

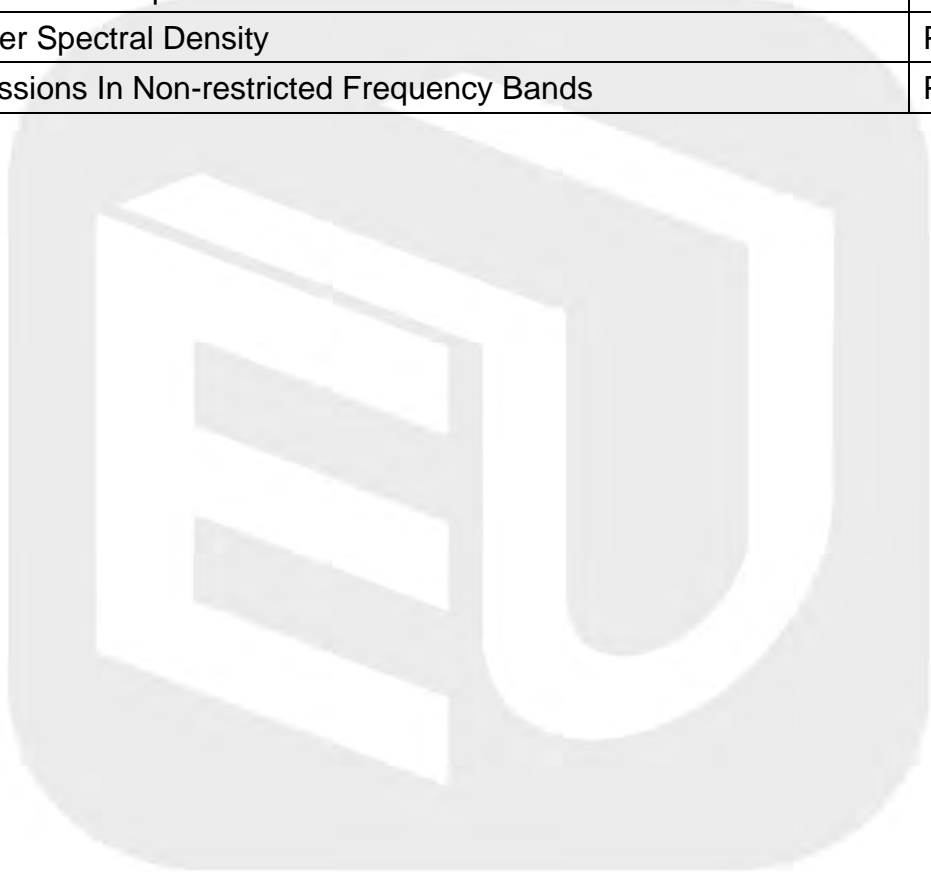
ANNEX F TEST DATA

For

Project No.:	8229EU012502W
Client:	Chengdu Hotack Technology Co., Ltd.
Product Description:	PROJECTOR
Model No.:	L007CM
FCC ID:	2BFIZ-L007CM
Technology:	WiFi 2.4G
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-07-11

Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass



1. Duty Cycle

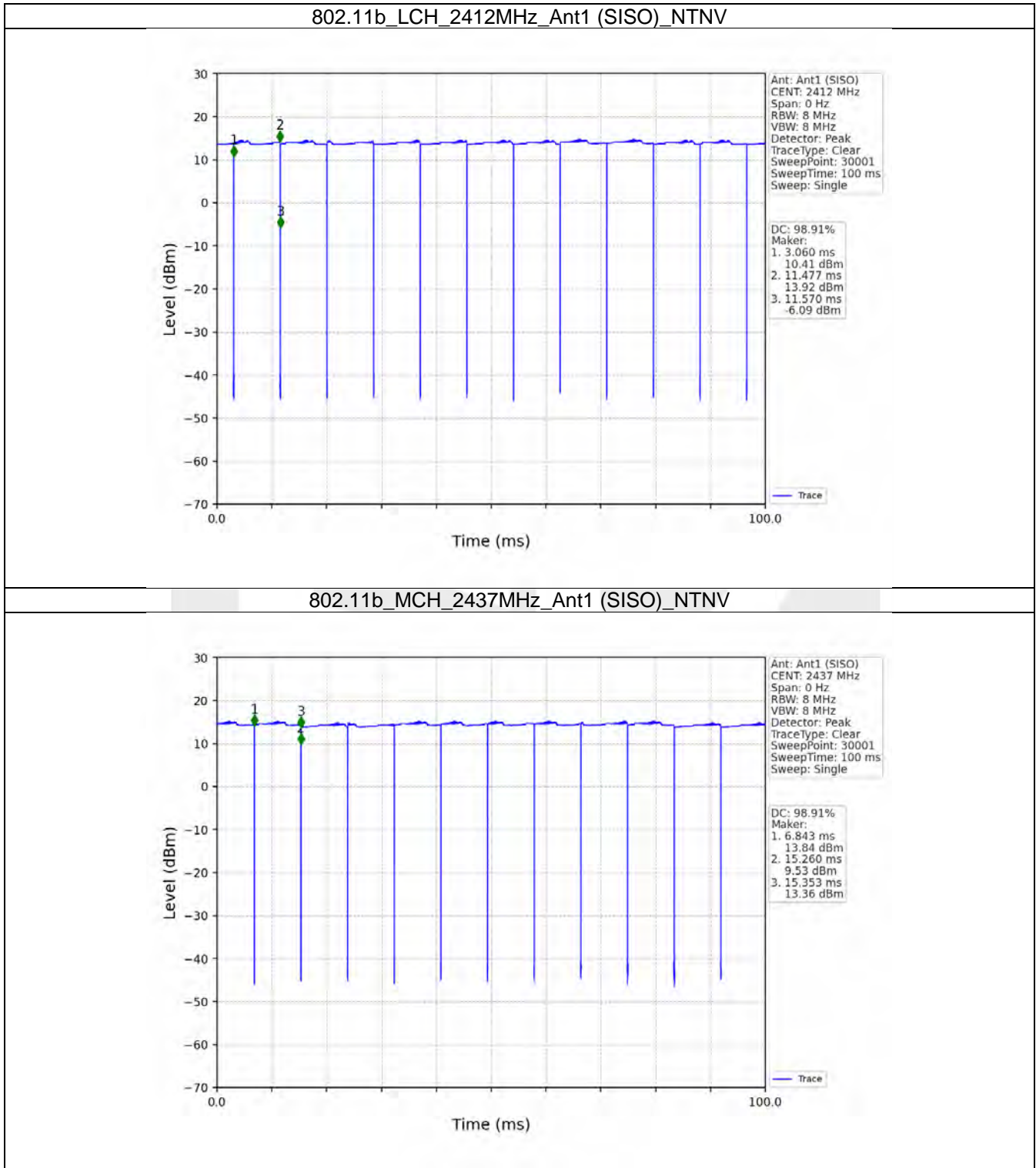
1.1 Test Result

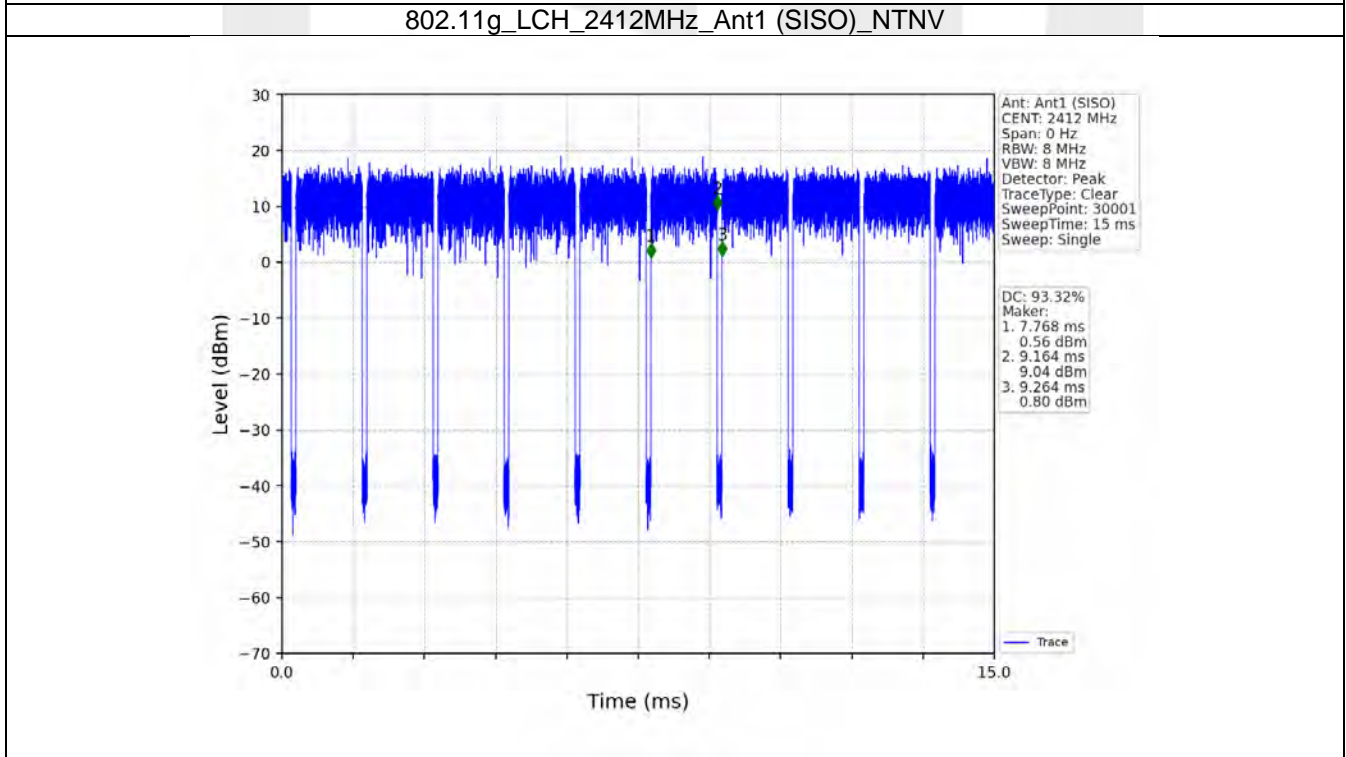
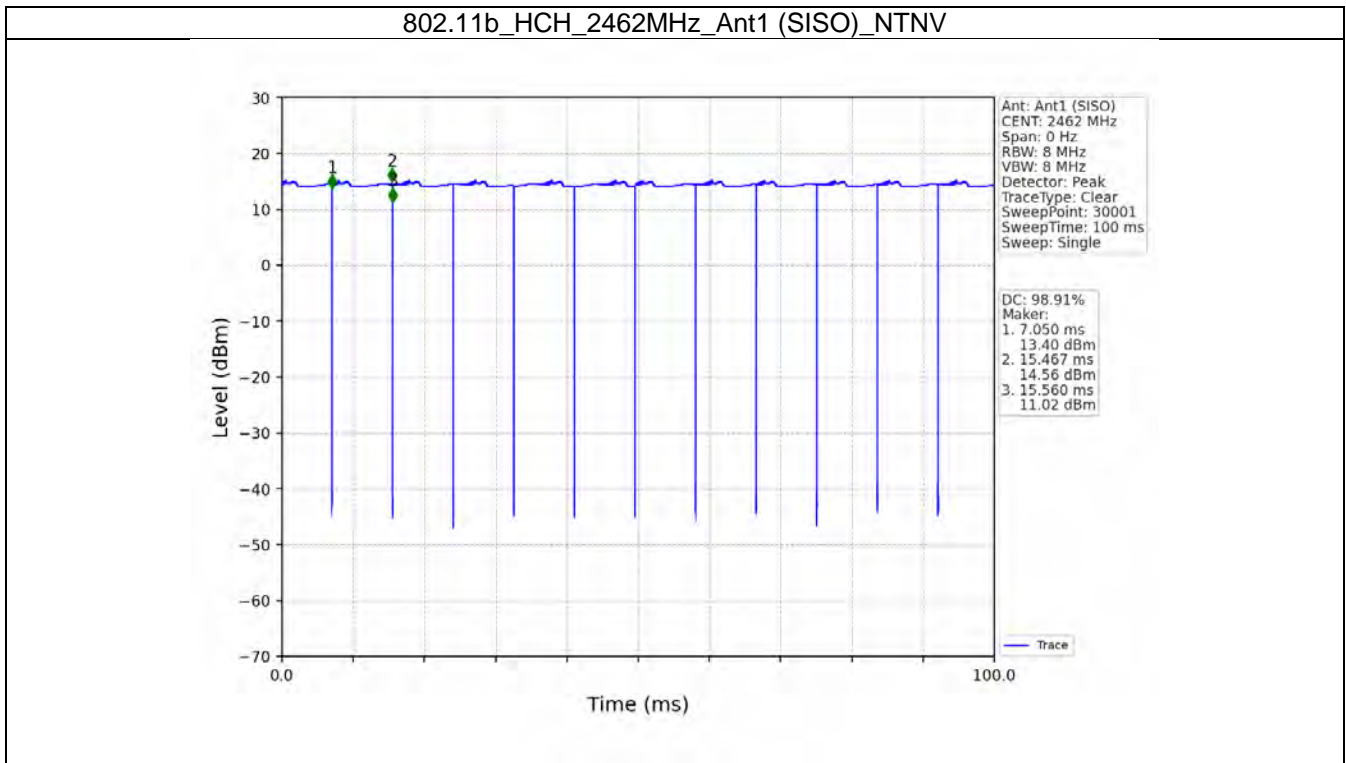
1.1.1 Ant1

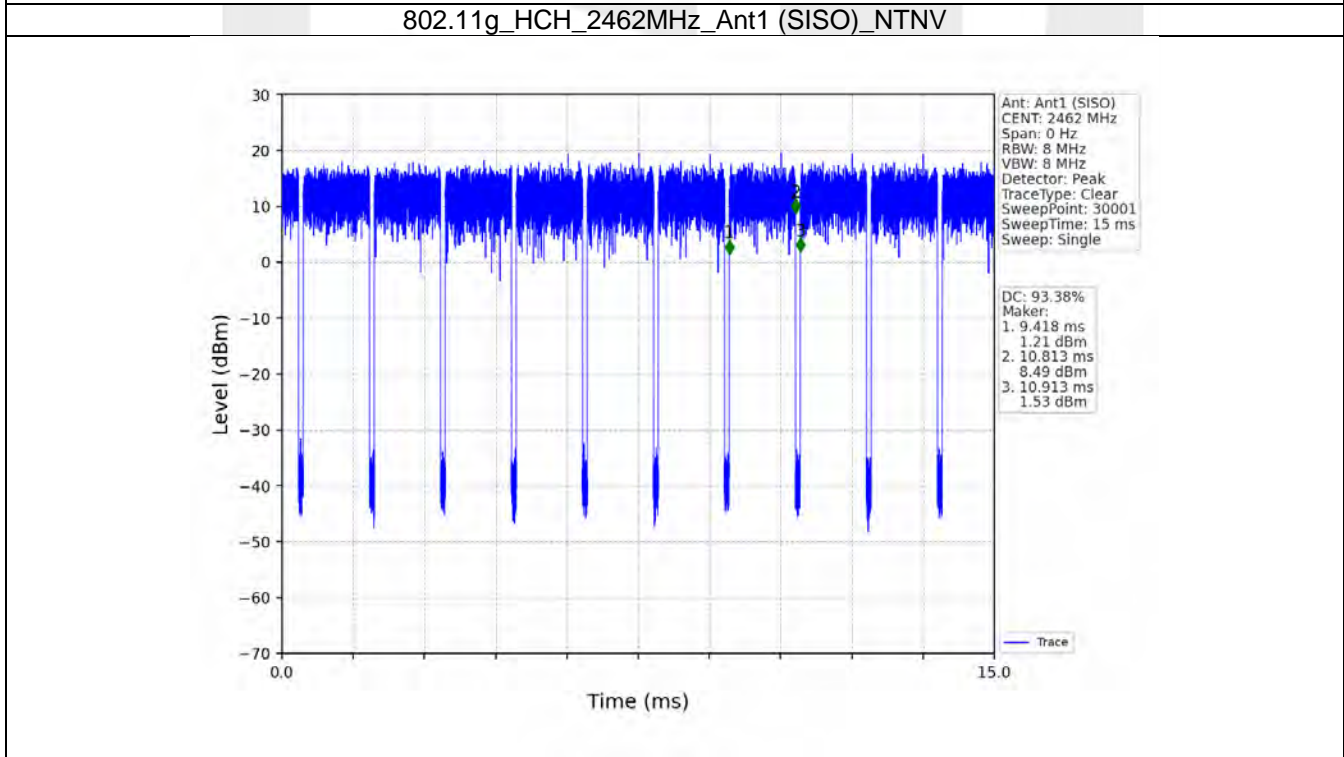
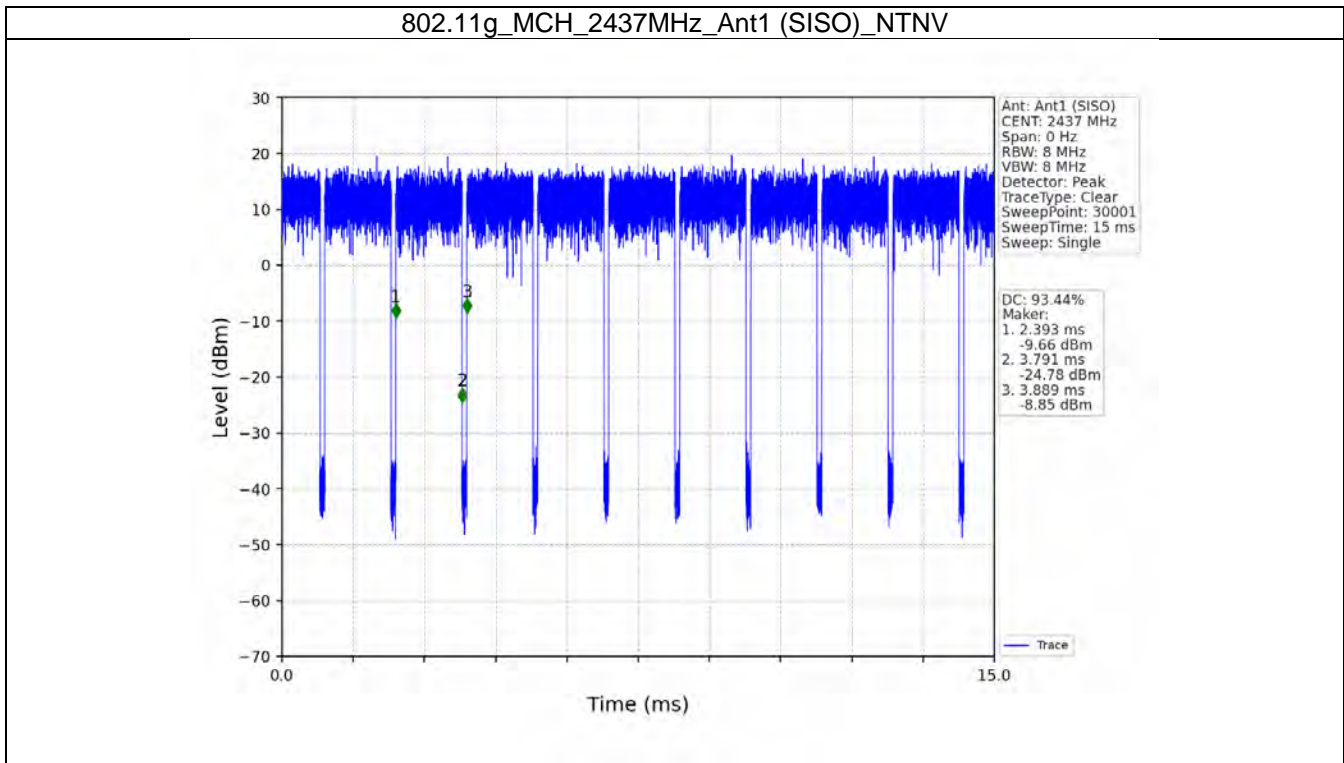
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	8.417	8.510	98.91	0.05	0.04
		2437	8.417	8.510	98.91	0.05	0.00
		2462	8.417	8.510	98.91	0.05	0.00
802.11g	SISO	2412	1.396	1.496	93.32	0.30	0.03
		2437	1.397	1.495	93.44	0.29	0.03
		2462	1.397	1.496	93.38	0.30	0.03
802.11n (HT20)	SISO	2412	1.308	1.407	92.96	0.32	0.07
		2437	1.308	1.408	92.90	0.32	0.07
		2462	1.308	1.408	92.90	0.32	0.03
802.11n (HT40)	SISO	2422	100.000	100.000	100.00	0.00	0.00
		2437	100.000	100.000	100.00	0.00	0.00
		2452	100.000	100.000	100.00	0.00	0.00

1.2 Test Graph

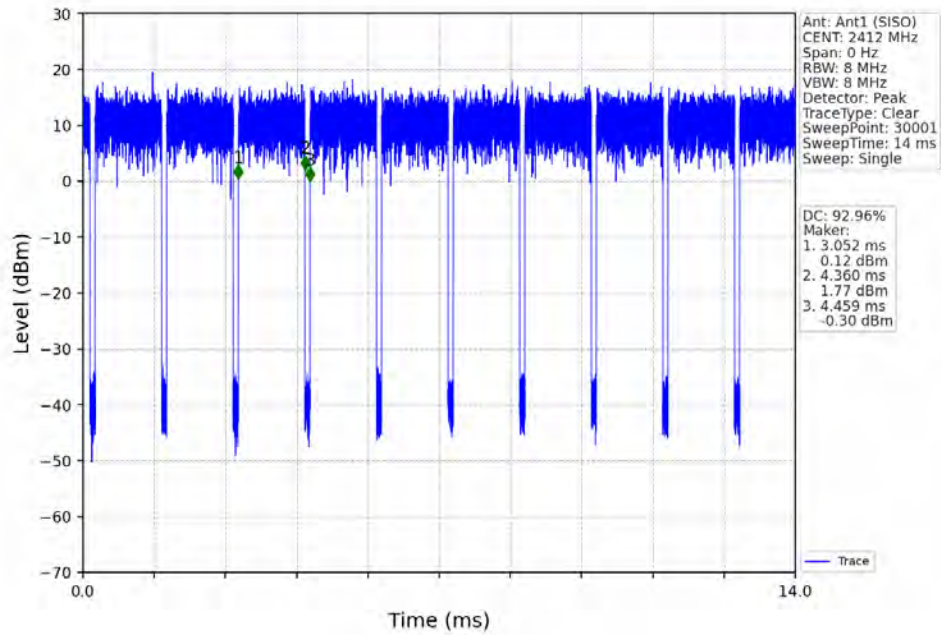
1.2.1 Ant1



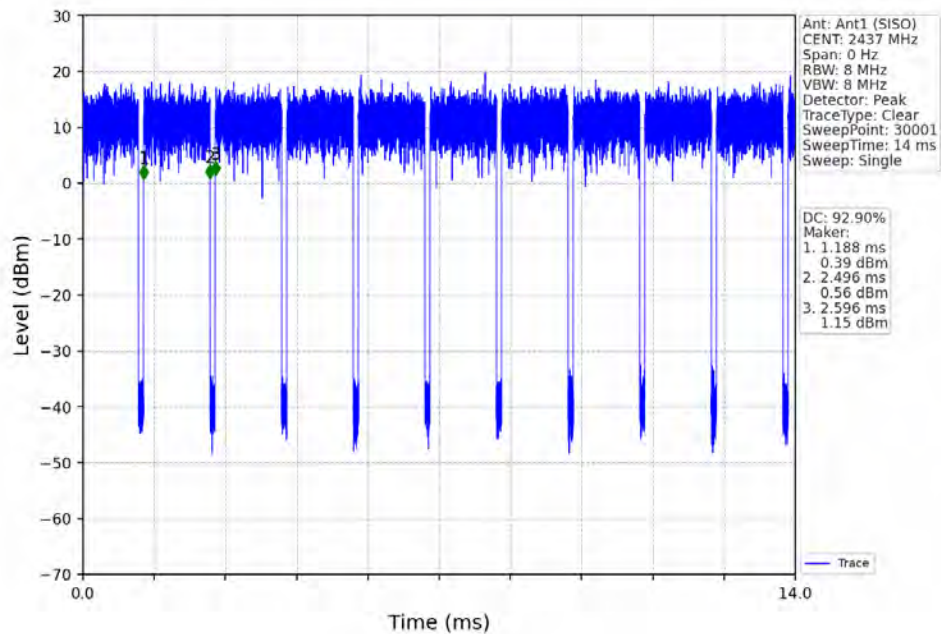


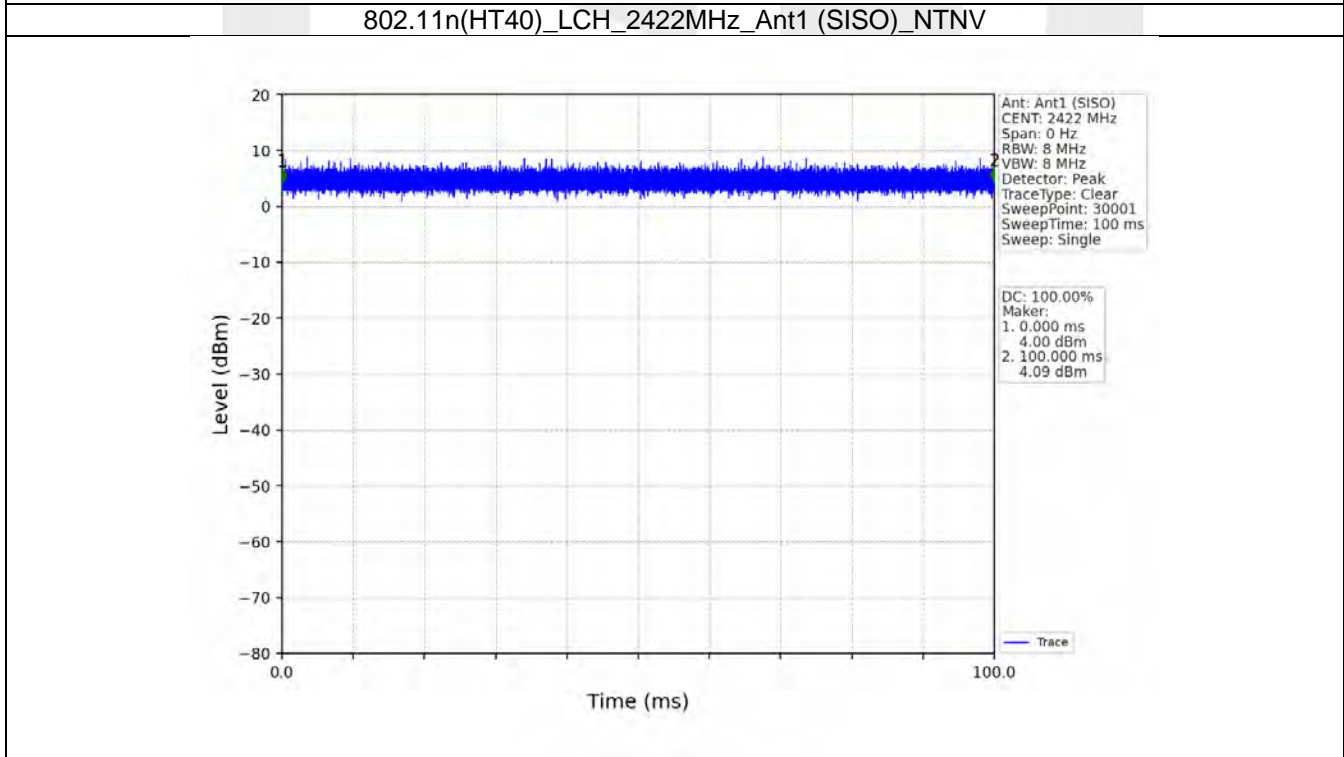
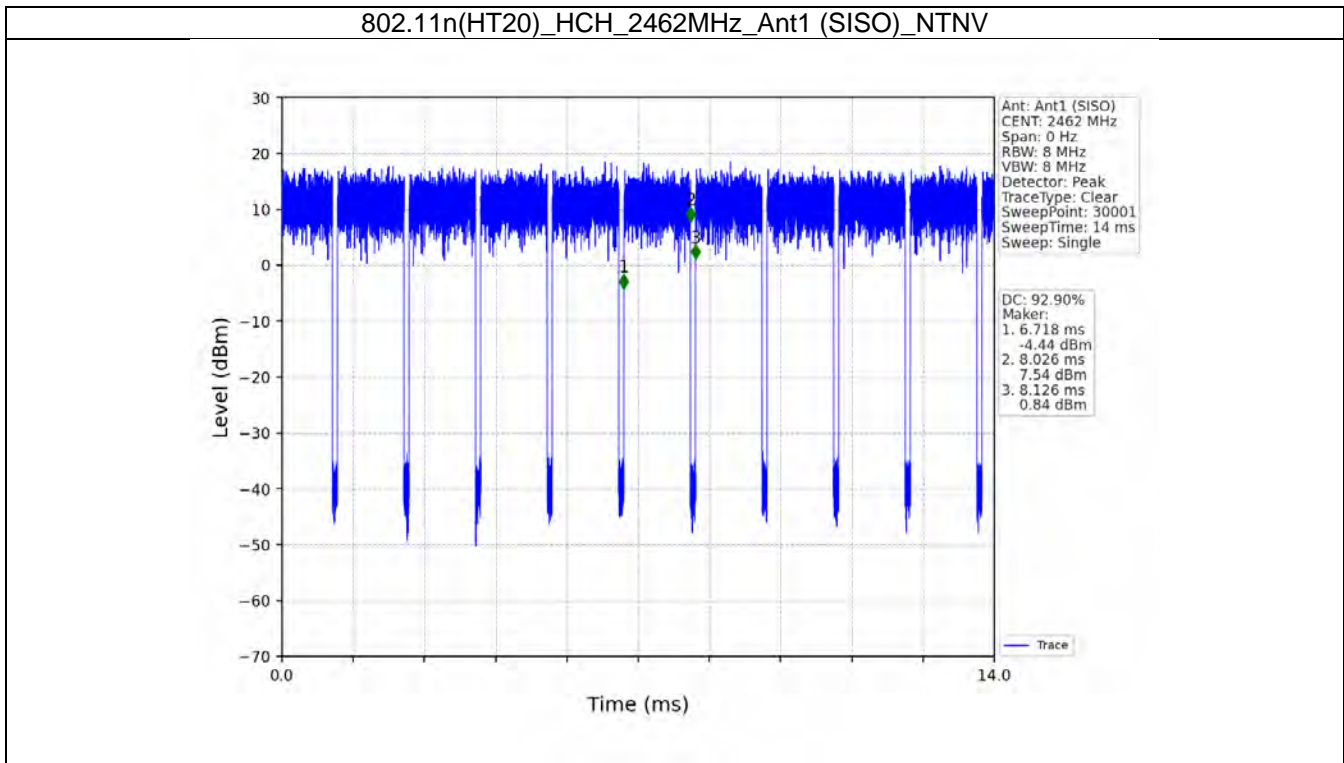


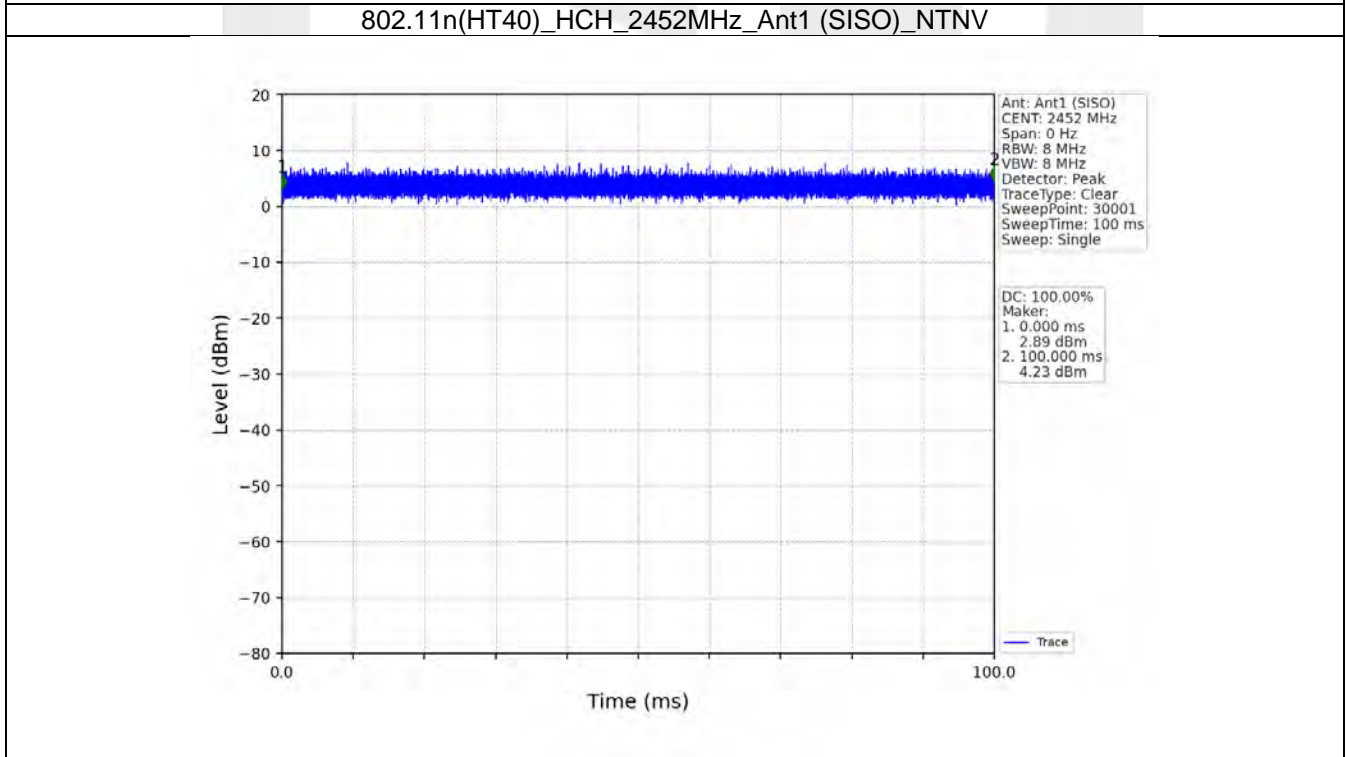
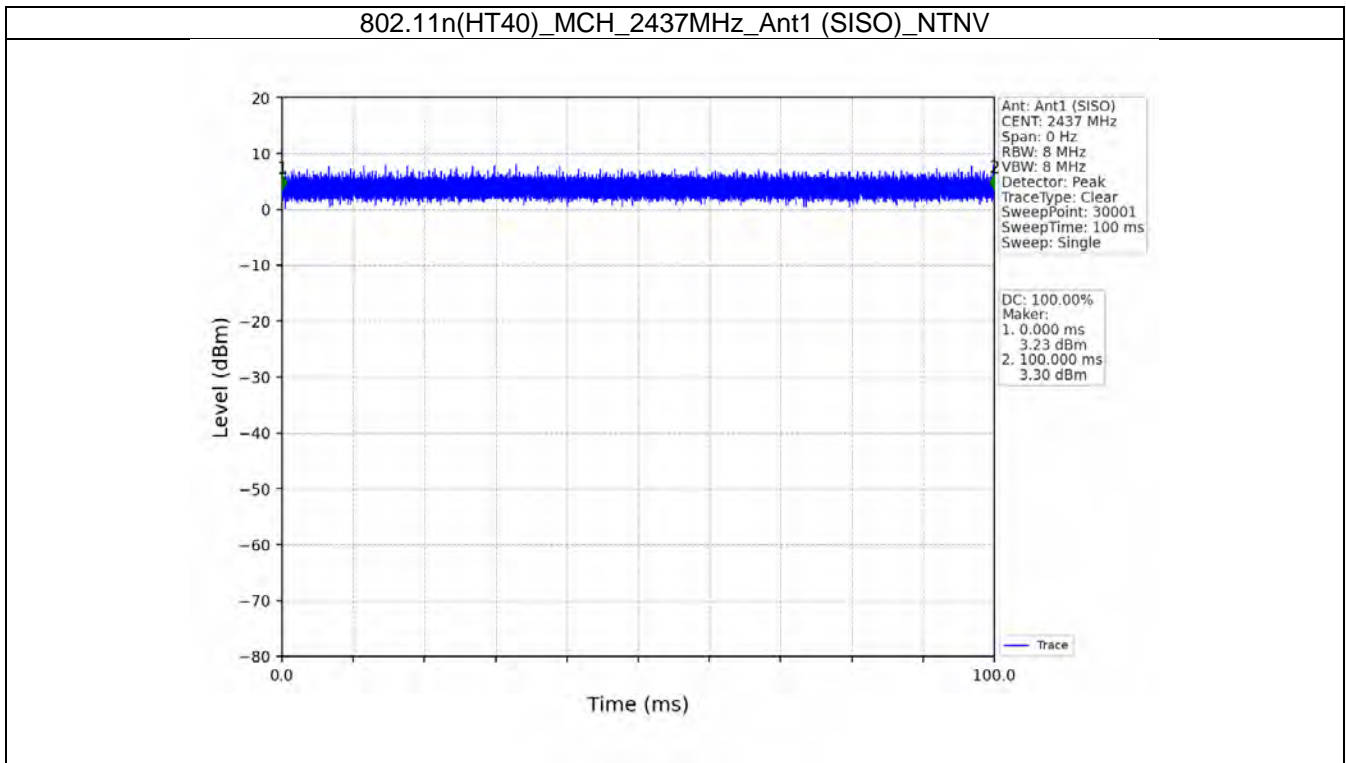
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV







2. Bandwidth

2.1 Test Result

2.1.1 OBW

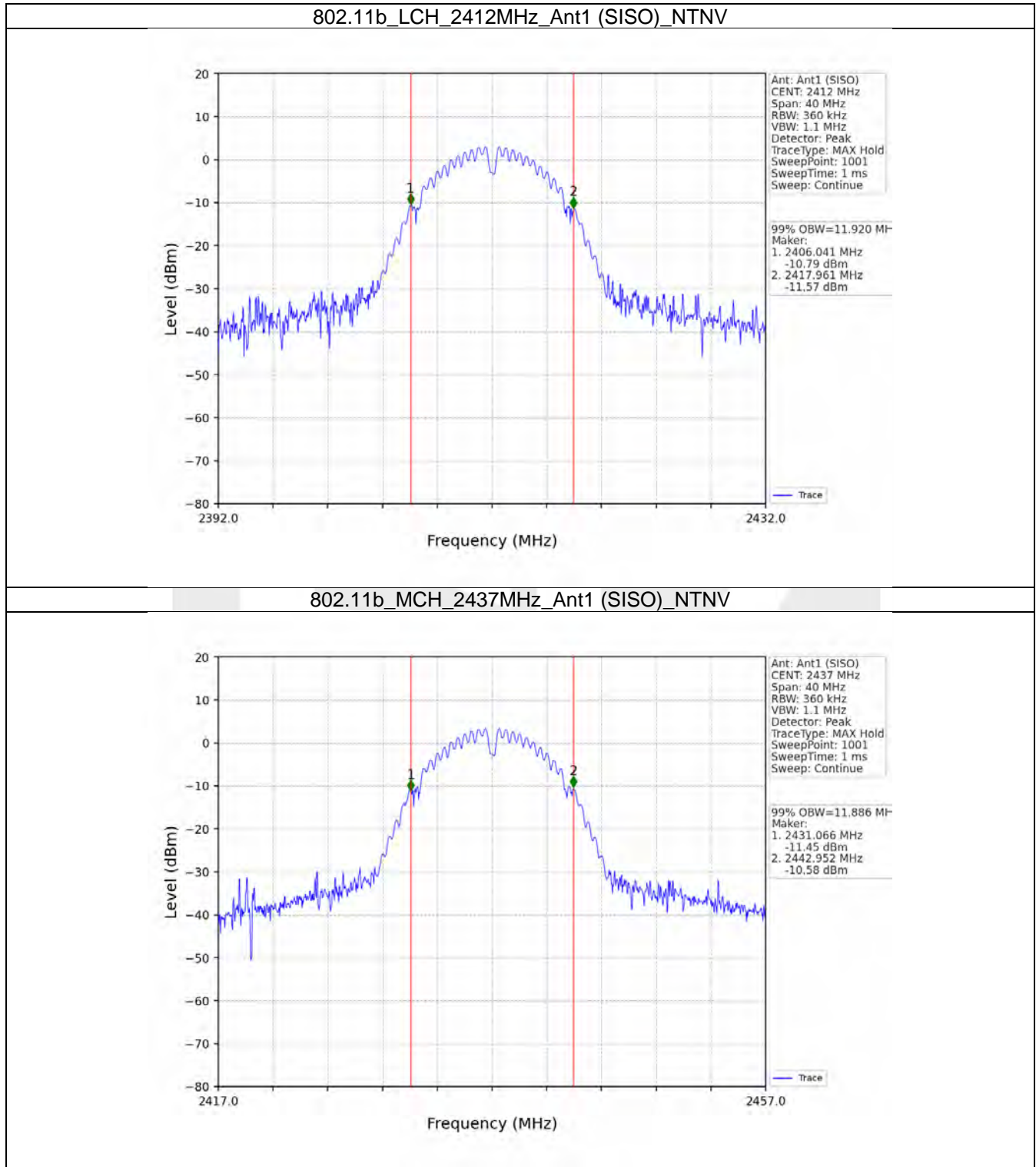
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	11.920	/	Pass
		2437	1	11.886	/	Pass
		2462	1	11.865	/	Pass
802.11g	SISO	2412	1	17.909	/	Pass
		2437	1	17.913	/	Pass
		2462	1	17.916	/	Pass
802.11n (HT20)	SISO	2412	1	18.909	/	Pass
		2437	1	18.851	/	Pass
		2462	1	18.782	/	Pass
802.11n (HT40)	SISO	2422	1	34.653	/	Pass
		2437	1	34.606	/	Pass
		2452	1	34.509	/	Pass

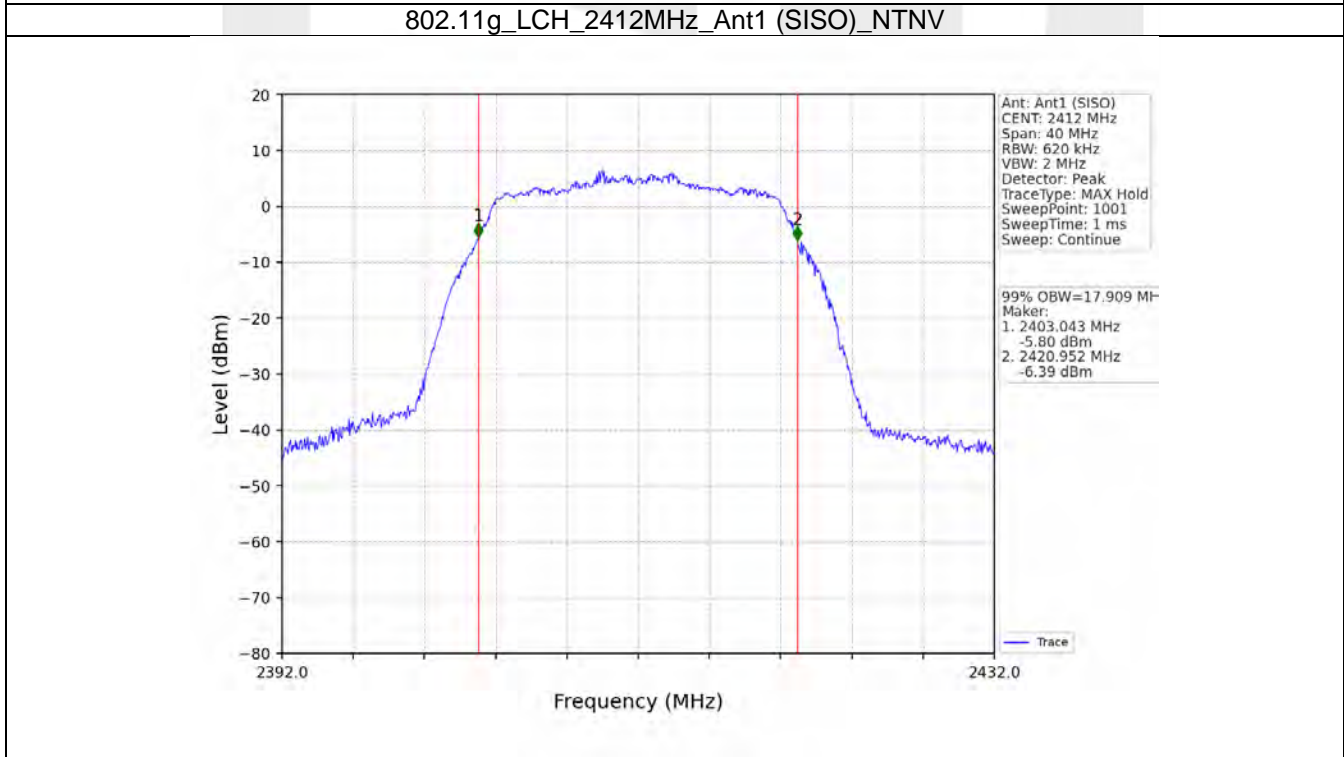
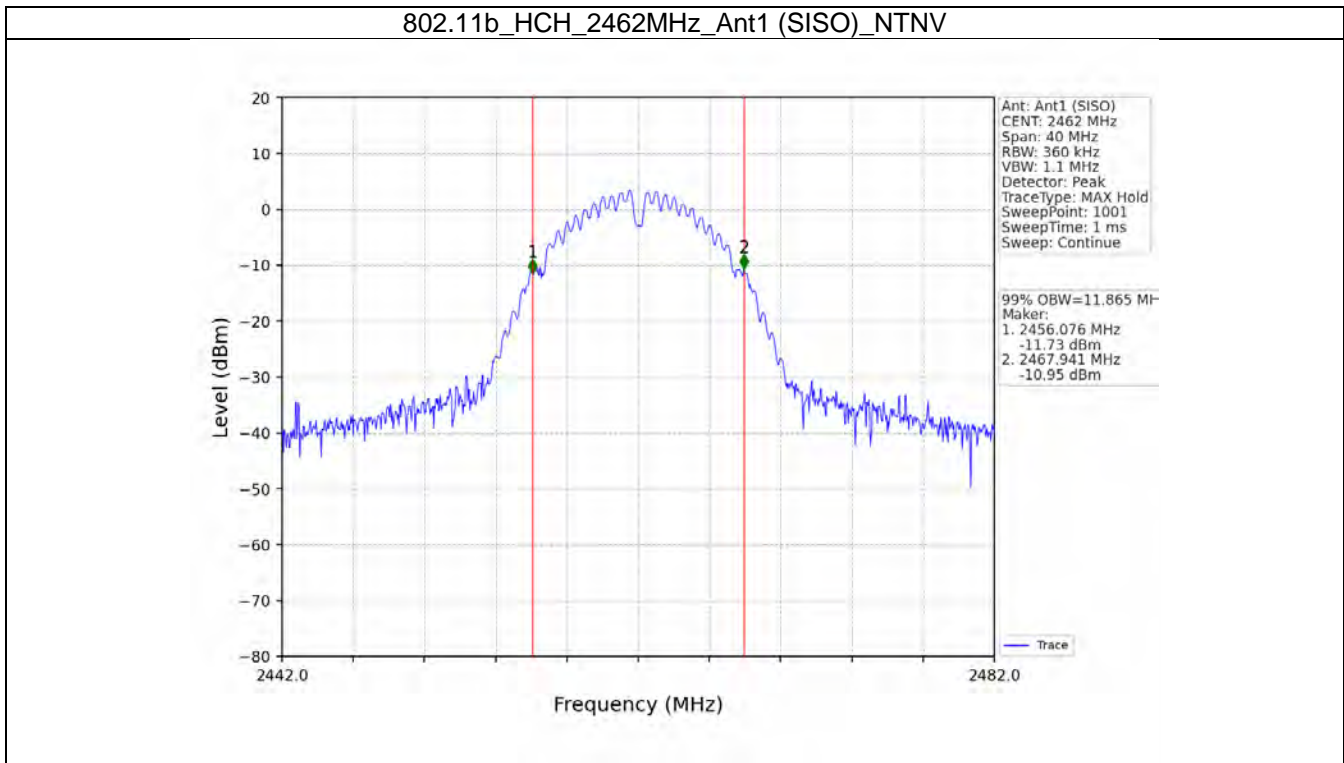
2.1.2 6dB BW

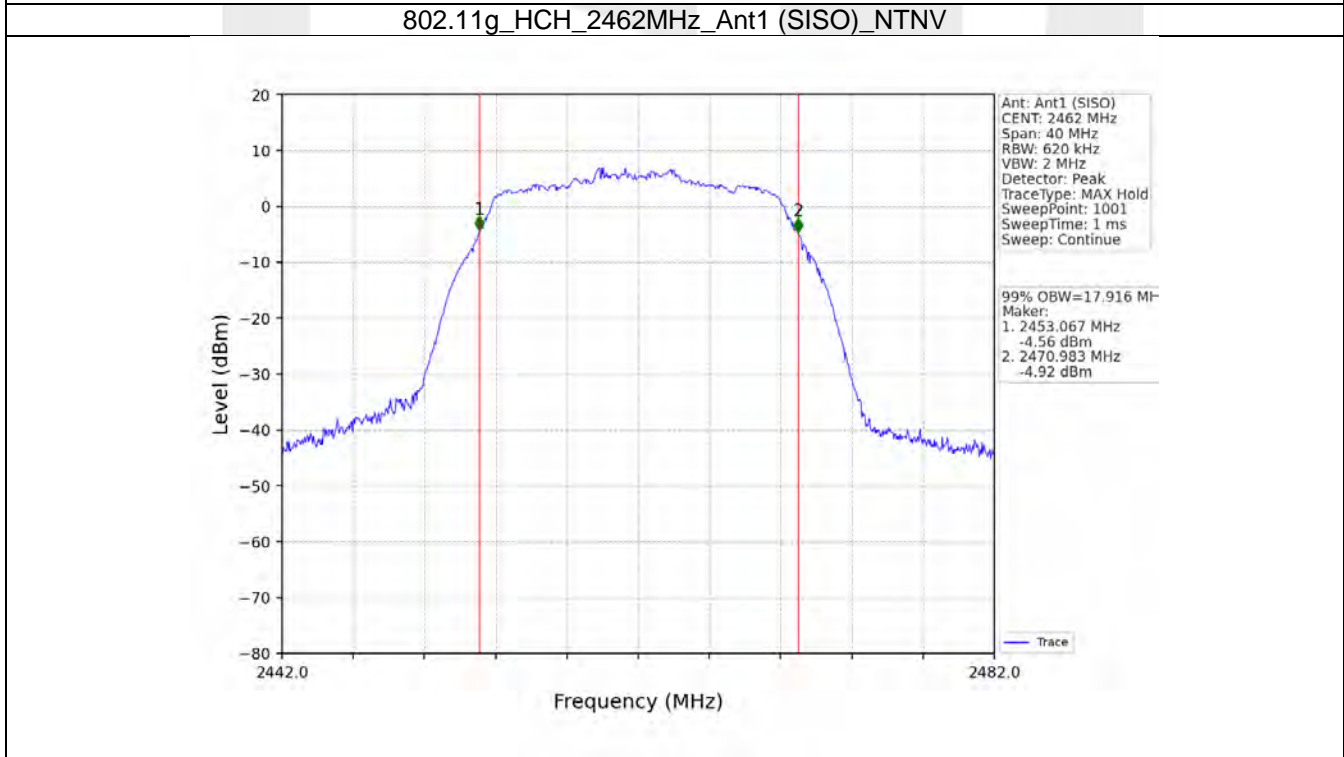
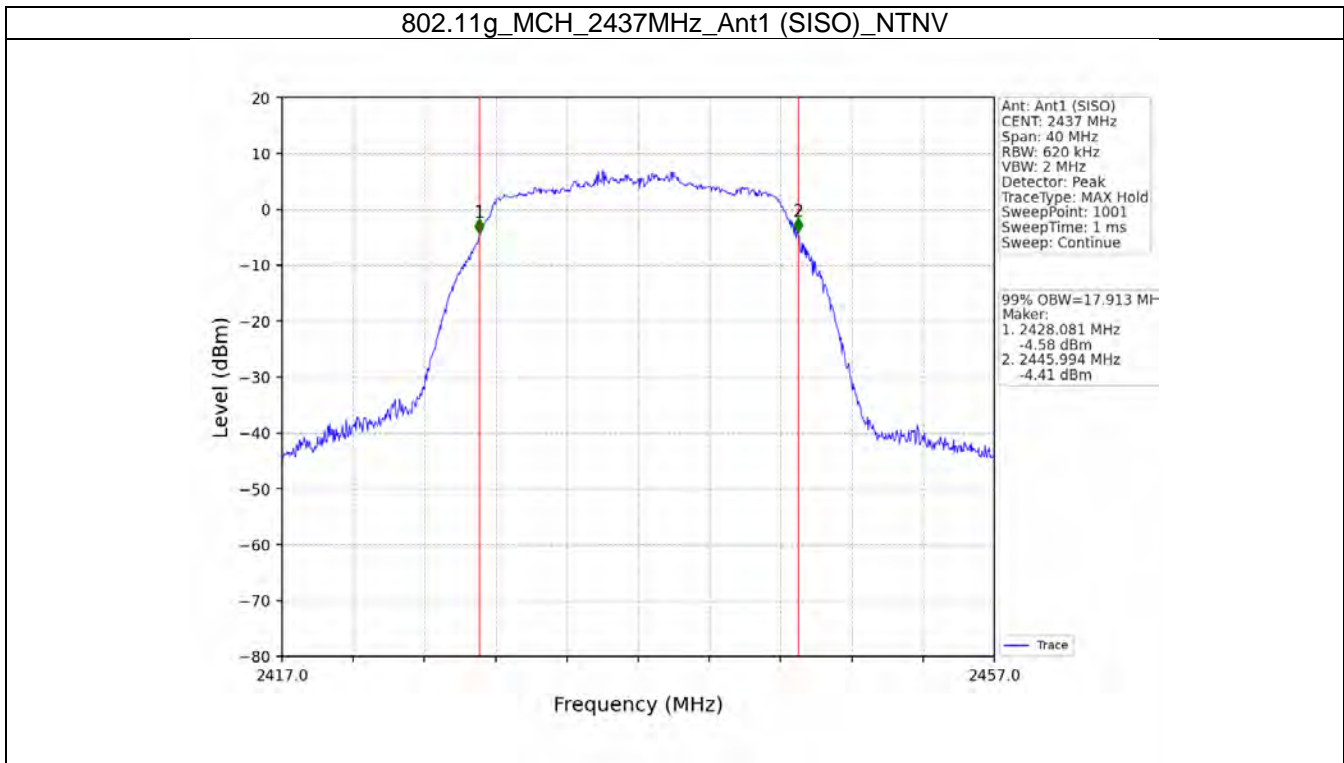
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.069	≥ 0.5	Pass
		2437	1	8.024	≥ 0.5	Pass
		2462	1	8.052	≥ 0.5	Pass
802.11g	SISO	2412	1	16.389	≥ 0.5	Pass
		2437	1	16.384	≥ 0.5	Pass
		2462	1	16.384	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.626	≥ 0.5	Pass
		2437	1	17.621	≥ 0.5	Pass
		2462	1	17.632	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	32.494	≥ 0.5	Pass
		2437	1	32.776	≥ 0.5	Pass
		2452	1	32.575	≥ 0.5	Pass

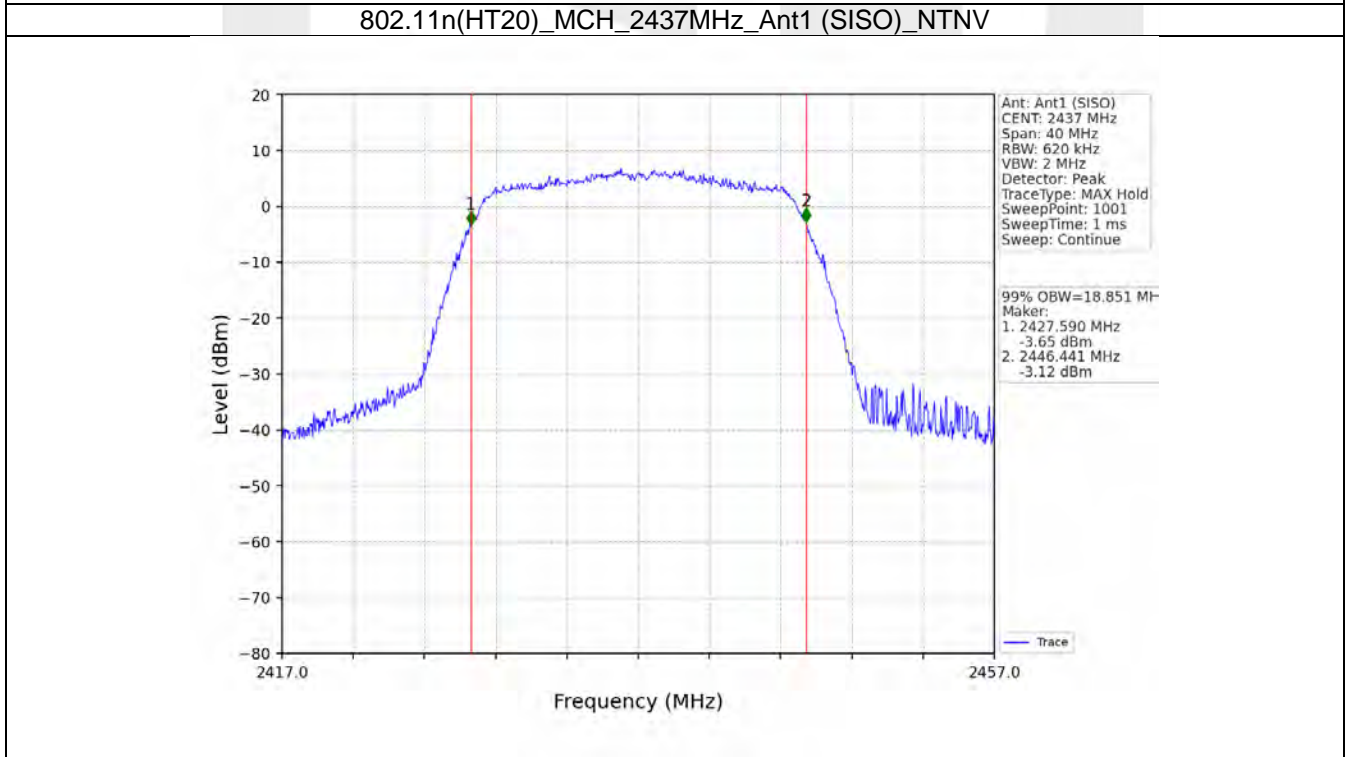
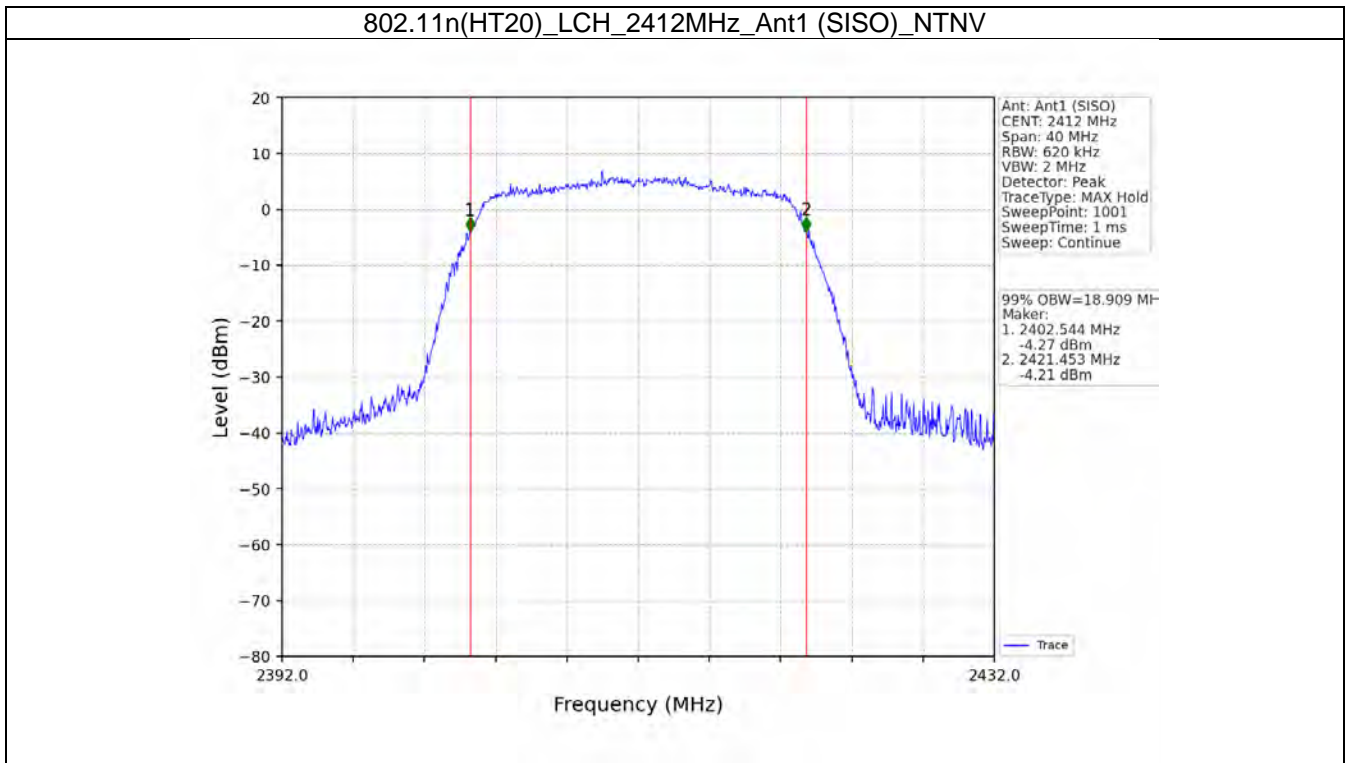
2.2 Test Graph

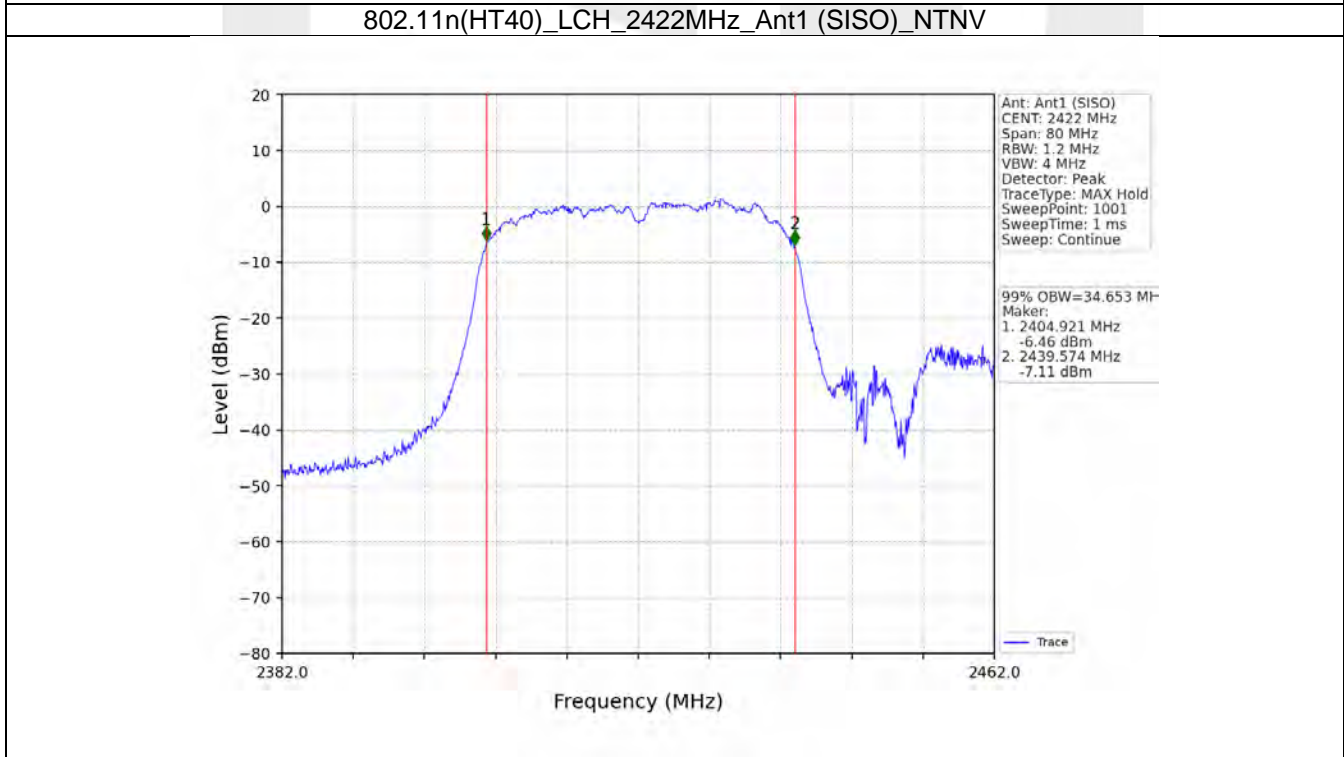
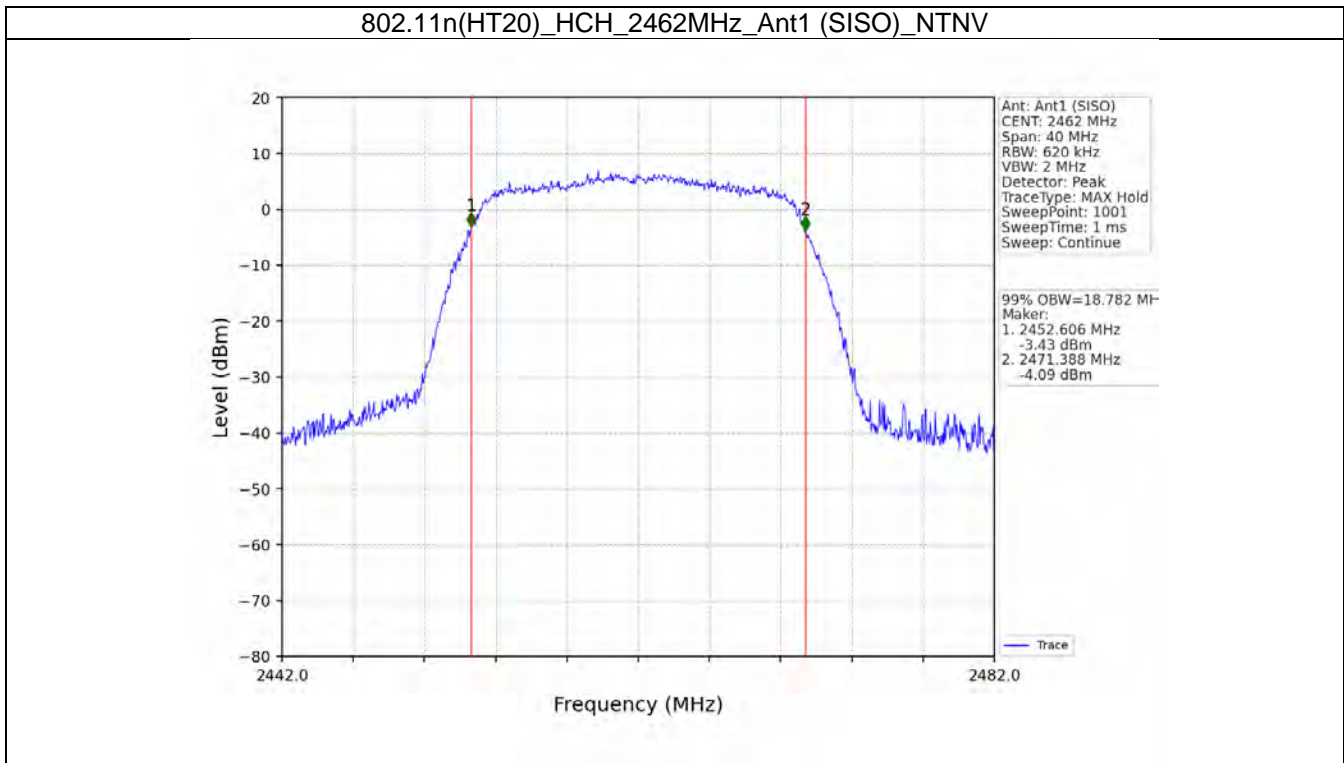
2.2.1 OBW

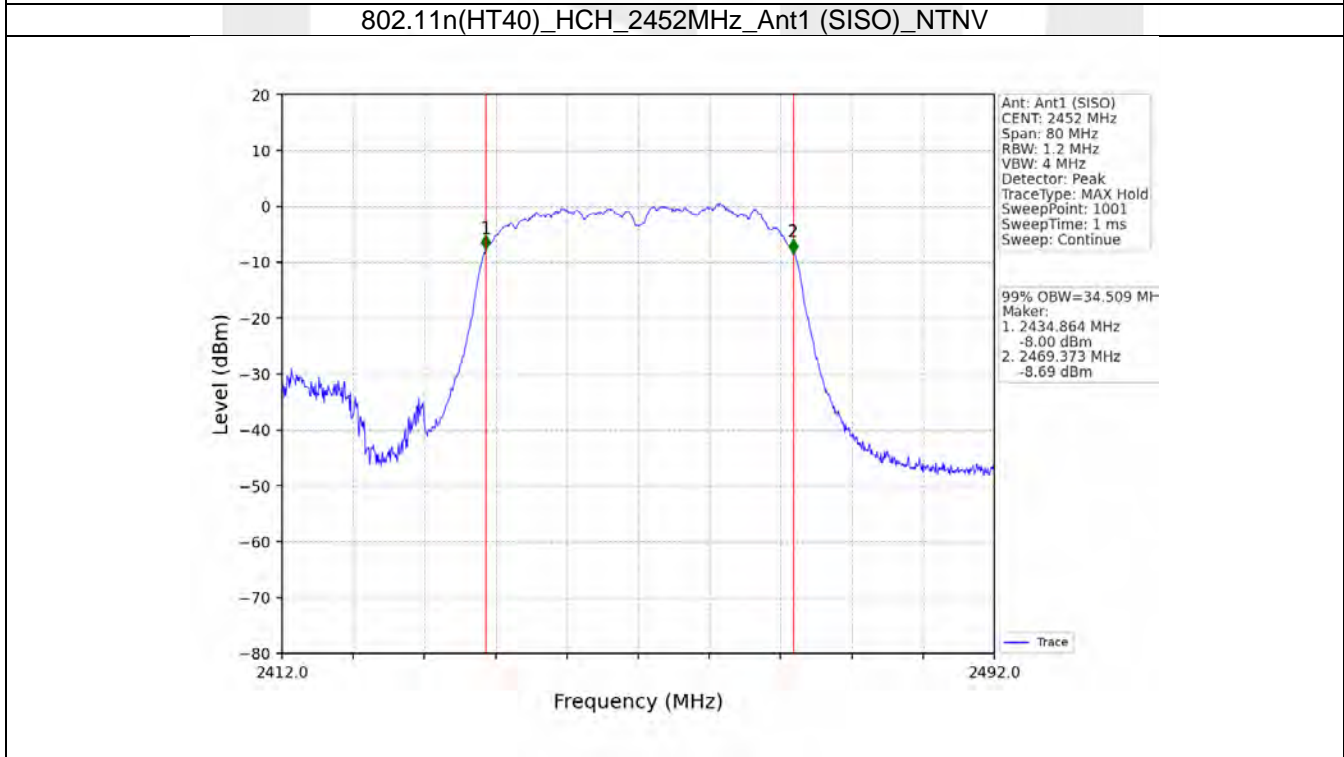
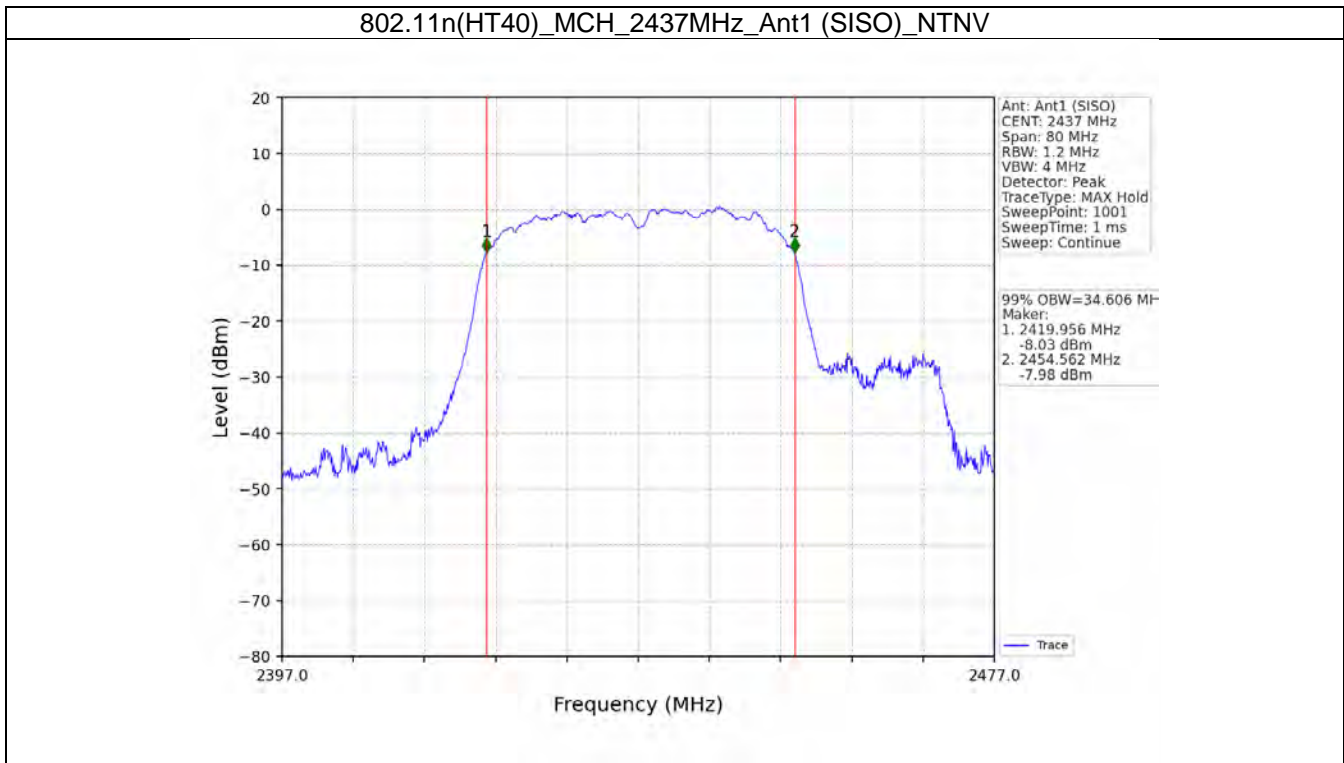




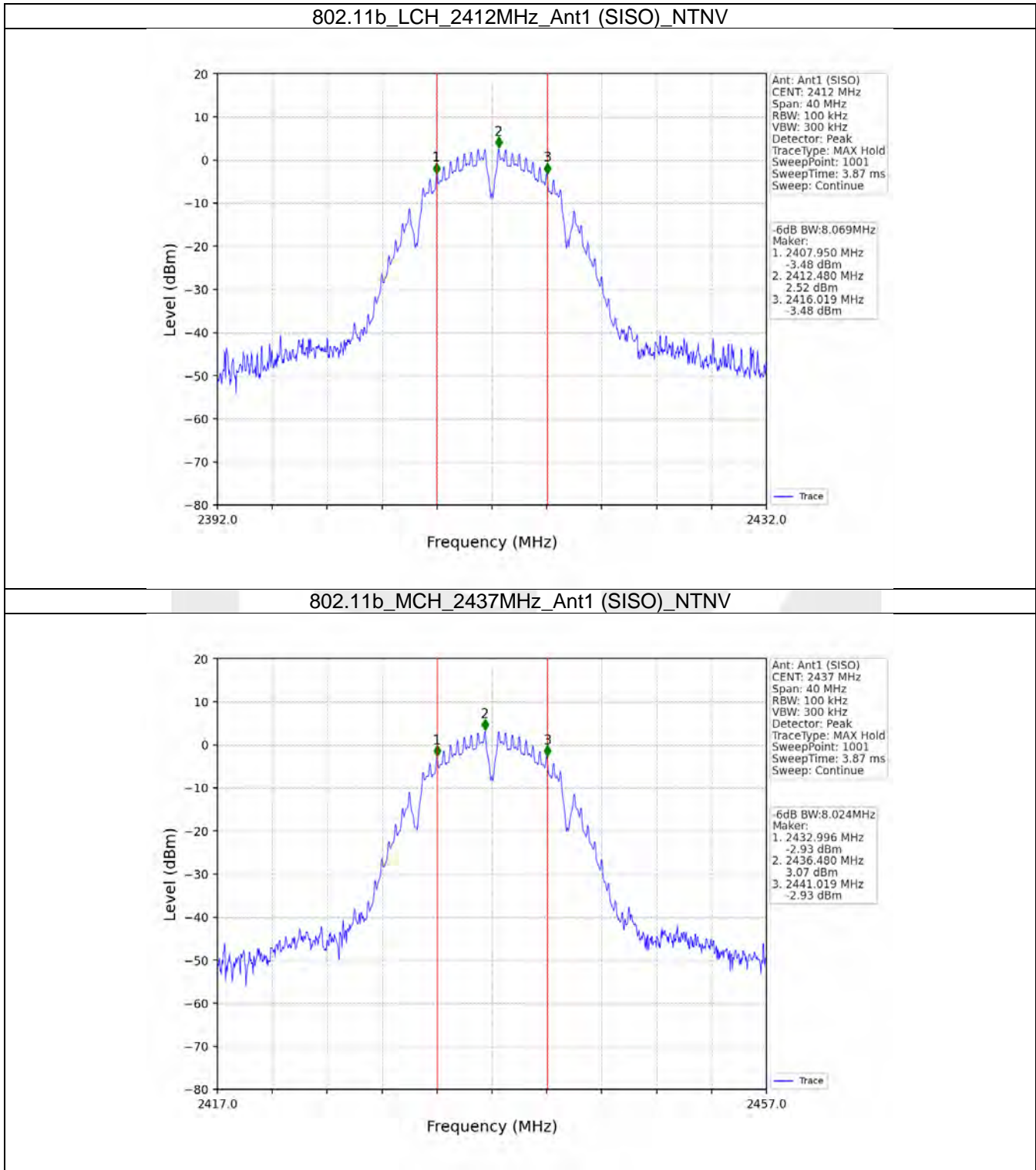


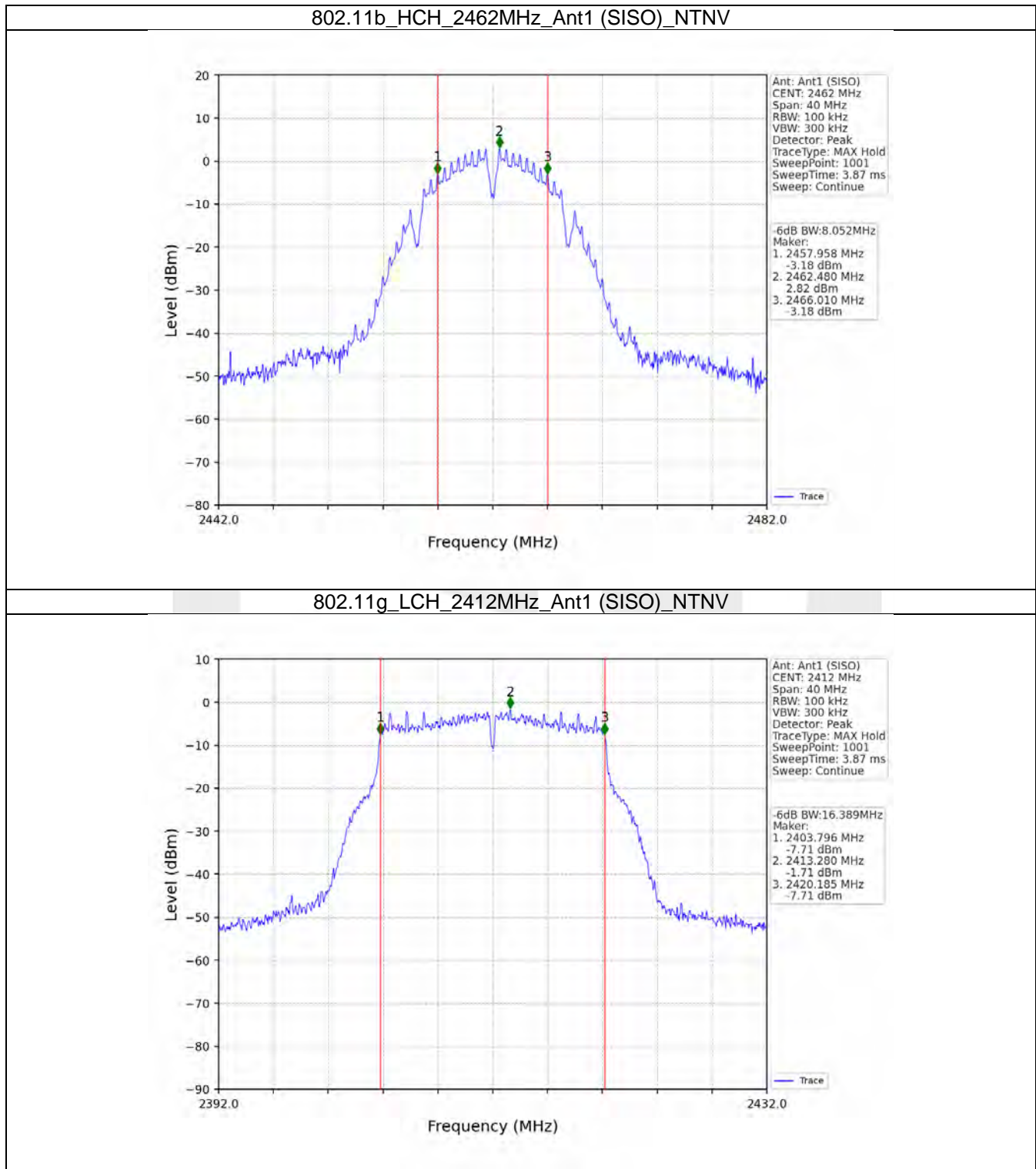




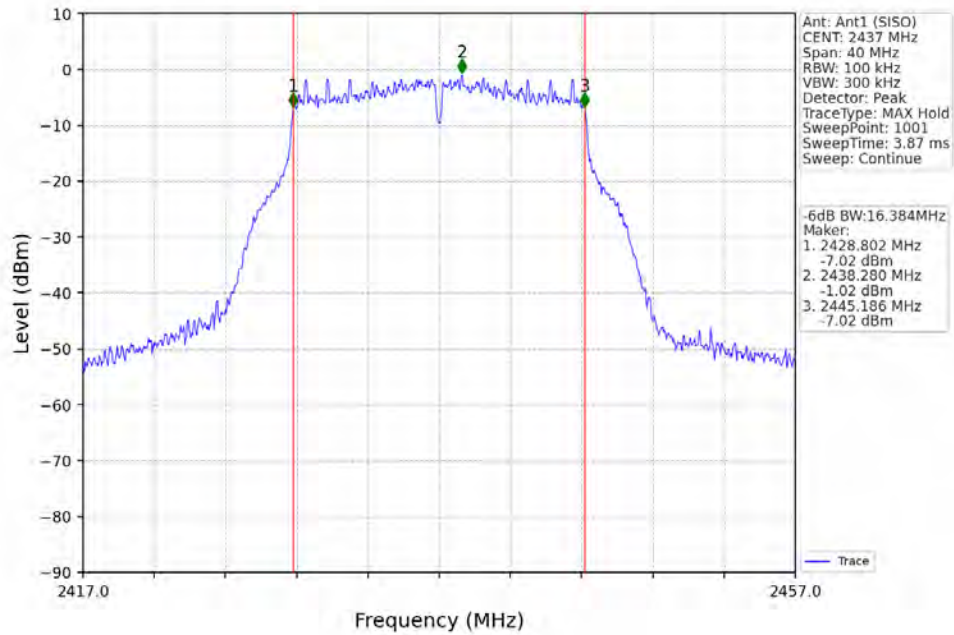


2.2.2 6dB BW

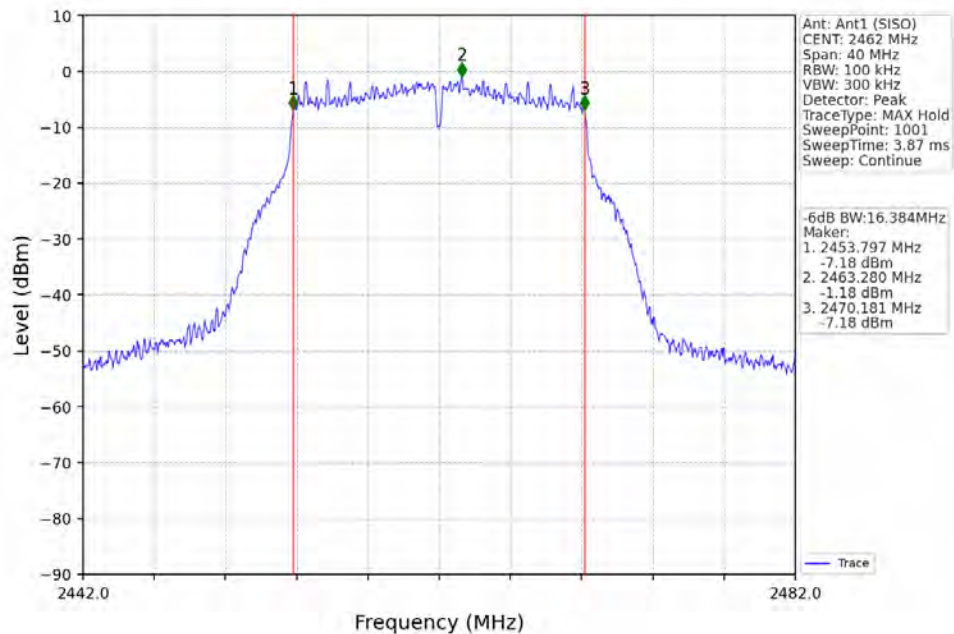


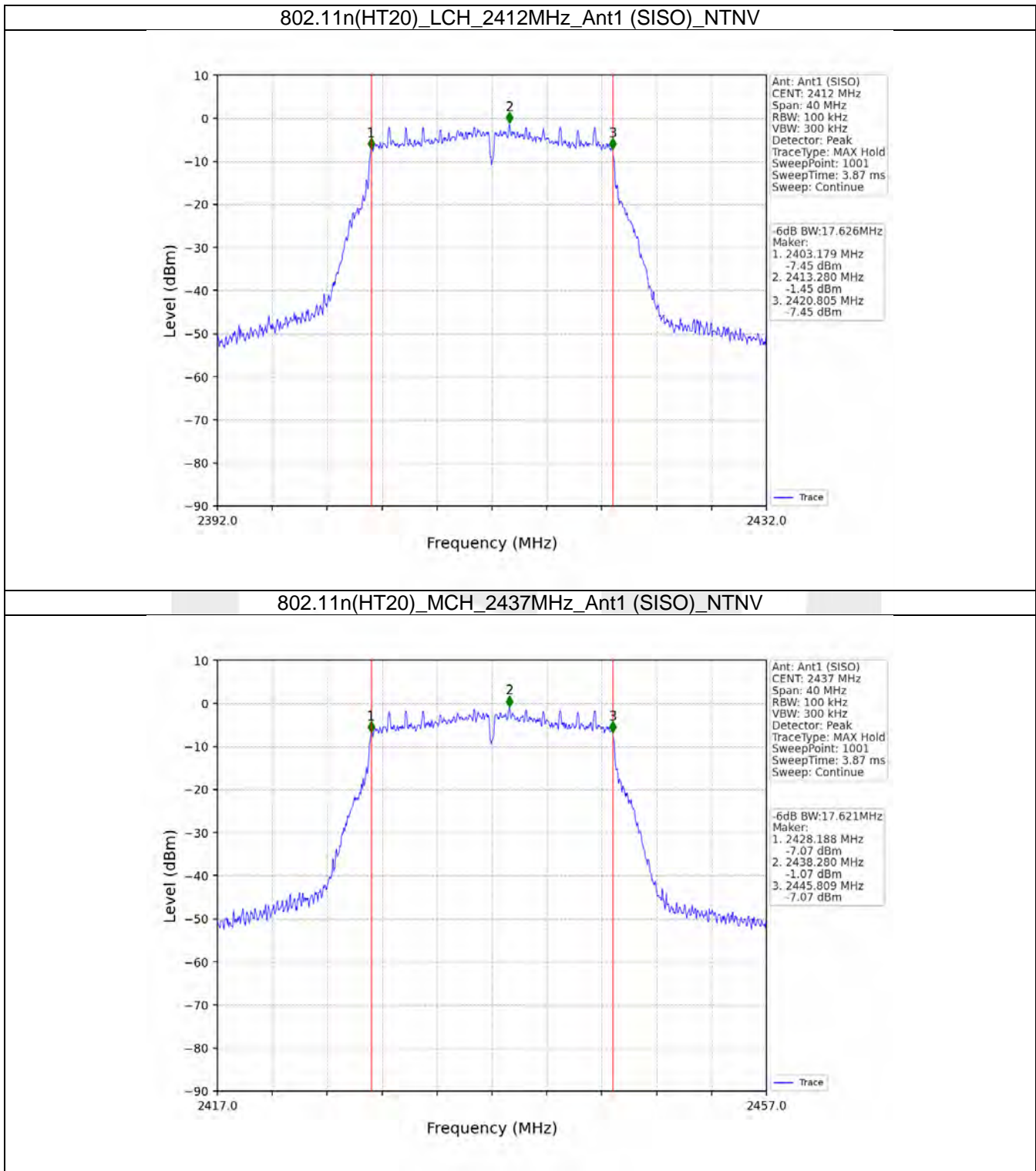


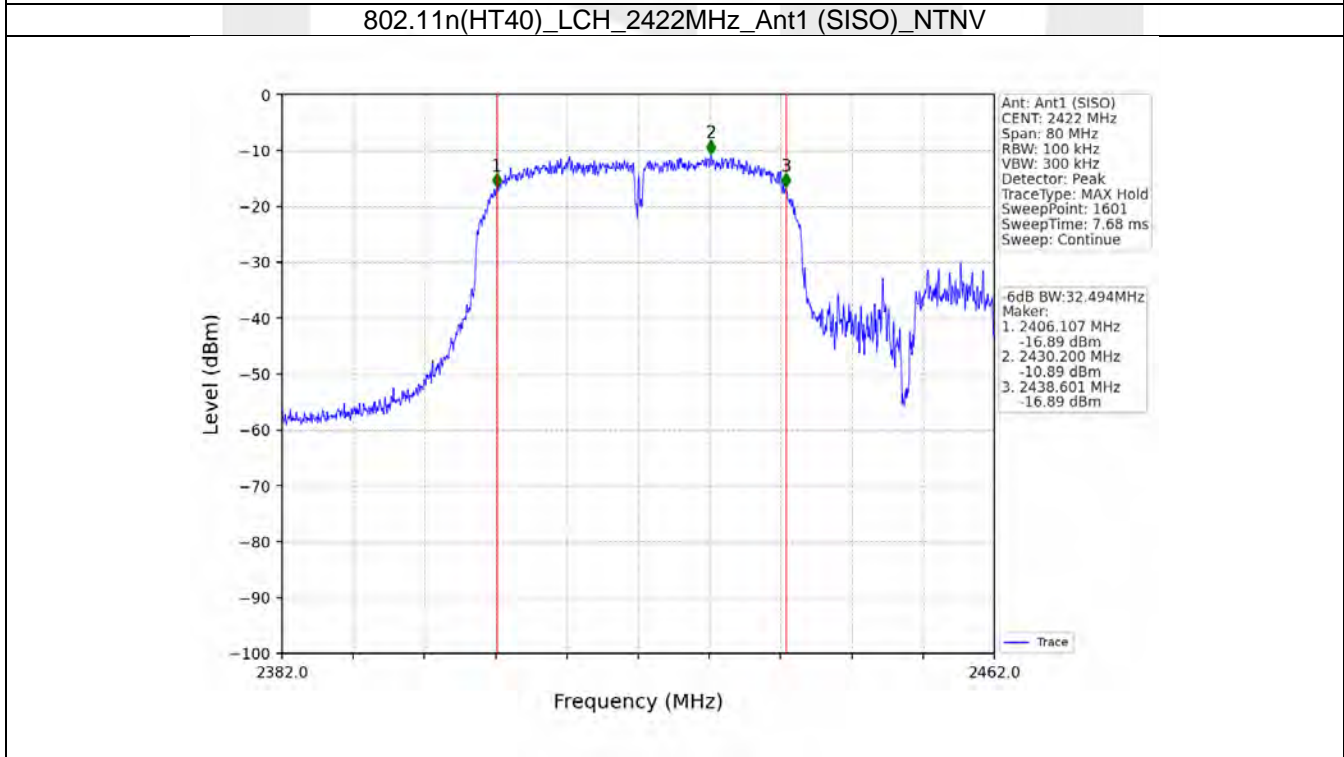
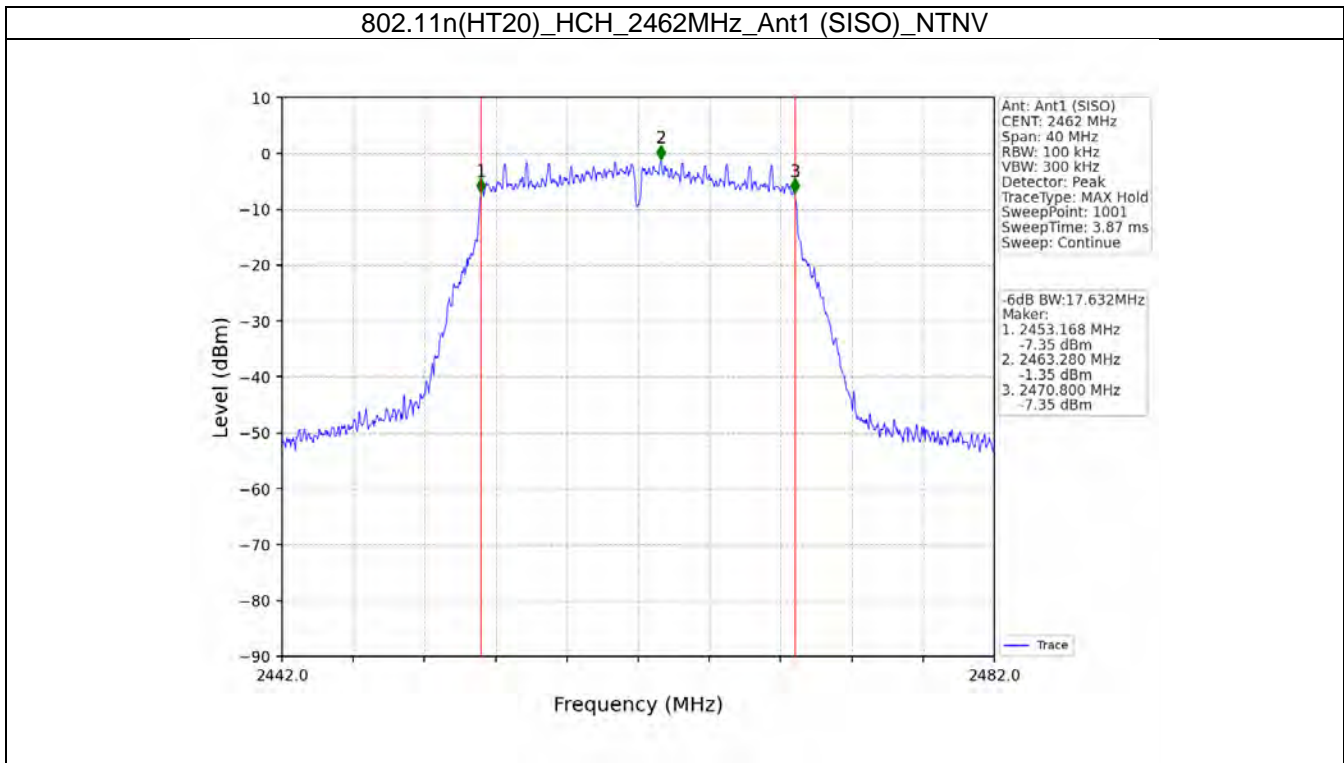
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV

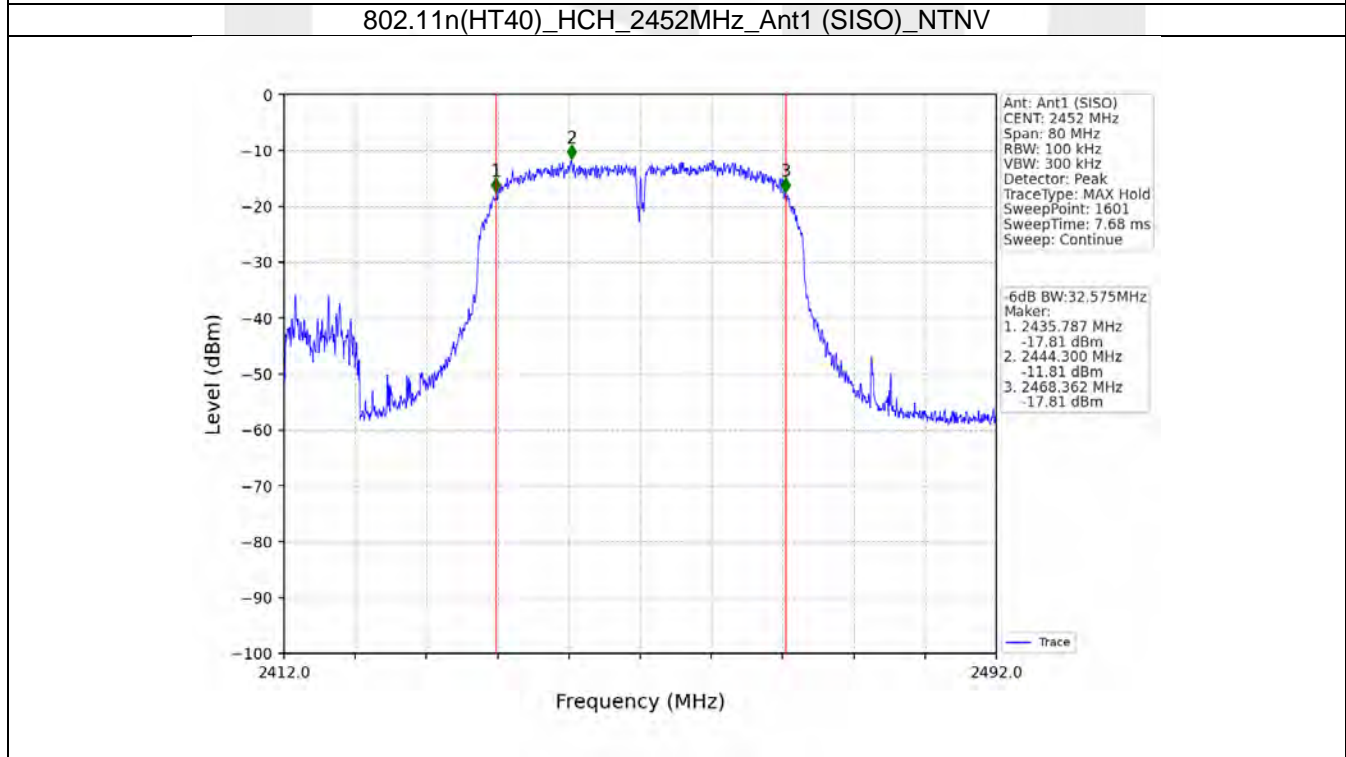
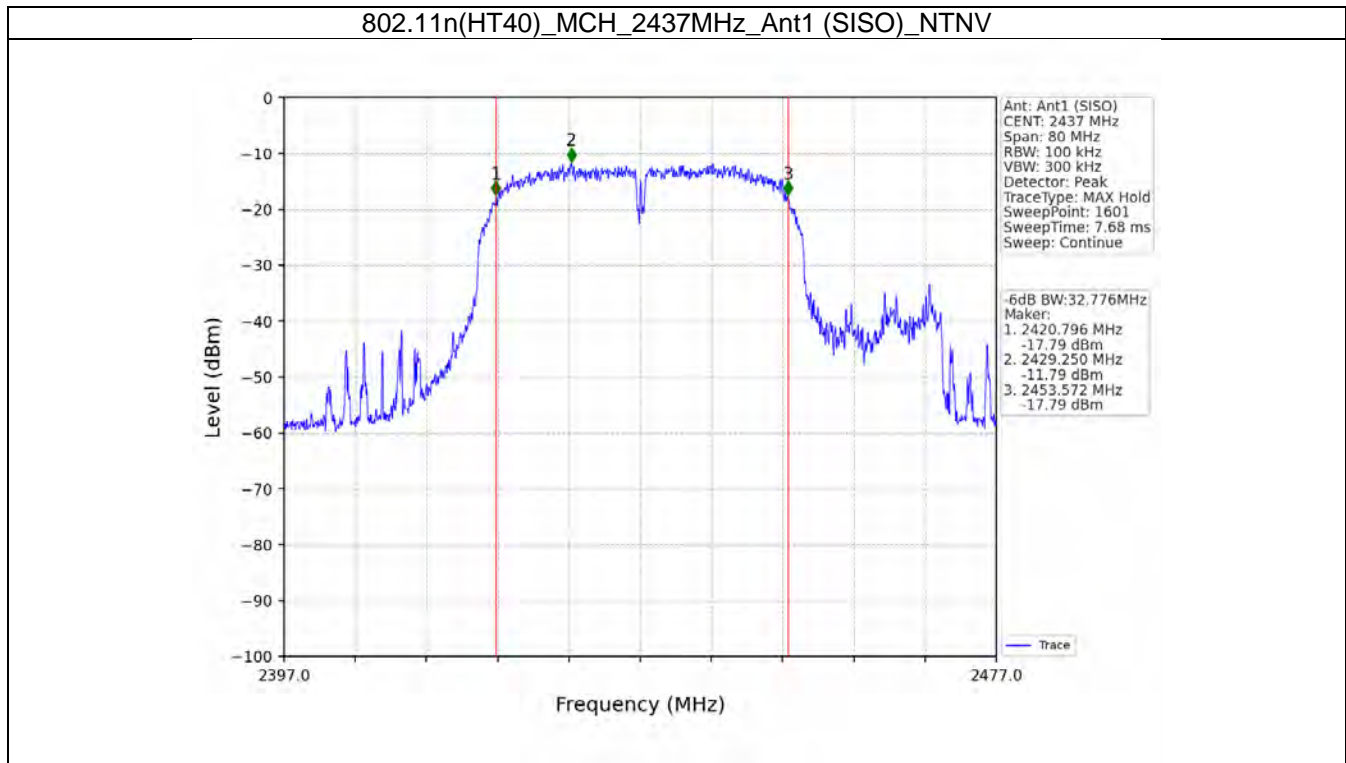


802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV









3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)			Verdict
			ANT1	ANT2	Limit	
802.11b	SISO	2412	12.76	14.28	<=30	Pass
		2437	13.21	14.30	<=30	Pass
		2462	12.94	14.32	<=30	Pass
802.11g	SISO	2412	18.17	19.86	<=30	Pass
		2437	18.81	20.08	<=30	Pass
		2462	18.75	19.68	<=30	Pass
802.11n (HT20)	SISO	2412	18.35	19.86	<=30	Pass
		2437	18.82	20.12	<=30	Pass
		2462	18.59	20.01	<=30	Pass
802.11n (HT40)	SISO	2422	12.56	14.70	<=30	Pass
		2437	12.15	14.56	<=30	Pass
		2452	12.00	14.57	<=30	Pass

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11g	SISO	2412	18.17	19.86	22.11	<=30	Pass
		2437	18.81	20.08	22.50	<=30	Pass
		2462	18.75	19.68	22.25	<=30	Pass
802.11n (HT20)	SISO	2412	18.35	19.86	22.18	<=30	Pass
		2437	18.82	20.12	22.53	<=30	Pass
		2462	18.59	20.01	22.37	<=30	Pass
802.11n (HT40)	SISO	2422	12.56	14.70	16.77	<=30	Pass
		2437	12.15	14.56	16.53	<=30	Pass
		2452	12.00	14.57	16.48	<=30	Pass

Note1: Antenna Gain: Ant1: 1.58dBi; Ant2: 1.58dBi;

Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain=1.58dBi)

4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)			Verdict
			ANT1	ANT2	Limit	
802.11b	SISO	2412	-11.86	-10.01	<=8	Pass
		2437	-12.50	-10.37	<=8	Pass
		2462	-11.54	-11.41	<=8	Pass
802.11g	SISO	2412	-14.34	-13.09	<=8	Pass
		2437	-12.89	-11.98	<=8	Pass
		2462	-13.18	-13.35	<=8	Pass
802.11n (HT20)	SISO	2412	-14.49	-13.38	<=8	Pass
		2437	-13.10	-12.62	<=8	Pass
		2462	-14.69	-12.61	<=8	Pass
802.11n (HT40)	SISO	2422	-20.30	-19.84	<=8	Pass
		2437	-19.92	-20.45	<=8	Pass
		2452	-19.59	-19.43	<=8	Pass

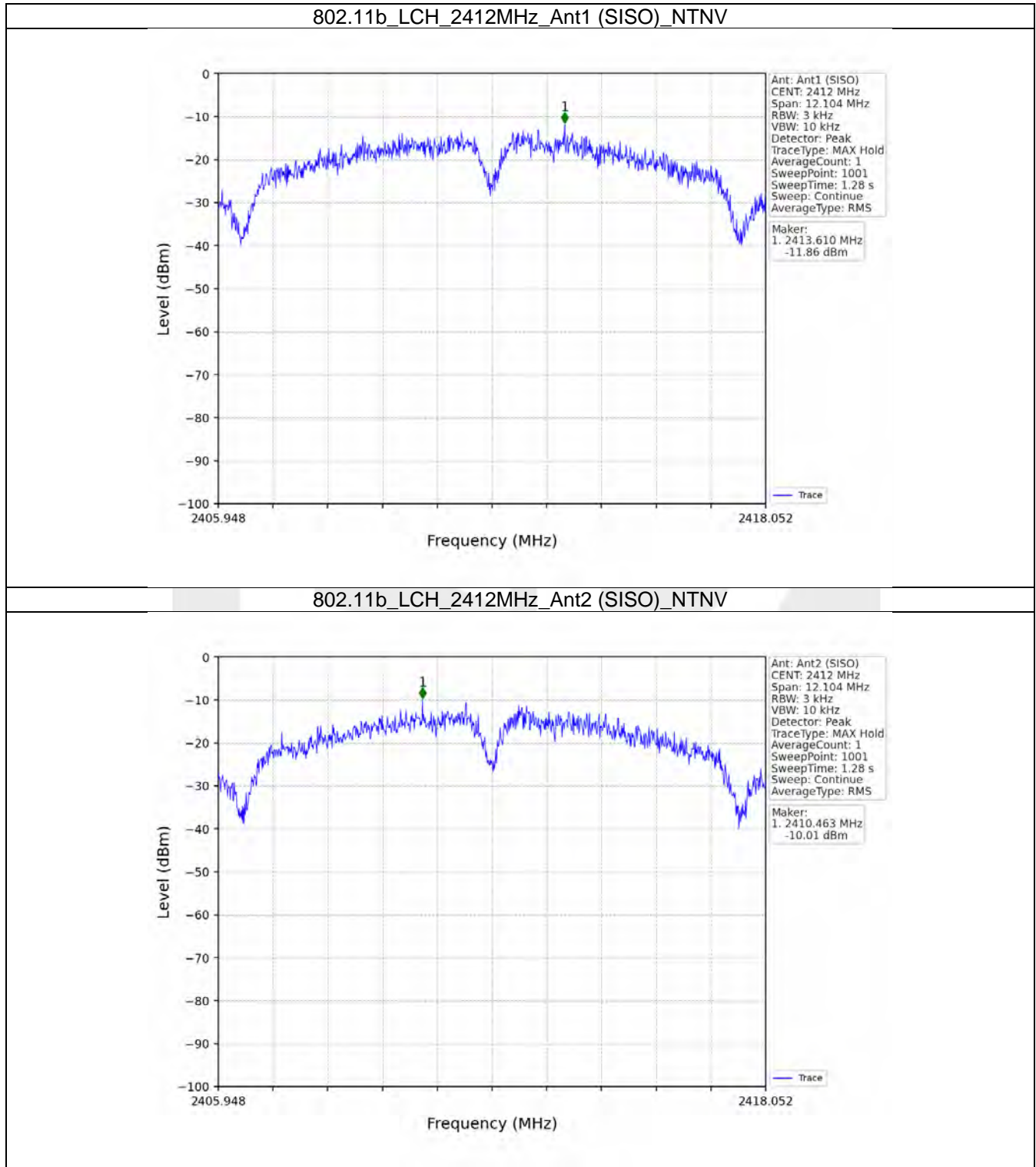
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)				Verdict
			ANT1	ANT2	MIMO	Limit	
802.11g	SISO	2412	-14.34	-13.09	-10.66	<=8	Pass
		2437	-12.89	-11.98	-9.40	<=8	Pass
		2462	-13.18	-13.35	-10.25	<=8	Pass
802.11n (HT20)	SISO	2412	-14.49	-13.38	-10.89	<=8	Pass
		2437	-13.10	-12.62	-9.84	<=8	Pass
		2462	-14.69	-12.61	-10.52	<=8	Pass
802.11n (HT40)	SISO	2422	-20.30	-19.84	-17.05	<=8	Pass
		2437	-19.92	-20.45	-17.17	<=8	Pass
		2452	-19.59	-19.43	-16.50	<=8	Pass

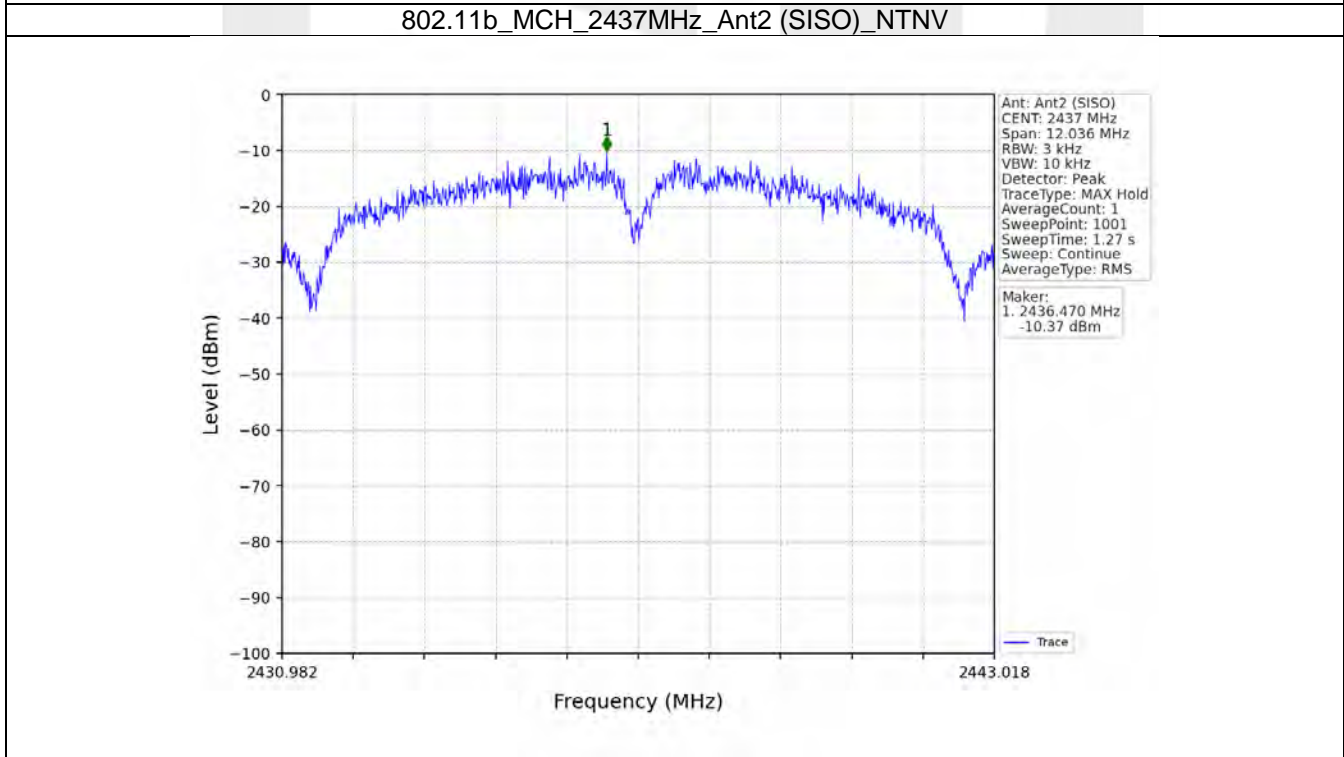
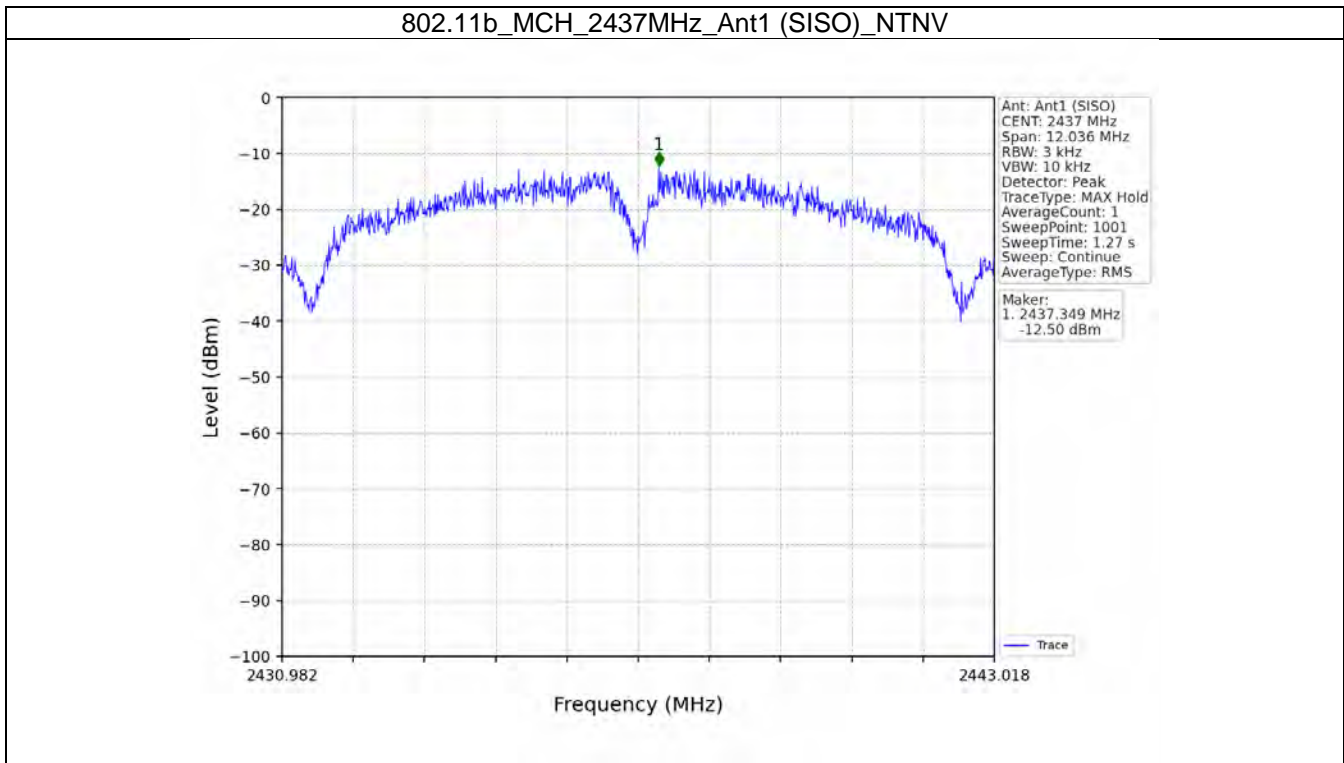
Note1: Antenna Gain: Ant1: 1.58dBi; Ant2: 1.58dBi;

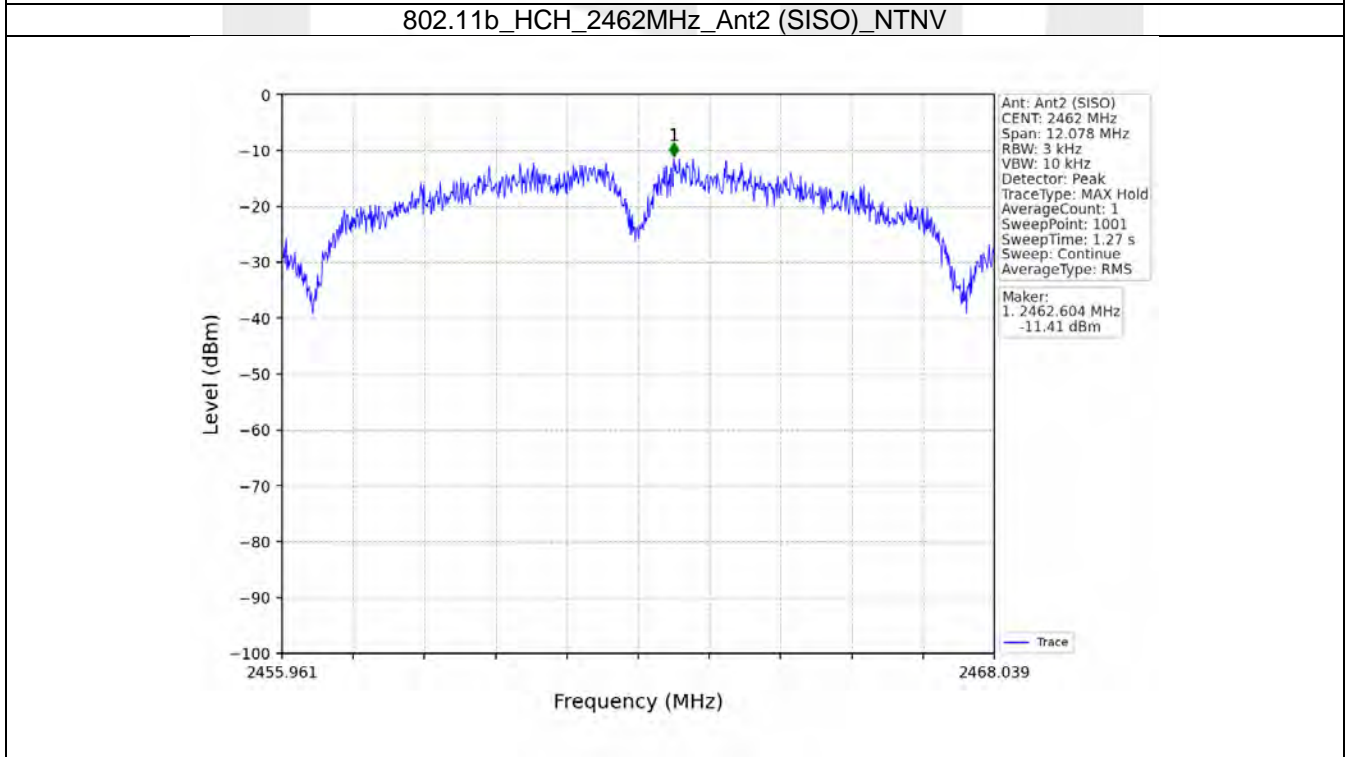
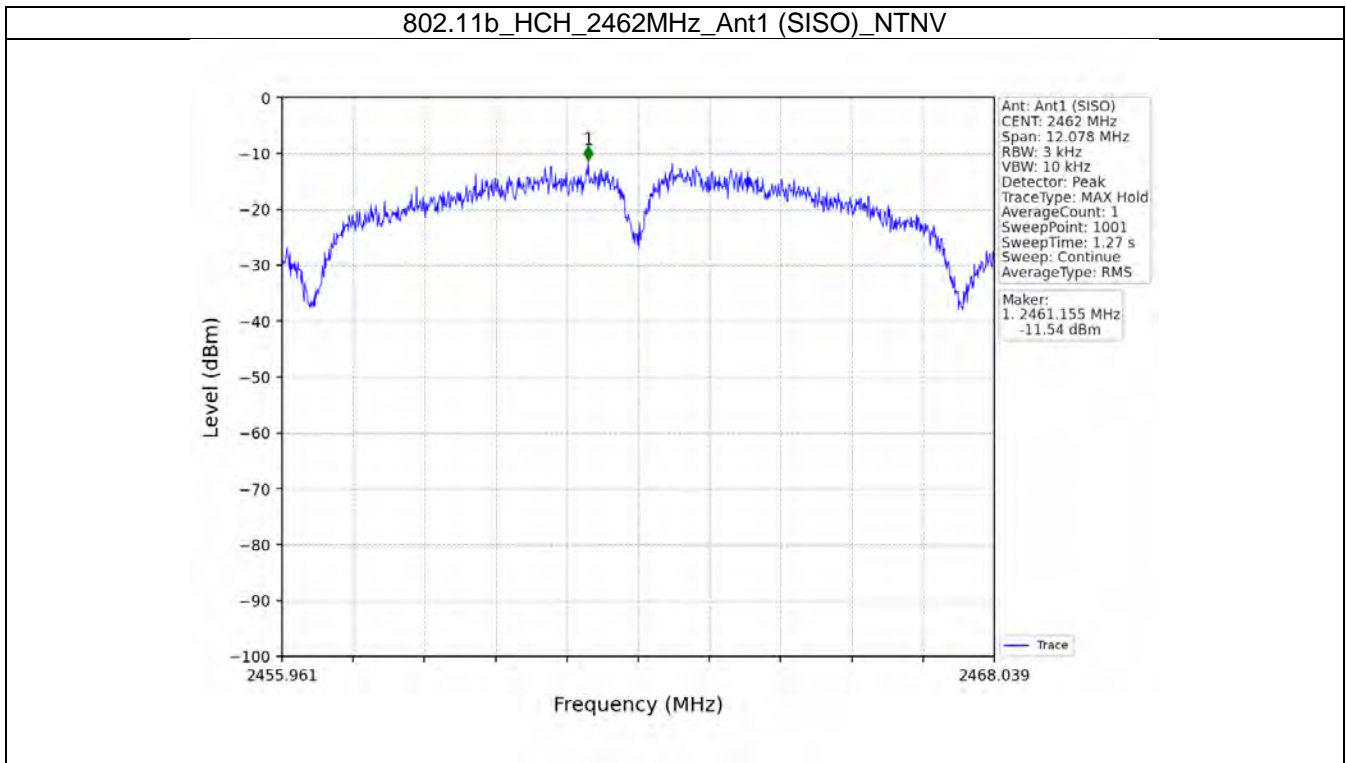
Note2: Directional Gain: Uncorrelated(Directional Gain = Ant Gain=1.58dBi)

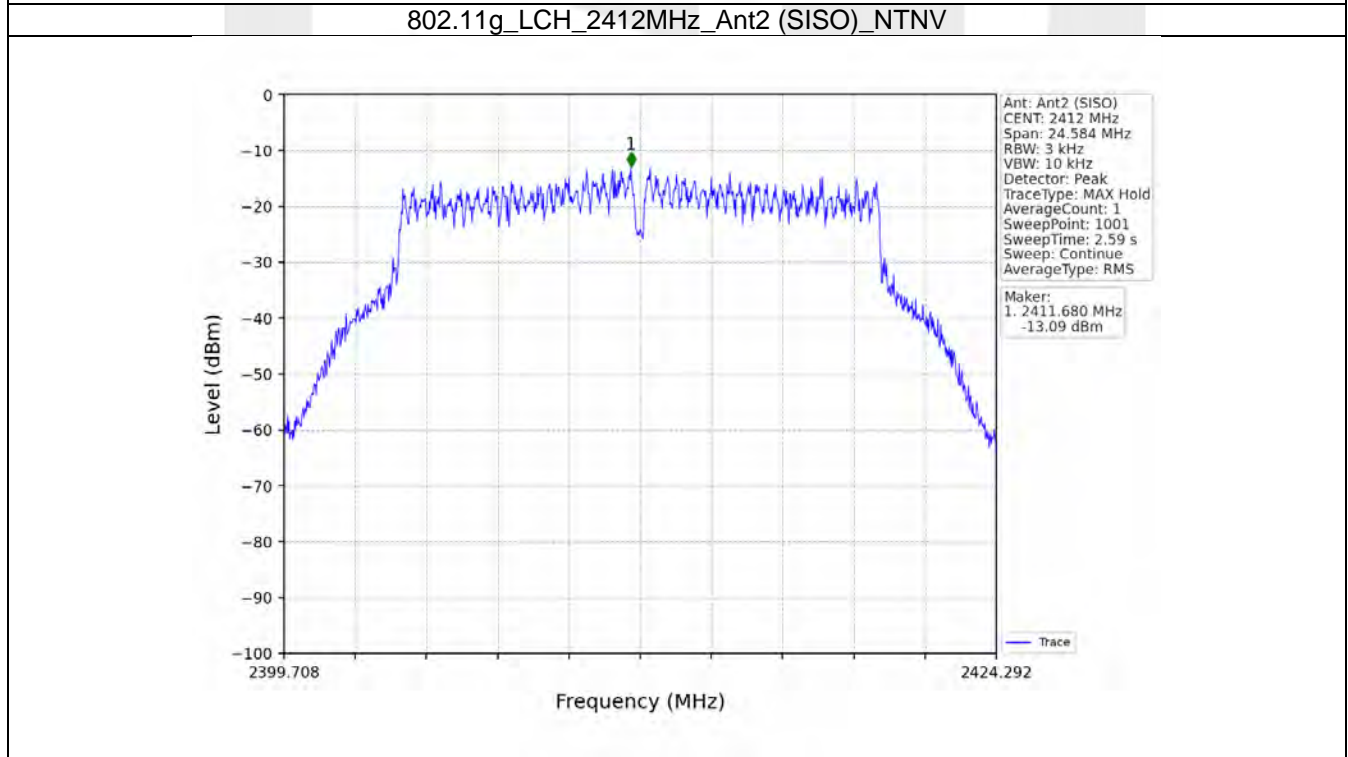
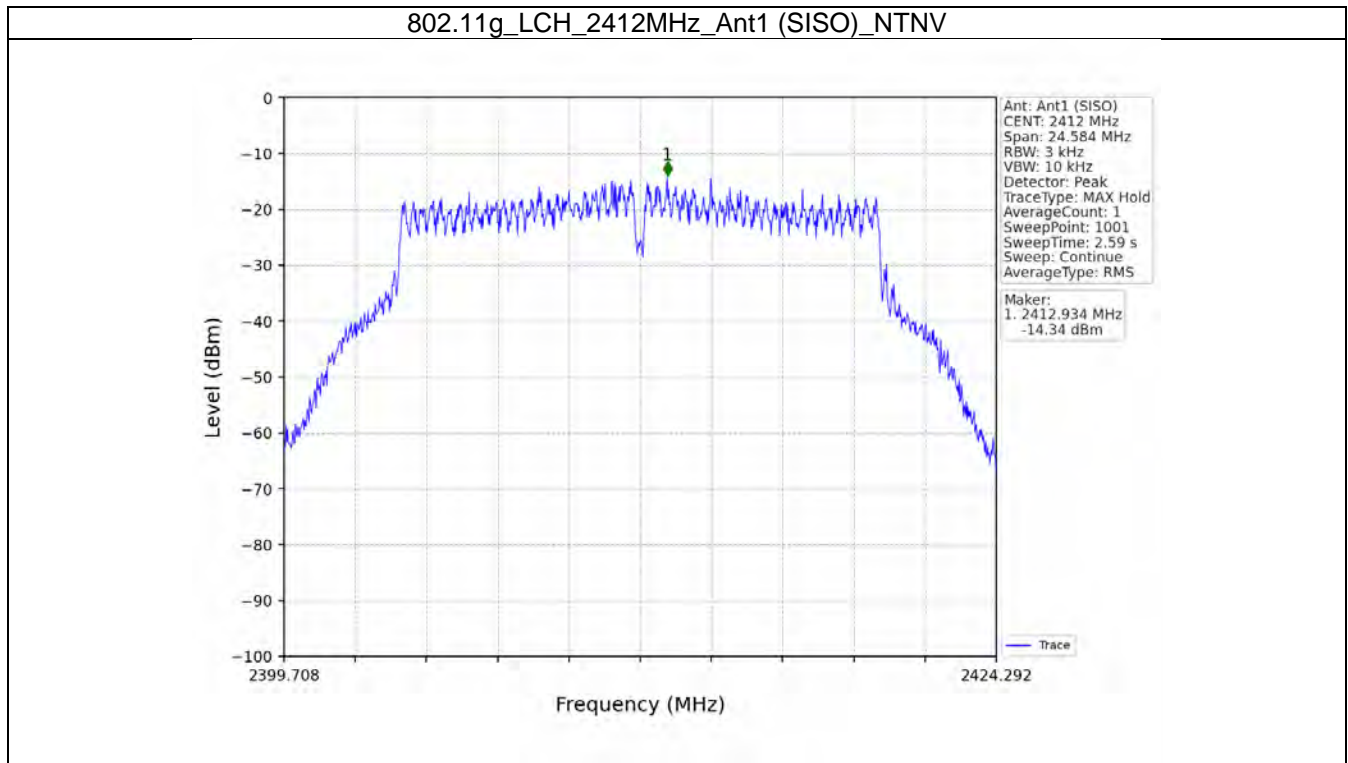
4.2 Test Graph

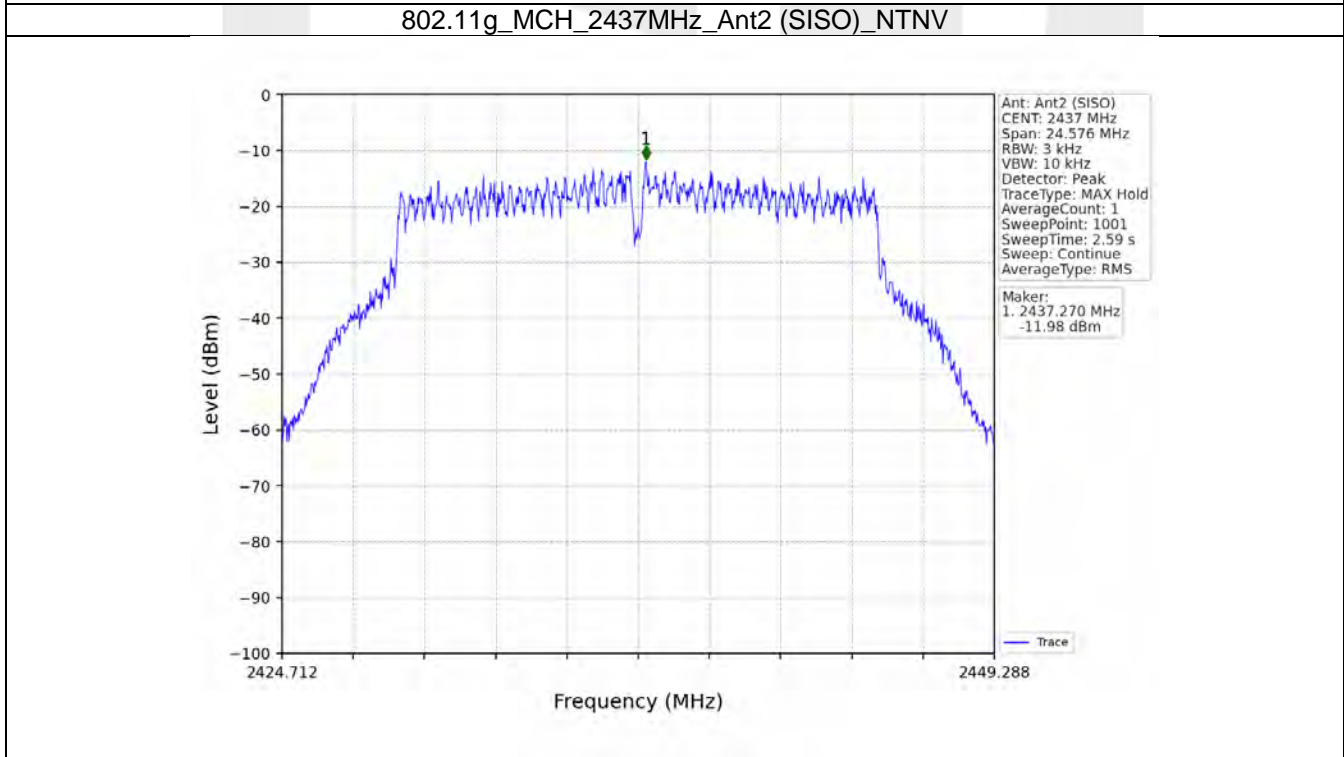
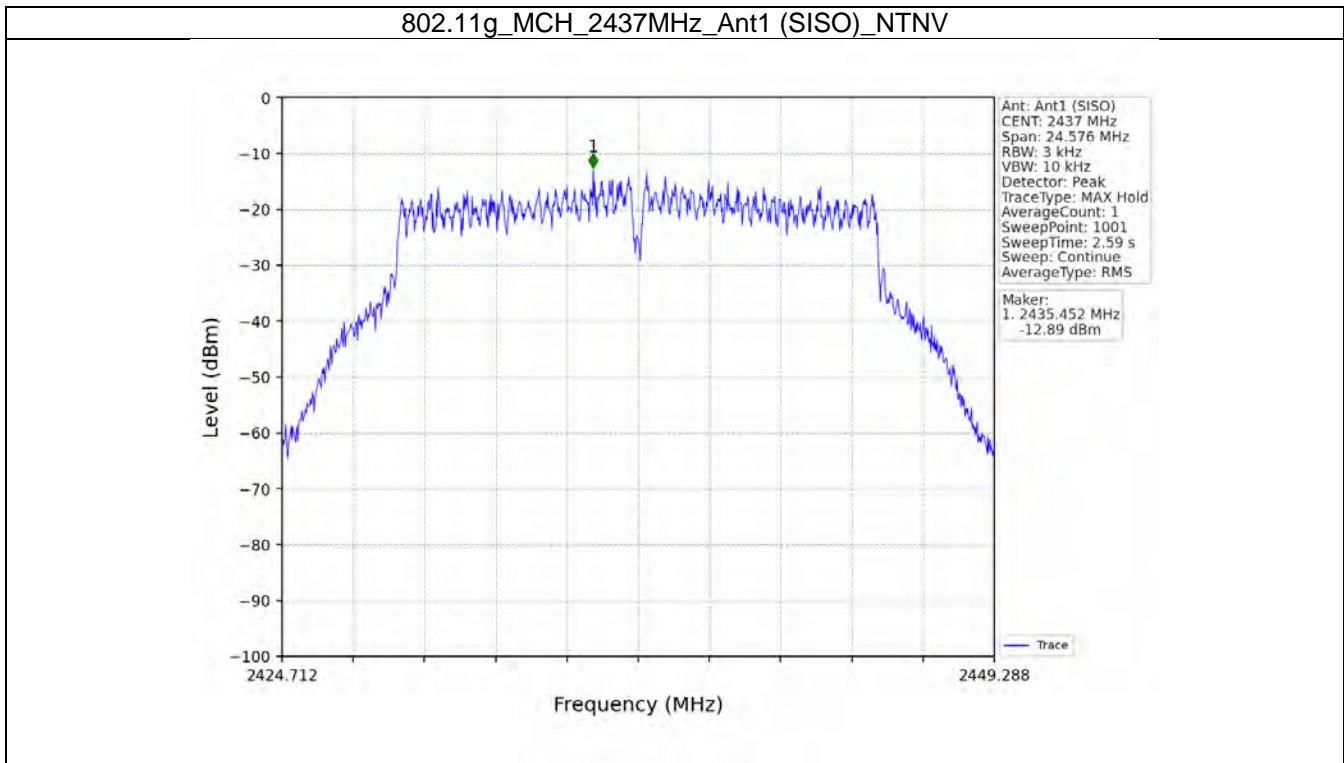
4.2.1 PSD

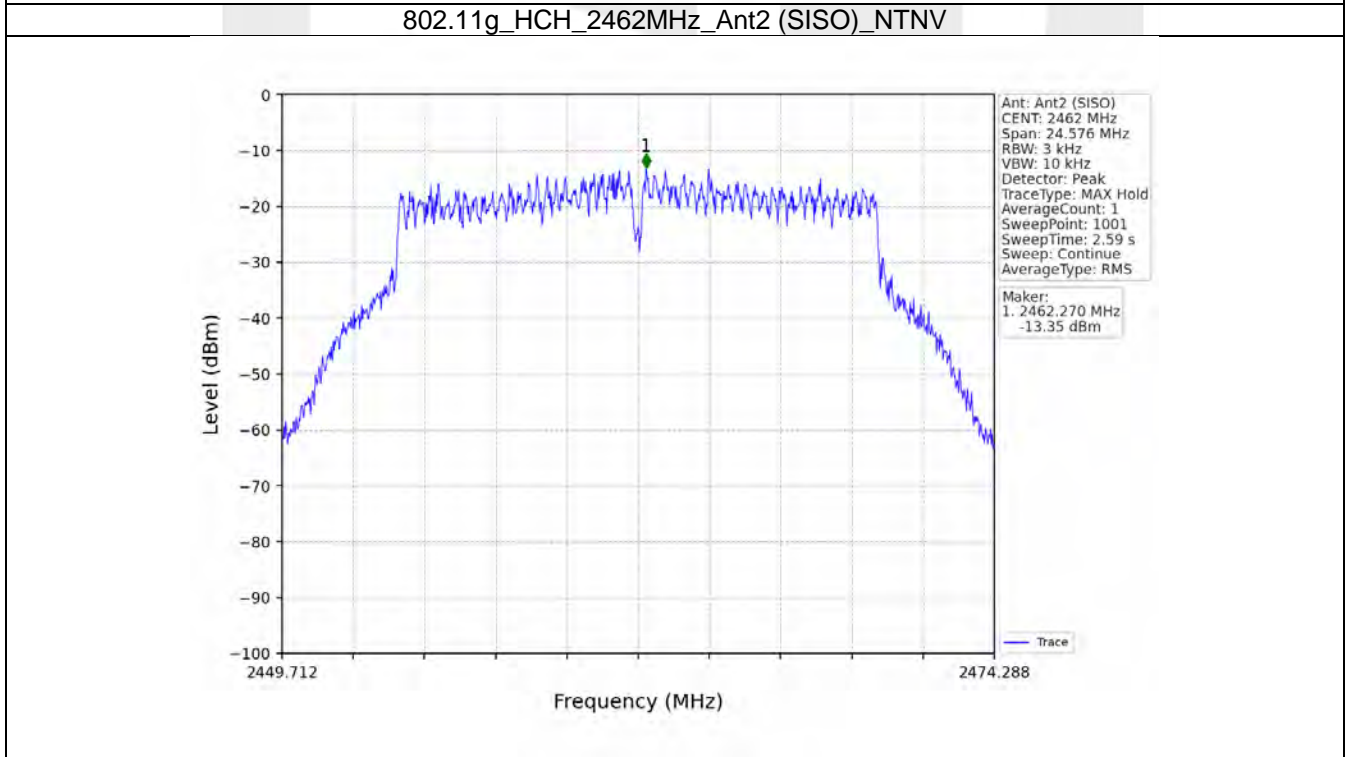
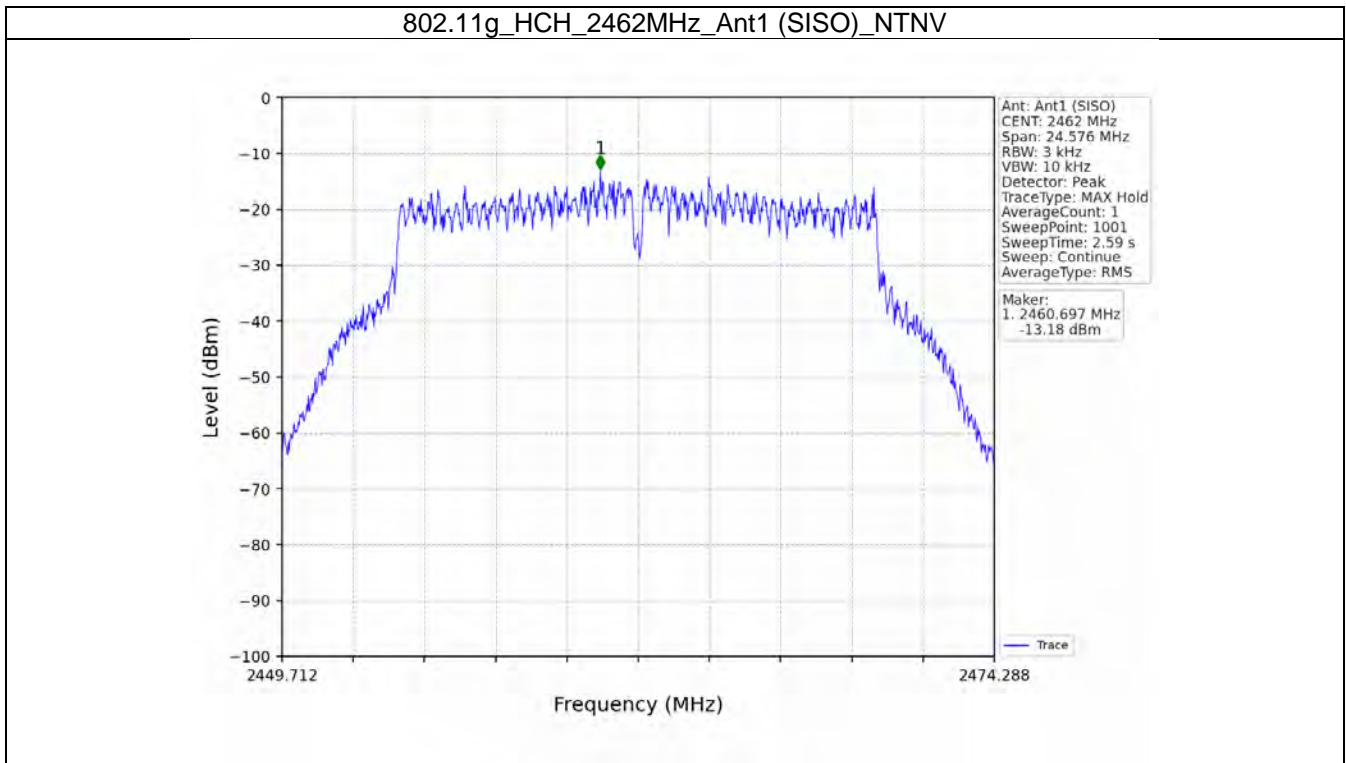


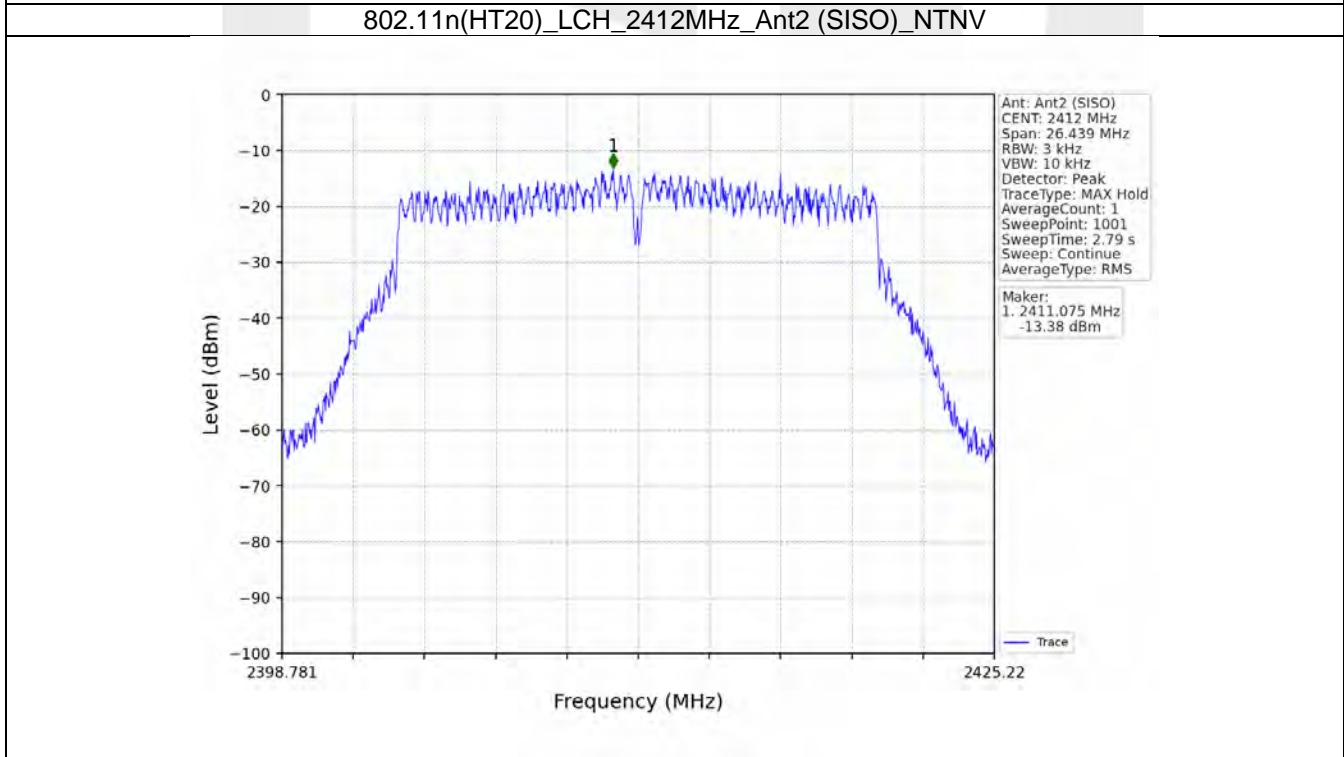
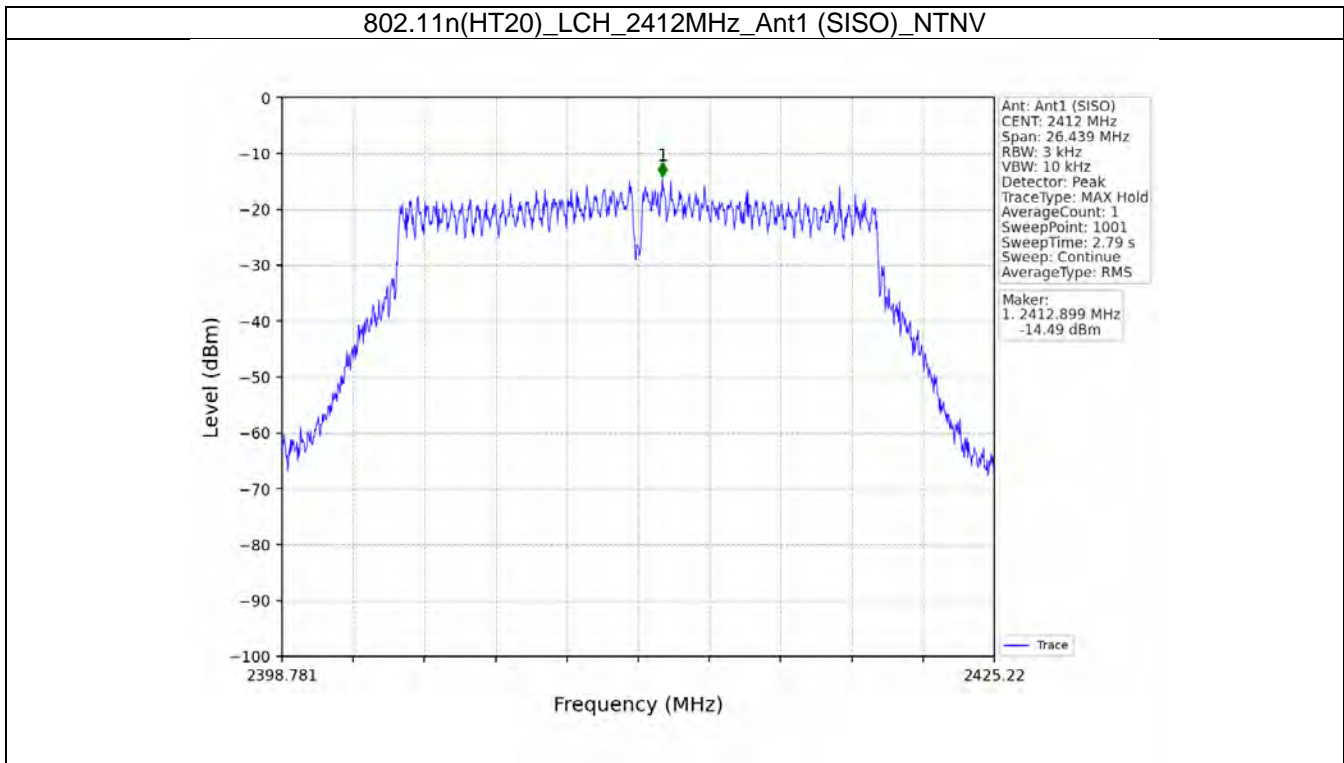


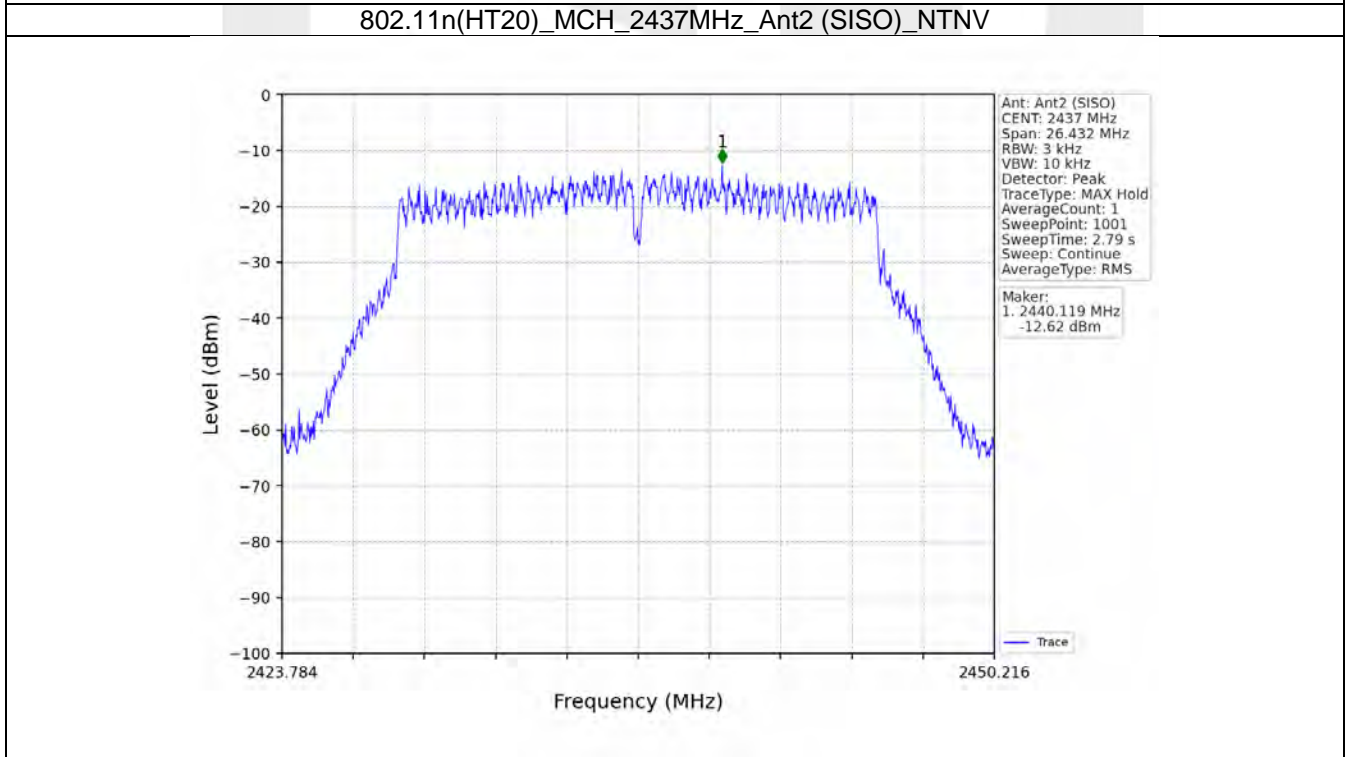
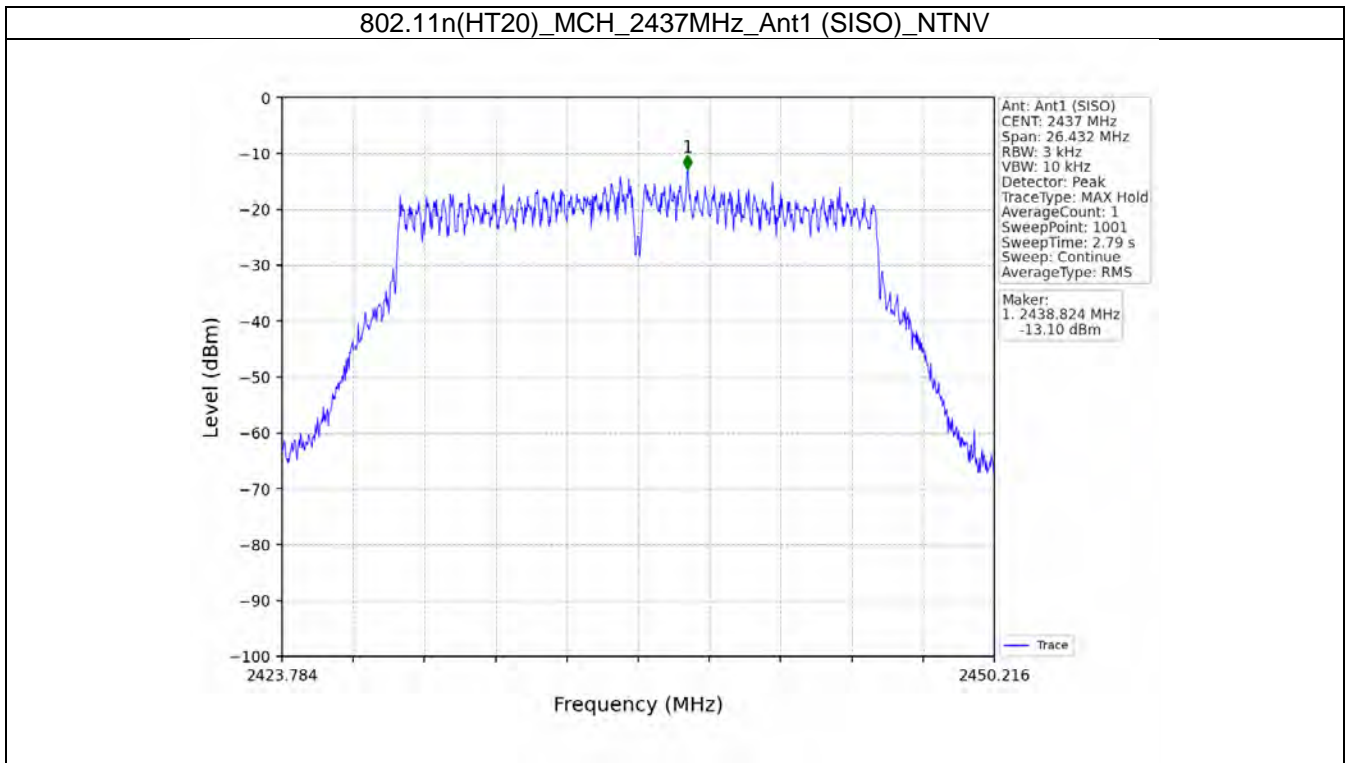


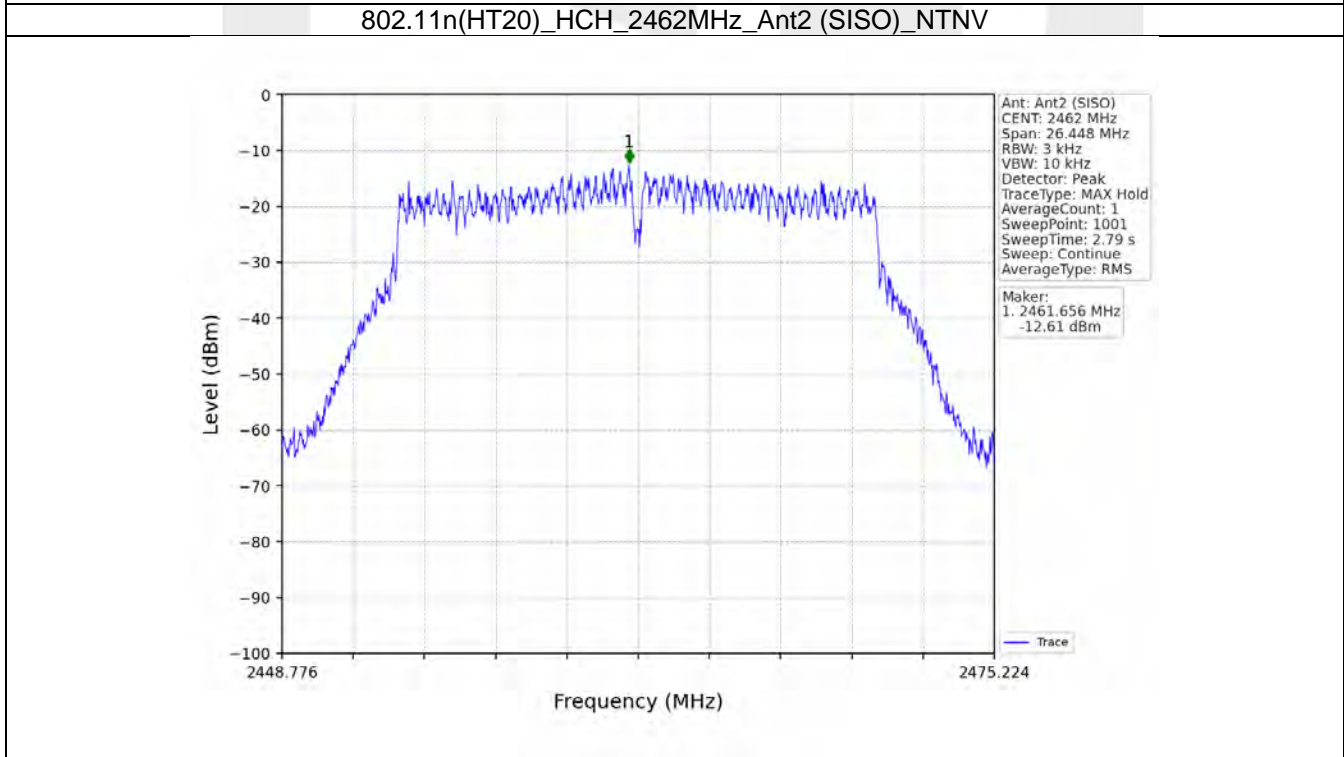
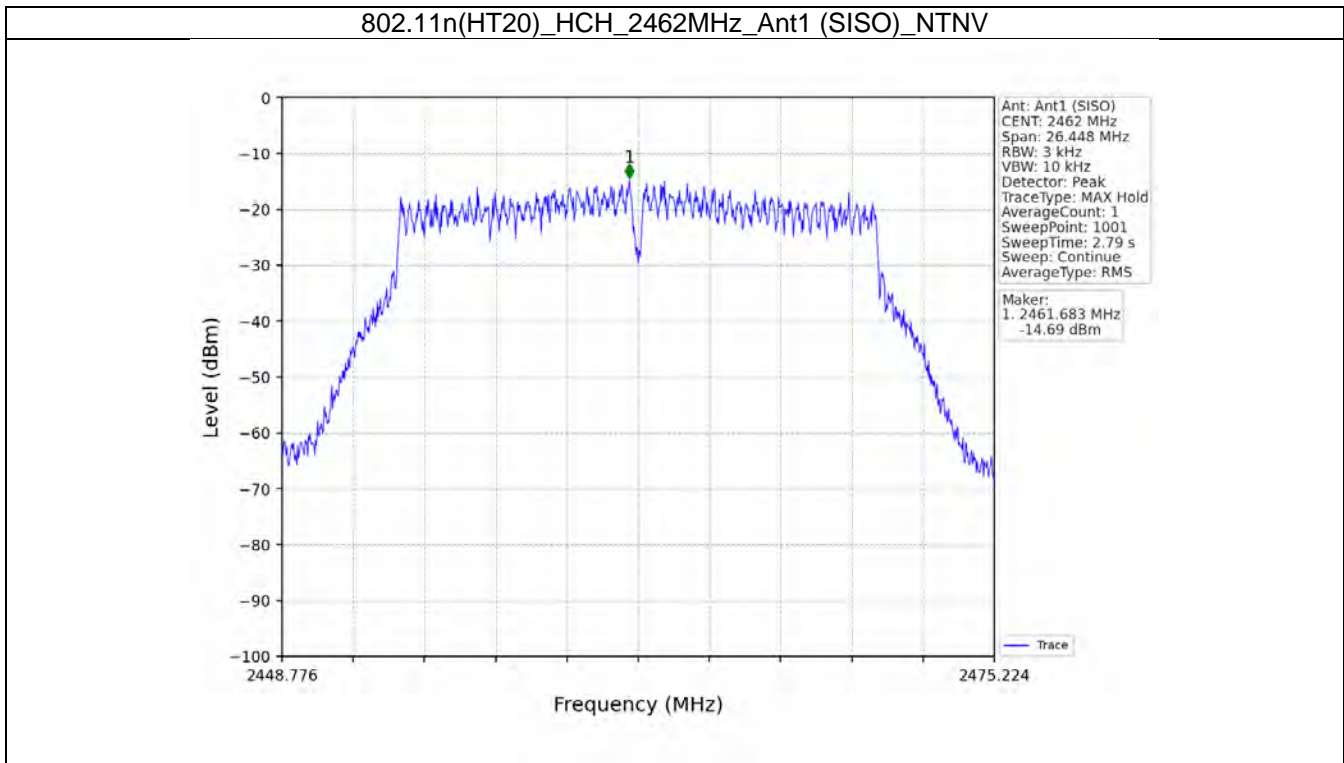


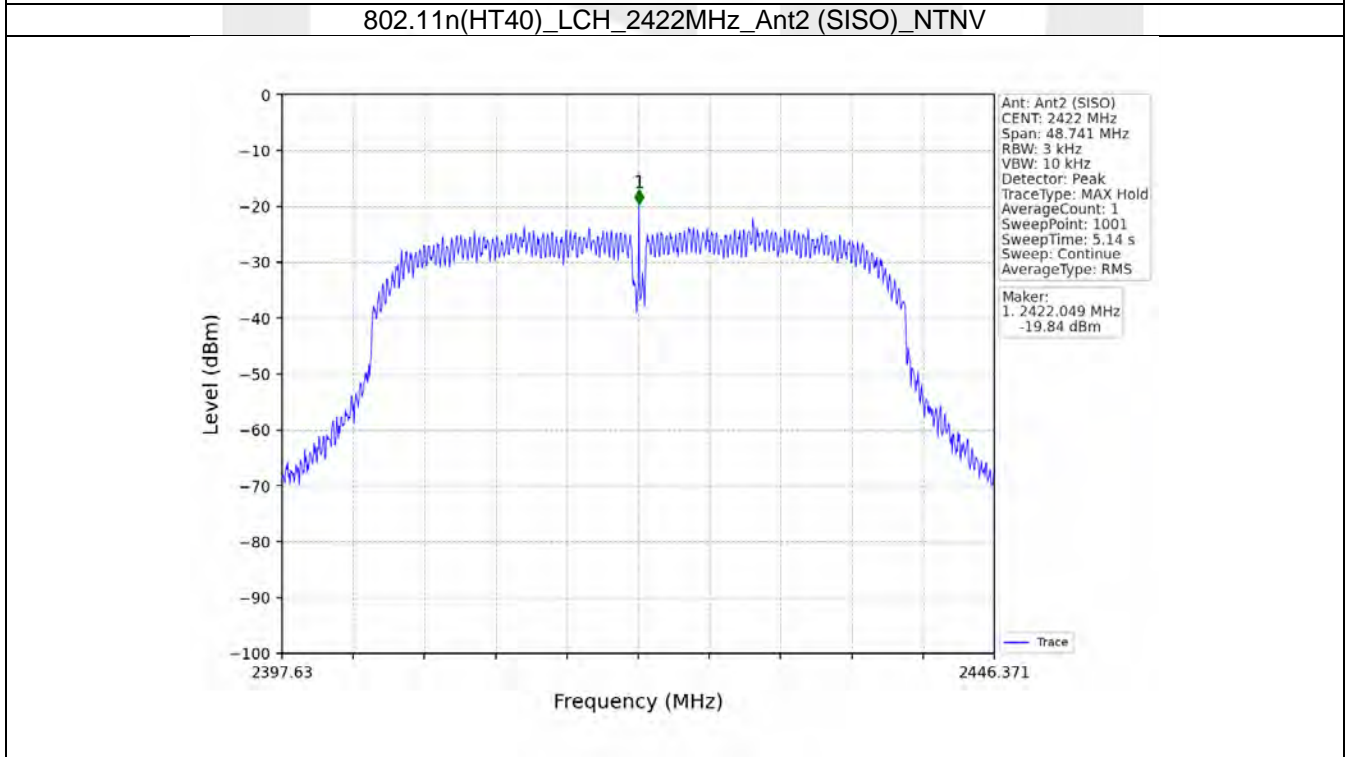
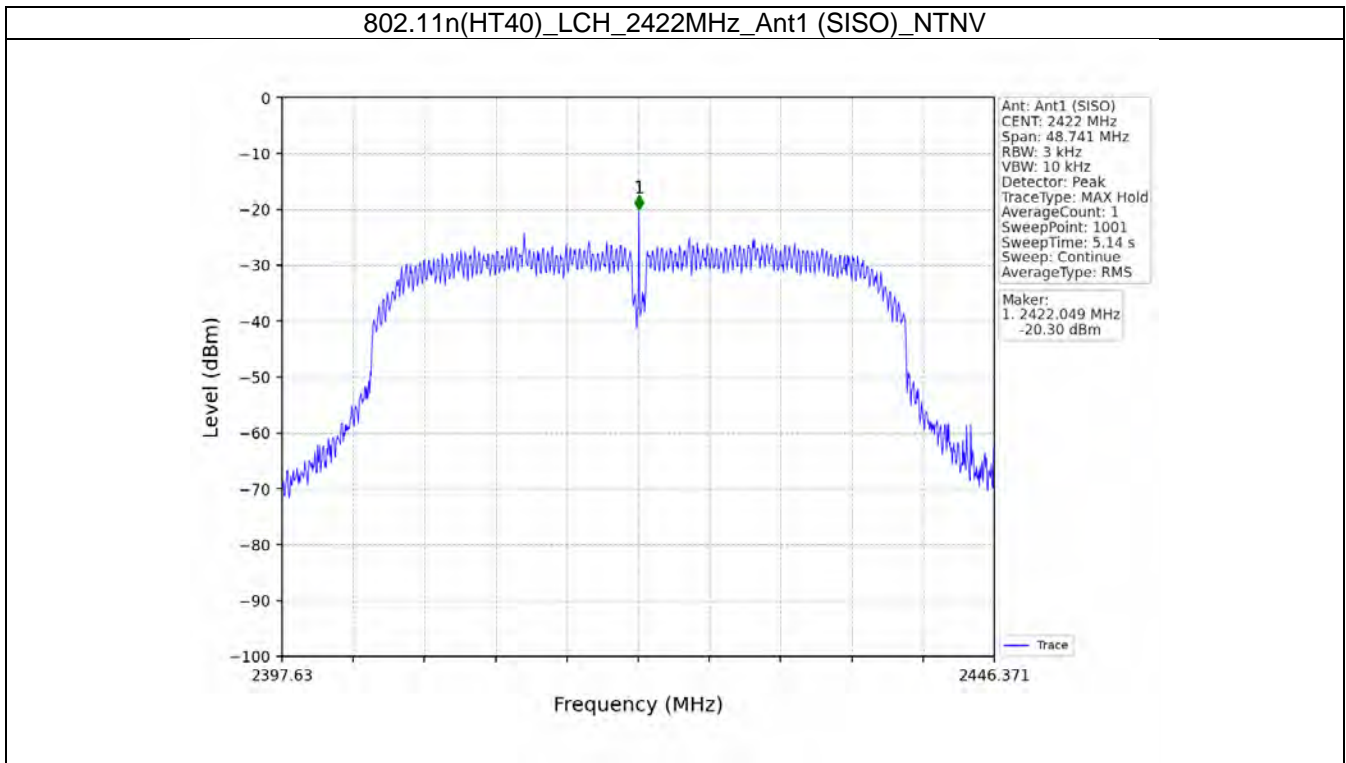


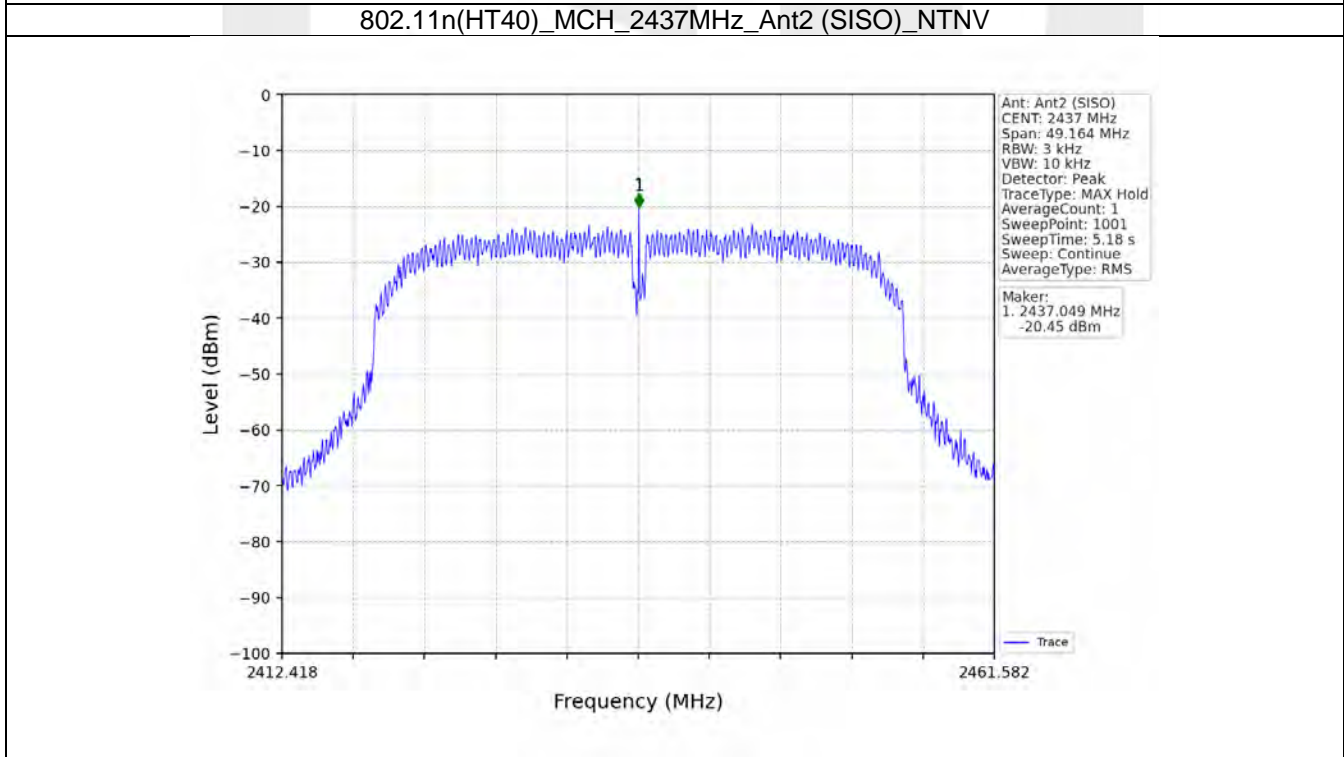
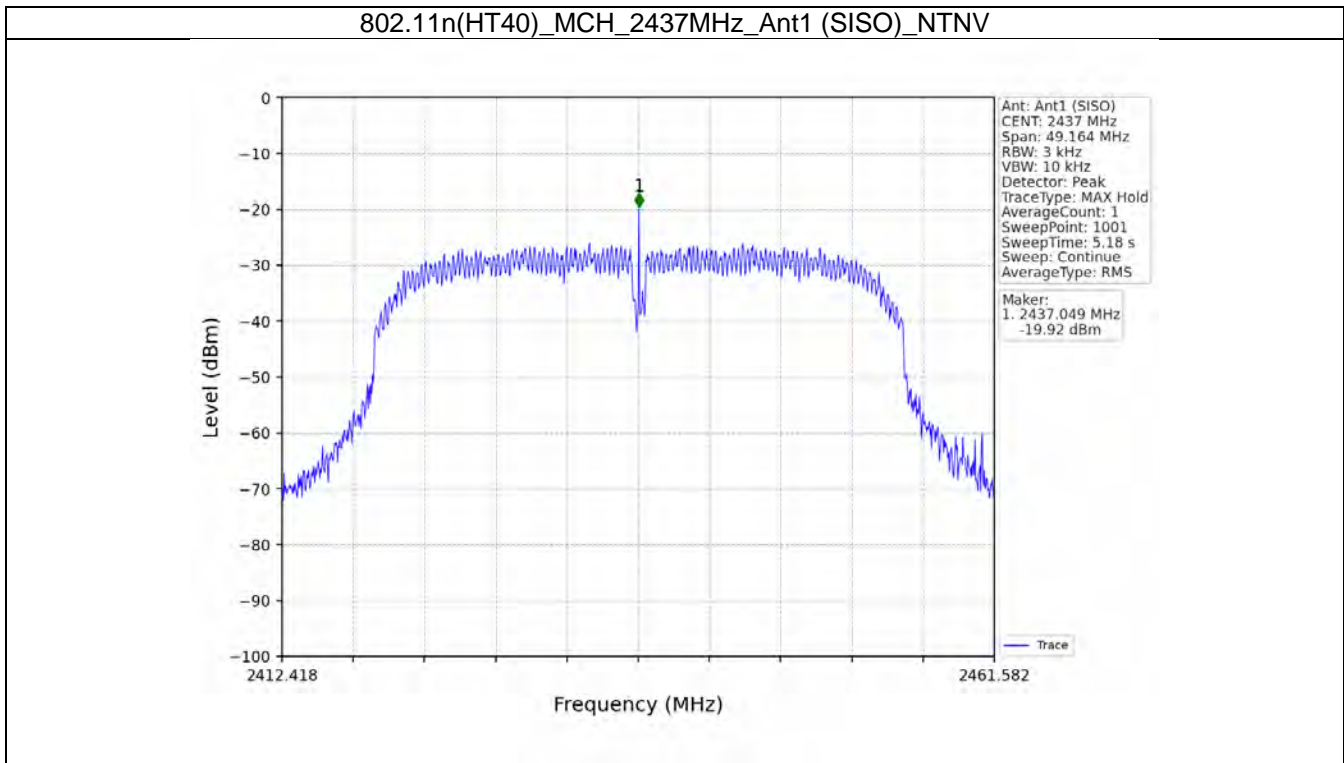


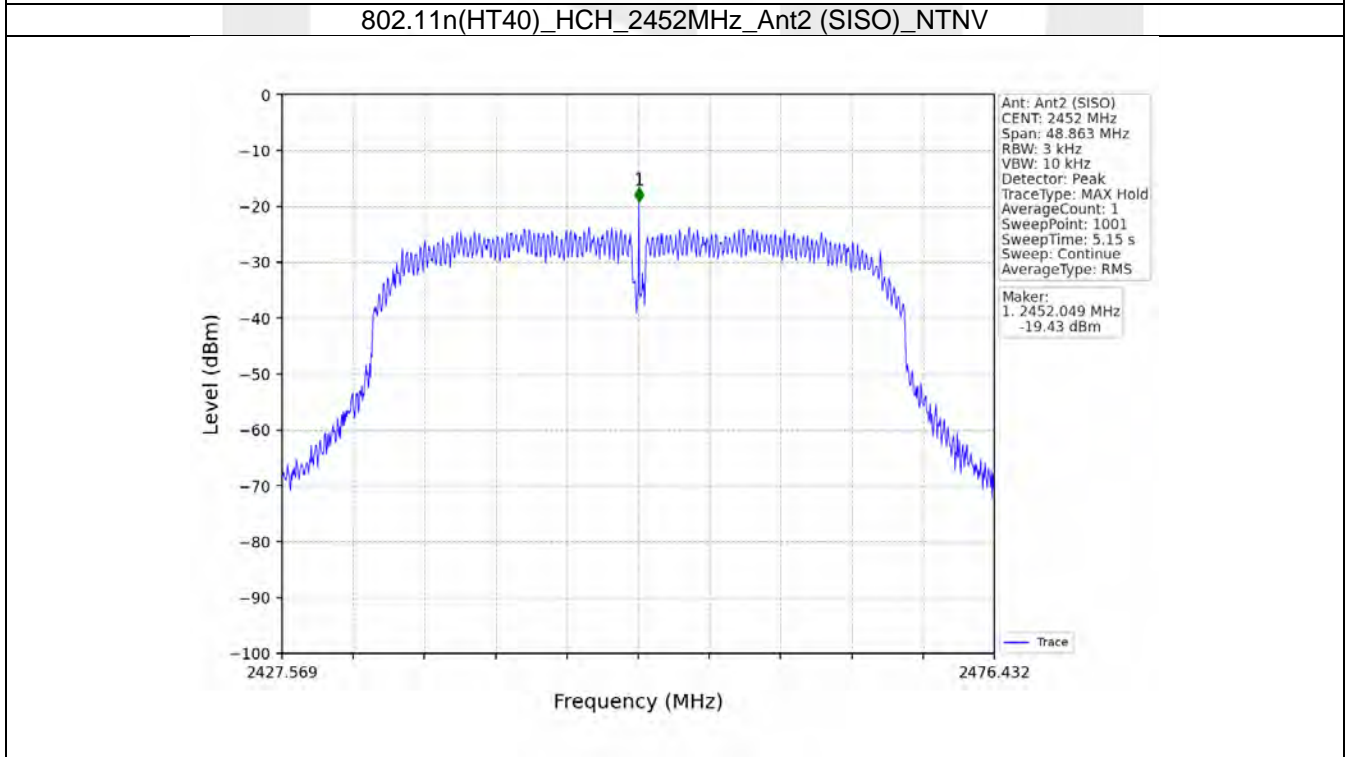
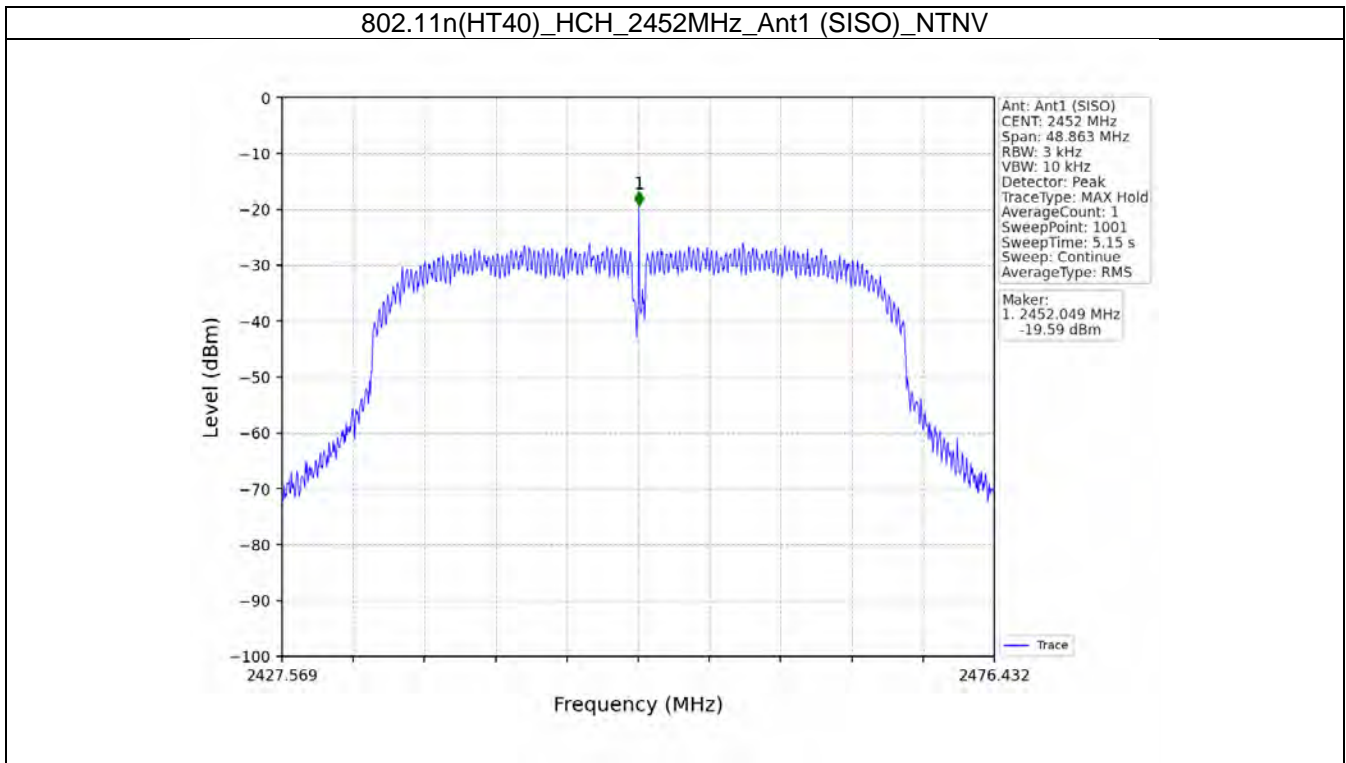












5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	2.16
			2	4.22
		2437	1	2.97
			2	4.11
		2462	1	2.71
			2	4.02
802.11g	SISO	2412	1	-1.70
			2	0.20
		2437	1	-1.51
			2	0.40
		2462	1	-1.23
			2	0.03
802.11n (HT20)	SISO	2412	1	-1.71
			2	0.19
		2437	1	-1.12
			2	0.47
		2462	1	-1.18
			2	-0.15
802.11n (HT40)	SISO	2422	1	-11.39
			2	-9.21
		2437	1	-11.83
			2	-9.40
		2452	1	-12.17
			2	-9.33

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020 the channel contains the maximum PSD level was used to establish the reference level.

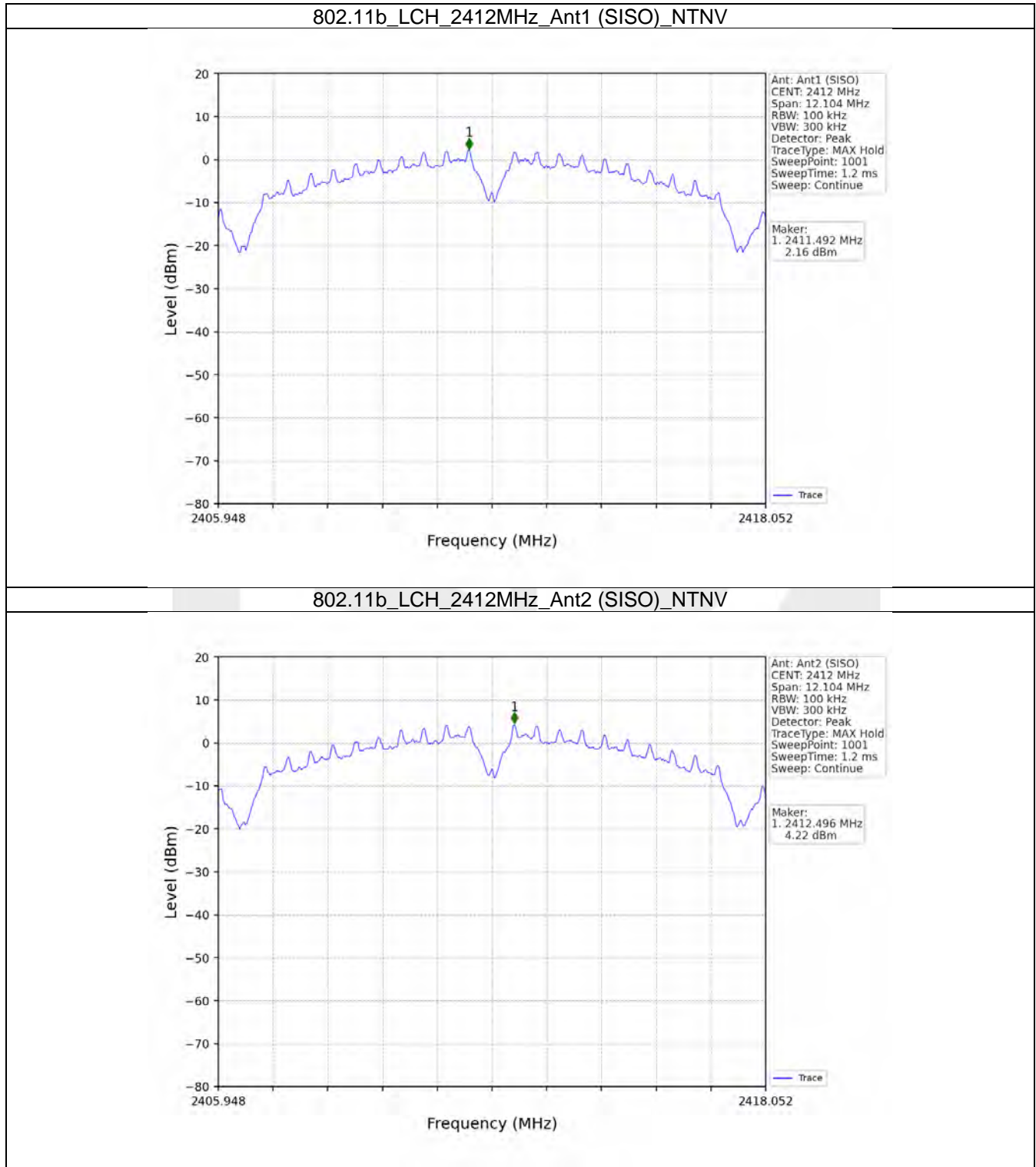
5.1.2 CSE

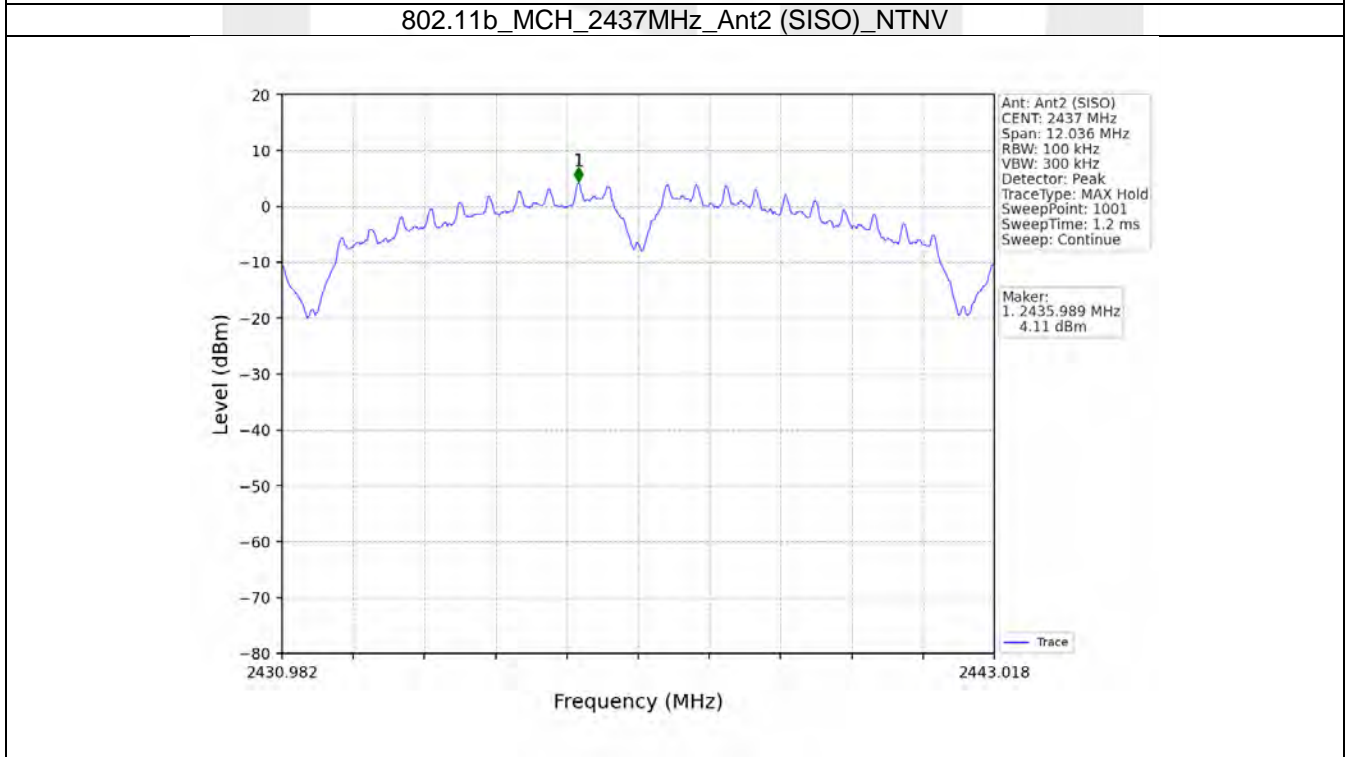
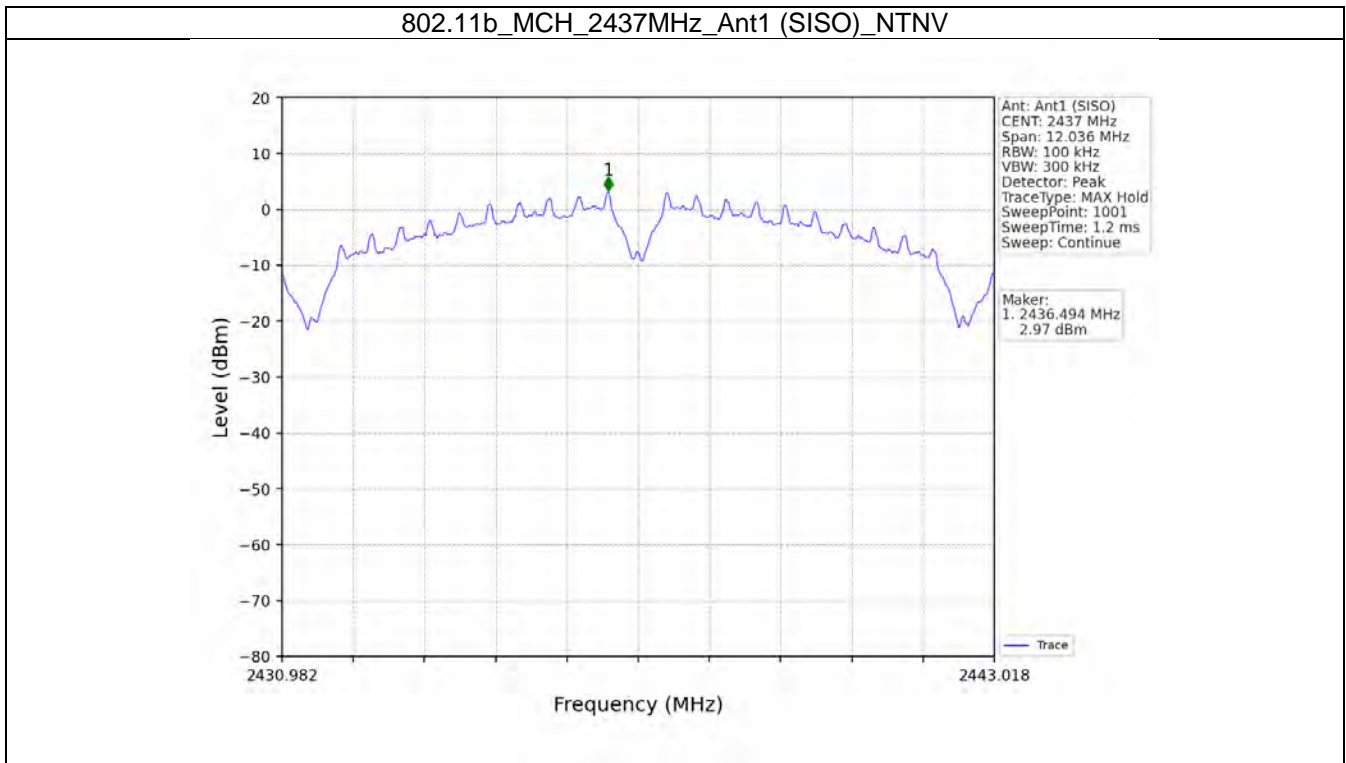
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	2.16	-17.84	Pass
			2	4.22	-25.78	Pass
		2437	1	2.97	-17.03	Pass
			2	4.11	-25.89	Pass
		2462	1	2.71	-17.29	Pass
			2	4.02	-25.98	Pass
802.11g	SISO	2412	1	-1.70	-21.70	Pass
			2	0.20	-29.80	Pass
		2437	1	-1.51	-21.51	Pass
			2	0.40	-29.60	Pass
		2462	1	-1.23	-21.23	Pass
			2	0.03	-29.97	Pass
802.11n (HT20)	SISO	2412	1	-1.71	-21.71	Pass
			2	0.19	-29.81	Pass
		2437	1	-1.12	-21.12	Pass
			2	0.47	-29.53	Pass
		2462	1	-1.18	-21.18	Pass
			2	-0.15	-30.15	Pass
802.11n (HT40)	SISO	2422	1	-11.39	-31.39	Pass
			2	-9.21	-29.21	Pass
		2437	1	-11.83	-31.83	Pass
			2	-9.40	-29.40	Pass
		2452	1	-12.17	-32.17	Pass
			2	-9.33	-29.33	Pass

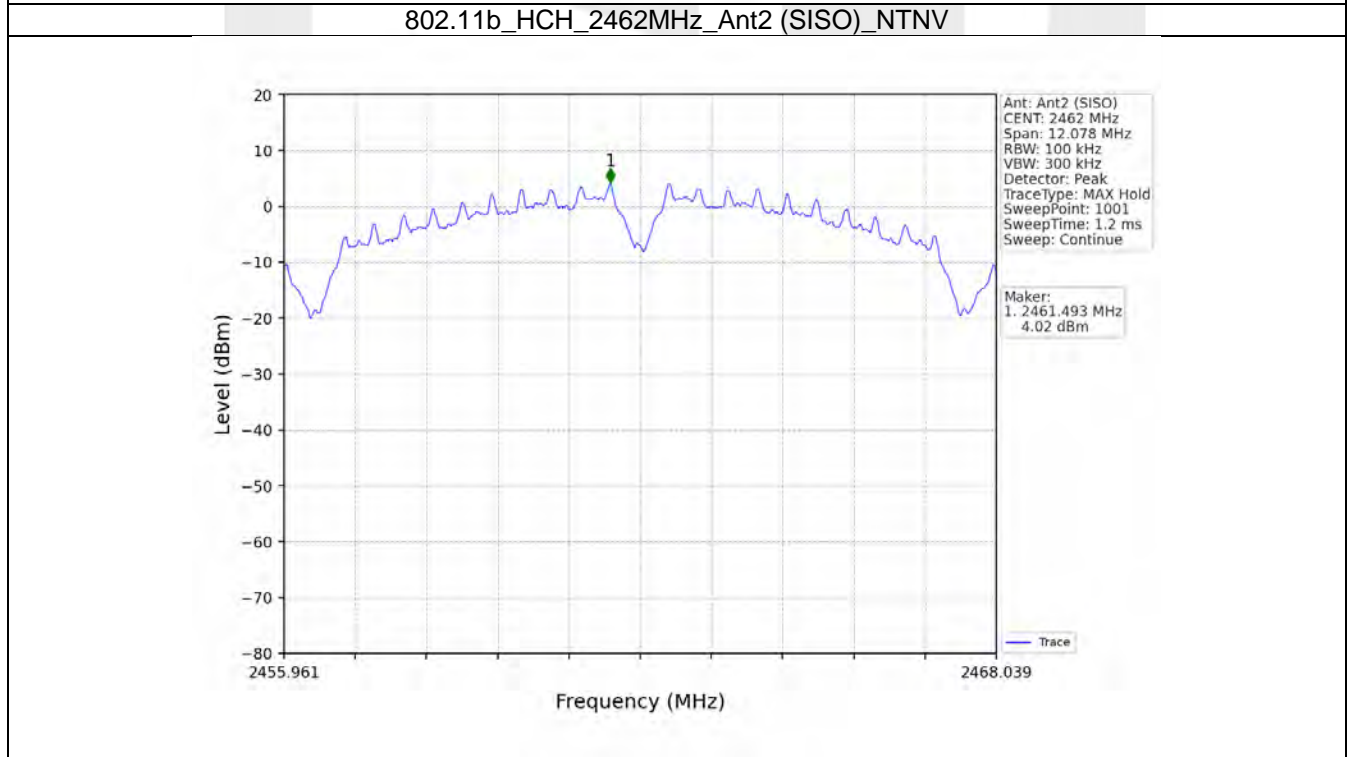
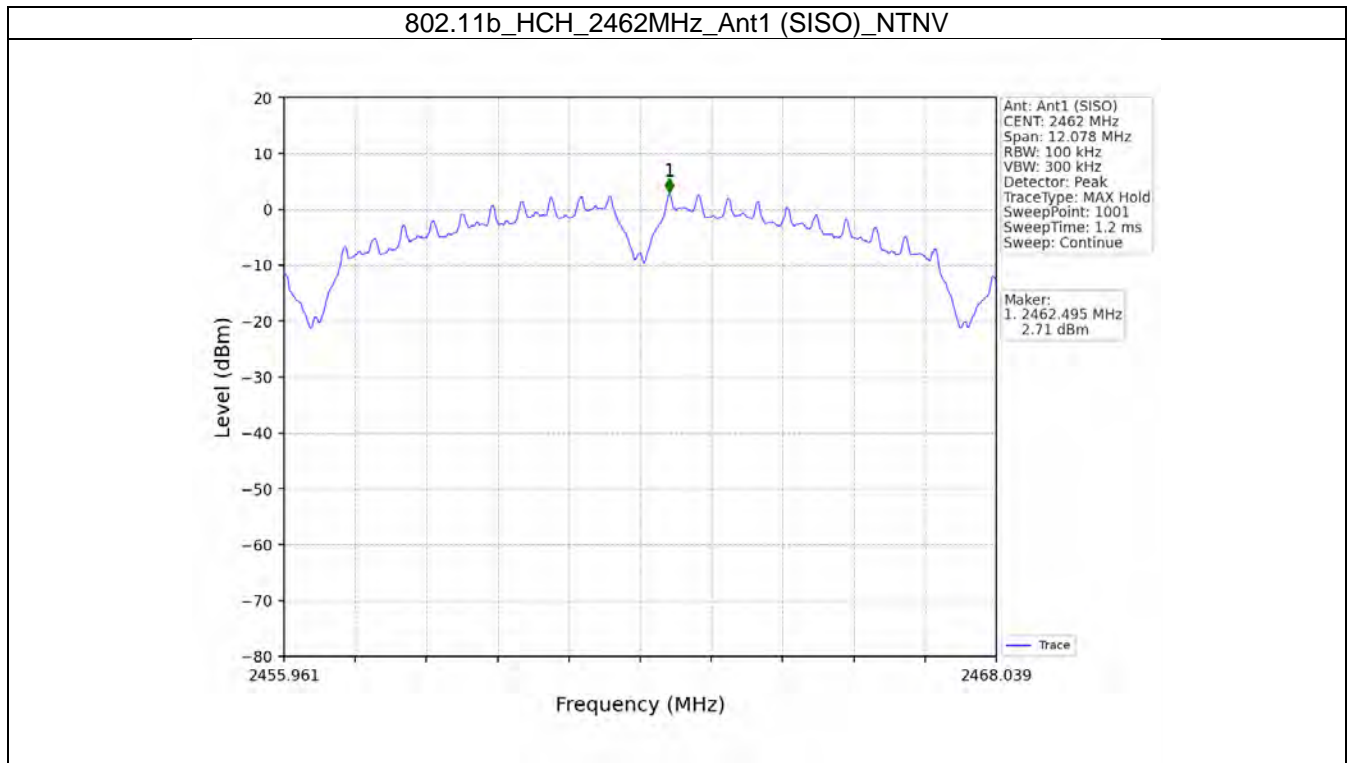
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020 the channel contains the maximum PSD level was used to establish the reference level.

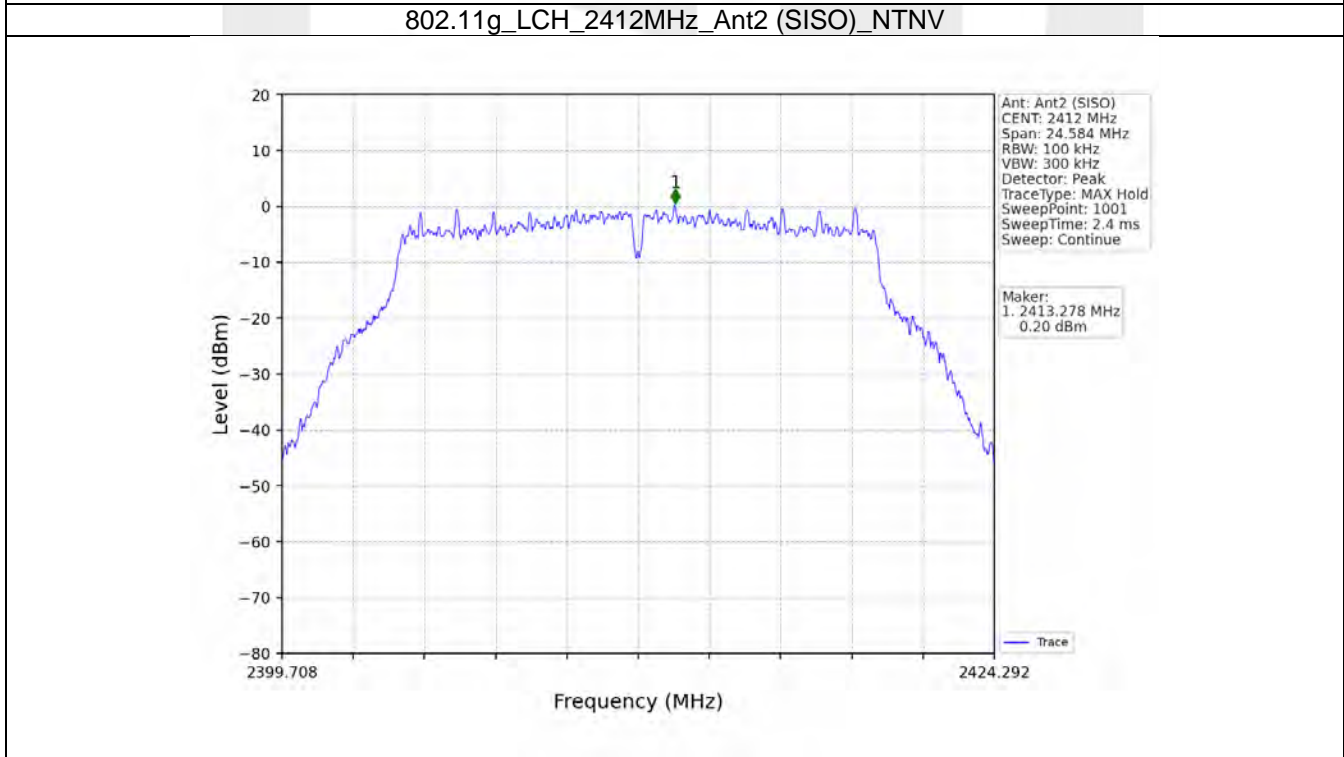
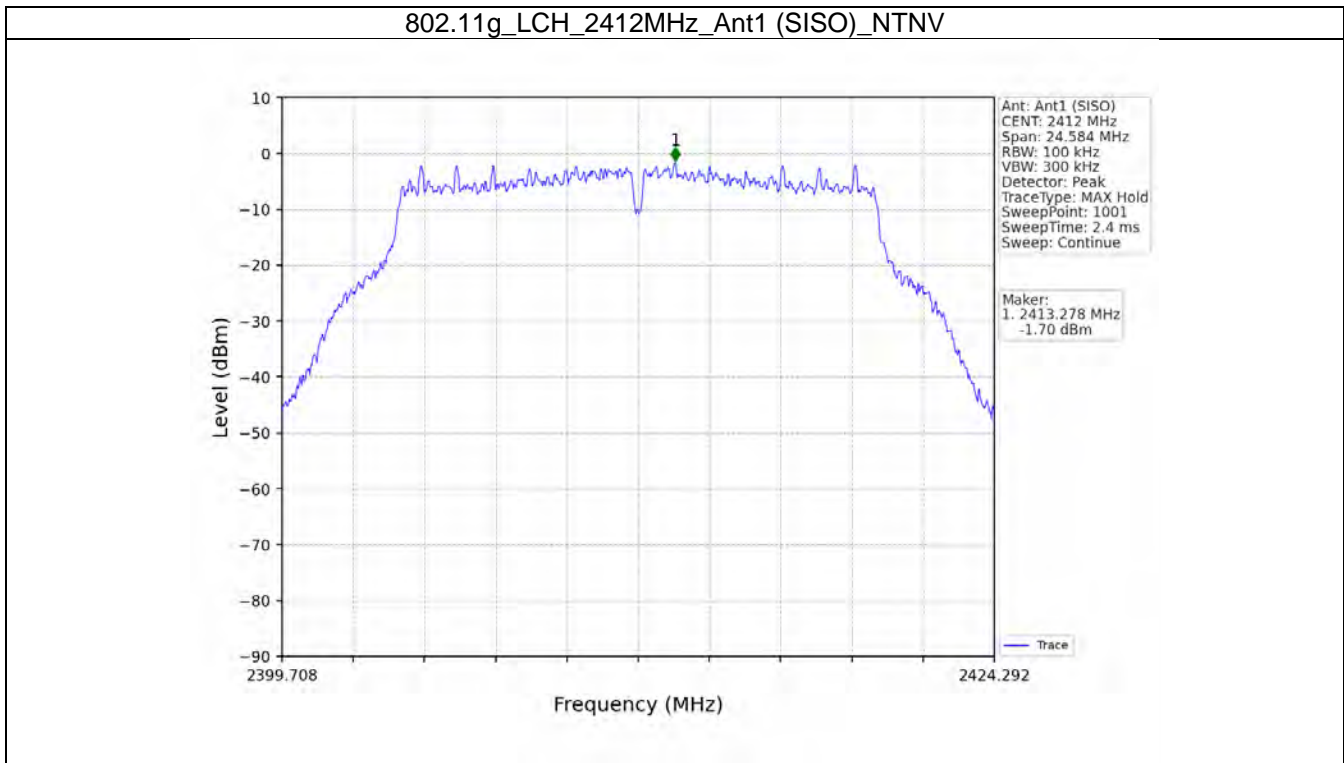
5.2 Test Graph

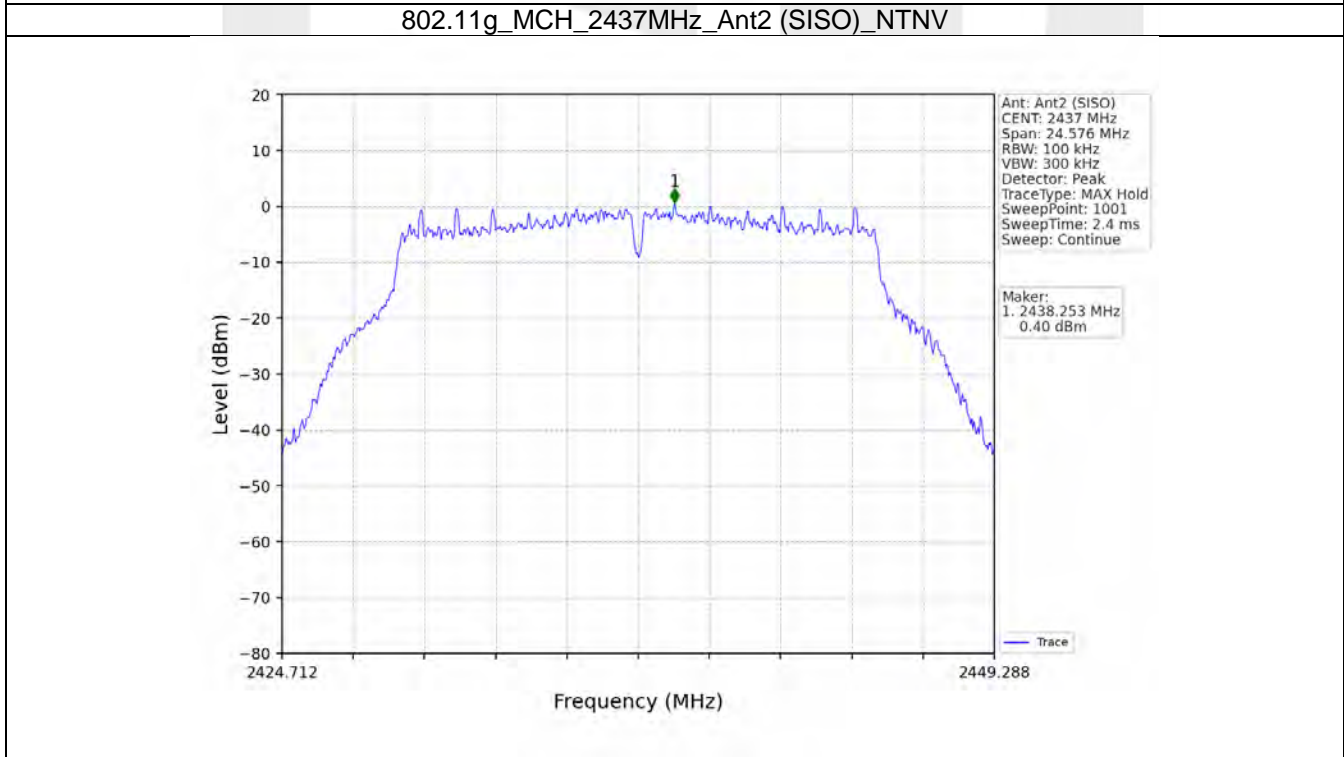
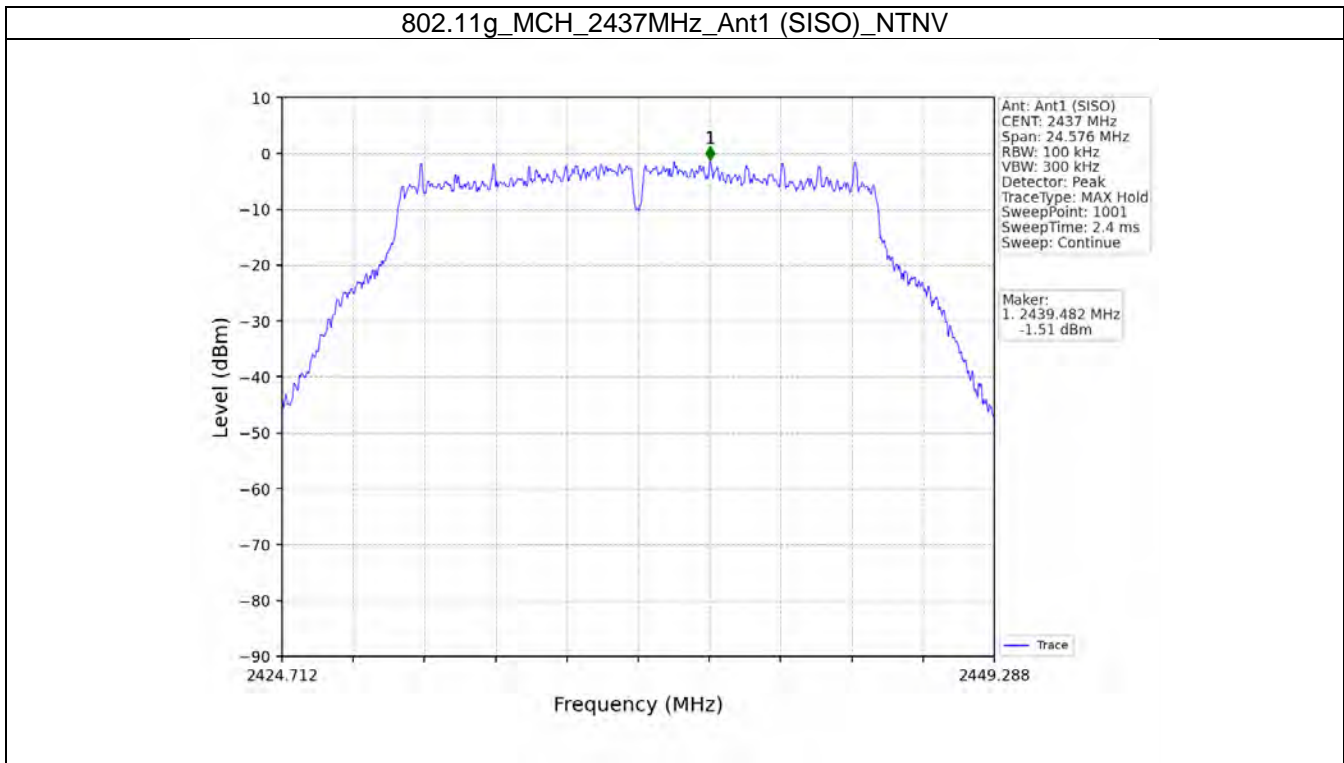
5.2.1 Ref

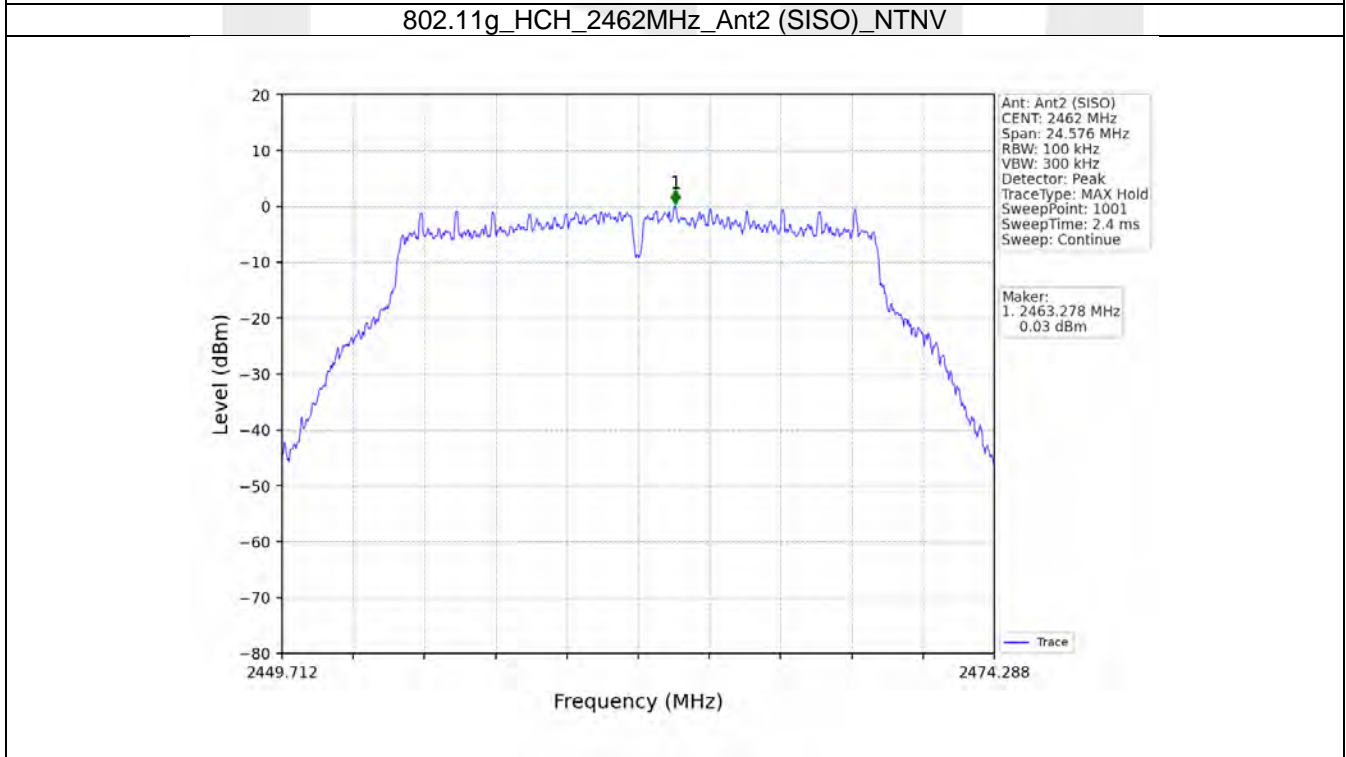
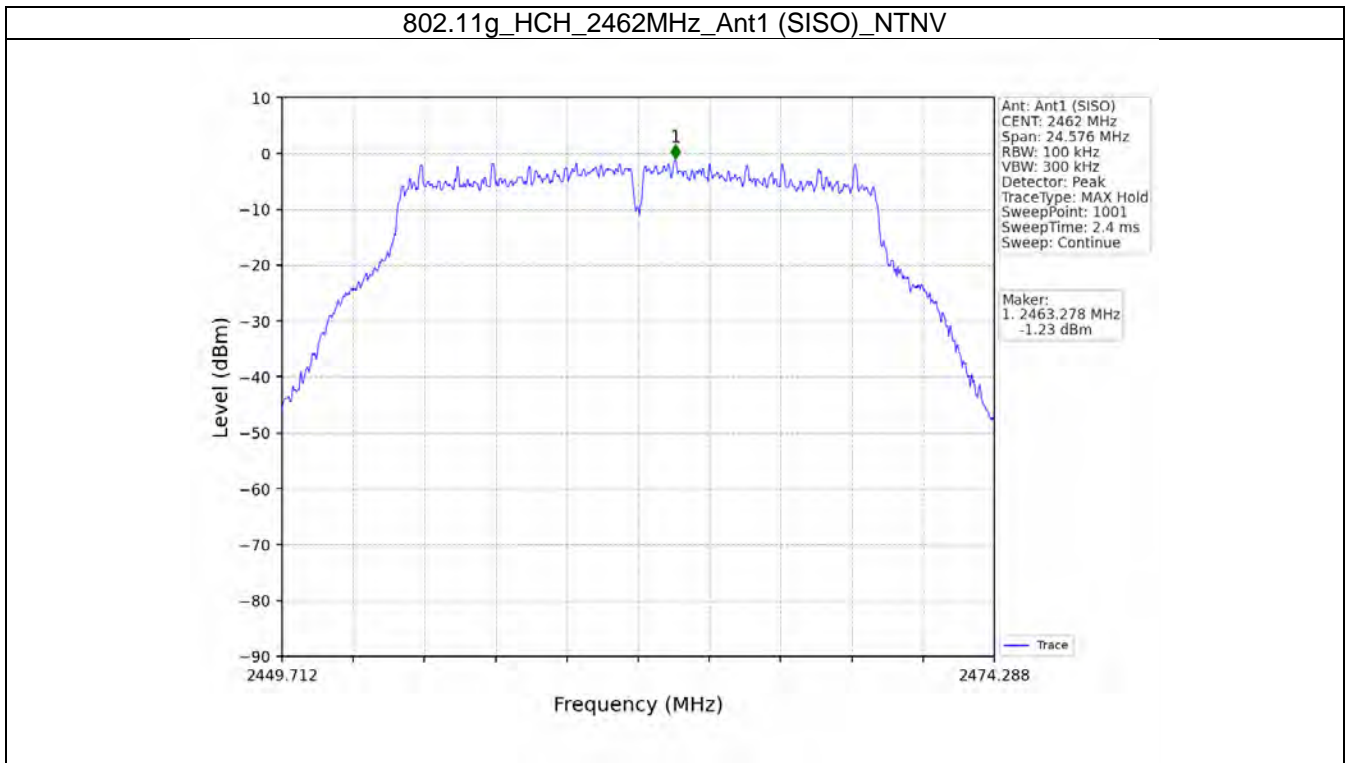


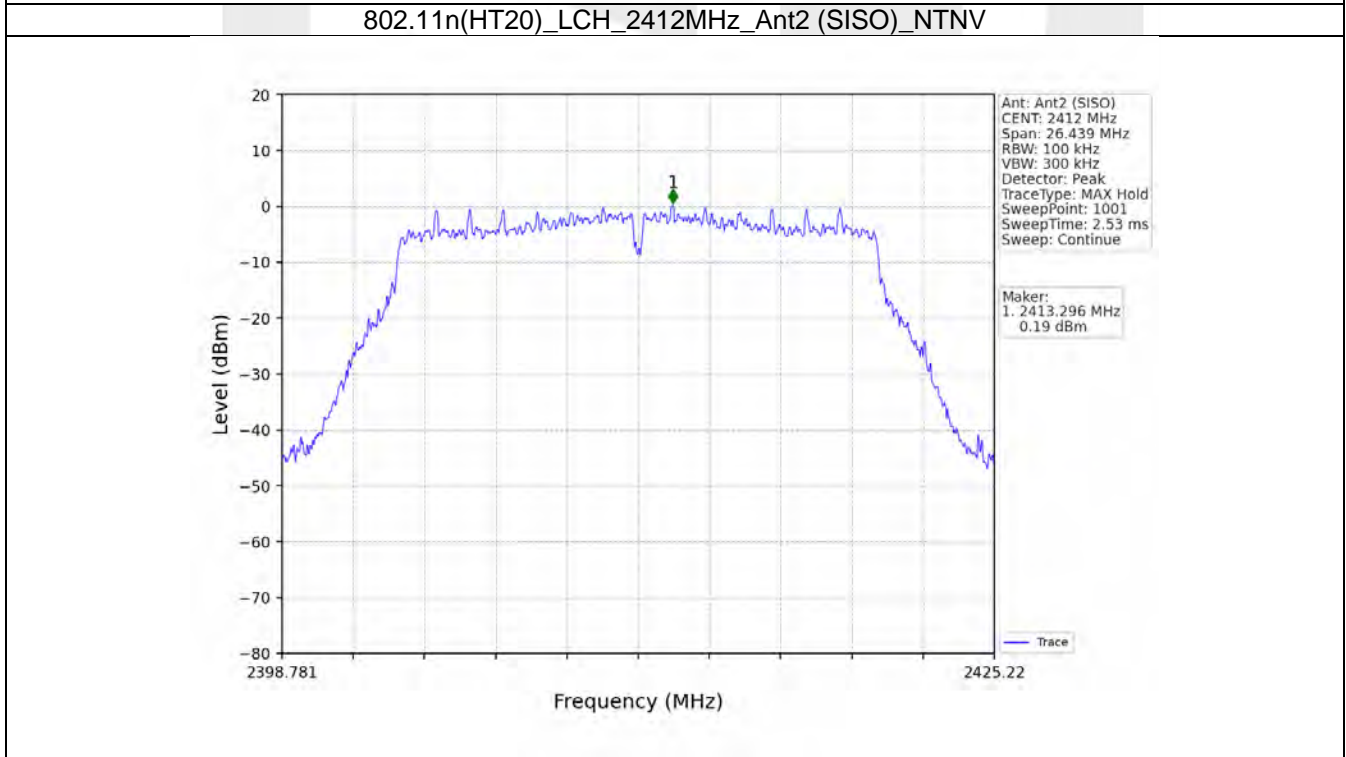
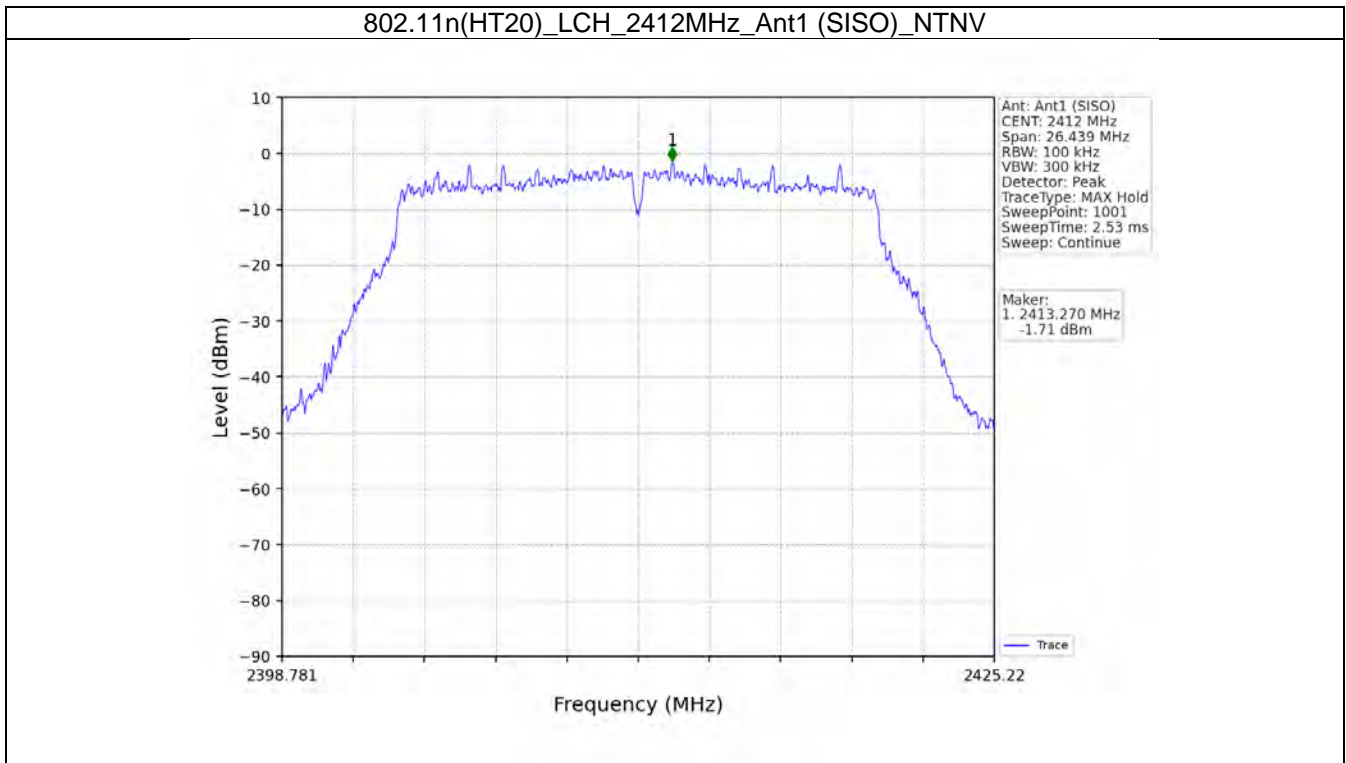


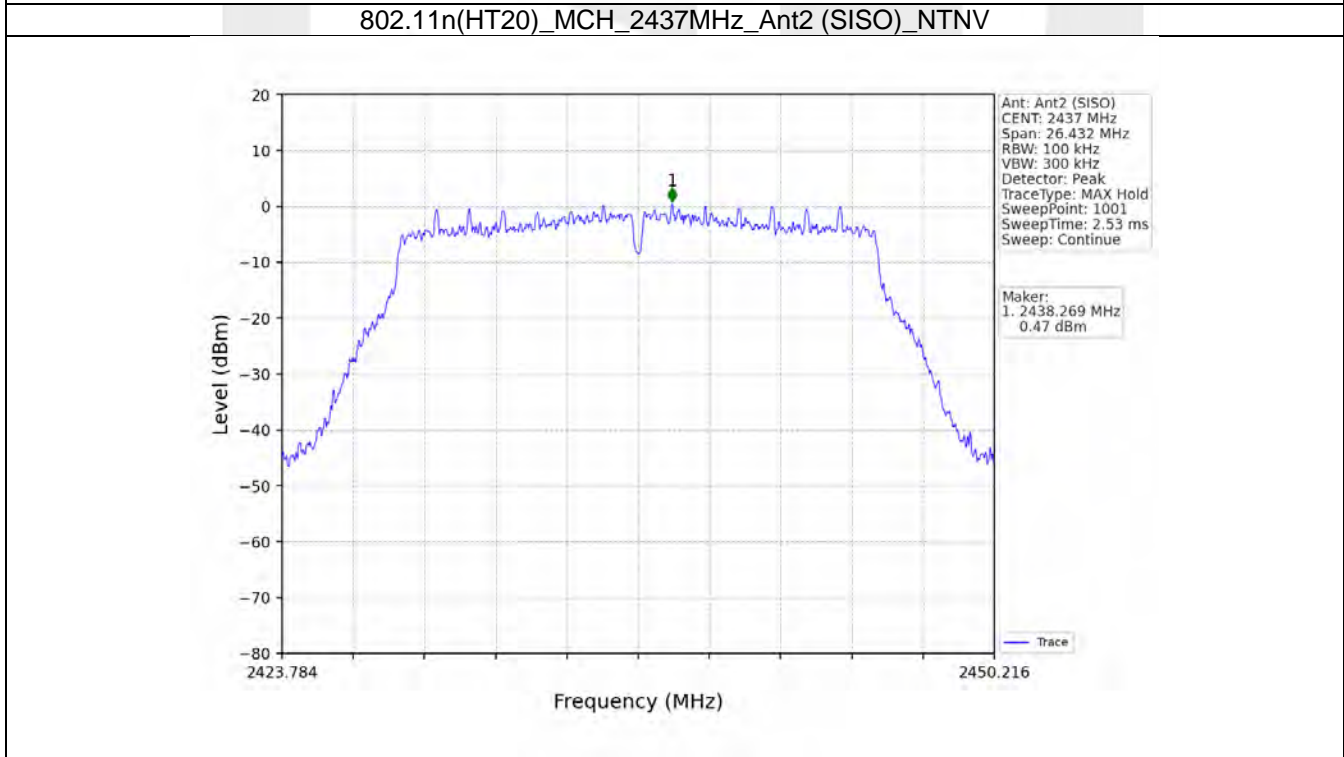
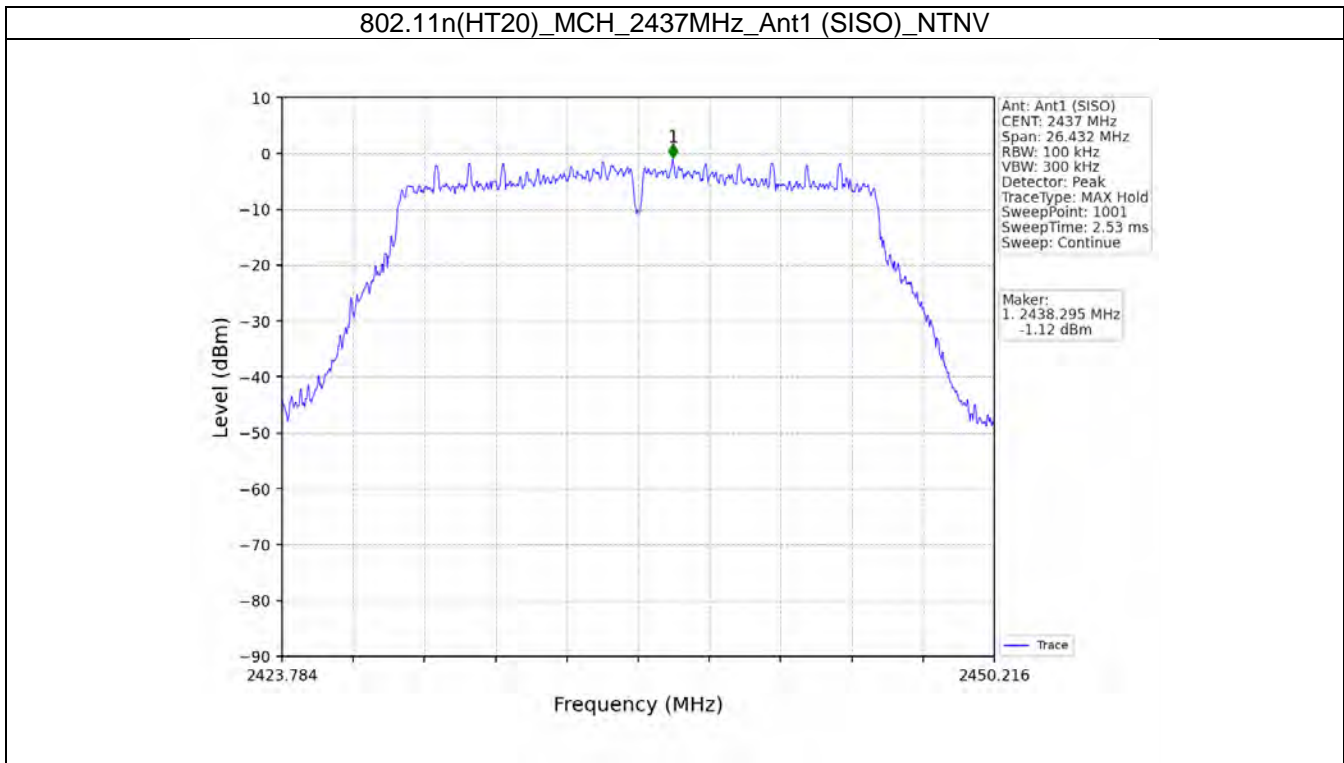


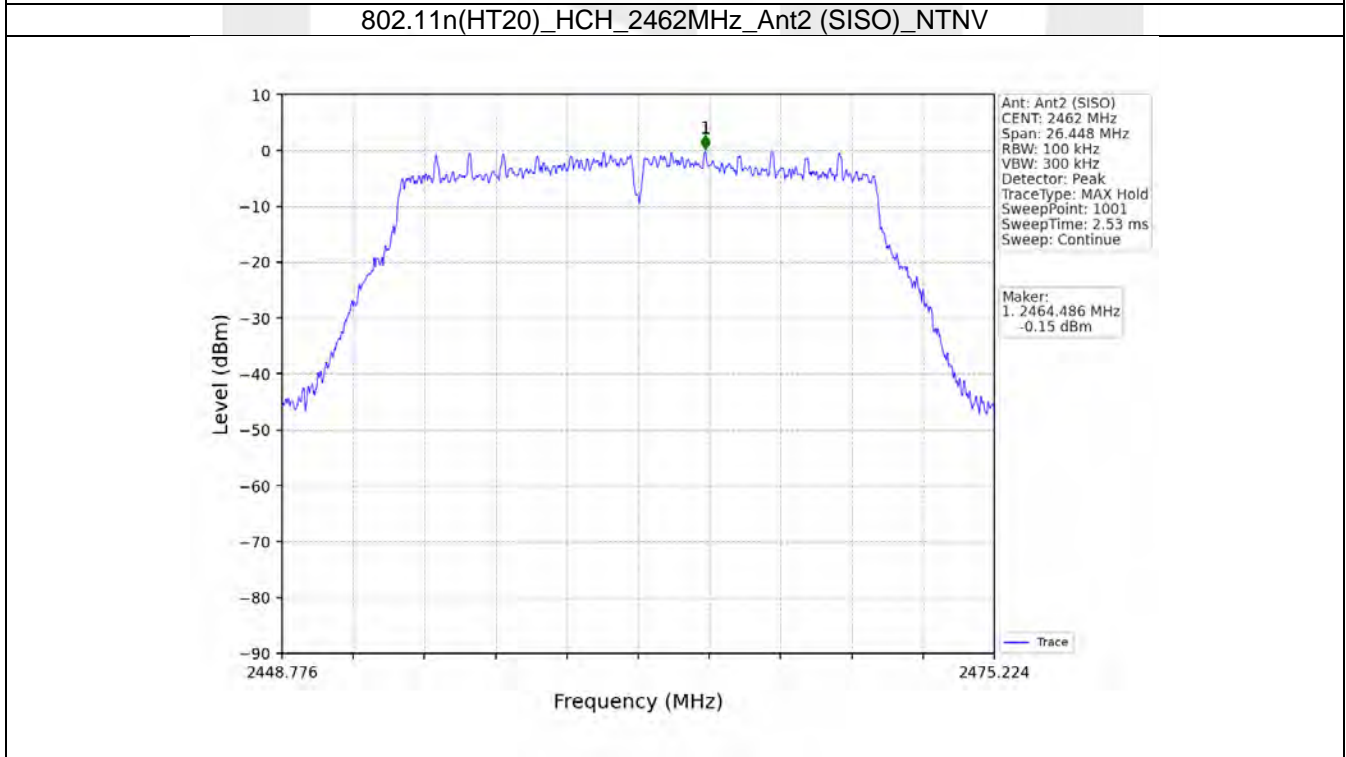
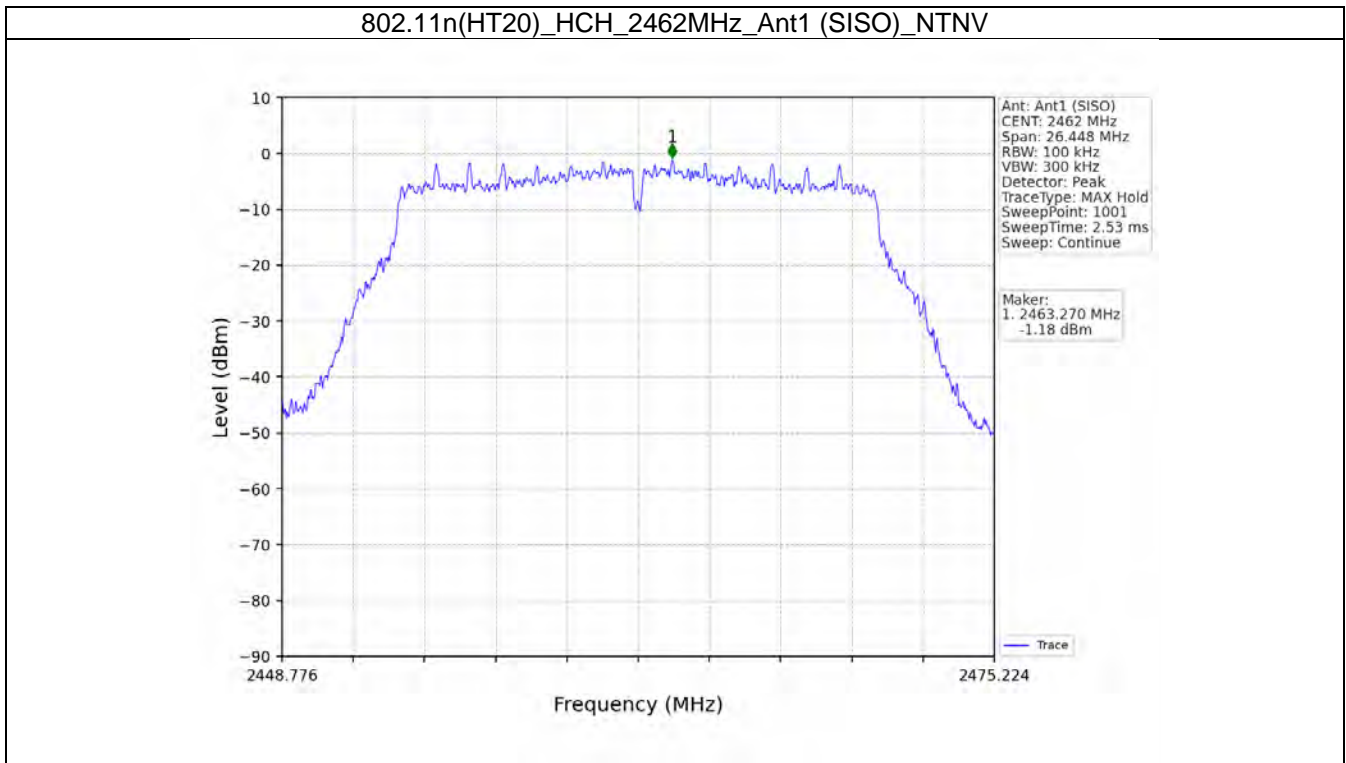


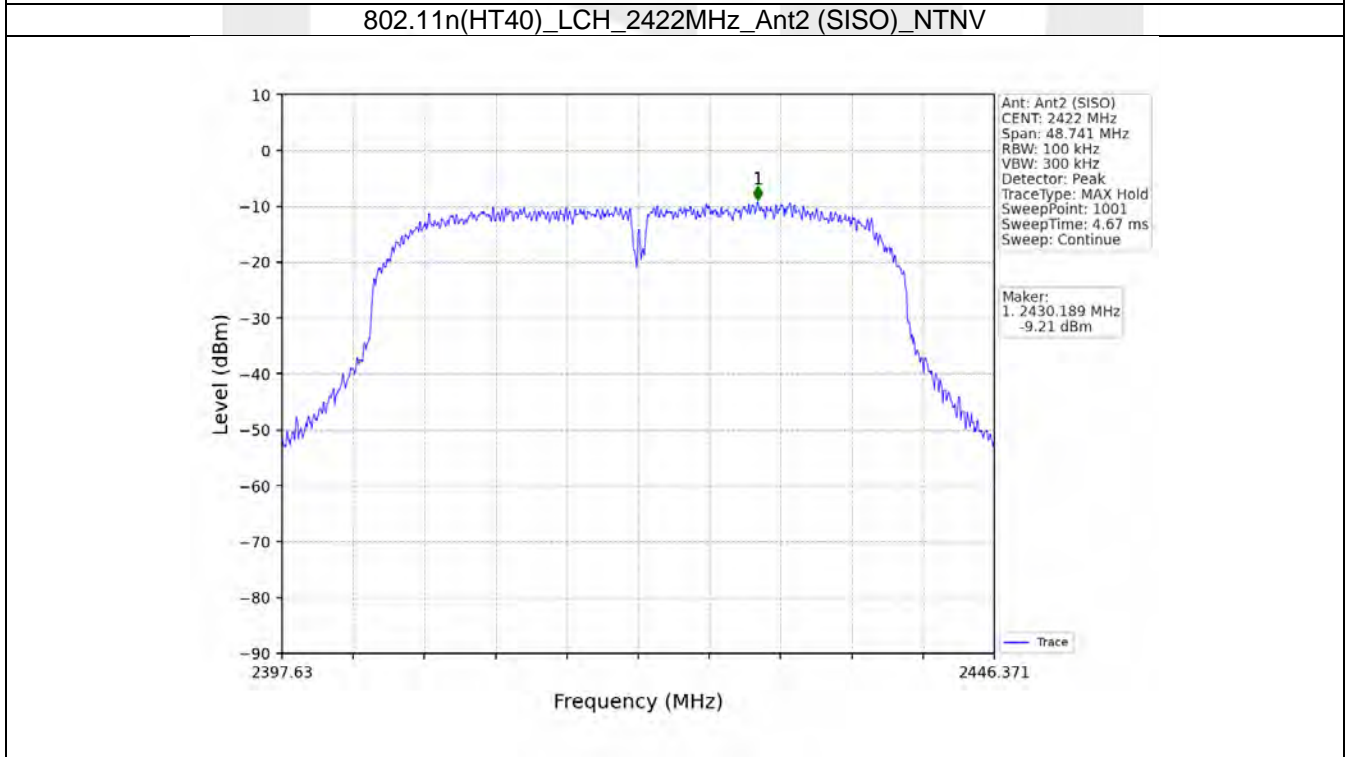
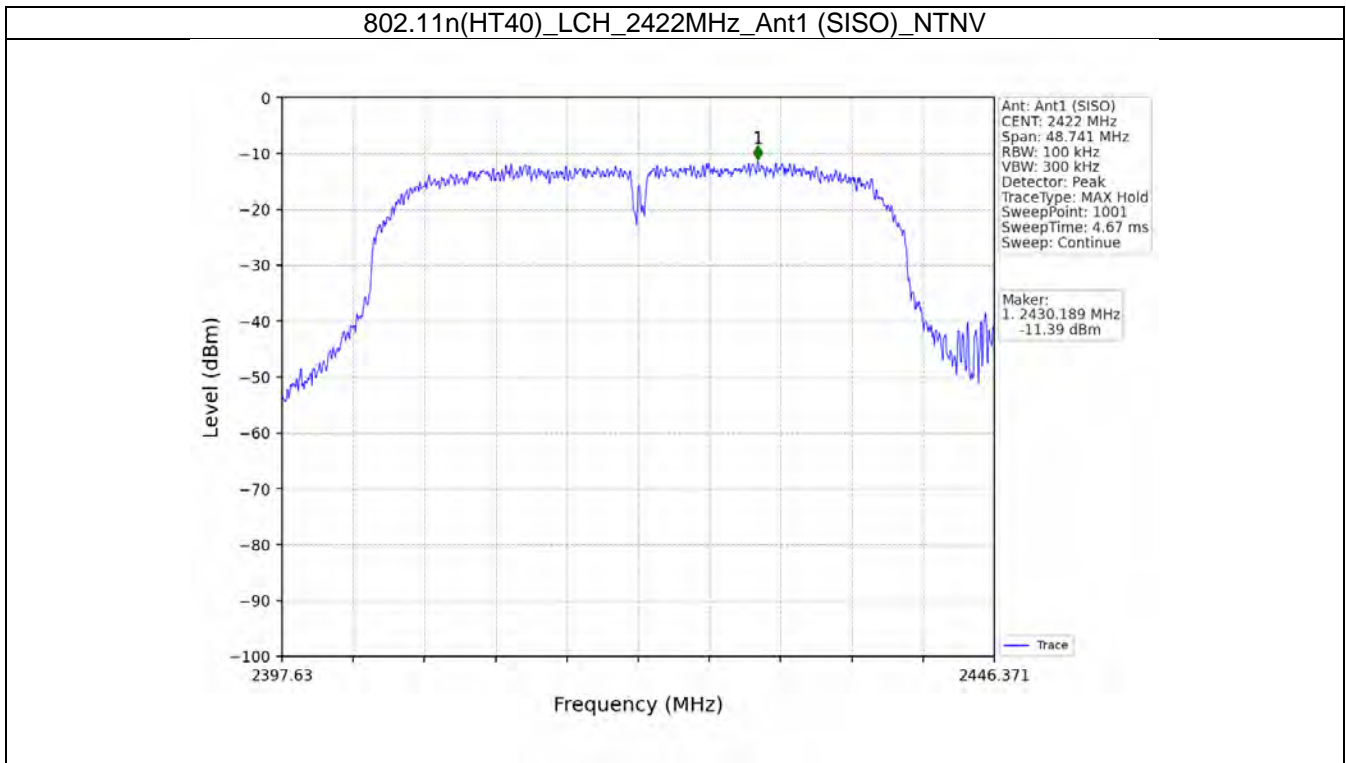


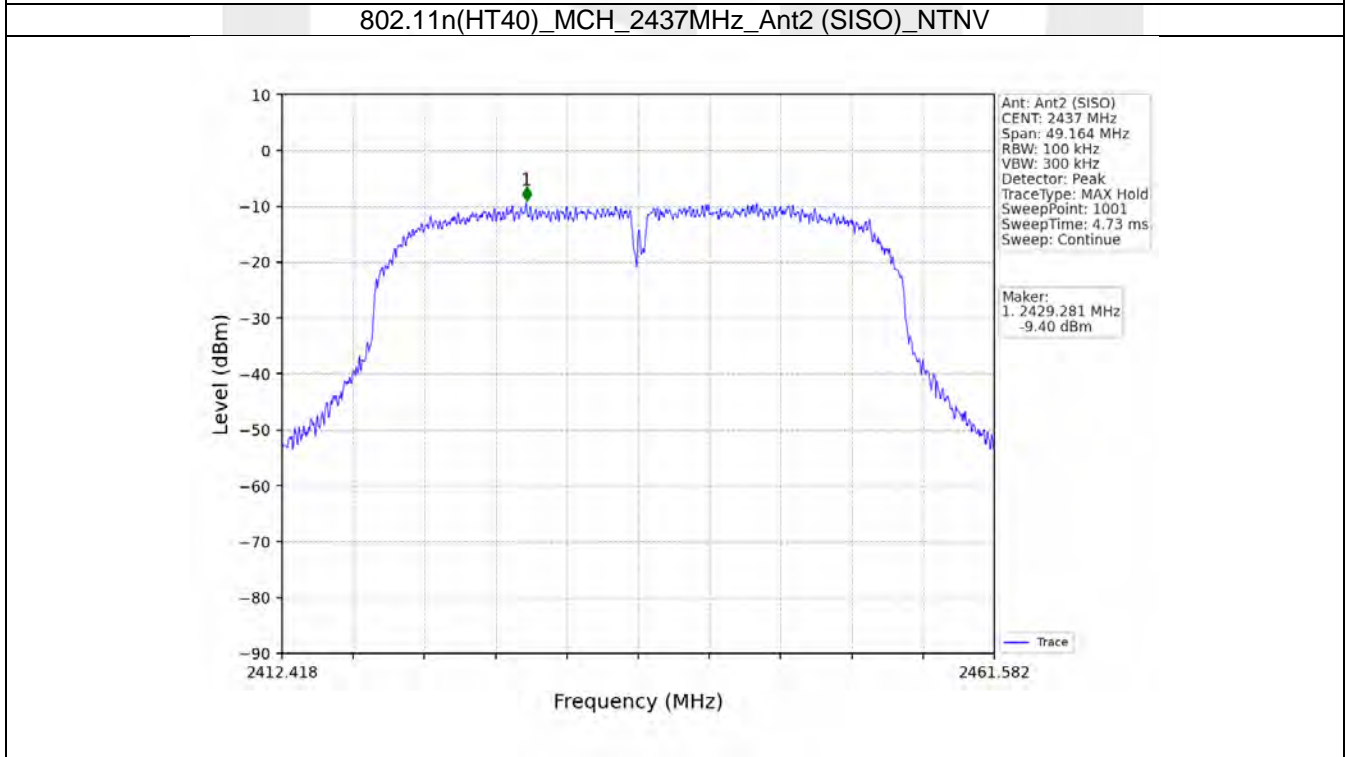
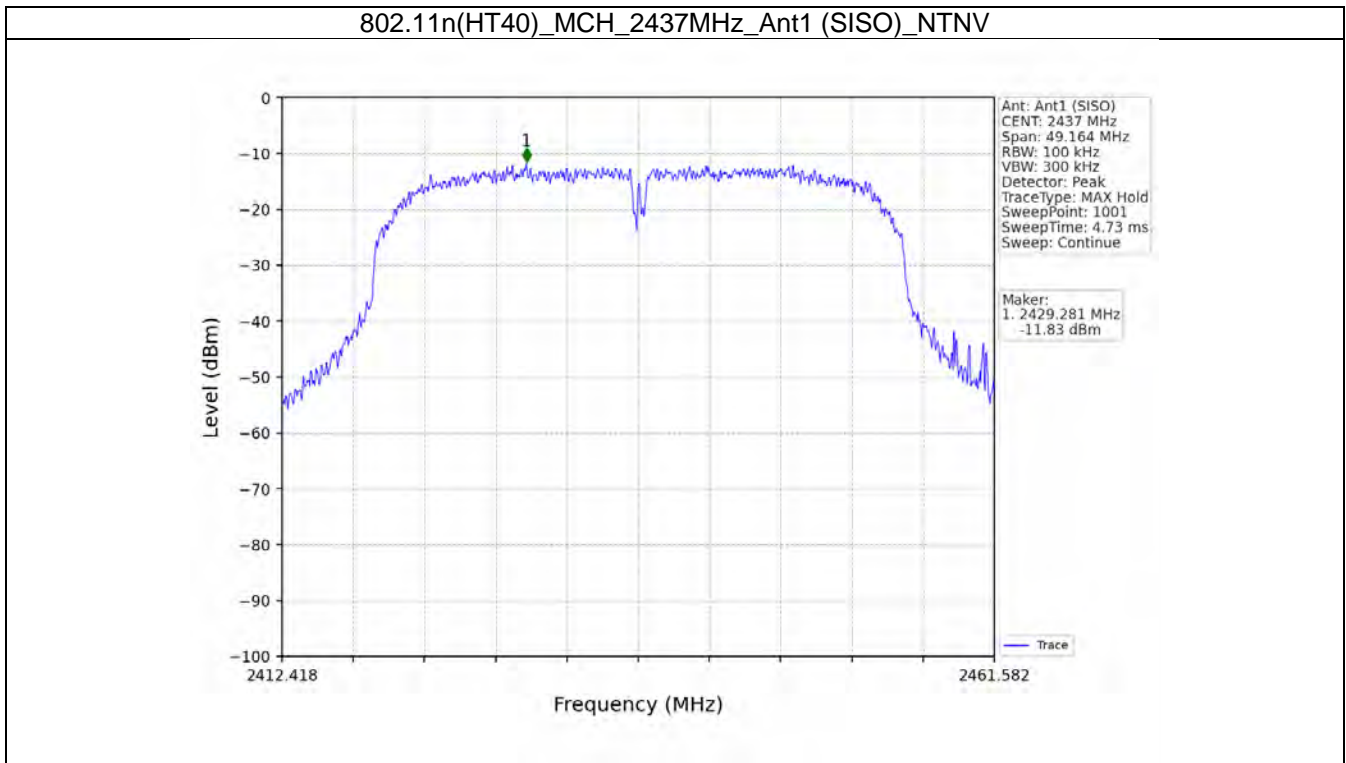


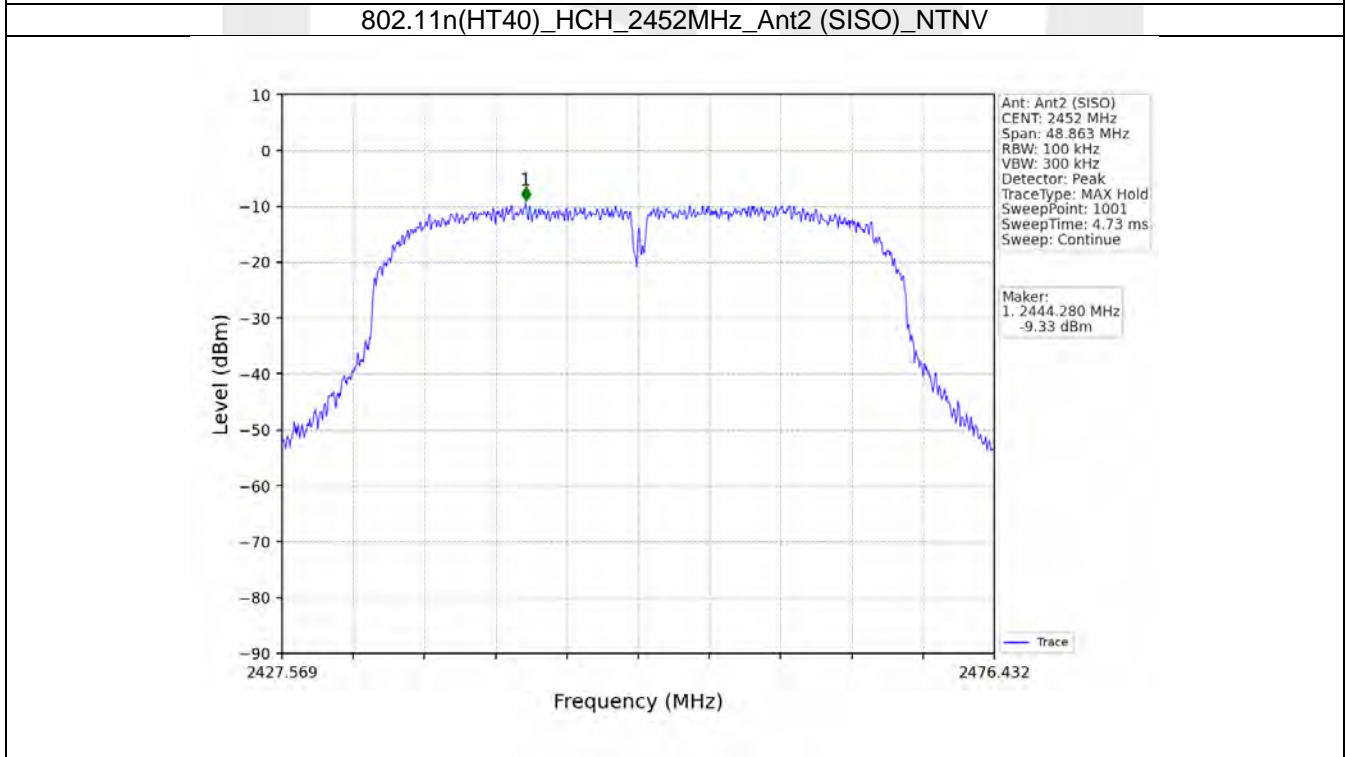
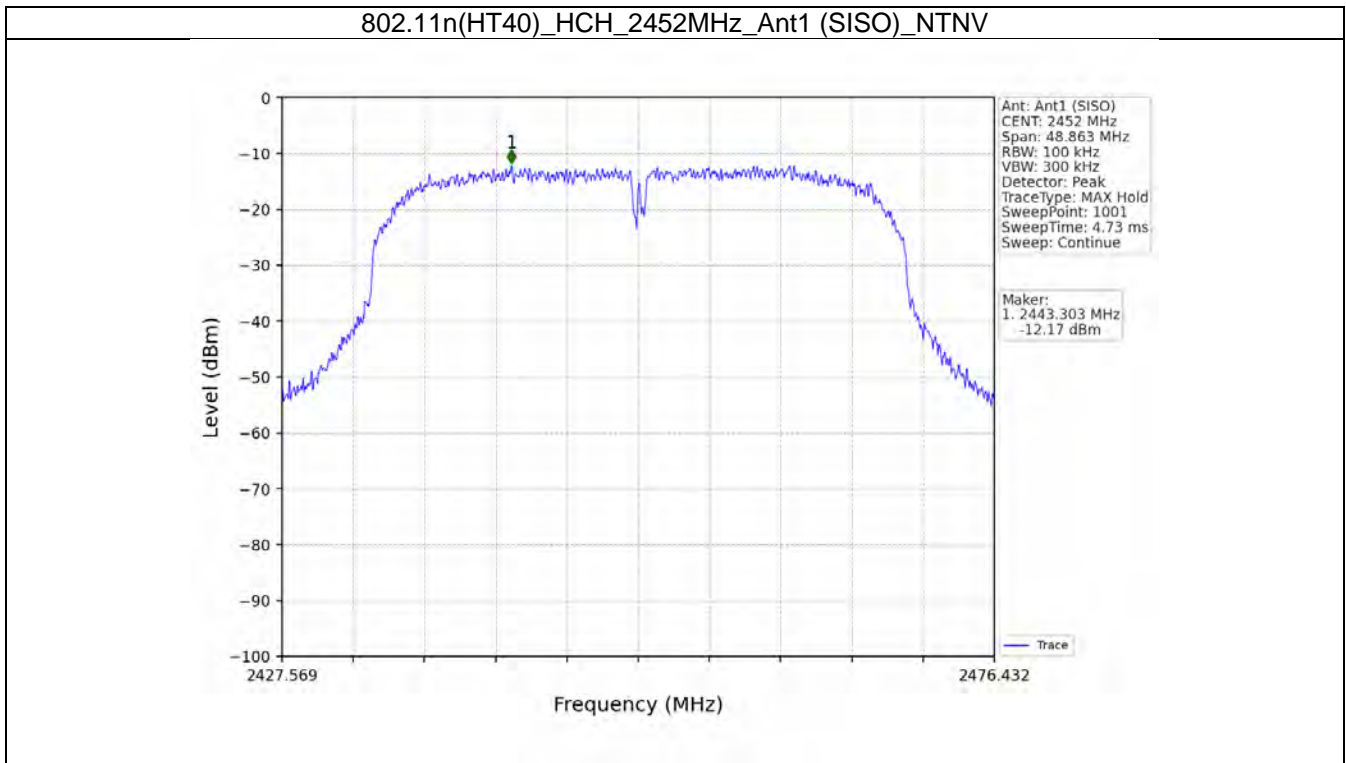




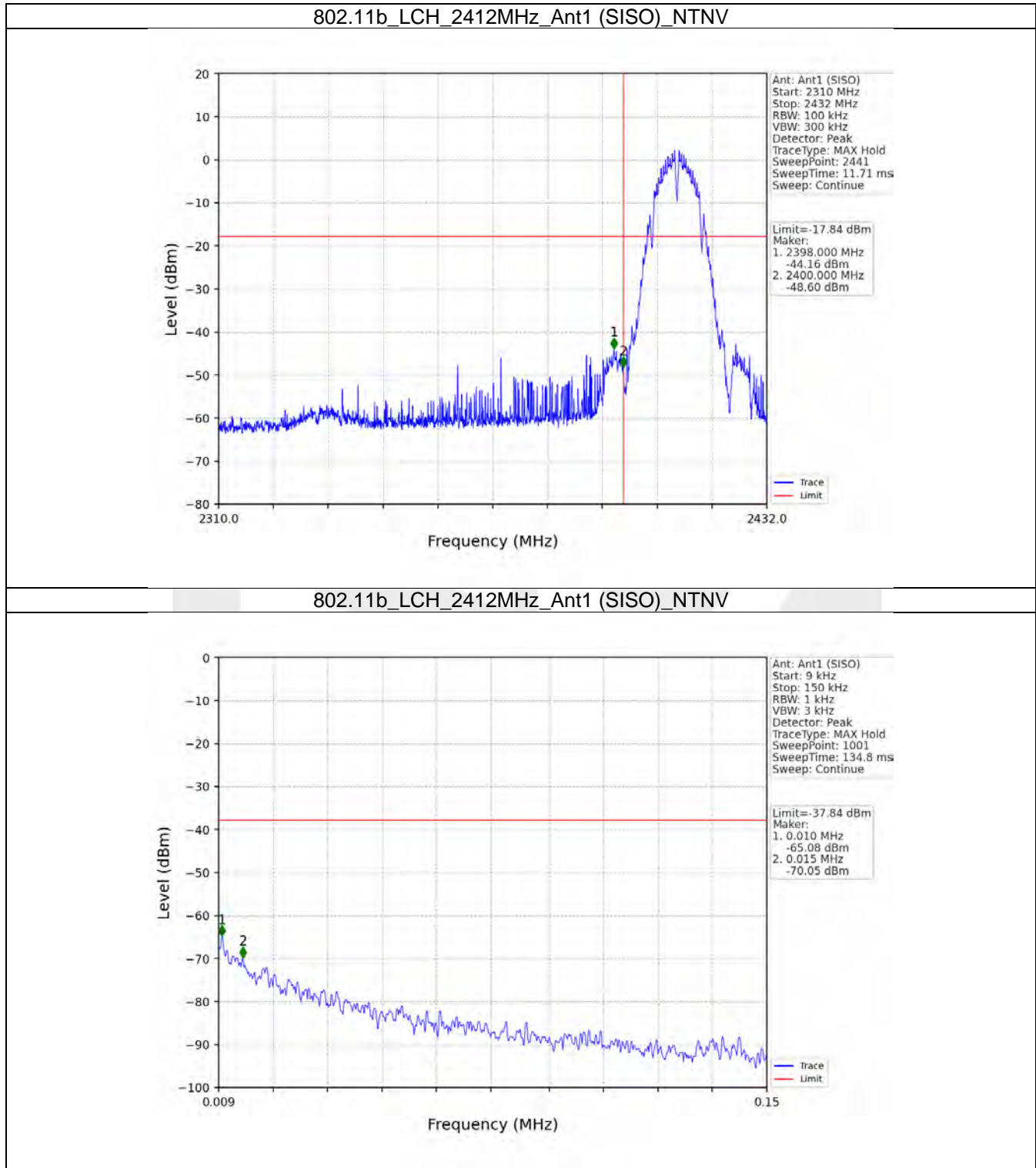


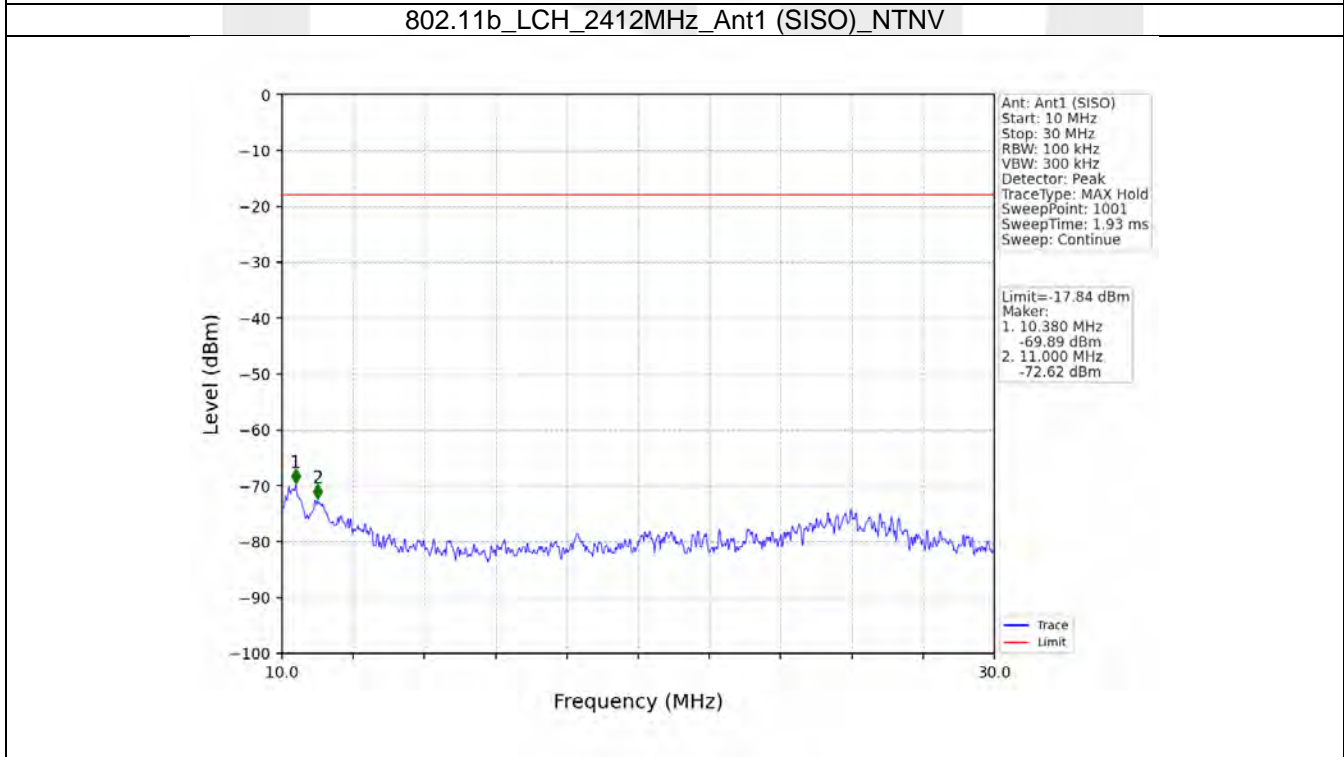
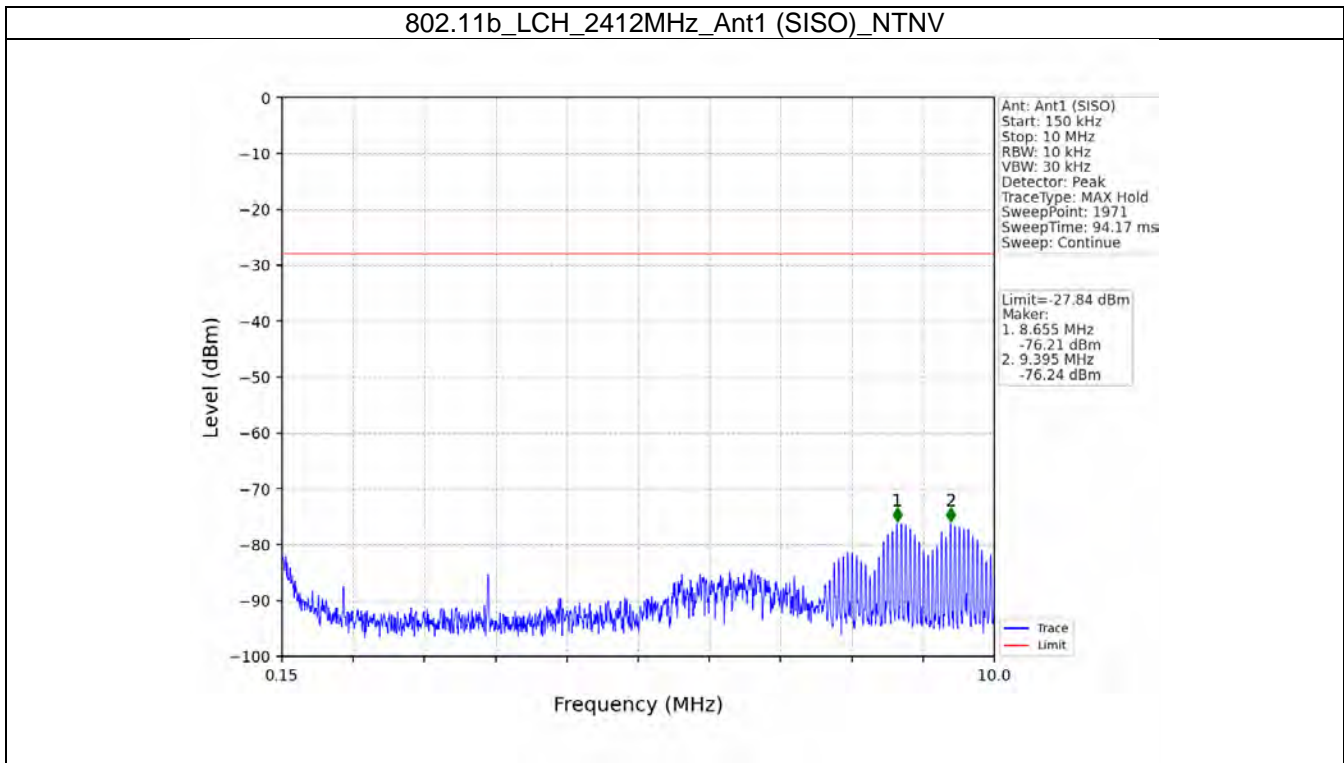


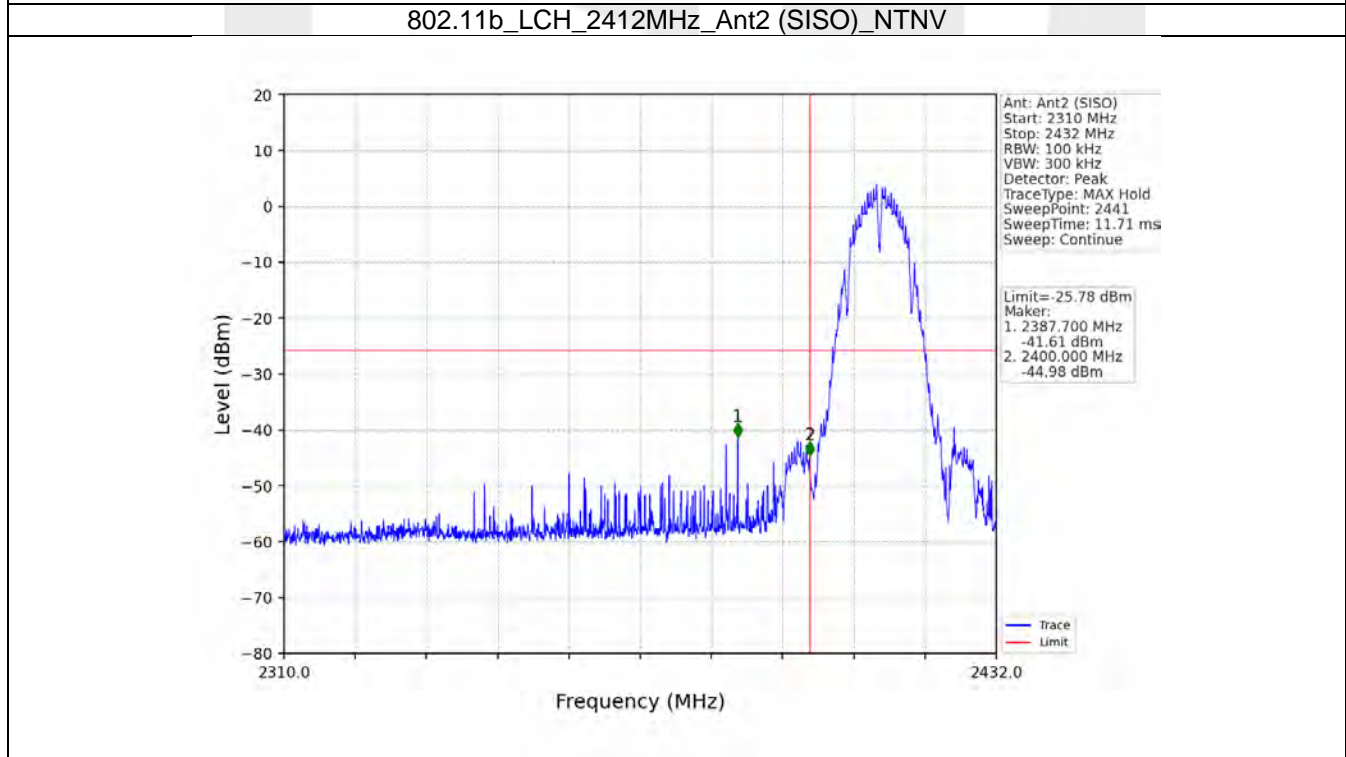
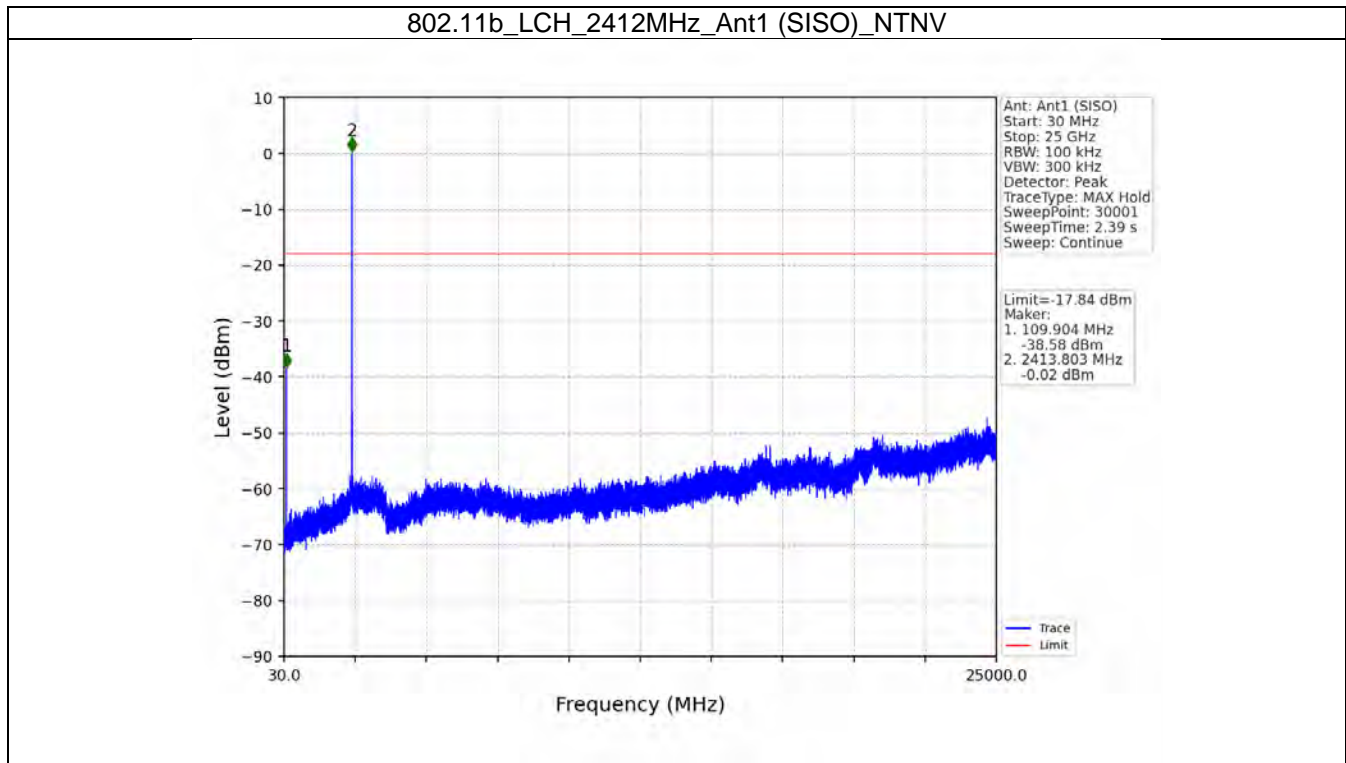


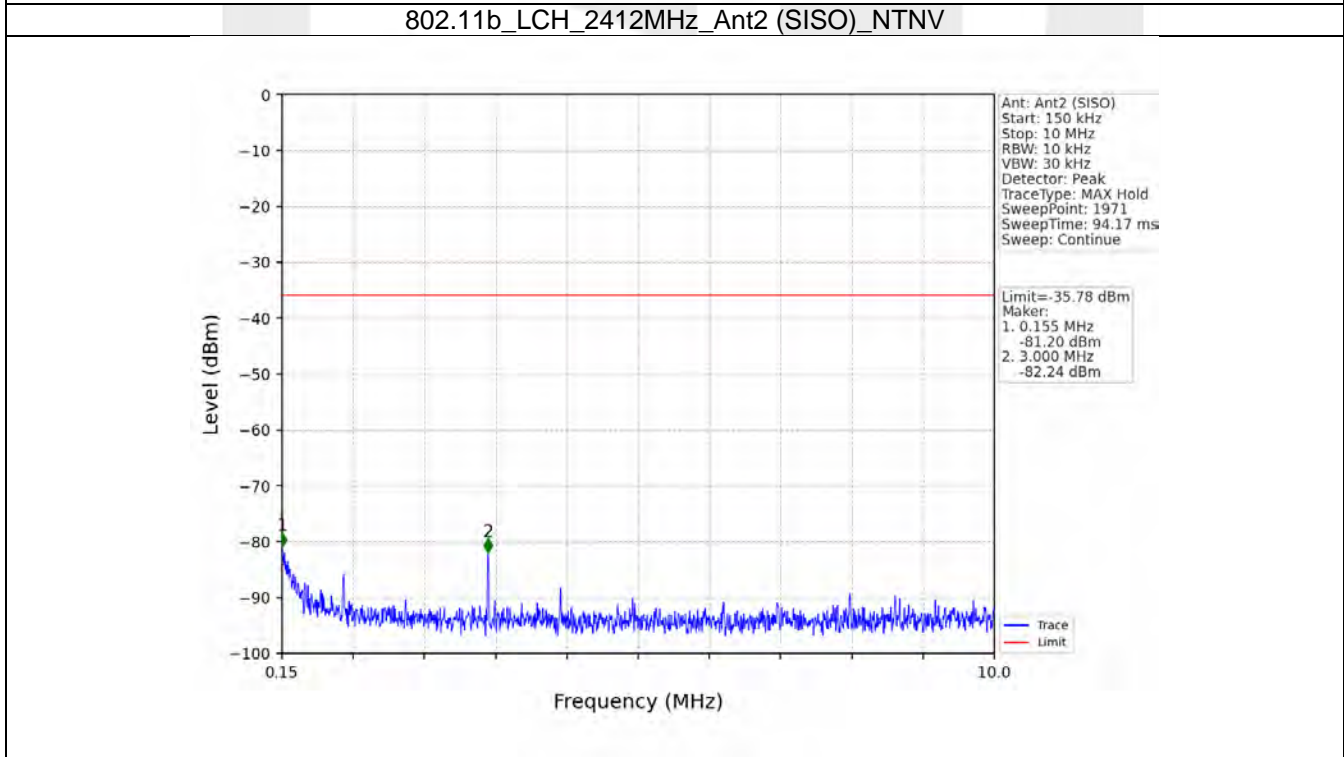
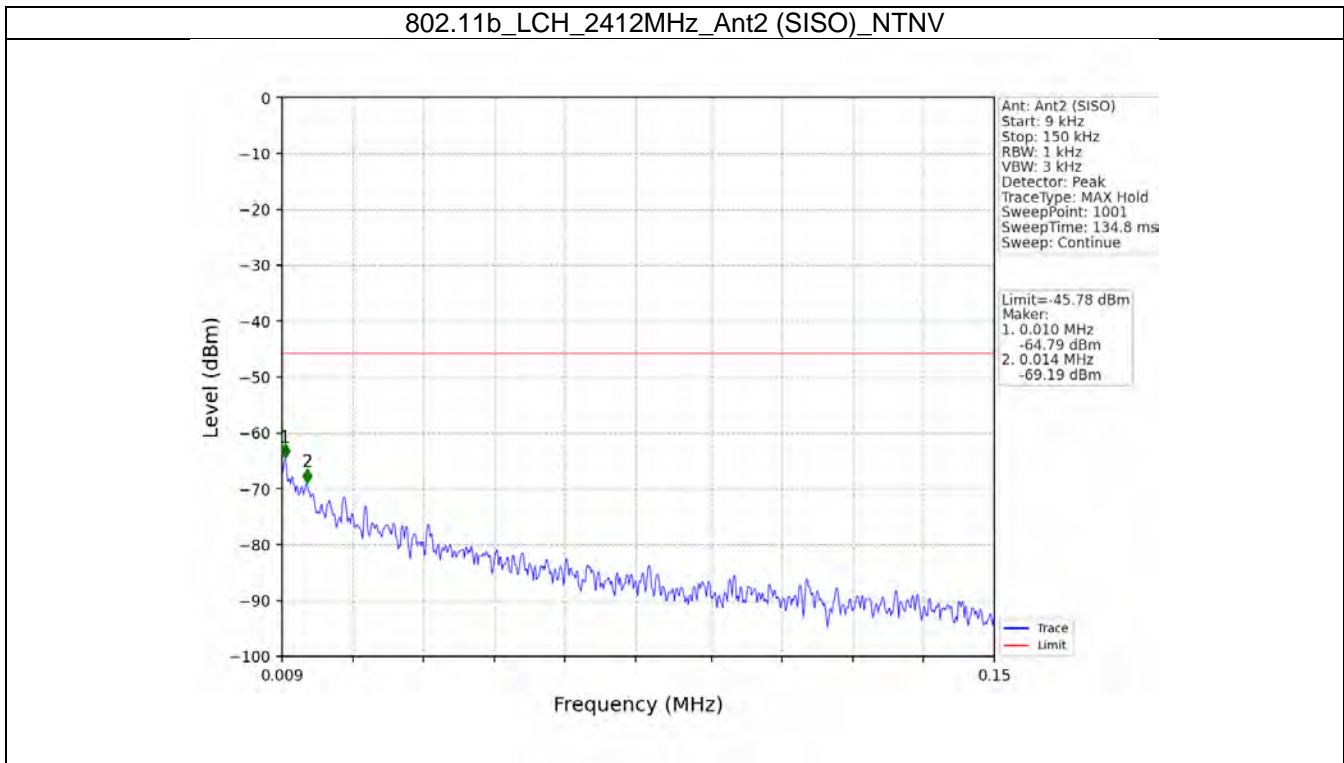


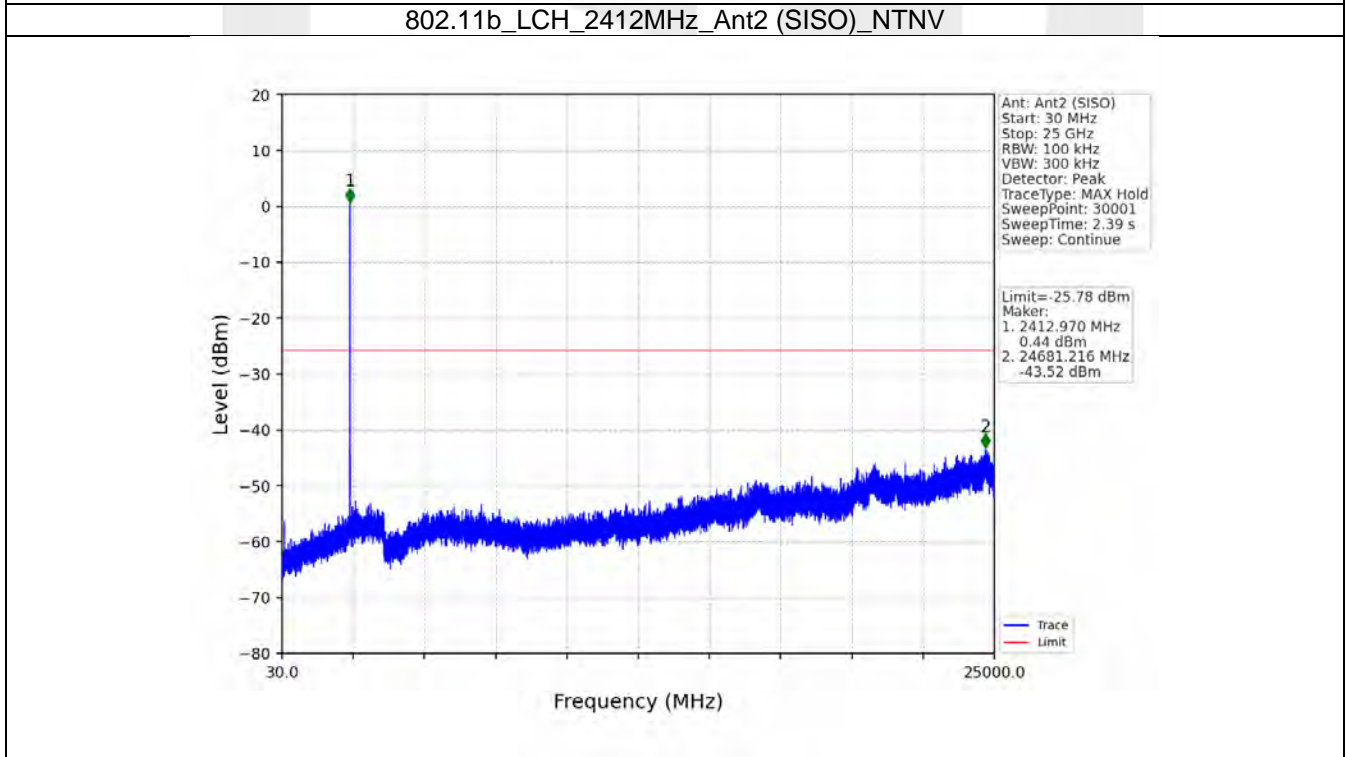
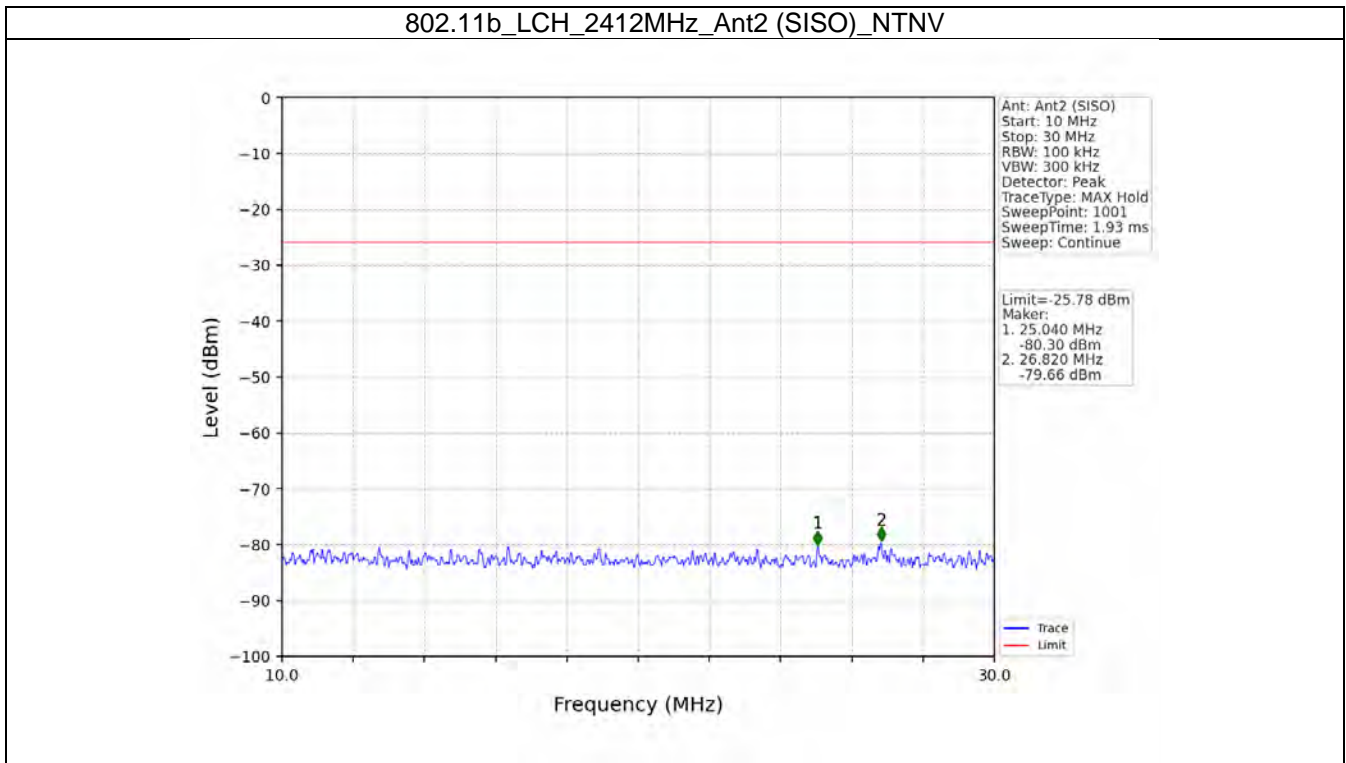
5.2.2 CSE

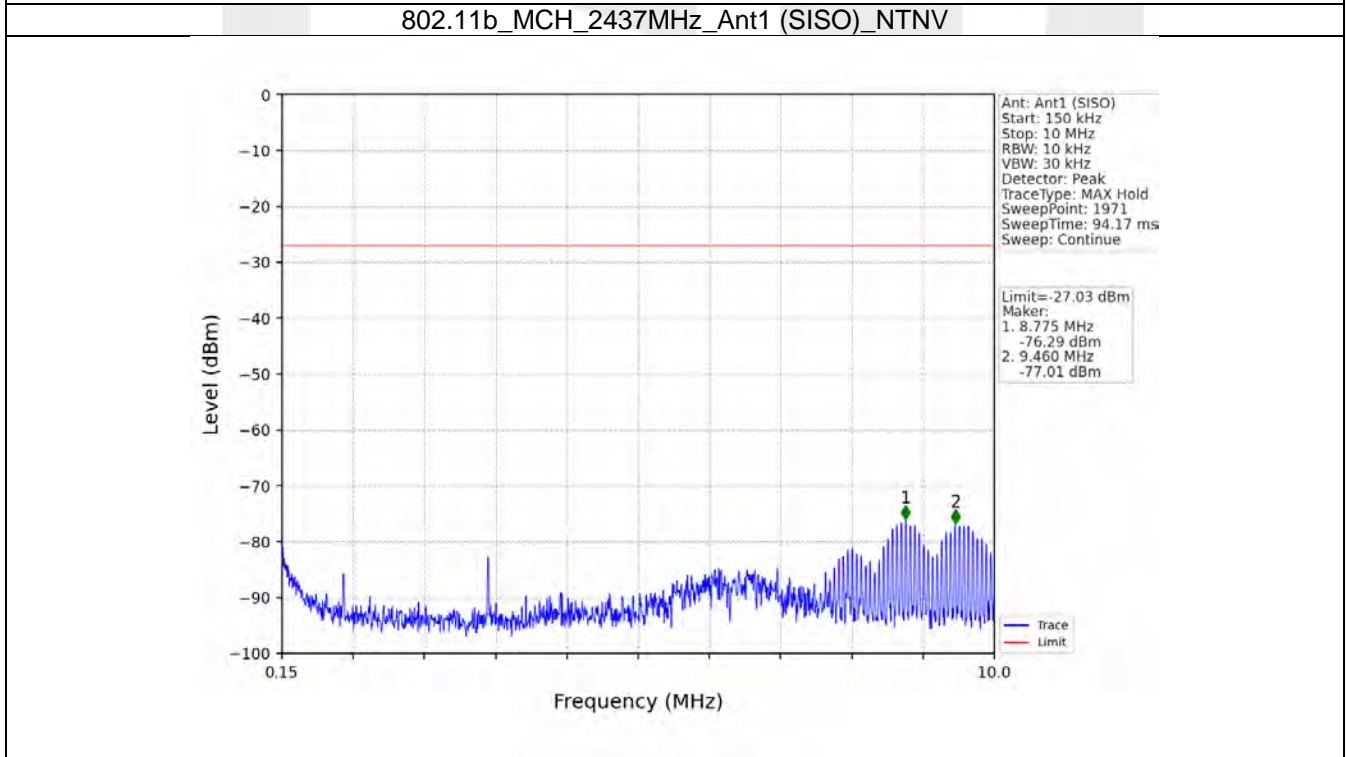
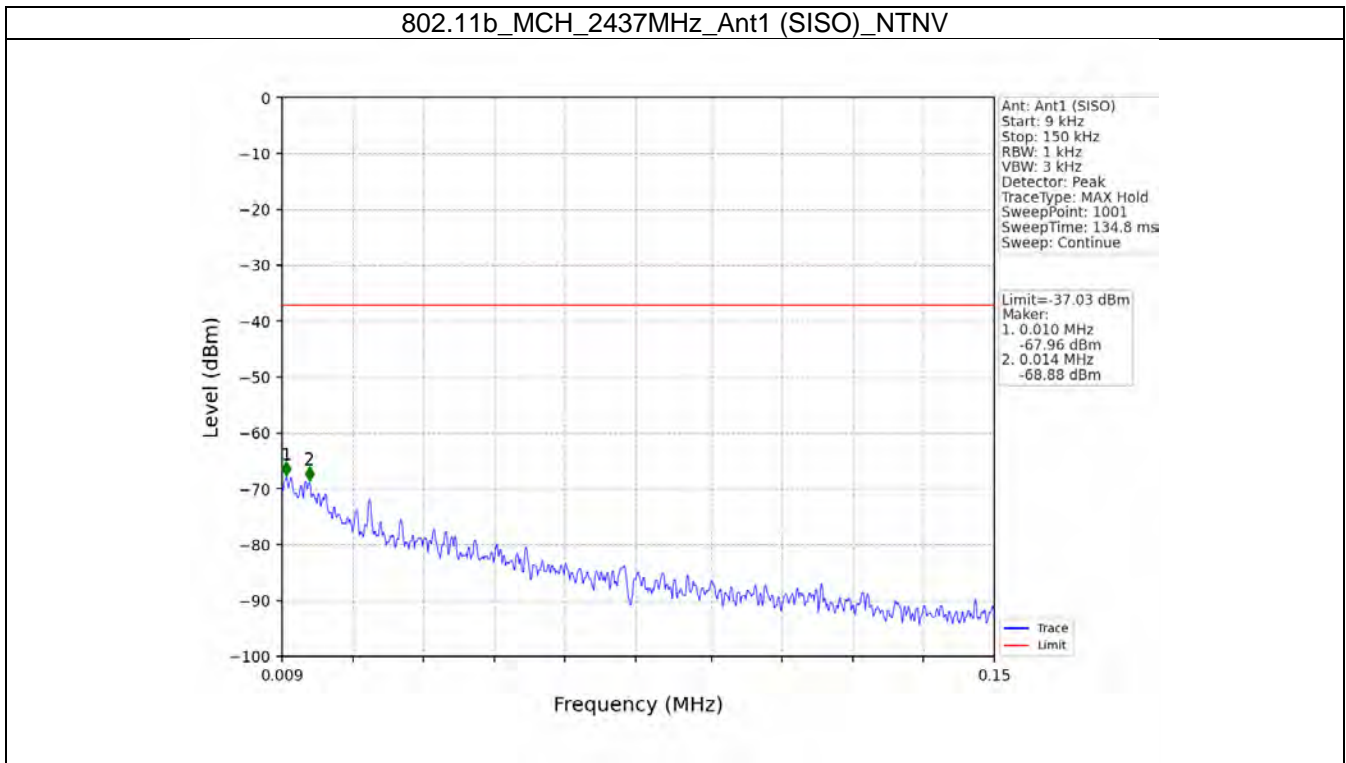


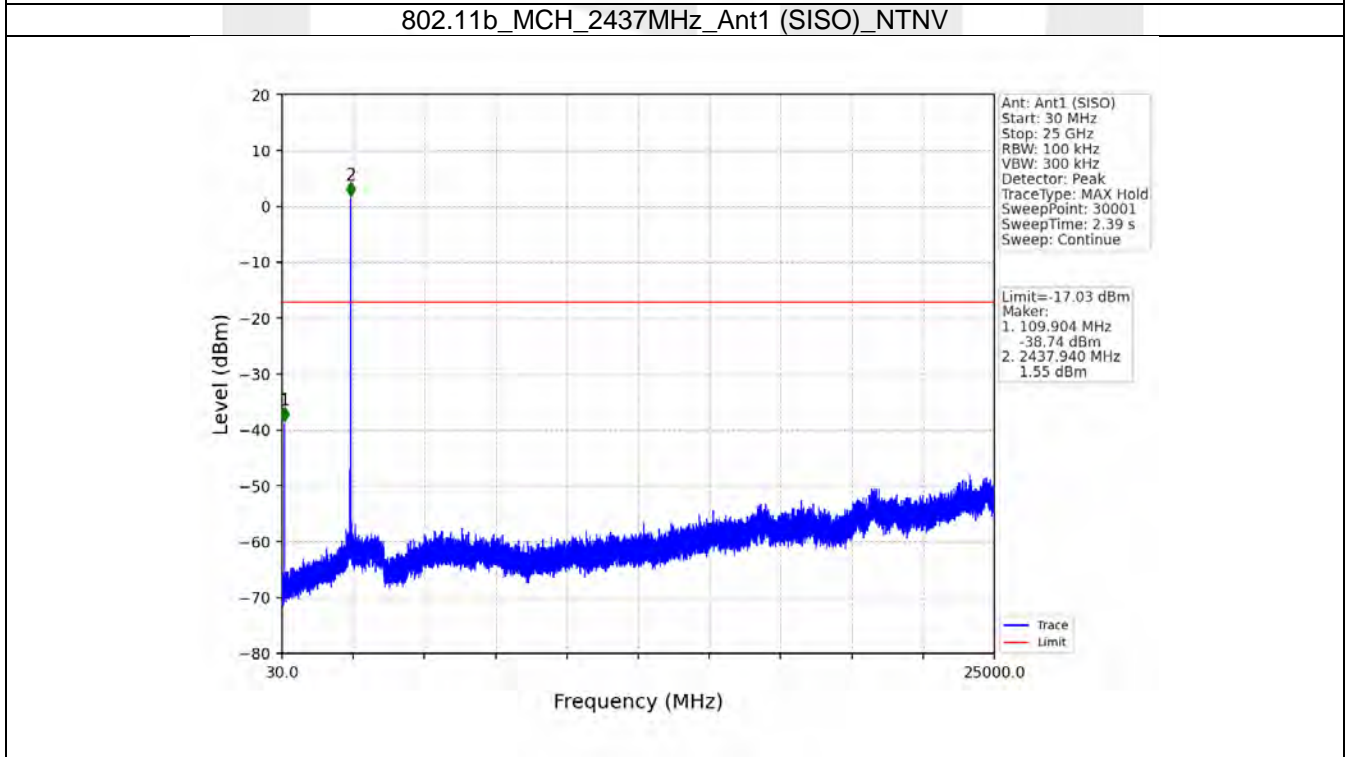
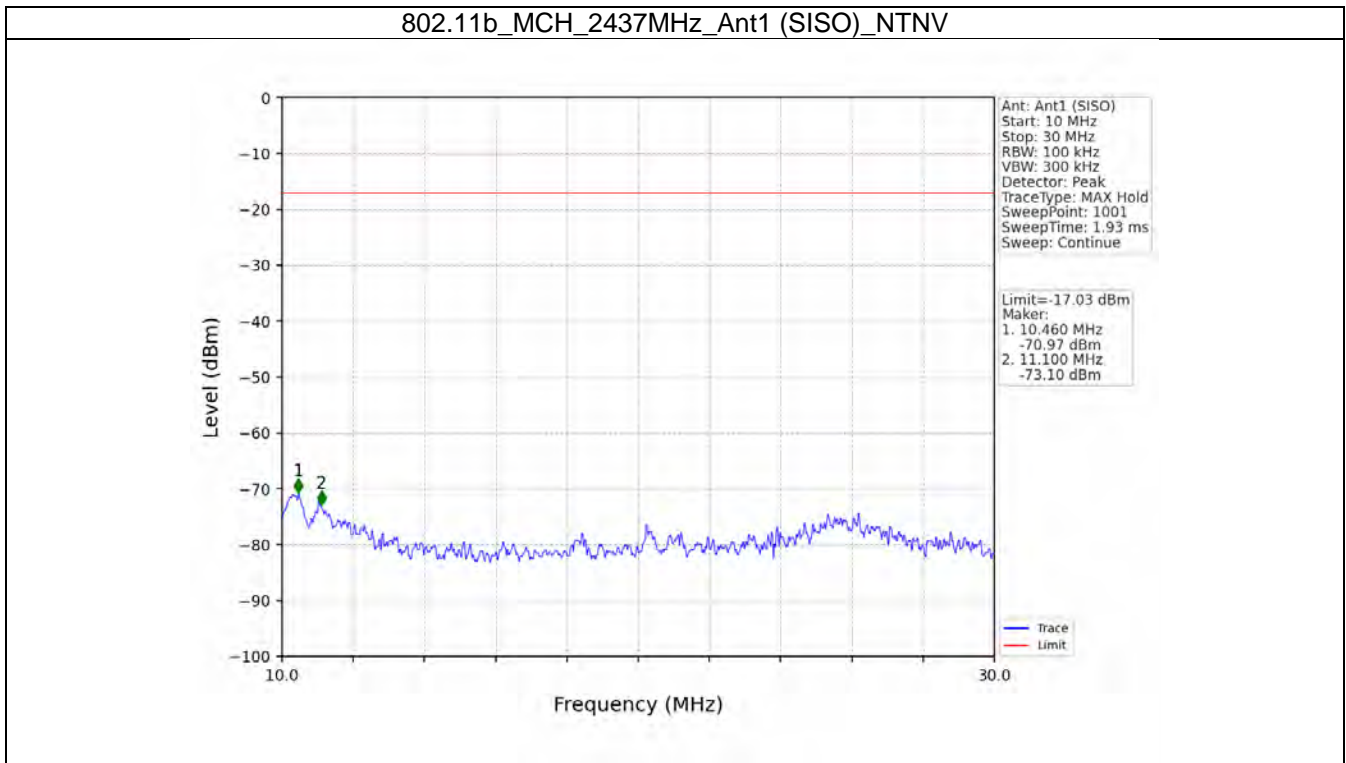


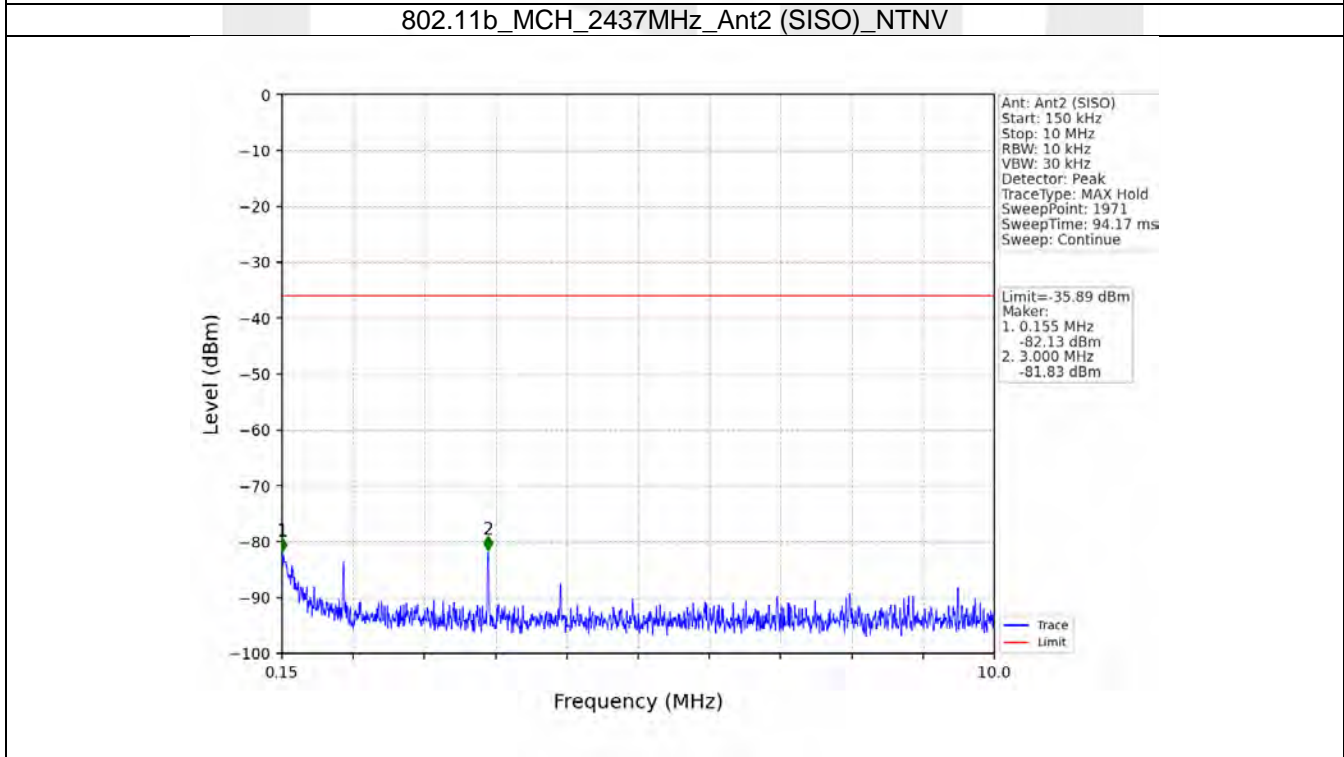
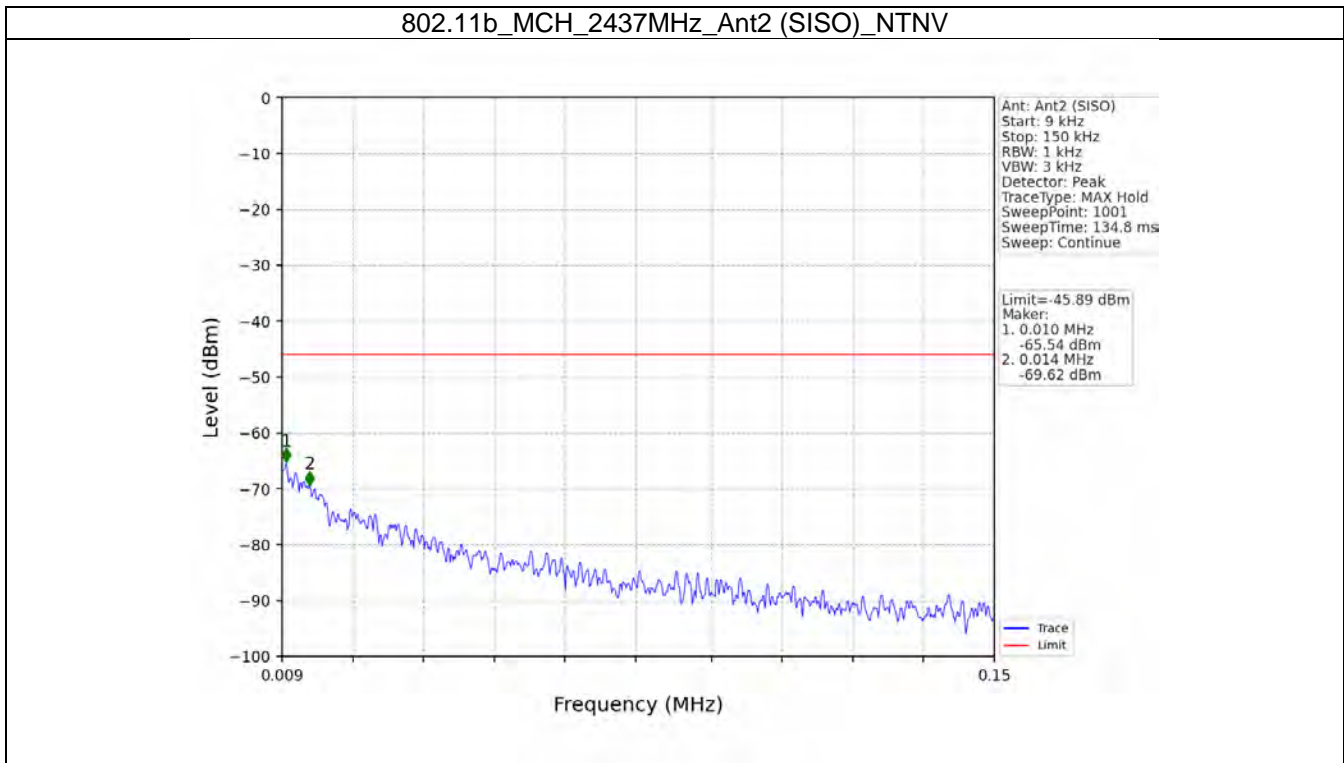


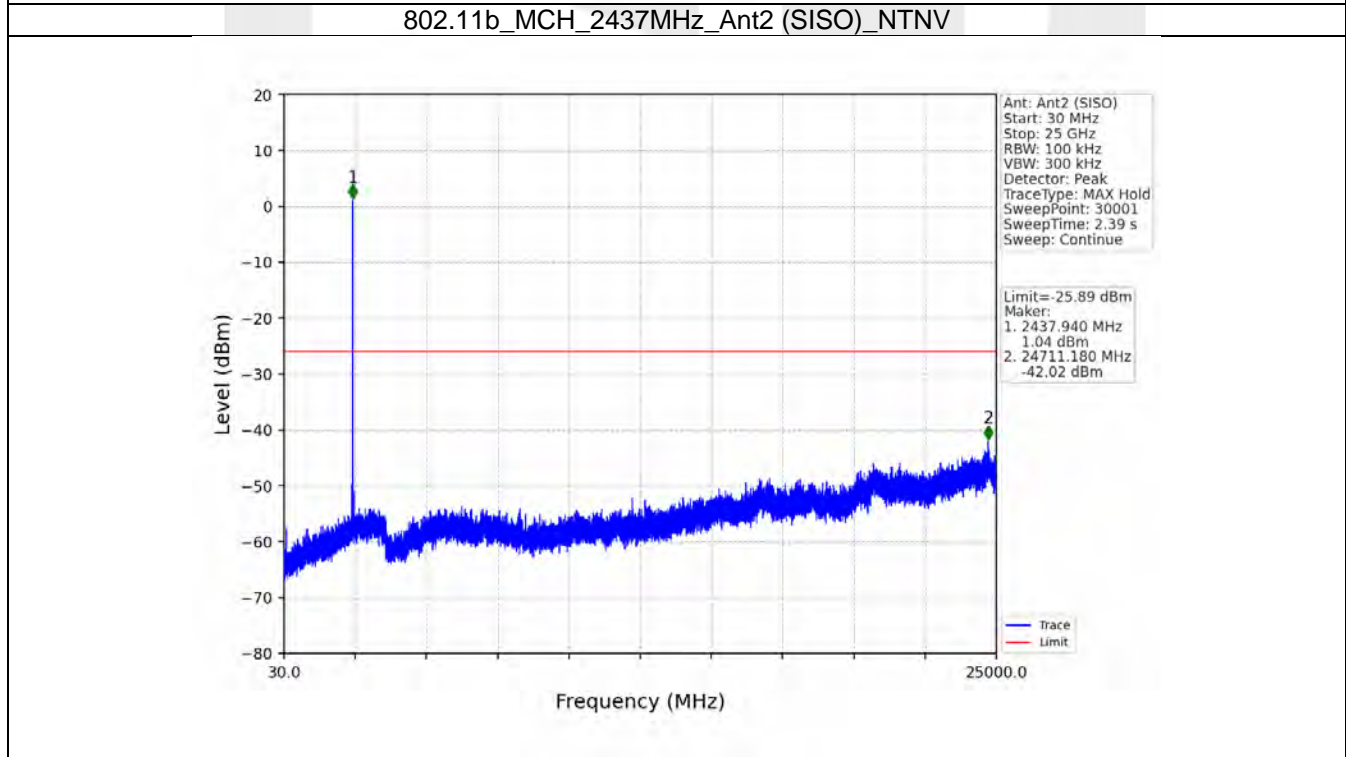
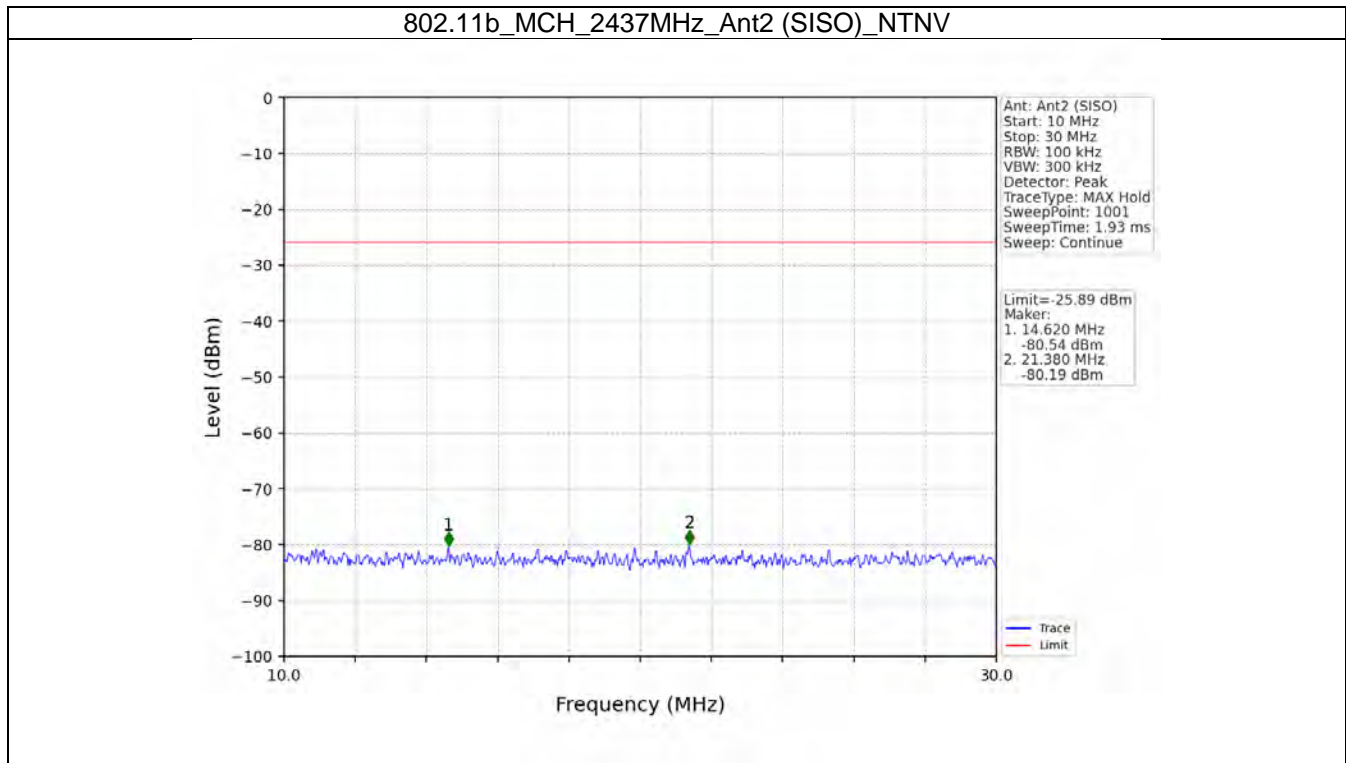


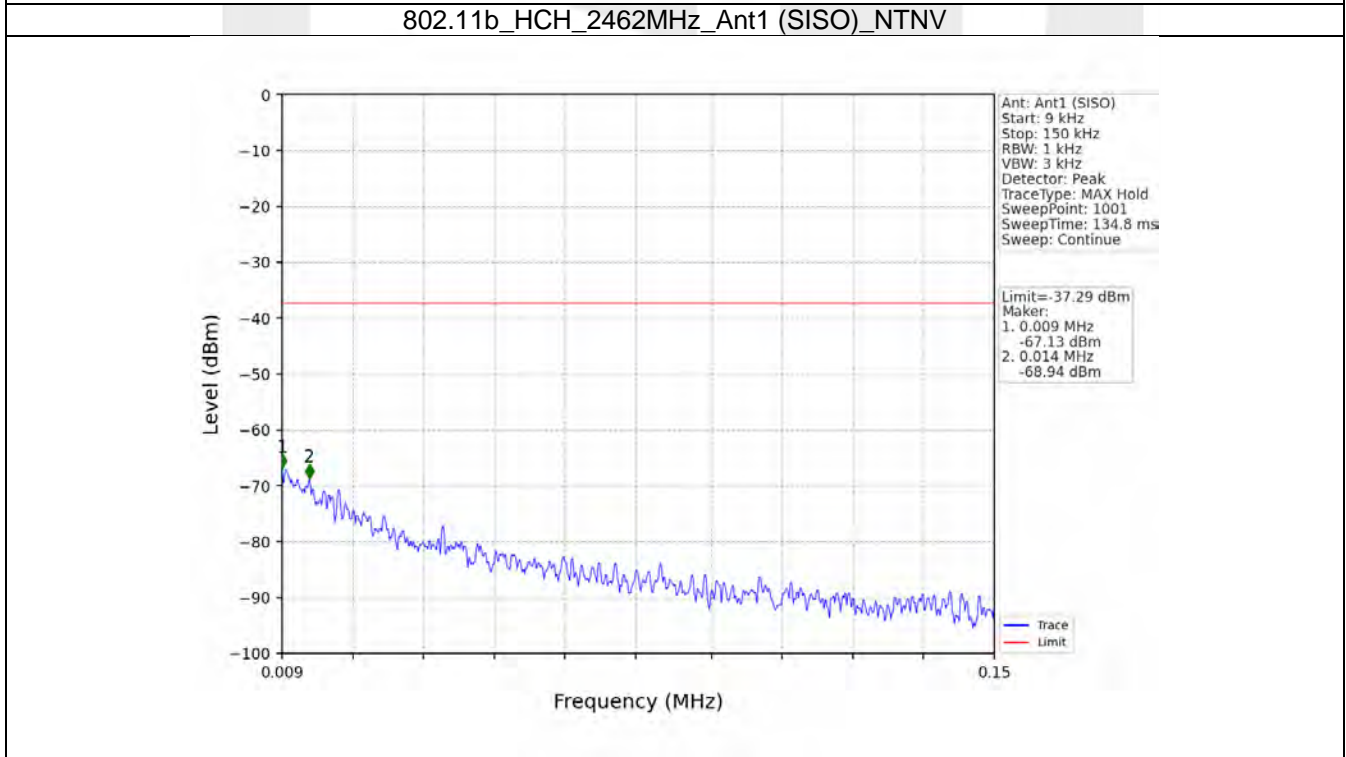
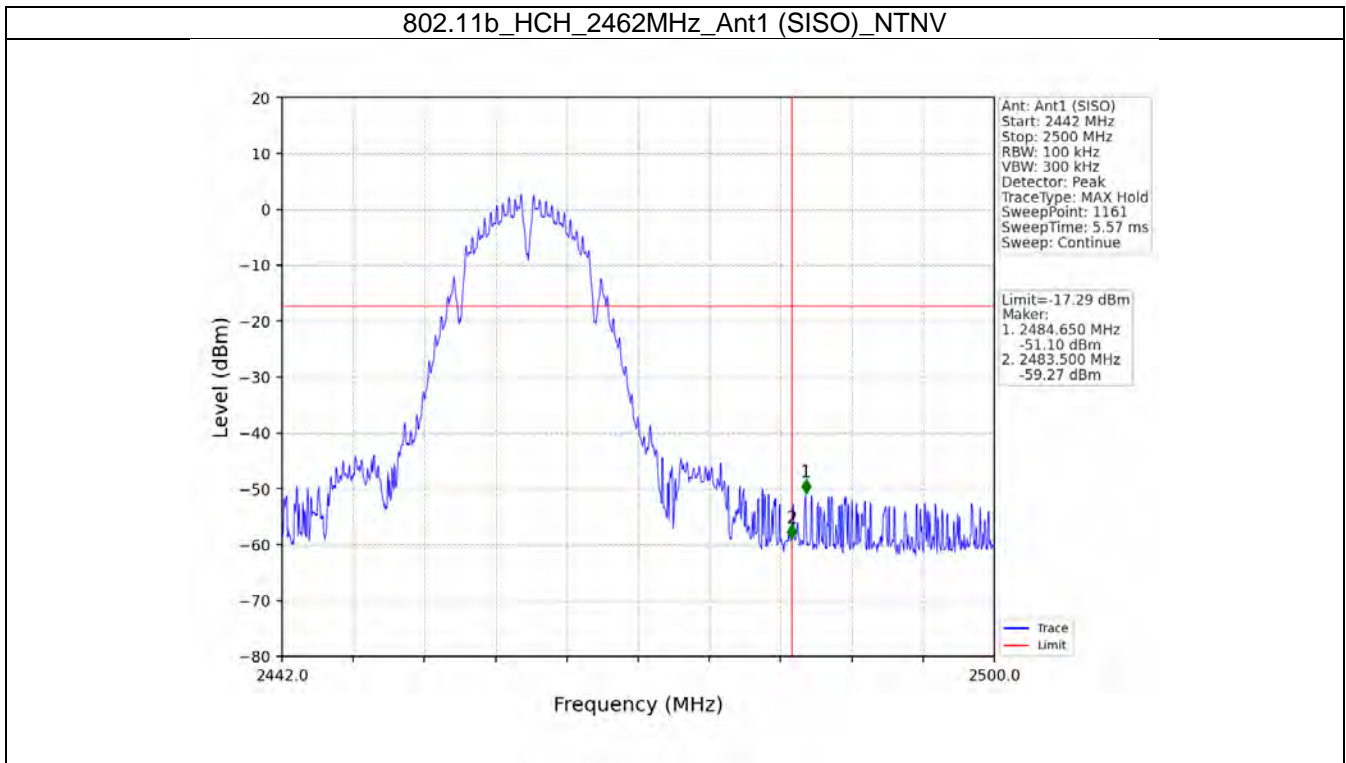


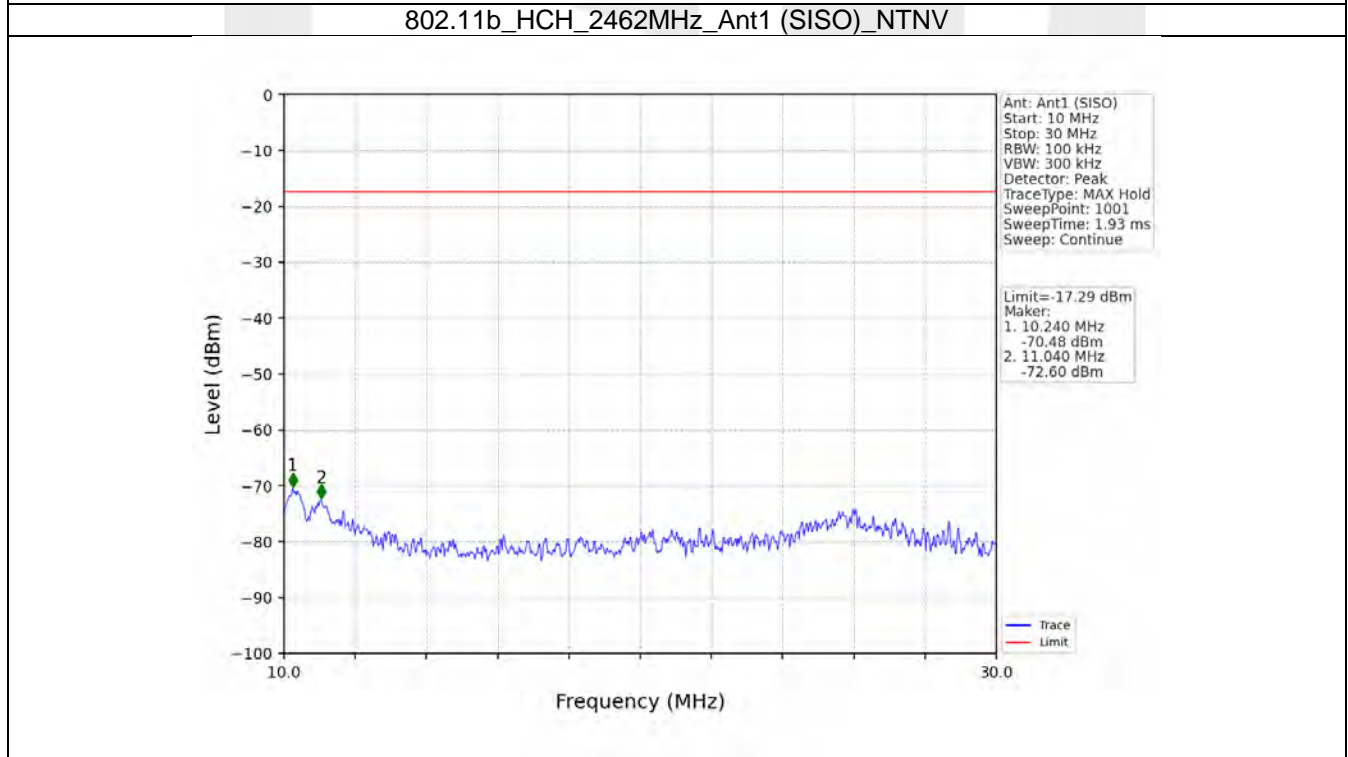
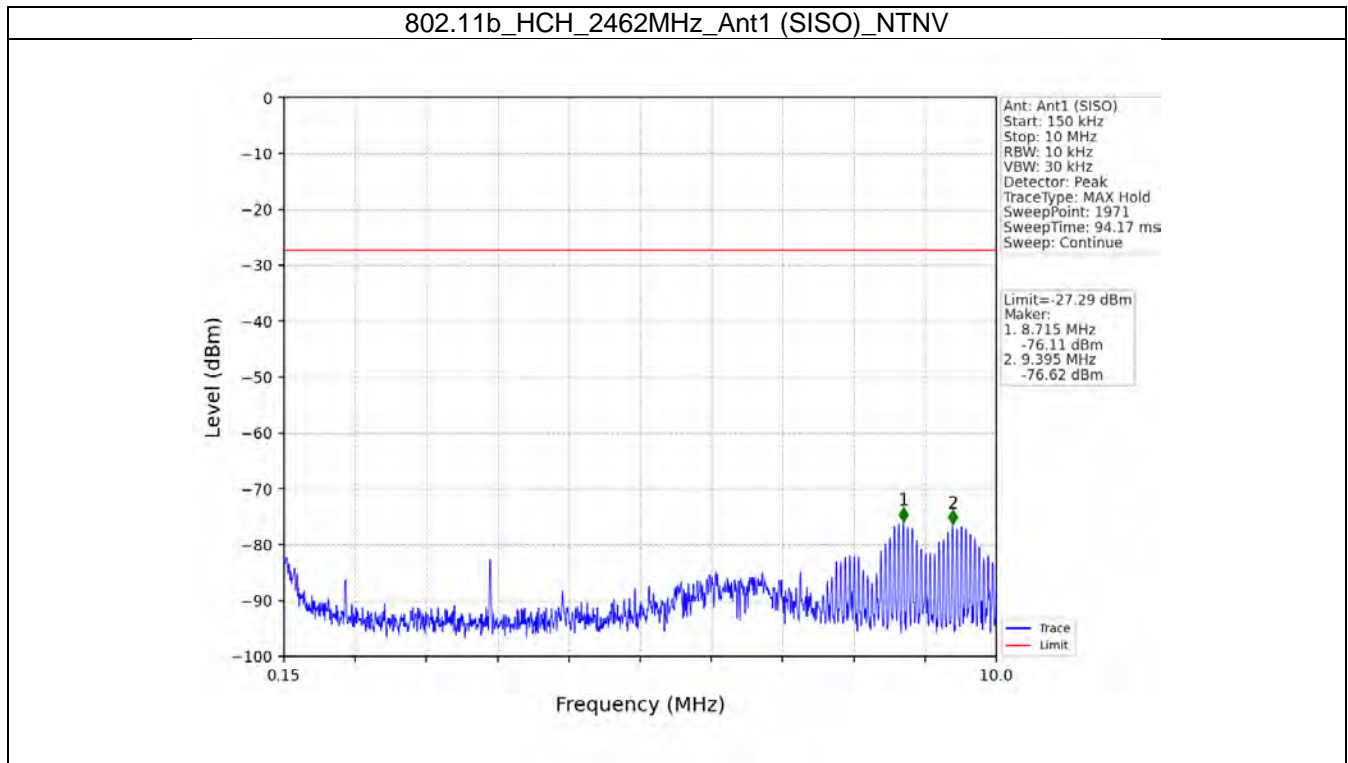


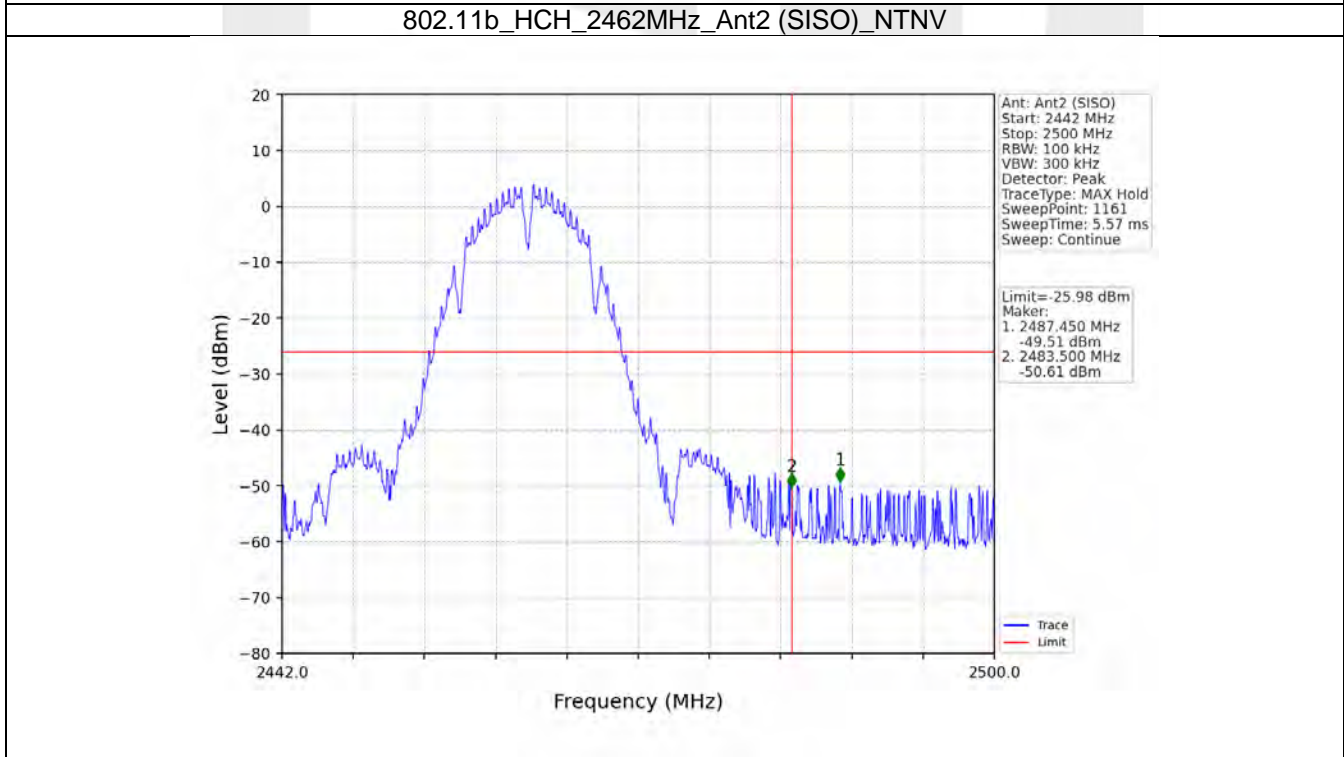
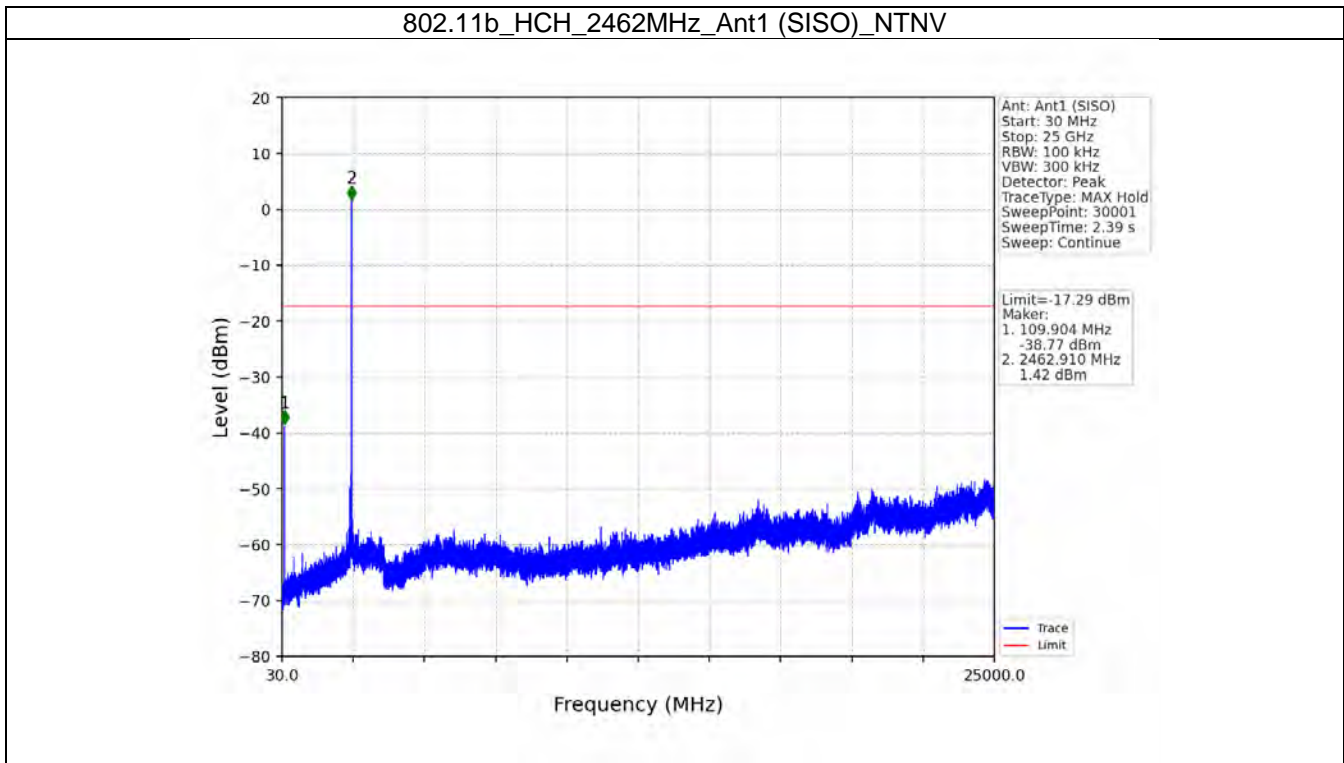


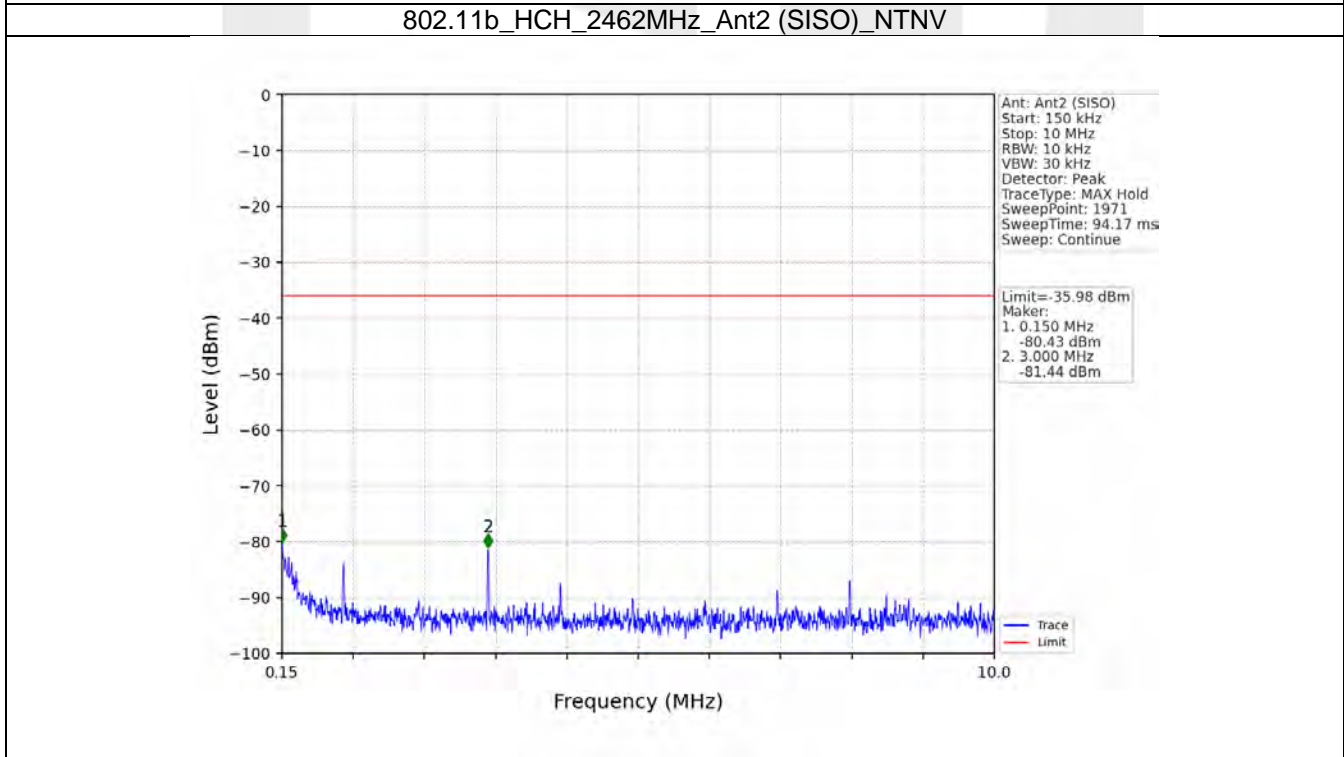
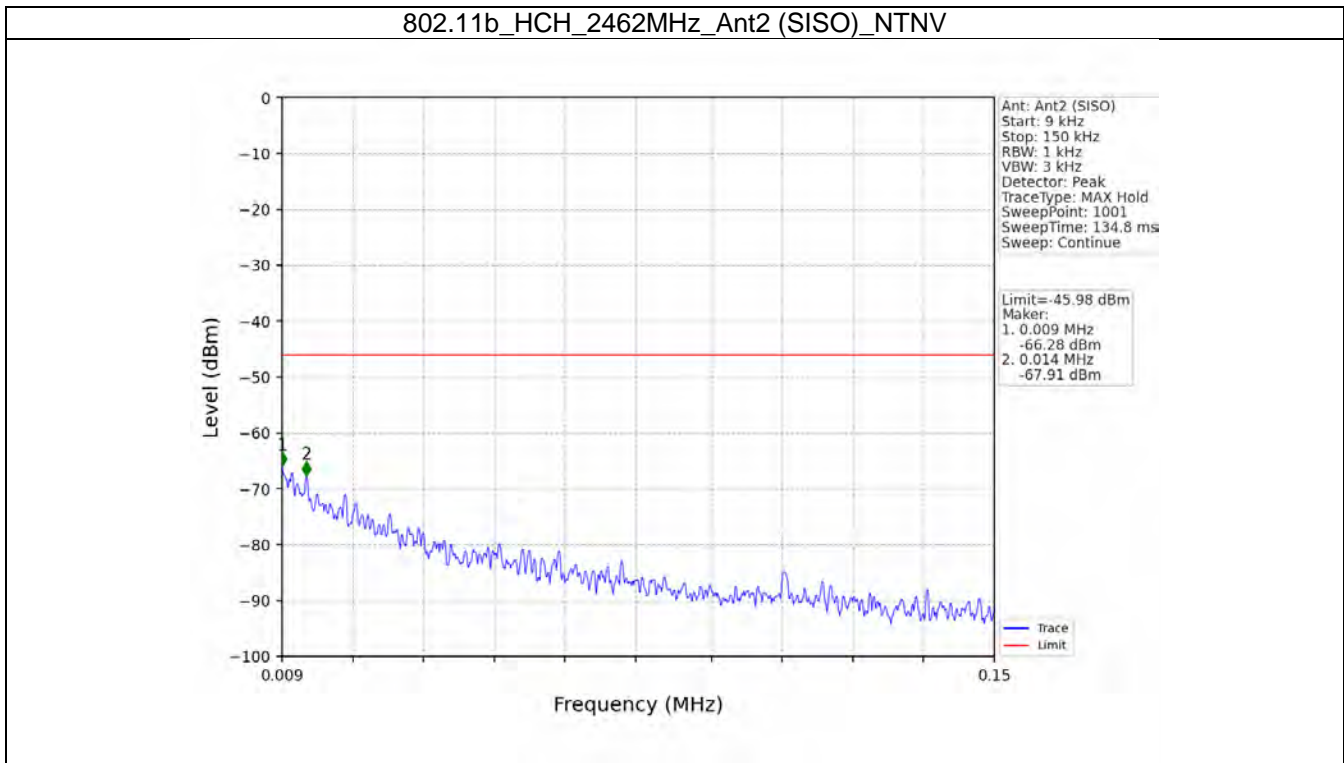


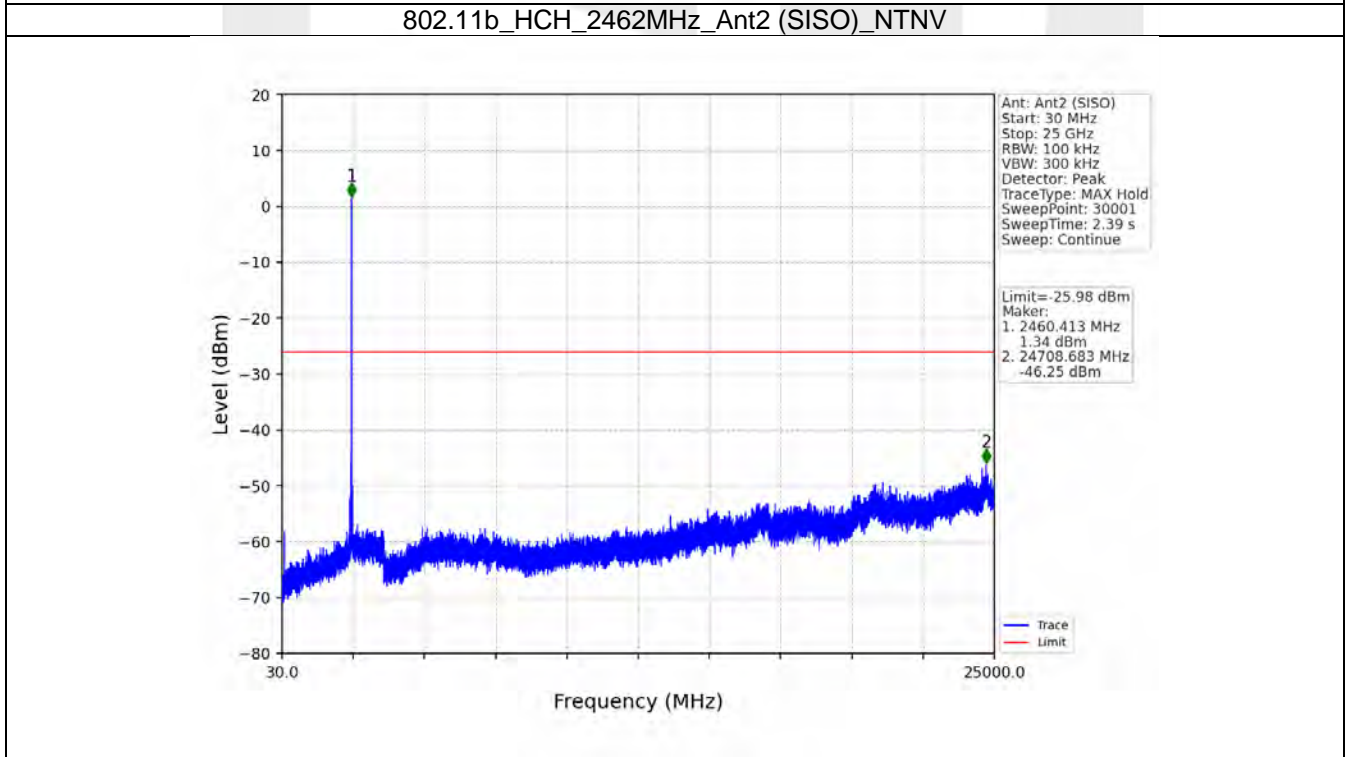
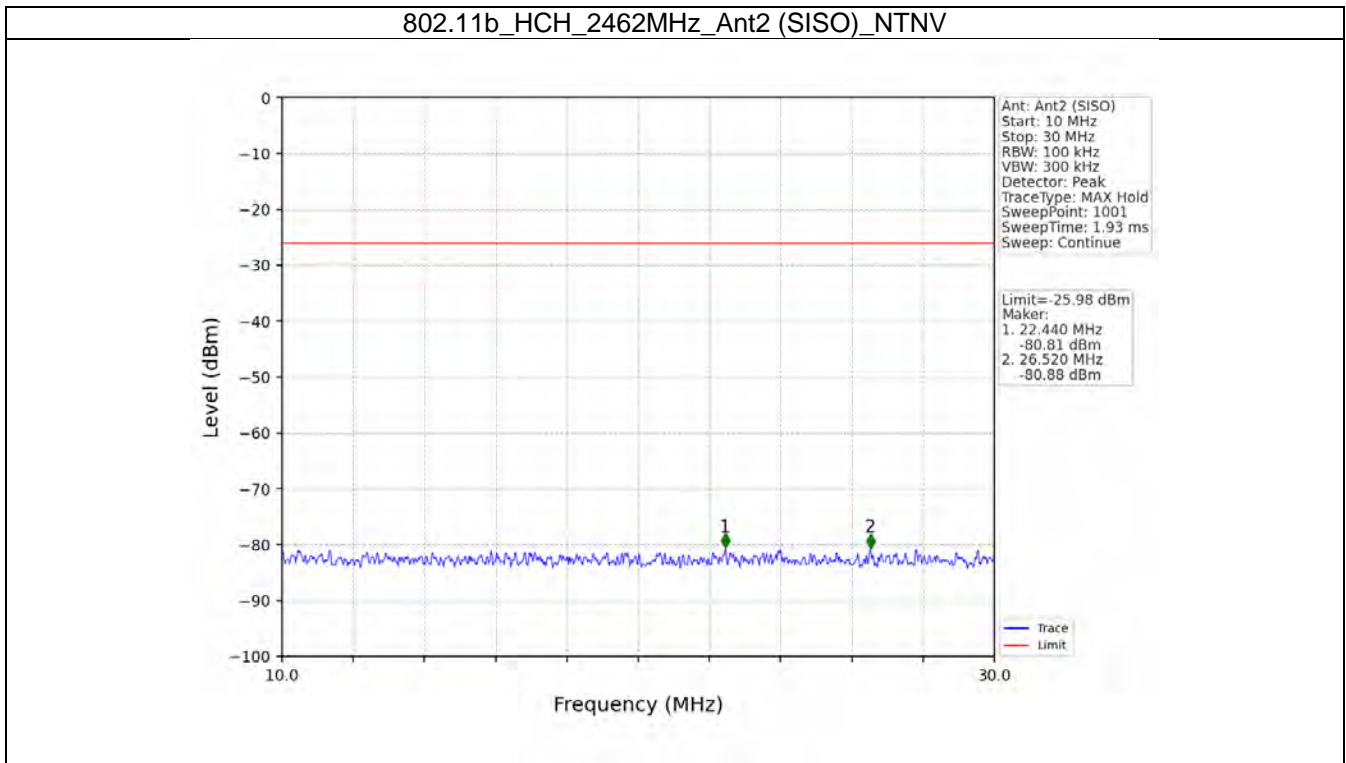


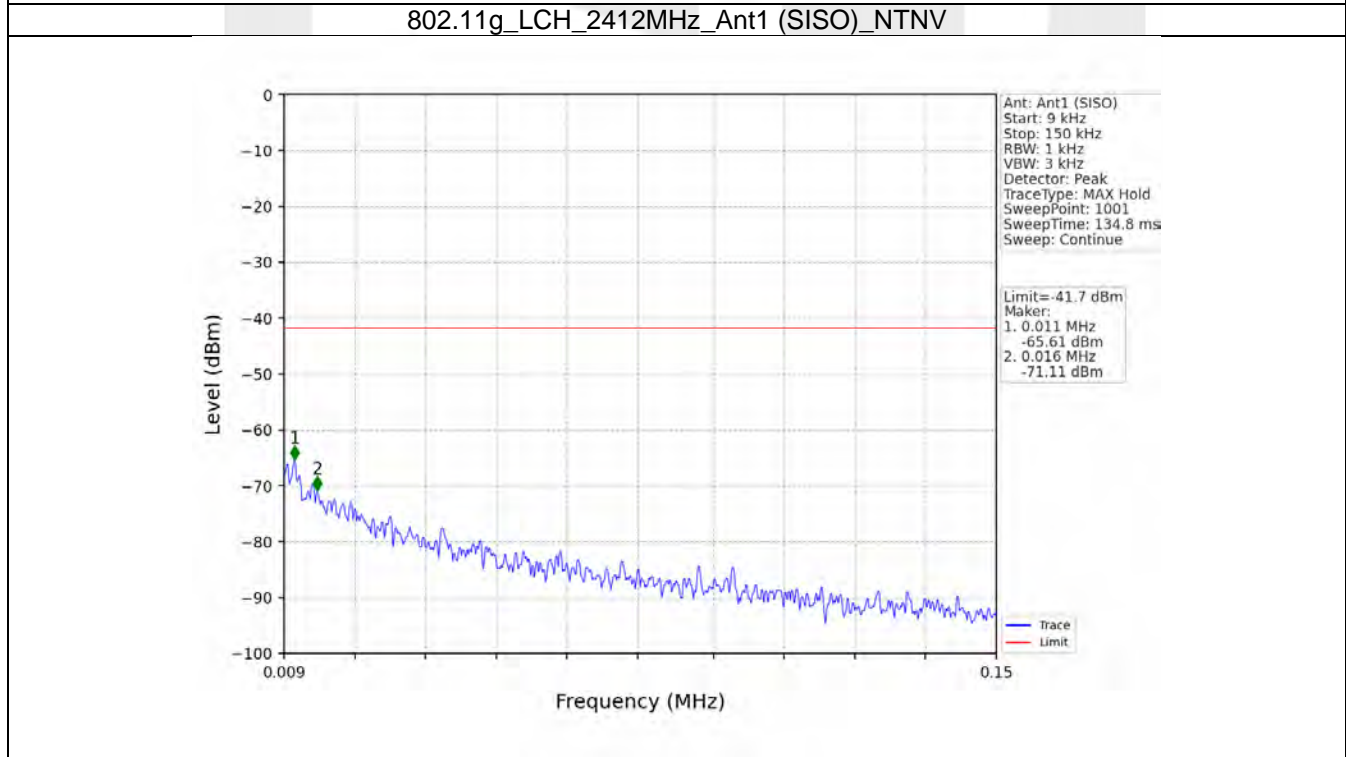
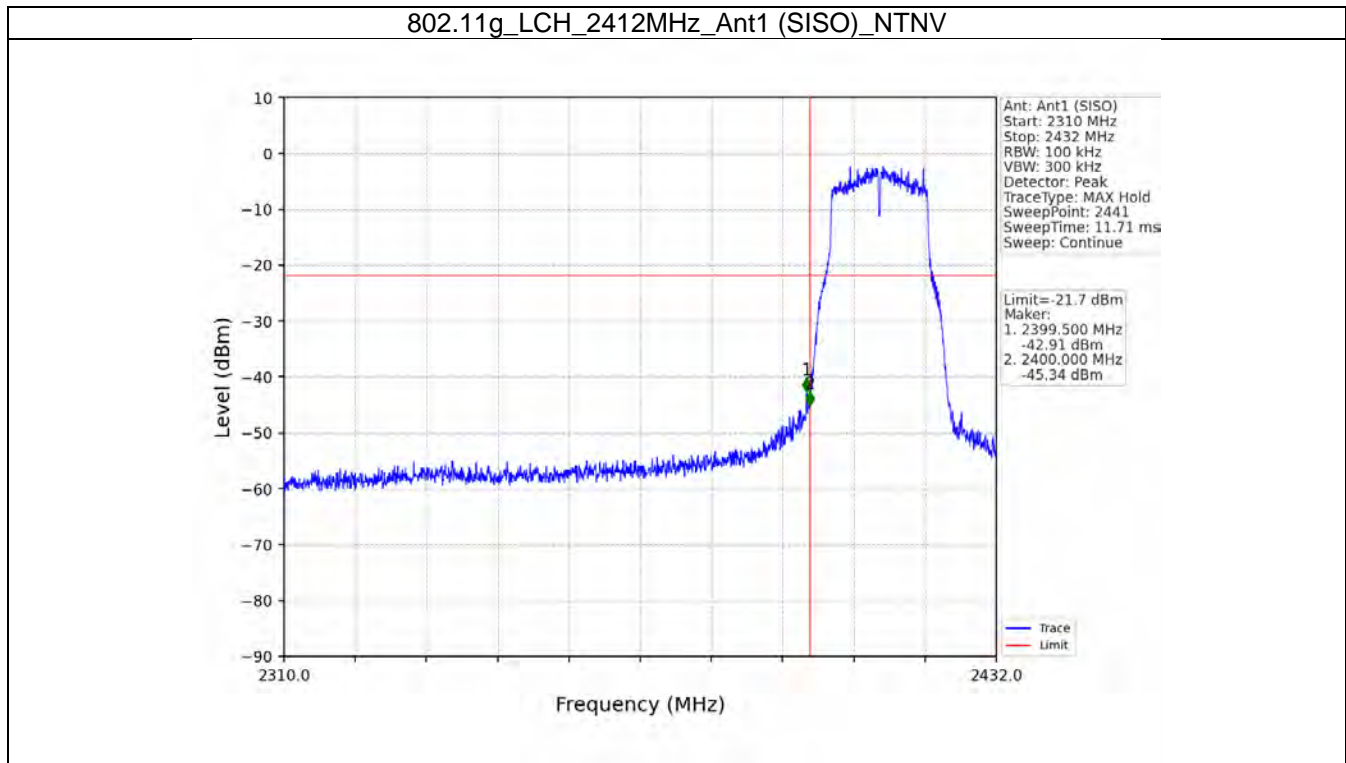


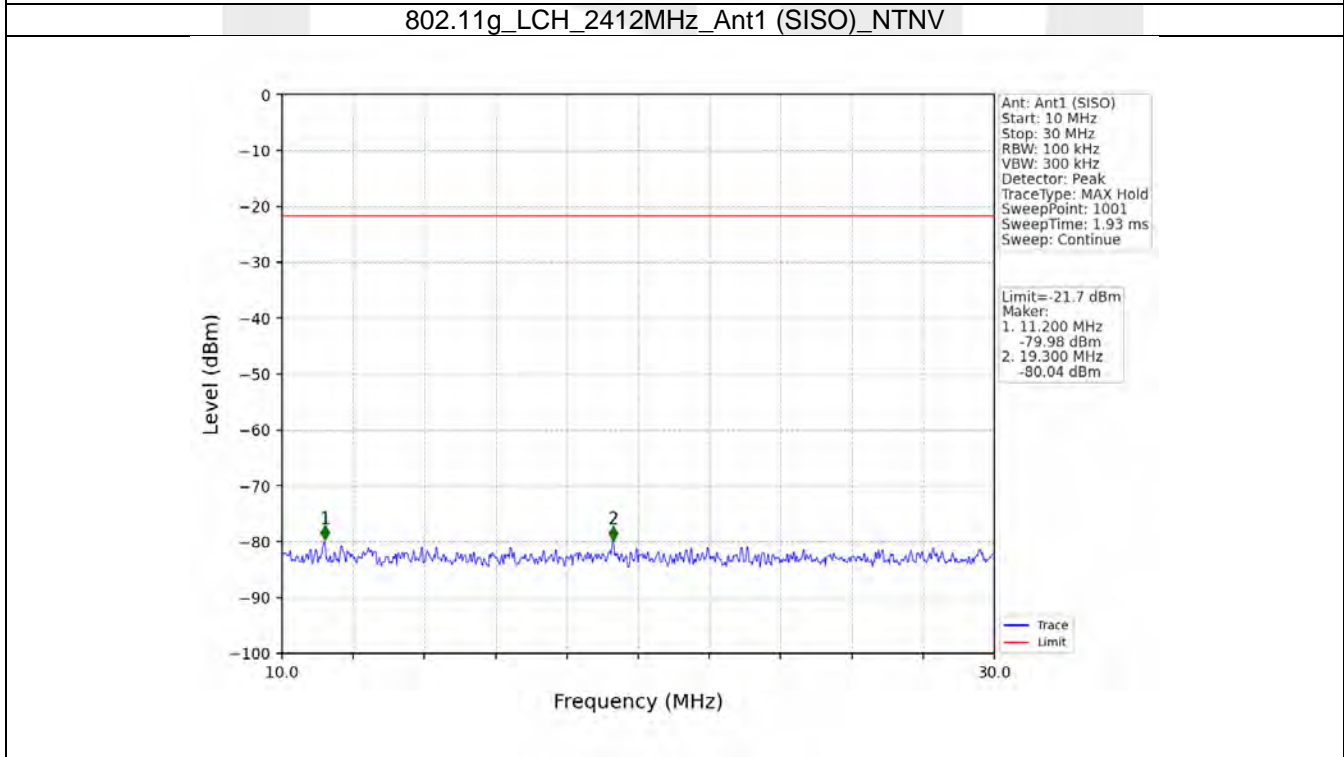
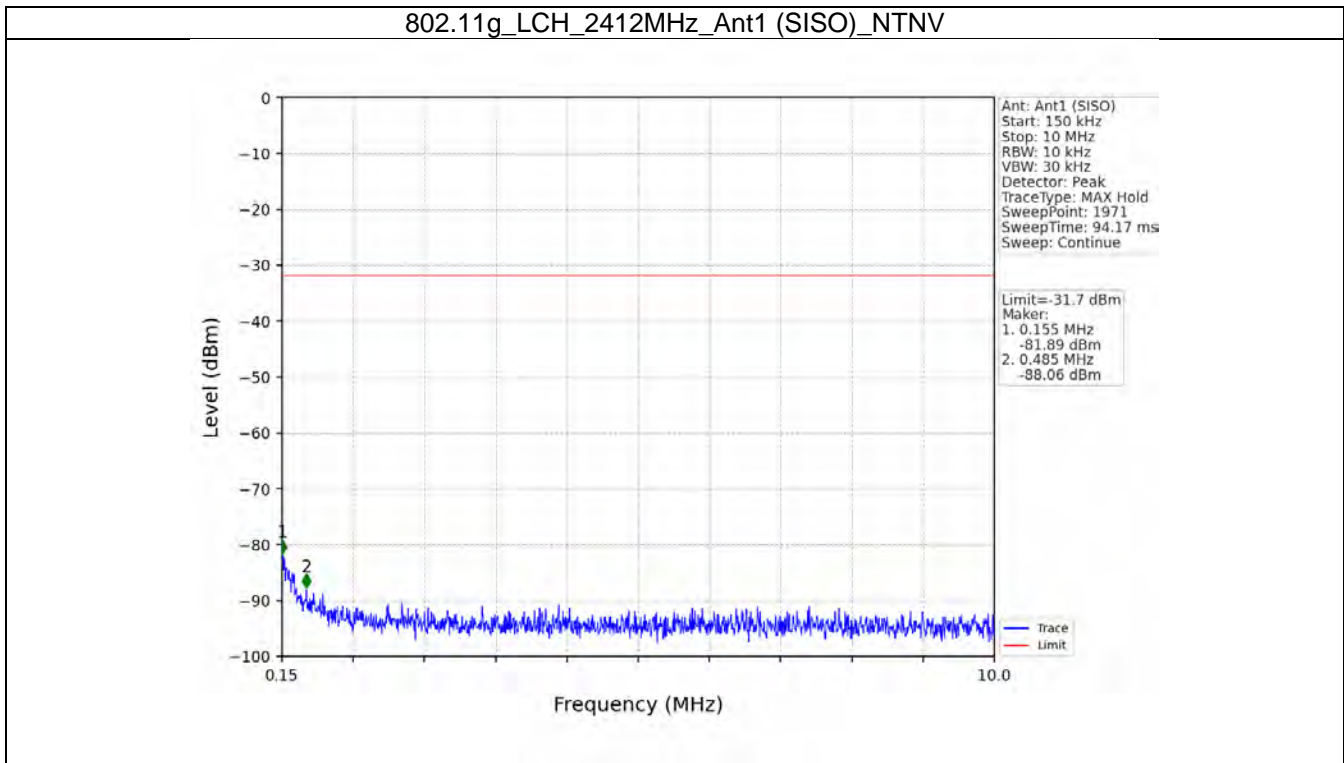


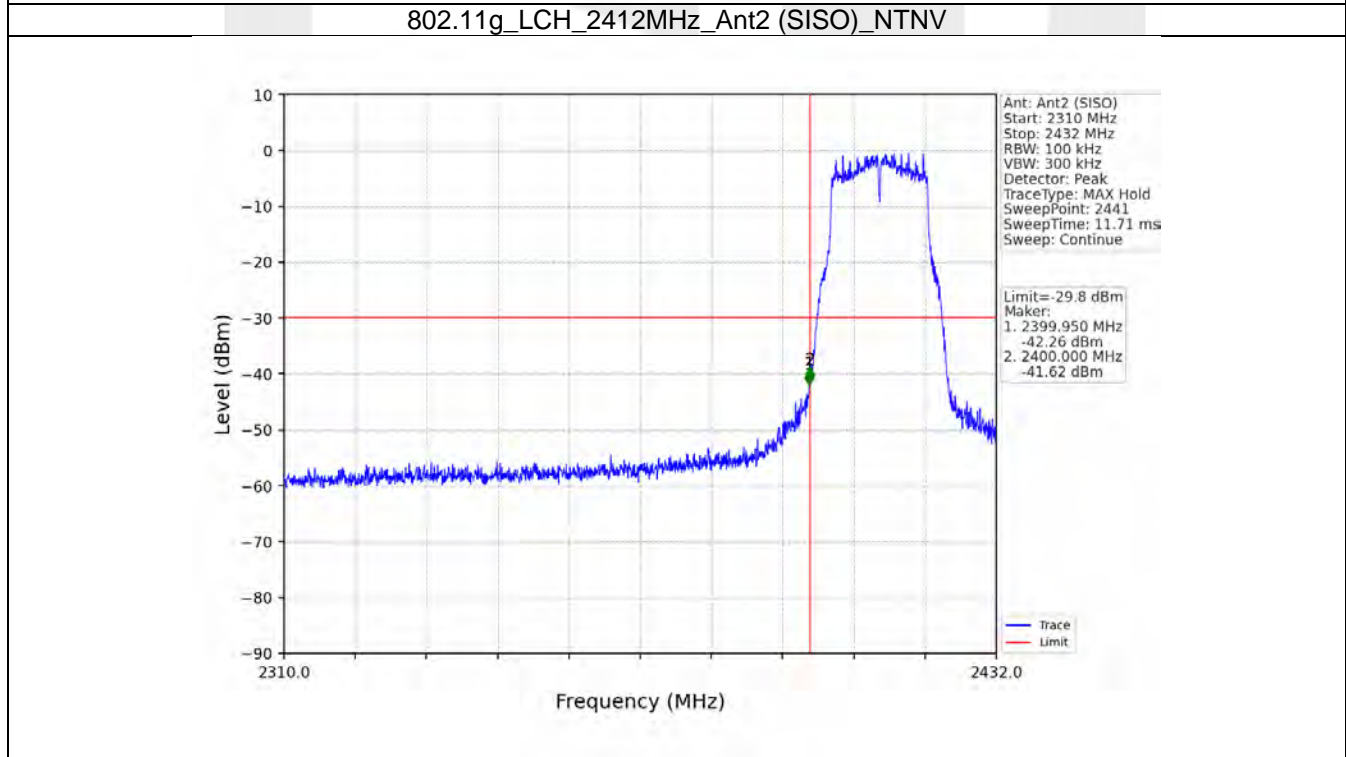
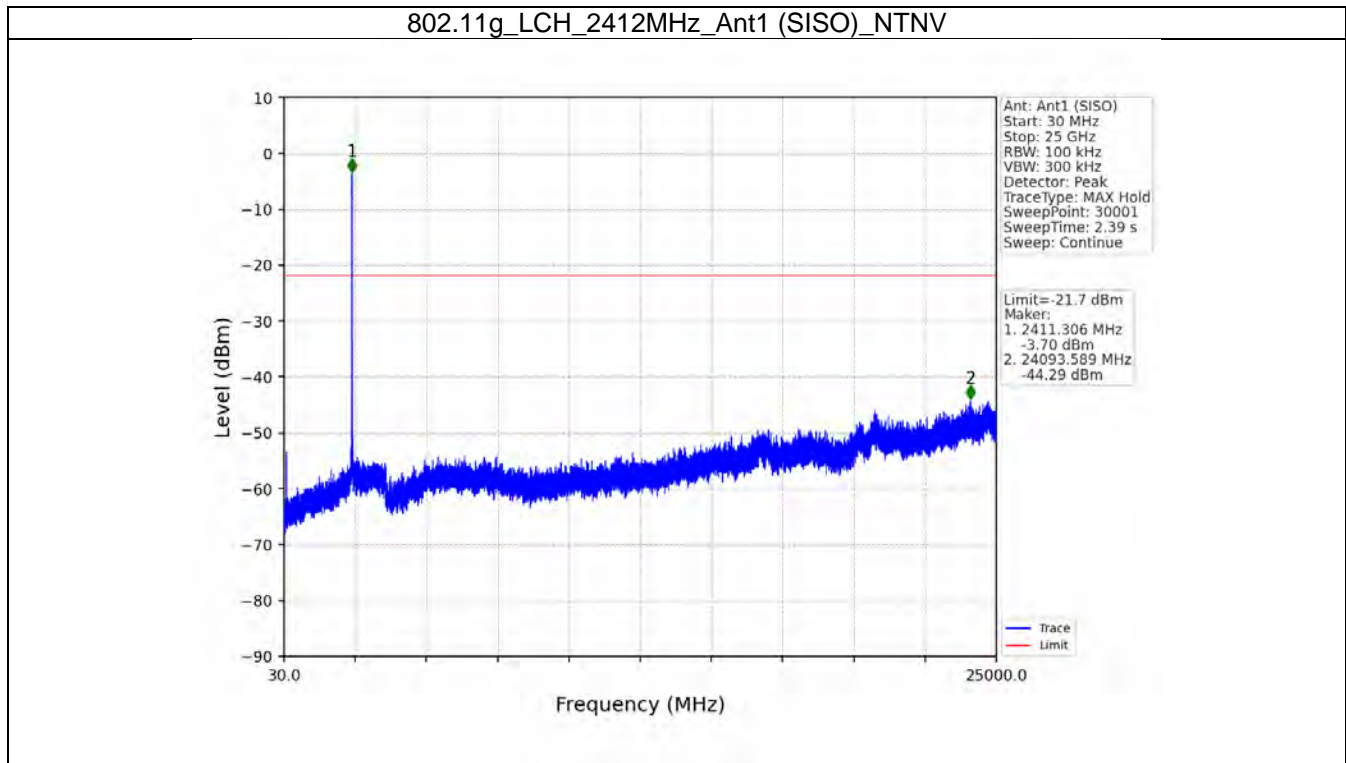


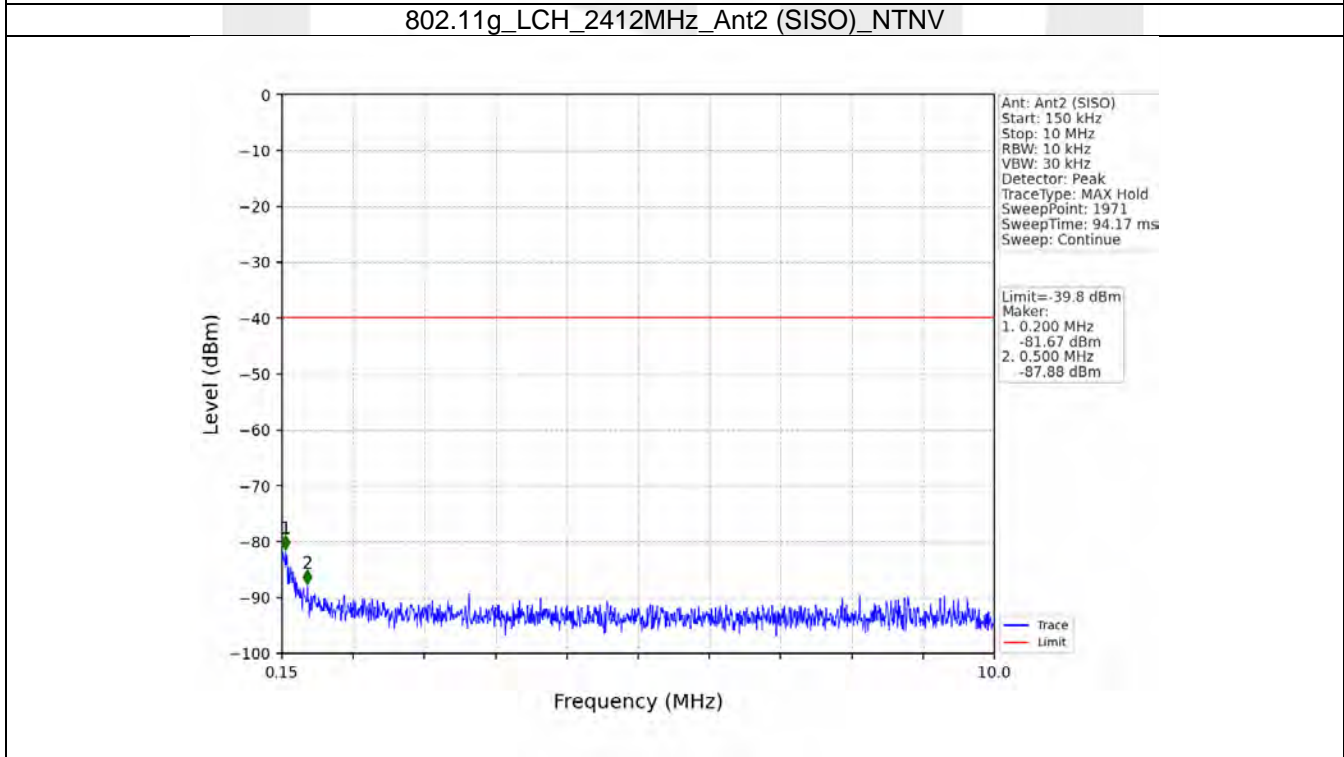
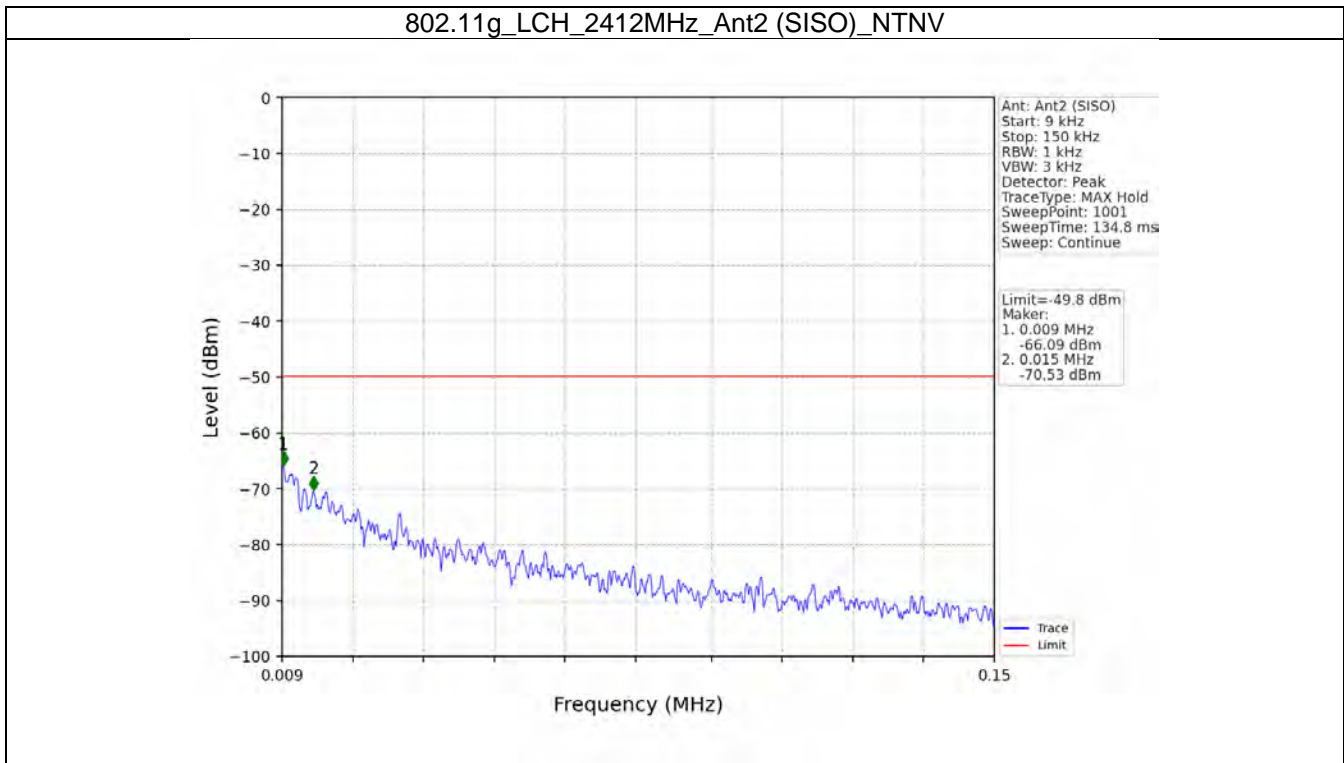


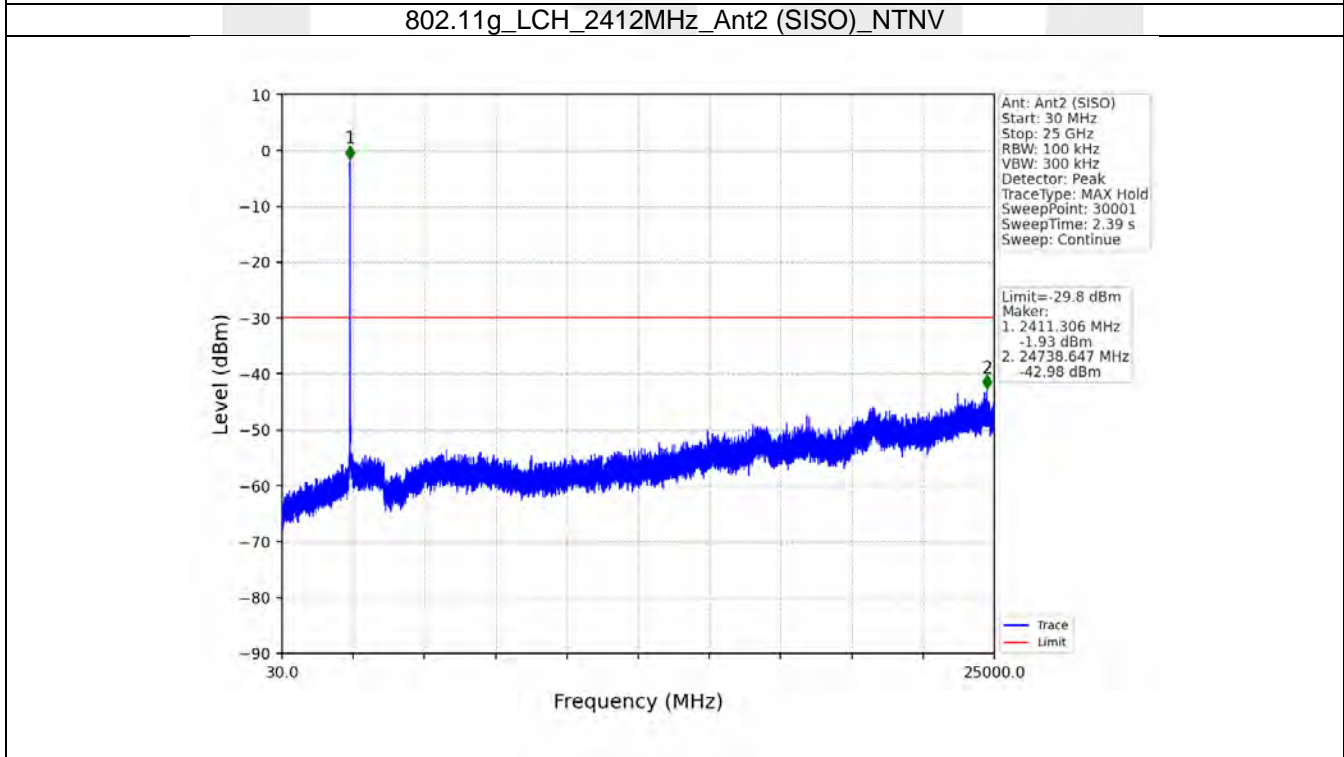
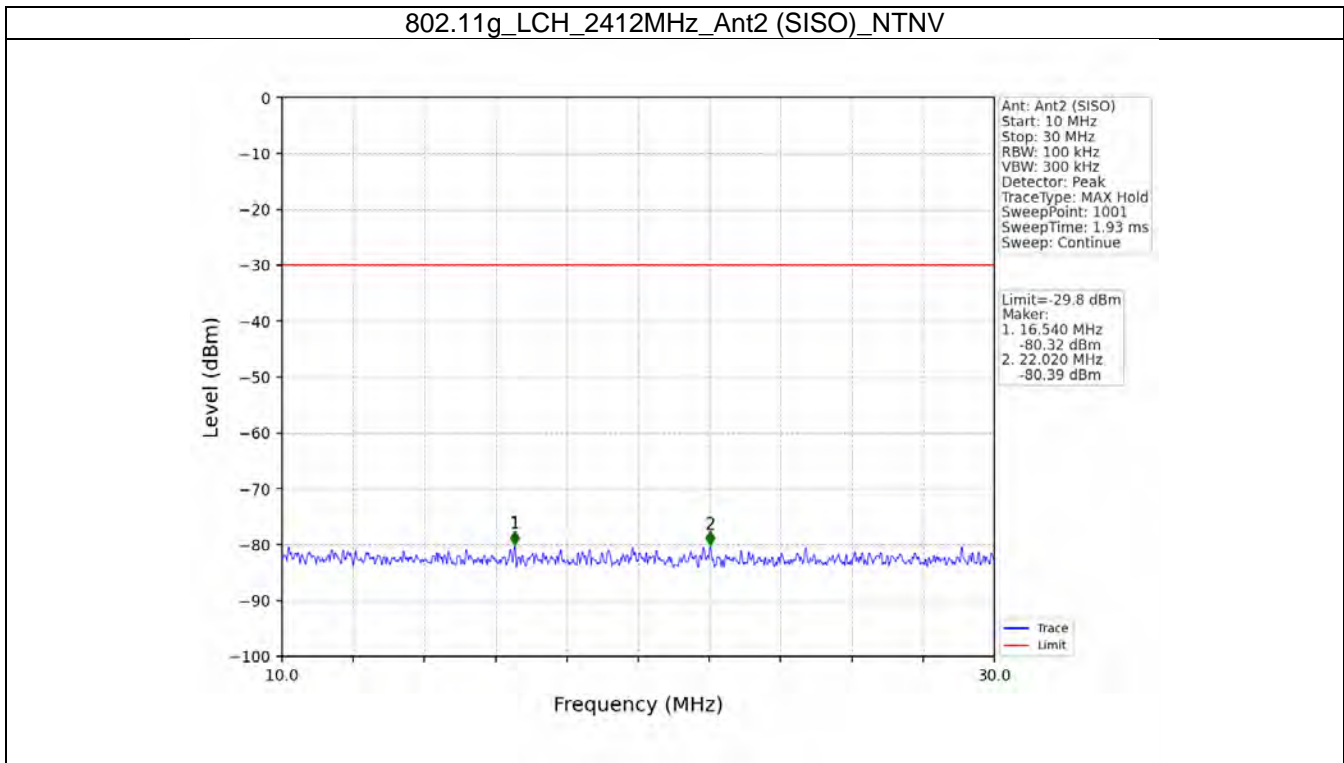


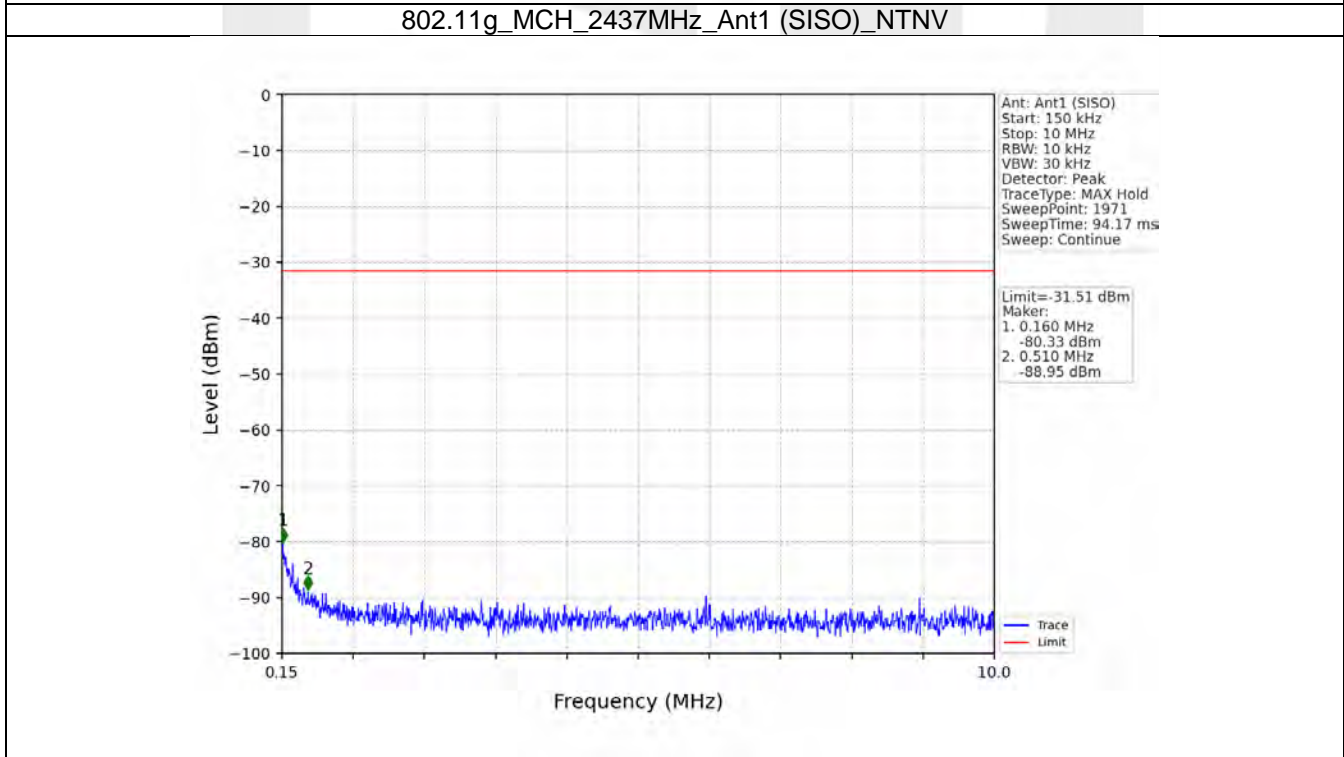
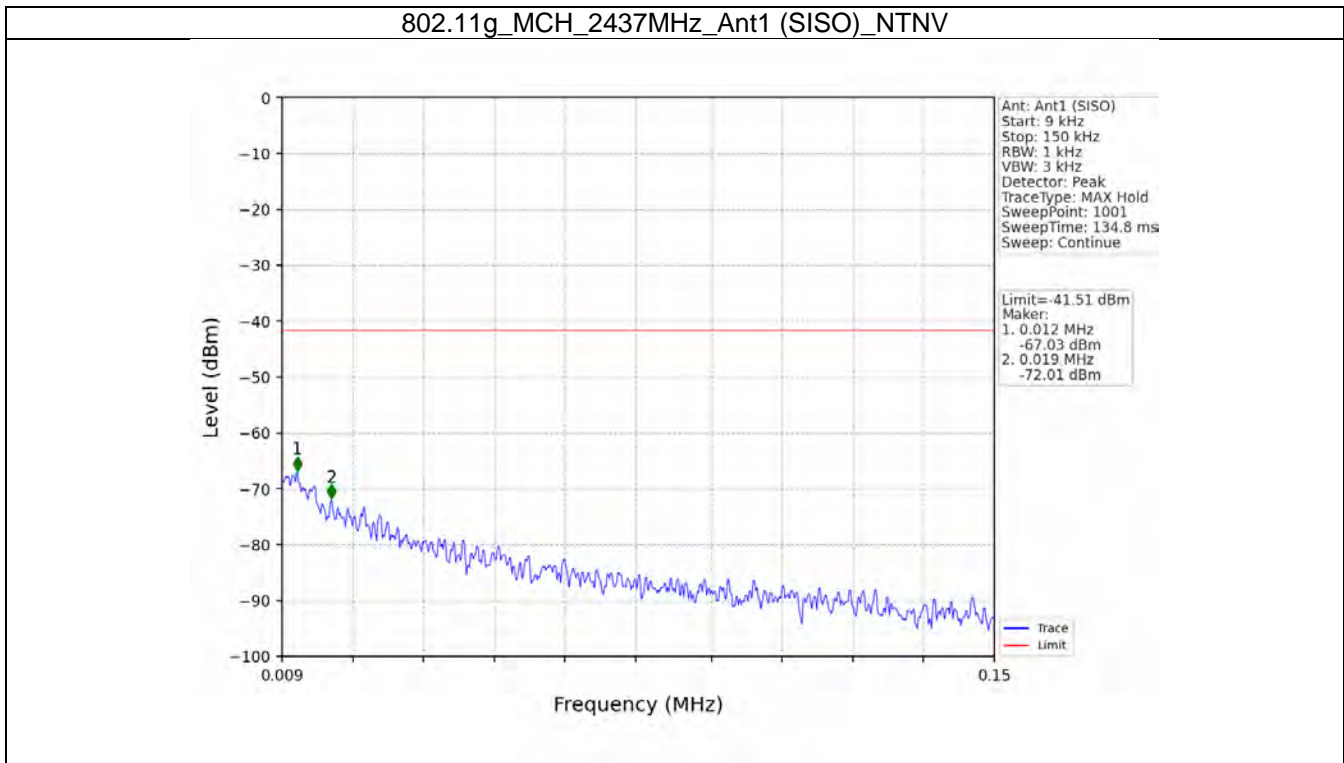


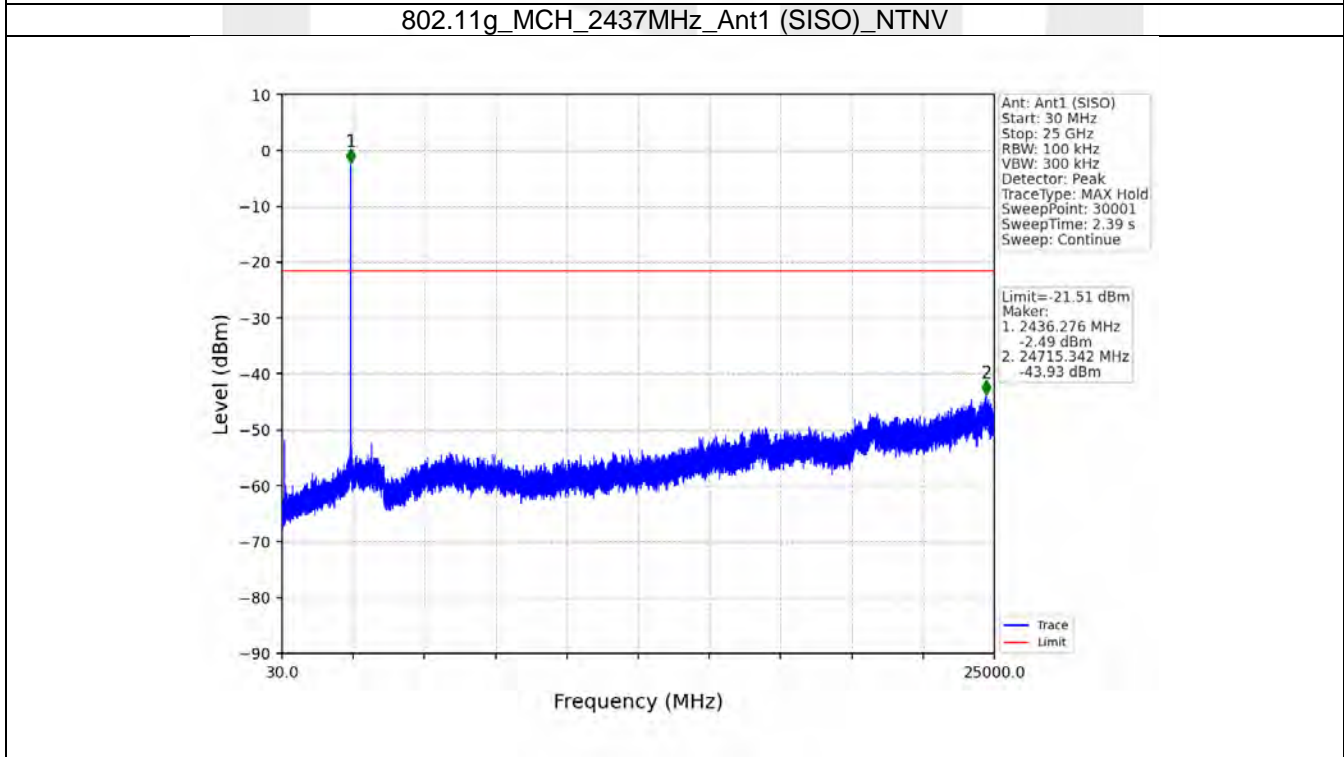
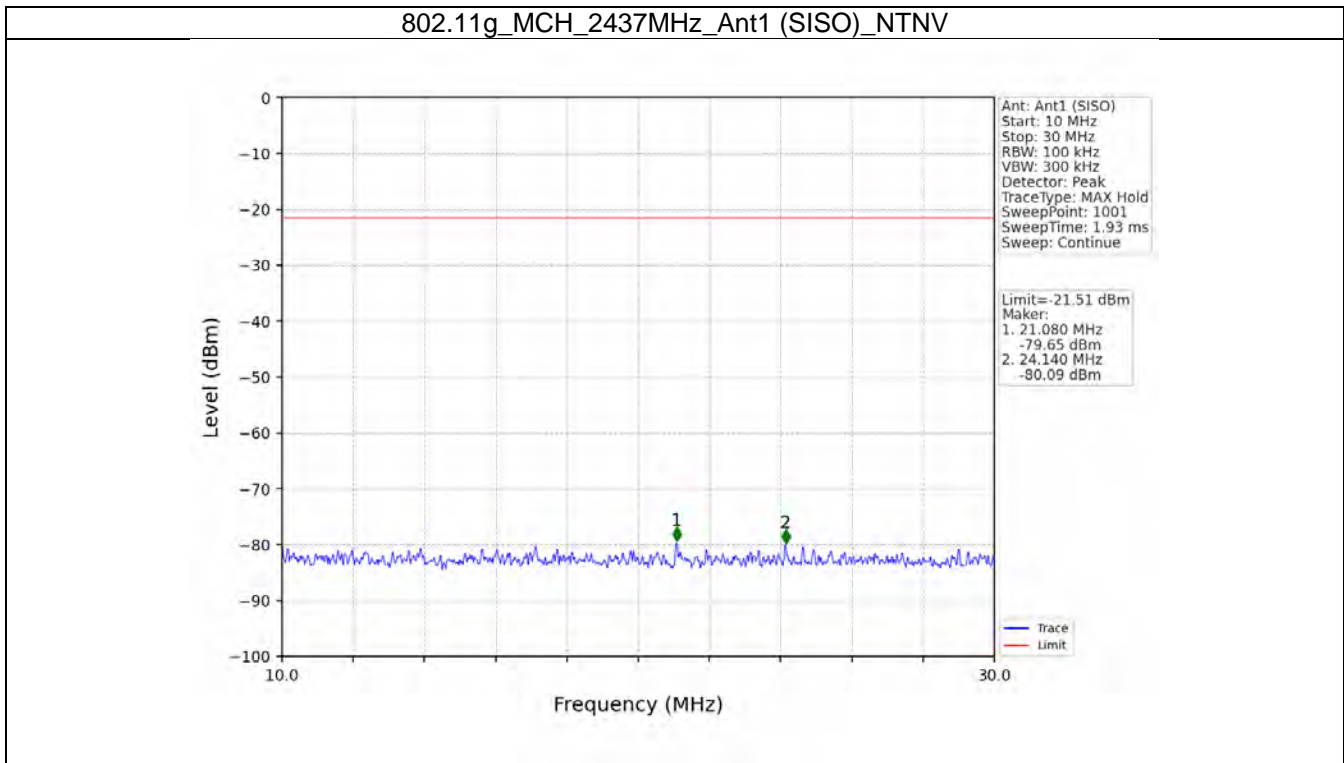


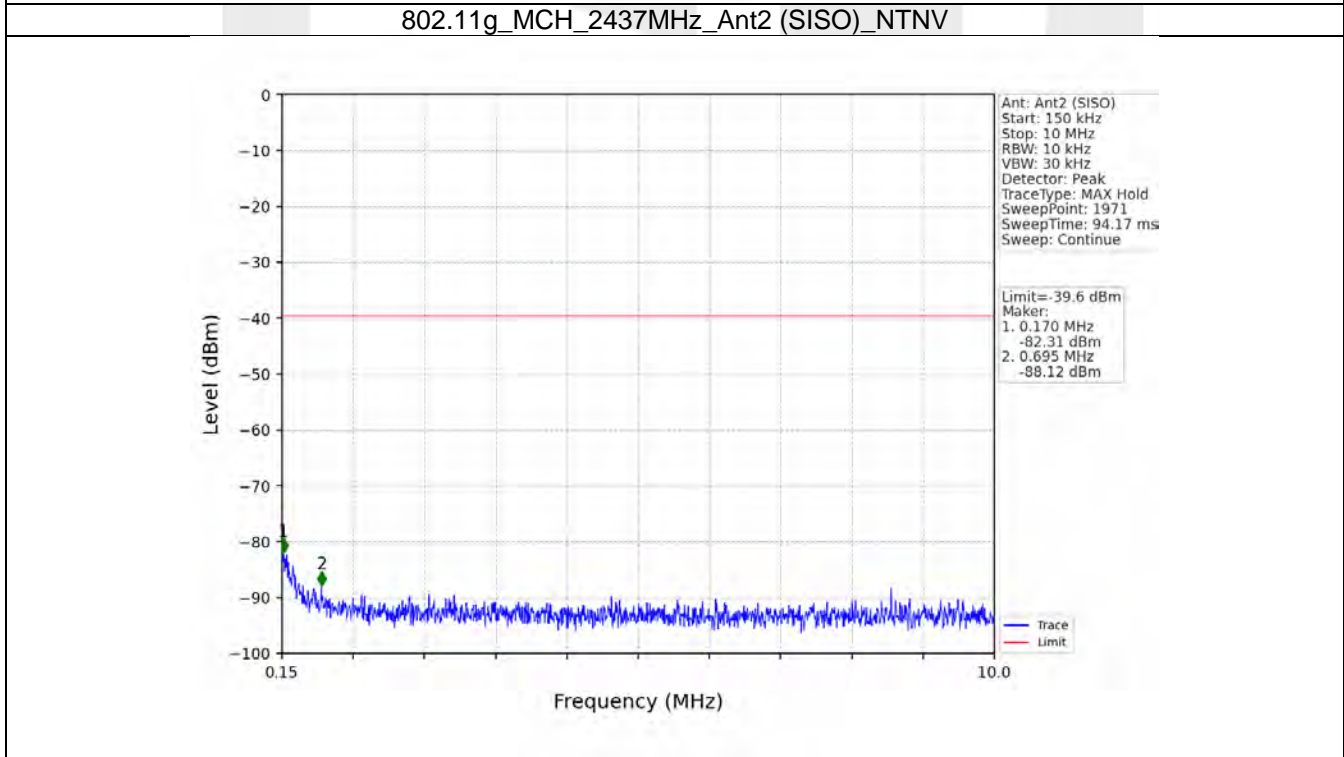
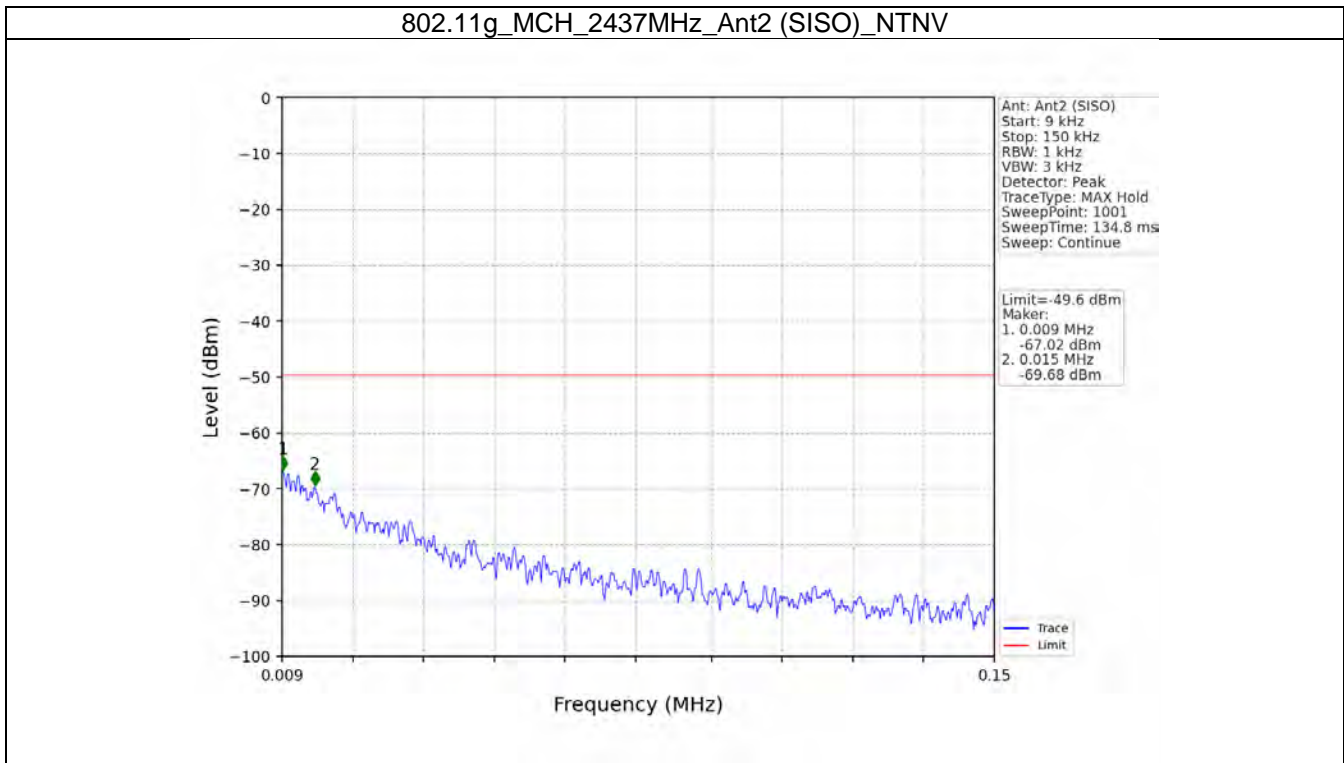


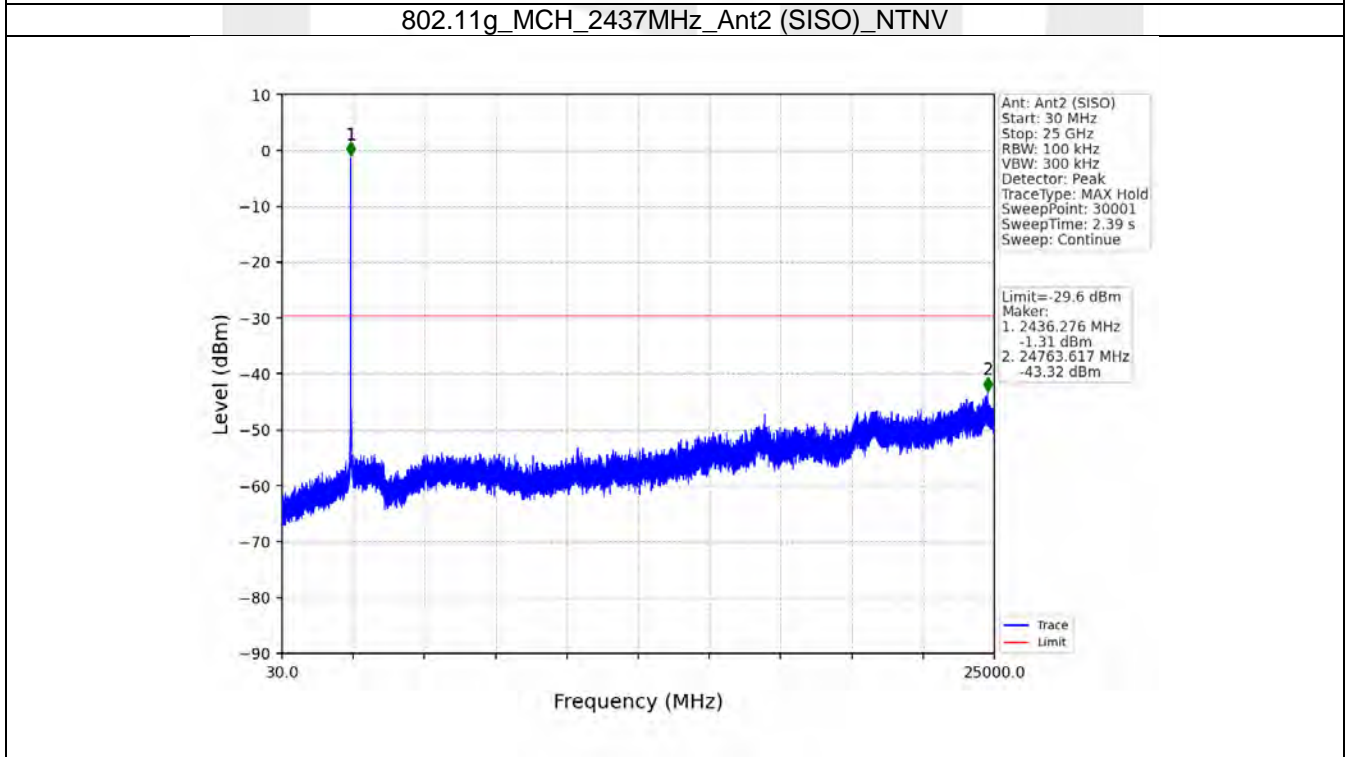
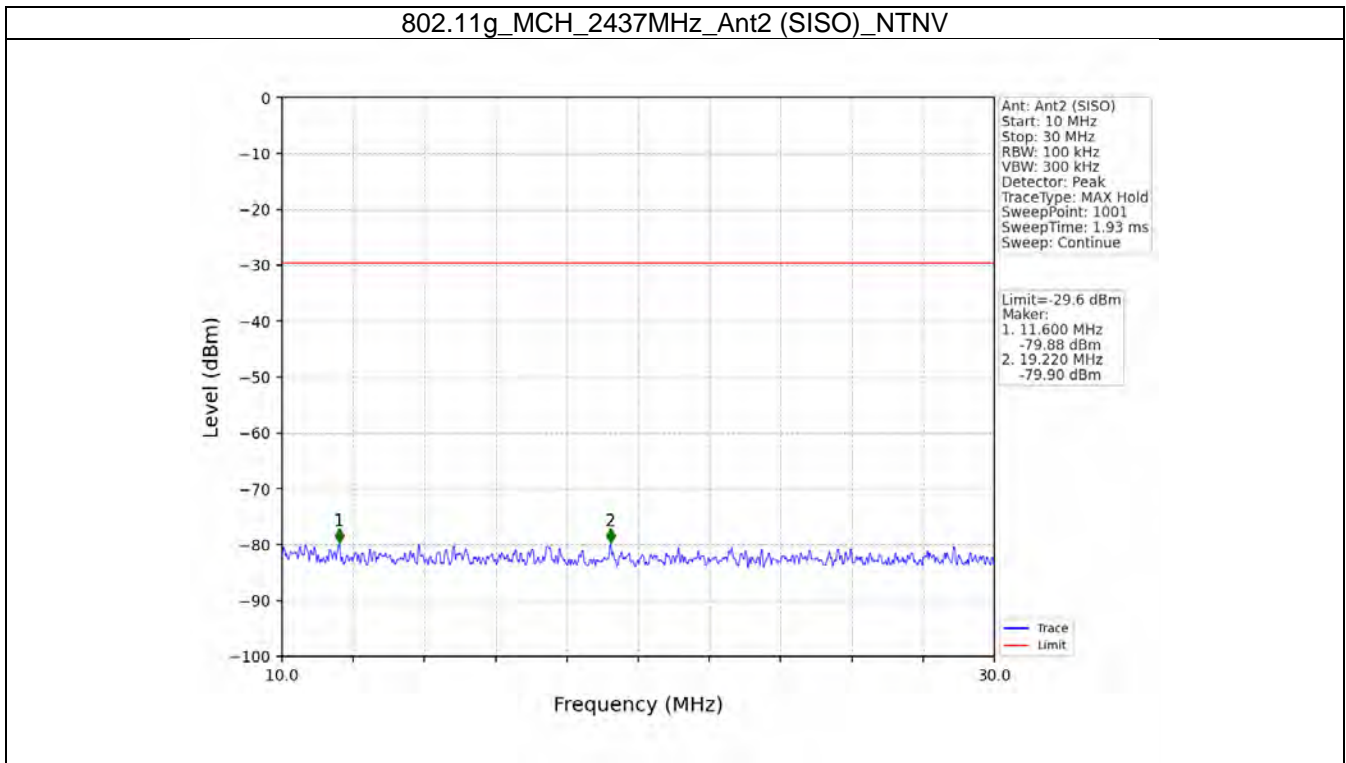


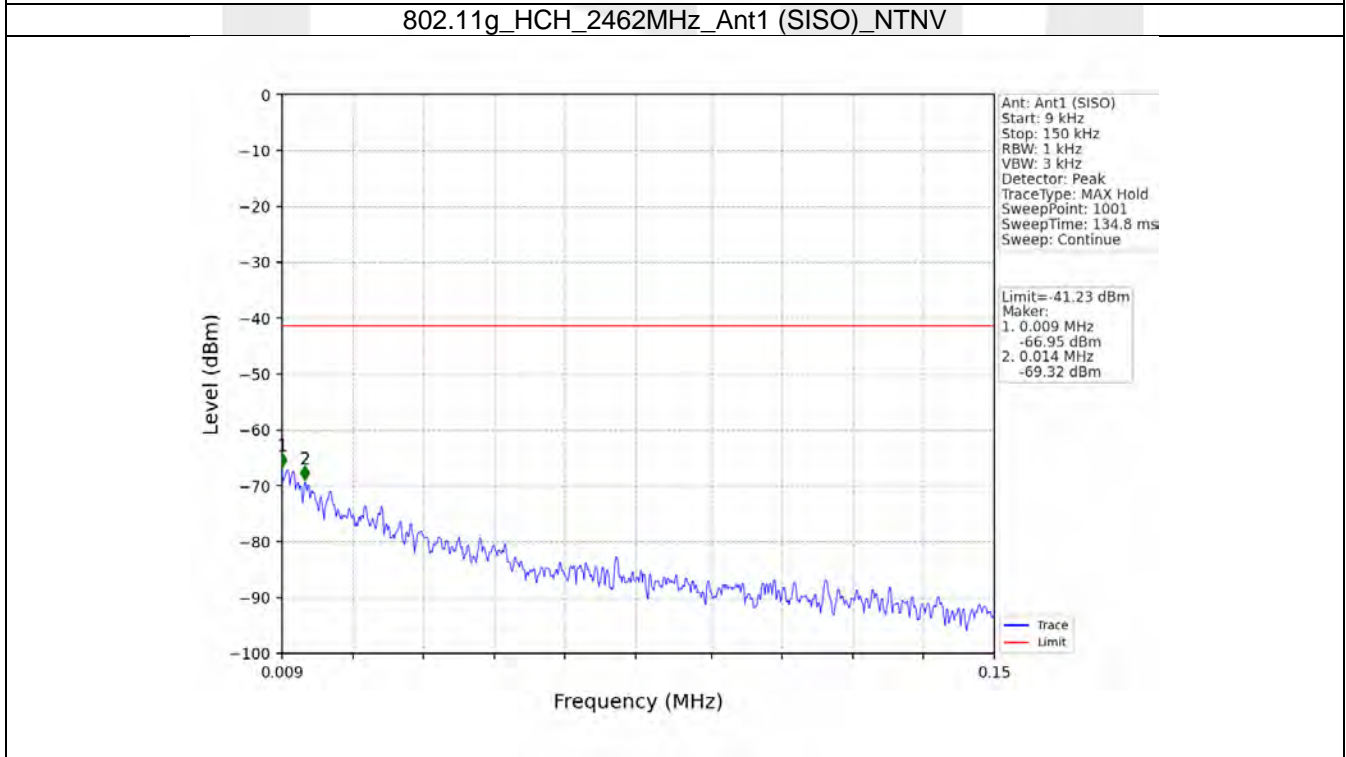
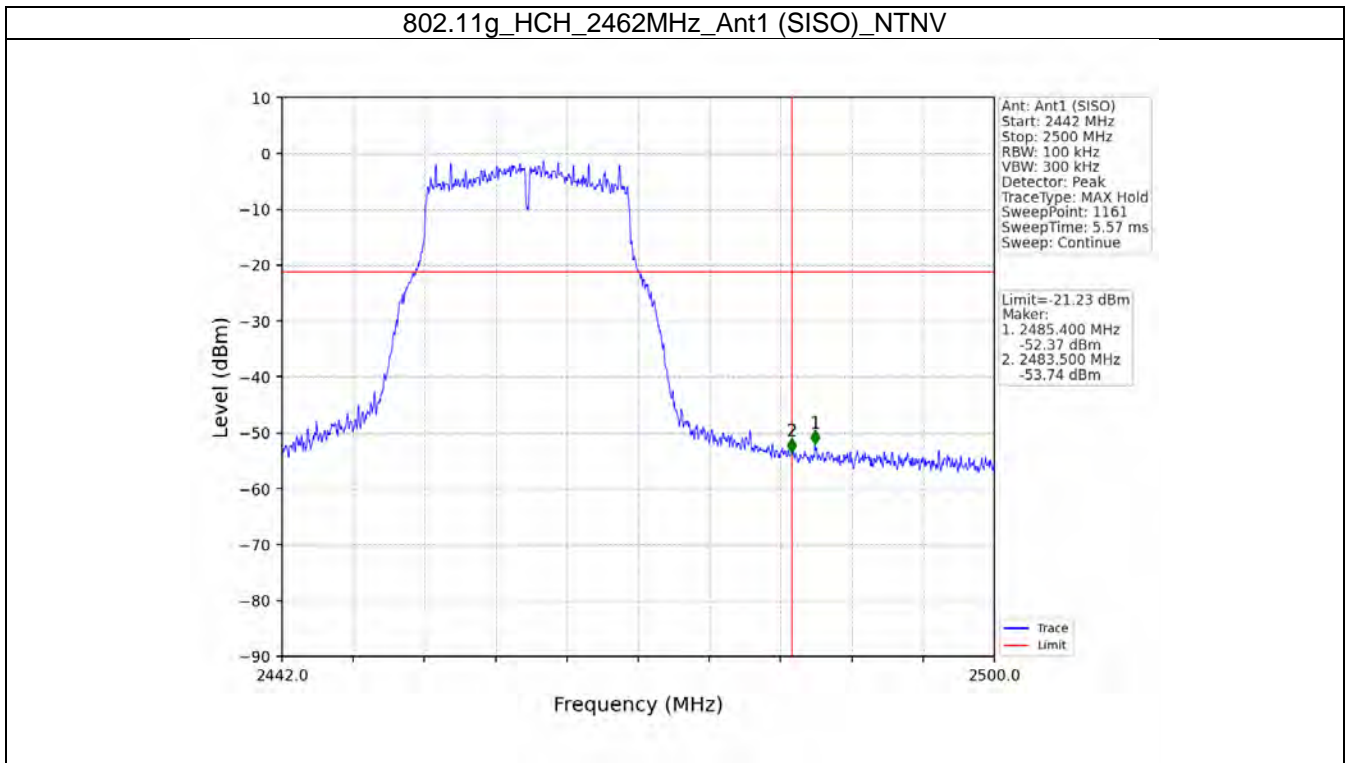


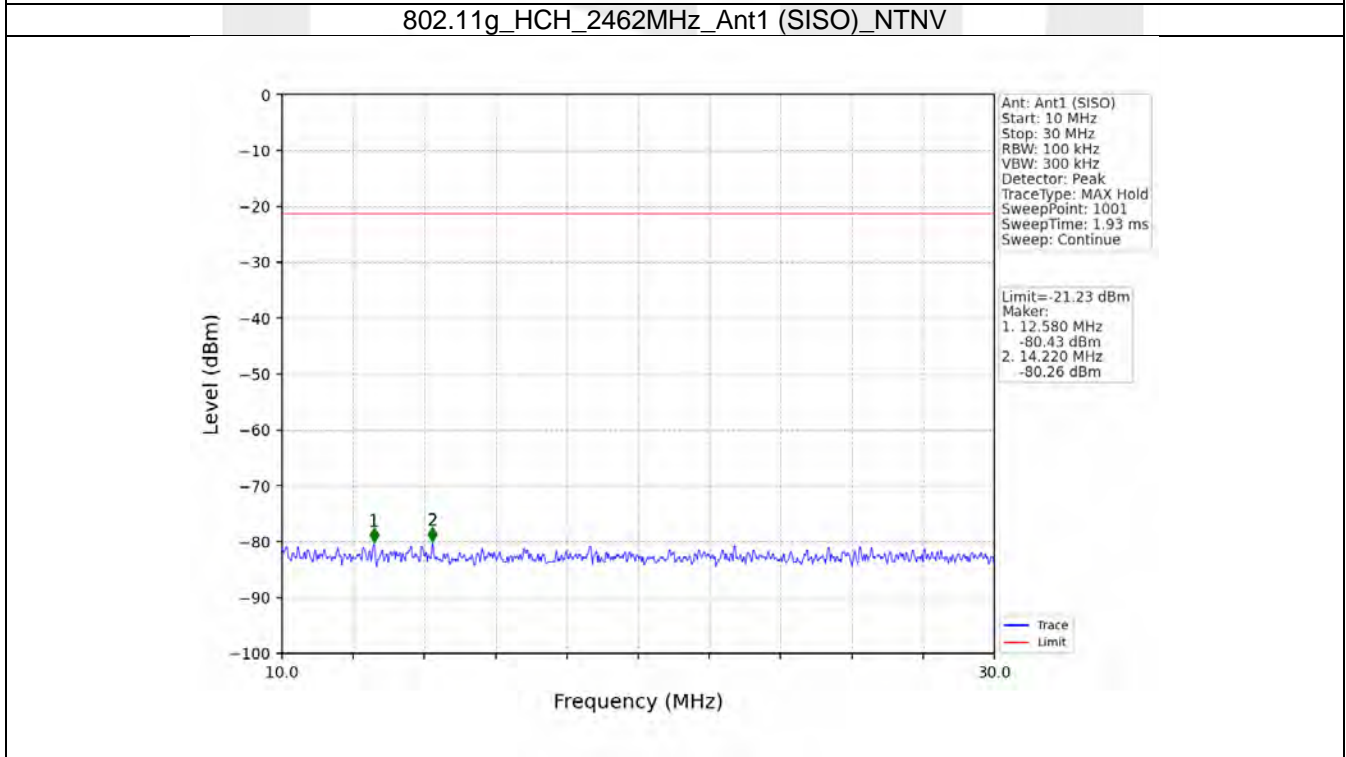
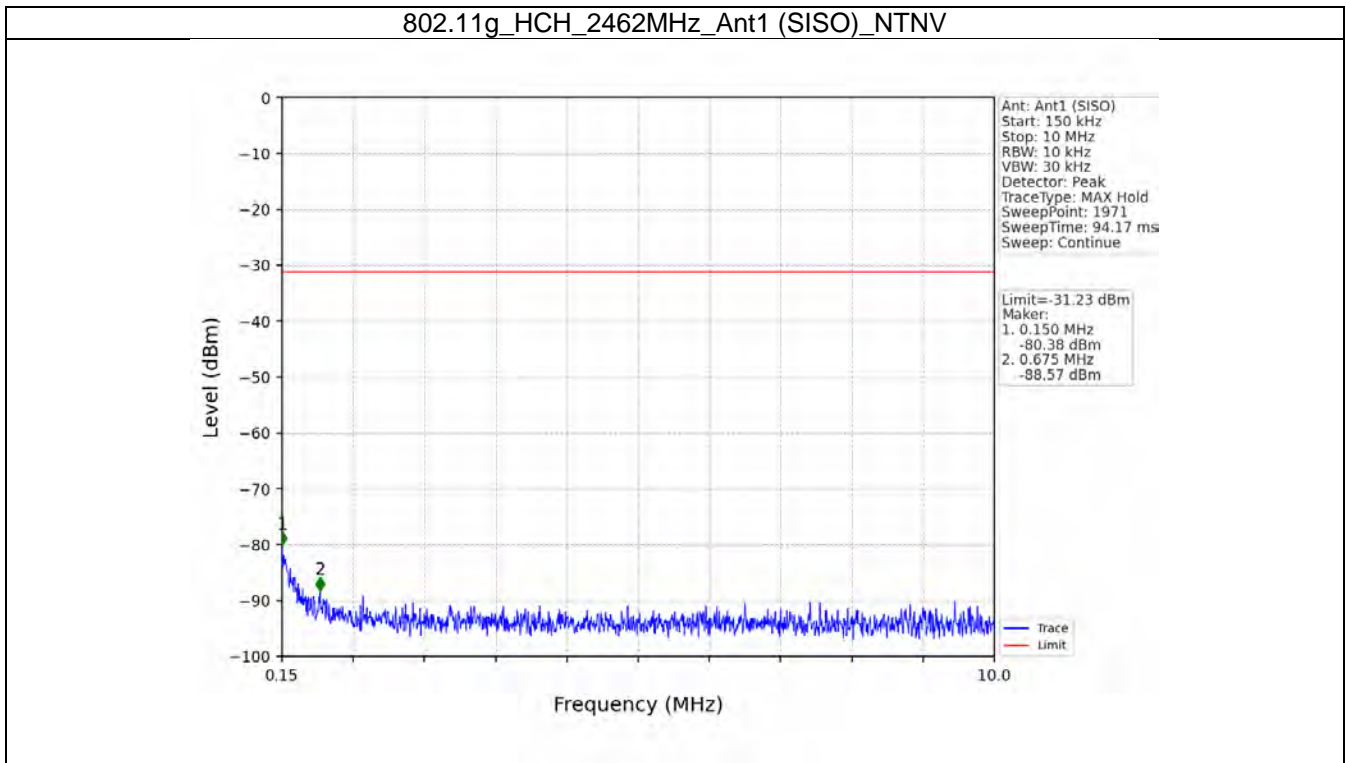


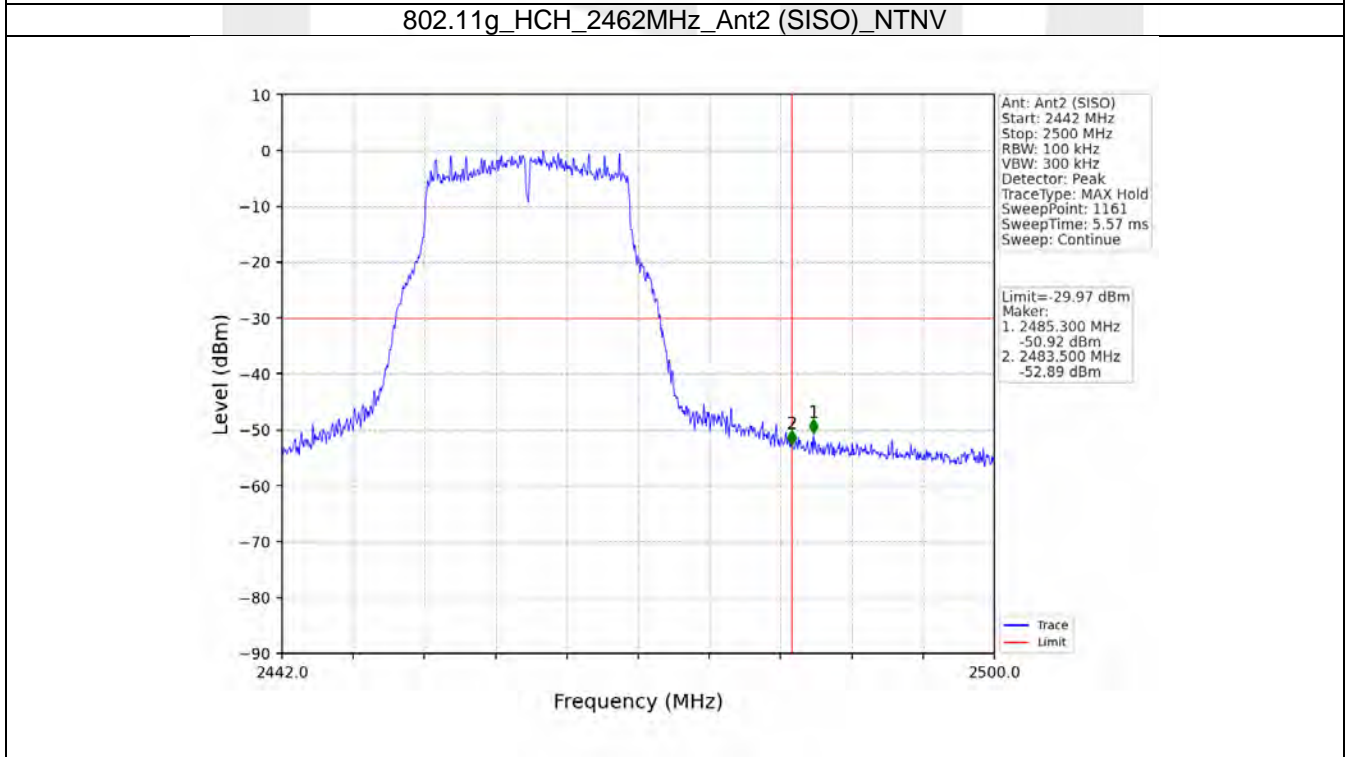
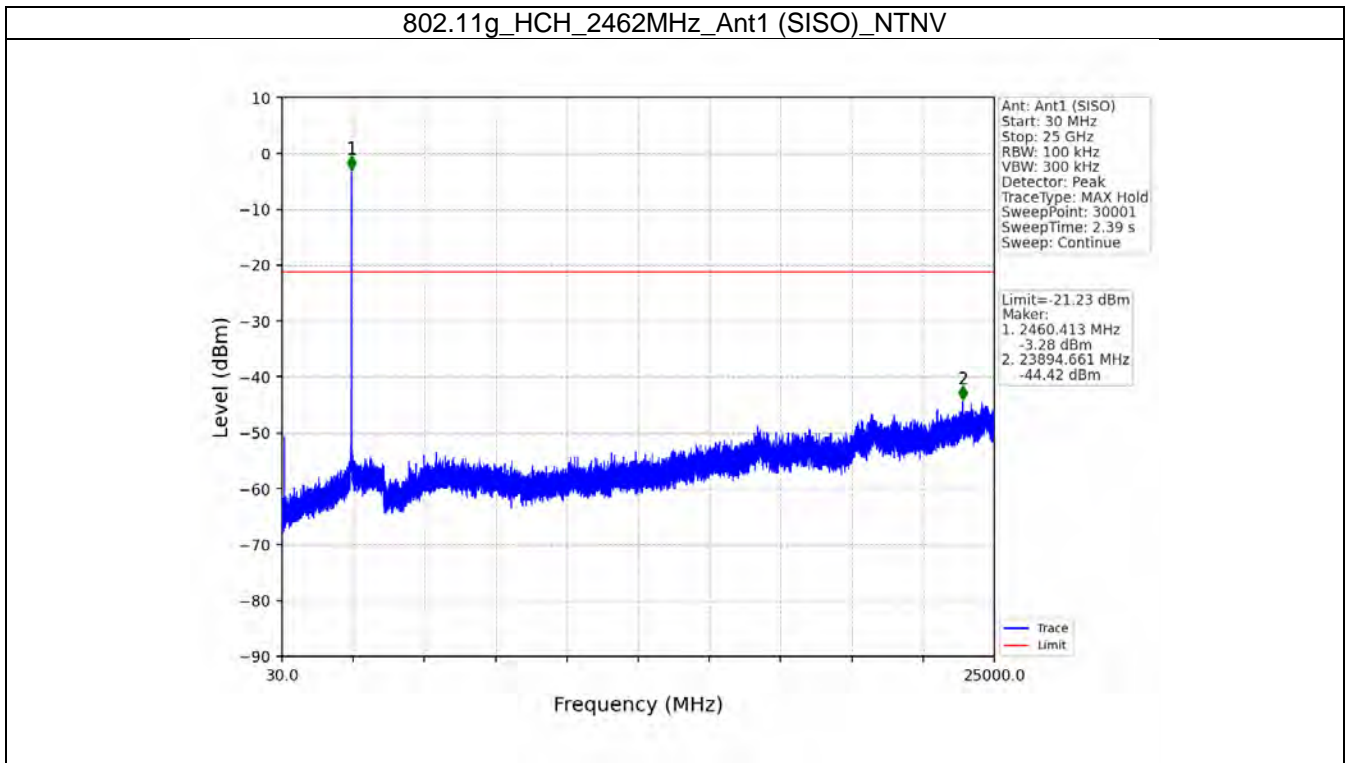


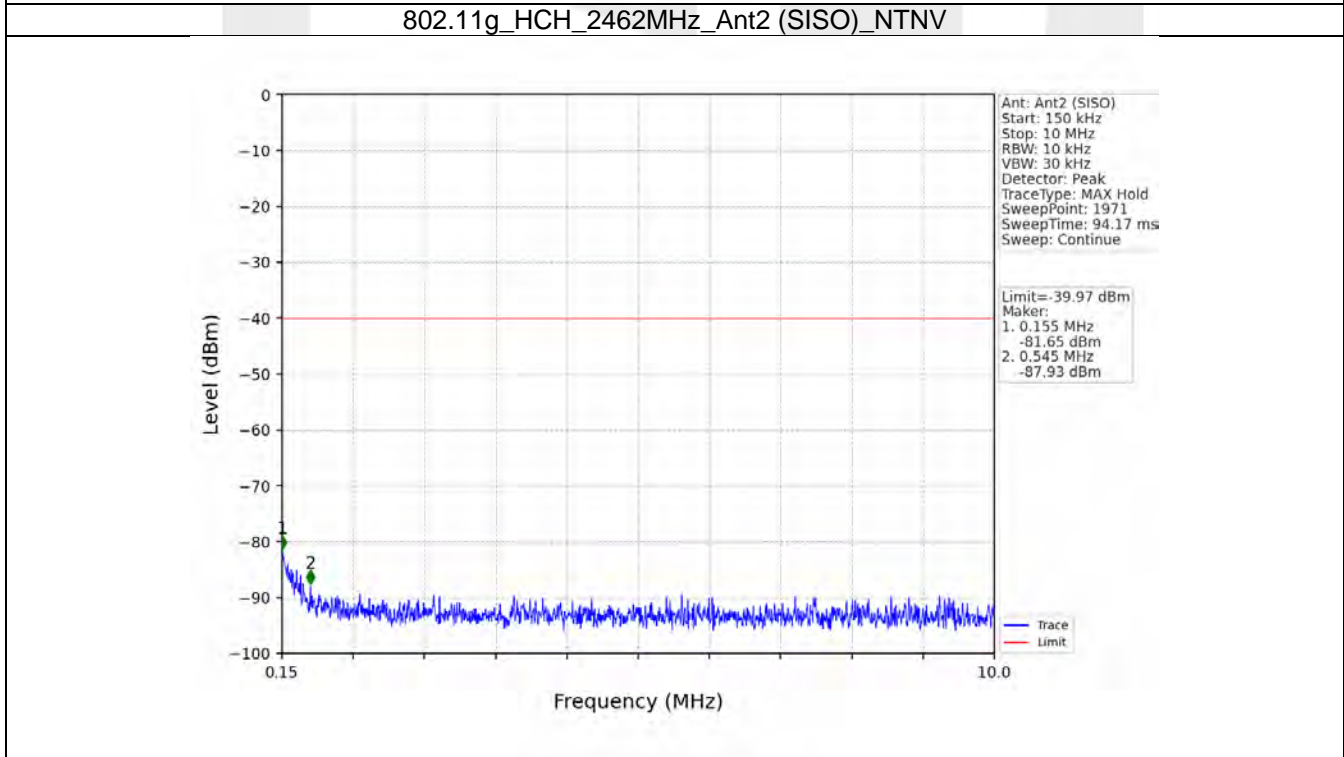
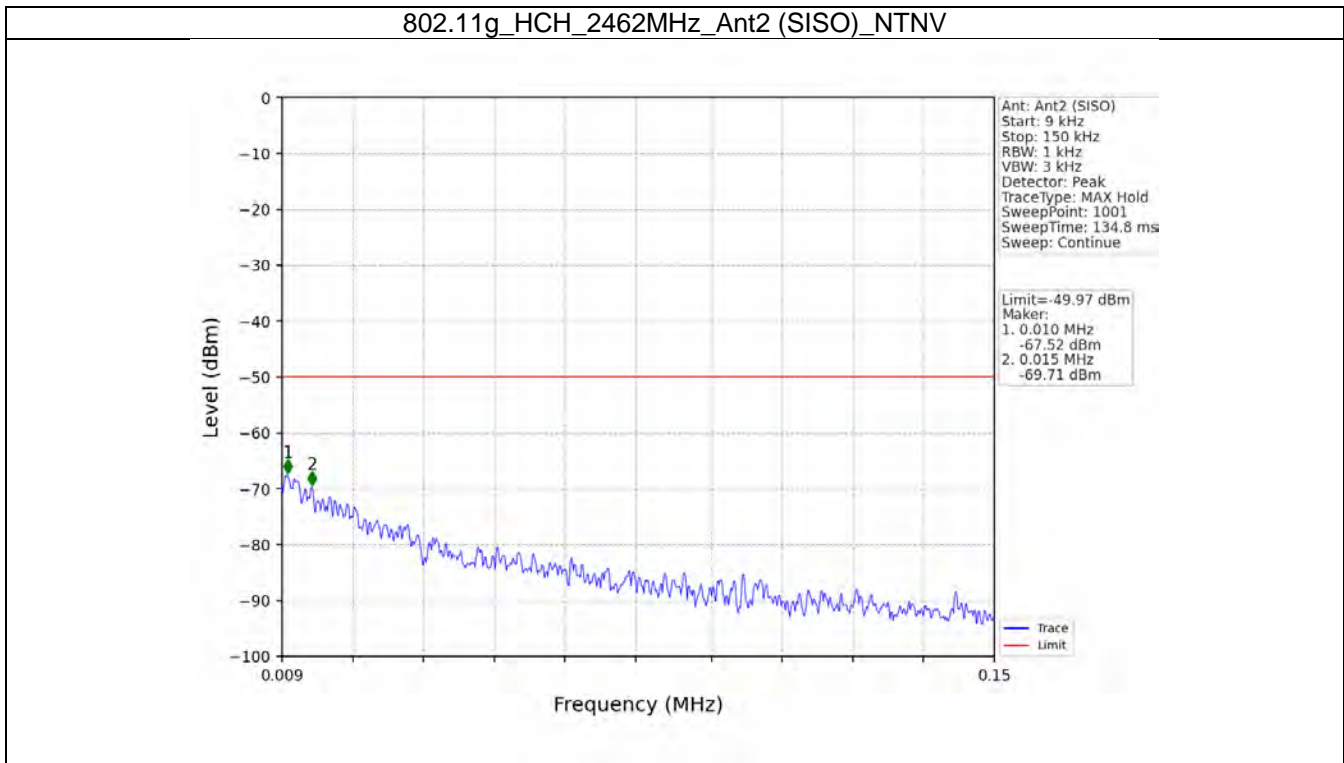


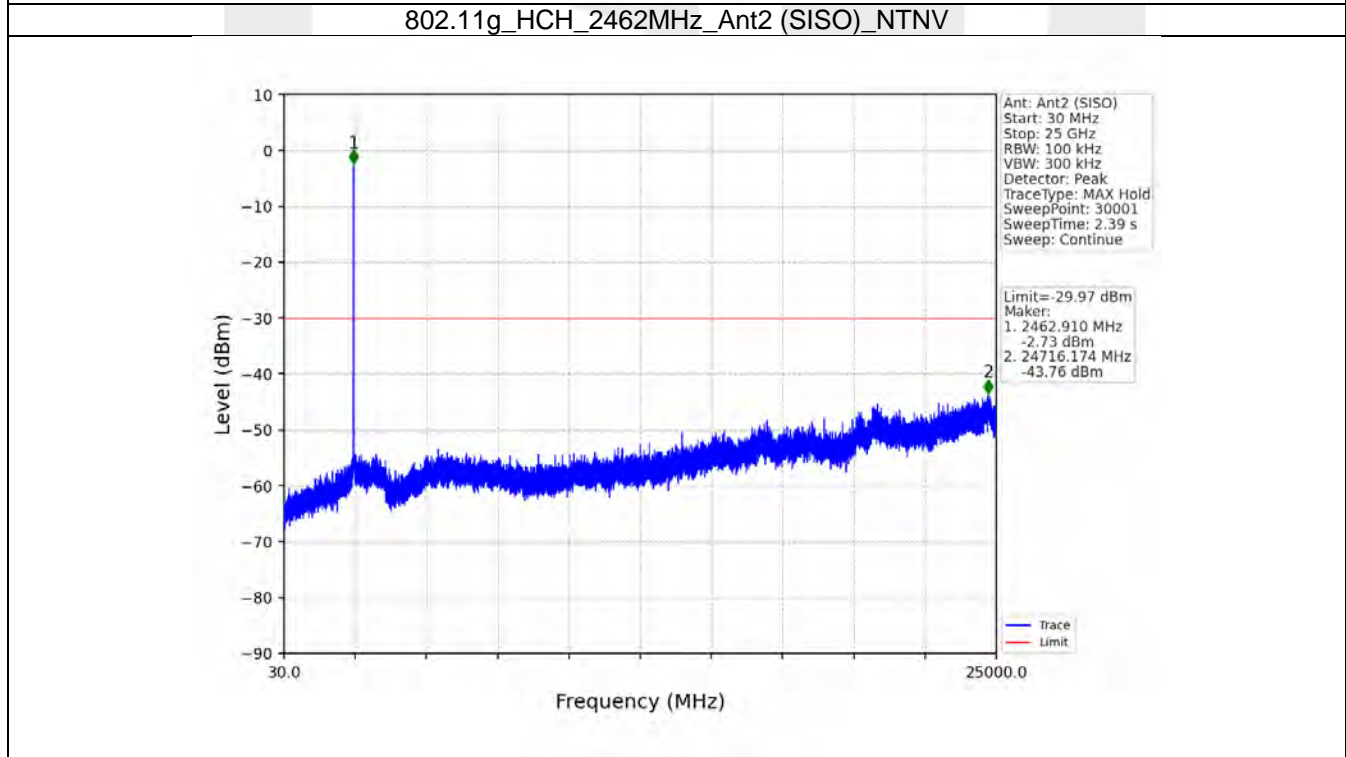
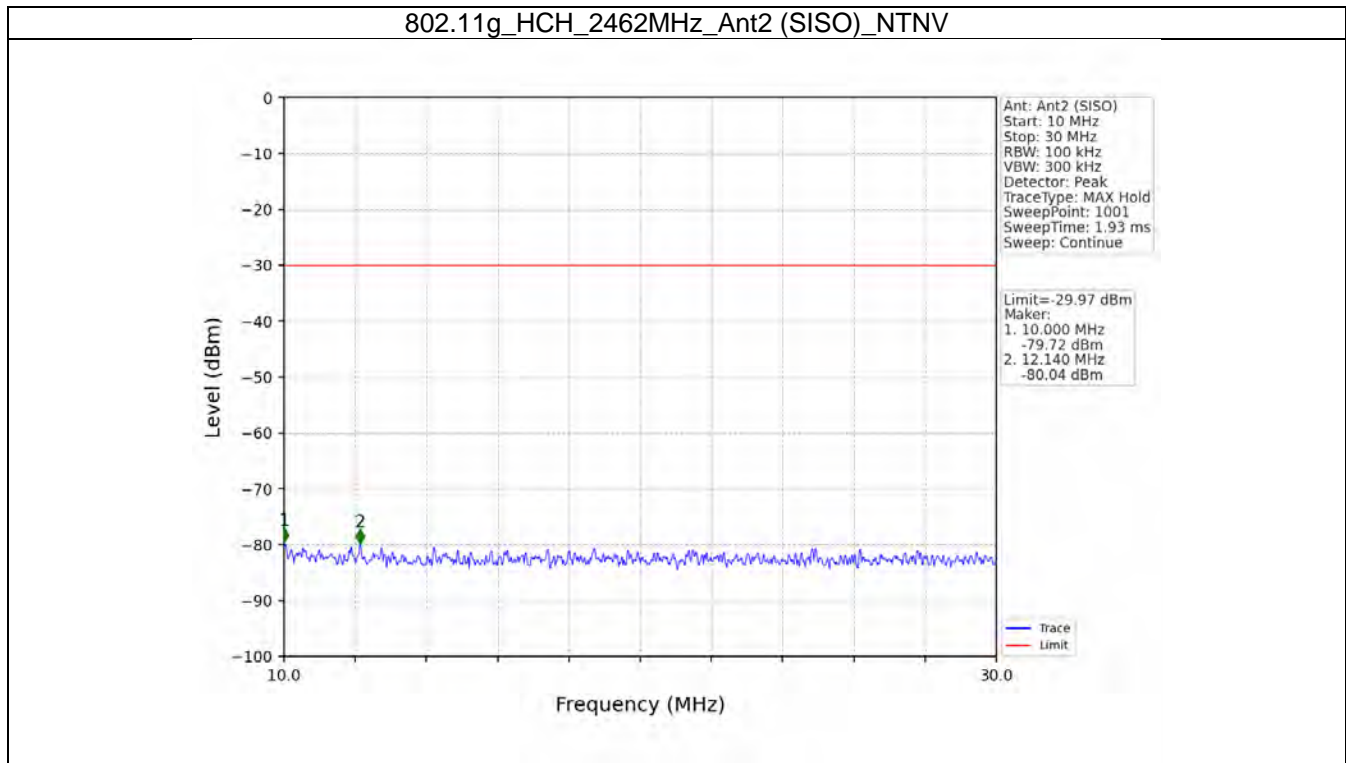


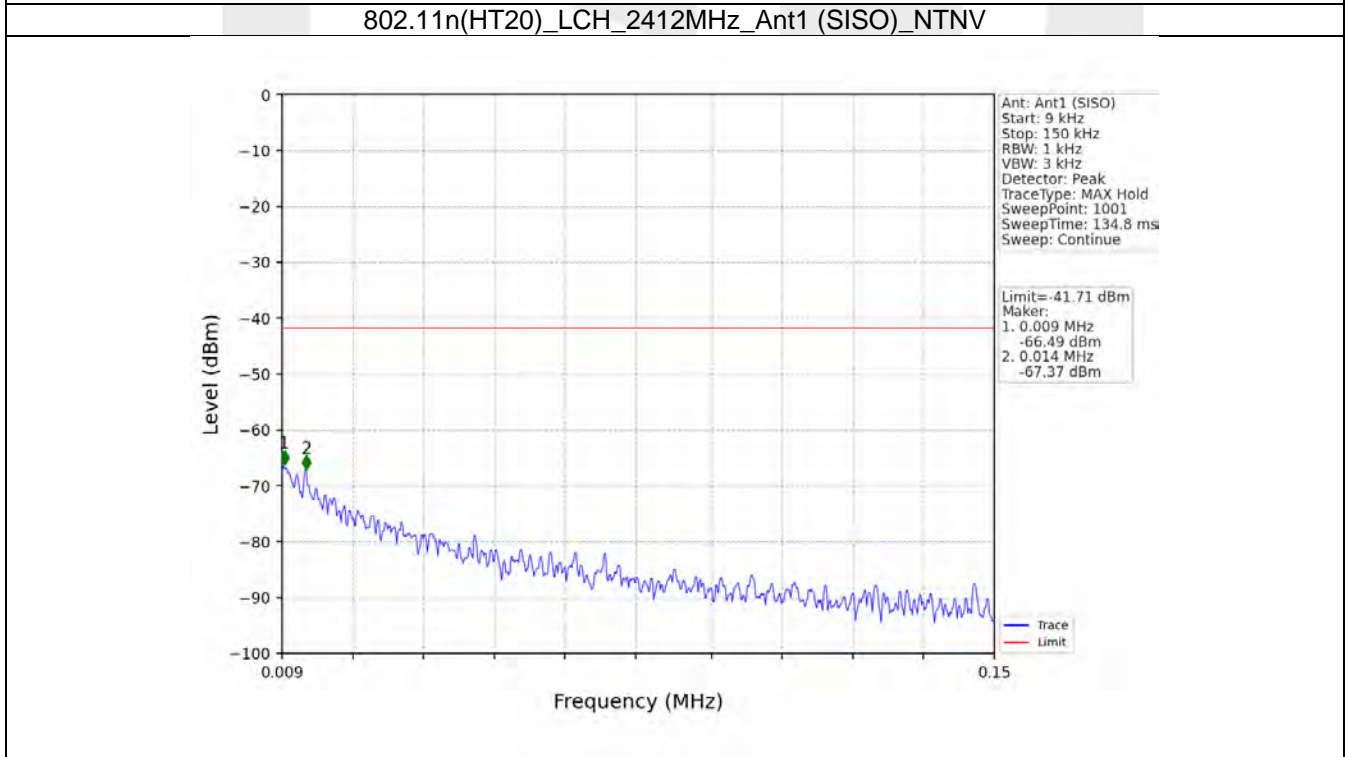
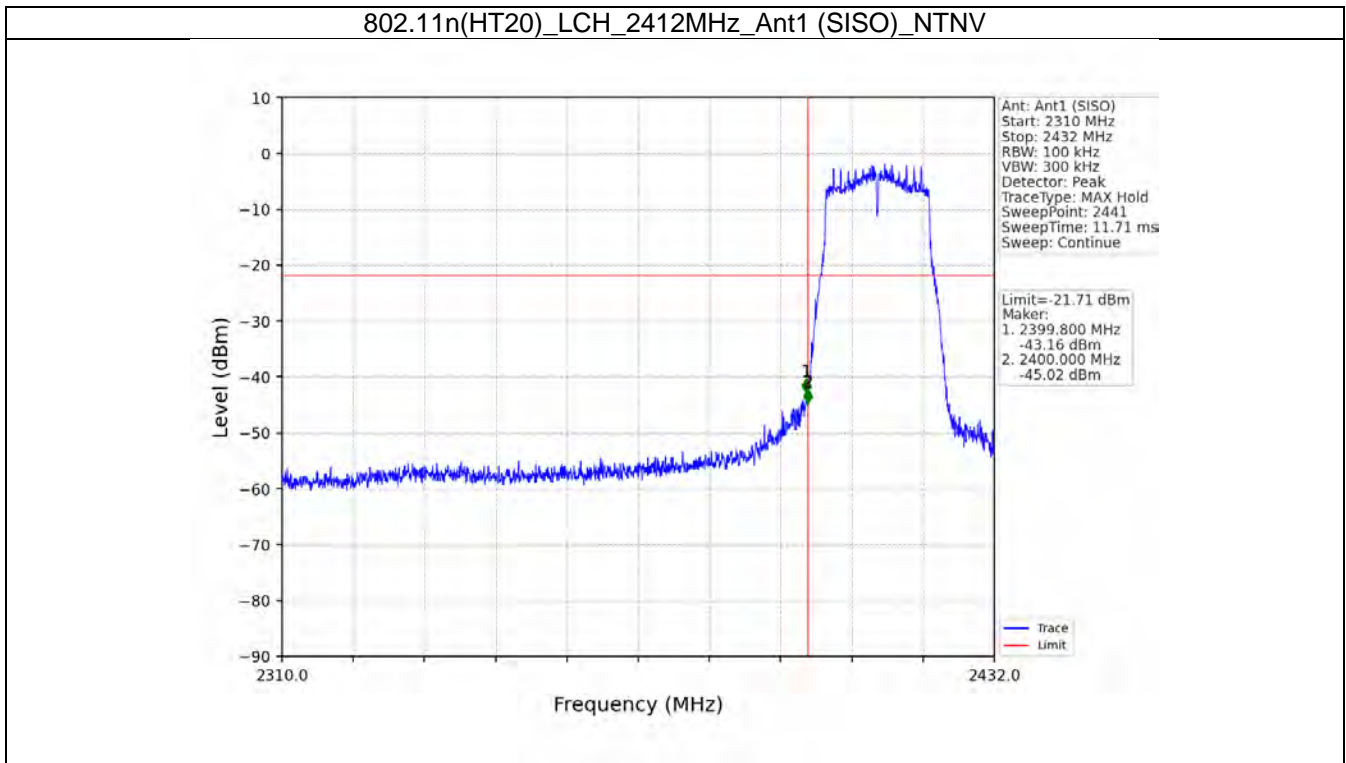


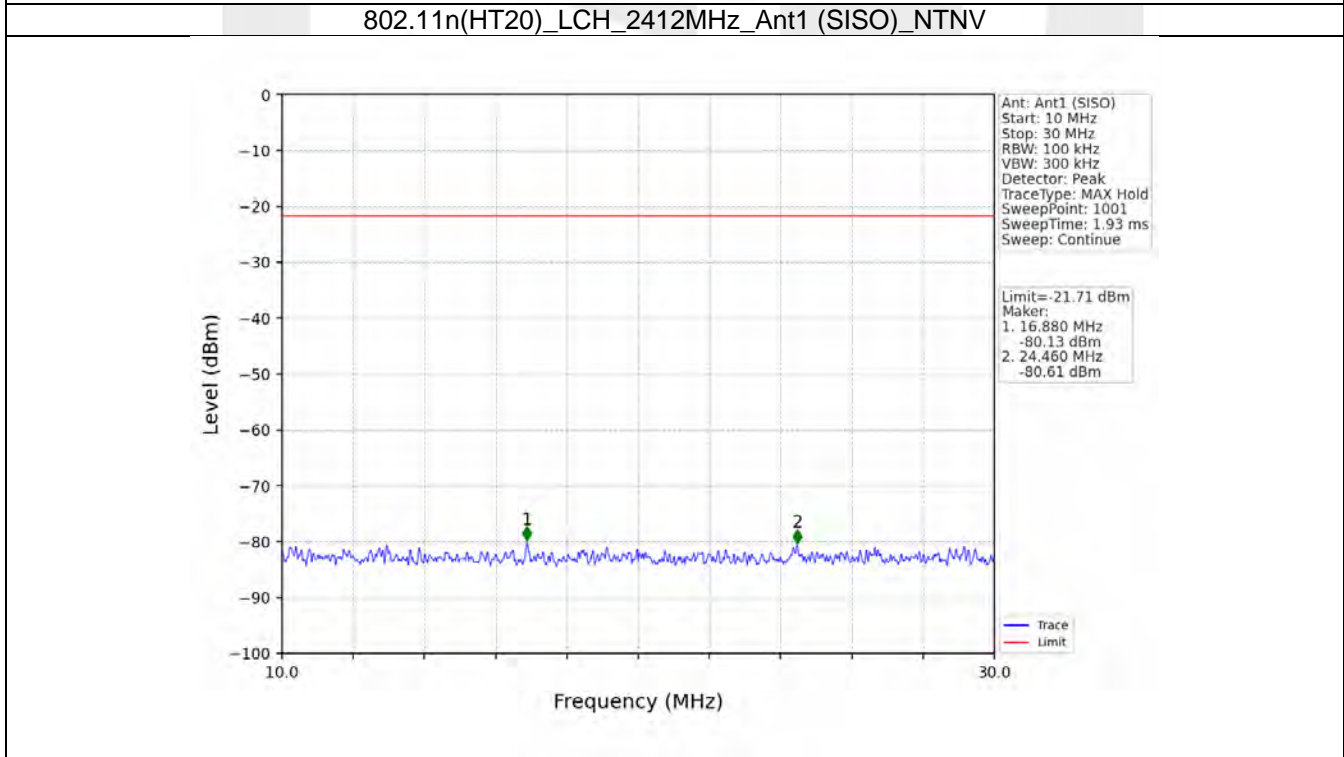
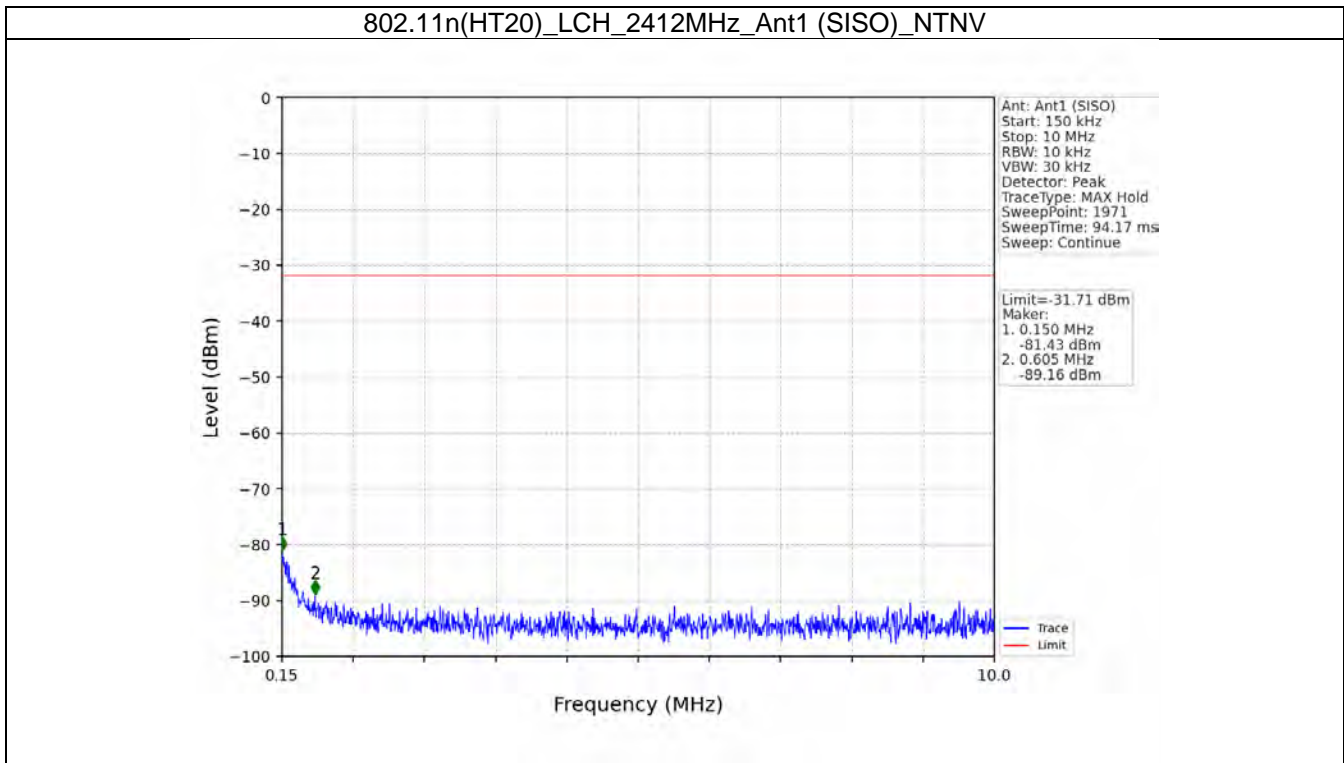


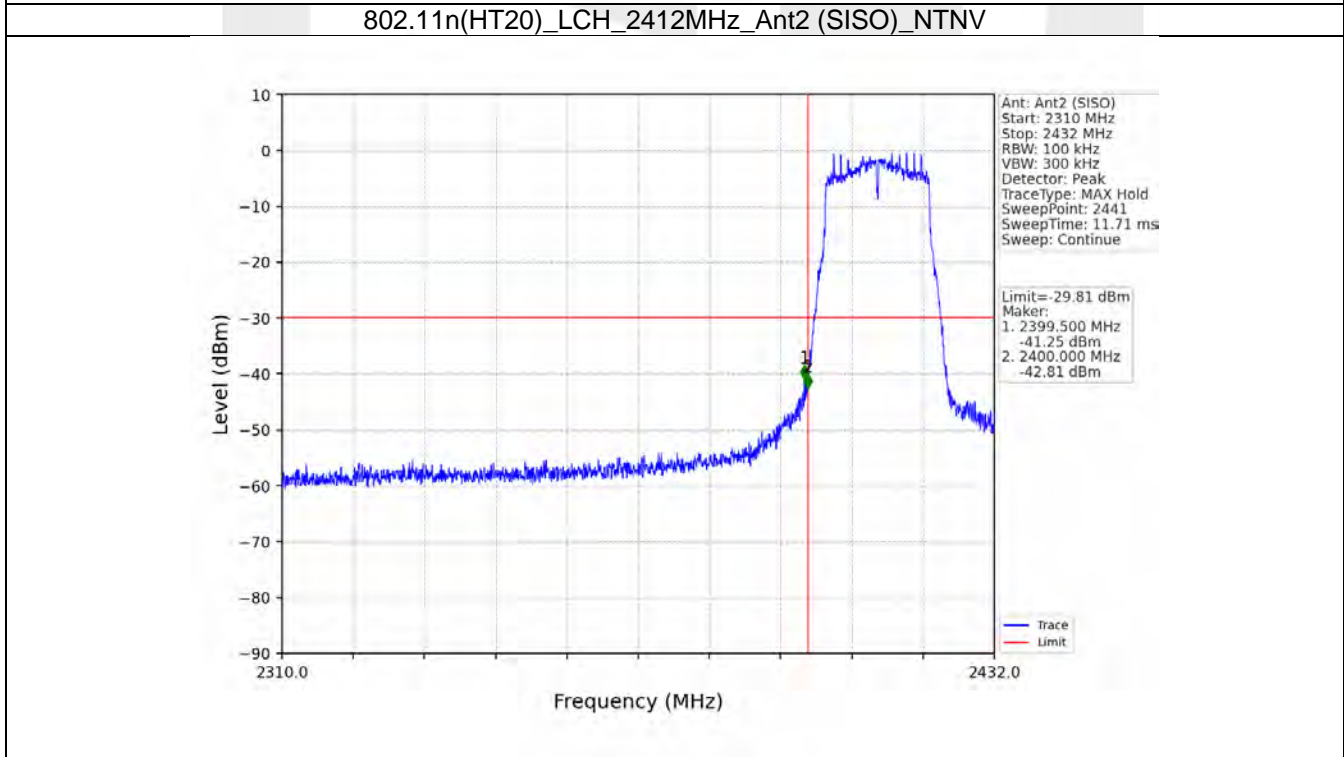
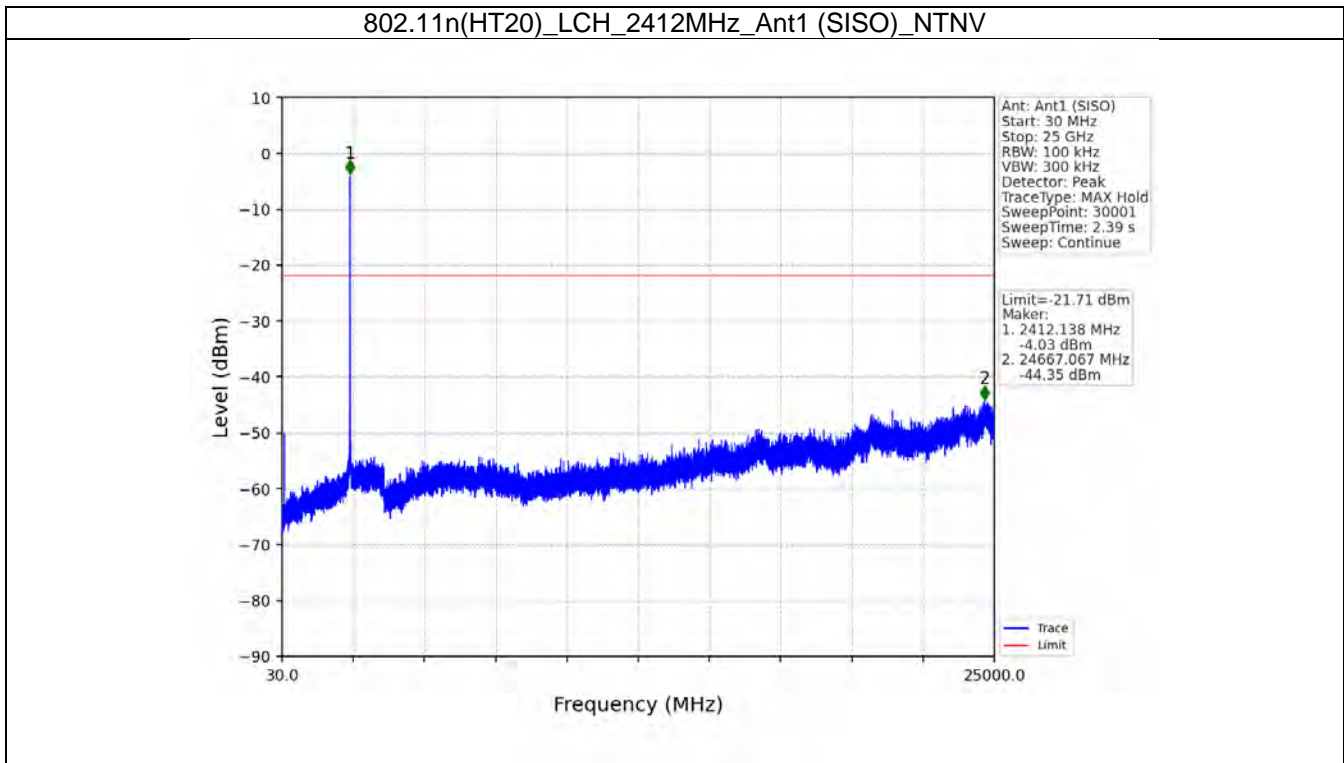


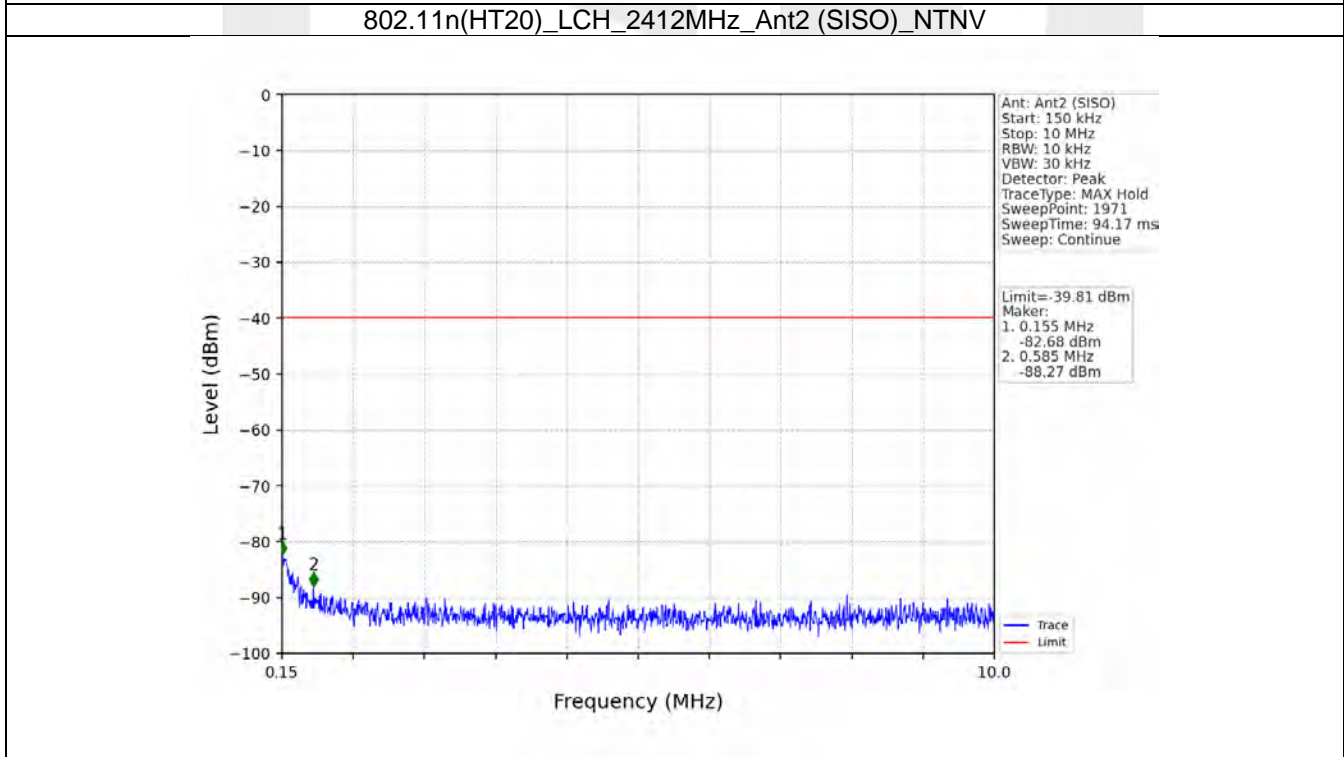
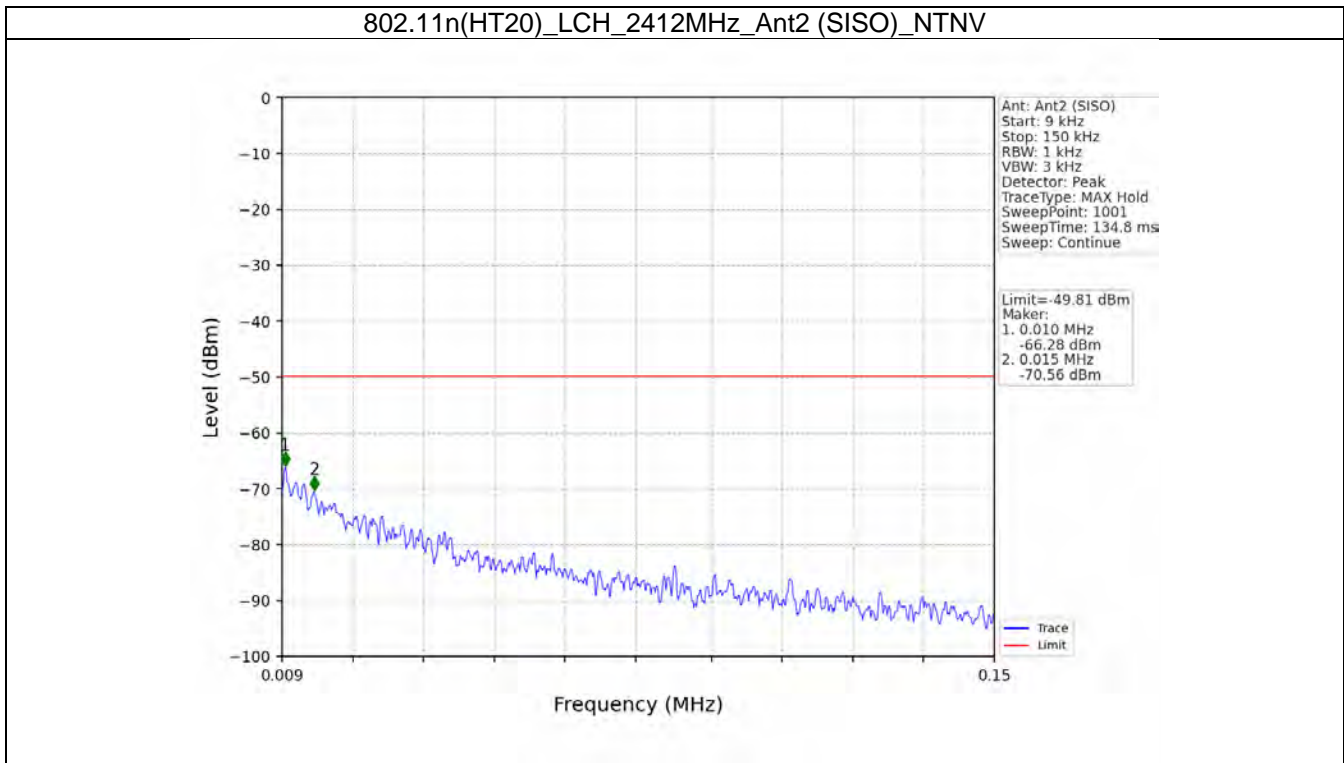


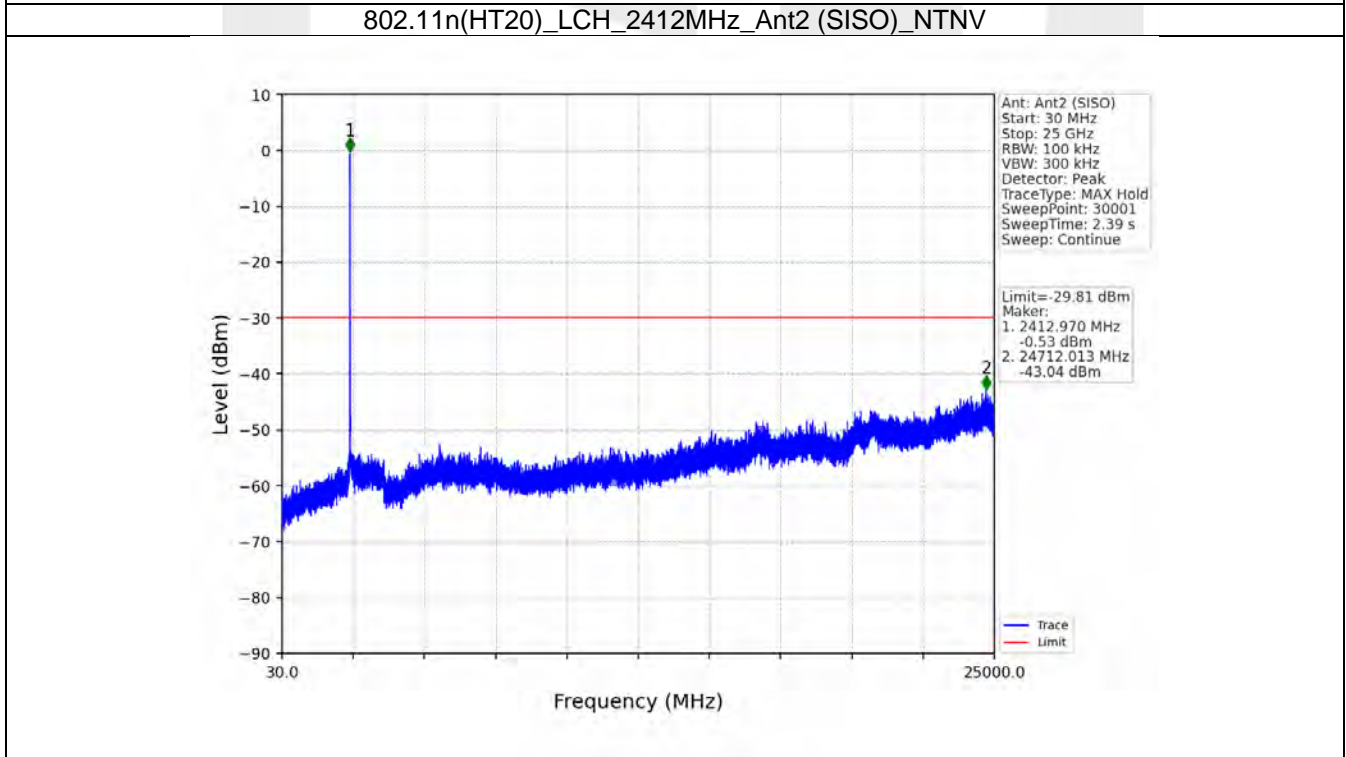
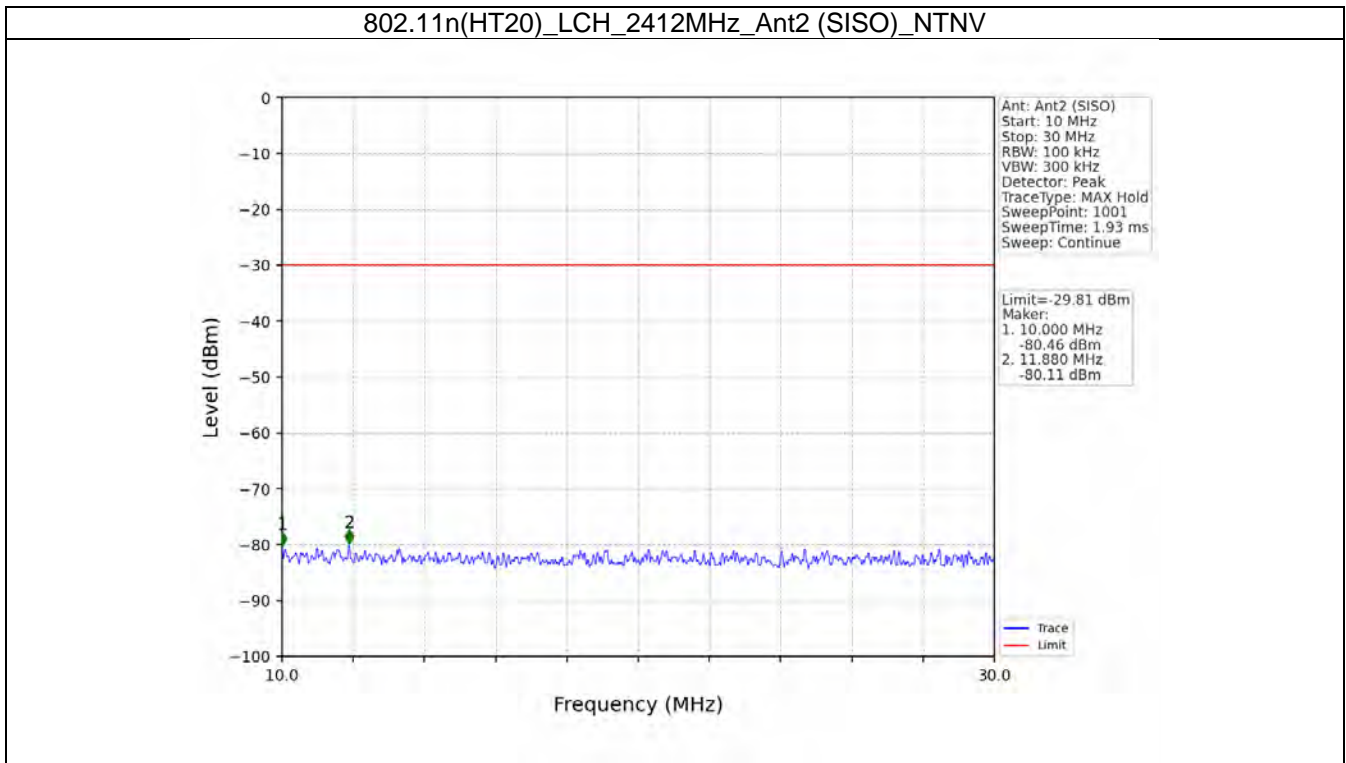


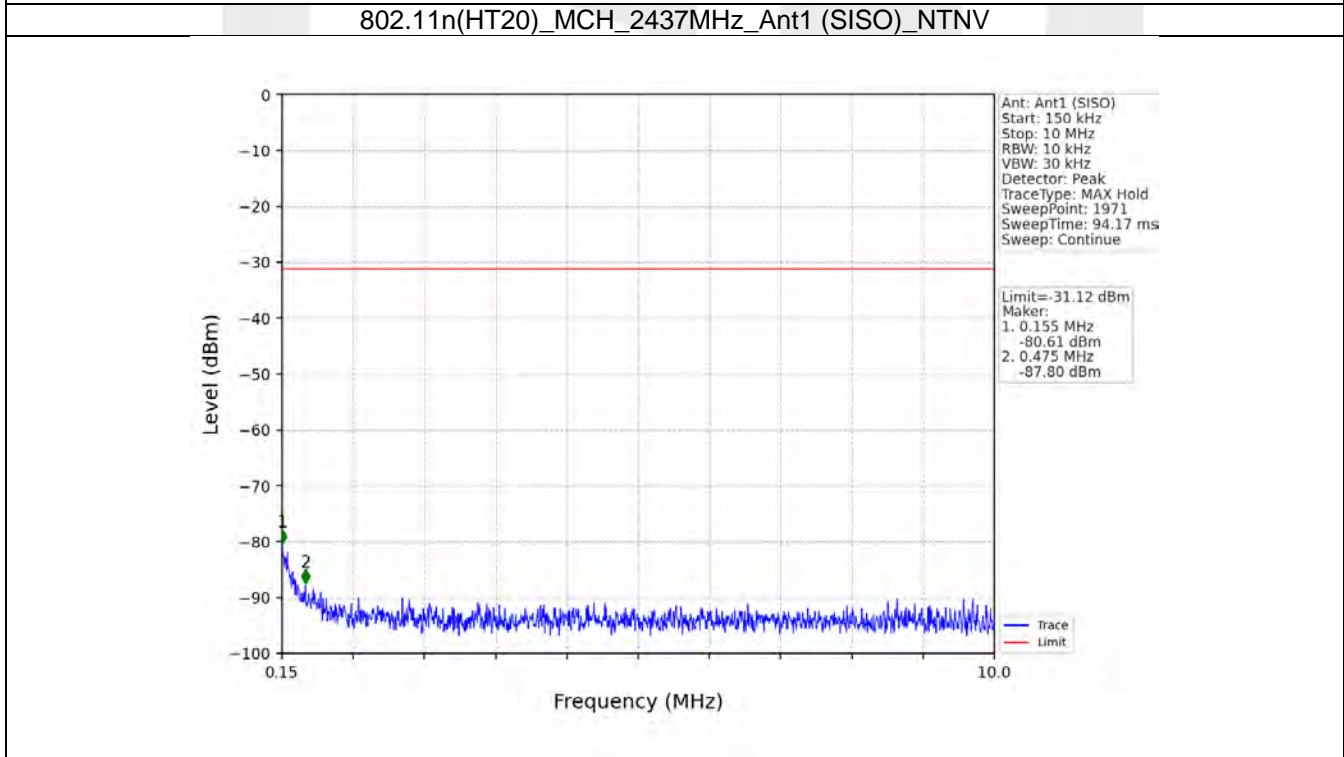
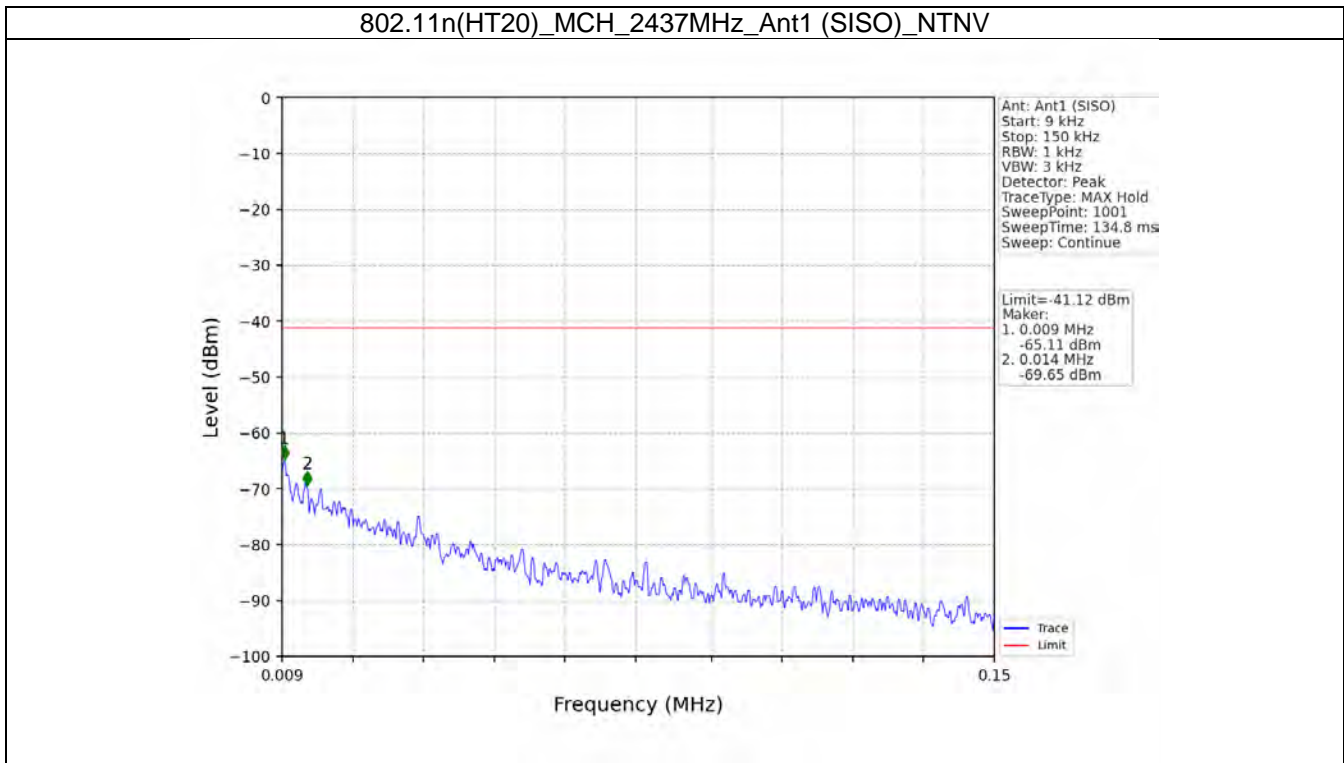


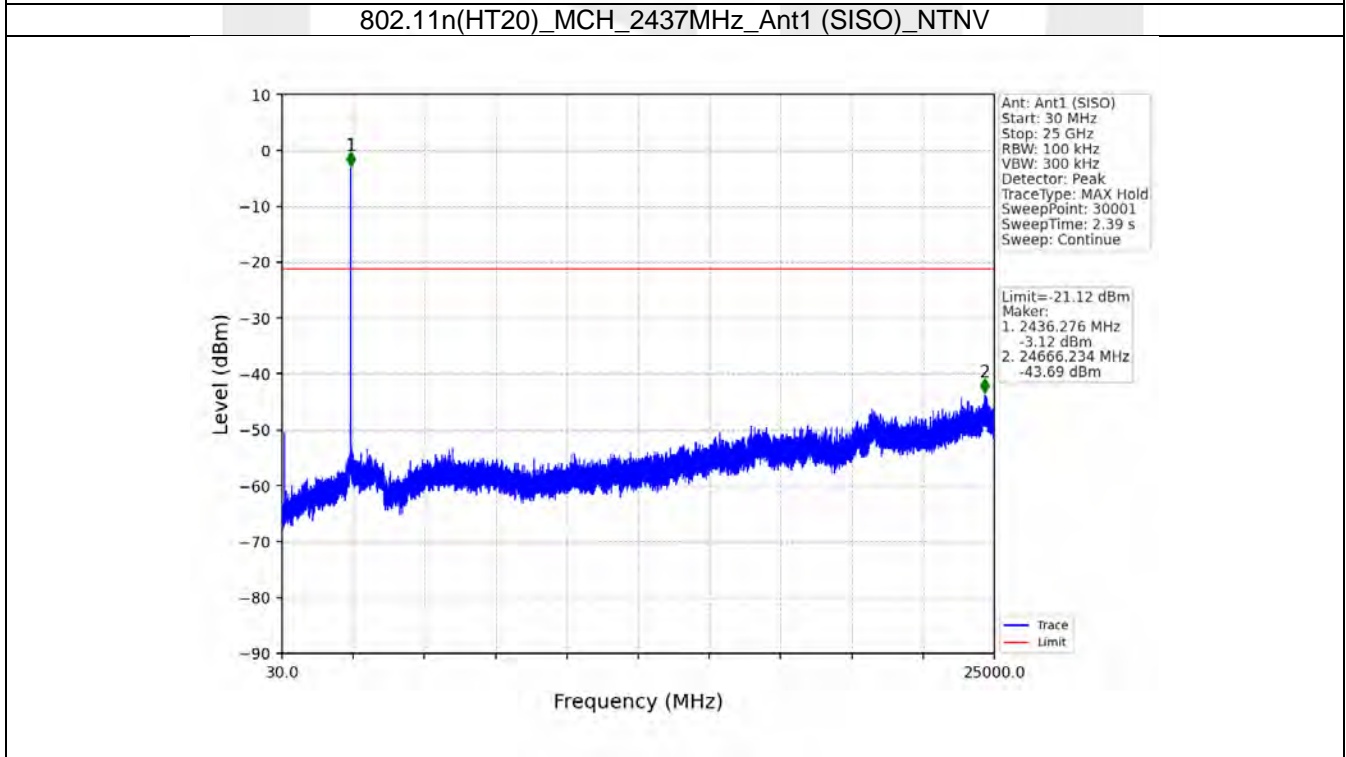
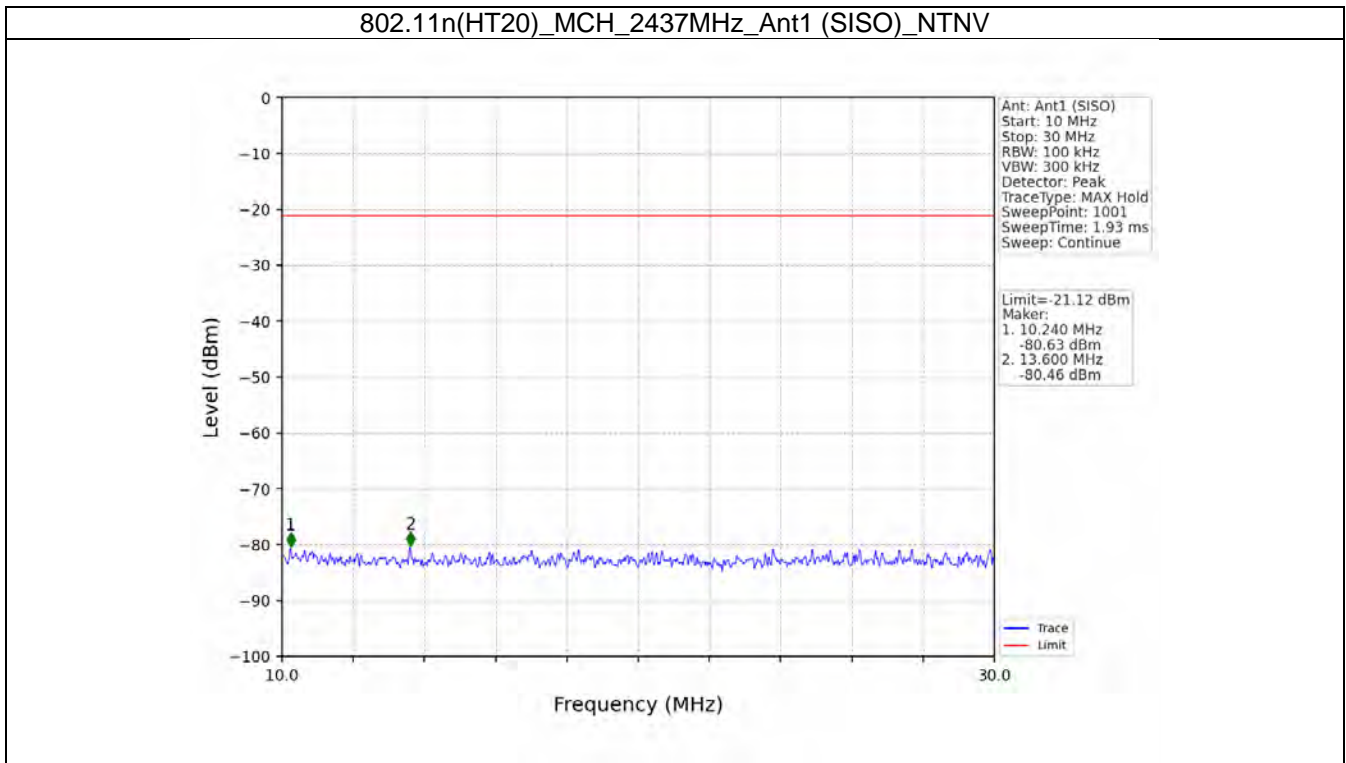


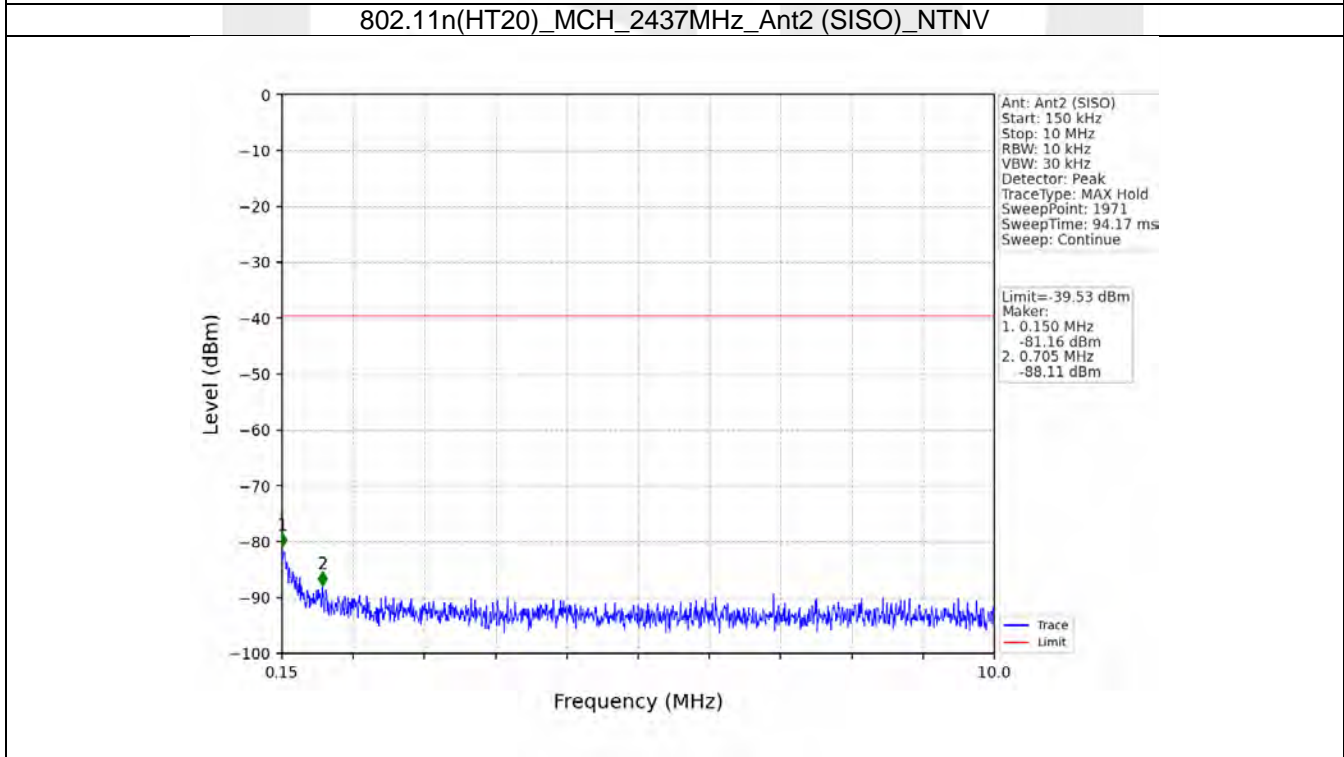
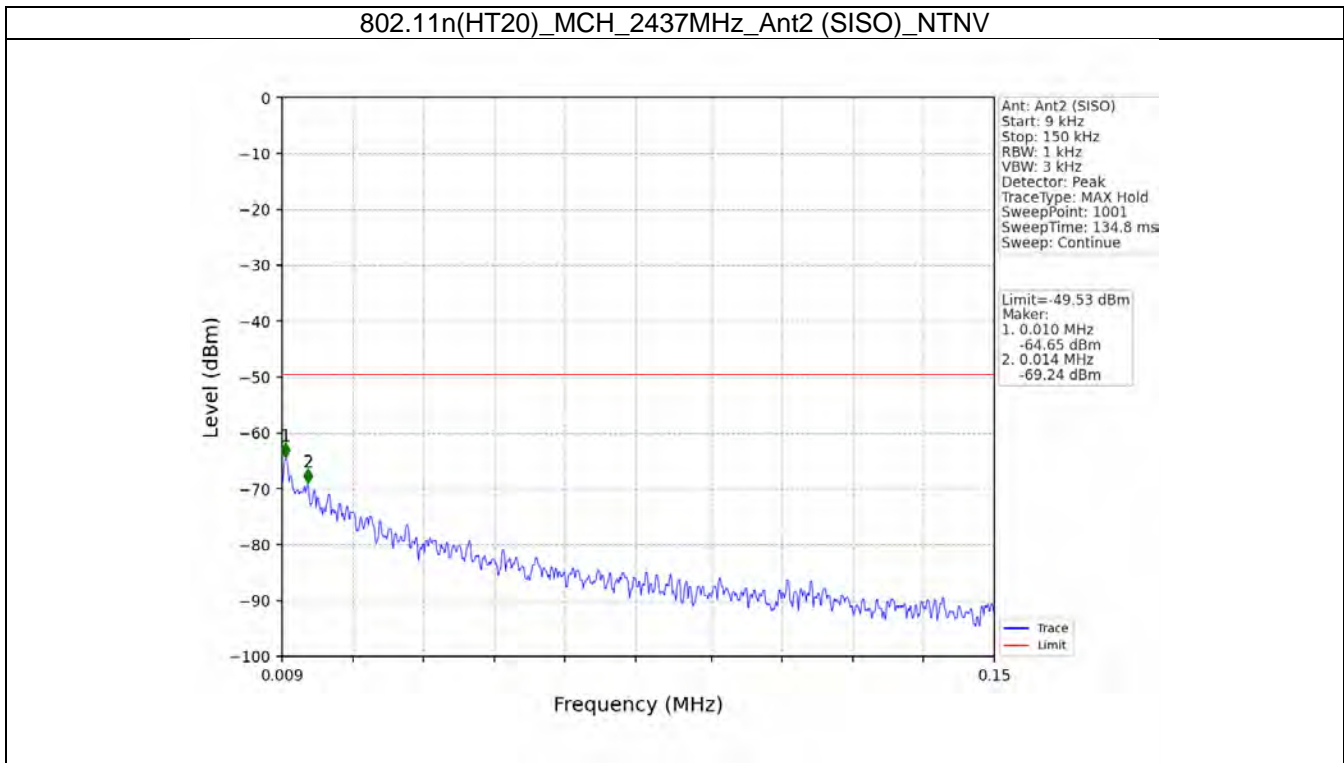


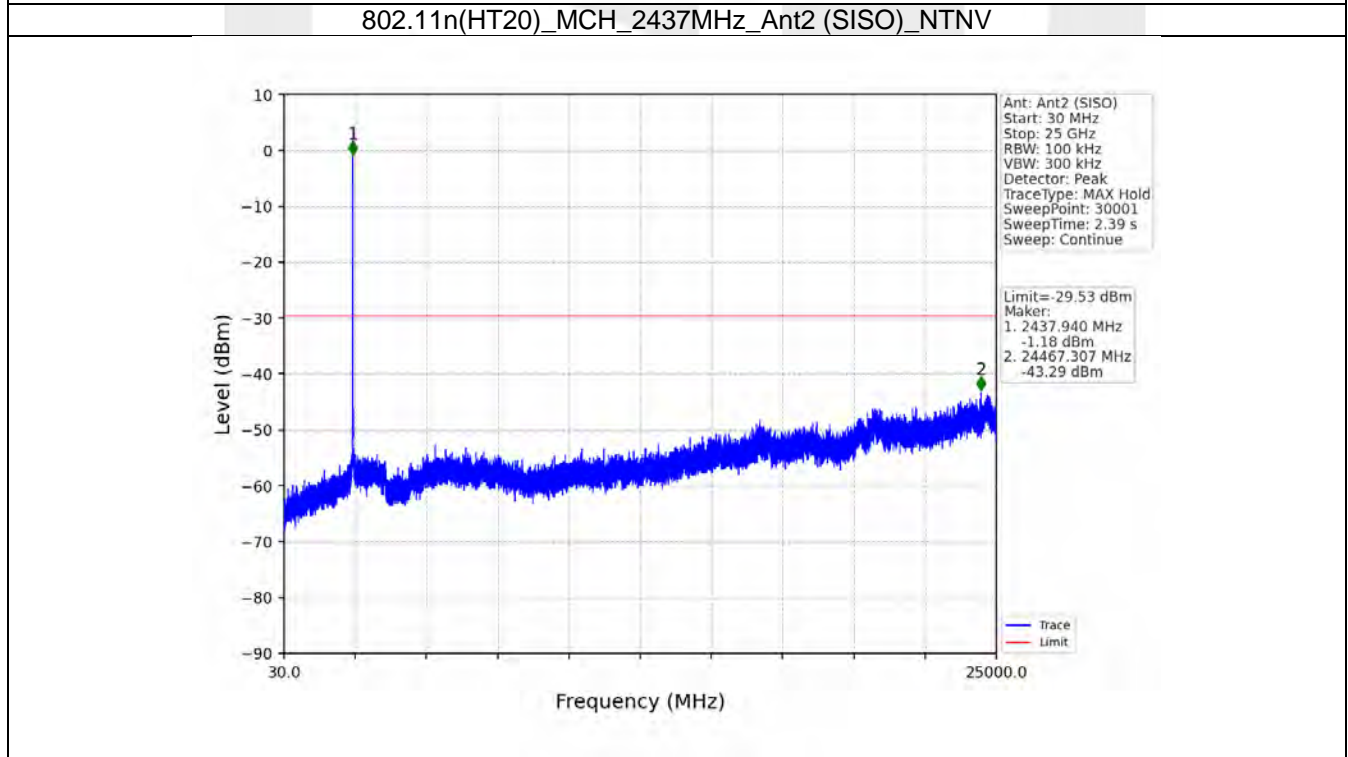
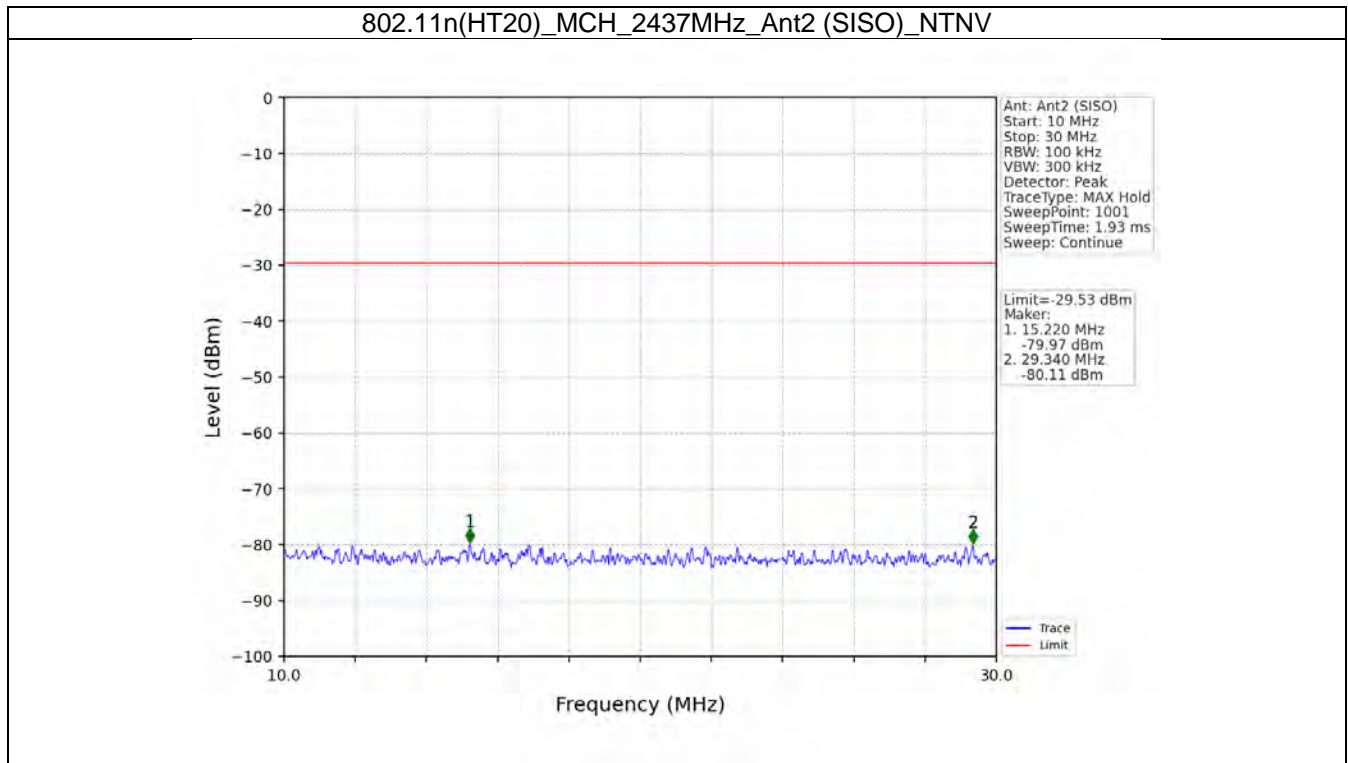


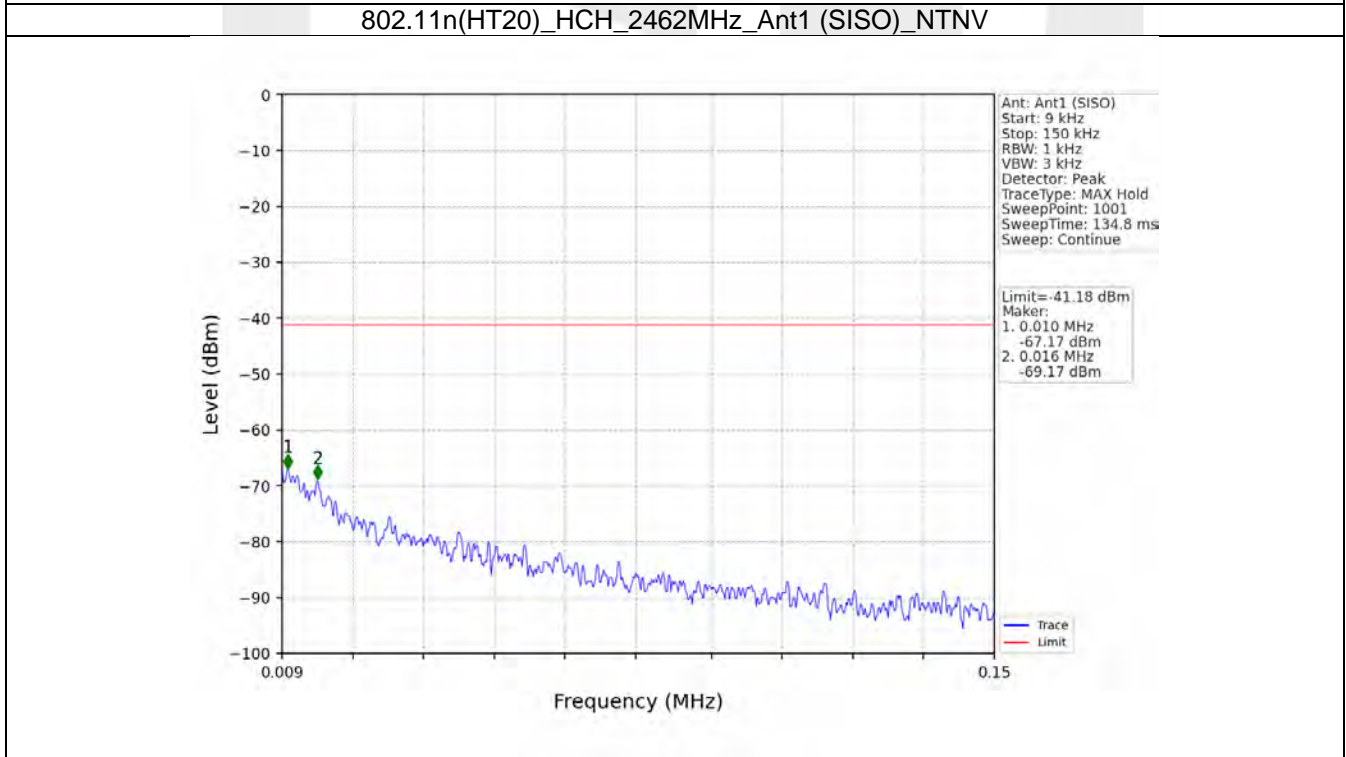
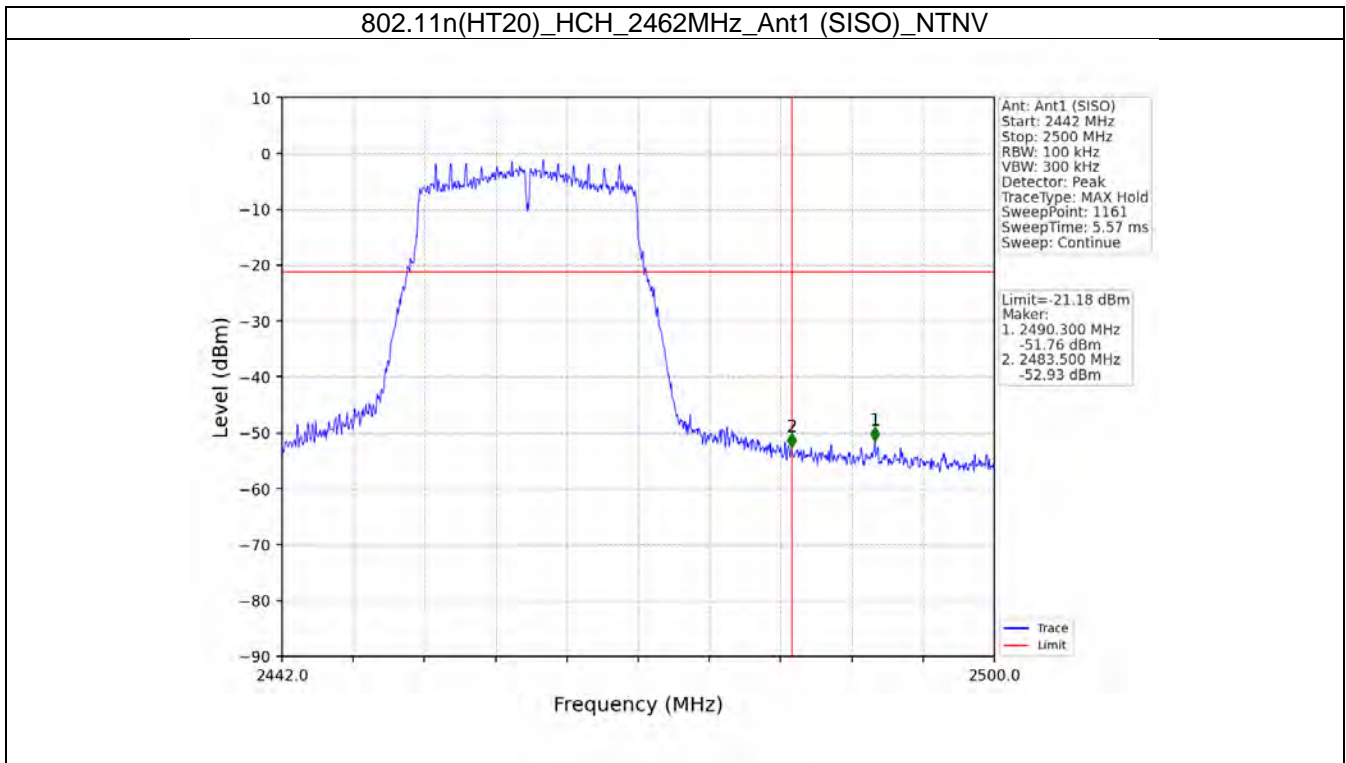


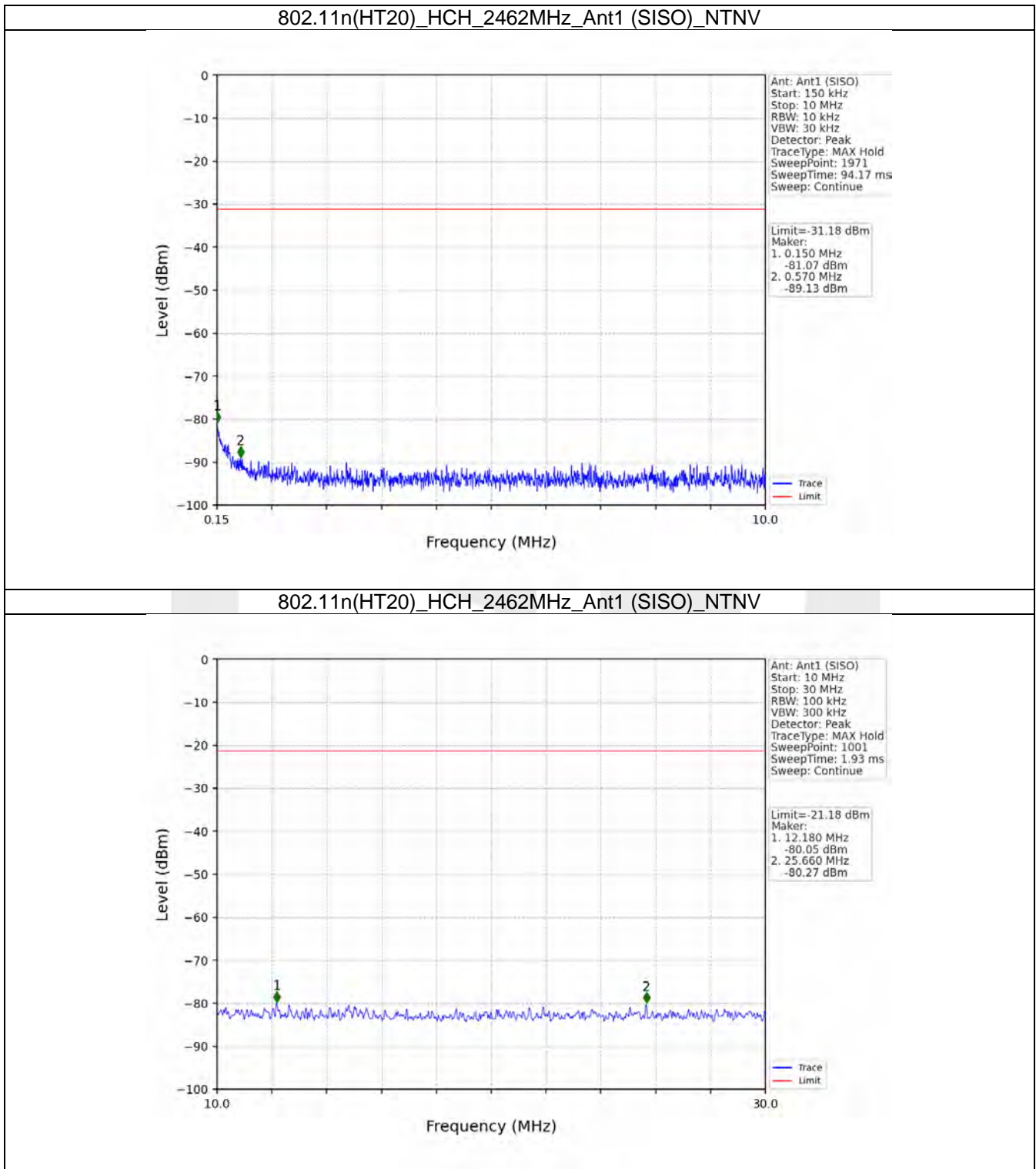


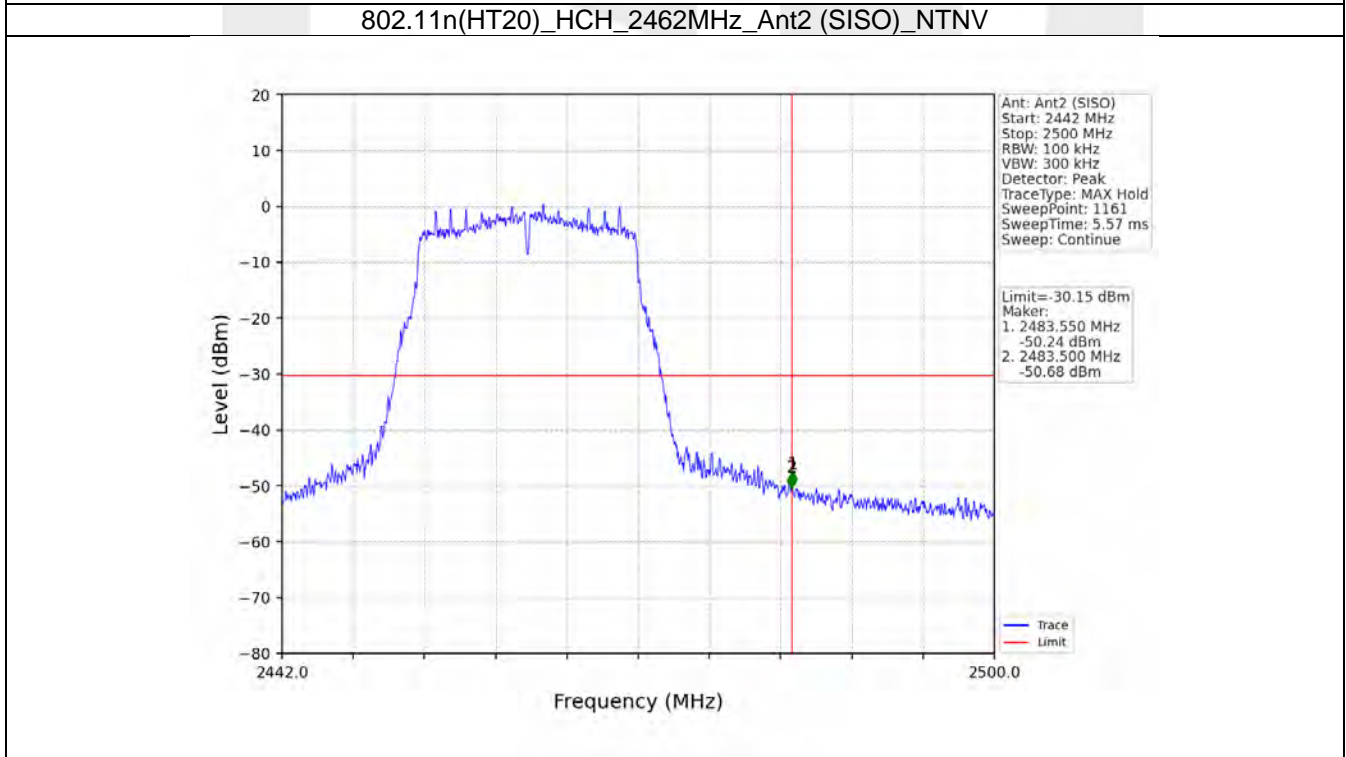
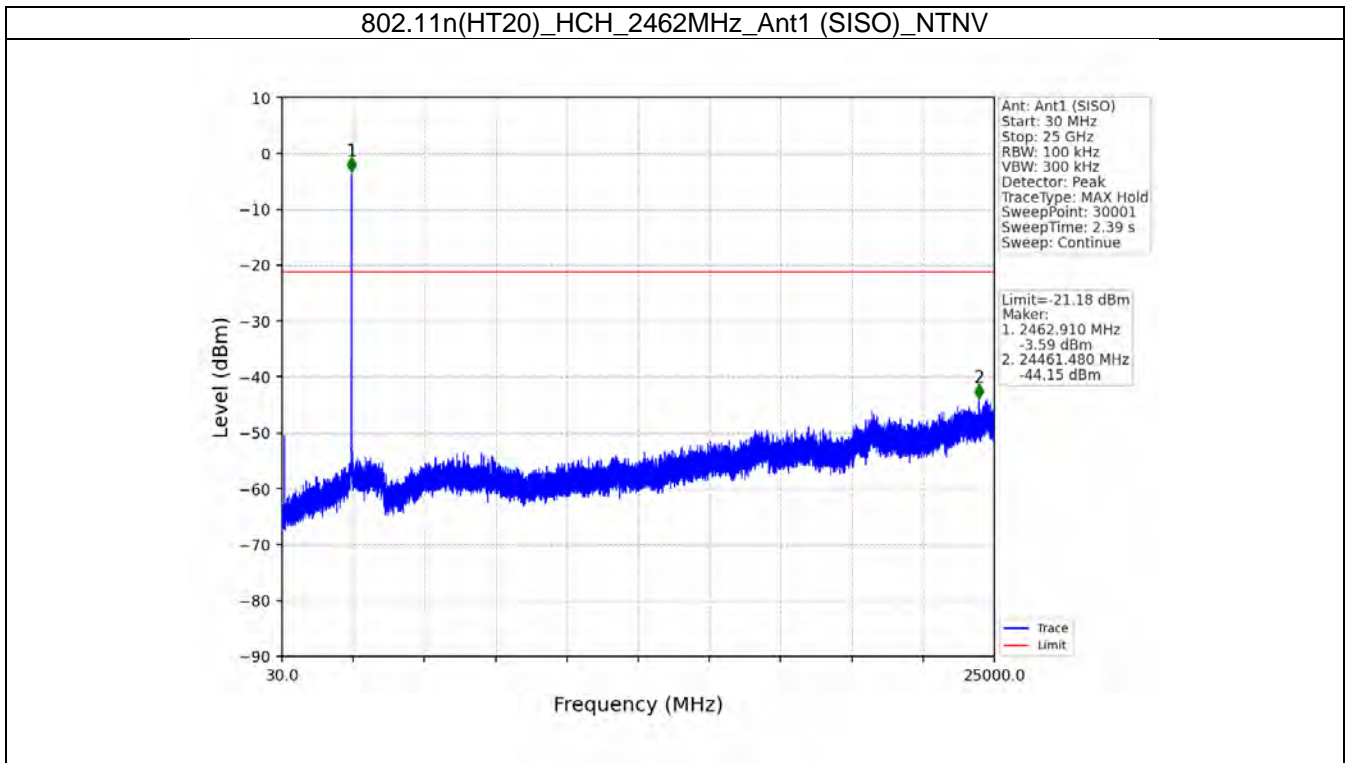


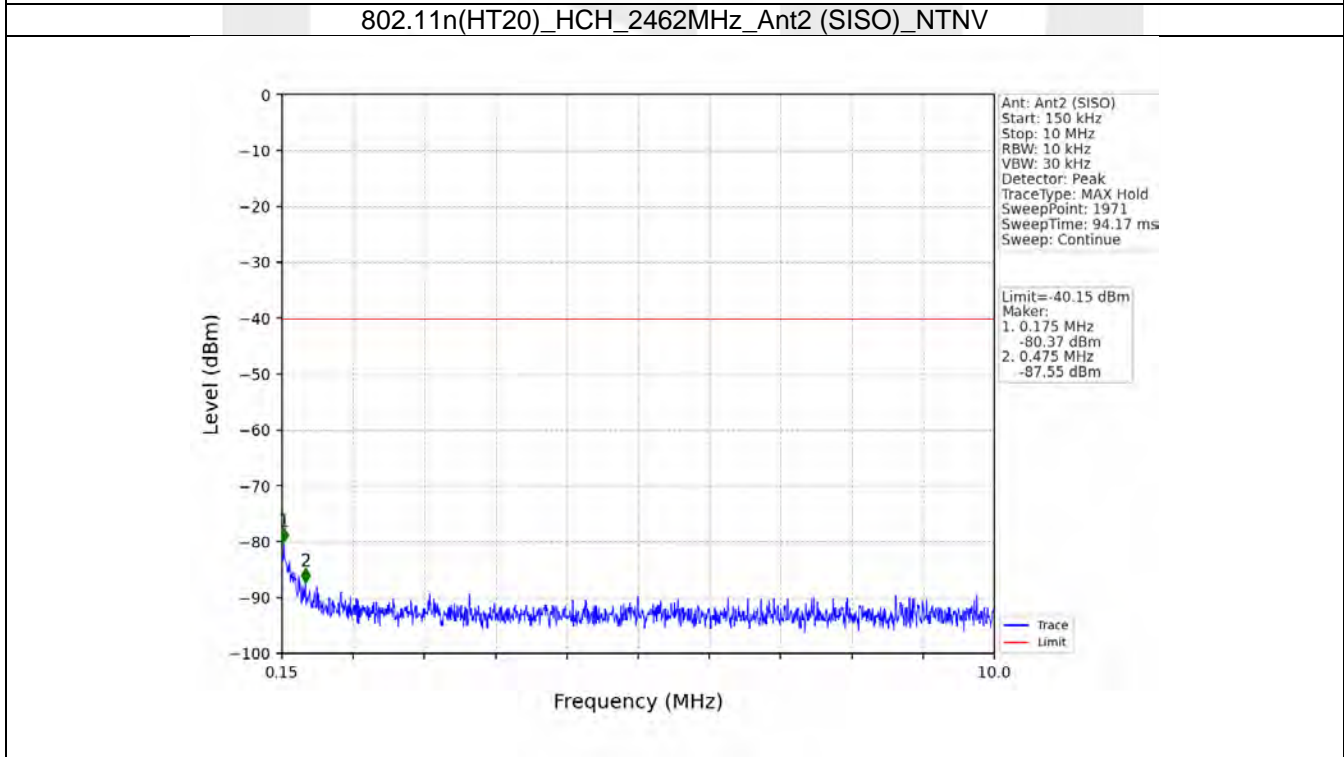
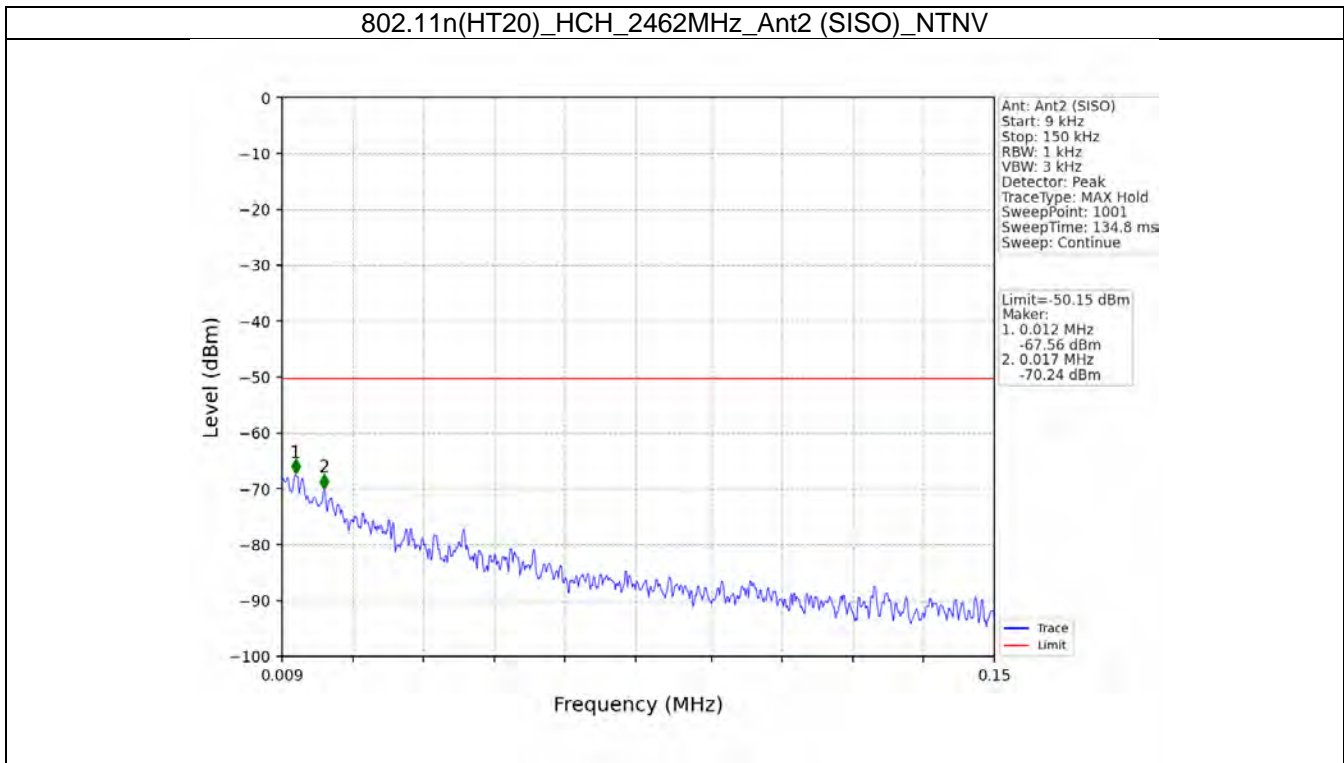


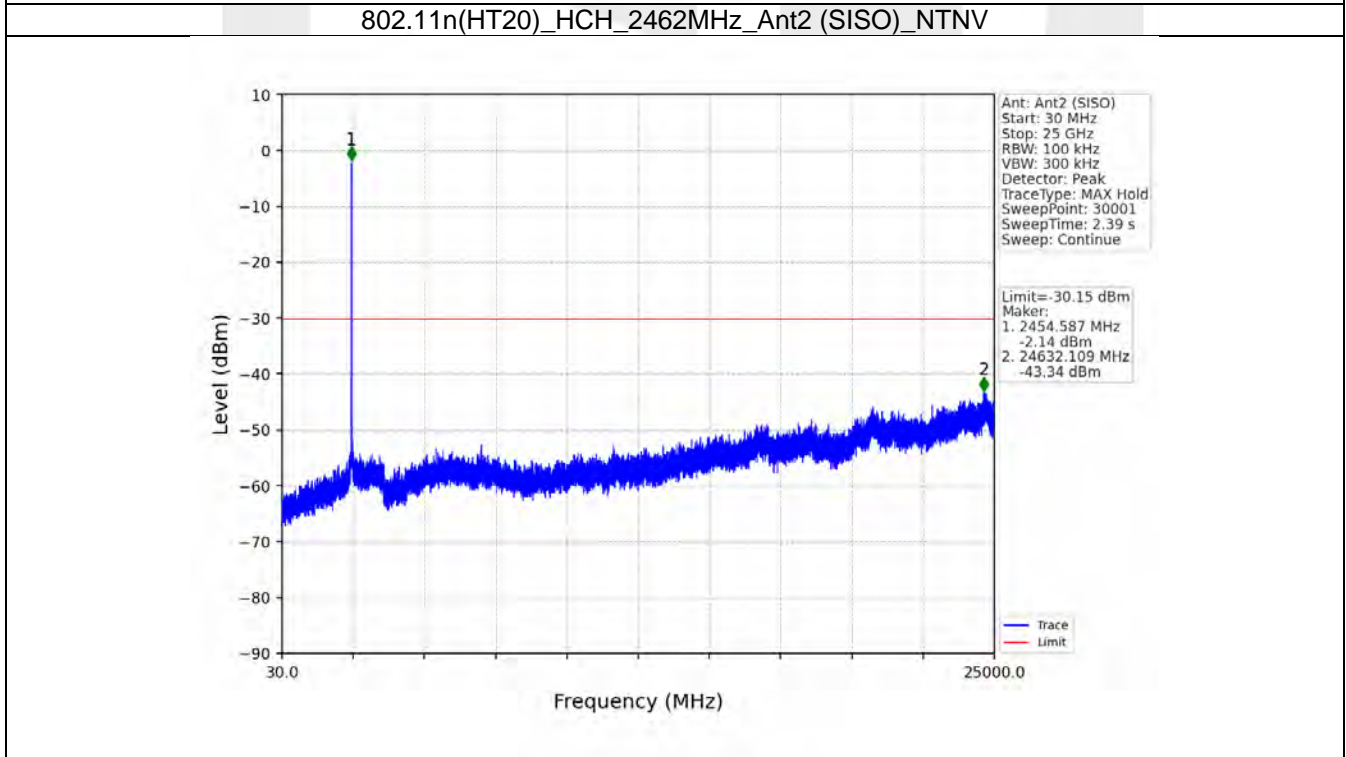
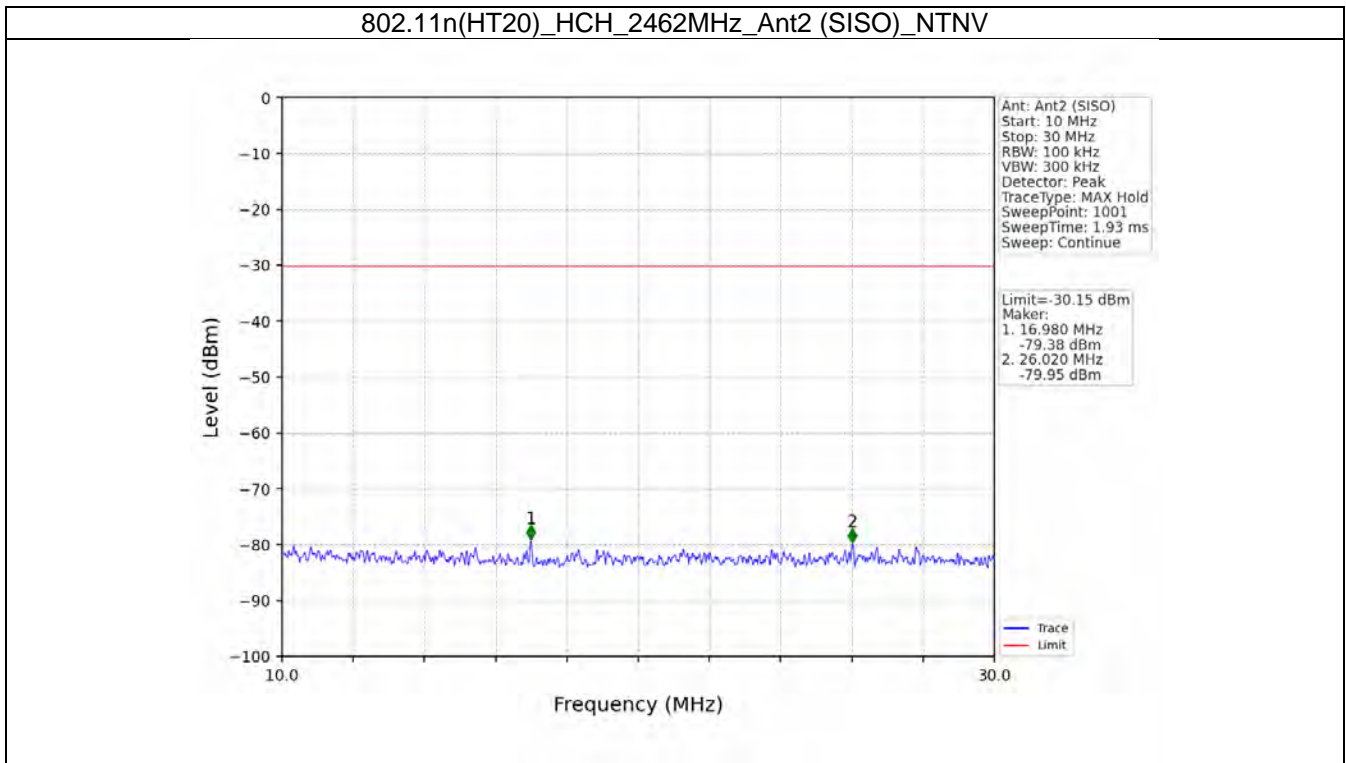


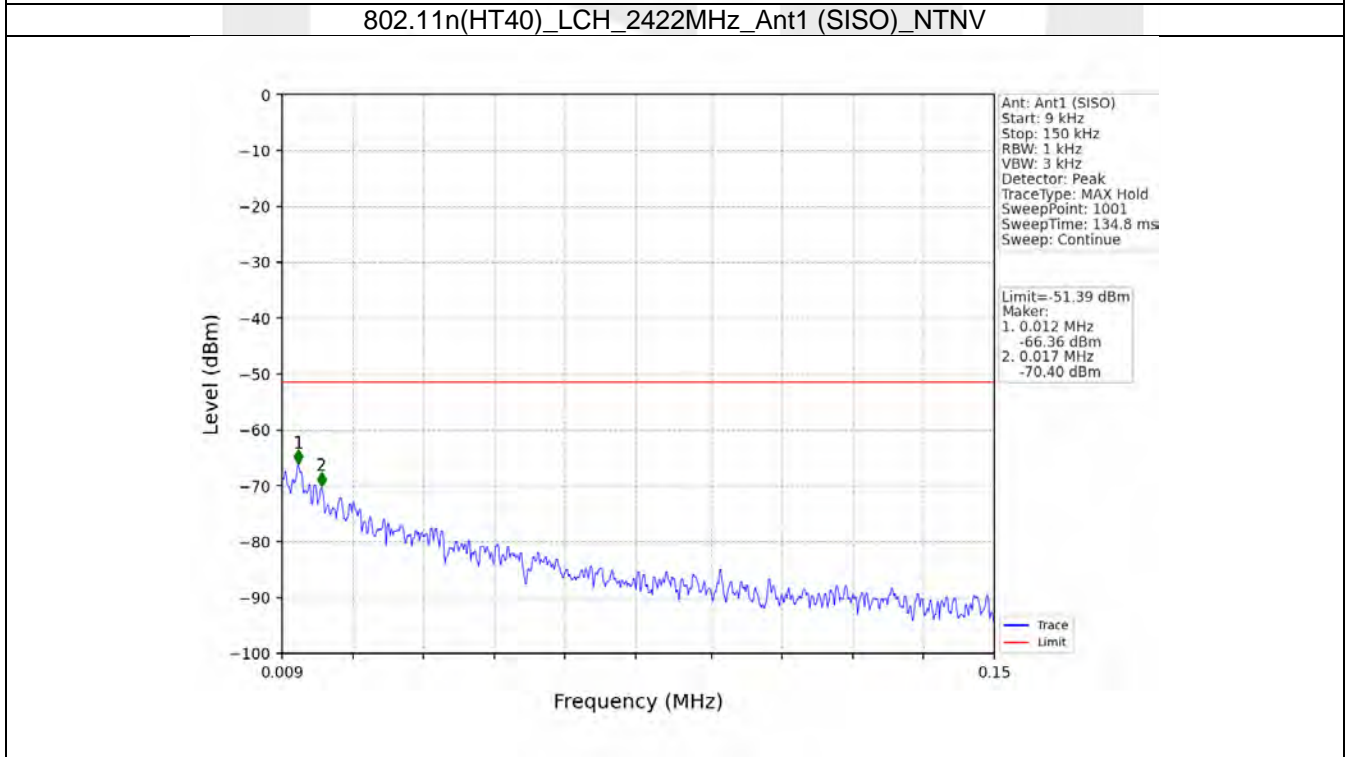
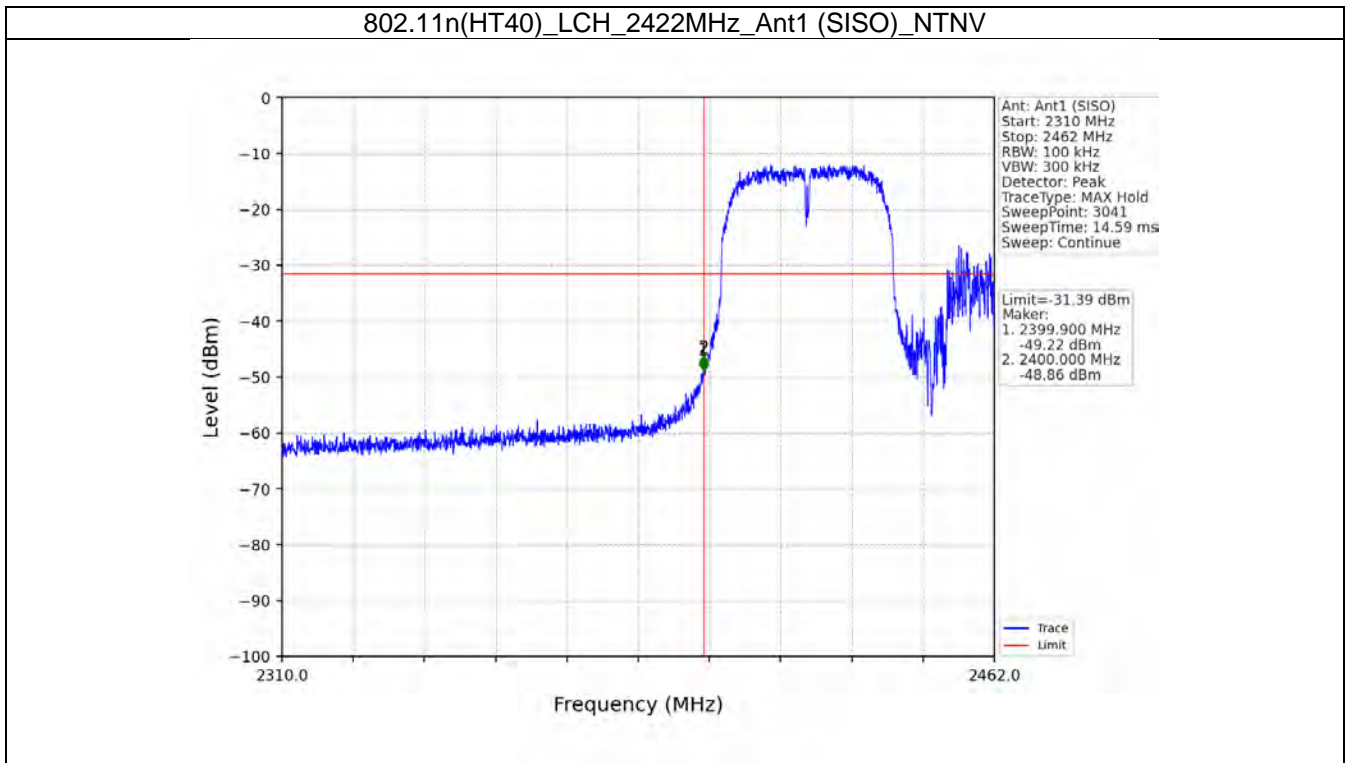


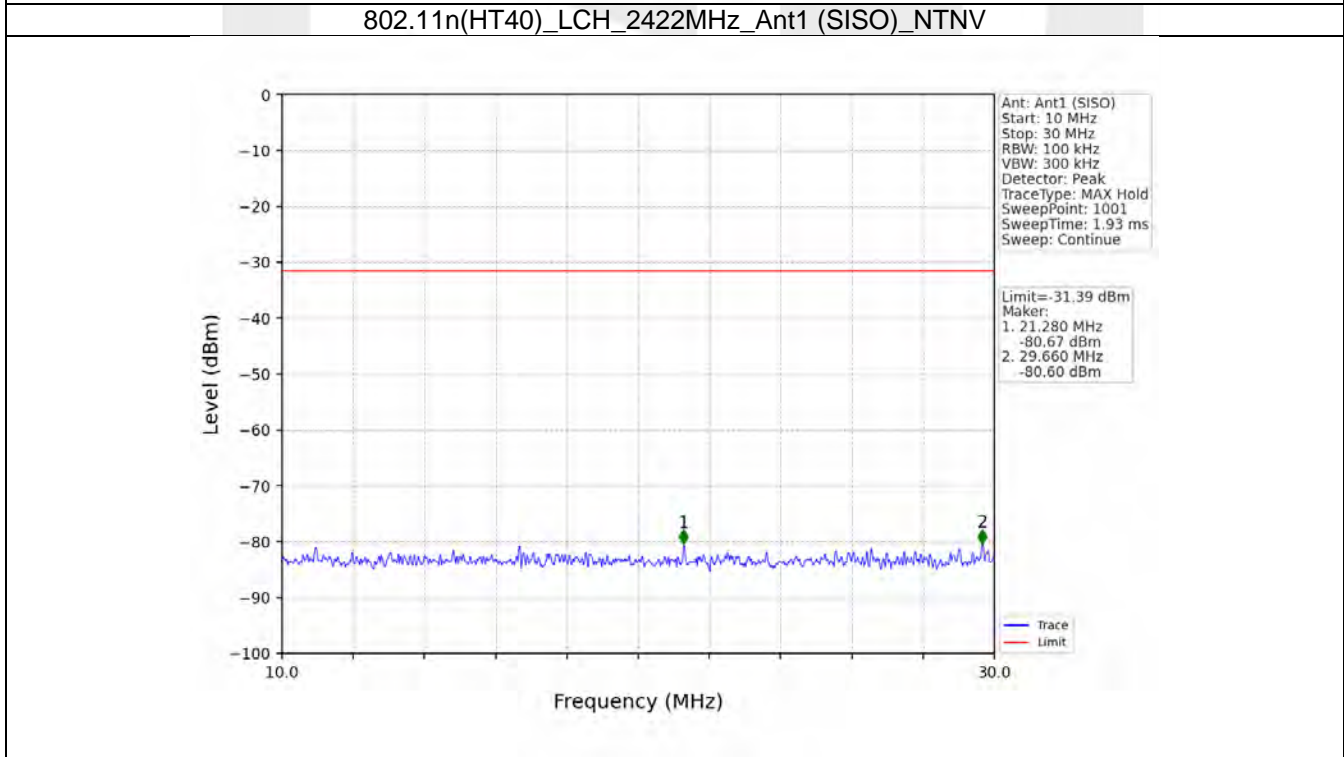
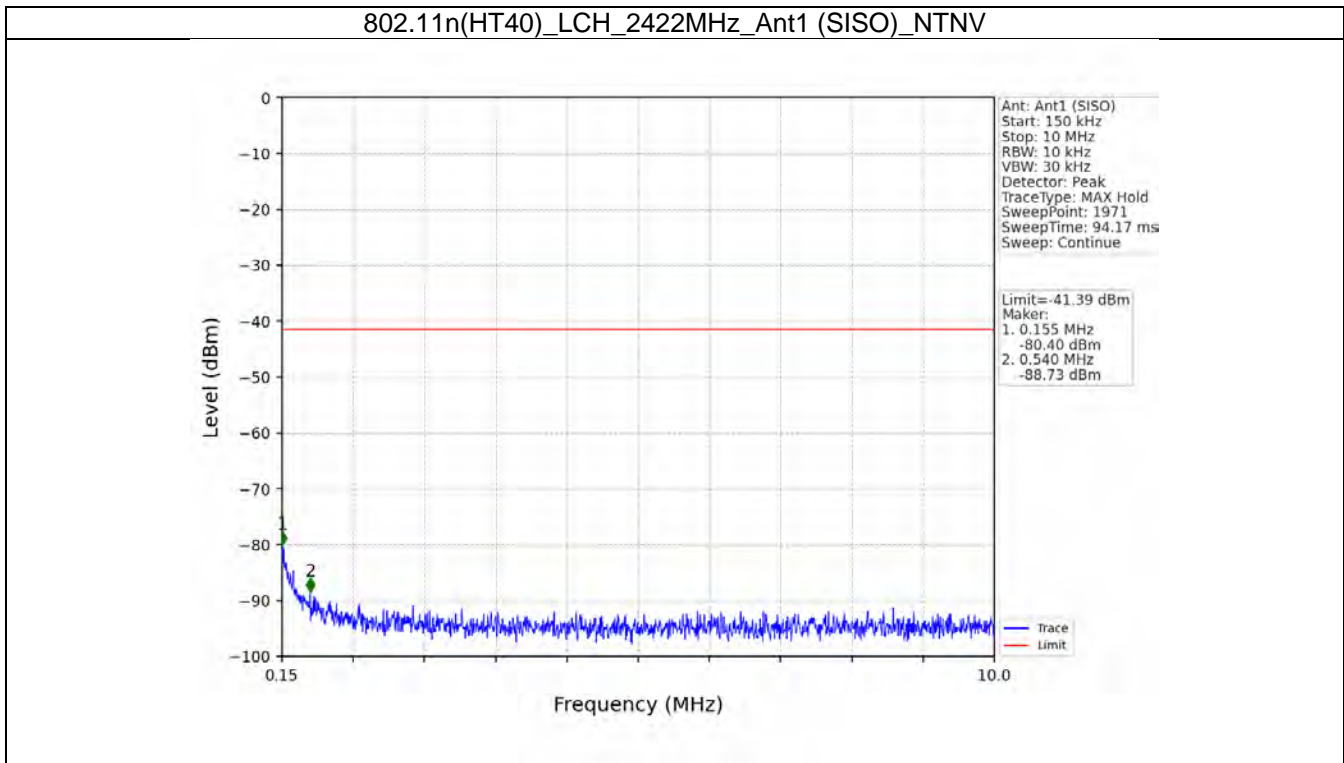


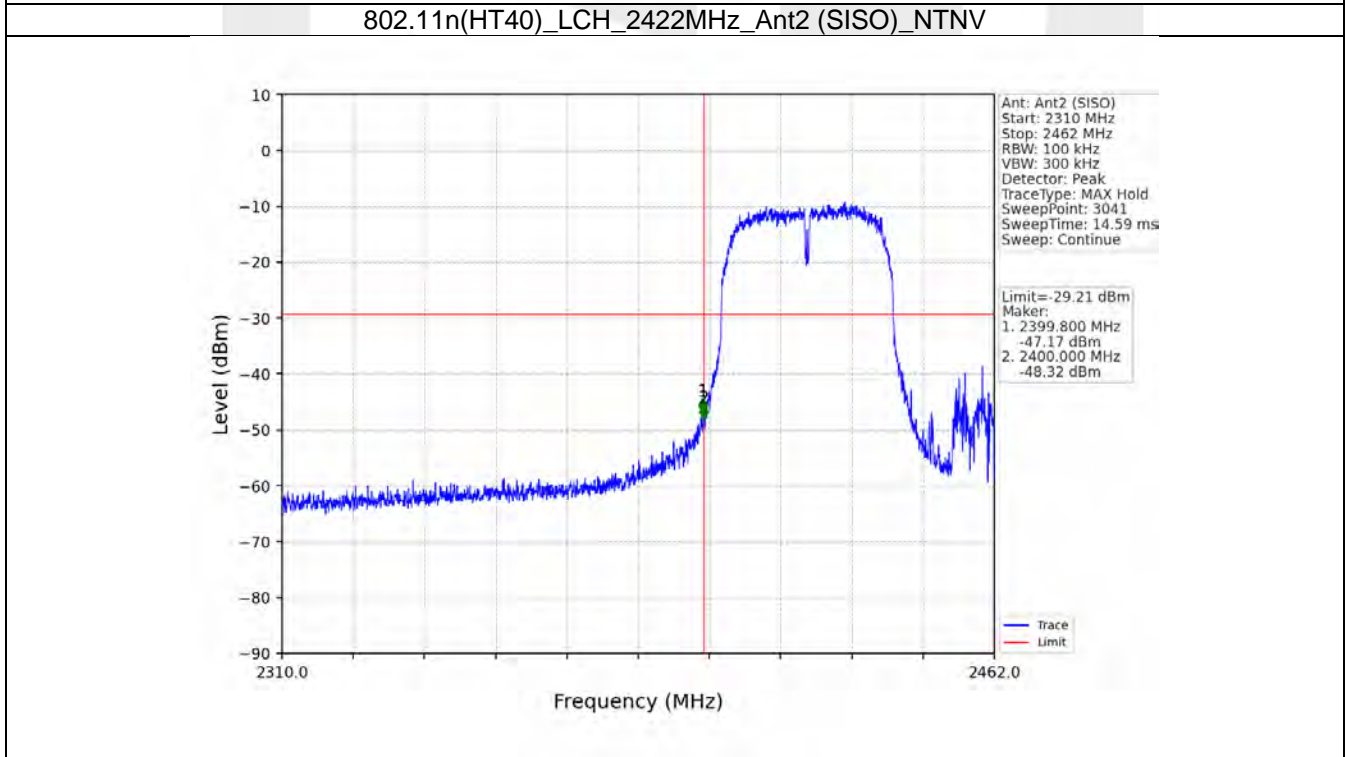
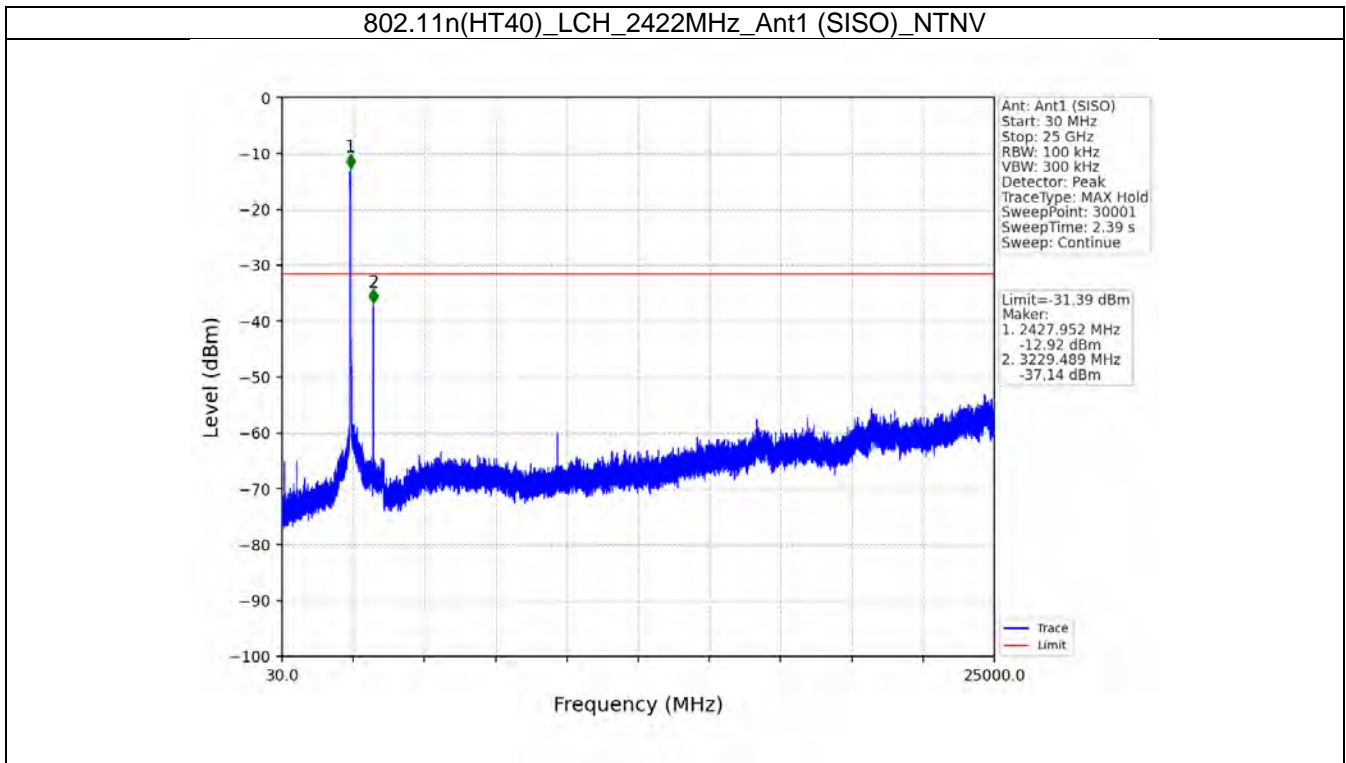


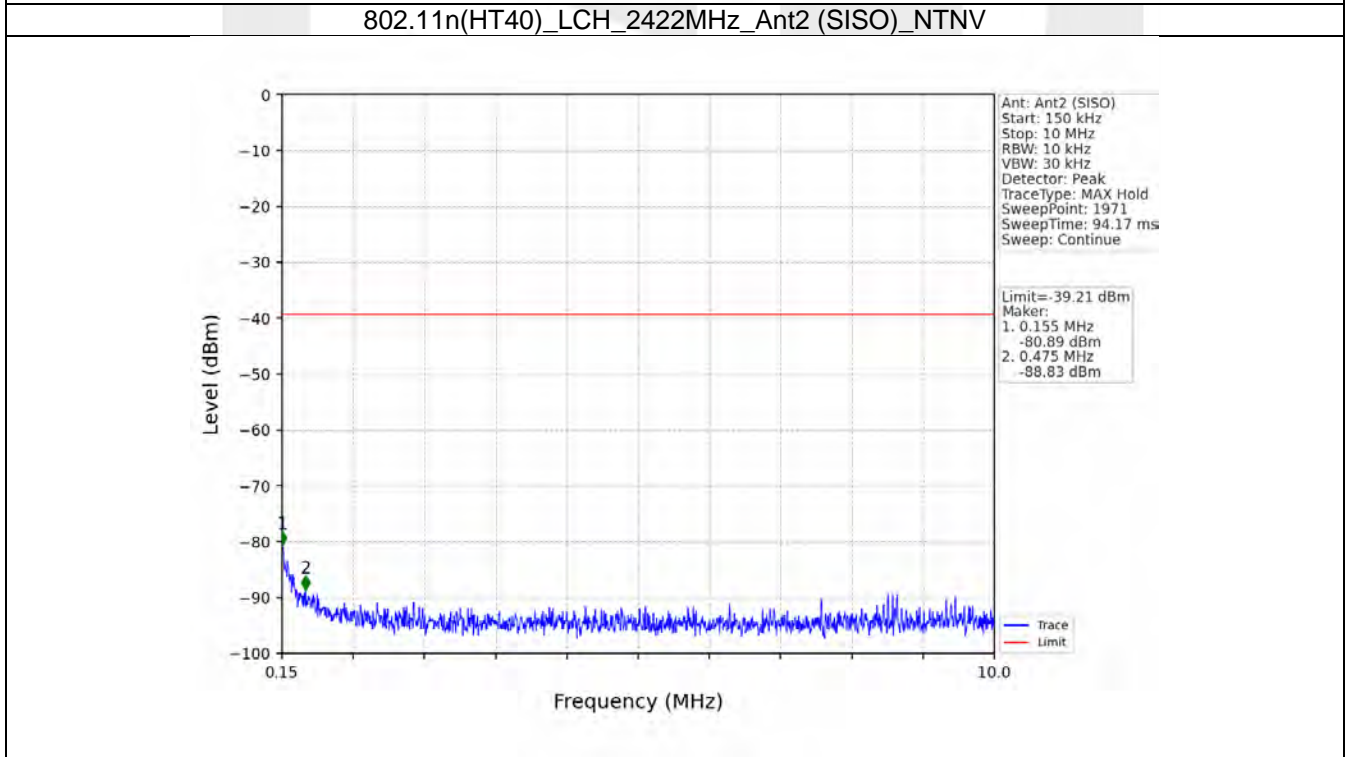
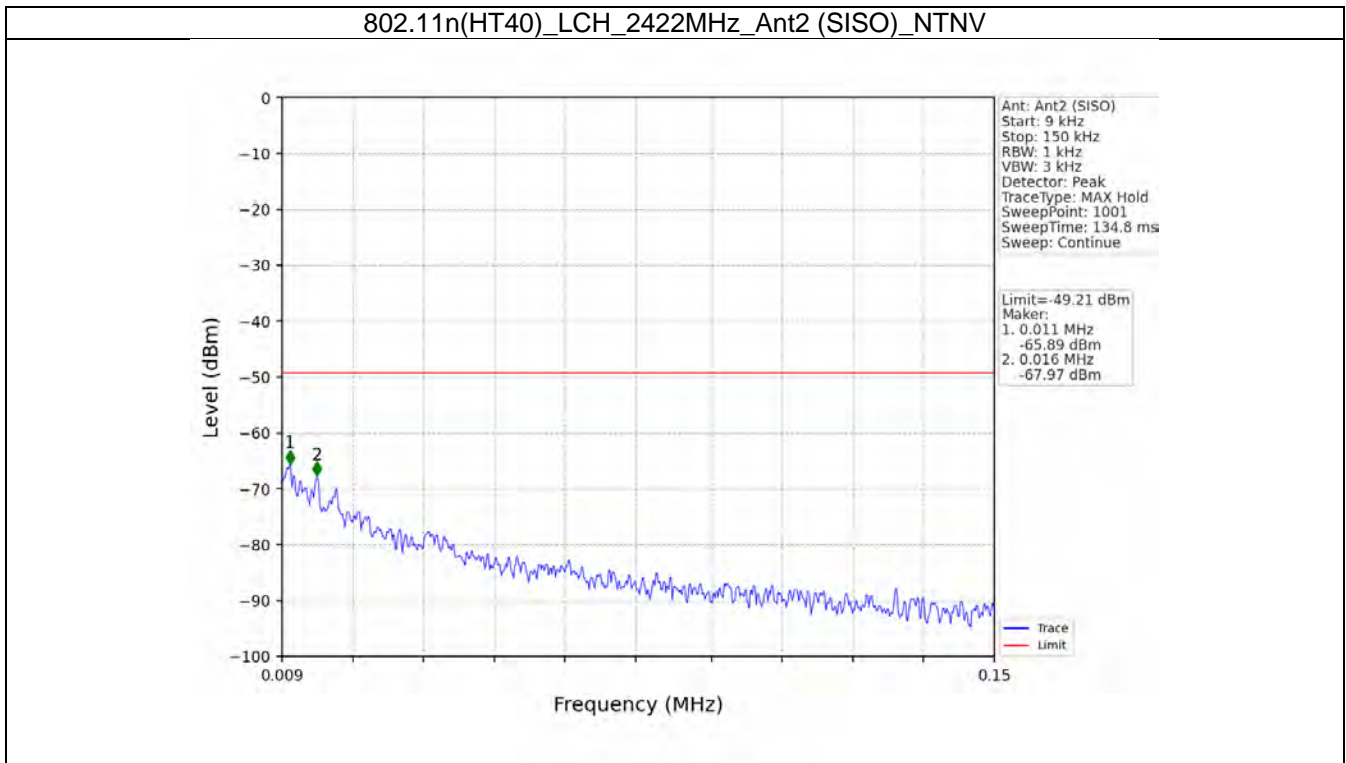


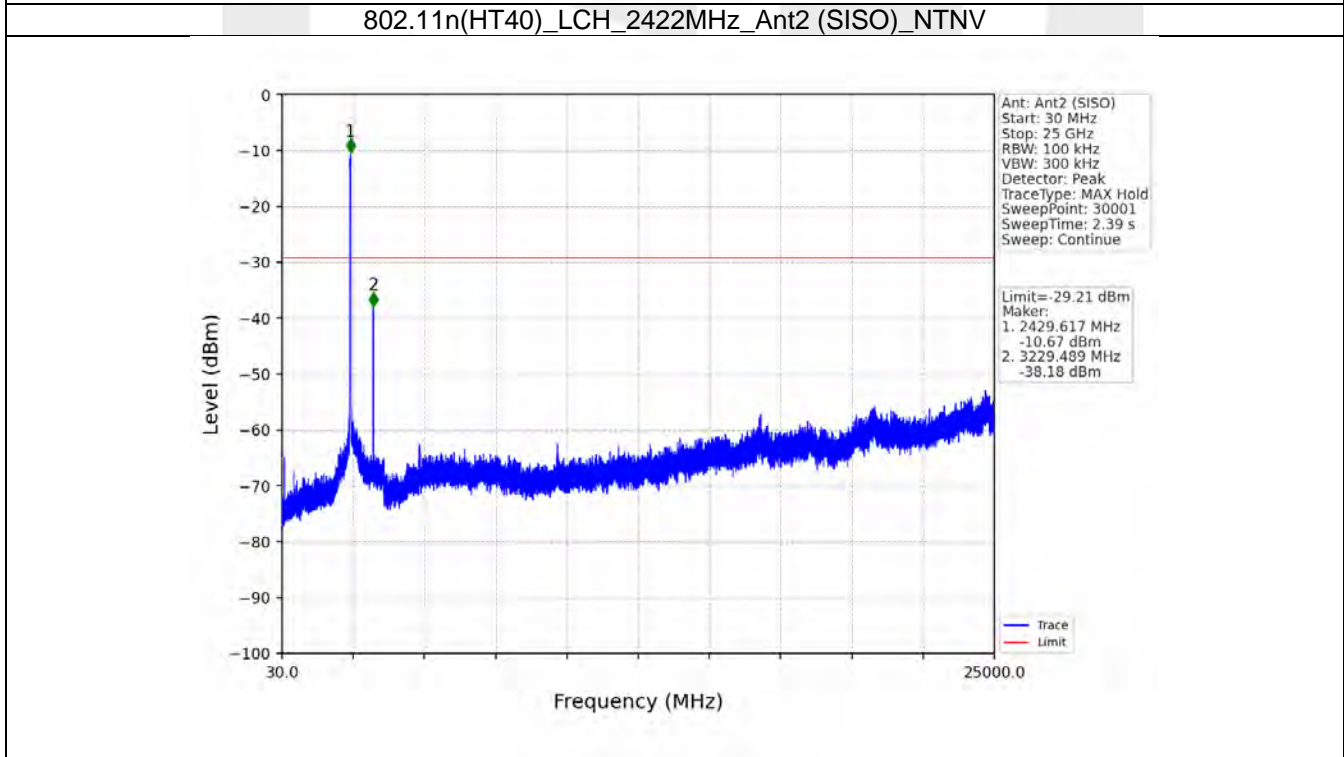
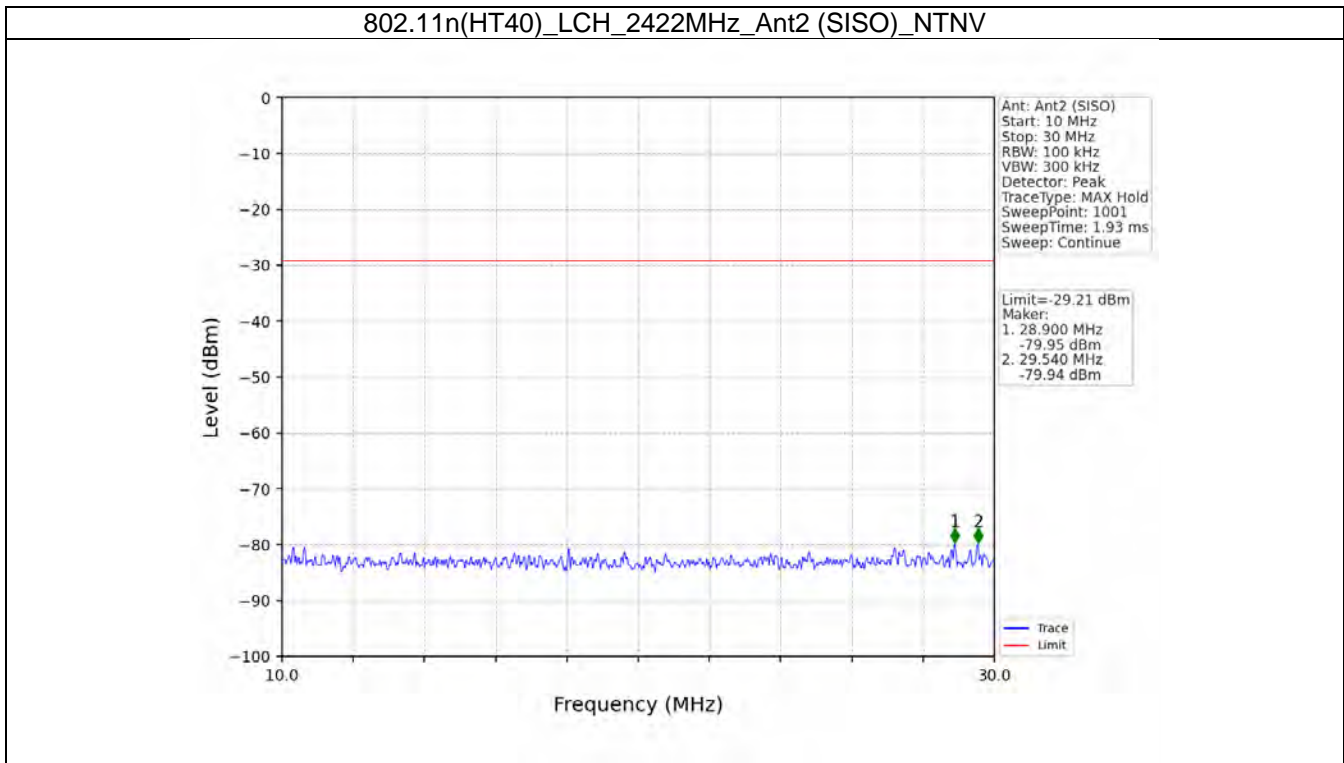


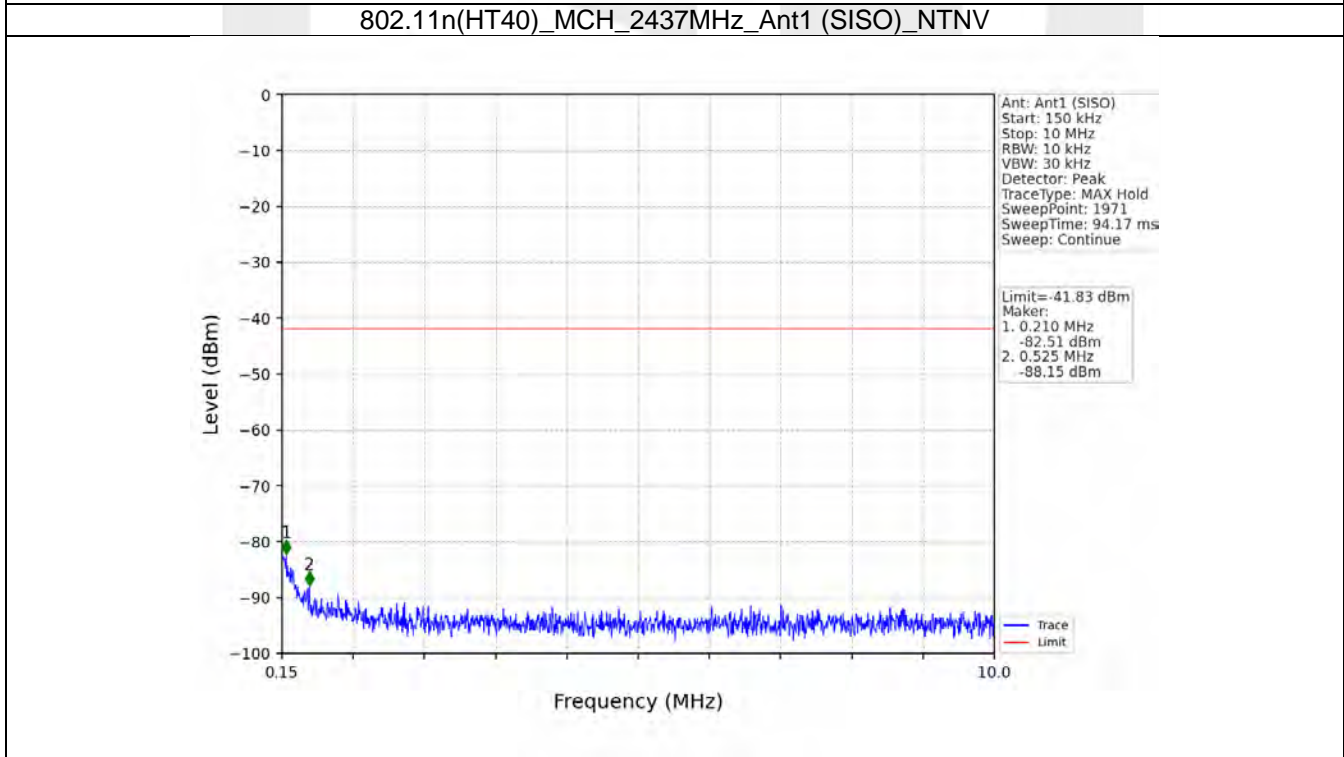
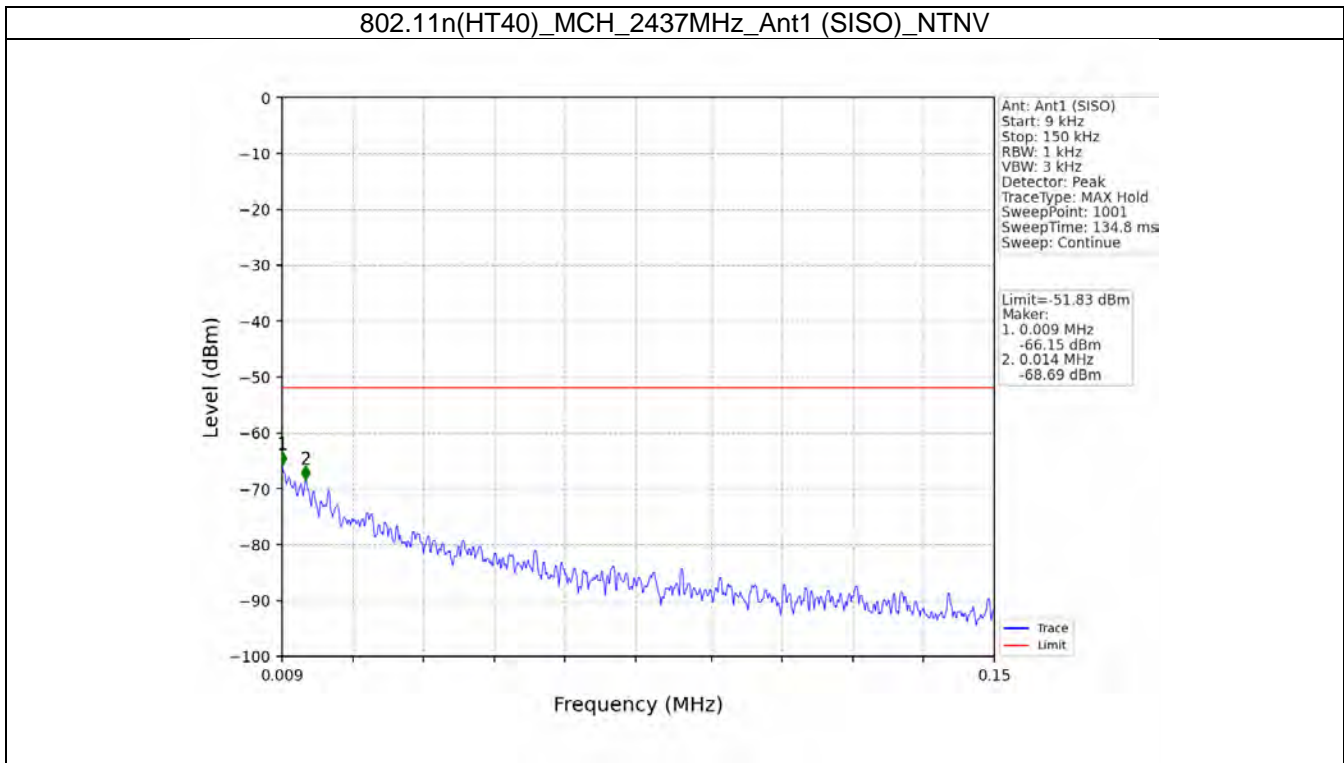


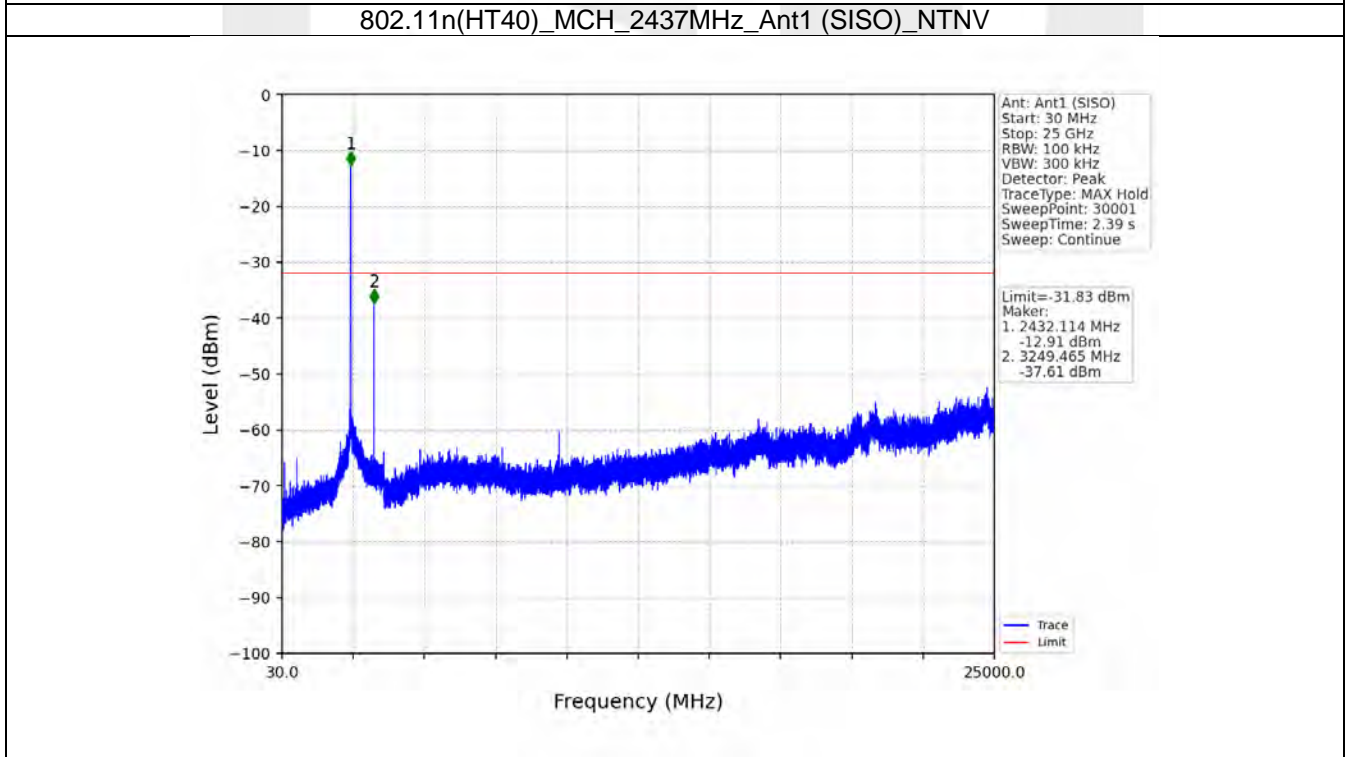
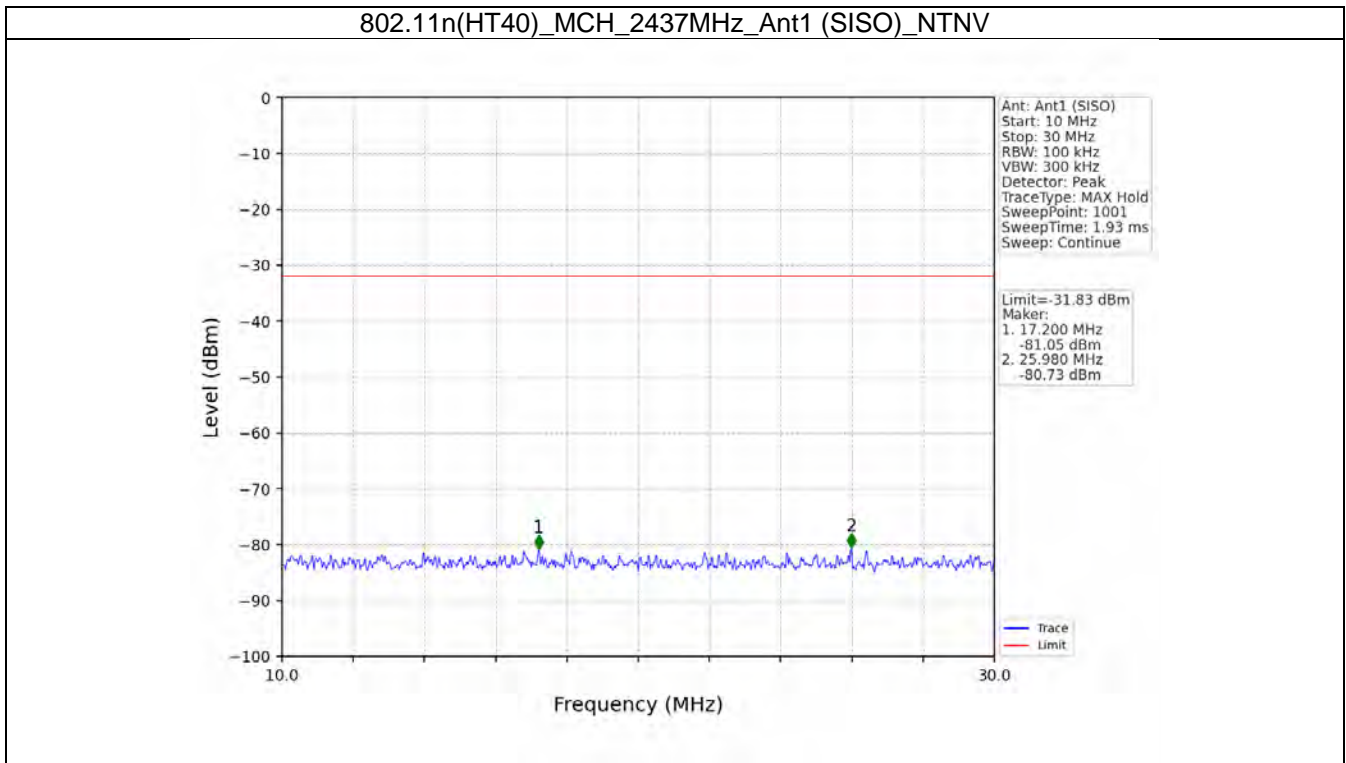


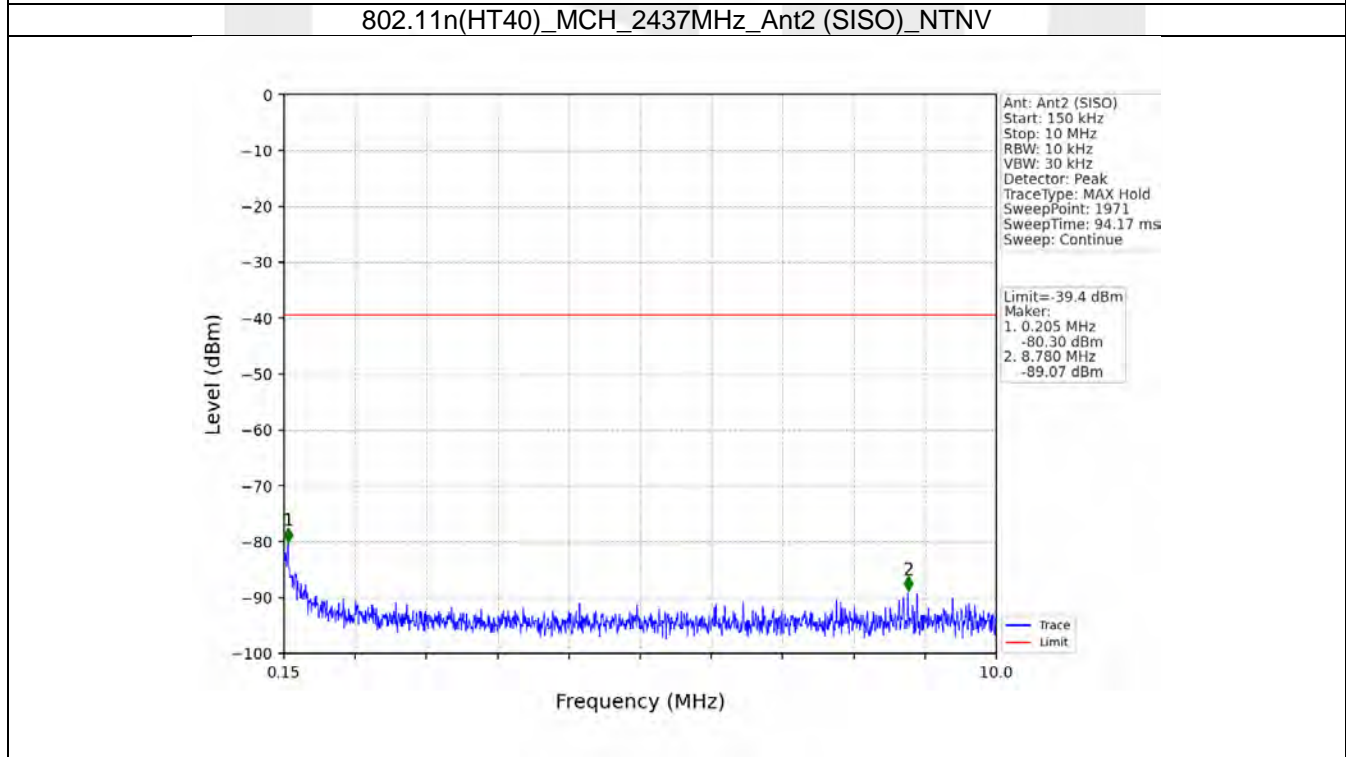
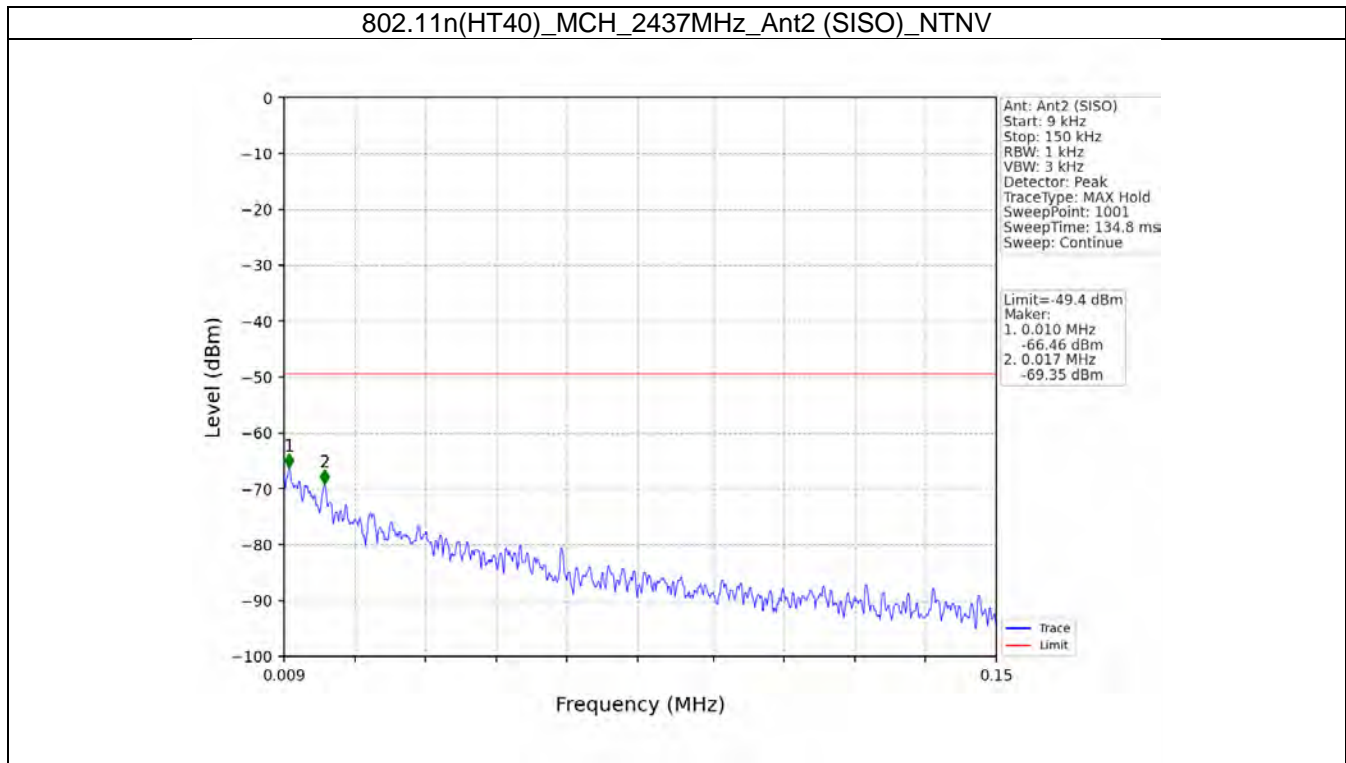


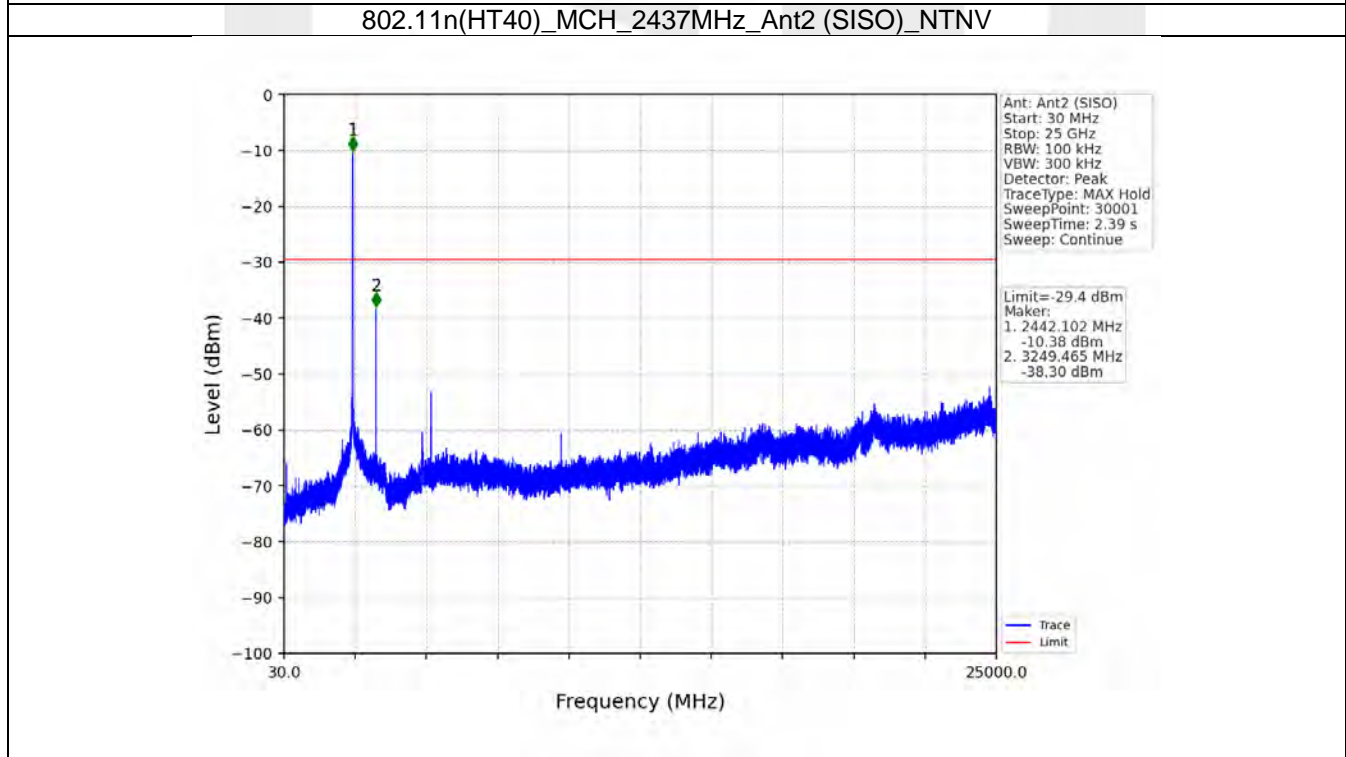
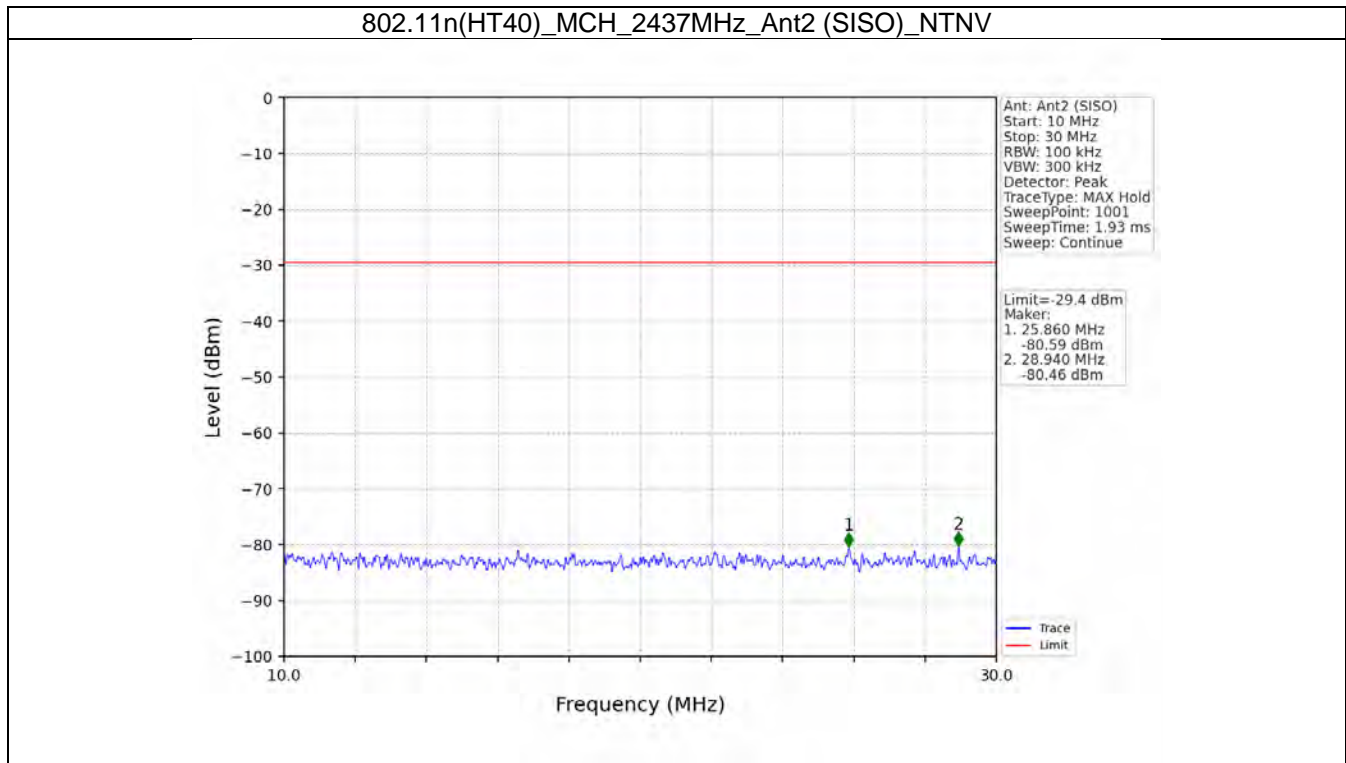


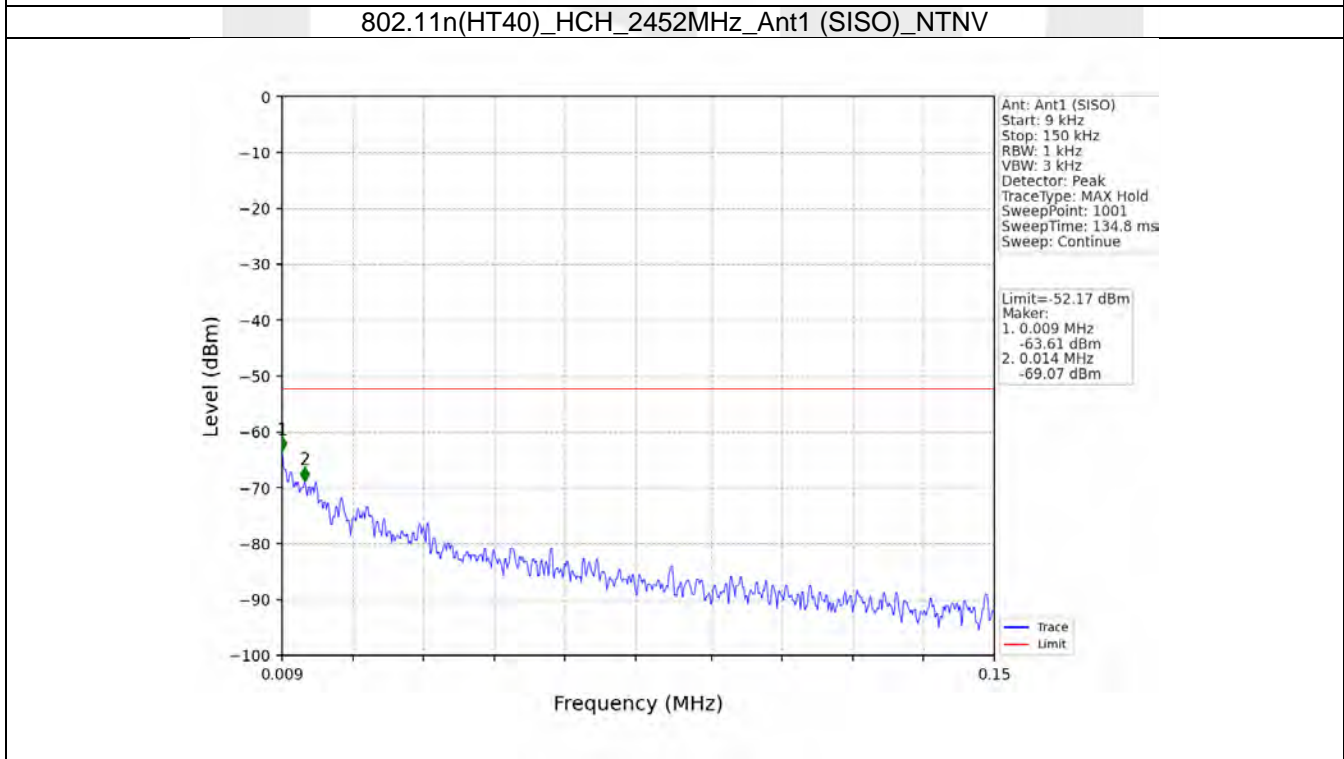
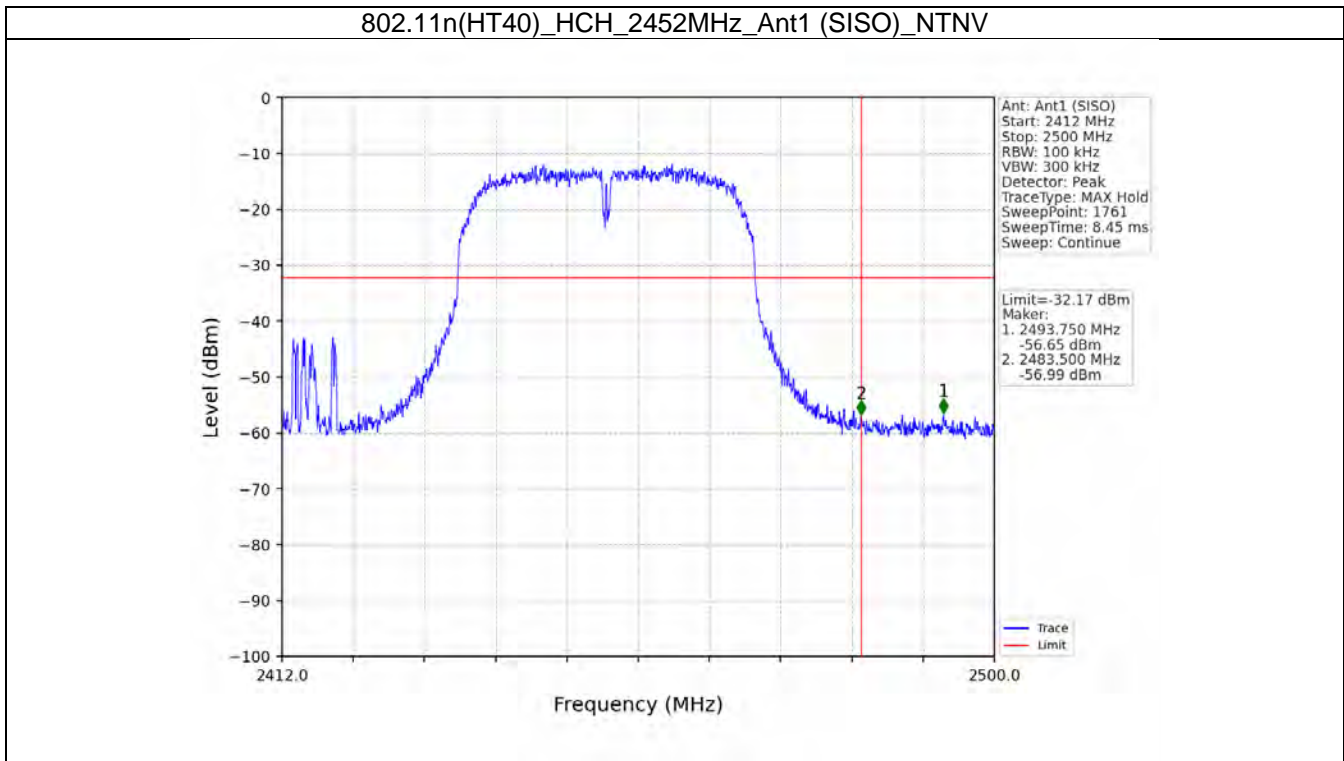


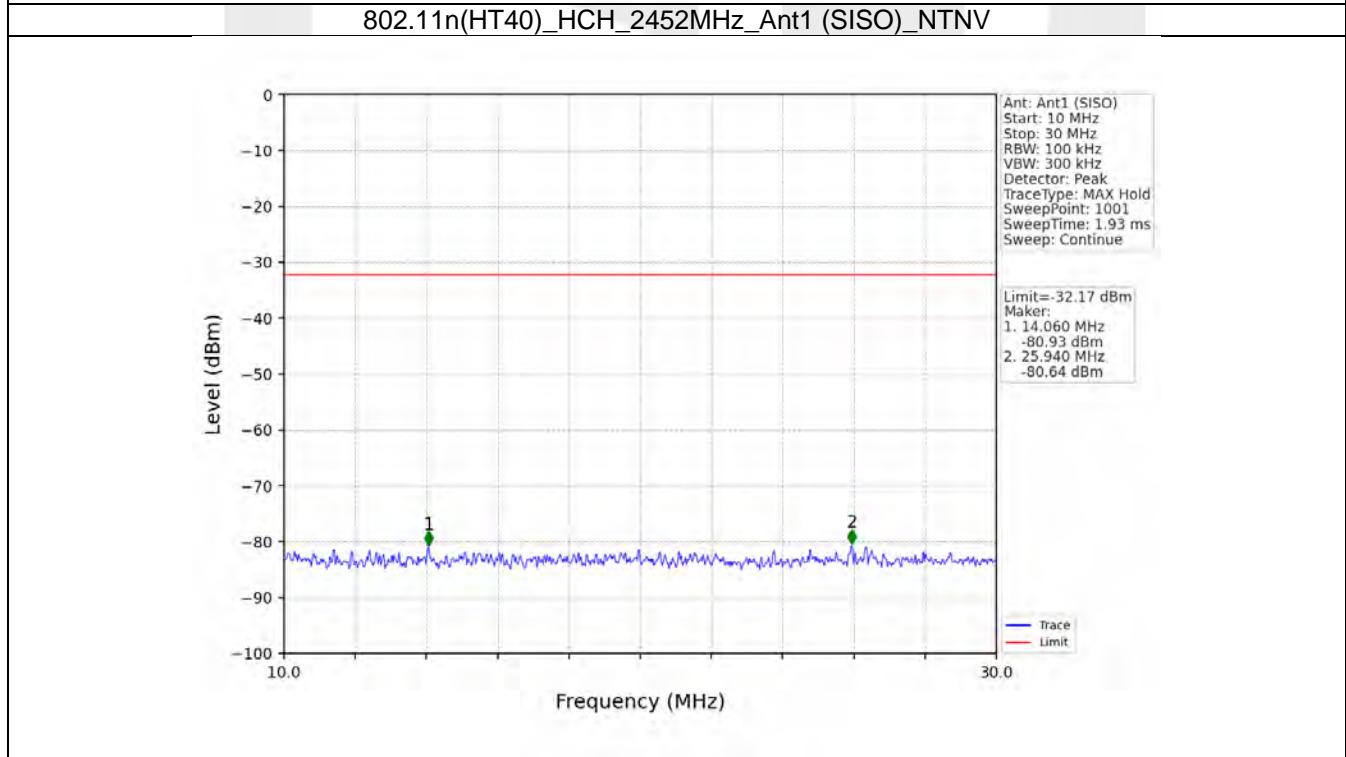
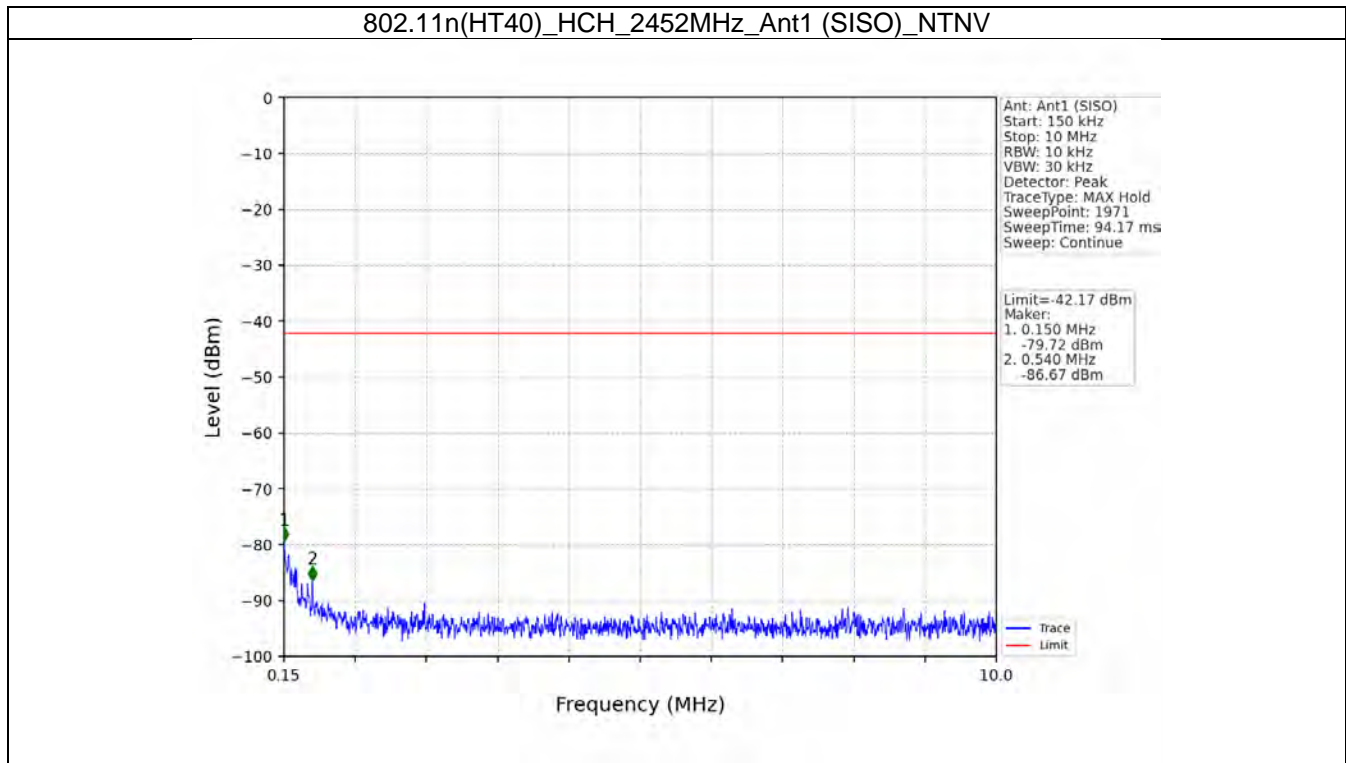


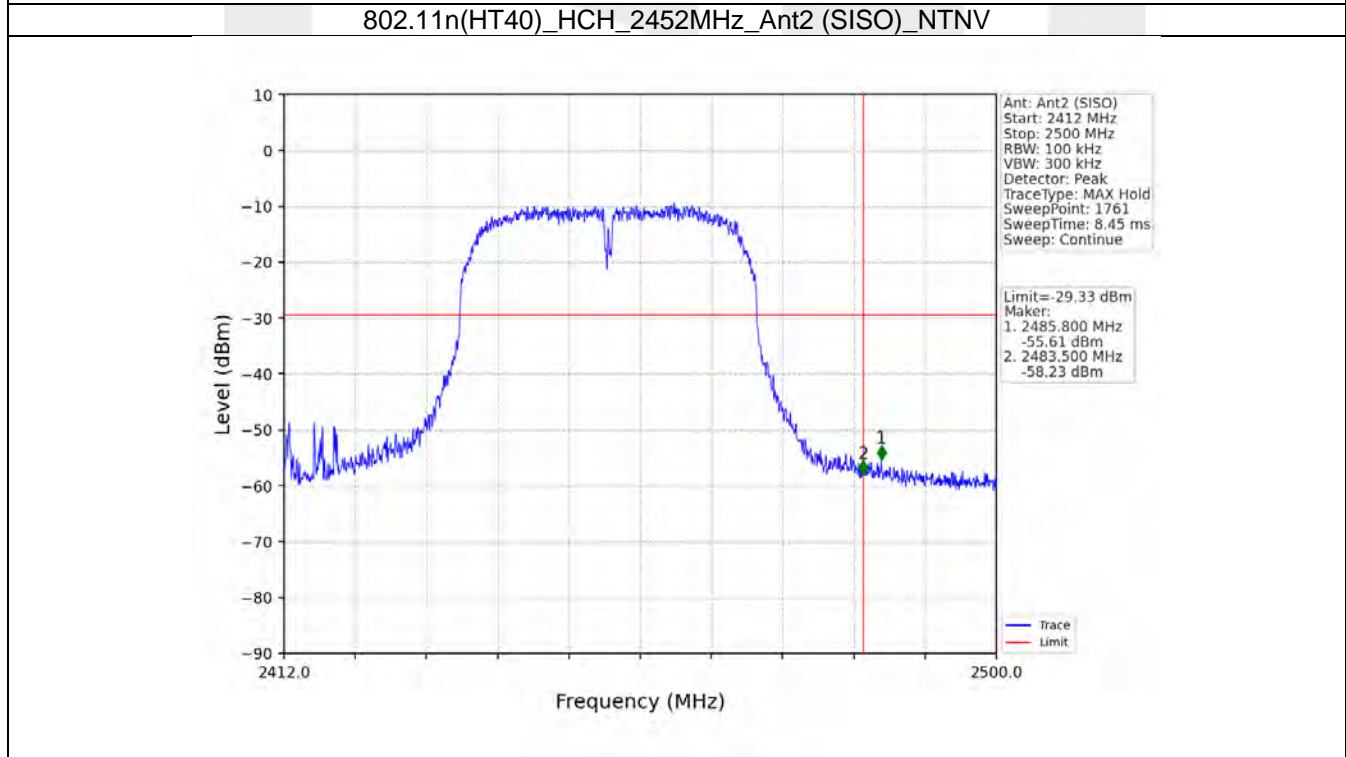
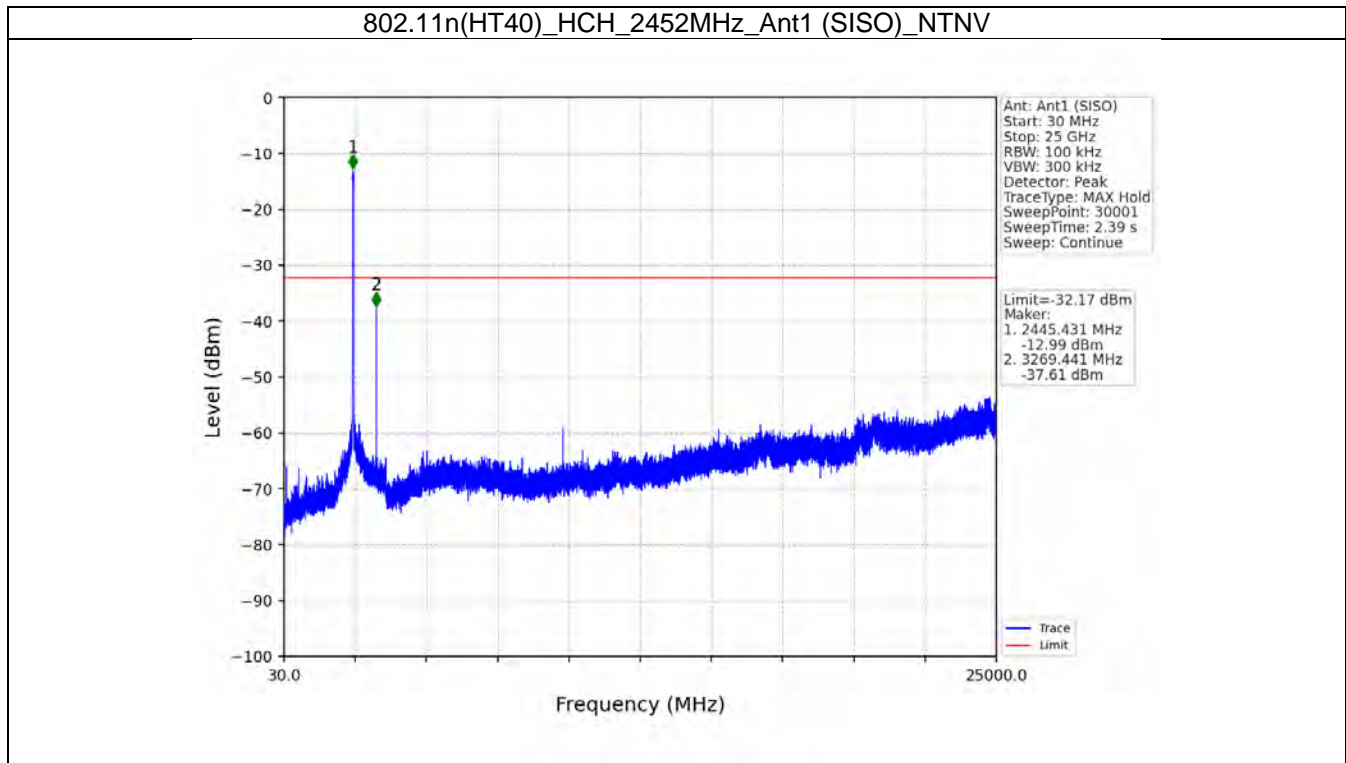


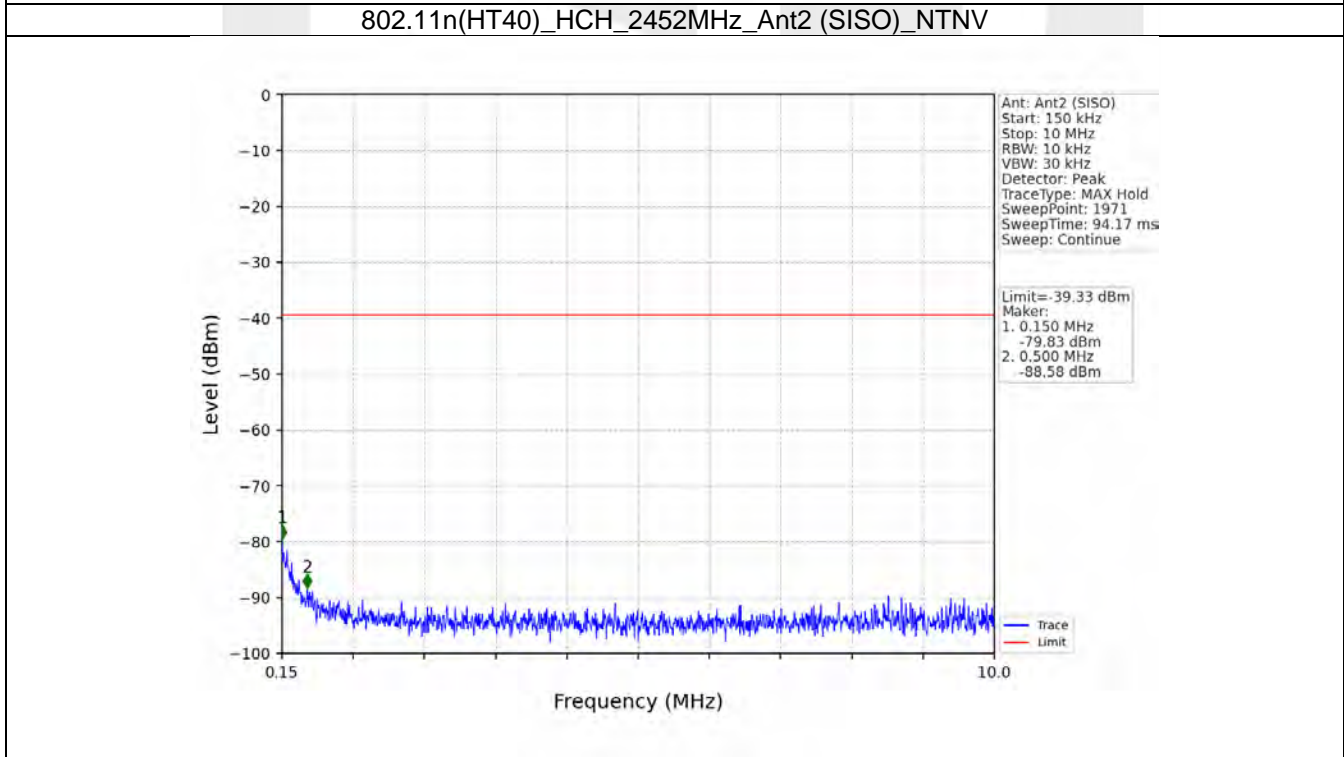
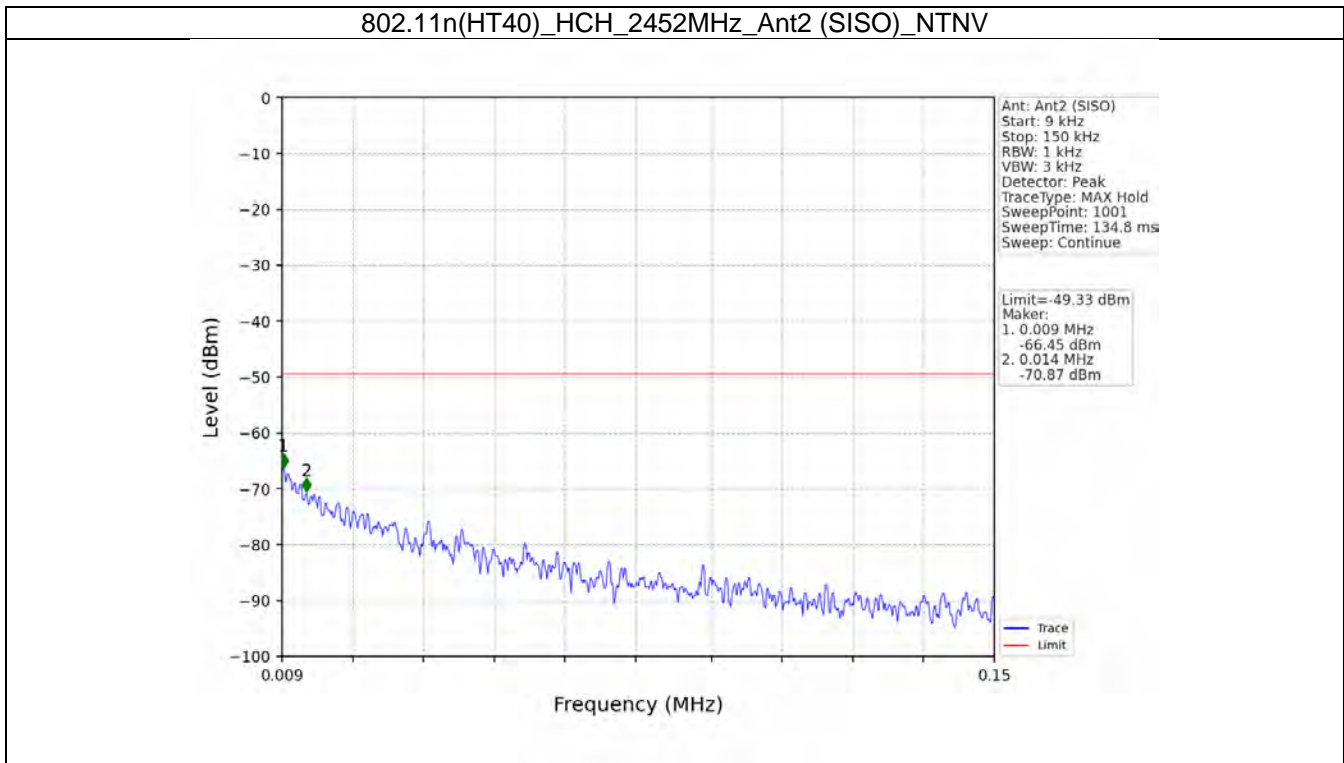


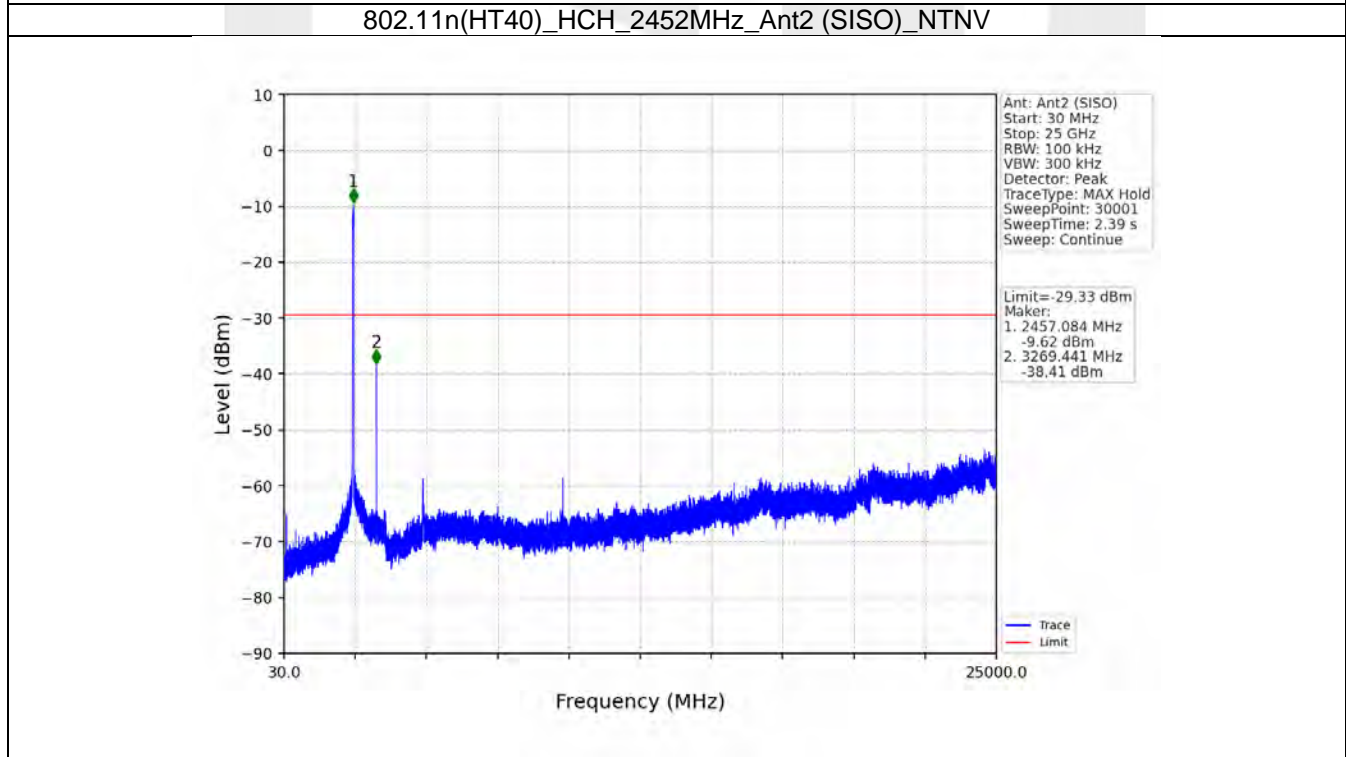
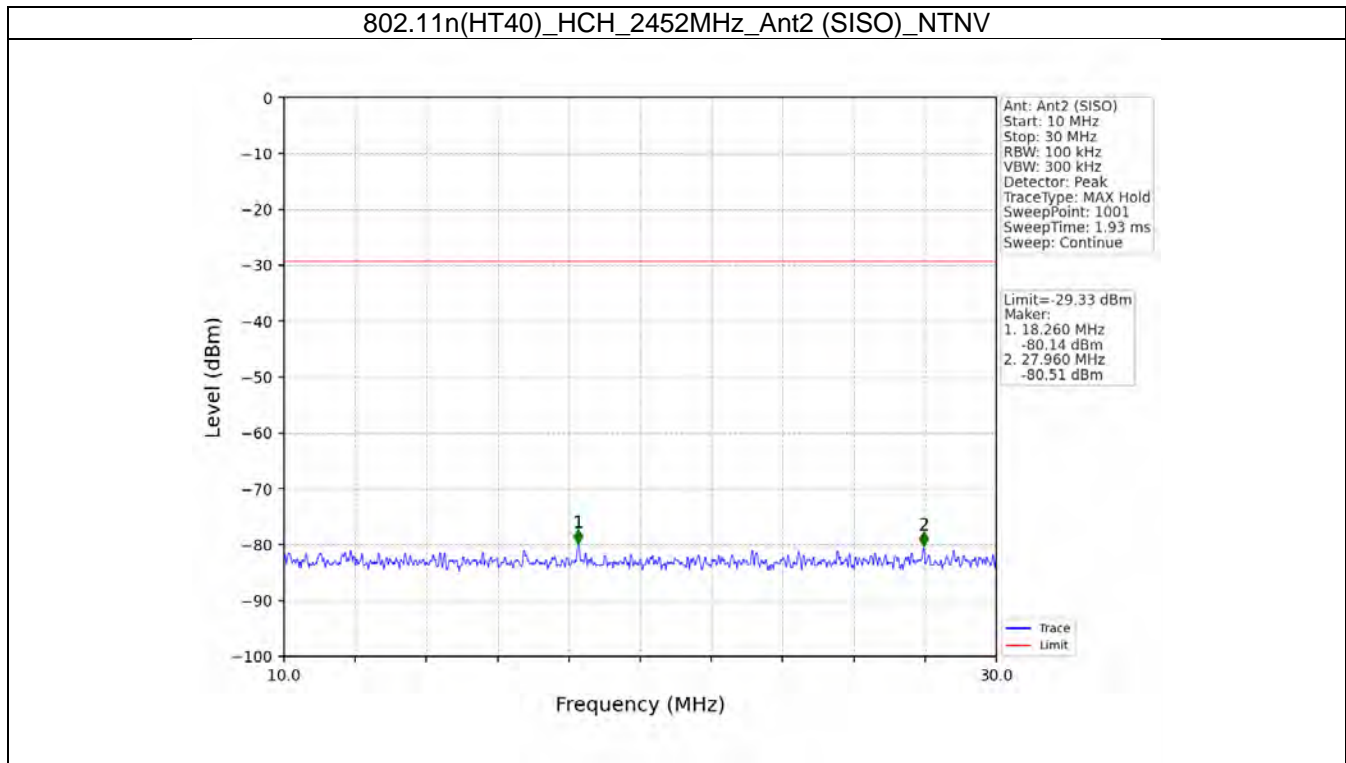












----- End of Report -----