



Appendix A for SHEM210600565401

1. Duty Cycle

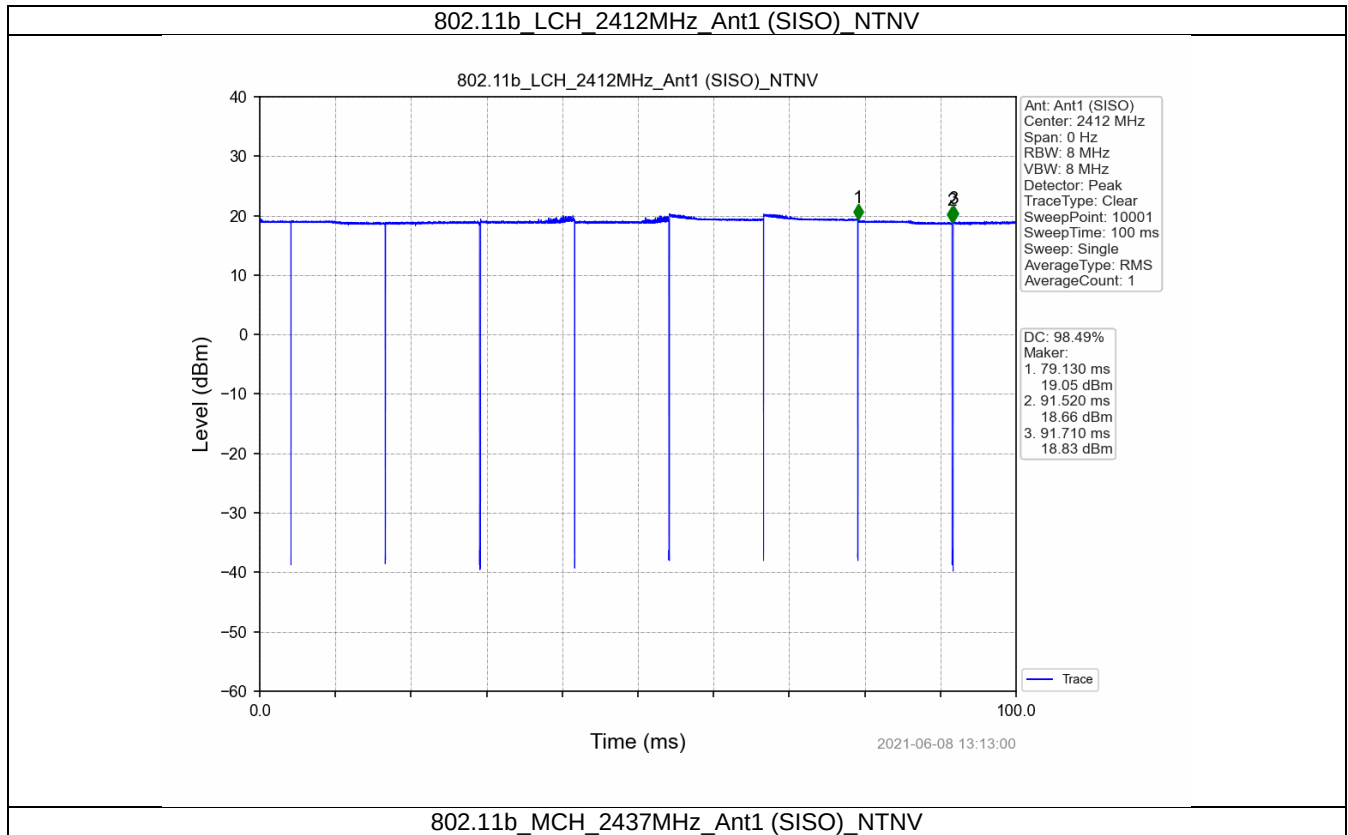
1.1 Ant1

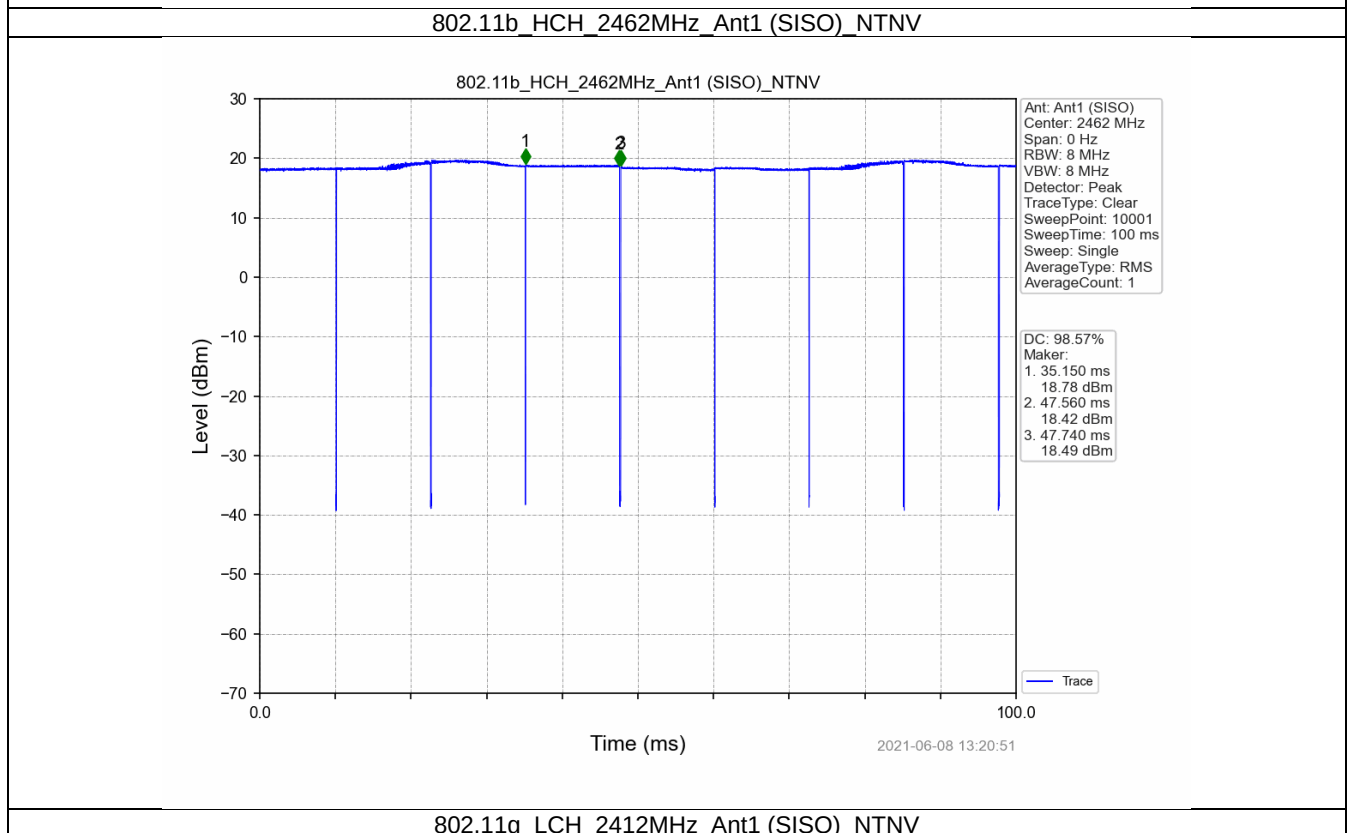
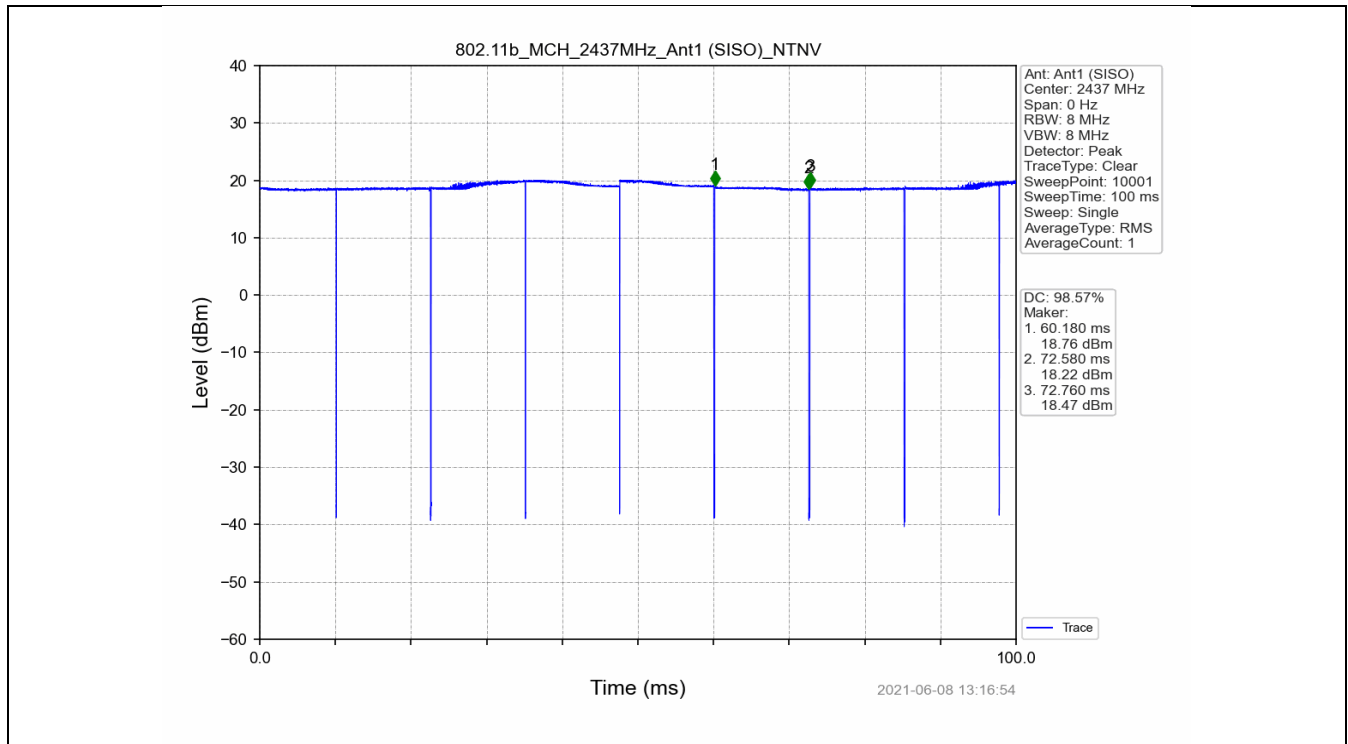
1.1.1 Test Result

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	/	/	12.39	12.58	98.49	0.07	1.11
		2437	/	/	12.40	12.58	98.57	0.06	0.79
		2462	/	/	12.41	12.59	98.57	0.06	1.11
802.11g	SISO	2412	/	/	2.06	2.22	93.19	0.31	4.31
		2437	/	/	2.06	2.19	94.06	0.27	4.05
		2462	/	/	2.06	2.21	93.48	0.29	4.78
802.11n (HT20)	MIMO	2412	/	/	1.92	2.09	91.73	0.37	6.41
		2437	/	/	1.92	2.08	92.03	0.36	5.50
		2462	/	/	1.92	2.09	91.63	0.38	6.30
802.11n (HT40)	MIMO	2422	/	/	0.94	1.11	85.17	0.70	10.96
		2437	/	/	0.94	1.09	86.58	0.63	6.92
		2452	/	/	0.94	1.12	84.48	0.73	11.63
Note1: Only for Report Use									

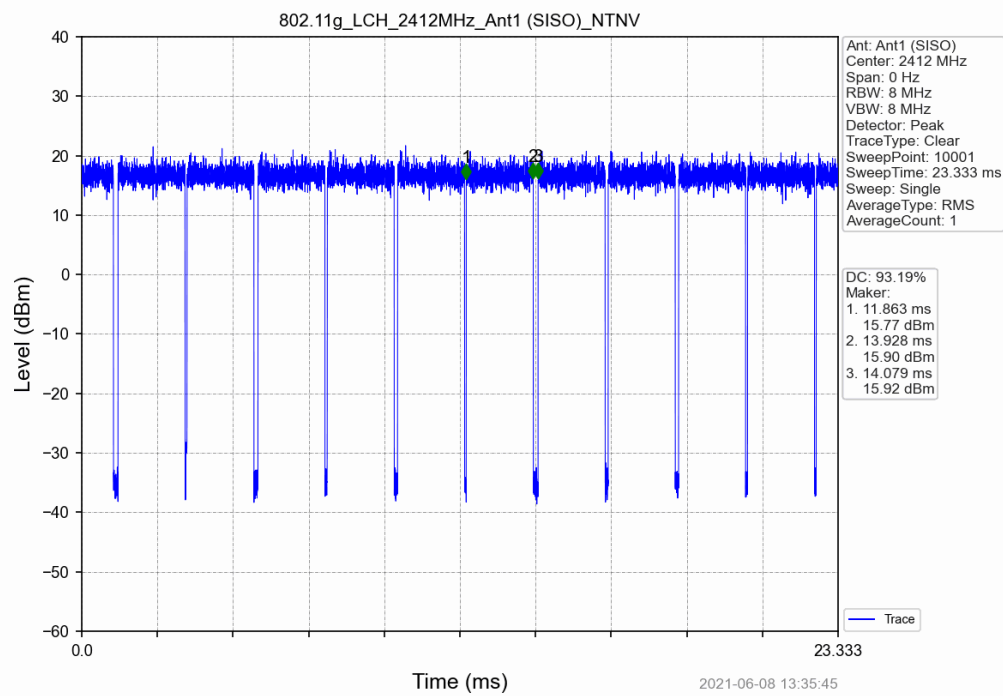


1.1.2 Test Graph

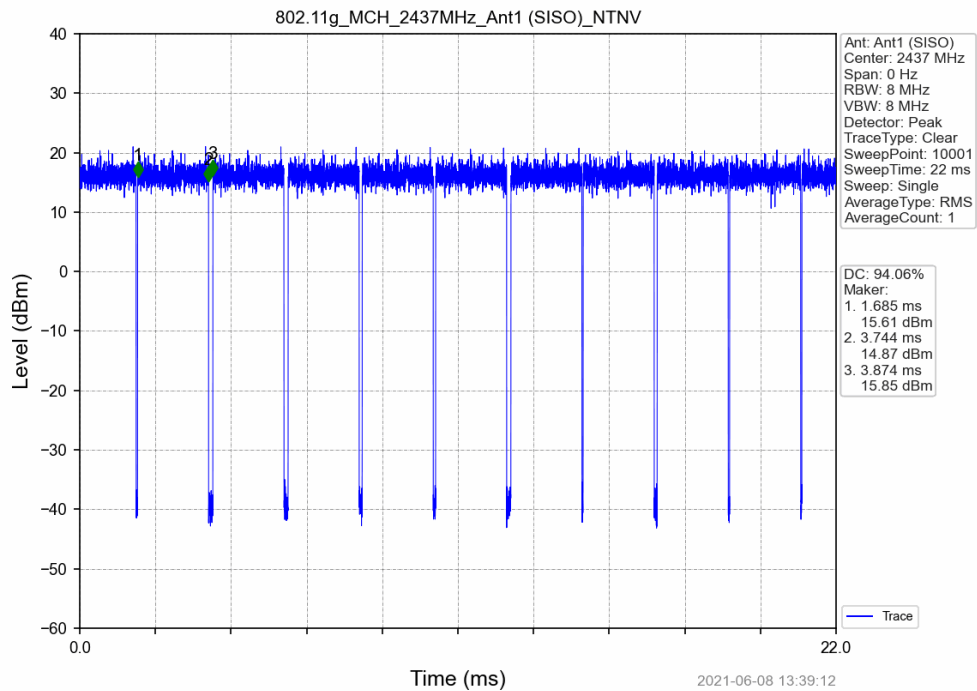




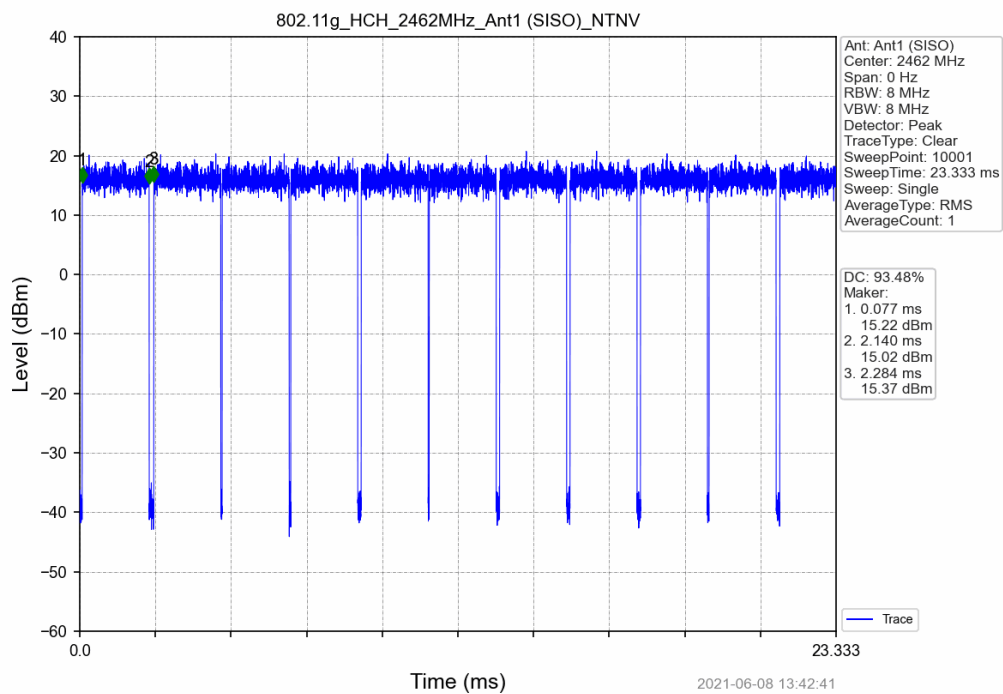
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

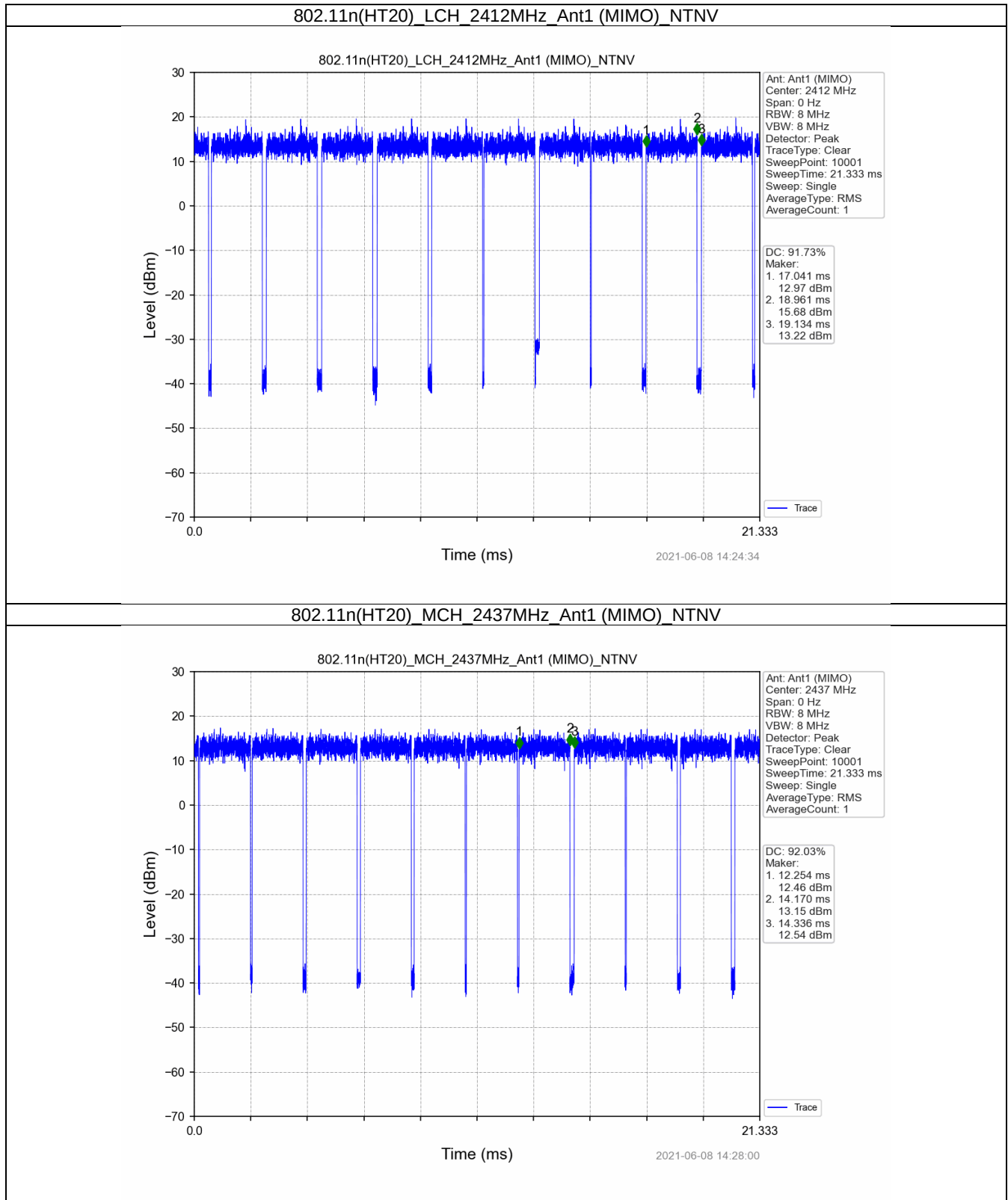


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

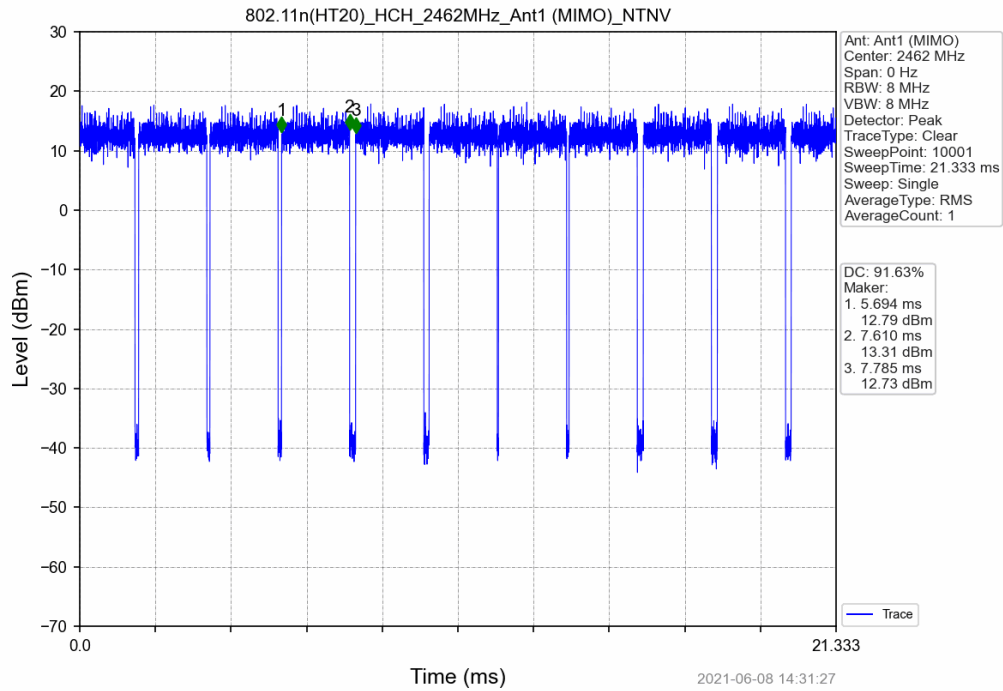


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

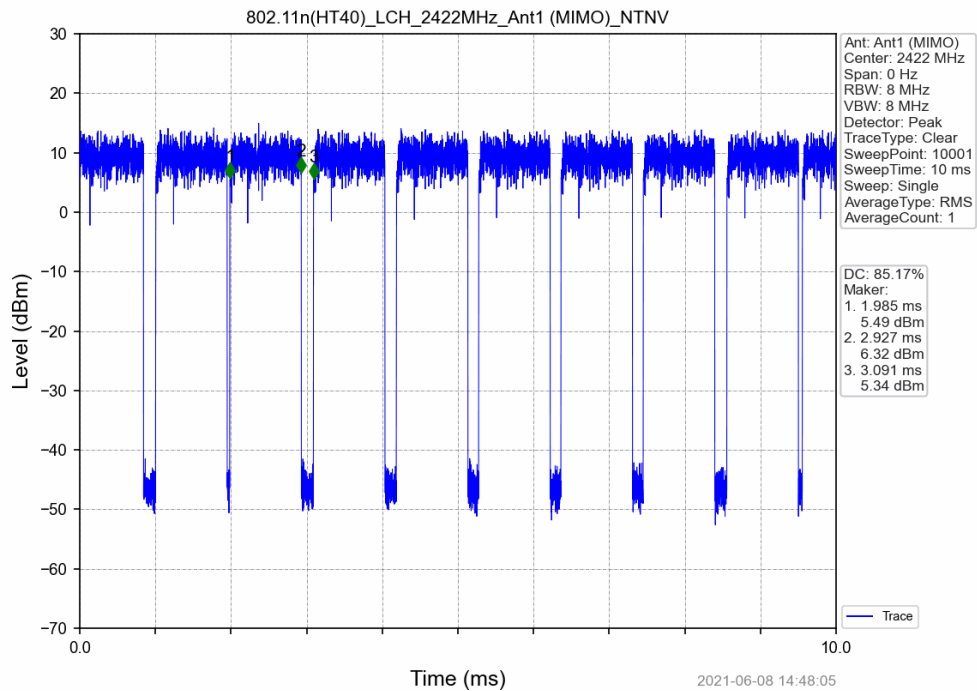




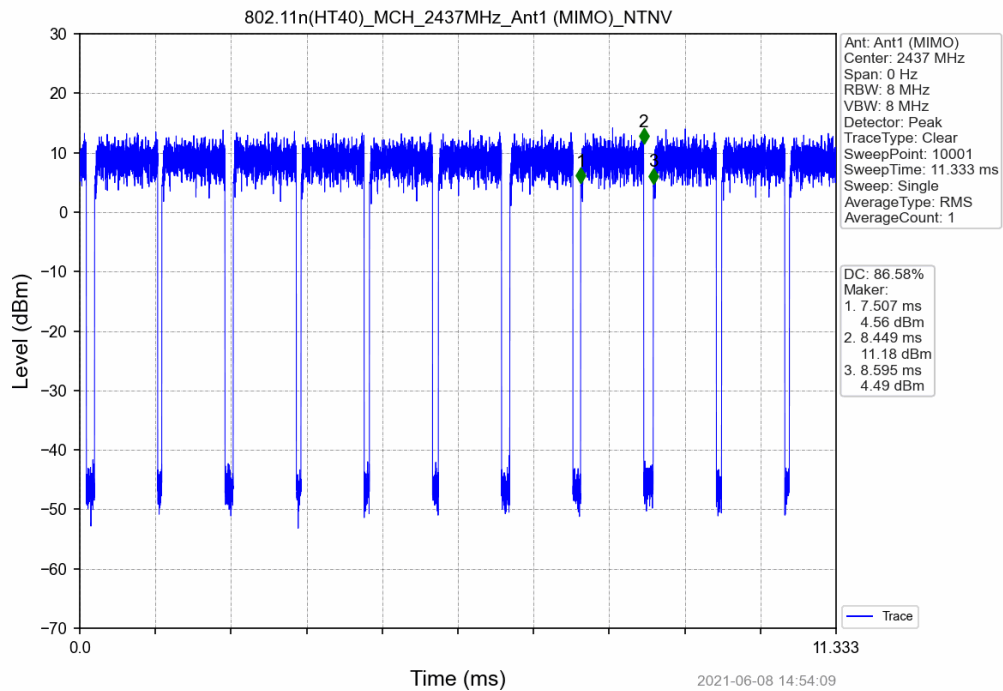
802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV



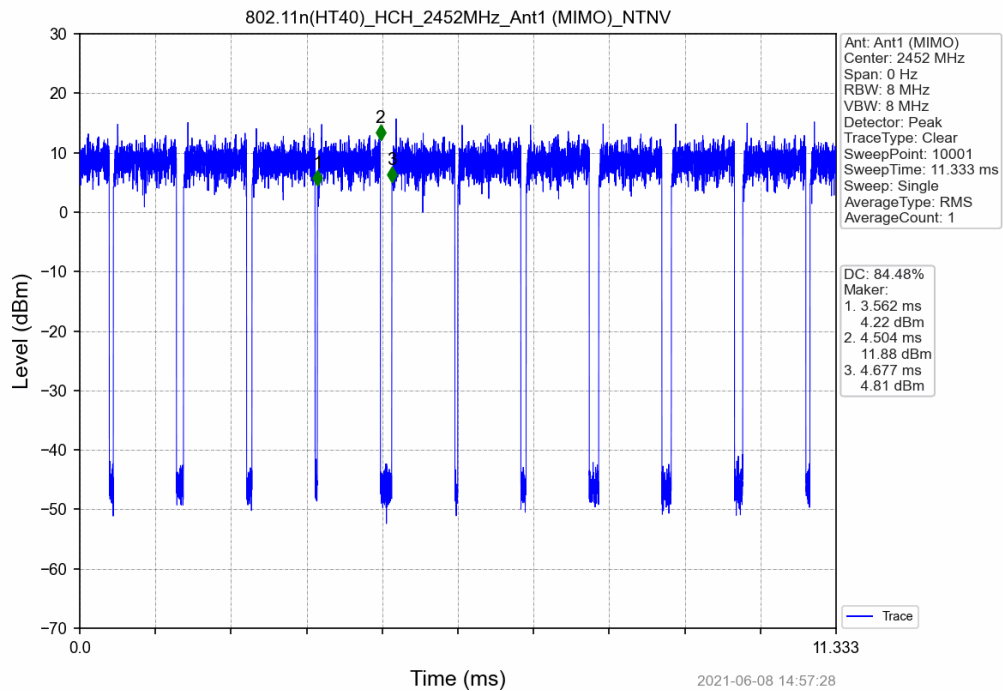
802.11n(HT40)_LCH_2422MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_NTNV





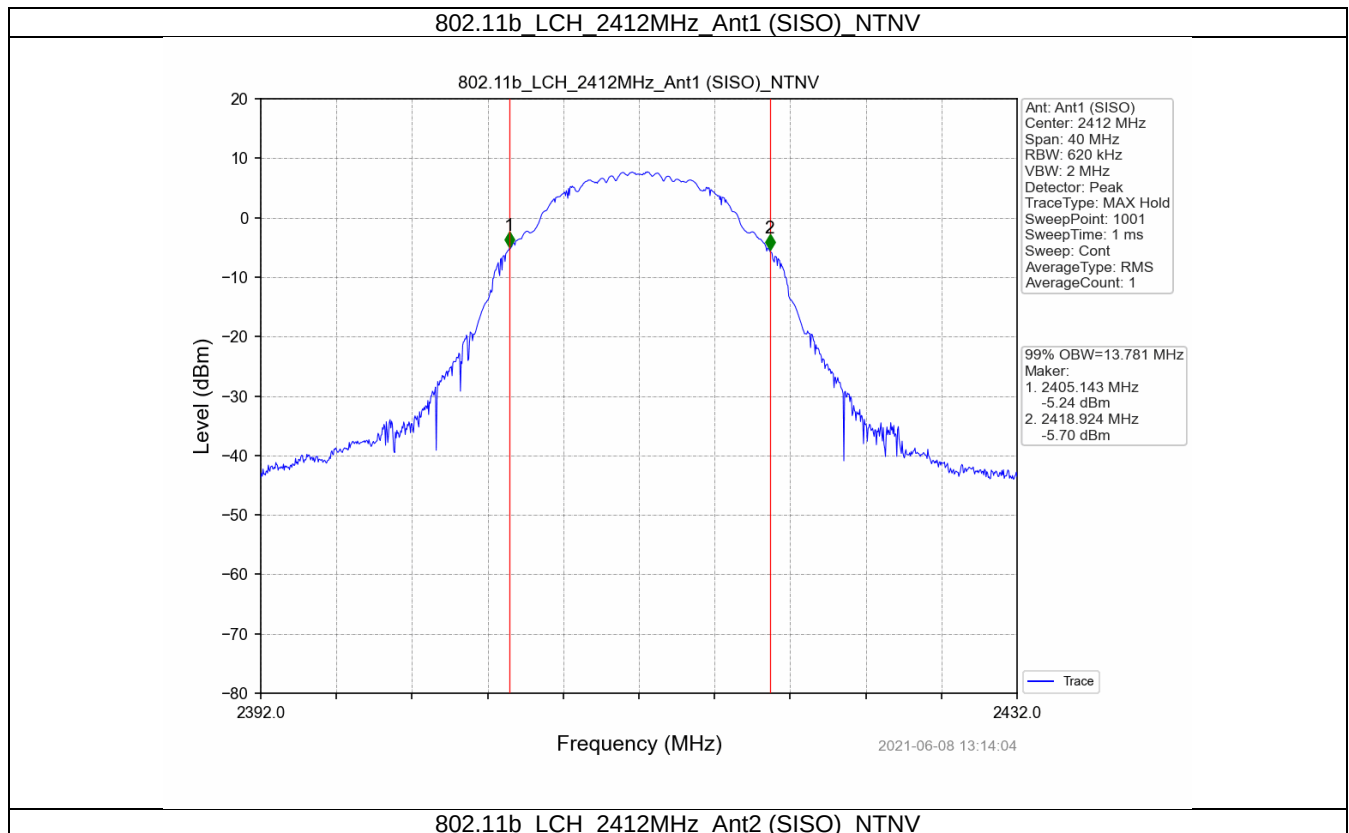
2. Bandwidth

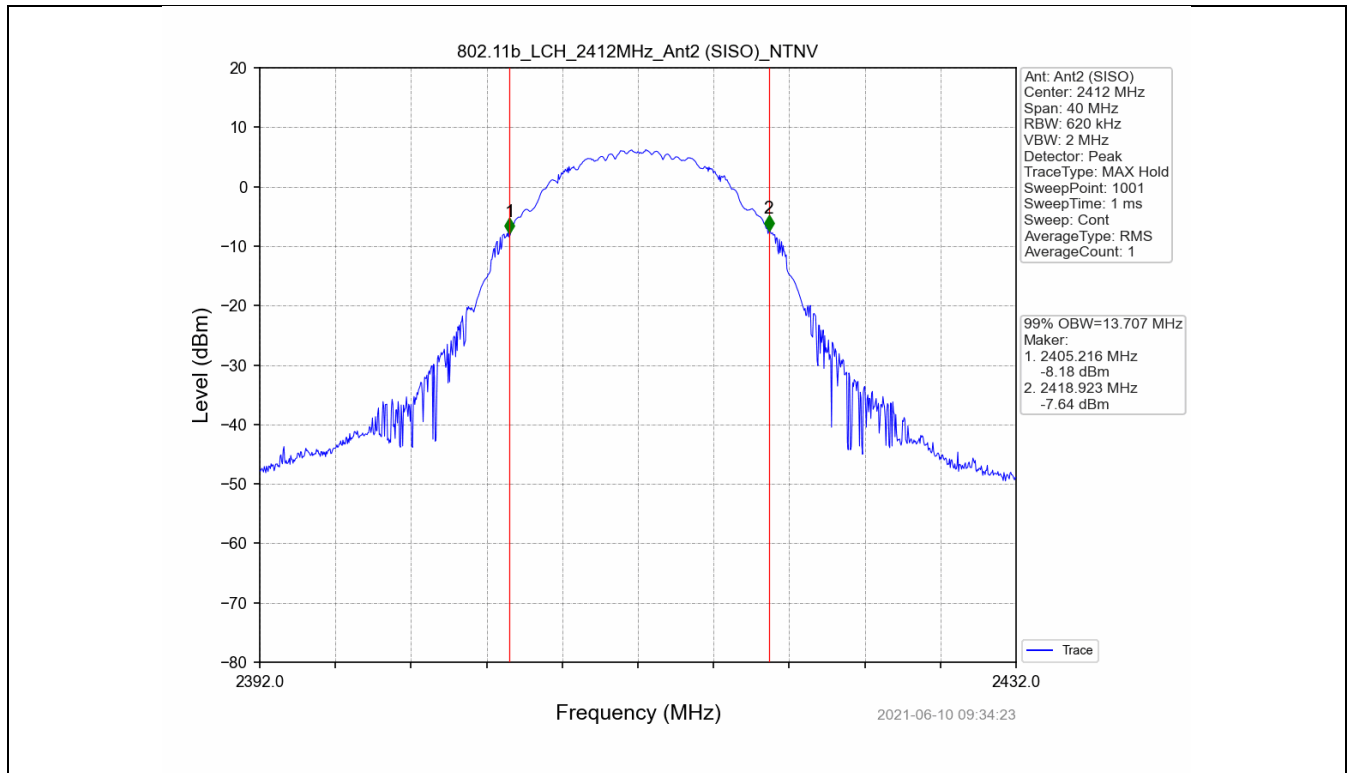
2.1 OBW

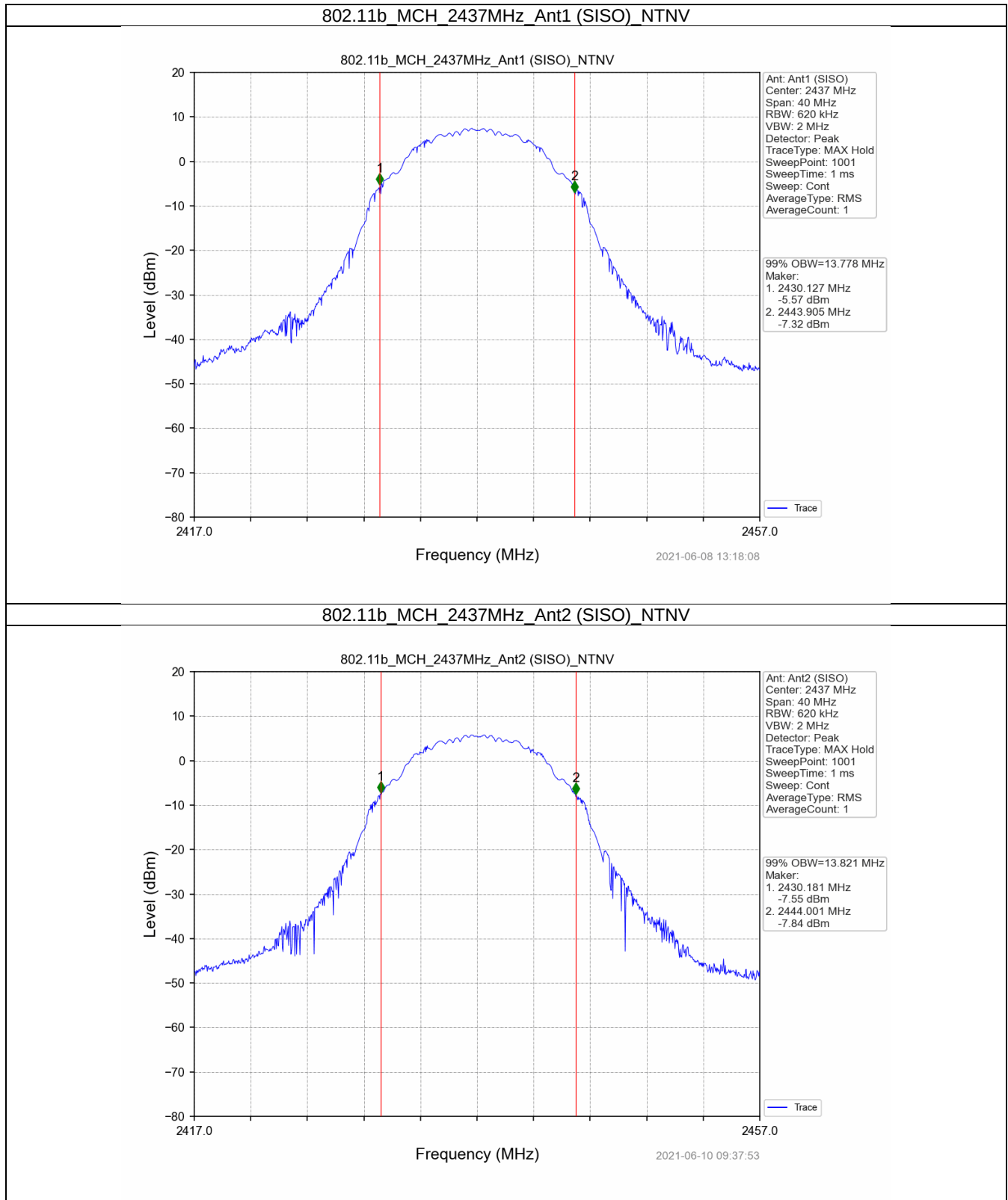
2.1.1 Test Result

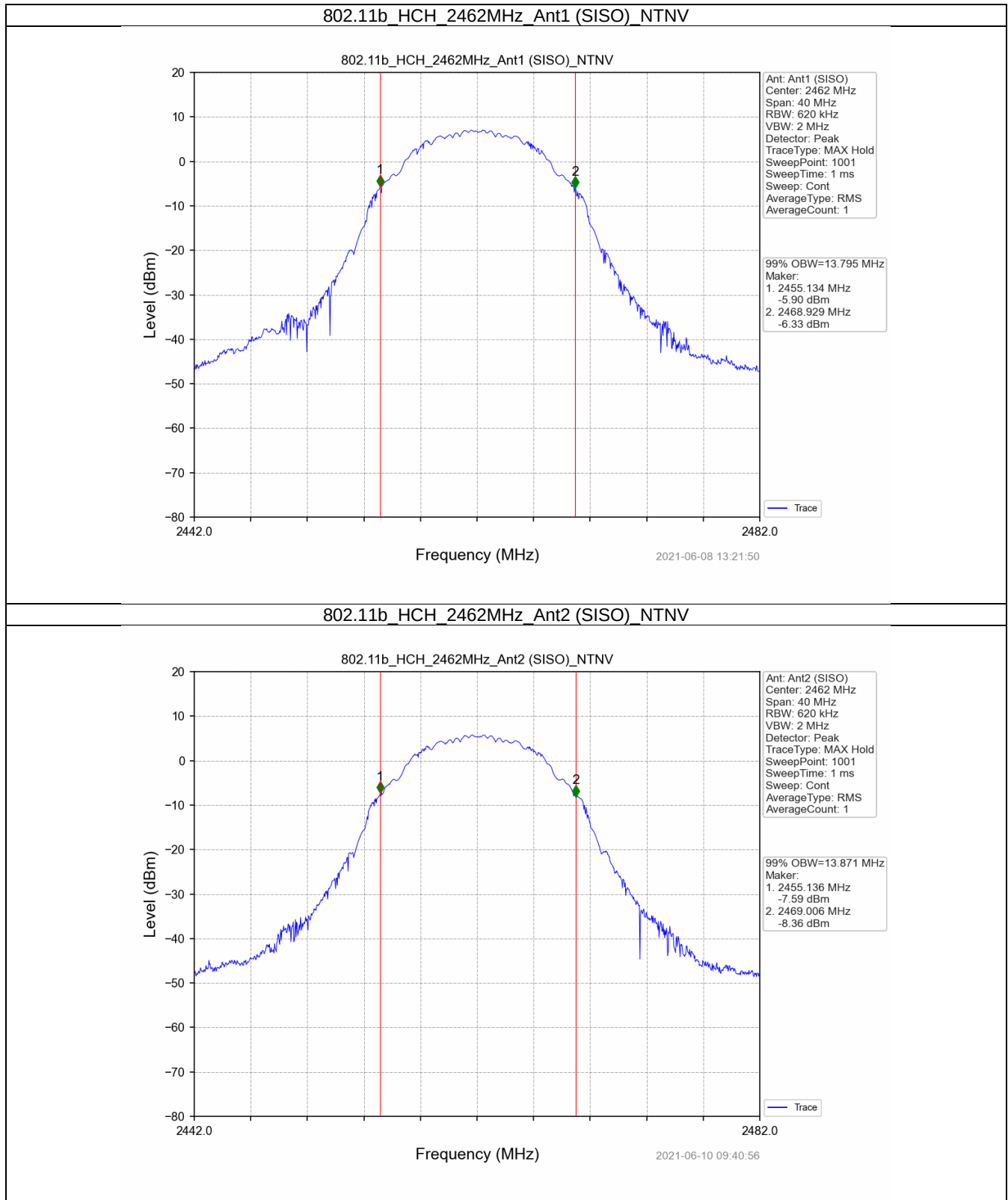
Mode	TX Type	Frequency (MHz)	RU	RU Pos	99% Occupied Bandwidth (MHz)		Limit (MHz)	Verdict
					Ant1	Ant2		
802.11b	SISO	2412	/	/	13.781	13.707	/	Note1
		2437	/	/	13.778	13.821	/	Note1
		2462	/	/	13.795	13.871	/	Note1
802.11g	SISO	2412	/	/	17.476	17.330	/	Note1
		2437	/	/	17.248	17.296	/	Note1
		2462	/	/	17.279	17.414	/	Note1
802.11n (HT20)	MIMO	2412	/	/	18.100	18.175	/	Note1
		2437	/	/	18.297	18.267	/	Note1
		2462	/	/	18.258	18.317	/	Note1
802.11n (HT40)	MIMO	2422	/	/	37.086	37.347	/	Note1
		2437	/	/	37.572	37.350	/	Note1
		2452	/	/	37.405	37.420	/	Note1
Note1: Only for Report Use								

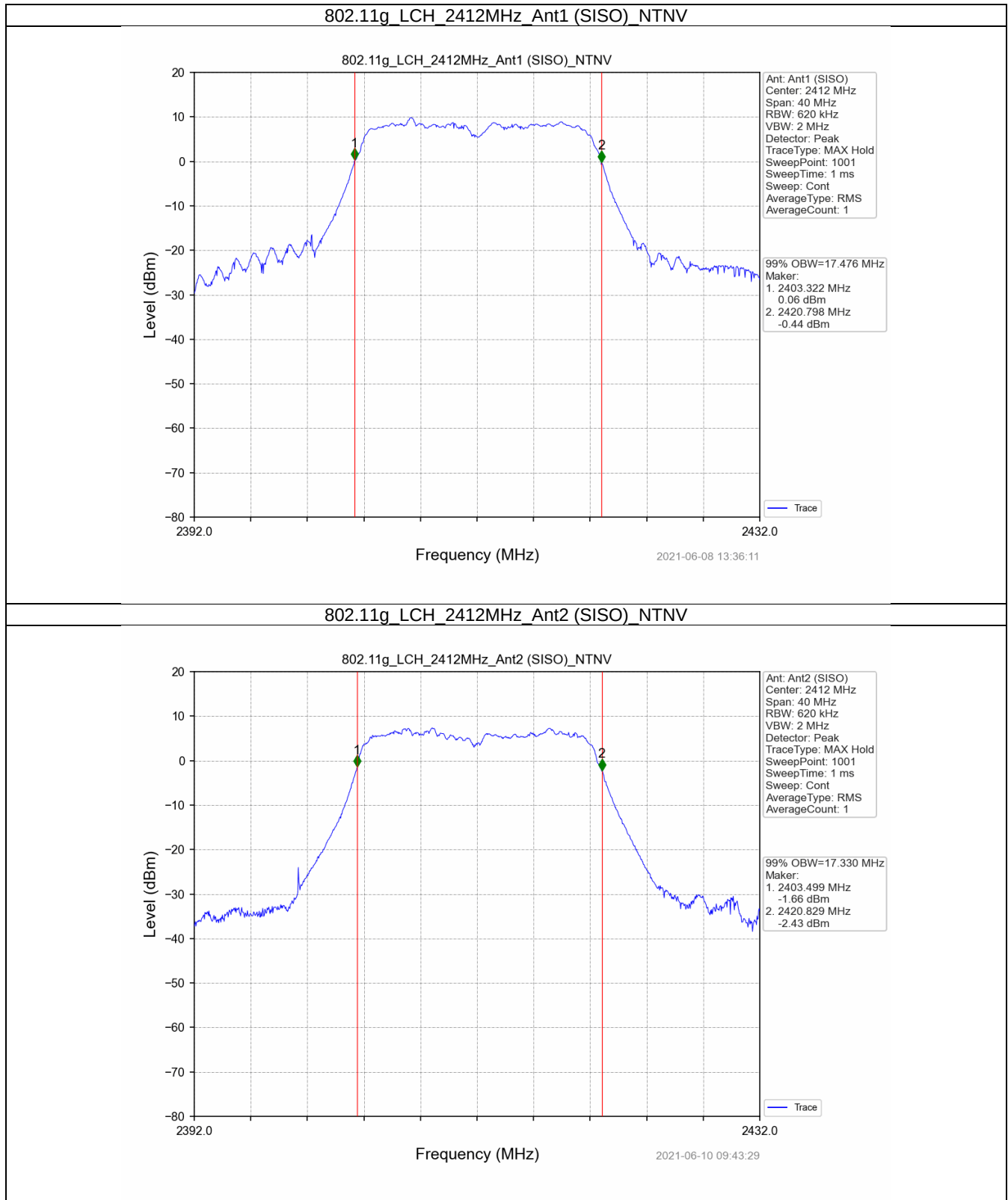
2.1.2 Test Graph

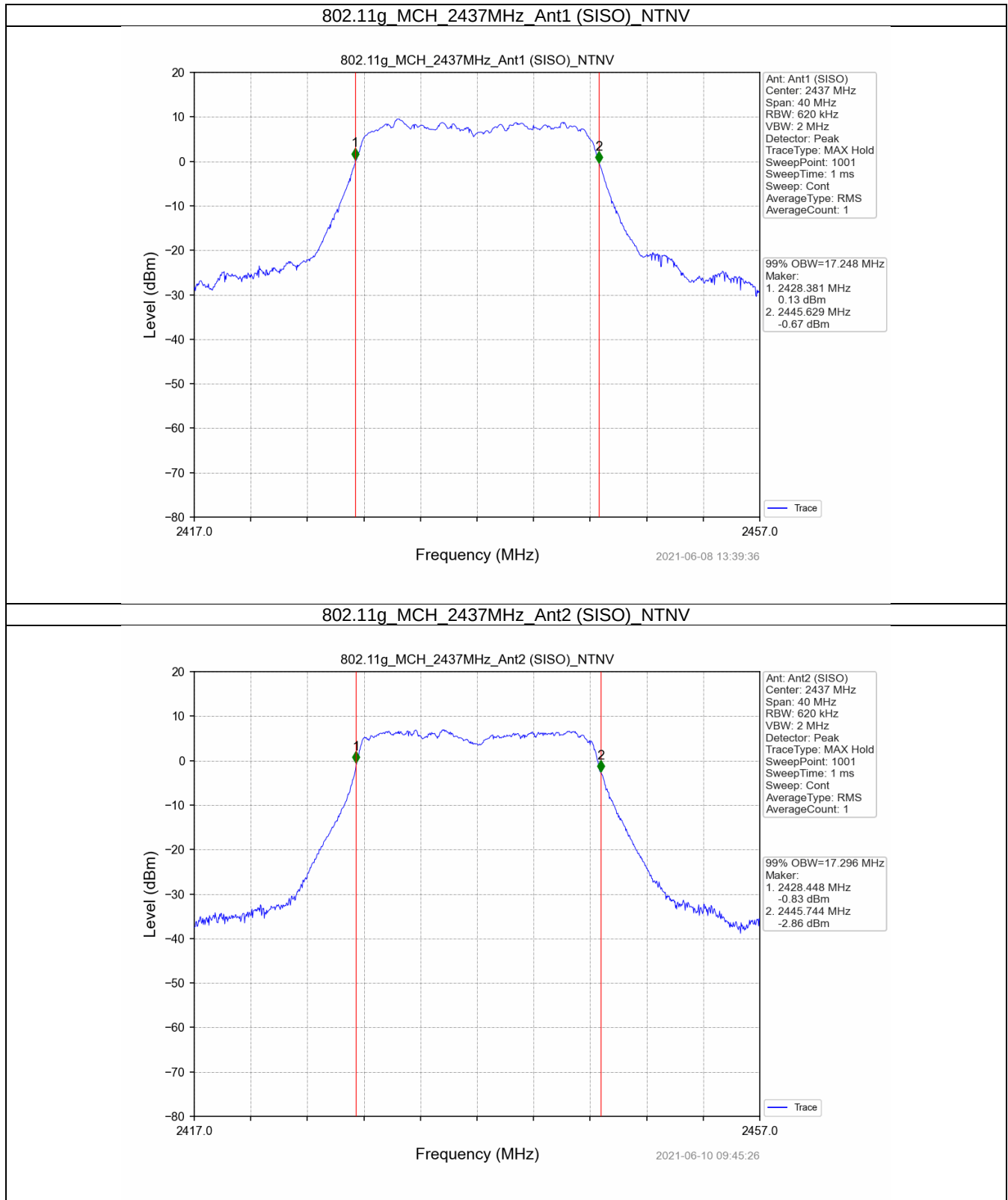


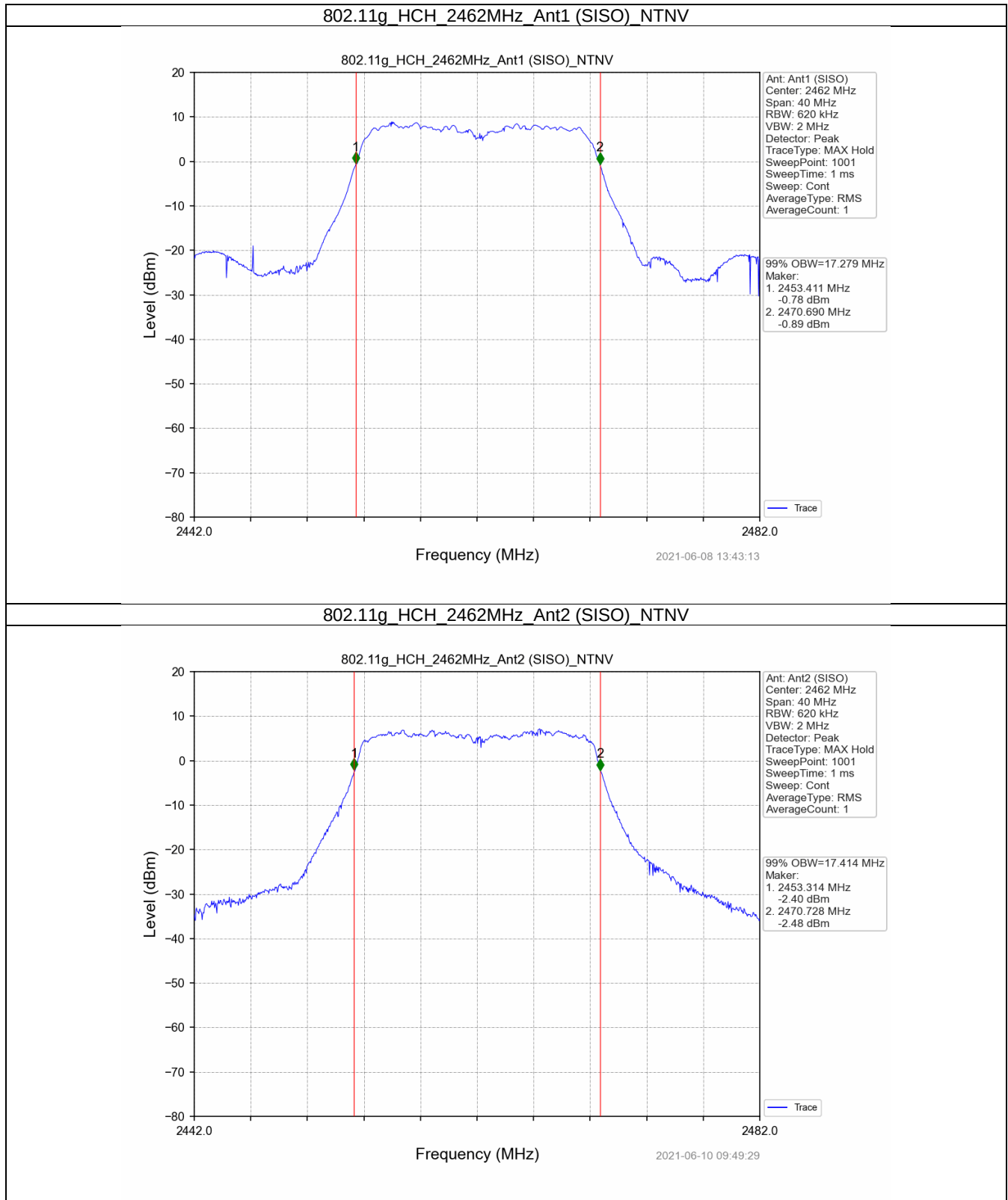


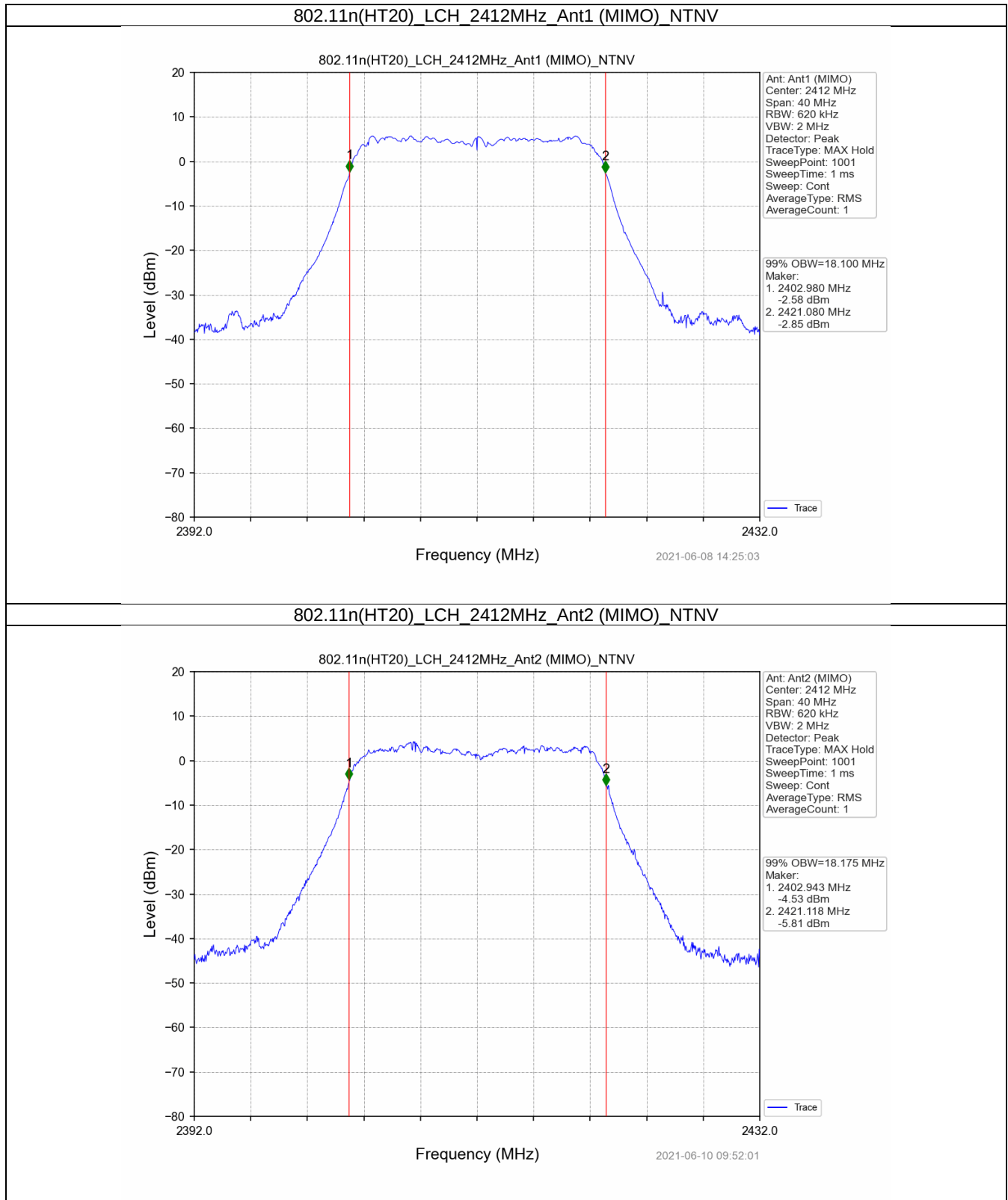


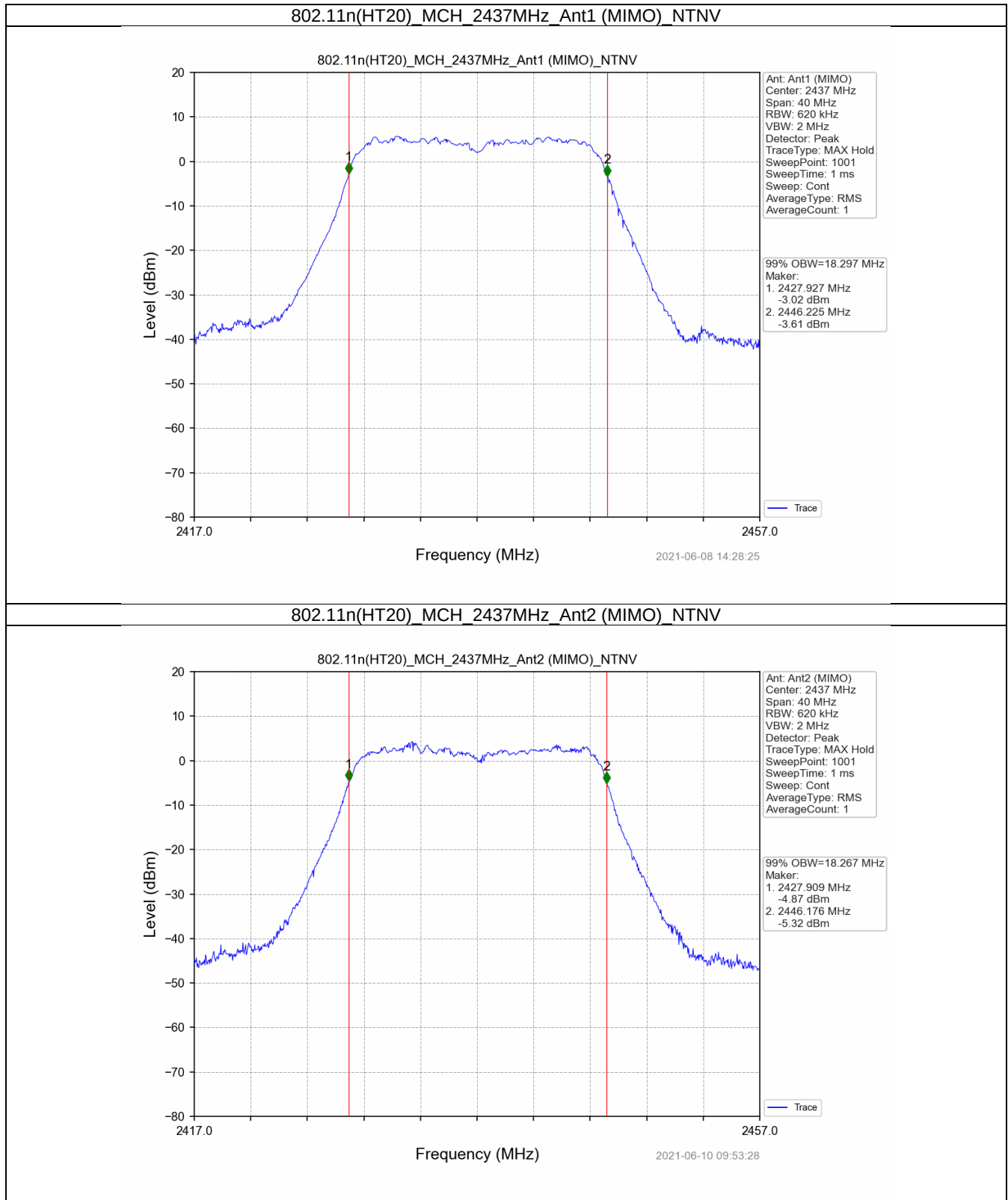


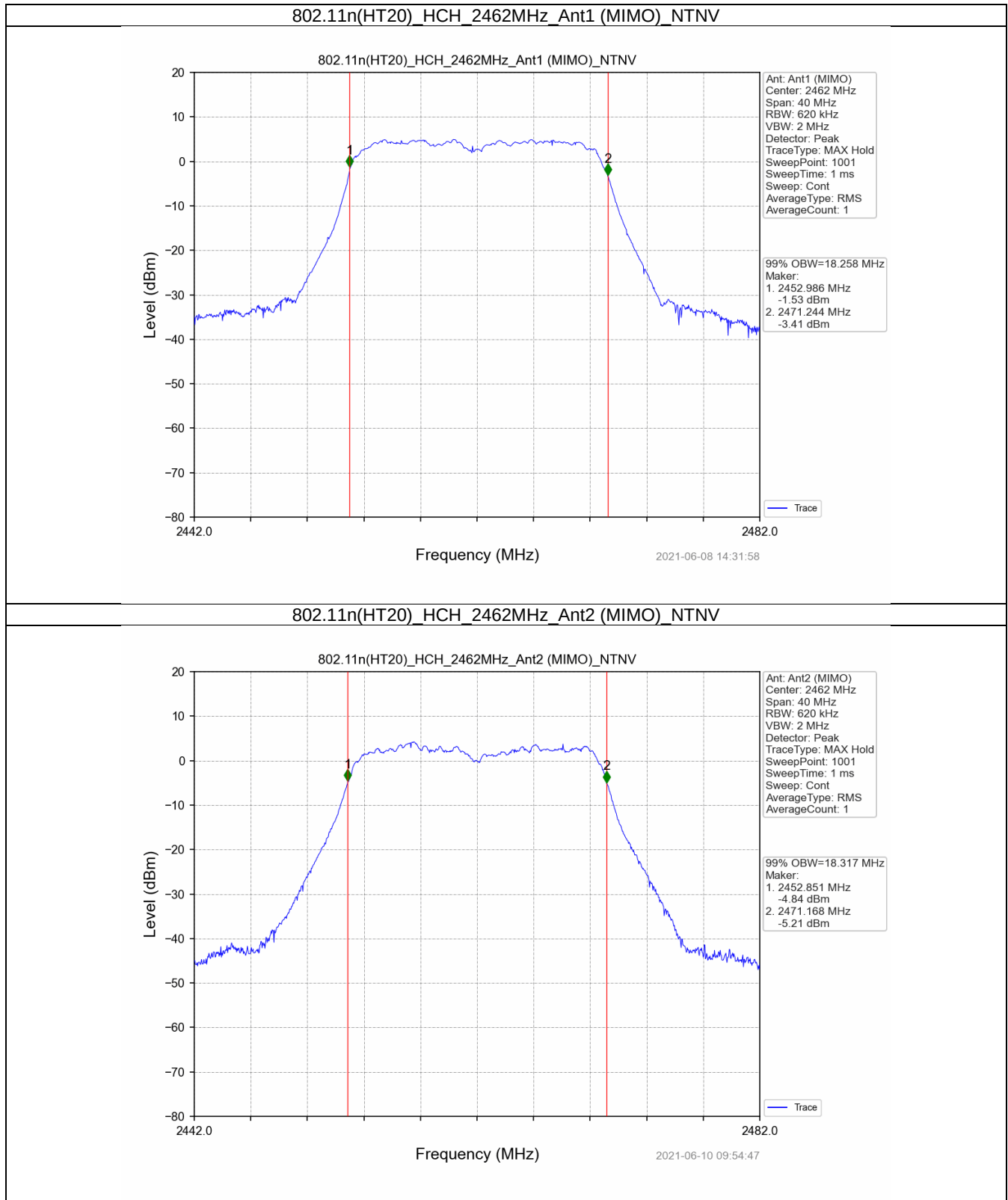


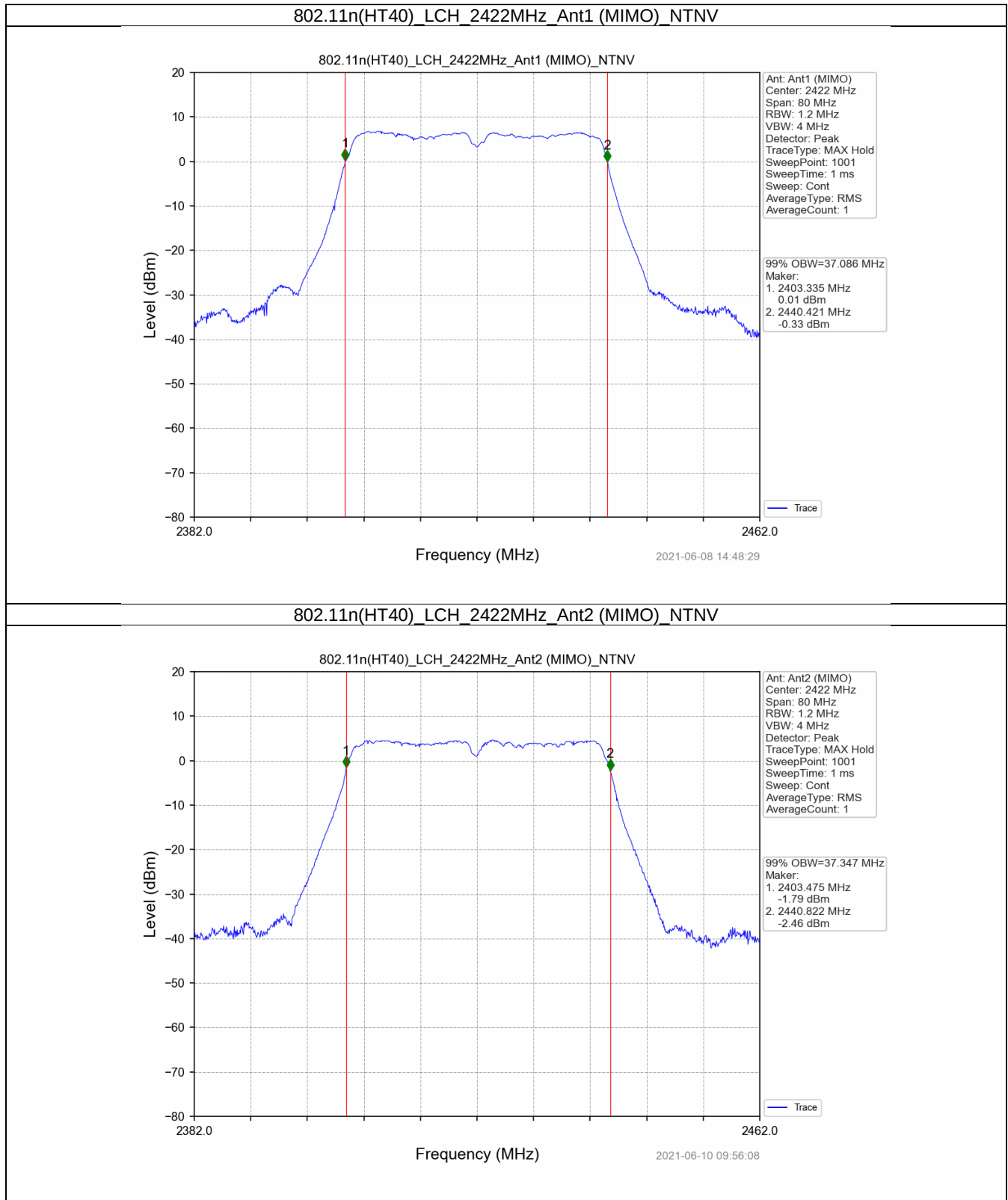


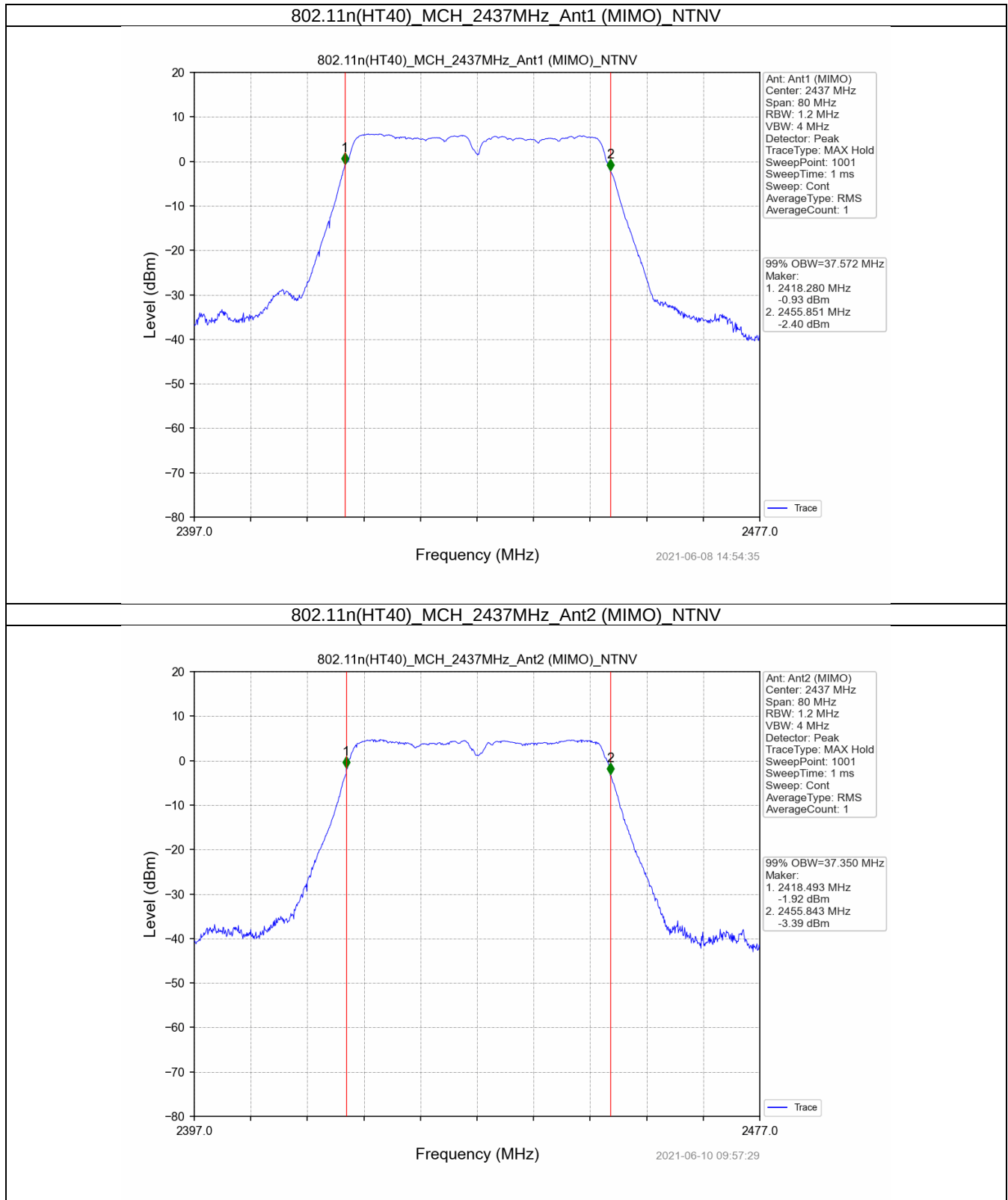


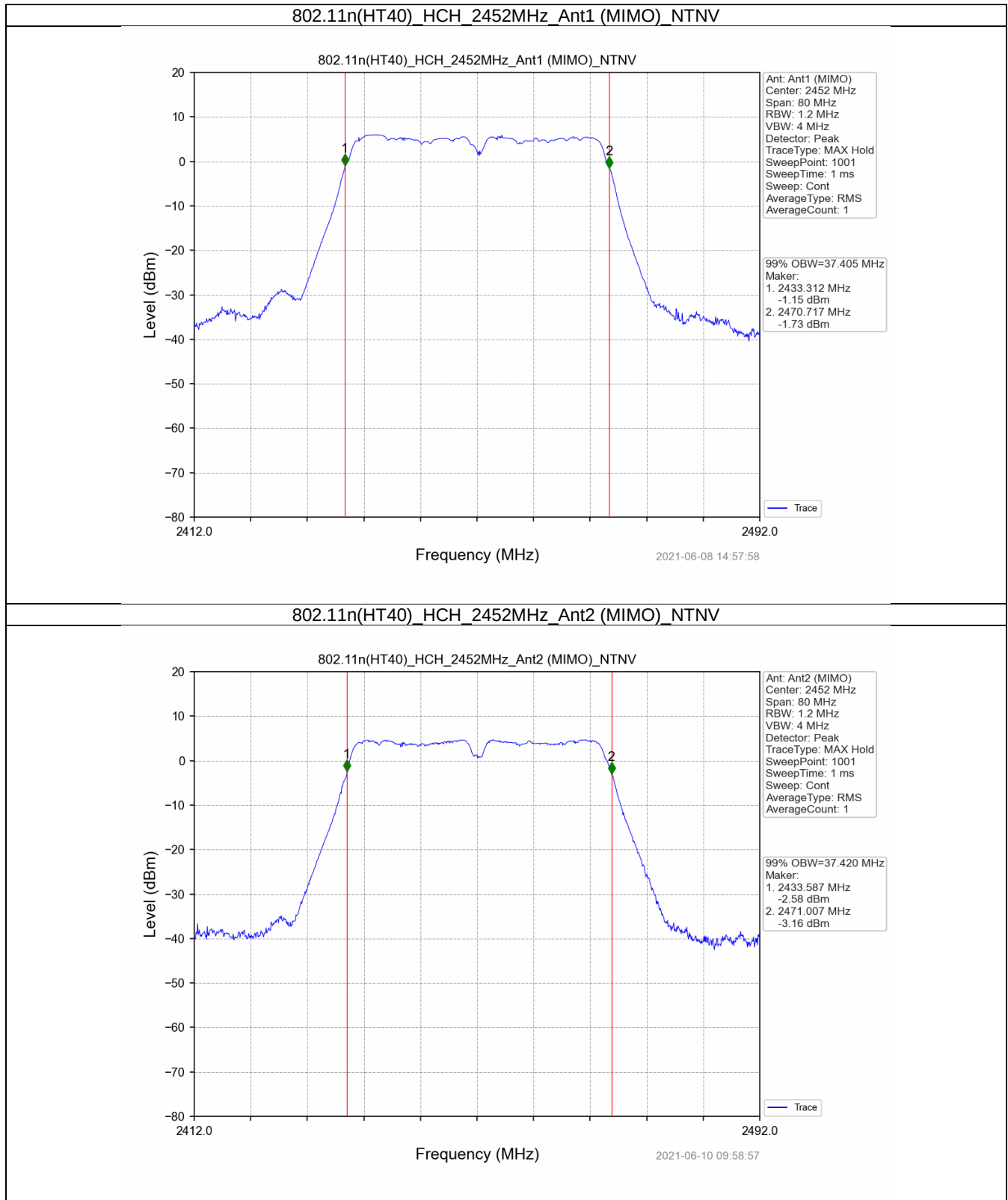










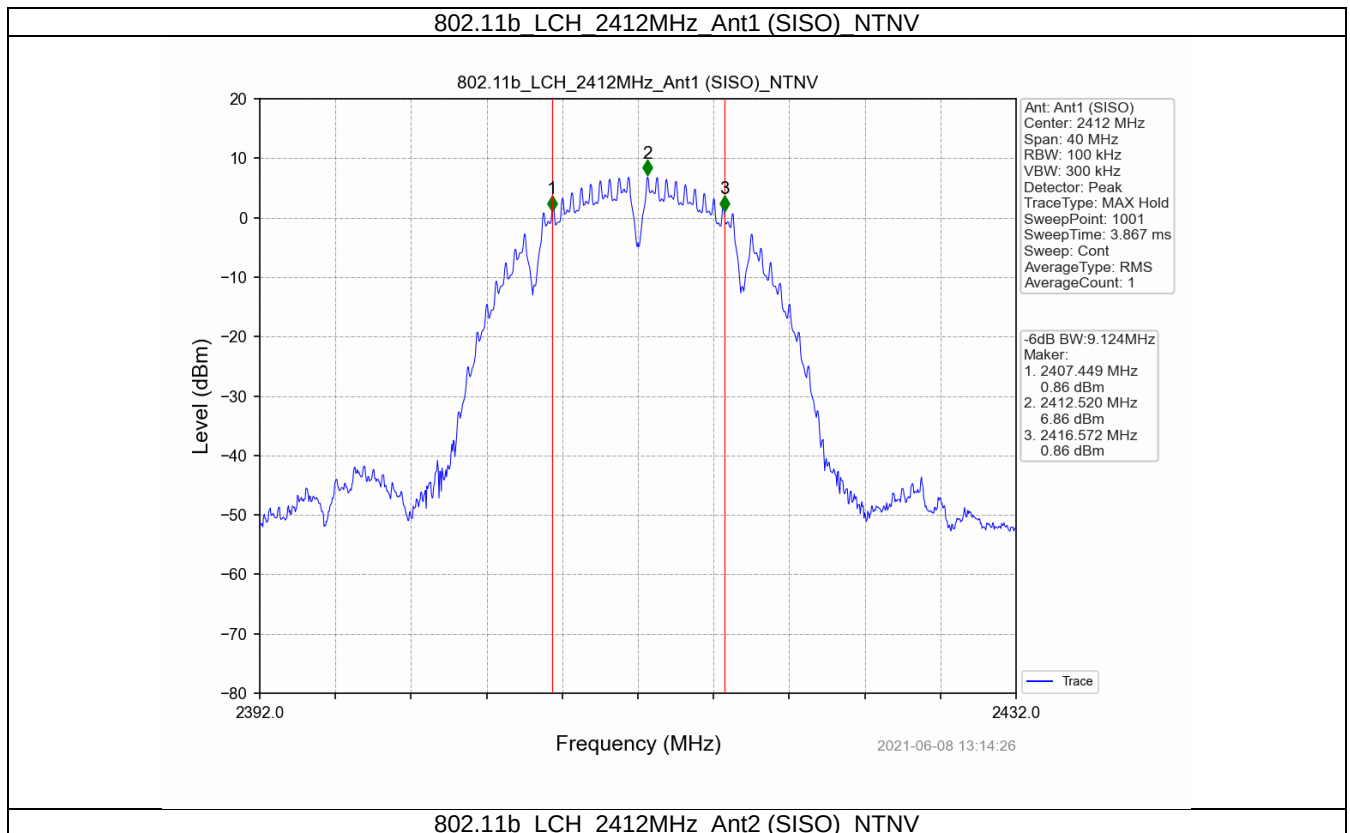


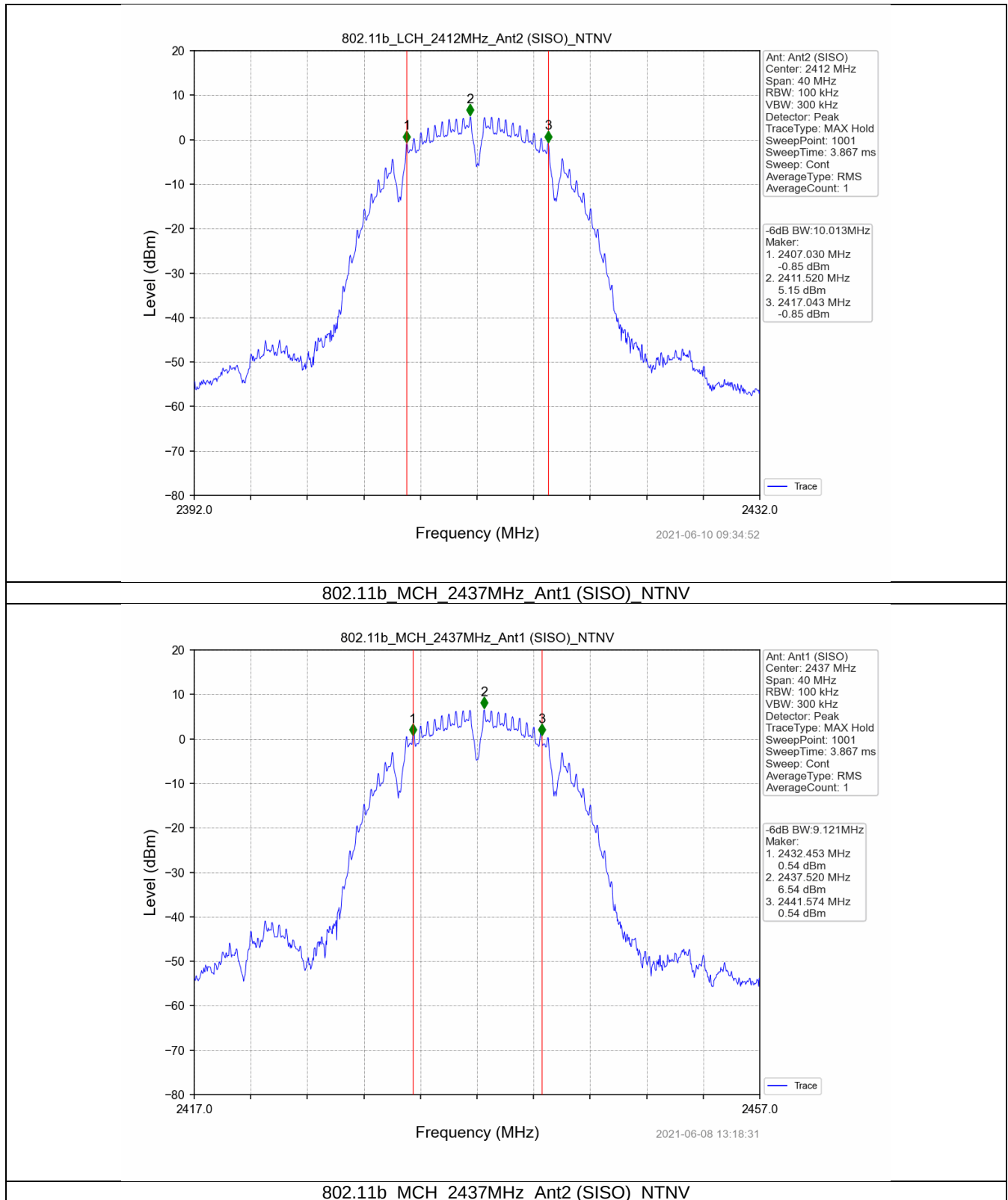
2.2 XDB

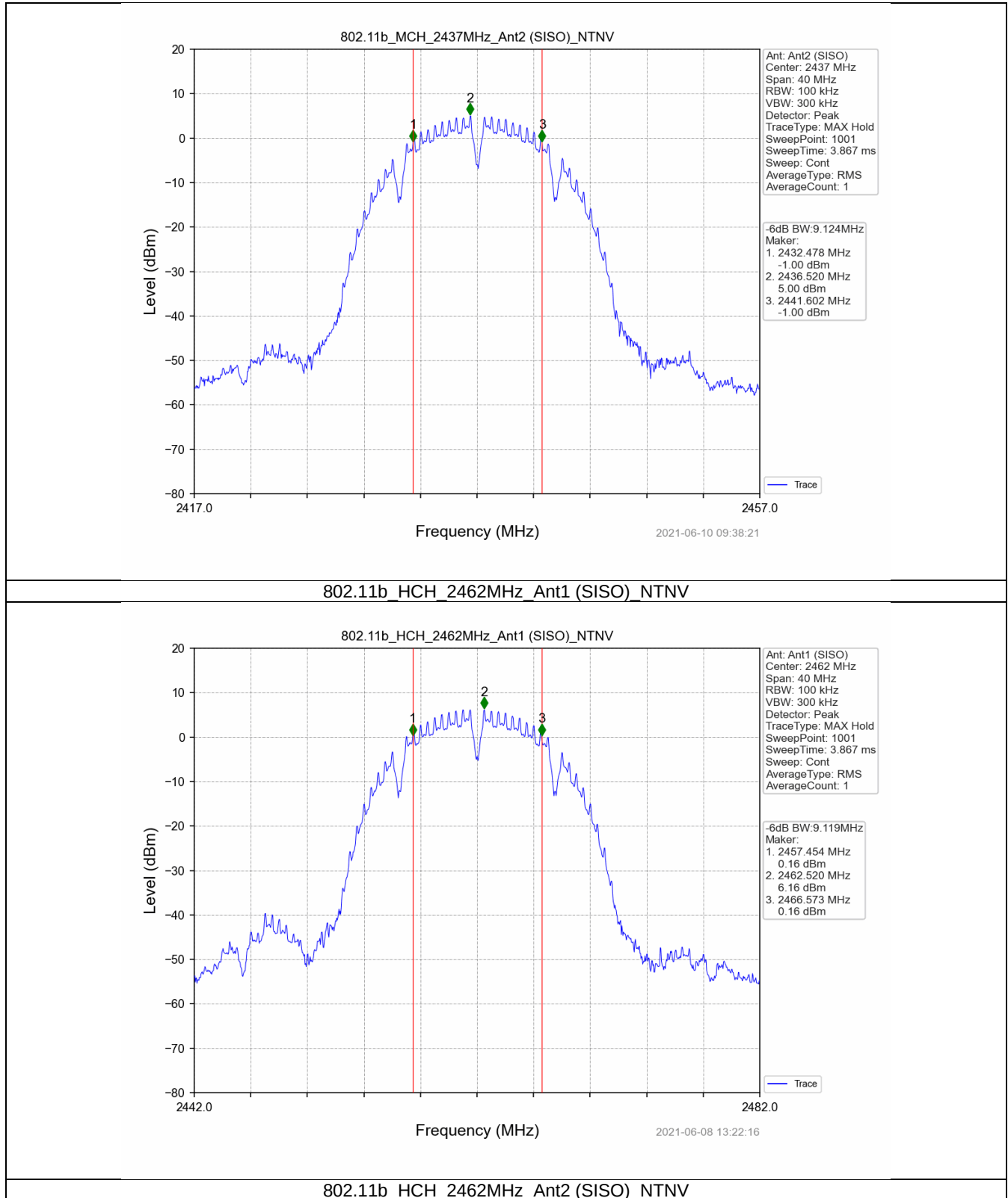
2.2.1 Test Result

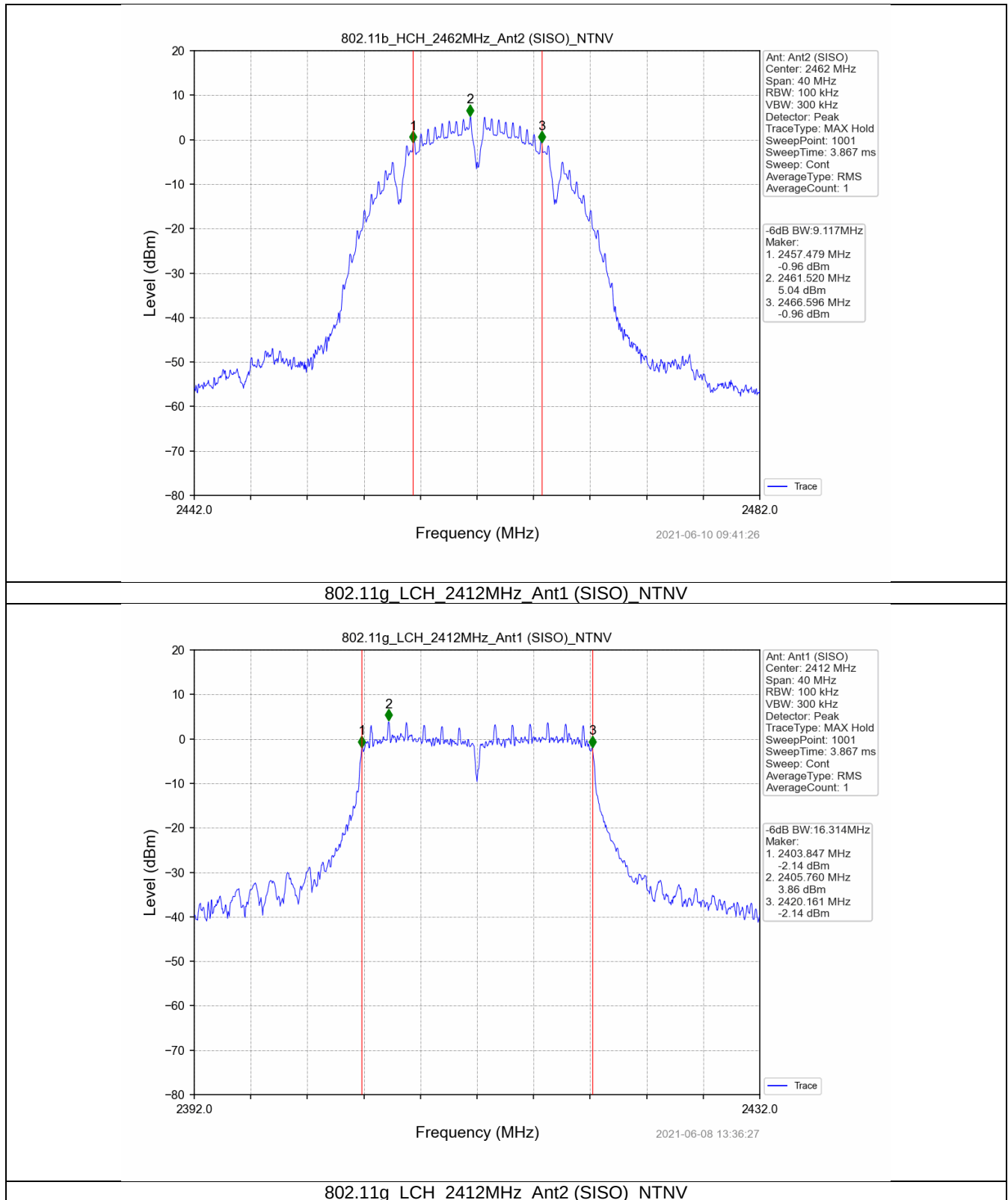
Mode	TX Type	Frequency (MHz)	RU	RU Pos	6dB Bandwidth (MHz)		Limit (MHz)	Verdict
					Ant1	Ant2		
802.11b	SISO	2412	/	/	9.124	10.013	≥ 0.5	Pass
		2437	/	/	9.121	9.124	≥ 0.5	Pass
		2462	/	/	9.119	9.117	≥ 0.5	Pass
802.11g	SISO	2412	/	/	16.314	16.362	≥ 0.5	Pass
		2437	/	/	16.324	16.368	≥ 0.5	Pass
		2462	/	/	16.322	16.366	≥ 0.5	Pass
802.11n (HT20)	MIMO	2412	/	/	16.586	16.939	≥ 0.5	Pass
		2437	/	/	16.933	17.072	≥ 0.5	Pass
		2462	/	/	16.965	16.951	≥ 0.5	Pass
802.11n (HT40)	MIMO	2422	/	/	35.894	35.777	≥ 0.5	Pass
		2437	/	/	35.605	35.898	≥ 0.5	Pass
		2452	/	/	35.609	36.090	≥ 0.5	Pass

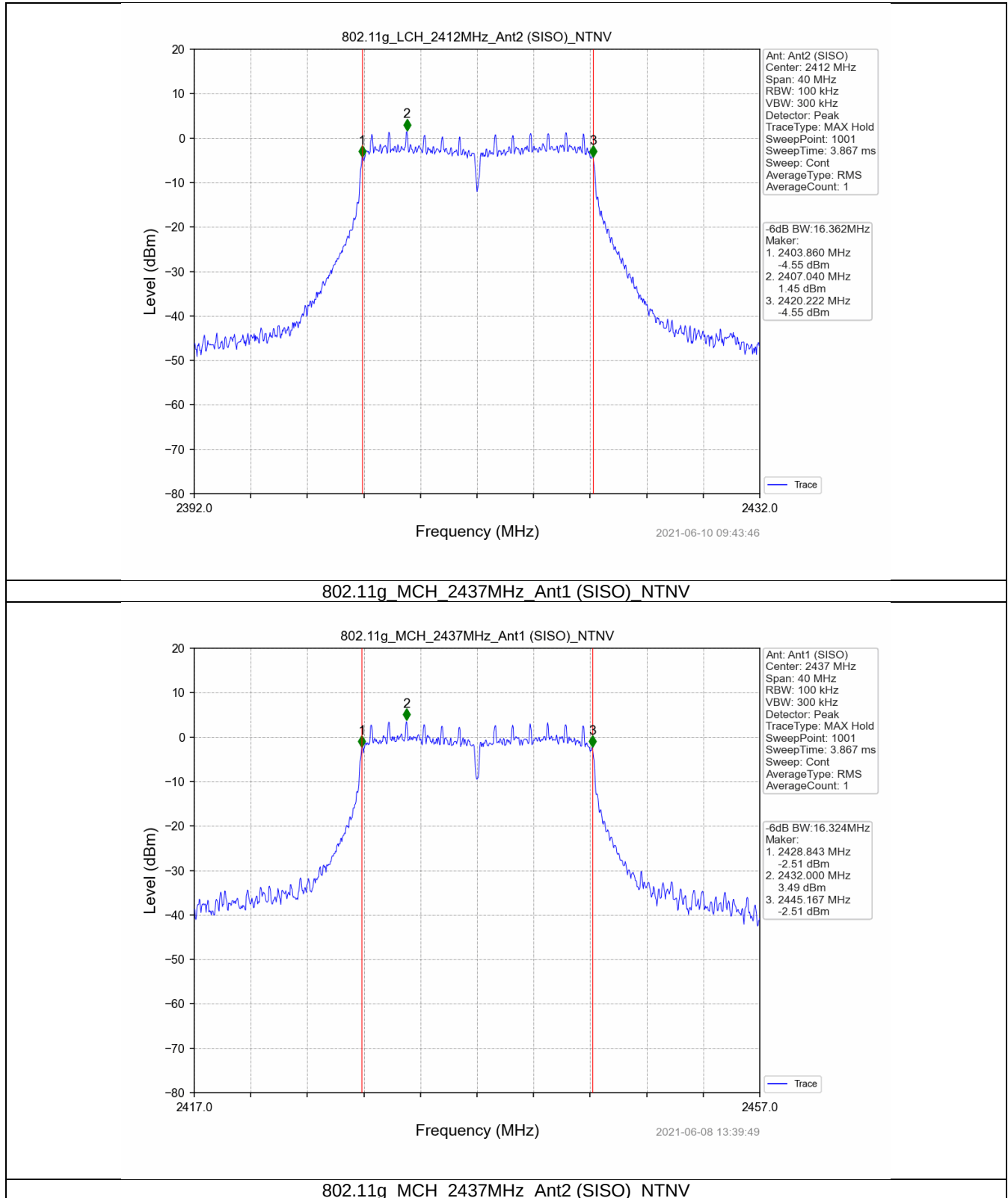
2.2.2 Test Graph

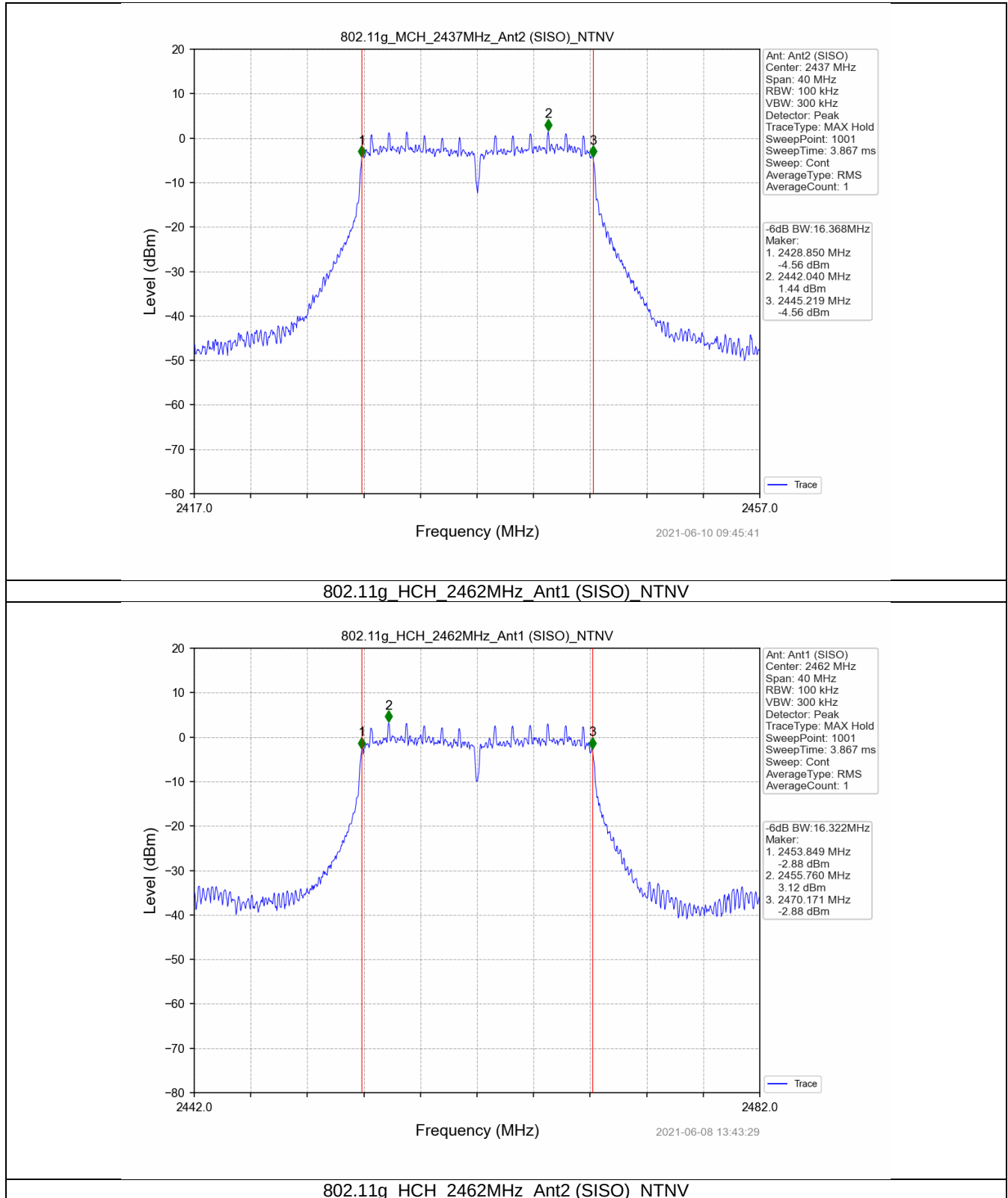


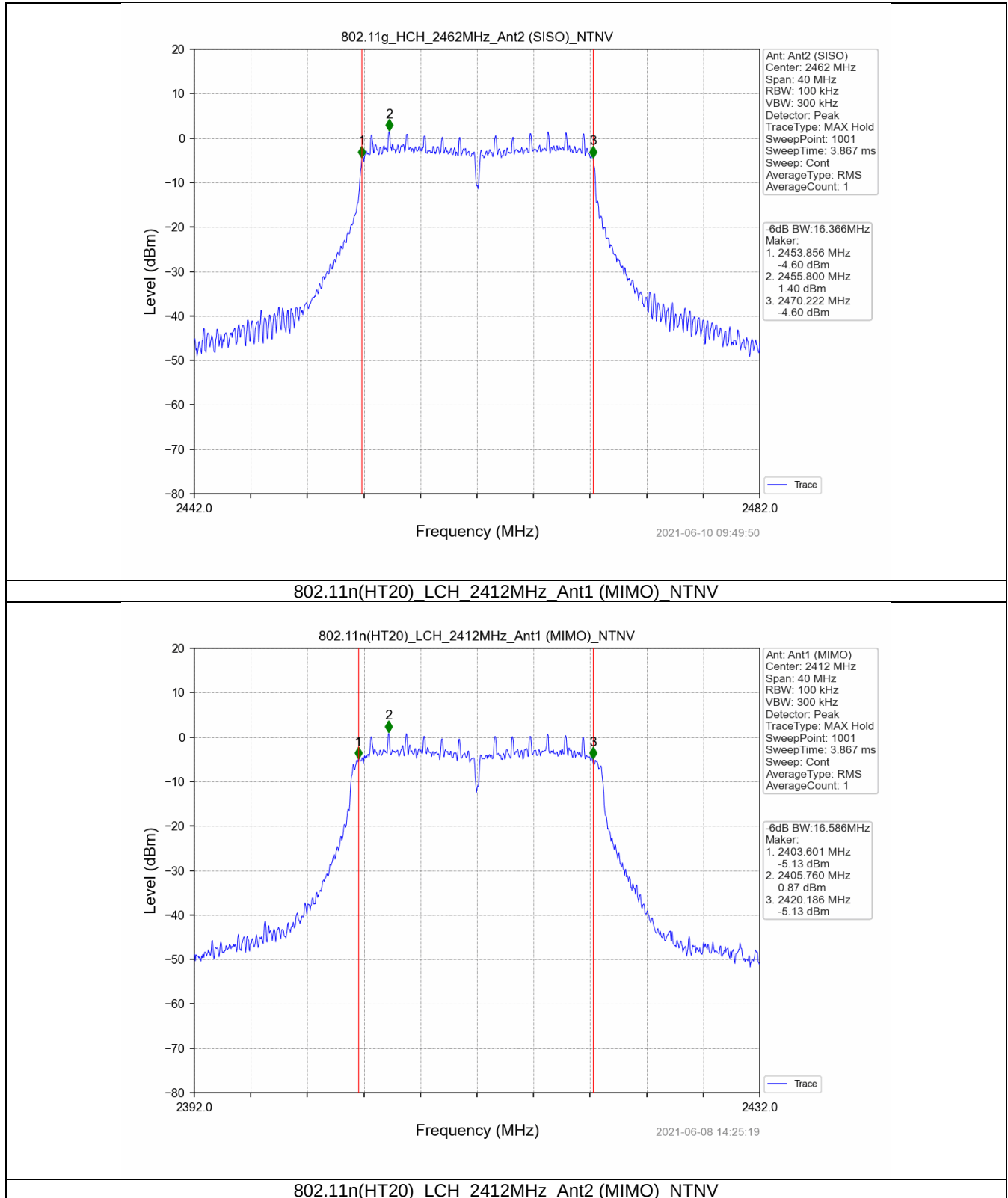


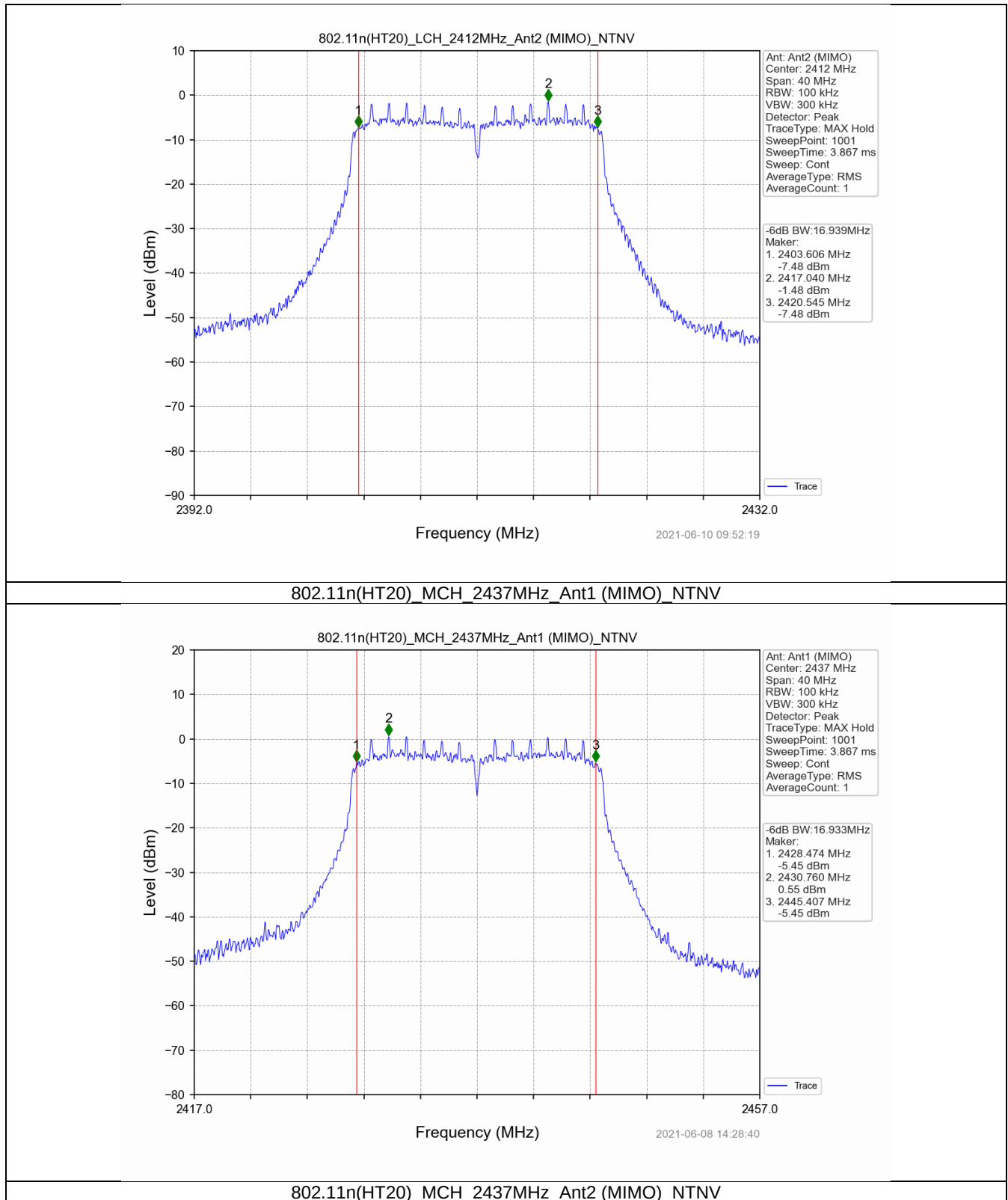


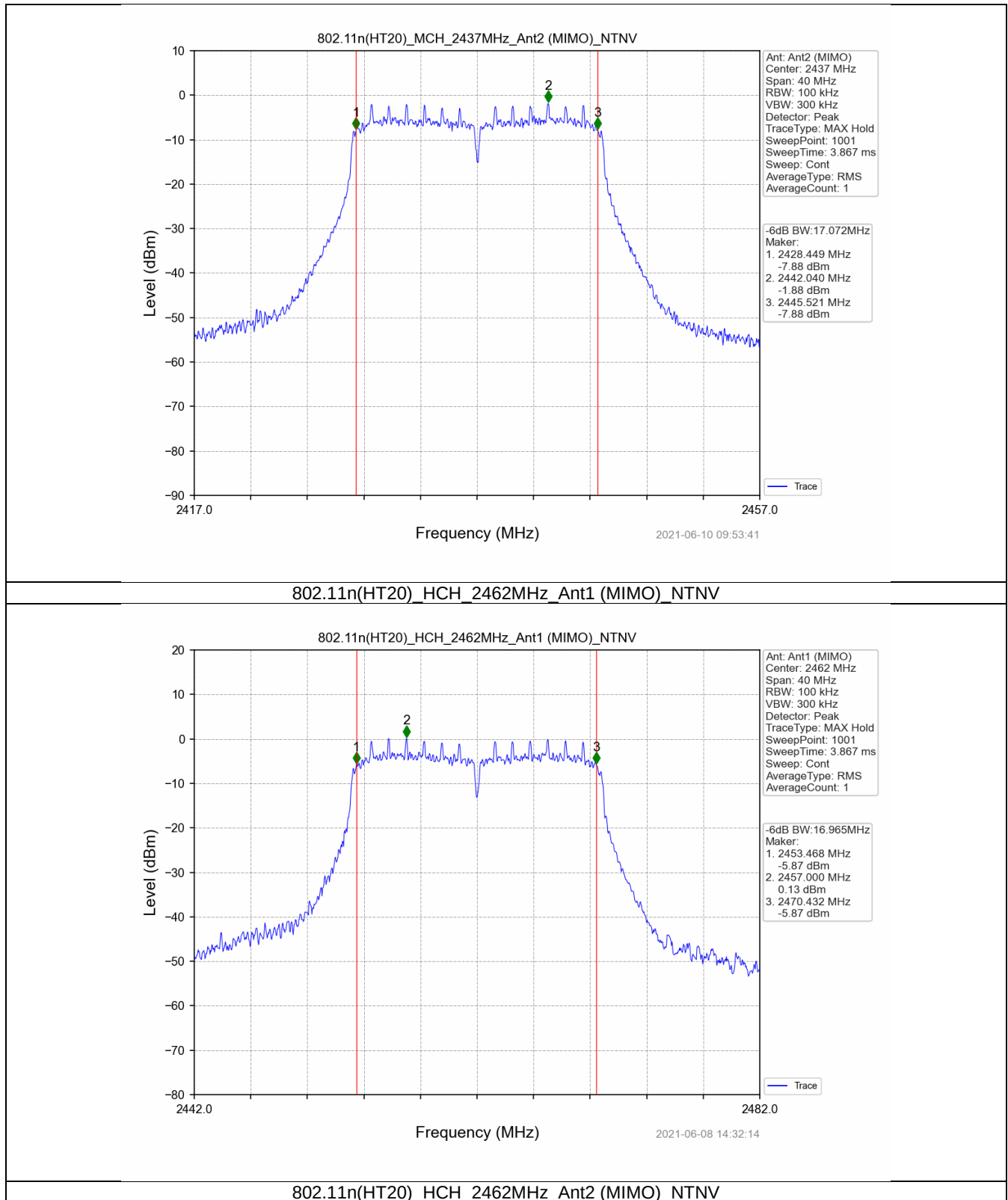


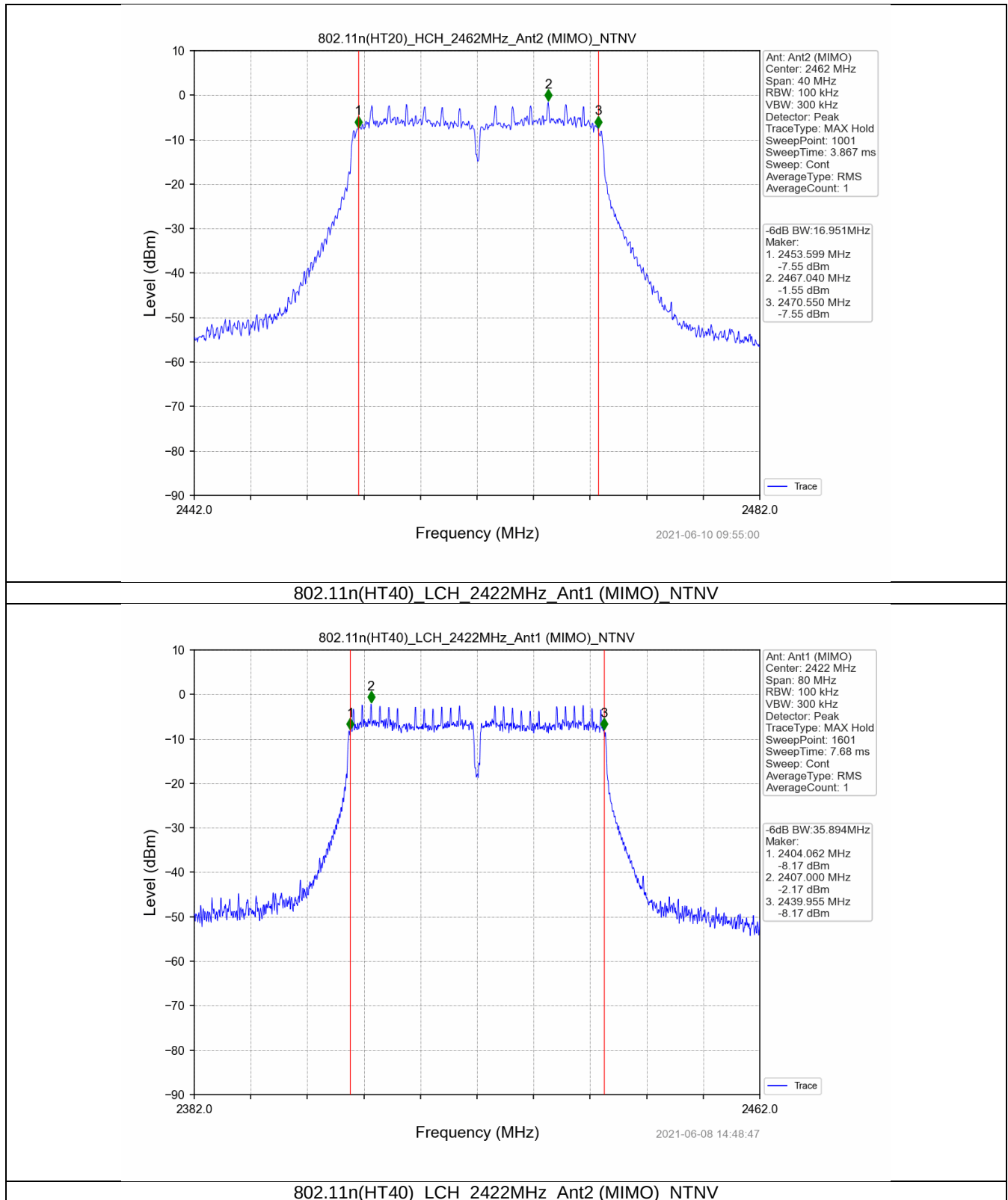


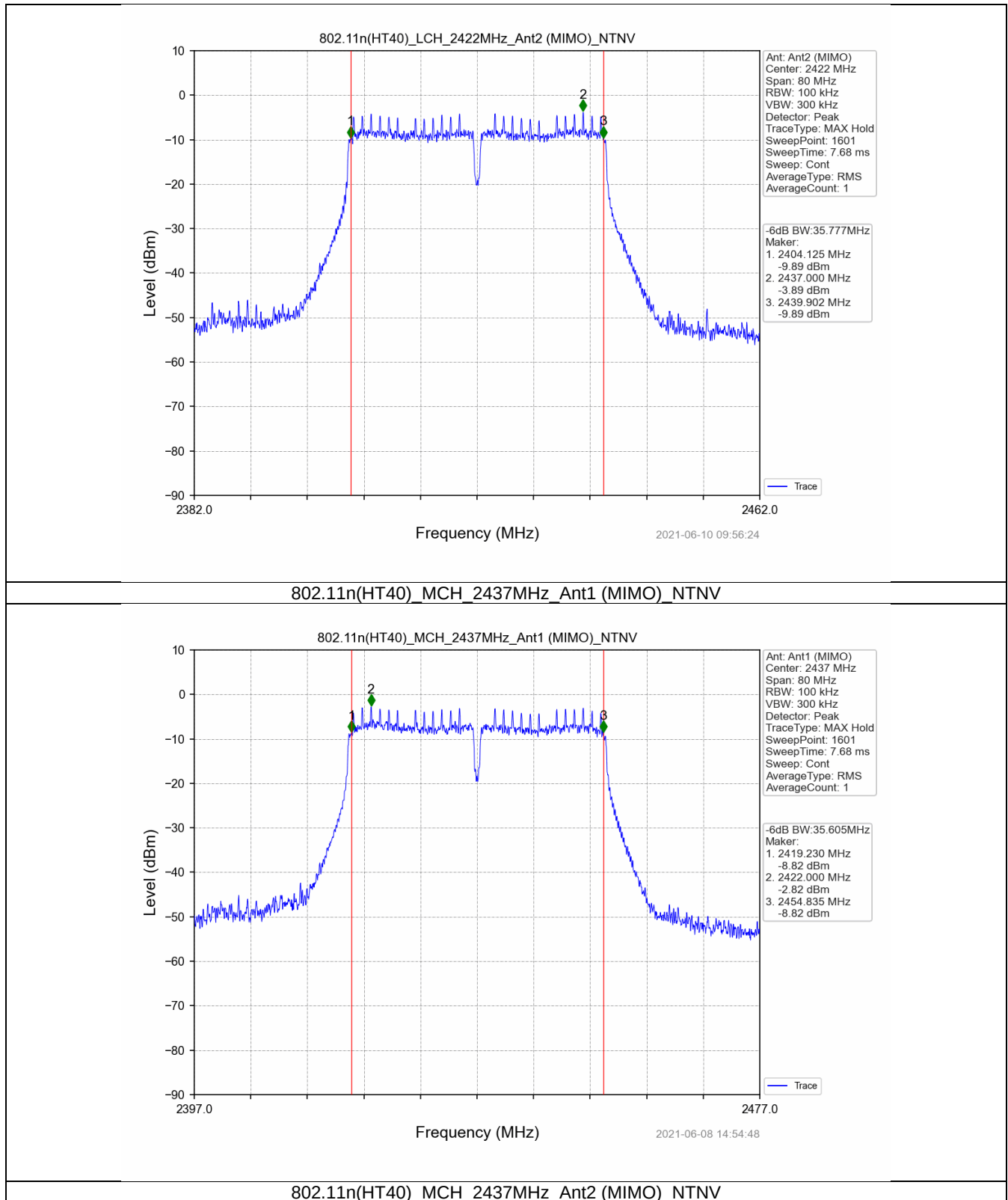


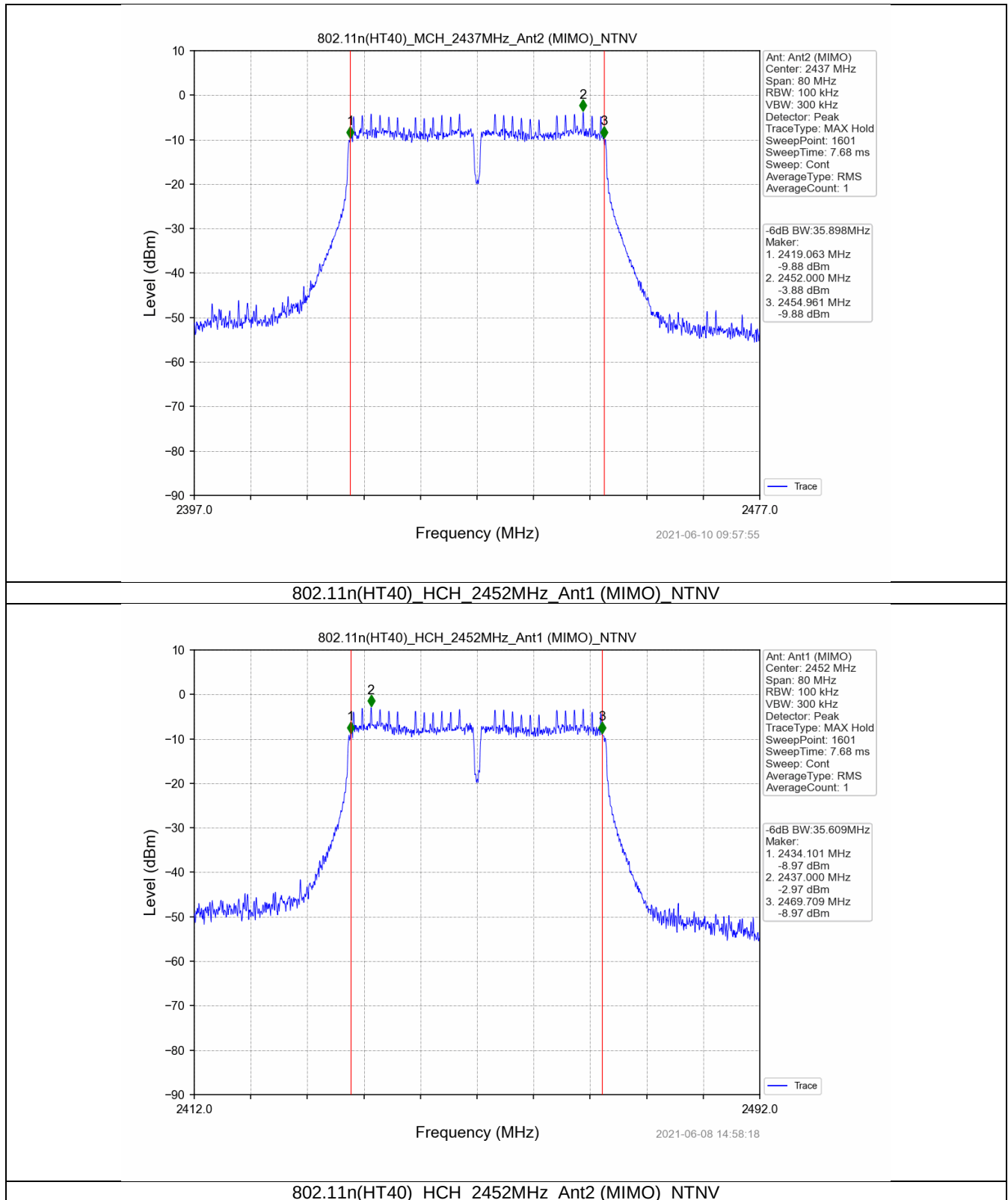


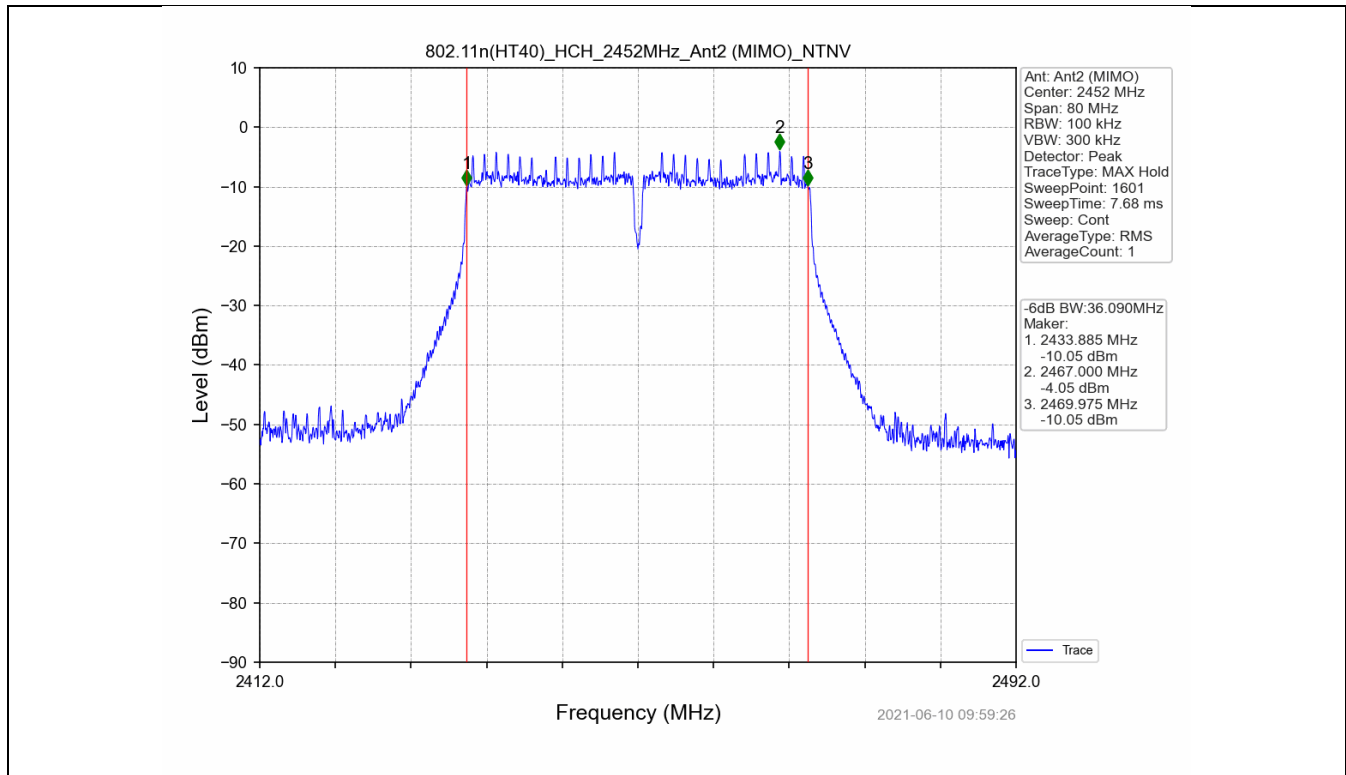












3. Maximum Conducted Output Power

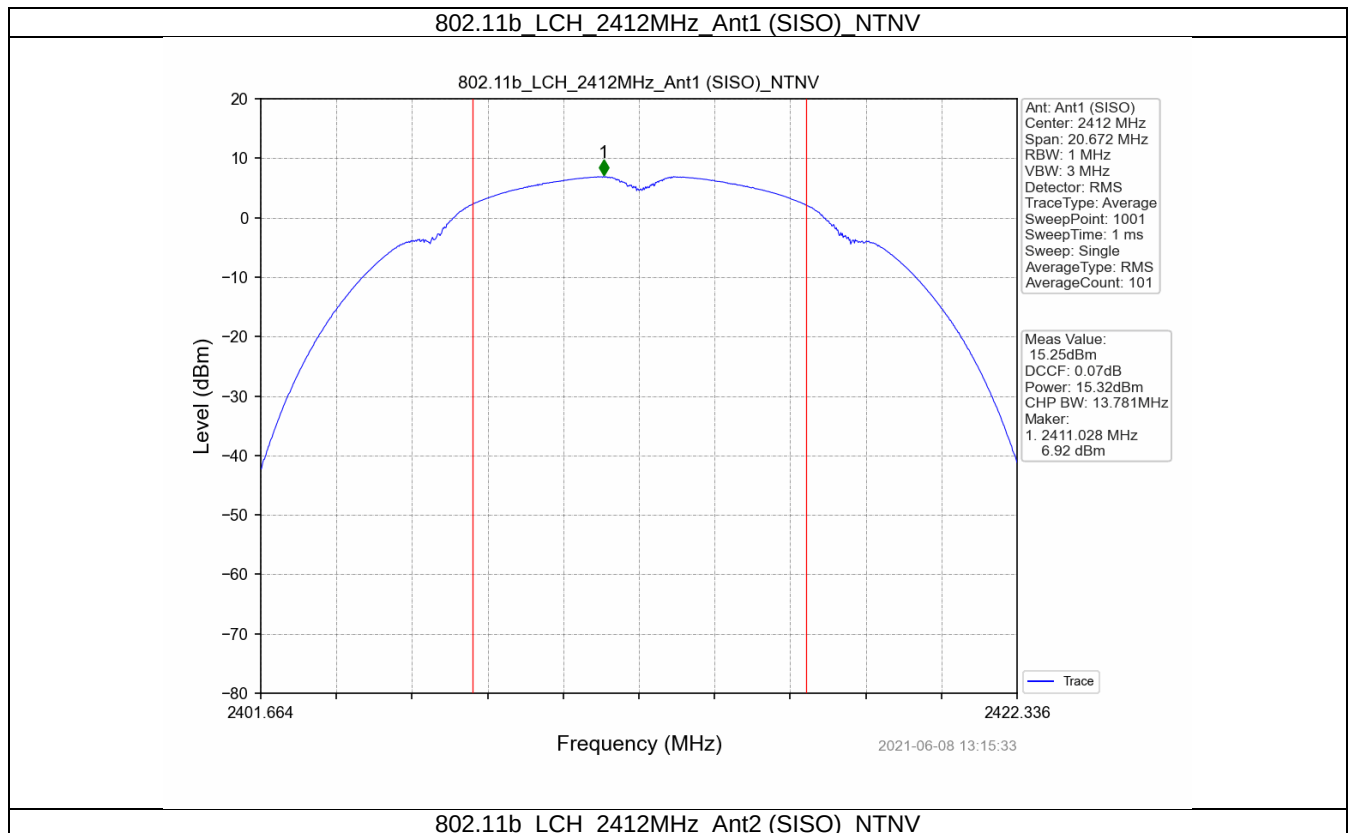
3.1 Power

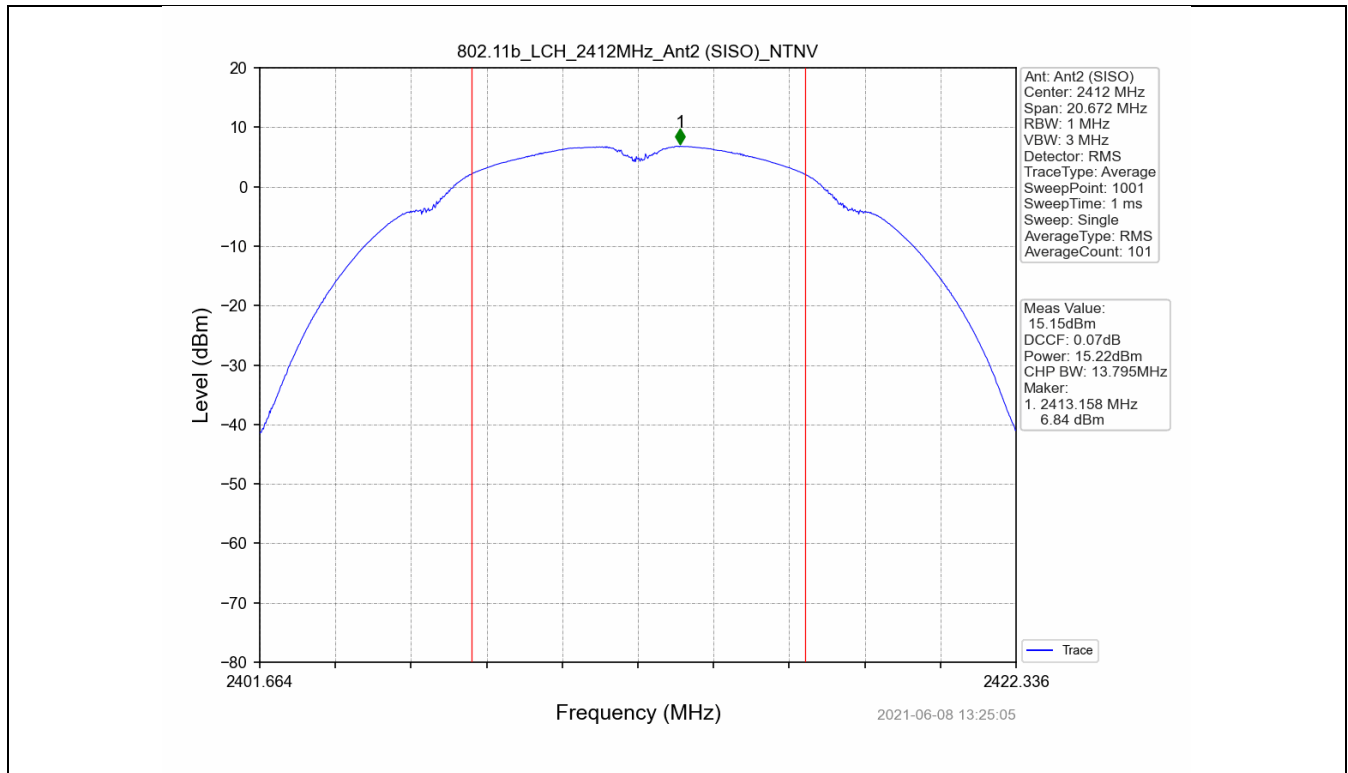
3.1.1 Test Result

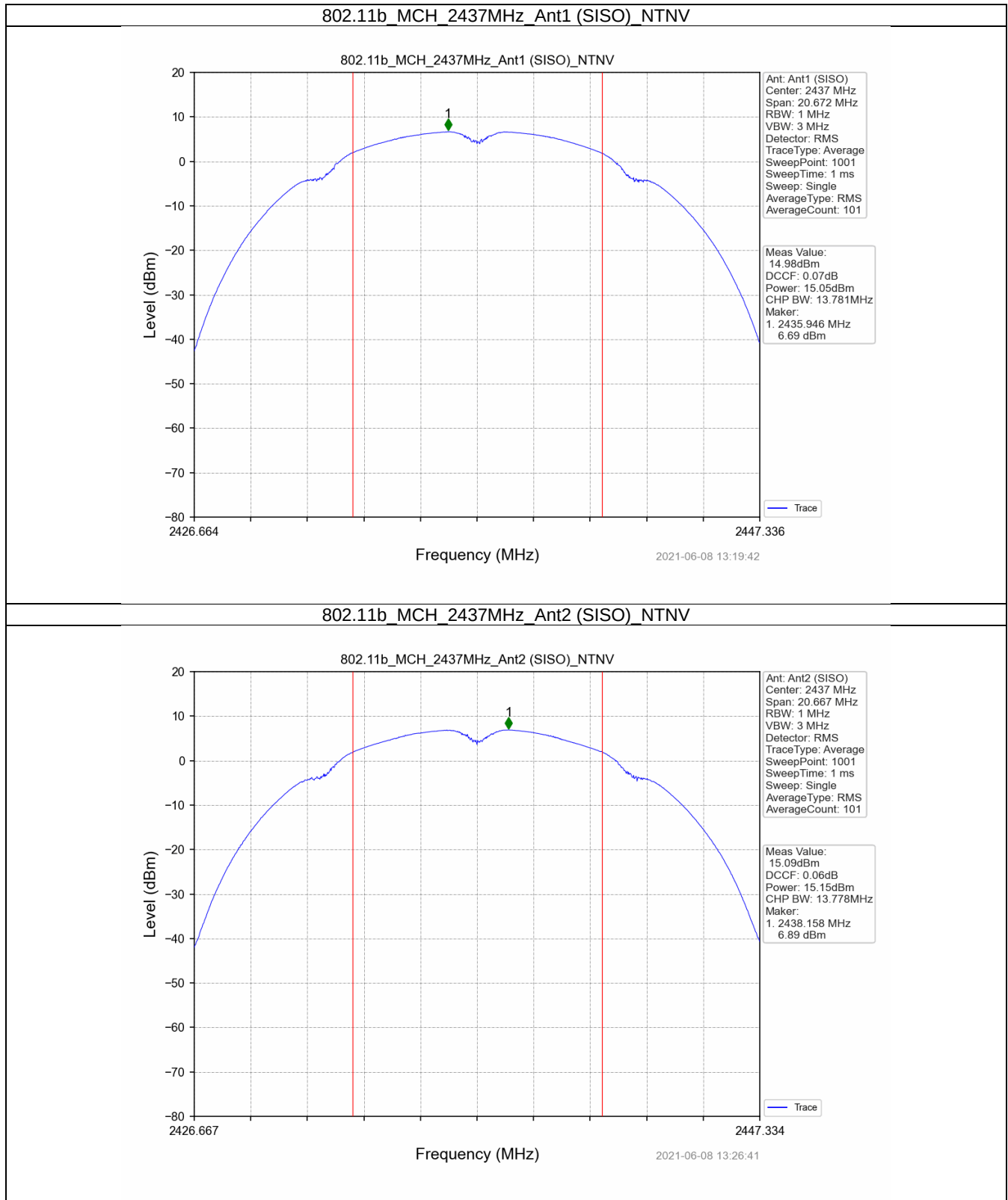
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Measured Peak Output Power (dBm)			Limit (dBm)	Verdict
					Ant1	Ant2	Sum		
802.11b	SISO	2412	/	/	15.32	15.22	/	<=30	Pass
		2437	/	/	15.05	15.15	/	<=30	Pass
		2462	/	/	14.71	15.02	/	<=30	Pass
802.11g	SISO	2412	/	/	14.70	14.61	/	<=30	Pass
		2437	/	/	14.39	14.90	/	<=30	Pass
		2462	/	/	14.06	14.36	/	<=30	Pass
802.11n (HT20)	MIMO	2412	/	/	11.67	11.35	14.52	<=29.26	Pass
		2437	/	/	11.33	11.26	14.31	<=29.26	Pass
		2462	/	/	10.94	11.12	14.04	<=29.26	Pass
802.11n (HT40)	MIMO	2422	/	/	11.58	10.96	14.29	<=29.26	Pass
		2437	/	/	11.13	10.91	14.03	<=29.26	Pass
		2452	/	/	10.86	10.86	13.87	<=29.26	Pass

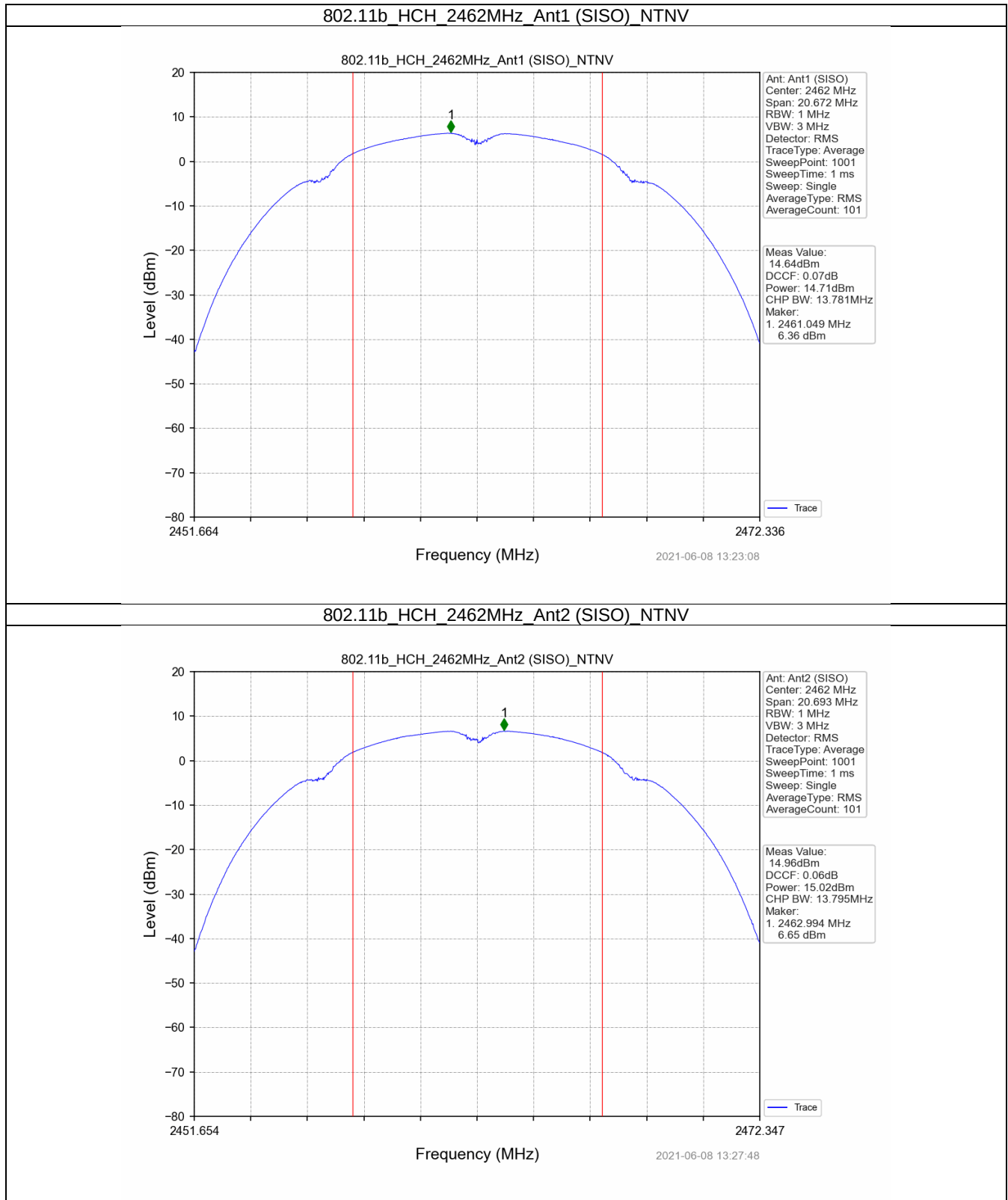
Note1: Antenna Gain: 1: 3.99dBi; 2: 3.47dBi;

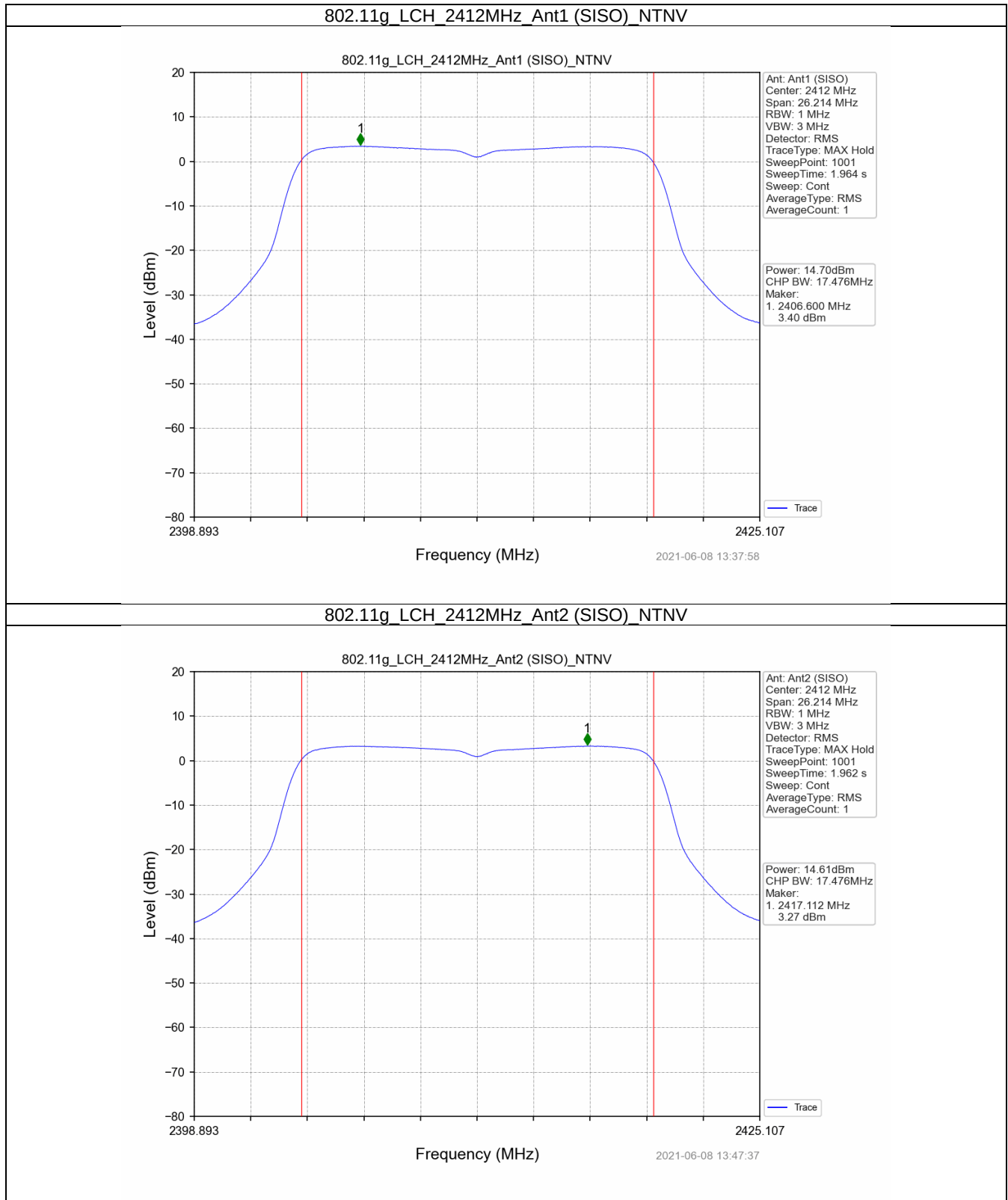
3.1.2 Test Graph

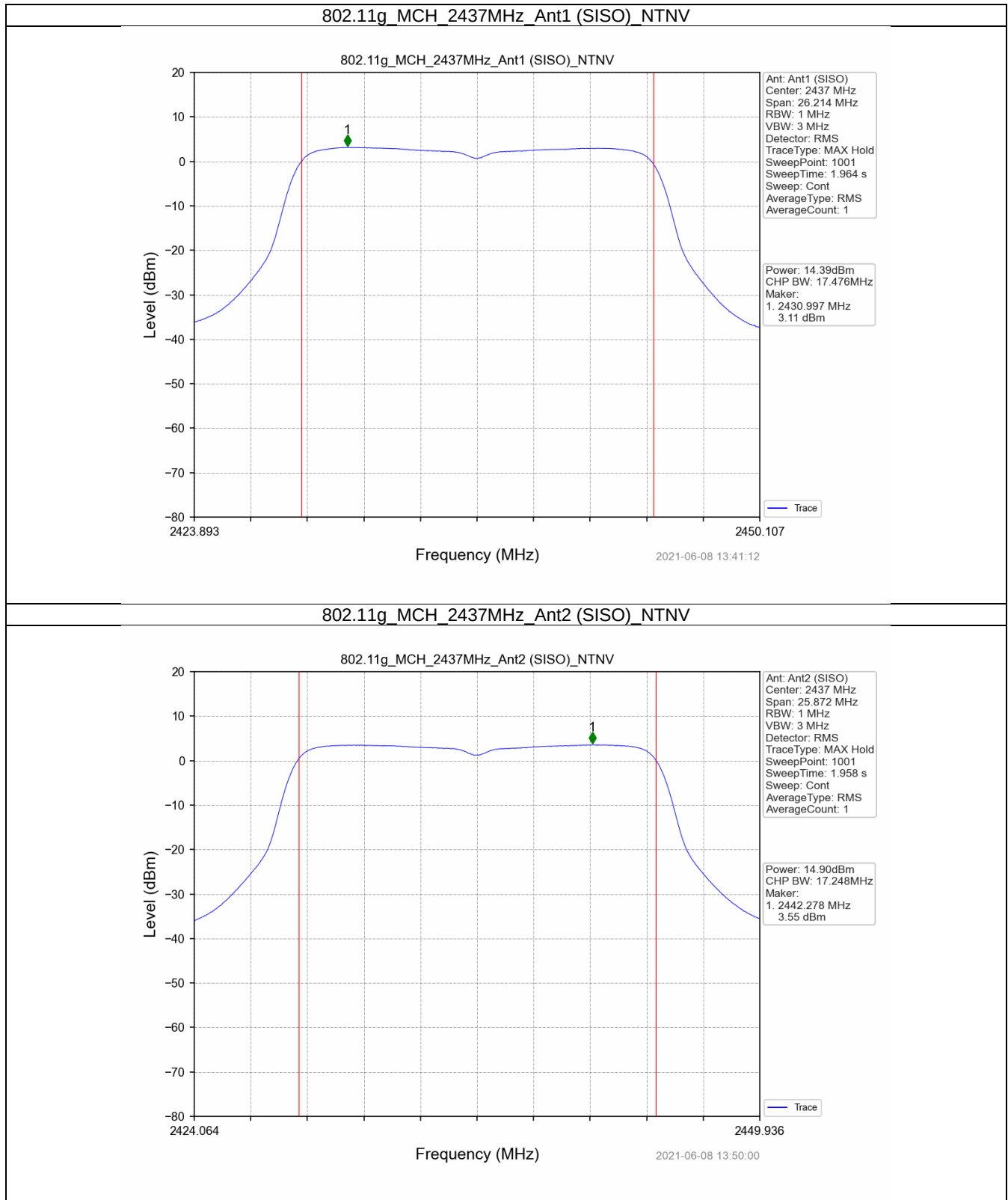


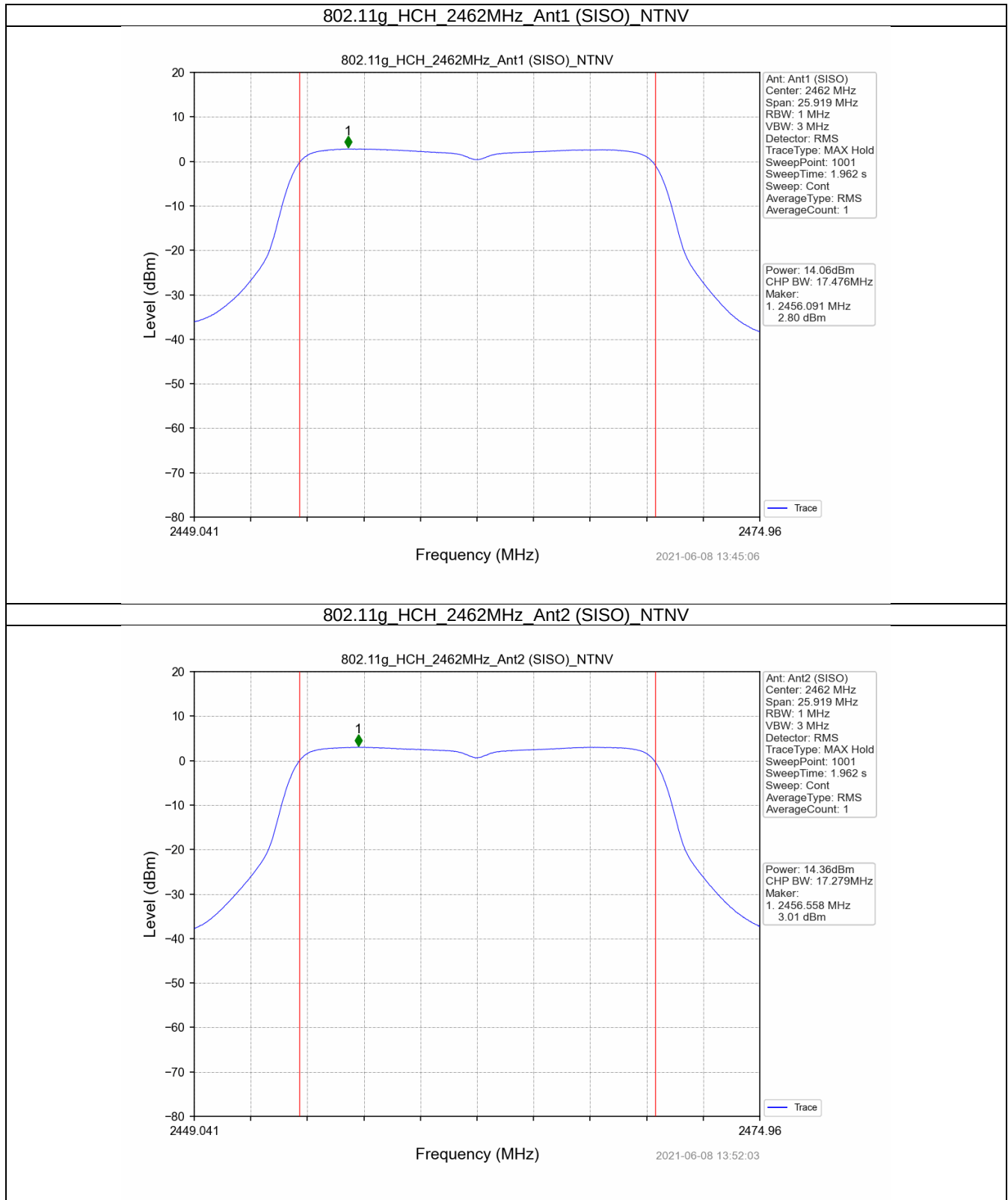


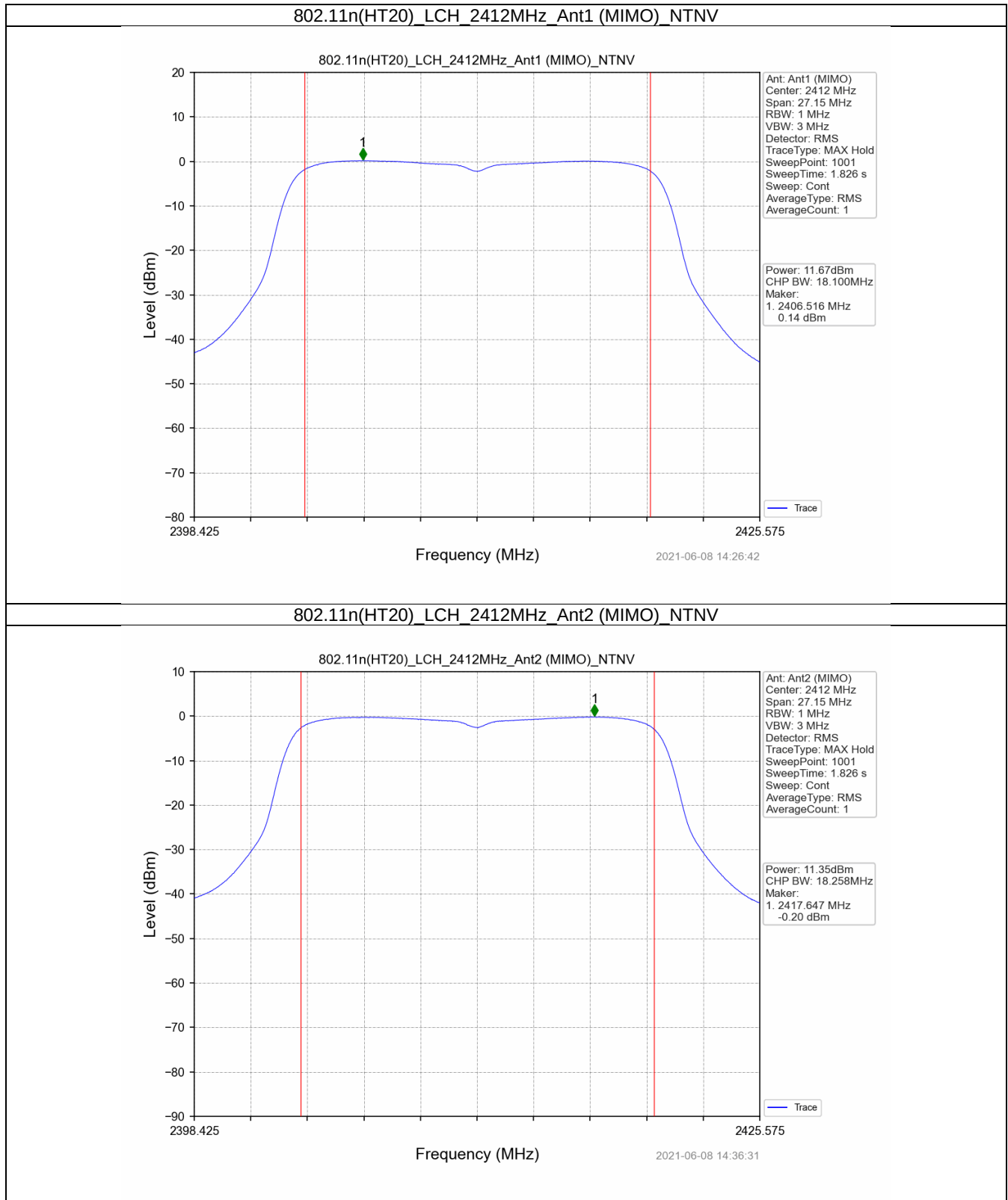


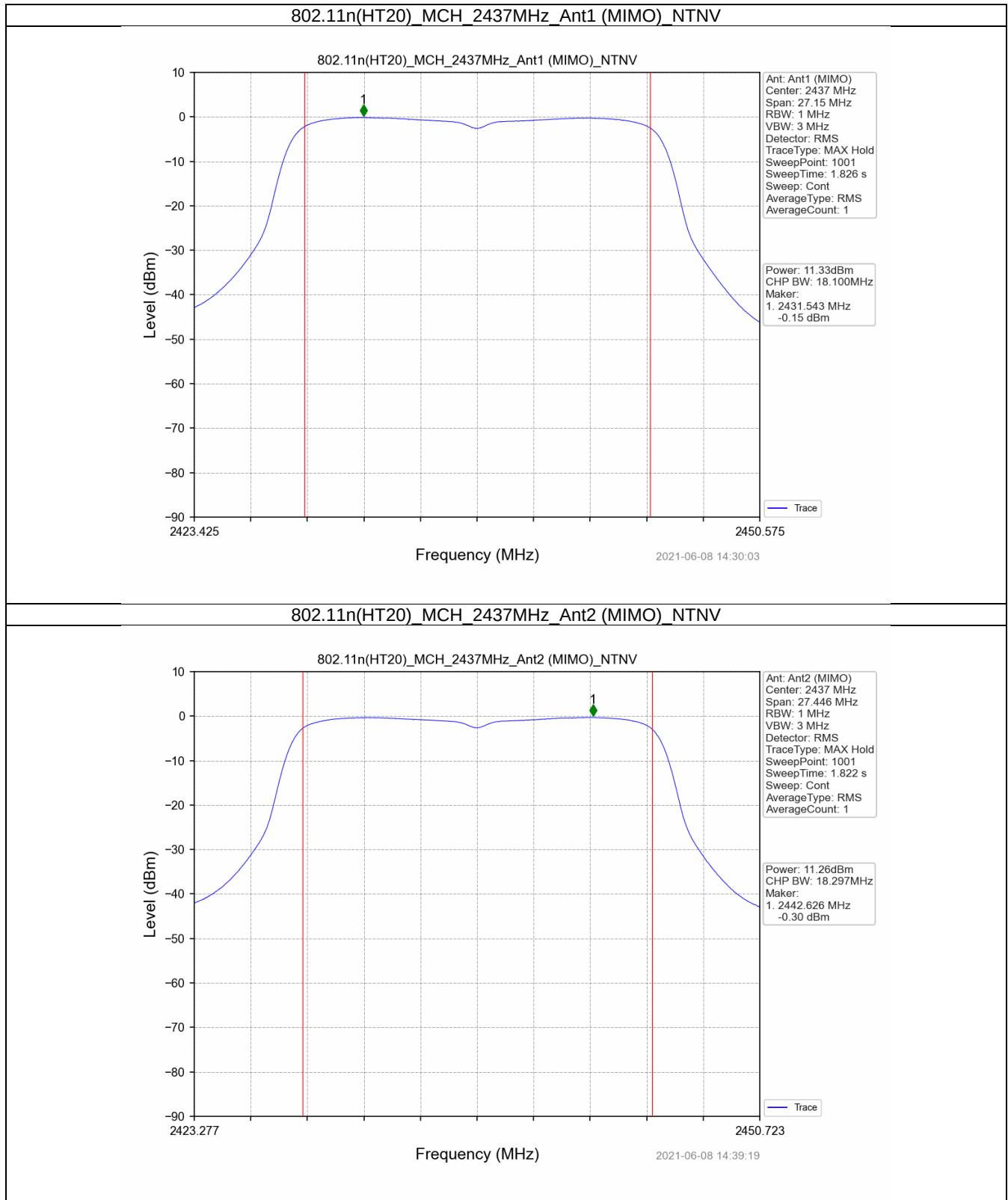


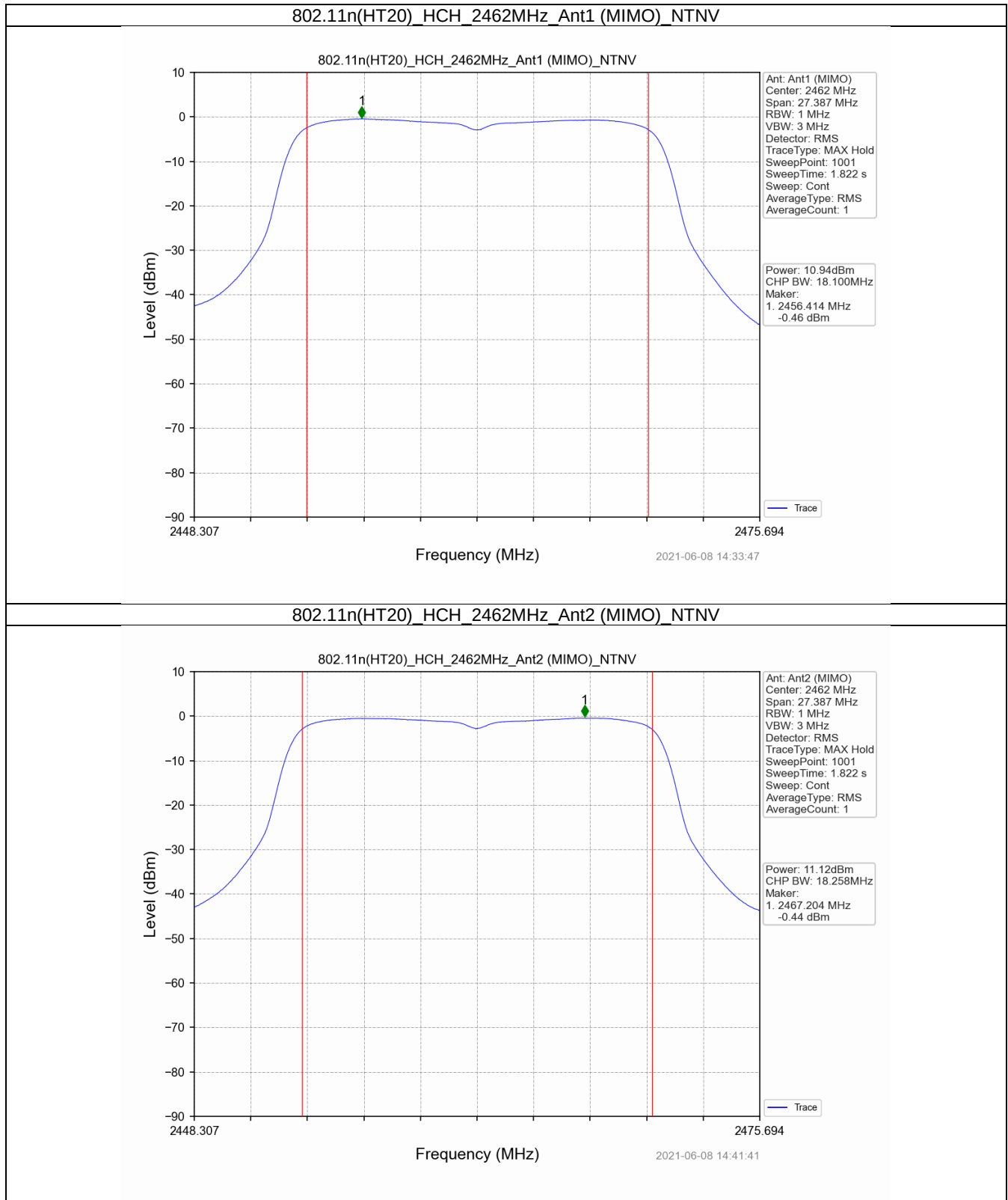


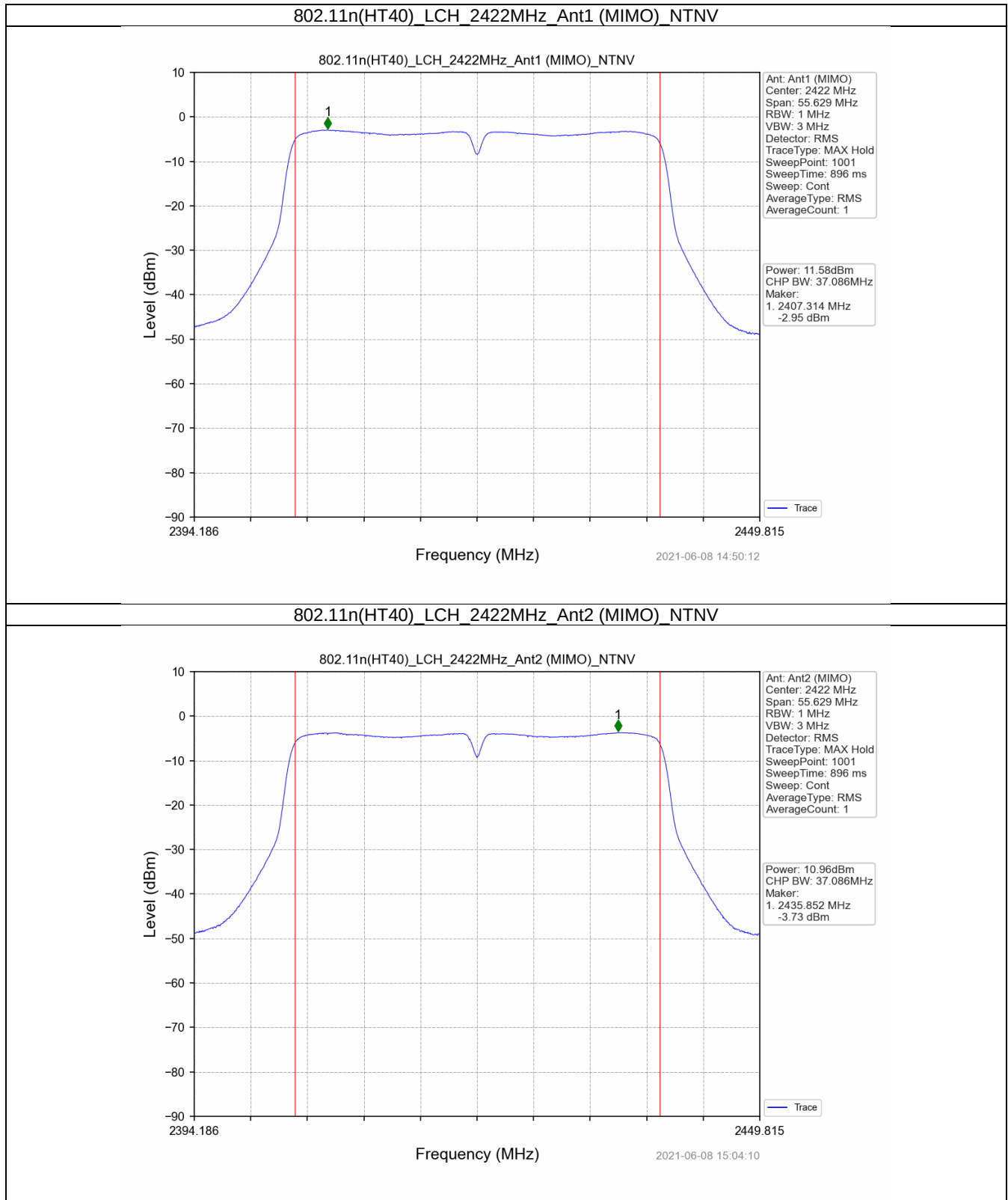


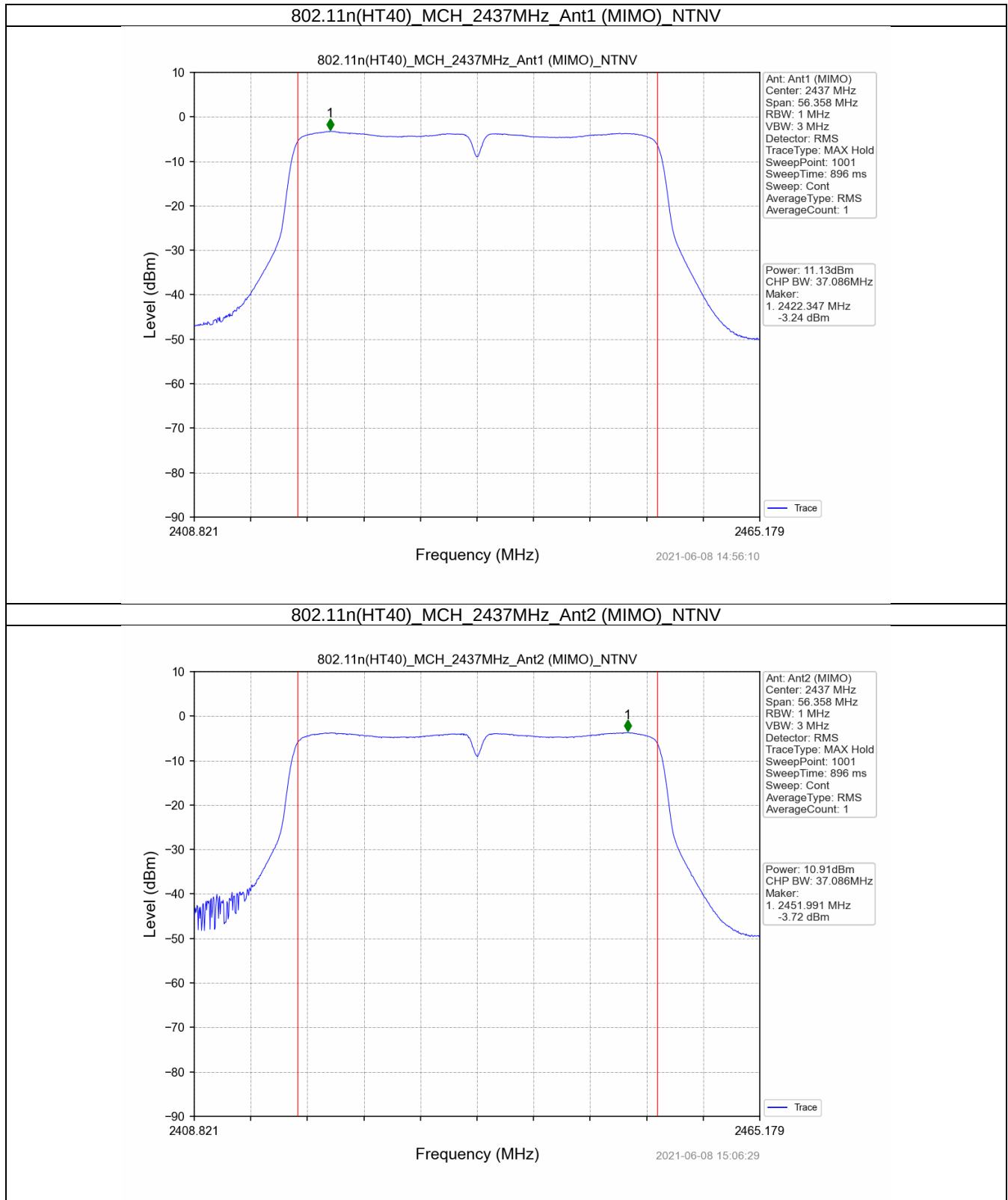


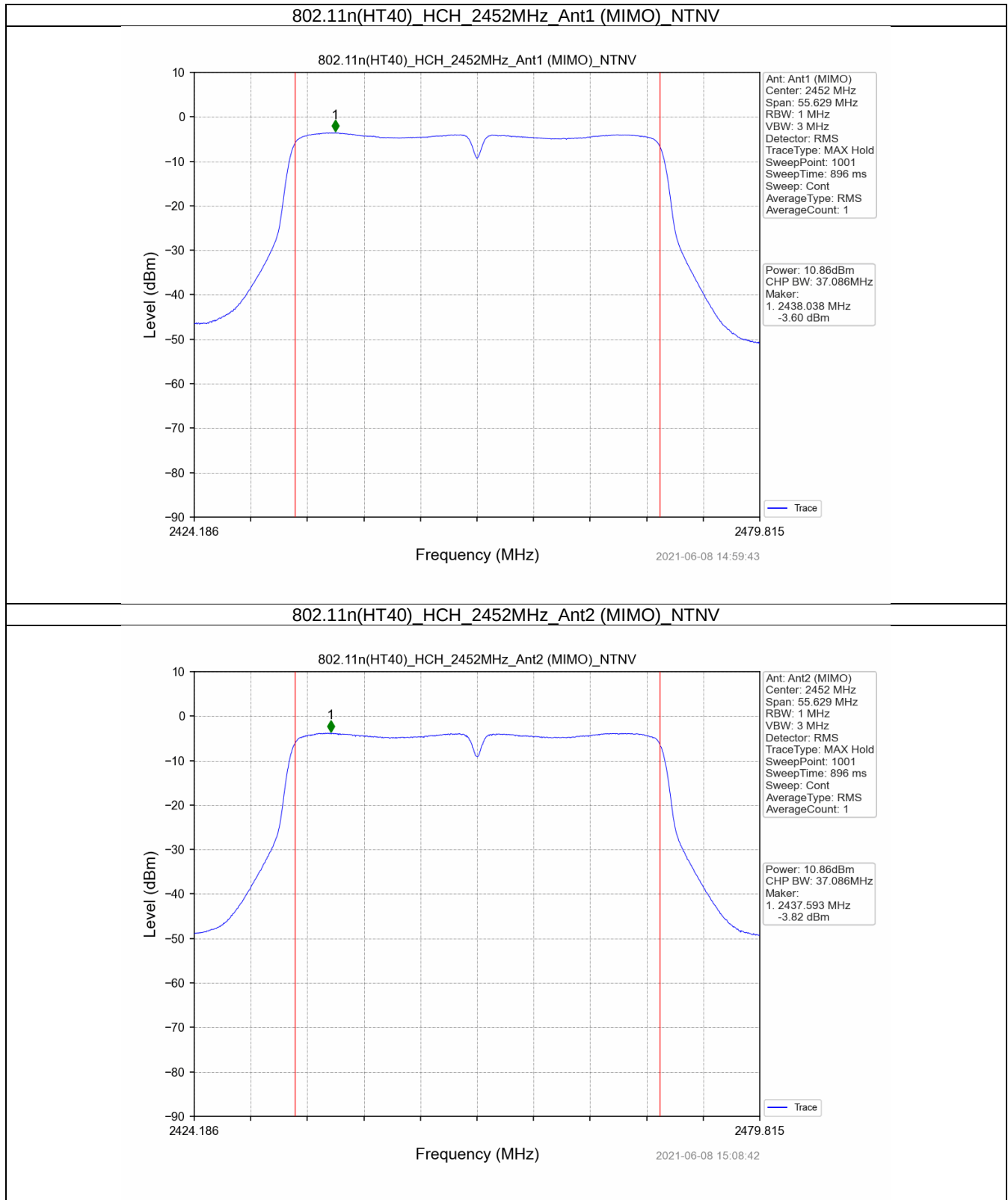












4. Maximum Power Spectral Density

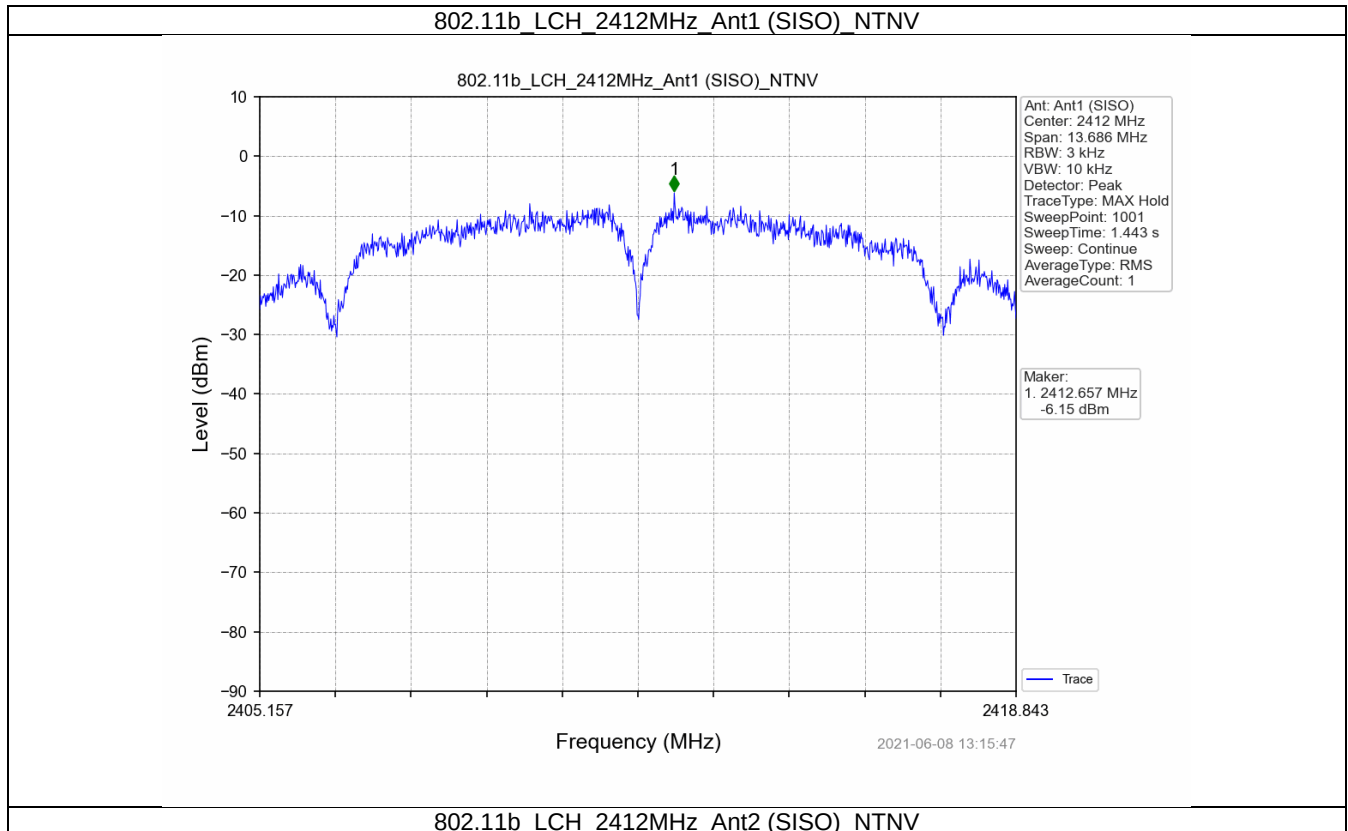
4.1 PSD

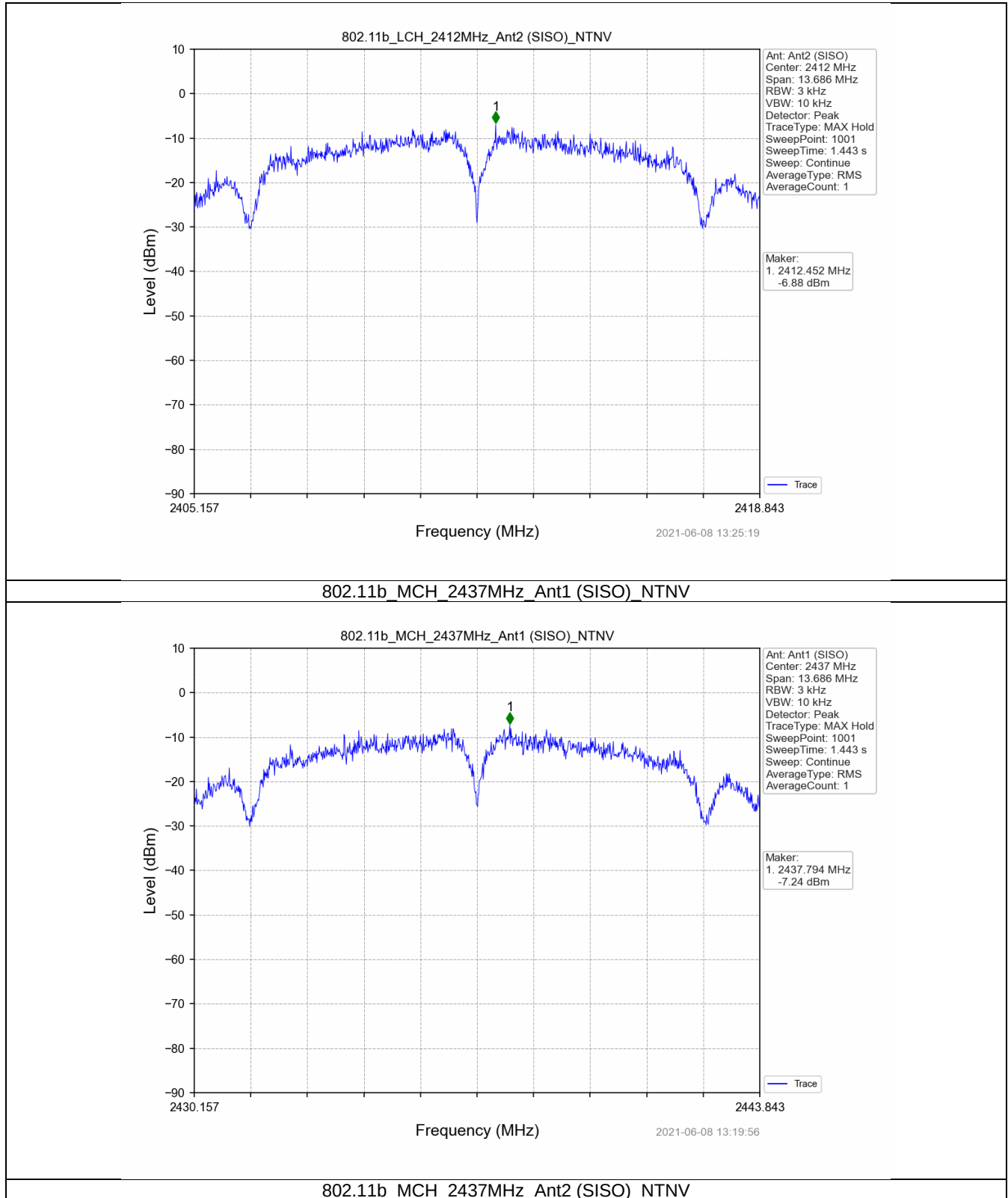
4.1.1 Test Result

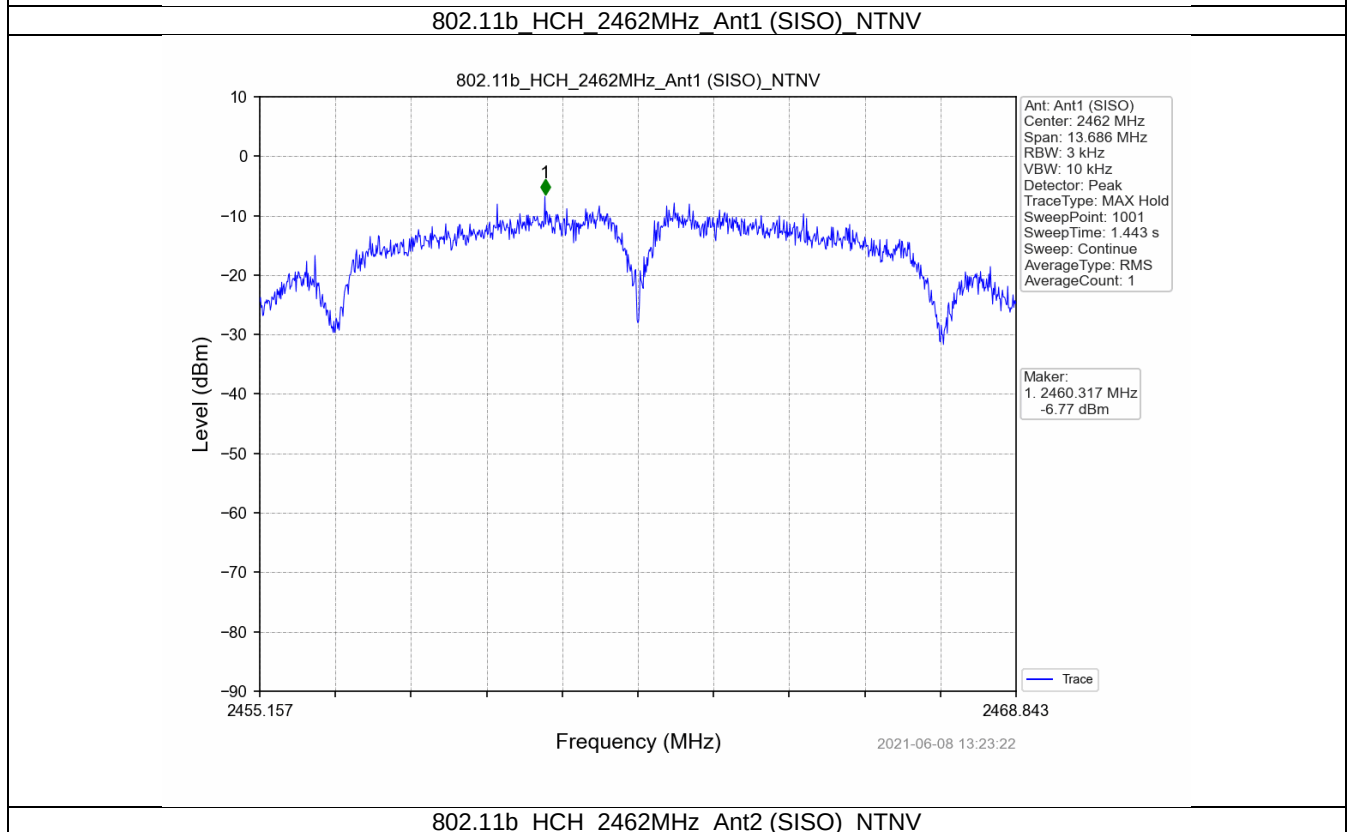
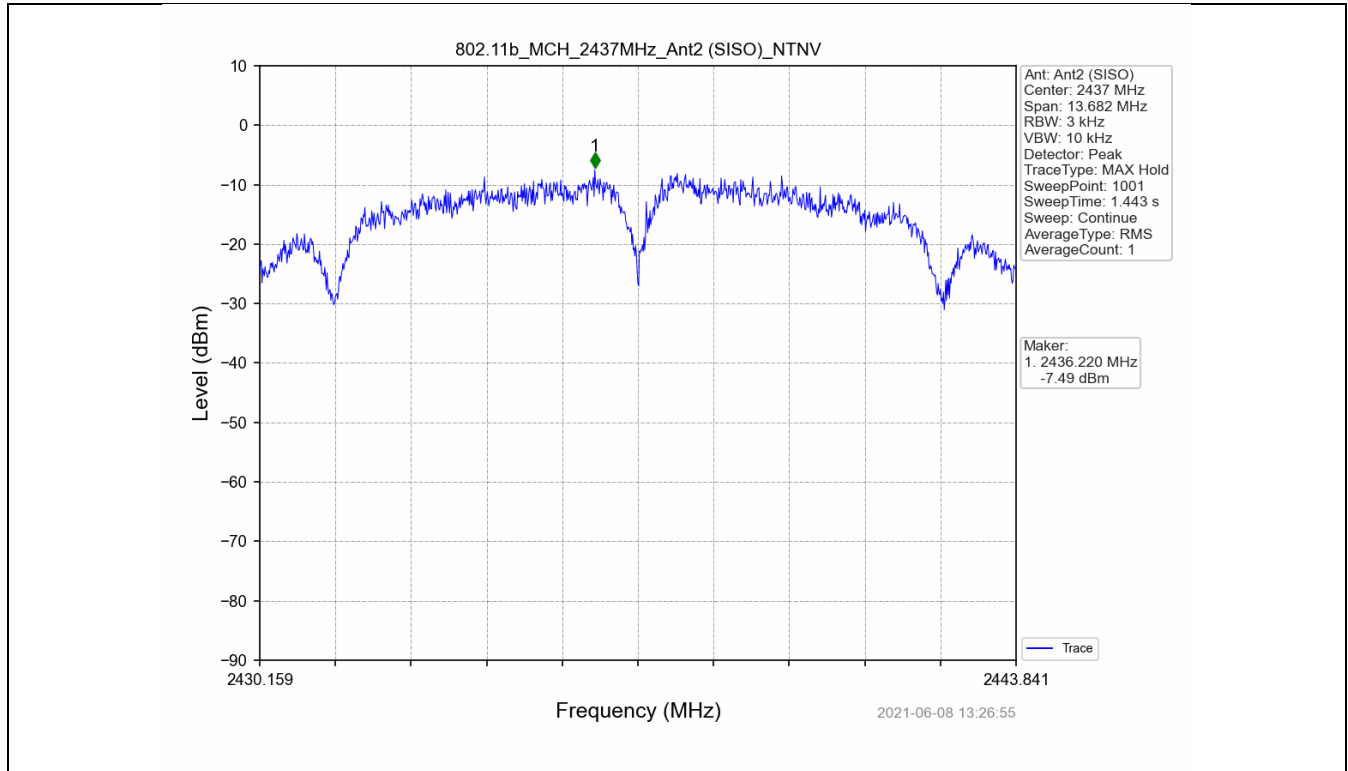
Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD ()			Limit ()	Verdict
					Ant1	Ant2	Sum		
802.11b	SISO	2412	/	/	-6.15	-6.88	/	<=8	Pass
		2437	/	/	-7.24	-7.49	/	<=8	Pass
		2462	/	/	-6.77	-6.26	/	<=8	Pass
802.11g	SISO	2412	/	/	-10.15	-10.44	/	<=8	Pass
		2437	/	/	-10.45	-10.12	/	<=8	Pass
		2462	/	/	-10.90	-11.38	/	<=8	Pass
802.11n (HT20)	MIMO	2412	/	/	-13.77	-14.17	-11.92	<=7.26	Pass
		2437	/	/	-13.67	-13.64	-12.47	<=7.26	Pass
		2462	/	/	-14.41	-15.02	-12.61	<=7.26	Pass
802.11n (HT40)	MIMO	2422	/	/	-17.97	-17.73	-15.47	<=7.26	Pass
		2437	/	/	-17.25	-17.72	-14.47	<=7.26	Pass
		2452	/	/	-17.93	-17.36	-15.68	<=7.26	Pass

Note1: Antenna Gain: 1: 3.99dBi; 2: 3.47dBi;

4.1.2 Test Graph







802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV

