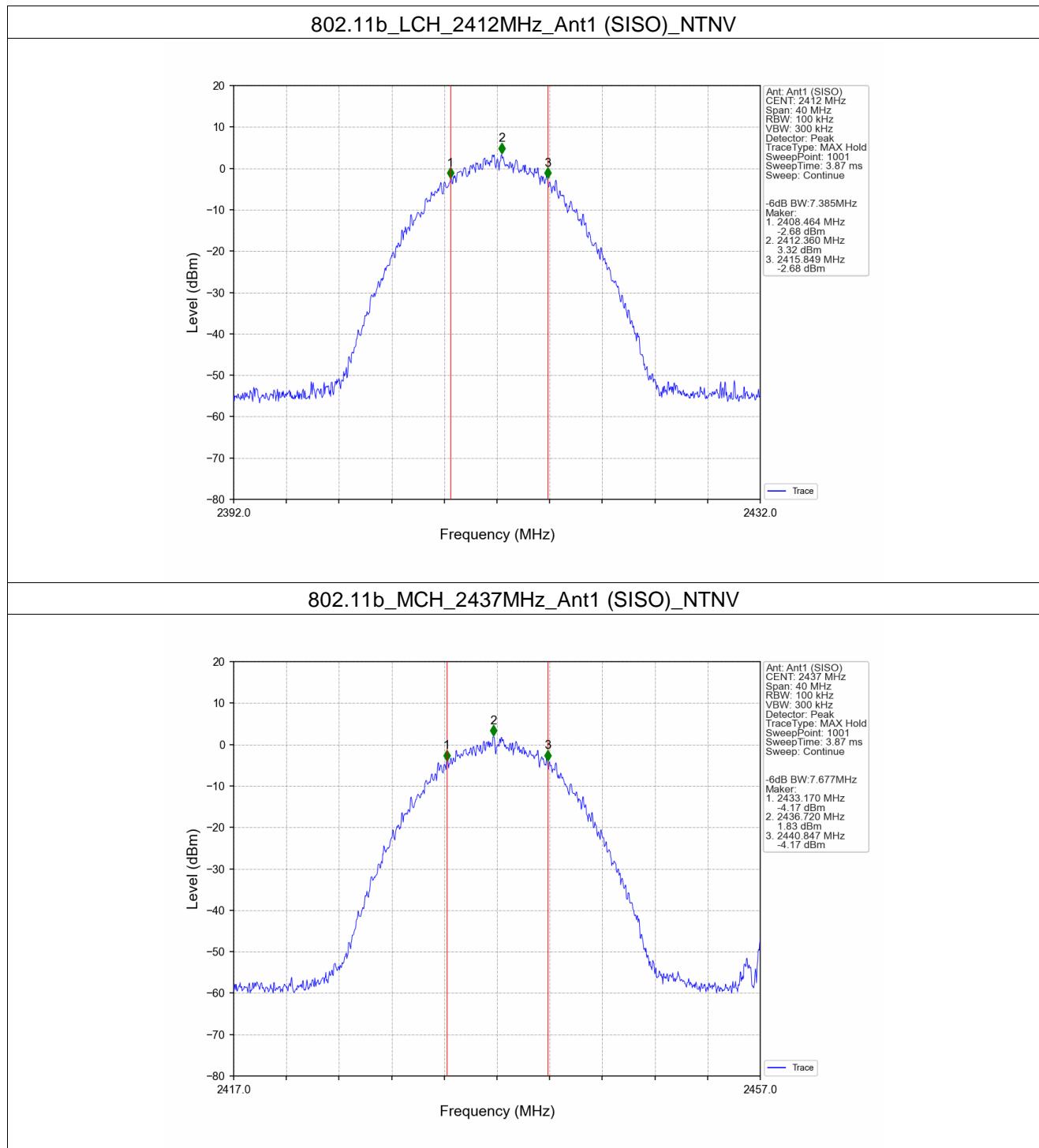


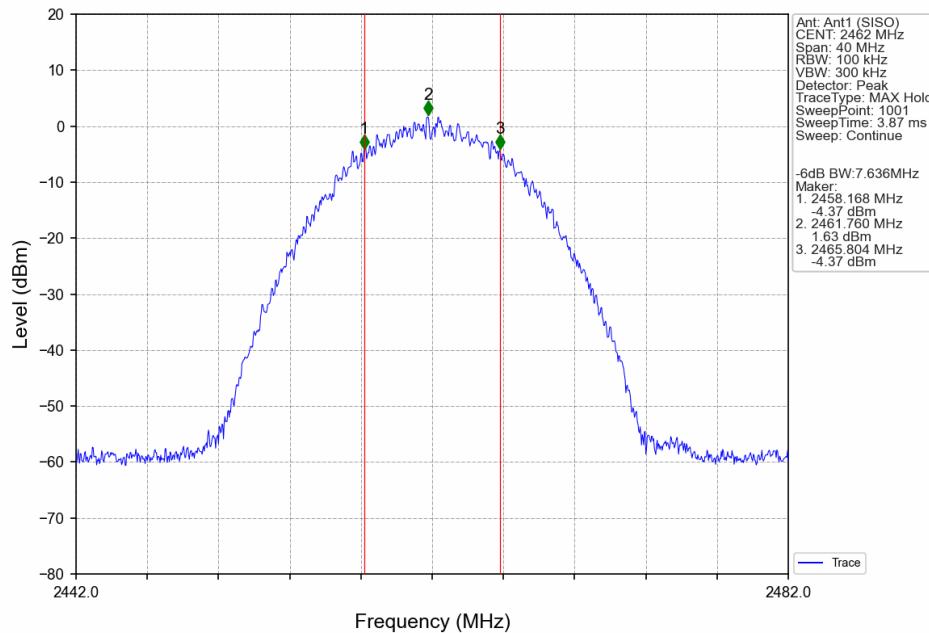
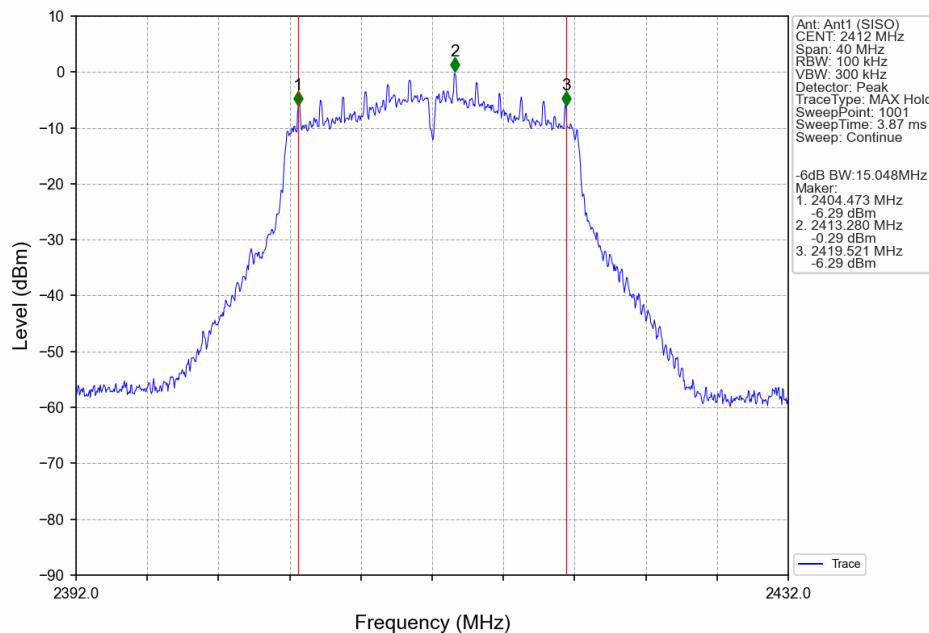
2.2 Test Graph

2.2.1 6dB BW



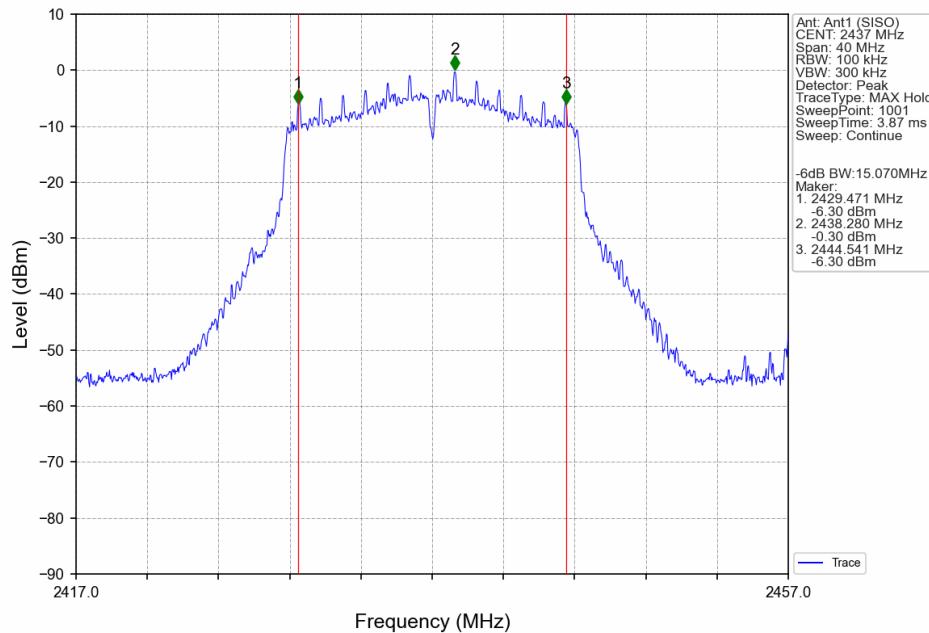
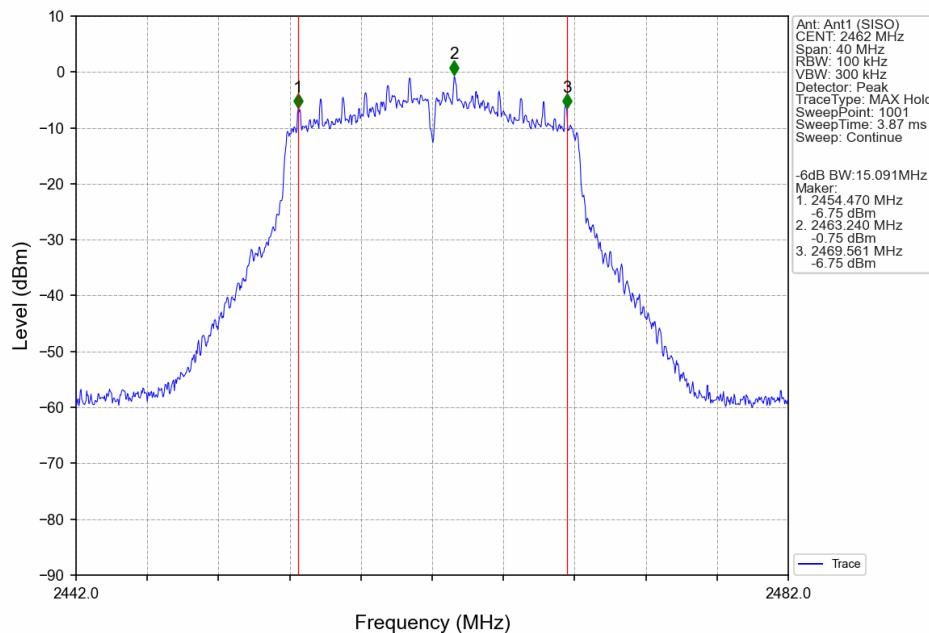
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV**802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV**

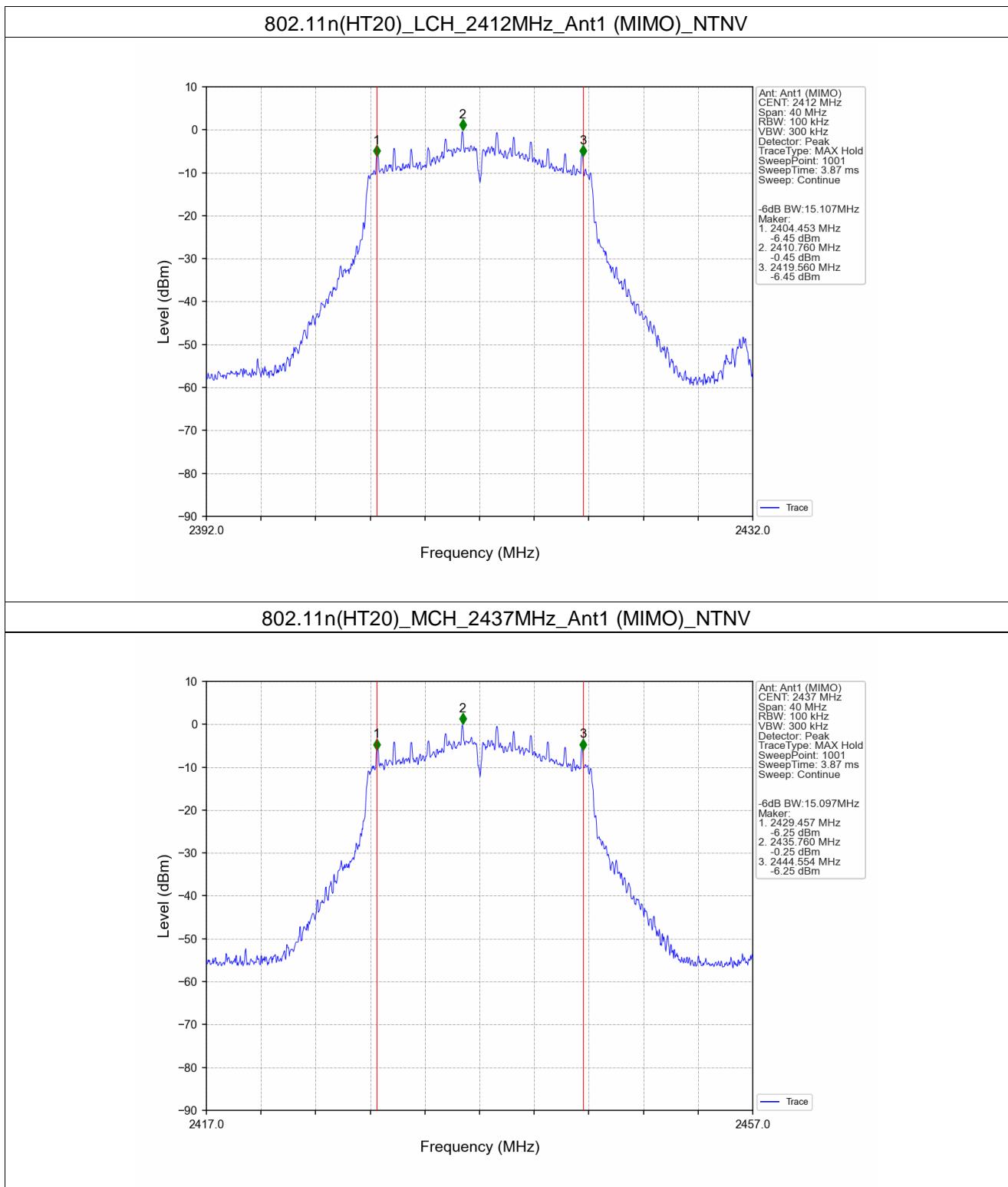
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV**802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV**

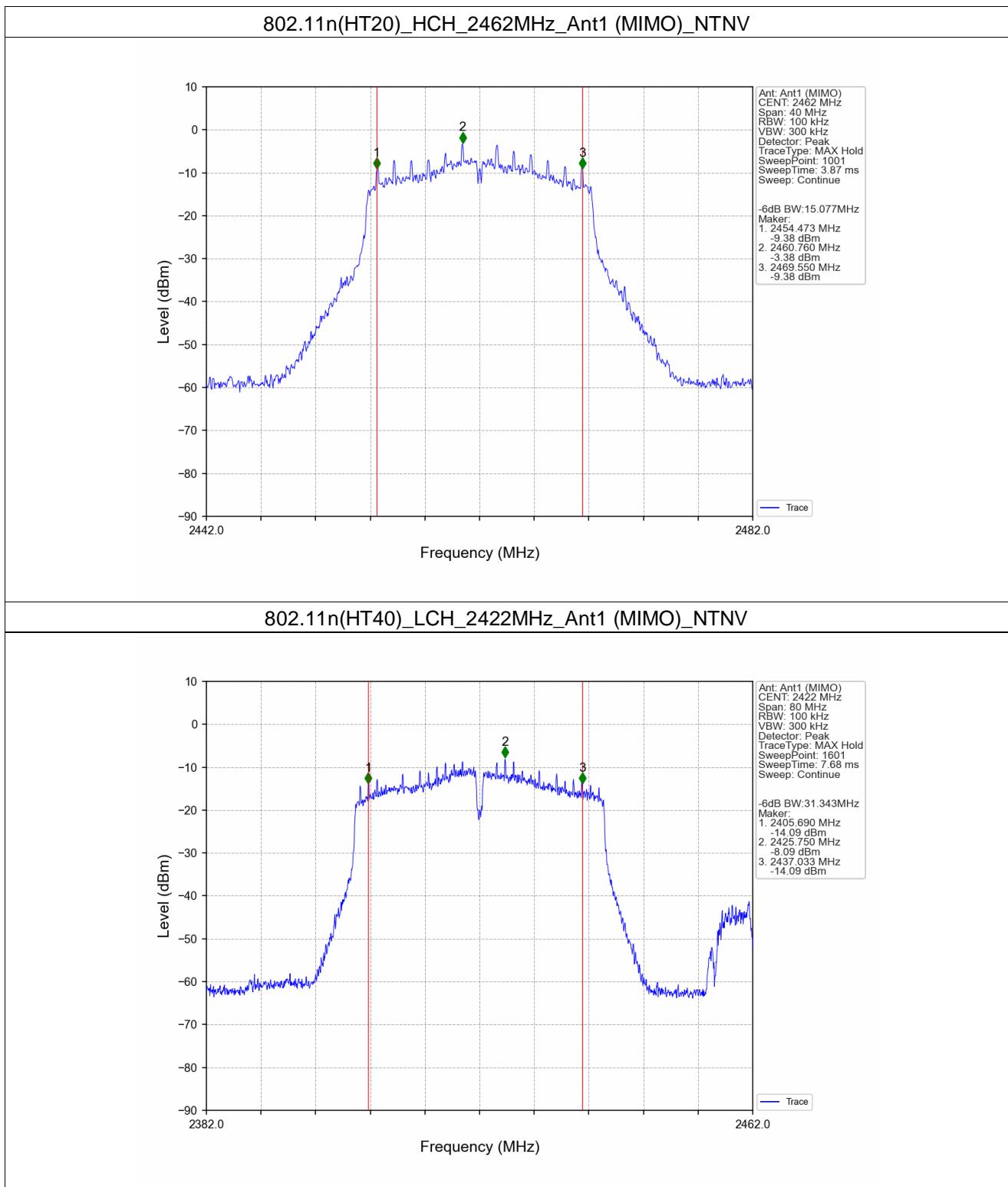
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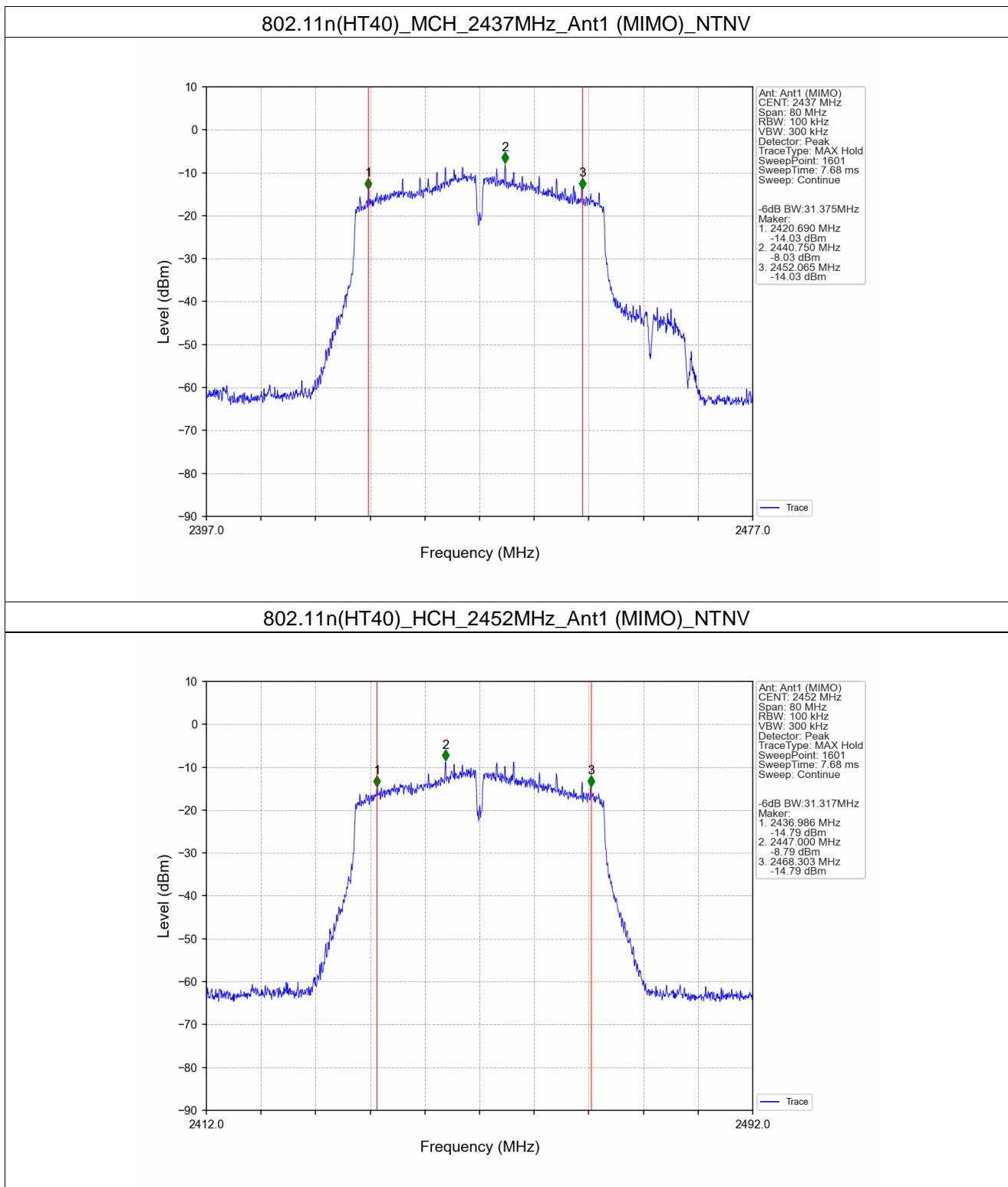
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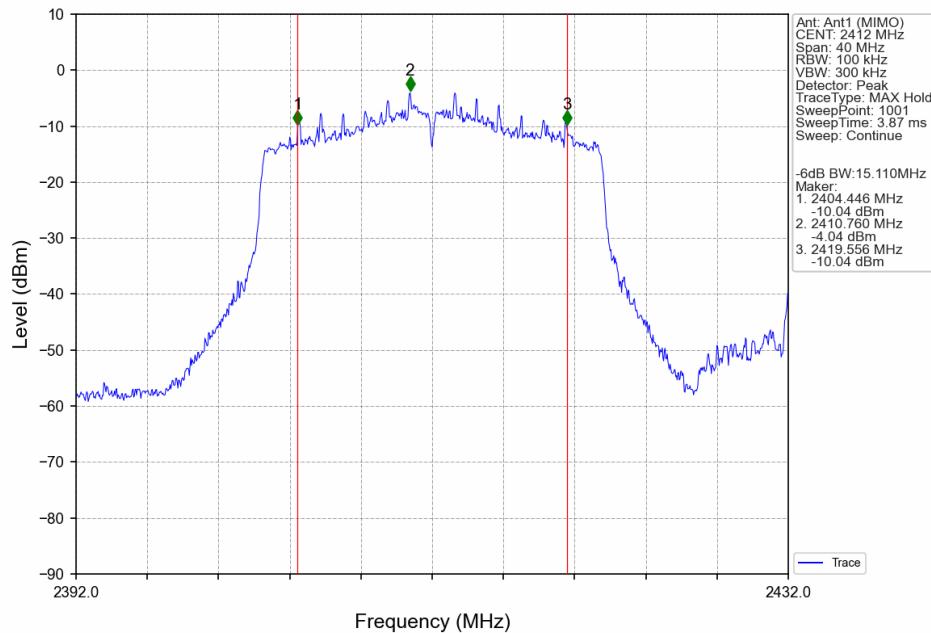
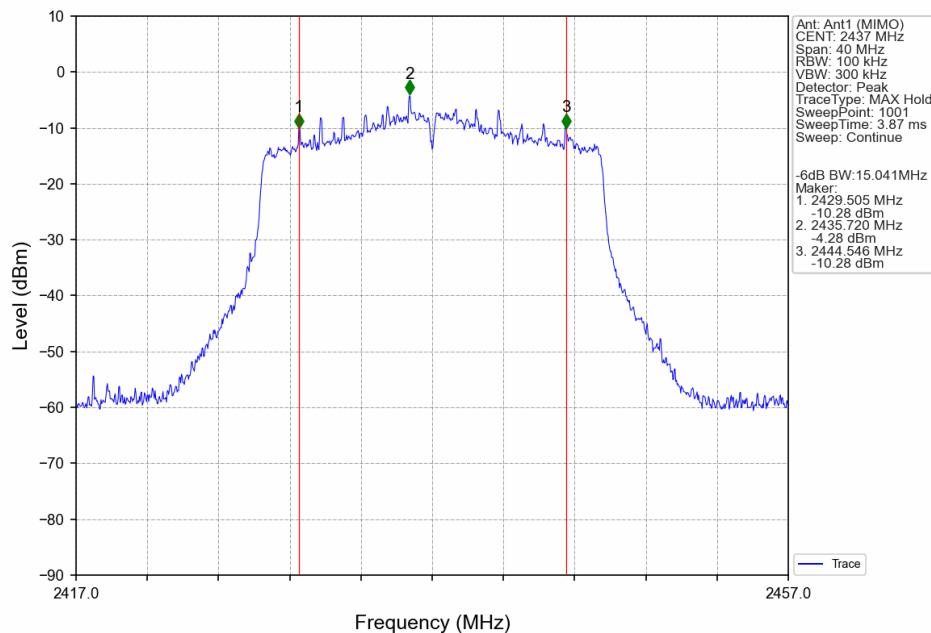
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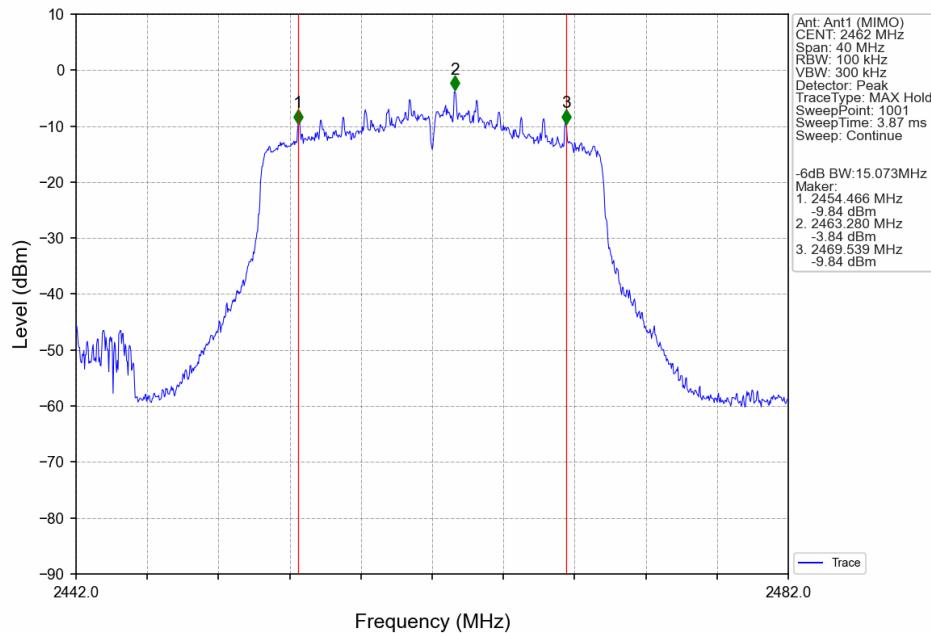
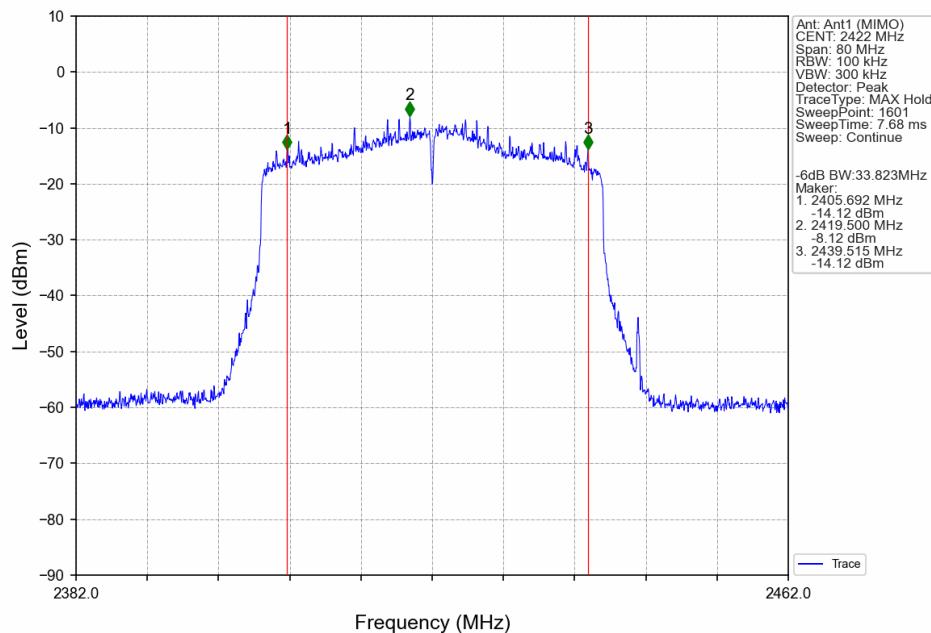
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802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV**802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (MIMO)_NTNV**

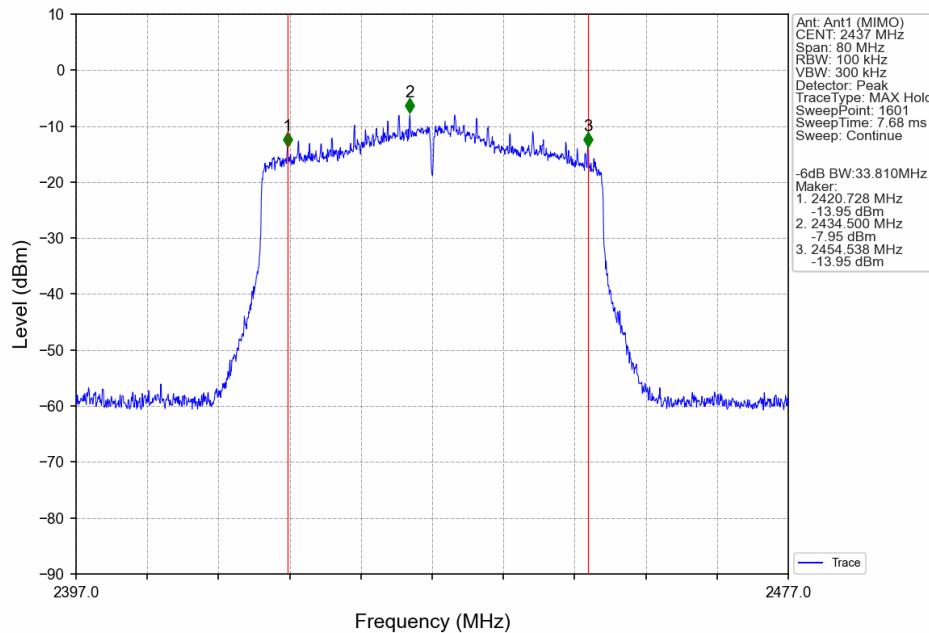
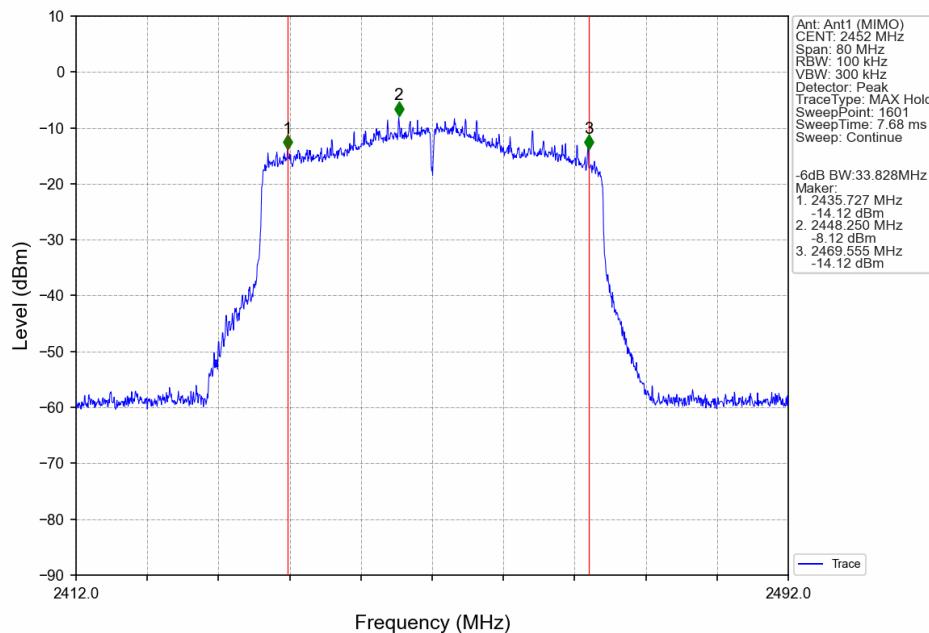
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802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (MIMO)_NTNV

802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV


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802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV

802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_NTNV


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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum Peak Conducted Output Power (dBm)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	/	/	16.07	13.33	/	<=30	Pass
		2437	/	/	14.67	13.26	/	<=30	Pass
		2462	/	/	14.53	12.98	/	<=30	Pass
802.11g	SISO	2412	/	/	15.67	14.00	/	<=30	Pass
		2437	/	/	15.55	14.07	/	<=30	Pass
		2462	/	/	15.47	14.00	/	<=30	Pass
802.11n (HT20)	MIMO	2412	/	/	15.45	14.28	17.91	<=30	Pass
		2437	/	/	15.69	14.50	18.15	<=30	Pass
		2462	/	/	12.81	11.39	15.17	<=30	Pass
802.11n (HT40)	MIMO	2422	/	/	11.91	10.42	14.24	<=30	Pass
		2437	/	/	11.85	10.46	14.22	<=30	Pass
		2452	/	/	11.84	10.44	14.21	<=30	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	13.58	11.55	15.69	<=30	Pass
		2437	RU242	Left	13.37	11.45	15.53	<=30	Pass
		2462	RU242	Left	13.16	11.54	15.44	<=30	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	13.16	11.63	15.47	<=30	Pass
		2437	RU484	Left	13.15	11.69	15.49	<=30	Pass
		2452	RU484	Left	12.97	11.92	15.49	<=30	Pass
Note1: Antenna Gain: Ant1: 2.98dBi; Ant2: 2.98dBi; Note2: Directional Gain: Band1: 5.99dBi									

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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	RU	RU Pos	Maximum PSD (dBm/3kHz)				Verdict
					ANT1	ANT2	MIMO	Limit	
802.11b	SISO	2412	/	/	-6.61	-13.16	/	<=8	Pass
		2437	/	/	-8.39	-7.73	/	<=8	Pass
		2462	/	/	-14.64	-9.26	/	<=8	Pass
802.11g	SISO	2412	/	/	-17.66	-20.26	/	<=8	Pass
		2437	/	/	-16.16	-19.28	/	<=8	Pass
		2462	/	/	-17.76	-19.87	/	<=8	Pass
802.11n (HT20)	MIMO	2412	/	/	-17.08	-19.10	-15.71	<=8	Pass
		2437	/	/	-16.78	-18.04	-14.37	<=8	Pass
		2462	/	/	-14.11	-16.33	-12.07	<=8	Pass
802.11n (HT40)	MIMO	2422	/	/	-22.87	-25.49	-21.04	<=8	Pass
		2437	/	/	-22.41	-24.21	-20.81	<=8	Pass
		2452	/	/	-22.88	-24.70	-21.16	<=8	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	-21.55	-22.13	-19.55	<=8	Pass
		2437	RU242	Left	-21.53	-23.52	-20.03	<=8	Pass
		2462	RU242	Left	-22.10	-22.85	-20.02	<=8	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	-23.22	-24.92	-21.72	<=8	Pass
		2437	RU484	Left	-21.97	-24.88	-20.80	<=8	Pass
		2452	RU484	Left	-23.22	-24.63	-21.39	<=8	Pass

Note1: Antenna Gain: Ant1: 2.98dBi; Ant2: 2.98dBi;

Note2: Directional Gain: Band1: 5.99dBi

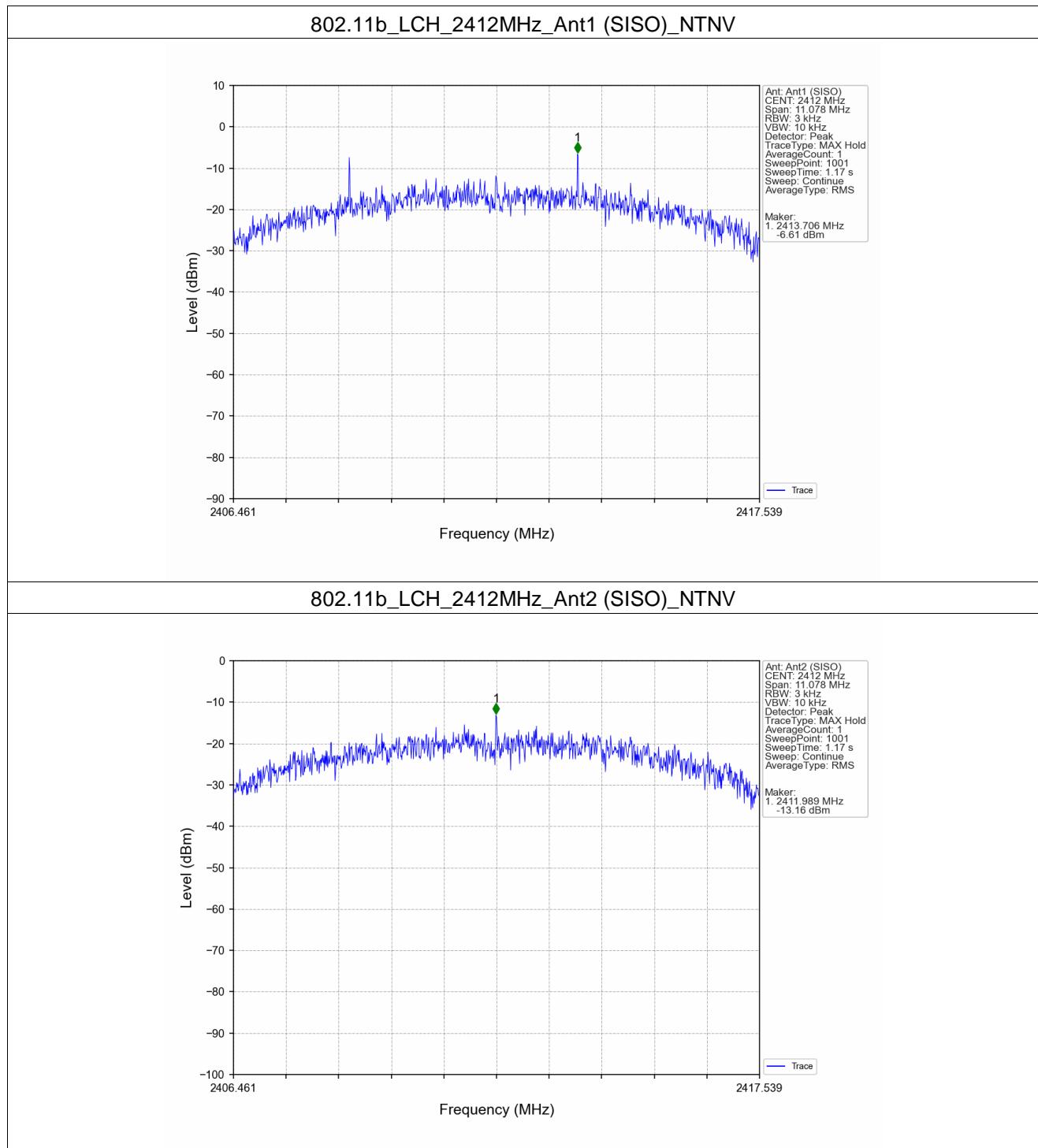


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4.2 Test Graph

4.2.1 PSD



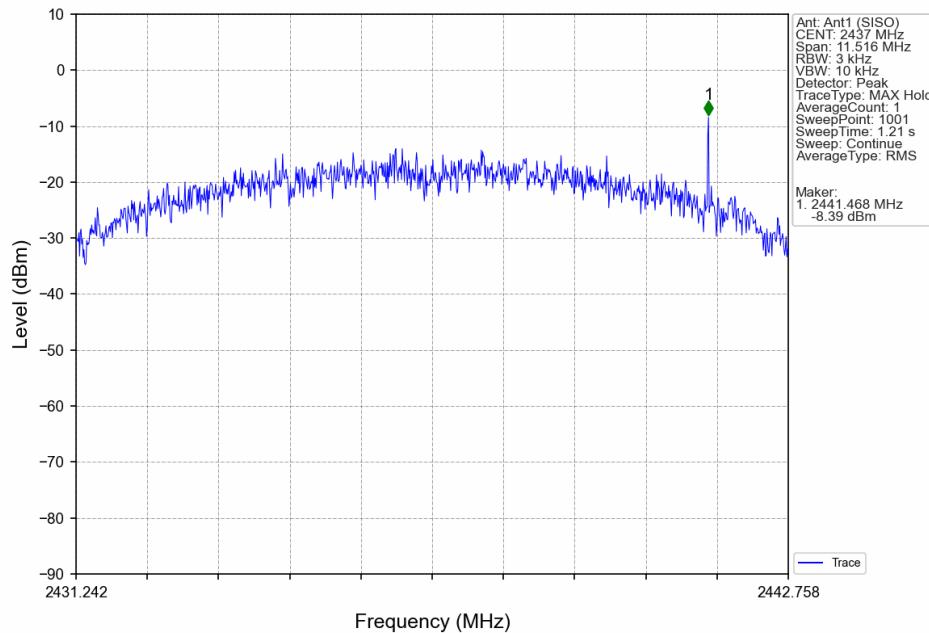
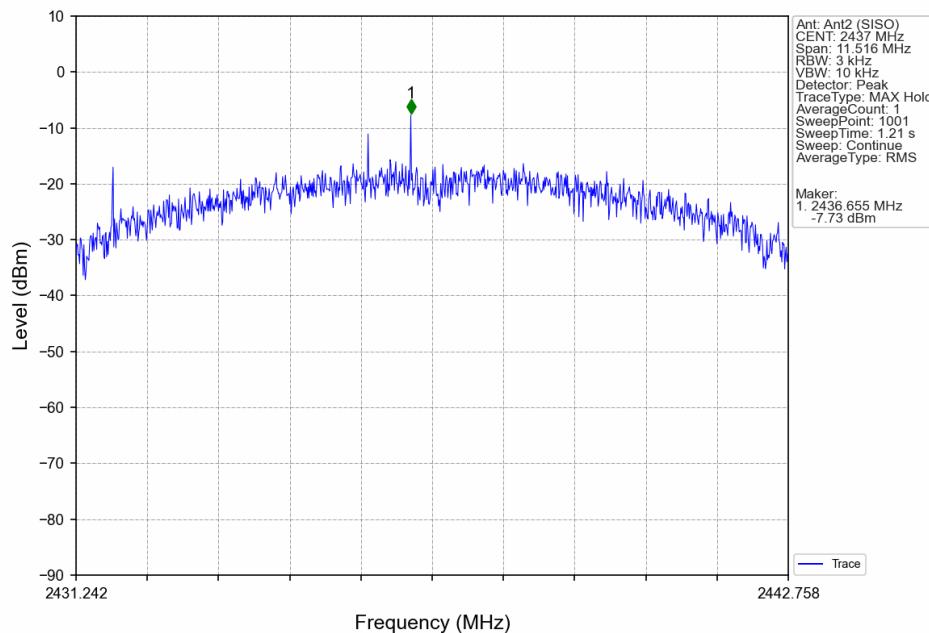
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802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV**802.11b_MCH_2437MHz_Ant2 (SISO)_NTNV**

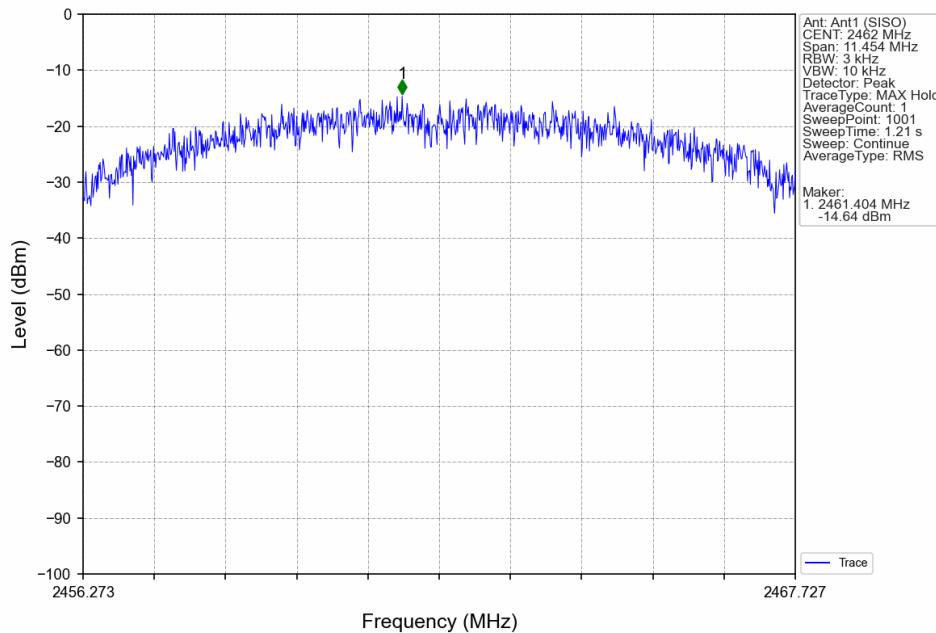
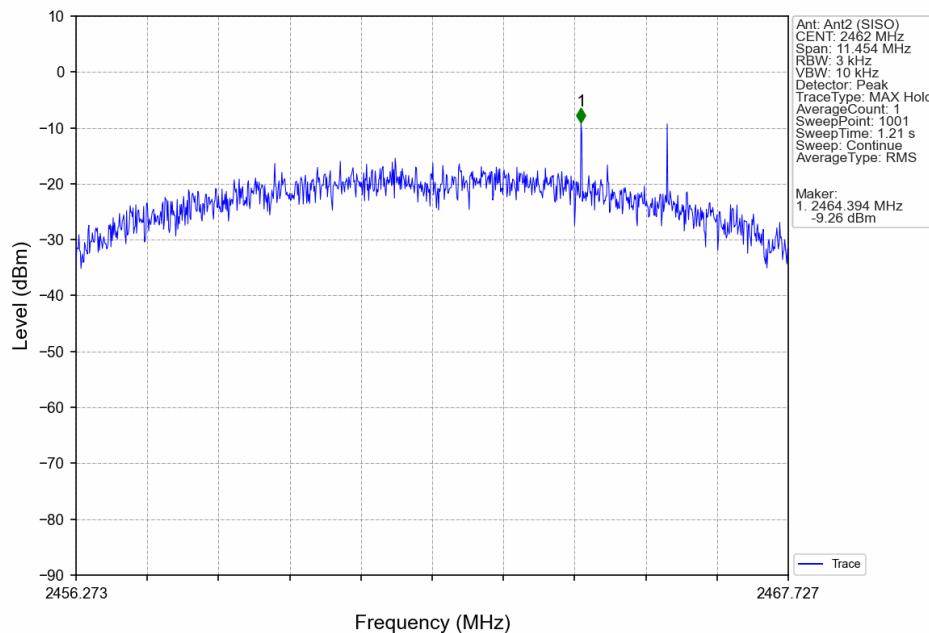
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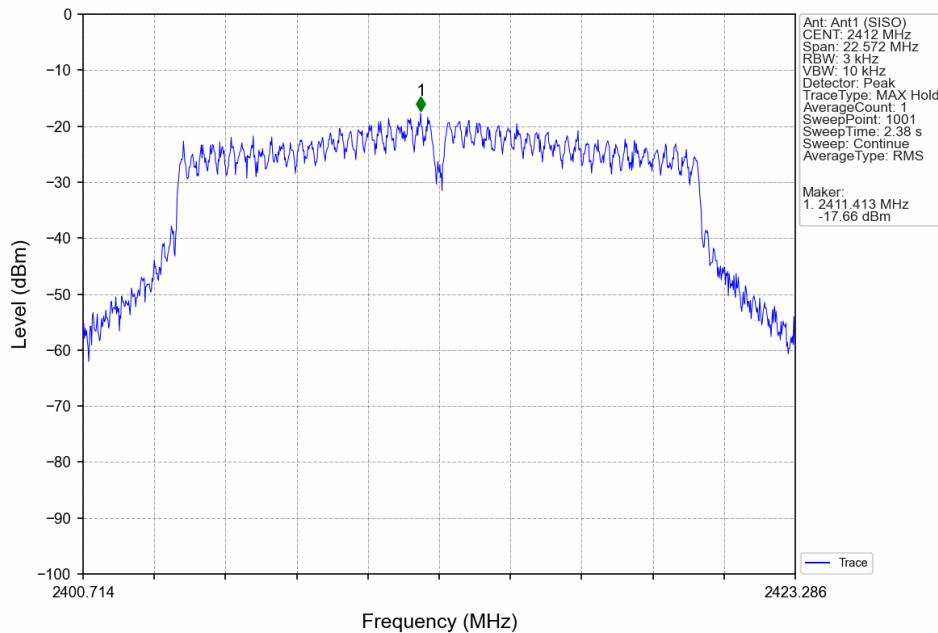
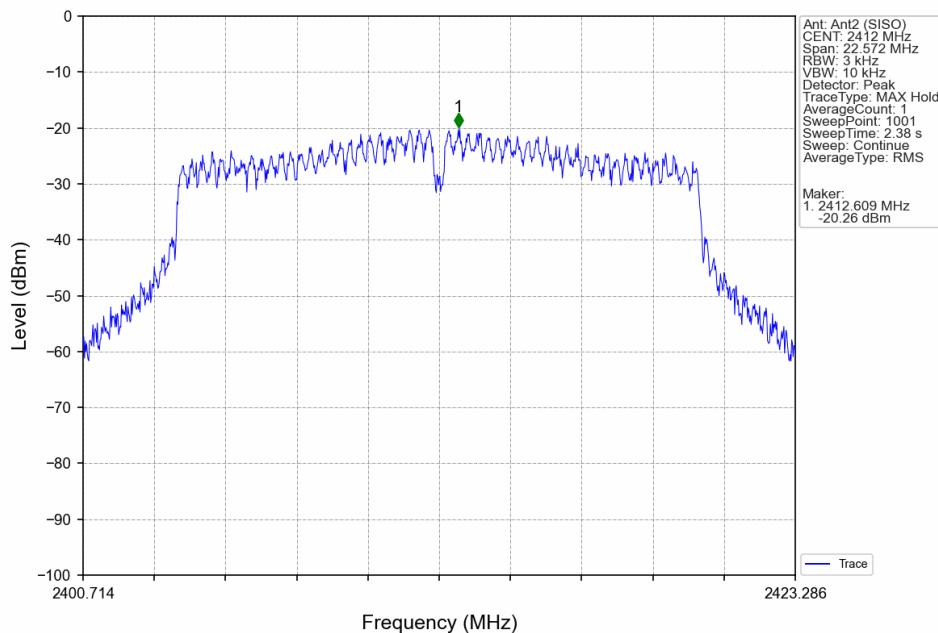
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV**802.11b_HCH_2462MHz_Ant2 (SISO)_NTNV**

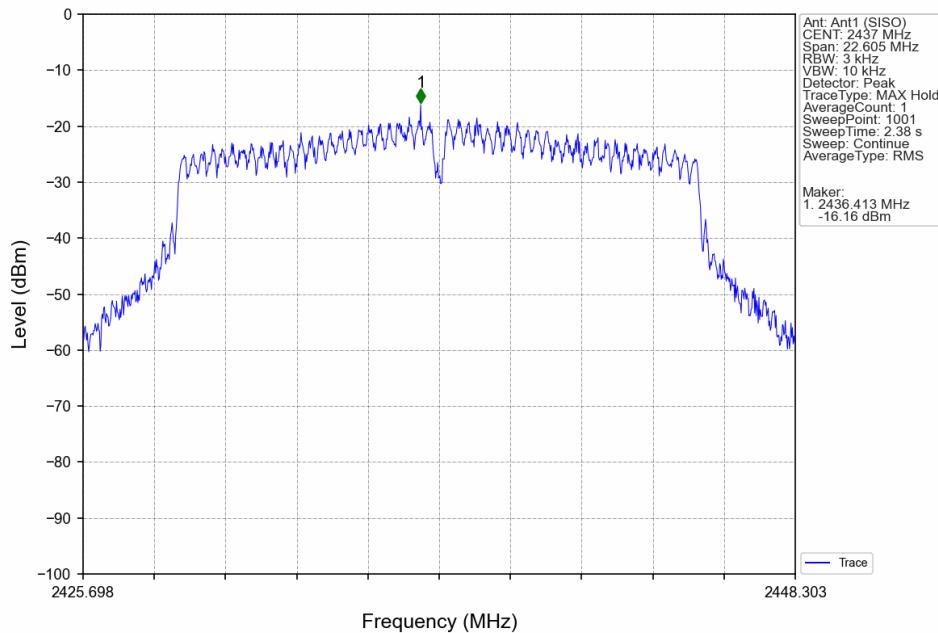
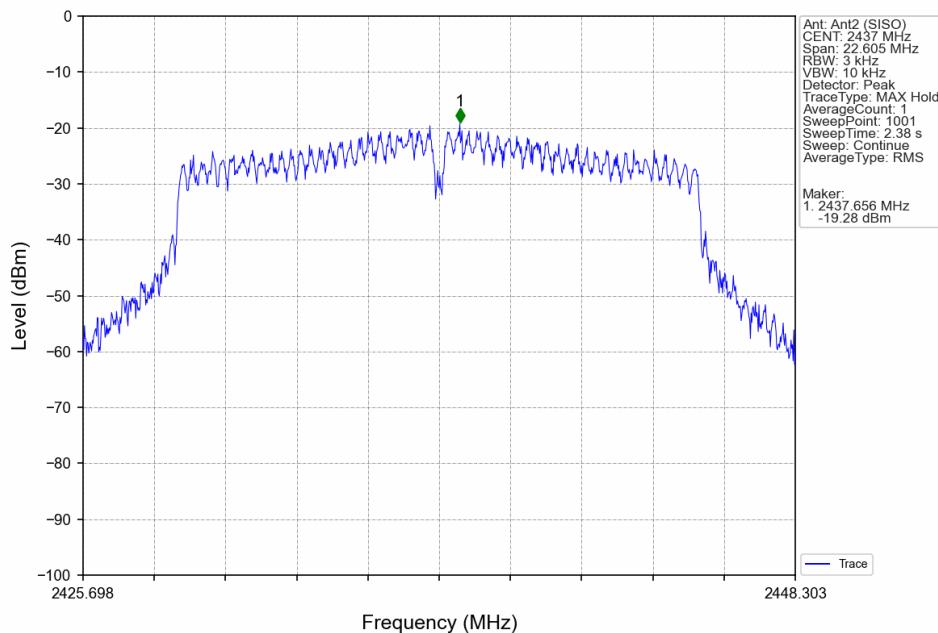
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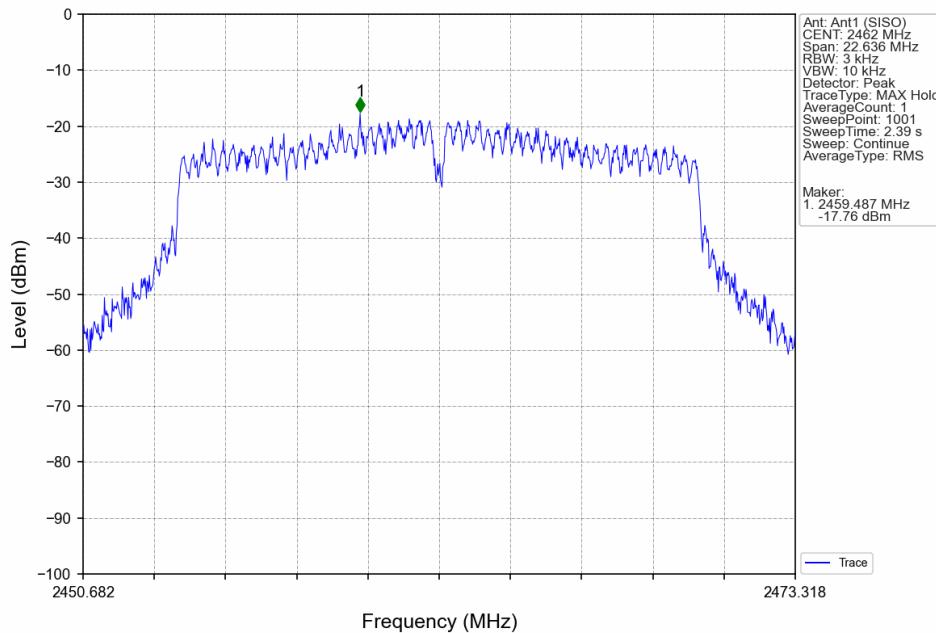
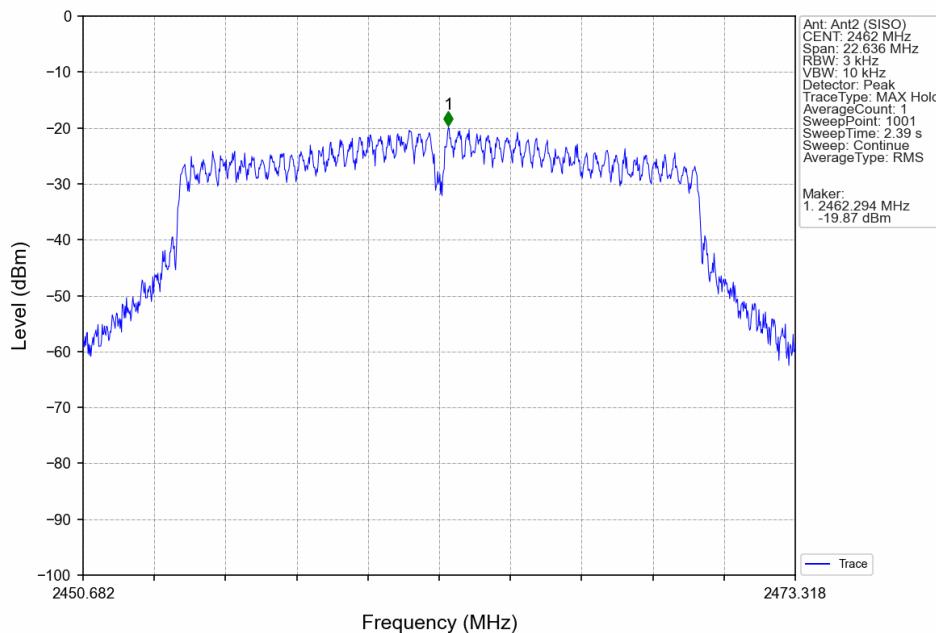
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV**802.11g_MCH_2437MHz_Ant2 (SISO)_NTNV**

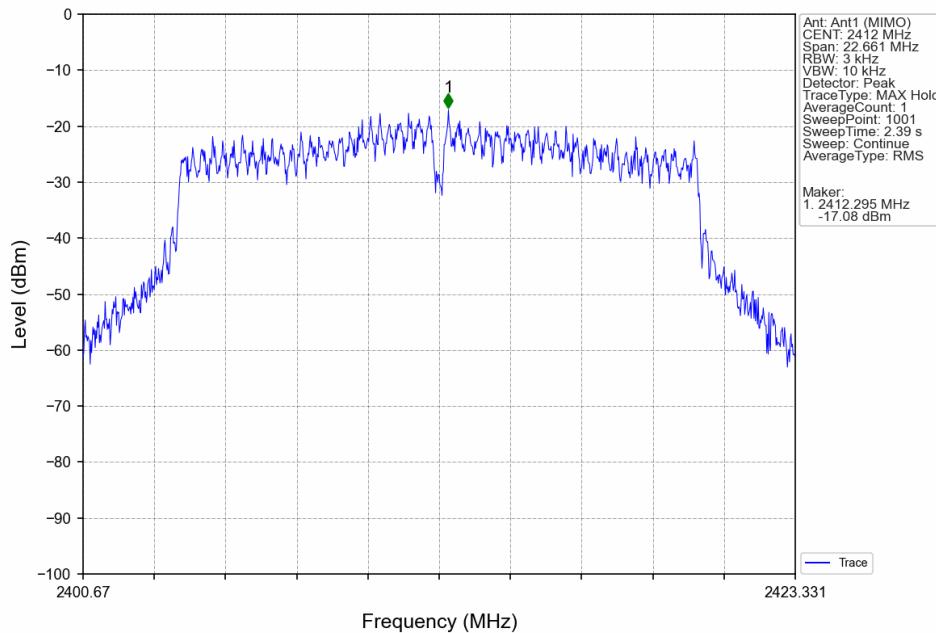
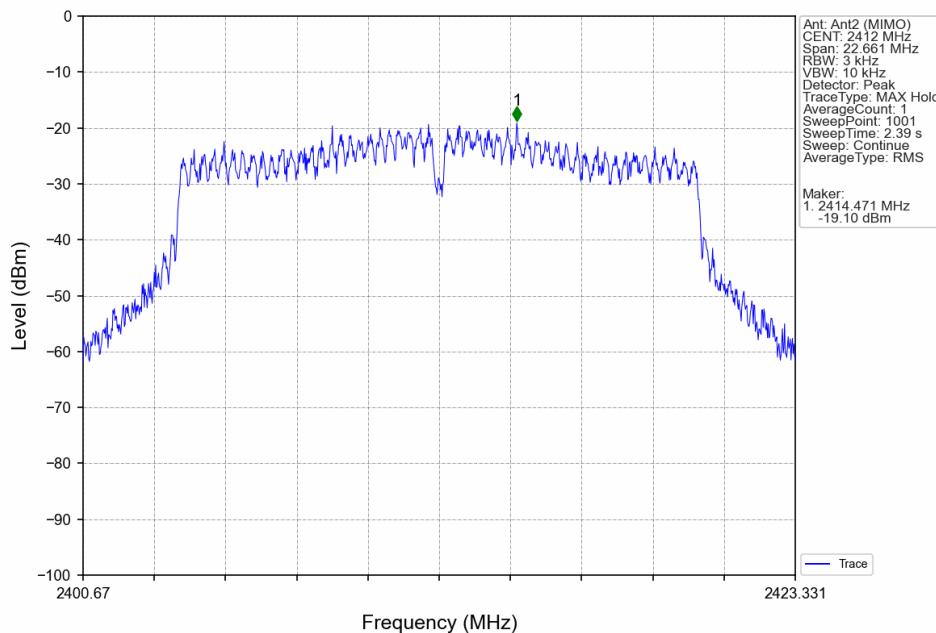
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802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV**802.11g_HCH_2462MHz_Ant2 (SISO)_NTNV**

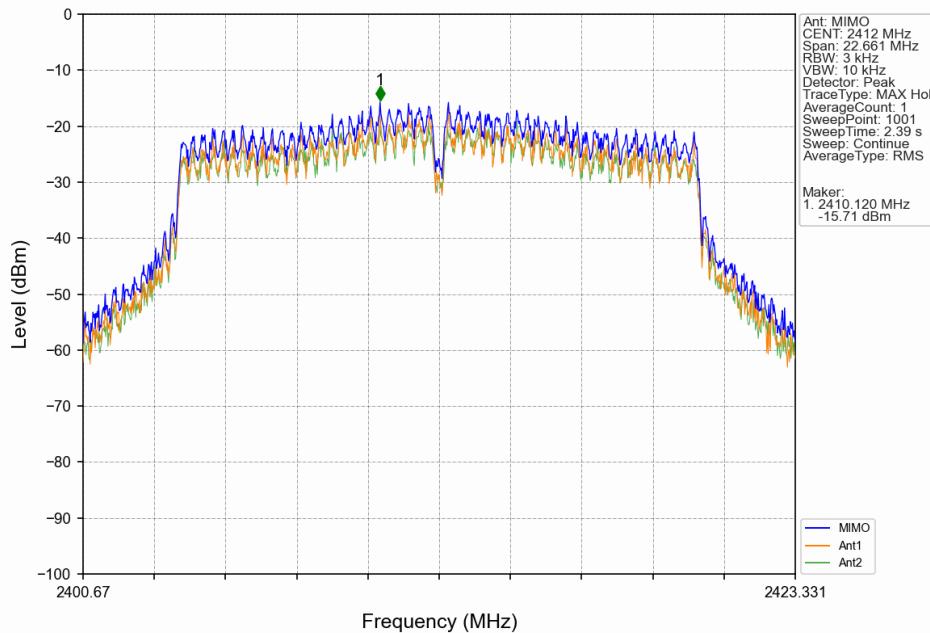
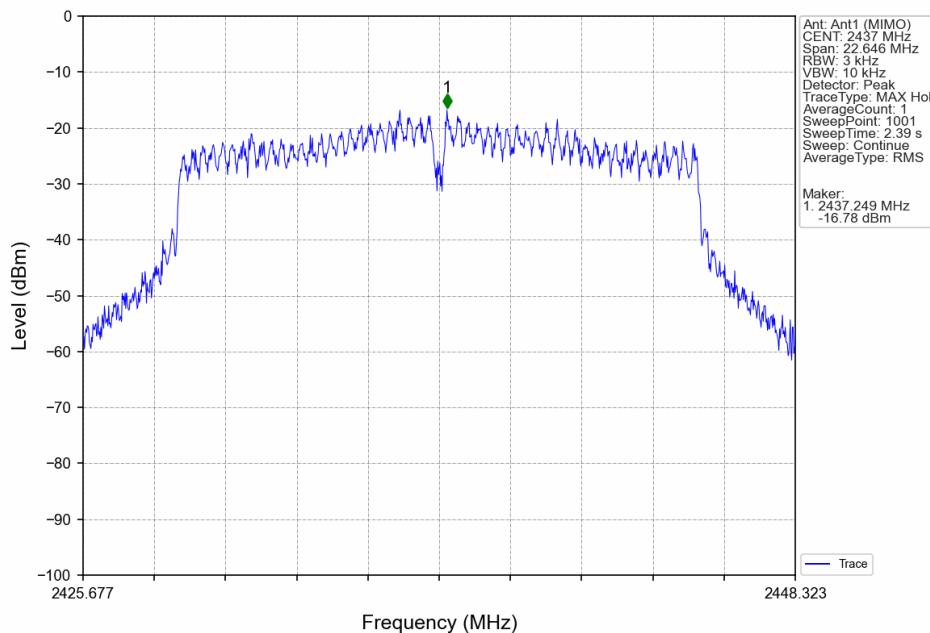
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802.11n(HT20)_LCH_2412MHz_Ant1 (MIMO)_NTNV**802.11n(HT20)_LCH_2412MHz_Ant2 (MIMO)_NTNV**

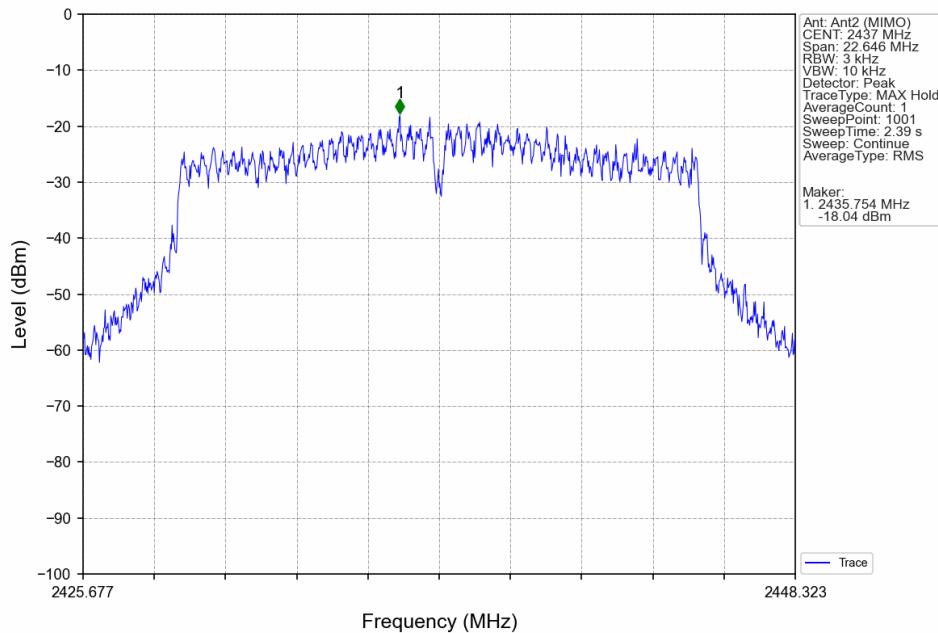
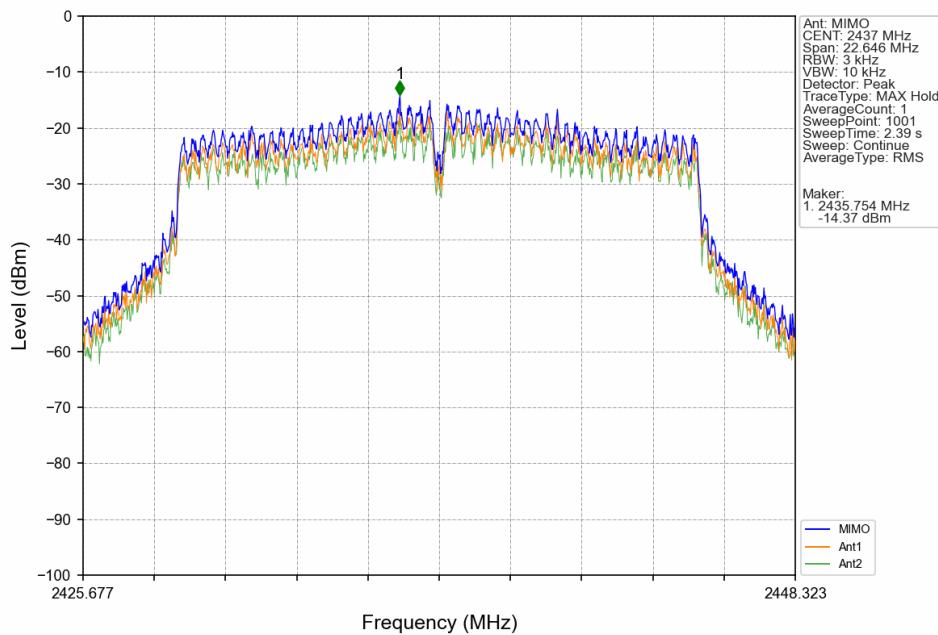
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802.11n(HT20)_LCH_2412MHz_MIMO_NTNV**802.11n(HT20)_MCH_2437MHz_Ant1 (MIMO)_NTNV**

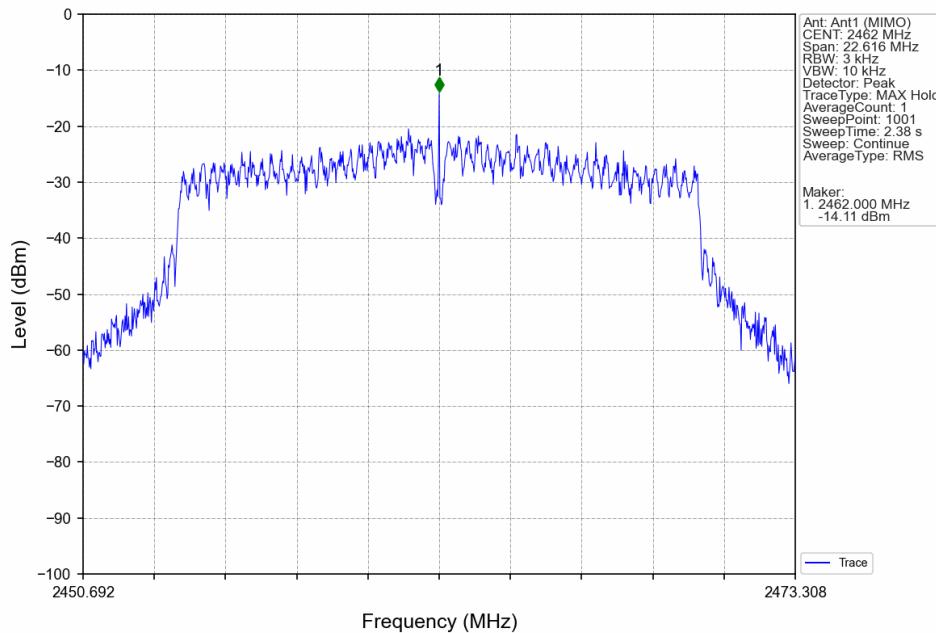
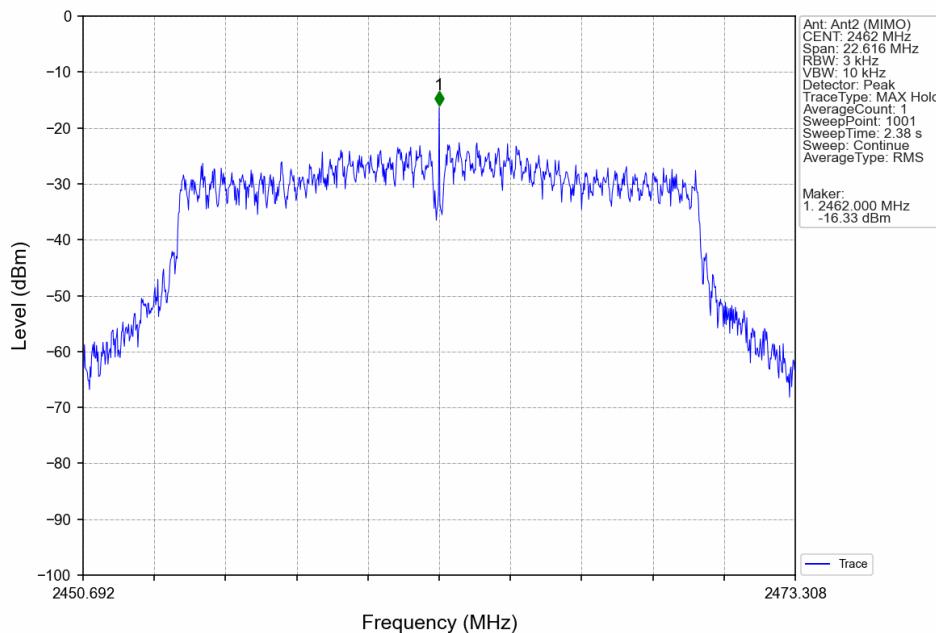
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802.11n(HT20)_MCH_2437MHz_Ant2 (MIMO)_NTNV**802.11n(HT20)_MCH_2437MHz_MIMO_NTNV**

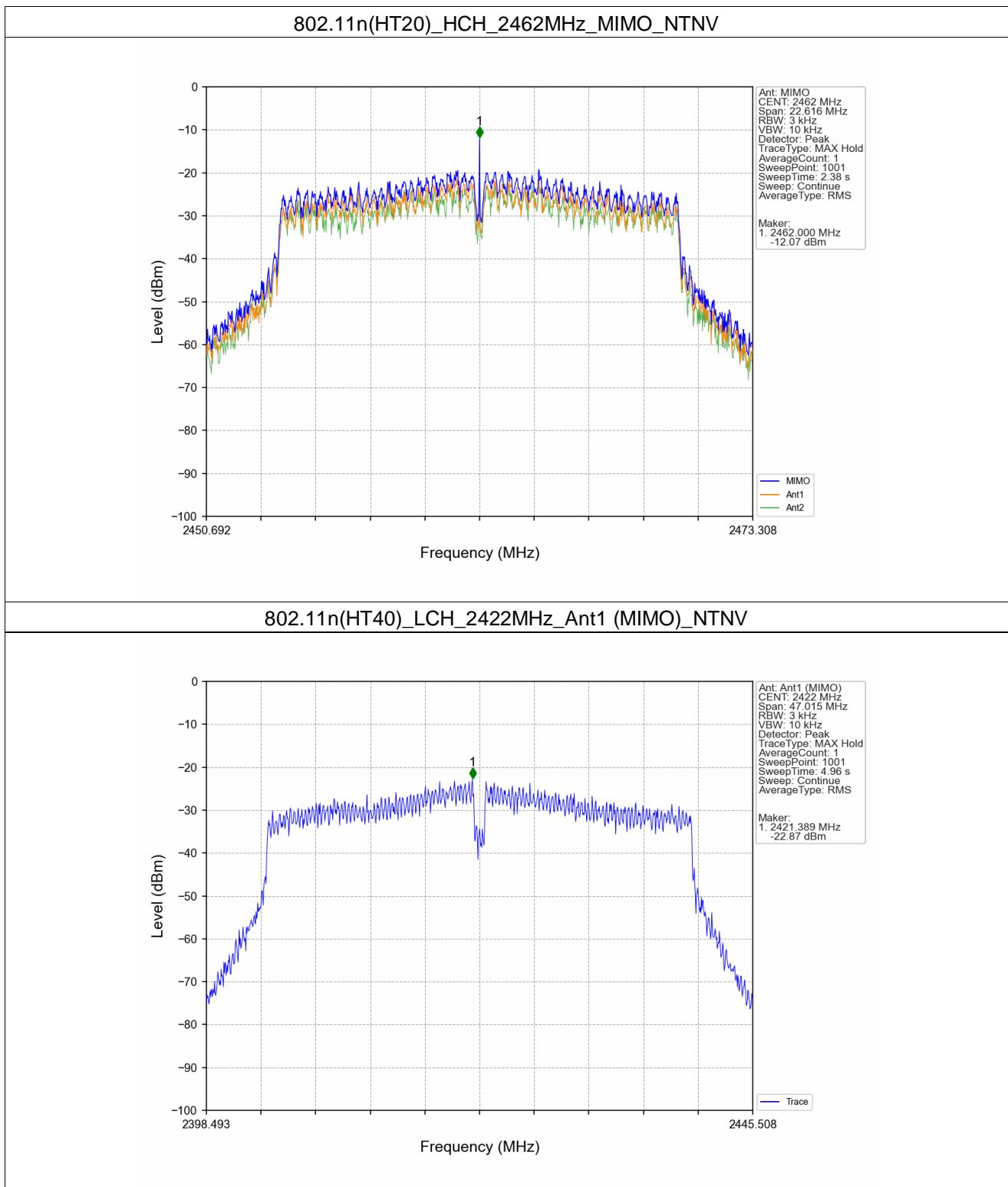
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802.11n(HT20)_HCH_2462MHz_Ant1 (MIMO)_NTNV**802.11n(HT20)_HCH_2462MHz_Ant2 (MIMO)_NTNV**

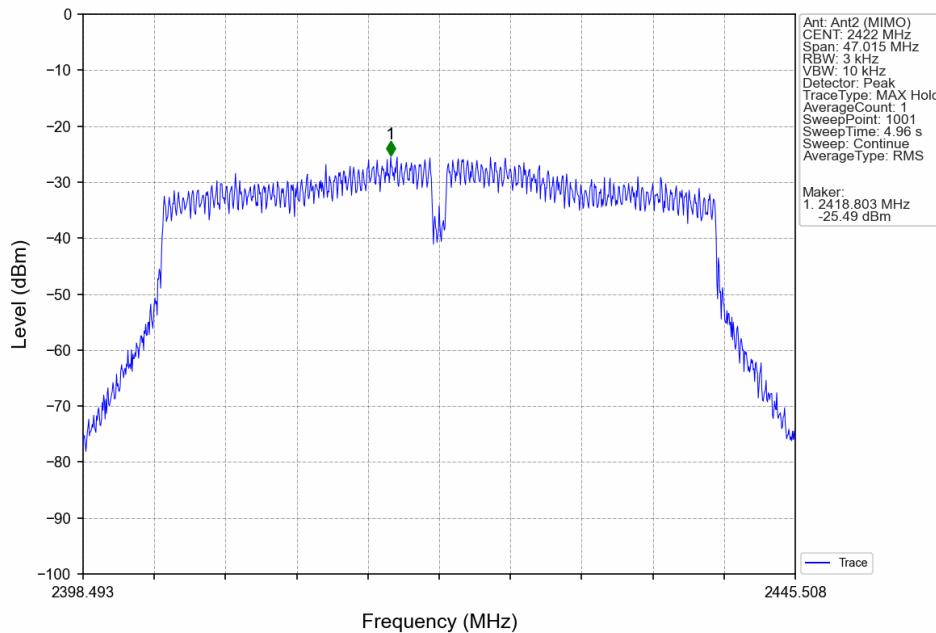
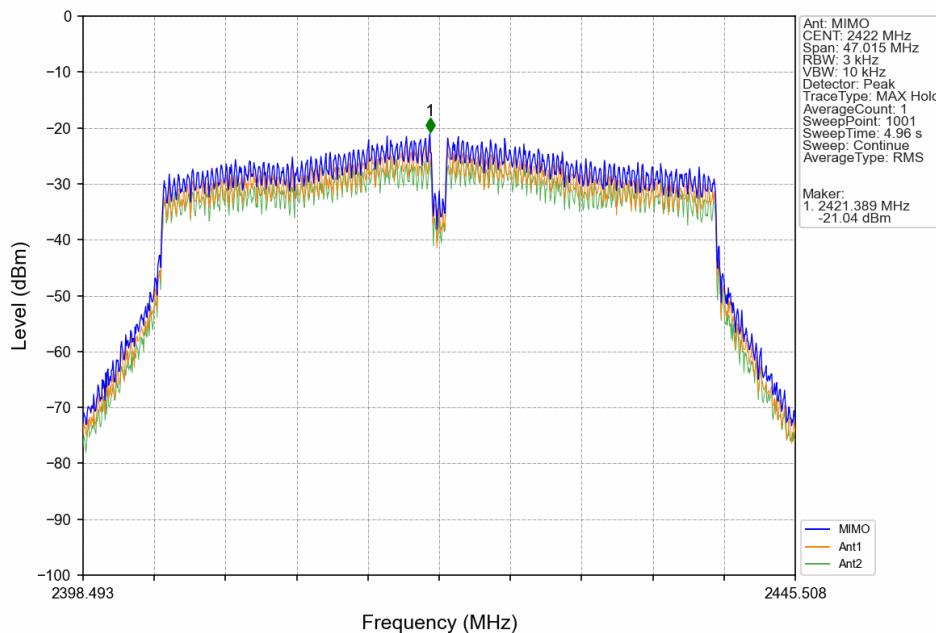
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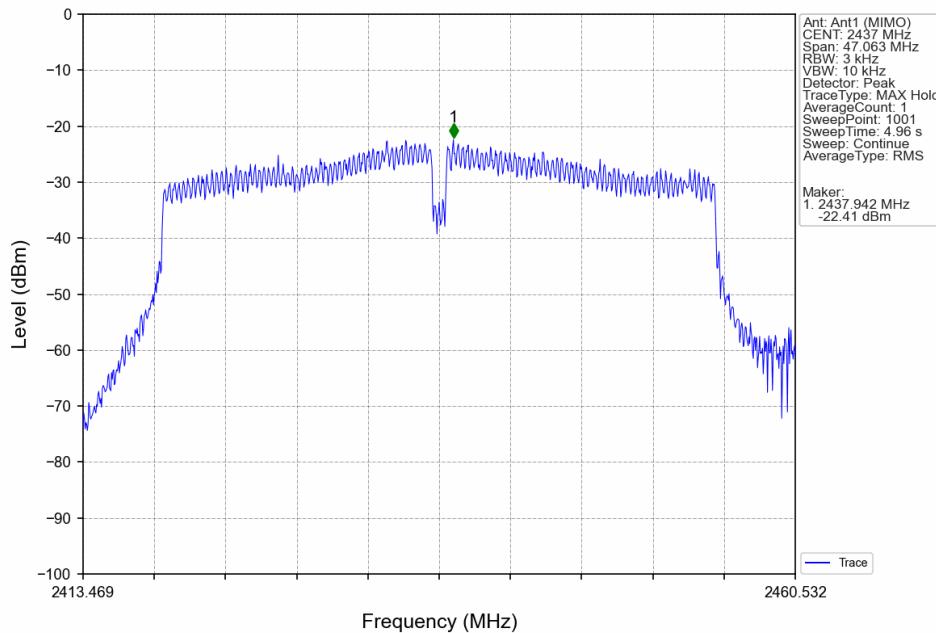
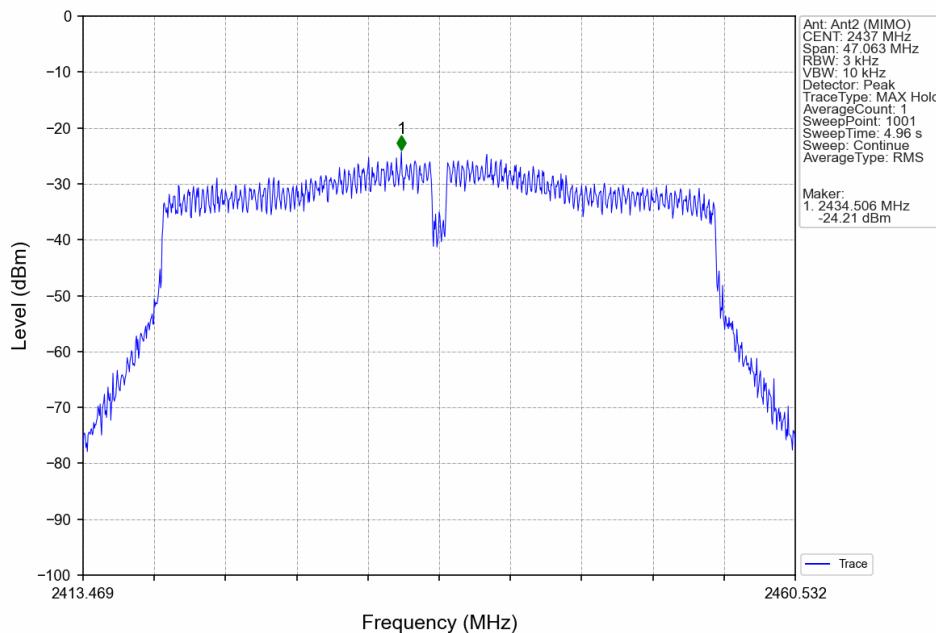
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802.11n(HT40)_LCH_2422MHz_Ant2 (MIMO)_NTNV**802.11n(HT40)_LCH_2422MHz_MIMO_NTNV**

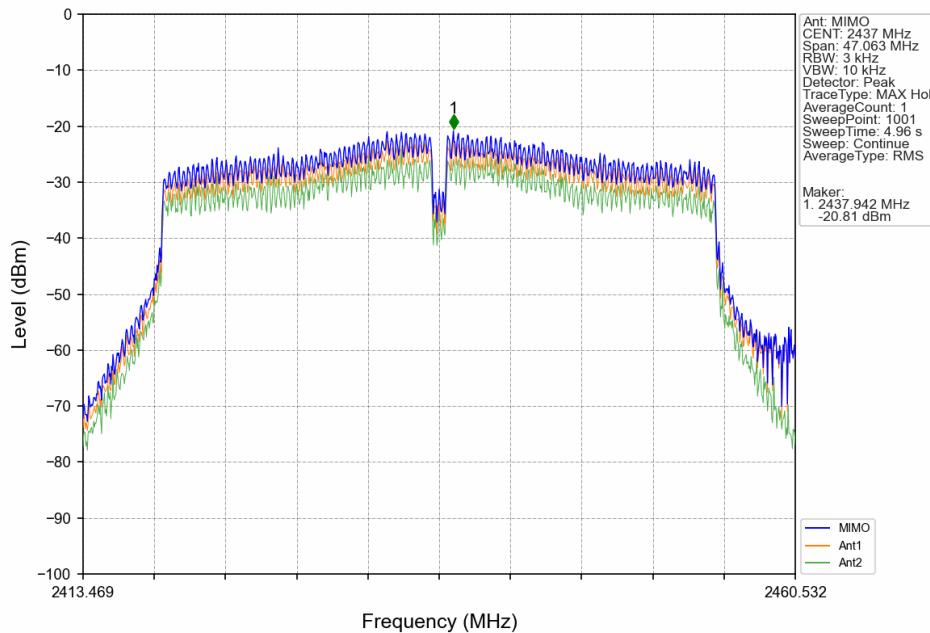
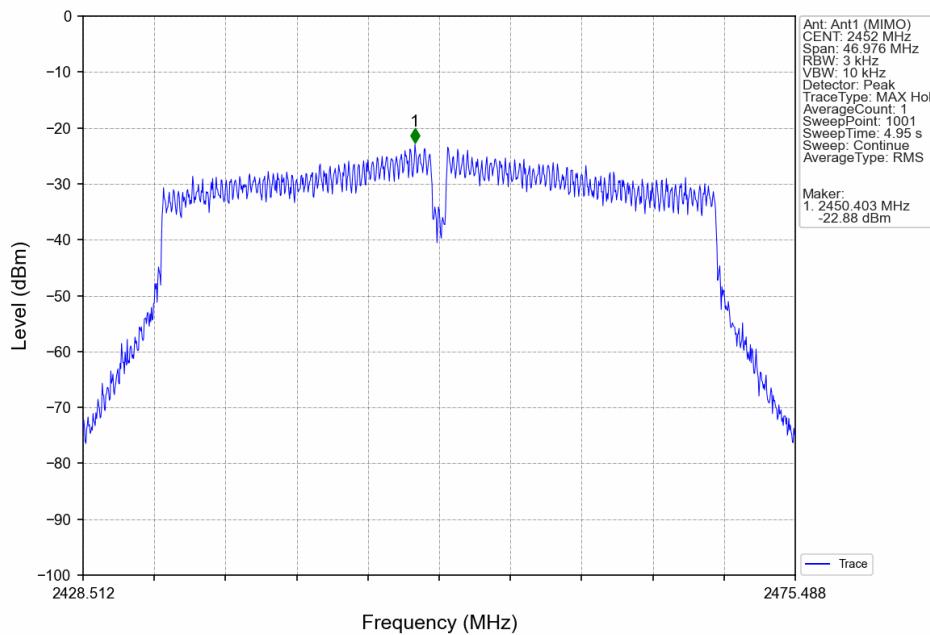
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802.11n(HT40)_MCH_2437MHz_Ant1 (MIMO)_NTNV**802.11n(HT40)_MCH_2437MHz_Ant2 (MIMO)_NTNV**

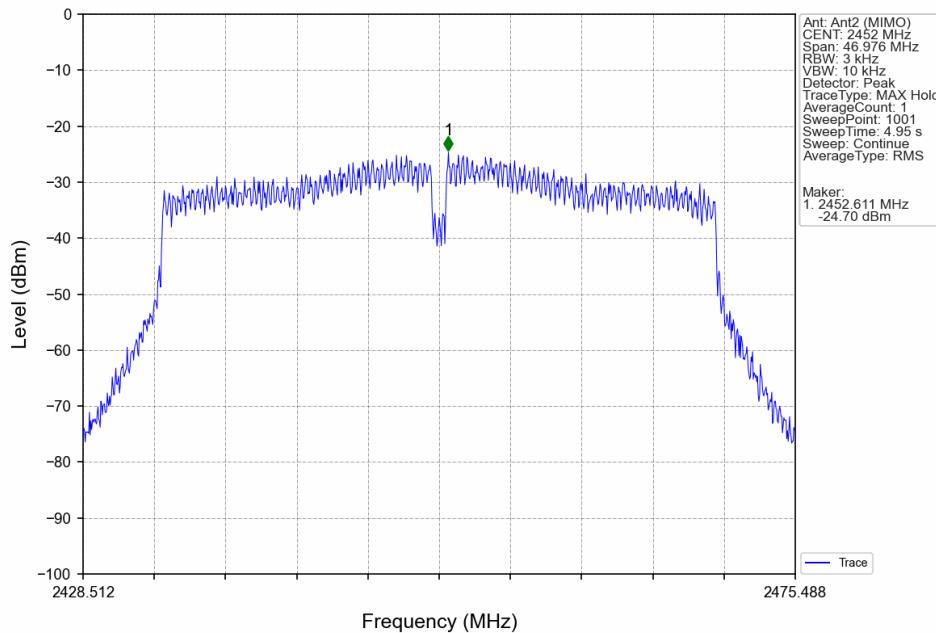
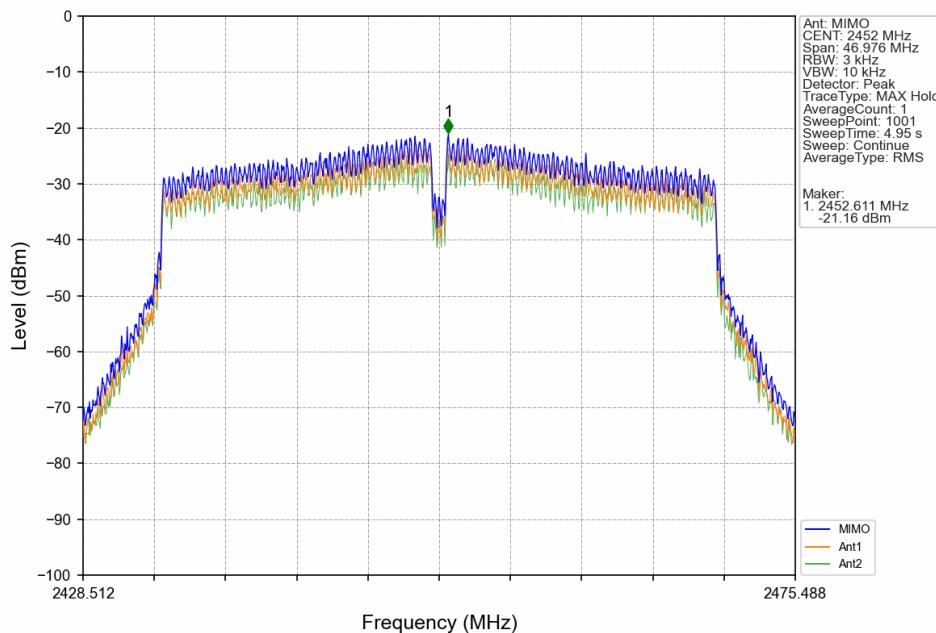
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802.11n(HT40)_MCH_2437MHz_MIMO_ntnv**802.11n(HT40)_HCH_2452MHz_Ant1 (MIMO)_ntnv**

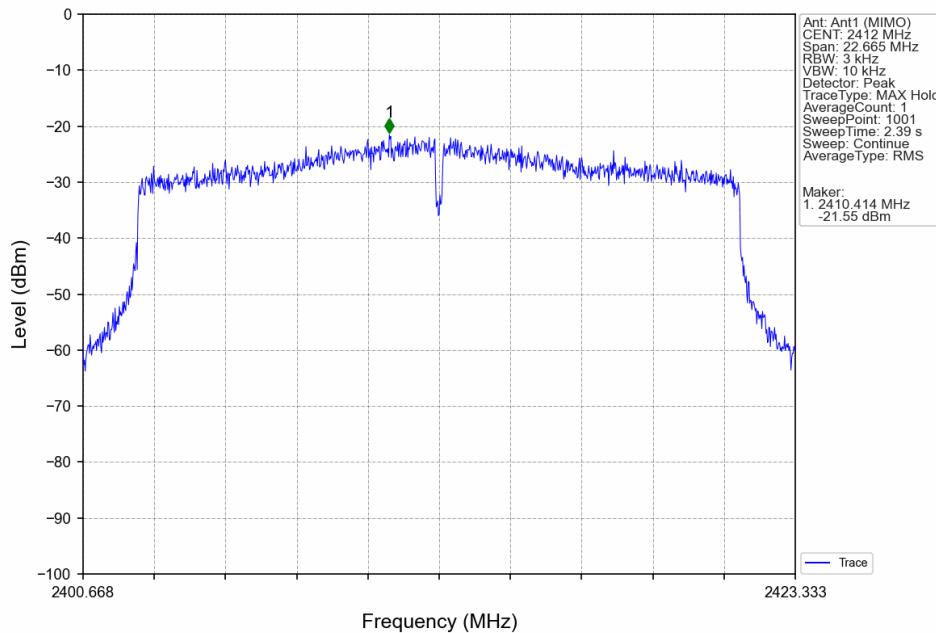
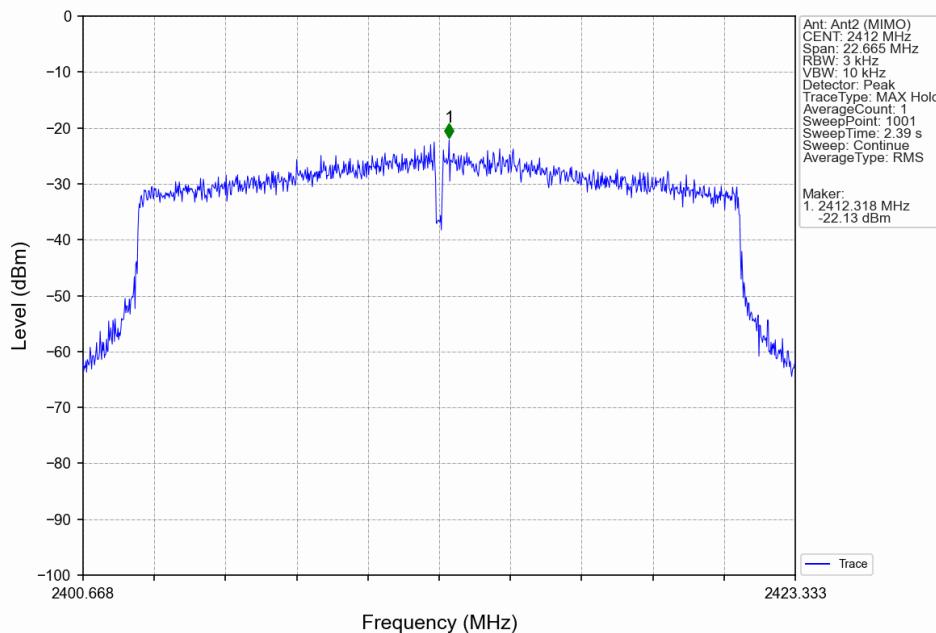
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802.11n(HT40)_HCH_2452MHz_Ant2 (MIMO)_NTNV**802.11n(HT40)_HCH_2452MHz_MIMO_NTNV**

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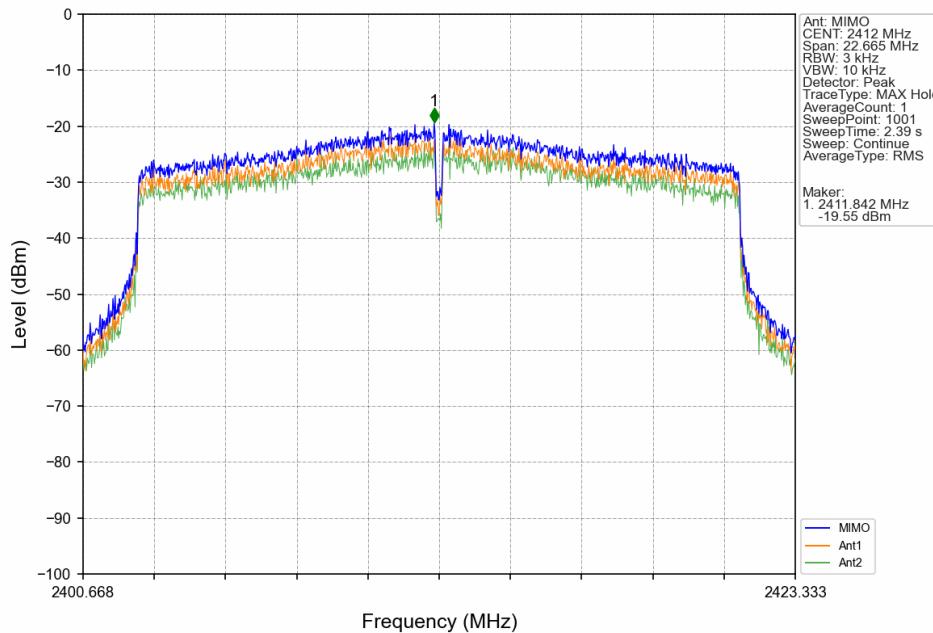
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802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant1 (MIMO)_NTNV**802.11ax(HEW20)_LCH_2412MHz_RU242_Left_Ant2 (MIMO)_NTNV**

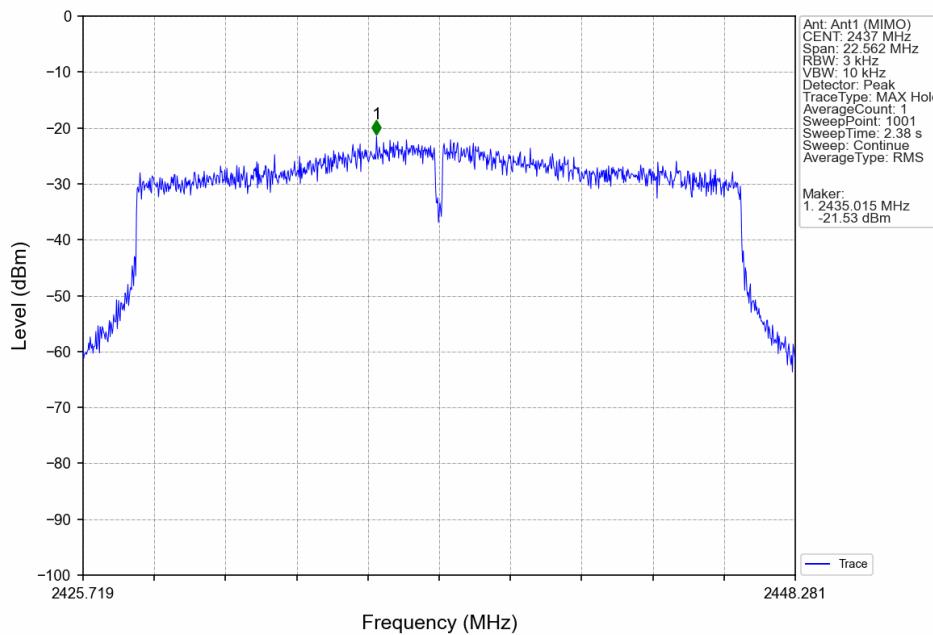
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802.11ax(HEW20)_LCH_2412MHz_RU242_Left_MIMO_NTNV



802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant1 (MIMO)_NTNV



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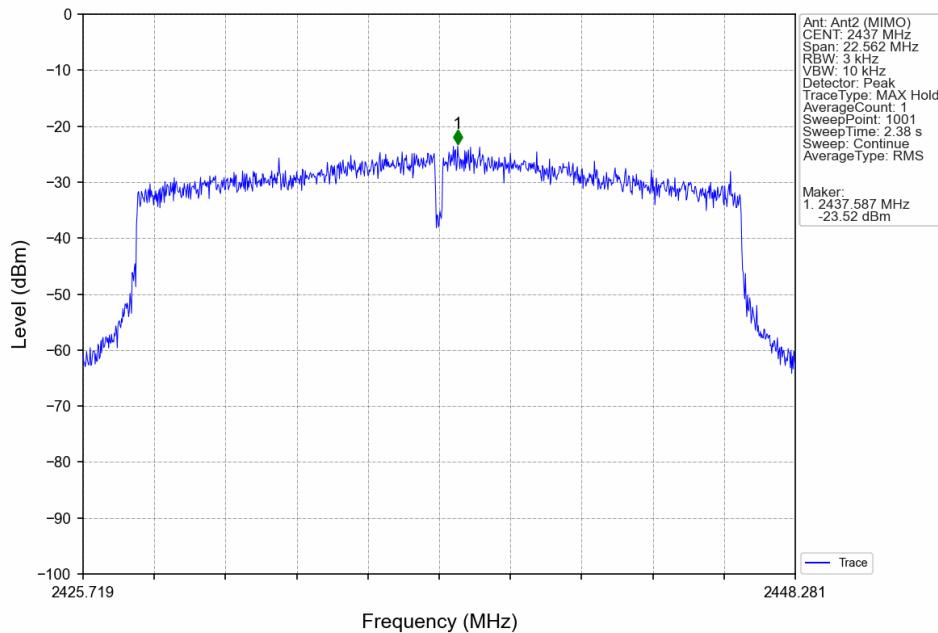
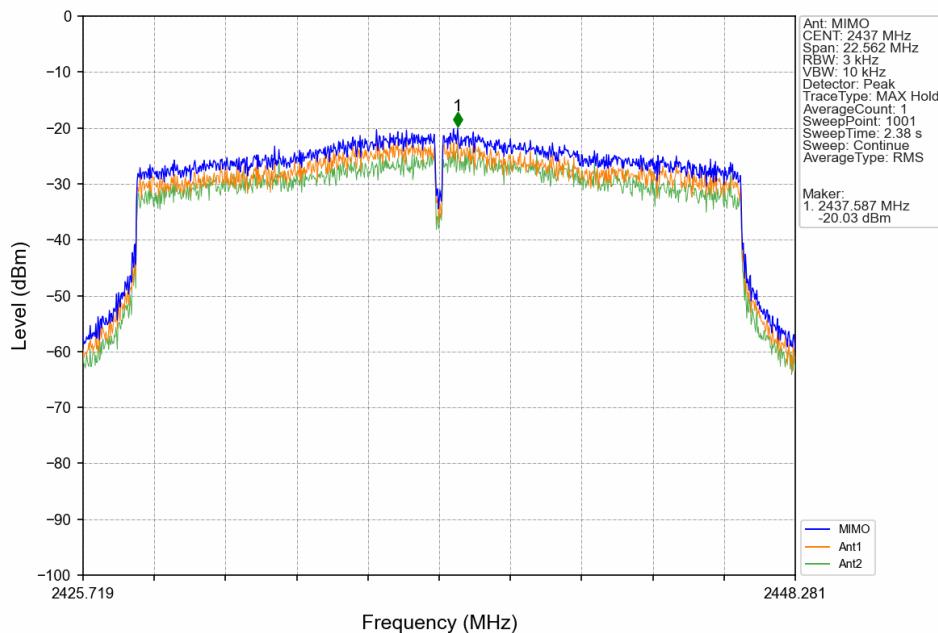
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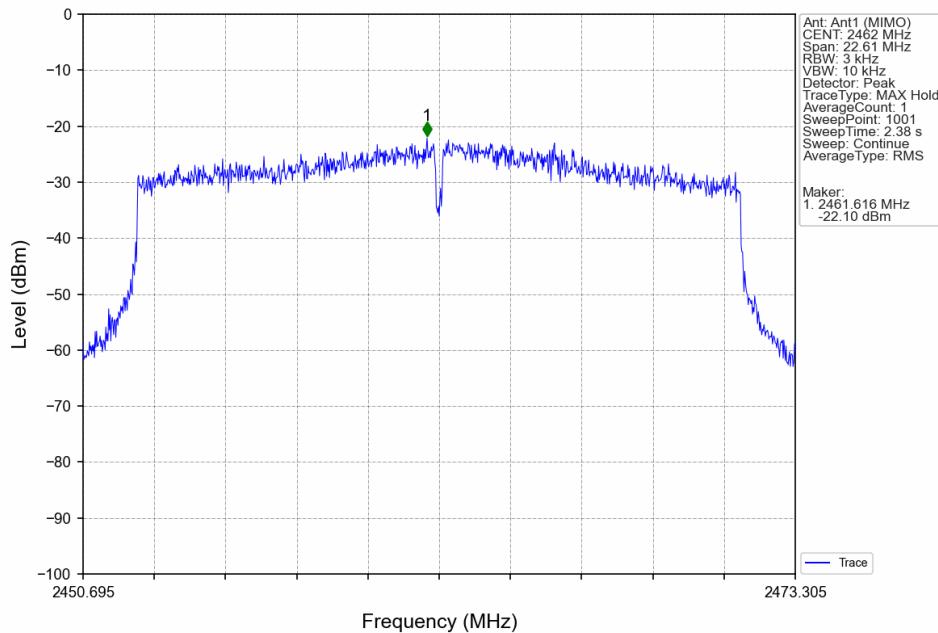
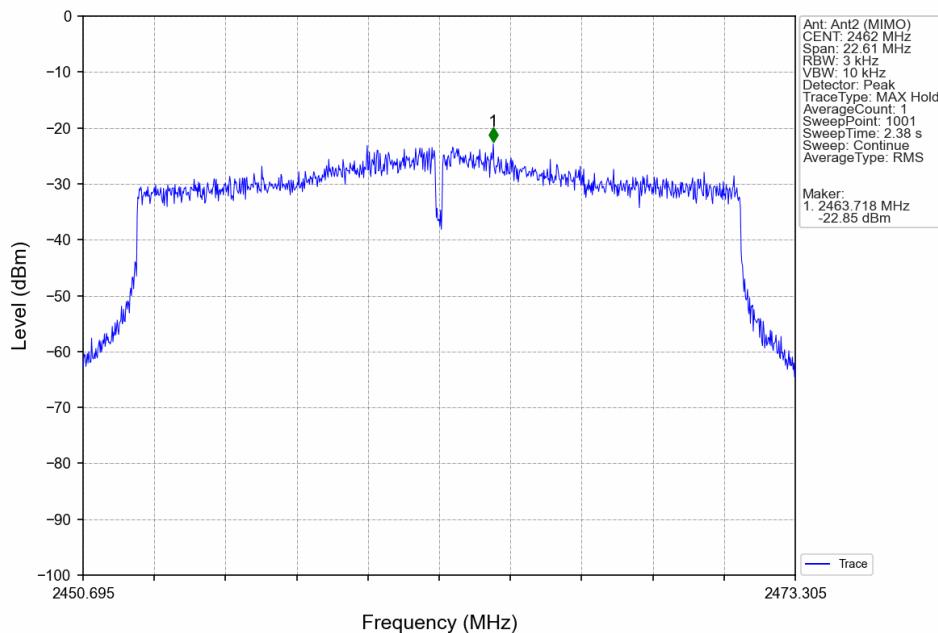
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中国·广东·广州高新技术产业开发区科学城科珠路198号

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t (86-20) 82155555 sgs.china@sgs.com

802.11ax(HEW20)_MCH_2437MHz_RU242_Left_Ant2 (MIMO)_NTNV**802.11ax(HEW20)_MCH_2437MHz_RU242_Left_MIMO_NTNV**

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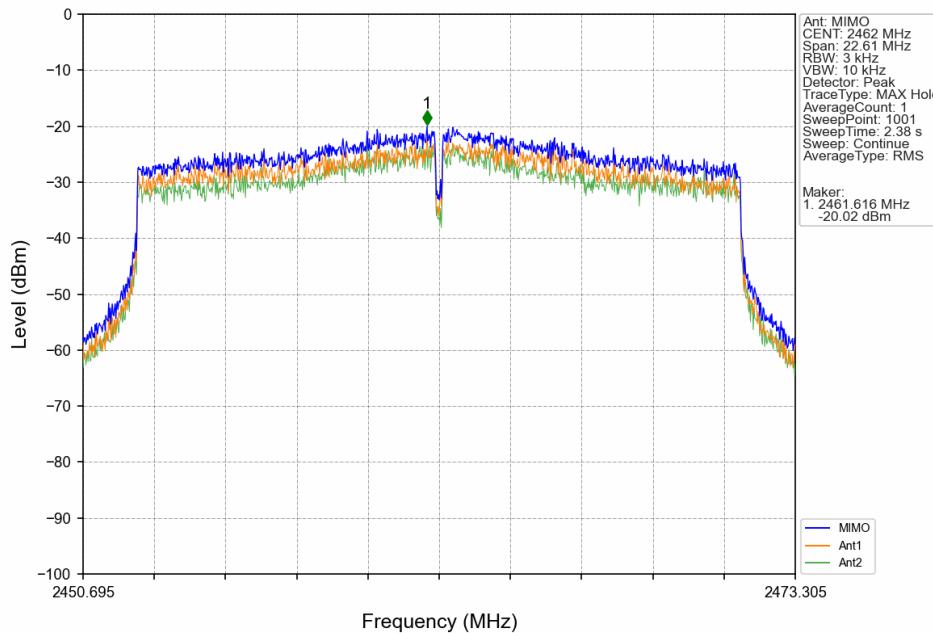
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802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant1 (MIMO)_NTNV**802.11ax(HEW20)_HCH_2462MHz_RU242_Left_Ant2 (MIMO)_NTNV**

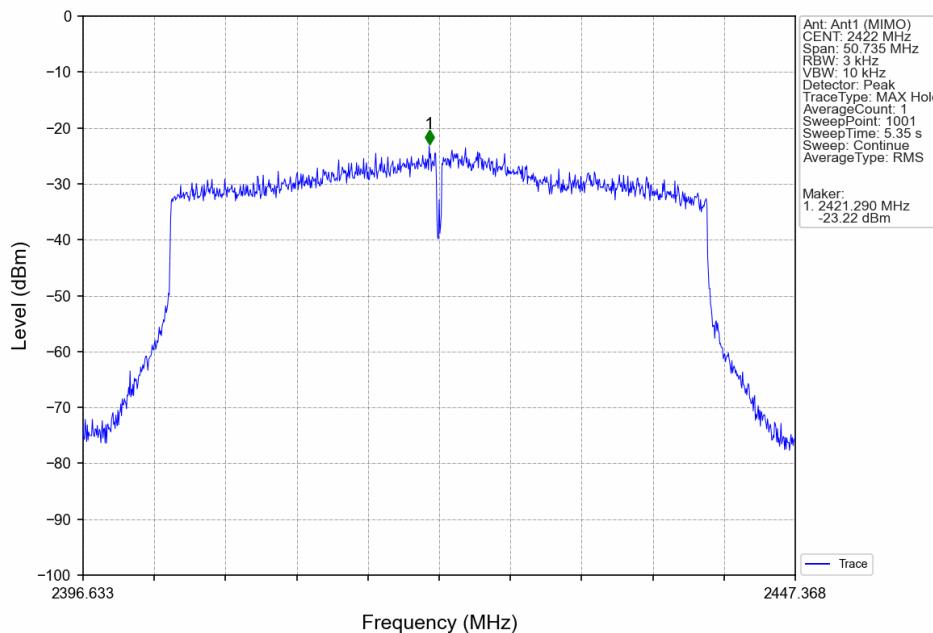
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802.11ax(HEW20)_HCH_2462MHz_RU242_Left_MIMO_NTNV

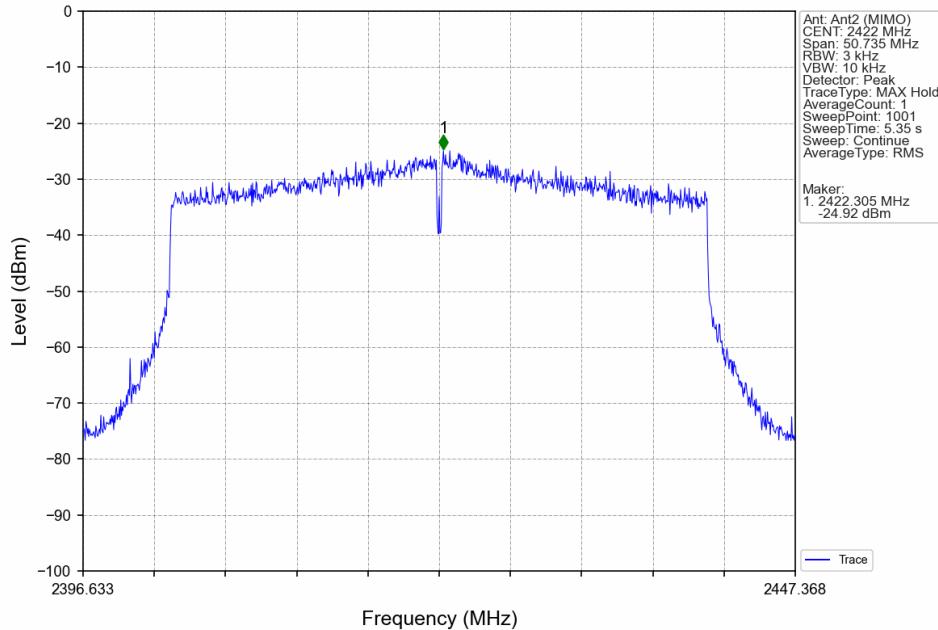
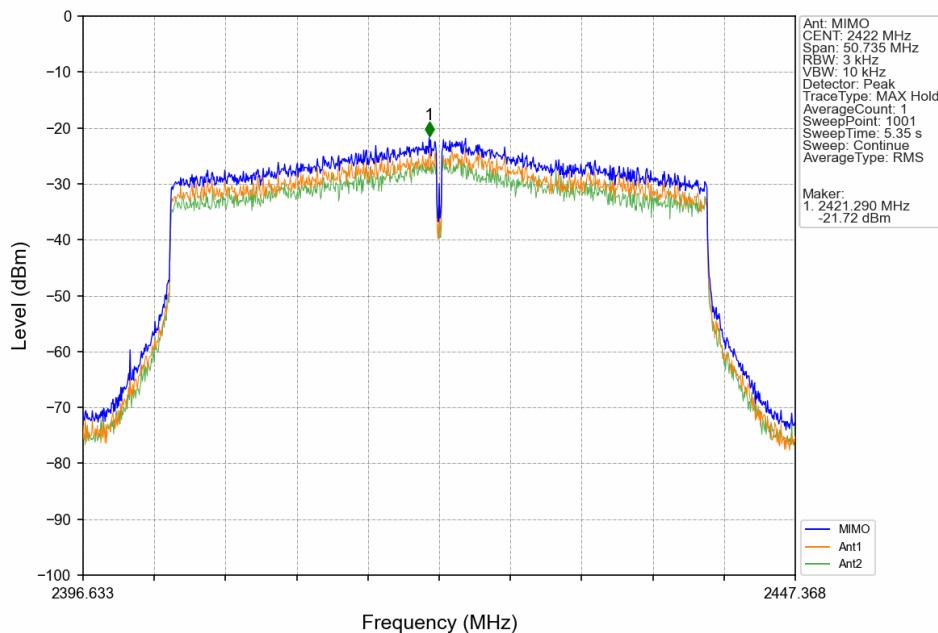


802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant1 (MIMO)_NTNV



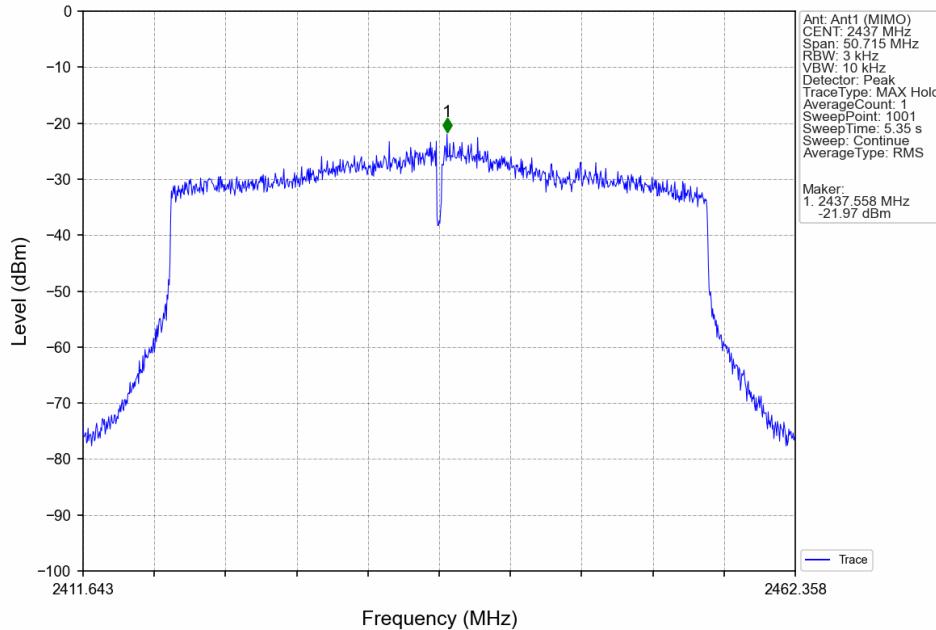
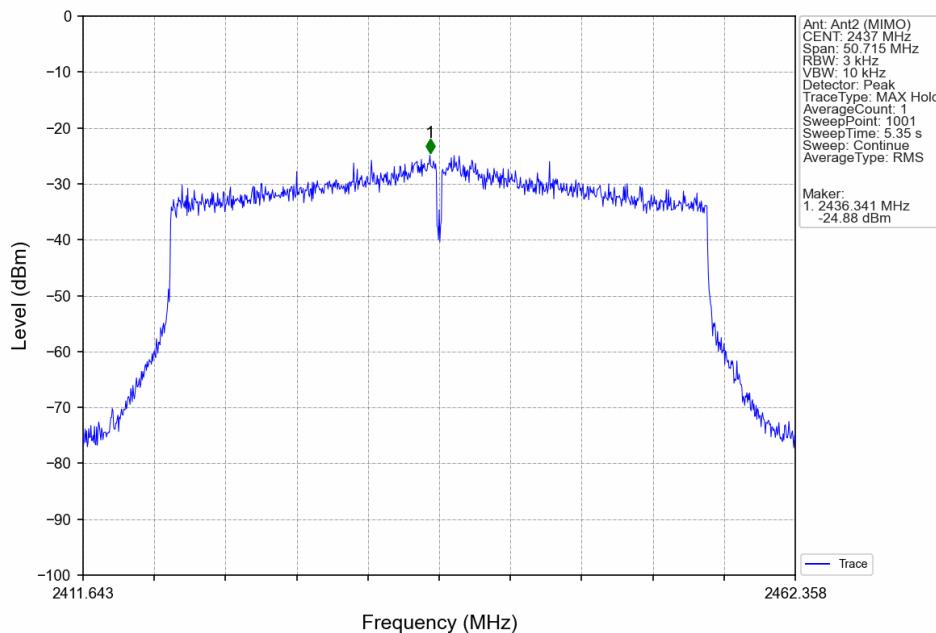
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802.11ax(HEW40)_LCH_2422MHz_RU484_Left_Ant2 (MIMO)_NTNV**802.11ax(HEW40)_LCH_2422MHz_RU484_Left_MIMO_NTNV**

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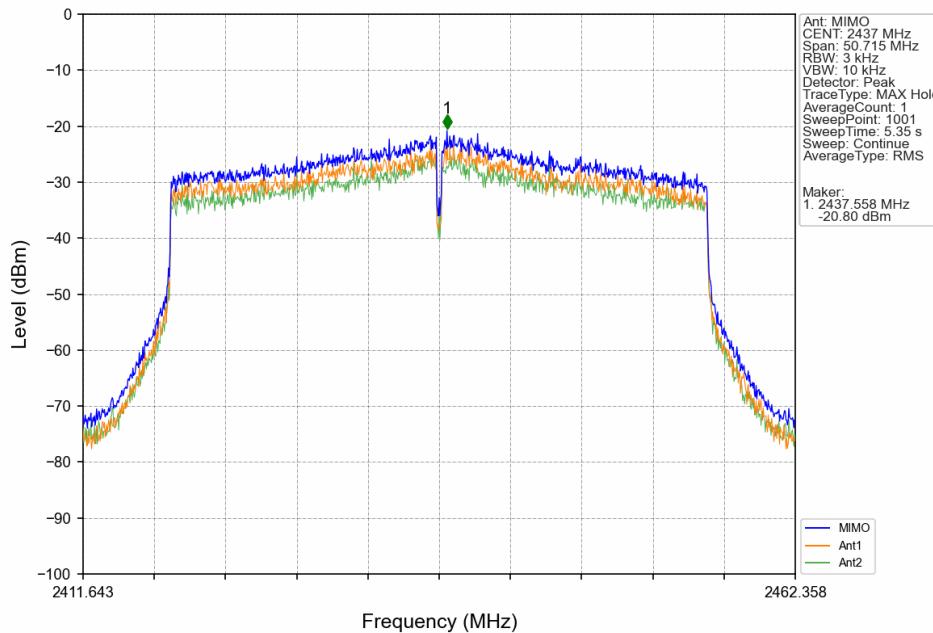
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802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant1 (MIMO)_NTNV**802.11ax(HEW40)_MCH_2437MHz_RU484_Left_Ant2 (MIMO)_NTNV**

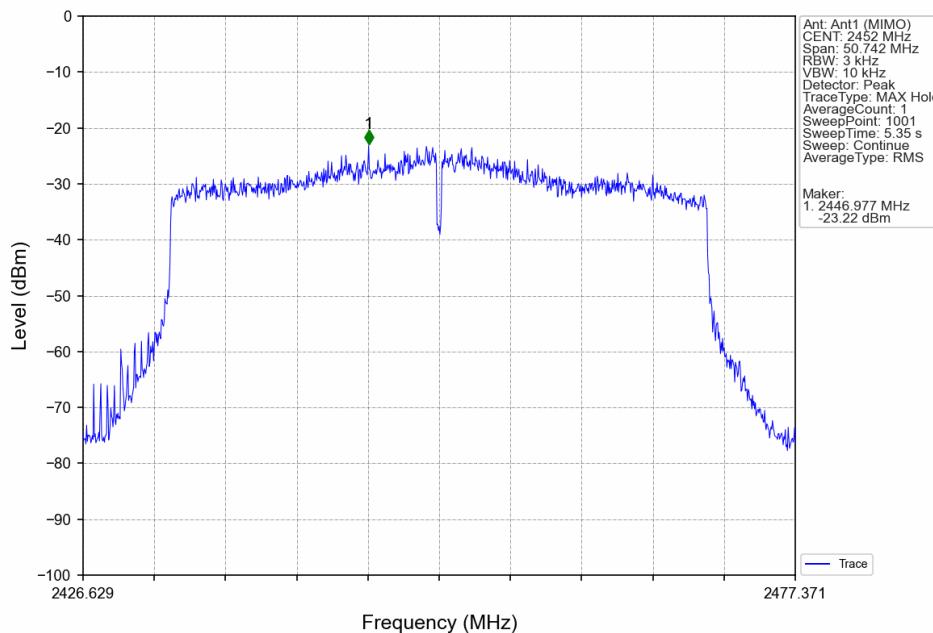
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802.11ax(HEW40)_MCH_2437MHz_RU484_Left_MIMO_NTNV

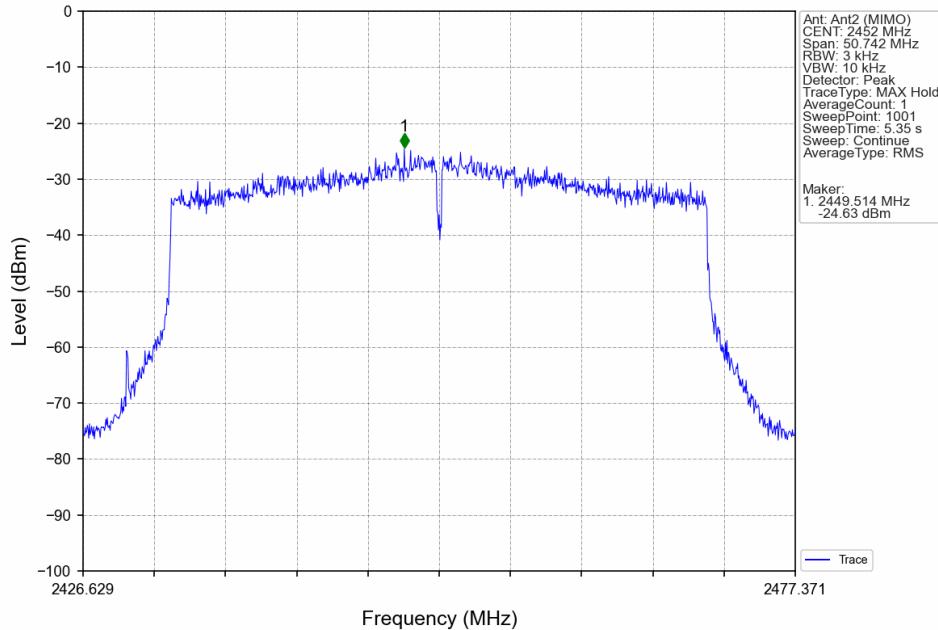
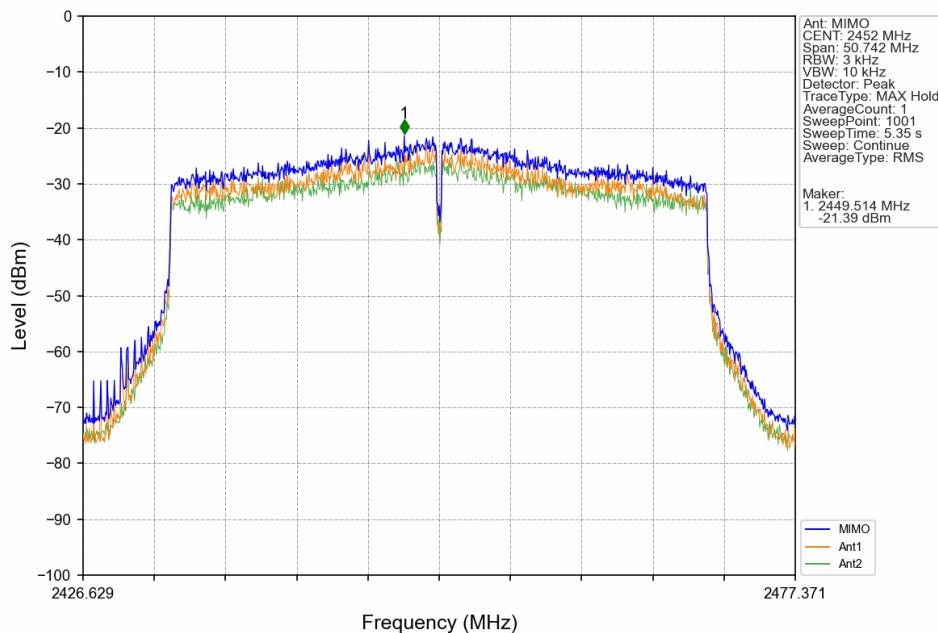


802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant1 (MIMO)_NTNV



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802.11ax(HEW40)_HCH_2452MHz_RU484_Left_Ant2 (MIMO)_NTNV**802.11ax(HEW40)_HCH_2452MHz_RU484_Left_MIMO_NTNV**

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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)
802.11b	SISO	2412	/	/	1	3.31
					2	0.31
		2437	/	/	1	1.73
					2	0.38
		2462	/	/	1	1.15
					2	0.30
	SISO	2412	/	/	1	-0.40
					2	-1.92
		2437	/	/	1	-0.29
					2	-2.43
		2462	/	/	1	-1.05
					2	-3.43
802.11n (HT20)	MIMO	2412	/	/	1	-0.48
					2	-1.81
		2437	/	/	1	-0.26
					2	-1.50
		2462	/	/	1	-3.34
					2	-4.48
802.11n (HT40)	MIMO	2422	/	/	1	-8.67
					2	-10.65
		2437	/	/	1	-8.74
					2	-9.78
		2452	/	/	1	-8.91
					2	-10.35
802.11ax (HEW20)	MIMO	2412	RU242	Left	1	-4.06
					2	-5.94
		2437	RU242	Left	1	-5.11
					2	-6.27
		2462	RU242	Left	1	-6.49
					2	-6.20



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Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)
802.11ax (HEW40)	MIMO	2422	RU484	Left	1	-8.59
					2	-10.82
		2437	RU484	Left	1	-7.93
					2	-9.66
		2452	RU484	Left	1	-8.09
					2	-9.92

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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5.1.2 CSE and Band Edges

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	/	/	1	3.31	-16.69	Pass
					2	0.38	-19.62	Pass
		2437	/	/	1	3.31	-16.69	Pass
					2	0.38	-19.62	Pass
		2462	/	/	1	3.31	-16.69	Pass
					2	0.38	-19.62	Pass
802.11g	SISO	2412	/	/	1	-0.29	-20.29	Pass
					2	-1.92	-21.92	Pass
		2437	/	/	1	-0.29	-20.29	Pass
					2	-1.92	-21.92	Pass
		2462	/	/	1	-0.29	-20.29	Pass
					2	-1.92	-21.92	Pass
802.11n (HT20)	MIMO	2412	/	/	1	-0.26	-20.26	Pass
					2	-1.50	-21.50	Pass
		2437	/	/	1	-0.26	-20.26	Pass
					2	-1.50	-21.50	Pass
		2462	/	/	1	-0.26	-20.26	Pass
					2	-1.50	-21.50	Pass
802.11n (HT40)	MIMO	2422	/	/	1	-8.67	-28.67	Pass
					2	-9.78	-29.78	Pass
		2437	/	/	1	-8.67	-28.67	Pass
					2	-9.78	-29.78	Pass
		2452	/	/	1	-8.67	-28.67	Pass
					2	-9.78	-29.78	Pass
802.11ax (HEW20)	MIMO	2412	RU242	Left	1	-4.06	-24.06	Pass
					2	-5.94	-25.94	Pass
		2437	RU242	Left	1	-4.06	-24.06	Pass
					2	-5.94	-25.94	Pass
		2462	RU242	Left	1	-4.06	-24.06	Pass
					2	-5.94	-25.94	Pass
802.11ax (HEW40)	MIMO	2422	RU484	Left	1	-7.93	-27.93	Pass
					2	-9.66	-29.66	Pass
		2437	RU484	Left	1	-7.93	-27.93	Pass
					2	-9.66	-29.66	Pass
		2452	RU484	Left	1	-7.93	-27.93	Pass
					2	-9.66	-29.66	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.



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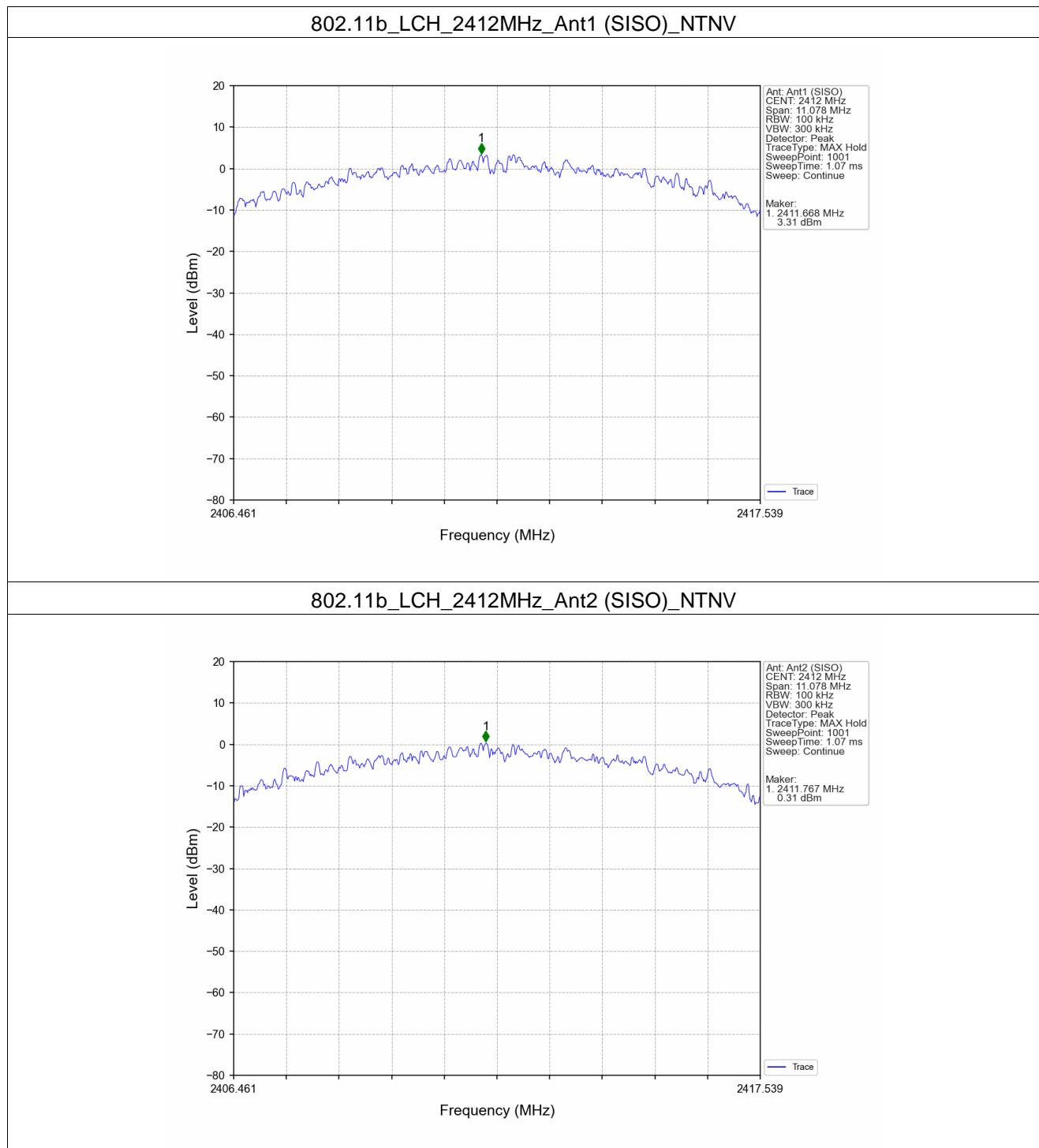
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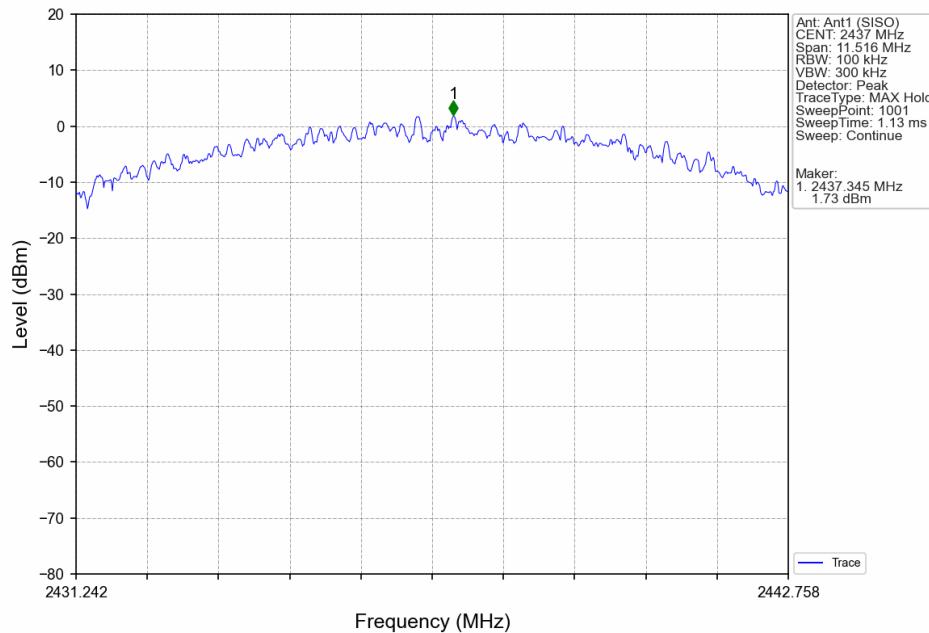
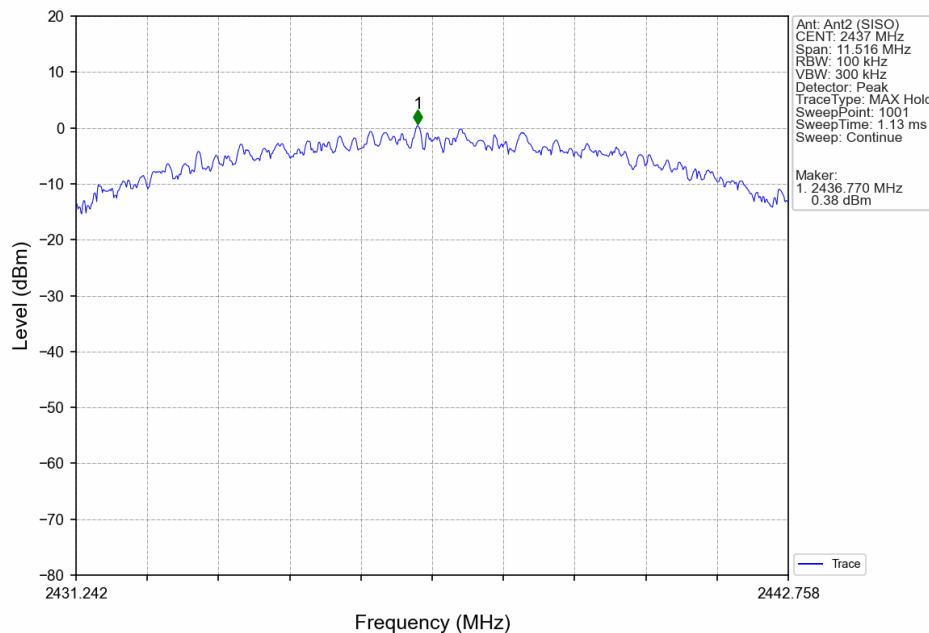
5.2 Test Graph

5.2.1 Ref



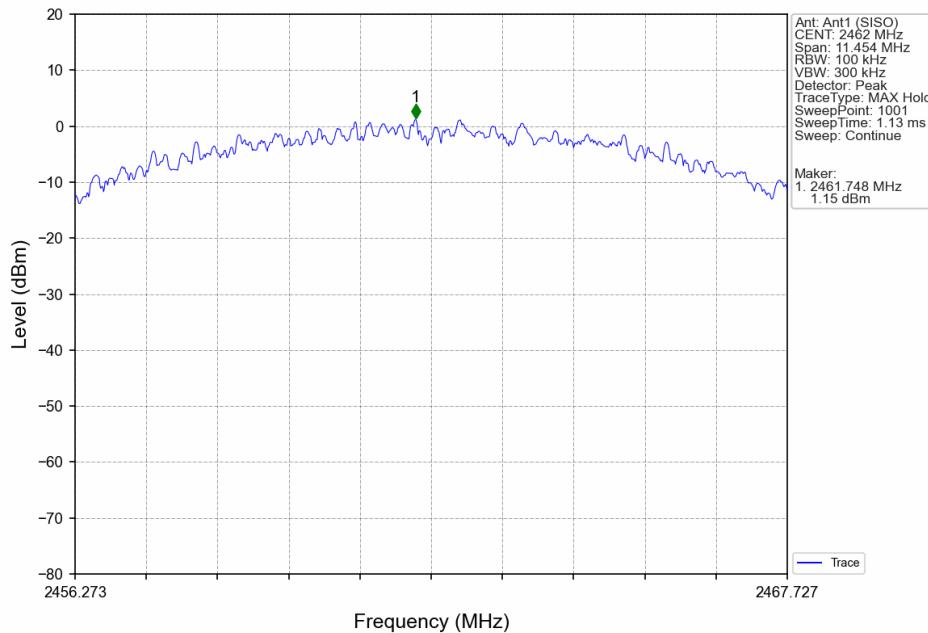
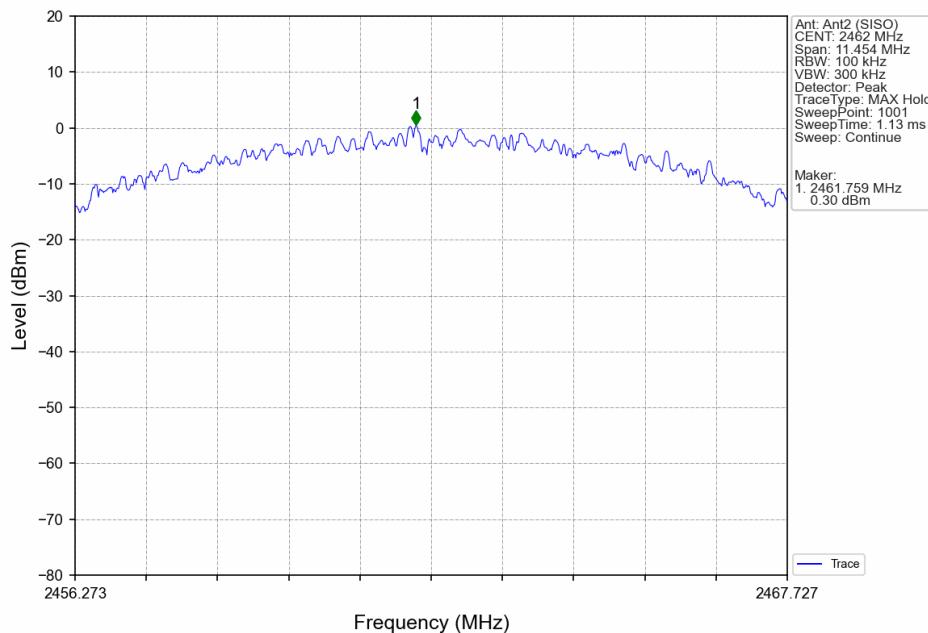
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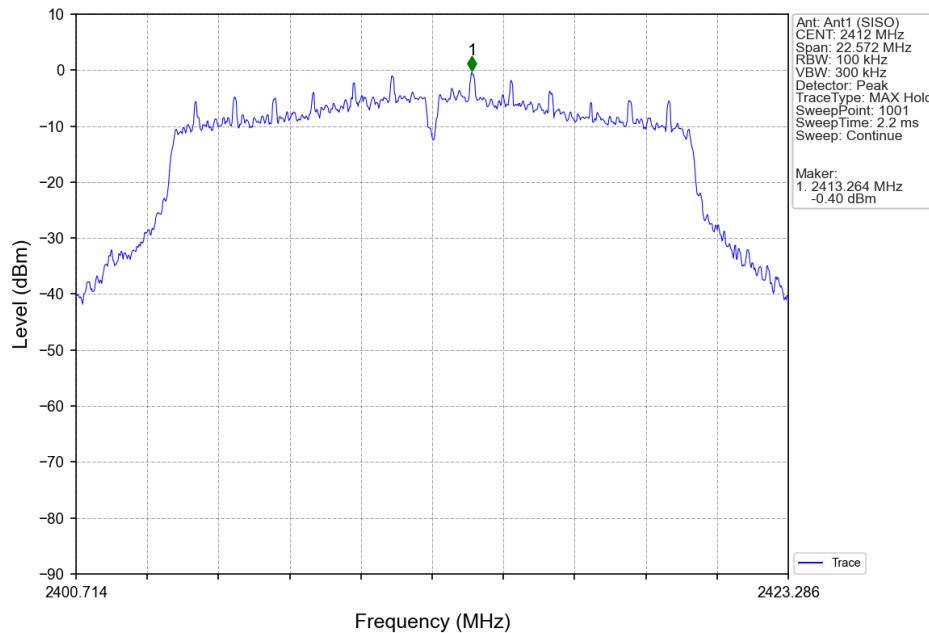
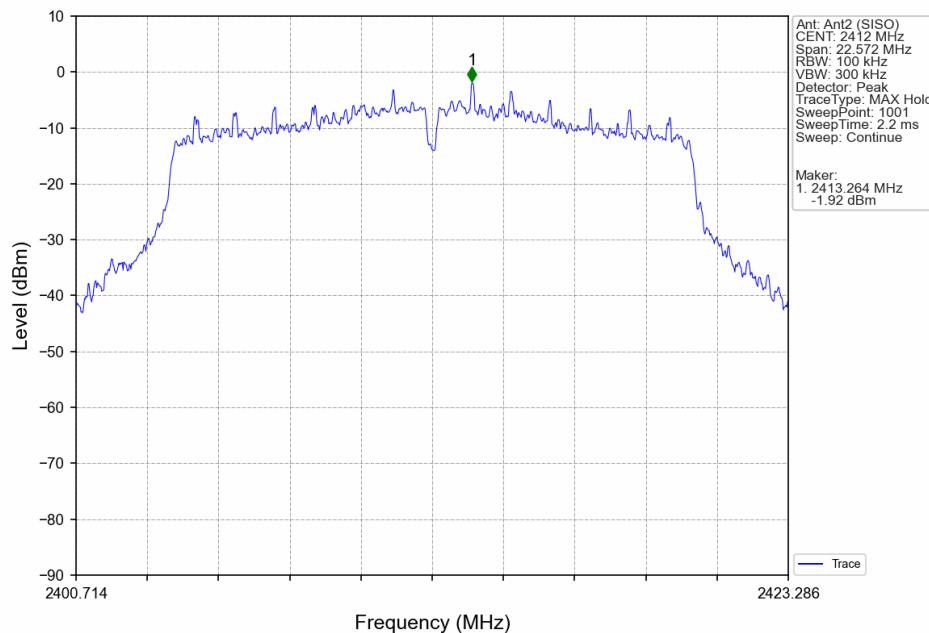
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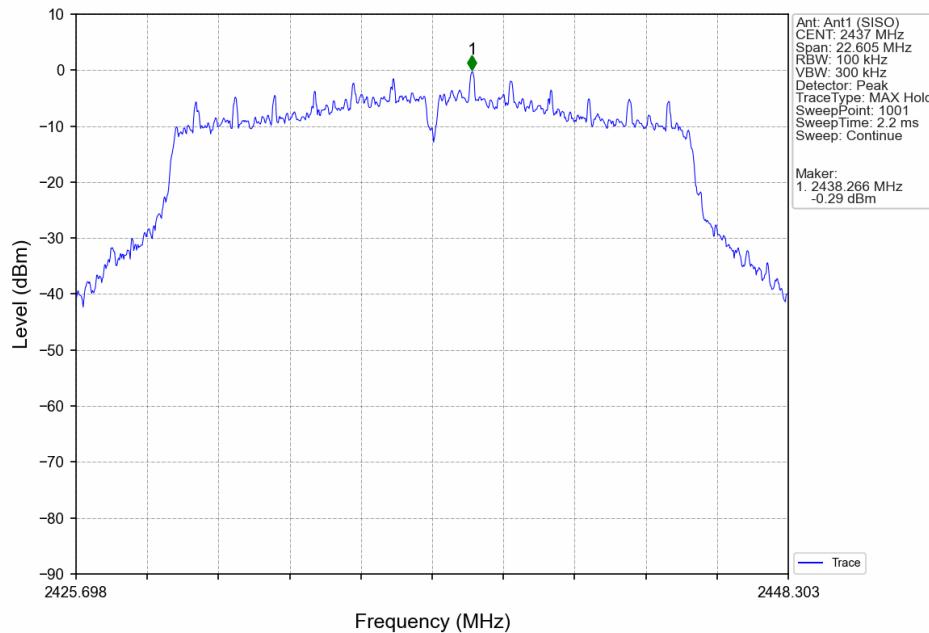
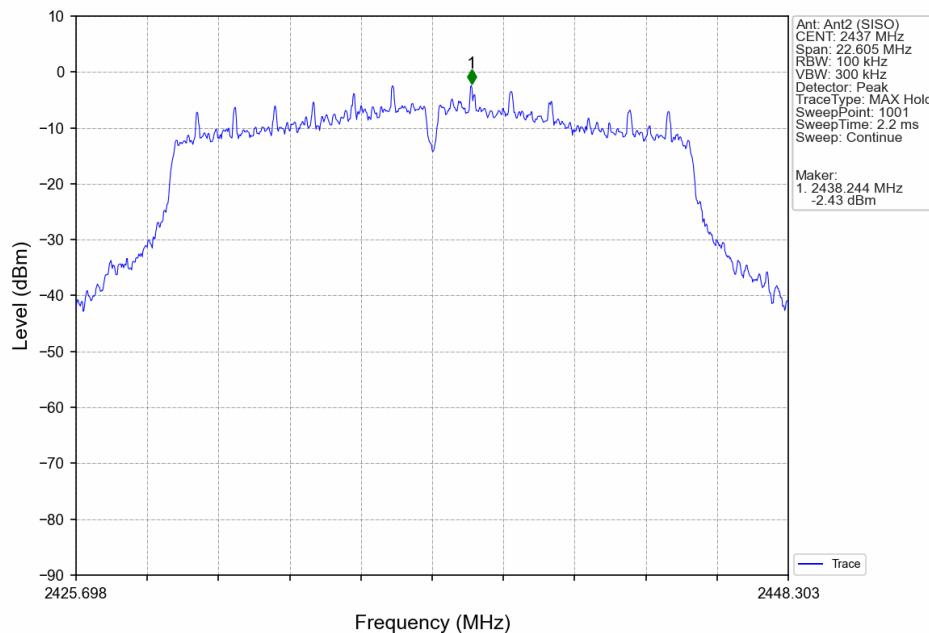
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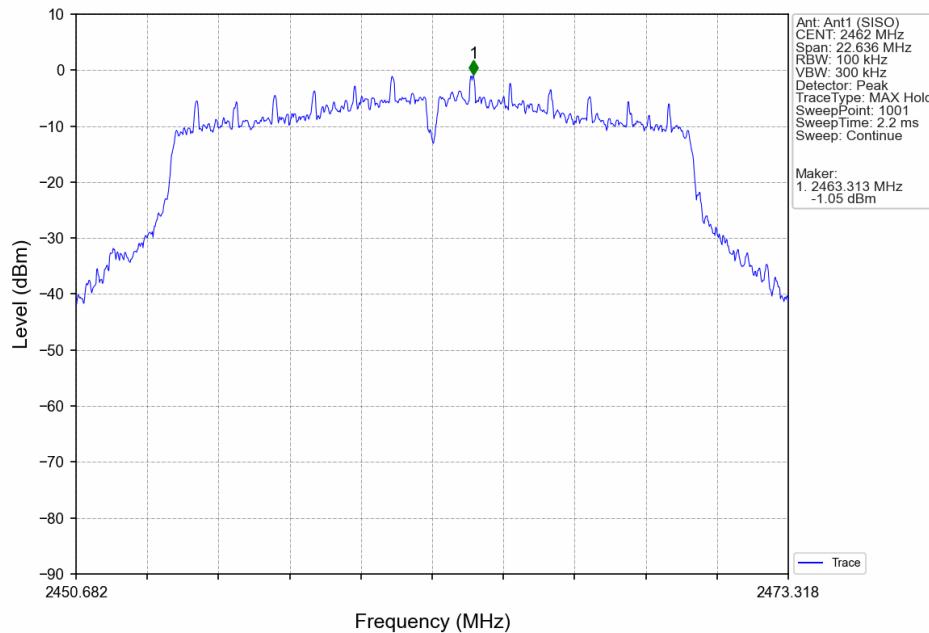
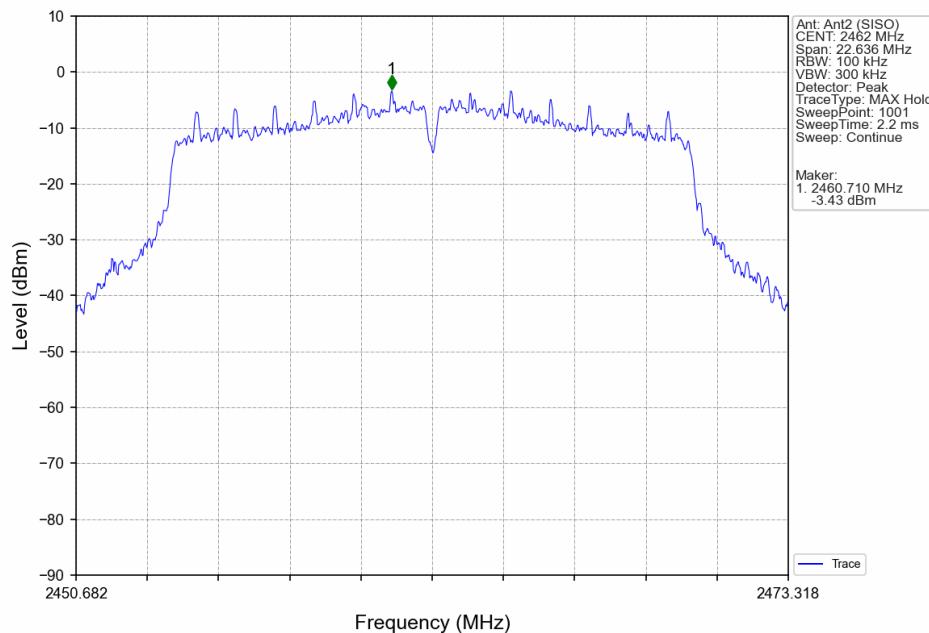
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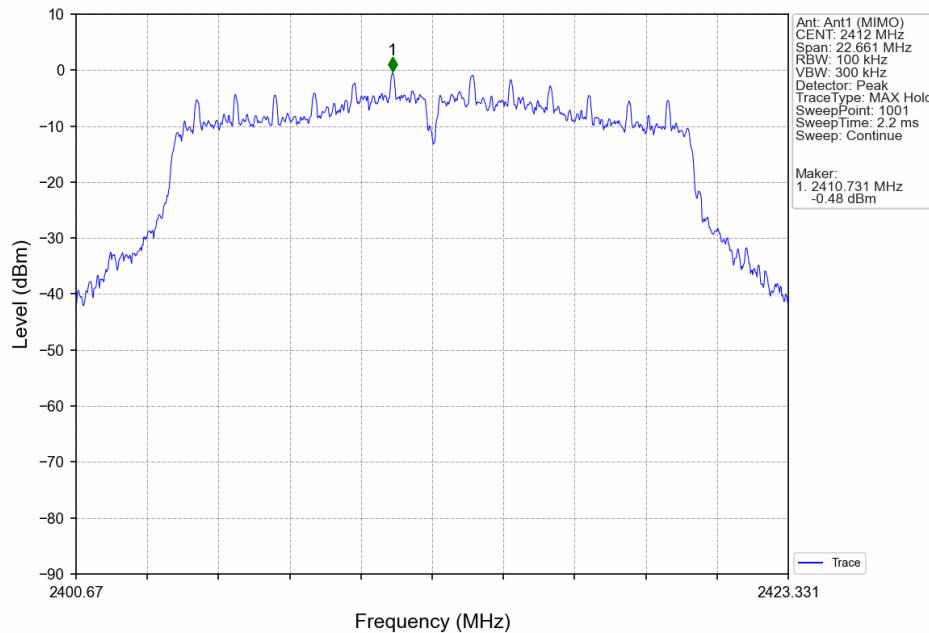
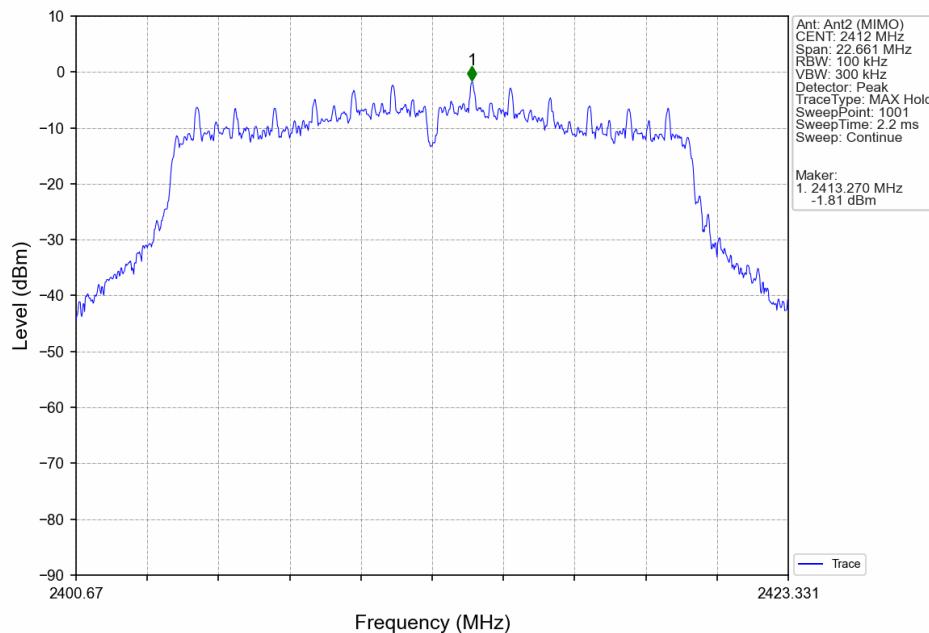
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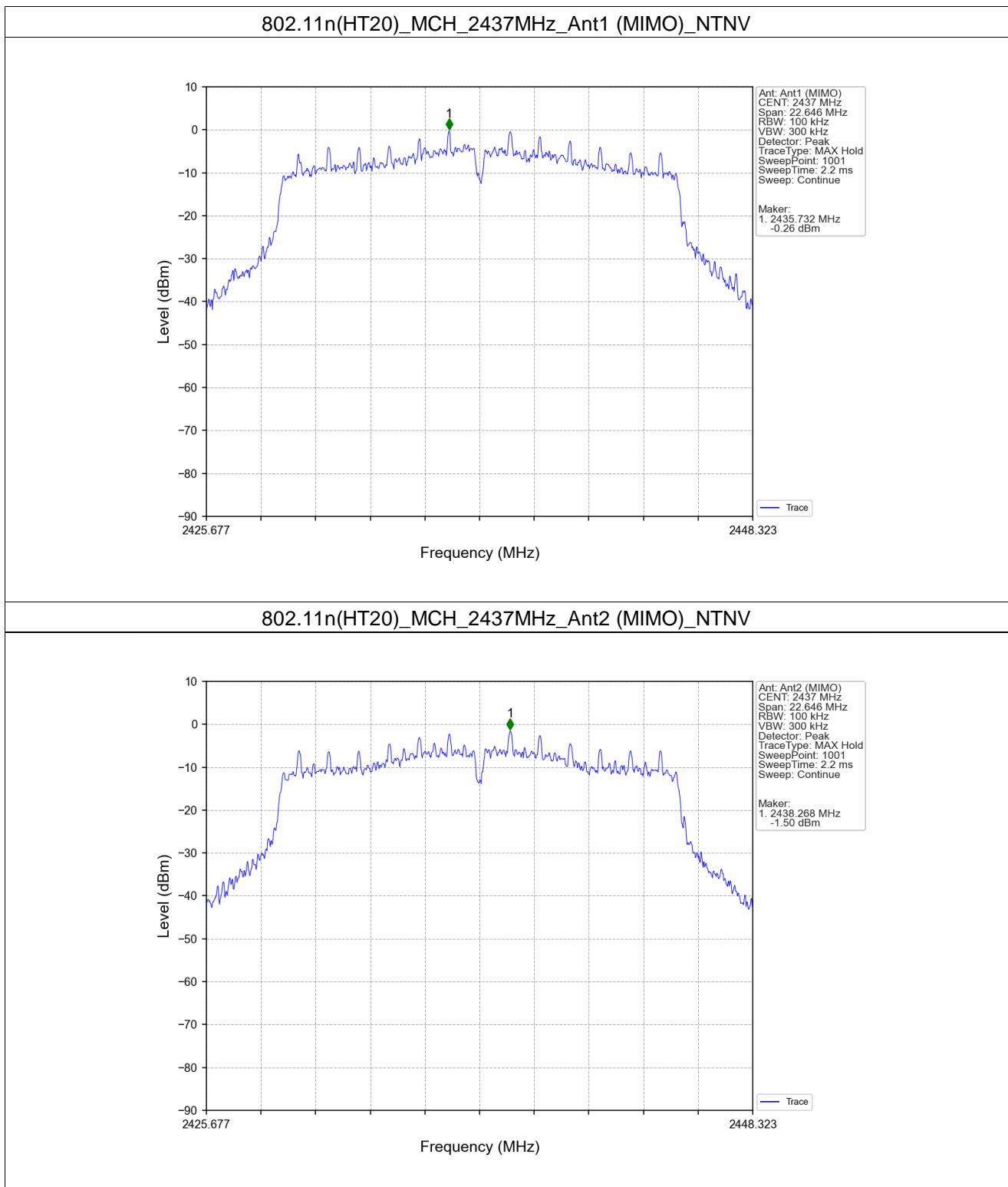
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