

For 802.11a & 802.11ax

1. Duty Cycle

1.1 Test Result

1.1.1 Ant0

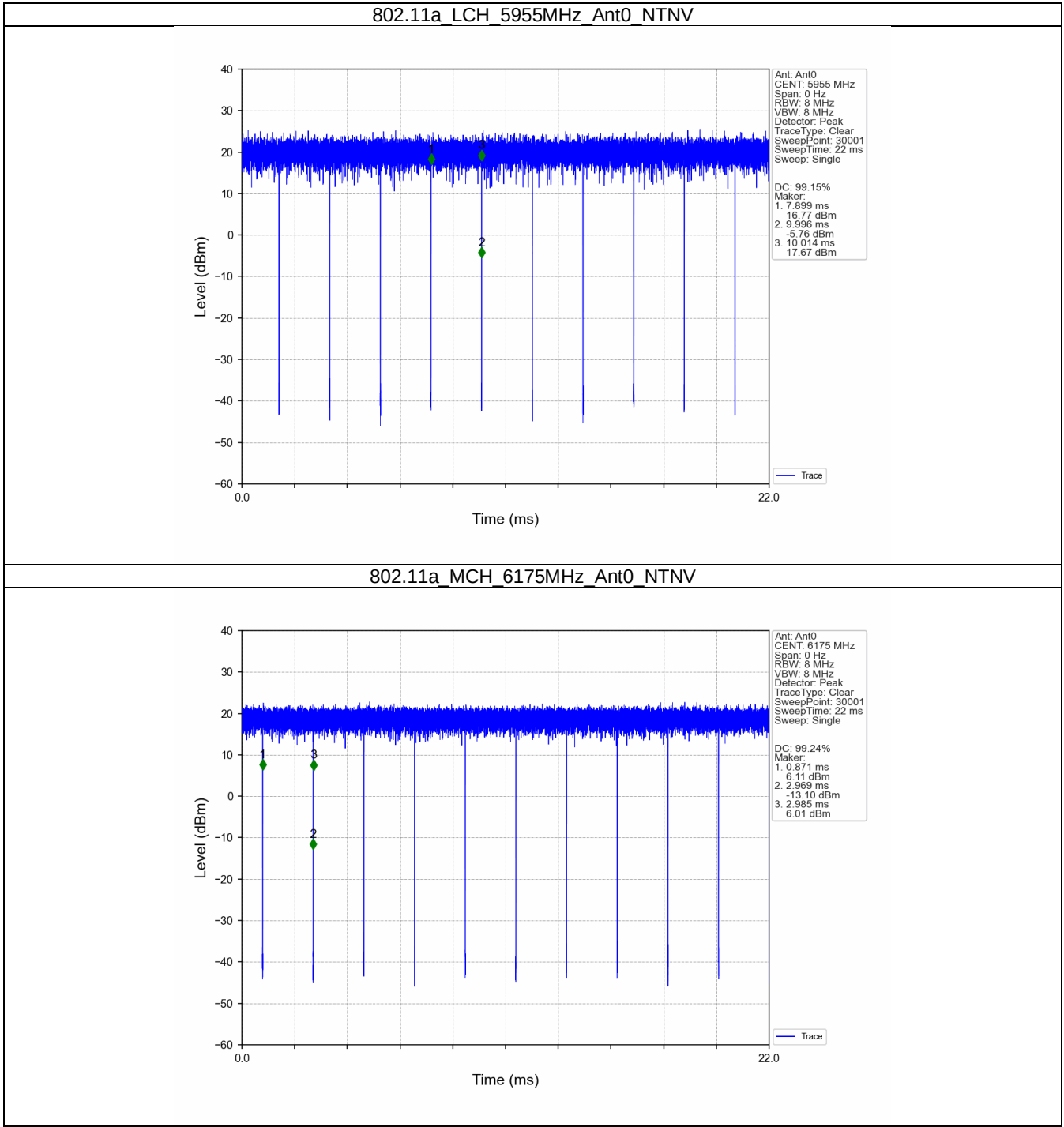
Ant0										
ENV	Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11a	MIMO	5955	/	/	2.097	2.115	99.15	0.04	0.07
			6175	/	/	2.098	2.114	99.24	0.03	0.00
			6415	/	/	2.098	2.115	99.20	0.04	0.00
	802.11ax (HEW20)	MIMO	5955	RU242	Left	5.445	5.464	99.65	0.02	0.03
			6175	RU242	Left	5.446	5.464	99.67	0.01	0.04
			6415	RU242	Left	5.446	5.464	99.67	0.01	0.04
	802.11ax (HEW40)	MIMO	5965	RU484	Left	5.445	5.462	99.69	0.01	0.00
			6165	RU484	Left	5.444	5.462	99.67	0.01	0.04
			6405	RU484	Left	5.444	5.462	99.67	0.01	0.04
	802.11ax (HEW80)	MIMO	5985	RU996	Left	5.446	5.464	99.67	0.01	0.04
			6145	RU996	Left	5.446	5.464	99.67	0.01	0.04
			6385	RU996	Left	5.446	5.464	99.67	0.01	0.04
	802.11ax (HEW160)	MIMO	6025	2xRU996	Left	5.444	5.462	99.67	0.01	0.04
			6185	2xRU996	Left	5.445	5.464	99.65	0.02	0.03
			6345	2xRU996	Left	5.445	5.464	99.65	0.02	0.03

1.1.2 Ant0

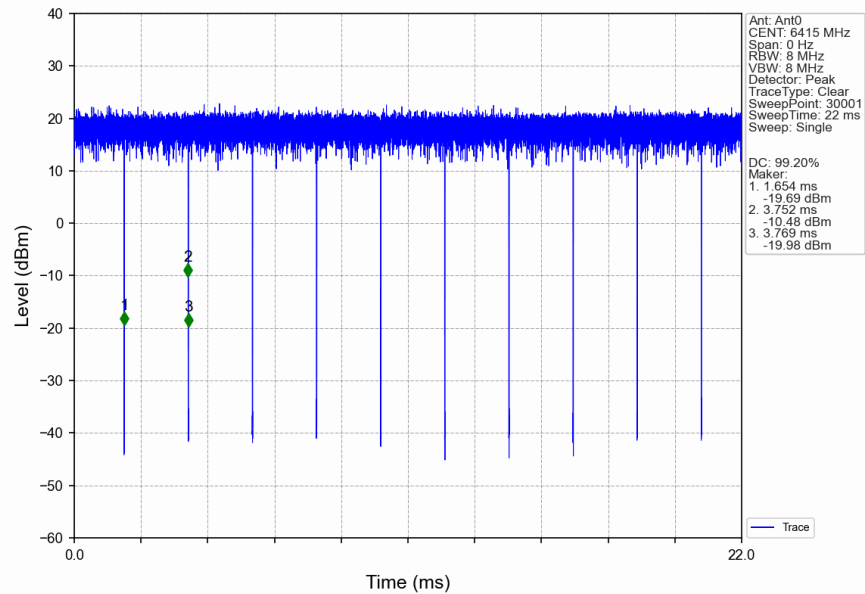
Ant0										
ENV	Mode	Tx Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11a	MIMO	6535	/	/	2.096	2.114	99.15	0.04	0.07
			6695	/	/	2.097	2.114	99.20	0.04	0.03
			6855	/	/	2.097	2.114	99.20	0.04	0.00
	802.11ax (HEW20)	MIMO	6535	RU242	Left	5.446	5.464	99.67	0.01	0.04
			6695	RU242	Left	5.453	5.653	96.46	0.16	3.47
			6855	RU242	Left	5.446	5.464	99.67	0.01	0.04
	802.11ax (HEW40)	MIMO	6565	RU484	Left	5.445	5.462	99.69	0.01	0.03
			6685	RU484	Left	5.444	5.462	99.67	0.01	0.04
			6845	RU484	Left	5.444	5.462	99.67	0.01	0.04
	802.11ax (HEW80)	MIMO	6625	RU996	Left	5.446	5.464	99.67	0.01	0.04
			6705	RU996	Left	5.446	5.462	99.71	0.01	0.00
			6785	RU996	Left	5.446	5.464	99.67	0.01	0.04
	802.11ax (HEW160)	MIMO	6665	2xRU996	Left	5.444	5.462	99.67	0.01	0.04

1.2 Test Graph

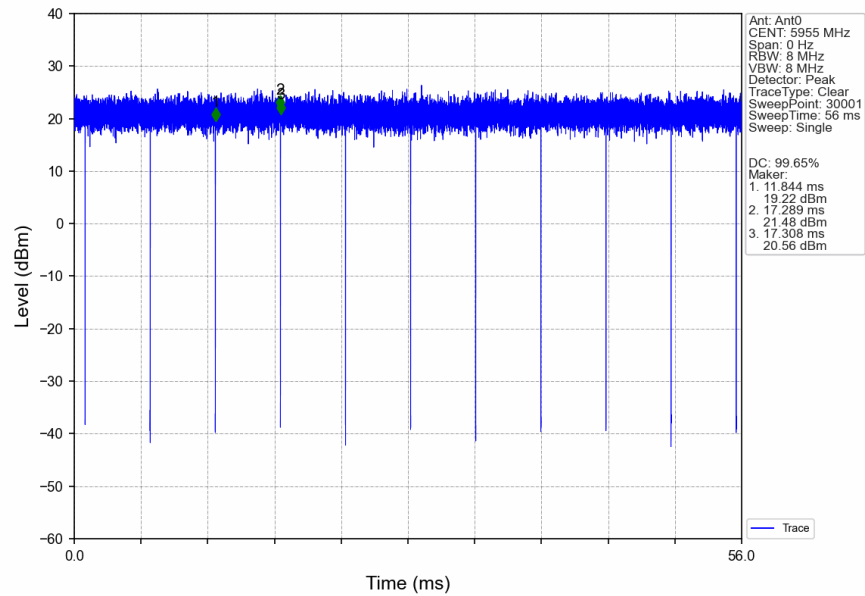
1.2.1 Ant0



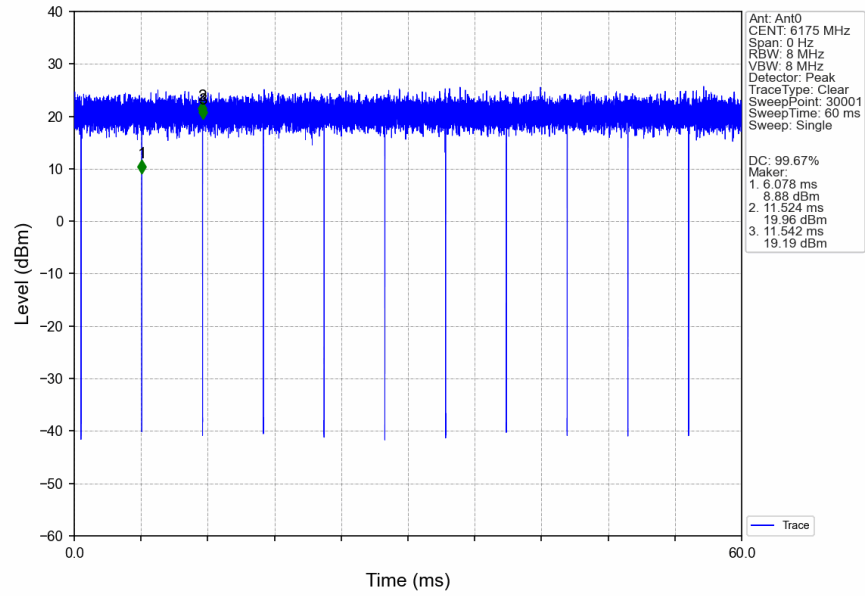
802.11a HCH 6415MHz Ant0 NTN



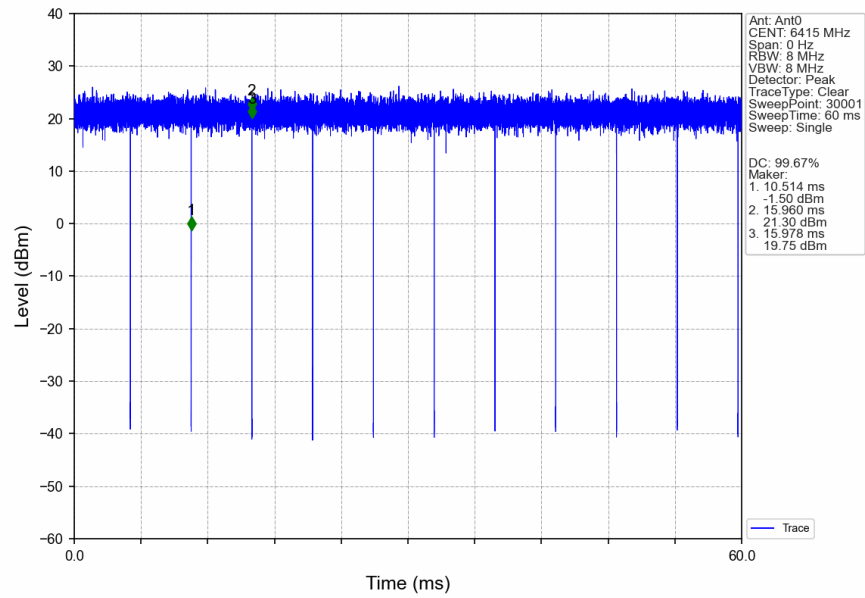
802.11ax(HEW20)_LCH_5955MHz_RU242_Left_Ant0 NTN



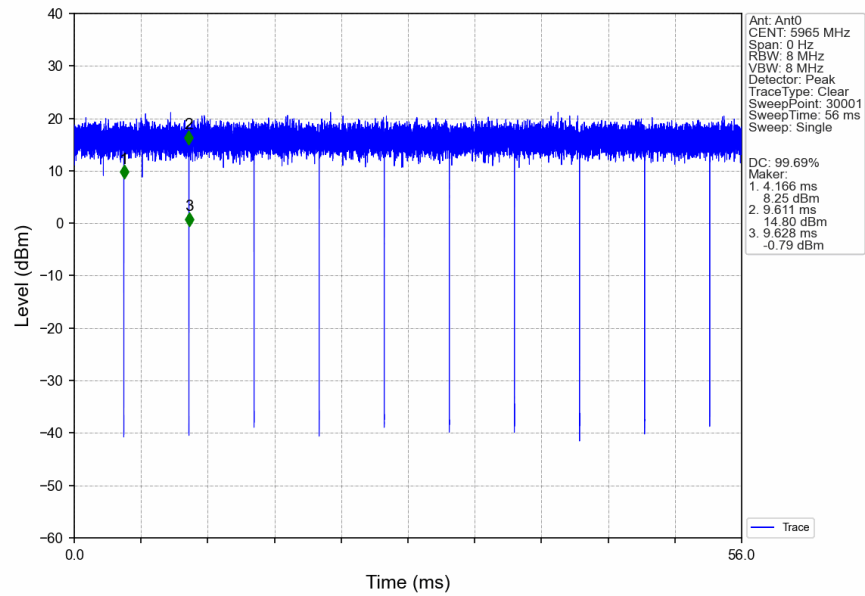
802.11ax(HEW20) MCH 6175MHz RU242 Left Ant0 NTN



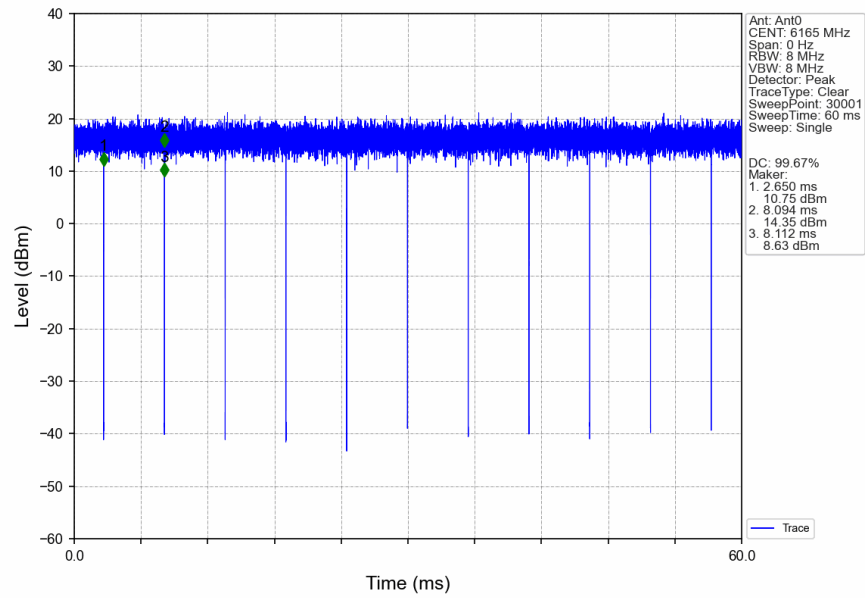
802.11ax(HEW20) HCH 6415MHz RU242 Left Ant0 NTN



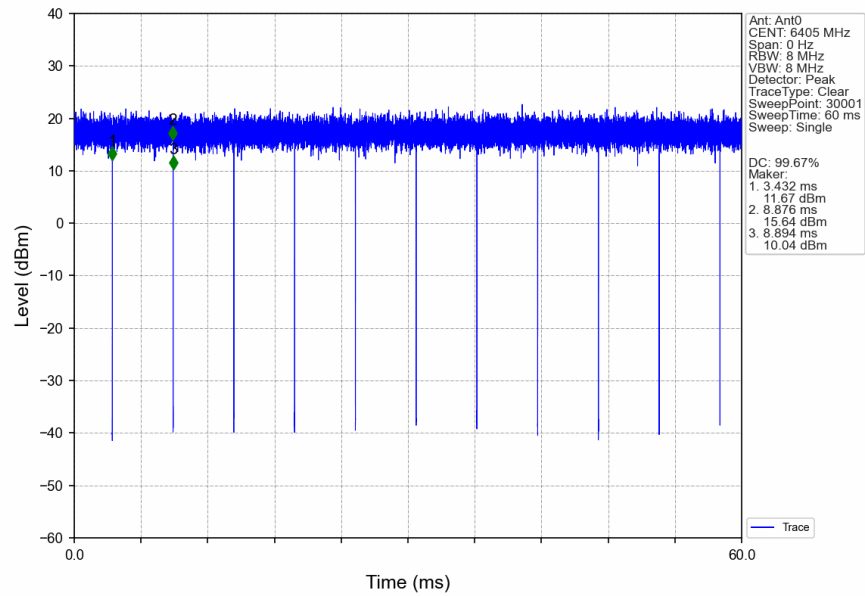
802.11ax(HEW40) LCH 5965MHz RU484 Left Ant0 NTN



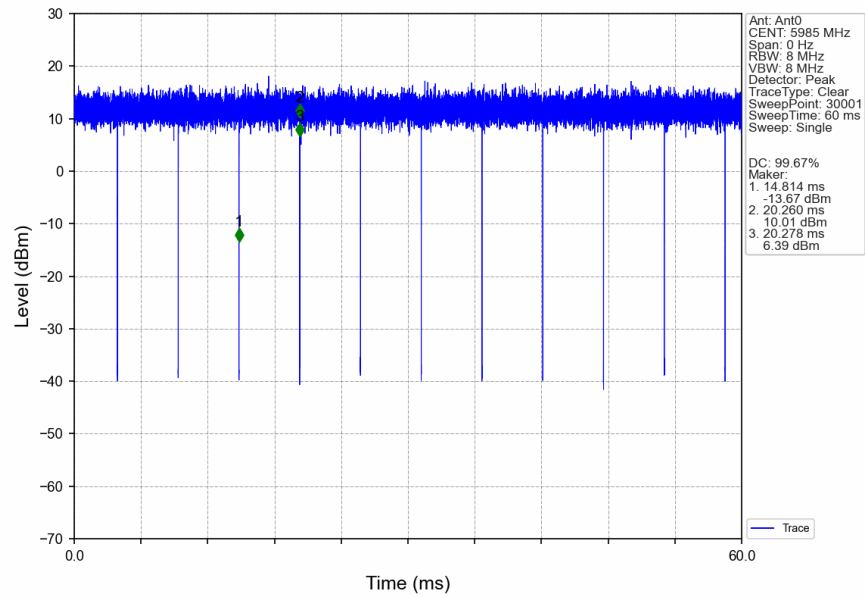
802.11ax(HEW40) MCH 6165MHz RU484 Left Ant0 NTN



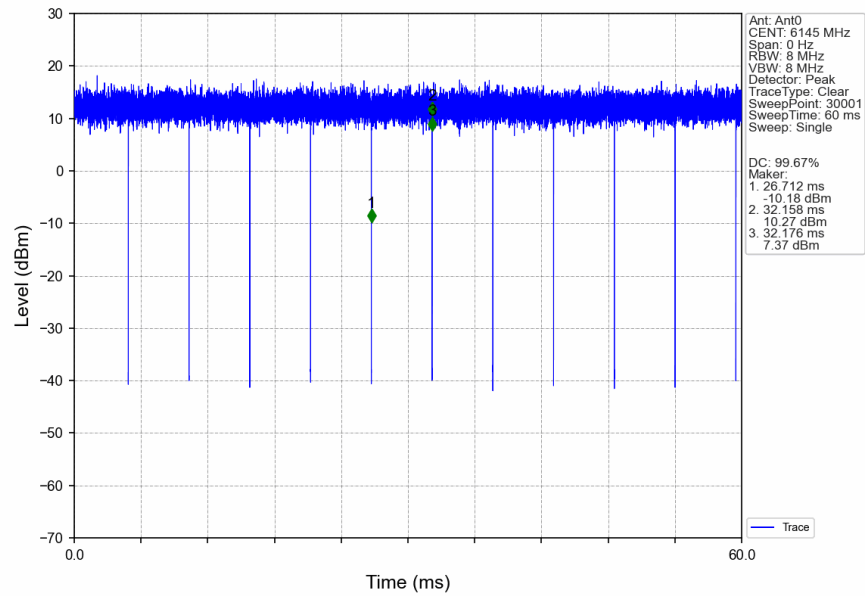
802.11ax(HEW40) HCH 6405MHz RU484 Left Ant0 NTN



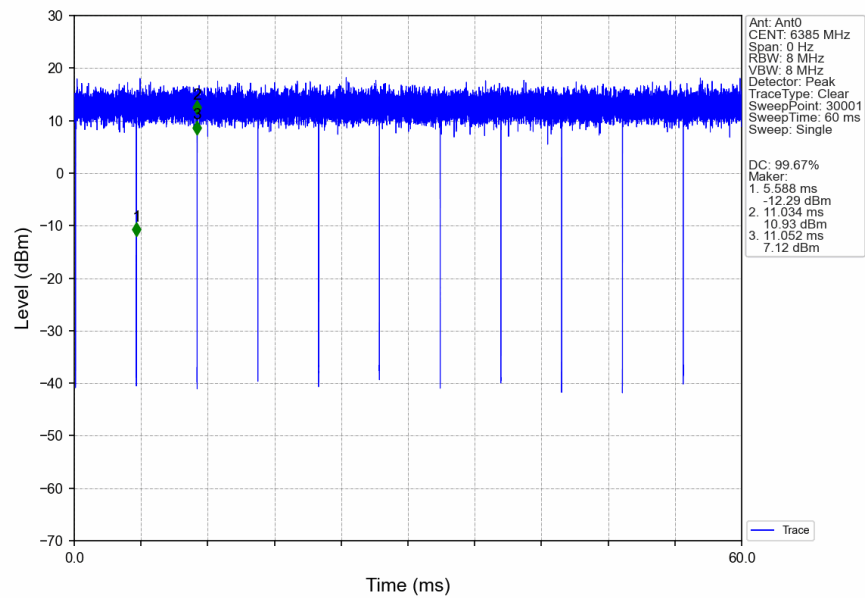
802.11ax(HEW80) LCH 5985MHz RU996 Left Ant0 NTN



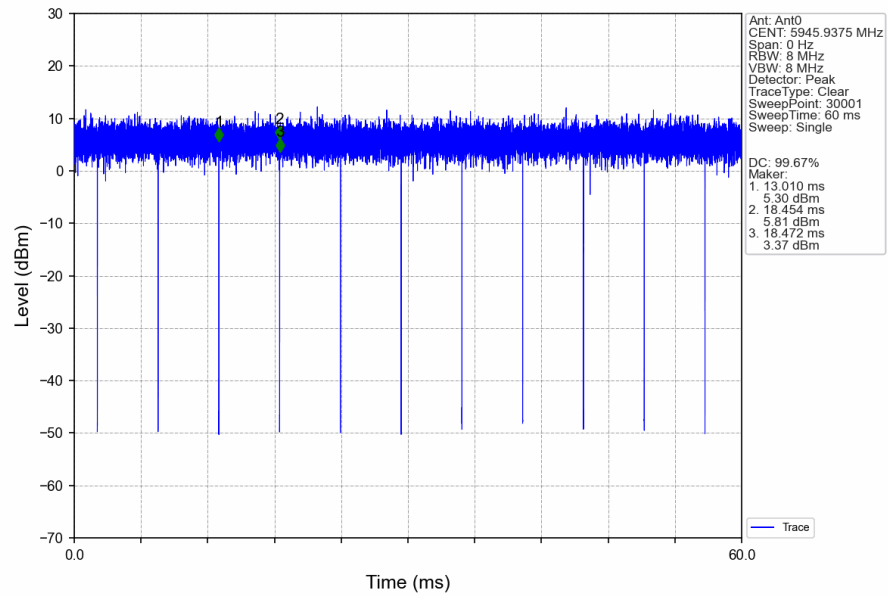
802.11ax(HEW80) MCH 6145MHz RU996 Left Ant0 NTN



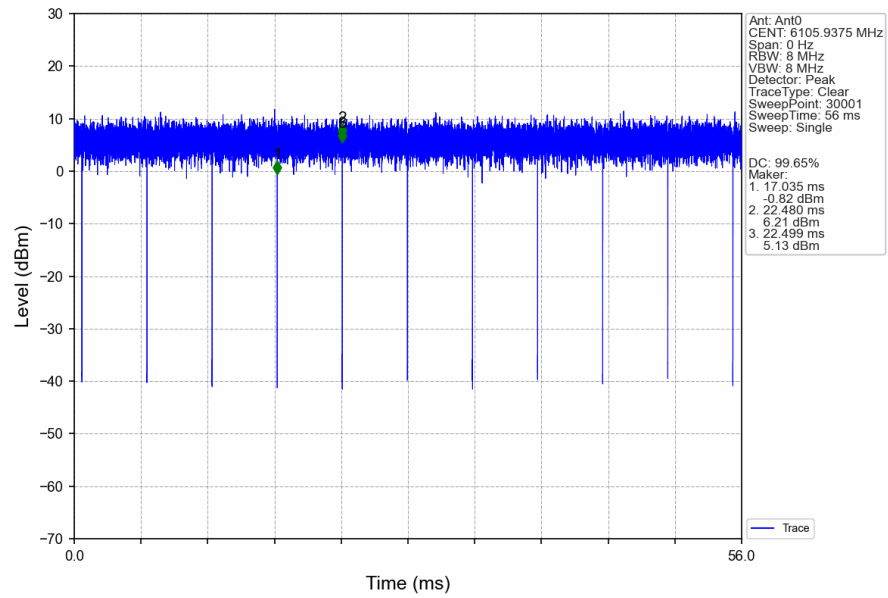
802.11ax(HEW80) HCH 6385MHz RU996 Left Ant0 NTN



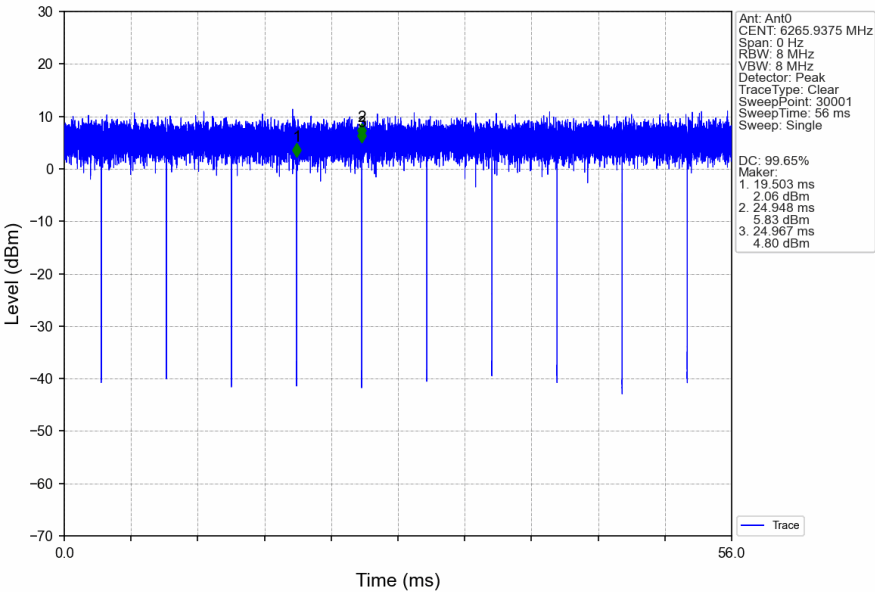
802.11ax(HEW160) LCH 6025MHz 2xRU996 Left Ant0 NTN



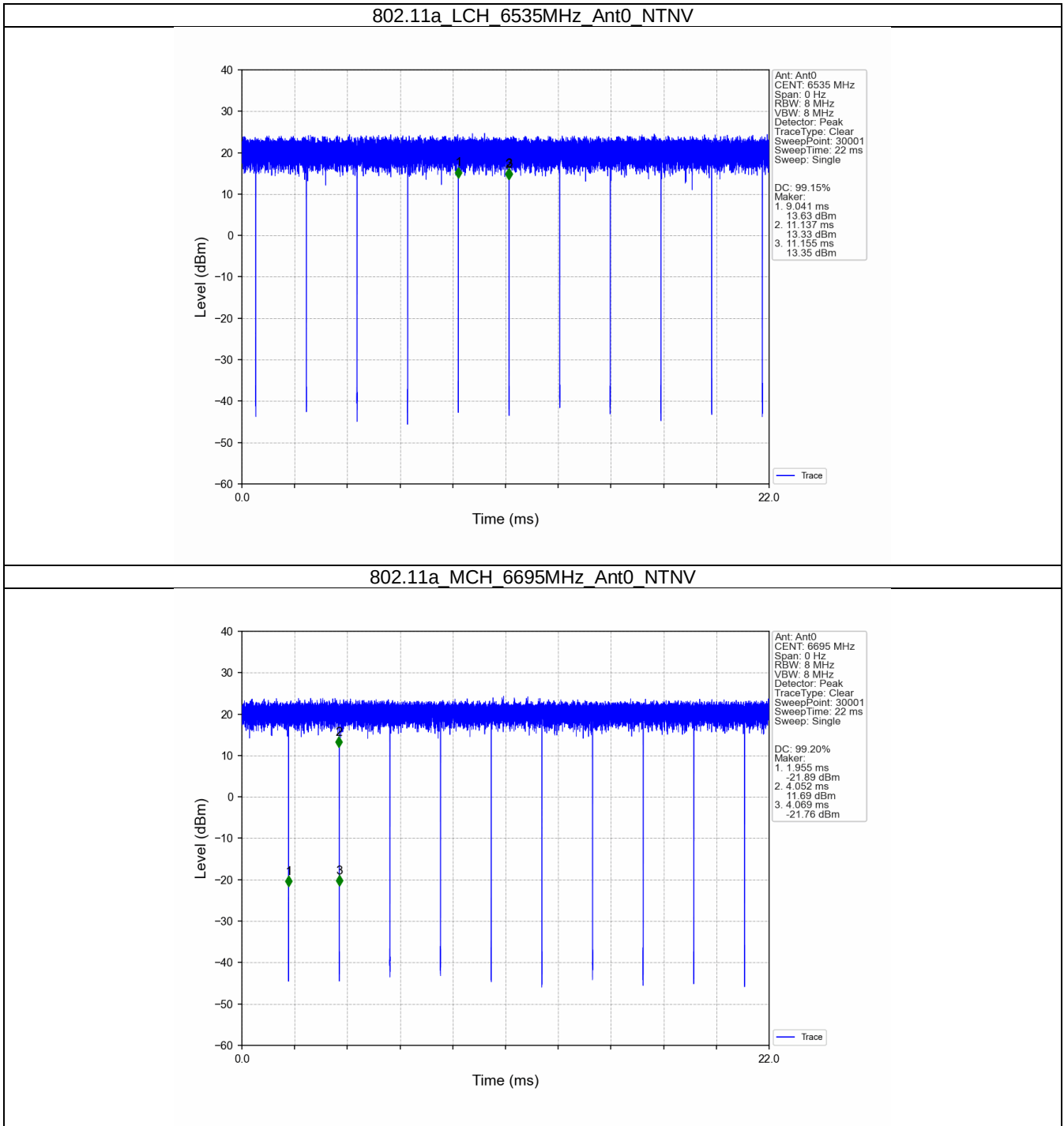
802.11ax(HEW160) MCH 6185MHz 2xRU996 Left Ant0 NTN



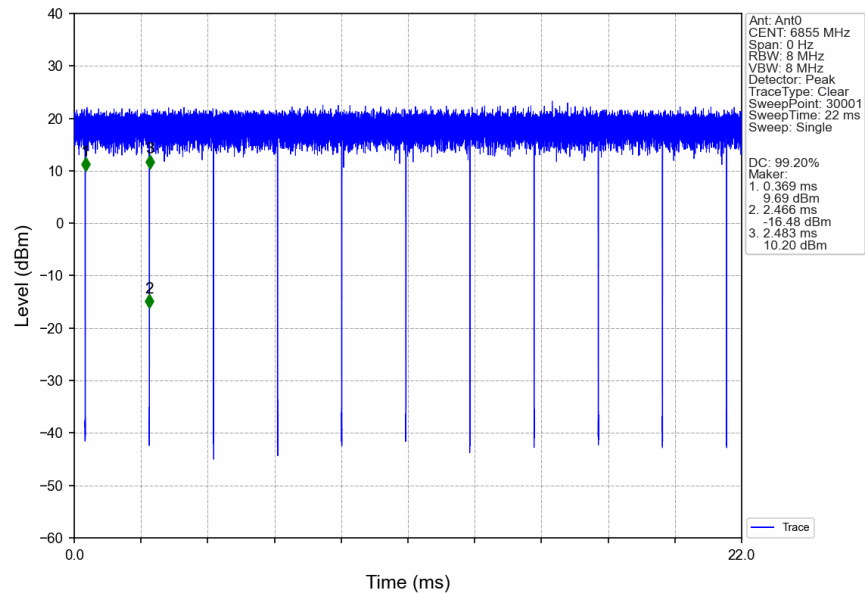
802.11ax(HEW160) HCH 6345MHz 2xRU996 Left Ant0 NTN



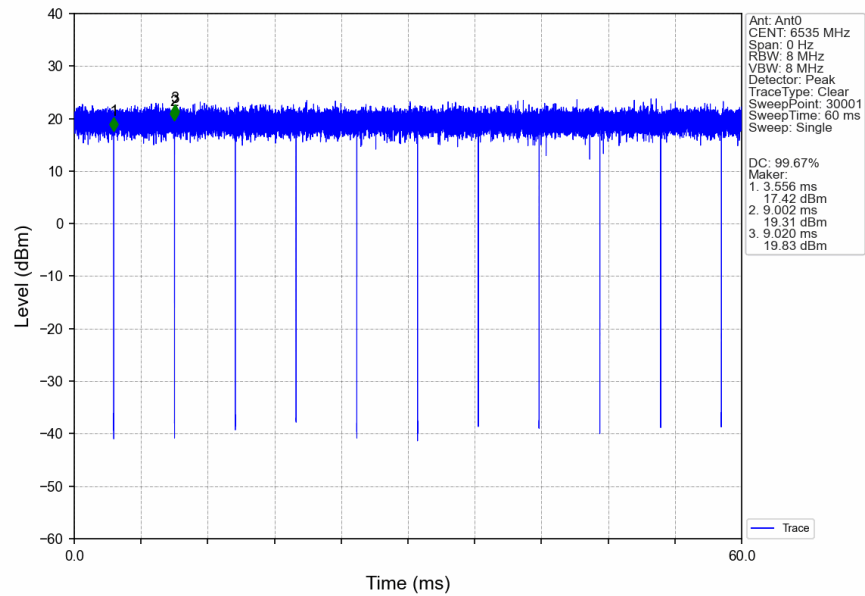
1.2.2 Ant0



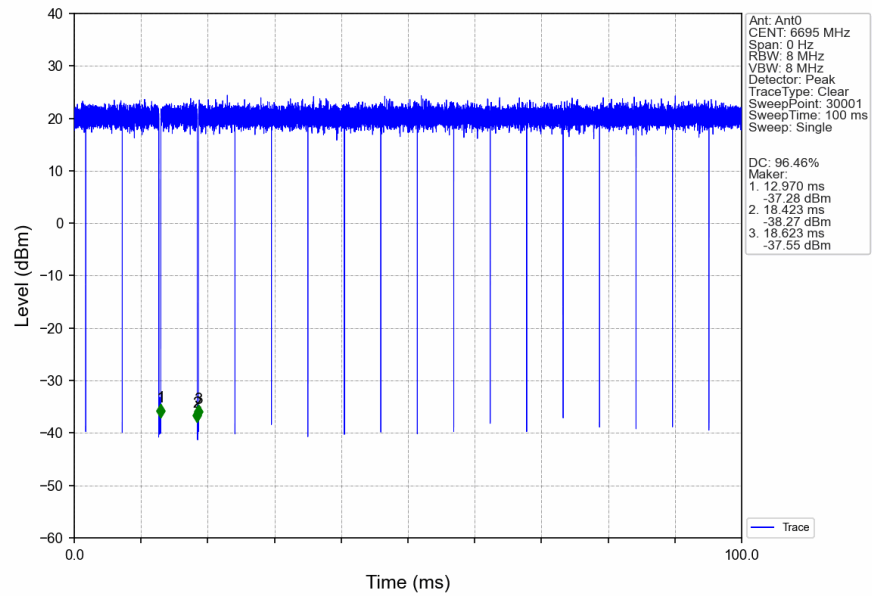
802.11a HCH 6855MHz Ant0 NTN



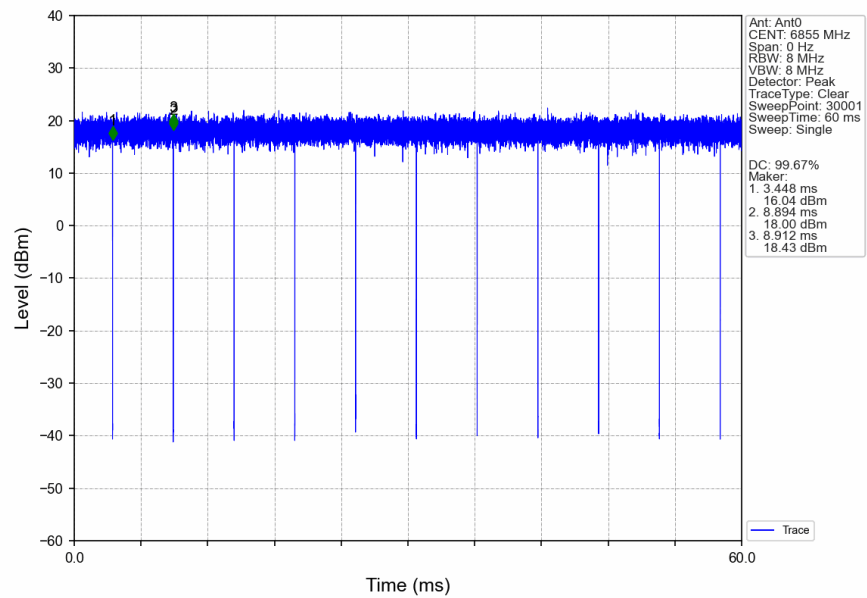
802.11ax(HEW20)_LCH_6535MHz_RU242_Left_Ant0 NTN



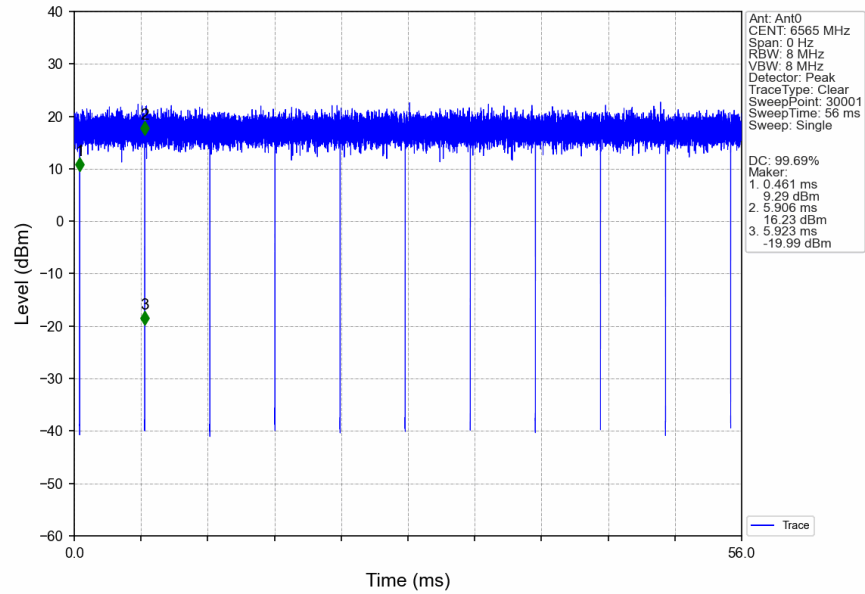
802.11ax(HEW20) MCH 6695MHz RU242 Left Ant0 NTN



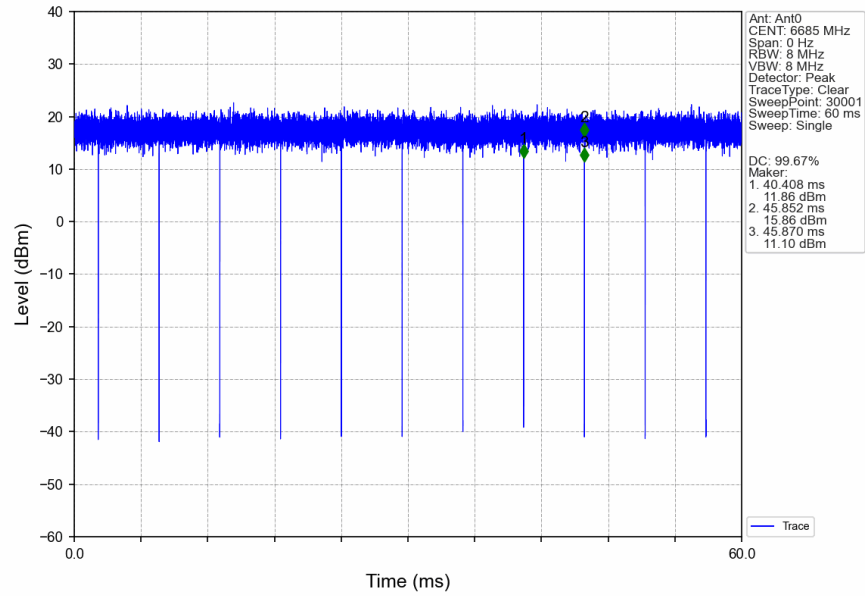
802.11ax(HEW20) HCH 6855MHz RU242 Left Ant0 NTN



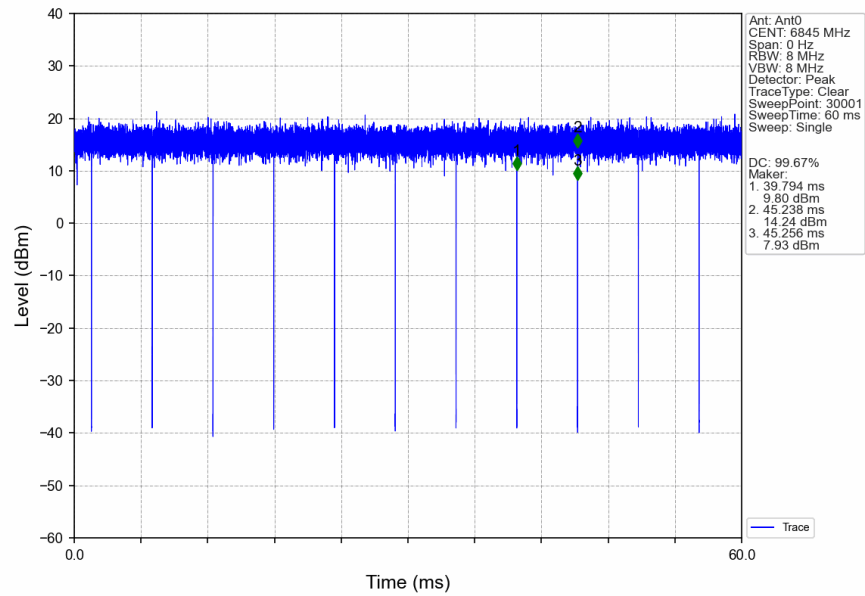
802.11ax(HEW40) LCH 6565MHz RU484 Left Ant0 NTN



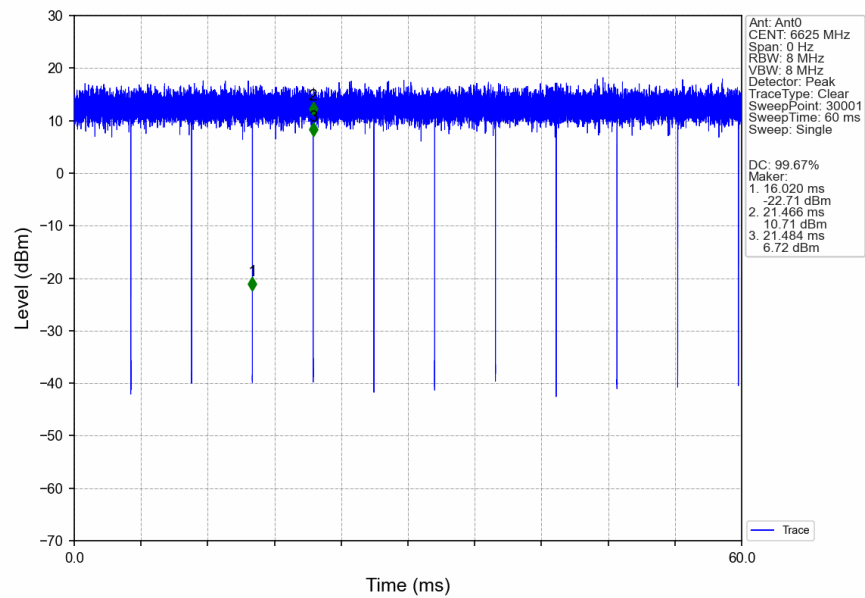
802.11ax(HEW40) MCH 6685MHz RU484 Left Ant0 NTN



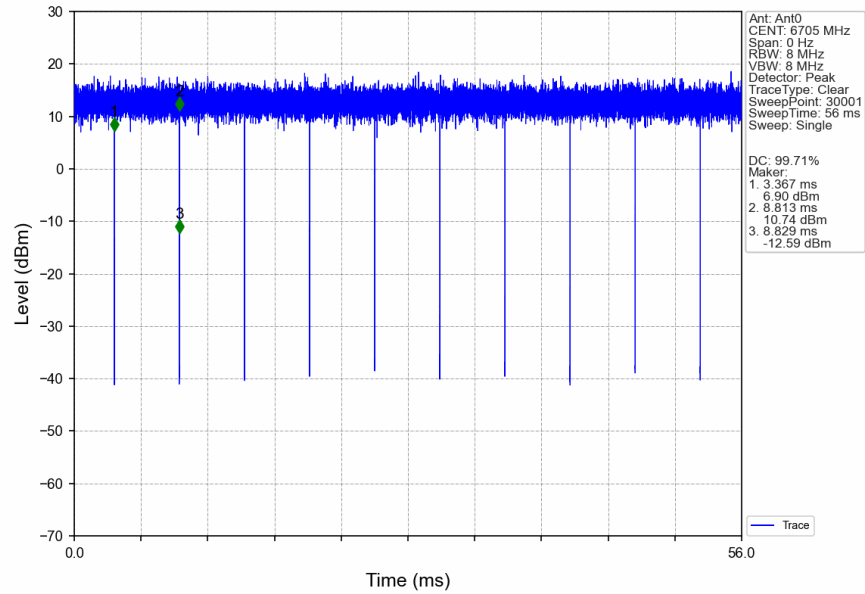
802.11ax(HEW40) HCH 6845MHz RU484 Left Ant0 NTN



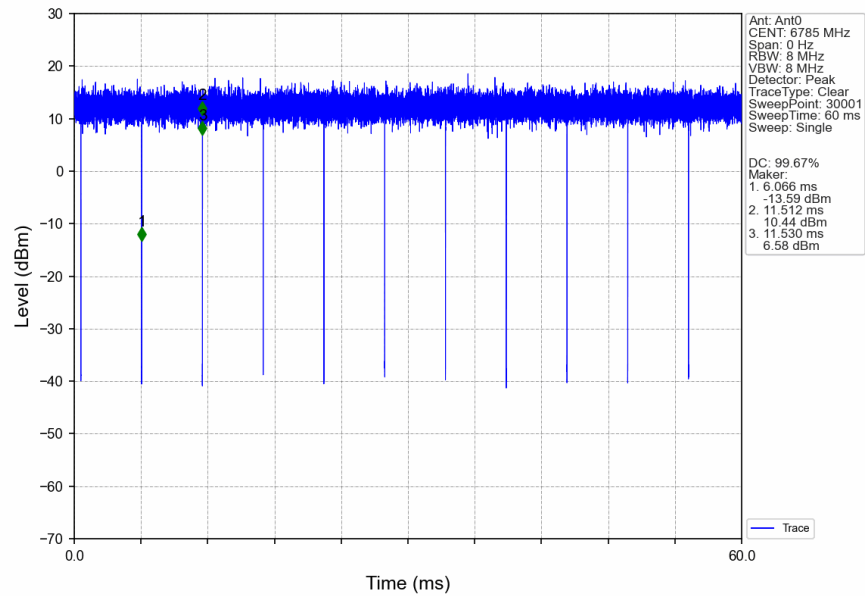
802.11ax(HEW80) LCH 6625MHz RU996 Left Ant0 NTN



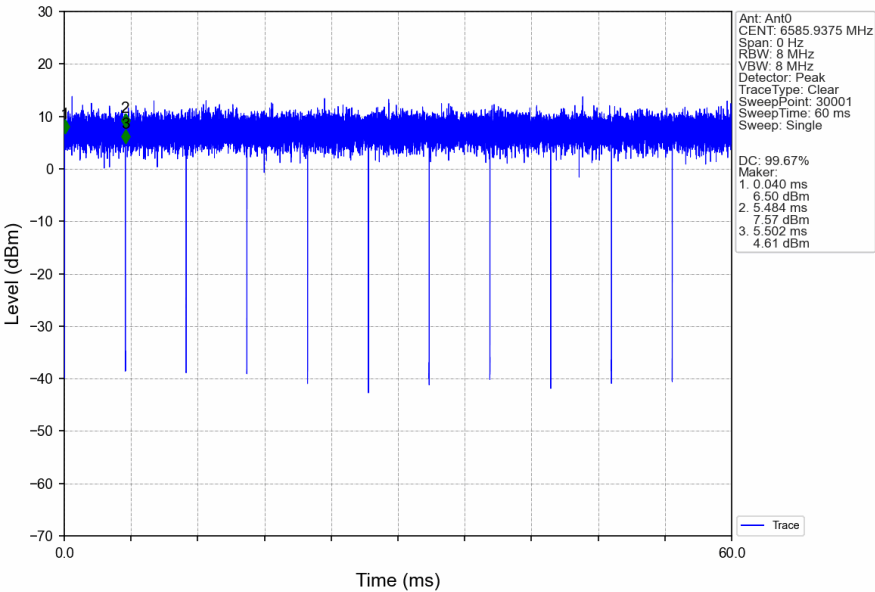
802.11ax(HEW80) MCH 6705MHz RU996 Left Ant0 NTN



802.11ax(HEW80) HCH 6785MHz RU996 Left Ant0 NTN



802.11ax(HEW160) MCH 6665MHz 2xRU996 Left Ant0 NTN



2. Bandwidth

2.1 Test Result

2.1.1 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11a	MIMO	5955	/	/	1	17.583	<=320	Pass
			6175	/	/	1	17.543	<=320	Pass
			6415	/	/	1	17.653	<=320	Pass
	802.11ax (HEW20)	MIMO	5955	RU242	Left	1	19.261	<=320	Pass
			6175	RU242	Left	1	19.253	<=320	Pass
			6415	RU242	Left	1	19.336	<=320	Pass
	802.11ax (HEW40)	MIMO	5965	RU484	Left	1	38.478	<=320	Pass
			6165	RU484	Left	1	38.159	<=320	Pass
			6405	RU484	Left	1	38.238	<=320	Pass
	802.11ax (HEW80)	MIMO	5985	RU996	Left	1	77.790	<=320	Pass
			6145	RU996	Left	1	77.844	<=320	Pass
			6385	RU996	Left	1	78.010	<=320	Pass
	802.11ax (HEW160)	MIMO	6025	2xRU996	Left	1	159.473	<=320	Pass
			6185	2xRU996	Left	1	159.747	<=320	Pass
			6345	2xRU996	Left	1	158.853	<=320	Pass

2.1.2 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11a	MIMO	5955	/	/	1	22.175	/	Pass
			6175	/	/	1	22.043	/	Pass
			6415	/	/	1	22.341	/	Pass
	802.11ax (HEW20)	MIMO	5955	RU242	Left	1	22.264	/	Pass
			6175	RU242	Left	1	22.813	/	Pass
			6415	RU242	Left	1	22.621	/	Pass
	802.11ax (HEW40)	MIMO	5965	RU484	Left	1	42.758	/	Pass
			6165	RU484	Left	1	43.798	/	Pass
			6405	RU484	Left	1	43.619	/	Pass
	802.11ax (HEW80)	MIMO	5985	RU996	Left	1	84.947	/	Pass
			6145	RU996	Left	1	86.614	/	Pass
			6385	RU996	Left	1	84.342	/	Pass
	802.11ax (HEW160)	MIMO	6025	2xRU996	Left	1	174.694	/	Pass
			6185	2xRU996	Left	1	173.433	/	Pass
			6345	2xRU996	Left	1	174.183	/	Pass

2.1.3 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11a	MIMO	6535	/	/	1	17.588	<=320	Pass
			6695	/	/	1	17.603	<=320	Pass
			6855	/	/	1	16.808	<=320	Pass
	802.11ax	MIMO	6535	RU242	Left	1	19.386	<=320	Pass

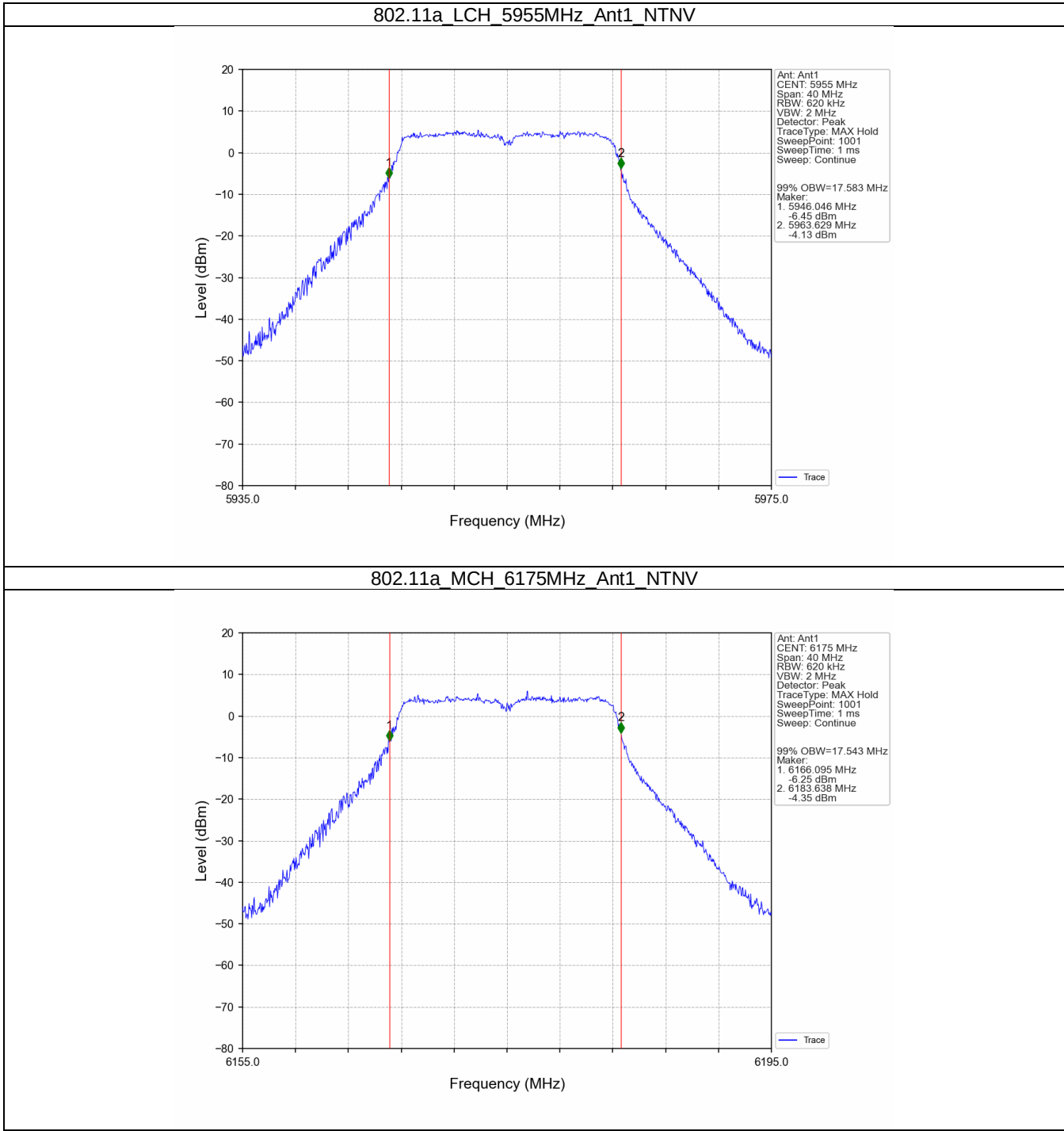
	(HEW20)		6695	RU242	Left	1	19.287	<=320	Pass
			6855	RU242	Left	1	19.197	<=320	Pass
	802.11ax (HEW40)	MIMO	6565	RU484	Left	1	38.364	<=320	Pass
			6685	RU484	Left	1	38.325	<=320	Pass
			6845	RU484	Left	1	38.358	<=320	Pass
	802.11ax (HEW80)	MIMO	6625	RU996	Left	1	77.762	<=320	Pass
			6705	RU996	Left	1	77.969	<=320	Pass
			6785	RU996	Left	1	77.736	<=320	Pass
	802.11ax (HEW160)	MIMO	6665	2xRU996	Left	1	158.726	<=320	Pass

2.1.4 26dB BW

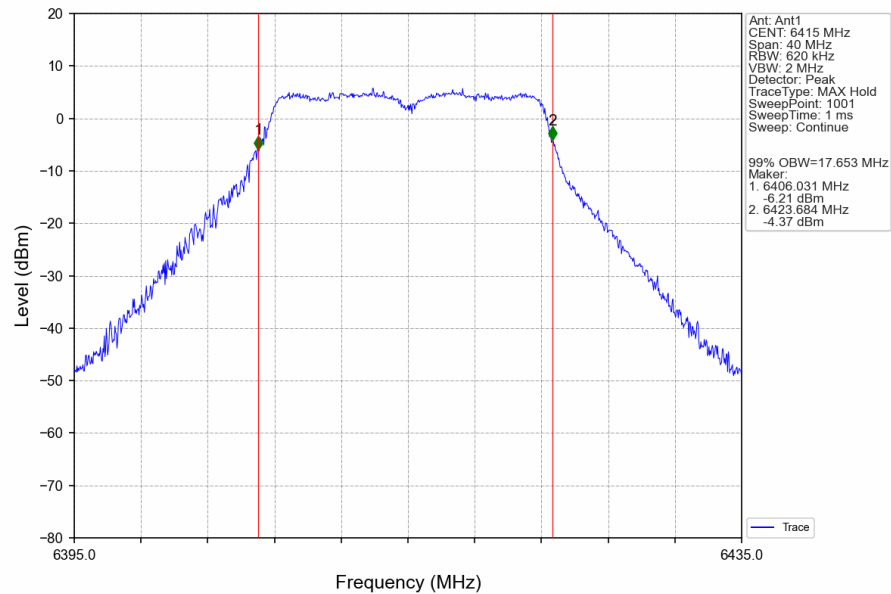
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11a	MIMO	6535	/	/	1	22.604	/	Pass
			6695	/	/	1	22.160	/	Pass
			6855	/	/	1	16.958	/	Pass
	802.11ax (HEW20)	MIMO	6535	RU242	Left	1	22.105	/	Pass
			6695	RU242	Left	1	21.899	/	Pass
			6855	RU242	Left	1	21.639	/	Pass
	802.11ax (HEW40)	MIMO	6565	RU484	Left	1	43.425	/	Pass
			6685	RU484	Left	1	43.298	/	Pass
			6845	RU484	Left	1	43.371	/	Pass
	802.11ax (HEW80)	MIMO	6625	RU996	Left	1	85.450	/	Pass
			6705	RU996	Left	1	87.031	/	Pass
			6785	RU996	Left	1	86.138	/	Pass
	802.11ax (HEW160)	MIMO	6665	2xRU996	Left	1	174.145	/	Pass

2.2 Test Graph

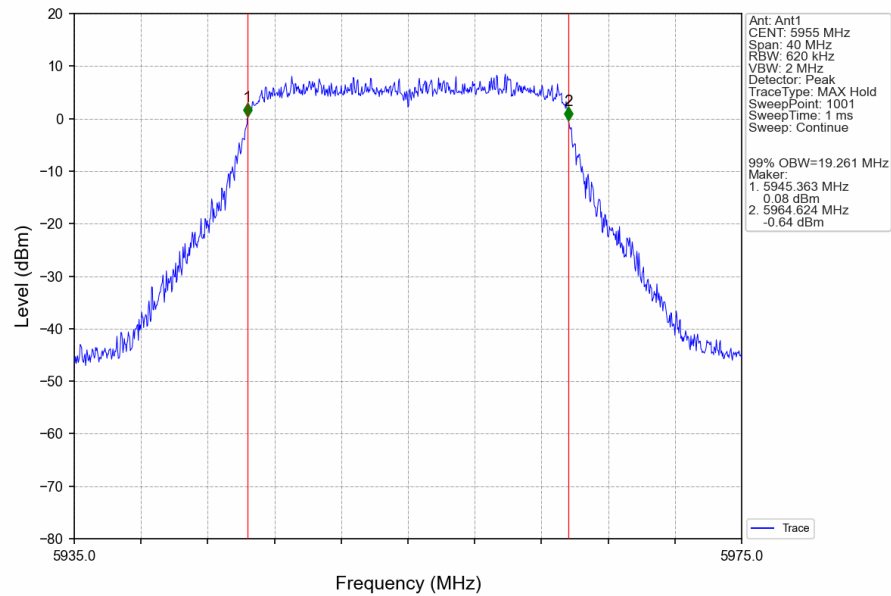
2.2.1 OBW



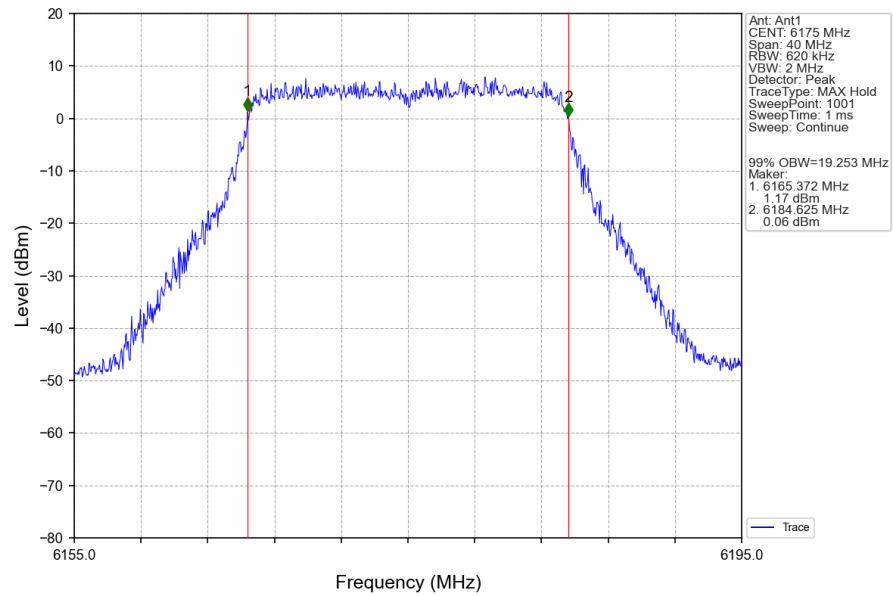
802.11a HCH 6415MHz Ant1 NTV



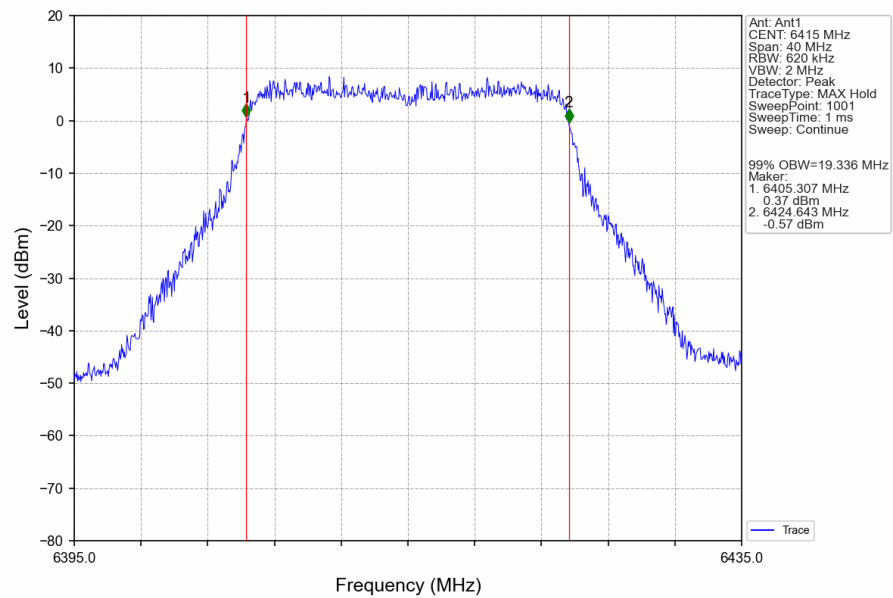
802.11ax(HEW20)_LCH_5955MHz_RU242_Left_Ant1_NTV



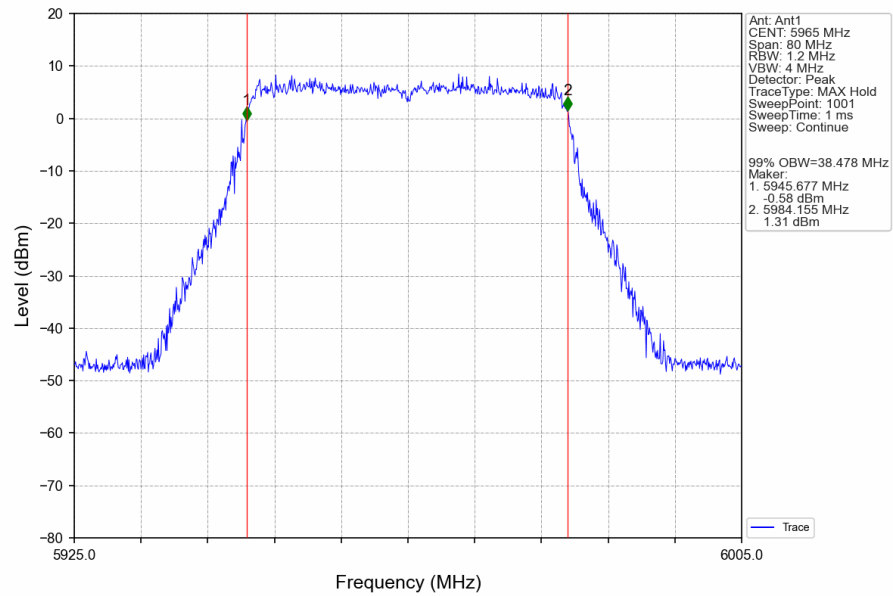
802.11ax(HEW20) MCH 6175MHz RU242 Left Ant1 NTN



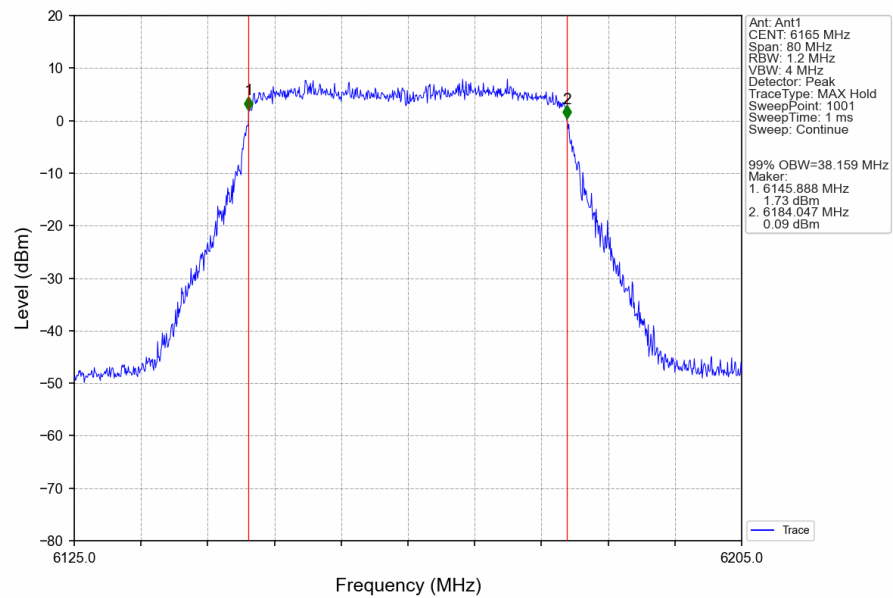
802.11ax(HEW20) HCH 6415MHz RU242 Left Ant1 NTN



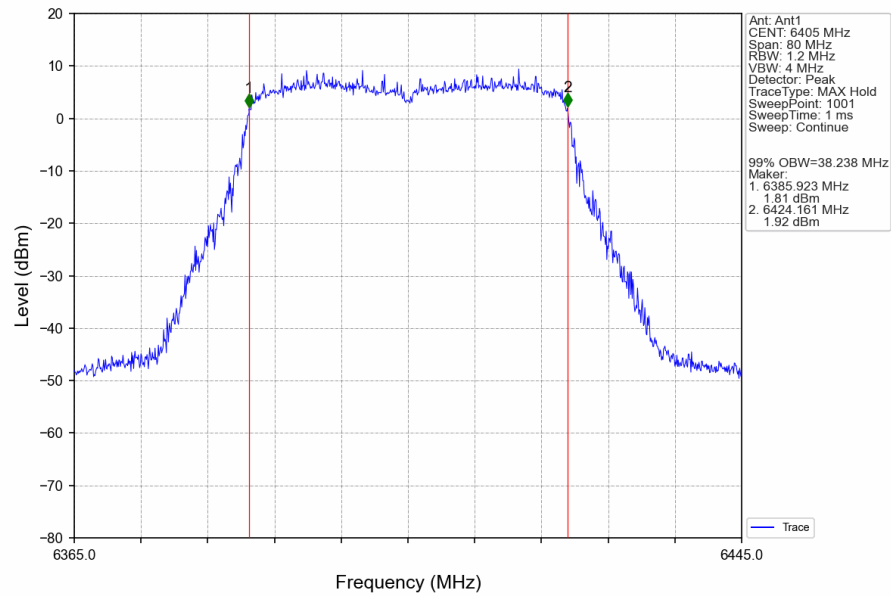
802.11ax(HEW40) LCH 5965MHz RU484 Left Ant1 NTN



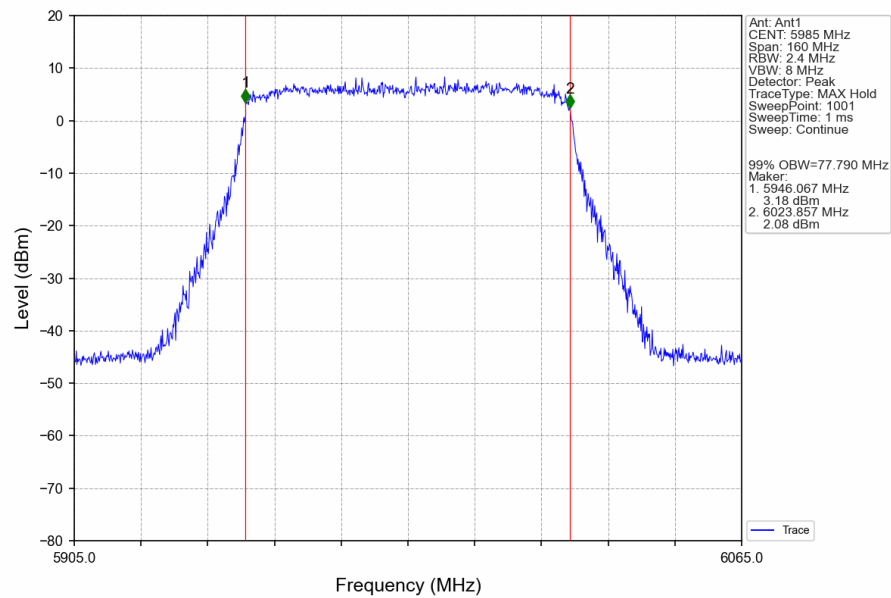
802.11ax(HEW40) MCH 6165MHz RU484 Left Ant1 NTN



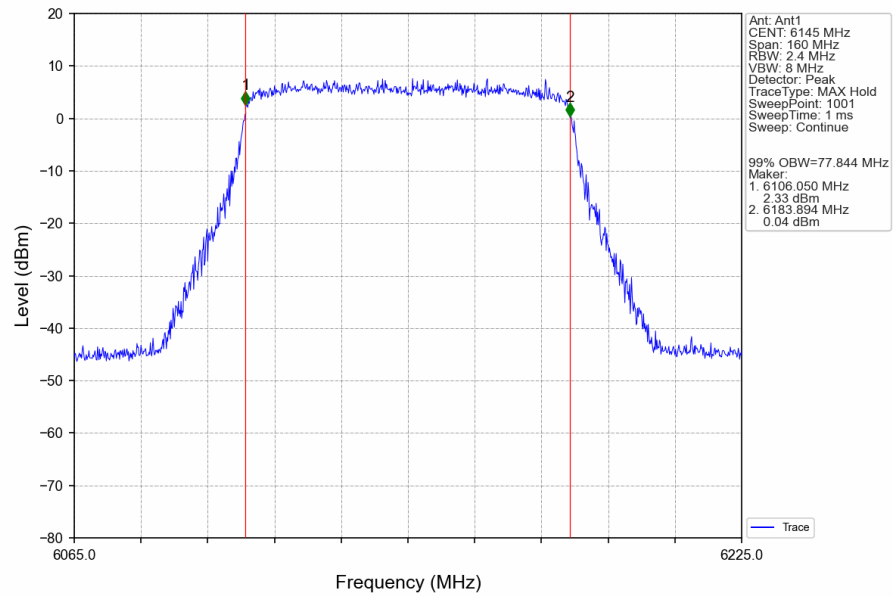
802.11ax(HEW40) HCH 6405MHz RU484 Left Ant1 NTN



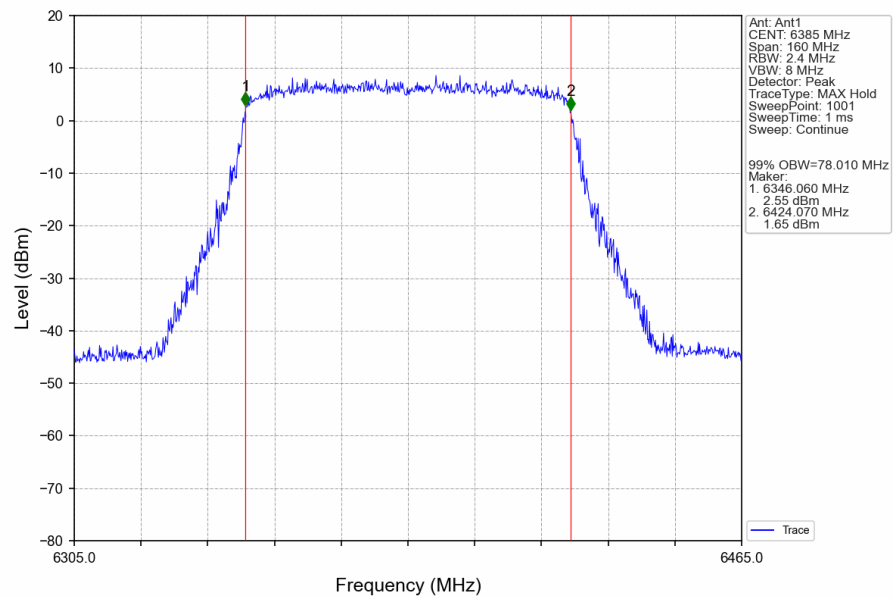
802.11ax(HEW80) LCH 5985MHz RU996 Left Ant1 NTN



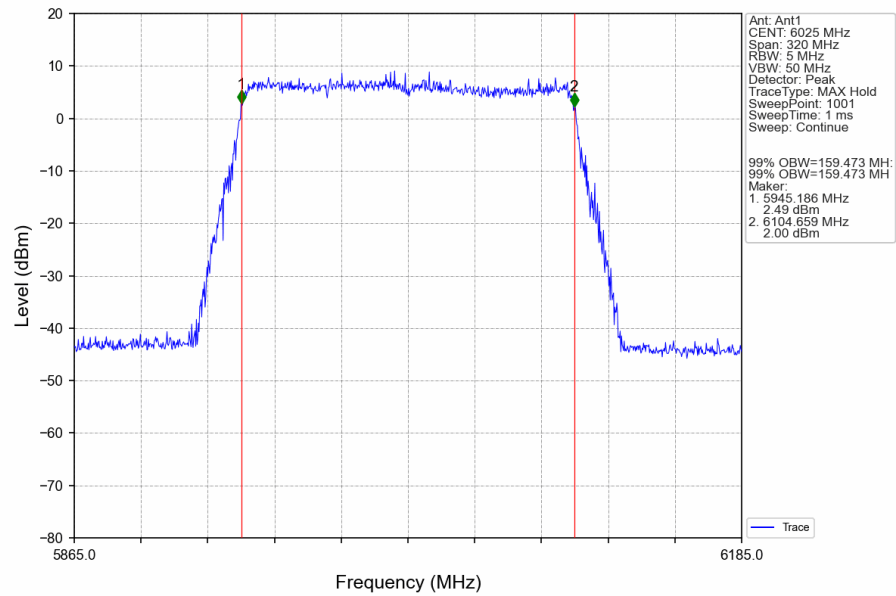
802.11ax(HEW80) MCH 6145MHz RU996 Left Ant1 NTN



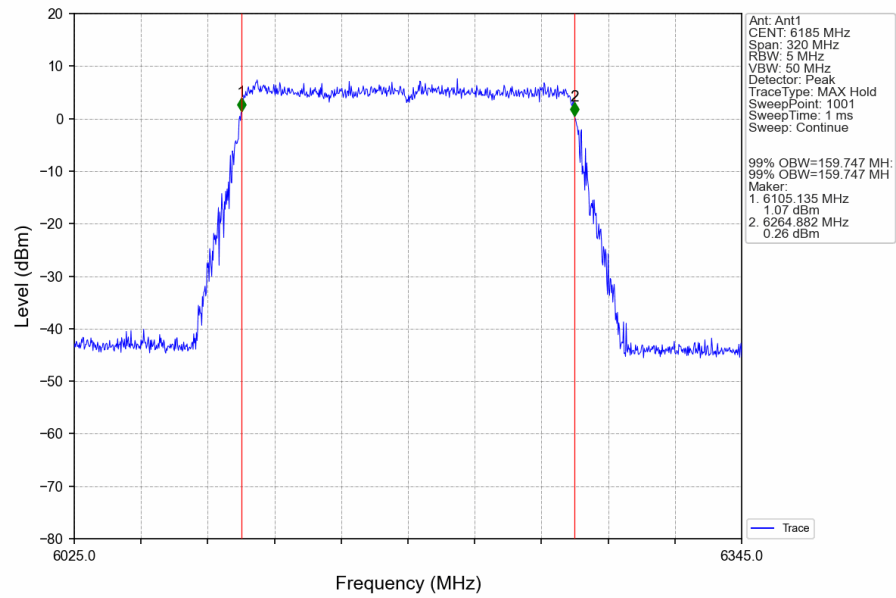
802.11ax(HEW80) HCH 6385MHz RU996 Left Ant1 NTN



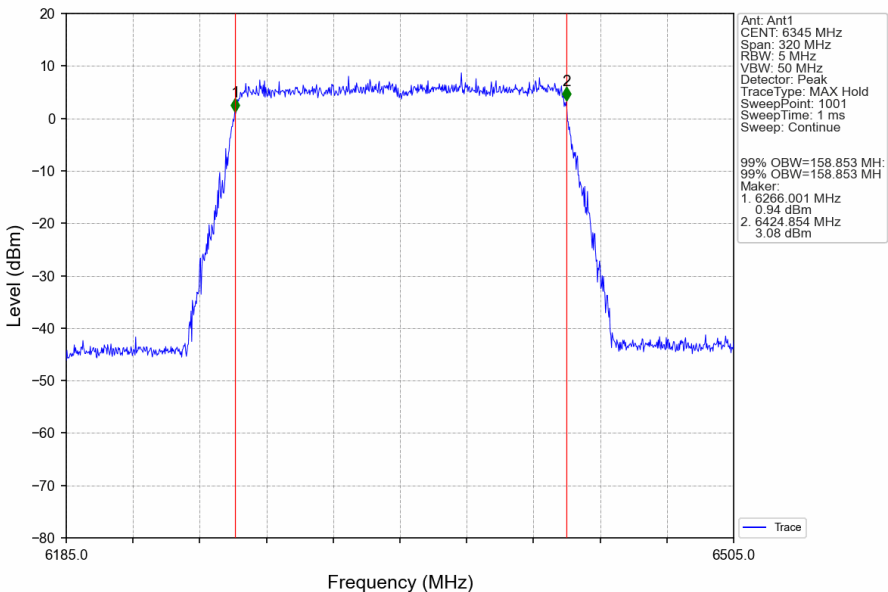
802.11ax(HEW160) LCH 6025MHz 2xRU996 Left Ant1 NTN



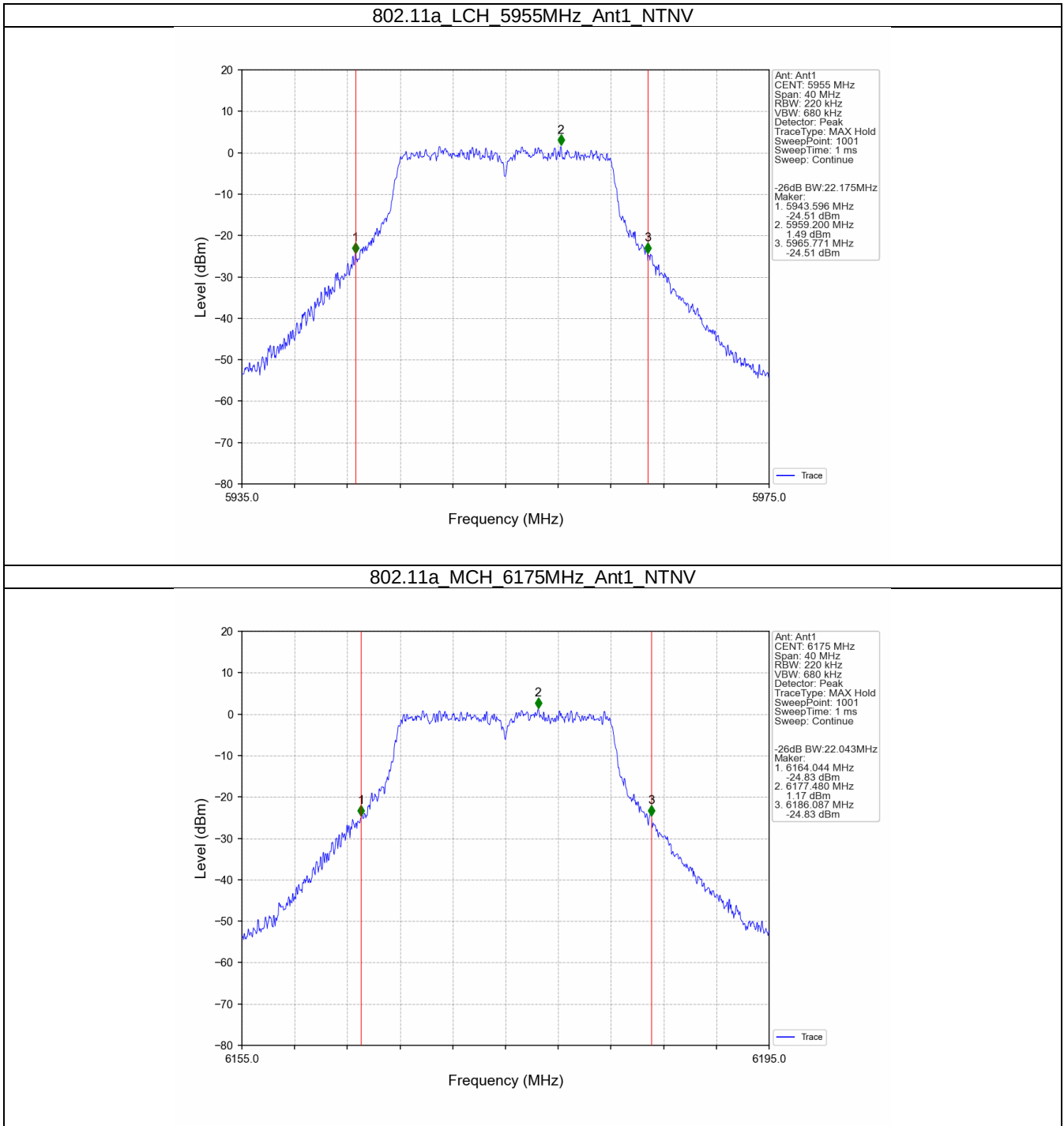
802.11ax(HEW160) MCH 6185MHz 2xRU996 Left Ant1 NTN



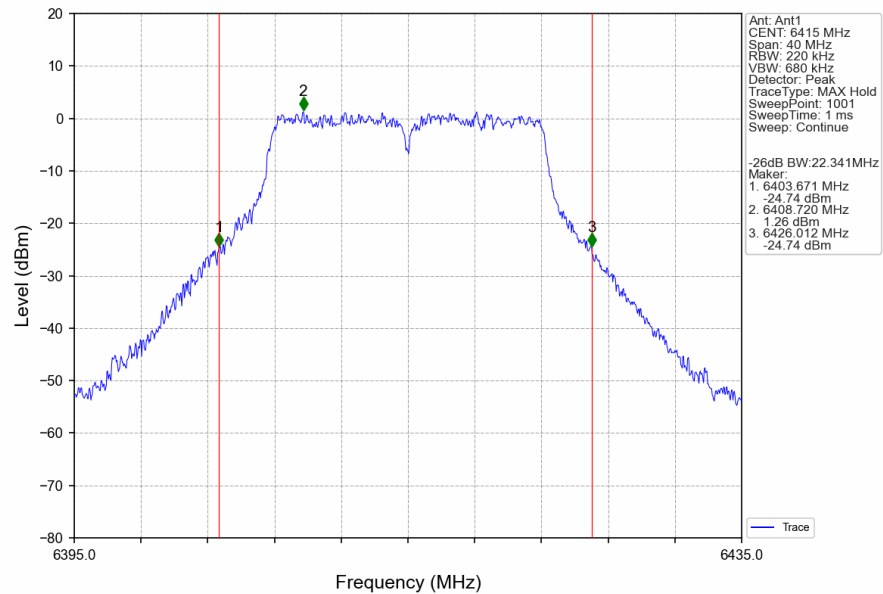
802.11ax(HEW160) HCH 6345MHz 2xRU996 Left Ant1 NTN



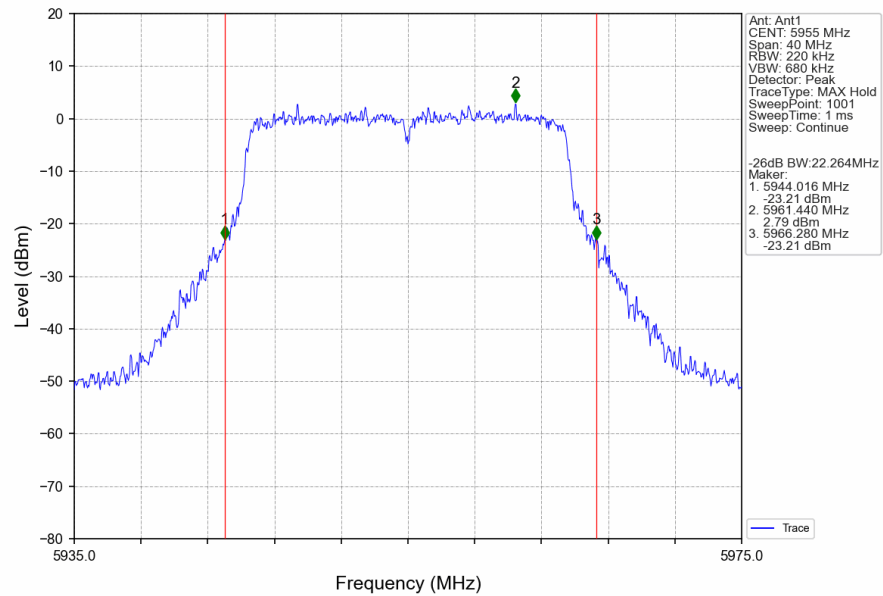
2.2.2 26dB BW



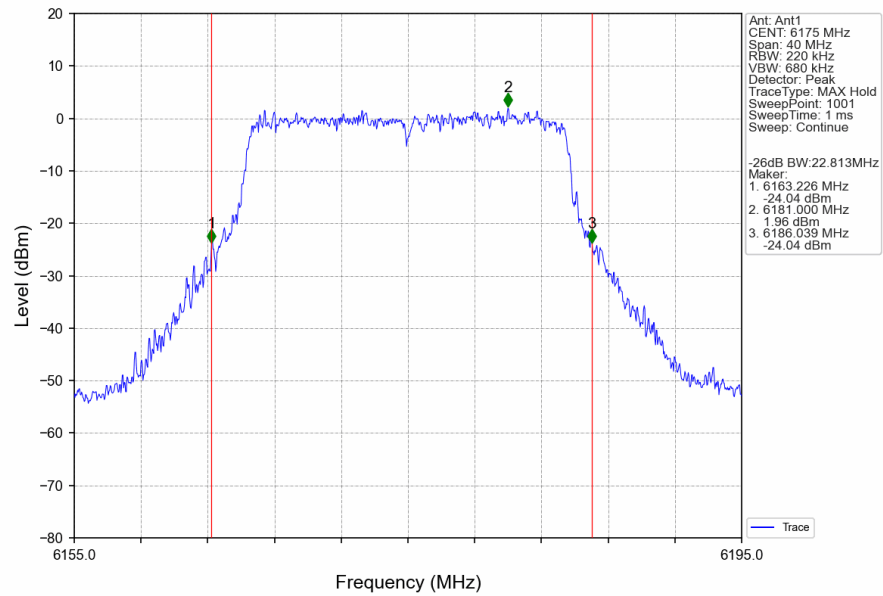
802.11a HCH 6415MHz Ant1 NTN



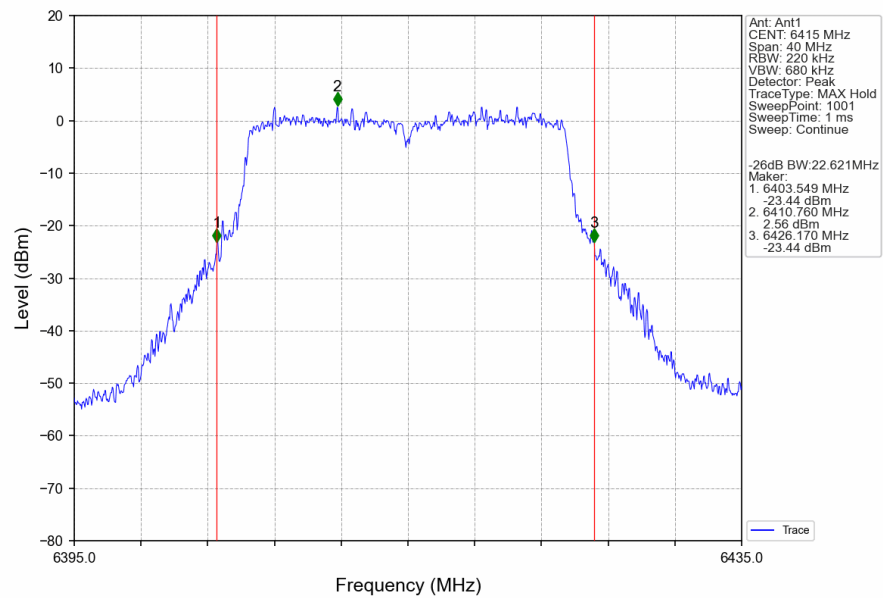
802.11ax(HEW20)_LCH_5955MHz_RU242_Left_Ant1 NTN



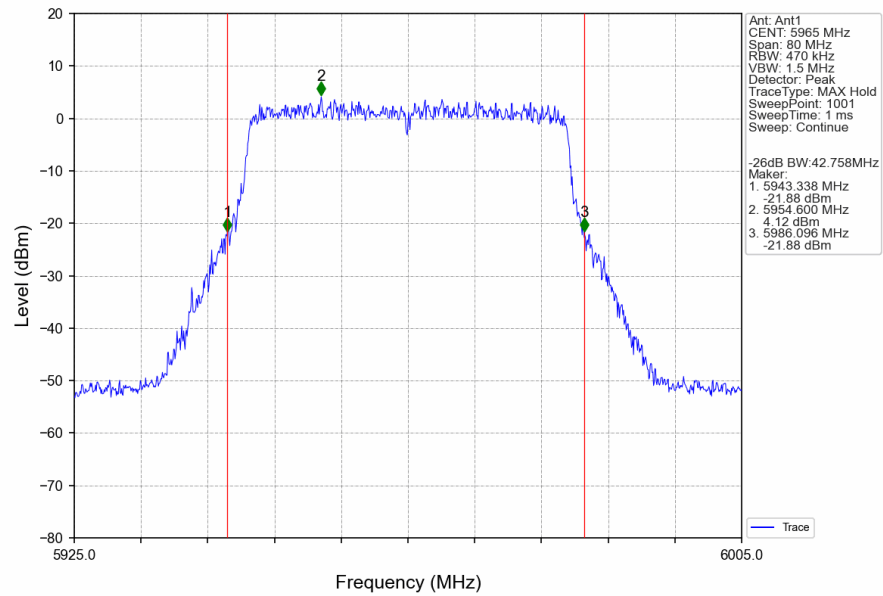
802.11ax(HEW20) MCH 6175MHz RU242 Left Ant1 NTN



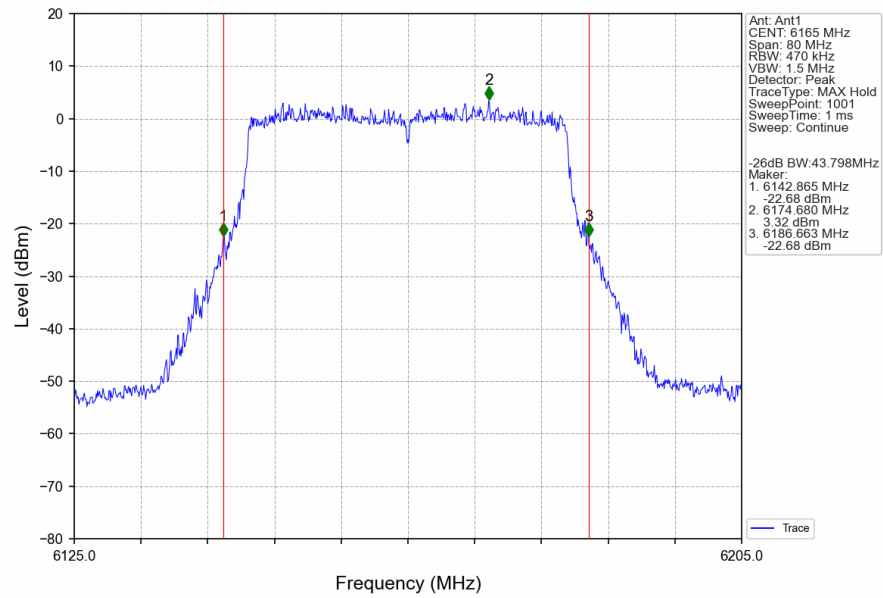
802.11ax(HEW20) HCH 6415MHz RU242 Left Ant1 NTN



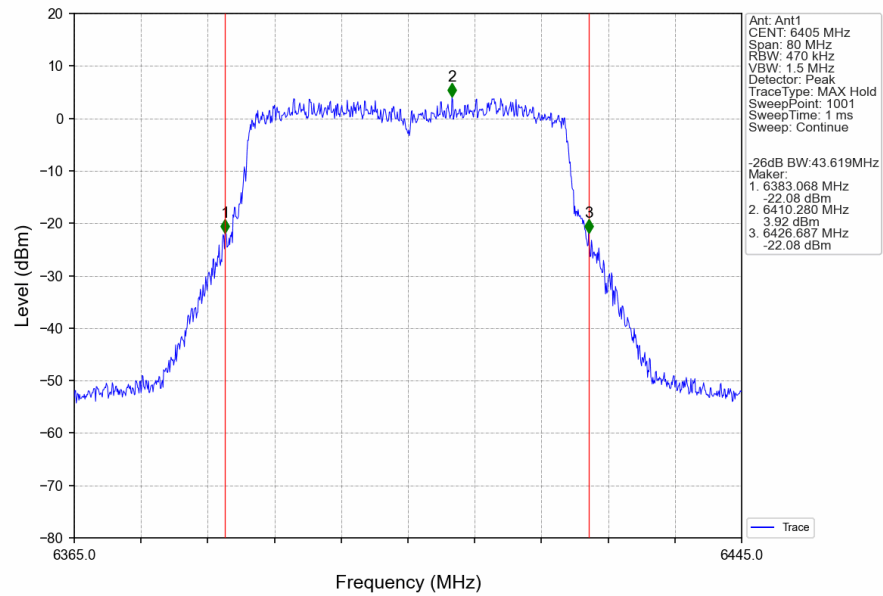
802.11ax(HEW40) LCH 5965MHz RU484 Left Ant1 NTN



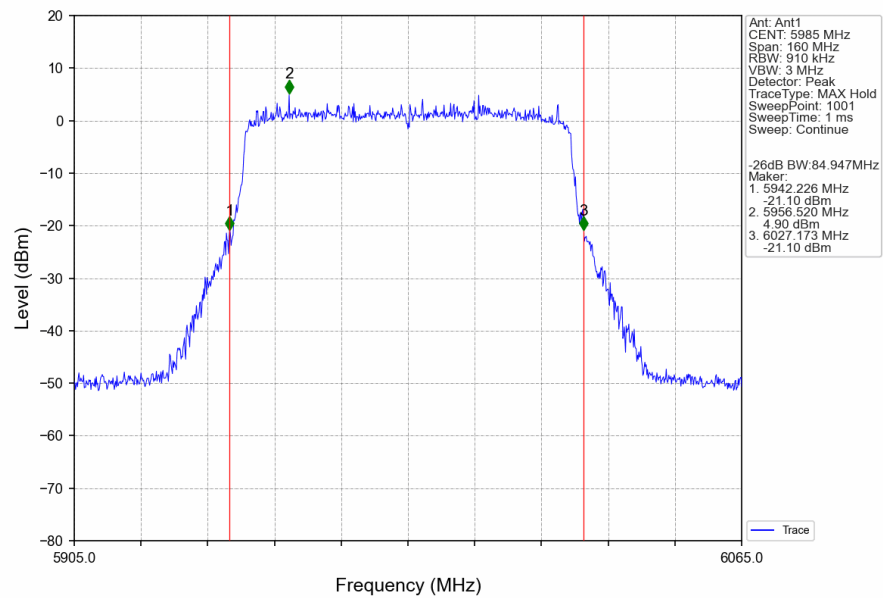
802.11ax(HEW40) MCH 6165MHz RU484 Left Ant1 NTN



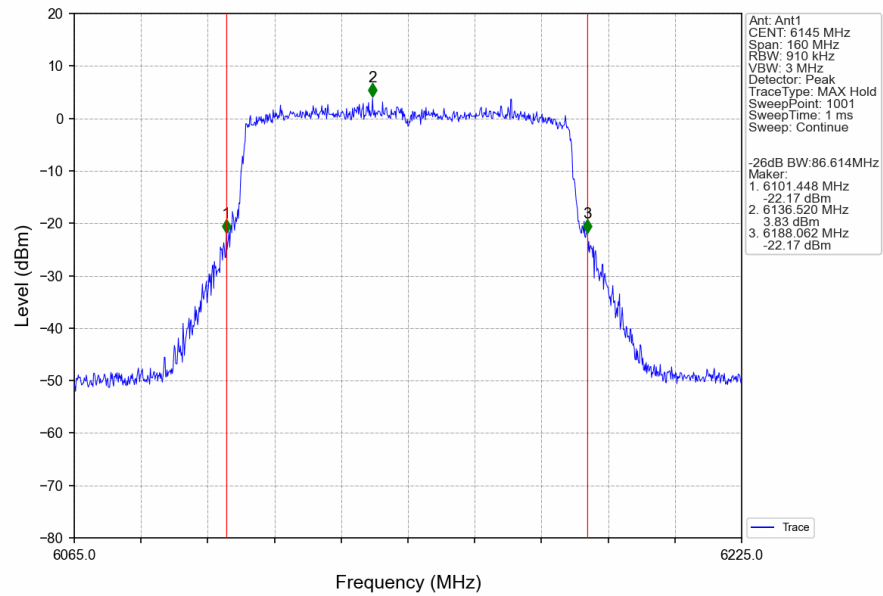
802.11ax(HEW40) HCH 6405MHz RU484 Left Ant1 NTN



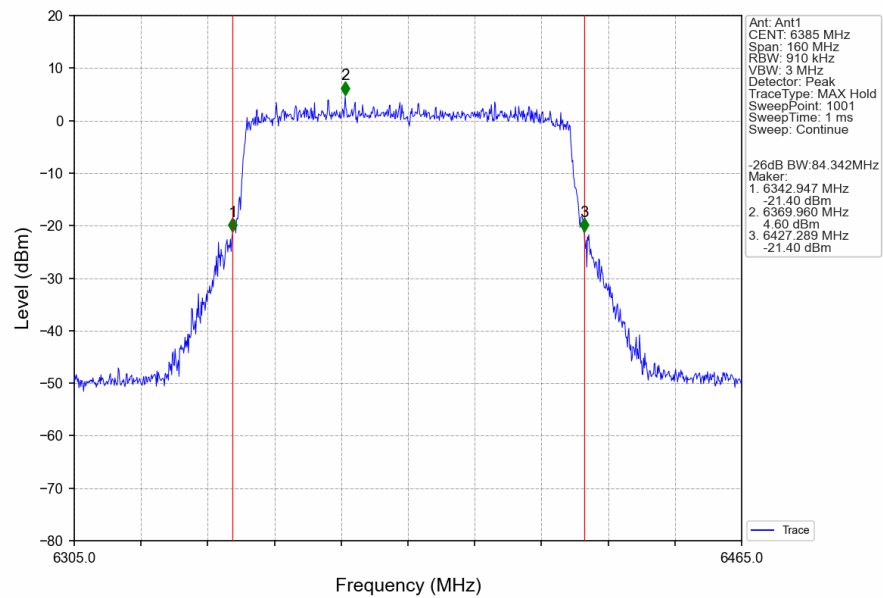
802.11ax(HEW80)_LCH_5985MHz_RU996_Left_Ant1_NTN



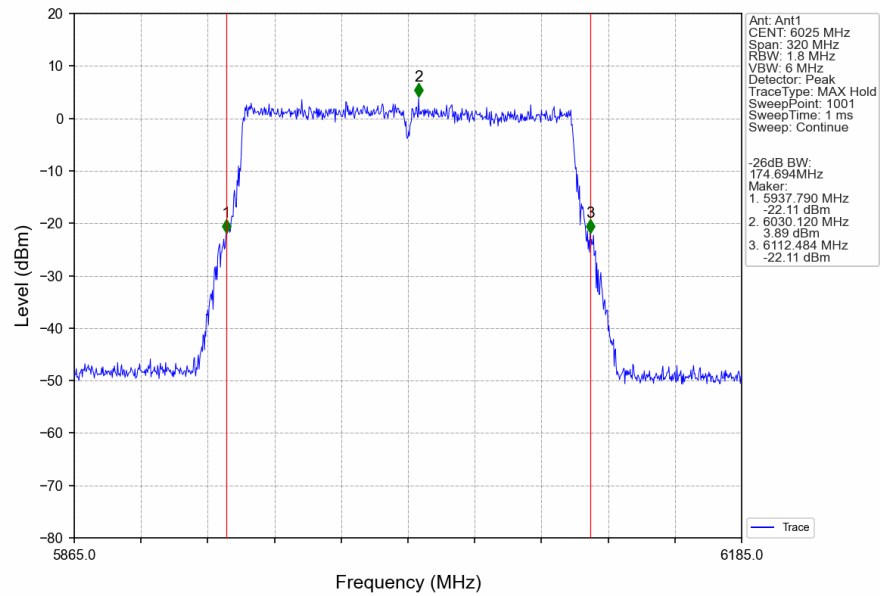
802.11ax(HEW80) MCH 6145MHz RU996 Left Ant1 NTN



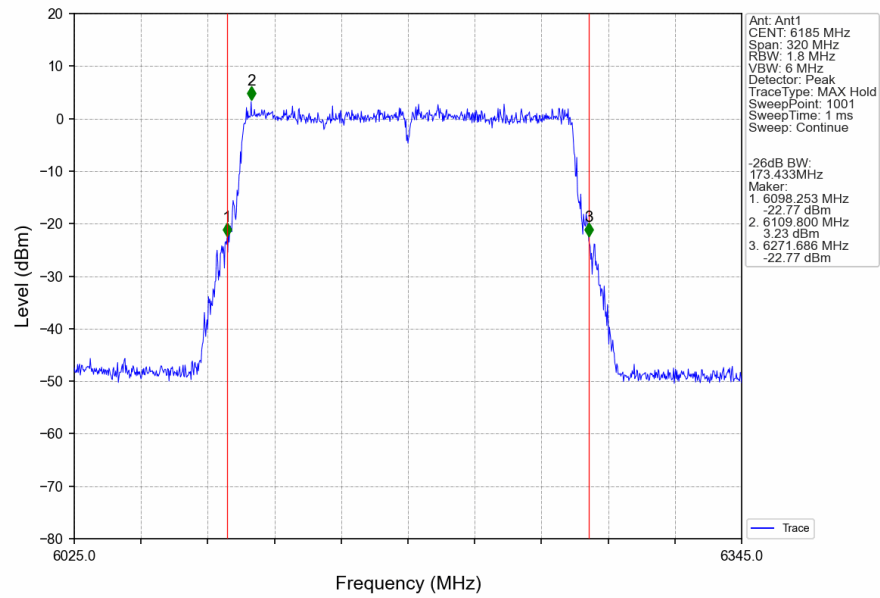
802.11ax(HEW80) HCH 6385MHz RU996 Left Ant1 NTN



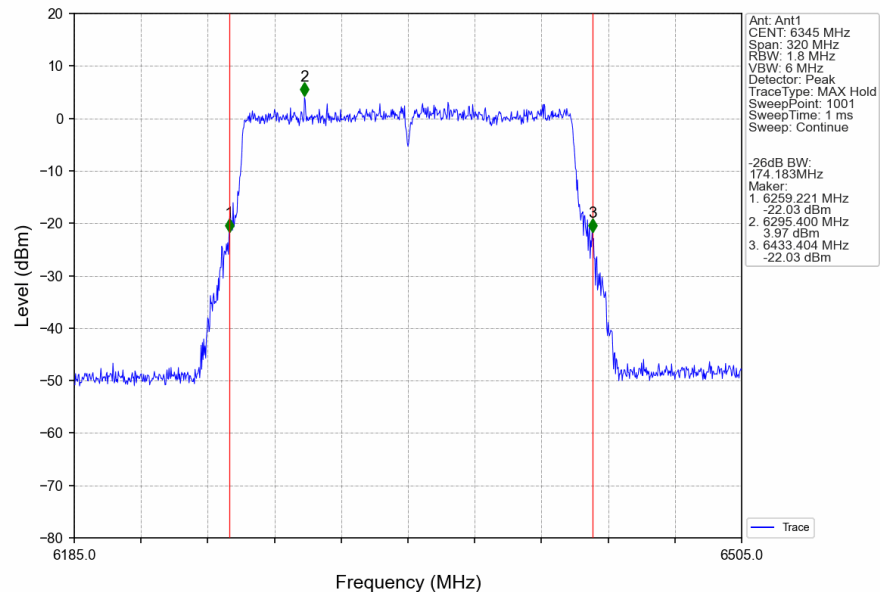
802.11ax(HEW160) LCH 6025MHz 2xRU996 Left Ant1 NTN



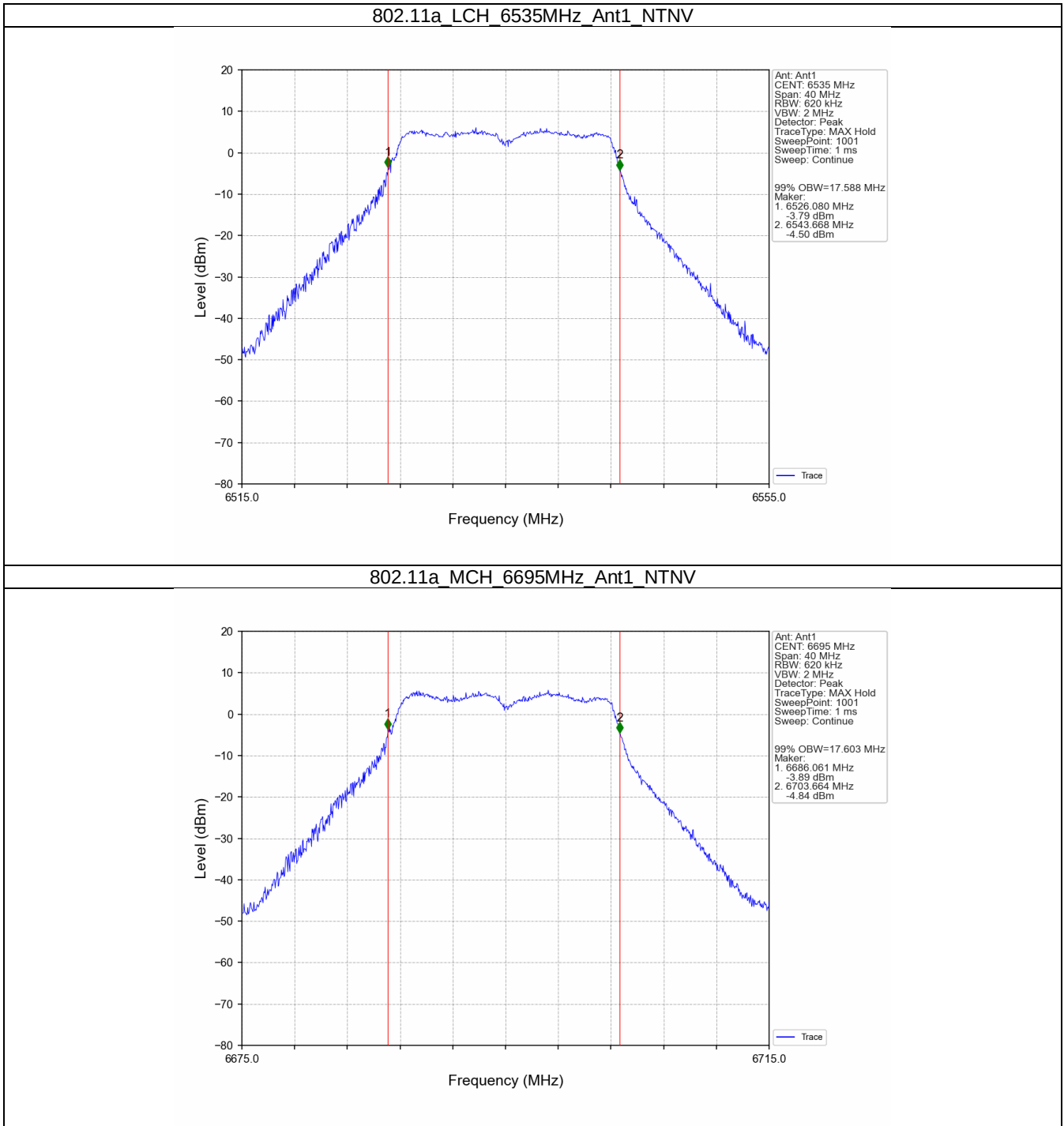
802.11ax(HEW160) MCH 6185MHz 2xRU996 Left Ant1 NTN



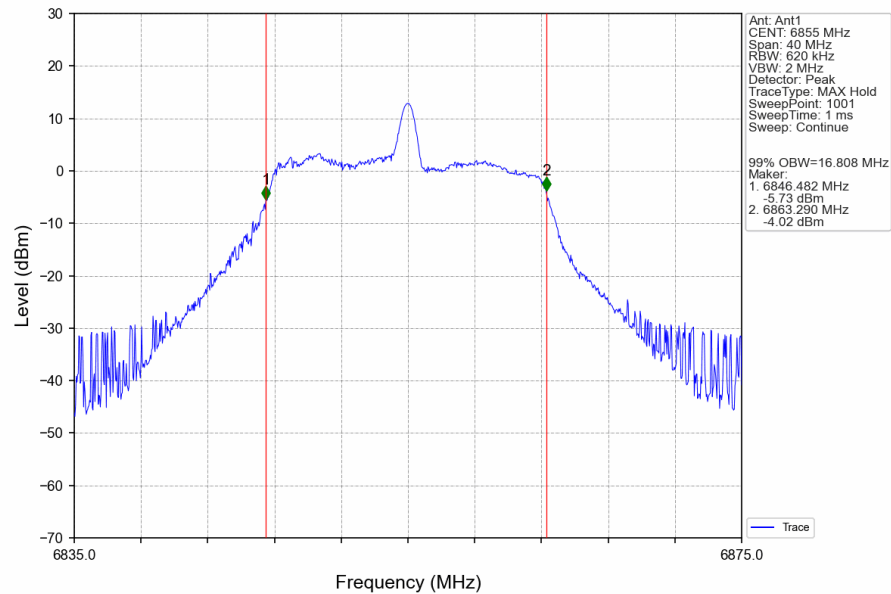
802.11ax(HEW160) HCH 6345MHz 2xRU996 Left Ant1 NTN



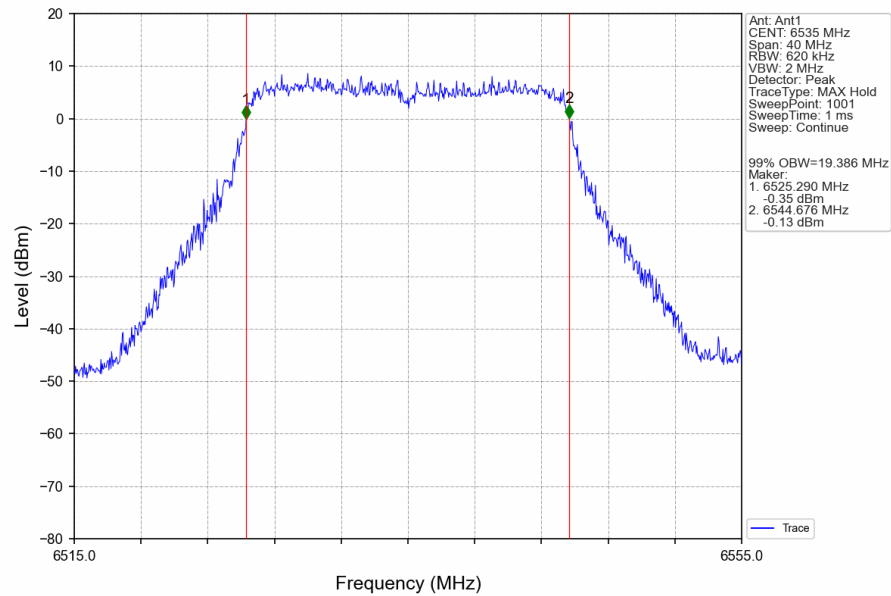
2.2.3 OBW



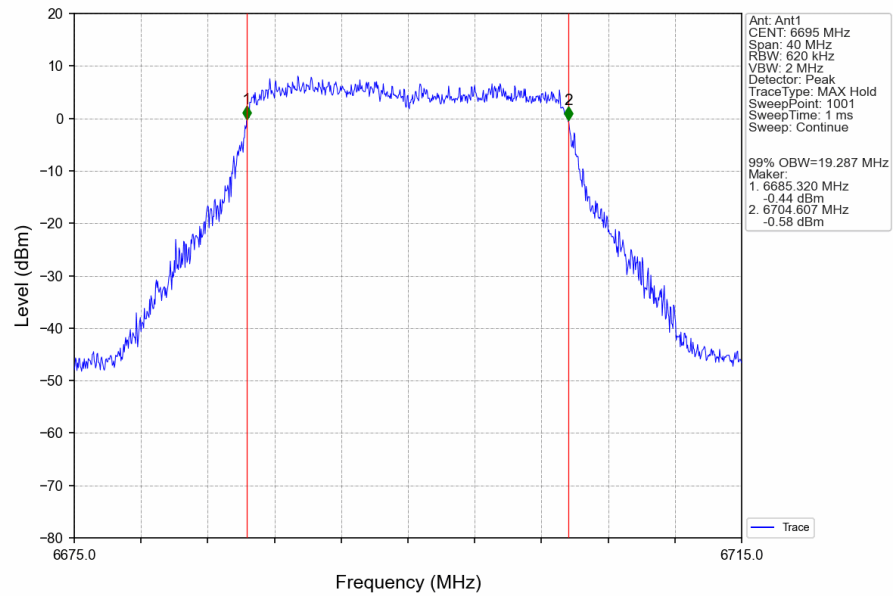
802.11a HCH 6855MHz Ant1 NTV



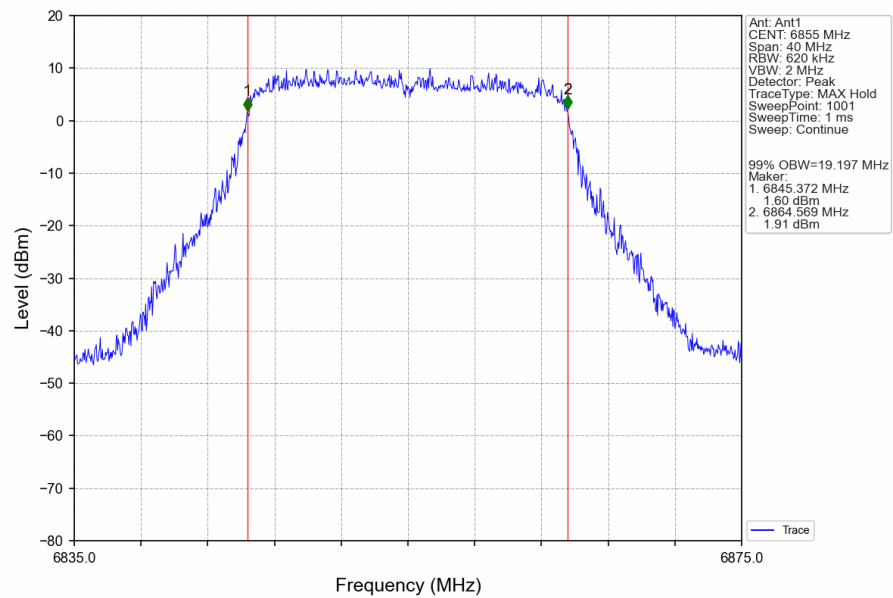
802.11ax(HEW20)_LCH_6535MHz_RU242_Left_Ant1_NTV



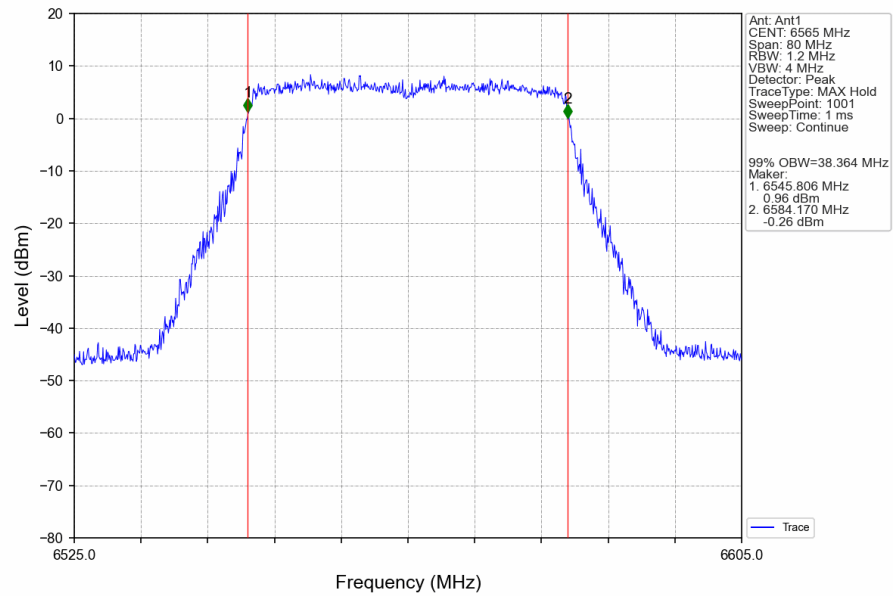
802.11ax(HEW20) MCH 6695MHz RU242 Left Ant1 NTN



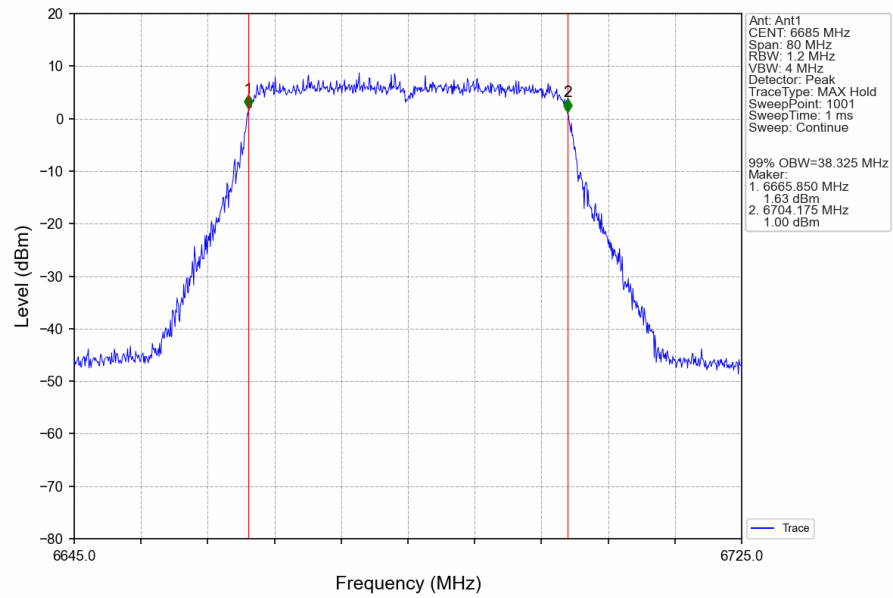
802.11ax(HEW20) HCH 6855MHz RU242 Left Ant1 NTN



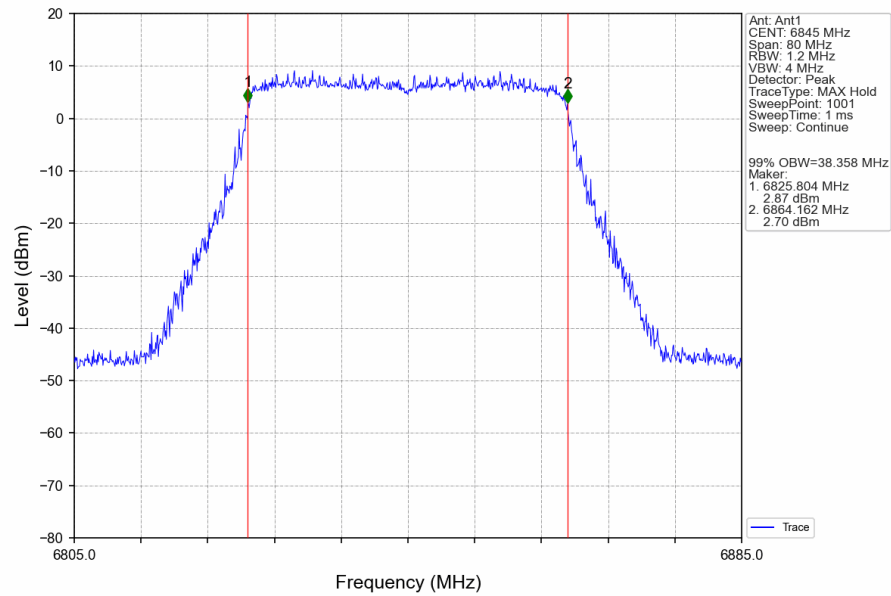
802.11ax(HEW40) LCH 6565MHz RU484 Left Ant1 NTN



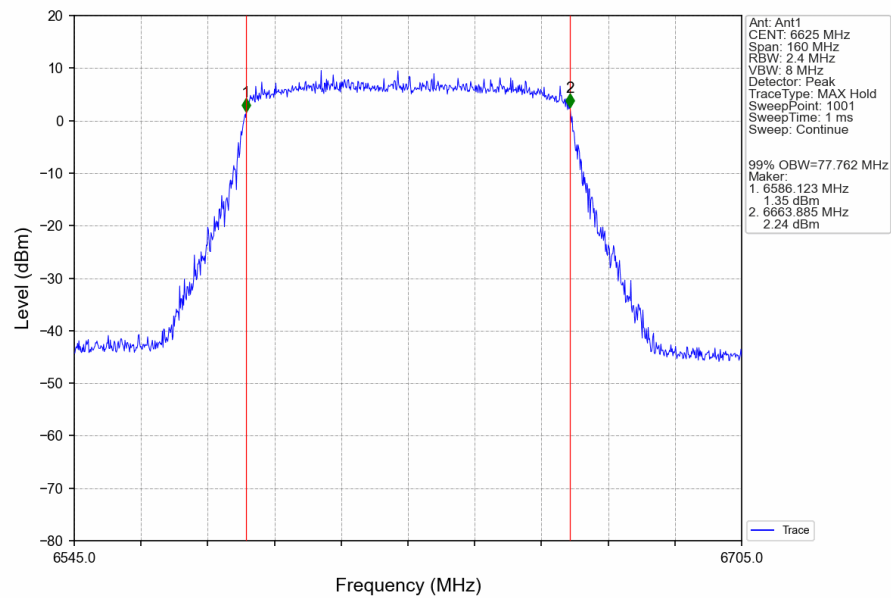
802.11ax(HEW40) MCH 6685MHz RU484 Left Ant1 NTN



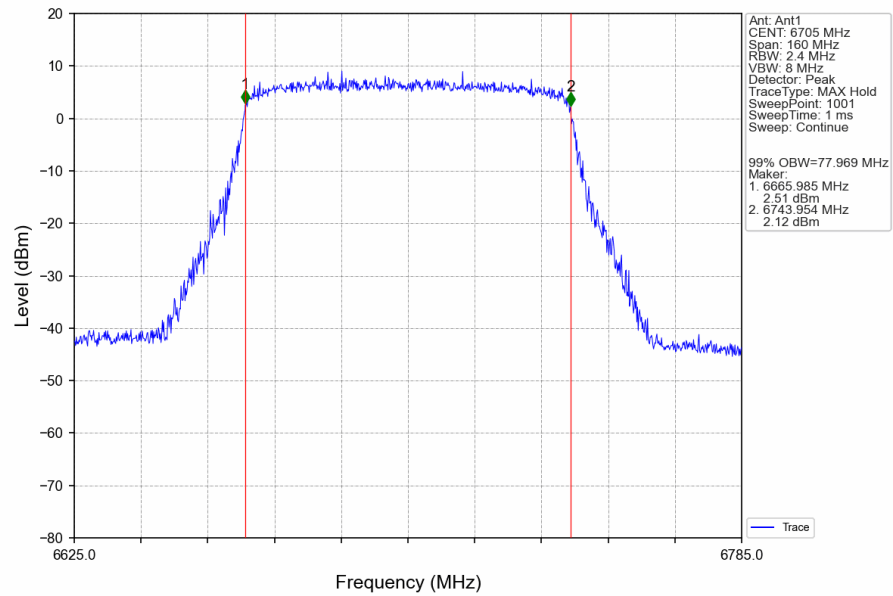
802.11ax(HEW40) HCH 6845MHz RU484 Left Ant1 NTN



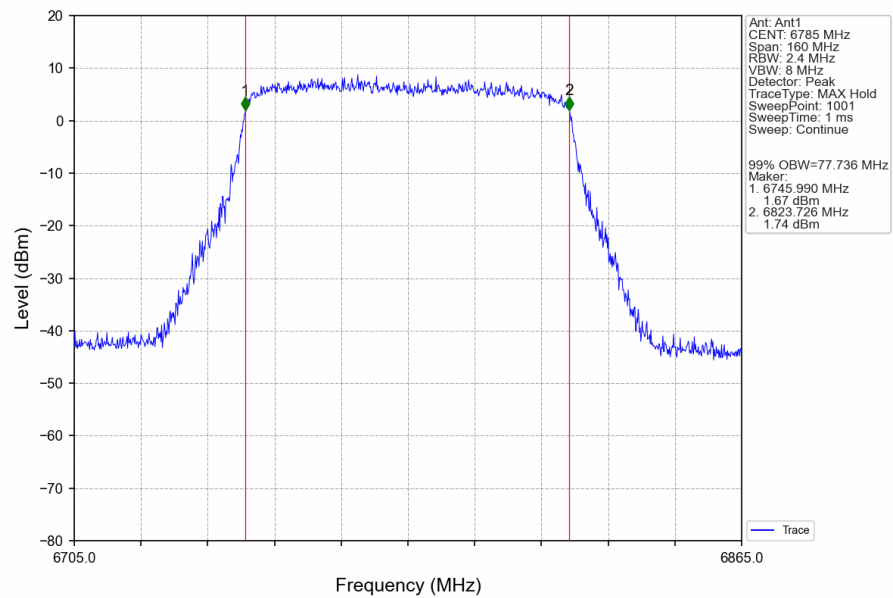
802.11ax(HEW80) LCH 6625MHz RU996 Left Ant1 NTN



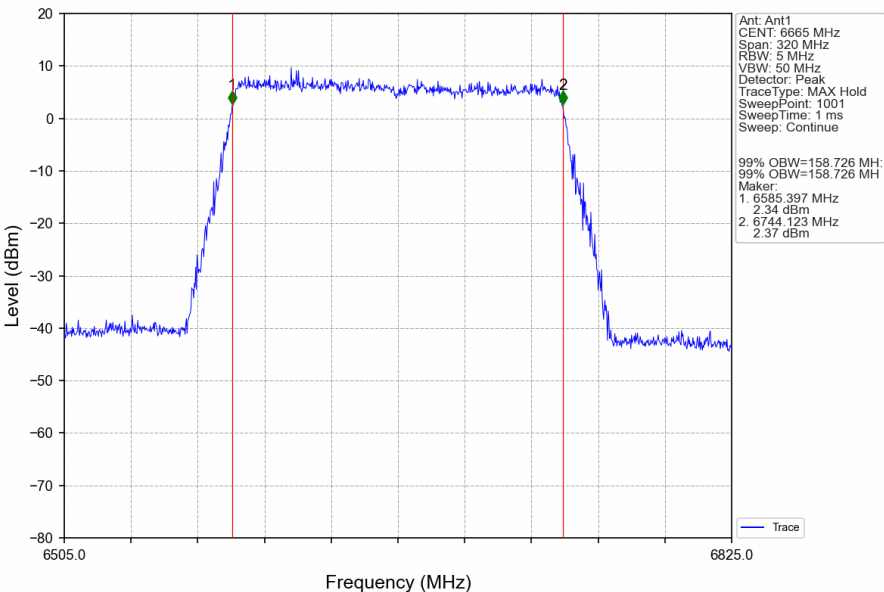
802.11ax(HEW80) MCH 6705MHz RU996 Left Ant1 NTN



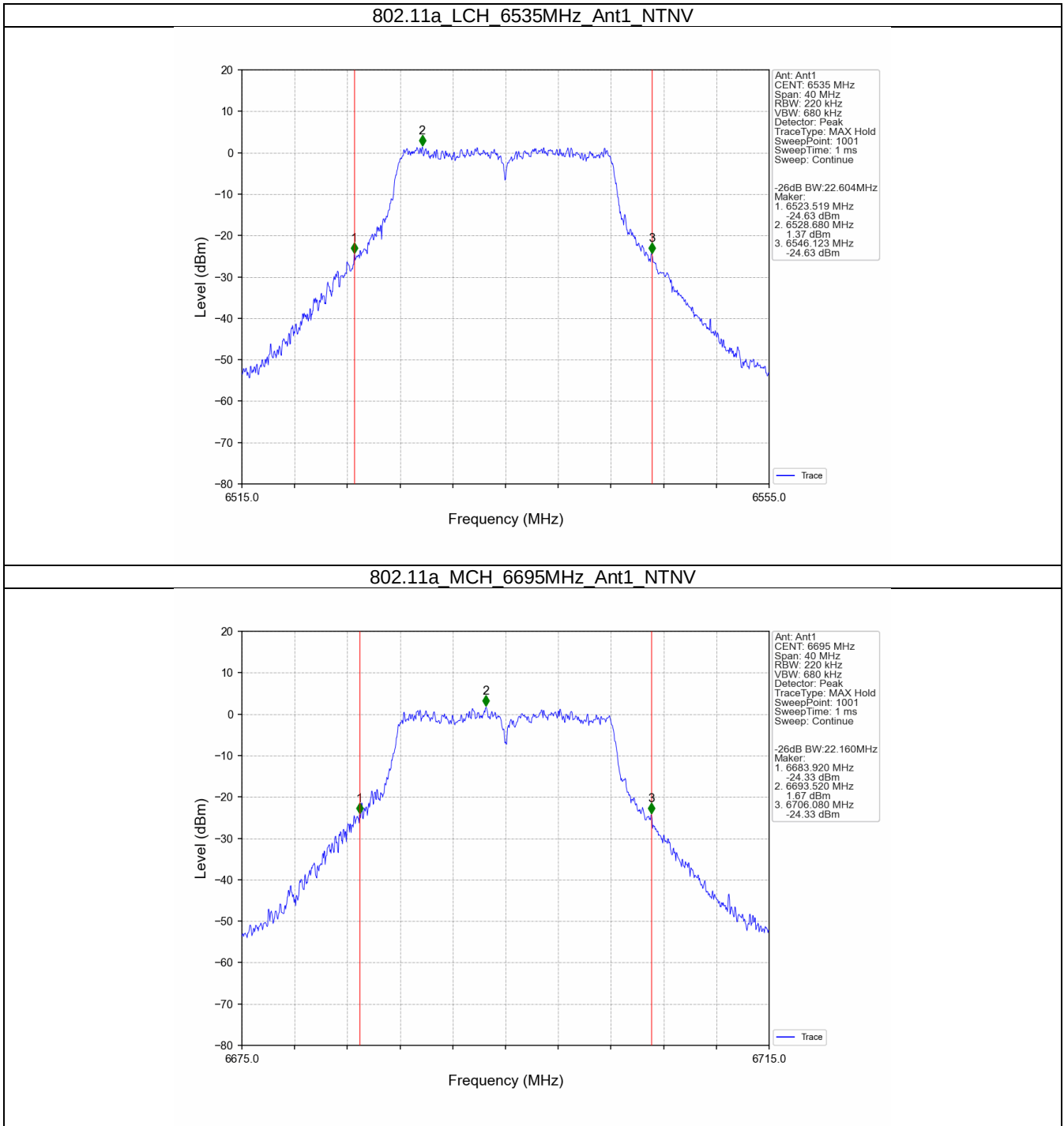
802.11ax(HEW80) HCH 6785MHz RU996 Left Ant1 NTN



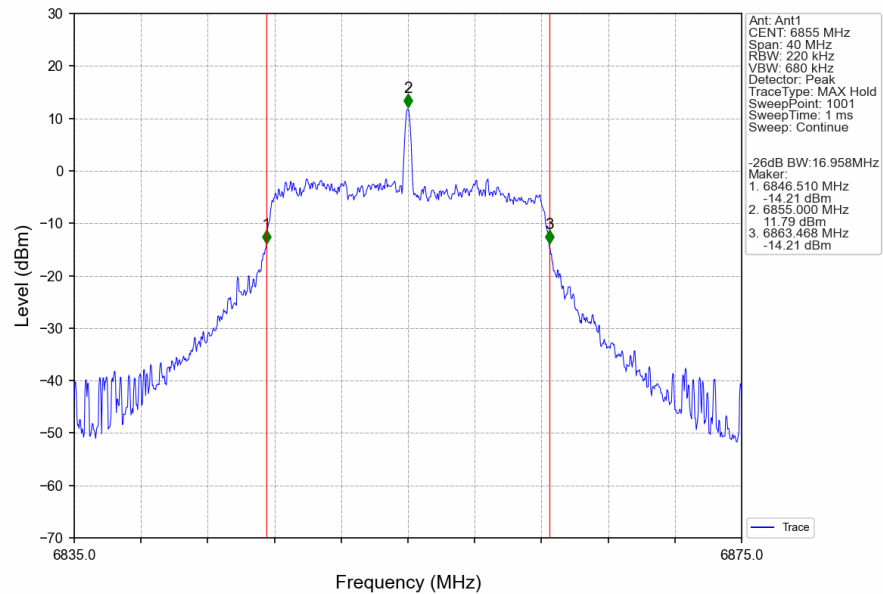
802.11ax(HEW160) MCH 6665MHz 2xRU996 Left Ant1 NTN



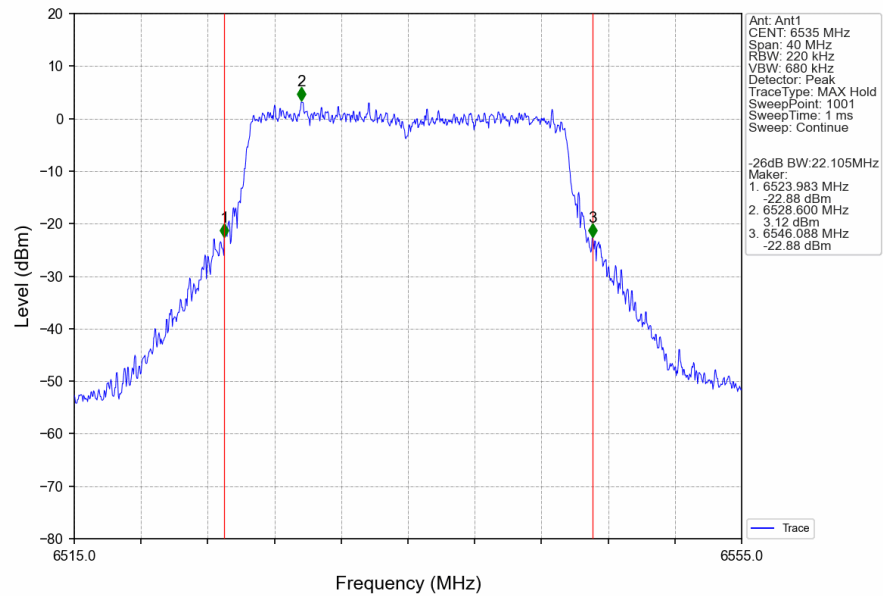
2.2.4 26dB BW



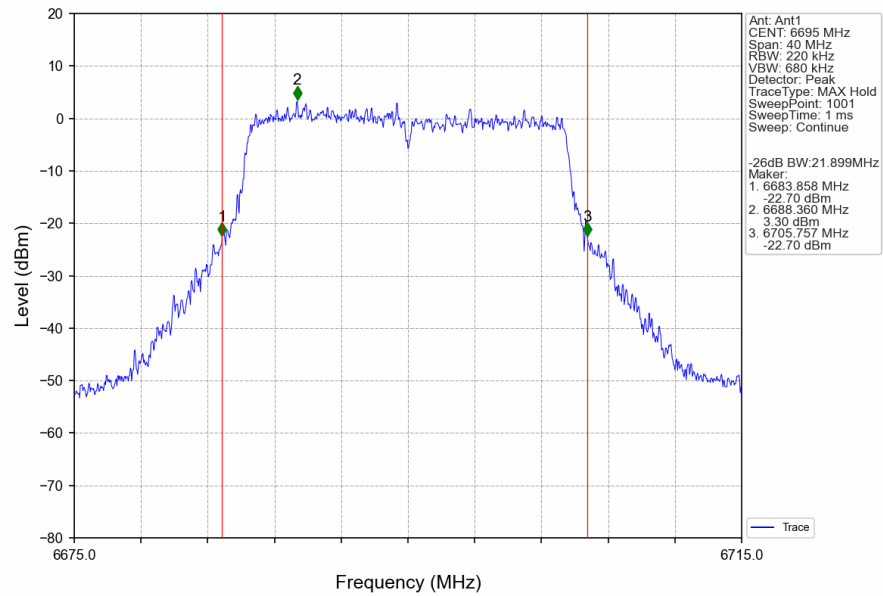
802.11a HCH 6855MHz Ant1 NTN



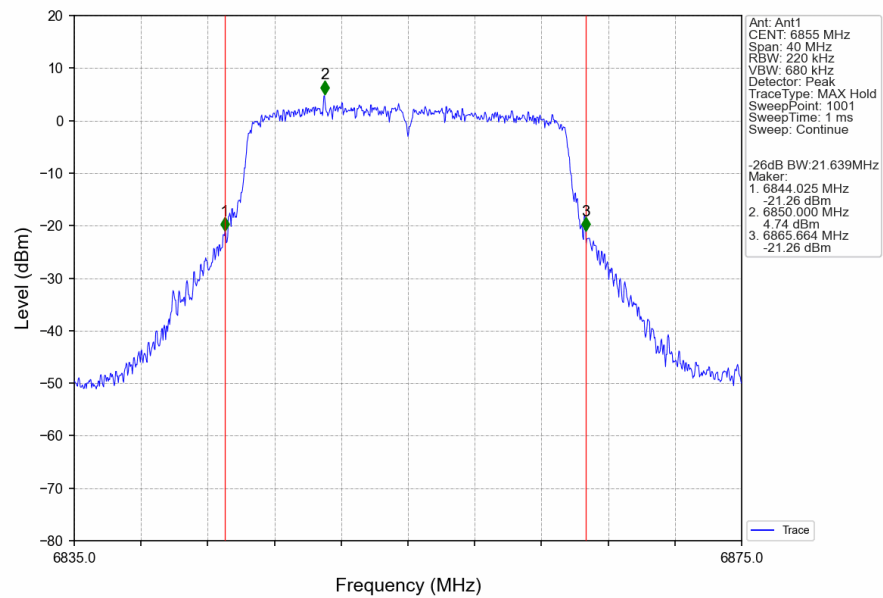
802.11ax(HEW20)_LCH_6535MHz_RU242_Left_Ant1 NTN



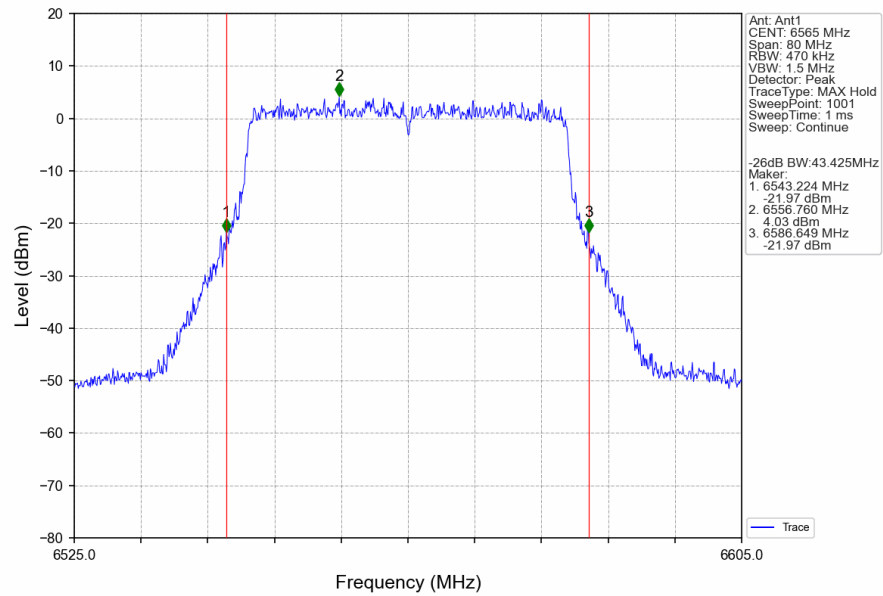
802.11ax(HEW20) MCH 6695MHz RU242 Left Ant1 NTN



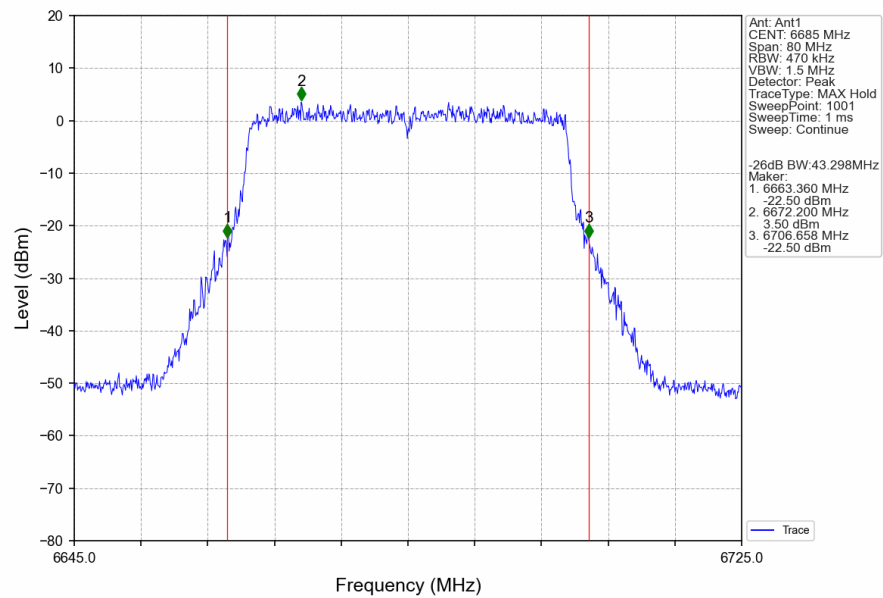
802.11ax(HEW20) HCH 6855MHz RU242 Left Ant1 NTN



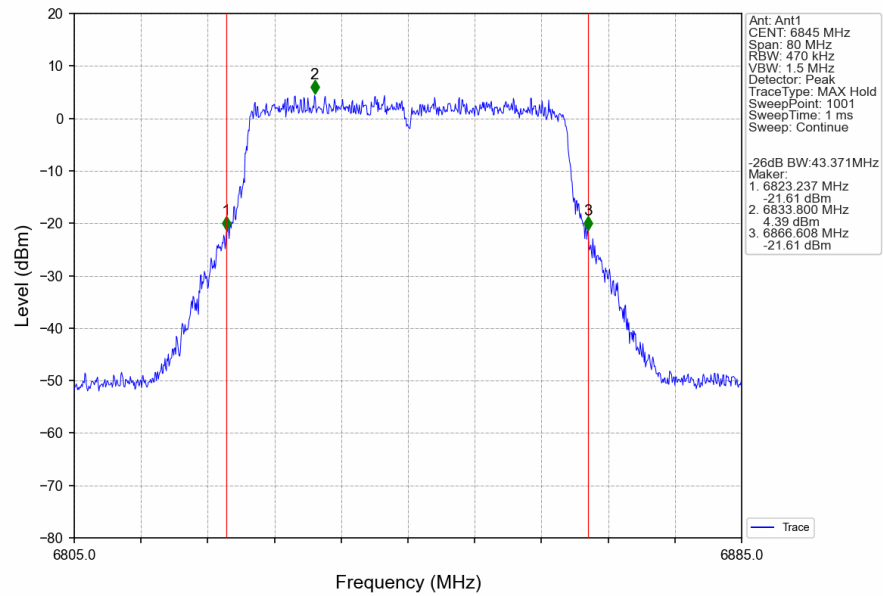
802.11ax(HEW40) LCH 6565MHz RU484 Left Ant1 NTN



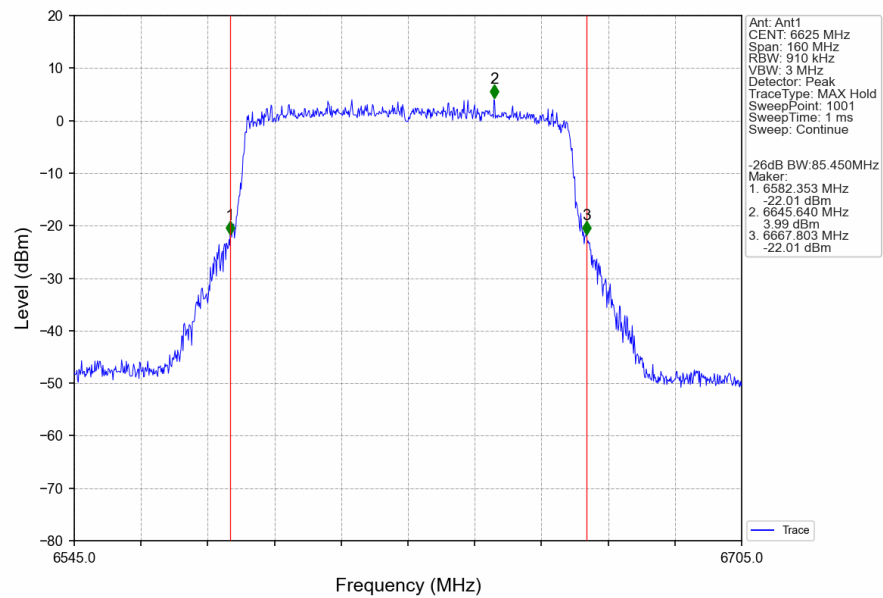
802.11ax(HEW40) MCH 6685MHz RU484 Left Ant1 NTN



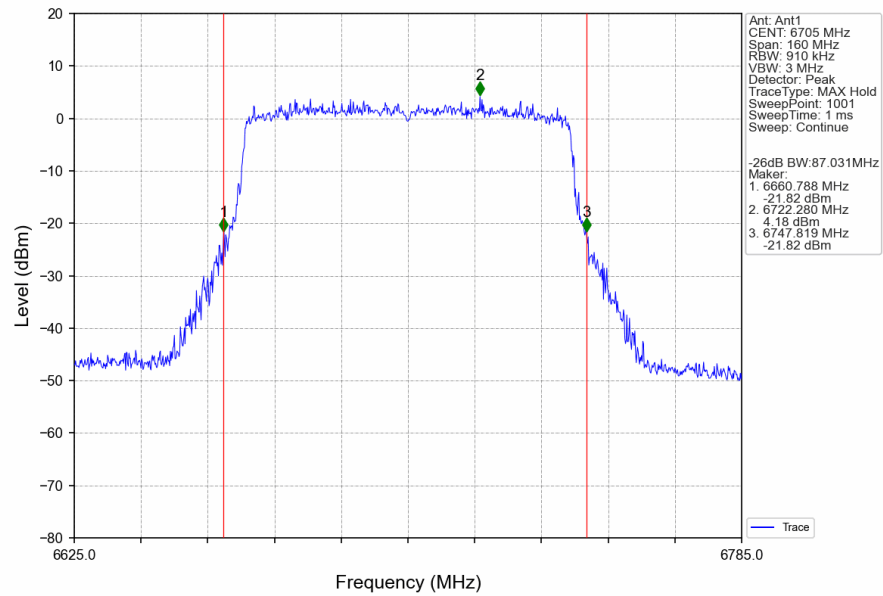
802.11ax(HEW40) HCH 6845MHz RU484 Left Ant1 NTN



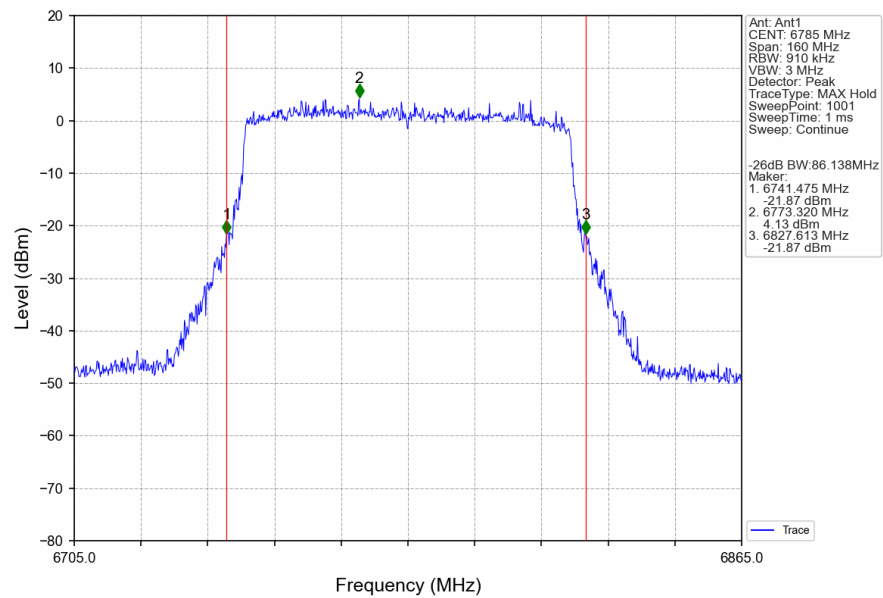
802.11ax(HEW80) LCH 6625MHz RU996 Left Ant1 NTN



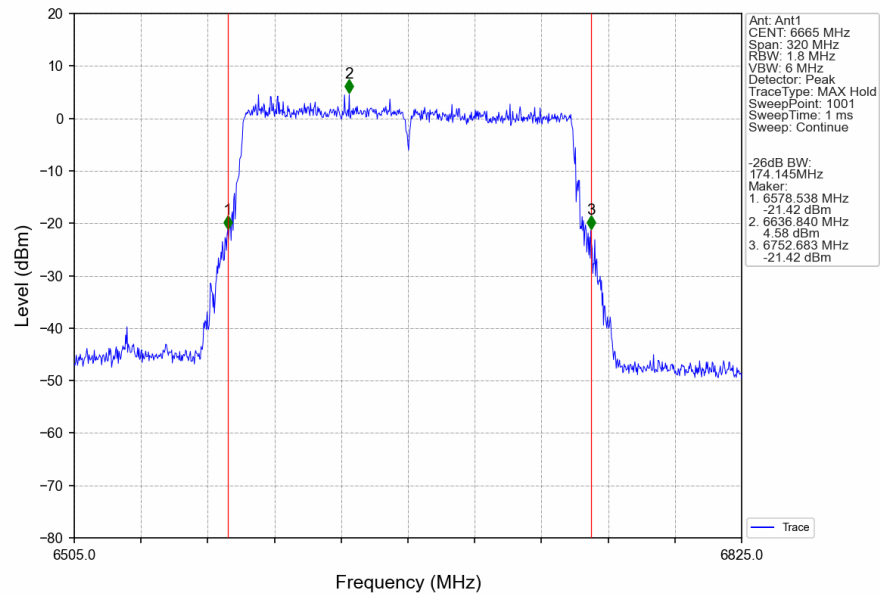
802.11ax(HEW80) MCH 6705MHz RU996 Left Ant1 NTN



802.11ax(HEW80) HCH 6785MHz RU996 Left Ant1 NTN



802.11ax(HEW160) MCH 6665MHz 2xRU996 Left Ant1 NTN



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	ANT0	MIMO	Limit	
NTNV	802.11a	MIMO	5955	/	/	10.82	12.63	14.83	/	Pass
			6175	/	/	10.92	12.83	14.99	/	Pass
			6415	/	/	11.38	12.86	15.19	/	Pass
	802.11ax (HEW20)	MIMO	5955	RU242	Left	10.90	12.75	14.94	/	Pass
			6175	RU242	Left	10.56	12.60	14.71	/	Pass
			6415	RU242	Left	11.19	12.27	14.78	/	Pass
	802.11ax (HEW40)	MIMO	5965	RU484	Left	10.45	12.48	14.59	/	Pass
			6165	RU484	Left	10.82	12.16	14.56	/	Pass
			6405	RU484	Left	11.45	12.82	15.20	/	Pass
	802.11ax (HEW80)	MIMO	5985	RU996	Left	10.40	12.42	14.53	/	Pass
			6145	RU996	Left	11.03	11.70	14.39	/	Pass
			6385	RU996	Left	11.26	12.86	15.14	/	Pass
	802.11ax (HEW160)	MIMO	6025	2xRU996	Left	10.40	11.57	14.03	/	Pass
			6185	2xRU996	Left	10.04	12.02	14.15	/	Pass
			6345	2xRU996	Left	10.88	12.26	14.63	/	Pass

3.1.2 EIRP

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)		Gain (dBi)		E.I.R.P (dBm)				Verdict
						ANT1	ANT0	ANT1	ANT0	ANT1	ANT0	MIMO	Limit	
NTNV	802.11a	MIMO	5955	/	/	10.82	12.63	1.4	0.75	12.22	13.38	15.85	<=30	Pass
			6175	/	/	10.92	12.83	1.4	0.75	12.32	13.58	16.01	<=30	Pass
			6415	/	/	11.38	12.86	1.4	0.75	12.78	13.61	16.23	<=30	Pass
	802.11ax (HEW20)	MIMO	5955	RU242	Left	10.90	12.75	1.4	0.75	12.3	13.5	15.95	<=30	Pass
			6175	RU242	Left	10.56	12.60	1.4	0.75	11.96	13.35	15.72	<=30	Pass
			6415	RU242	Left	11.19	12.27	1.4	0.75	12.59	13.02	15.82	<=30	Pass
	802.11ax (HEW40)	MIMO	5965	RU484	Left	10.45	12.48	1.4	0.75	11.85	13.23	15.60	<=30	Pass
			6165	RU484	Left	10.82	12.16	1.4	0.75	12.22	12.91	15.59	<=30	Pass
			6405	RU484	Left	11.45	12.82	1.4	0.75	12.85	13.57	16.24	<=30	Pass
	802.11ax (HEW80)	MIMO	5985	RU996	Left	10.40	12.42	1.4	0.75	11.8	13.17	15.55	<=30	Pass
			6145	RU996	Left	11.03	11.70	1.4	0.75	12.43	12.45	15.45	<=30	Pass
			6385	RU996	Left	11.26	12.86	1.4	0.75	12.66	13.61	16.17	<=30	Pass
	802.11ax (HEW160)	MIMO	6025	2xRU996	Left	10.40	11.57	1.4	0.75	11.8	12.32	15.08	<=30	Pass
			6185	2xRU996	Left	10.04	12.02	1.4	0.75	11.44	12.77	15.17	<=30	Pass
			6345	2xRU996	Left	10.88	12.26	1.4	0.75	12.28	13.01	15.67	<=30	Pass

3.1.3 Power

ENV	Mode	TX	Frequency	RU	RU	Maximum Average Conducted Output Power (dBm)	Verdict
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		Type	(MHz)		Pos	ANT1	ANT0	MIMO	Limit	
NTNV	802.11a	MIMO	6535	/	/	11.46	12.58	15.06	/	Pass
			6695	/	/	11.16	12.42	14.85	/	Pass
			6855	/	/	11.22	11.74	14.50	/	Pass
	802.11ax (HEW20)	MIMO	6535	RU242	Left	11.47	12.82	15.21	/	Pass
			6695	RU242	Left	10.75	12.49	14.72	/	Pass
			6855	RU242	Left	10.44	12.01	14.31	/	Pass
	802.11ax (HEW40)	MIMO	6565	RU484	Left	10.87	11.98	14.47	/	Pass
			6685	RU484	Left	10.65	12.63	14.76	/	Pass
			6845	RU484	Left	10.92	10.89	13.91	/	Pass
	802.11ax (HEW80)	MIMO	6625	RU996	Left	10.61	12.01	14.38	/	Pass
			6705	RU996	Left	11.00	12.79	14.99	/	Pass
			6785	RU996	Left	10.72	12.18	14.52	/	Pass
	802.11ax (HEW160)	MIMO	6665	2xRU996	Left	11.08	12.34	14.77	/	Pass

3.1.4 EIRP

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Average Conducted Output Power (dBm)		Gain (dBi)		E.I.R.P (dBm)				Verdict
						ANT1	ANT0	ANT1	ANT0	ANT1	ANT0	MIMO	Limit	
NTNV	802.11a	MIMO	6535	/	/	11.46	12.58	0.9	0.92	12.36	13.5	15.98	<=30	Pass
			6695	/	/	11.16	12.42	0.9	0.92	12.06	13.34	15.76	<=30	Pass
			6855	/	/	11.22	11.74	0.9	0.92	12.12	12.66	15.41	<=30	Pass
	802.11ax (HEW20)	MIMO	6535	RU242	Left	11.47	12.82	0.9	0.92	12.37	13.74	16.12	<=30	Pass
			6695	RU242	Left	10.75	12.49	0.9	0.92	11.65	13.41	15.63	<=30	Pass
			6855	RU242	Left	10.44	12.01	0.9	0.92	11.34	12.93	15.22	<=30	Pass
	802.11ax (HEW40)	MIMO	6565	RU484	Left	10.87	11.98	0.9	0.92	11.77	12.9	15.38	<=30	Pass
			6685	RU484	Left	10.65	12.63	0.9	0.92	11.55	13.55	15.67	<=30	Pass
			6845	RU484	Left	10.92	10.89	0.9	0.92	11.82	11.81	14.83	<=30	Pass
	802.11ax (HEW80)	MIMO	6625	RU996	Left	10.61	12.01	0.9	0.92	11.51	12.93	15.29	<=30	Pass
			6705	RU996	Left	11.00	12.79	0.9	0.92	11.9	13.71	15.91	<=30	Pass
			6785	RU996	Left	10.72	12.18	0.9	0.92	11.62	13.1	15.43	<=30	Pass
	802.11ax (HEW160)	MIMO	6665	2xRU996	Left	11.08	12.34	0.9	0.92	11.98	13.26	15.68	<=30	Pass