Appendix Test Data for WLAN(2.4G) (Conducted Measurement)

Product Name: Dash Camera
Trade Mark: BCUOZ, HOEMYER
Test Model:D7
FCC ID: 2BGQO-D7

Environmental Conditions

Temperature:	24.2℃
Relative Humidity:	51％
ATM Pressure:	100.0 kPa
Test Engineer:	Tony luo
Supervised by:	Max zhang
NOTE	N/A

1. Duty Cycle

1.1 Test Result

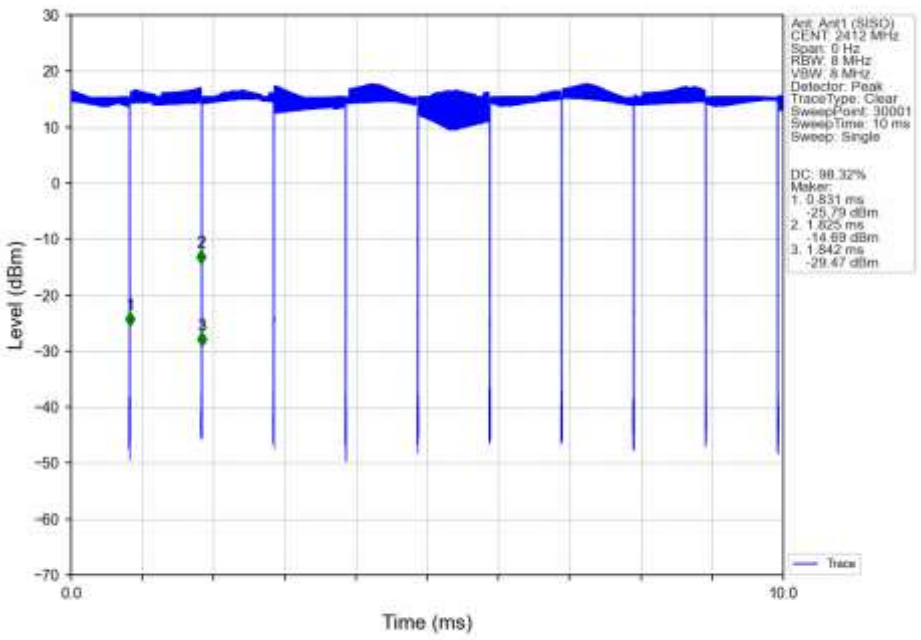
1.1.1 Ant1

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	0.994	1.011	98.32	0.07	0.03
		2437	8.387	8.404	99.80	0.01	0.00
		2462	8.387	8.403	99.81	0.01	0.00
802.11g	SISO	2412	1.393	1.410	98.79	0.05	0.00
		2437	1.393	1.410	98.79	0.05	0.03
		2462	1.393	1.409	98.86	0.05	0.03
802.11n (HT20)	SISO	2412	5.084	5.101	99.67	0.01	0.04
		2437	5.085	5.103	99.65	0.02	0.04
		2462	5.085	5.103	99.65	0.02	0.04
802.11n (HT40)	SISO	2422	2.468	2.485	99.32	0.03	0.03
		2437	2.468	2.486	99.28	0.03	0.03
		2452	2.469	2.486	99.32	0.03	0.03

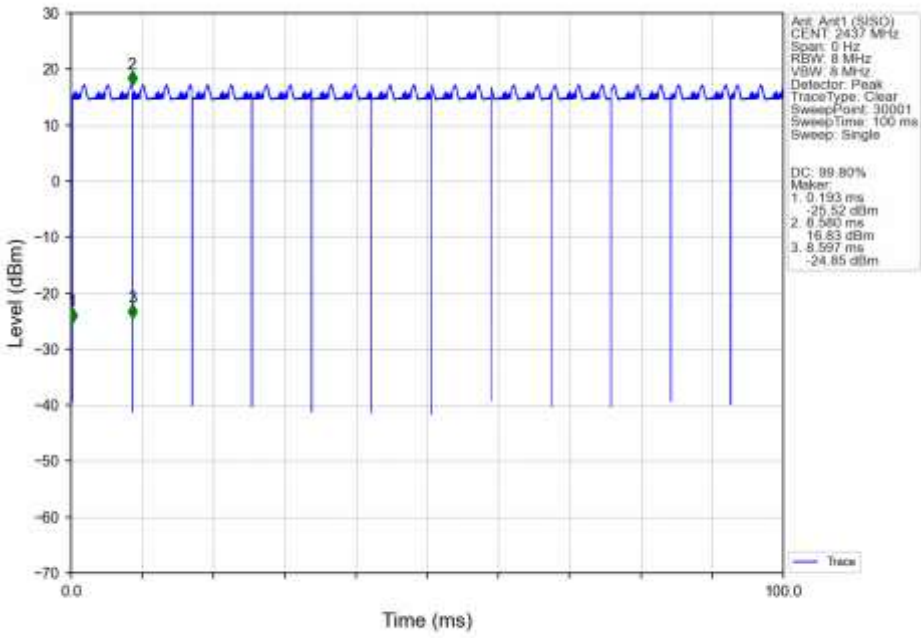
1.2 Test Graph

1.2.1 Ant1

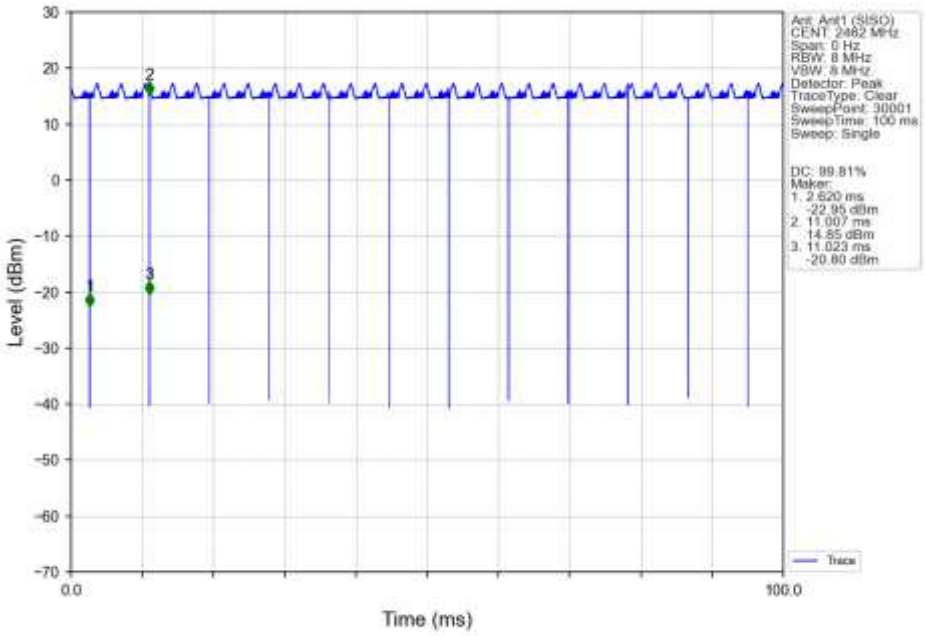
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



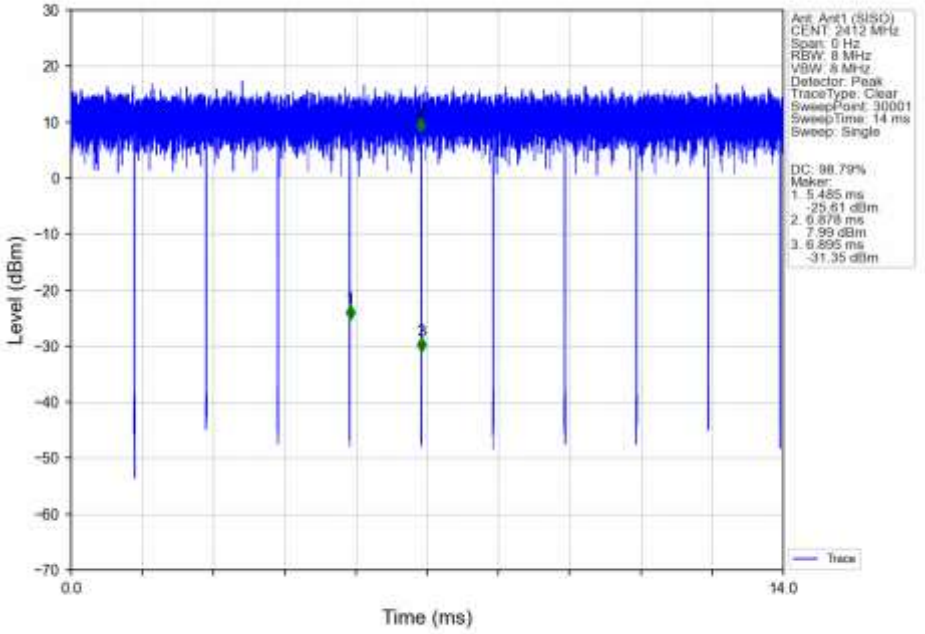
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



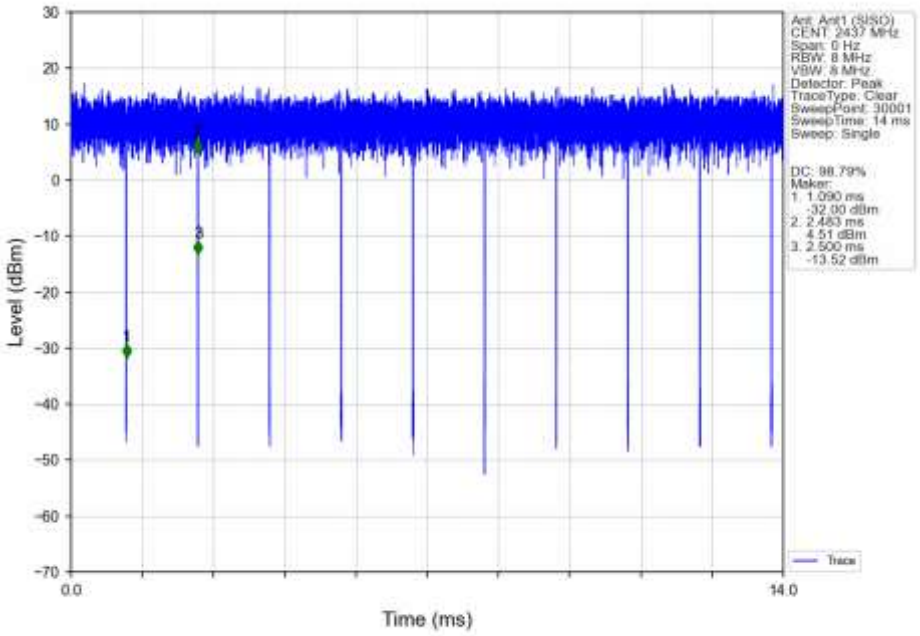
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



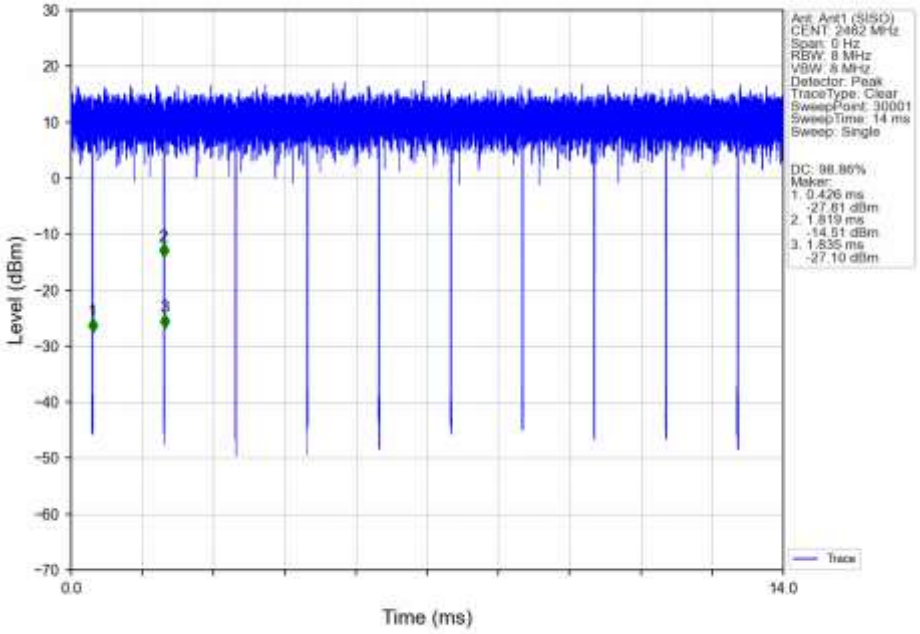
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



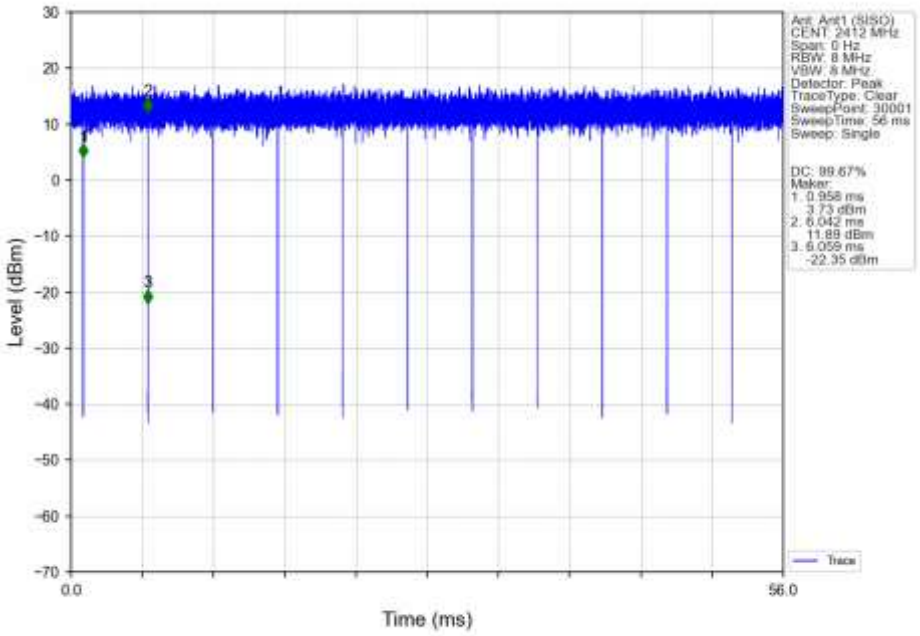
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



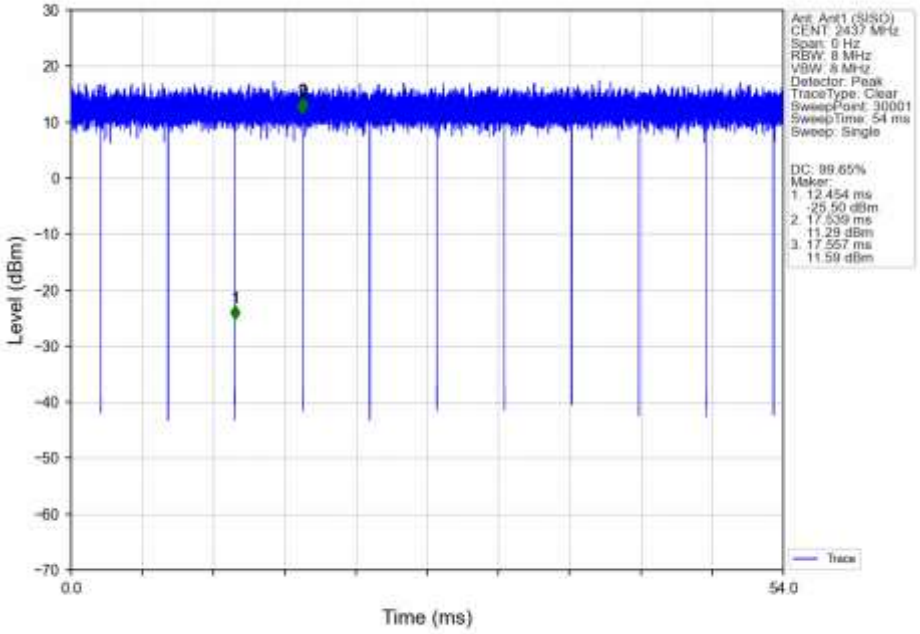
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



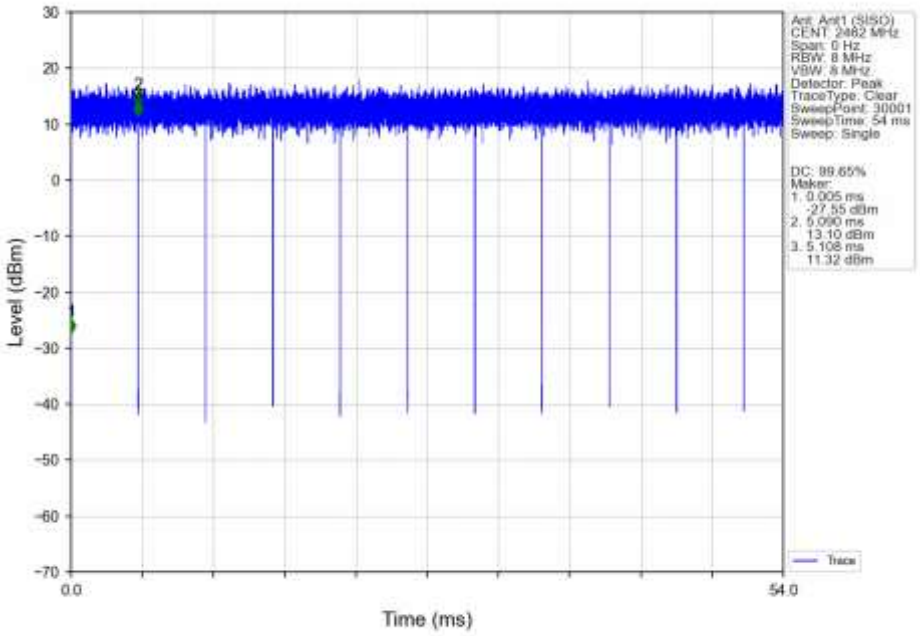
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



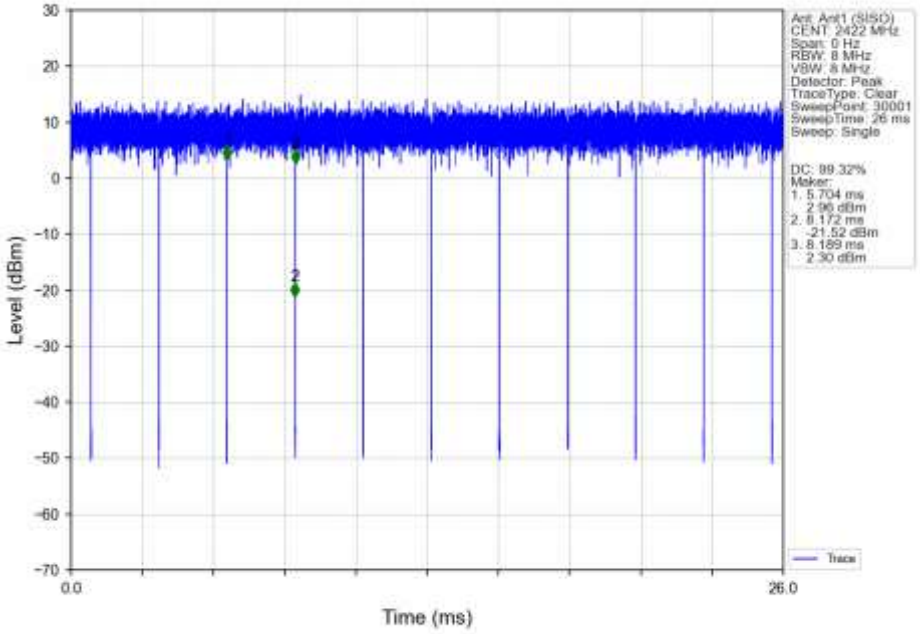
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



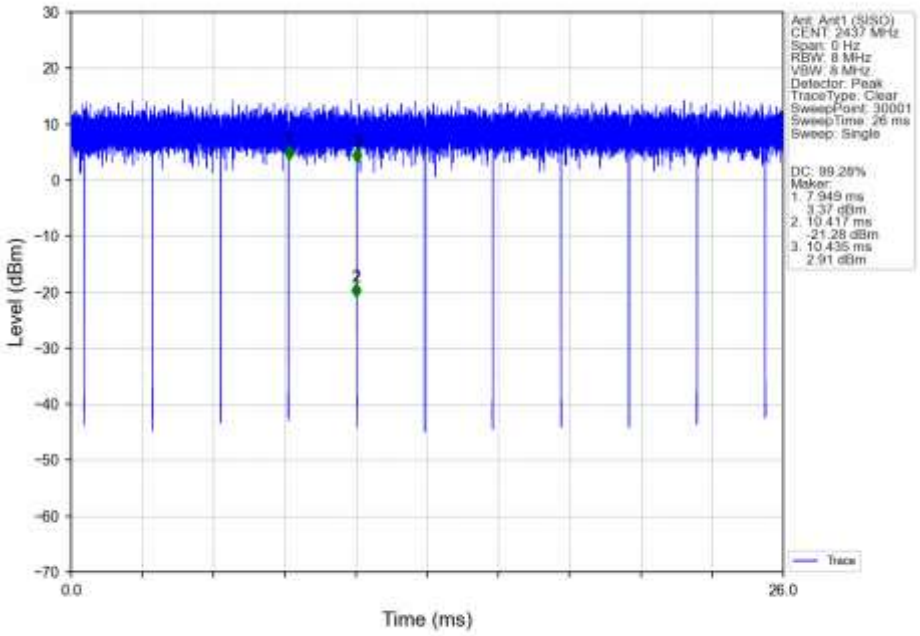
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



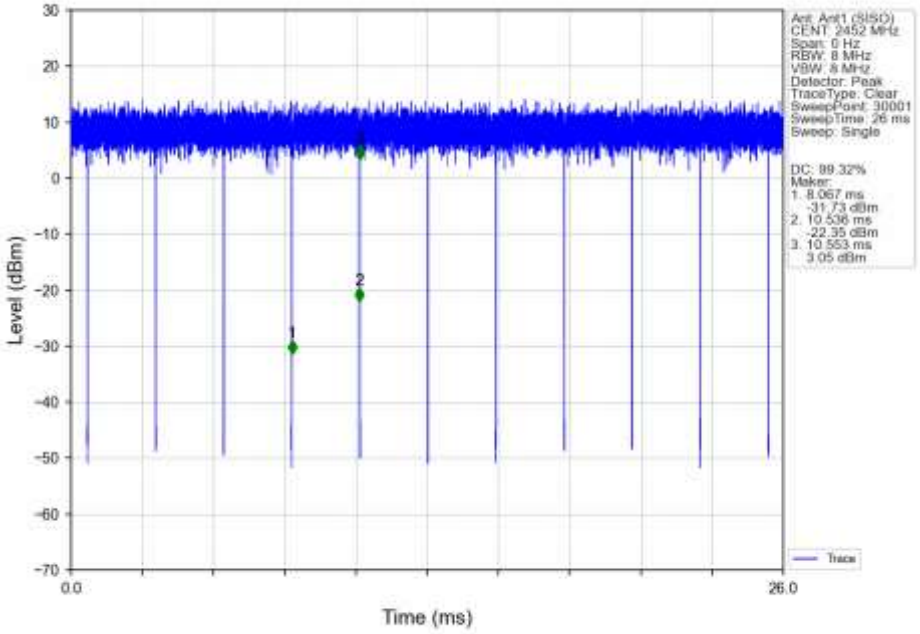
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_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	13.308	/	Pass
		2437	1	13.254	/	Pass
		2462	1	13.233	/	Pass
802.11g	SISO	2412	1	17.596	/	Pass
		2437	1	17.601	/	Pass
		2462	1	17.598	/	Pass
802.11n (HT20)	SISO	2412	1	18.349	/	Pass
		2437	1	18.341	/	Pass
		2462	1	18.315	/	Pass
802.11n (HT40)	SISO	2422	1	36.218	/	Pass
		2437	1	36.204	/	Pass
		2452	1	36.173	/	Pass

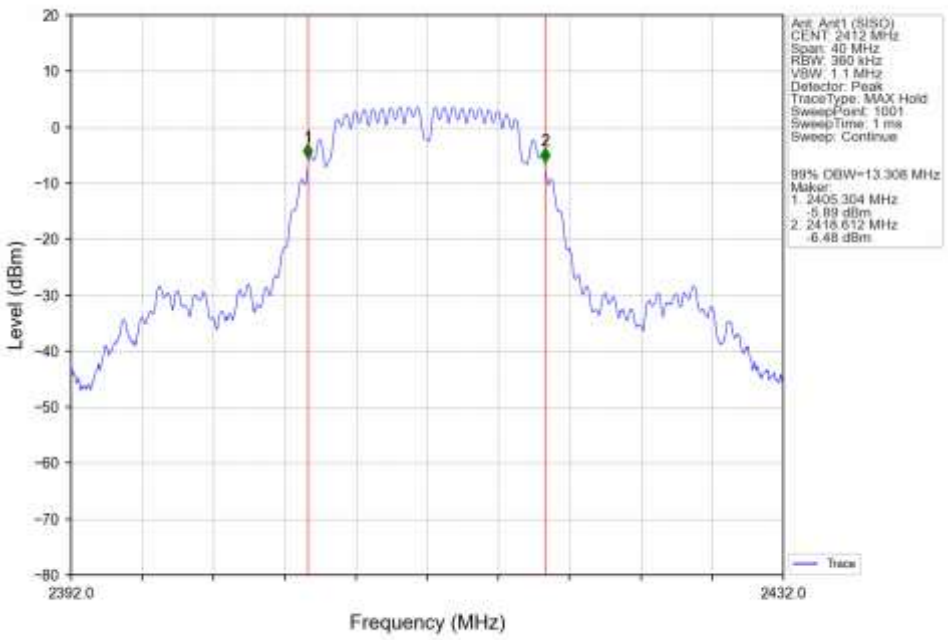
2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	12.121	>=0.5	Pass
		2437	1	12.123	>=0.5	Pass
		2462	1	12.114	>=0.5	Pass
802.11g	SISO	2412	1	15.967	>=0.5	Pass
		2437	1	15.993	>=0.5	Pass
		2462	1	16.029	>=0.5	Pass
802.11n (HT20)	SISO	2412	1	17.262	>=0.5	Pass
		2437	1	17.248	>=0.5	Pass
		2462	1	17.274	>=0.5	Pass
802.11n (HT40)	SISO	2422	1	35.244	>=0.5	Pass
		2437	1	35.197	>=0.5	Pass
		2452	1	35.213	>=0.5	Pass

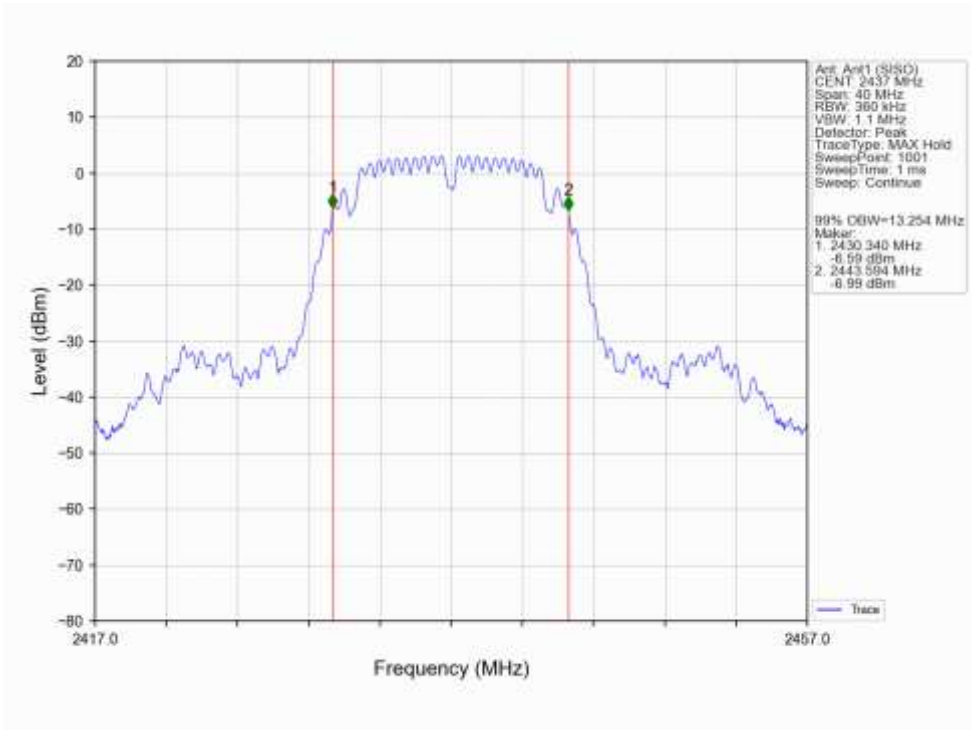
2.2 Test Graph

2.2.1 OBW

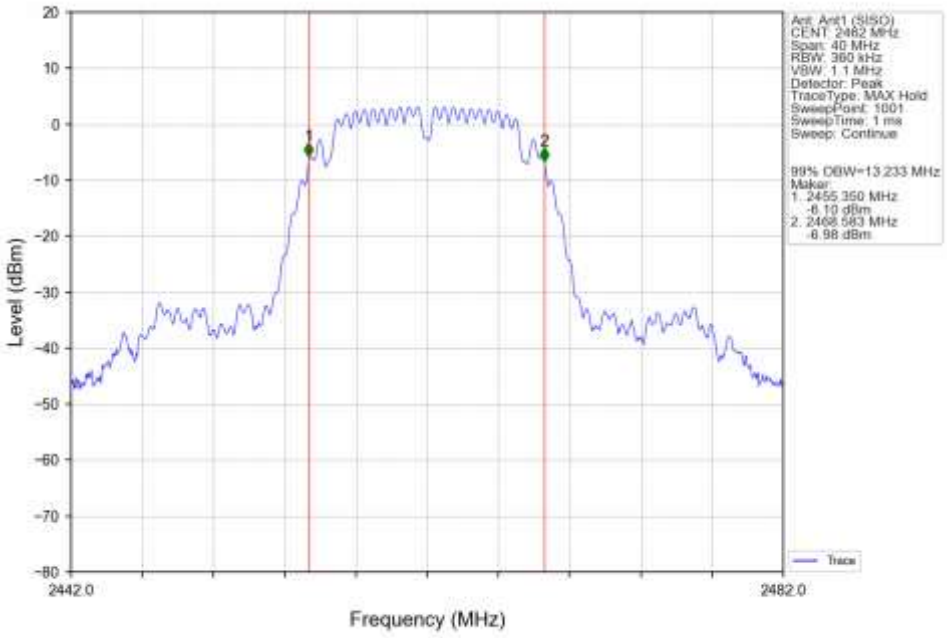
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



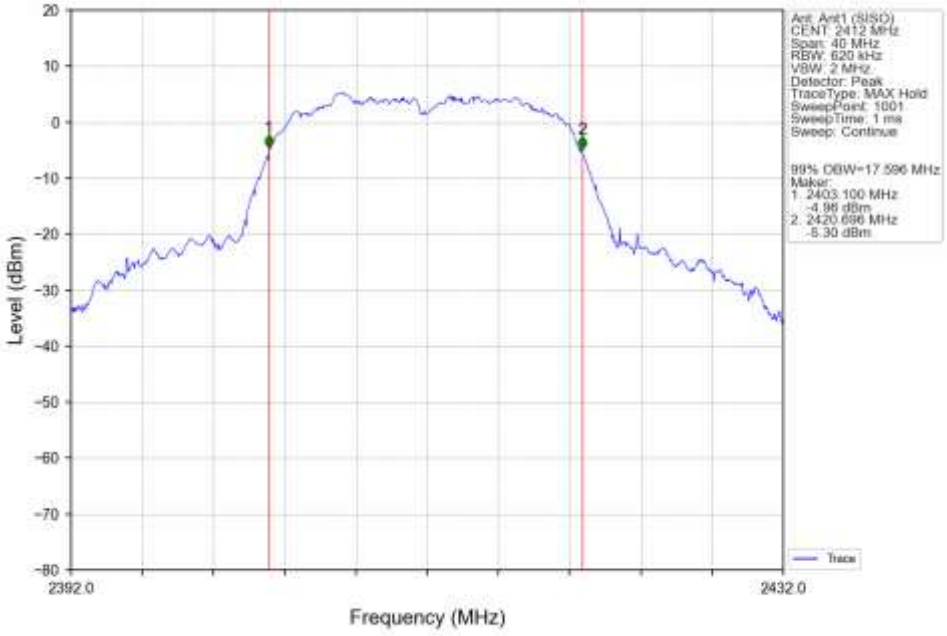
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



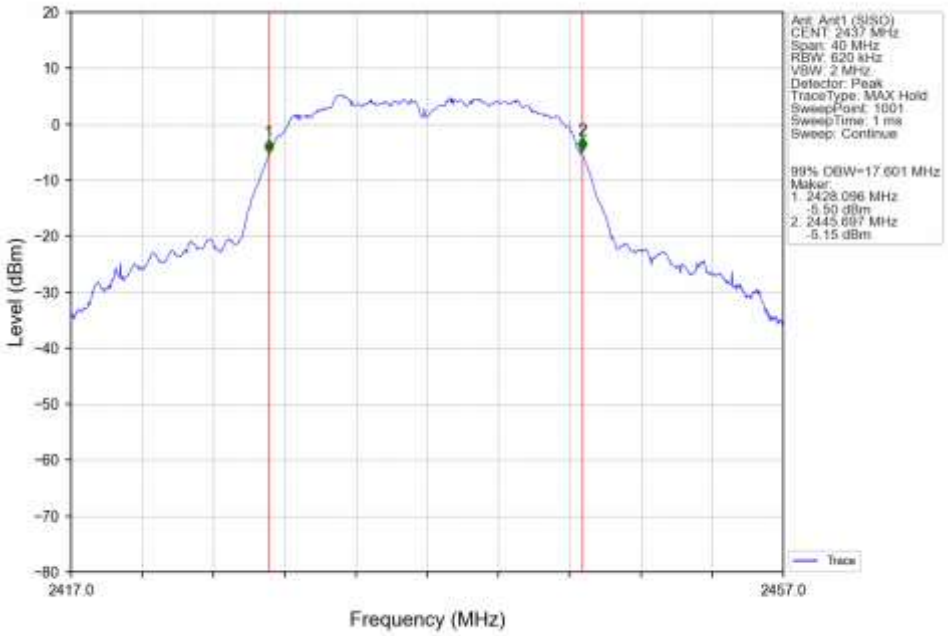
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



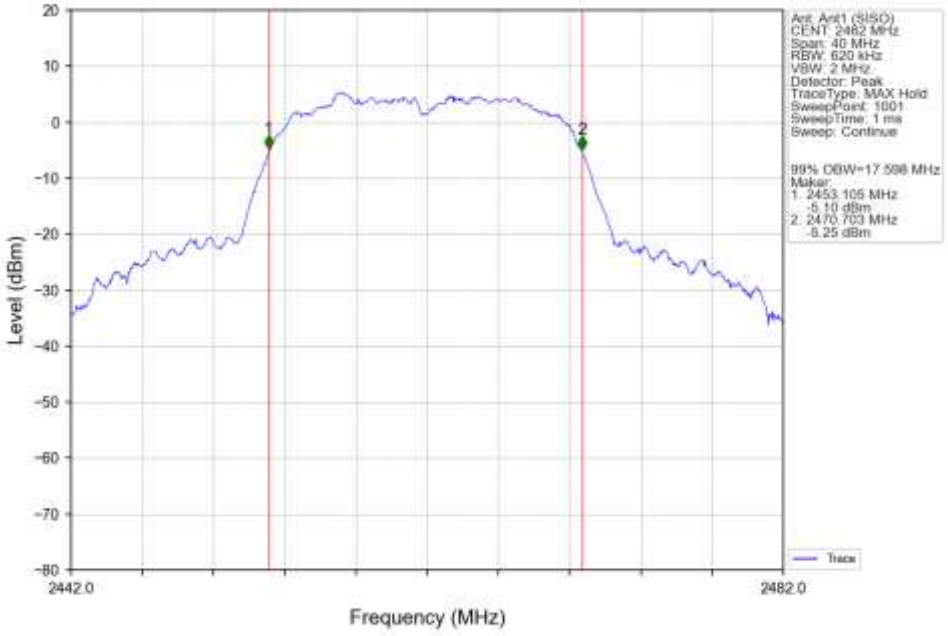
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



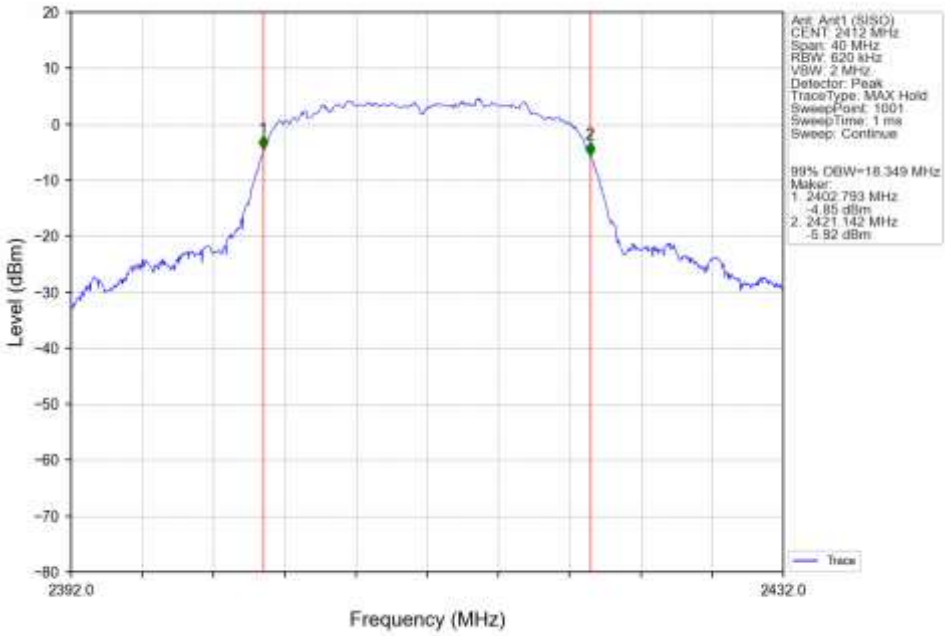
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



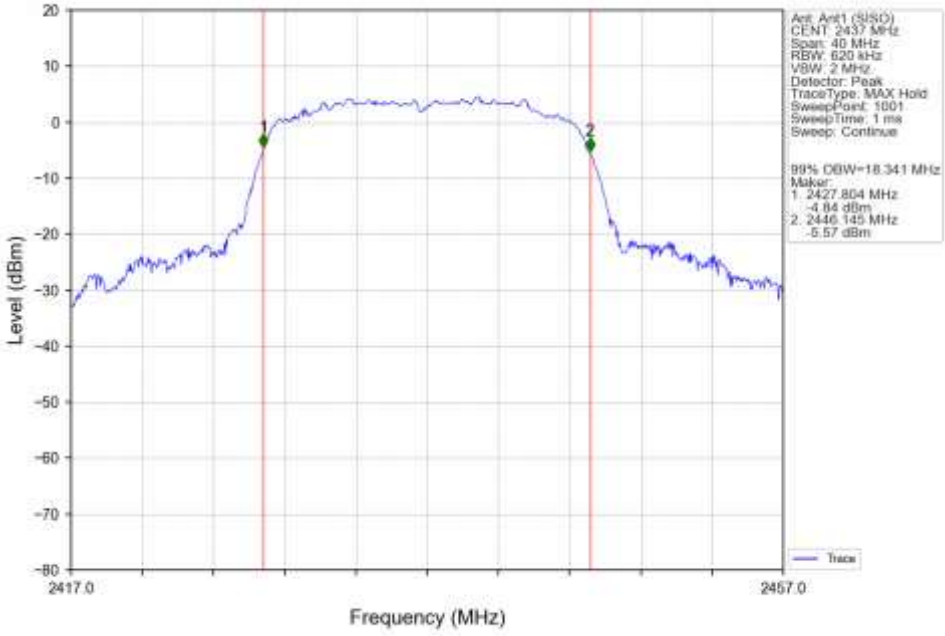
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



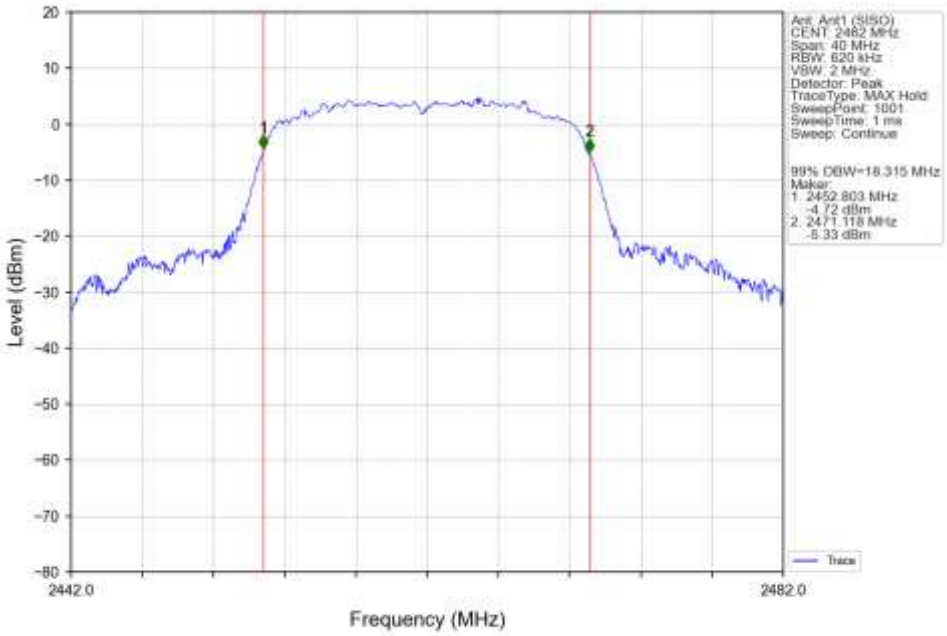
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



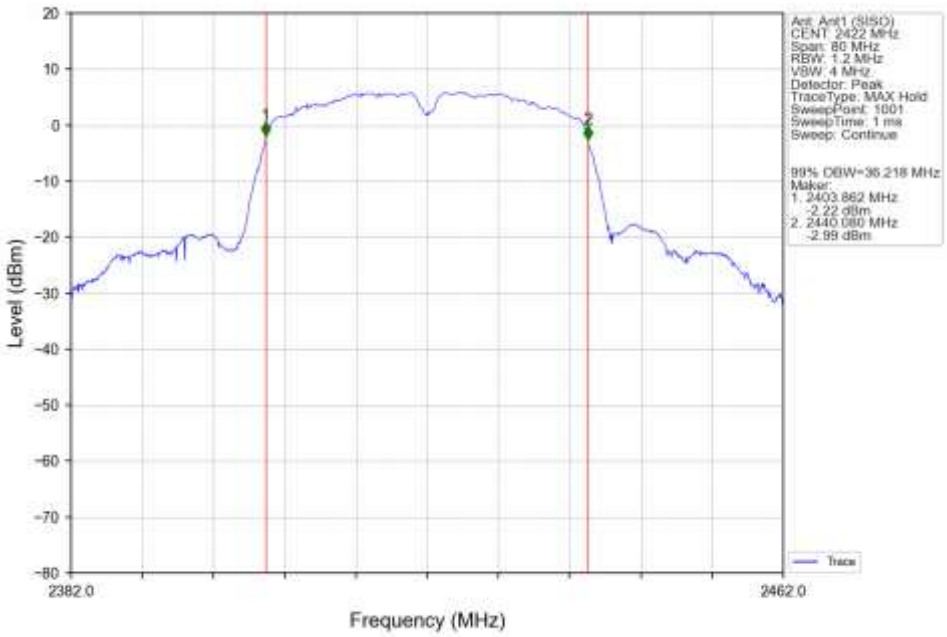
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



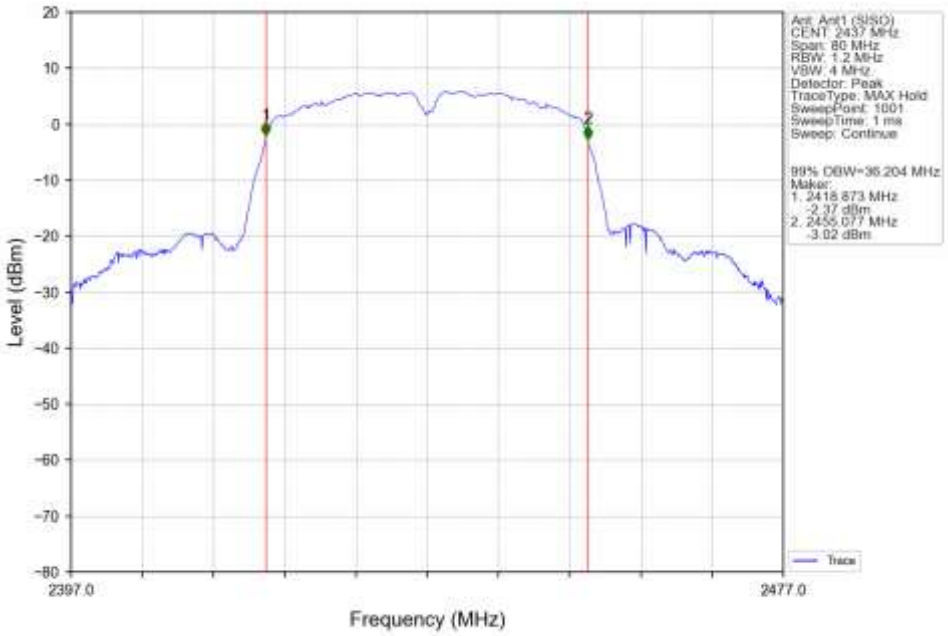
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



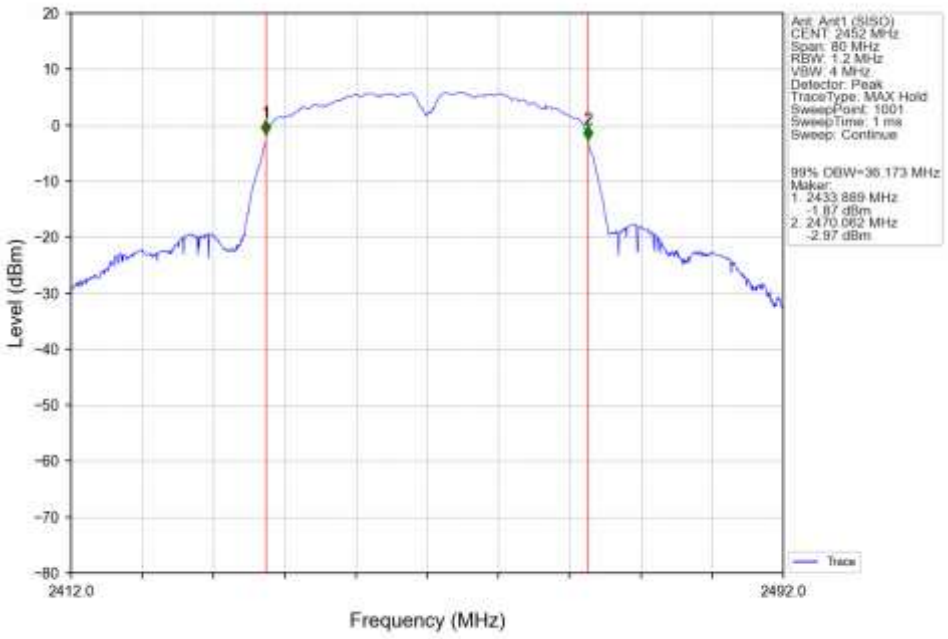
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

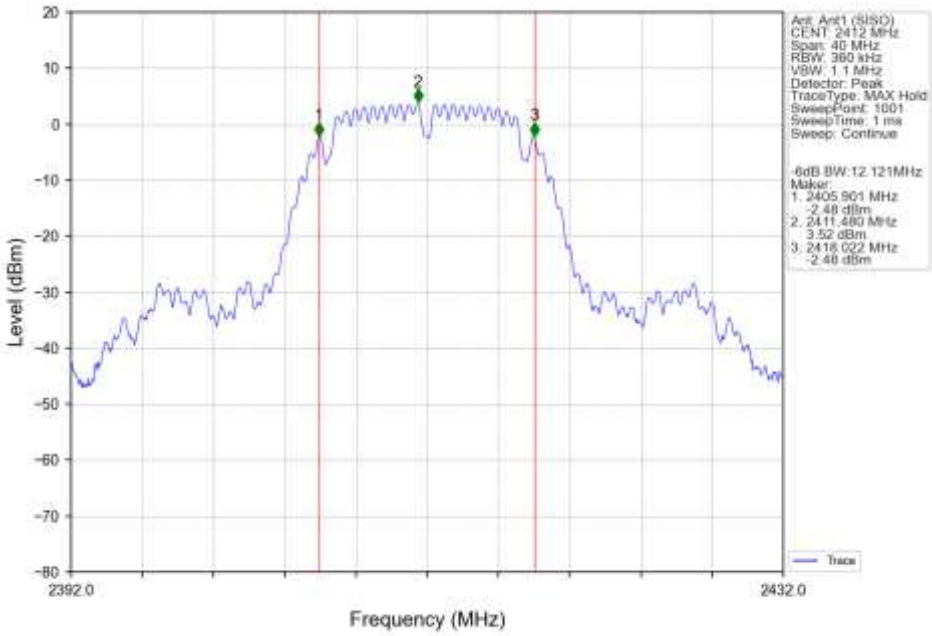


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

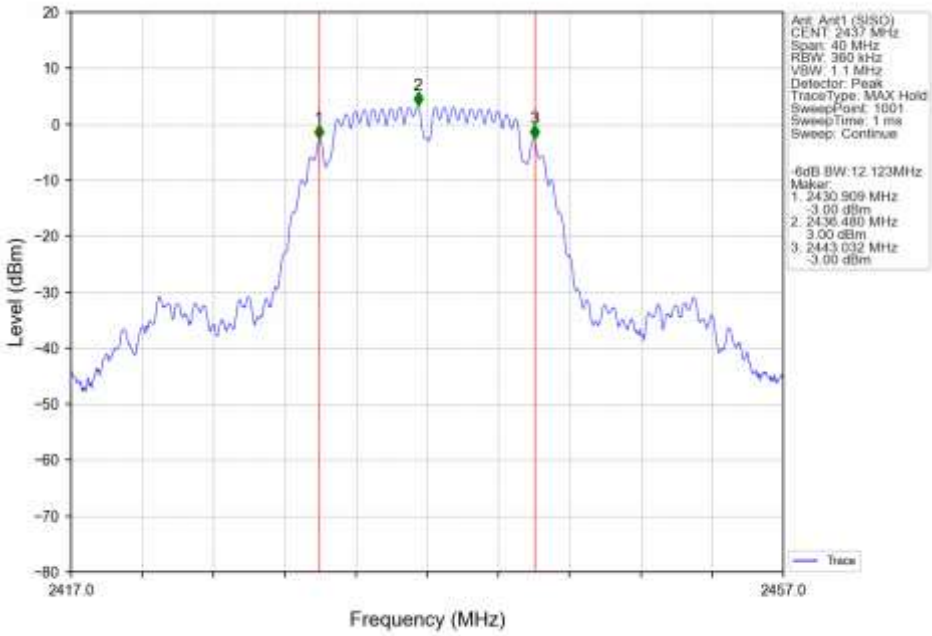


2.2.2 6dB BW

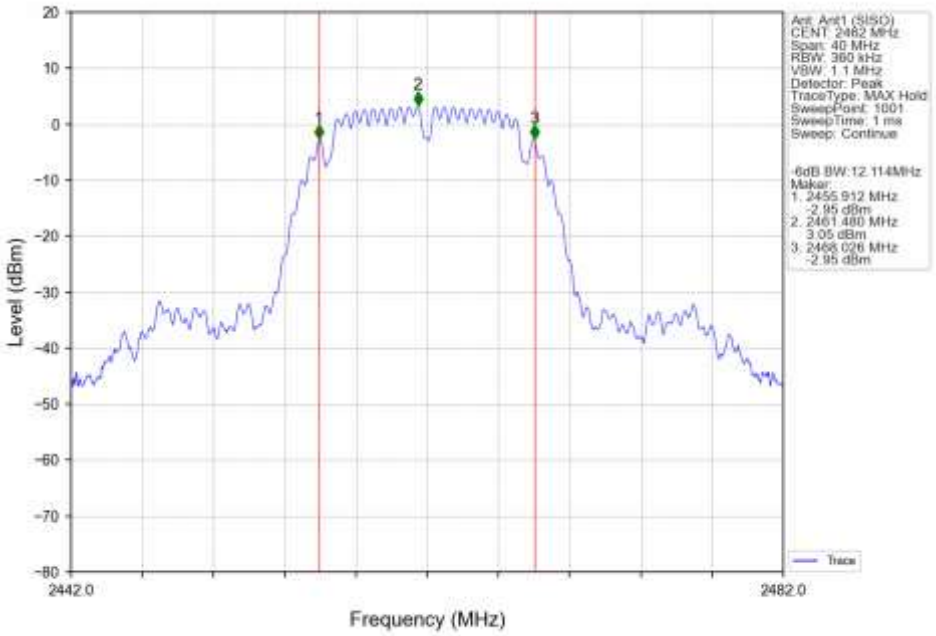
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



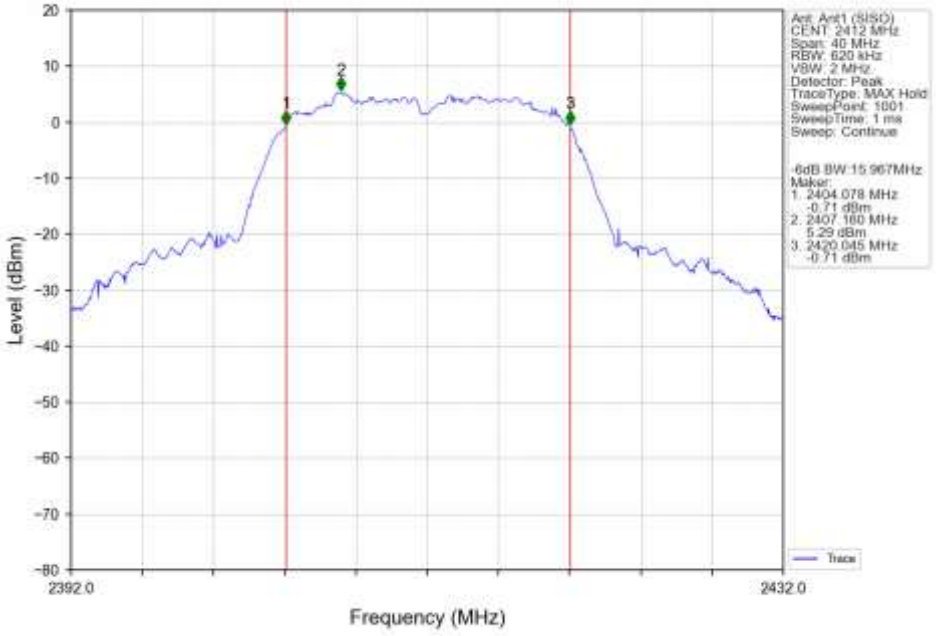
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



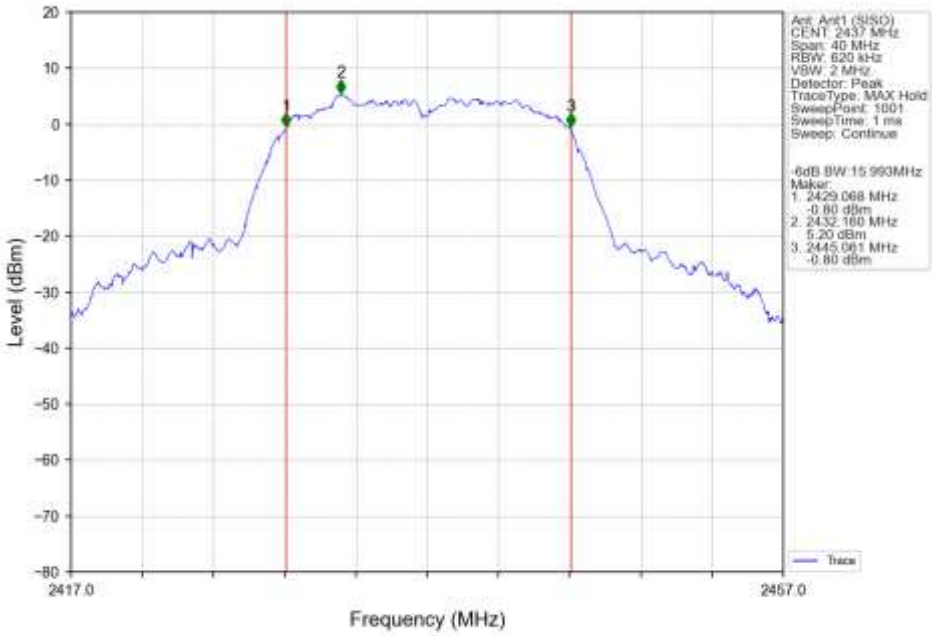
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



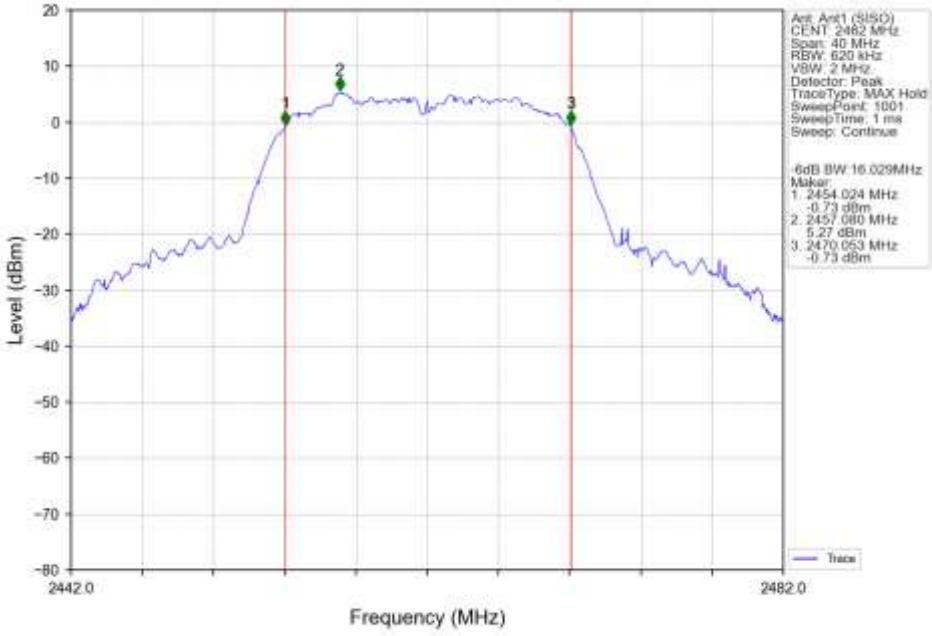
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



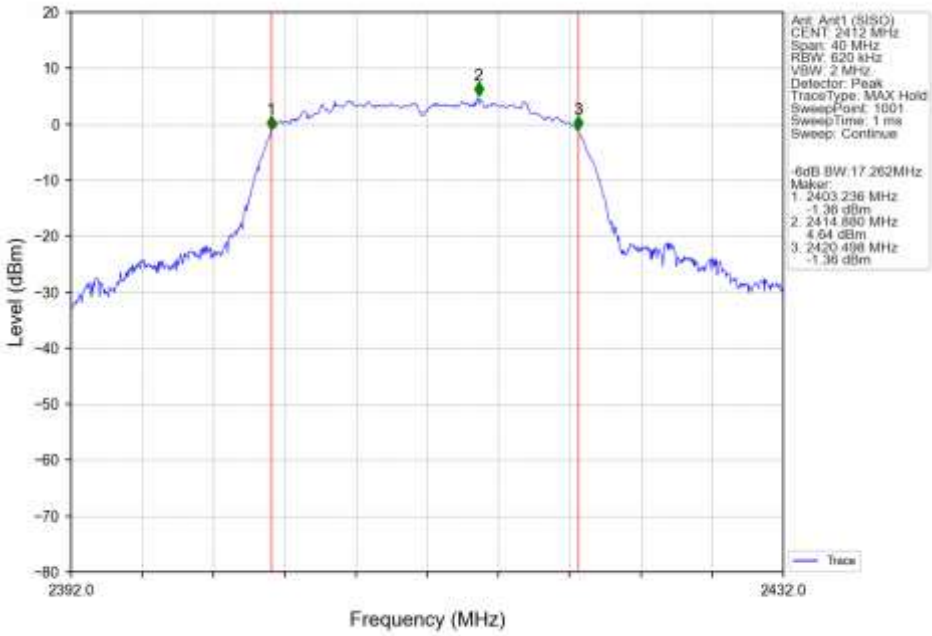
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



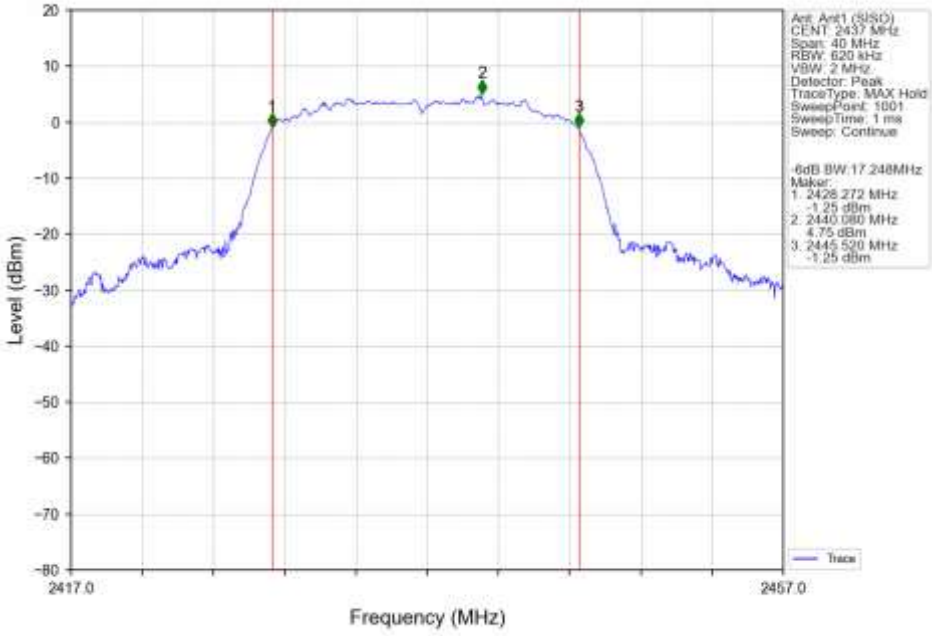
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



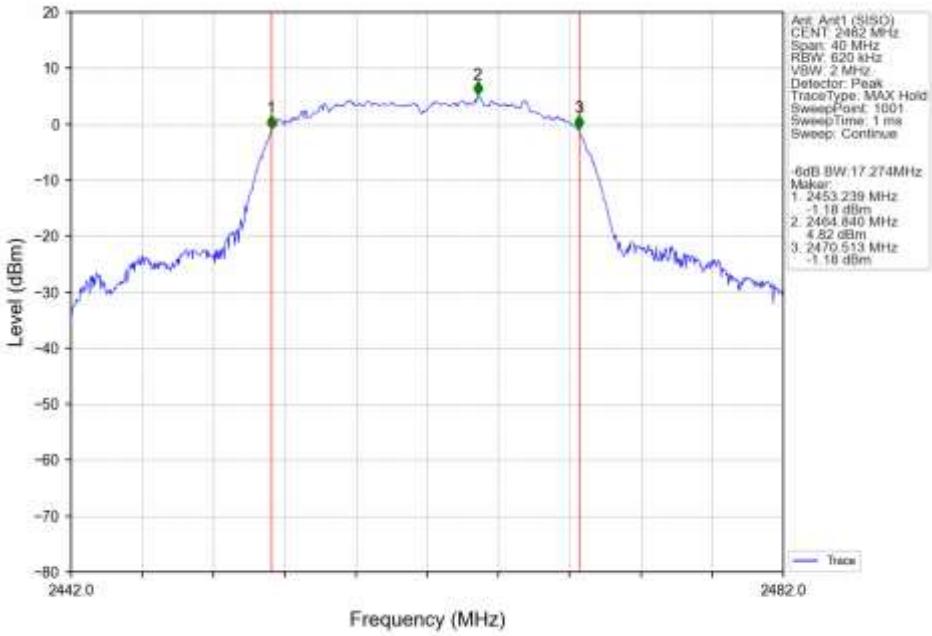
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



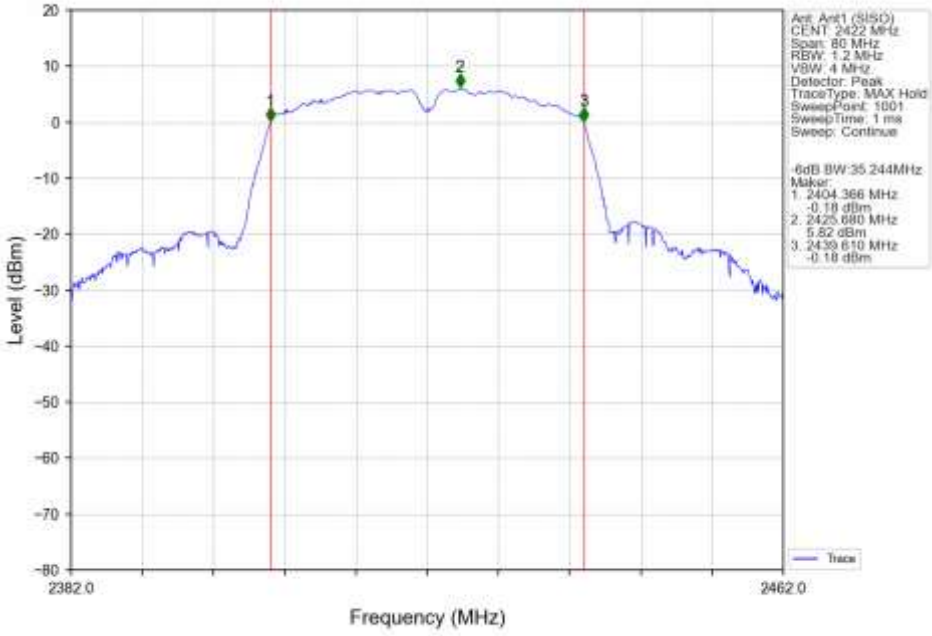
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



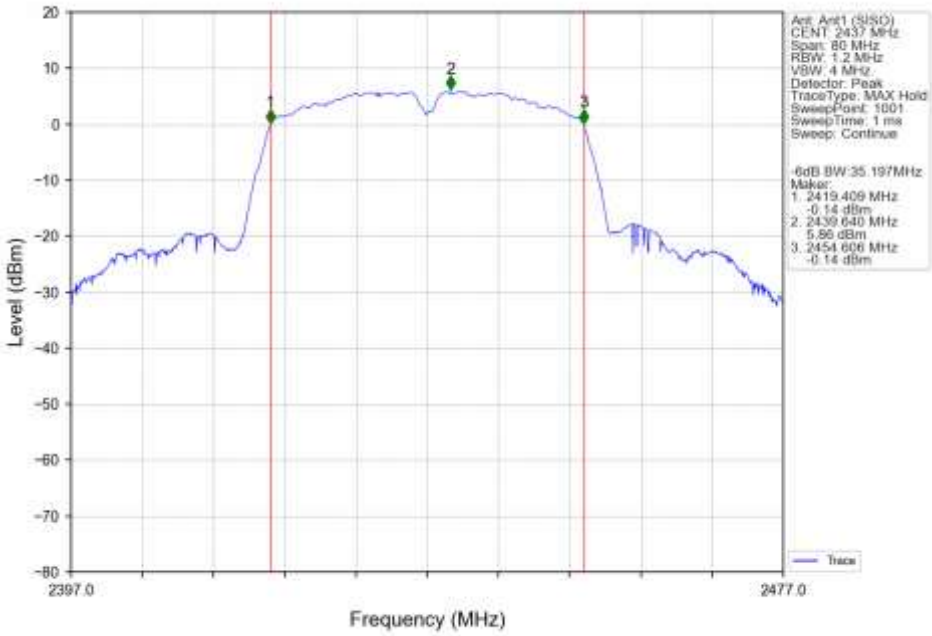
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



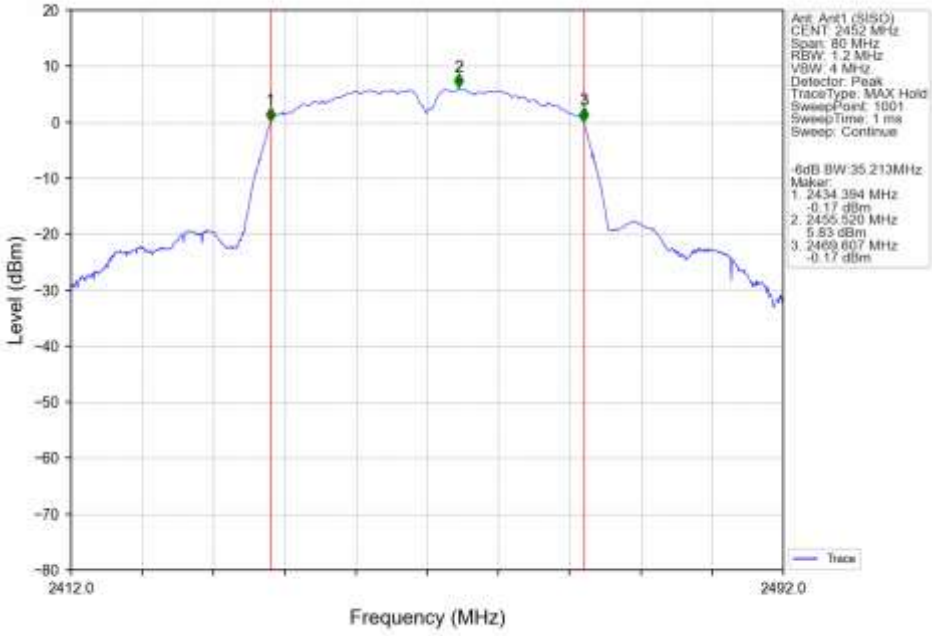
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Average Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	12.96	<=30	Pass
		2437	12.55	<=30	Pass
		2462	12.58	<=30	Pass
802.11g	SISO	2412	10.06	<=30	Pass
		2437	9.99	<=30	Pass
		2462	10.07	<=30	Pass
802.11n (HT20)	SISO	2412	9.98	<=30	Pass
		2437	10.00	<=30	Pass
		2462	10.10	<=30	Pass
802.11n (HT40)	SISO	2422	10.34	<=30	Pass
		2437	10.32	<=30	Pass
		2452	10.34	<=30	Pass
Note1: Antenna Gain: Ant1: 0.41dBi;					

4. Maximum Power Spectral Density

4.1 Test Result

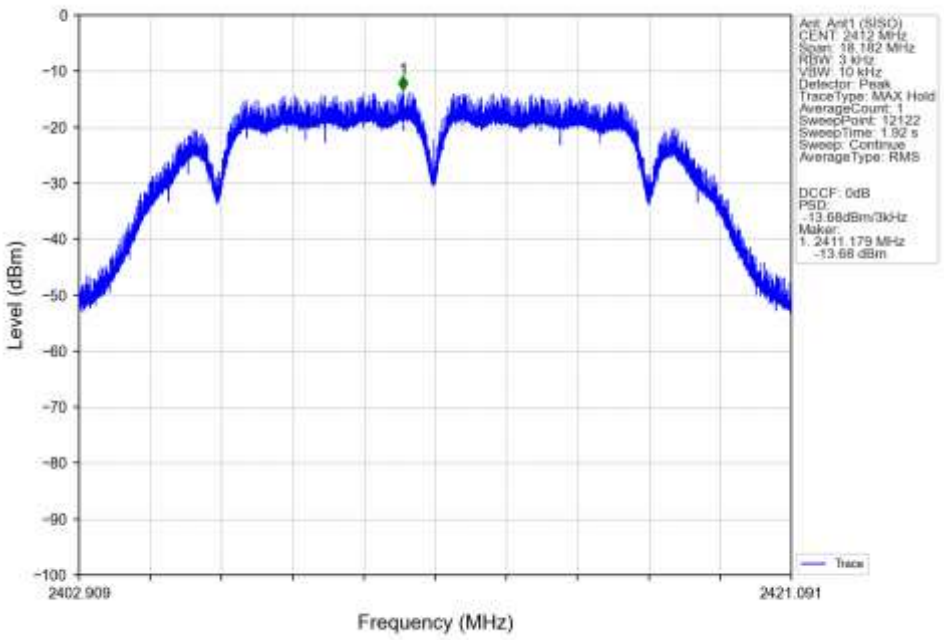
4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-13.68	<=8	Pass
		2437	-14.30	<=8	Pass
		2462	-14.18	<=8	Pass
802.11g	SISO	2412	-15.71	<=8	Pass
		2437	-16.21	<=8	Pass
		2462	-16.79	<=8	Pass
802.11n (HT20)	SISO	2412	-16.87	<=8	Pass
		2437	-16.36	<=8	Pass
		2462	-16.41	<=8	Pass
802.11n (HT40)	SISO	2422	-18.72	<=8	Pass
		2437	-18.10	<=8	Pass
		2452	-17.91	<=8	Pass
Note1: Antenna Gain: Ant1: 0.41dBi;					

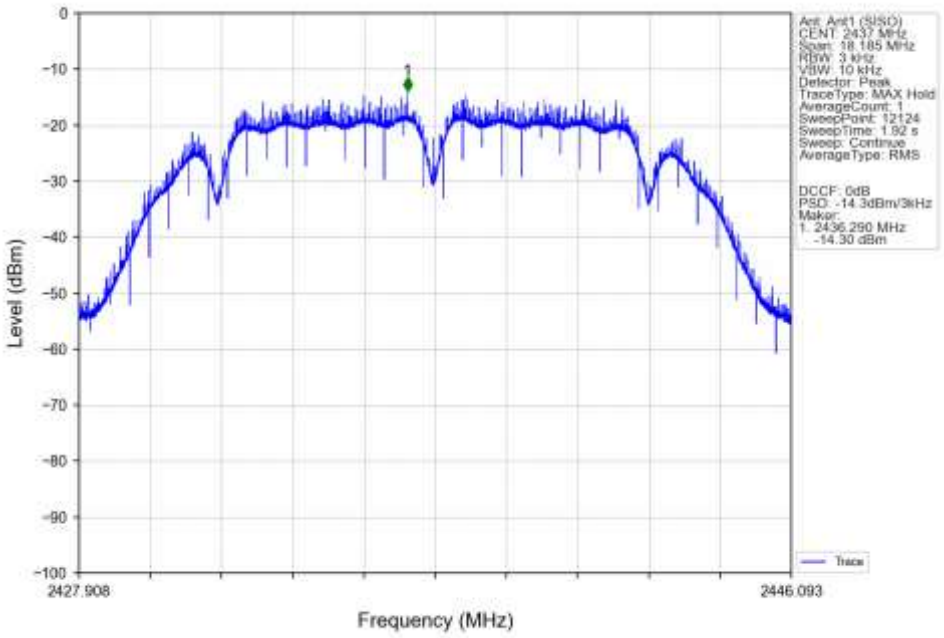
4.2 Test Graph

4.2.1 PSD

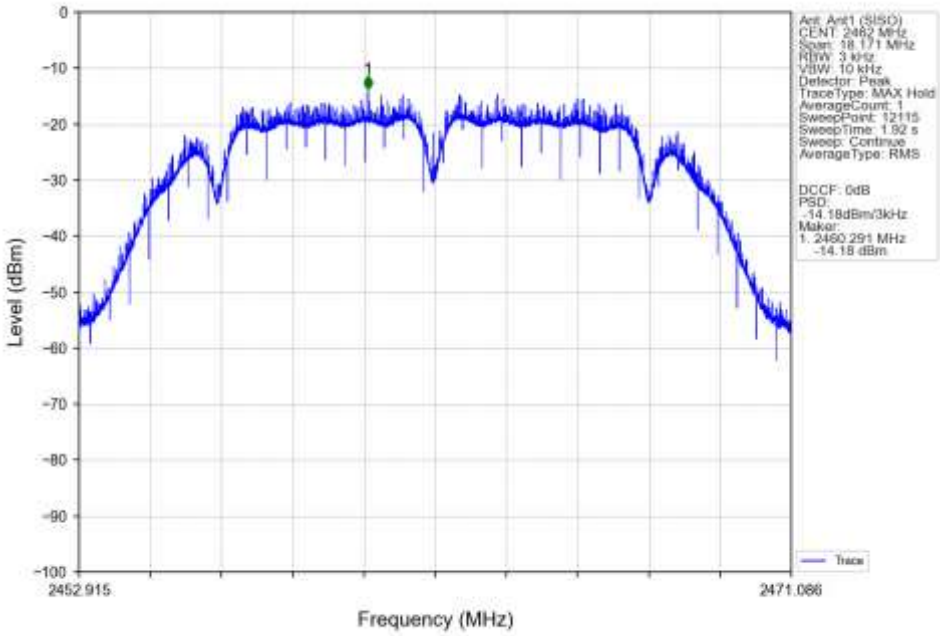
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



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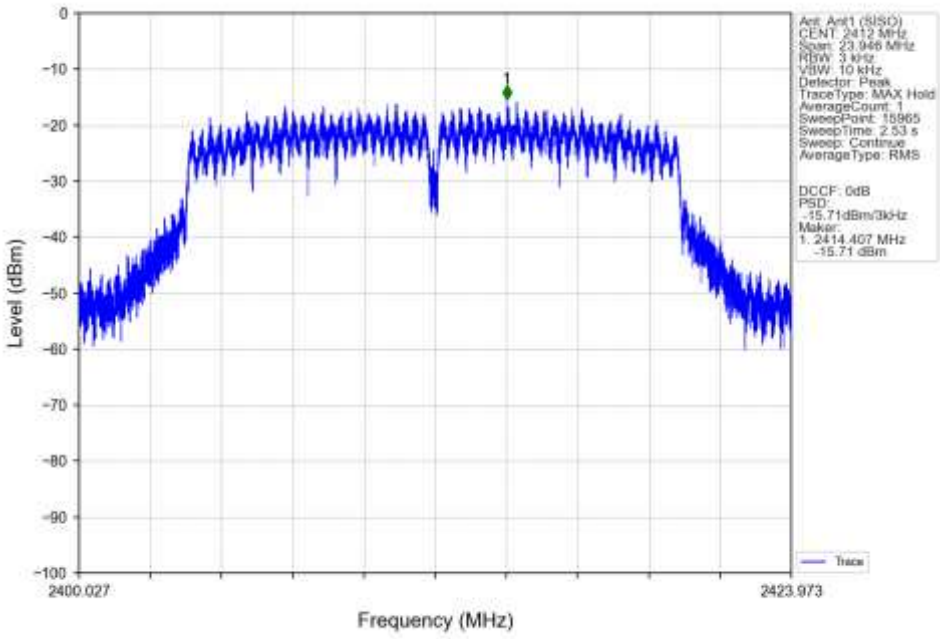
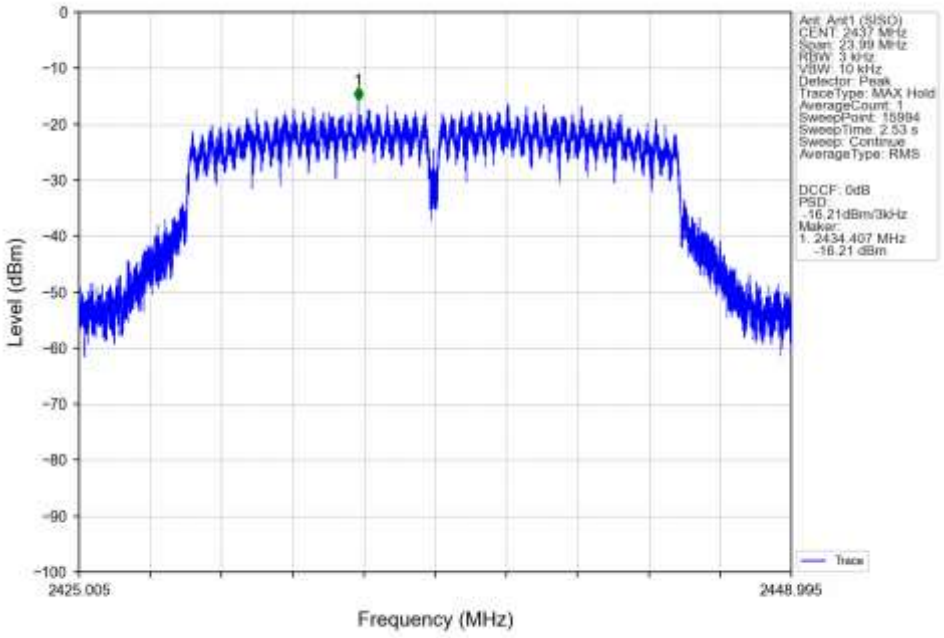


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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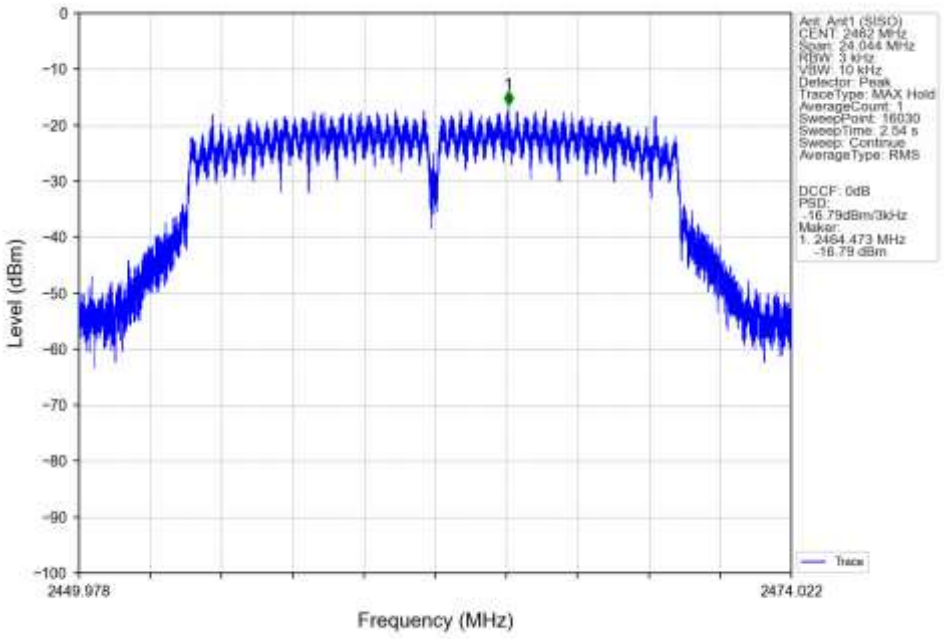
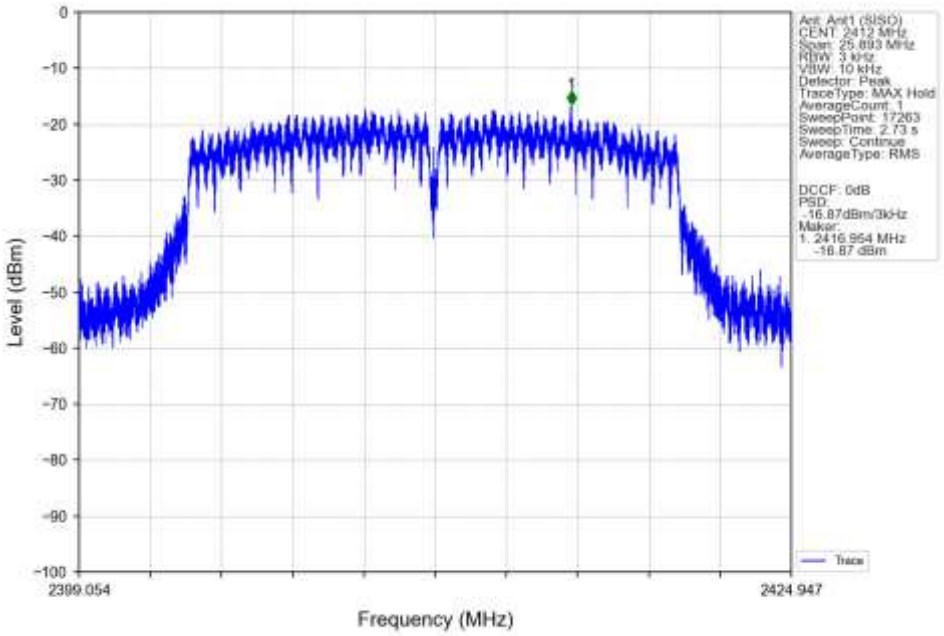


802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



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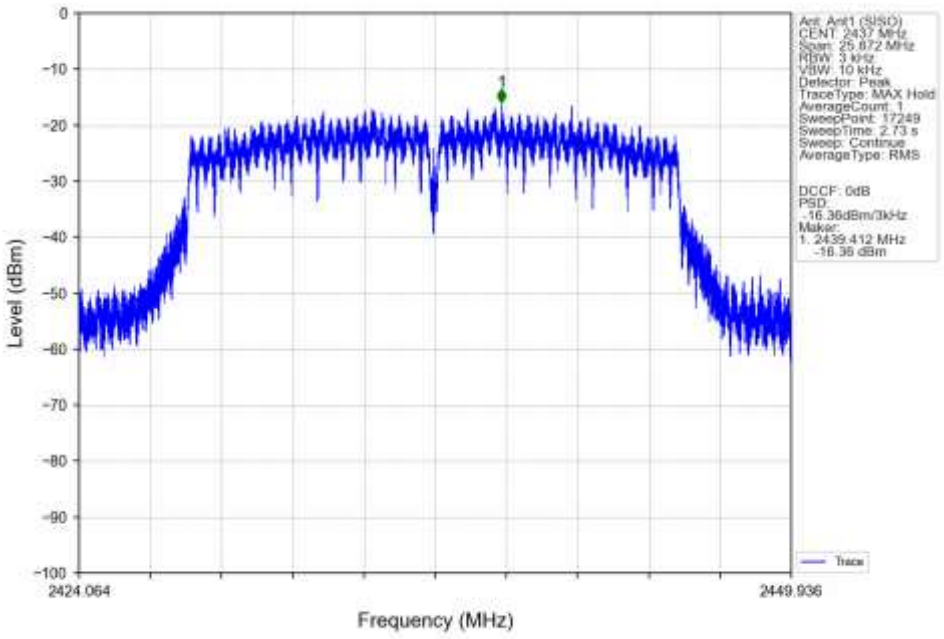

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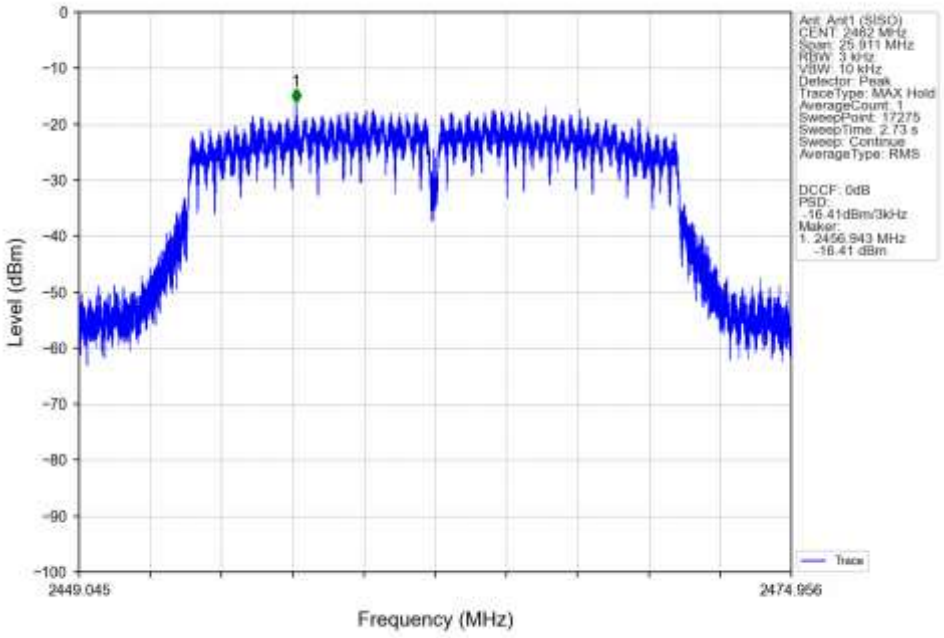
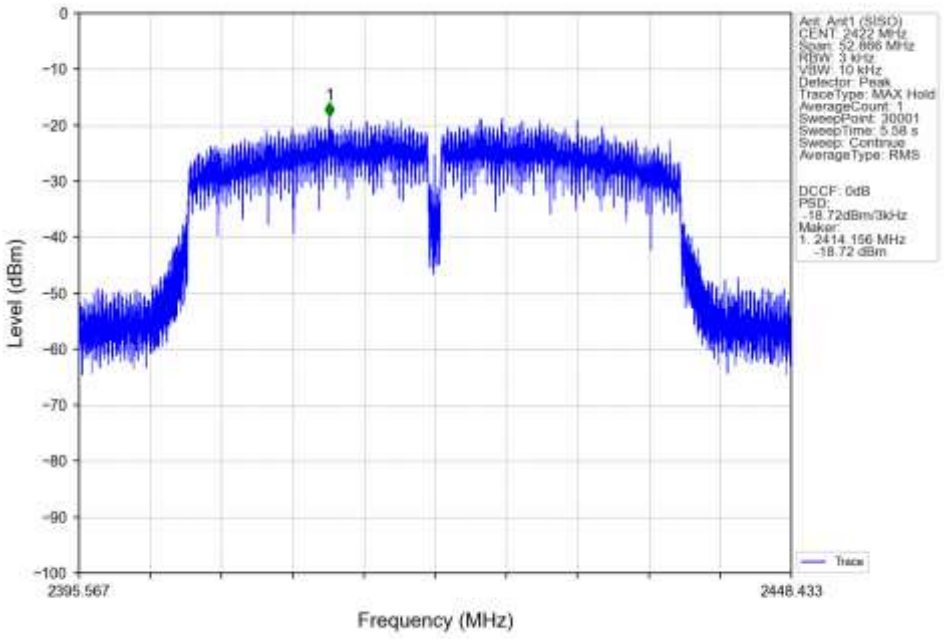
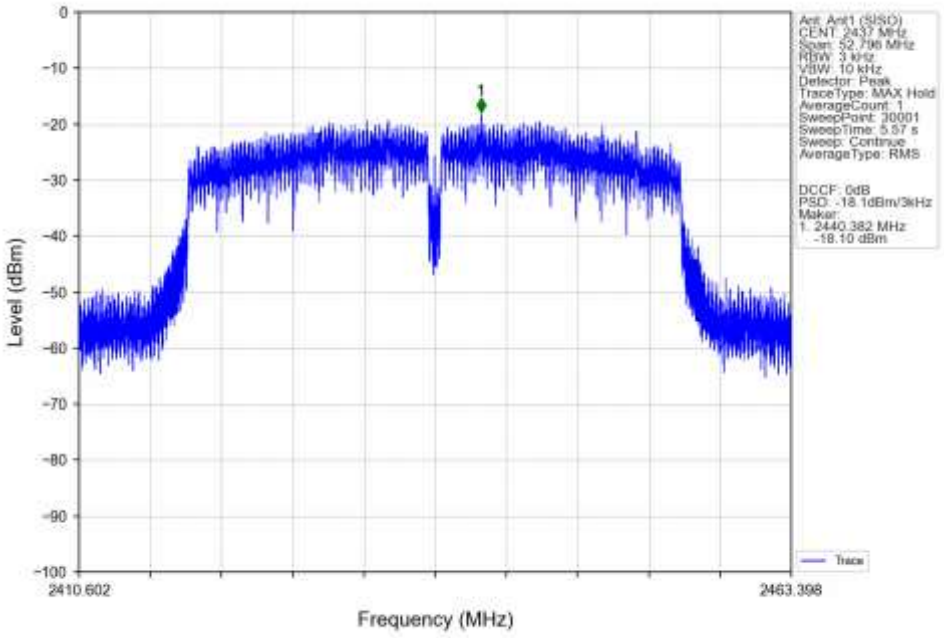


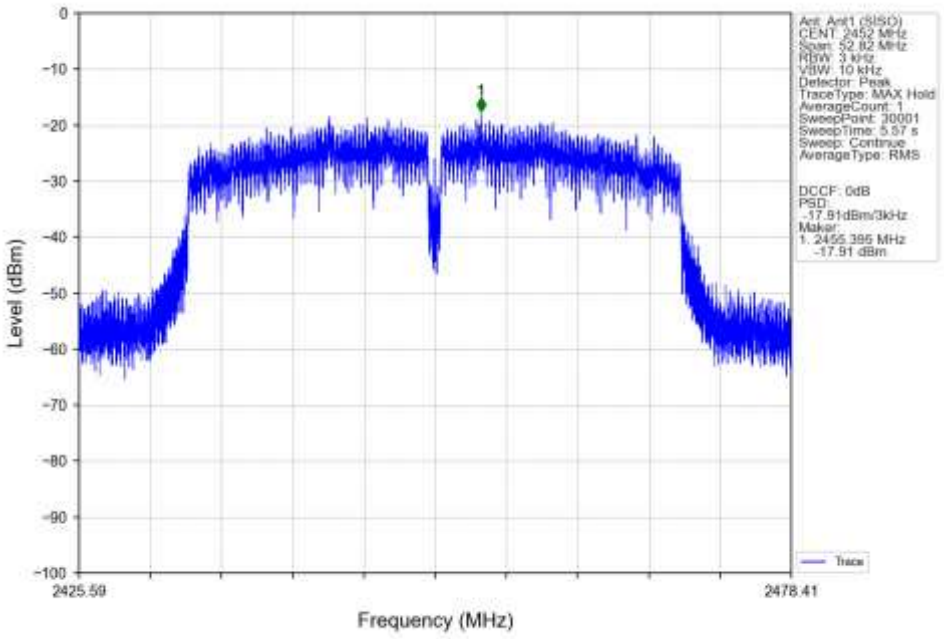
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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	**1.96**
		2437	1	1.73
		2462	1	1.75
802.11g	SISO	2412	1	**-0.61**
		2437	1	-0.66
		2462	1	-0.61
802.11n (HT20)	SISO	2412	1	-0.76
		2437	1	-0.59
		2462	1	**-0.48**
802.11n (HT40)	SISO	2422	1	-3.56
		2437	1	**-3.18**
		2452	1	-3.30
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.				

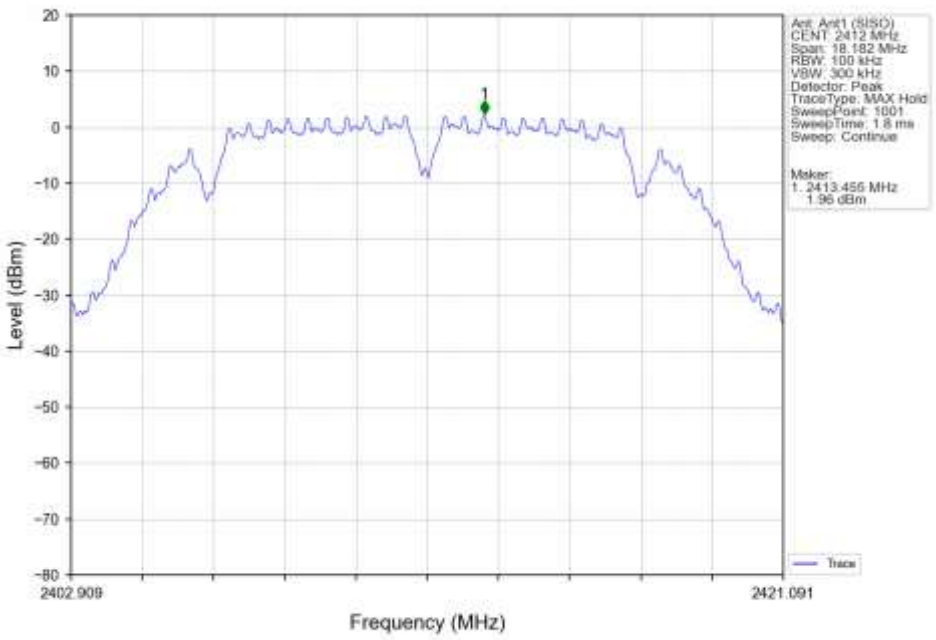
5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	1.96	-28.04	Pass
		2437	1	1.96	-28.04	Pass
		2462	1	1.96	-28.04	Pass
802.11g	SISO	2412	1	-0.61	-30.61	Pass
		2437	1	-0.61	-30.61	Pass
		2462	1	-0.61	-30.61	Pass
802.11n (HT20)	SISO	2412	1	-0.48	-30.48	Pass
		2437	1	-0.48	-30.48	Pass
		2462	1	-0.48	-30.48	Pass
802.11n (HT40)	SISO	2422	1	-3.18	-33.18	Pass
		2437	1	-3.18	-33.18	Pass
		2452	1	-3.18	-33.18	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.						

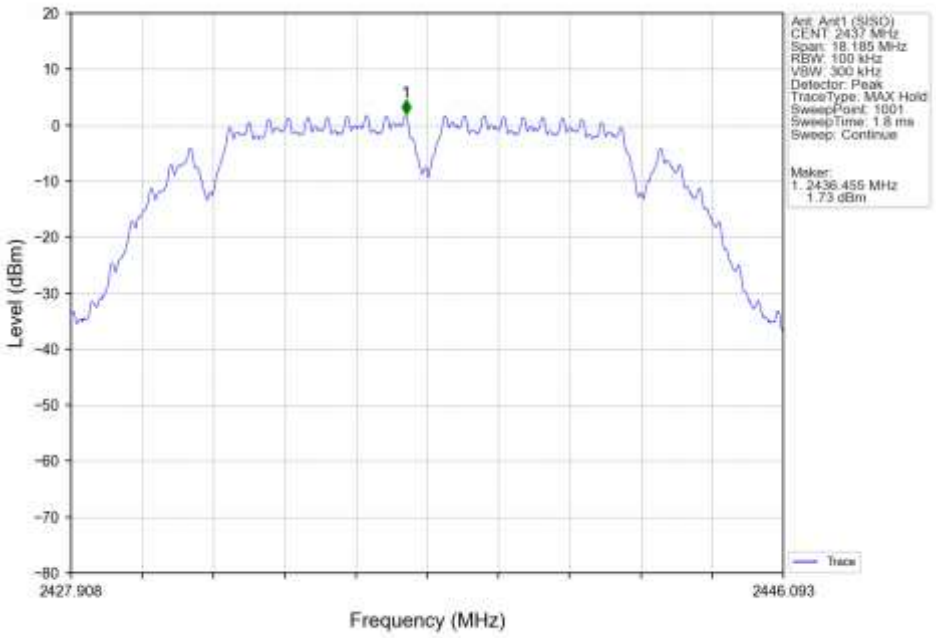
5.2 Test Graph

5.2.1 Ref

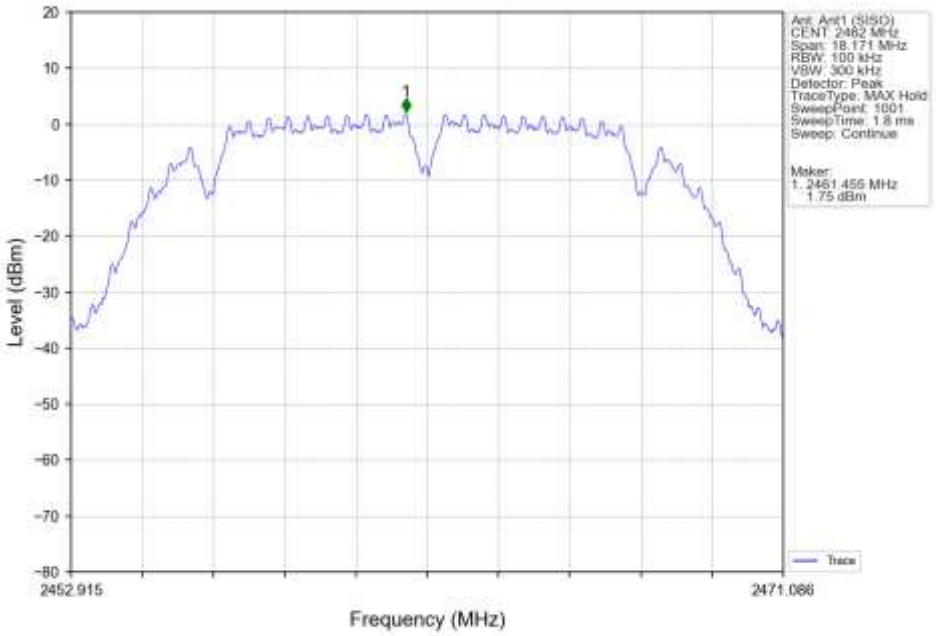
802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



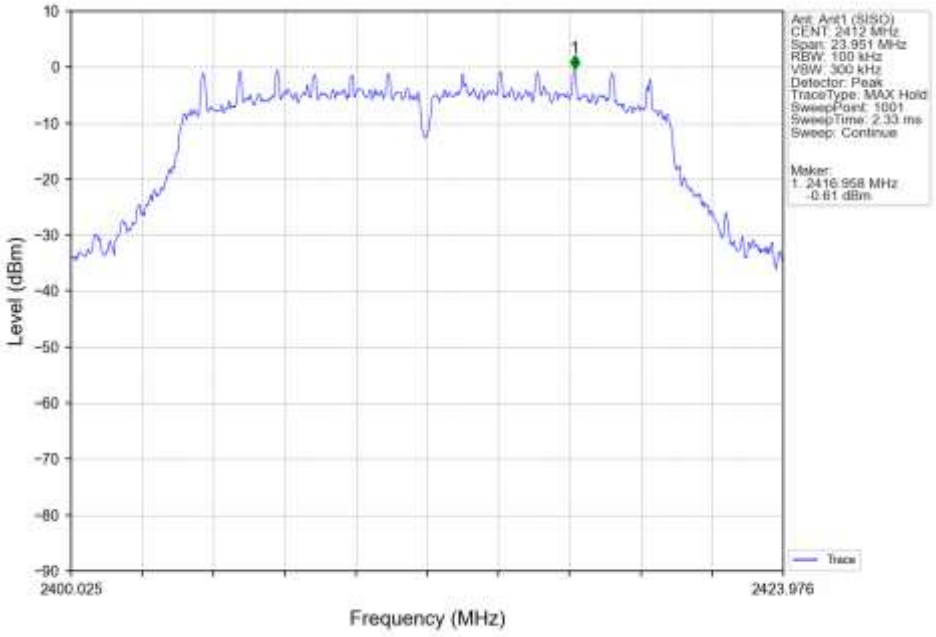
802.11b_MCH_2437MHz_Ant1 (SISO)_NTNV



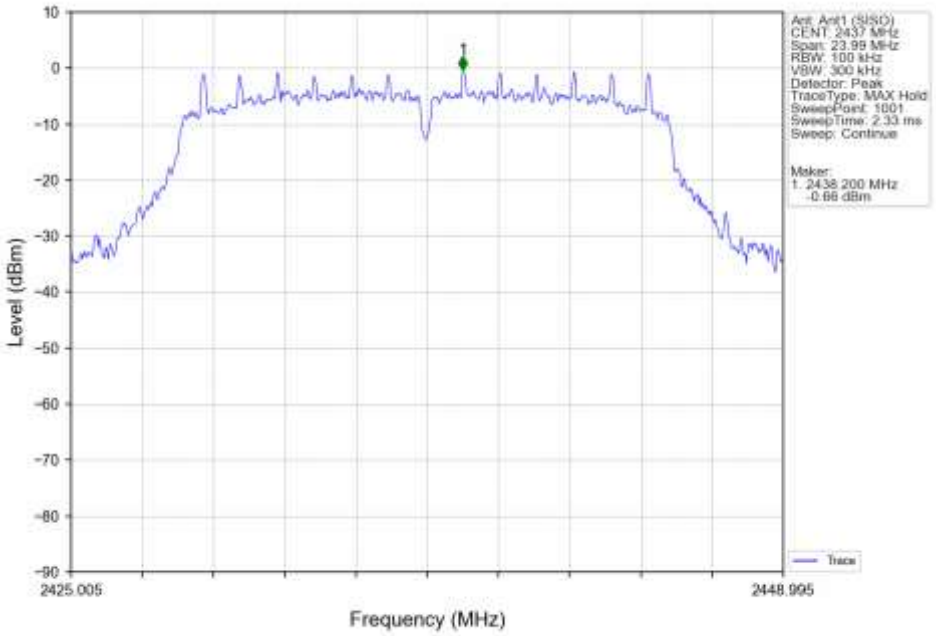
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



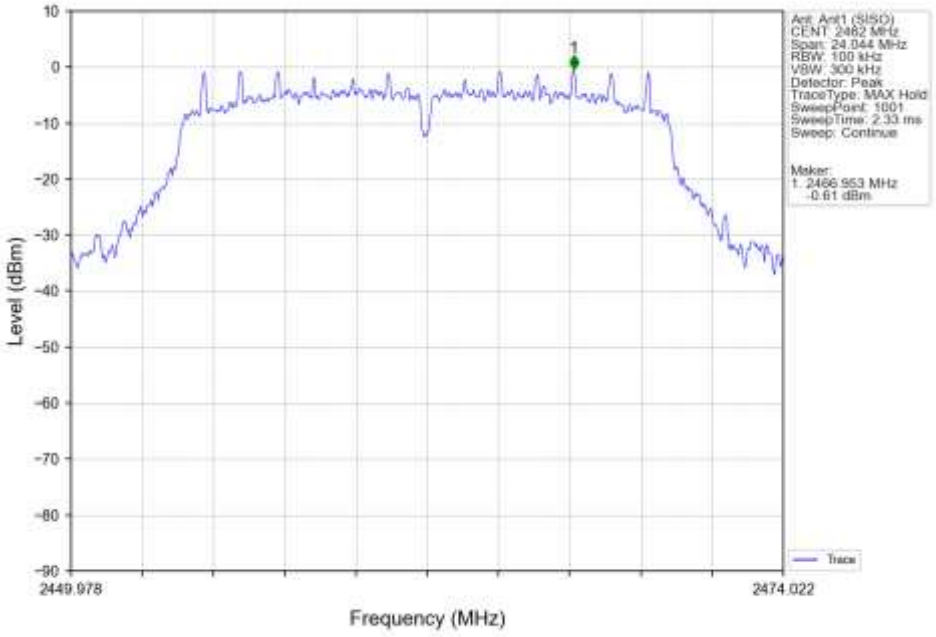
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



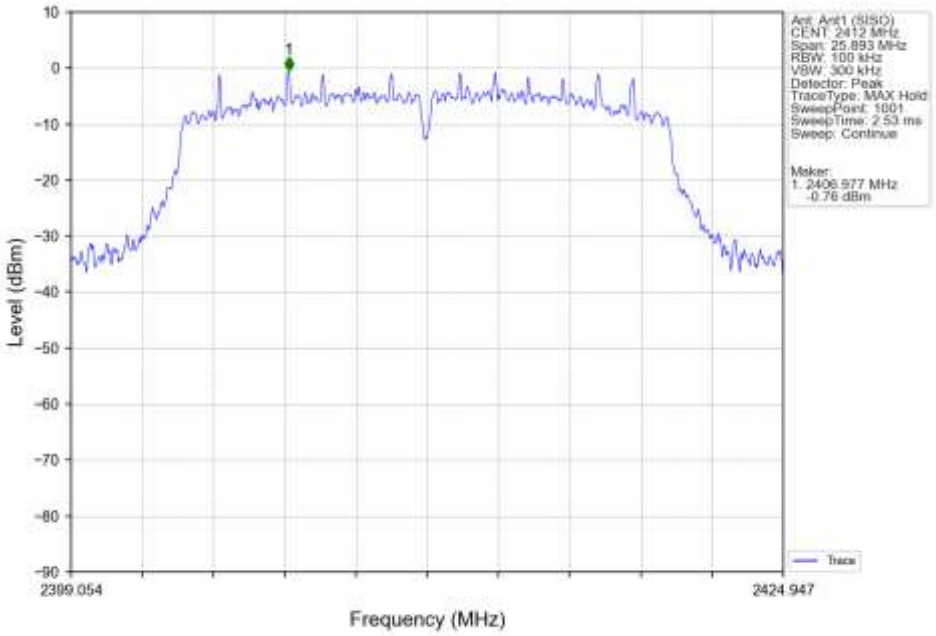
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



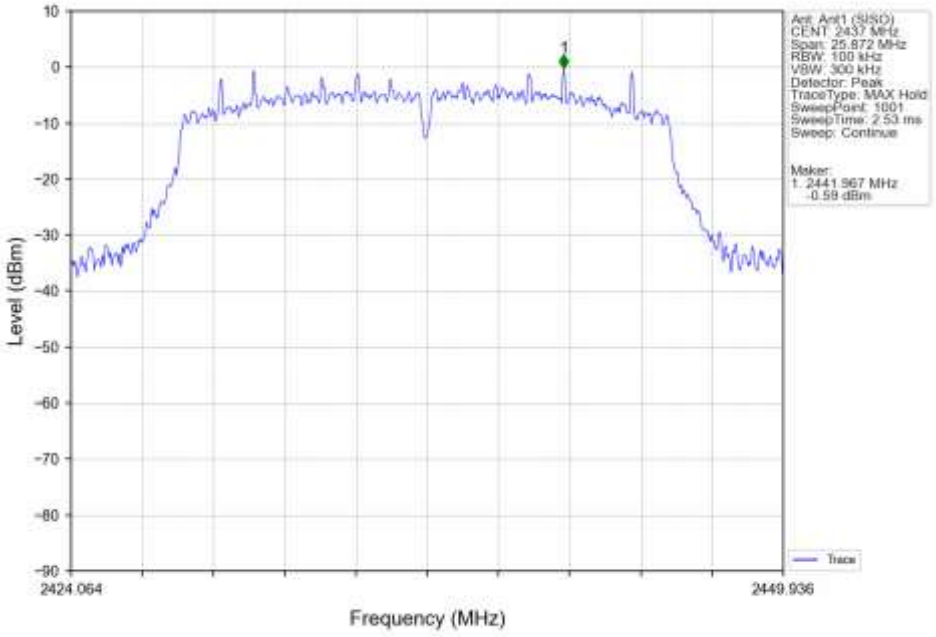
802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



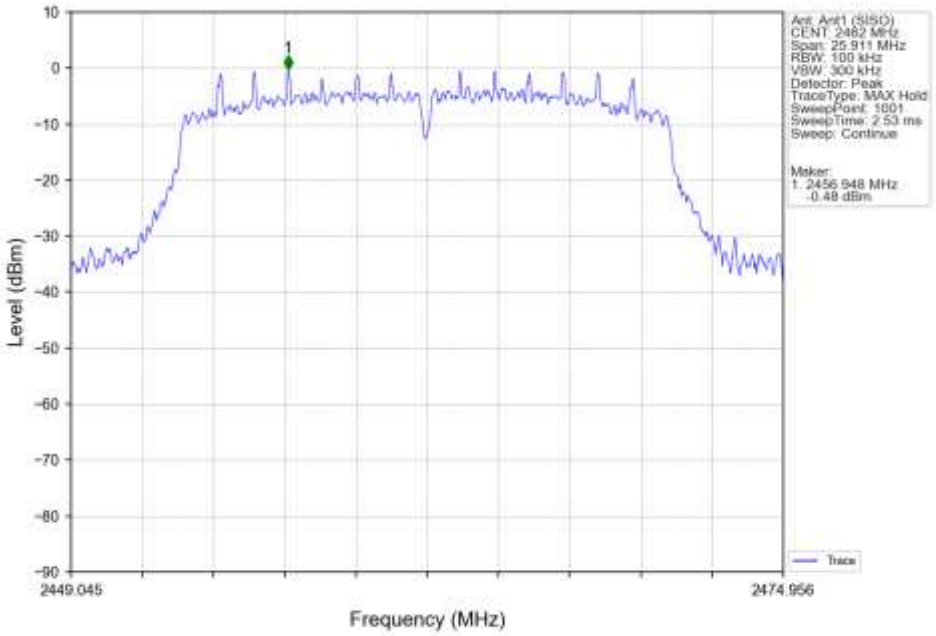
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



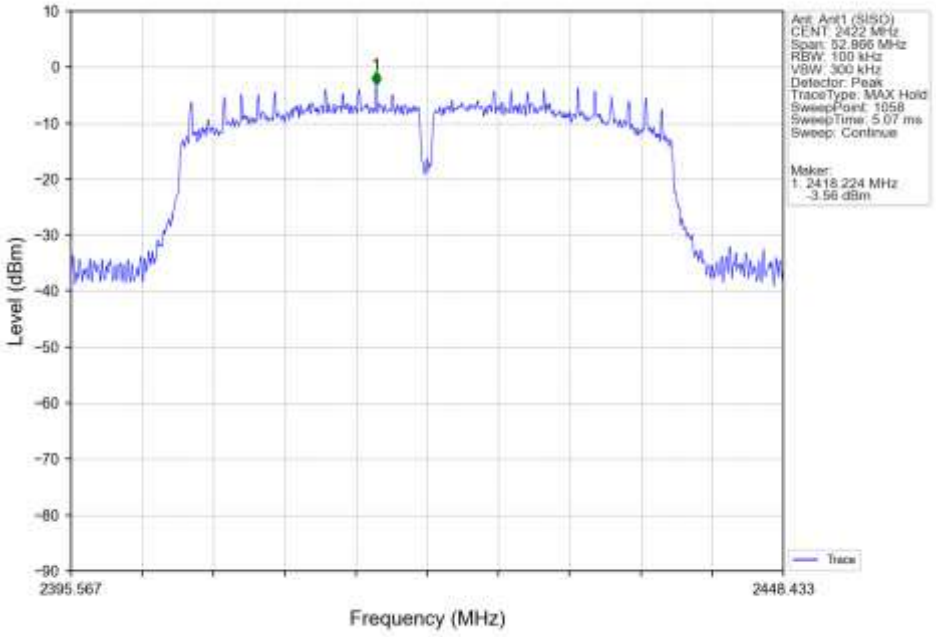
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



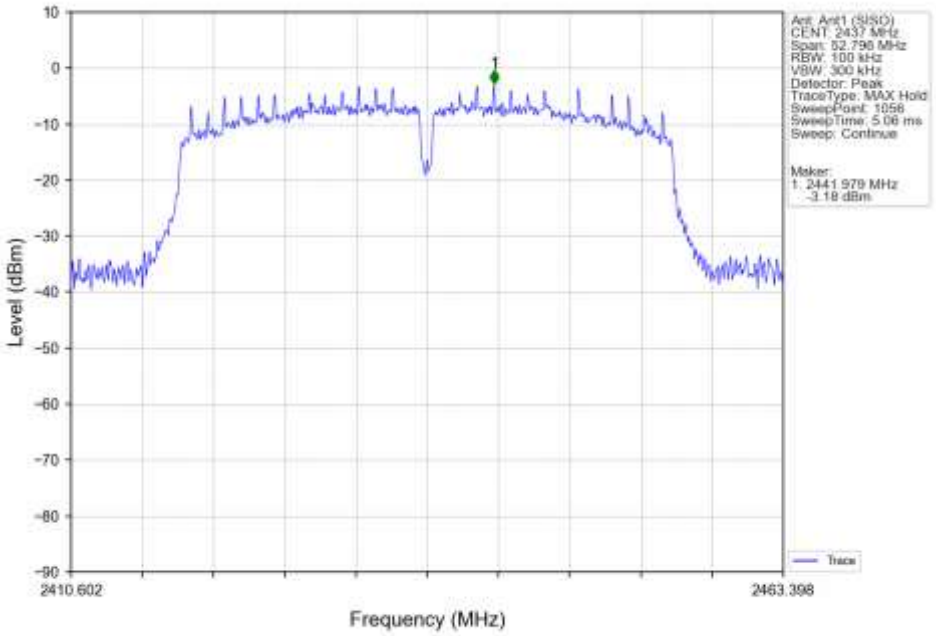
802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



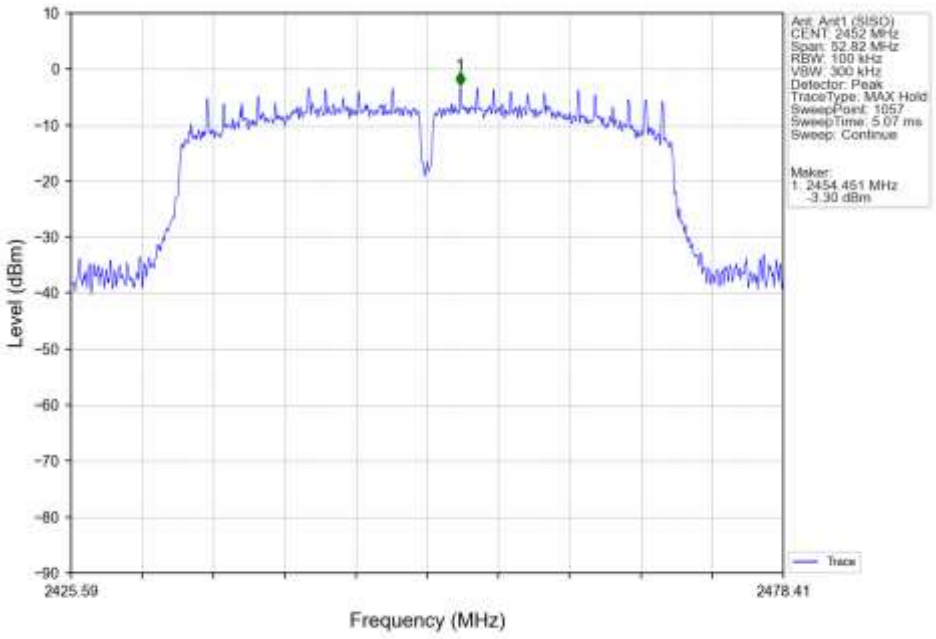
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

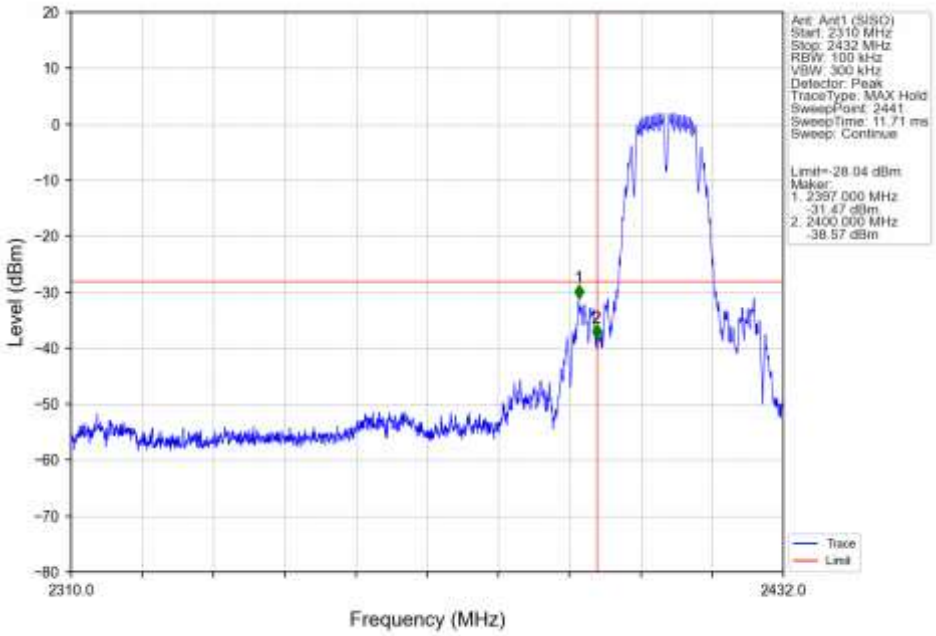


802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



5.2.2 CSE

802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV



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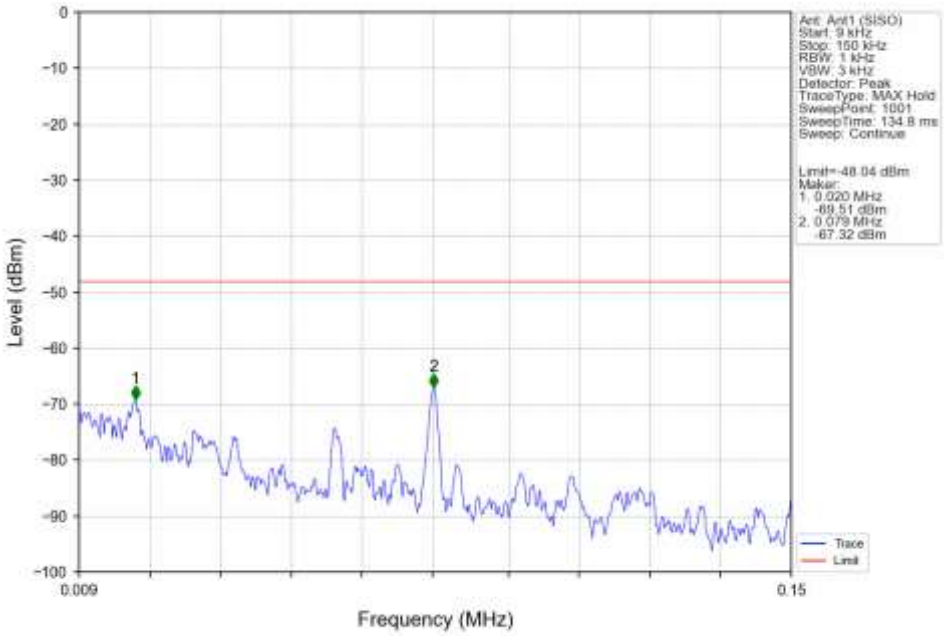

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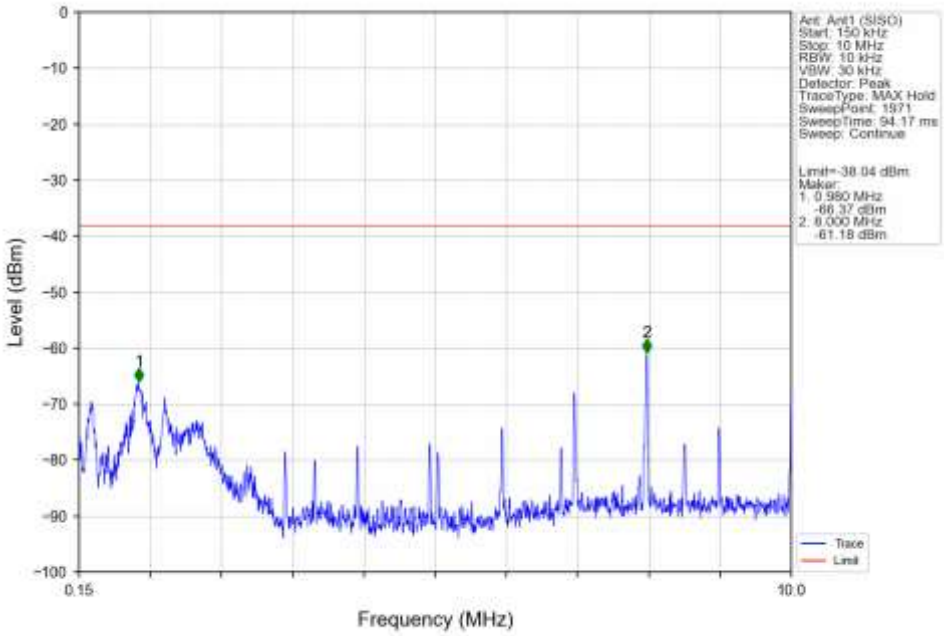

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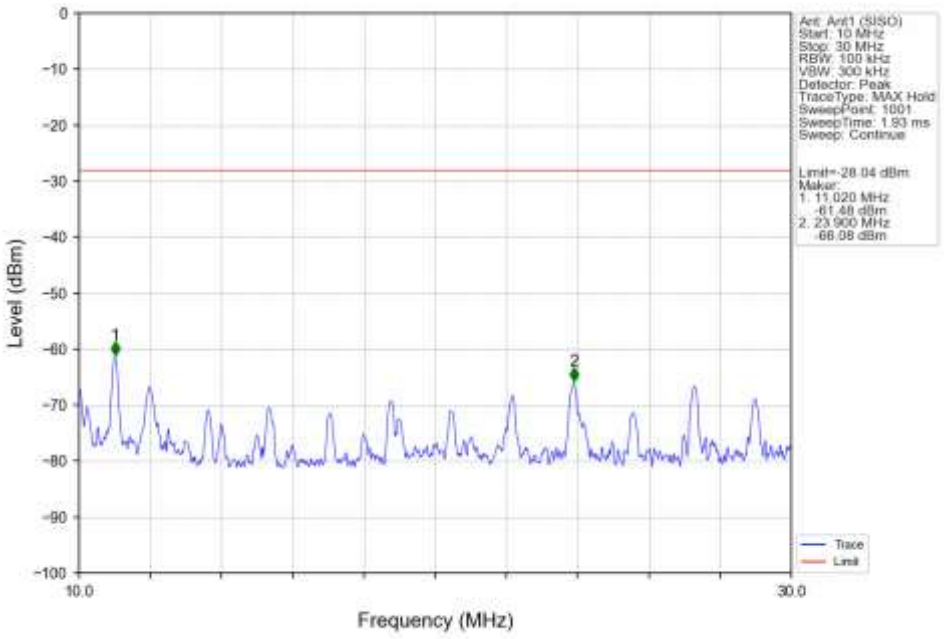

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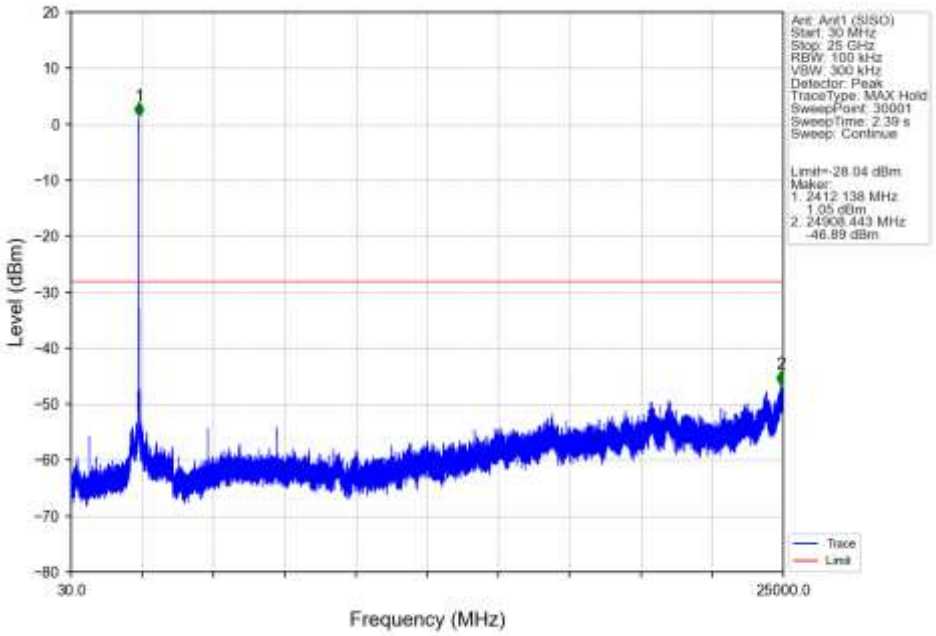

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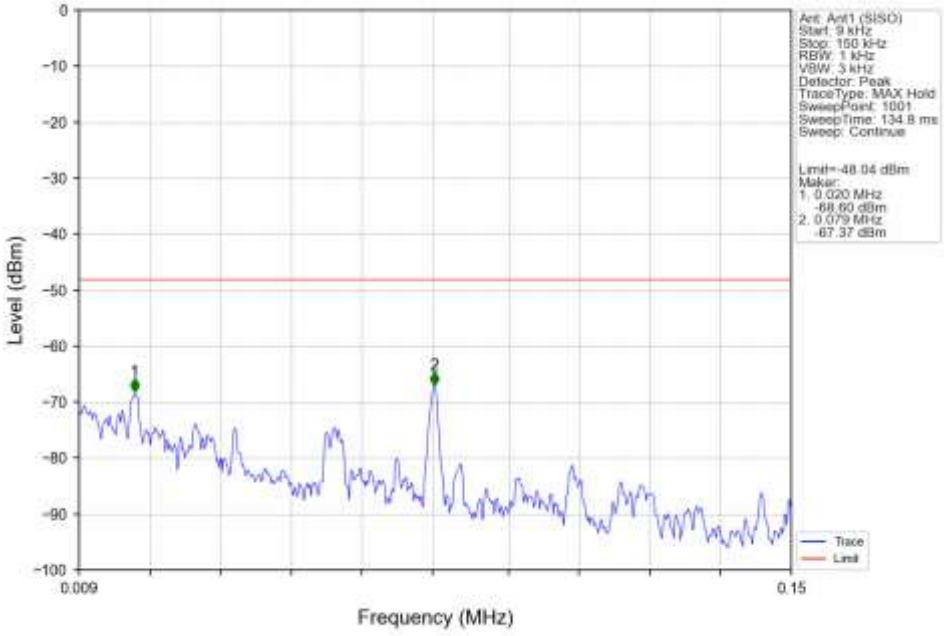

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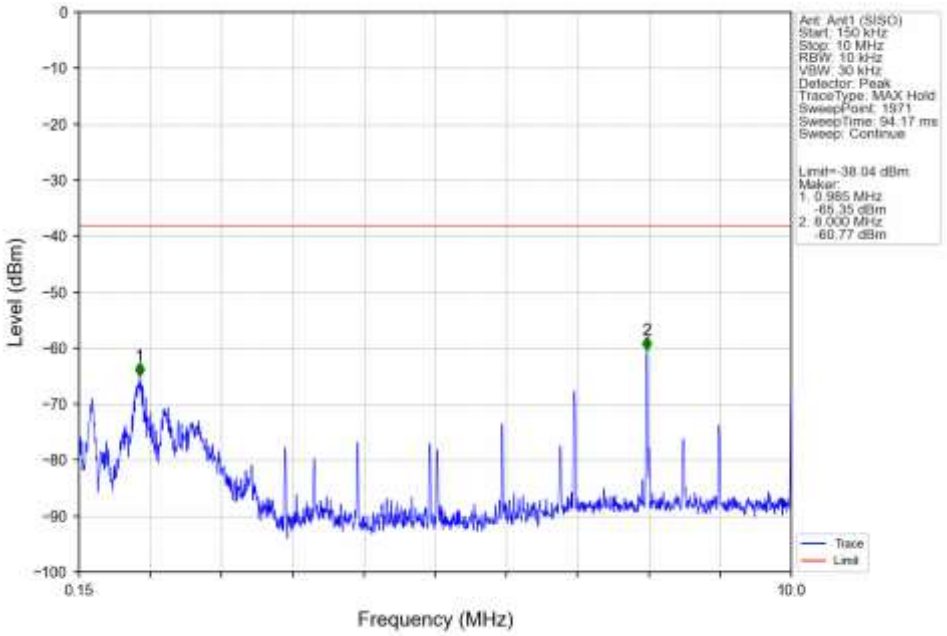

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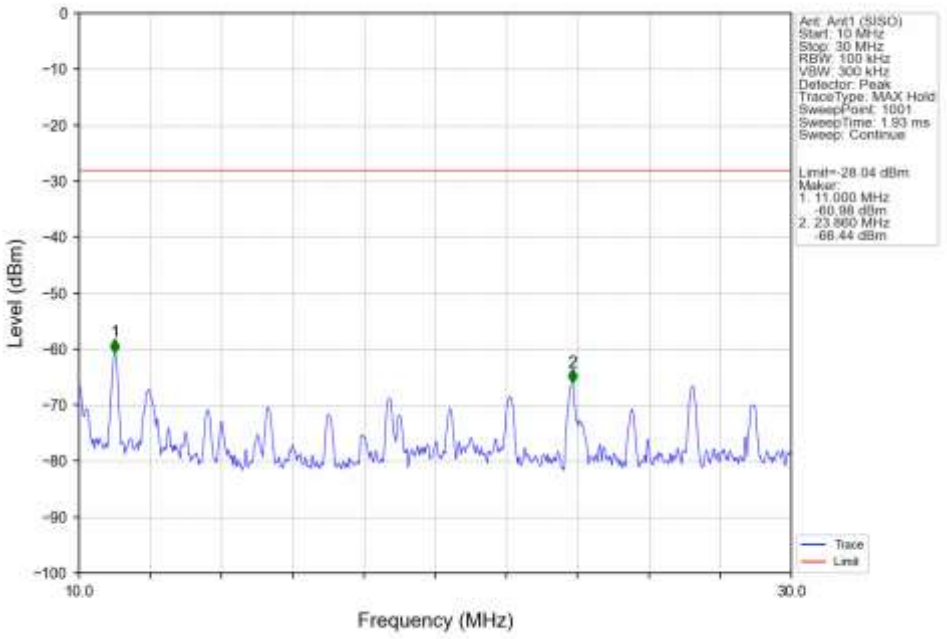

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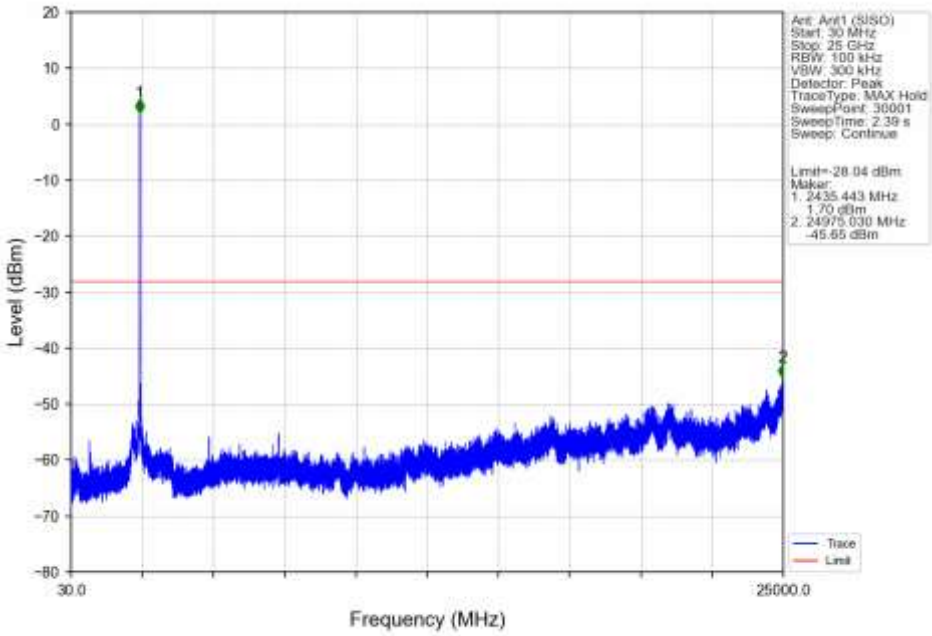

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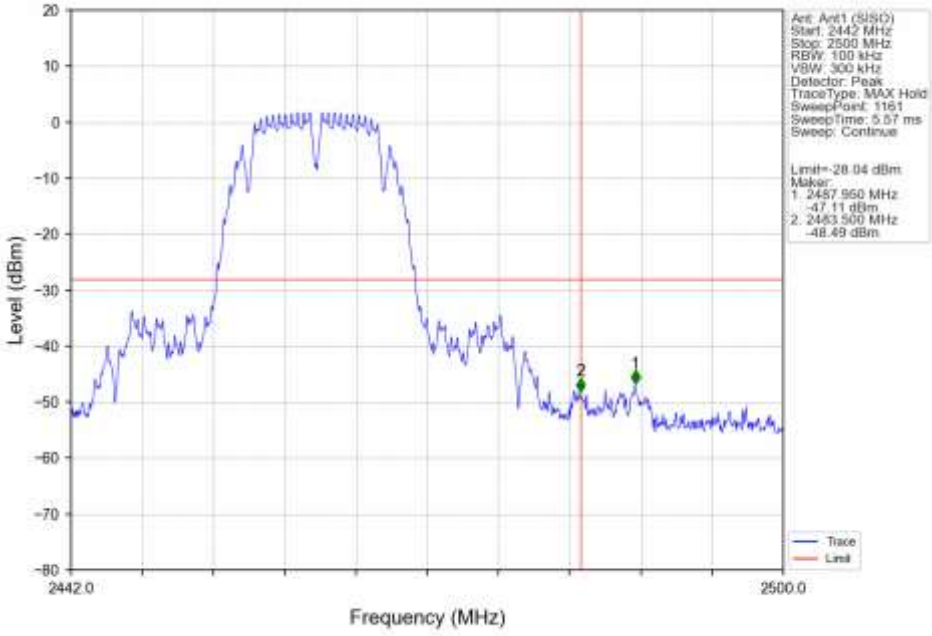

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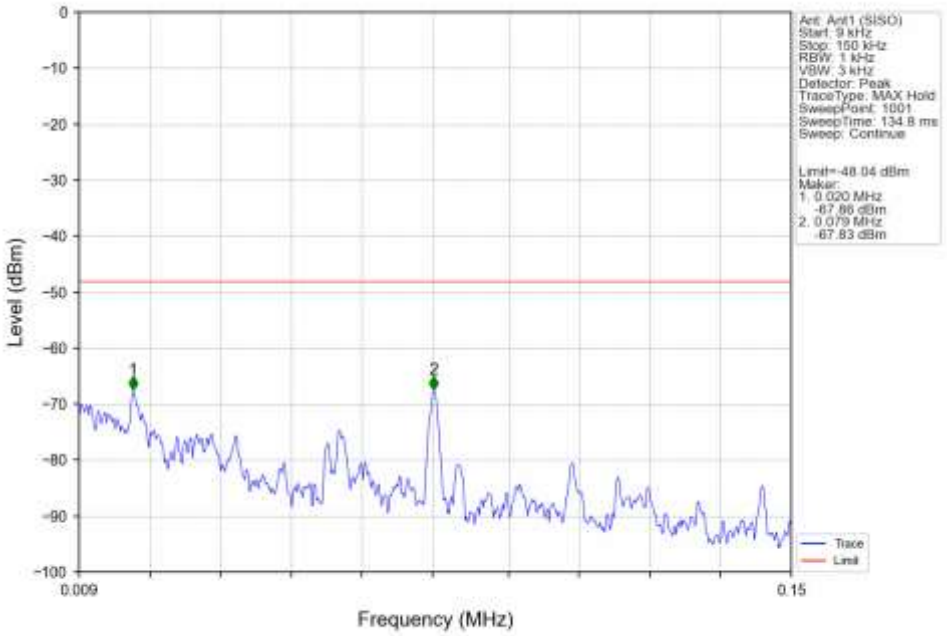

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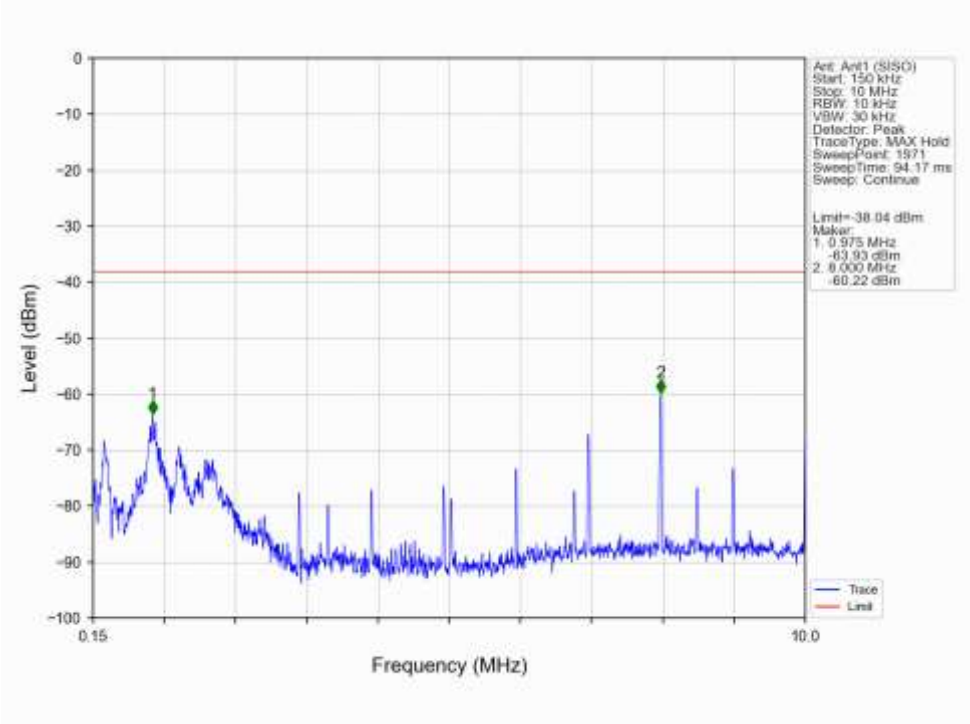

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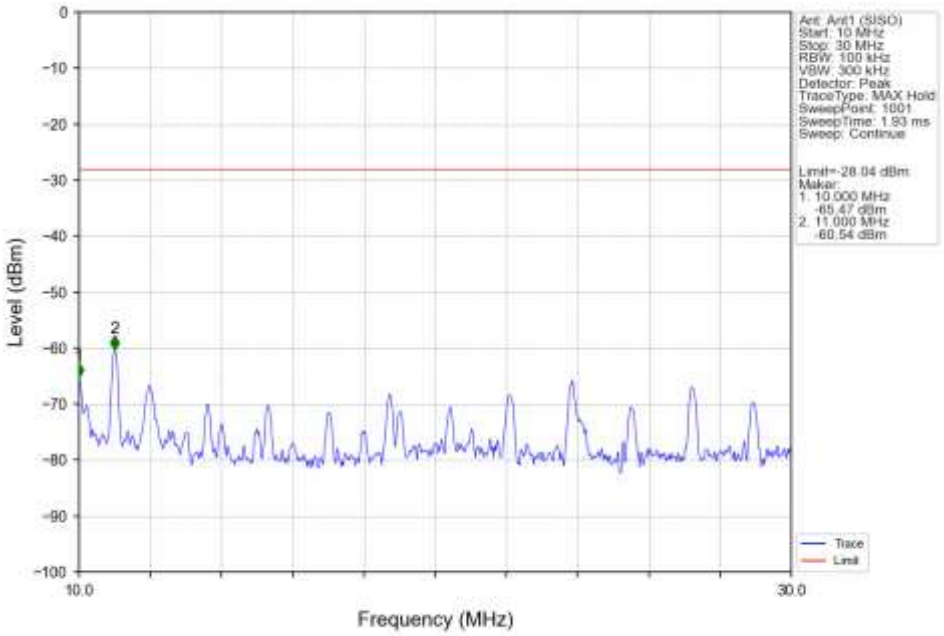

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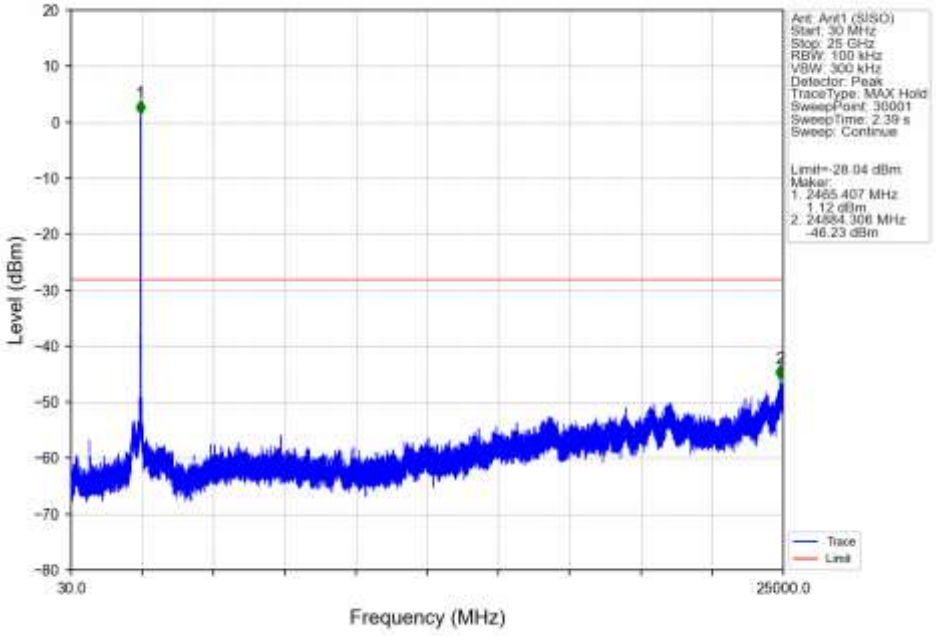

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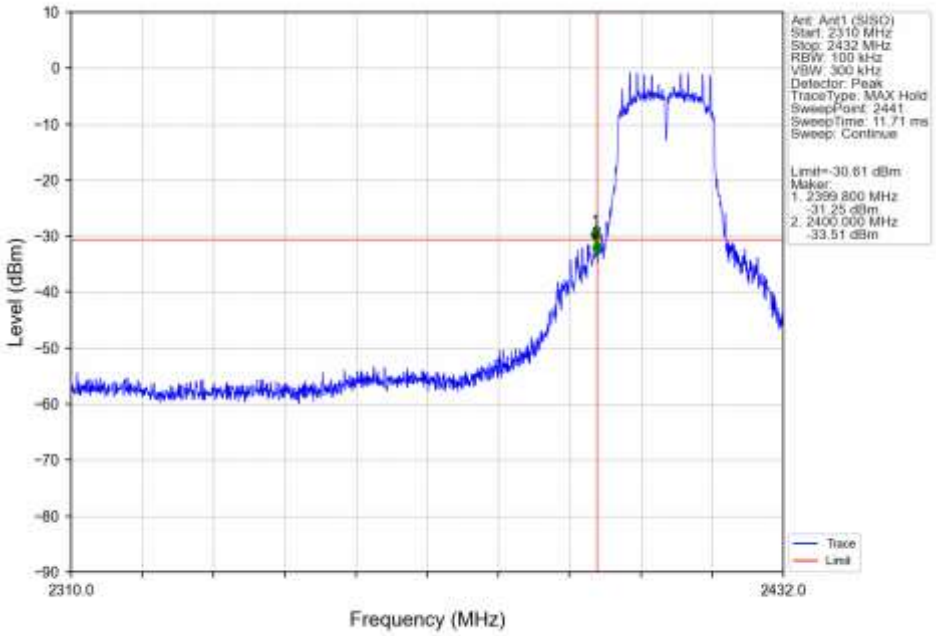

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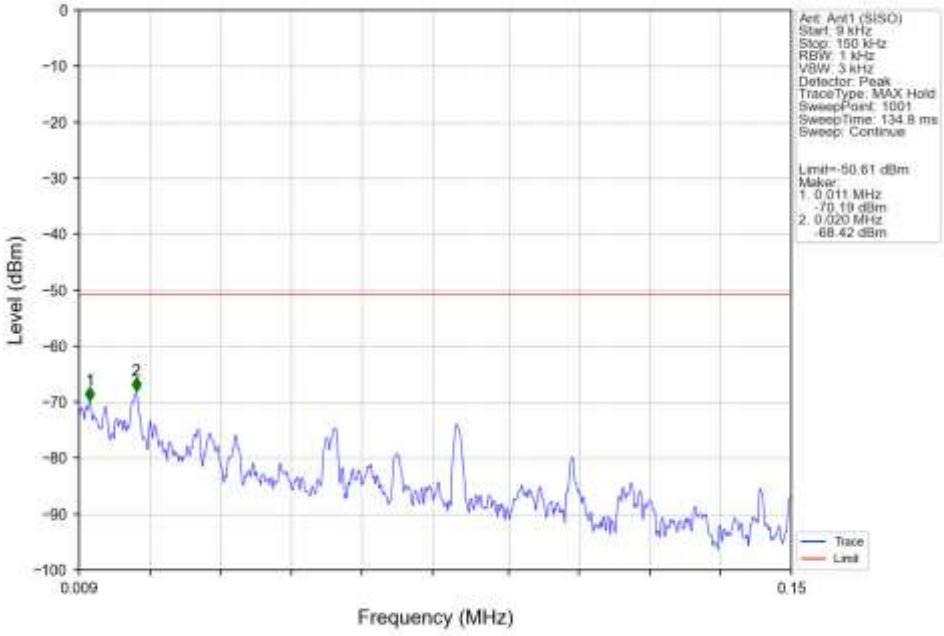

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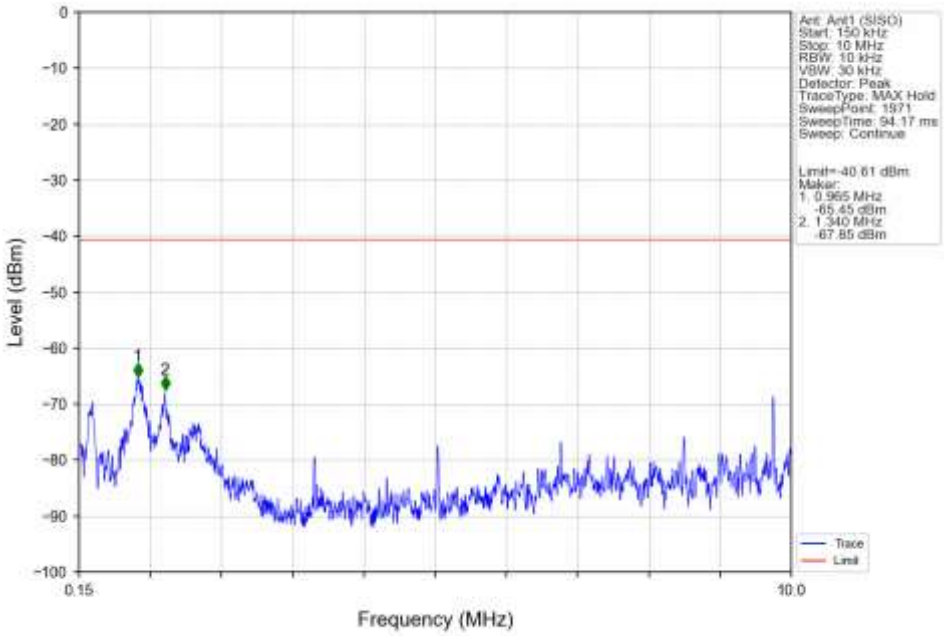

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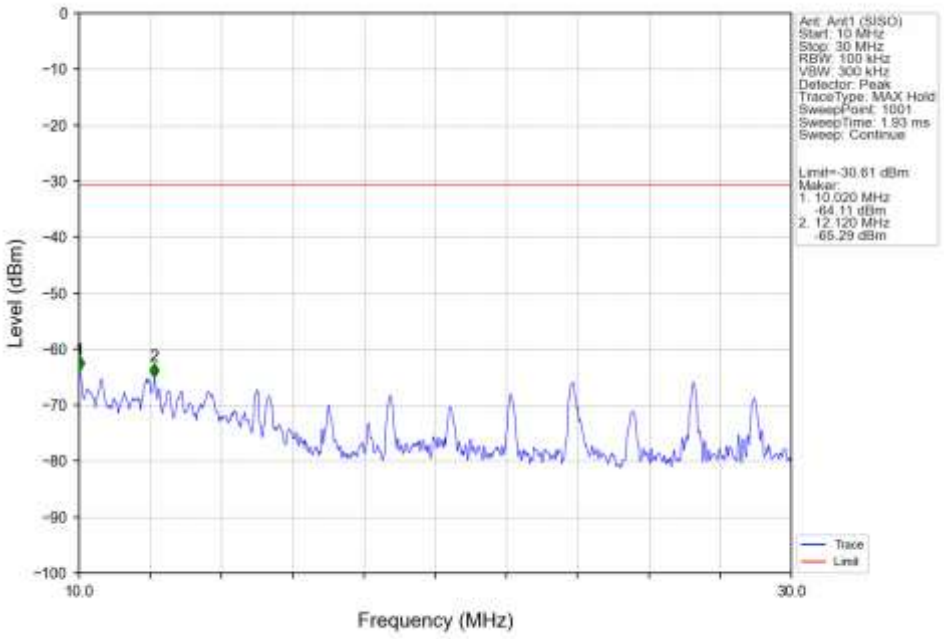

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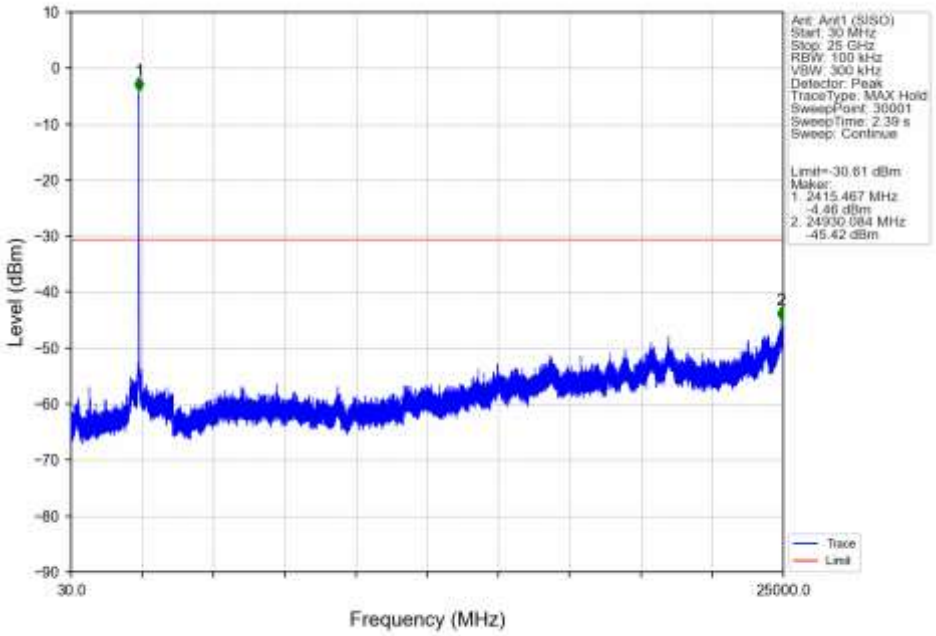
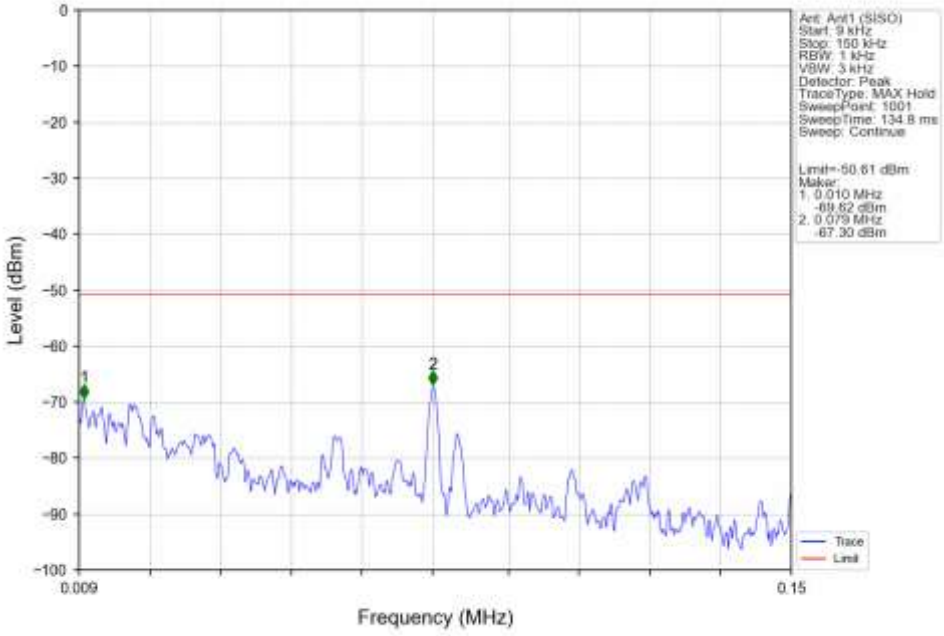
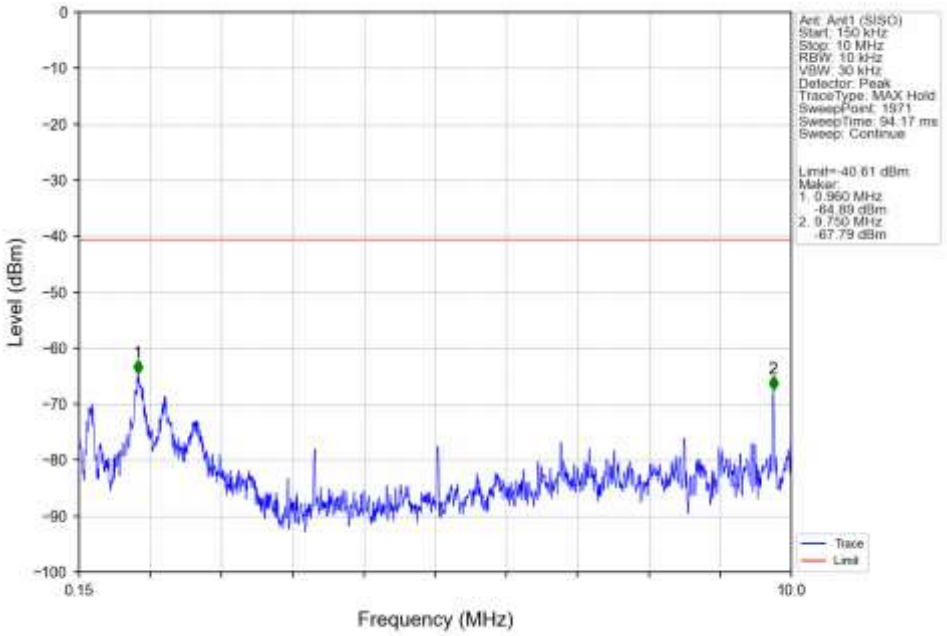


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



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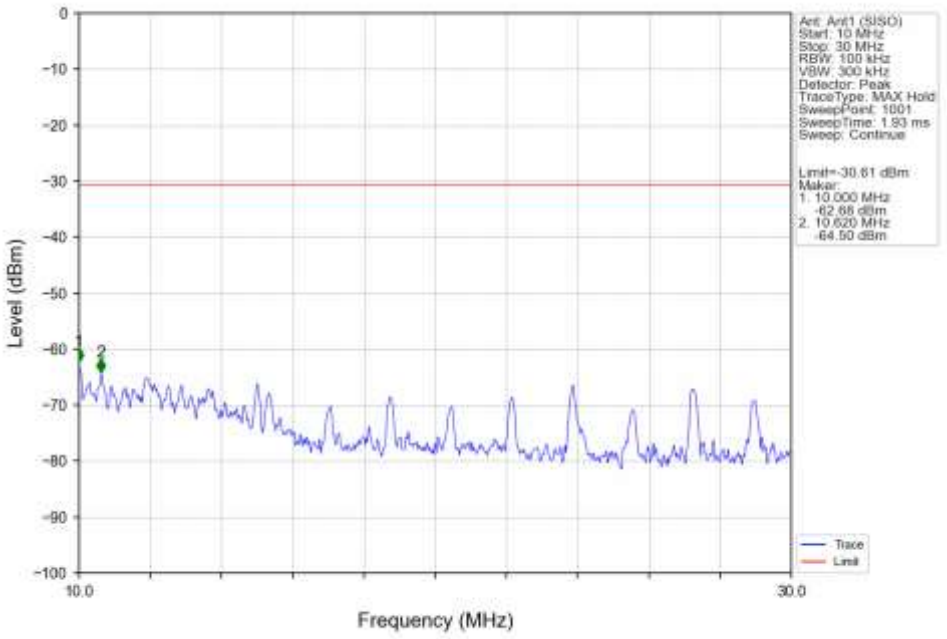
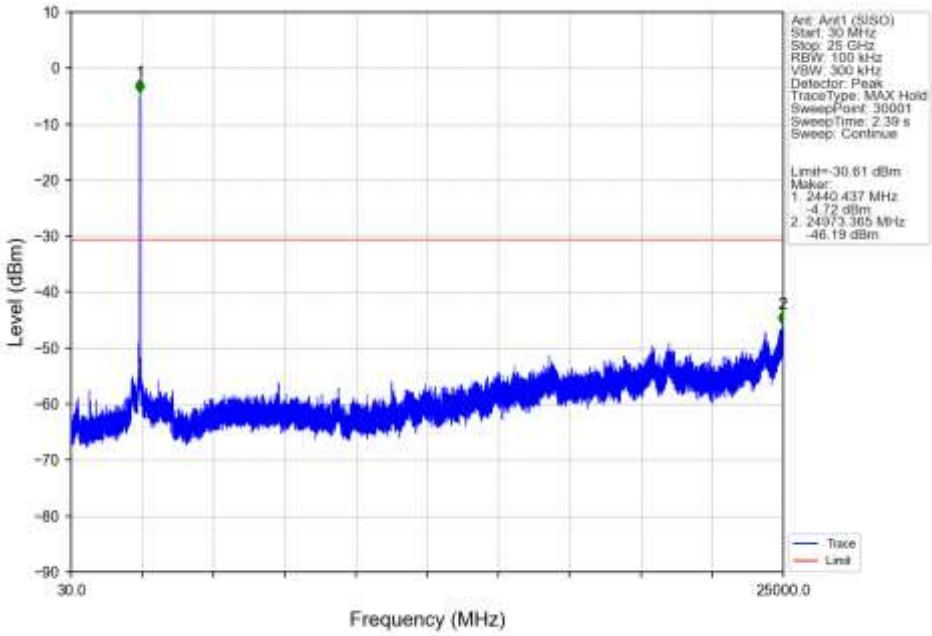
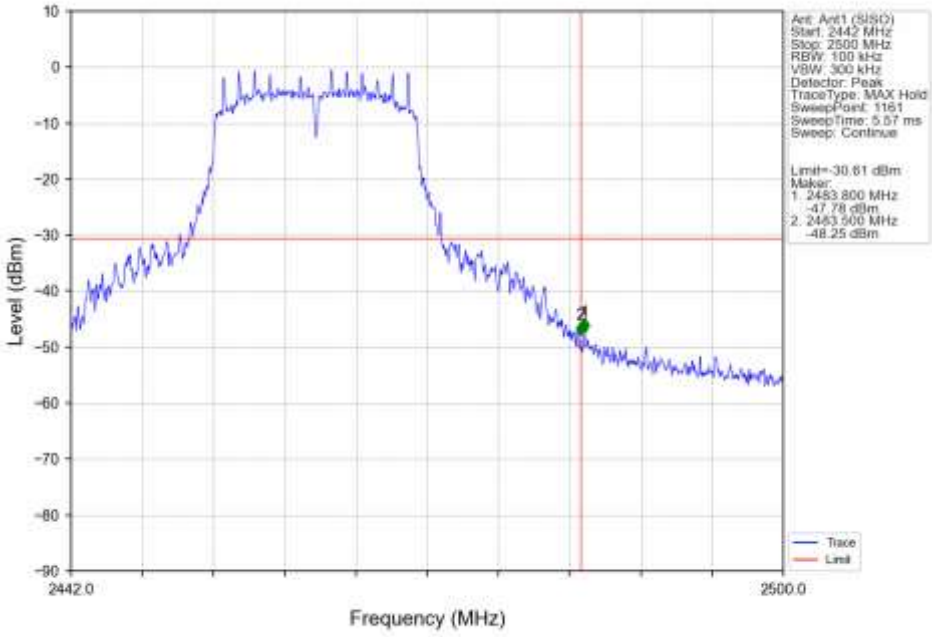


802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV



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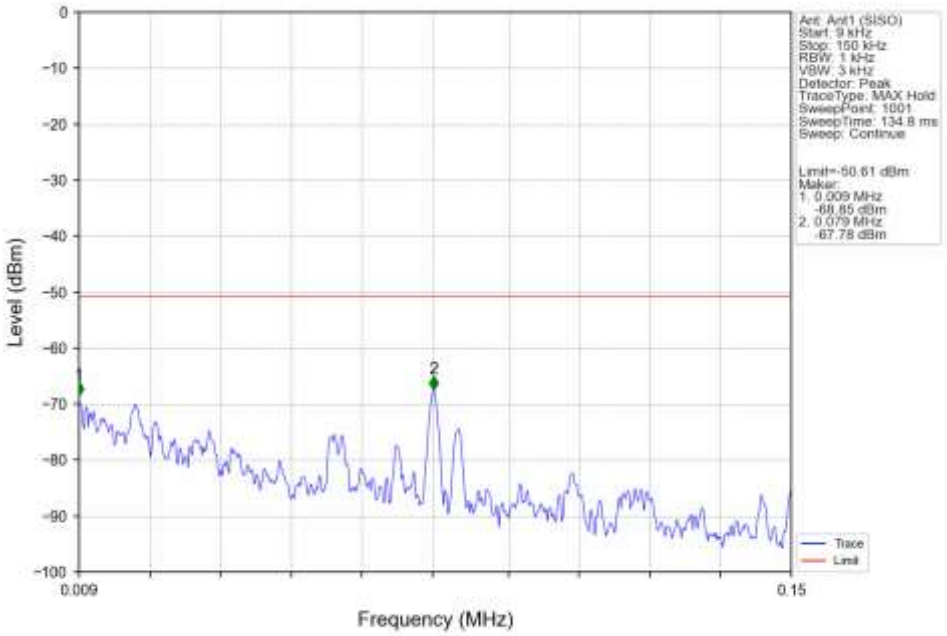

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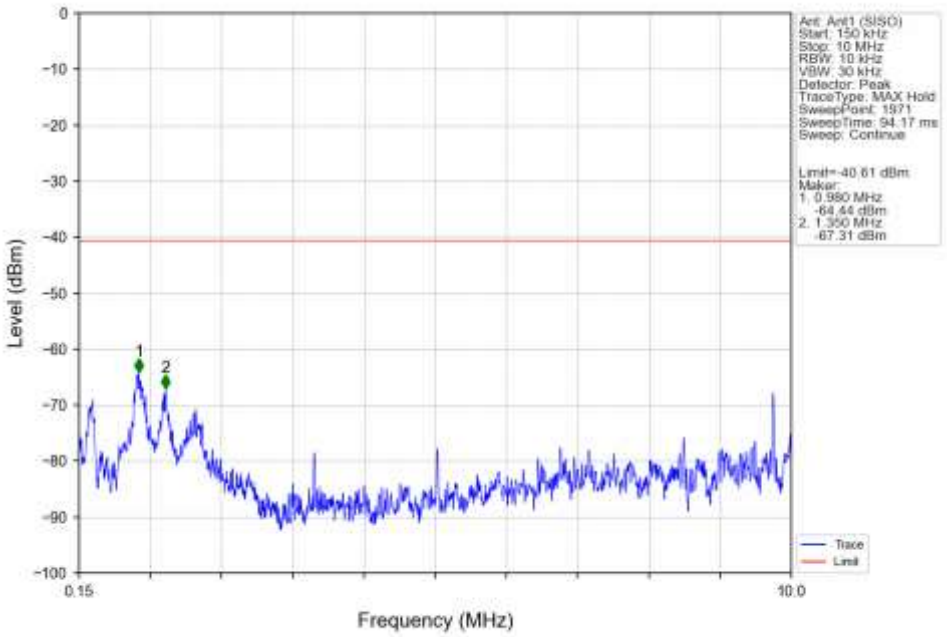

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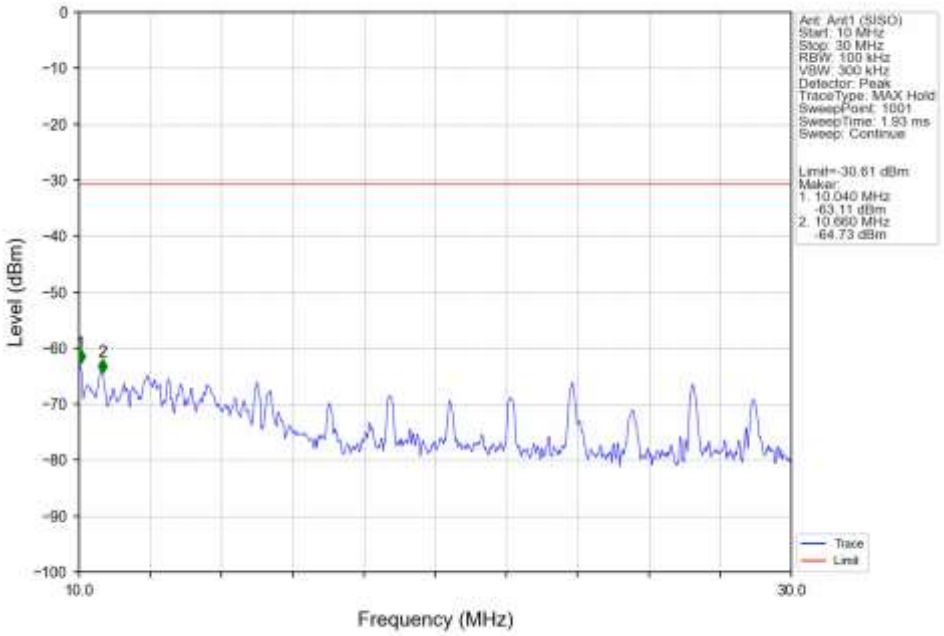

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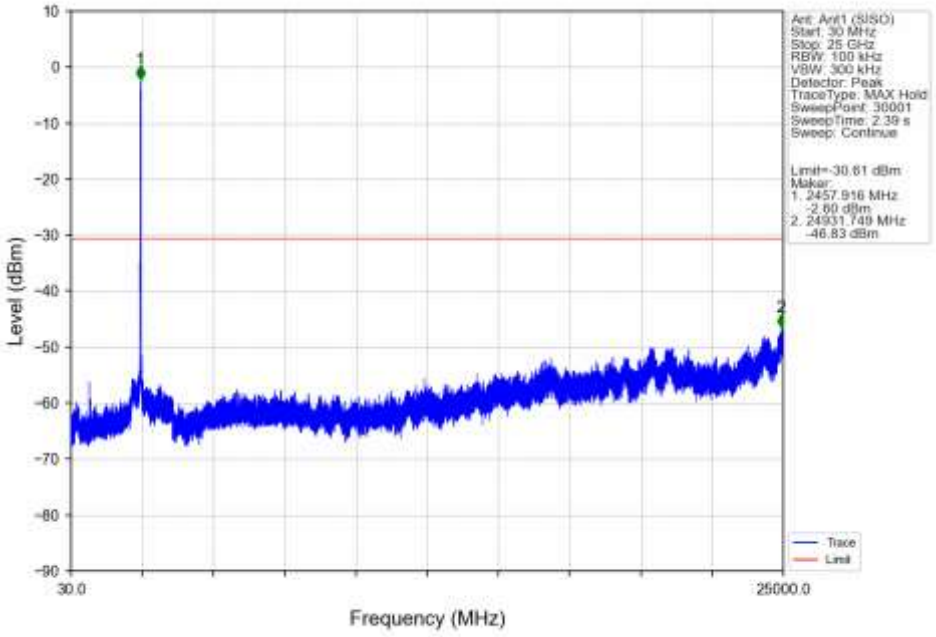

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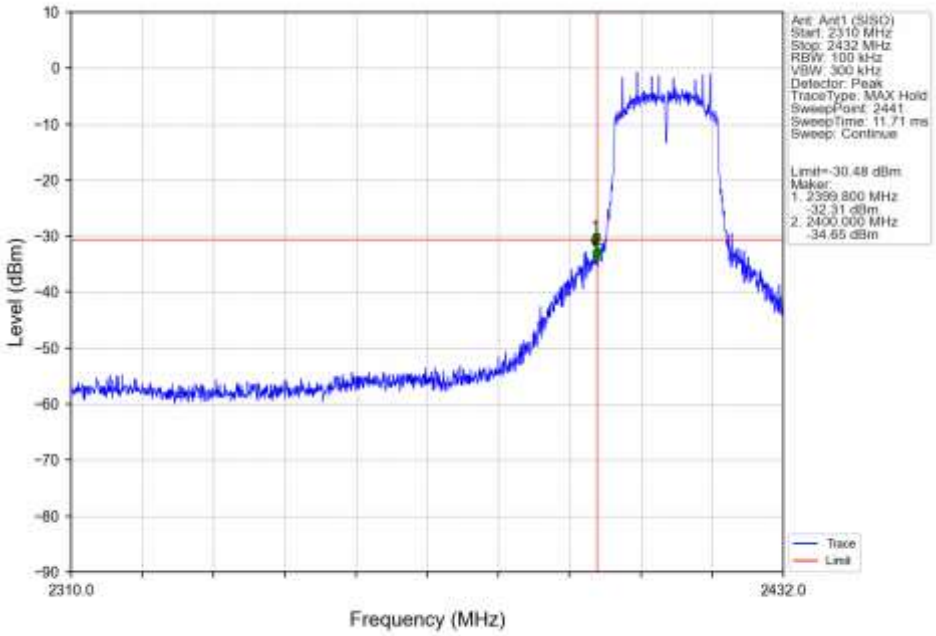

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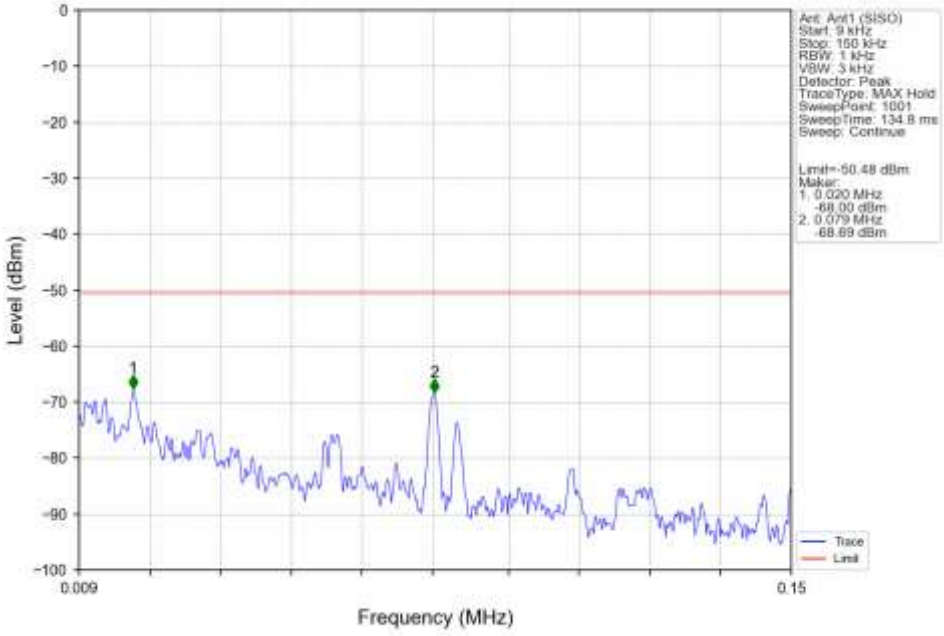

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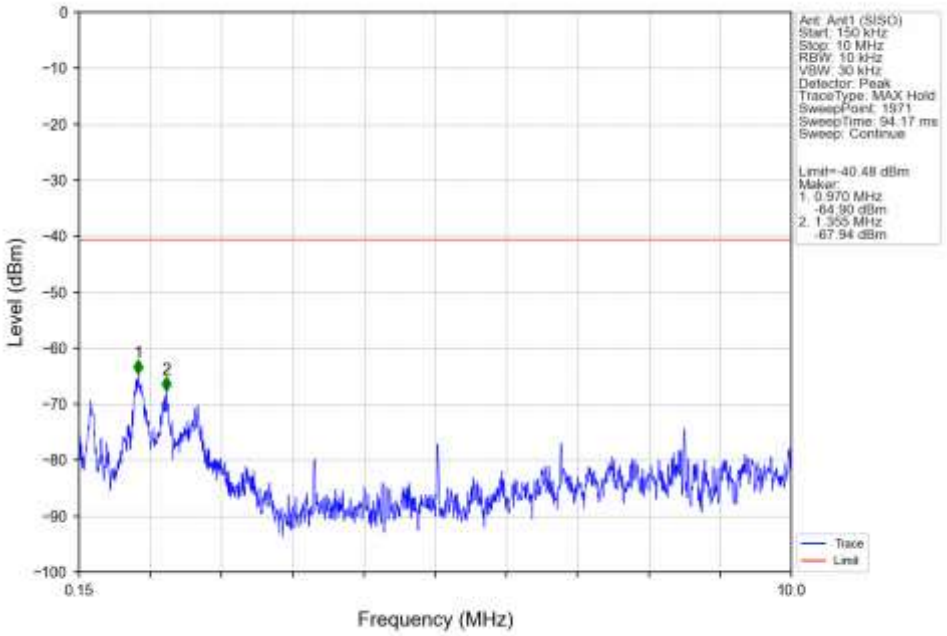

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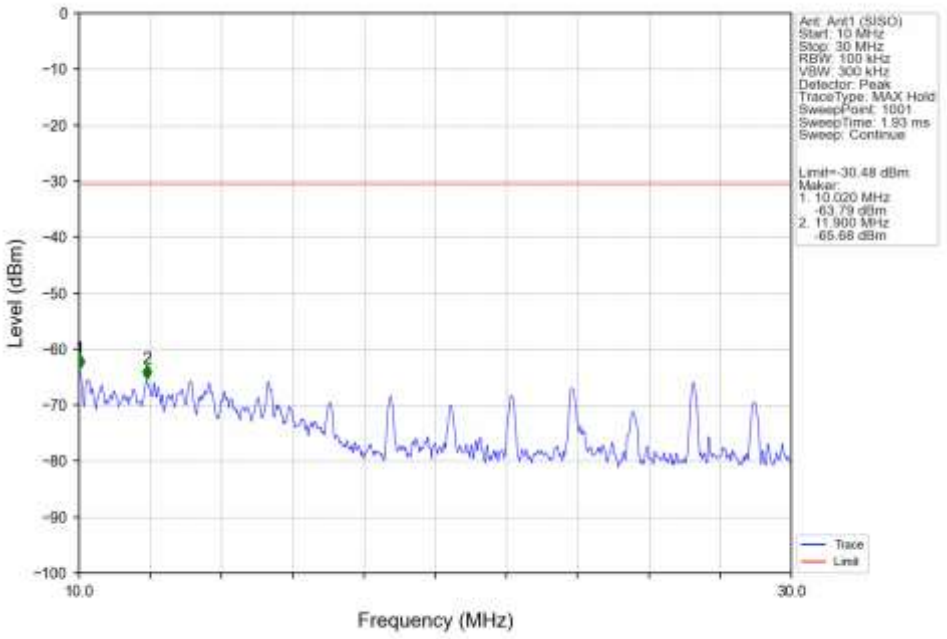

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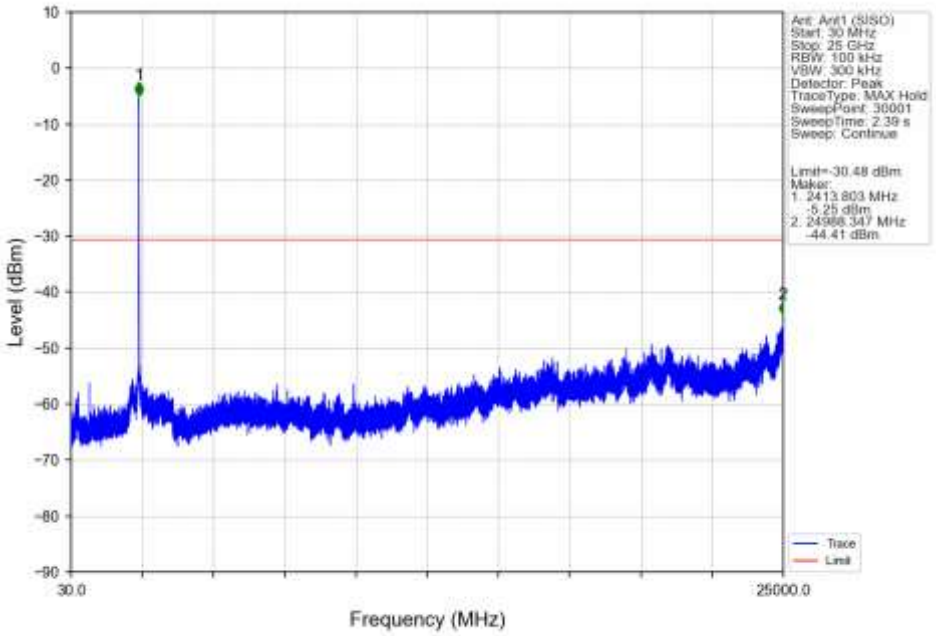
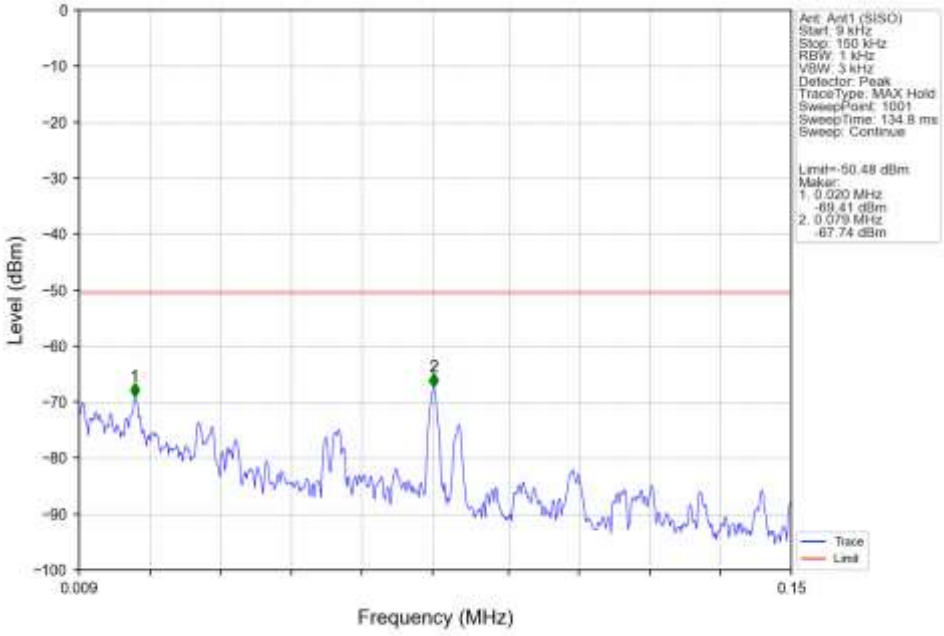


802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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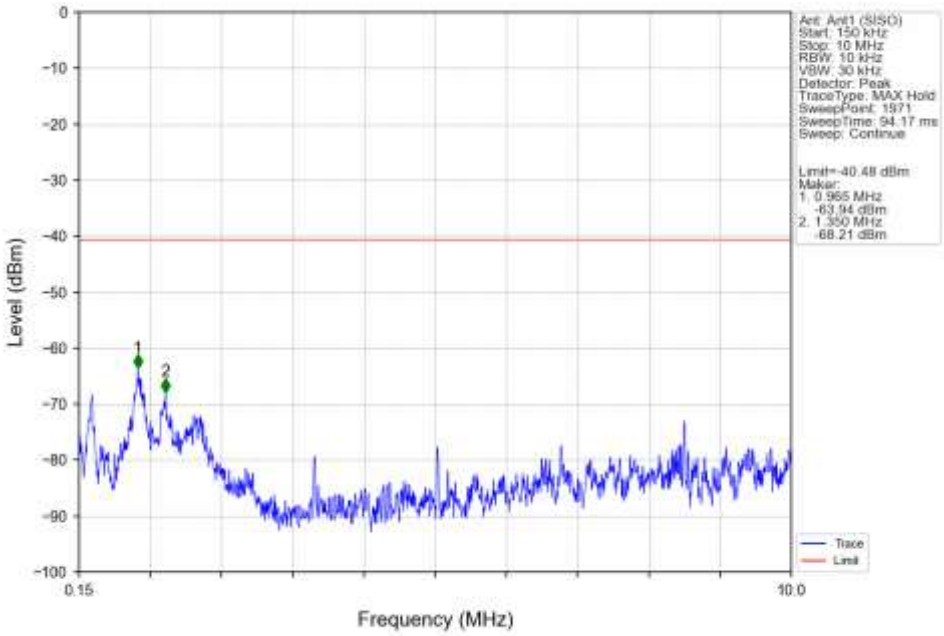

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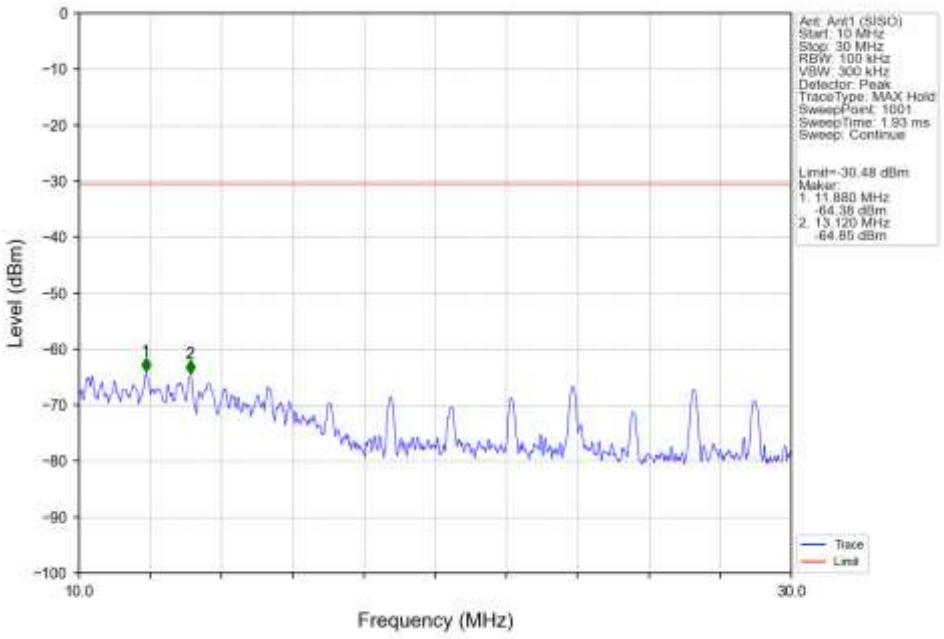

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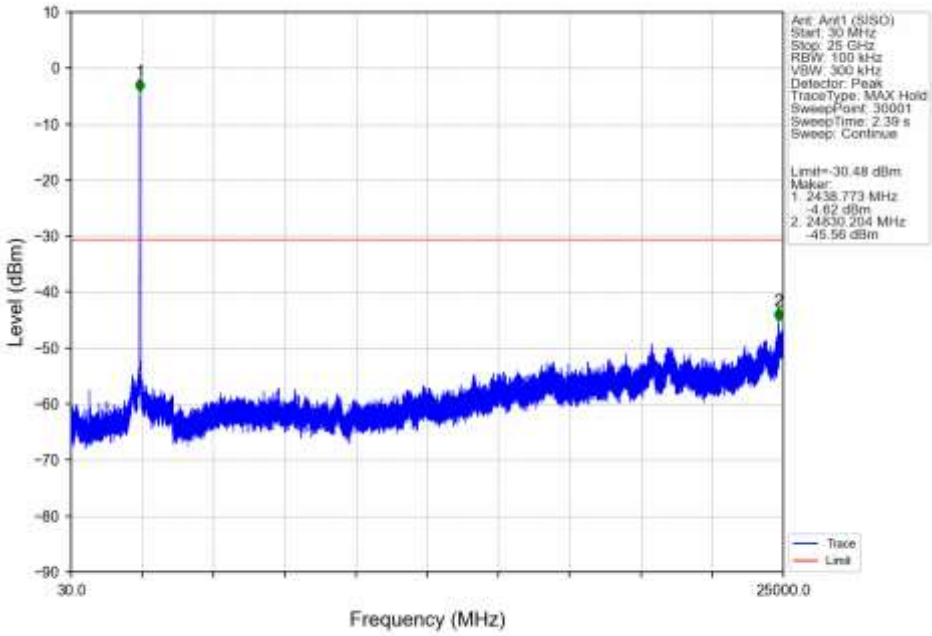

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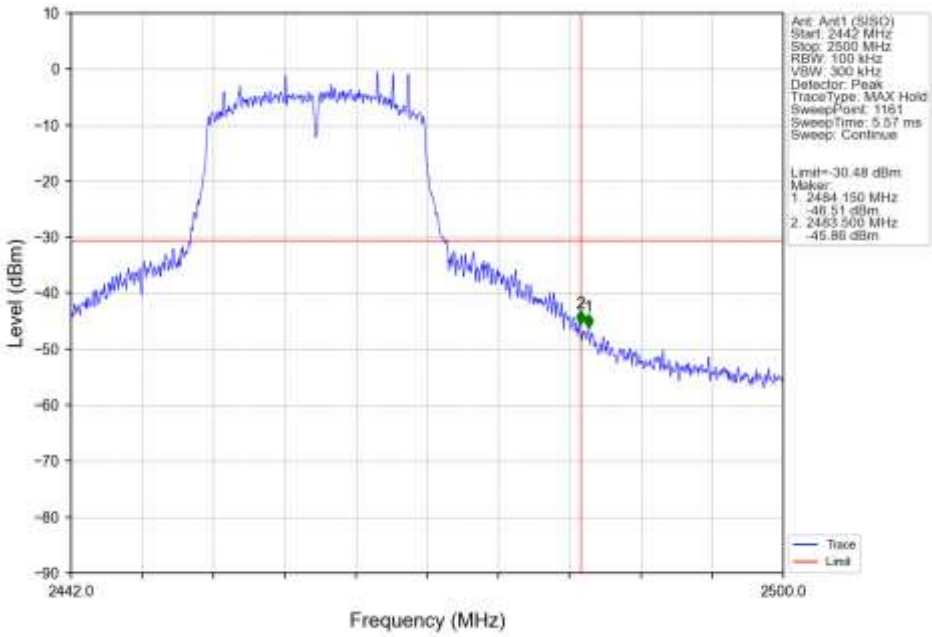

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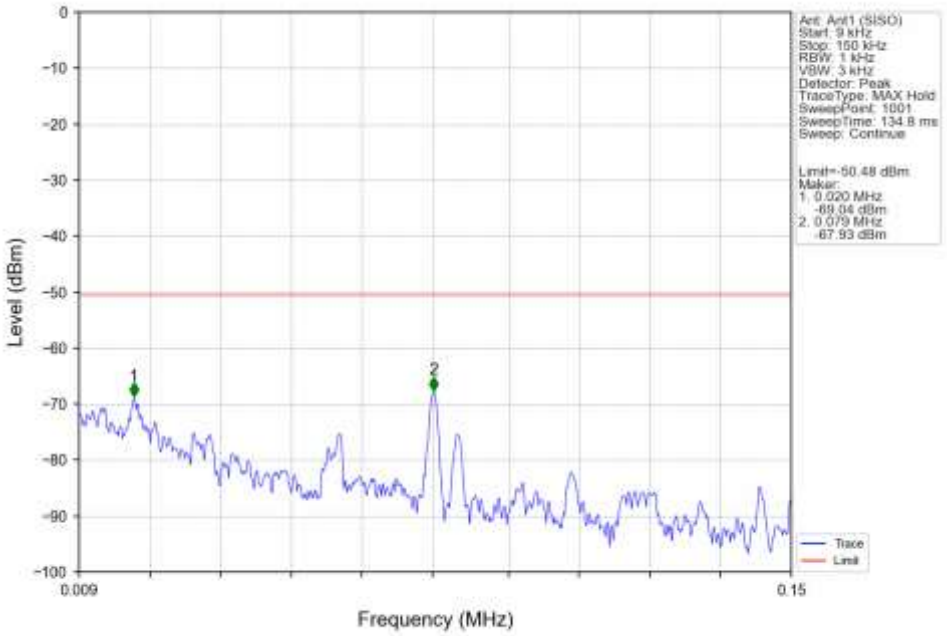

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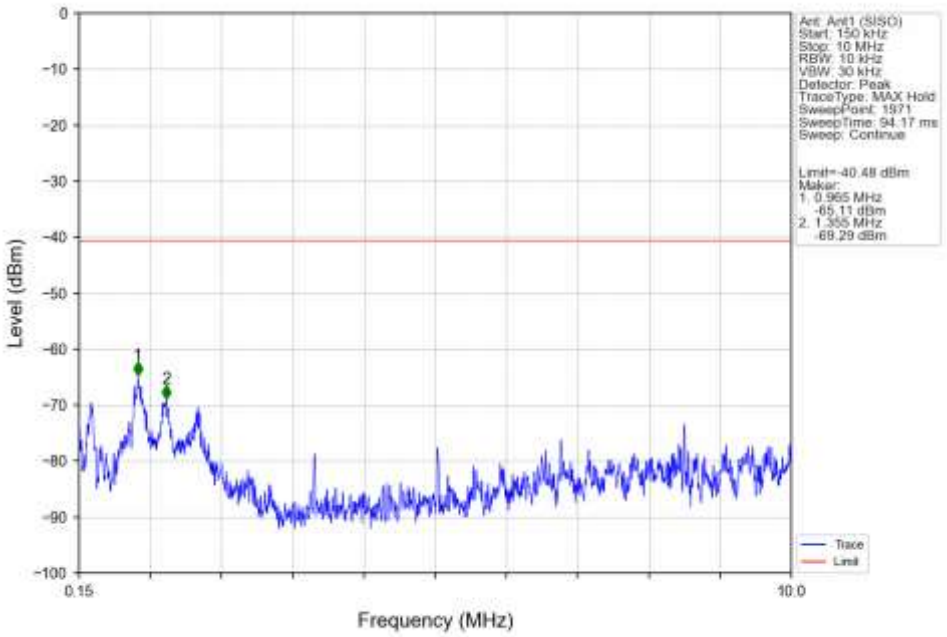

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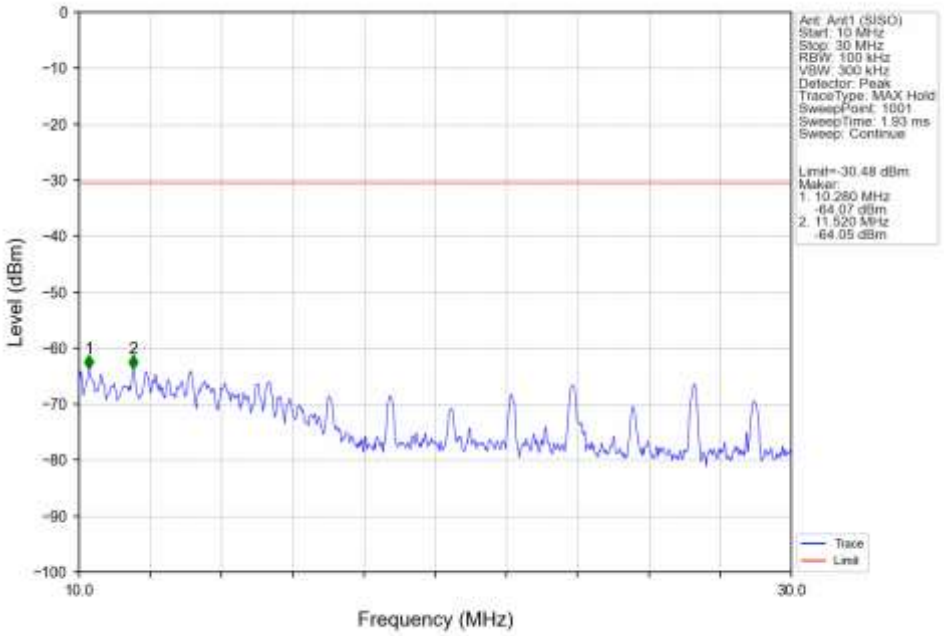

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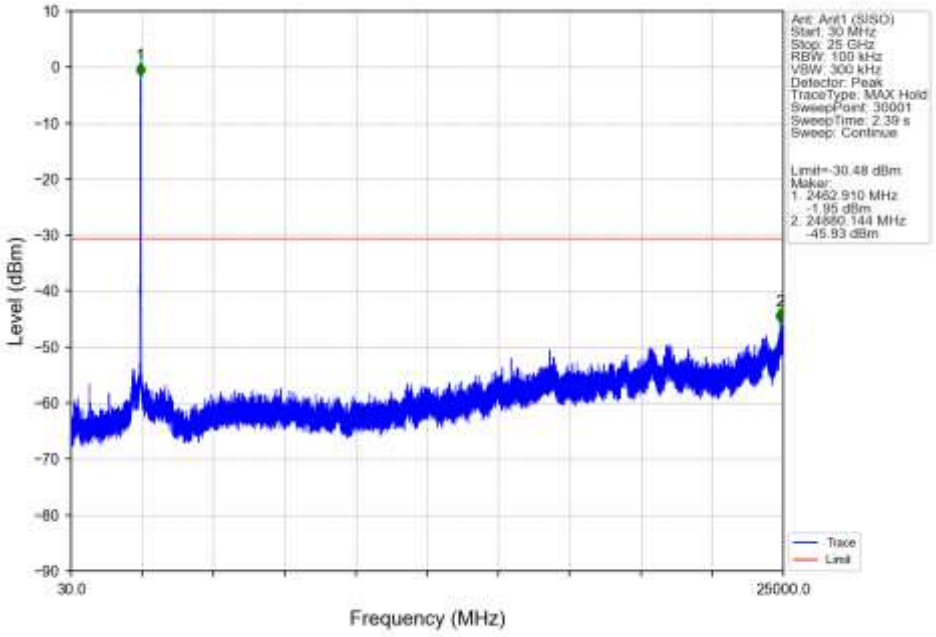
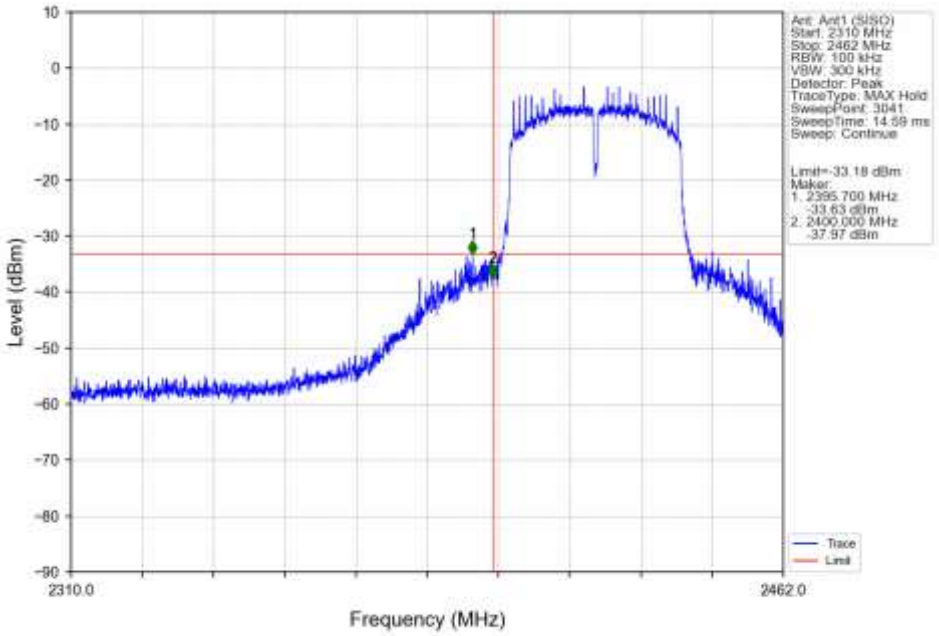
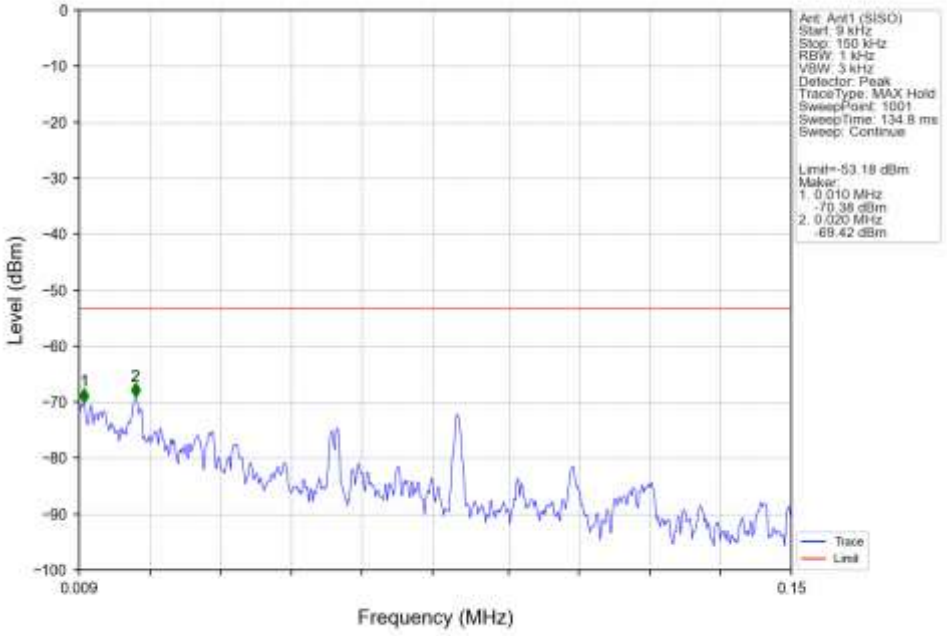


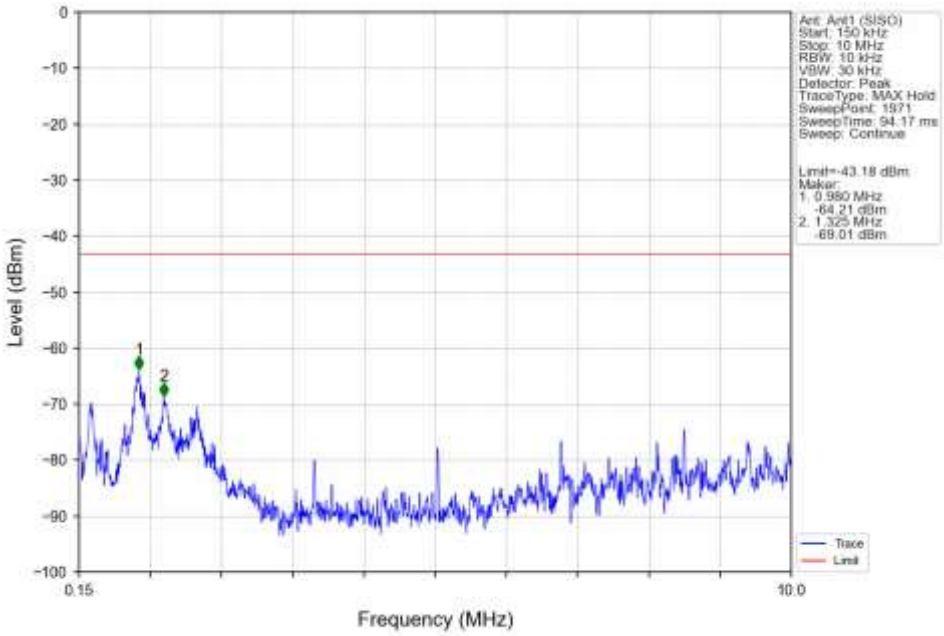
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



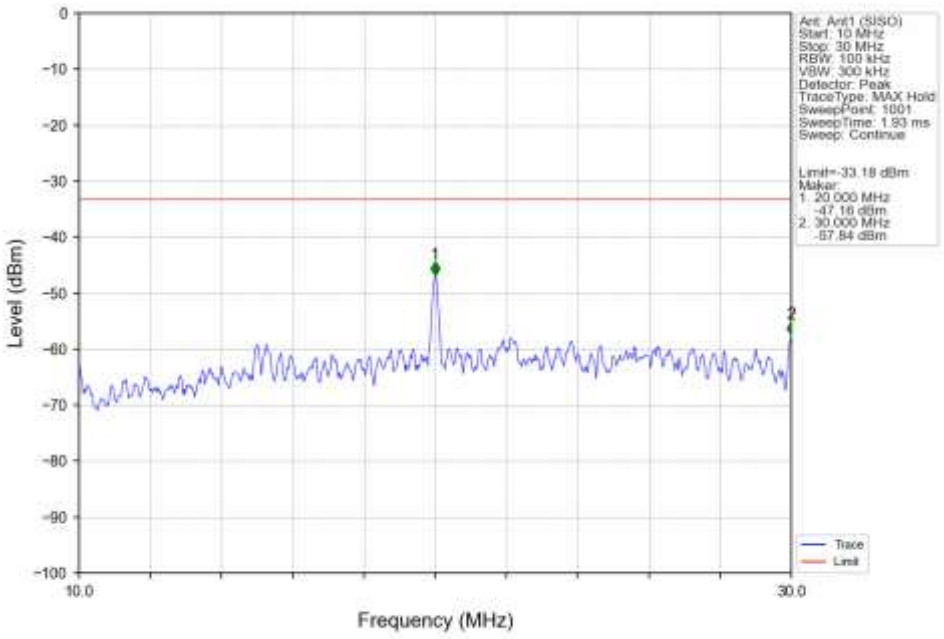
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



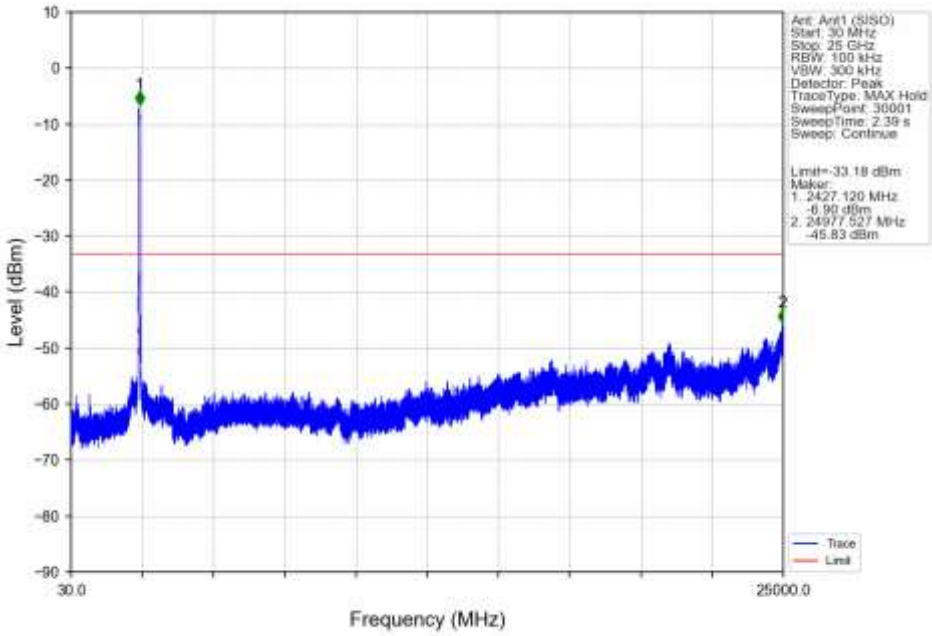
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



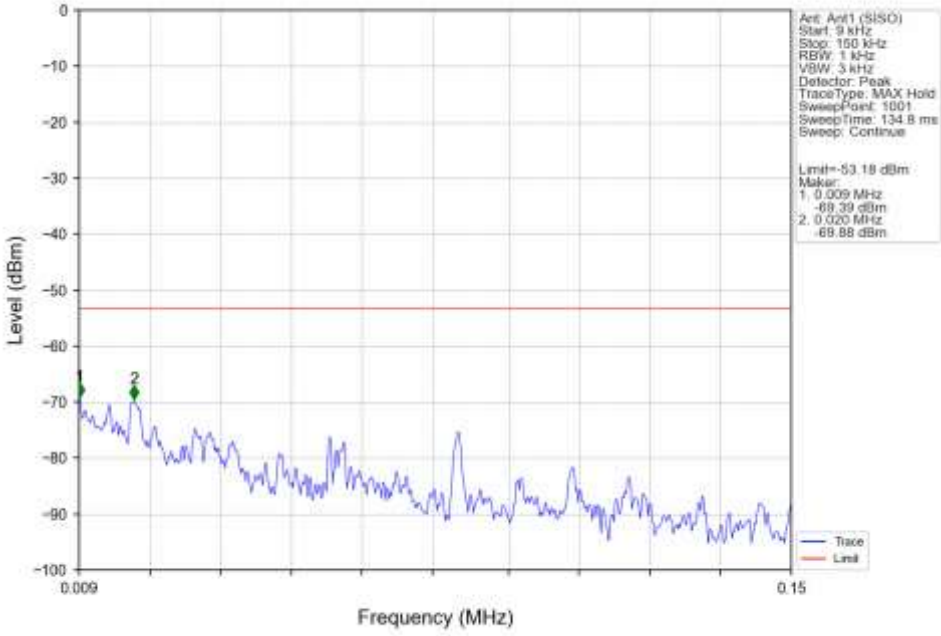
802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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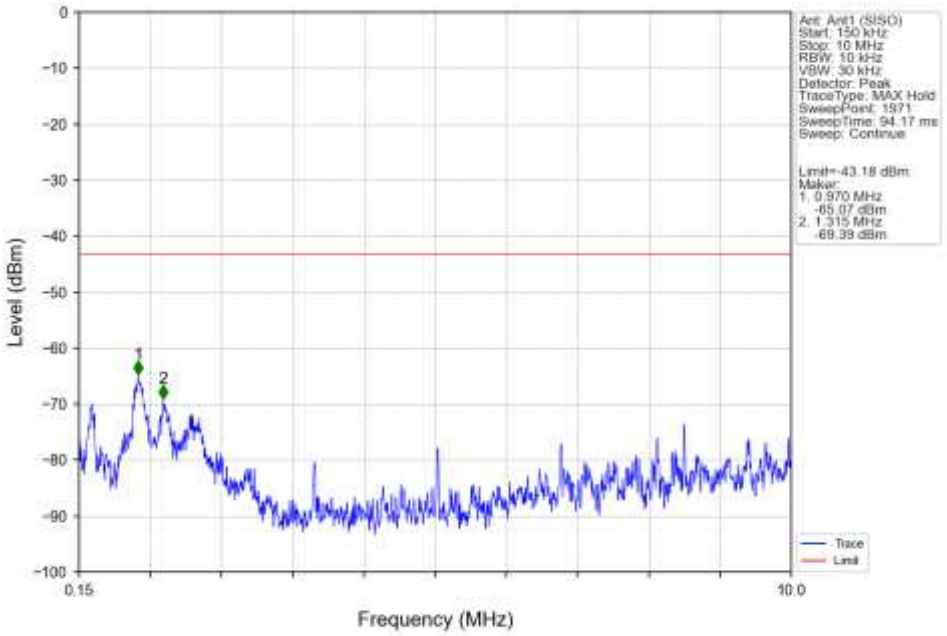

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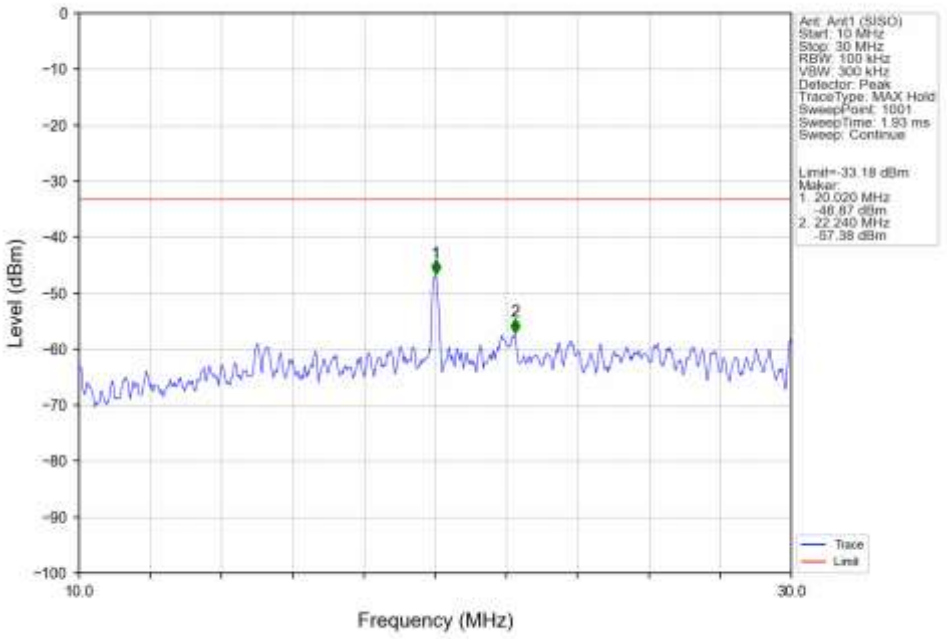
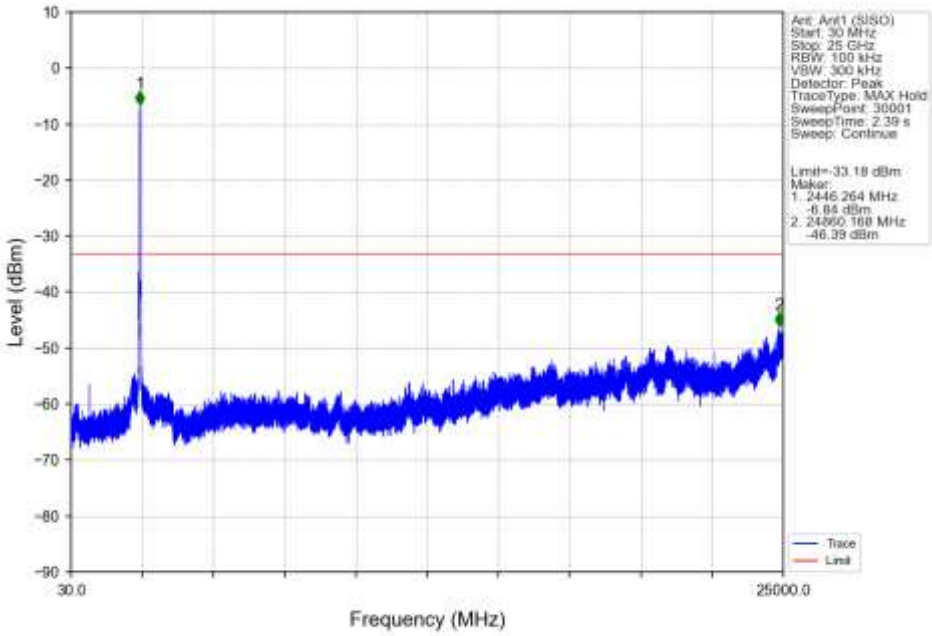


802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



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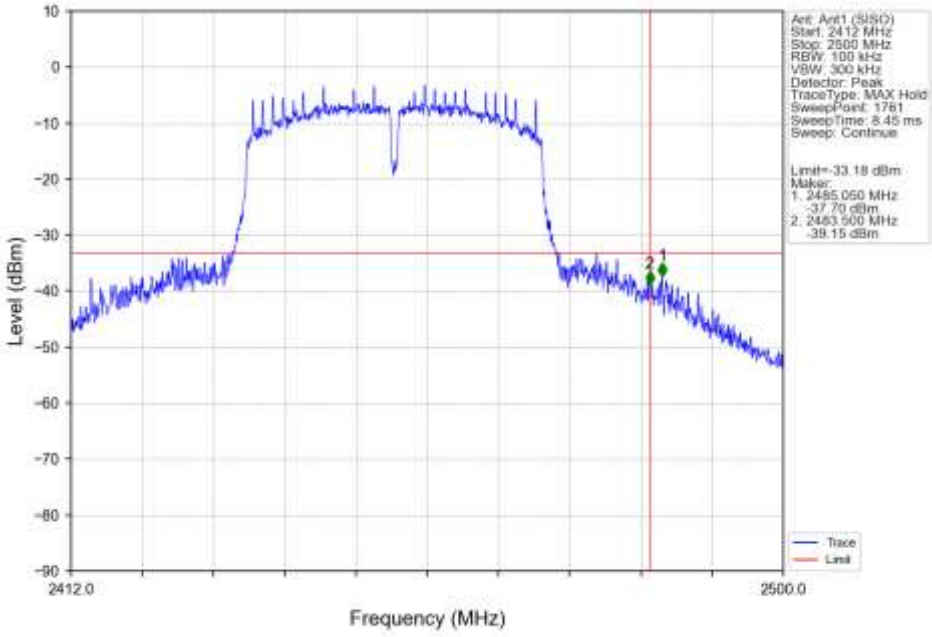
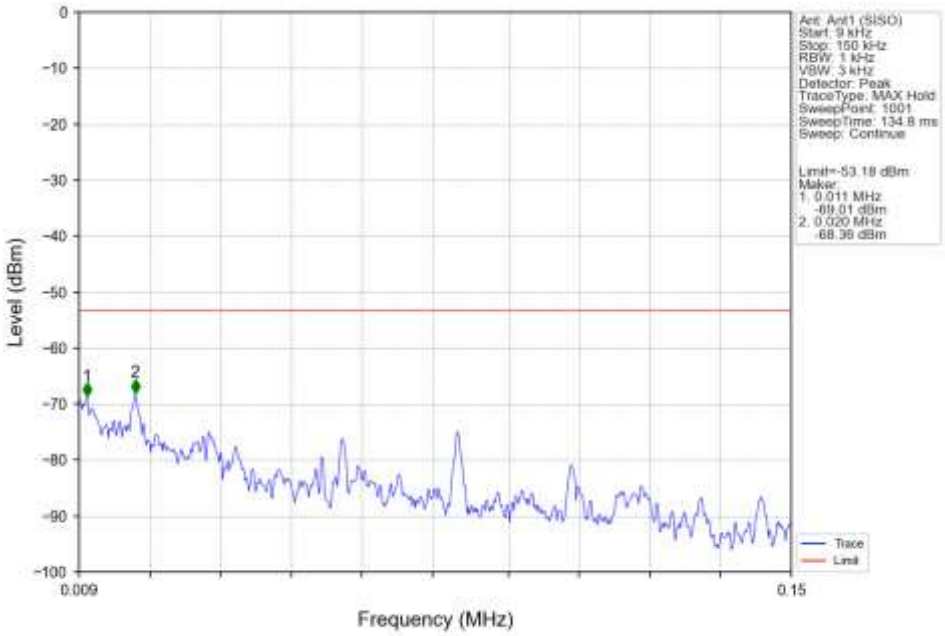
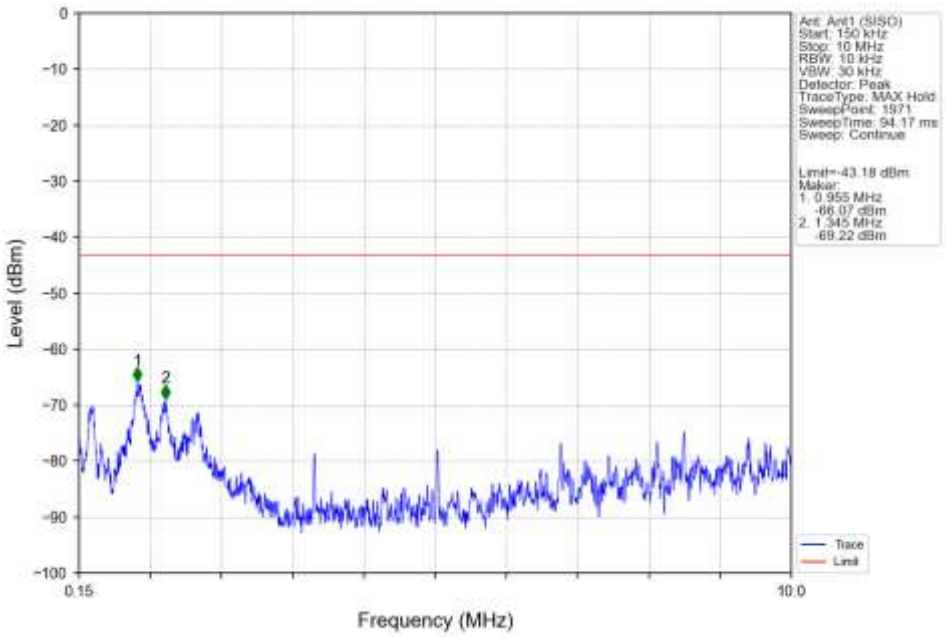


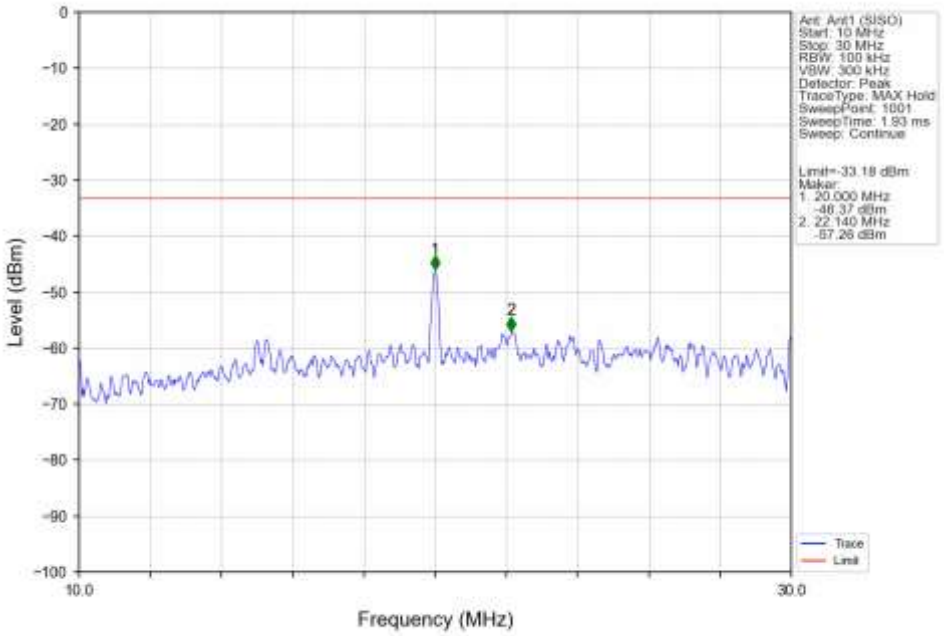
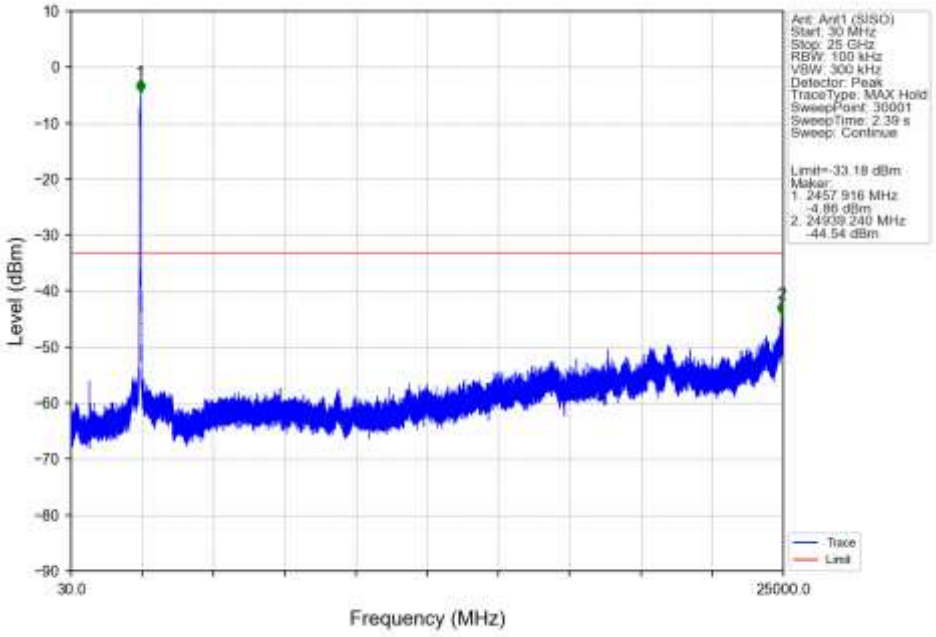
802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV