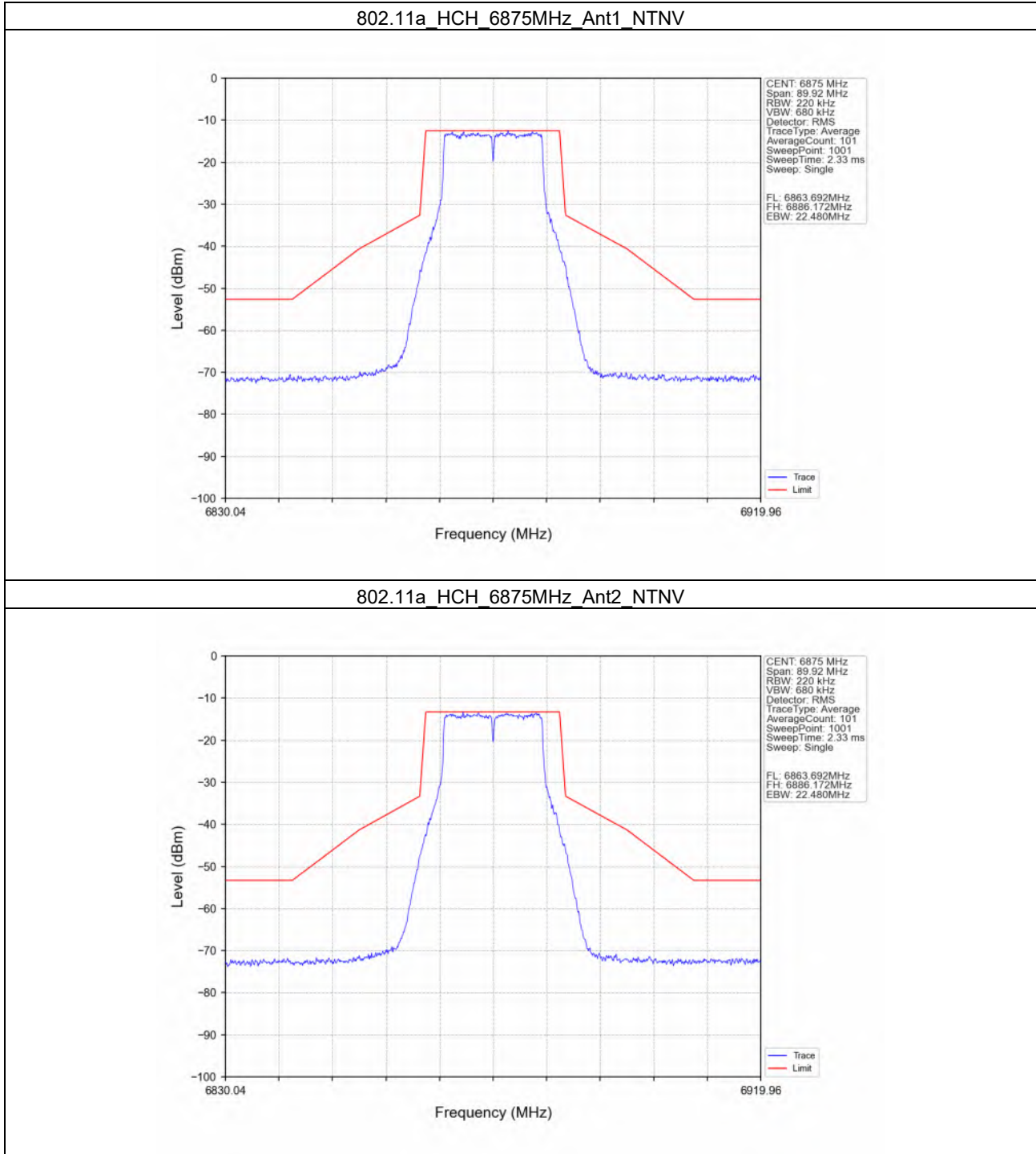
802.11a_HCH_7115MHz_Ant1_NTNV



802.11a_HCH_7115MHz_Ant2_NTNV



5.2.5 EMask





Contention Based Protocol

Test Result

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent Freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Antenna Gain (dBi)	Margin (dB)
UNII Band 5	6175	20	6175	-68.64	100	-62	-72.84	4.2	10.84
					Result: Stop Transmission				
				-69.34	<90	-62	-73.54	4.2	11.54
					Result: Minimal Operation				
				-72.33	0	-62	-76.53	4.2	14.53
	6265	320	6110		Result: Normal Operation				
				-71.62	100	-62	-75.82	4.2	13.82
					Result: Stop Transmission				
				-72.64	<90	-62	-76.84	4.2	14.84
					Result: Minimal Operation				
			6265	-75.33	0	-62	-79.53	4.2	17.53
					Result: Normal Operation				
				-64.87	100	-62	-69.07	4.2	7.07
					Result: Stop Transmission				
				-65.94	<90	-62	-70.14	4.2	8.14
					Result: Minimal Operation				
			6420	-68.55	0	-62	-72.75	4.2	10.75
					Result: Normal Operation				
				-70.96	100	-62	-75.16	4.2	13.16
					Result: Stop Transmission				
				-71.98	<90	-62	-76.18	4.2	14.18
					Result: Minimal Operation				
				-75.43	0	-62	-79.63	4.2	17.63
					Result: Normal Operation				

Note1: Adjusted Power (dBm)= Injected AWGN Level (dBm) — Antenna Gain (dBi)

Note2: Margin (dB)= Regulated Threshold level (dBm) — Adjusted Power (dBm)

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent Freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Antenna Gain (dBi)	Margin (dB)
UNII Band 6	6475	20	6475	-67.96	100	-62	-69.76	1.8	7.76
				Result: Stop Transmission					
				-68.9	<90	-62	-70.7	1.8	8.7
				Result: Minimal Operation					
				-72.33	0	-62	-74.13	1.8	12.13
	6425	320	6270	Result: Normal Operation					
				-73.17	100	-62	-74.97	1.8	12.97
				Result: Stop Transmission					
				-74.03	<90	-62	-75.83	1.8	13.83
				Result: Minimal Operation					
			6425	-77.21	0	-62	-79.01	1.8	17.01
				Result: Normal Operation					
				-63.78	100	-62	-65.58	1.8	3.58
				Result: Stop Transmission					
				-64.83	<90	-62	-66.63	1.8	4.63
				Result: Minimal Operation					
			6580	-67.56	0	-62	-69.36	1.8	7.36
				Result: Normal Operation					
				-71.97	100	-62	-73.77	1.8	11.77
				Result: Stop Transmission					
				-72.85	<90	-62	-74.65	1.8	12.65
				Result: Minimal Operation					
				-75.99	0	-62	-77.79	1.8	15.79
				Result: Normal Operation					

Note1: Adjusted Power (dBm)= Injected AWGN Level (dBm) — Antenna Gain (dBi)

Note2: Margin (dB)= Regulated Threshold level (dBm) — Adjusted Power (dBm)

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent Freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Antenna Gain (dBi)	Margin (dB)
UNII Band 7	6695	20	6695	-69.28	100	-62	-71.78	2.5	9.78
				Result: Stop Transmission					
				-70.21	<90	-62	-72.71	2.5	10.71
				Result: Minimal Operation					
				-73.38	0	-62	-75.88	2.5	13.88
				Result: Normal Operation					
	6745	320	6590	-73.42	100	-62	-75.92	2.5	13.92
				Result: Stop Transmission					
				-74.32	<90	-62	-76.82	2.5	14.82
				Result: Minimal Operation					
				-77.45	0	-62	-79.95	2.5	17.95
				Result: Normal Operation					
			6745	-63.27	100	-62	-65.77	2.5	3.77
				Result: Stop Transmission					
				-64.57	<90	-62	-67.07	2.5	5.07
				Result: Minimal Operation					
				-67.88	0	-62	-70.38	2.5	8.38
				Result: Normal Operation					
			6900	-71.61	100	-62	-74.11	2.5	12.11
				Result: Stop Transmission					
				-72.42	<90	-62	-74.92	2.5	12.92
				Result: Minimal Operation					
				-75.66	0	-62	-78.16	2.5	16.16
				Result: Normal Operation					

Note1: Adjusted Power (dBm)= Injected AWGN Level (dBm) — Antenna Gain (dBi)

Note2: Margin (dB)= Regulated Threshold level (dBm) — Adjusted Power (dBm)



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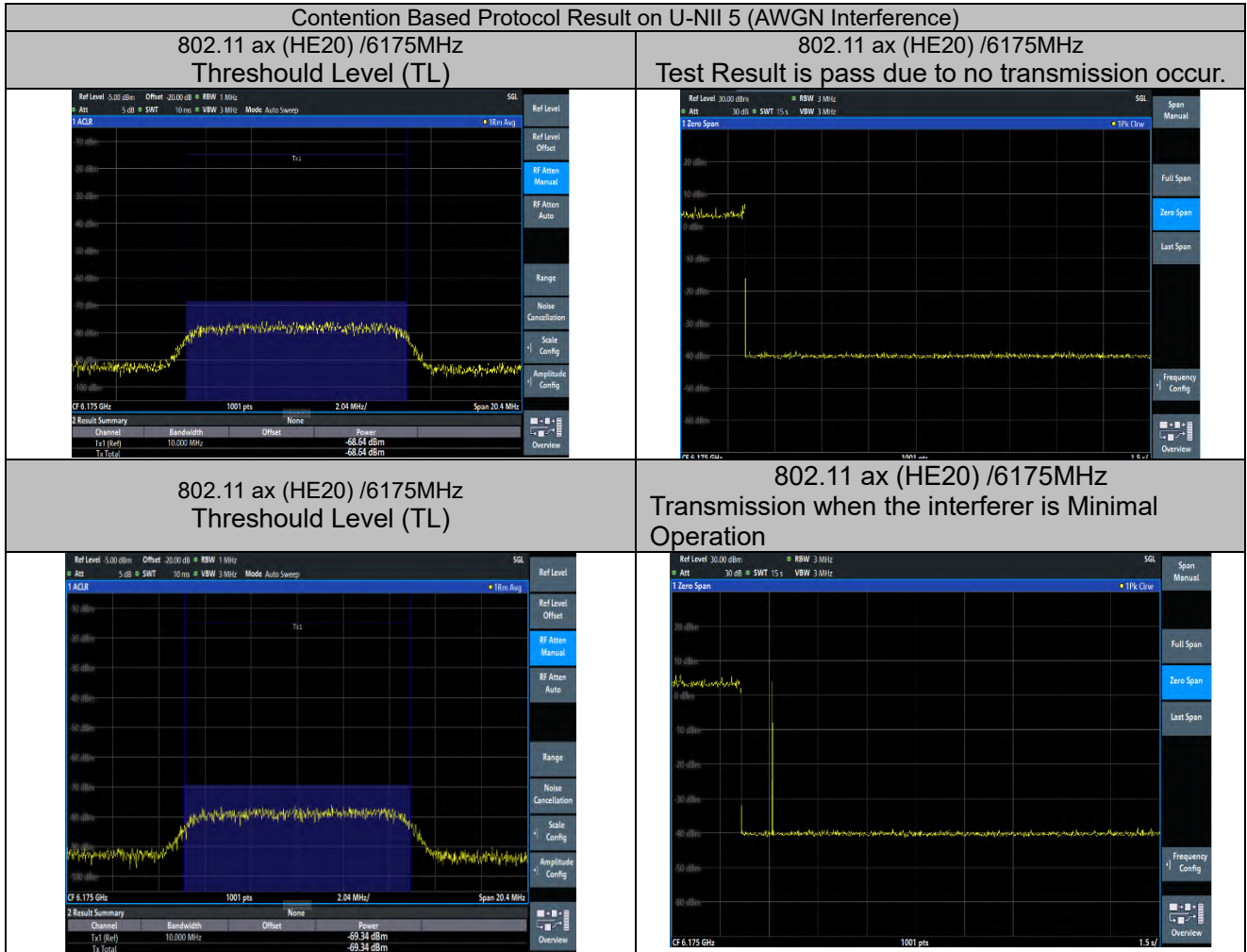
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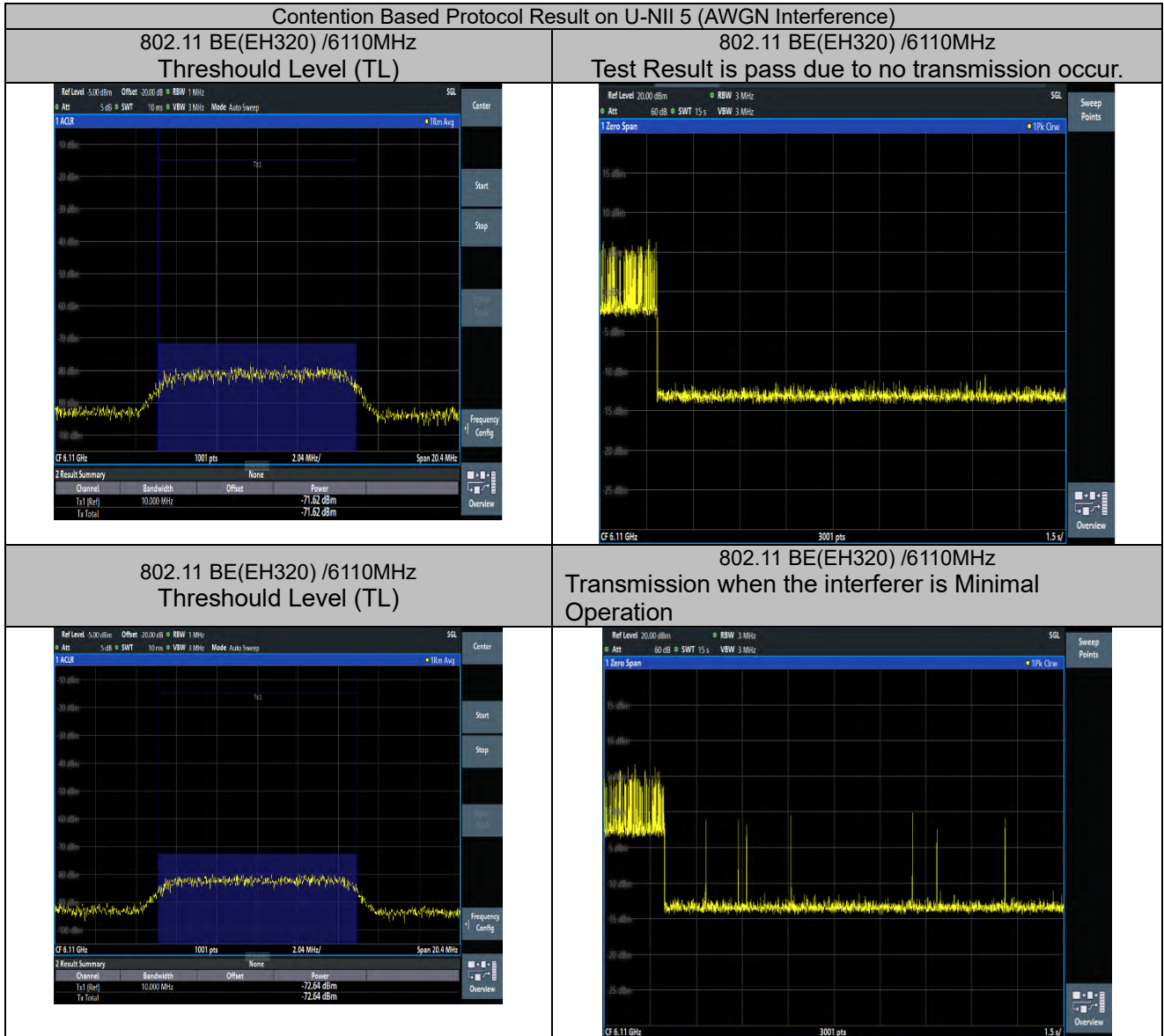
Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent Freq. (MHz)	Injected AWGN Level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Adjusted Power (dBm)	Antenna Gain (dBi)	Margin (dB)
UNII Band 8	6995	20	6995	-68.8	100	-62	-70.1	1.3	8.1
				Result: Stop Transmission					
				-69.45	<90	-62	-70.75	1.3	8.75
				Result: Minimal Operation					
				-72.65	0	-62	-73.95	1.3	11.95
				Result: Normal Operation					
	6745	320	6590	-73.42	100	-62	-74.72	1.3	12.72
				Result: Stop Transmission					
				-74.32	<90	-62	-75.62	1.3	13.62
				Result: Minimal Operation					
				-77.45	0	-62	-78.75	1.3	16.75
				Result: Normal Operation					
			6745	-63.27	100	-62	-64.57	1.3	2.57
				Result: Stop Transmission					
				-64.57	<90	-62	-65.87	1.3	3.87
				Result: Minimal Operation					
				-67.88	0	-62	-69.18	1.3	7.18
				Result: Normal Operation					
			6900	-71.61	100	-62	-72.91	1.3	10.91
				Result: Stop Transmission					
				-72.42	<90	-62	-73.72	1.3	11.72
				Result: Minimal Operation					
				-75.66	0	-62	-76.96	1.3	14.96
				Result: Normal Operation					

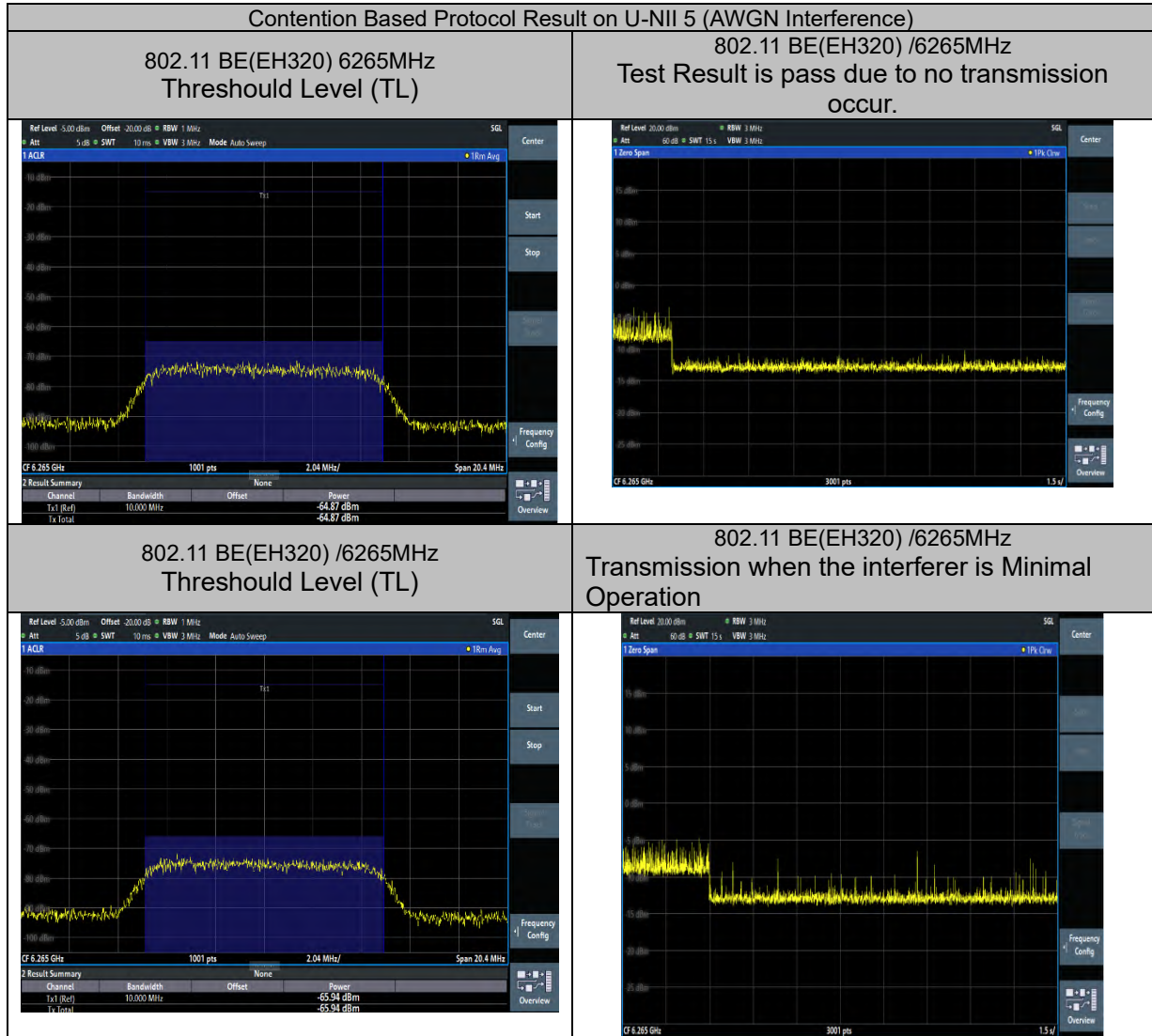
Note1: Adjusted Power (dBm)= Injected AWGN Level (dBm) — Antenna Gain (dBi)

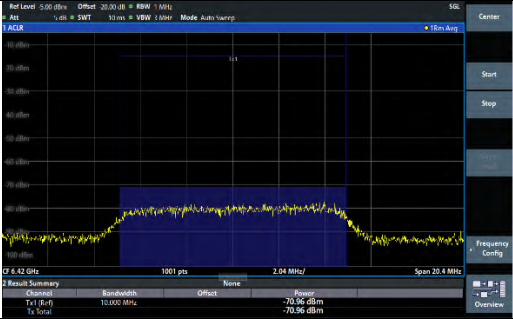
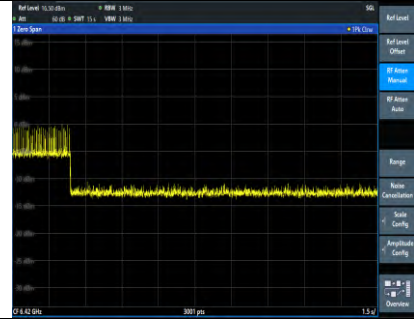
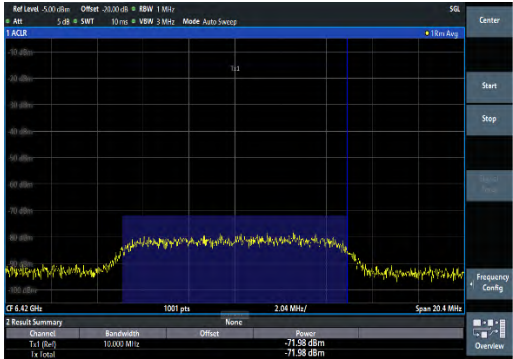
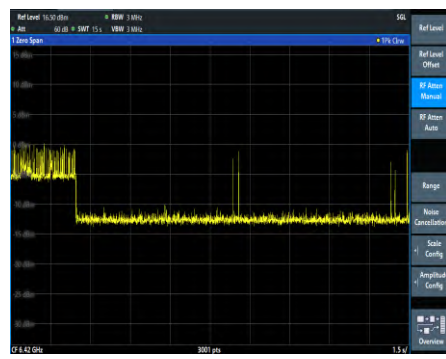
Note2: Margin (dB)= Regulated Threshold level (dBm) — Adjusted Power (dBm)

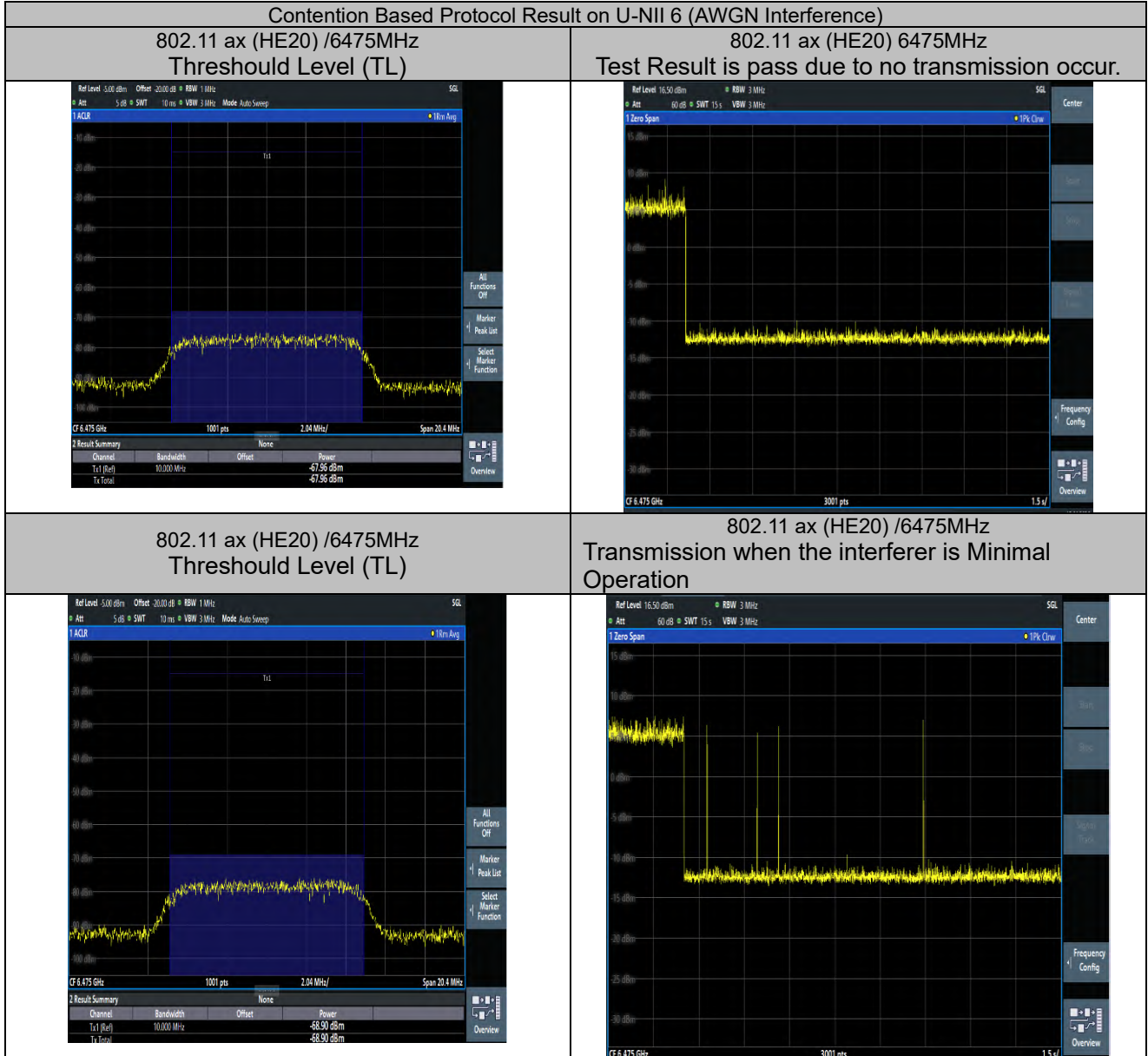
Test Graphs

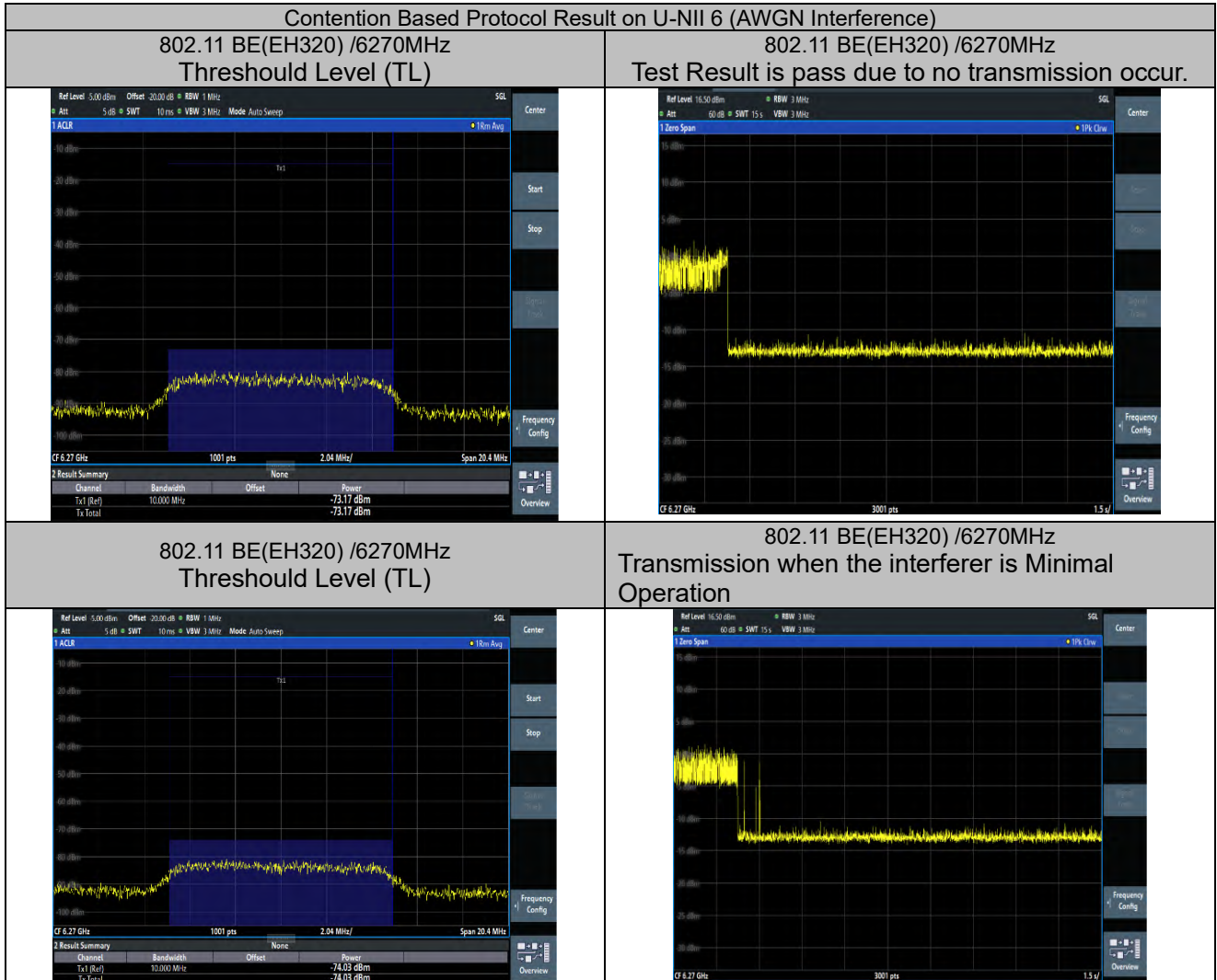


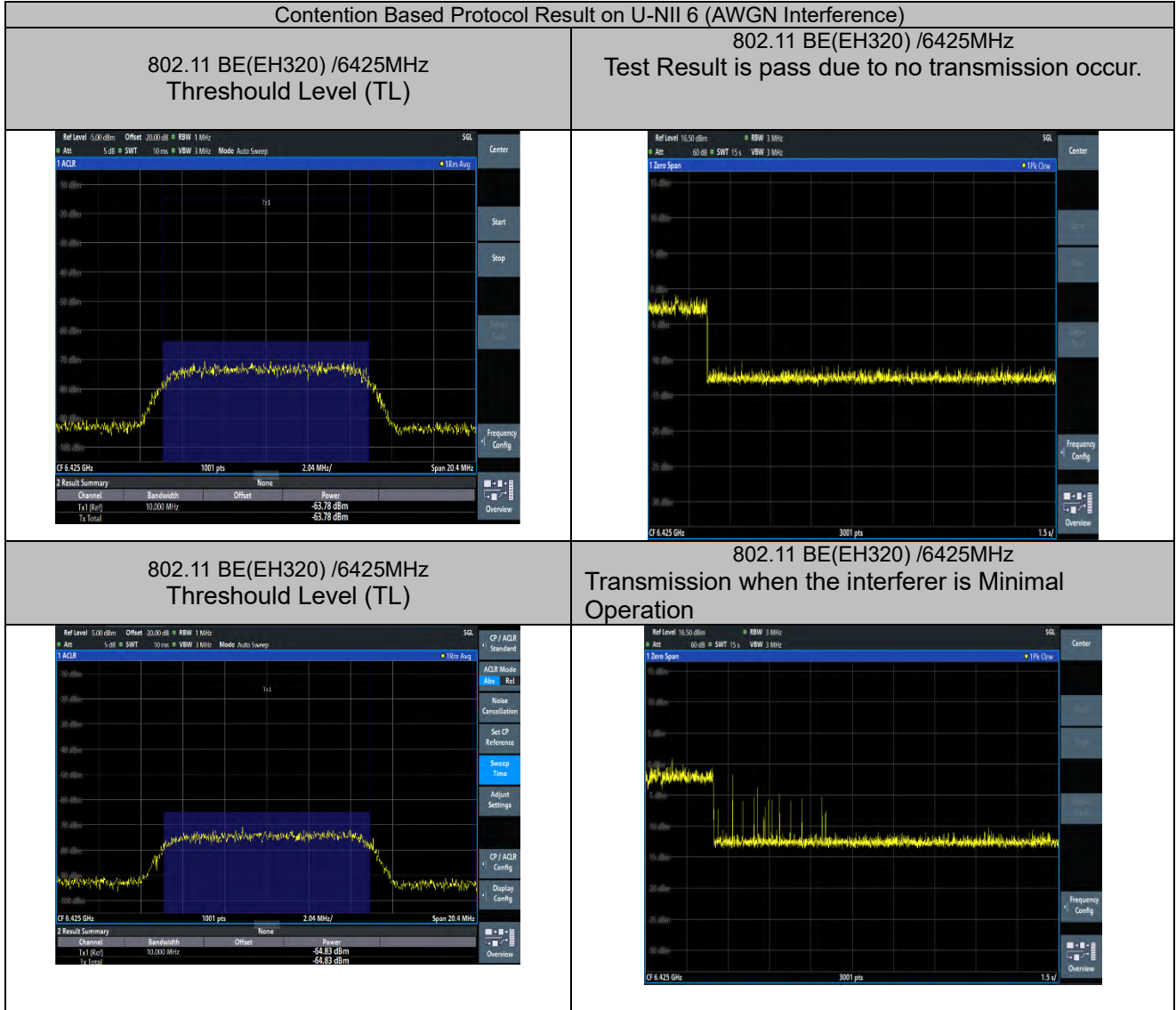


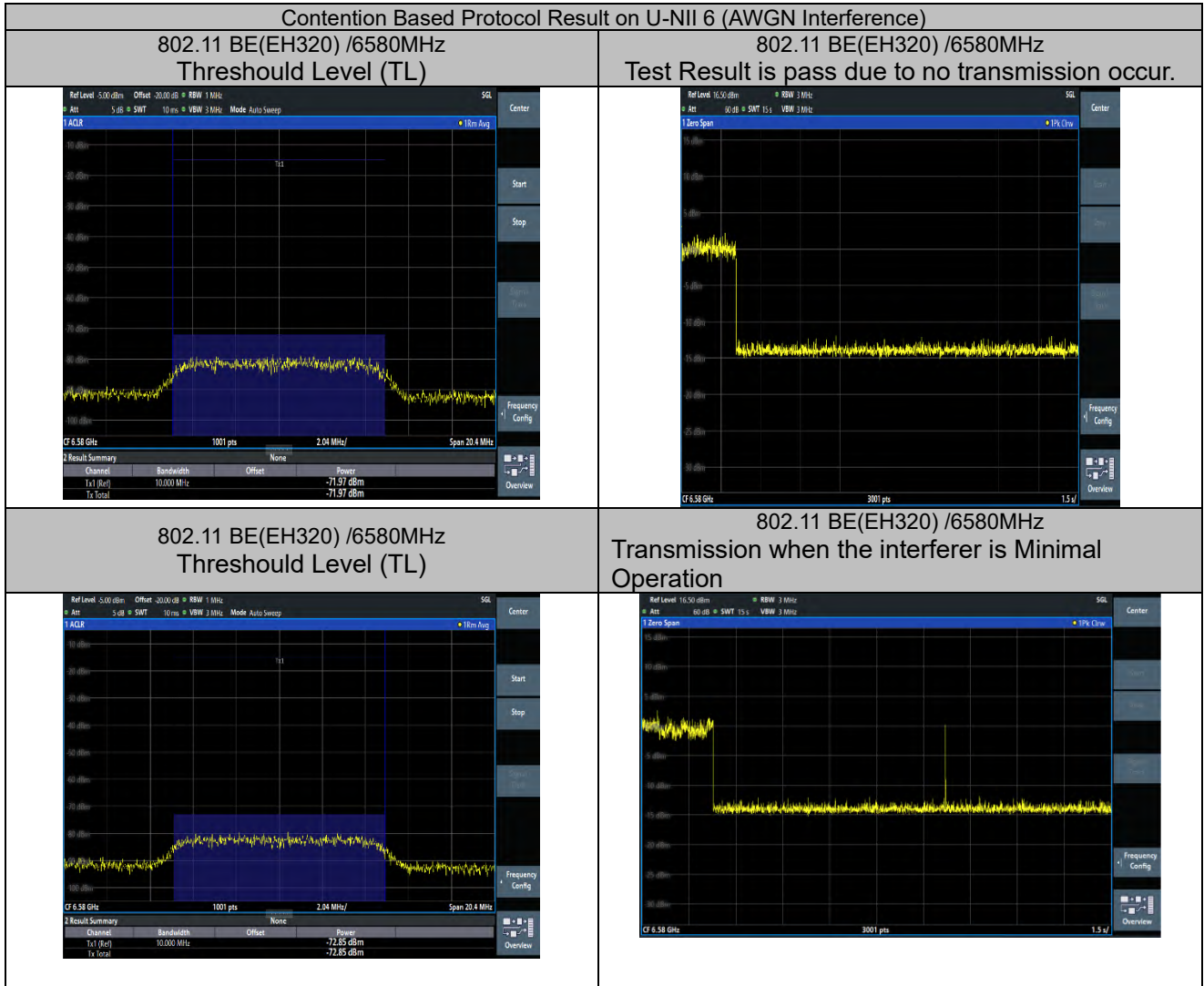


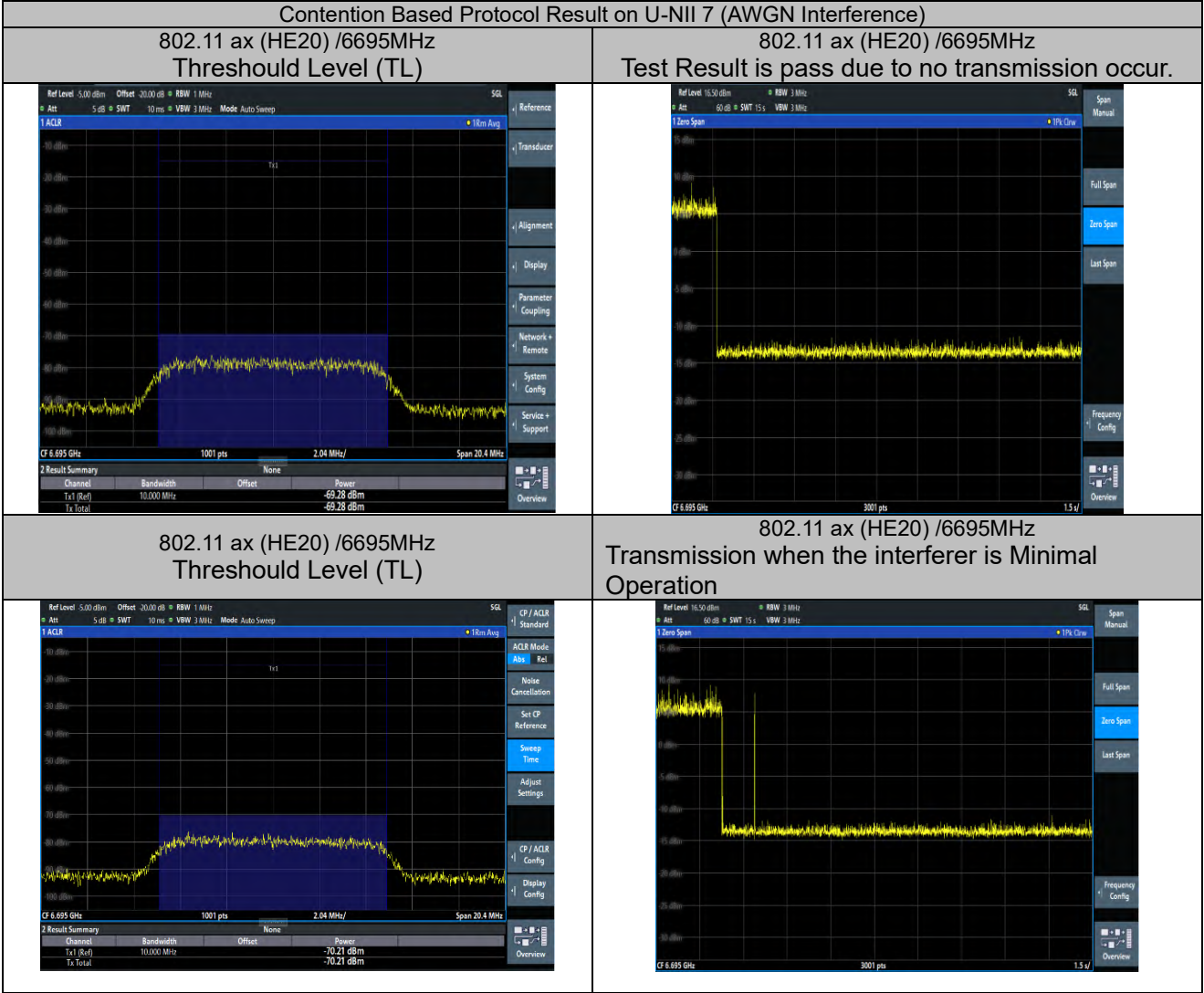
Contention Based Protocol Result on U-NII 5 (AWGN Interference)	
802.11 BE(EH320) /6420MHz Threshold Level (TL) 	802.11 BE(EH320) /6420MHz Test Result is pass due to no transmission occur. 
802.11 BE(EH320) /6420MHz Threshold Level (TL) 	802.11 BE(EH320) /6420MHz Transmission when the interferer is Minimal Operation 

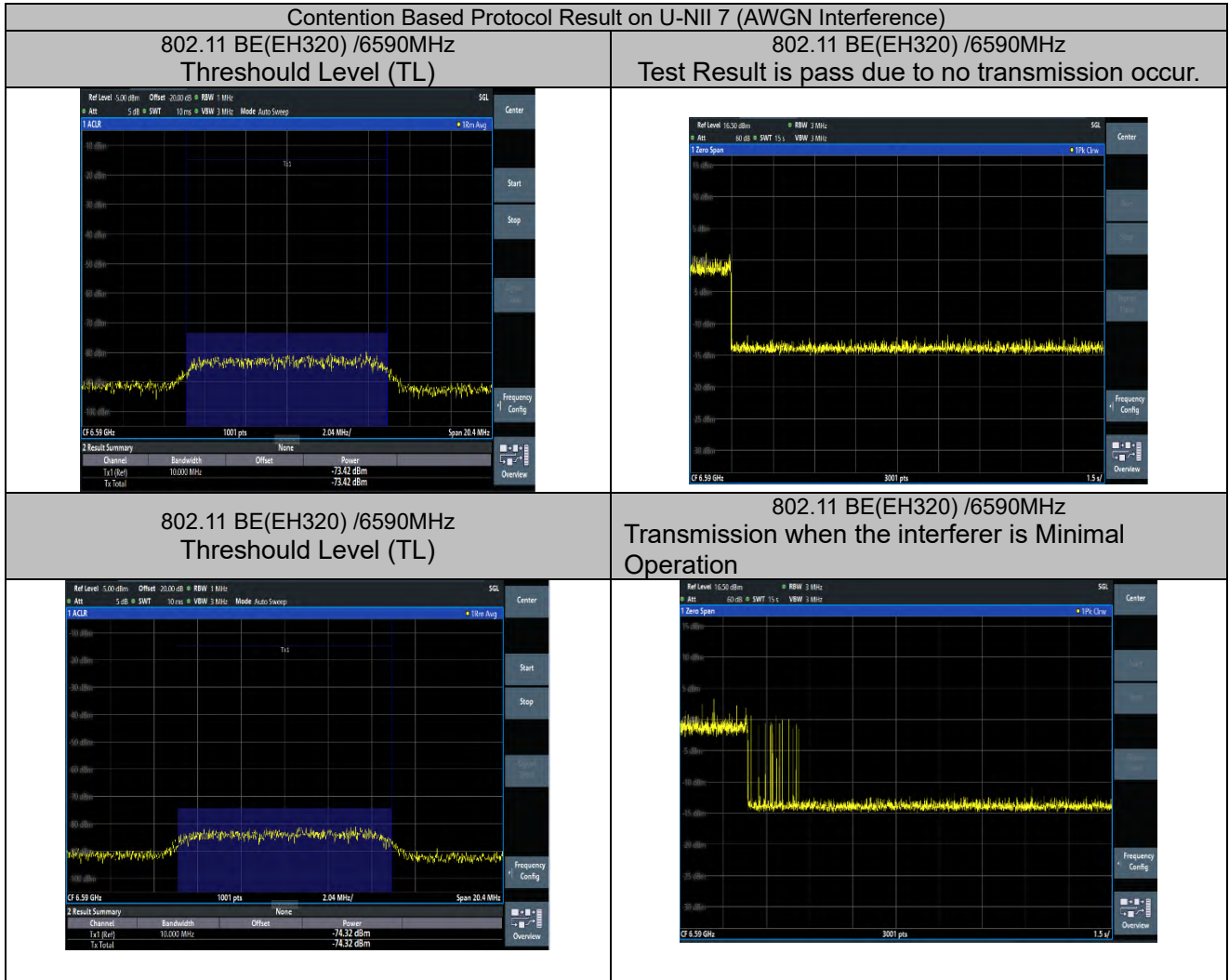


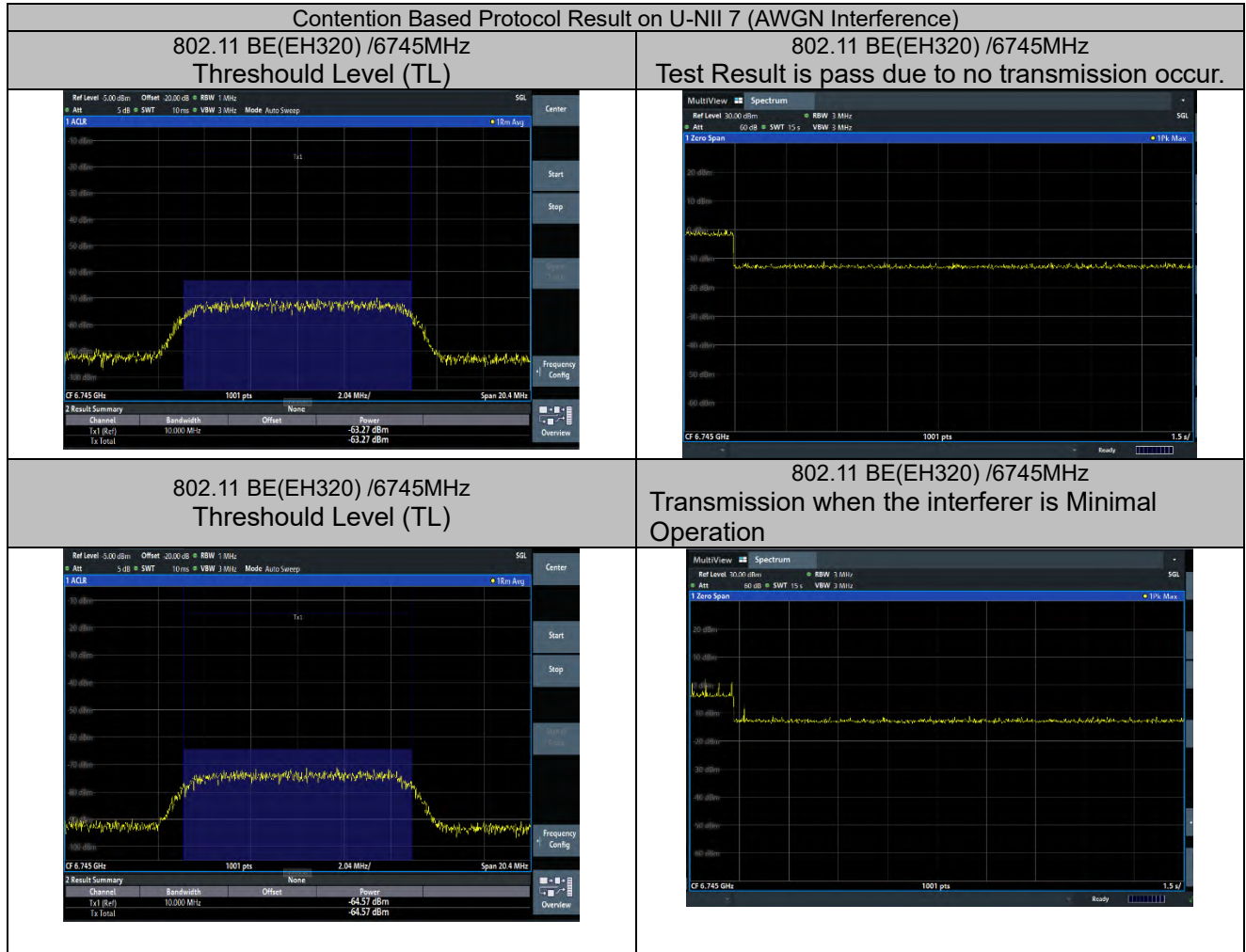


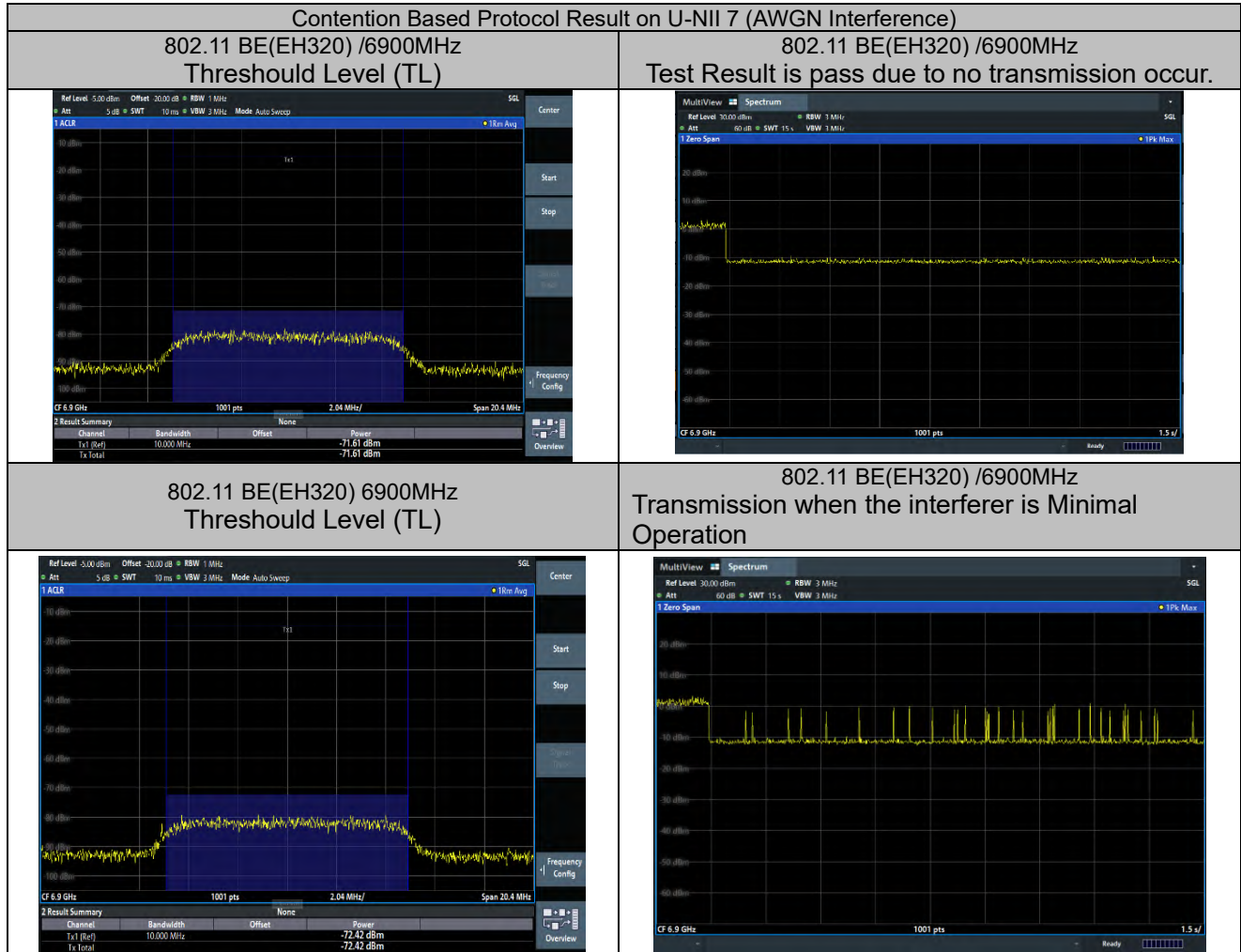


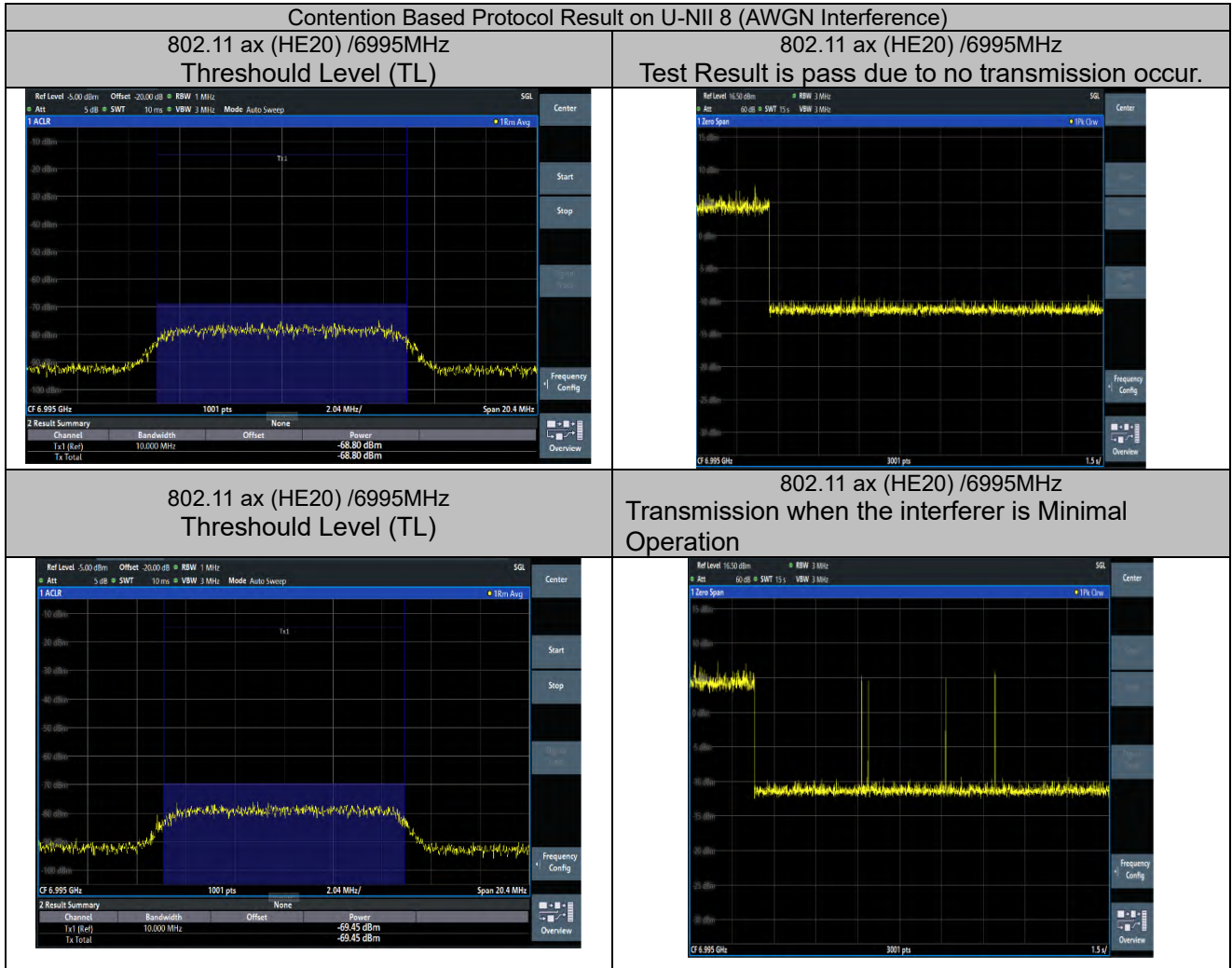


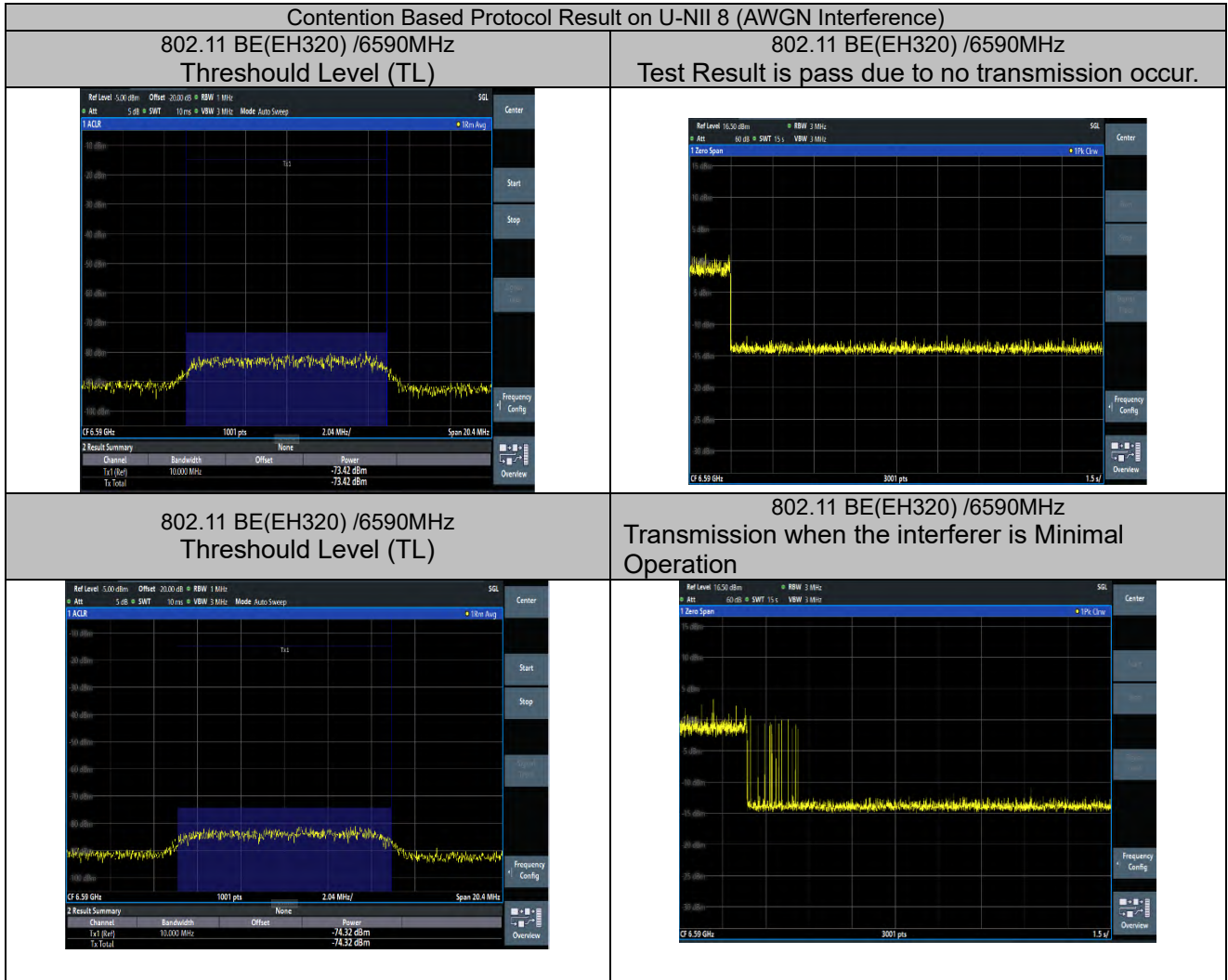


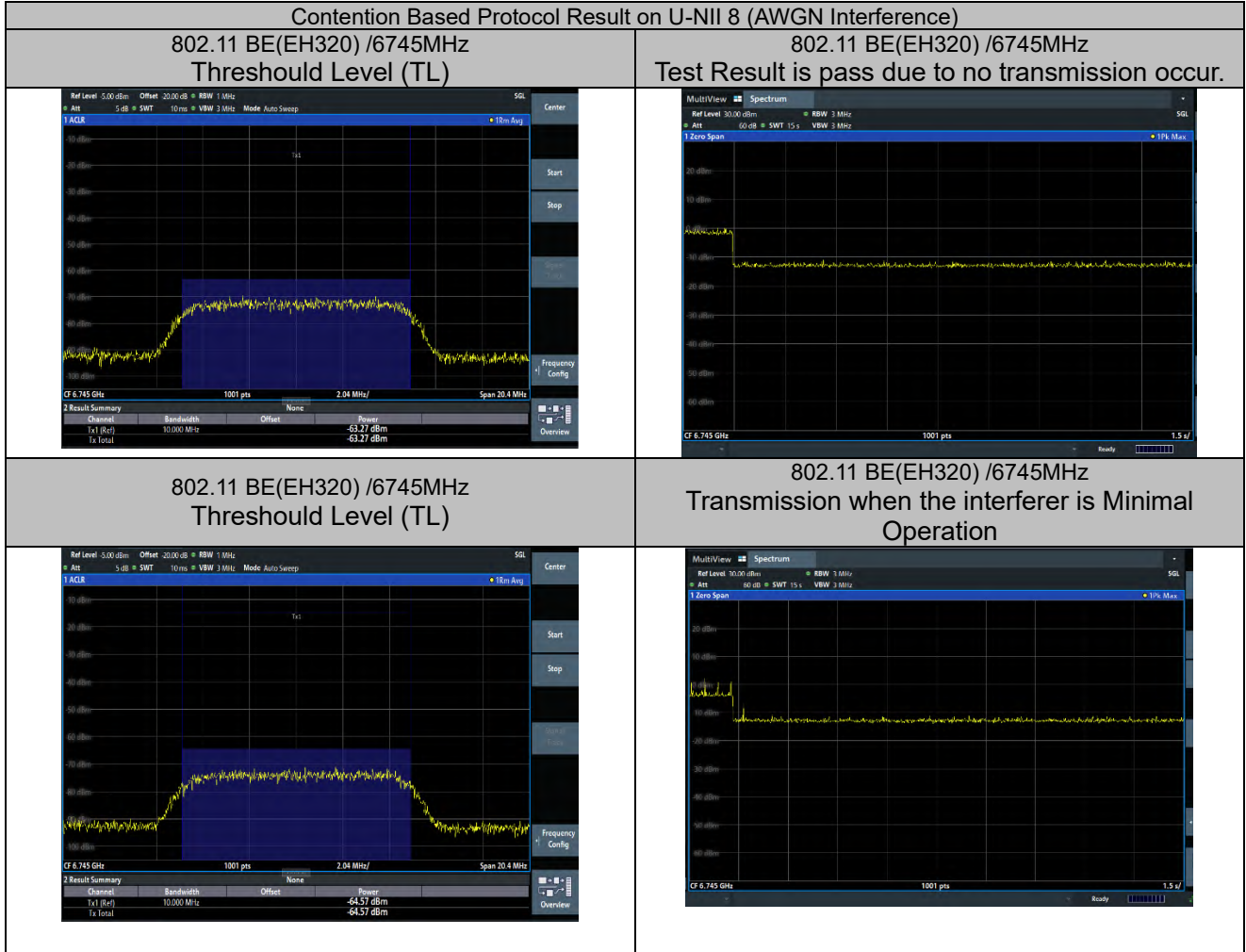


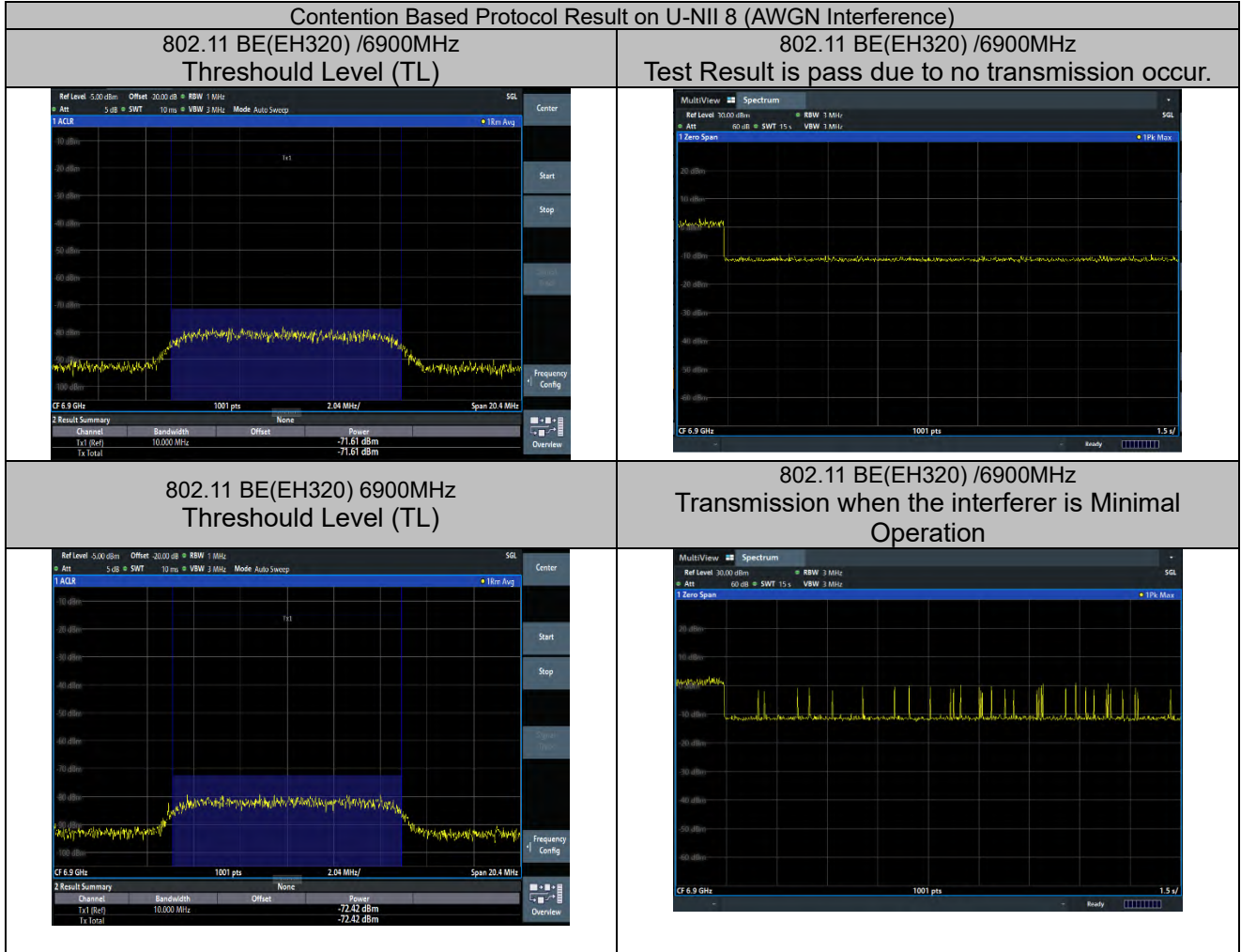










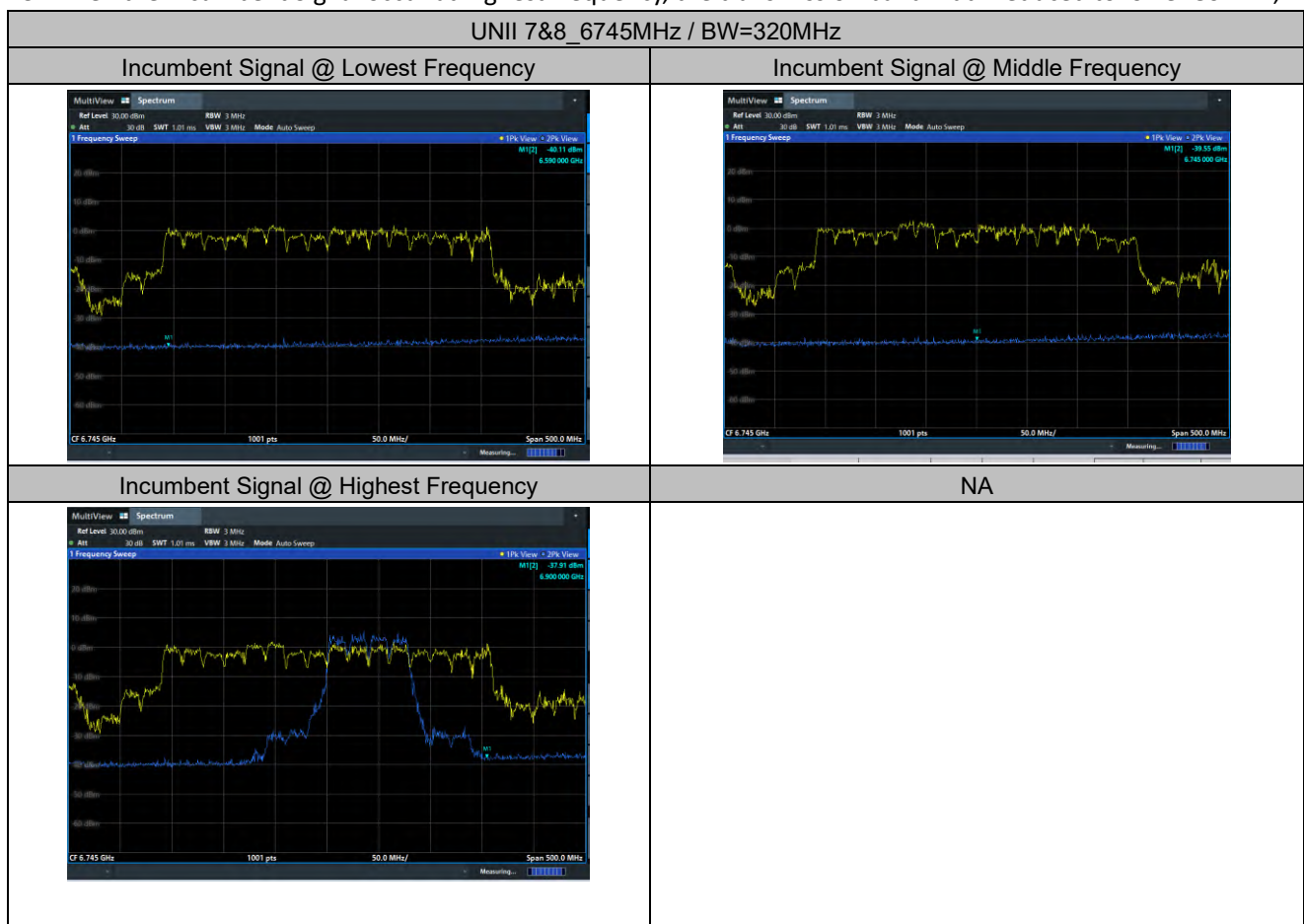


Verify Contention Based Protocol Transmission Bandwidth Reduction

802.11ax does not support channel puncturing in CBP mode, only channel bandwidth reduction is applied.

The yellow trace show the full 320MHz transmission prior to AWGN injection, the blue trace show the transmission spectrum after AWGN injection:

1. When the Incumbent Signal occur at lowest frequency, the total 320M bandwidth stop transmission;
2. When the Incumbent Signal occur at middle frequency, the total 320M bandwidth stop transmission;
3. When the Incumbent Signal occur at highest frequency, the transmission bandwidth reduced to lower 80MHz;



- End of the Report -