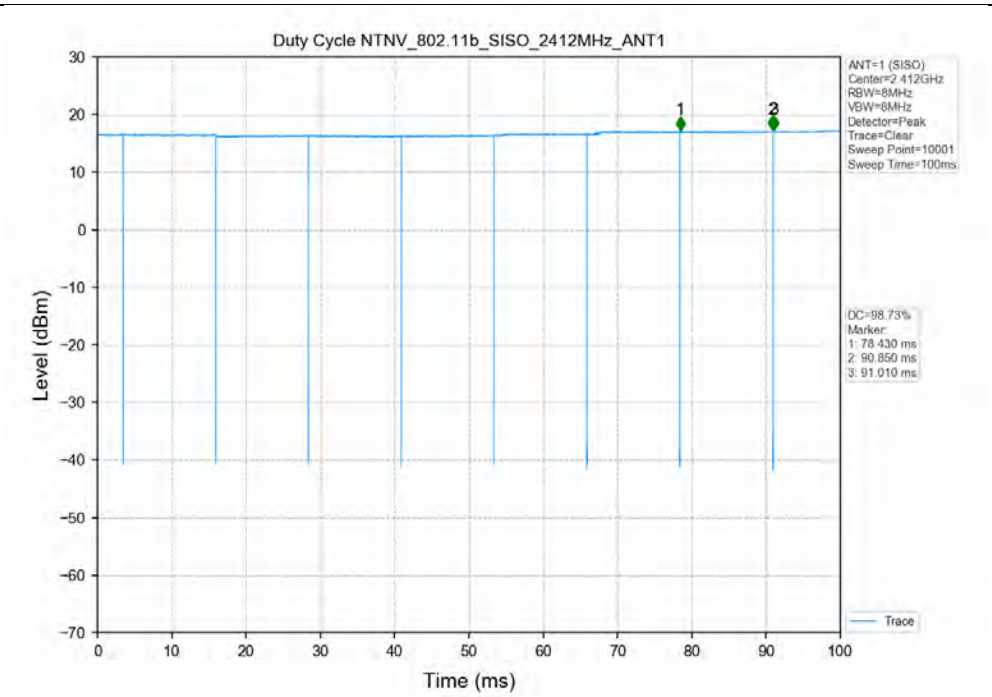
Appendix A for SHEM200400266201

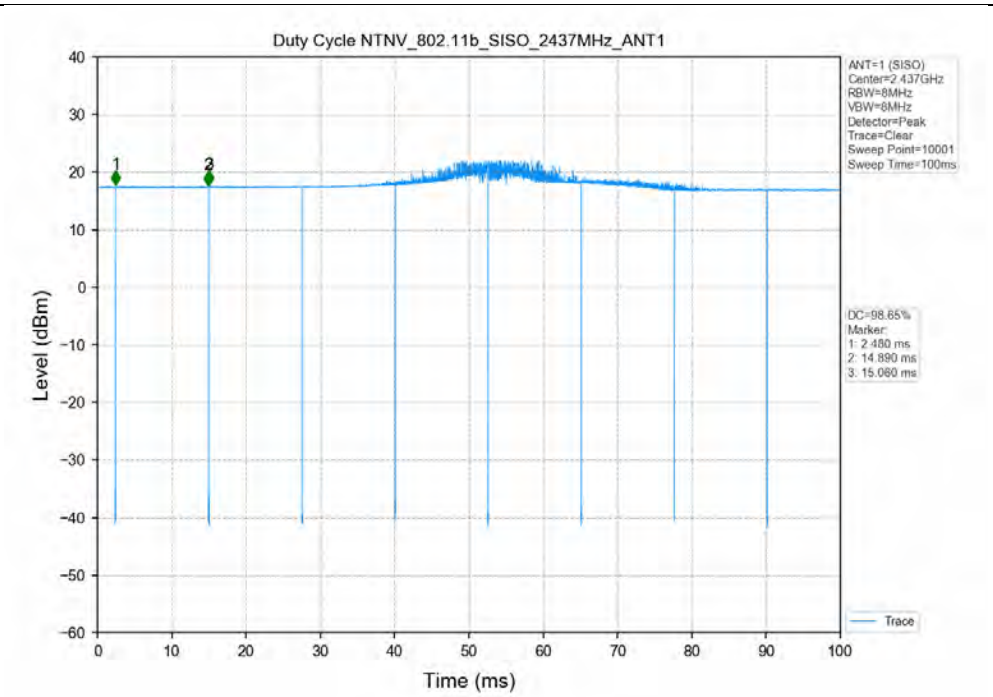
1. Duty Cycle

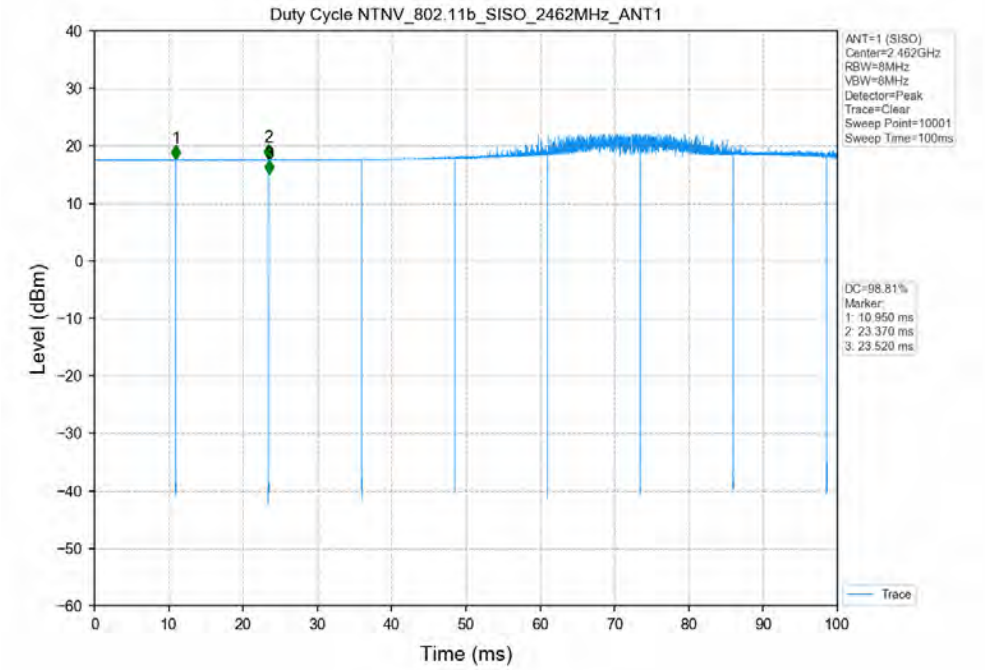
1.1 Test Result

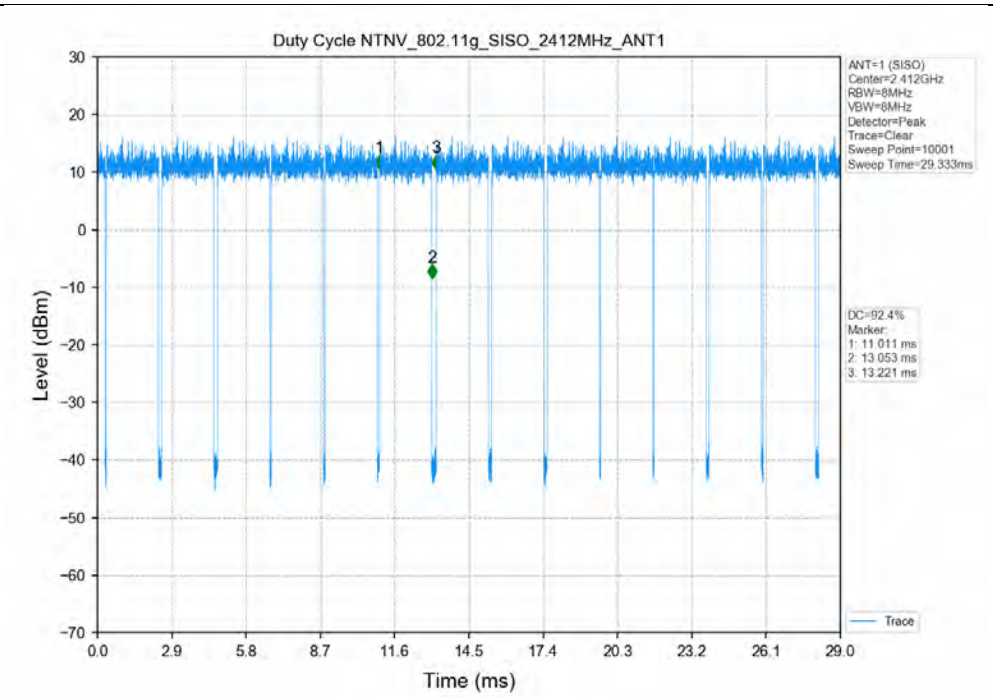
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.420	12.580	98.73	0.06
	2437	SISO	1	12.410	12.580	98.65	0.06
	2462	SISO	1	12.420	12.570	98.81	0.05
802.11g	2412	SISO	1	2.042	2.210	92.40	0.34
	2437	SISO	1	2.042	2.210	92.40	0.34
	2462	SISO	1	2.038	2.190	93.06	0.31
802.11n(HT20)	2412	MIMO	1	1.892	2.063	91.71	0.38
	2437	MIMO	1	1.920	2.092	91.78	0.37
	2462	MIMO	1	1.920	2.084	92.13	0.36
802.11n(HT40)	2422	MIMO	1	0.945	1.116	84.68	0.72
	2437	MIMO	1	0.943	1.087	86.75	0.62
	2452	MIMO	1	0.921	1.087	84.73	0.72

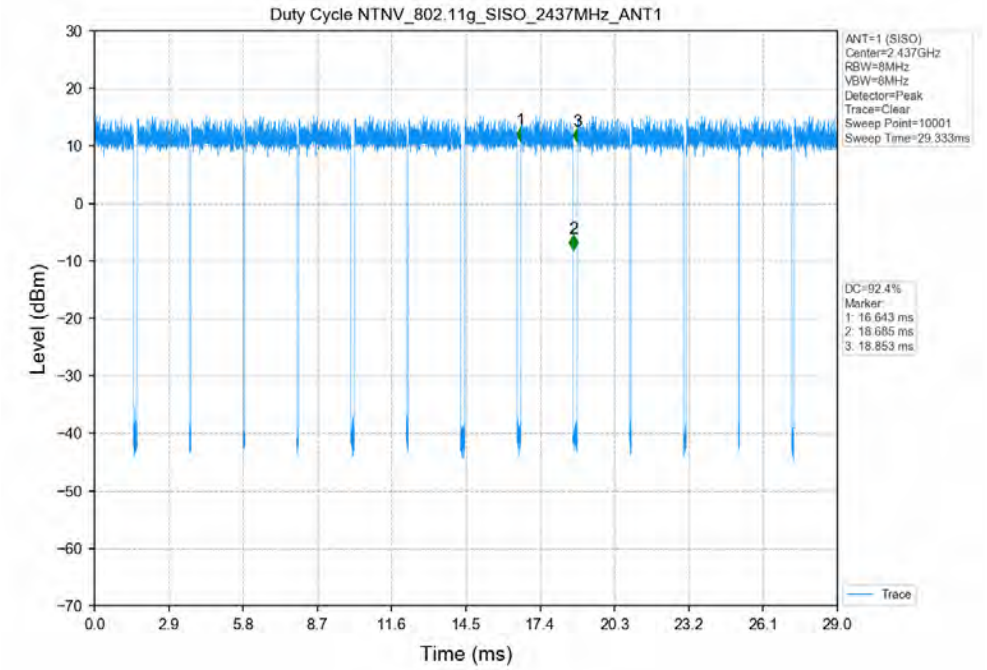
1.2 Test Graph

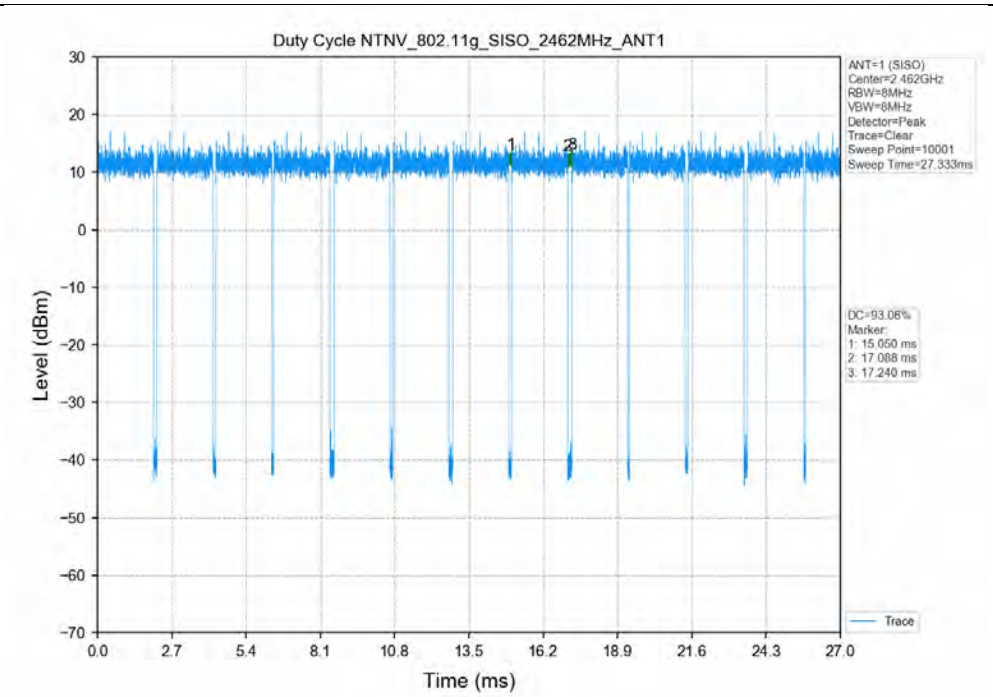


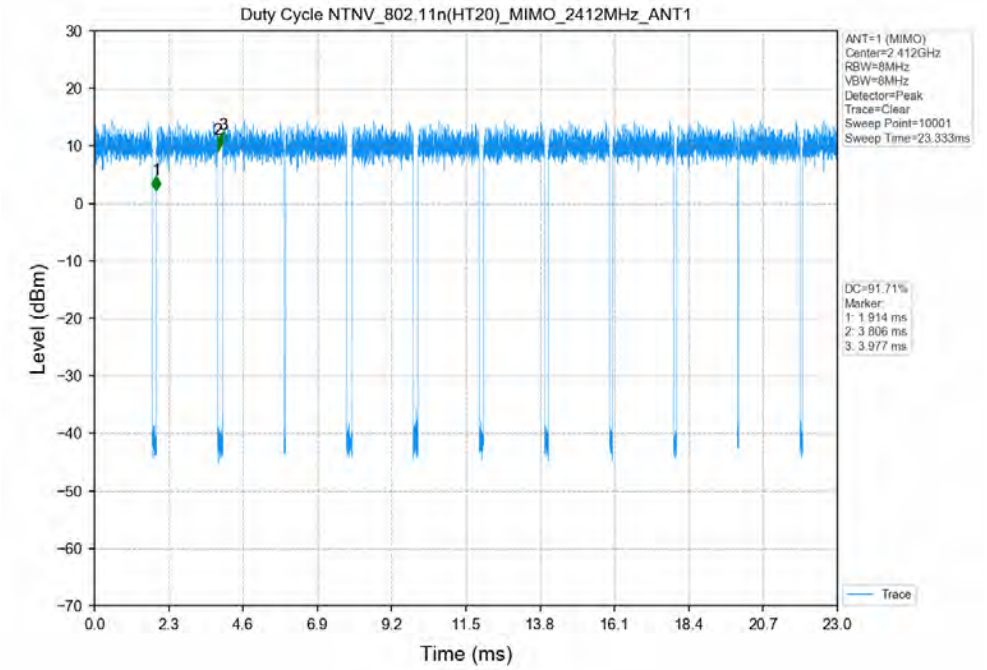

Duty Cycle NTNV_802.11b_SISO_2437MHz_ANT1
ANT=1 (SISO)
Center=2.437GHz
RBW=8MHz
VBW=8MHz
Detector=Peak
Trace=Clear
Sweep Point=10001
Sweep Time=100ms
DC=98.65%
Marker:
1: 2.480 ms
2: 14.890 ms
3: 15.080 ms
Trace
Level (dBm)
Time (ms)

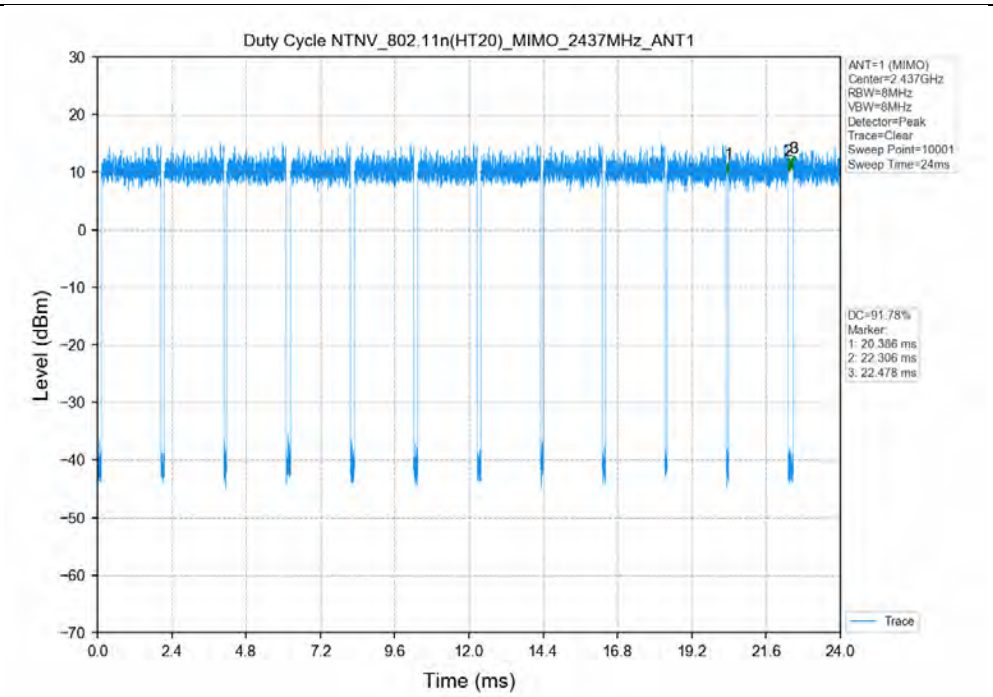

Duty Cycle NTNV_802.11b_SISO_2462MHz_ANT1
ANT=1 (SISO)
Center=2.462GHz
RBW=8MHz
VBW=8MHz
Detector=Peak
Trace=Clear
Sweep Point=10001
Sweep Time=100ms
DC=98.81%
Marker:
1: 10.950 ms
2: 23.370 ms
3: 23.520 ms
Trace
Level (dBm)
Time (ms)

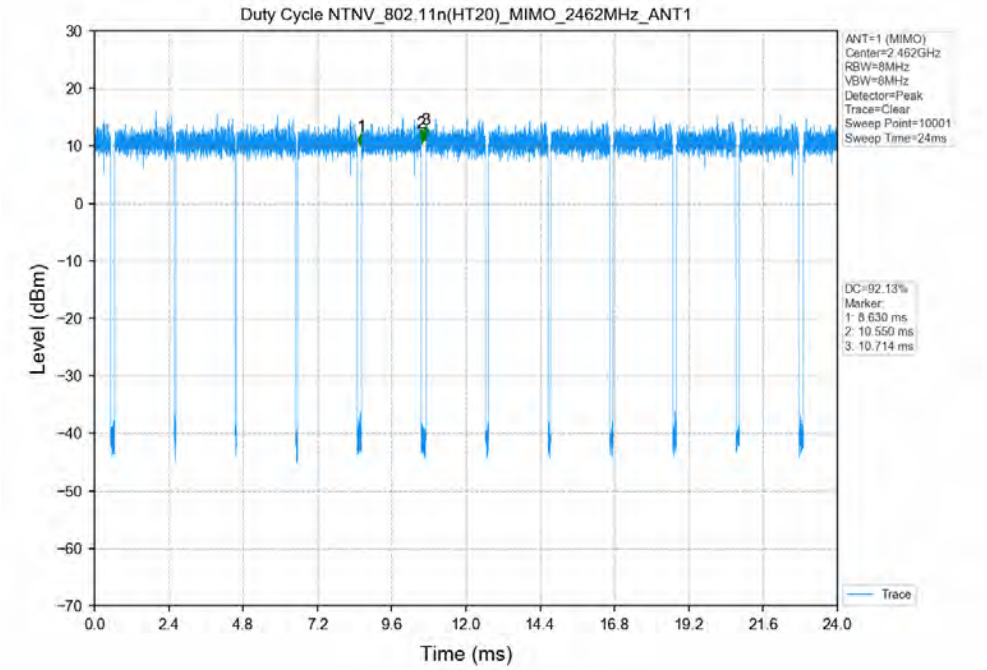

Duty Cycle NTNV_802.11g_SISO_2412MHz_ANT1
ANT=1 (SISO)
Center=2.412GHz
RBW=8MHz
VBW=8MHz
Detector=Peak
Trace=Clear
Sweep Point=10001
Sweep Time=29.333ms
DC=92.4%
Marker:
1: 11.011 ms
2: 13.053 ms
3: 13.221 ms
Trace
Level (dBm)
Time (ms)

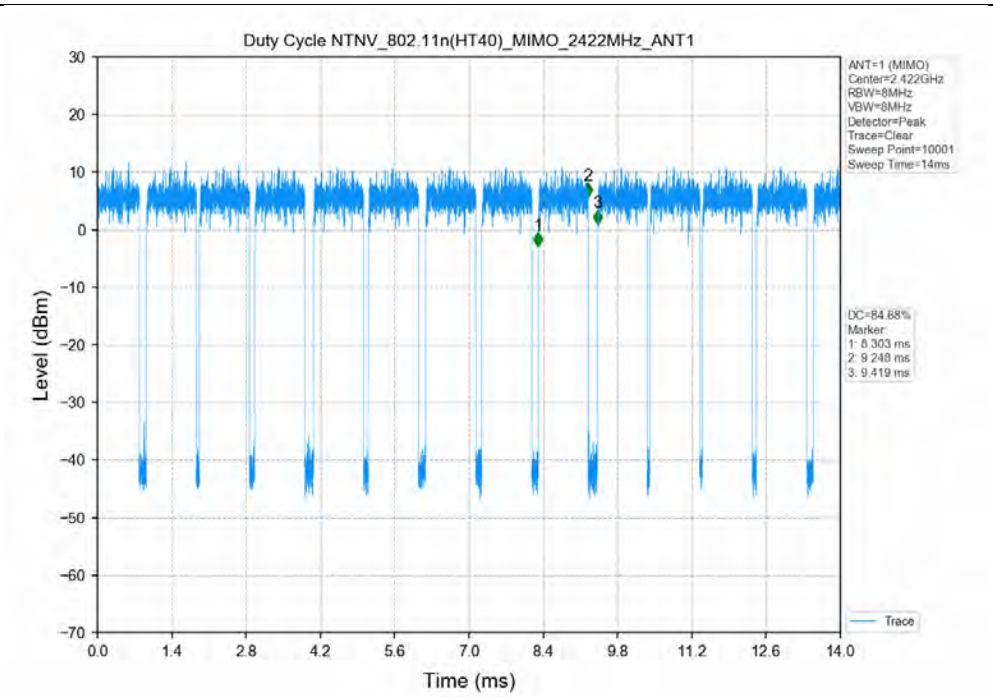

Duty Cycle NTNV_802.11g_SISO_2437MHz_ANT1
ANT=1 (SISO)
Center=2.437GHz
RBW=8MHz
VBW=8MHz
Detector=Peak
Trace=Clear
Sweep Point=10001
Sweep Time=29.333ms
DC=92.4%
Marker:
1: 16.643 ms
2: 18.685 ms
3: 18.853 ms
Trace
Level (dBm)
Time (ms)

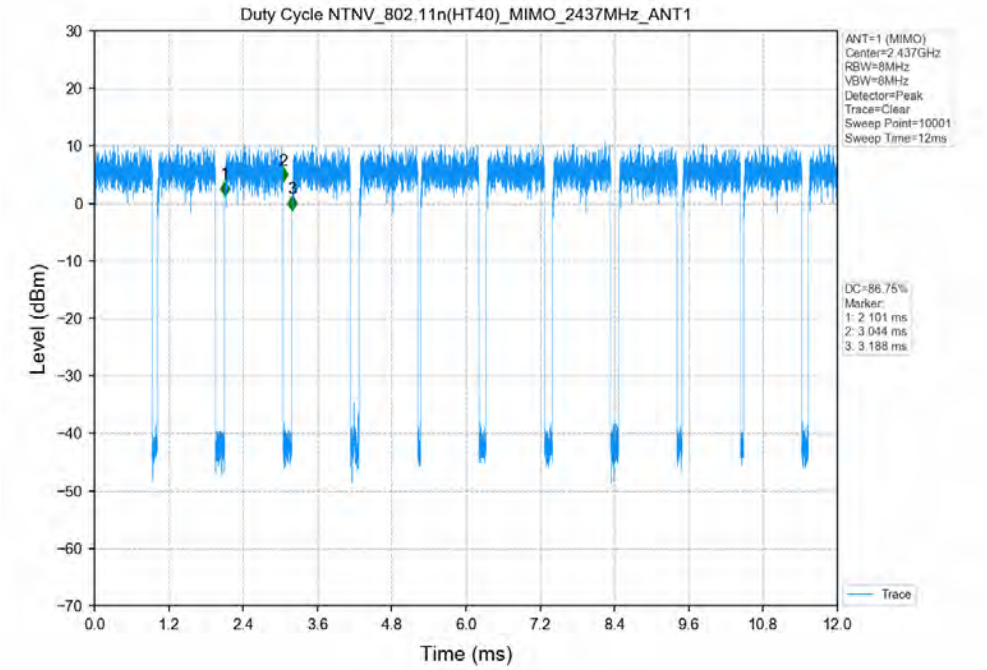

Duty Cycle NTNV_802.11g_SISO_2462MHz_ANT1
ANT=1 (SISO)
Center=2.462GHz
RBW=8MHz
VBW=8MHz
Detector=Peak
Trace=Clear
Sweep Point=10001
Sweep Time=27.333ms
DC=93.06%
Marker:
1: 15.050 ms
2: 17.088 ms
3: 17.240 ms
Trace
Level (dBm)
Time (ms)

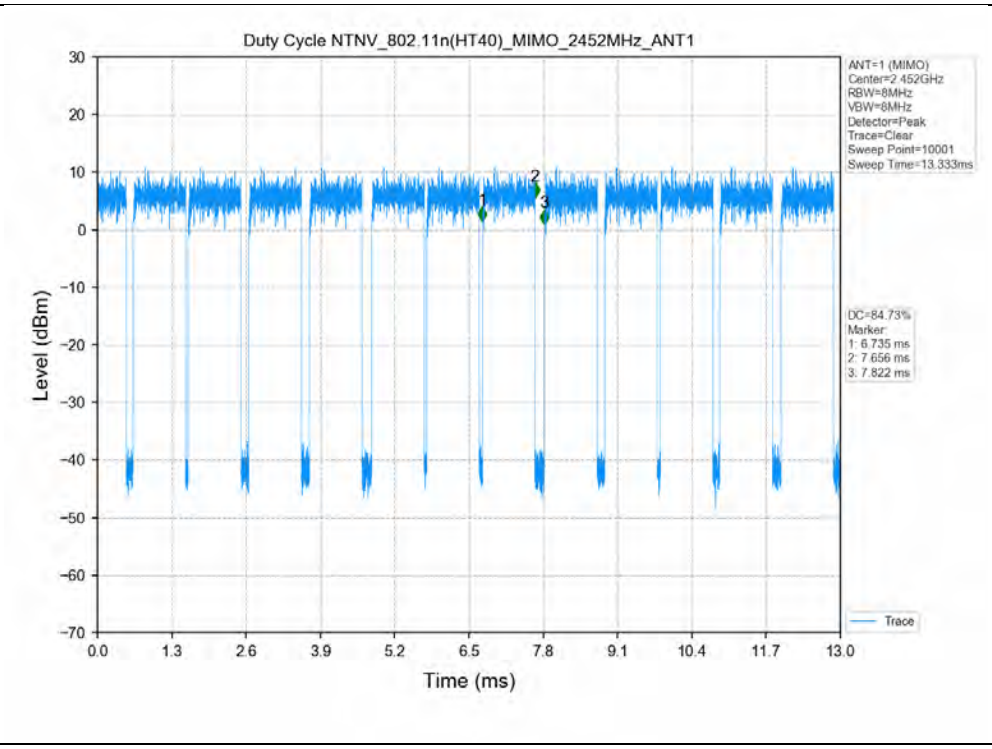

Duty Cycle NTNV_802.11n(HT20)_MIMO_2412MHz_ANT1
ANT=1 (MIMO)
Center=2.412GHz
RBW=8MHz
VBW=8MHz
Detector=Peak
Trace=Clear
Sweep Point=10001
Sweep Time=23.333ms
DC=91.71%
Marker:
1: 1.914 ms
2: 3.806 ms
3: 3.977 ms
Trace
Level (dBm)
Time (ms)


Duty Cycle NTNV_802.11n(HT20)_MIMO_2437MHz_ANT1
ANT=1 (MIMO)
Center=2.437GHz
RBW=8MHz
VBW=8MHz
Detector=Peak
Trace=Clear
Sweep Point=10001
Sweep Time=24ms
DC=91.78%
Marker:
1: 20.386 ms
2: 22.306 ms
3: 22.478 ms
Trace
Level (dBm)
Time (ms)


Duty Cycle NTNV_802.11n(HT20)_MIMO_2462MHz_ANT1
ANT=1 (MIMO)
Center=2.462GHz
RBW=8MHz
VBW=8MHz
Detector=Peak
Trace=Clear
Sweep Point=10001
Sweep Time=24ms
DC=92.13%
Marker:
1: 8.630 ms
2: 10.550 ms
3: 10.714 ms
Trace
Level (dBm)
Time (ms)


Duty Cycle NTNV_802.11n(HT40)_MIMO_2422MHz_ANT1
ANT=1 (MIMO)
Center=2.422GHz
RBW=8MHz
VBW=8MHz
Detector=Peak
Trace=Clear
Sweep Point=10001
Sweep Time=14ms
DC=84.68%
Marker:
1: 8.303 ms
2: 9.248 ms
3: 9.419 ms
Trace
Level (dBm)
Time (ms)


Duty Cycle NTNV_802.11n(HT40)_MIMO_2437MHz_ANT1
ANT=1 (MIMO)
Center=2.437GHz
RBW=8MHz
VBW=8MHz
Detector=Peak
Trace=Clear
Sweep Point=10001
Sweep Time=12ms
DC=86.75%
Marker:
1: 2.101 ms
2: 3.044 ms
3: 3.188 ms
Trace
Level (dBm)
Time (ms)



2. Bandwidth

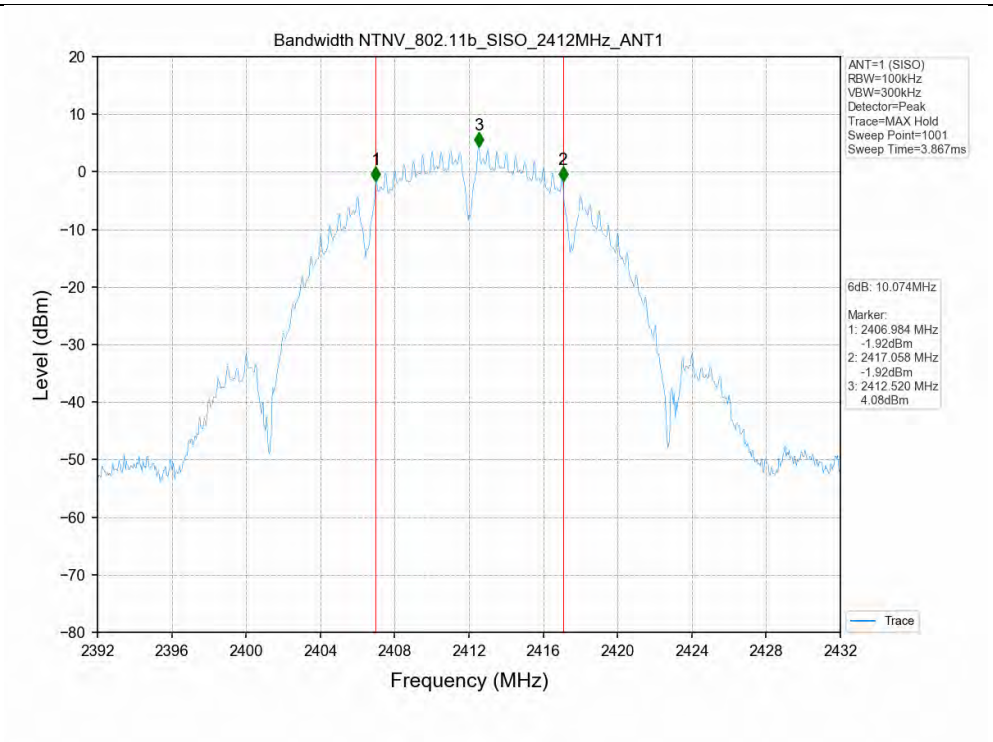
2.1 Test Result

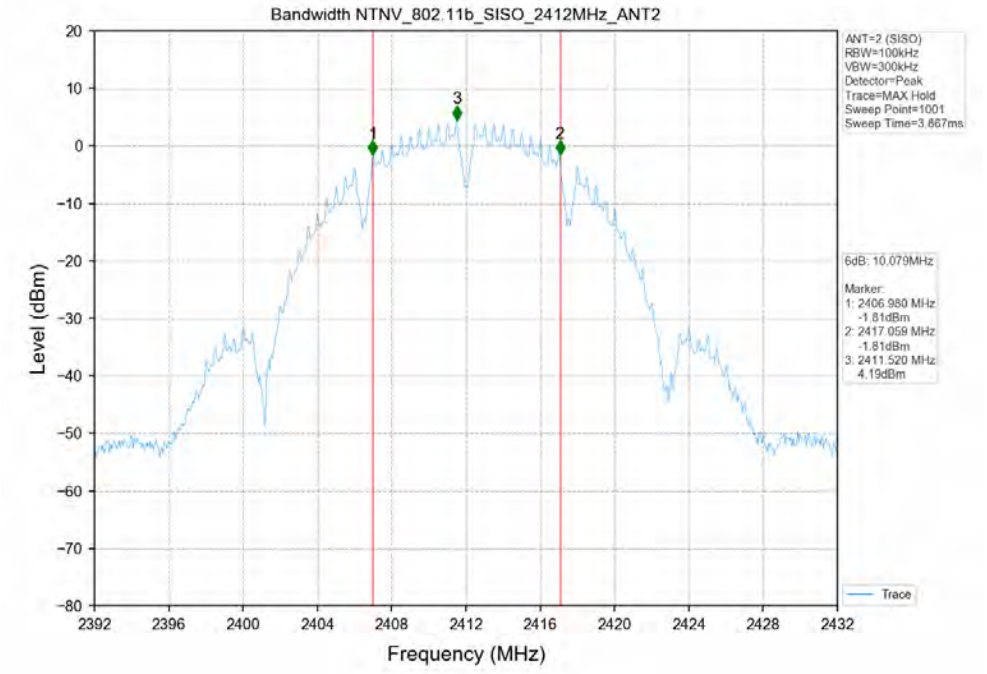
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	10.074	≥0.5	PASS
			2	10.079	≥0.5	PASS
	2437	SISO	1	9.581	≥0.5	PASS
			2	9.584	≥0.5	PASS
	2462	SISO	1	10.073	≥0.5	PASS
			2	10.046	≥0.5	PASS
802.11g	2412	SISO	1	16.443	≥0.5	PASS
			2	16.407	≥0.5	PASS
	2437	SISO	1	16.410	≥0.5	PASS
			2	16.414	≥0.5	PASS
	2462	SISO	1	16.419	≥0.5	PASS
			2	16.414	≥0.5	PASS
802.11n(HT20)	2412	MIMO	1	17.642	≥0.5	PASS
			2	17.630	≥0.5	PASS
	2437	MIMO	1	17.617	≥0.5	PASS
			2	17.644	≥0.5	PASS
	2462	MIMO	1	17.638	≥0.5	PASS
			2	17.626	≥0.5	PASS
802.11n(HT40)	2422	MIMO	1	35.522	≥0.5	PASS
			2	35.548	≥0.5	PASS
	2437	MIMO	1	35.826	≥0.5	PASS

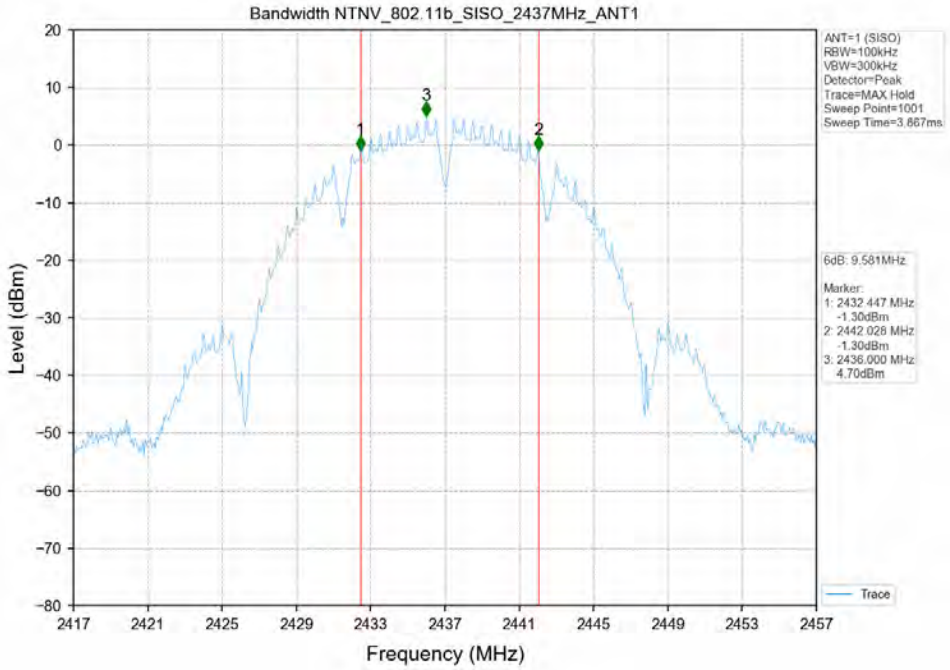
			2	35.789	≥0.5	PASS
	2452	MIMO	1	35.390	≥0.5	PASS
			2	36.056	≥0.5	PASS

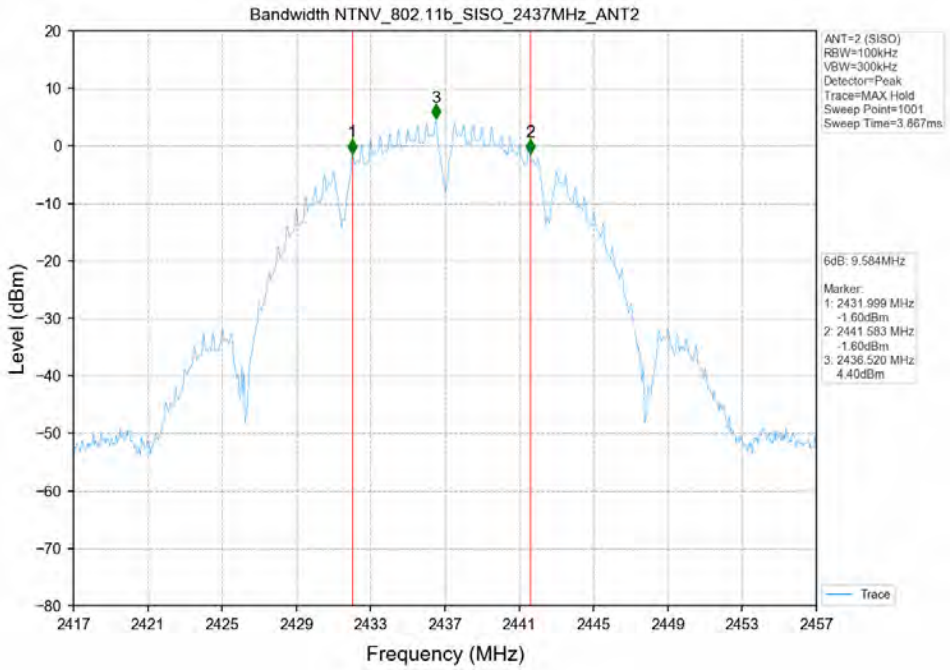
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth Test Result (MHz)	
802.11b	2412	SISO	1	15.086	Only for Report Use
			2	15.117	Only for Report Use
	2437	SISO	1	15.092	Only for Report Use
			2	15.115	Only for Report Use
	2462	SISO	1	15.087	Only for Report Use
			2	15.106	Only for Report Use
802.11g	2412	SISO	1	16.966	Only for Report Use
			2	17.070	Only for Report Use
	2437	SISO	1	17.004	Only for Report Use
			2	17.015	Only for Report Use
	2462	SISO	1	17.056	Only for Report Use
			2	16.964	Only for Report Use
802.11n(HT20)	2412	MIMO	1	18.059	Only for Report Use
			2	18.051	Only for Report Use
	2437	MIMO	1	18.039	Only for Report Use
			2	18.035	Only for Report Use
	2462	MIMO	1	18.171	Only for Report Use
			2	18.150	Only for Report Use
802.11n(HT40)	2422	MIMO	1	36.586	Only for Report Use
			2	36.622	Only for Report Use
	2437	MIMO	1	36.713	Only for Report Use
			2	36.843	Only for Report Use
	2452	MIMO	1	36.619	Only for Report Use
			2	36.718	Only for Report Use

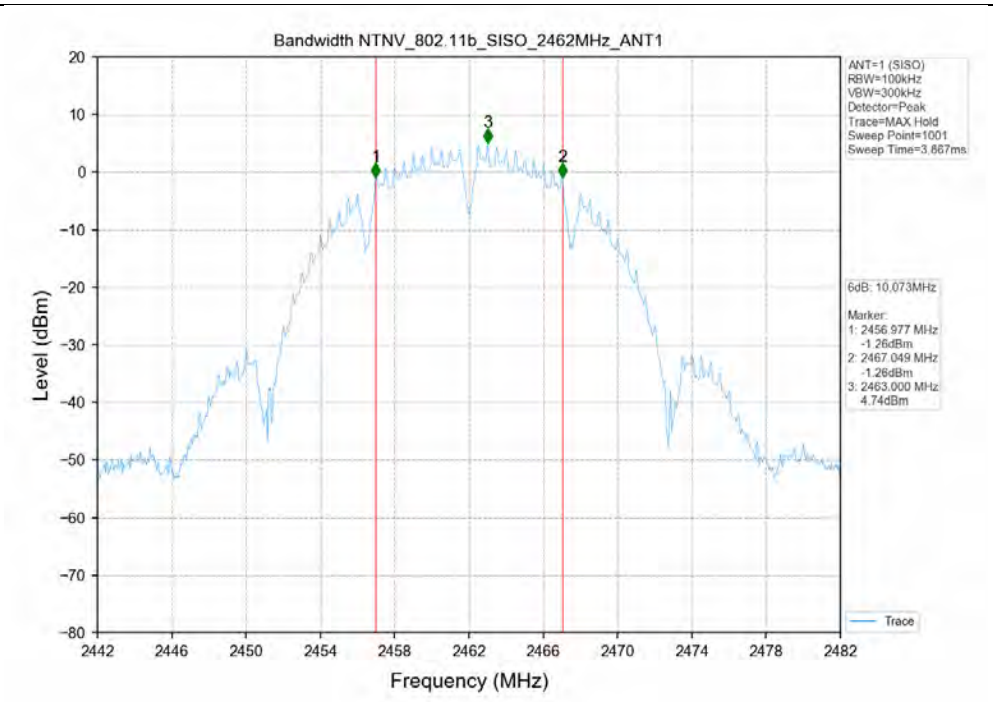
2.2 Test Graph - 6dB Bandwidth

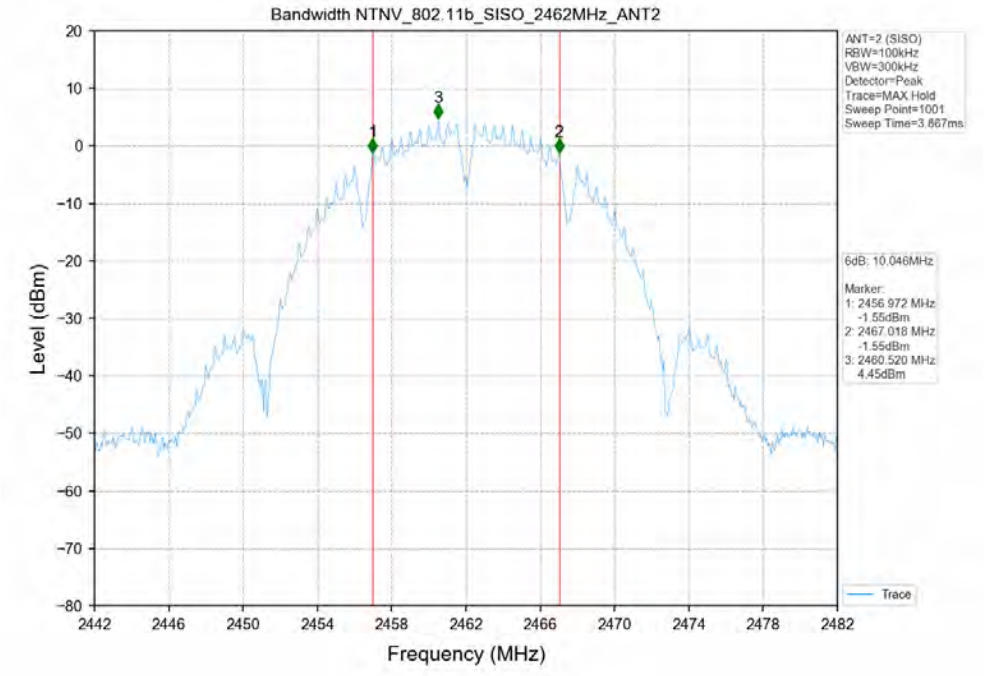

Bandwidth NTNV_802.11b_SISO_2412MHz_ANT1
ANT=1 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=3.867ms
6dB: 10.074MHz
Marker:
1: 2406.984 MHz
-1.92dBm
2: 2417.058 MHz
-1.92dBm
3: 2412.520 MHz
4.08dBm
Trace
Level (dBm)
Frequency (MHz)

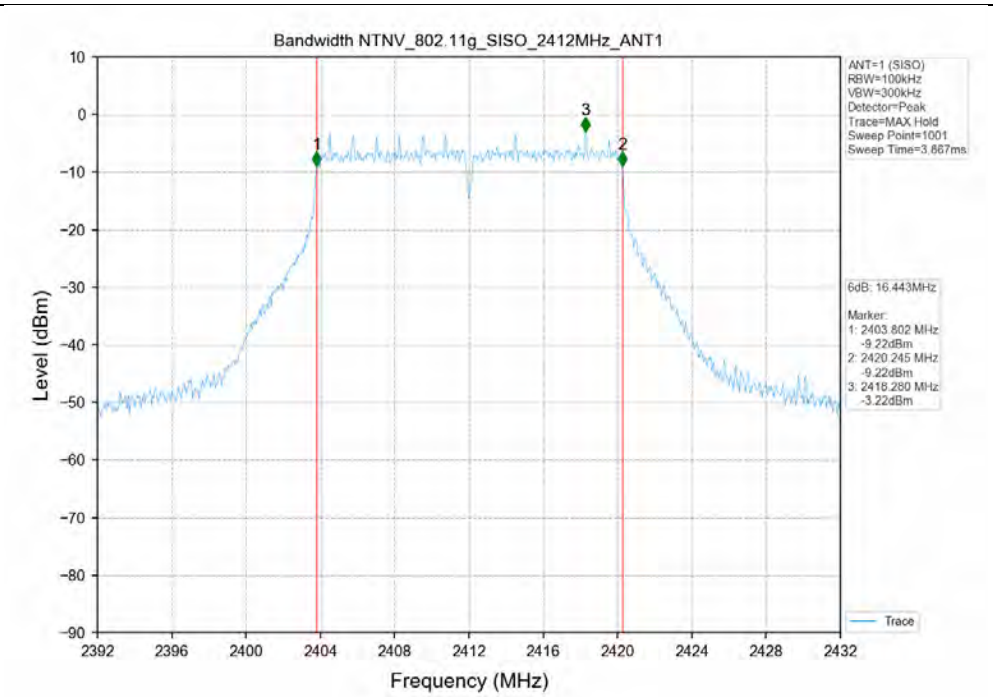

Bandwidth NTNV_802.11b_SISO_2412MHz_ANT2
ANT=2 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=3.867ms
6dB: 10.079MHz
Marker:
1: 2406.980 MHz
-1.81dBm
2: 2417.059 MHz
-1.81dBm
3: 2411.520 MHz
4.19dBm
Trace
Level (dBm)
Frequency (MHz)

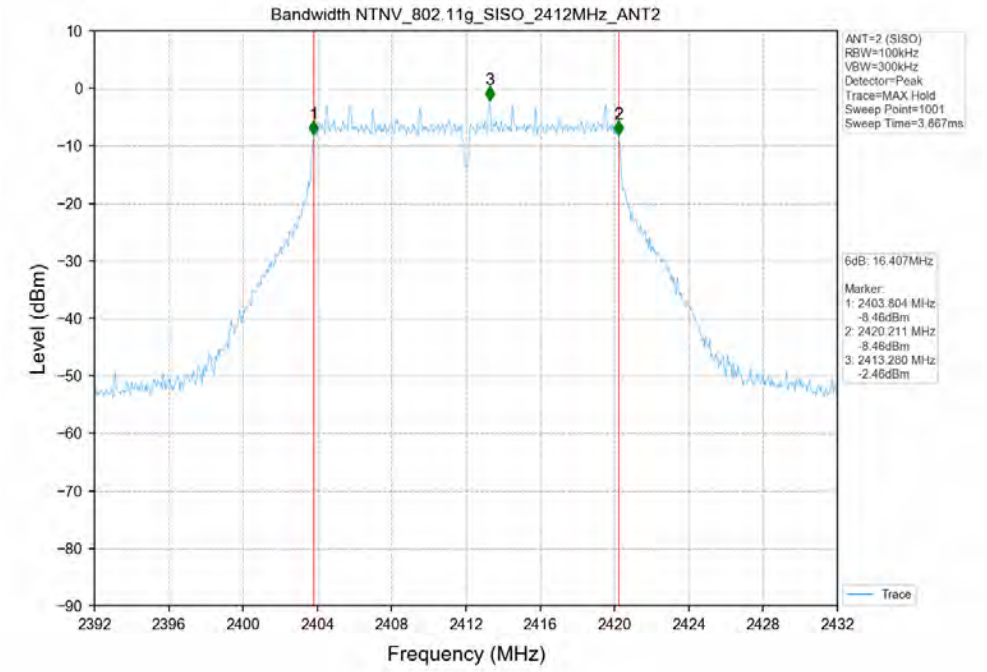

Bandwidth NTNV_802.11b_SISO_2437MHz_ANT1
ANT=1 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=3.667ms
6dB: 9.581MHz
Marker:
1: 2432.447 MHz
-1.30dBm
2: 2442.028 MHz
-1.30dBm
3: 2436.000 MHz
4.70dBm
Trace
Level (dBm)
Frequency (MHz)

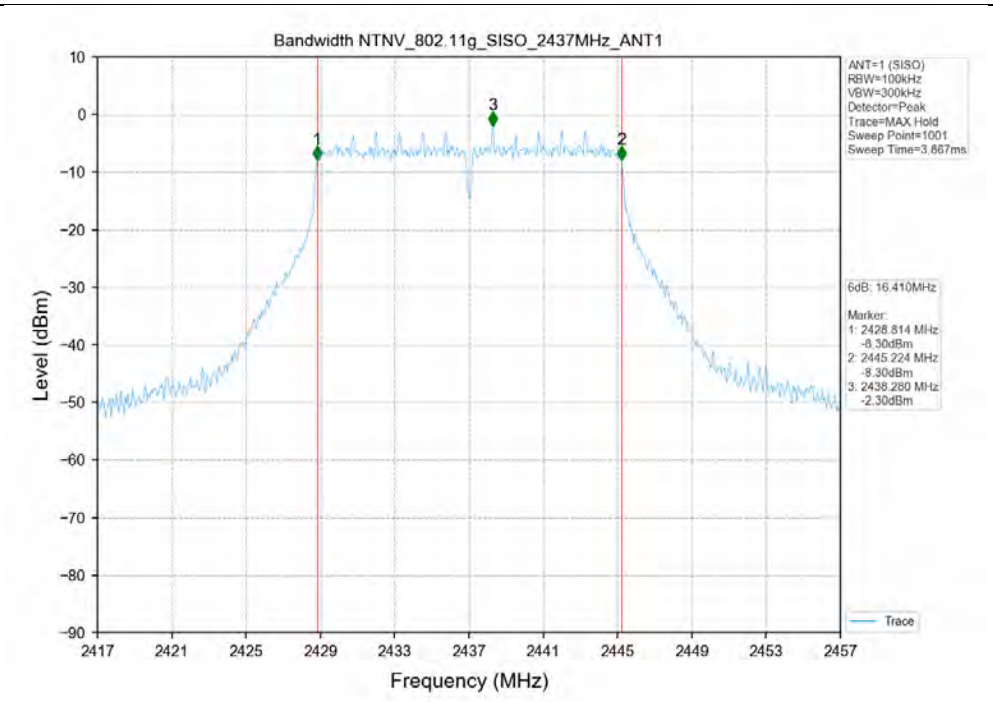

Bandwidth NTNV_802.11b_SISO_2437MHz_ANT2
ANT=2 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=3.667ms
6dB: 9.584MHz
Marker:
1: 2431.999 MHz
-1.60dBm
2: 2441.583 MHz
-1.60dBm
3: 2436.520 MHz
4.40dBm
Trace
Level (dBm)
Frequency (MHz)

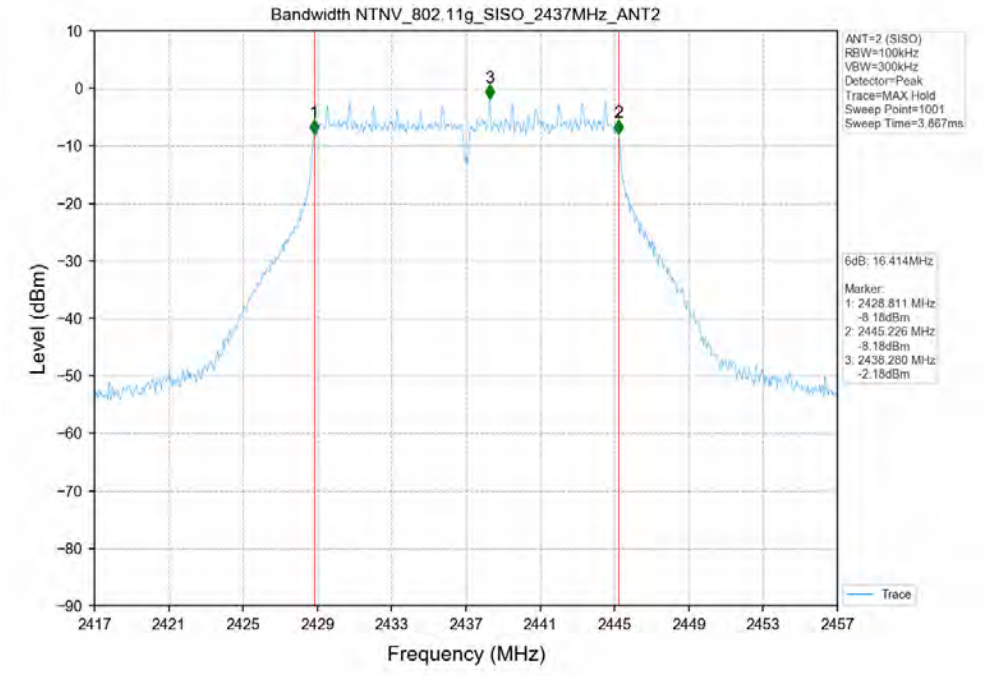

Bandwidth NTNV_802.11b_SISO_2462MHz_ANT1
ANT=1 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=3.667ms
6dB: 10.073MHz
Marker:
1: 2456.977 MHz
-1.26dBm
2: 2467.049 MHz
-1.26dBm
3: 2463.000 MHz
4.74dBm
Trace
Level (dBm)
Frequency (MHz)

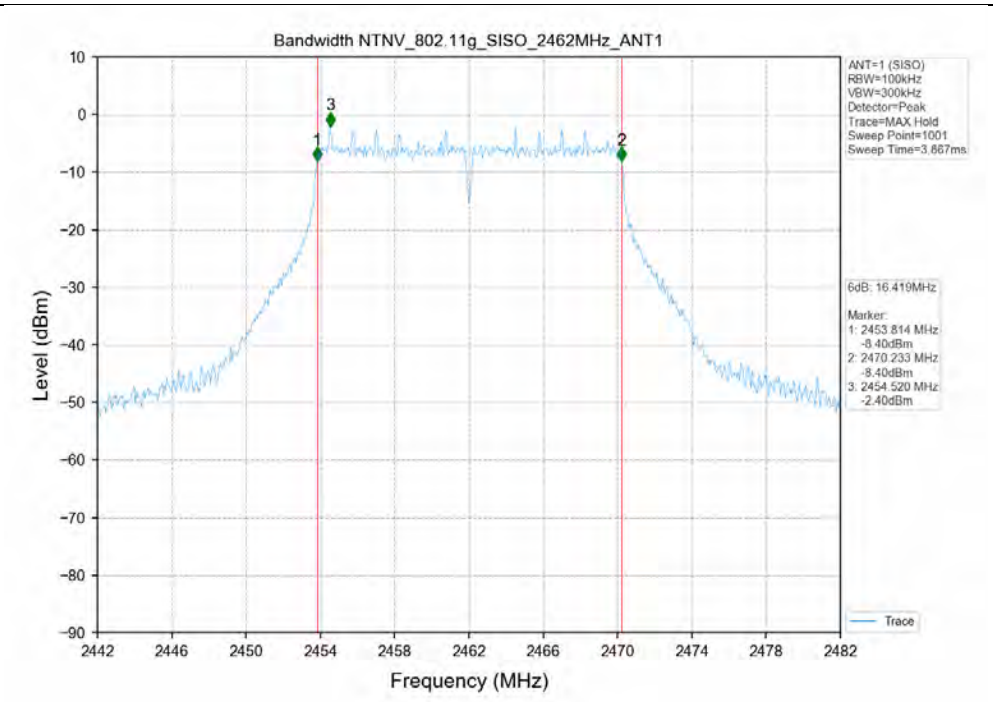

Bandwidth NTNV_802.11b_SISO_2462MHz_ANT2
ANT=2 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=3.667ms
6dB: 10.046MHz
Marker:
1: 2456.972 MHz
-1.55dBm
2: 2467.018 MHz
-1.55dBm
3: 2460.520 MHz
4.45dBm
Trace
Level (dBm)
Frequency (MHz)

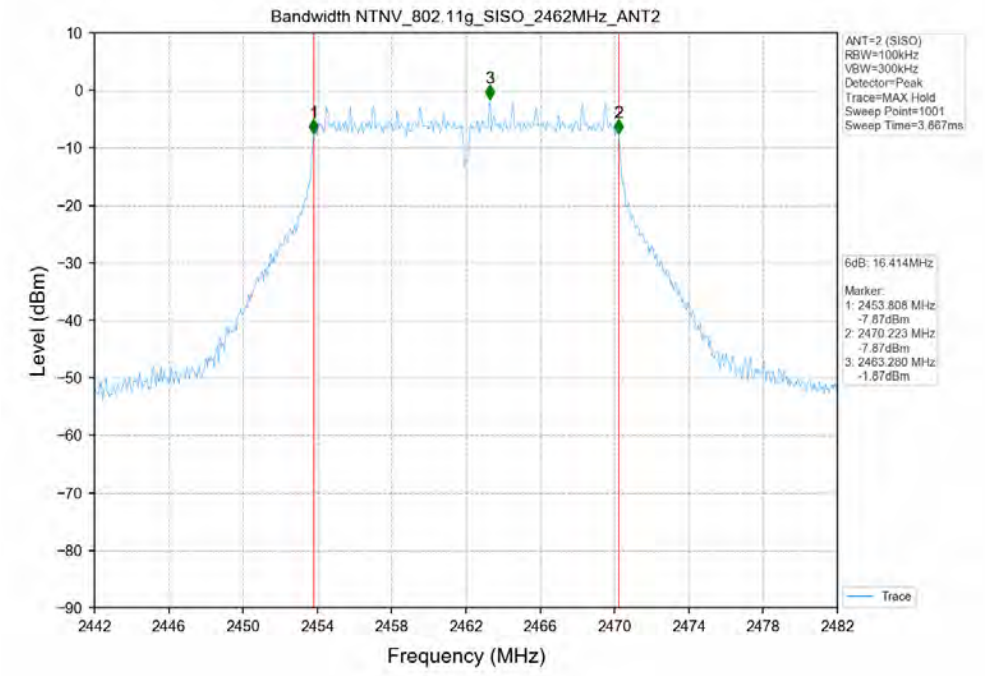

Bandwidth NTNV_802.11g_SISO_2412MHz_ANT1
ANT=1 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=3.667ms
6dB: 16.443MHz
Marker:
1: 2403.802 MHz
-9.22dBm
2: 2420.245 MHz
-9.22dBm
3: 2418.280 MHz
-3.22dBm
Trace
Level (dBm)
Frequency (MHz)

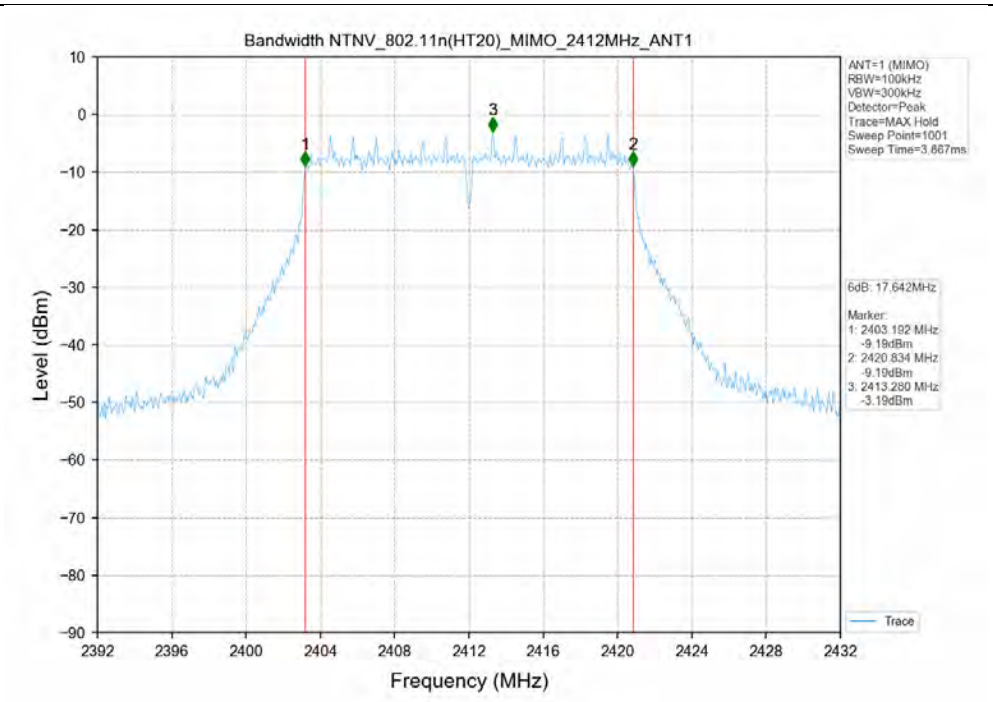

Bandwidth NTNV_802.11g_SISO_2412MHz_ANT2
ANT=2 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=3.667ms
6dB: 16.407MHz
Marker:
1: 2403.804 MHz
-8.46dBm
2: 2420.211 MHz
-8.46dBm
3: 2413.280 MHz
-2.46dBm
Trace
Level (dBm)
Frequency (MHz)

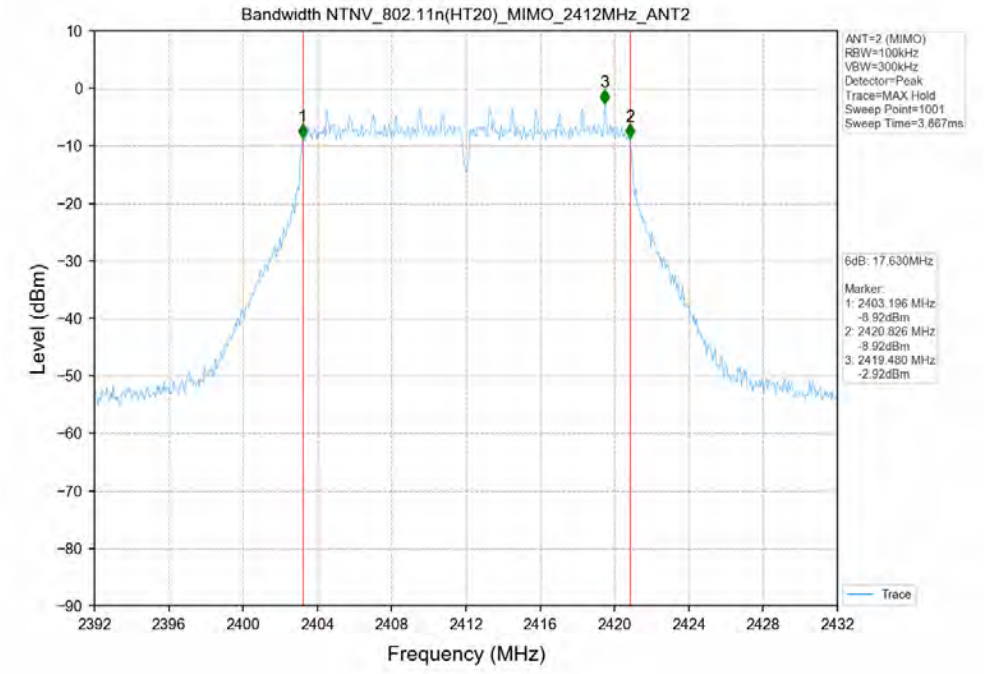

Bandwidth NTNV_802.11g_SISO_2437MHz_ANT1
ANT=1 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=3.667ms
6dB: 16.410MHz
Marker:
1: 2428.814 MHz
-8.30dBm
2: 2445.224 MHz
-8.30dBm
3: 2438.280 MHz
-2.30dBm
Trace
Level (dBm)
Frequency (MHz)

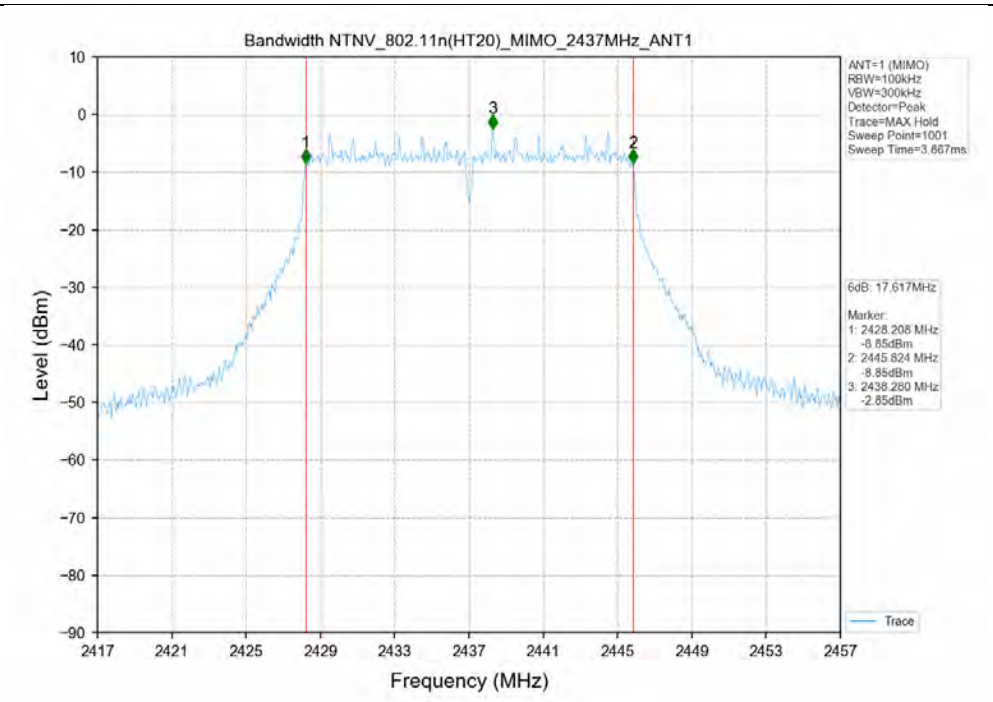

Bandwidth NTNV_802.11g_SISO_2437MHz_ANT2
ANT=2 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=3.667ms
6dB: 16.414MHz
Marker:
1: 2428.811 MHz
-8.18dBm
2: 2445.226 MHz
-8.18dBm
3: 2438.280 MHz
-2.18dBm
Trace
Level (dBm)
Frequency (MHz)

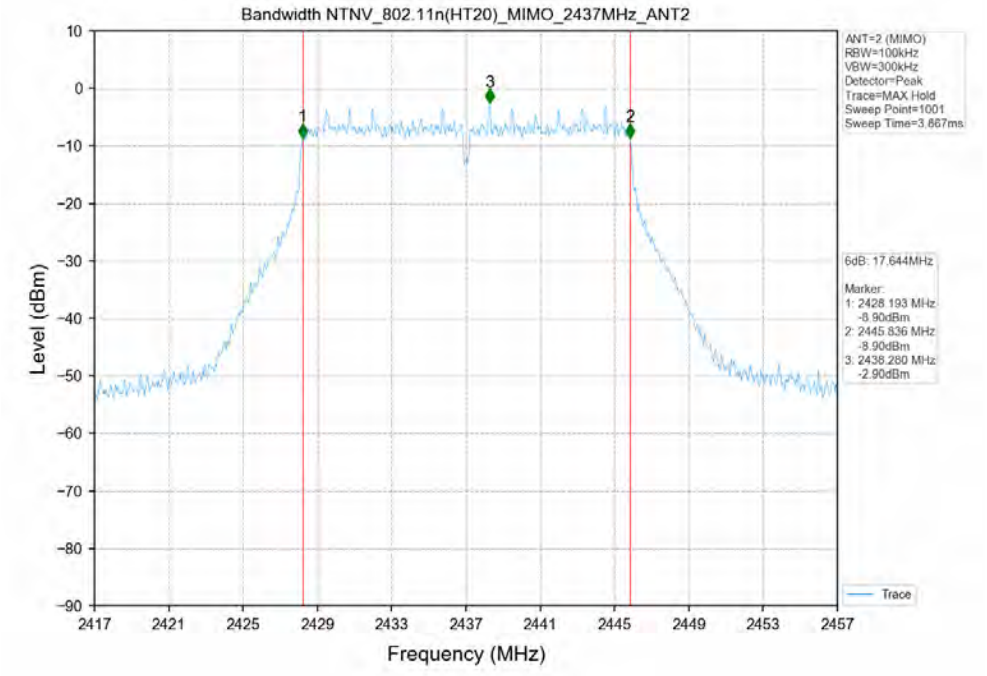

Bandwidth NTNV_802.11g_SISO_2462MHz_ANT1
ANT=1 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=3.667ms
6dB: 16.419MHz
Marker:
1: 2453.814 MHz
-8.40dBm
2: 2470.233 MHz
-8.40dBm
3: 2454.520 MHz
-2.40dBm
Trace
Level (dBm)
Frequency (MHz)

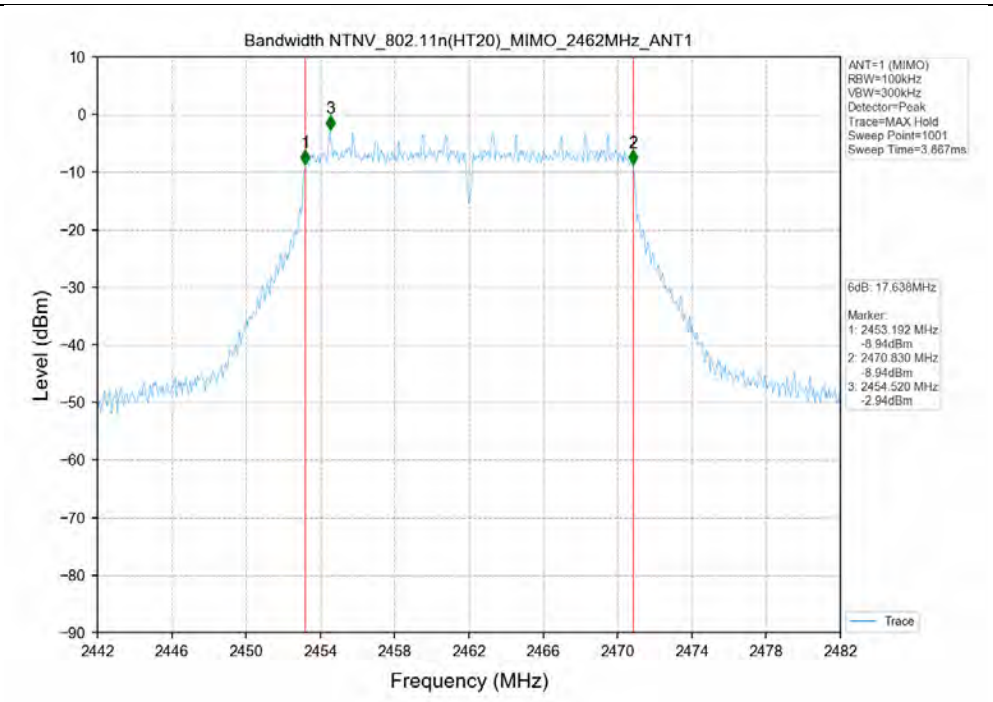

Bandwidth NTNV_802.11g_SISO_2462MHz_ANT2
ANT=2 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=3.667ms
6dB: 16.414MHz
Marker:
1: 2453.808 MHz
-7.87dBm
2: 2470.223 MHz
-7.87dBm
3: 2463.280 MHz
-1.87dBm
Trace
Level (dBm)
Frequency (MHz)

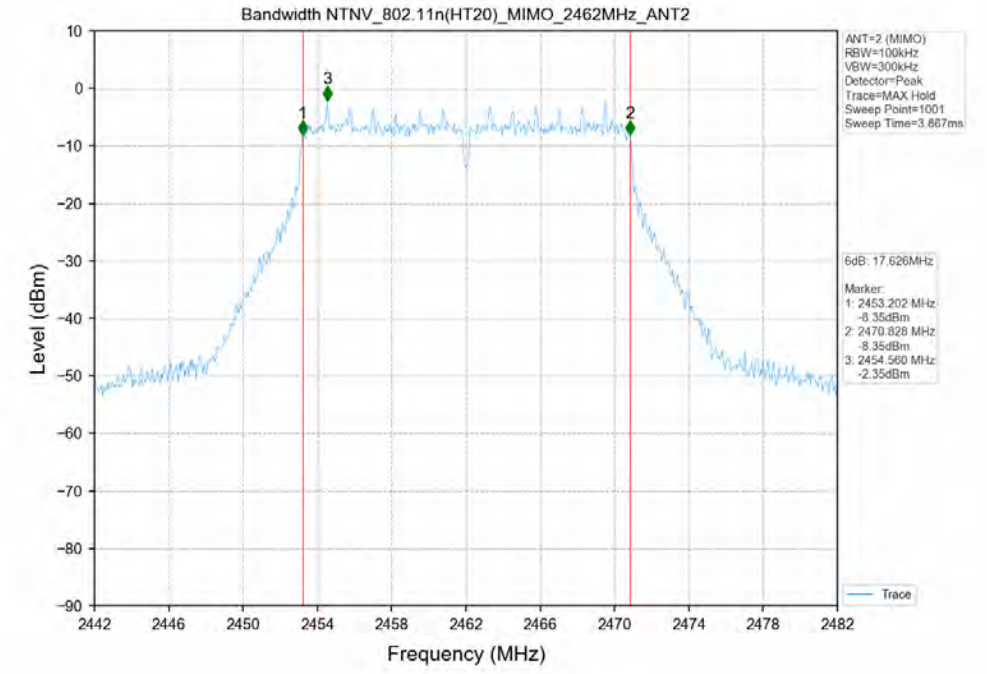

Bandwidth NTNV_802.11n(HT20)_MIMO_2412MHz_ANT1
ANT=1 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=3.667ms
6dB: 17.642MHz
Marker:
1: 2403.192 MHz
-9.19dBm
2: 2420.834 MHz
-9.19dBm
3: 2413.280 MHz
-3.19dBm
Trace
Level (dBm)
Frequency (MHz)

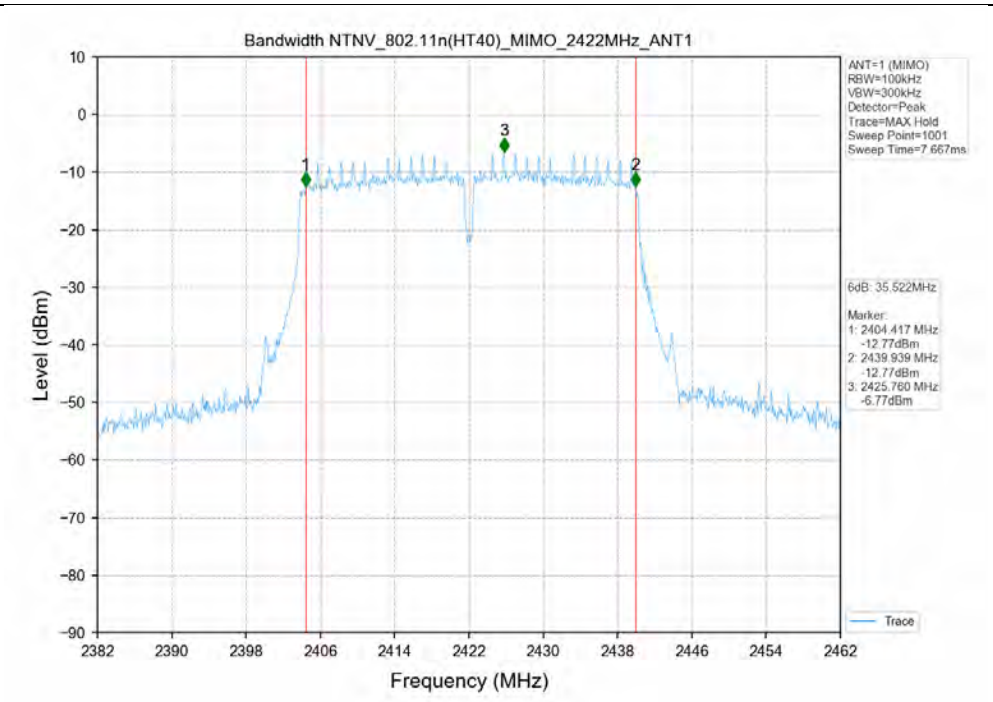

Bandwidth NTNV_802.11n(HT20)_MIMO_2412MHz_ANT2
ANT=2 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=3.667ms
6dB: 17.630MHz
Marker:
1: 2403.196 MHz
-8.92dBm
2: 2420.826 MHz
-8.92dBm
3: 2419.480 MHz
-2.92dBm
Trace
Level (dBm)
Frequency (MHz)

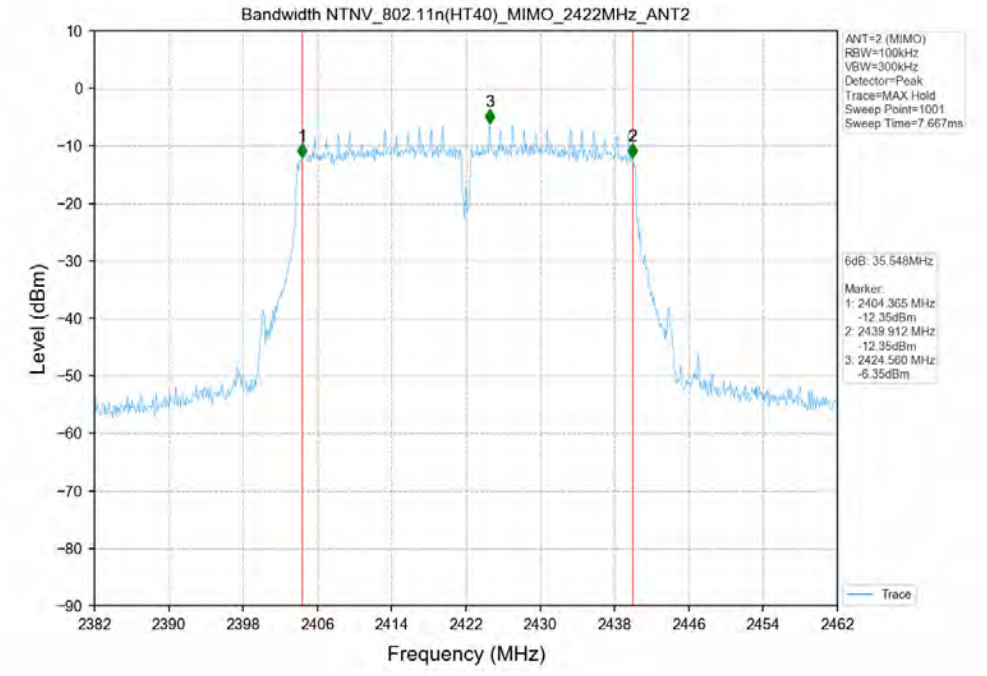

Bandwidth NTNV_802.11n(HT20)_MIMO_2437MHz_ANT1
ANT=1 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=3.667ms
6dB: 17.617MHz
Marker:
1: 2428.208 MHz
-8.85dBm
2: 2445.824 MHz
-8.85dBm
3: 2438.280 MHz
-2.85dBm
Trace
Level (dBm)
Frequency (MHz)

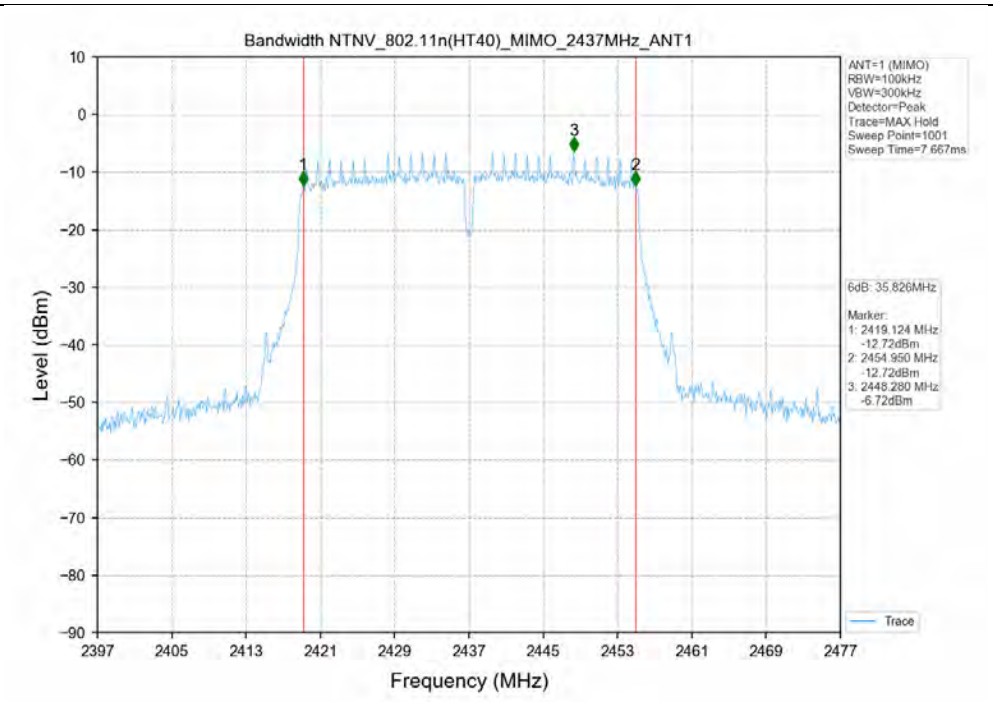

Bandwidth NTNV_802.11n(HT20)_MIMO_2437MHz_ANT2
ANT=2 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=3.667ms
6dB: 17.644MHz
Marker:
1: 2428.193 MHz
-8.90dBm
2: 2445.836 MHz
-8.90dBm
3: 2438.280 MHz
-2.90dBm
Trace
Level (dBm)
Frequency (MHz)

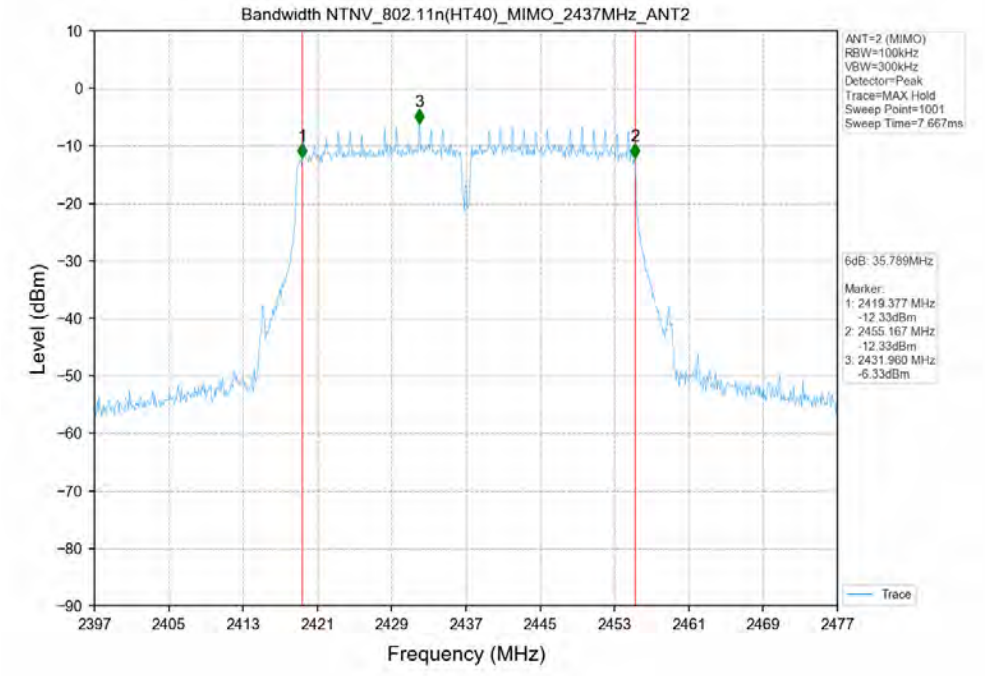

Bandwidth NTNV_802.11n(HT20)_MIMO_2462MHz_ANT1
ANT=1 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=3.667ms
6dB: 17.638MHz
Marker:
1: 2453.192 MHz
-8.94dBm
2: 2470.830 MHz
-8.94dBm
3: 2454.520 MHz
-2.94dBm
Trace
Level (dBm)
Frequency (MHz)

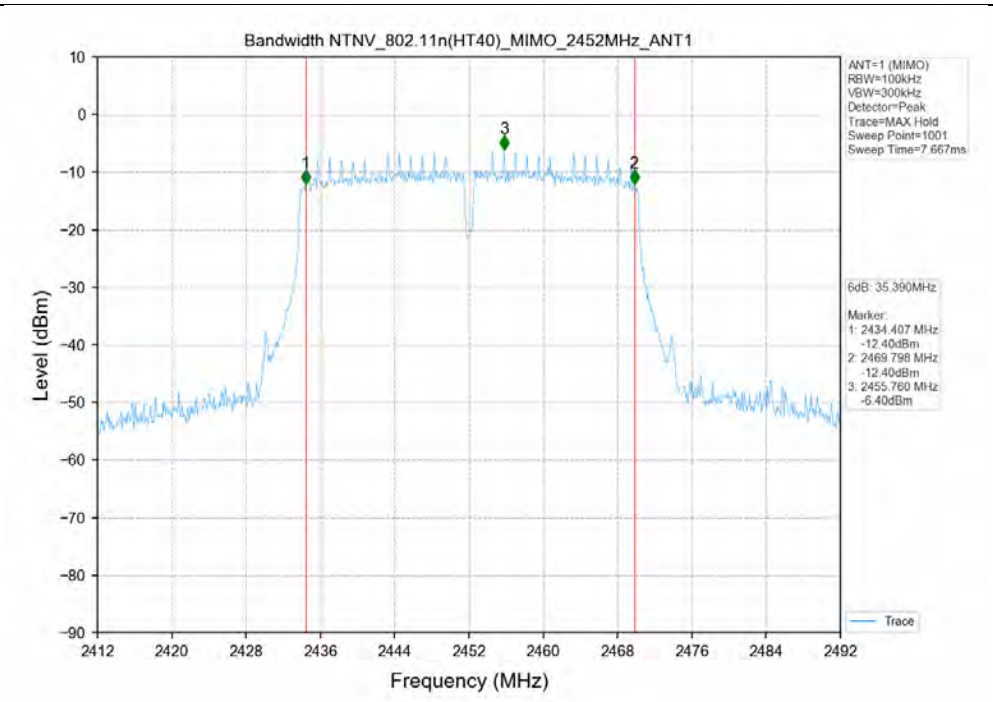

Bandwidth NTNV_802.11n(HT20)_MIMO_2462MHz_ANT2
ANT=2 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=3.667ms
6dB: 17.626MHz
Marker:
1: 2453.202 MHz
-8.35dBm
2: 2470.828 MHz
-8.35dBm
3: 2454.560 MHz
-2.35dBm
Trace
Level (dBm)
Frequency (MHz)

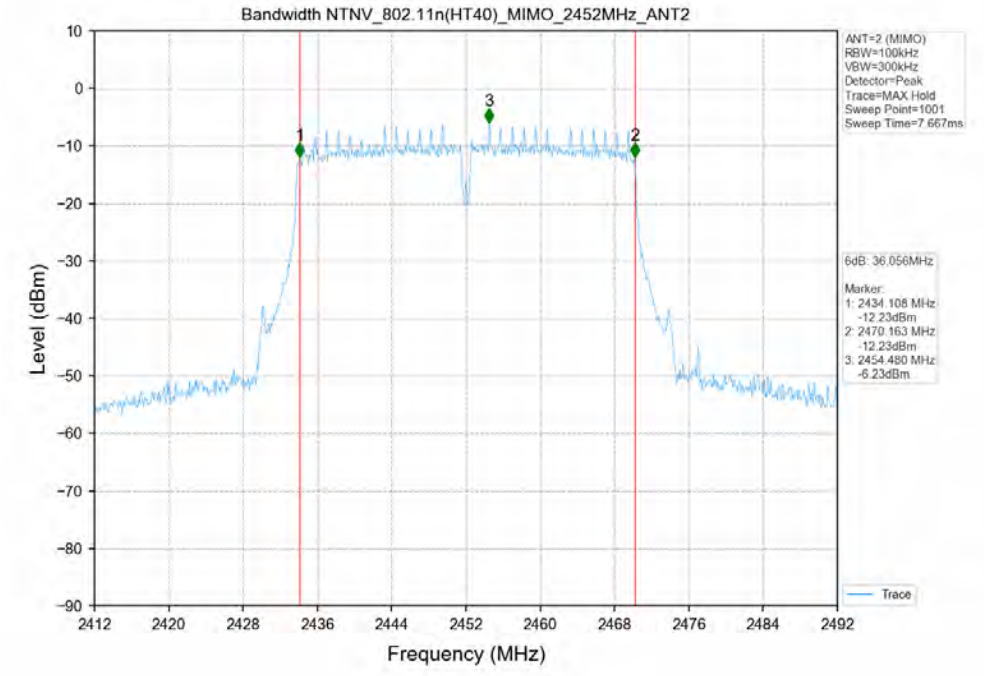

Bandwidth NTNV_802.11n(HT40)_MIMO_2422MHz_ANT1
ANT=1 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=7.667ms
6dB: 35.522MHz
Marker:
1: 2404.417 MHz
-12.77dBm
2: 2439.939 MHz
-12.77dBm
3: 2425.760 MHz
-6.77dBm
Trace
Level (dBm)
Frequency (MHz)


Bandwidth NTNV_802.11n(HT40)_MIMO_2422MHz_ANT2
ANT=2 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=7.667ms
6dB: 35.548MHz
Marker:
1: 2404.365 MHz
-12.35dBm
2: 2439.912 MHz
-12.35dBm
3: 2424.560 MHz
-6.35dBm
Trace
Level (dBm)
Frequency (MHz)

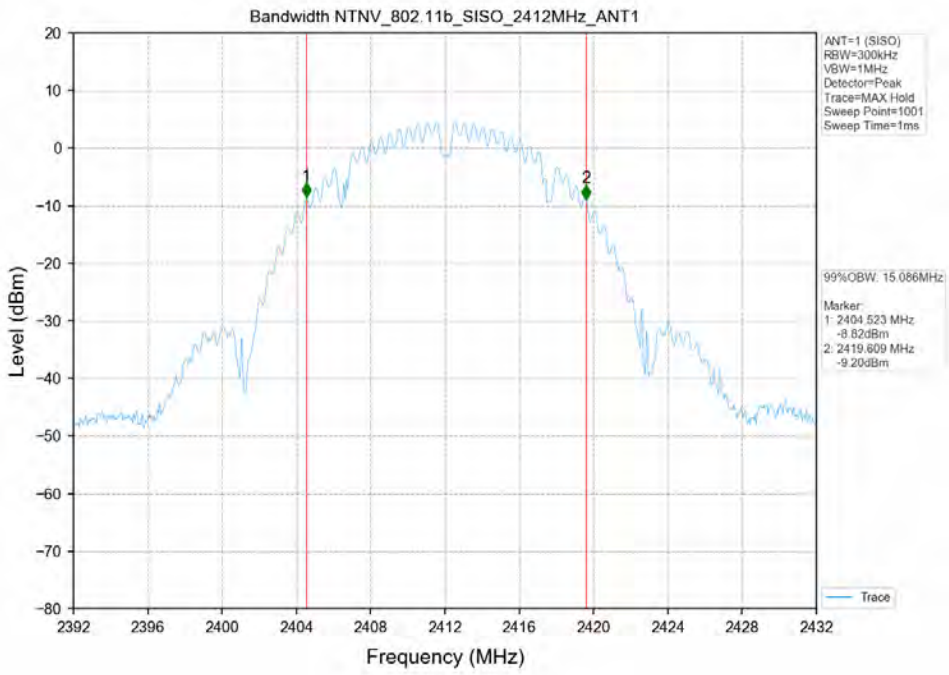

Bandwidth NTNV_802.11n(HT40)_MIMO_2437MHz_ANT1
ANT=1 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=7.667ms
6dB: 35.826MHz
Marker:
1: 2419.124 MHz
-12.72dBm
2: 2454.950 MHz
-12.72dBm
3: 2448.280 MHz
-6.72dBm
Trace
Level (dBm)
Frequency (MHz)

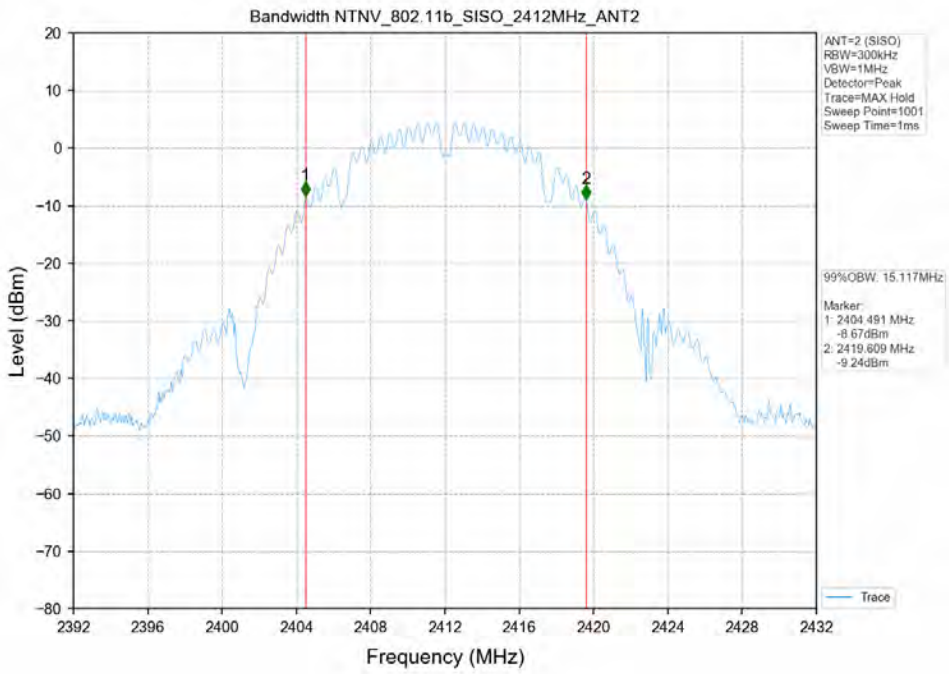

Bandwidth NTNV_802.11n(HT40)_MIMO_2437MHz_ANT2
ANT=2 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=7.667ms
6dB: 35.789MHz
Marker:
1: 2419.377 MHz
-12.33dBm
2: 2455.167 MHz
-12.33dBm
3: 2431.960 MHz
-6.33dBm
Trace
Level (dBm)
Frequency (MHz)

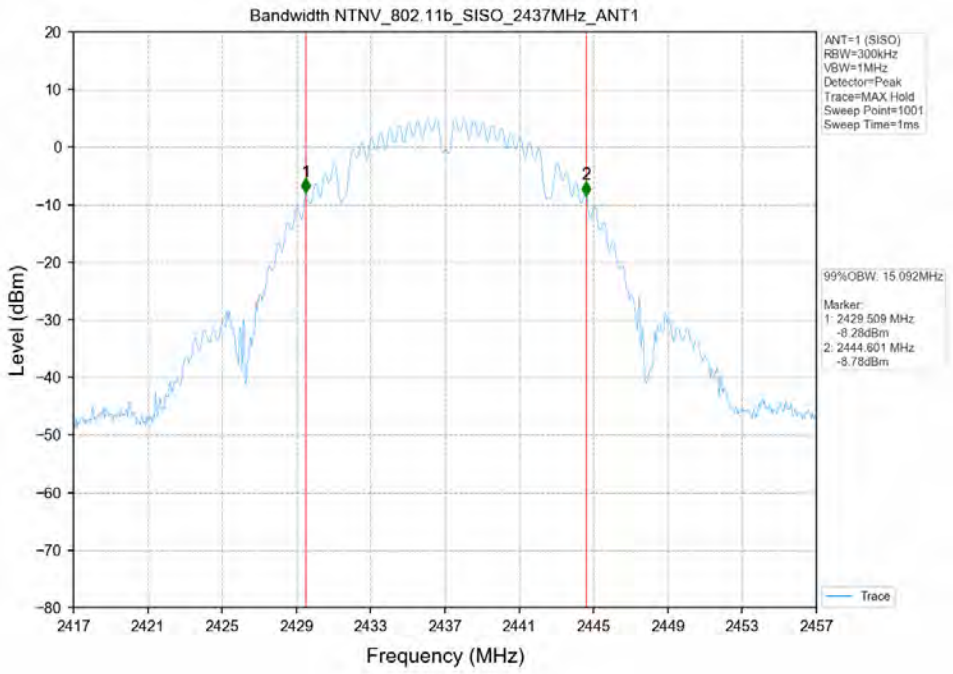

Bandwidth NTNV_802.11n(HT40)_MIMO_2452MHz_ANT1
ANT=1 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=7.667ms
6dB: 35.390MHz
Marker:
1: 2434.407 MHz
-12.40dBm
2: 2469.798 MHz
-12.40dBm
3: 2455.760 MHz
-6.40dBm
Trace
Level (dBm)
Frequency (MHz)

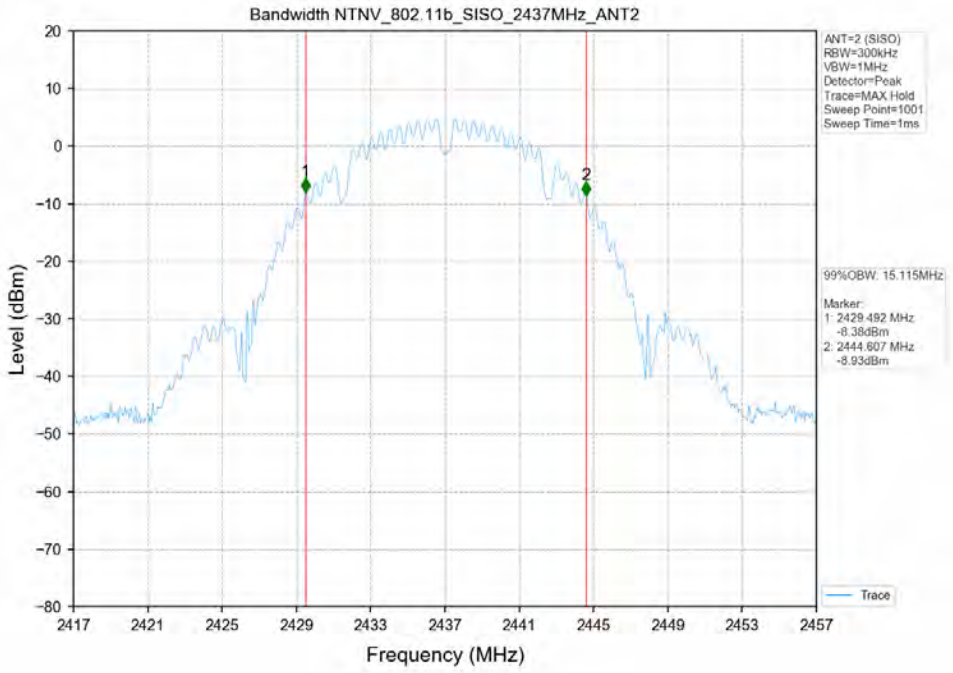

Bandwidth NTNV_802.11n(HT40)_MIMO_2452MHz_ANT2
ANT=2 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=7.667ms
6dB: 36.056MHz
Marker:
1: 2434.108 MHz
-12.23dBm
2: 2470.163 MHz
-12.23dBm
3: 2454.480 MHz
-6.23dBm
Trace
Level (dBm)
Frequency (MHz)

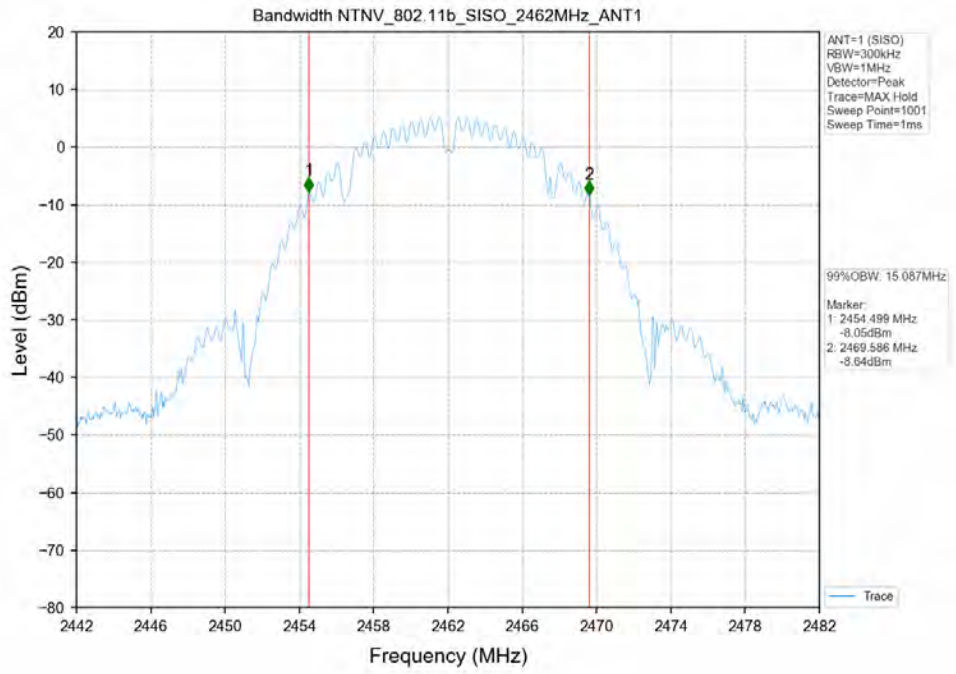
2.3 Test Graph - 99% Occupied Bandwidth

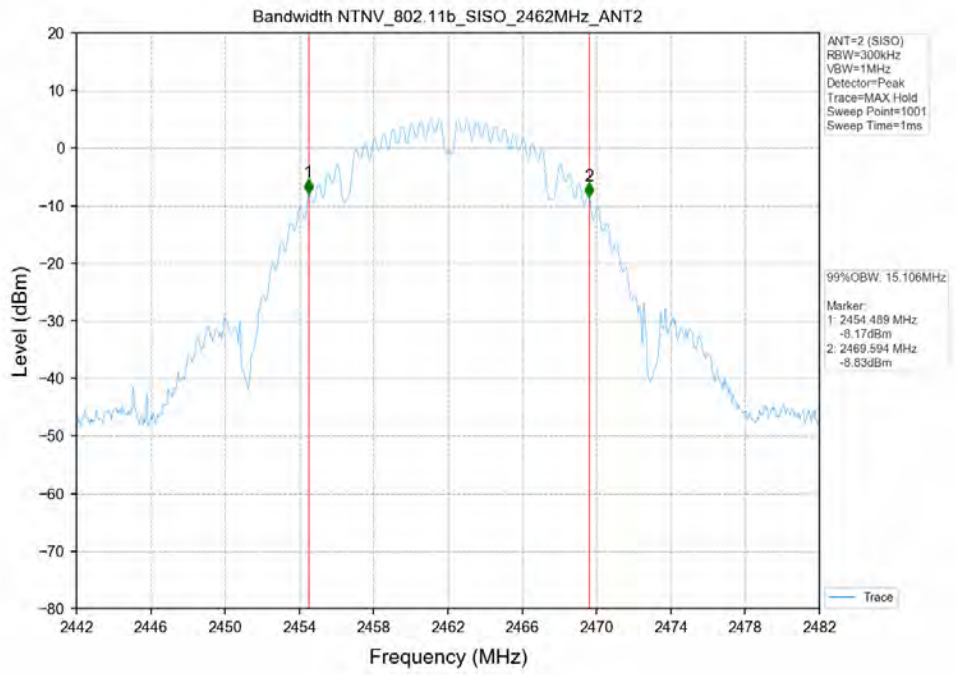


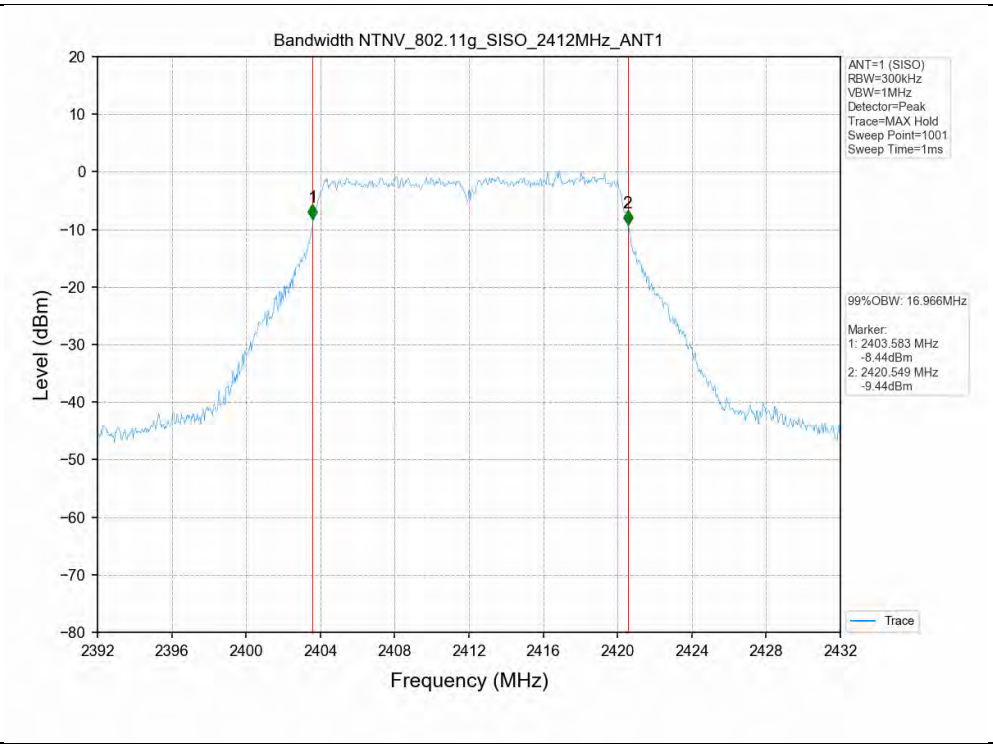


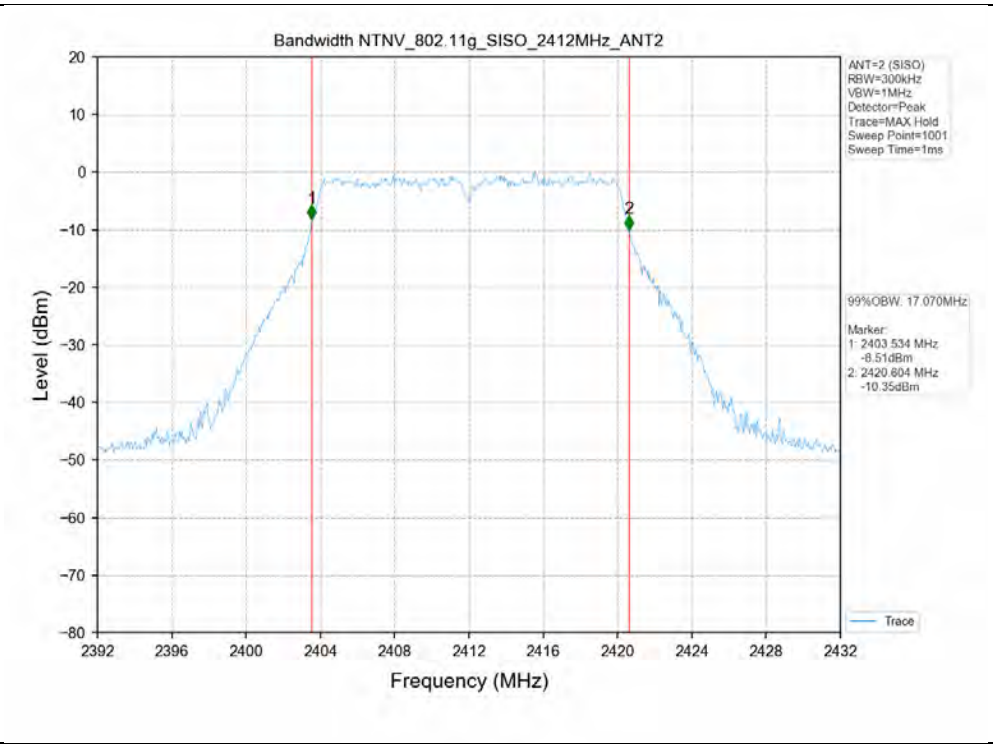

Bandwidth NTNV_802.11b_SISO_2437MHz_ANT1
ANT=1 (SISO)
RBW=300kHz
VBW=1MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 15.092MHz
Marker:
1: 2429.509 MHz
-8.28dBm
2: 2444.601 MHz
-8.78dBm
Trace
Level (dBm)
Frequency (MHz)

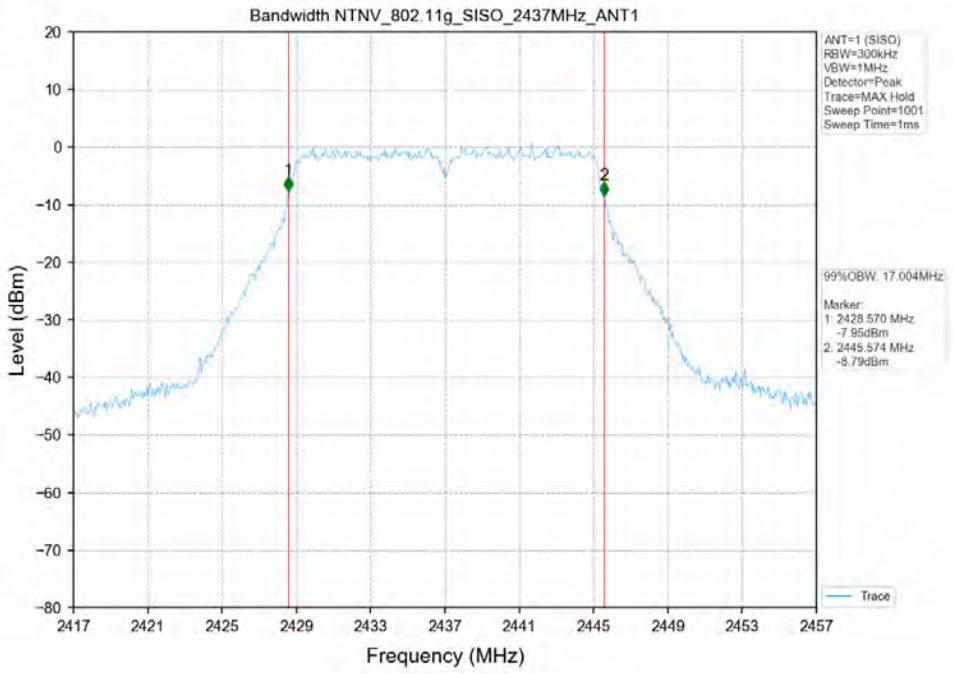

Bandwidth NTNV_802.11b_SISO_2437MHz_ANT2
ANT=2 (SISO)
RBW=300kHz
VBW=1MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 15.115MHz
Marker:
1: 2429.492 MHz
-8.38dBm
2: 2444.607 MHz
-8.93dBm
Trace
Level (dBm)
Frequency (MHz)

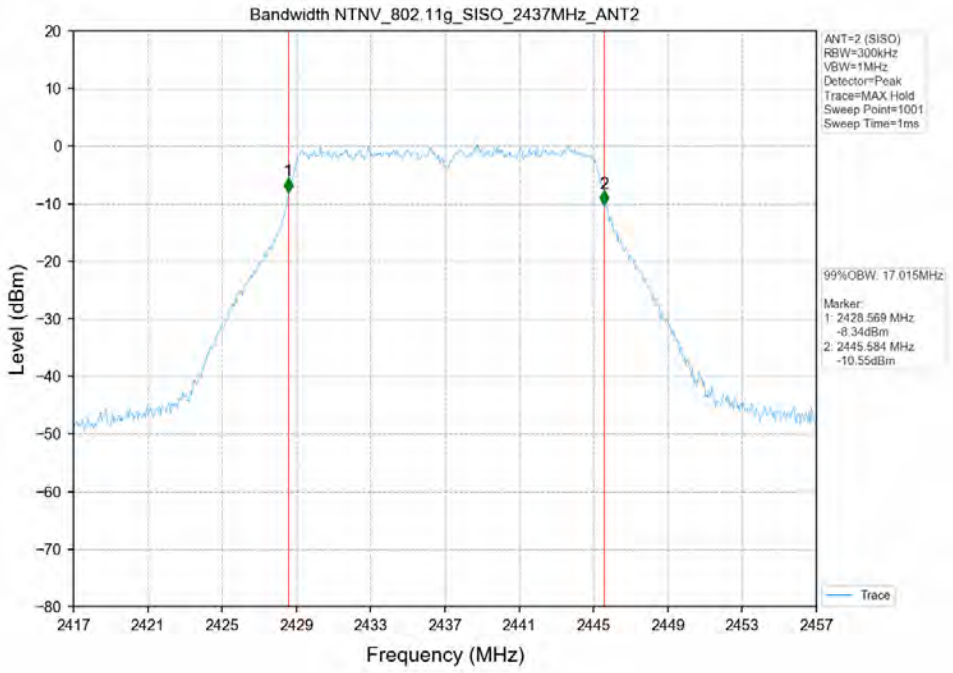

Bandwidth NTNV_802.11b_SISO_2462MHz_ANT1
ANT=1 (SISO)
RBW=300kHz
VBW=1MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 15.087MHz
Marker:
1: 2454.499 MHz
-8.05dBm
2: 2469.586 MHz
-8.64dBm
Trace
Level (dBm)
Frequency (MHz)

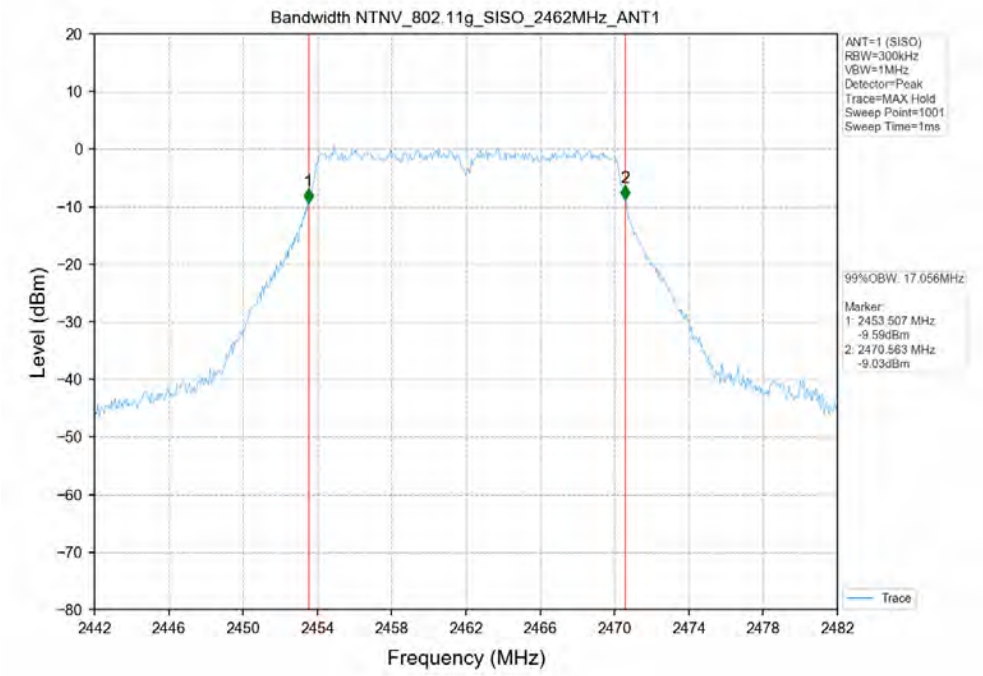

Bandwidth NTNV_802.11b_SISO_2462MHz_ANT2
ANT=2 (SISO)
RBW=300kHz
VBW=1MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 15.106MHz
Marker:
1: 2454.489 MHz
-8.17dBm
2: 2469.594 MHz
-8.83dBm
Trace
Level (dBm)
Frequency (MHz)

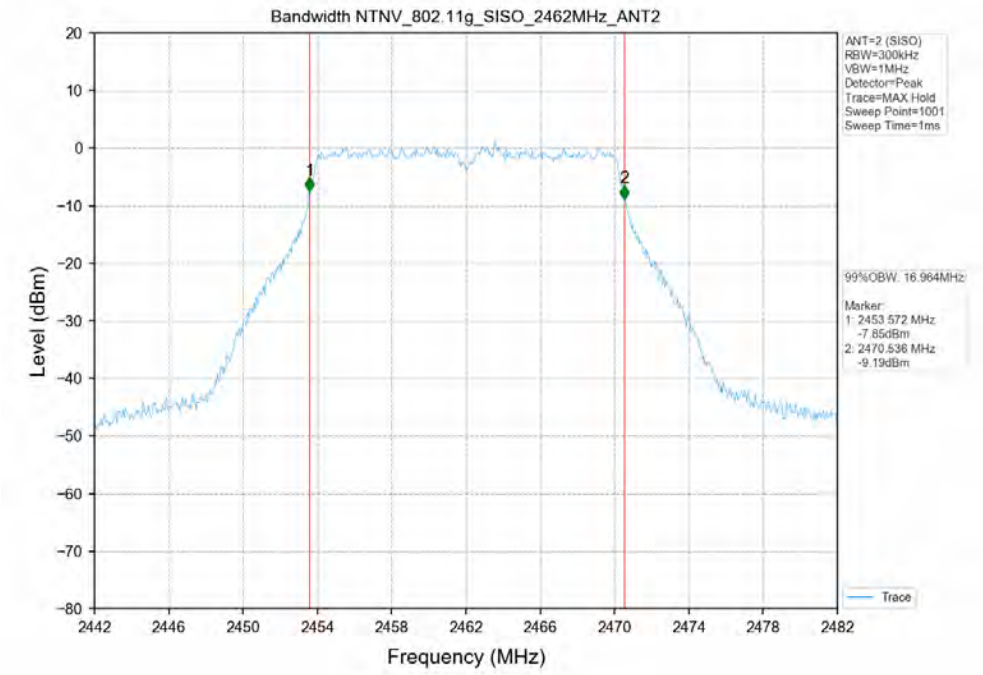

Bandwidth NTNV_802.11g_SISO_2412MHz_ANT1
ANT=1 (SISO)
RBW=300kHz
VBW=1MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 16.966MHz
Marker:
1: 2403.583 MHz
-8.44dBm
2: 2420.549 MHz
-9.44dBm
Trace
Level (dBm)
Frequency (MHz)

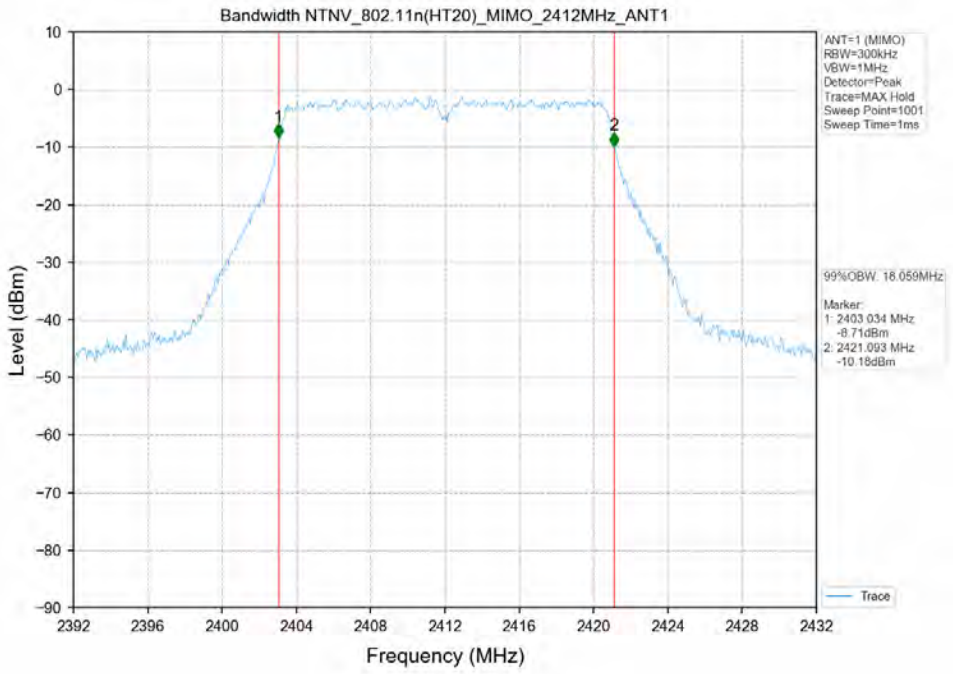

Bandwidth NTNV_802.11g_SISO_2412MHz_ANT2
ANT=2 (SISO)
RBW=300kHz
VBW=1MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 17.070MHz
Marker:
1: 2403.534 MHz
-8.51dBm
2: 2420.604 MHz
-10.35dBm
Trace
Level (dBm)
Frequency (MHz)

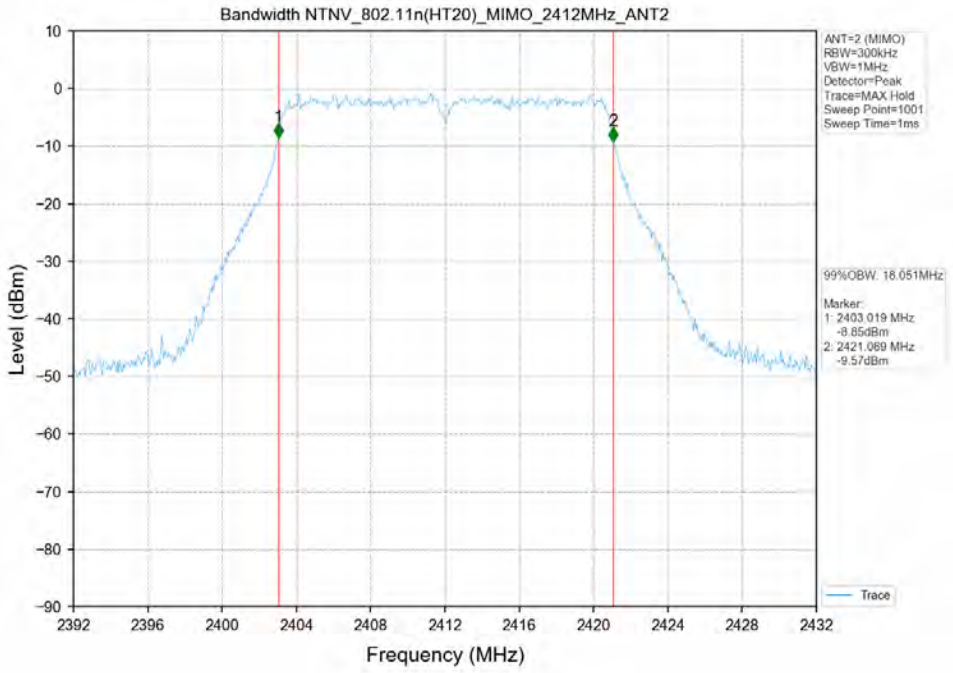

Bandwidth NTNV_802.11g_SISO_2437MHz_ANT1
ANT=1 (SISO)
RBW=300kHz
VBW=1MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 17.004MHz
Marker:
1: 2428.570 MHz
-7.95dBm
2: 2445.574 MHz
-8.79dBm
Trace
Level (dBm)
Frequency (MHz)

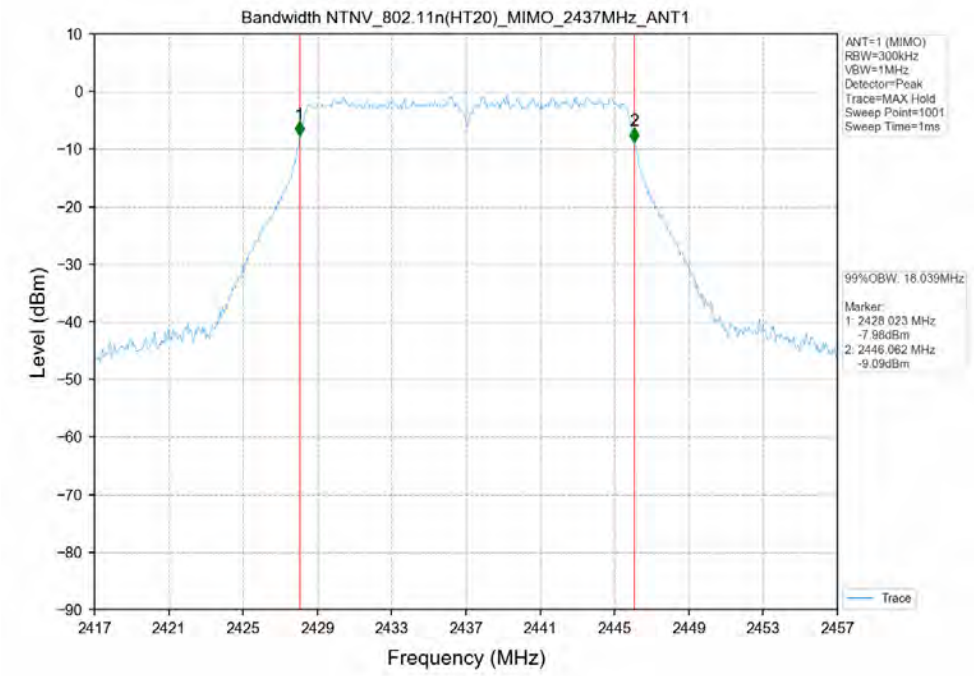

Bandwidth NTNV_802.11g_SISO_2437MHz_ANT2
ANT=2 (SISO)
RBW=300kHz
VBW=1MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 17.015MHz
Marker:
1: 2428.569 MHz
-8.34dBm
2: 2445.584 MHz
-10.55dBm
Trace
Level (dBm)
Frequency (MHz)

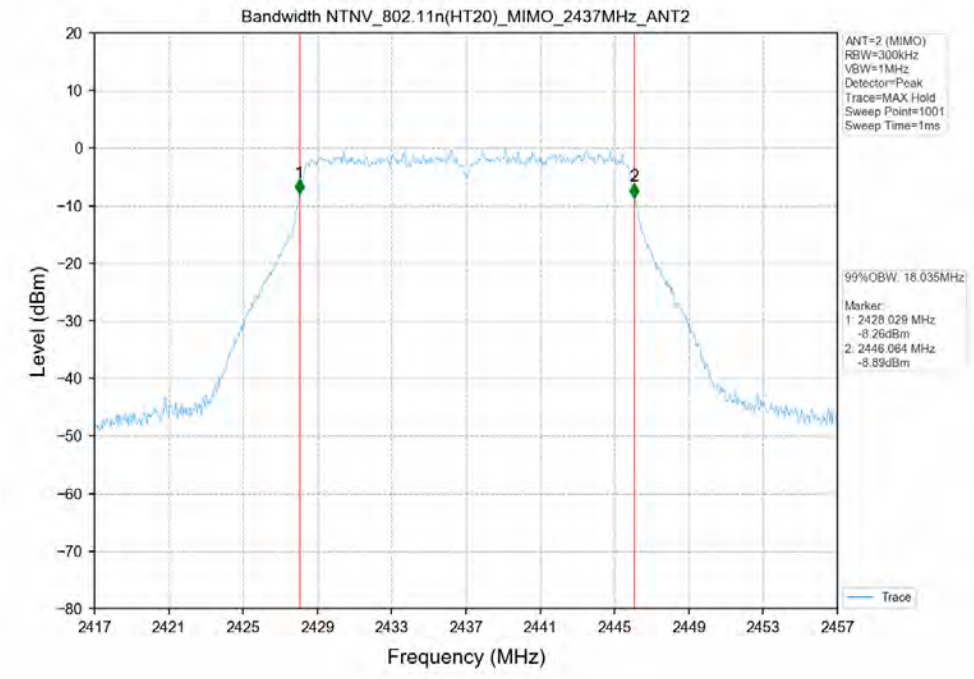

Bandwidth NTNV_802.11g_SISO_2462MHz_ANT1
ANT=1 (SISO)
RBW=300kHz
VBW=1MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 17.056MHz
Marker:
1: 2453.507 MHz
-9.59dBm
2: 2470.563 MHz
-9.03dBm
Trace
Level (dBm)
Frequency (MHz)

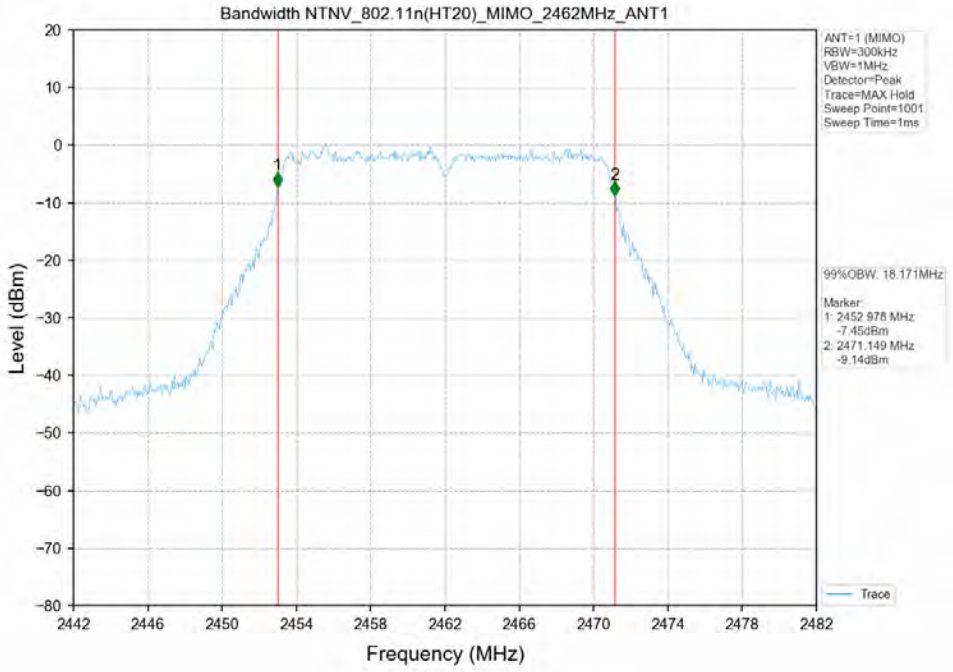

Bandwidth NTNV_802.11g_SISO_2462MHz_ANT2
ANT=2 (SISO)
RBW=300kHz
VBW=1MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 16.964MHz
Marker:
1: 2453.572 MHz
-7.85dBm
2: 2470.536 MHz
-9.19dBm
Trace
Level (dBm)
Frequency (MHz)

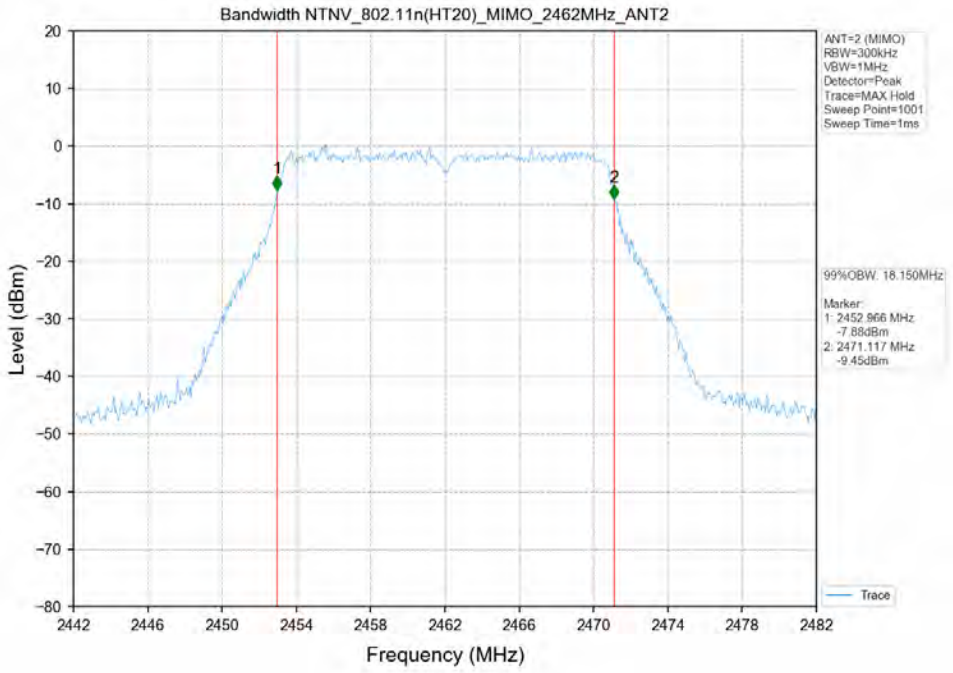

Bandwidth NTNV_802.11n(HT20)_MIMO_2412MHz_ANT1
ANT=1 (MIMO)
RBW=300kHz
VBW=1MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 18.059MHz
Marker:
1: 2403.034 MHz
-8.71dBm
2: 2421.093 MHz
-10.18dBm
Trace
Level (dBm)
Frequency (MHz)

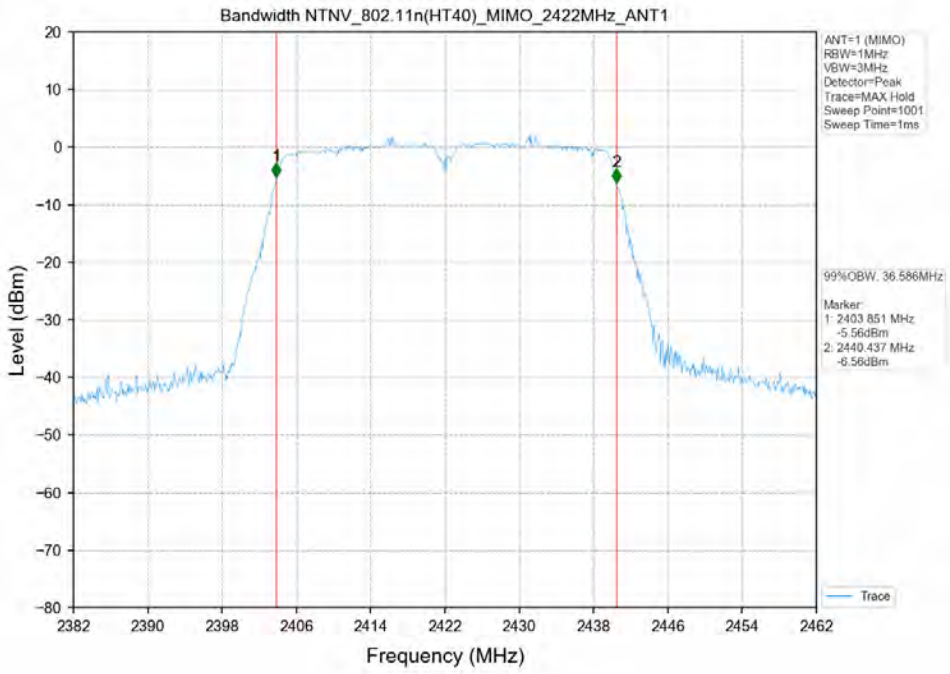

Bandwidth NTNV_802.11n(HT20)_MIMO_2412MHz_ANT2
ANT=2 (MIMO)
RBW=300kHz
VBW=1MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 18.051MHz
Marker:
1: 2403.019 MHz
-8.85dBm
2: 2421.069 MHz
-9.57dBm
Trace
Level (dBm)
Frequency (MHz)

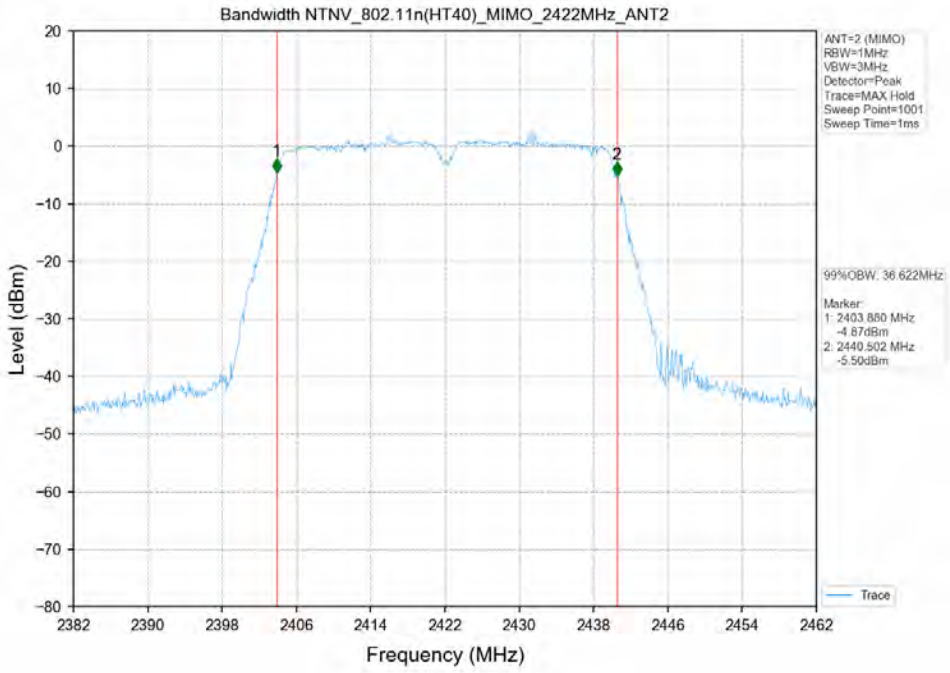

Bandwidth NTNV_802.11n(HT20)_MIMO_2437MHz_ANT1
ANT=1 (MIMO)
RBW=300kHz
VBW=1MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 18.039MHz
Marker:
1: 2428.023 MHz
-7.98dBm
2: 2446.062 MHz
-9.09dBm
Trace
Level (dBm)
Frequency (MHz)

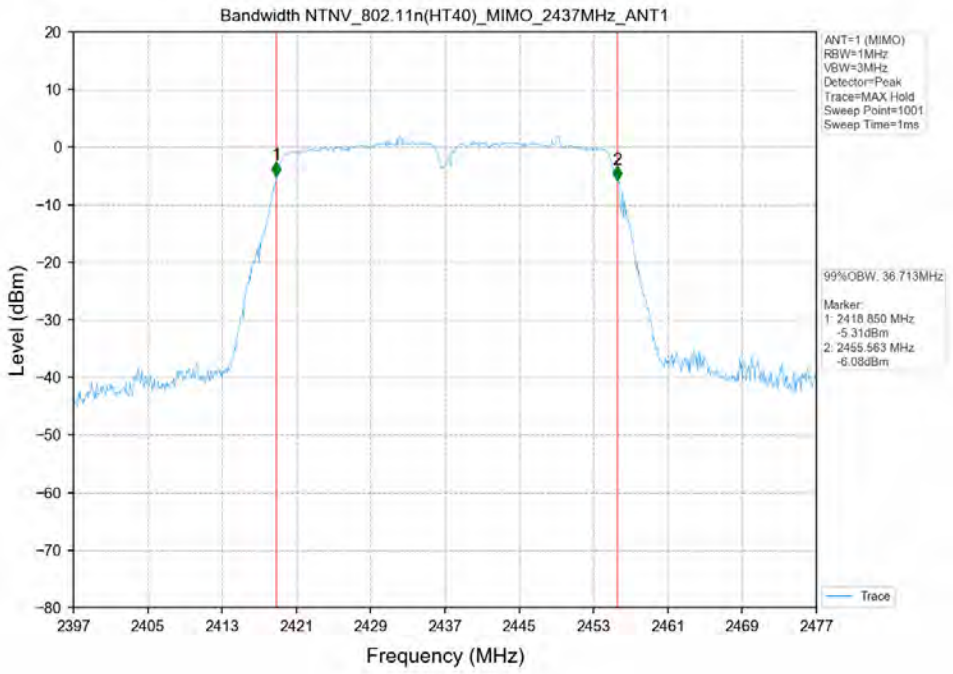

Bandwidth NTNV_802.11n(HT20)_MIMO_2437MHz_ANT2
ANT=2 (MIMO)
RBW=300kHz
VBW=1MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW: 18.035MHz
Marker:
1: 2428.029 MHz
-8.26dBm
2: 2446.064 MHz
-8.89dBm
Trace
Level (dBm)
Frequency (MHz)

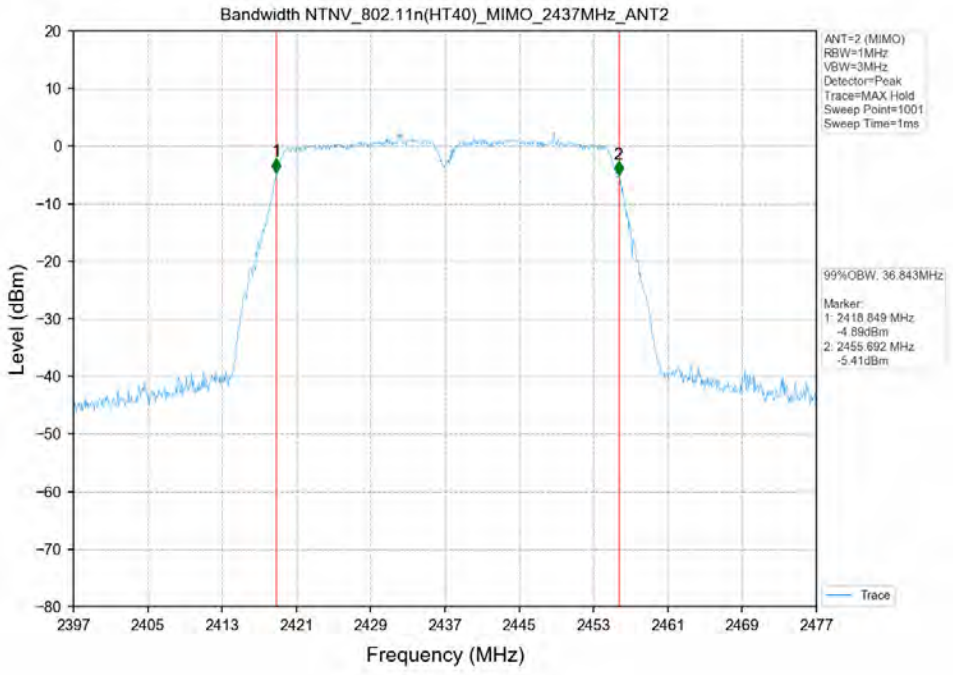

Bandwidth NTNV_802.11n(HT20)_MIMO_2462MHz_ANT1
ANT=1 (MIMO)
RBW=300kHz
VBW=1MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW. 18.171MHz
Marker:
1: 2452.978 MHz
-7.45dBm
2: 2471.149 MHz
-9.14dBm
Trace
Level (dBm)
Frequency (MHz)

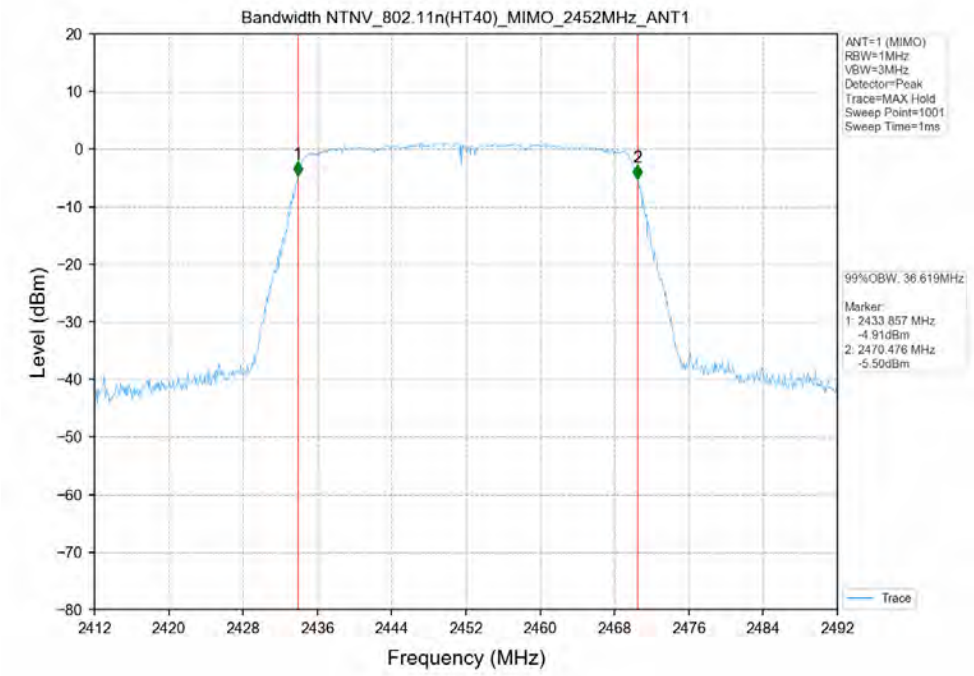

Bandwidth NTNV_802.11n(HT20)_MIMO_2462MHz_ANT2
ANT=2 (MIMO)
RBW=300kHz
VBW=1MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW. 18.150MHz
Marker:
1: 2452.966 MHz
-7.88dBm
2: 2471.117 MHz
-9.45dBm
Trace
Level (dBm)
Frequency (MHz)

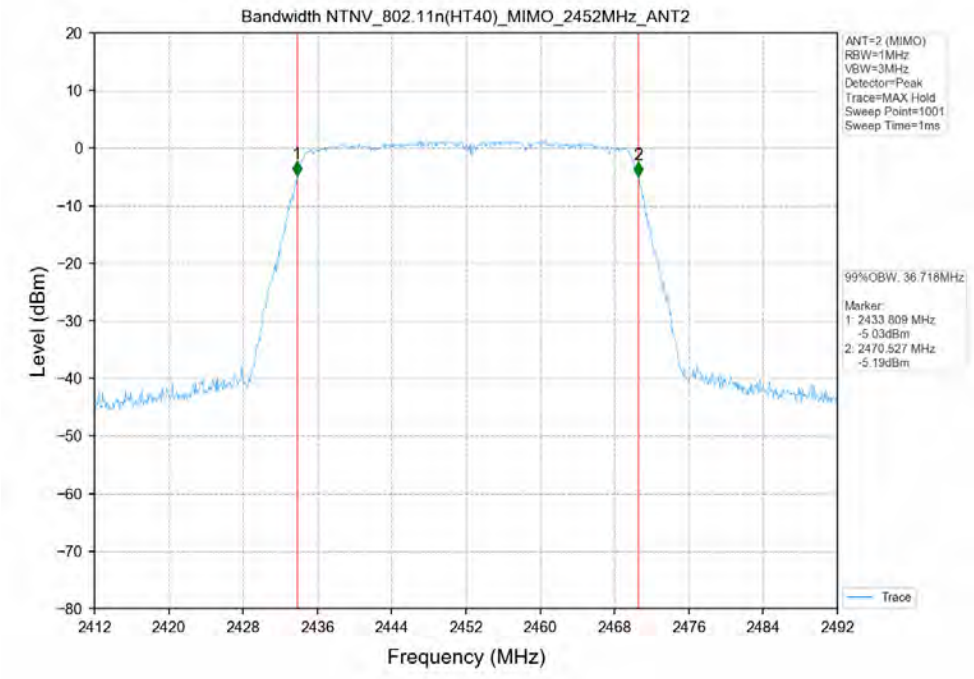

Bandwidth NTNV_802.11n(HT40)_MIMO_2422MHz_ANT1
ANT=1 (MIMO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW. 36.586MHz
Marker
1: 2403.851 MHz
-5.56dBm
2: 2440.437 MHz
-6.56dBm
Trace
Level (dBm)
Frequency (MHz)


Bandwidth NTNV_802.11n(HT40)_MIMO_2422MHz_ANT2
ANT=2 (MIMO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW. 36.622MHz
Marker
1: 2403.880 MHz
-4.87dBm
2: 2440.502 MHz
-5.50dBm
Trace
Level (dBm)
Frequency (MHz)


Bandwidth NTNV_802.11n(HT40)_MIMO_2437MHz_ANT1
ANT=1 (MIMO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW. 36.713MHz
Marker:
1: 2418.850 MHz
-5.31dBm
2: 2455.563 MHz
-6.08dBm
Trace
Level (dBm)
Frequency (MHz)


Bandwidth NTNV_802.11n(HT40)_MIMO_2437MHz_ANT2
ANT=2 (MIMO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW. 36.843MHz
Marker:
1: 2418.849 MHz
-4.89dBm
2: 2455.692 MHz
-5.41dBm
Trace
Level (dBm)
Frequency (MHz)


Bandwidth NTNV_802.11n(HT40)_MIMO_2452MHz_ANT1
ANT=1 (MIMO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW. 36.619MHz
Marker:
1: 2433.857 MHz
-4.91dBm
2: 2470.476 MHz
-5.50dBm
Trace
Level (dBm)
Frequency (MHz)

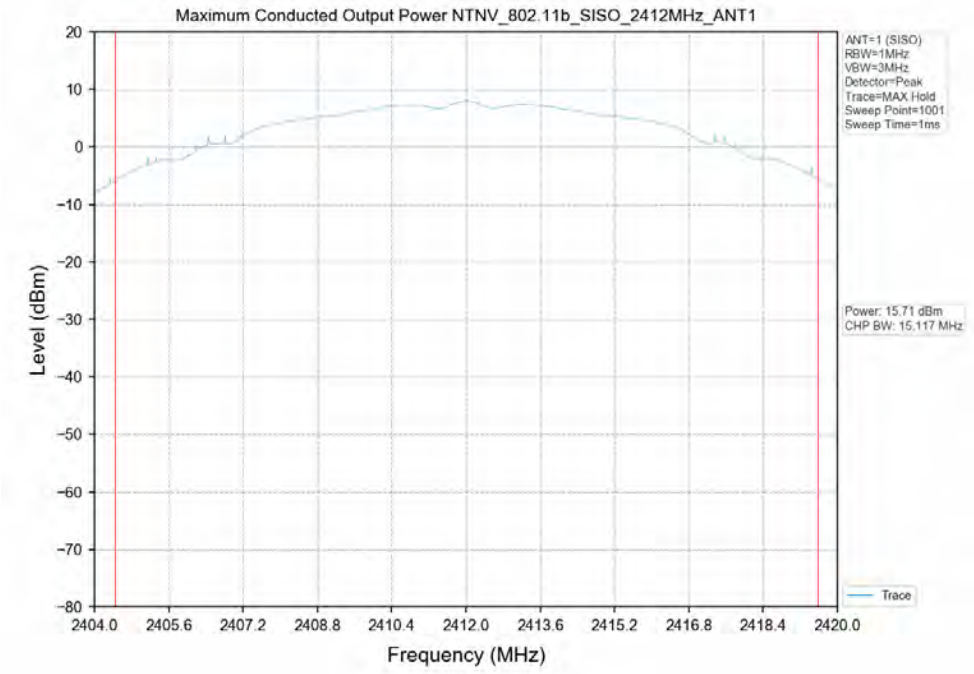

Bandwidth NTNV_802.11n(HT40)_MIMO_2452MHz_ANT2
ANT=2 (MIMO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%OBW. 36.718MHz
Marker:
1: 2433.809 MHz
-5.03dBm
2: 2470.527 MHz
-5.19dBm
Trace
Level (dBm)
Frequency (MHz)

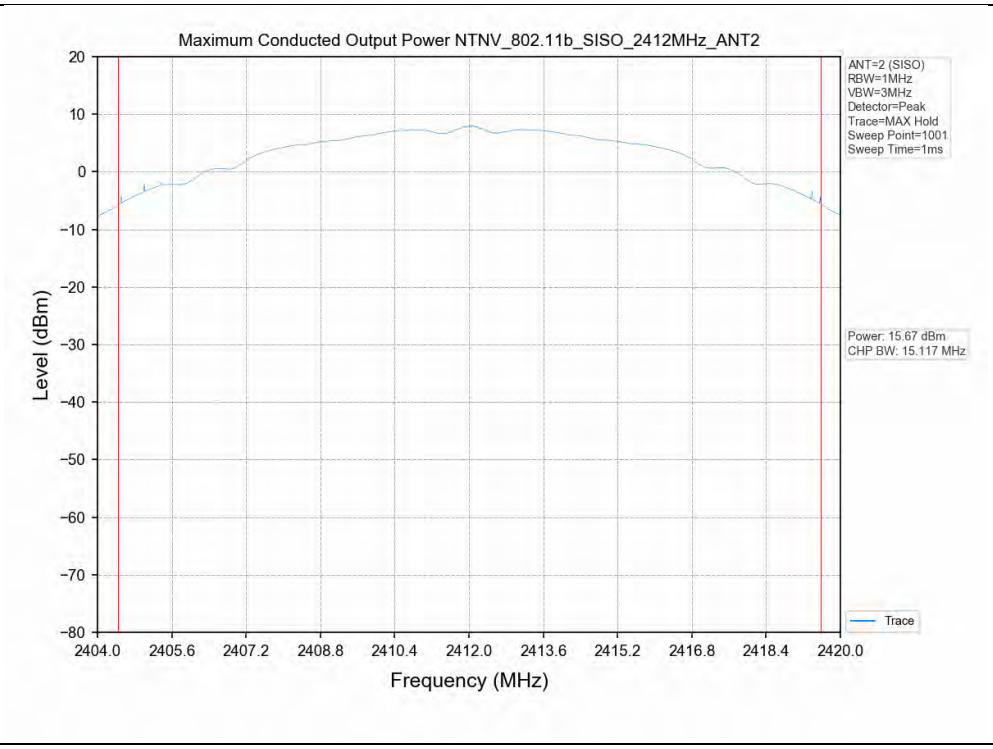
3. Maximum Conducted Output Power

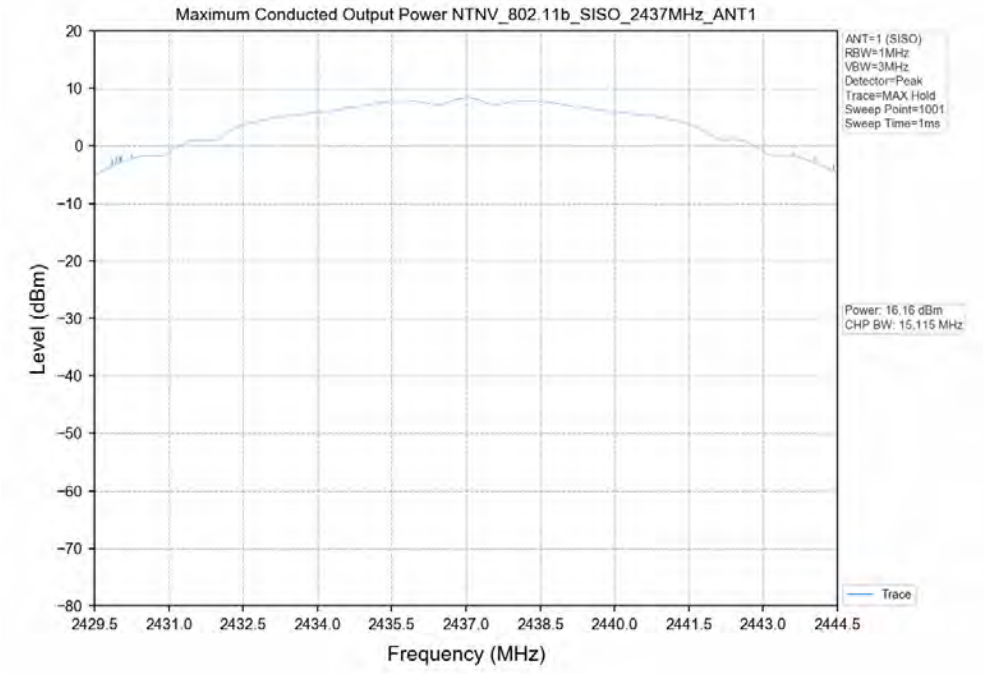
3.1 Test Result

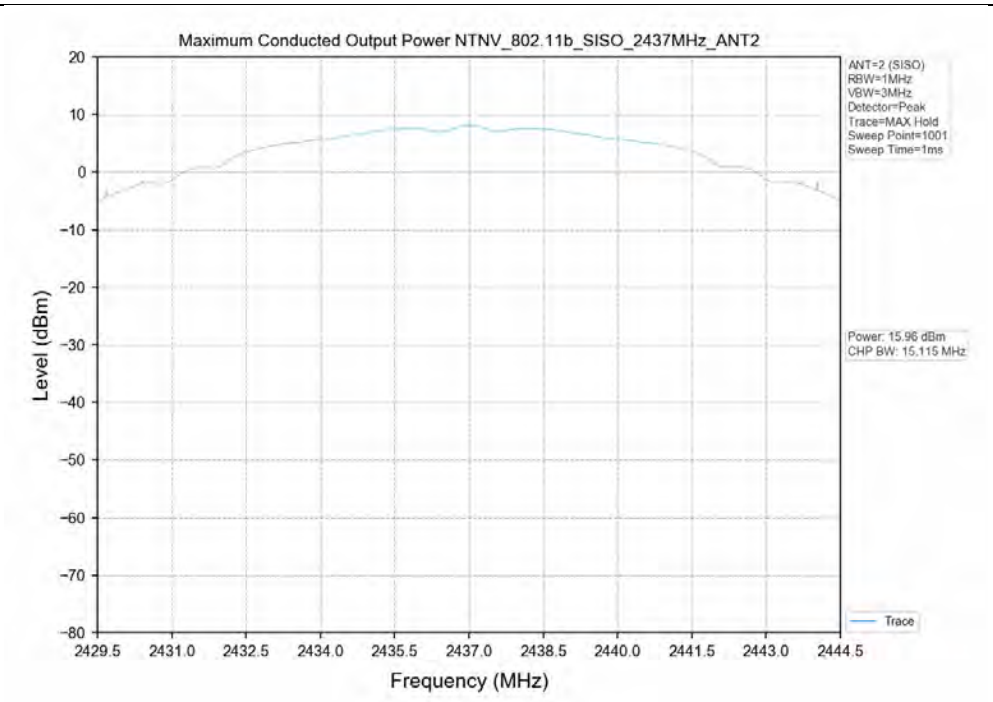
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	15.71	15.67	/	30	PASS
	2437	SISO	16.16	15.96	/	30	PASS
	2462	SISO	16.34	16.21	/	30	PASS
802.11g	2412	SISO	16.10	16.26	/	30	PASS
	2437	SISO	16.60	16.65	/	30	PASS
	2462	SISO	16.89	16.83	/	30	PASS
802.11n(HT20)	2412	MIMO	15.61	16.06	18.85	30	PASS
	2437	MIMO	15.95	16.26	19.12	30	PASS
	2462	MIMO	16.25	16.50	19.39	30	PASS
802.11n(HT40)	2422	MIMO	15.00	15.22	18.12	30	PASS
	2437	MIMO	15.25	15.38	18.33	30	PASS
	2452	MIMO	15.36	15.54	18.46	30	PASS

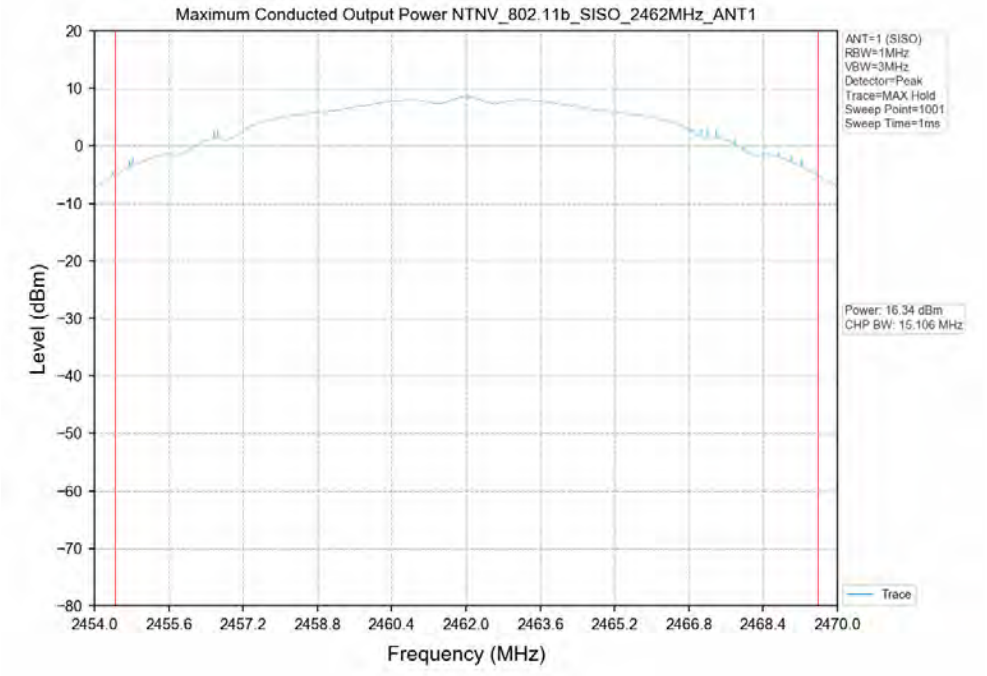
3.2 Test Graph

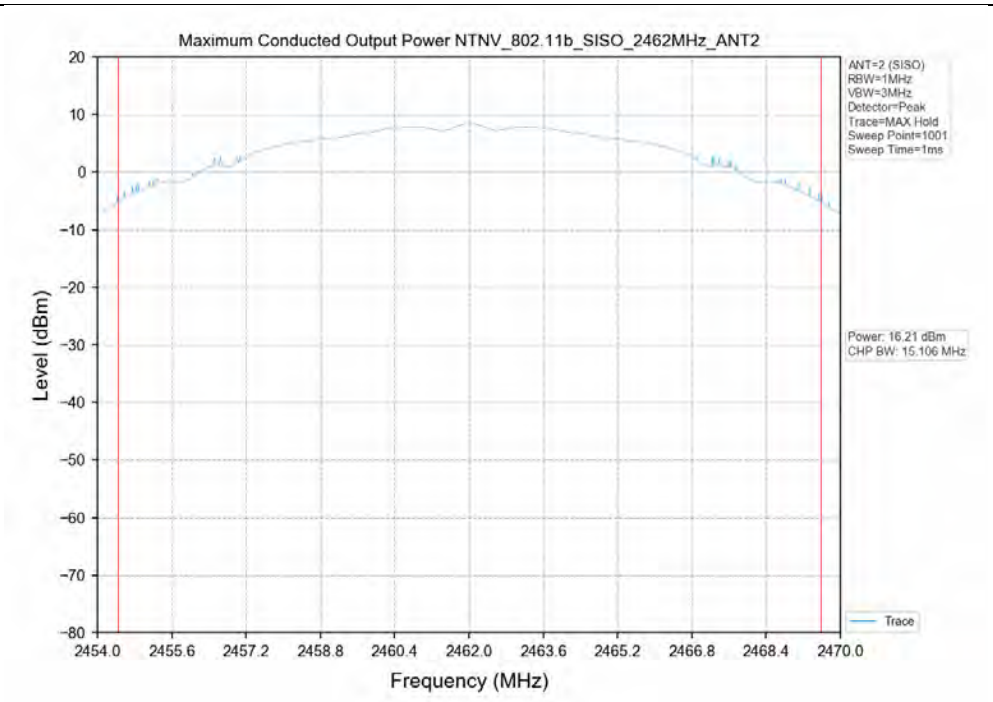


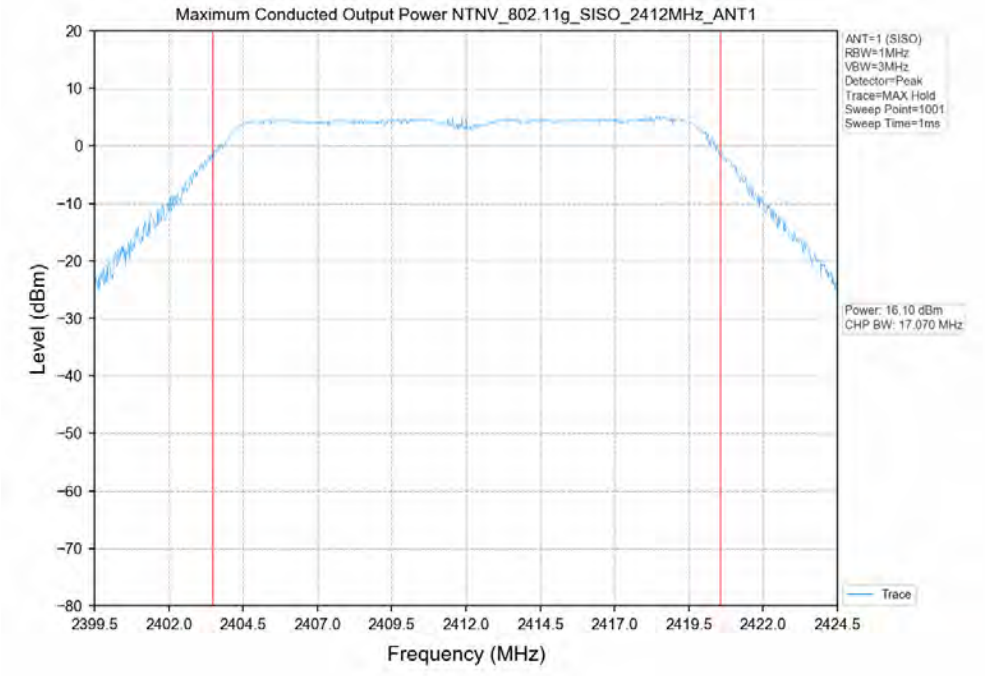

Maximum Conducted Output Power NTNV_802.11b_SISO_2412MHz_ANT2
ANT=2 (SISO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 15.67 dBm
CHP BW: 15.117 MHz
Trace
Level (dBm)
20
10
0
−10
−20
−30
−40
−50
−60
−70
−80
2404.0
2405.6
2407.2
2408.8
2410.4
2412.0
2413.6
2415.2
2416.8
2418.4
2420.0
Frequency (MHz)

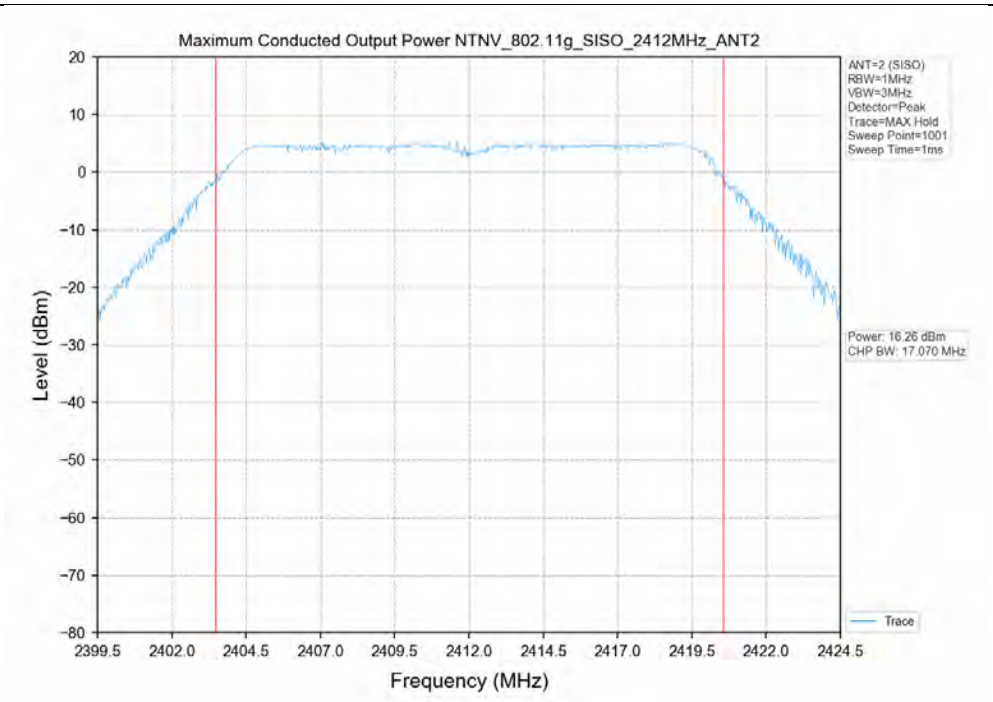

Maximum Conducted Output Power NTNV_802.11b_SISO_2437MHz_ANT1
ANT=1 (SISO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 16.16 dBm
CHP BW: 15.115 MHz
Trace
Level (dBm)
20
10
0
−10
−20
−30
−40
−50
−60
−70
−80
2429.5
2431.0
2432.5
2434.0
2435.5
2437.0
2438.5
2440.0
2441.5
2443.0
2444.5
Frequency (MHz)

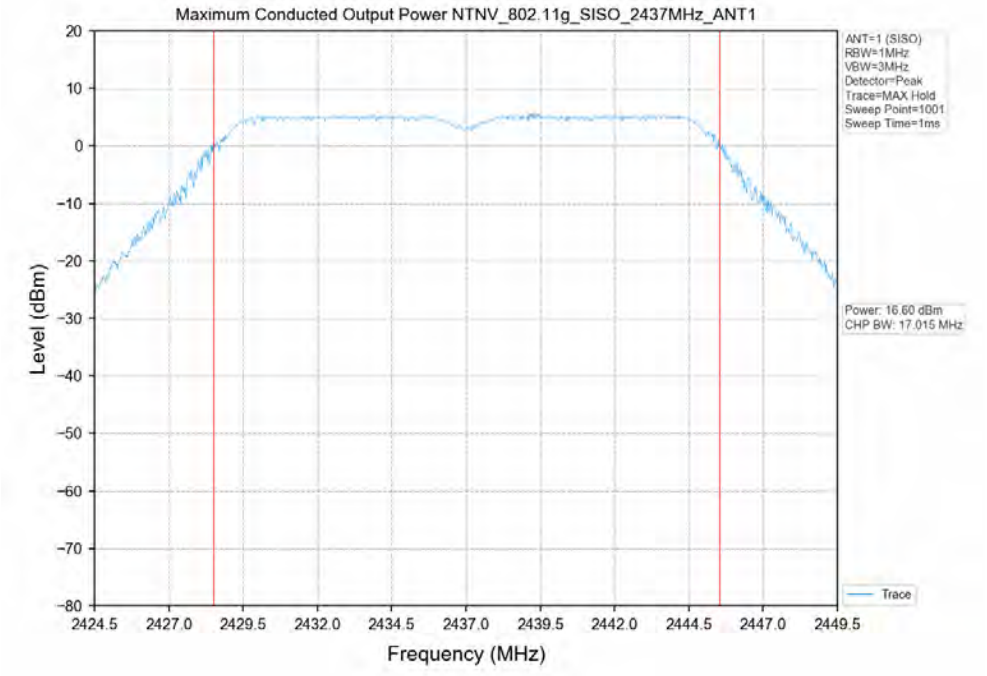

Maximum Conducted Output Power NTNV_802.11b_SISO_2437MHz_ANT2
ANT=2 (SISO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 15.96 dBm
CHP BW: 15.115 MHz
Trace
Level (dBm)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2429.5
2431.0
2432.5
2434.0
2435.5
2437.0
2438.5
2440.0
2441.5
2443.0
2444.5
Frequency (MHz)

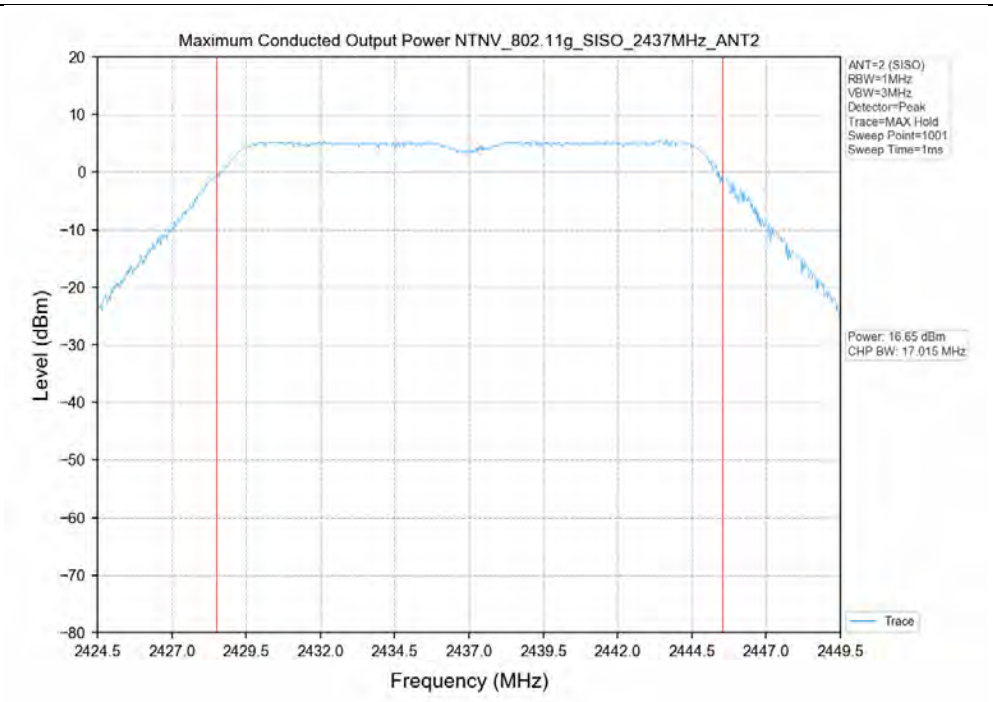

Maximum Conducted Output Power NTNV_802.11b_SISO_2462MHz_ANT1
ANT=1 (SISO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 16.34 dBm
CHP BW: 15.106 MHz
Trace
Level (dBm)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2454.0
2455.6
2457.2
2458.8
2460.4
2462.0
2463.6
2465.2
2466.8
2468.4
2470.0
Frequency (MHz)

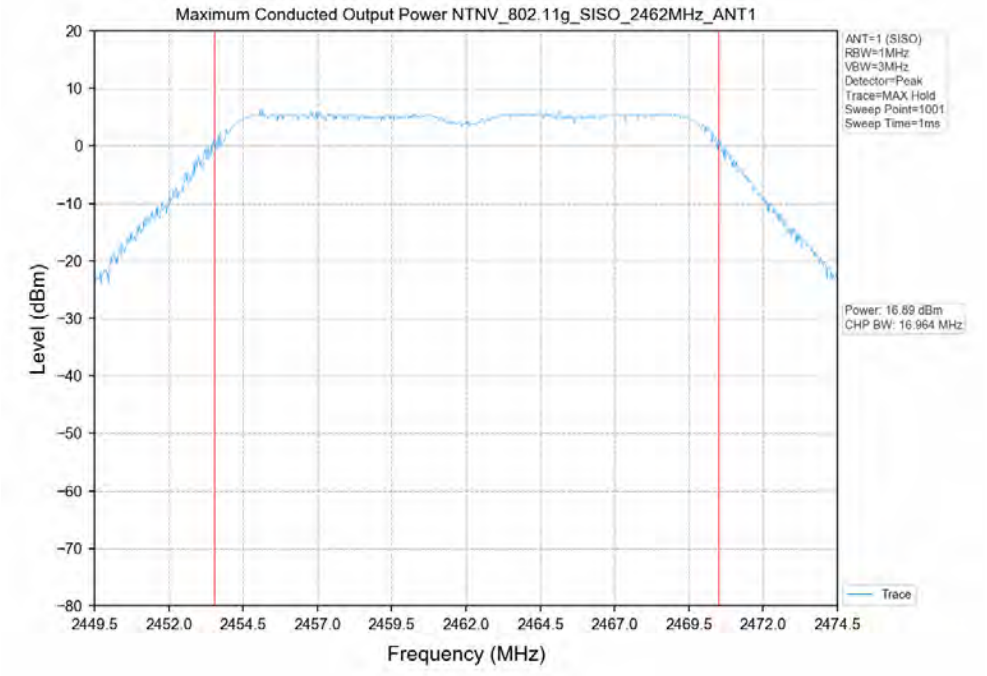

Maximum Conducted Output Power NTNV_802.11b_SISO_2462MHz_ANT2
ANT=2 (SISO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 16.21 dBm
CHP BW: 15.106 MHz
Trace
Level (dBm)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2454.0
2455.6
2457.2
2458.8
2460.4
2462.0
2463.6
2465.2
2466.8
2468.4
2470.0
Frequency (MHz)

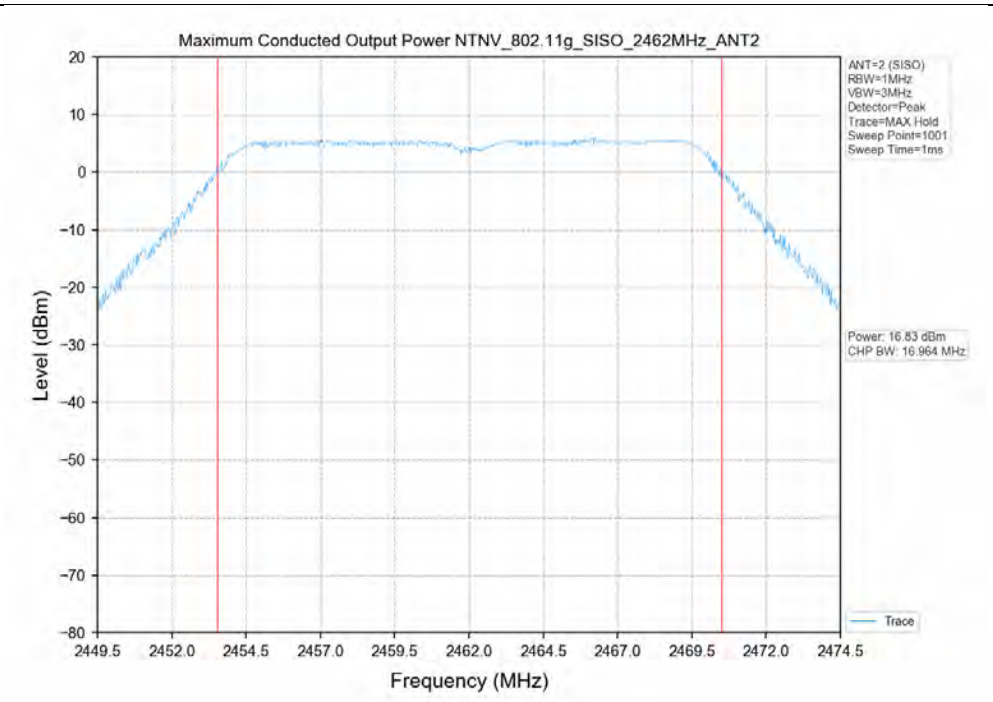

Maximum Conducted Output Power NTNV_802.11g_SISO_2412MHz_ANT1
ANT=1 (SISO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 16.10 dBm
CHP BW: 17.070 MHz
Trace
Level (dBm)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2399.5
2402.0
2404.5
2407.0
2409.5
2412.0
2414.5
2417.0
2419.5
2422.0
2424.5
Frequency (MHz)

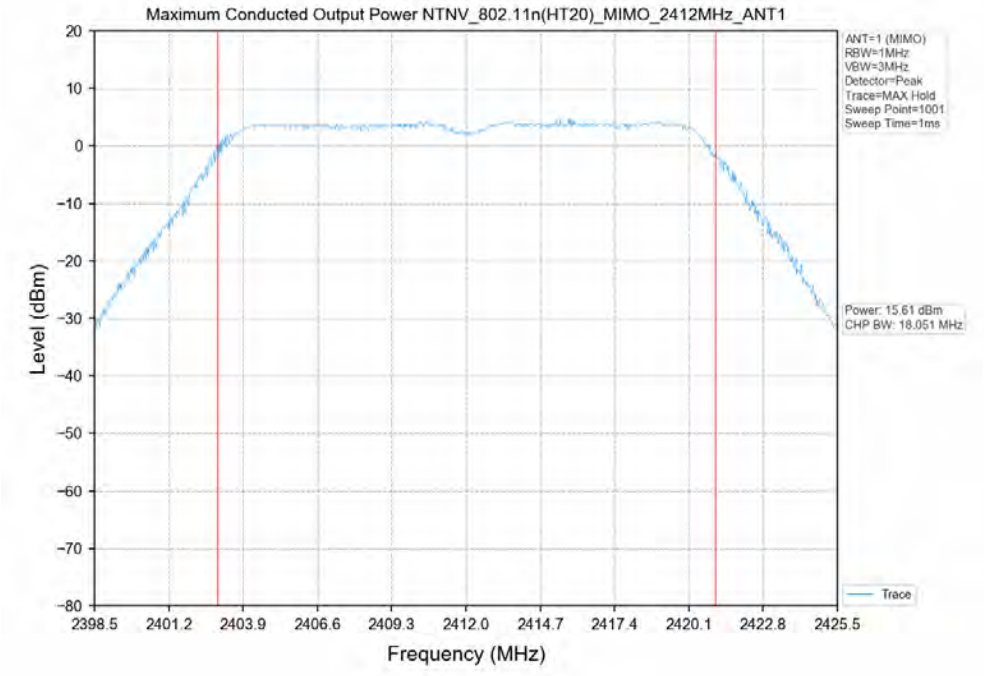

Maximum Conducted Output Power NTNV_802.11g_SISO_2412MHz_ANT2
ANT=2 (SISO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 16.26 dBm
CHP BW: 17.070 MHz
Trace
Level (dBm)
Frequency (MHz)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2399.5
2402.0
2404.5
2407.0
2409.5
2412.0
2414.5
2417.0
2419.5
2422.0
2424.5

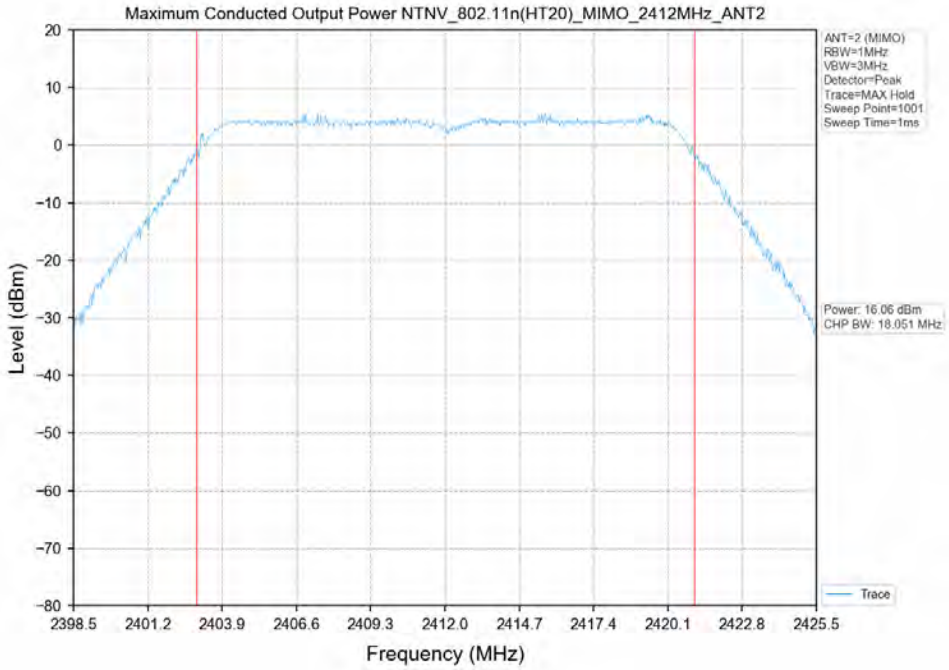

Maximum Conducted Output Power NTNV_802.11g_SISO_2437MHz_ANT1
ANT=1 (SISO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 16.60 dBm
CHP BW: 17.015 MHz
Trace
Level (dBm)
Frequency (MHz)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2424.5
2427.0
2429.5
2432.0
2434.5
2437.0
2439.5
2442.0
2444.5
2447.0
2449.5

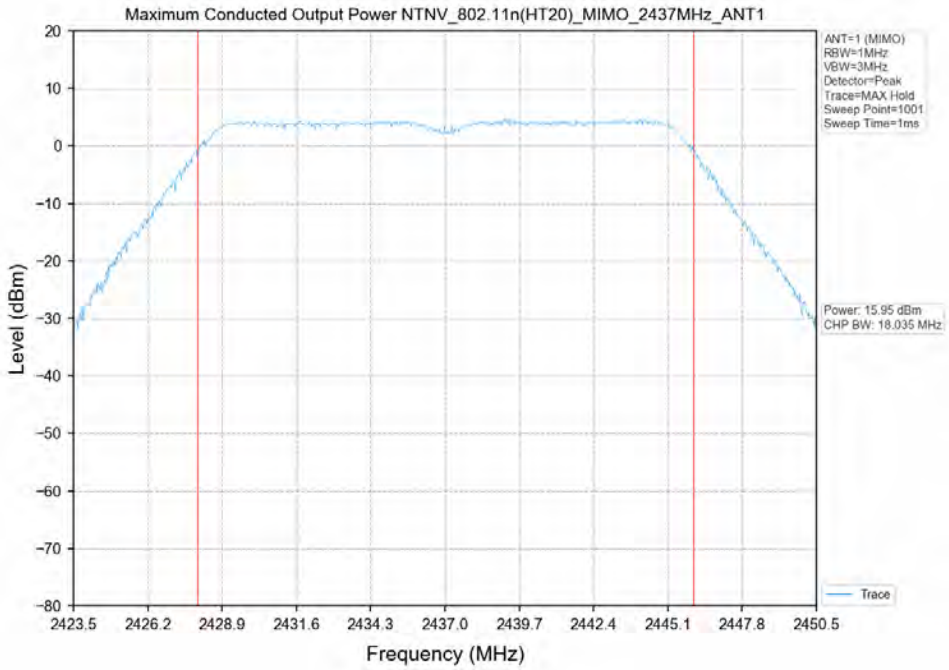

Maximum Conducted Output Power NTNV_802.11g_SISO_2437MHz_ANT2
ANT=2 (SISO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 16.65 dBm
CHP BW: 17.015 MHz
Trace
Level (dBm)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2424.5
2427.0
2429.5
2432.0
2434.5
2437.0
2439.5
2442.0
2444.5
2447.0
2449.5
Frequency (MHz)

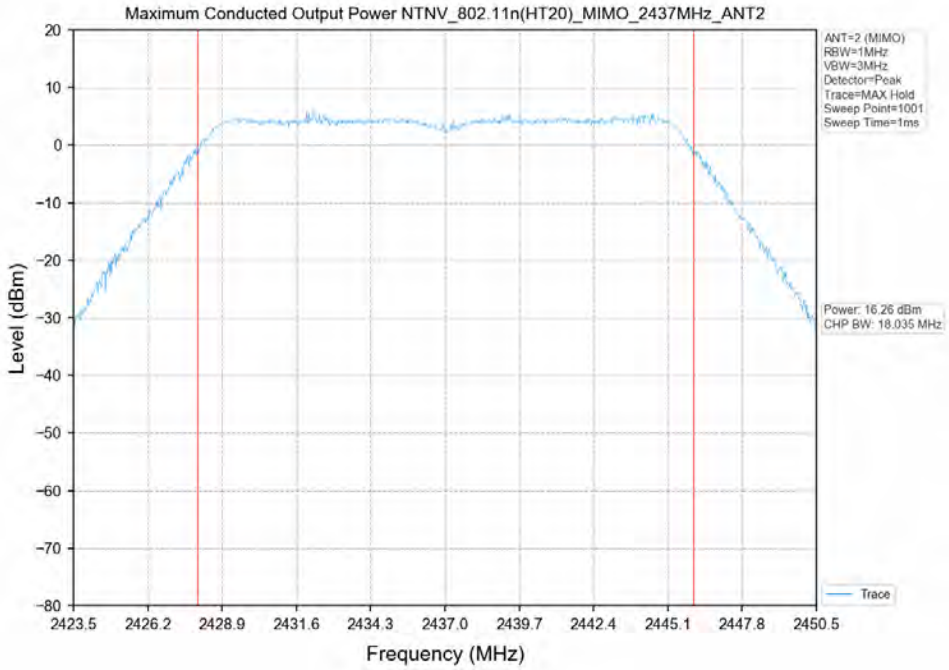

Maximum Conducted Output Power NTNV_802.11g_SISO_2462MHz_ANT1
ANT=1 (SISO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 16.89 dBm
CHP BW: 16.964 MHz
Trace
Level (dBm)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2449.5
2452.0
2454.5
2457.0
2459.5
2462.0
2464.5
2467.0
2469.5
2472.0
2474.5
Frequency (MHz)

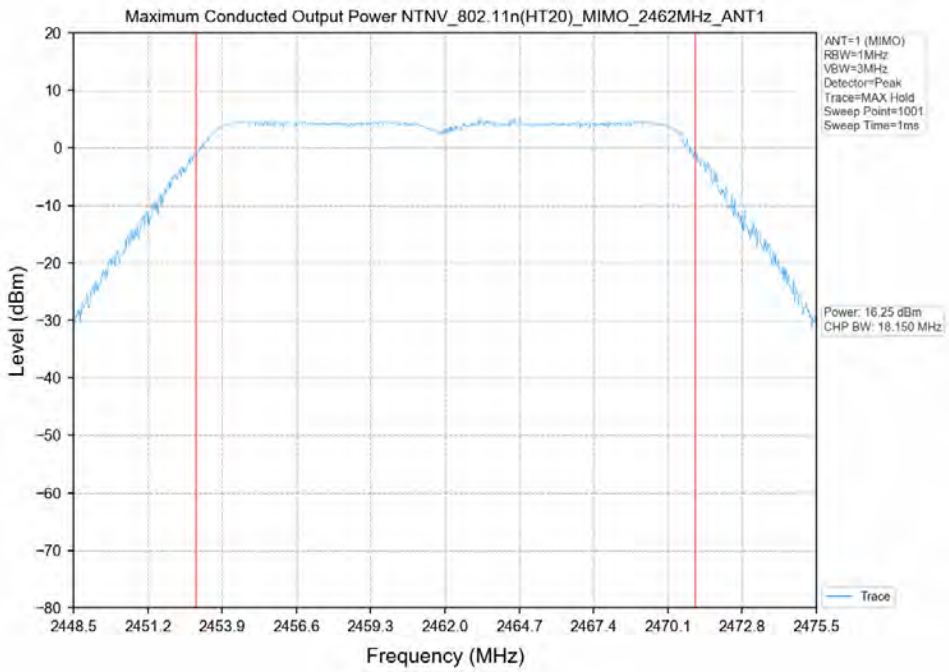

Maximum Conducted Output Power NTNV_802.11g_SISO_2462MHz_ANT2
ANT=2 (SISO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 16.83 dBm
CHP BW: 16.964 MHz
Trace
Level (dBm)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2449.5
2452.0
2454.5
2457.0
2459.5
2462.0
2464.5
2467.0
2469.5
2472.0
2474.5
Frequency (MHz)

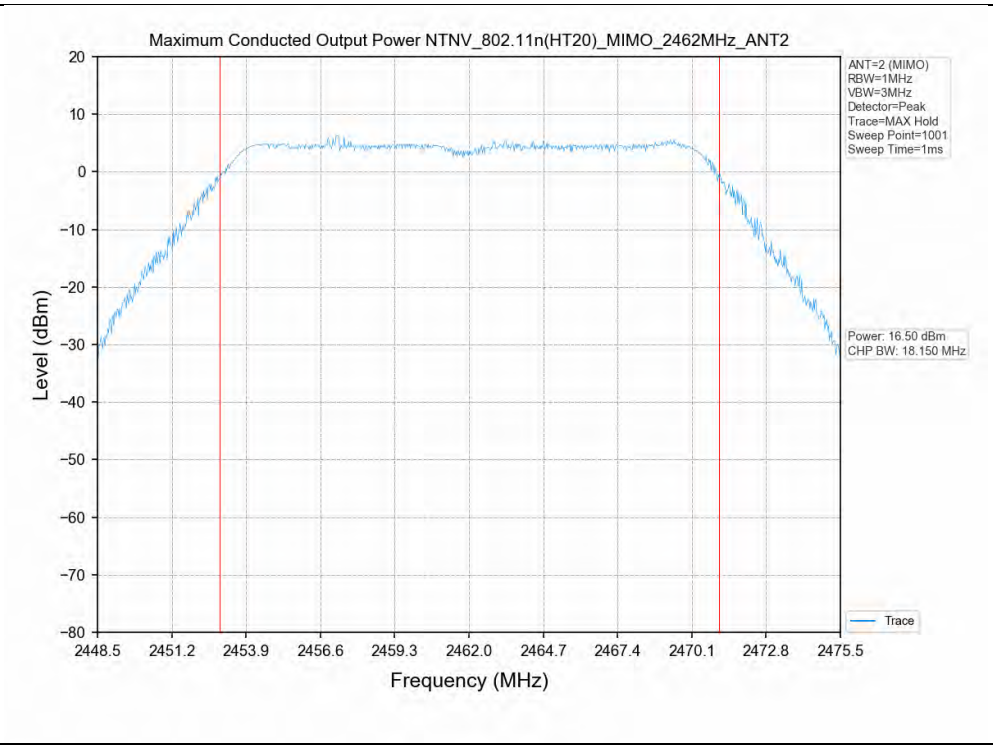

Maximum Conducted Output Power NTNV_802.11n(HT20)_MIMO_2412MHz_ANT1
ANT=1 (MIMO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 15.61 dBm
CHP BW: 18.051 MHz
Trace
Level (dBm)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2398.5
2401.2
2403.9
2406.6
2409.3
2412.0
2414.7
2417.4
2420.1
2422.8
2425.5
Frequency (MHz)

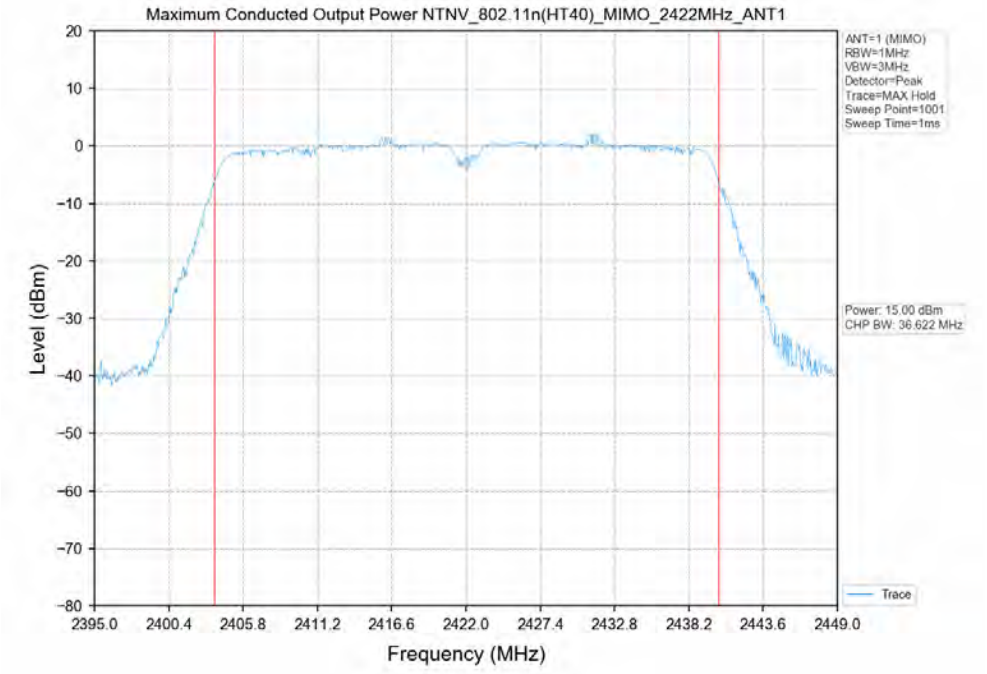

Maximum Conducted Output Power NTNV_802.11n(HT20)_MIMO_2412MHz_ANT2
ANT=2 (MIMO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 16.06 dBm
CHP BW: 18.051 MHz
Trace
Level (dBm)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2398.5
2401.2
2403.9
2406.6
2409.3
2412.0
2414.7
2417.4
2420.1
2422.8
2425.5
Frequency (MHz)

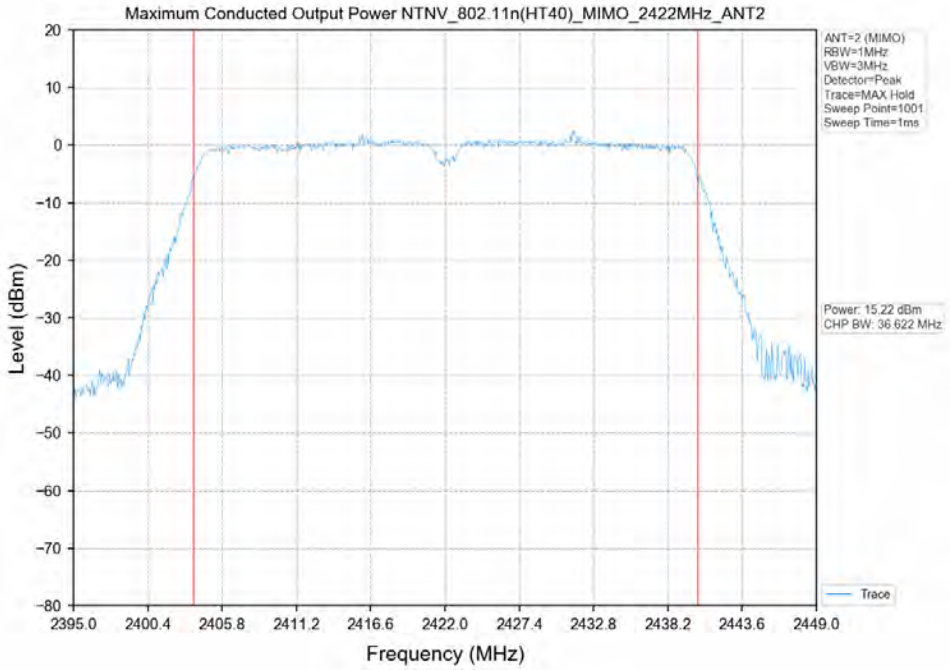

Maximum Conducted Output Power NTNV_802.11n(HT20)_MIMO_2437MHz_ANT1
ANT=1 (MIMO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 15.95 dBm
CHP BW: 18.035 MHz
Trace
Level (dBm)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2423.5
2426.2
2428.9
2431.6
2434.3
2437.0
2439.7
2442.4
2445.1
2447.8
2450.5
Frequency (MHz)

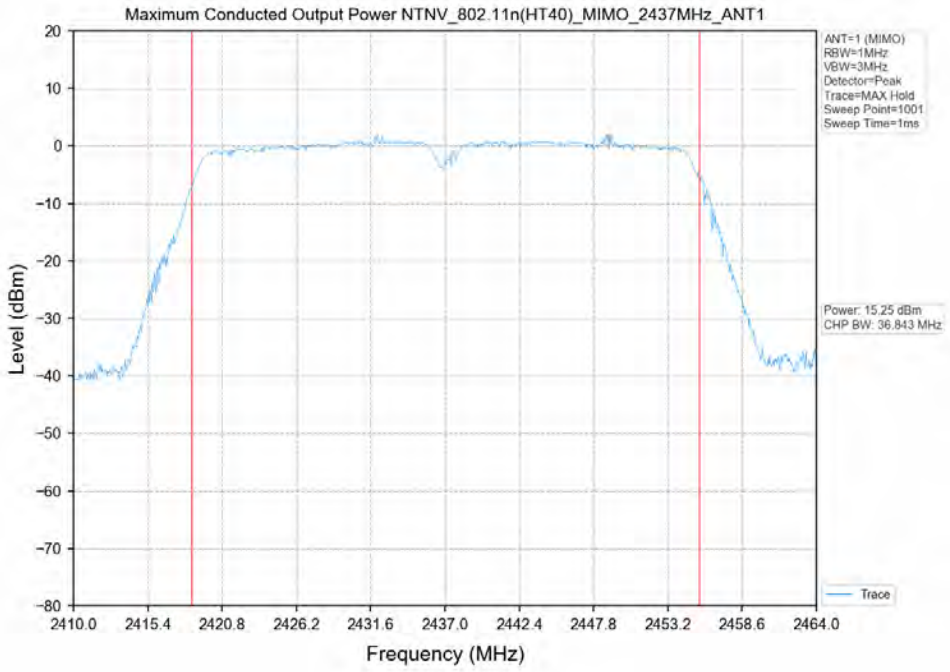

Maximum Conducted Output Power NTNV_802.11n(HT20)_MIMO_2437MHz_ANT2
ANT=2 (MIMO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 16.26 dBm
CHP BW: 18.035 MHz
Trace
Level (dBm)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2423.5
2426.2
2428.9
2431.6
2434.3
2437.0
2439.7
2442.4
2445.1
2447.8
2450.5
Frequency (MHz)

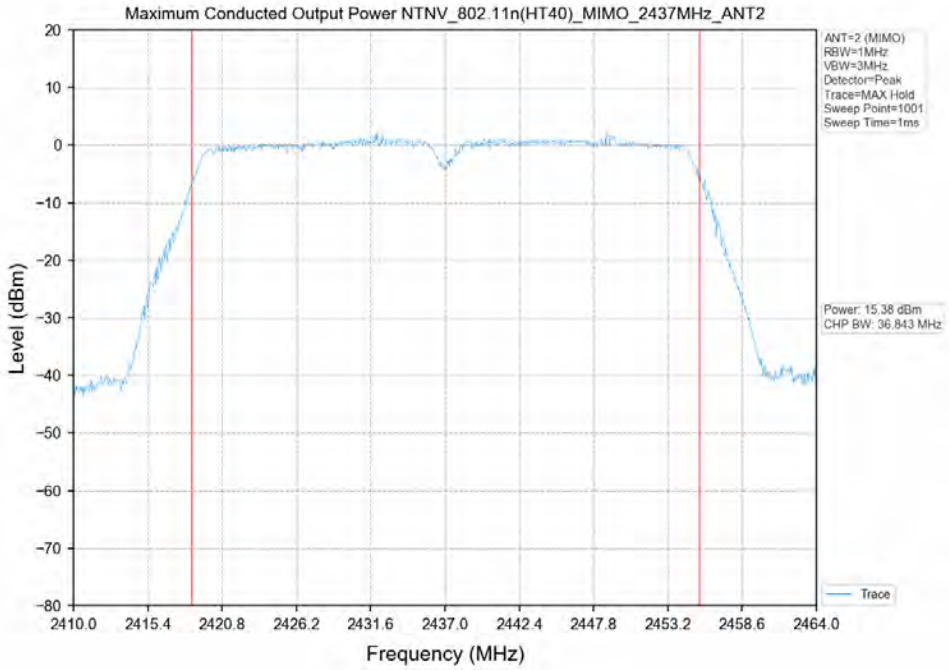

Maximum Conducted Output Power NTNV_802.11n(HT20)_MIMO_2462MHz_ANT1
ANT=1 (MIMO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 16.25 dBm
CHP BW: 18.150 MHz
Trace
Level (dBm)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2448.5
2451.2
2453.9
2456.6
2459.3
2462.0
2464.7
2467.4
2470.1
2472.8
2475.5
Frequency (MHz)

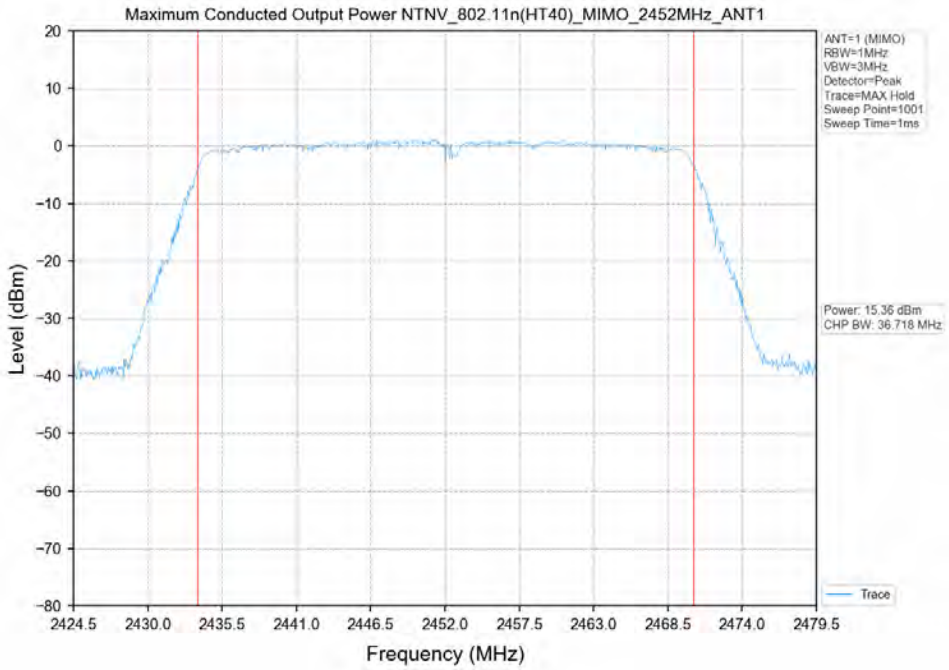

Maximum Conducted Output Power NTNV_802.11n(HT20)_MIMO_2462MHz_ANT2
ANT=2 (MIMO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 16.50 dBm
CHP BW: 18.150 MHz
Trace
Level (dBm)
Frequency (MHz)
20
10
0
−10
−20
−30
−40
−50
−60
−70
−80
2448.5
2451.2
2453.9
2456.6
2459.3
2462.0
2464.7
2467.4
2470.1
2472.8
2475.5

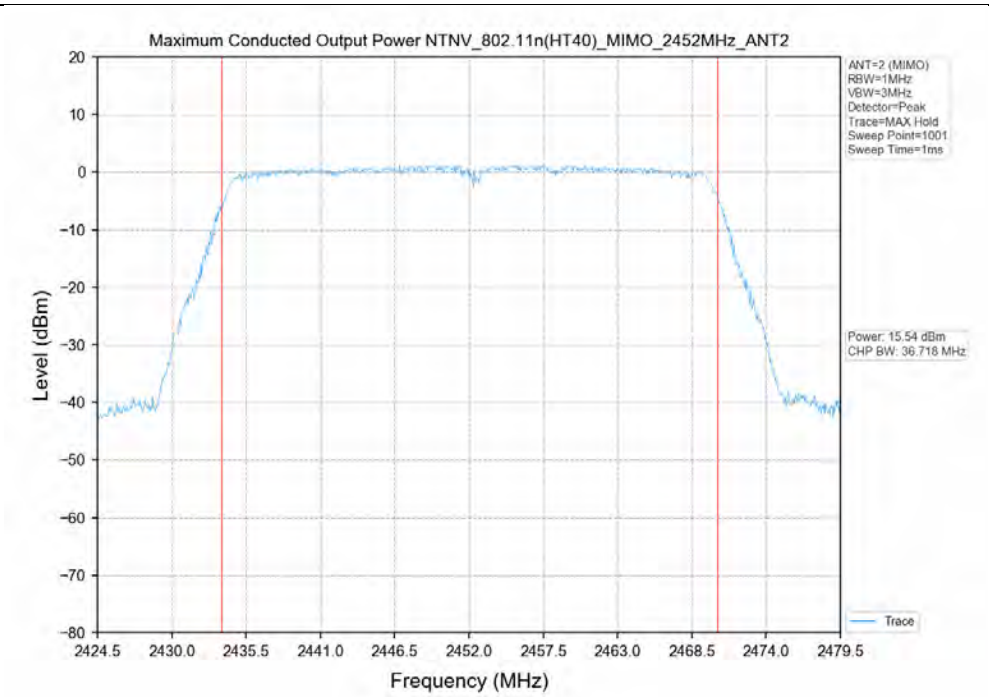

Maximum Conducted Output Power NTNV_802.11n(HT40)_MIMO_2422MHz_ANT1
ANT=1 (MIMO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 15.00 dBm
CHP BW: 36.622 MHz
Trace
Level (dBm)
Frequency (MHz)
20
10
0
−10
−20
−30
−40
−50
−60
−70
−80
2395.0
2400.4
2405.8
2411.2
2416.6
2422.0
2427.4
2432.8
2438.2
2443.6
2449.0


Maximum Conducted Output Power NTNV_802.11n(HT40)_MIMO_2422MHz_ANT2
ANT=2 (MIMO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 15.22 dBm
CHP BW: 36.622 MHz
Trace
Level (dBm)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2395.0
2400.4
2405.8
2411.2
2416.6
2422.0
2427.4
2432.8
2438.2
2443.6
2449.0
Frequency (MHz)


Maximum Conducted Output Power NTNV_802.11n(HT40)_MIMO_2437MHz_ANT1
ANT=1 (MIMO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 15.25 dBm
CHP BW: 36.843 MHz
Trace
Level (dBm)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2410.0
2415.4
2420.8
2426.2
2431.6
2437.0
2442.4
2447.8
2453.2
2458.6
2464.0
Frequency (MHz)


Maximum Conducted Output Power NTNV_802.11n(HT40)_MIMO_2437MHz_ANT2
ANT=2 (MIMO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 15.38 dBm
CHP BW: 36.843 MHz
Trace
Level (dBm)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2410.0
2415.4
2420.8
2426.2
2431.6
2437.0
2442.4
2447.8
2453.2
2458.6
2464.0
Frequency (MHz)


Maximum Conducted Output Power NTNV_802.11n(HT40)_MIMO_2452MHz_ANT1
ANT=1 (MIMO)
RBW=1MHz
VBW=3MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
Power: 15.36 dBm
CHP BW: 36.718 MHz
Trace
Level (dBm)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2424.5
2430.0
2435.5
2441.0
2446.5
2452.0
2457.5
2463.0
2468.5
2474.0
2479.5
Frequency (MHz)

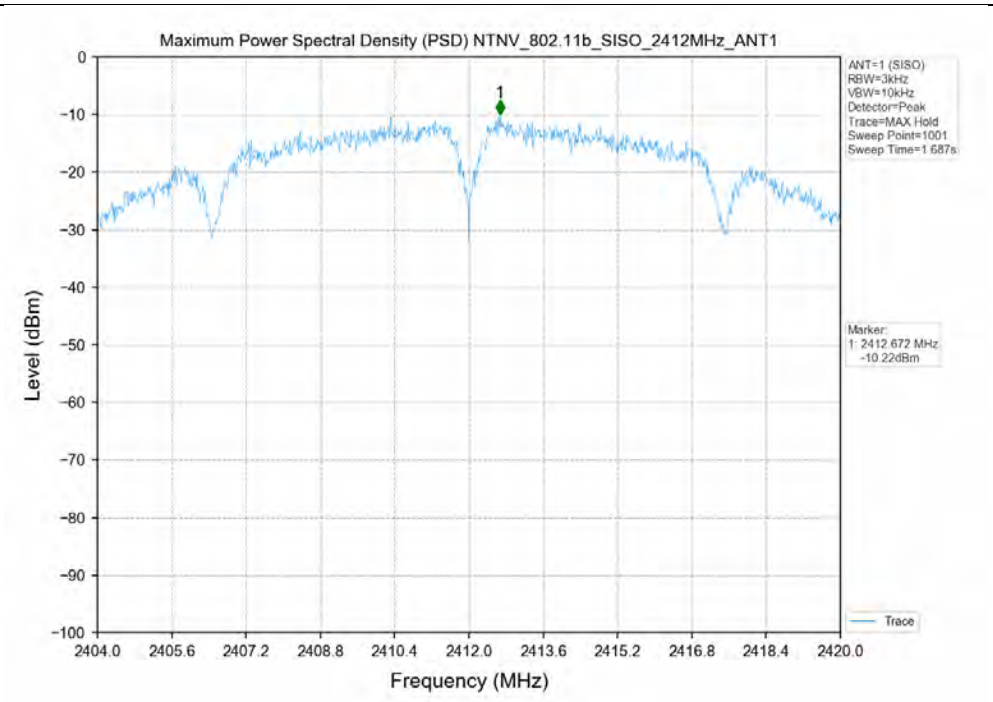


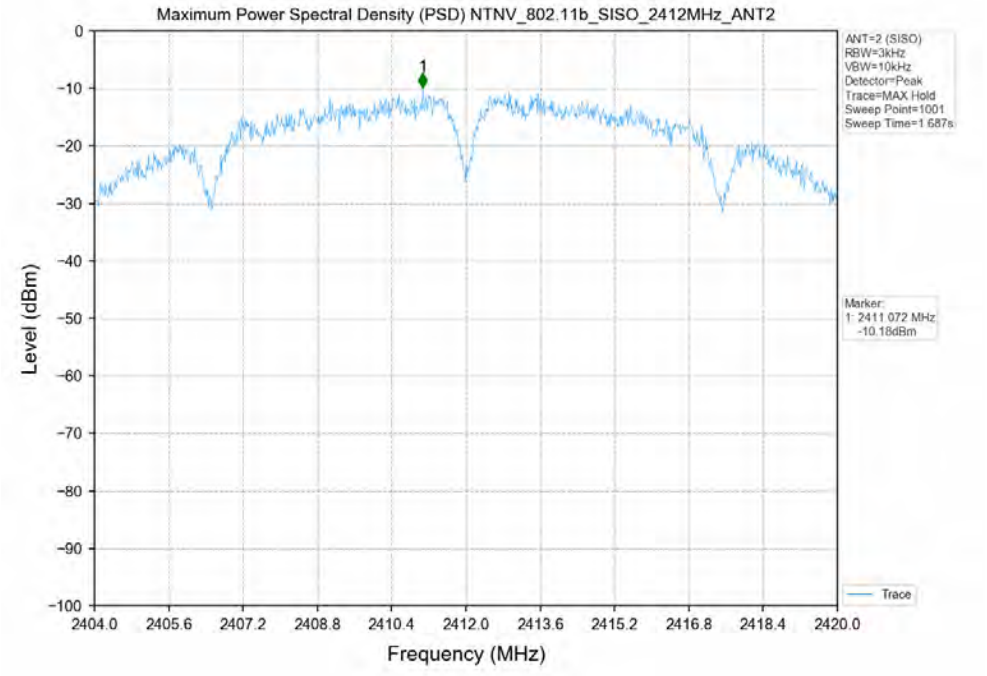
4. Maximum Power Spectral Density (PSD)

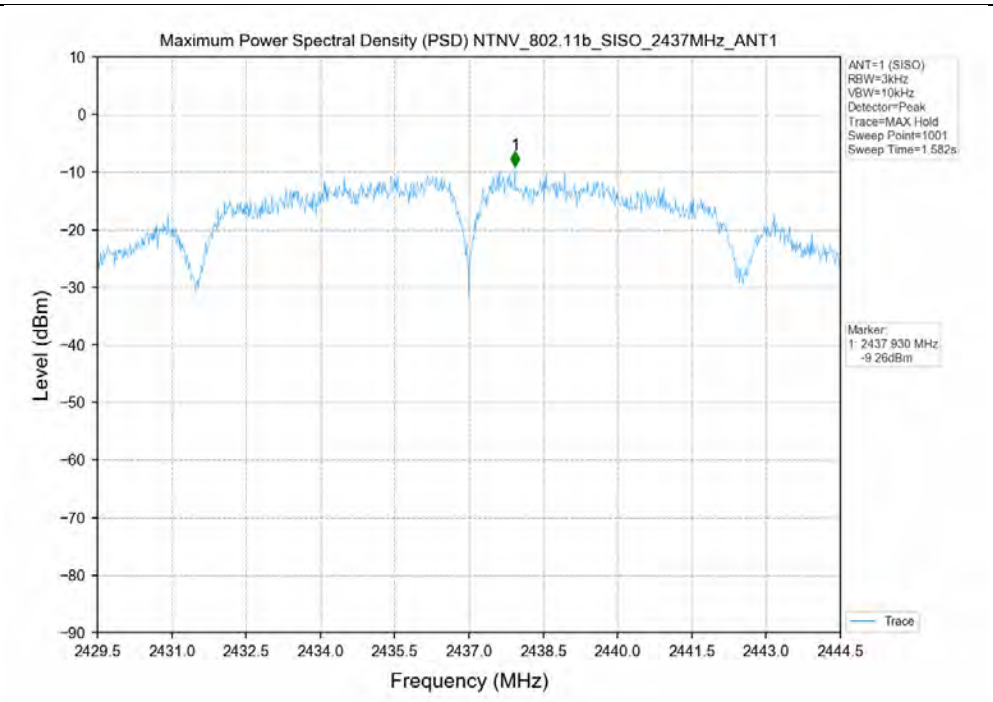
4.1 Test Result

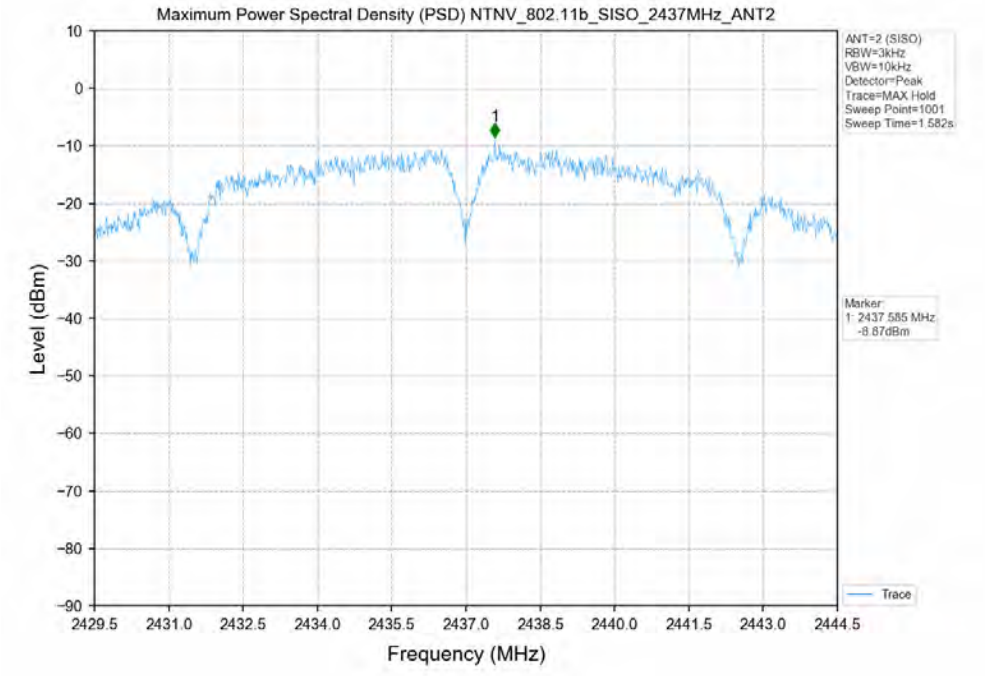
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)			Limits (dBm/3kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	-10.22	-10.18	/	≤8	PASS
	2437	SISO	-9.26	-8.87	/	≤8	PASS
	2462	SISO	-8.83	-9.04	/	≤8	PASS
802.11g	2412	SISO	-16.38	-16.86	/	≤8	PASS
	2437	SISO	-16.19	-16.62	/	≤8	PASS
	2462	SISO	-16.25	-15.85	/	≤8	PASS
802.11n(HT20)	2412	MIMO	-17.05	-17.26	-14.44	≤8	PASS
	2437	MIMO	-16.59	-17.22	-13.88	≤8	PASS
	2462	MIMO	-16.90	-16.54	-13.76	≤8	PASS
802.11n(HT40)	2422	MIMO	-21.10	-20.56	-17.88	≤8	PASS
	2437	MIMO	-20.65	-21.07	-18.08	≤8	PASS
	2452	MIMO	-21.23	-20.92	-18.83	≤8	PASS

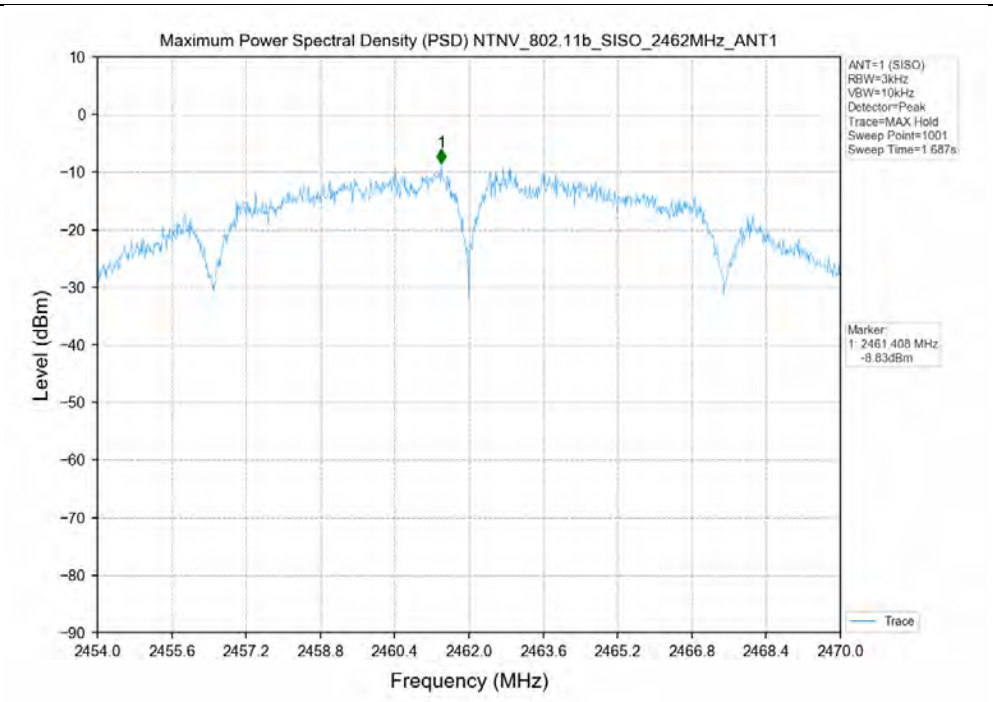
4.2 Test Graph

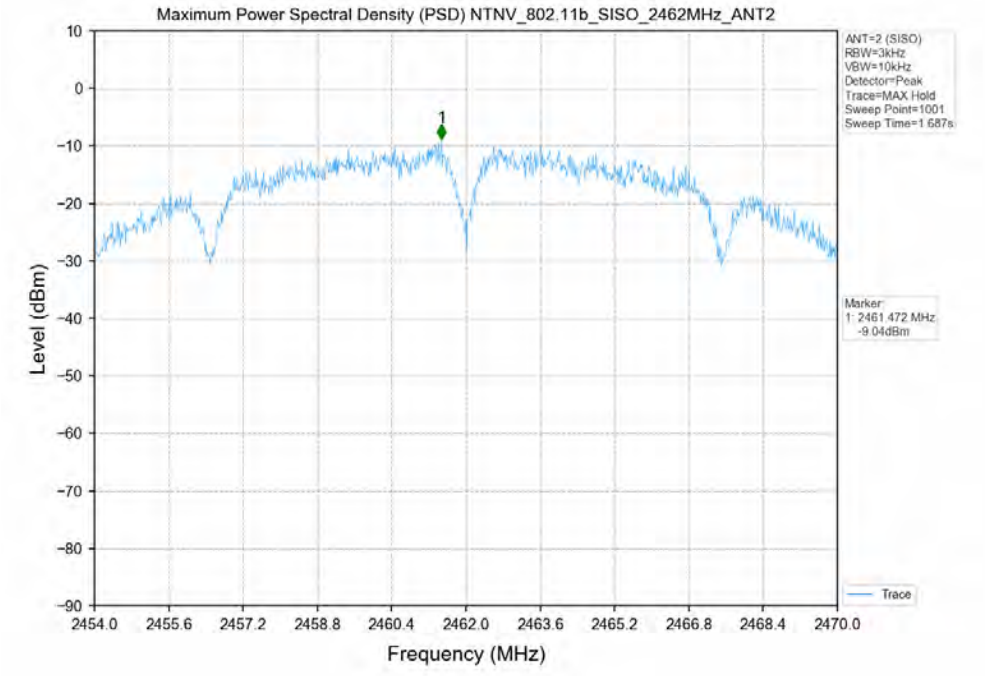

Maximum Power Spectral Density (PSD) NTNV_802.11b_SISO_2412MHz_ANT1
ANT=1 (SISO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.687s
Marker:
1: 2412.672 MHz
-10.22dBm
Trace
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2404.0
2405.6
2407.2
2408.8
2410.4
2412.0
2413.6
2415.2
2416.8
2418.4
2420.0

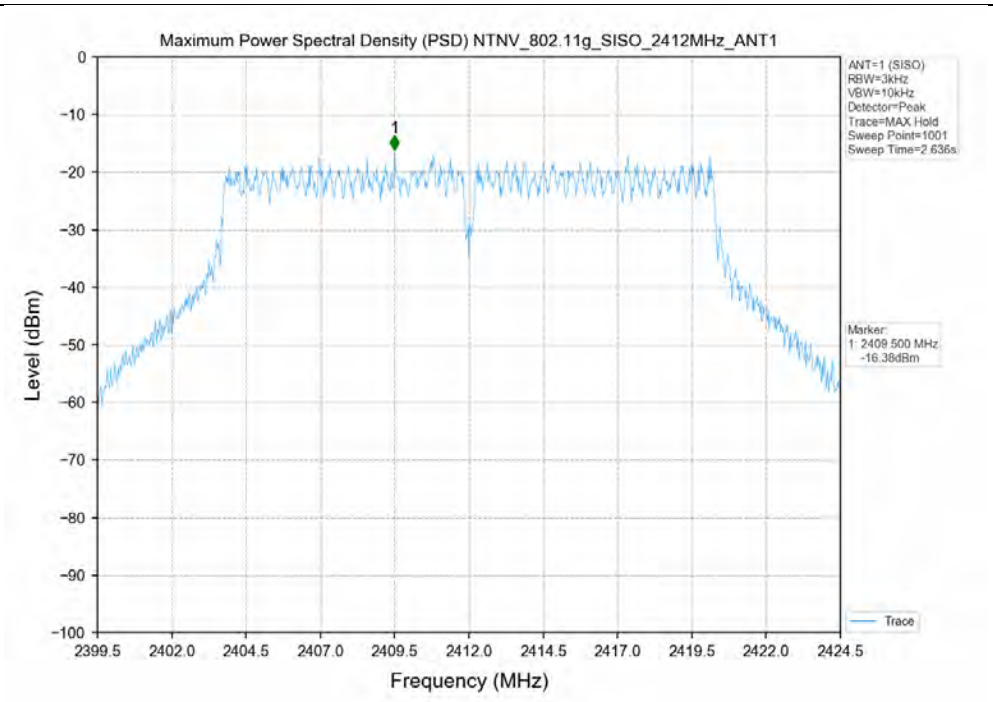

Maximum Power Spectral Density (PSD) NTNV_802.11b_SISO_2412MHz_ANT2
ANT=2 (SISO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.687s
Marker:
1: 2411.072 MHz
-10.18dBm
Trace
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2404.0
2405.6
2407.2
2408.8
2410.4
2412.0
2413.6
2415.2
2416.8
2418.4
2420.0

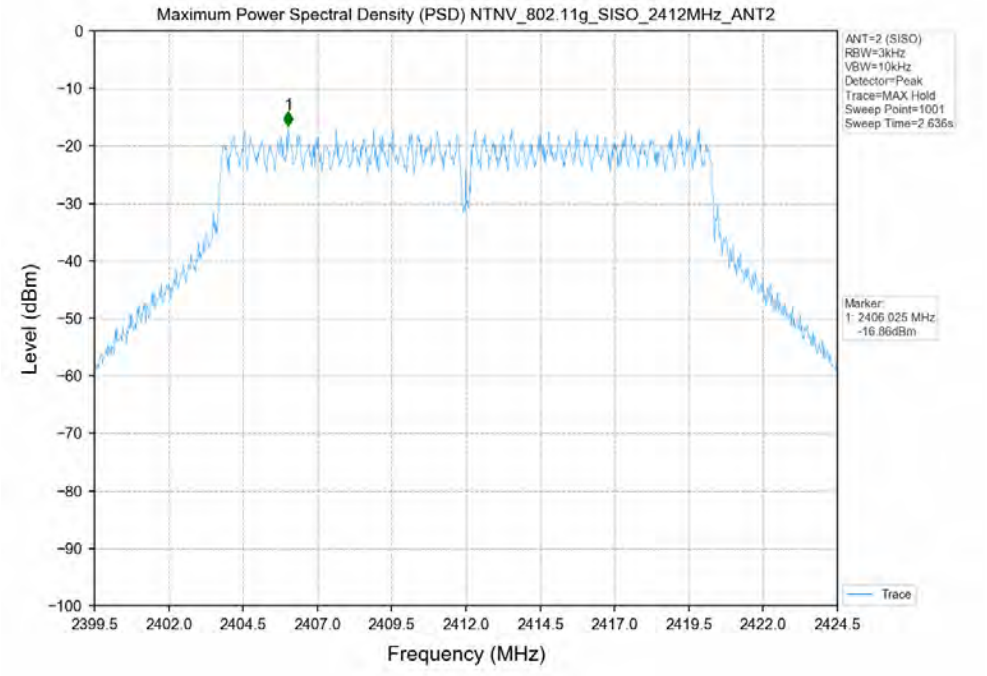

Maximum Power Spectral Density (PSD) NTNV_802.11b_SISO_2437MHz_ANT1
ANT=1 (SISO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.582s
Marker:
1: 2437.930 MHz
-9.26dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
2429.5
2431.0
2432.5
2434.0
2435.5
2437.0
2438.5
2440.0
2441.5
2443.0
2444.5

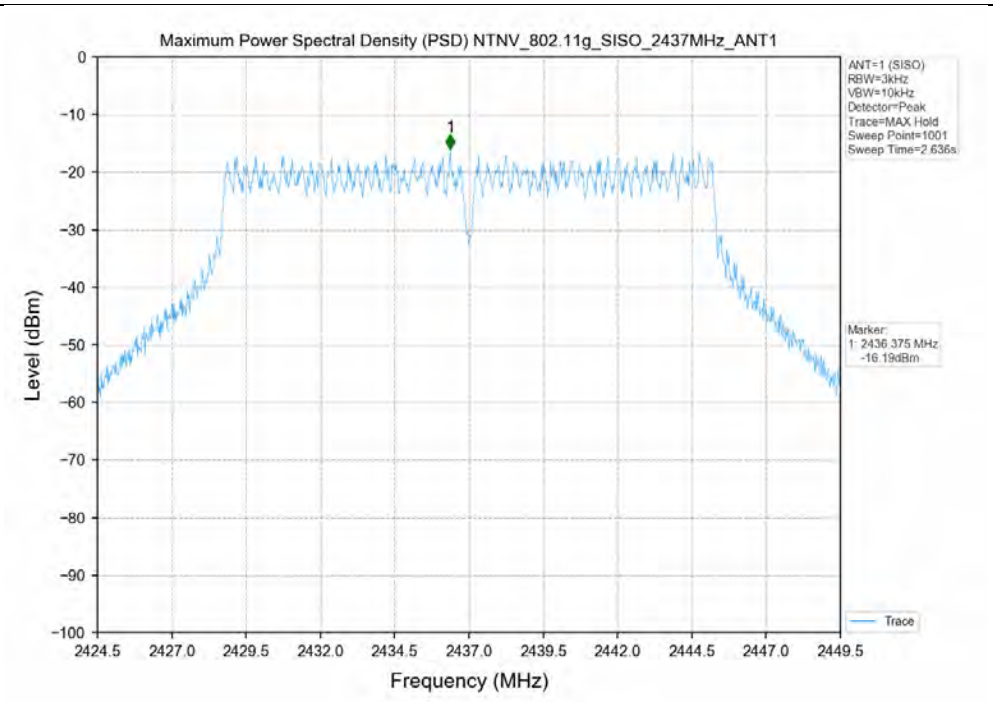

Maximum Power Spectral Density (PSD) NTNV_802.11b_SISO_2437MHz_ANT2
ANT=2 (SISO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.582s
Marker:
1: 2437.585 MHz
-8.87dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
2429.5
2431.0
2432.5
2434.0
2435.5
2437.0
2438.5
2440.0
2441.5
2443.0
2444.5

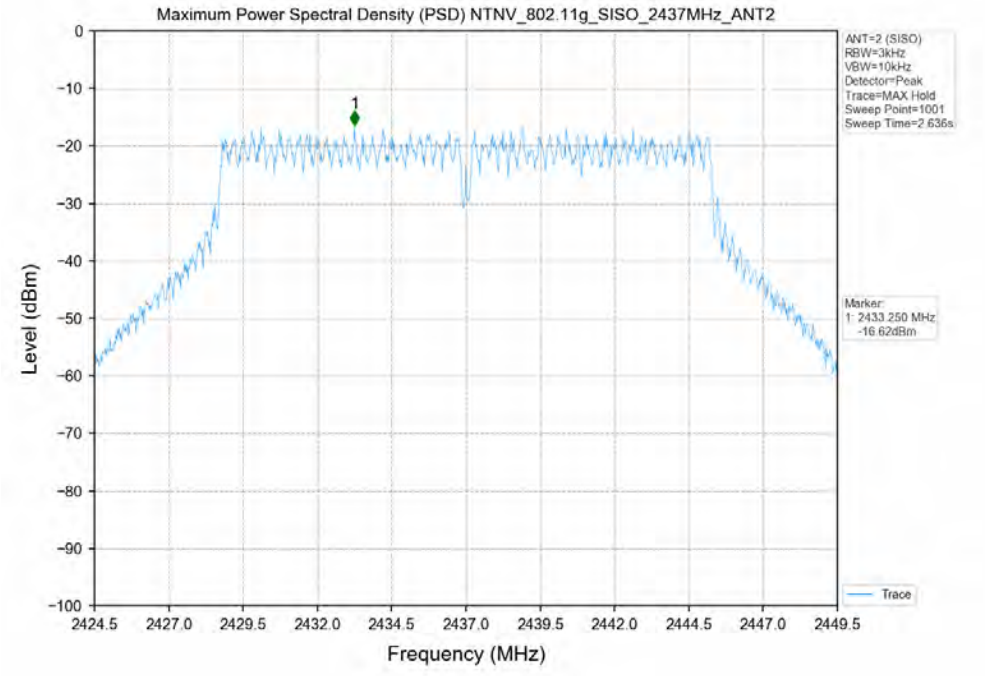

Maximum Power Spectral Density (PSD) NTNV_802.11b_SISO_2462MHz_ANT1
ANT=1 (SISO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.687s
Marker
1: 2461.408 MHz
-8.83dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
2454.0
2455.6
2457.2
2458.8
2460.4
2462.0
2463.6
2465.2
2466.8
2468.4
2470.0

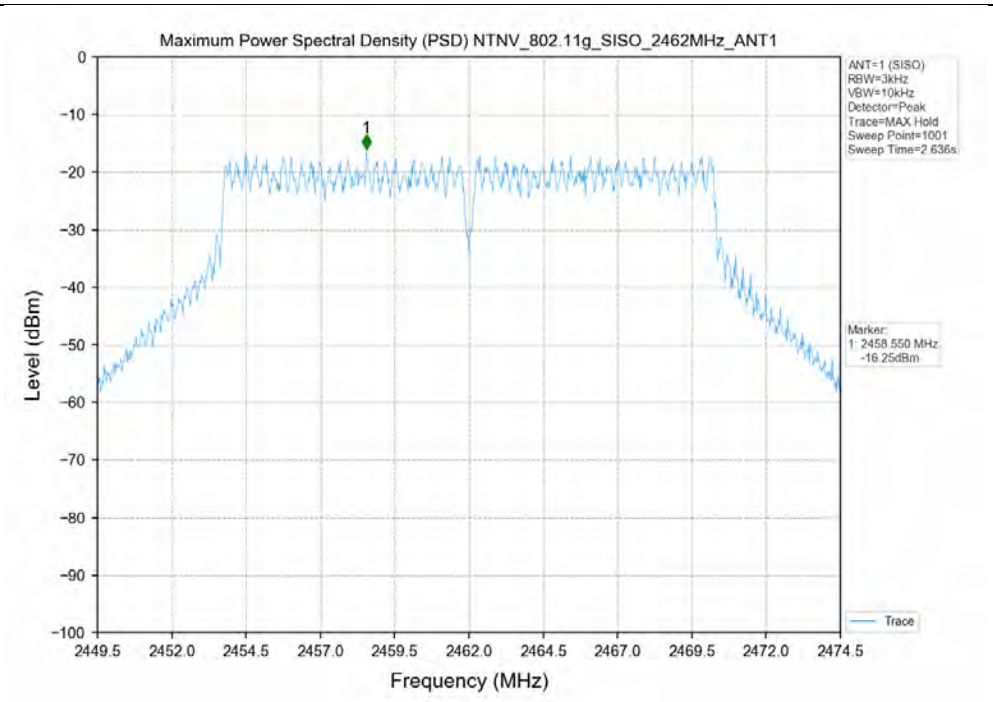

Maximum Power Spectral Density (PSD) NTNV_802.11b_SISO_2462MHz_ANT2
ANT=2 (SISO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.687s
Marker
1: 2461.472 MHz
-9.04dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
2454.0
2455.6
2457.2
2458.8
2460.4
2462.0
2463.6
2465.2
2466.8
2468.4
2470.0

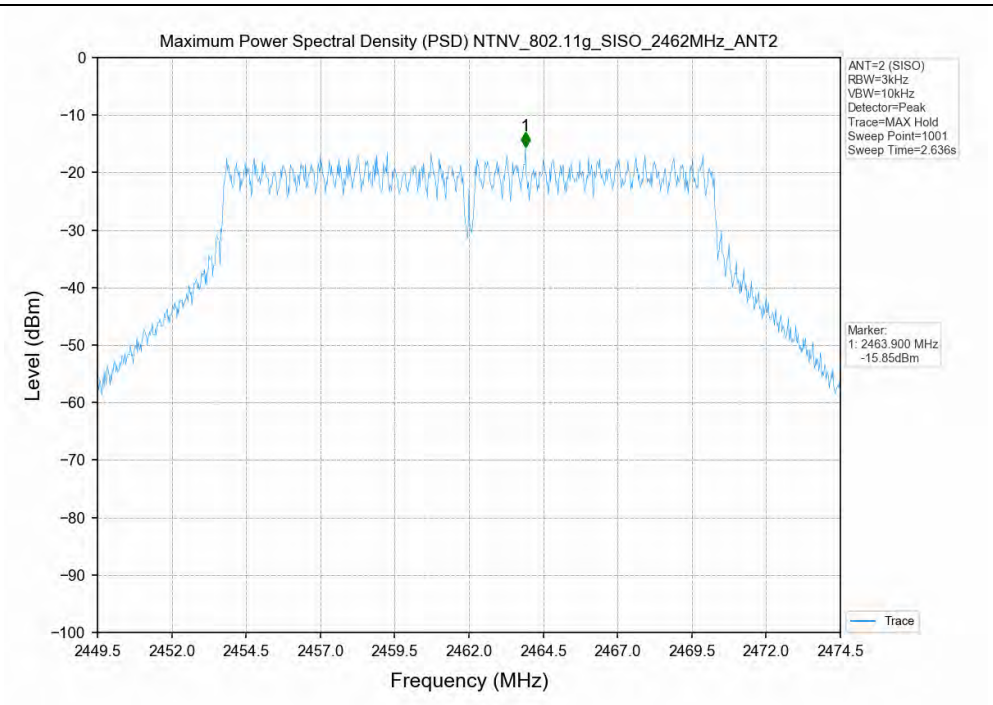

Maximum Power Spectral Density (PSD) NTNV_802.11g_SISO_2412MHz_ANT1
ANT=1 (SISO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.636s
Marker:
1: 2409.500 MHz
-16.38dBm
Trace
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2399.5
2402.0
2404.5
2407.0
2409.5
2412.0
2414.5
2417.0
2419.5
2422.0
2424.5

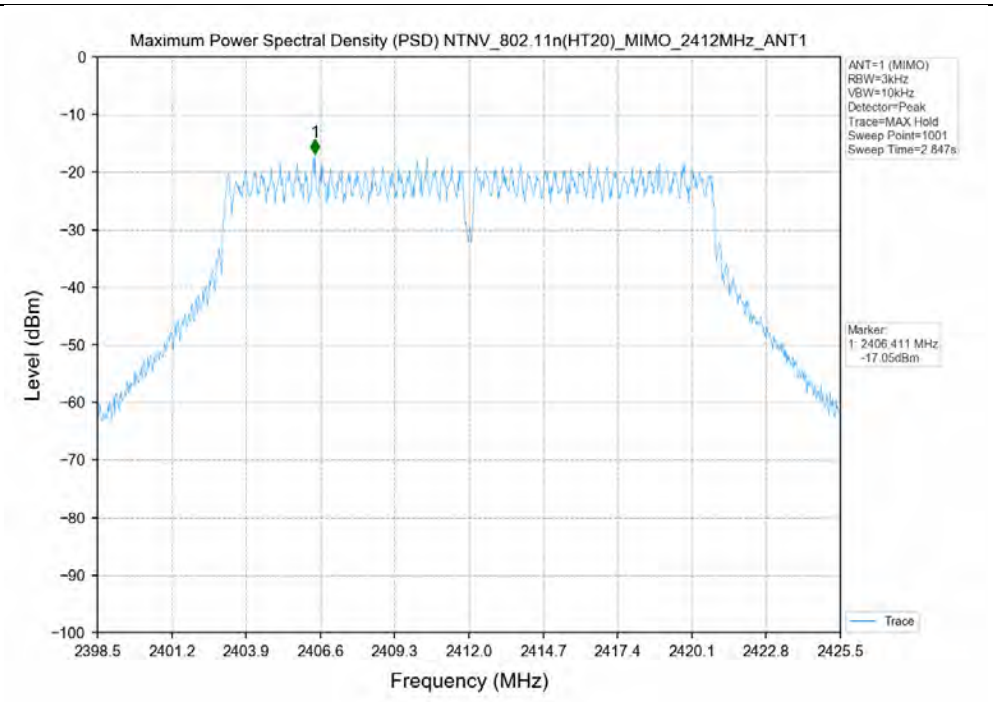

Maximum Power Spectral Density (PSD) NTNV_802.11g_SISO_2412MHz_ANT2
ANT=2 (SISO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.636s
Marker:
1: 2406.025 MHz
-16.86dBm
Trace
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2399.5
2402.0
2404.5
2407.0
2409.5
2412.0
2414.5
2417.0
2419.5
2422.0
2424.5

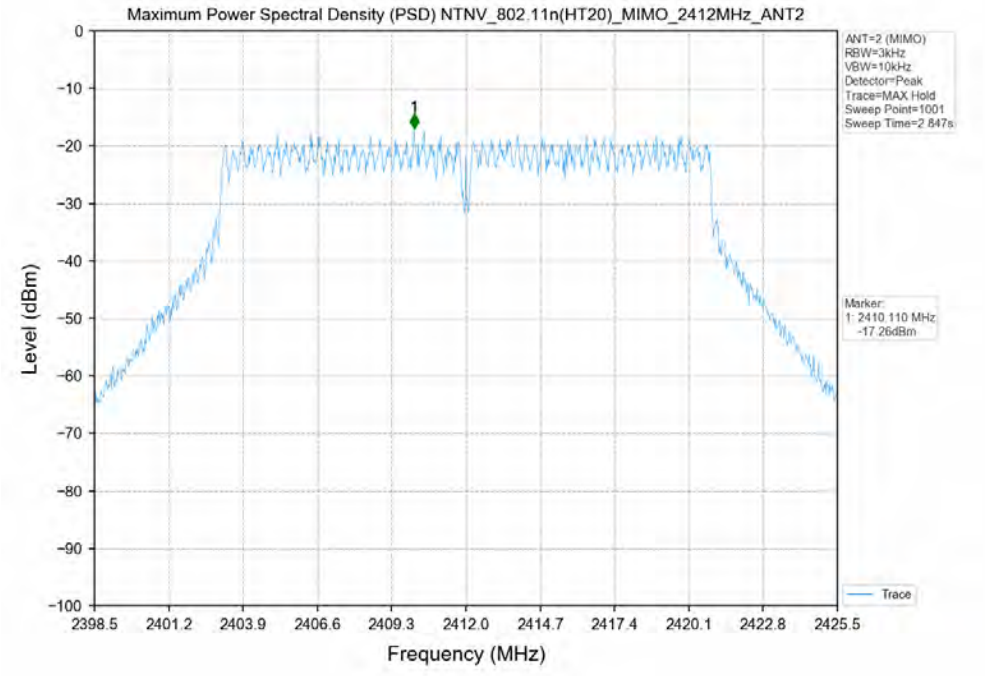

Maximum Power Spectral Density (PSD) NTNV_802.11g_SISO_2437MHz_ANT1
ANT=1 (SISO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.636s
Marker:
1: 2436.375 MHz
-16.19dBm
Trace
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2424.5
2427.0
2429.5
2432.0
2434.5
2437.0
2439.5
2442.0
2444.5
2447.0
2449.5

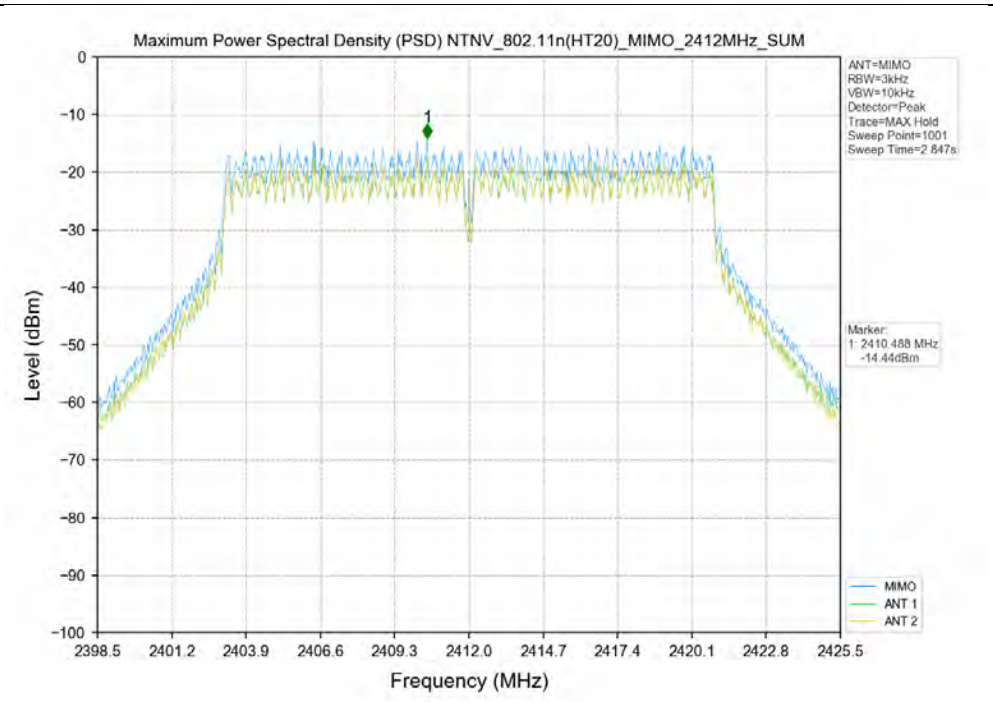

Maximum Power Spectral Density (PSD) NTNV_802.11g_SISO_2437MHz_ANT2
ANT=2 (SISO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.636s
Marker:
1: 2433.250 MHz
-16.62dBm
Trace
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2424.5
2427.0
2429.5
2432.0
2434.5
2437.0
2439.5
2442.0
2444.5
2447.0
2449.5

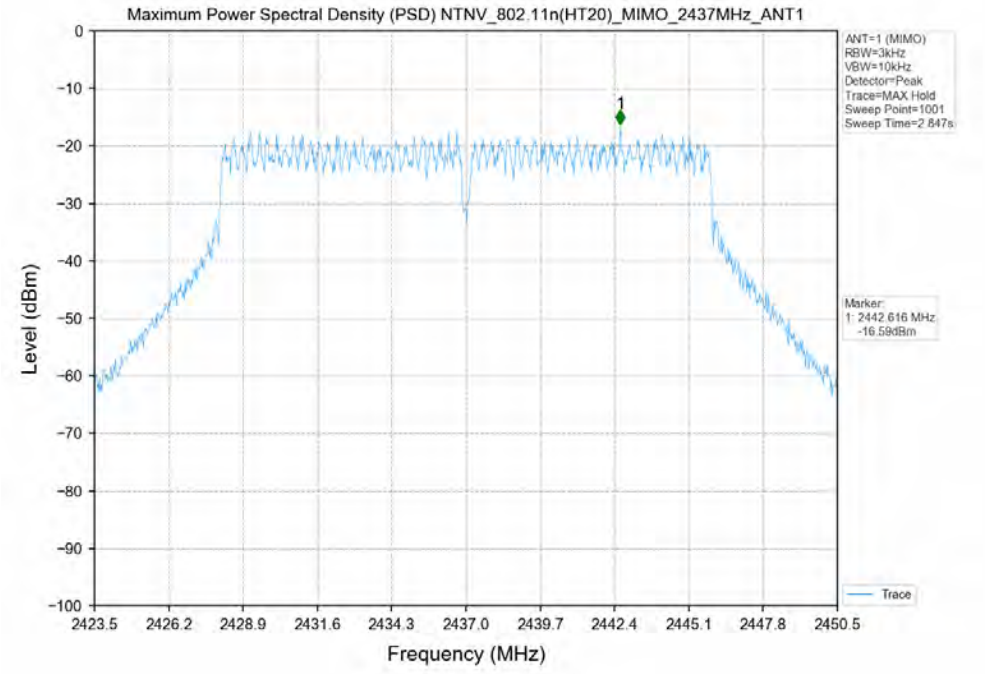

Maximum Power Spectral Density (PSD) NTNV_802.11g_SISO_2462MHz_ANT1
ANT=1 (SISO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.636s
Marker:
1: 2458.550 MHz
-16.25dBm
Trace
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2449.5
2452.0
2454.5
2457.0
2459.5
2462.0
2464.5
2467.0
2469.5
2472.0
2474.5

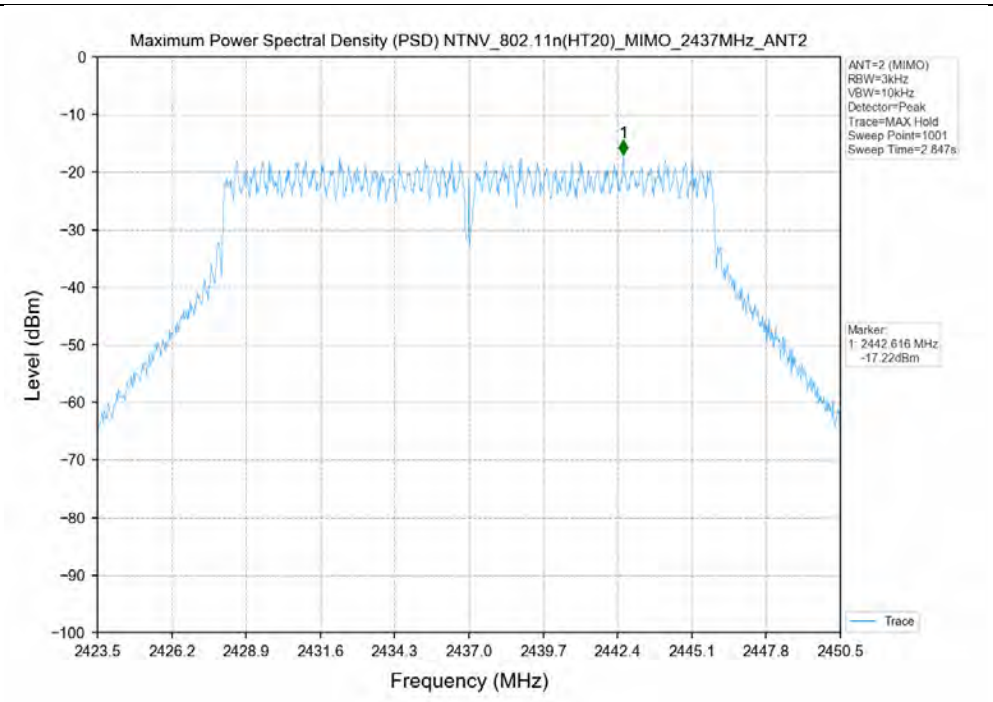

Maximum Power Spectral Density (PSD) NTNV_802.11g_SISO_2462MHz_ANT2
ANT=2 (SISO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.636s
Marker:
1: 2463.900 MHz
-15.85dBm
Trace
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2449.5
2452.0
2454.5
2457.0
2459.5
2462.0
2464.5
2467.0
2469.5
2472.0
2474.5

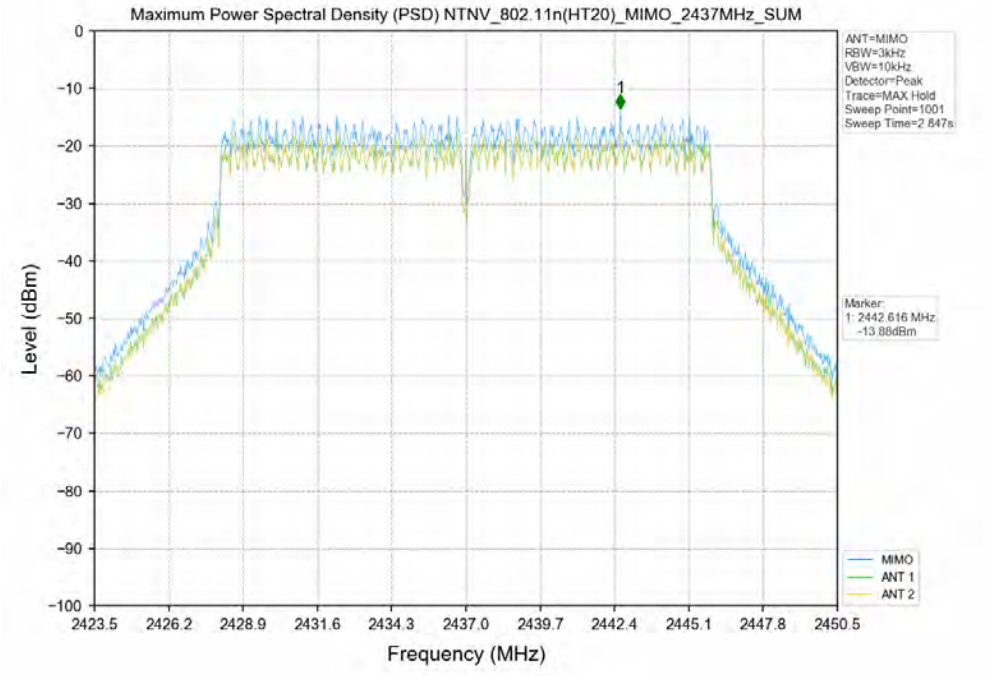

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT20)_MIMO_2412MHz_ANT1
ANT=1 (MIMO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.847s
Marker:
1: 2406.411 MHz
-17.05dBm
Trace
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2398.5
2401.2
2403.9
2406.6
2409.3
2412.0
2414.7
2417.4
2420.1
2422.8
2425.5

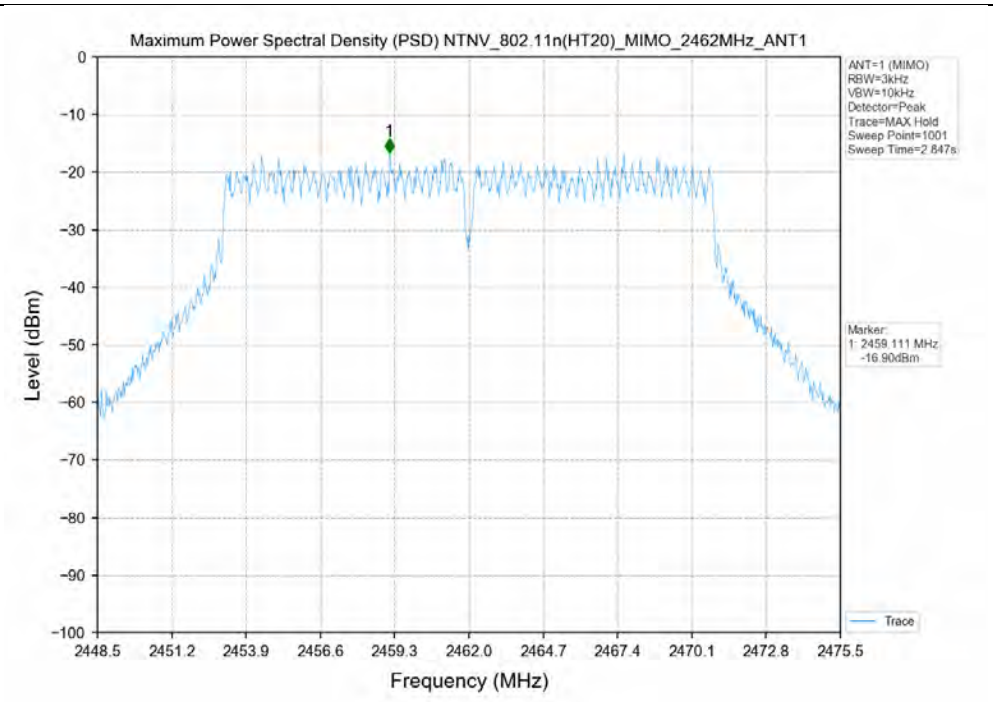

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT20)_MIMO_2412MHz_ANT2
ANT=2 (MIMO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.847s
Marker:
1: 2410.110 MHz
-17.26dBm
Trace
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2398.5
2401.2
2403.9
2406.6
2409.3
2412.0
2414.7
2417.4
2420.1
2422.8
2425.5

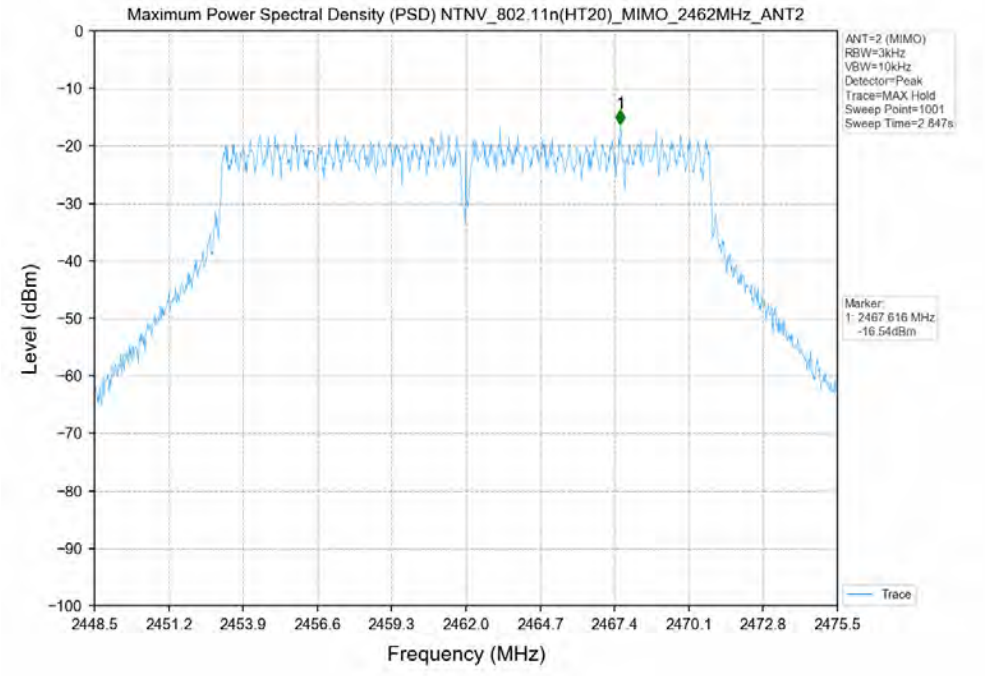

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT20)_MIMO_2412MHz_SUM
ANT=MIMO
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.847s
Marker:
1: 2410.488 MHz
-14.44dBm
MIMO
ANT 1
ANT 2
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2398.5
2401.2
2403.9
2406.6
2409.3
2412.0
2414.7
2417.4
2420.1
2422.8
2425.5

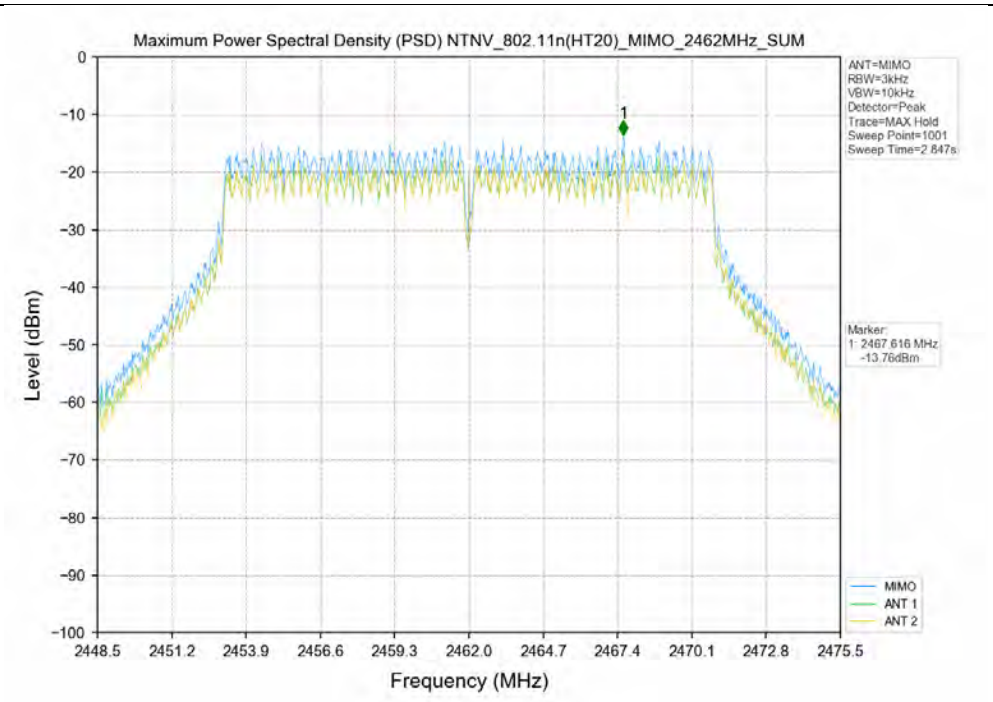

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT20)_MIMO_2437MHz_ANT1
ANT=1 (MIMO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.847s
Marker:
1: 2442.616 MHz
-16.59dBm
Trace
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2423.5
2426.2
2428.9
2431.6
2434.3
2437.0
2439.7
2442.4
2445.1
2447.8
2450.5

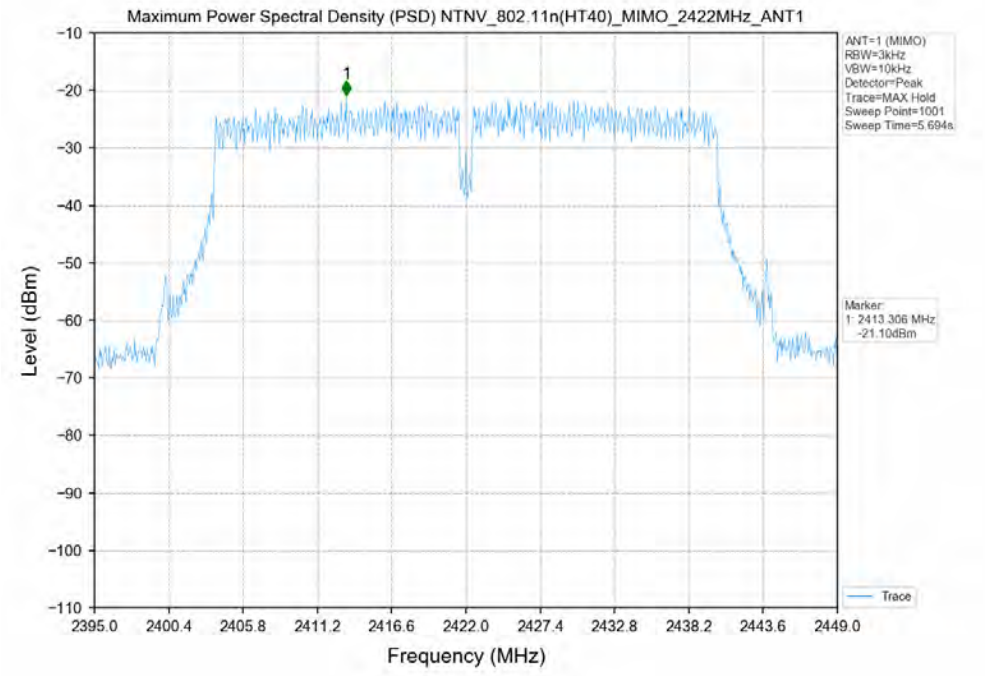

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT20)_MIMO_2437MHz_ANT2
ANT=2 (MIMO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.847s
Marker:
1: 2442.616 MHz
-17.22dBm
Trace
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2423.5
2426.2
2428.9
2431.6
2434.3
2437.0
2439.7
2442.4
2445.1
2447.8
2450.5

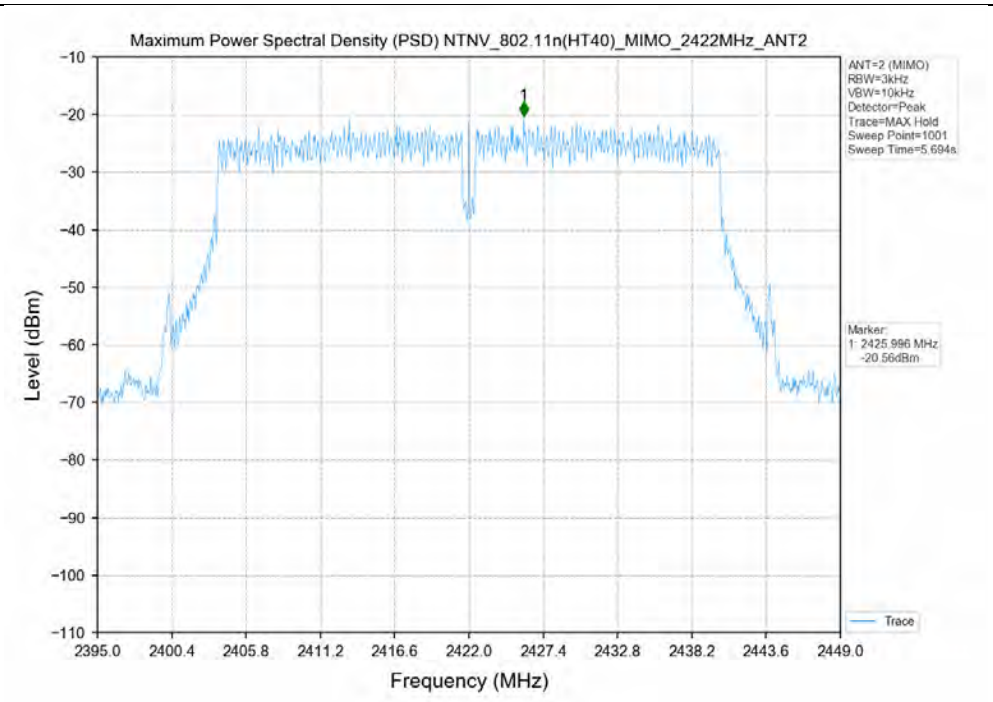

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT20)_MIMO_2437MHz_SUM
ANT=MIMO
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.847s
Marker:
1: 2442.616 MHz
-13.88dBm
MIMO
ANT 1
ANT 2
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2423.5
2426.2
2428.9
2431.6
2434.3
2437.0
2439.7
2442.4
2445.1
2447.8
2450.5

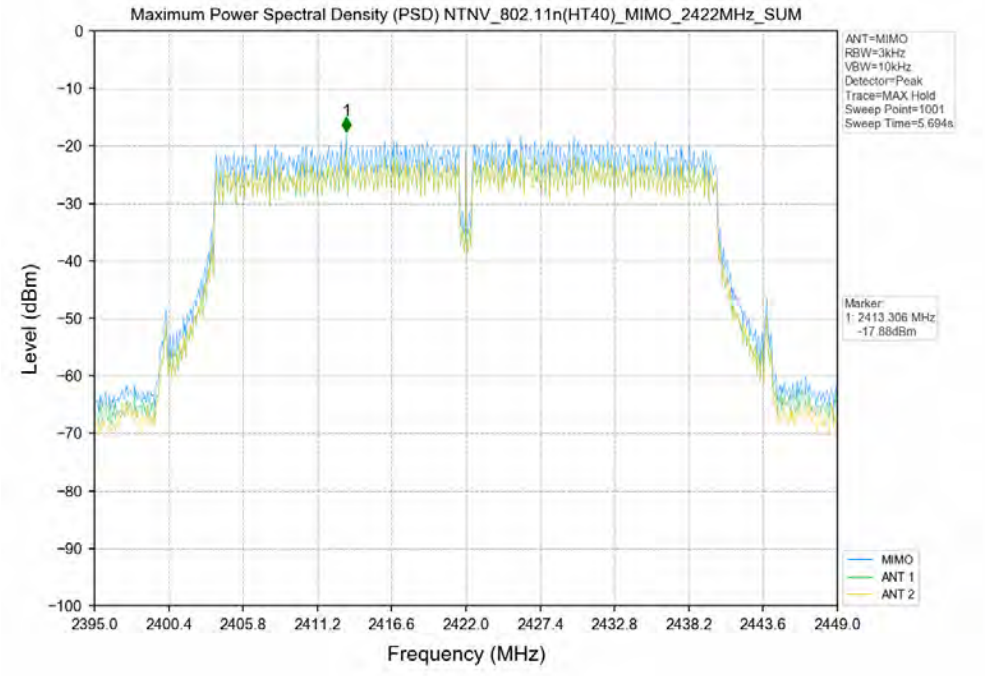

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT20)_MIMO_2462MHz_ANT1
ANT=1 (MIMO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.847s
Marker:
1: 2459.111 MHz
-16.90dBm
Trace
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2448.5
2451.2
2453.9
2456.6
2459.3
2462.0
2464.7
2467.4
2470.1
2472.8
2475.5

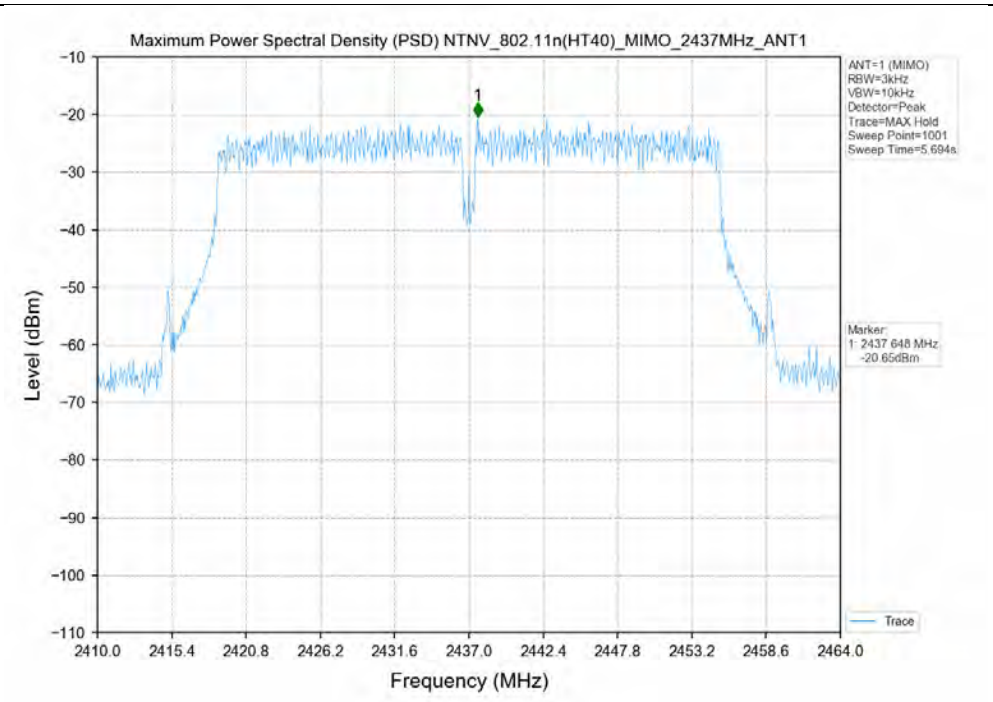

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT20)_MIMO_2462MHz_ANT2
ANT=2 (MIMO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.847s
Marker:
1: 2467.616 MHz
-16.54dBm
Trace
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2448.5
2451.2
2453.9
2456.6
2459.3
2462.0
2464.7
2467.4
2470.1
2472.8
2475.5

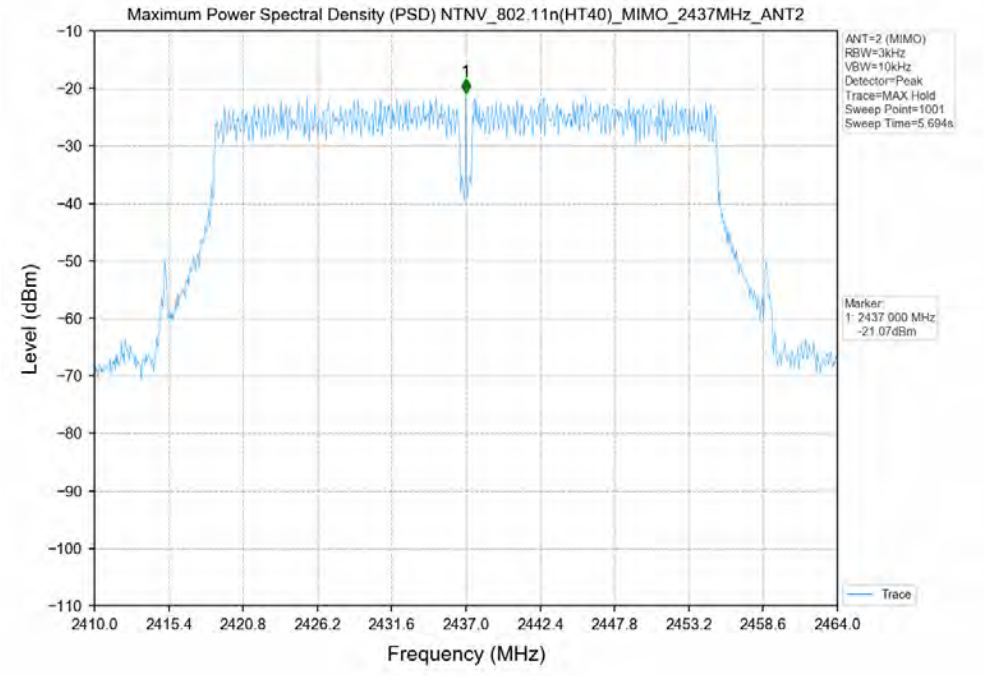

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT20)_MIMO_2462MHz_SUM
ANT=MIMO
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.847s
Marker:
1: 2467.616 MHz
-13.76dBm
MIMO
ANT 1
ANT 2
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2448.5
2451.2
2453.9
2456.6
2459.3
2462.0
2464.7
2467.4
2470.1
2472.8
2475.5

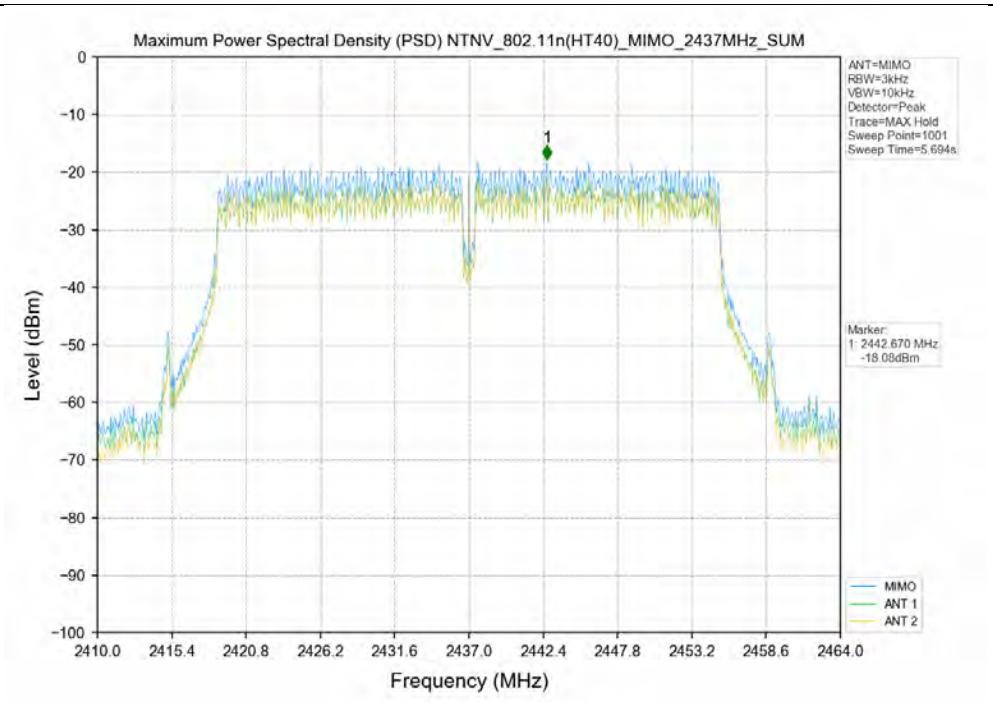

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT40)_MIMO_2422MHz_ANT1
ANT=1 (MIMO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=5.694s
Marker:
1: 2413.306 MHz
-21.10dBm
Trace
Level (dBm)
Frequency (MHz)
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
2395.0
2400.4
2405.8
2411.2
2416.6
2422.0
2427.4
2432.8
2438.2
2443.6
2449.0

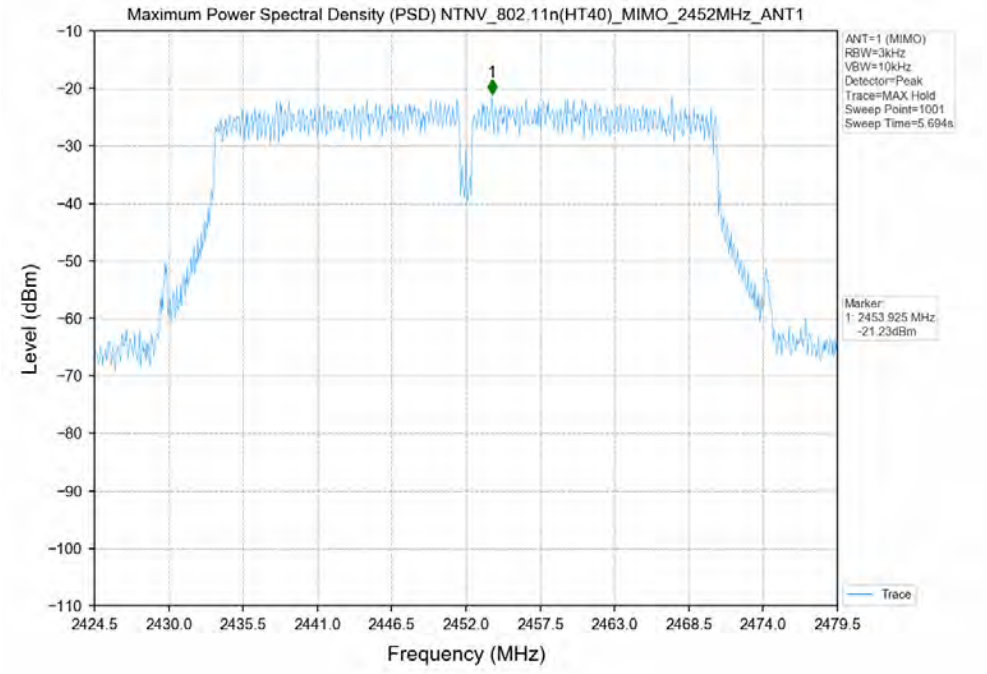

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT40)_MIMO_2422MHz_ANT2
ANT=2 (MIMO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=5.694s
Marker:
1: 2425.996 MHz
-20.56dBm
Trace
Level (dBm)
Frequency (MHz)
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
2395.0
2400.4
2405.8
2411.2
2416.6
2422.0
2427.4
2432.8
2438.2
2443.6
2449.0

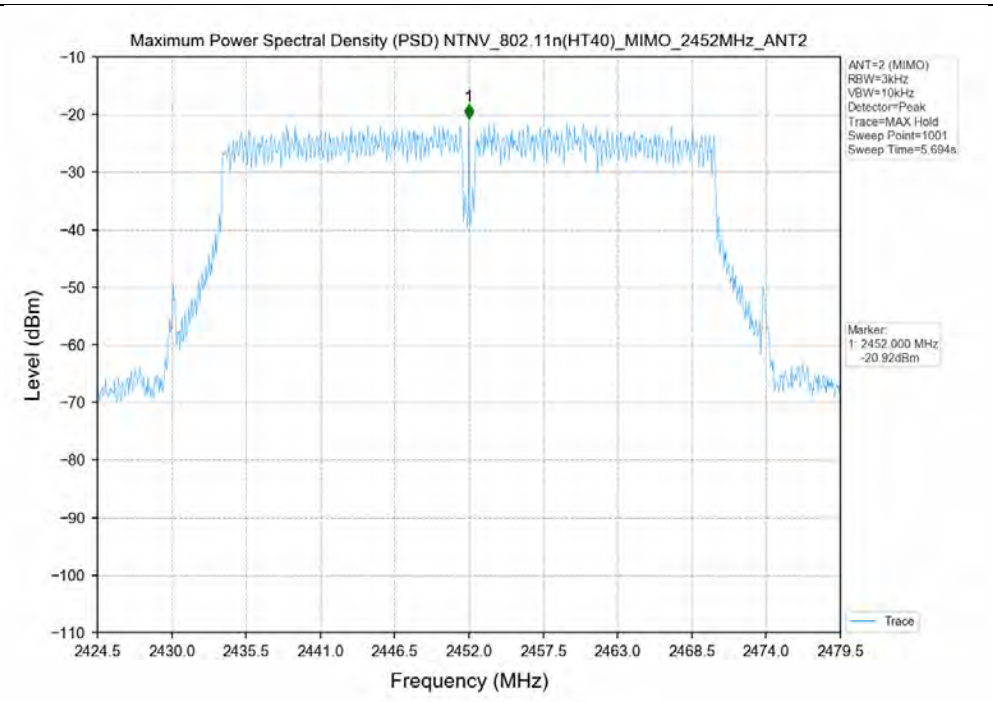

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT40)_MIMO_2422MHz_SUM
ANT=MIMO
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=5.694s
Marker:
1: 2413.306 MHz
-17.88dBm
MIMO
ANT 1
ANT 2
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2395.0
2400.4
2405.8
2411.2
2416.6
2422.0
2427.4
2432.8
2438.2
2443.6
2449.0

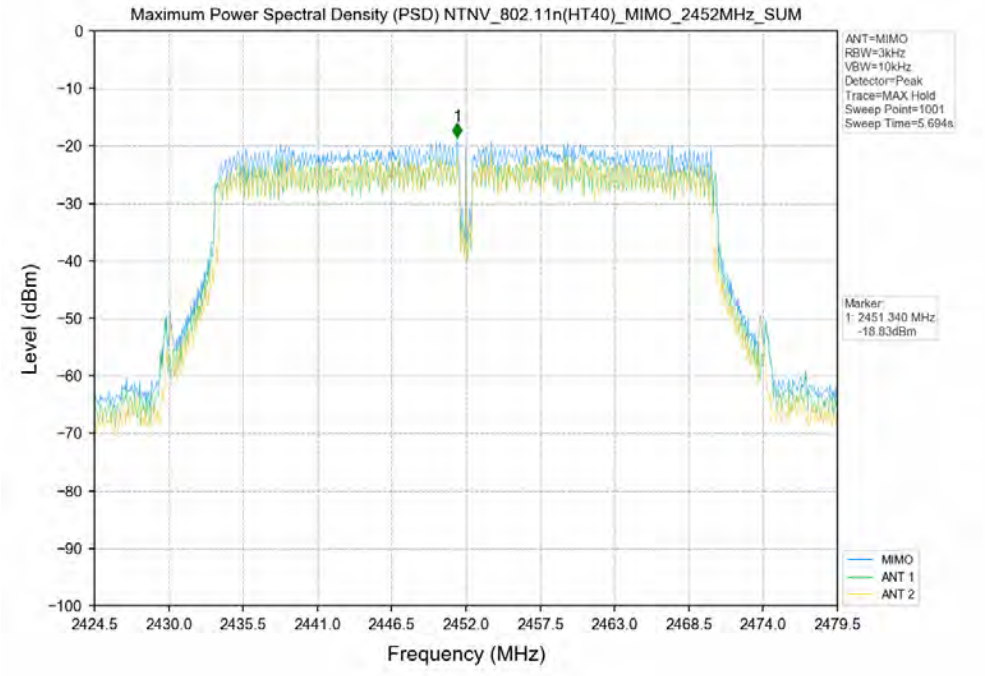

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT40)_MIMO_2437MHz_ANT1
ANT=1 (MIMO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=5.694s
Marker:
1: 2437.648 MHz
-20.65dBm
Trace
Level (dBm)
Frequency (MHz)
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
2410.0
2415.4
2420.8
2426.2
2431.6
2437.0
2442.4
2447.8
2453.2
2458.6
2464.0


Maximum Power Spectral Density (PSD) NTNV_802.11n(HT40)_MIMO_2437MHz_ANT2
ANT=2 (MIMO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=5.694s
Marker:
1: 2437.000 MHz
-21.07dBm
Trace
Level (dBm)
Frequency (MHz)
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
2410.0
2415.4
2420.8
2426.2
2431.6
2437.0
2442.4
2447.8
2453.2
2458.6
2464.0


Maximum Power Spectral Density (PSD) NTNV_802.11n(HT40)_MIMO_2437MHz_SUM
ANT=MIMO
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=5.694s
Marker:
1: 2442.670 MHz
-18.08dBm
MIMO
ANT 1
ANT 2
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2410.0
2415.4
2420.8
2426.2
2431.6
2437.0
2442.4
2447.8
2453.2
2458.6
2464.0


Maximum Power Spectral Density (PSD) NTNV_802.11n(HT40)_MIMO_2452MHz_ANT1
ANT=1 (MIMO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=5.694s
Marker:
1: 2453.925 MHz
-21.23dBm
Trace
Level (dBm)
Frequency (MHz)
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
2424.5
2430.0
2435.5
2441.0
2446.5
2452.0
2457.5
2463.0
2468.5
2474.0
2479.5


Maximum Power Spectral Density (PSD) NTNV_802.11n(HT40)_MIMO_2452MHz_ANT2
ANT=2 (MIMO)
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=5.694s
Marker:
1: 2452.000 MHz
-20.92dBm
Trace
Level (dBm)
Frequency (MHz)
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
2424.5
2430.0
2435.5
2441.0
2446.5
2452.0
2457.5
2463.0
2468.5
2474.0
2479.5

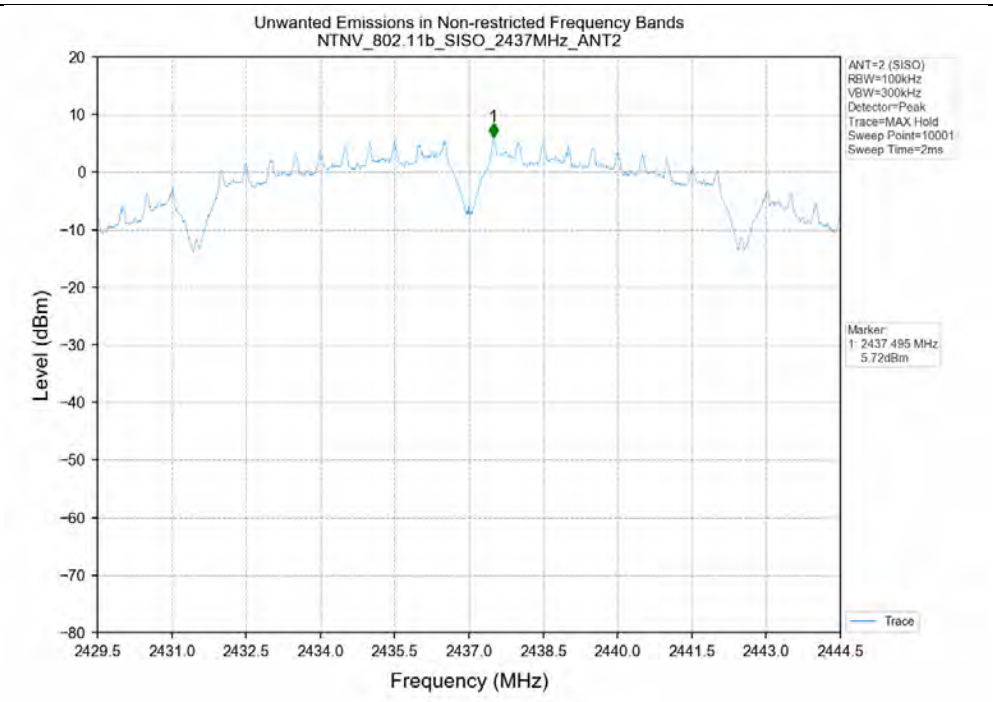

Maximum Power Spectral Density (PSD) NTNV_802.11n(HT40)_MIMO_2452MHz_SUM
ANT=MIMO
RBW=3kHz
VBW=10kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=5.694s
Marker:
1: 2451.340 MHz
-18.83dBm
MIMO
ANT 1
ANT 2
Level (dBm)
Frequency (MHz)
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
2424.5
2430.0
2435.5
2441.0
2446.5
2452.0
2457.5
2463.0
2468.5
2474.0
2479.5

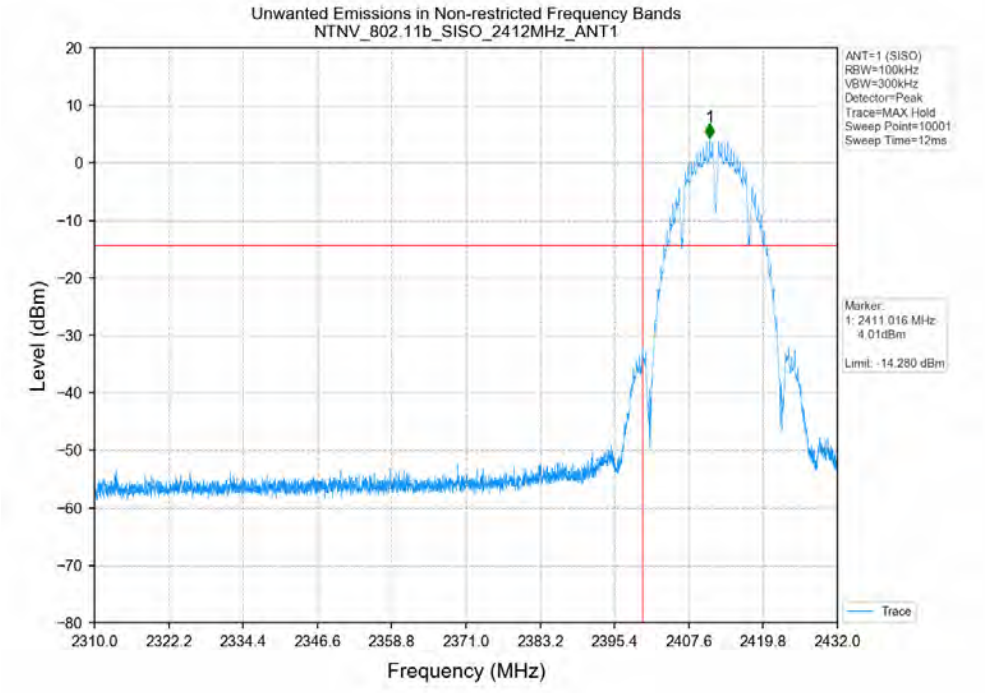
5. Unwanted Emissions in Non-restricted Frequency Bands

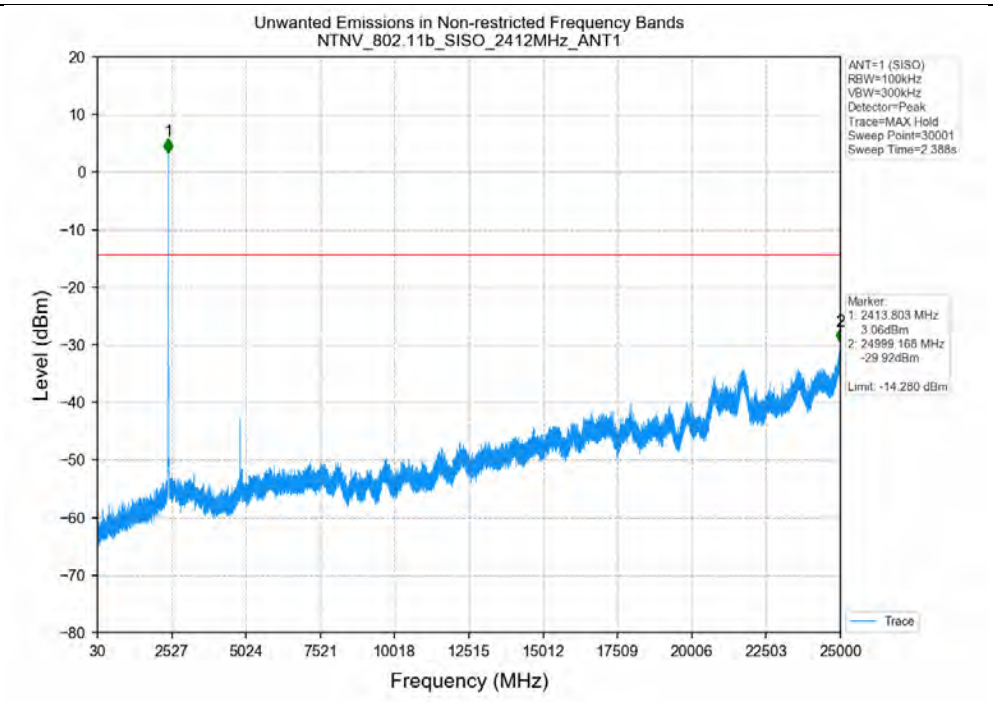
5.1 Test Result

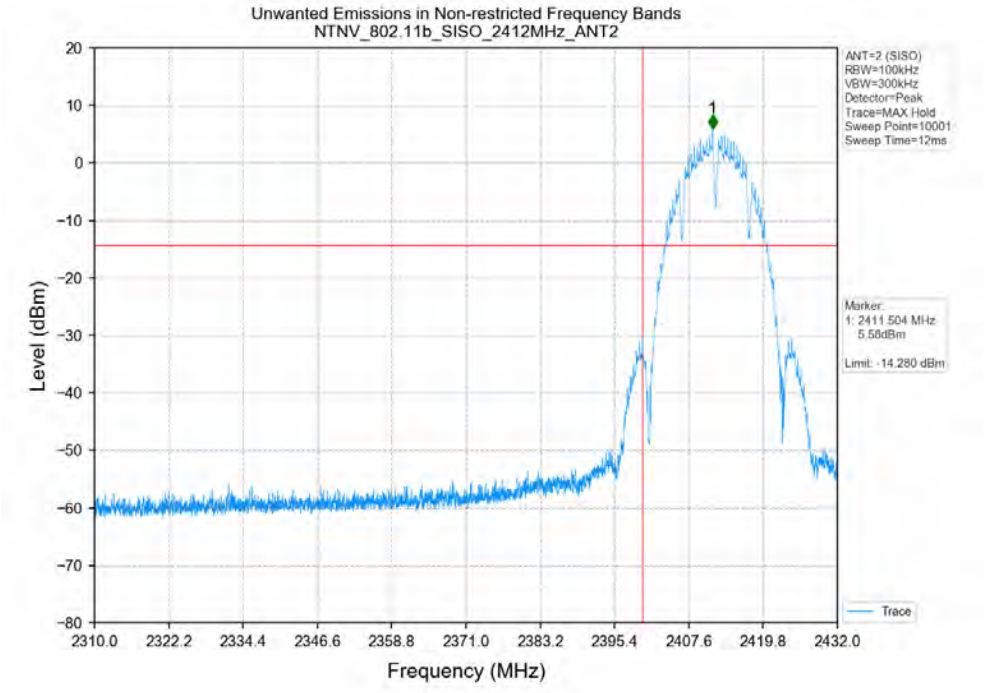
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBc)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2437	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2462	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
802.11g	2412	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2437	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2462	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
802.11n(HT20)	2412	MIMO	1	Refer to test graph	-20	PASS
	2412	MIMO	2	Refer to test graph	-20	PASS
	2437	MIMO	1	Refer to test graph	-20	PASS
	2437	MIMO	2	Refer to test graph	-20	PASS
	2462	MIMO	1	Refer to test graph	-20	PASS
	2462	MIMO	2	Refer to test graph	-20	PASS
802.11n(HT40)	2422	MIMO	1	Refer to test graph	-20	PASS
	2422	MIMO	2	Refer to test graph	-20	PASS
	2437	MIMO	1	Refer to test graph	-20	PASS
	2437	MIMO	2	Refer to test graph	-20	PASS
	2452	MIMO	1	Refer to test graph	-20	PASS
	2452	MIMO	2	Refer to test graph	-20	PASS

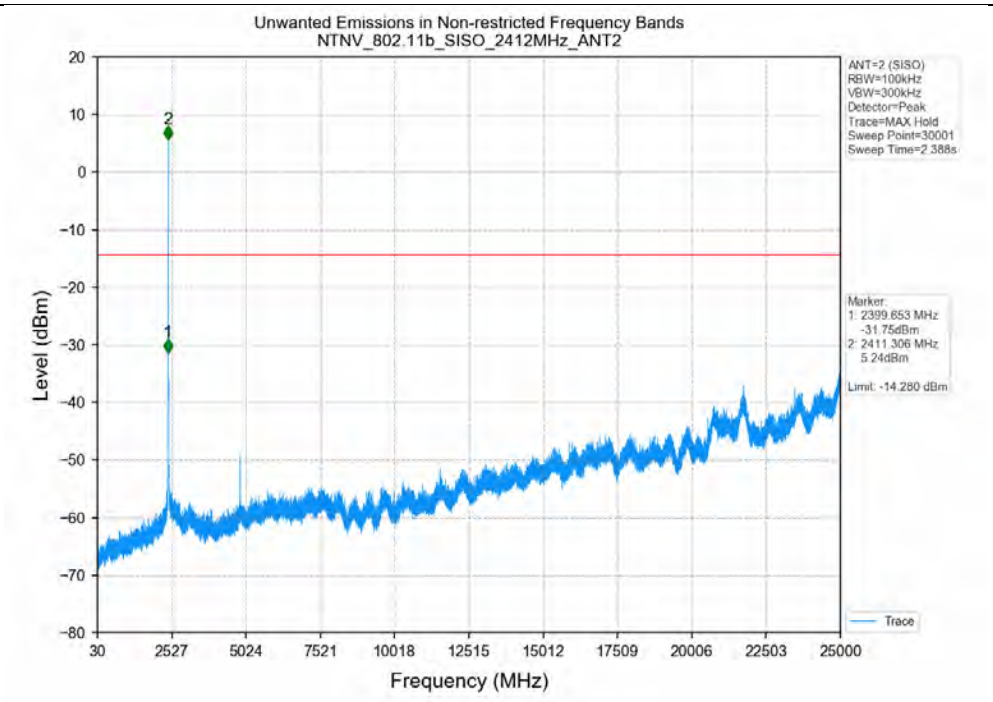
5.2 Test Graph

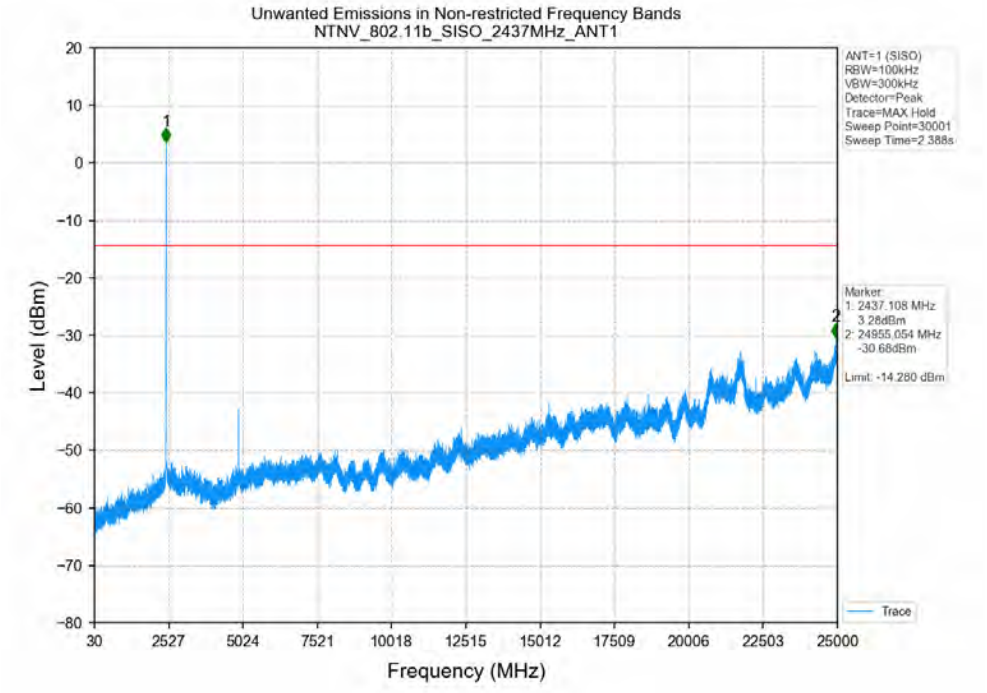

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11b_SISO_2437MHz_ANT2
ANT=2 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=2ms
Marker:
1: 2437.495 MHz
5.72dBm
Trace
Level (dBm)
Frequency (MHz)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2429.5
2431.0
2432.5
2434.0
2435.5
2437.0
2438.5
2440.0
2441.5
2443.0
2444.5

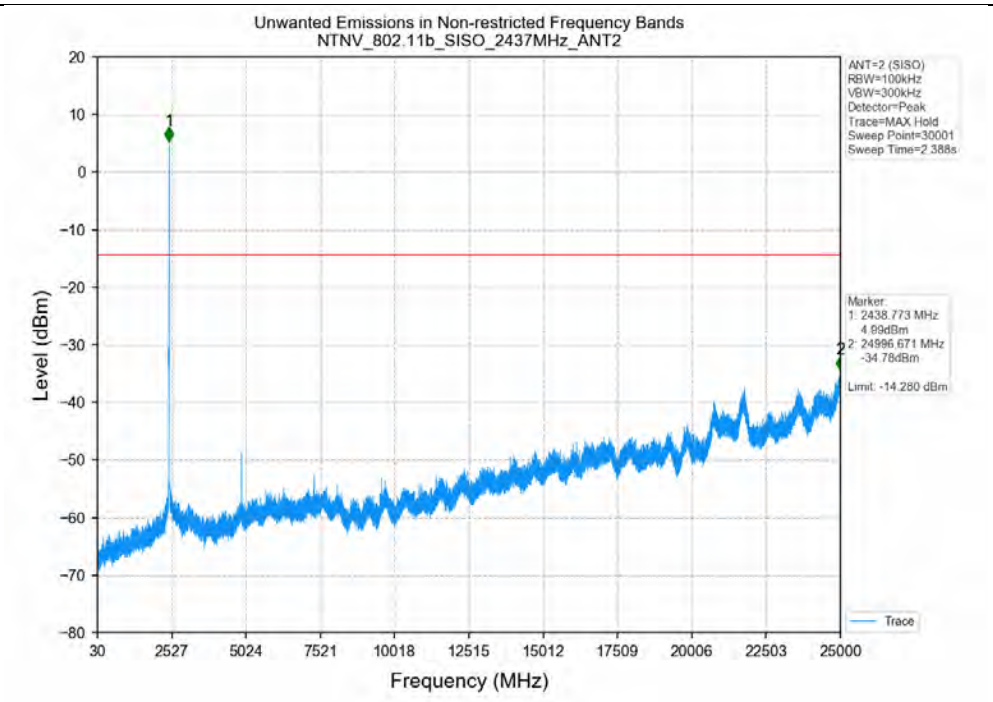

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11b_SISO_2412MHz_ANT1
ANT=1 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=12ms
Marker:
1: 2411.016 MHz
4.01dBm
Limit: -14.280 dBm
Trace
Level (dBm)
Frequency (MHz)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2310.0
2322.2
2334.4
2346.6
2358.8
2371.0
2383.2
2395.4
2407.6
2419.8
2432.0

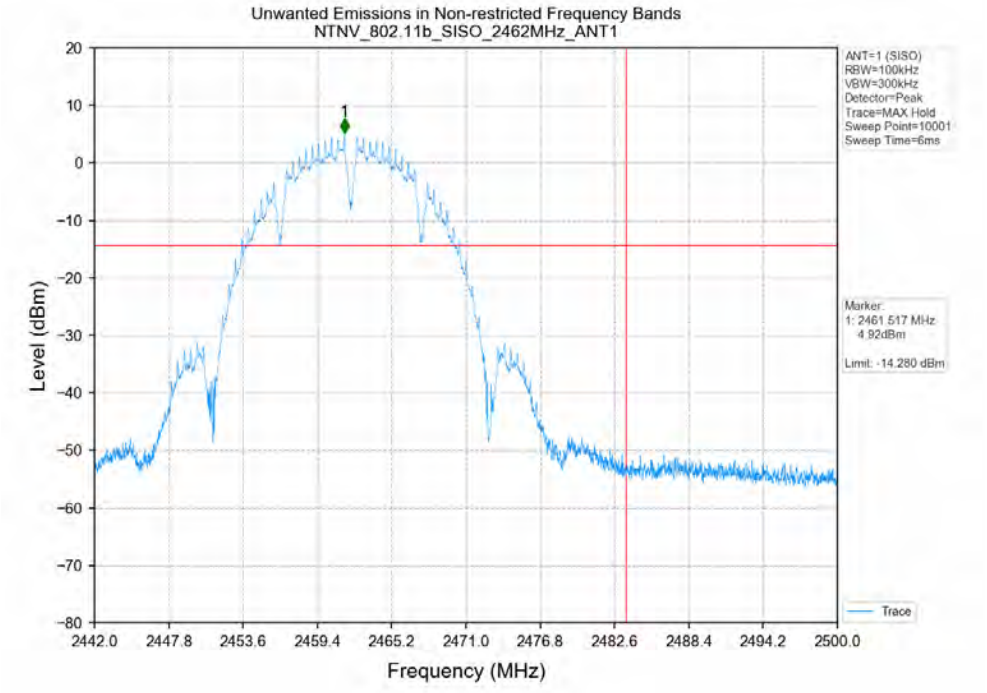

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11b_SISO_2412MHz_ANT1
ANT=1 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2413.803 MHz
3.06dBm
2: 24999.166 MHz
-29.92dBm
Limit: -14.280 dBm
Trace
Level (dBm)
Frequency (MHz)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000

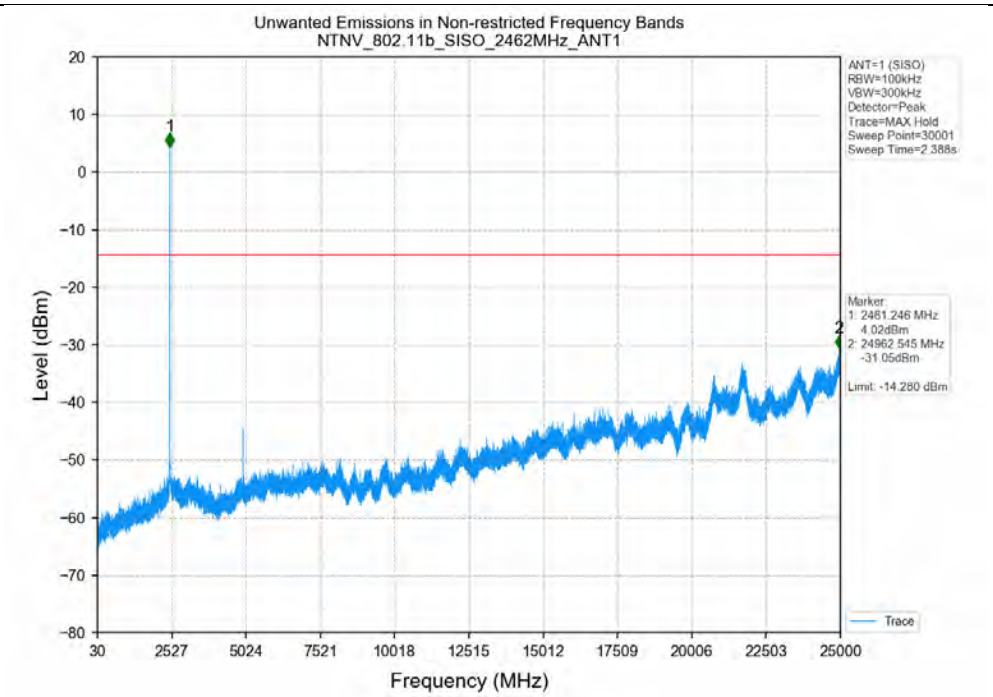

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11b_SISO_2412MHz_ANT2
ANT=2 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=12ms
Marker:
1: 2411.504 MHz
5.58dBm
Limit: -14.280 dBm
Trace
Level (dBm)
Frequency (MHz)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2310.0
2322.2
2334.4
2346.6
2358.8
2371.0
2383.2
2395.4
2407.6
2419.8
2432.0

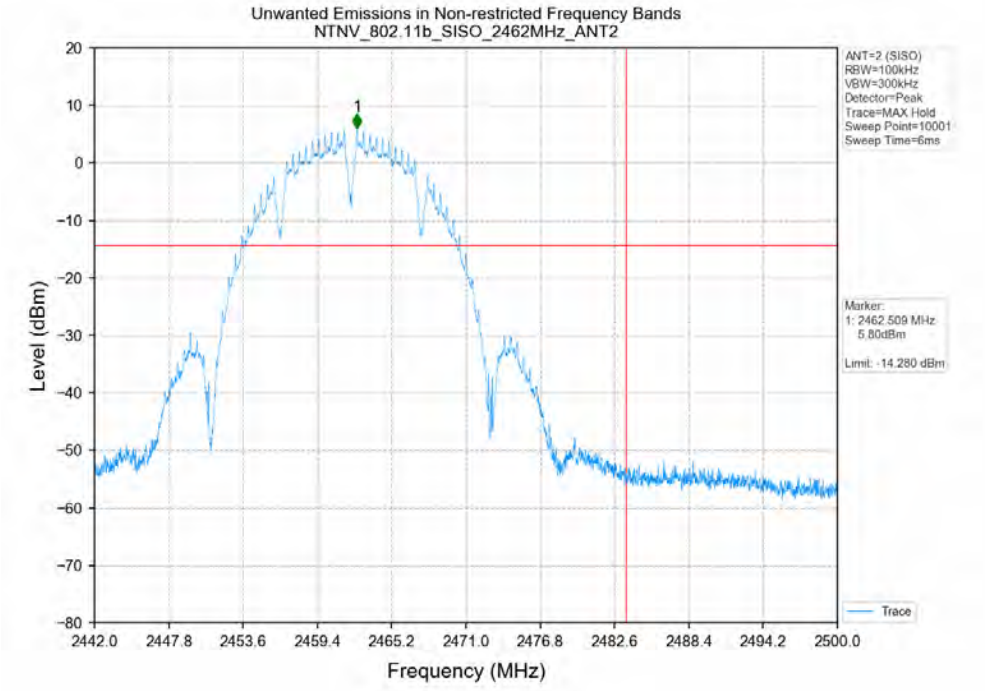

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11b_SISO_2412MHz_ANT2
ANT=2 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2399.653 MHz
-31.75dBm
2: 2411.306 MHz
5.24dBm
Limit: -14.280 dBm
Trace
Level (dBm)
Frequency (MHz)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000

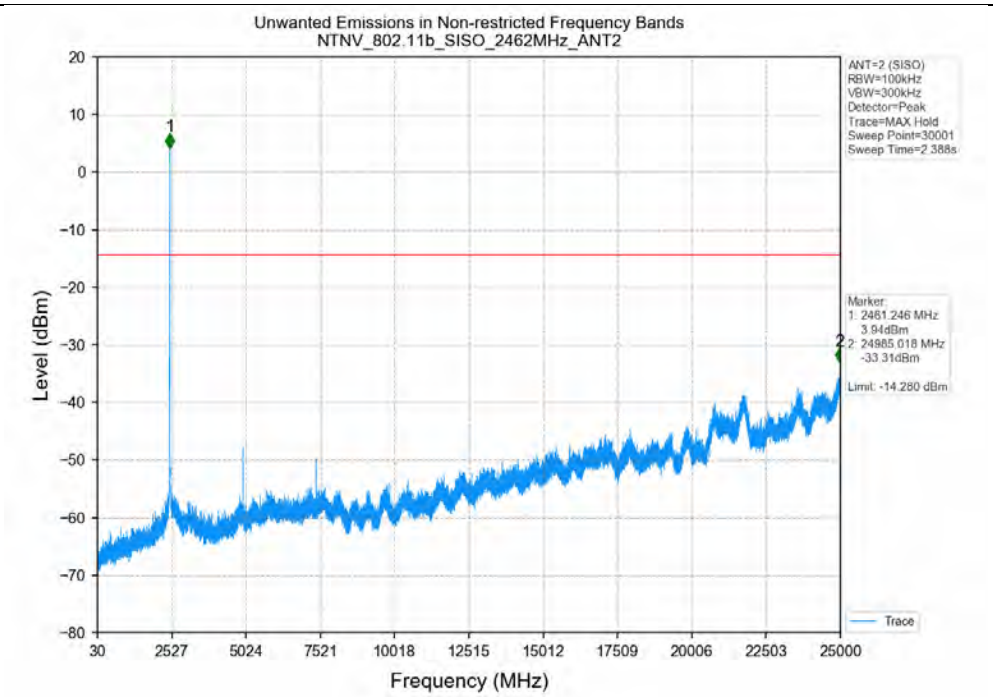

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11b_SISO_2437MHz_ANT1
ANT=1 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2437.108 MHz
3.28dBm
2: 24955.054 MHz
-30.68dBm
Limit: -14.280 dBm
Trace
Level (dBm)
Frequency (MHz)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000

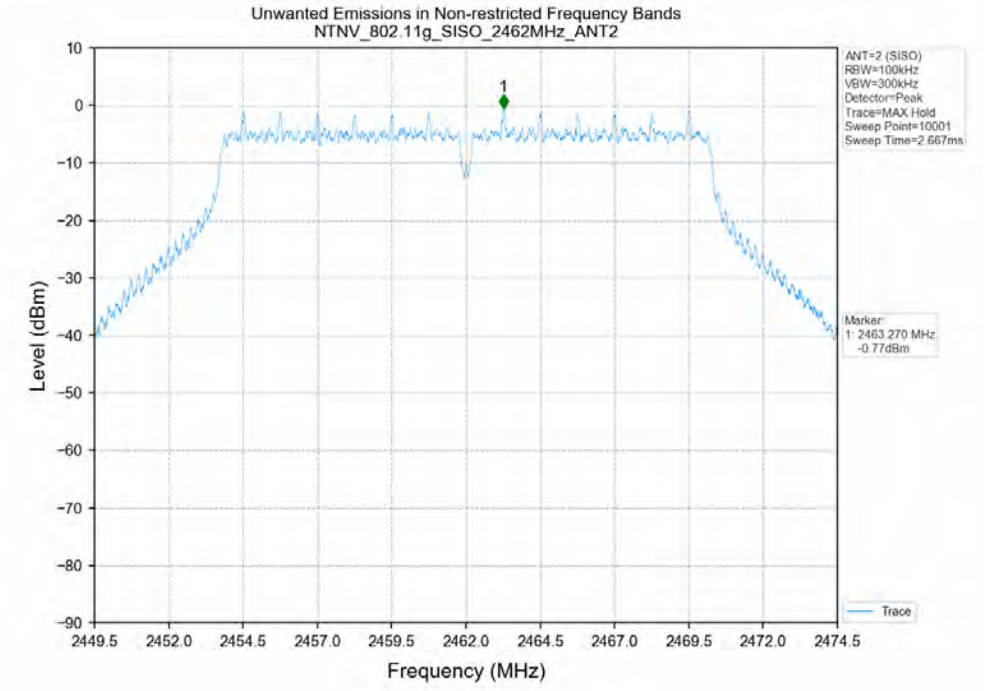

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11b_SISO_2437MHz_ANT2
ANT=2 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker
1: 2438.773 MHz
4.89dBm
2: 24996.671 MHz
-34.78dBm
Limit: -14.280 dBm
Trace
Level (dBm)
Frequency (MHz)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000

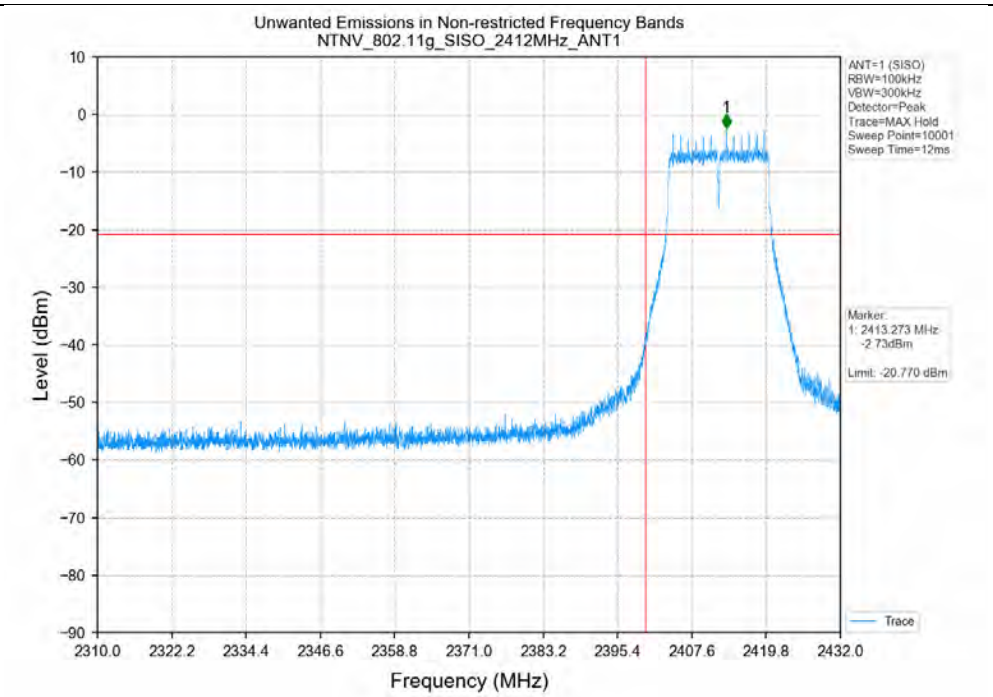

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11b_SISO_2462MHz_ANT1
ANT=1 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=6ms
Marker
1: 2461.517 MHz
4.92dBm
Limit: -14.280 dBm
Trace
Level (dBm)
Frequency (MHz)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2442.0
2447.8
2453.6
2459.4
2465.2
2471.0
2476.8
2482.6
2488.4
2494.2
2500.0

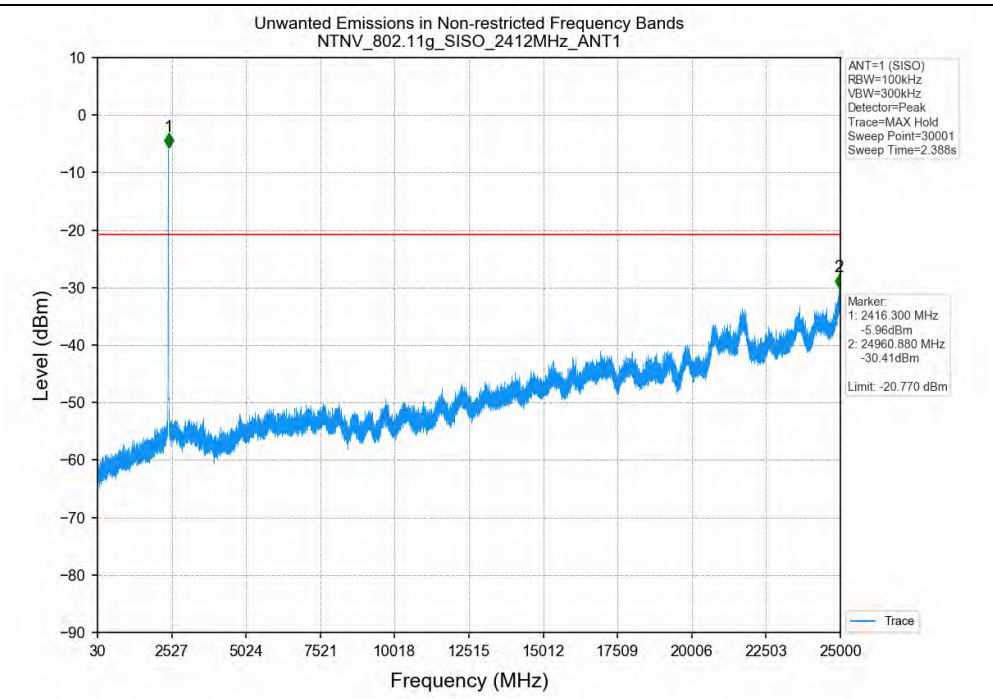

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11b_SISO_2462MHz_ANT1
ANT=1 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2461.246 MHz
4.02dBm
2: 24962.545 MHz
-31.05dBm
Limit: -14.280 dBm
Trace
Level (dBm)
Frequency (MHz)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000

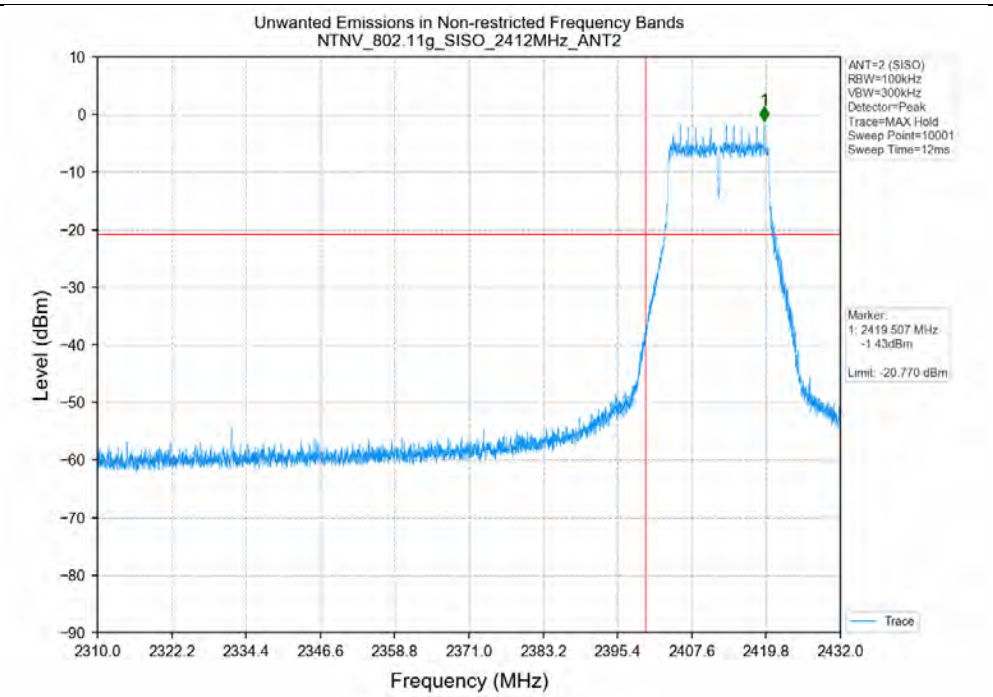

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11b_SISO_2462MHz_ANT2
ANT=2 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=6ms
Marker:
1: 2462.509 MHz
5.80dBm
Limit: -14.280 dBm
Trace
Level (dBm)
Frequency (MHz)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
2442.0
2447.8
2453.6
2459.4
2465.2
2471.0
2476.8
2482.6
2488.4
2494.2
2500.0

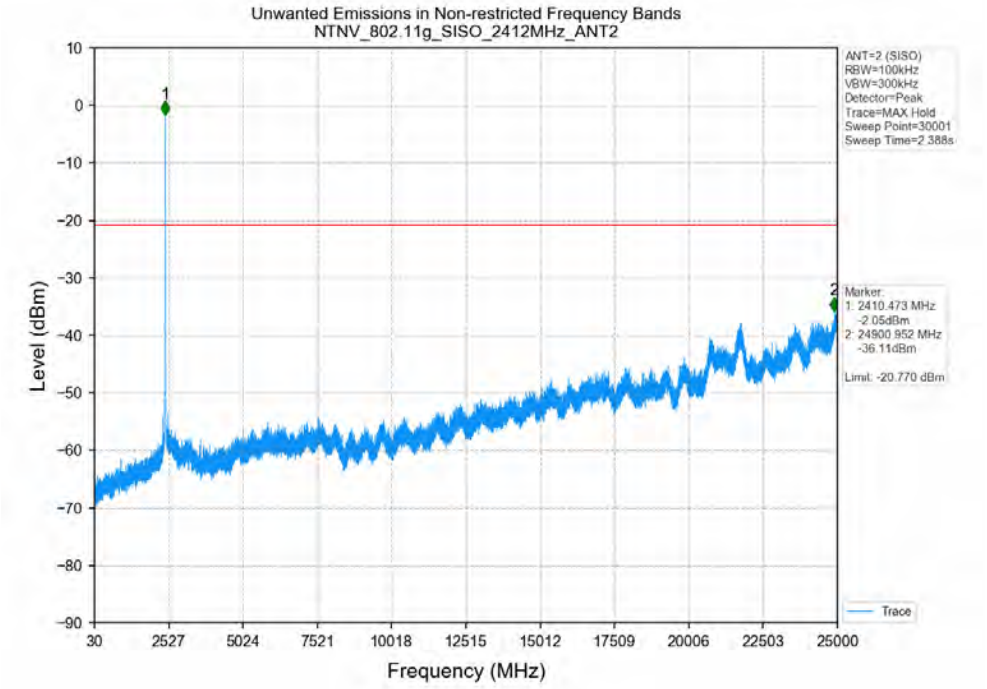

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11b_SISO_2462MHz_ANT2
ANT=2 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2461.246 MHz
3.94dBm
2: 24985.018 MHz
-33.31dBm
Limit: -14.280 dBm
Trace
Level (dBm)
Frequency (MHz)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000

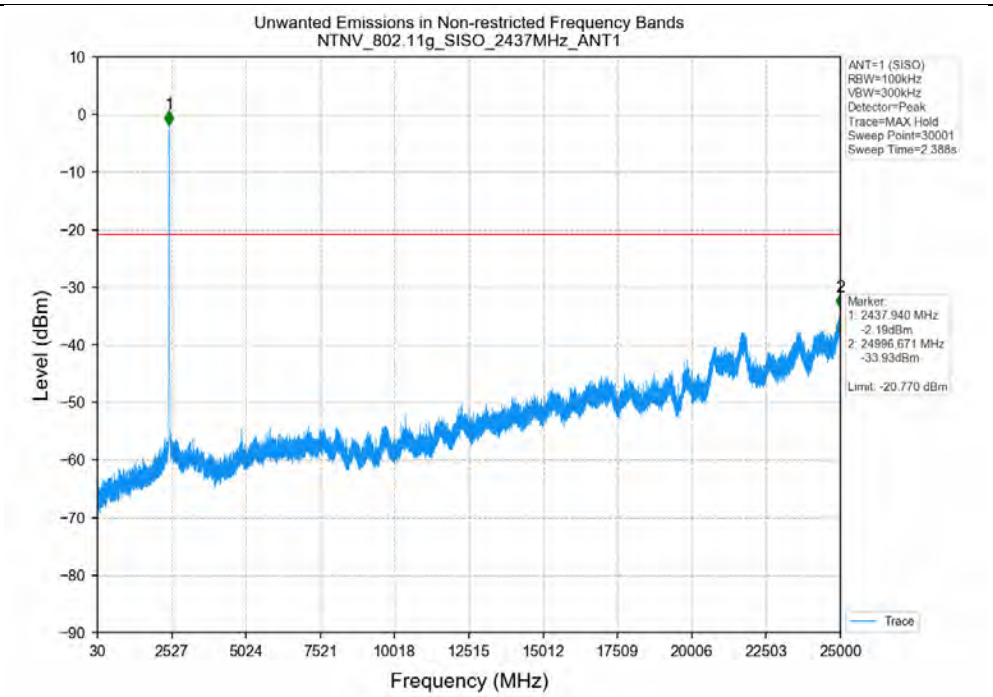

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11g_SISO_2462MHz_ANT2
ANT=2 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=2.667ms
Marker:
1: 2463.270 MHz
-0.77dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
2449.5
2452.0
2454.5
2457.0
2459.5
2462.0
2464.5
2467.0
2469.5
2472.0
2474.5

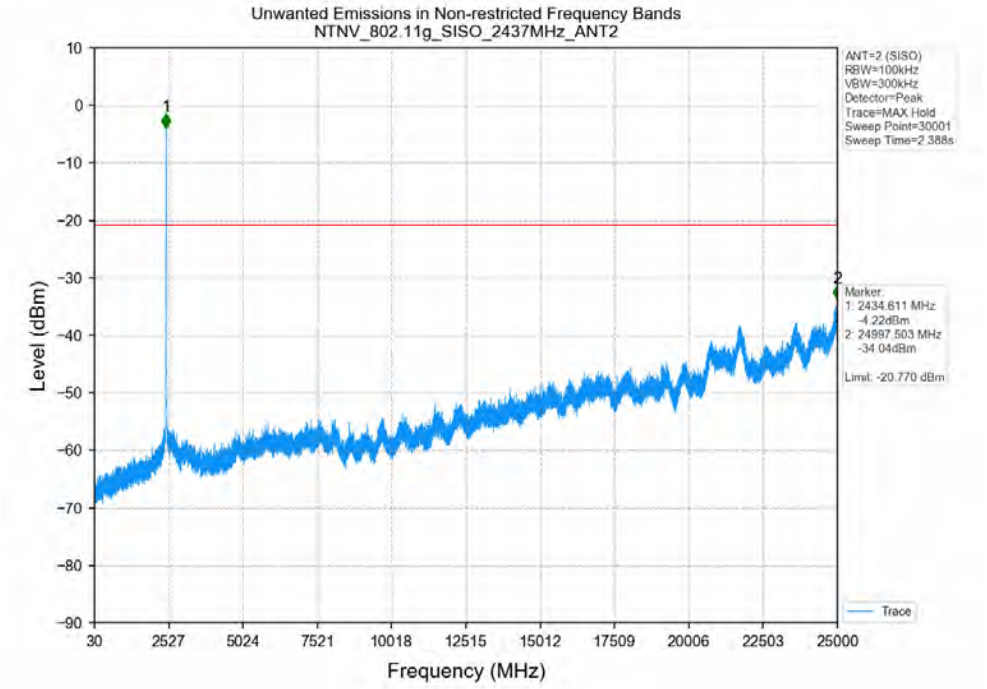

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11g_SISO_2412MHz_ANT1
ANT=1 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=12ms
Marker:
1: 2413.273 MHz
-2.73dBm
Limit: -20.770 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
2310.0
2322.2
2334.4
2346.6
2358.8
2371.0
2383.2
2395.4
2407.6
2419.8
2432.0

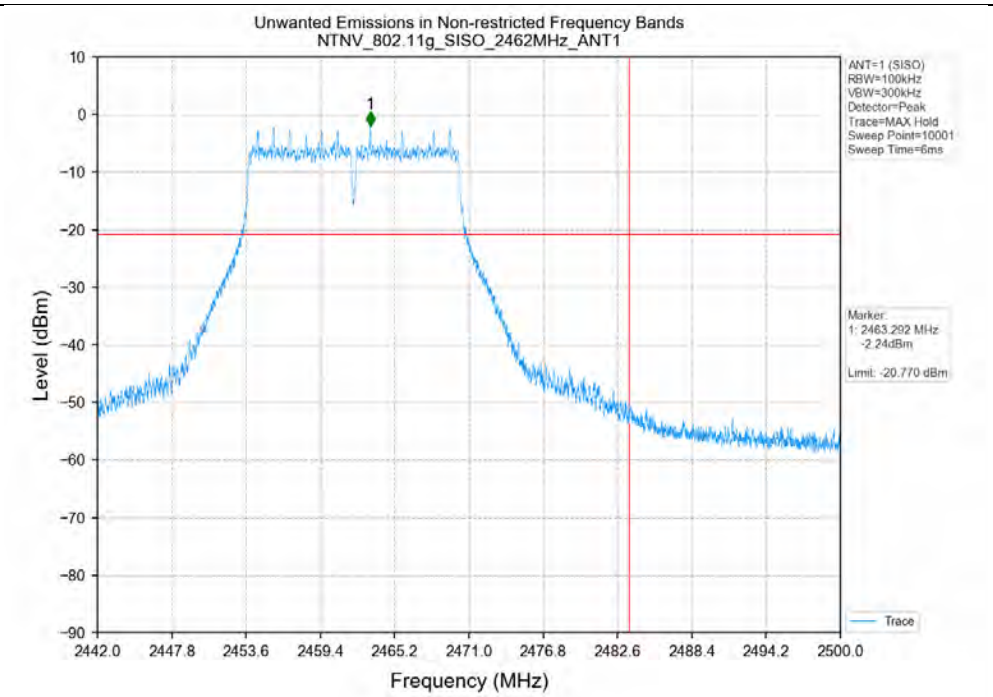

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11g_SISO_2412MHz_ANT1
ANT=1 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2416.300 MHz
-5.96dBm
2: 24960.880 MHz
-30.41dBm
Limit: -20.770 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000

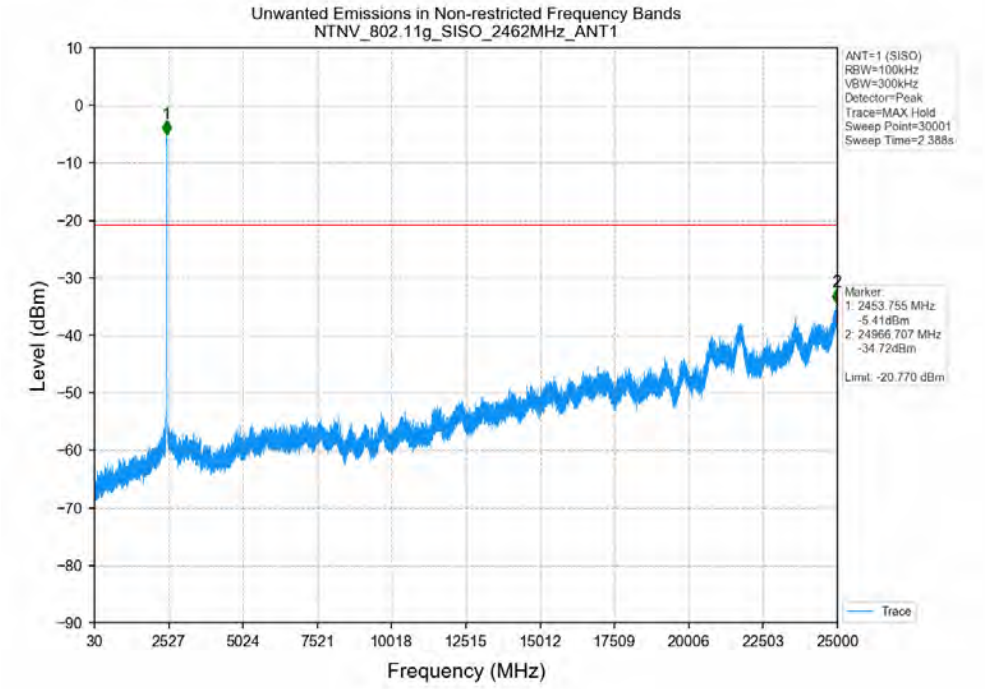

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11g_SISO_2412MHz_ANT2
ANT=2 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=12ms
Marker:
1: 2419.507 MHz
-1.43dBm
Limit: -20.770 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
2310.0
2322.2
2334.4
2346.6
2358.8
2371.0
2383.2
2395.4
2407.6
2419.8
2432.0

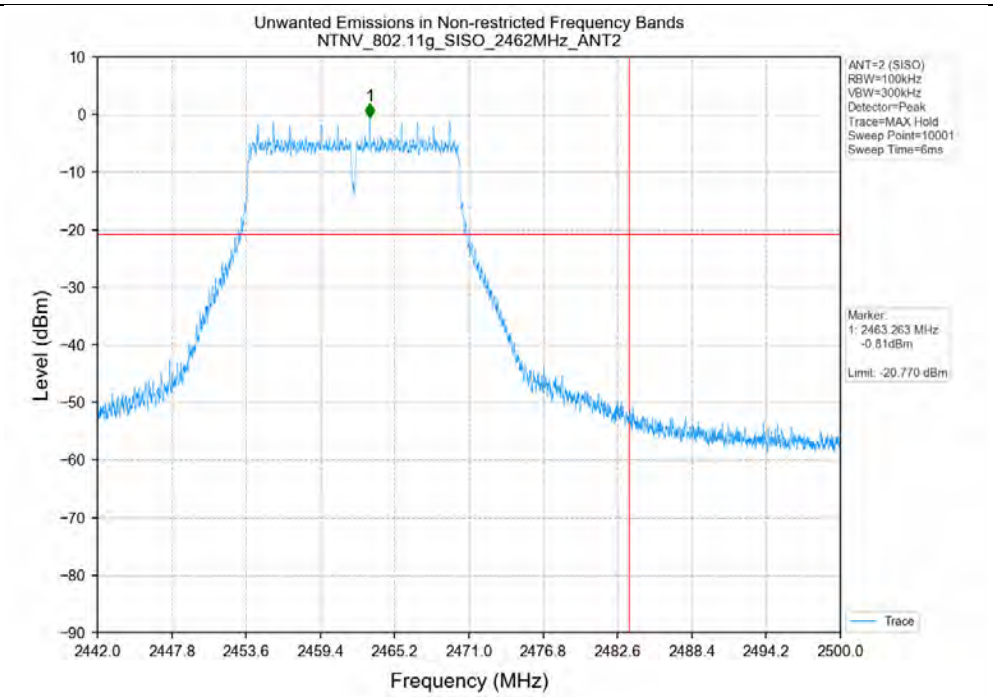

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11g_SISO_2412MHz_ANT2
ANT=2 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2410.473 MHz
-2.05dBm
2: 24900.952 MHz
-36.11dBm
Limit: -20.770 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000

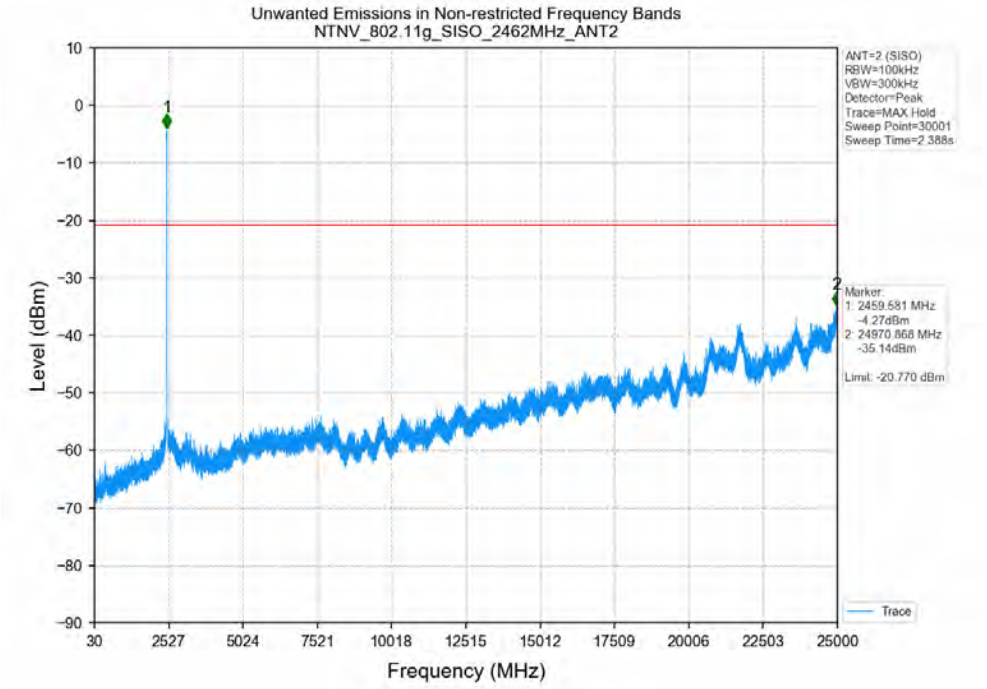

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11g_SISO_2437MHz_ANT1
ANT=1 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2437.940 MHz
-2.19dBm
2: 24986.671 MHz
-33.93dBm
Limit: -20.770 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000

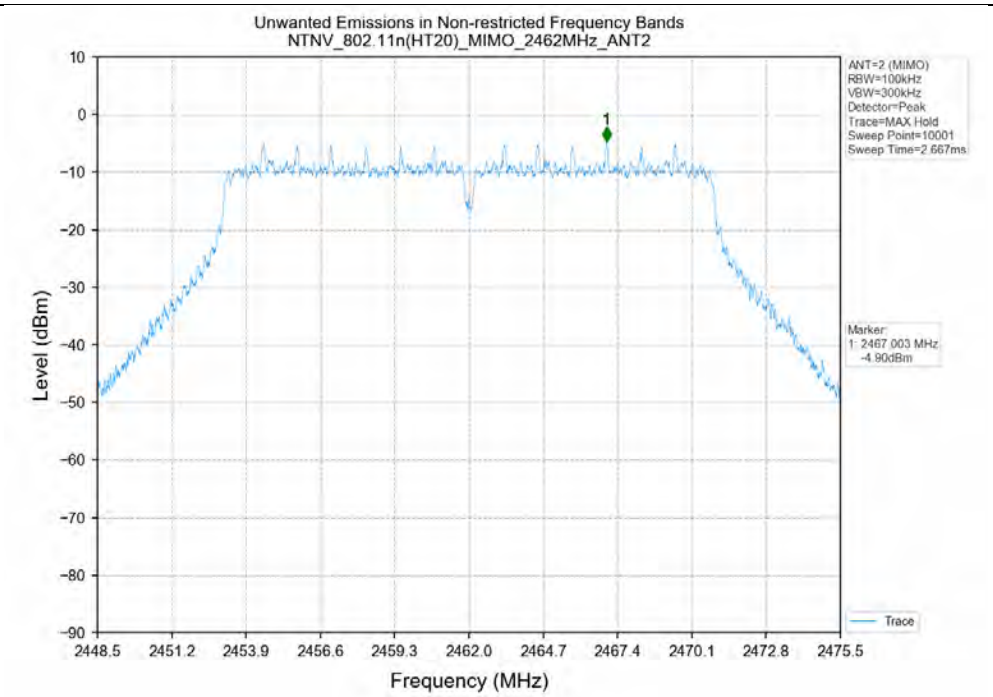

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11g_SISO_2437MHz_ANT2
ANT=2 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2434.611 MHz
-4.22dBm
2: 24997.503 MHz
-34.04dBm
Limit: -20.770 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000

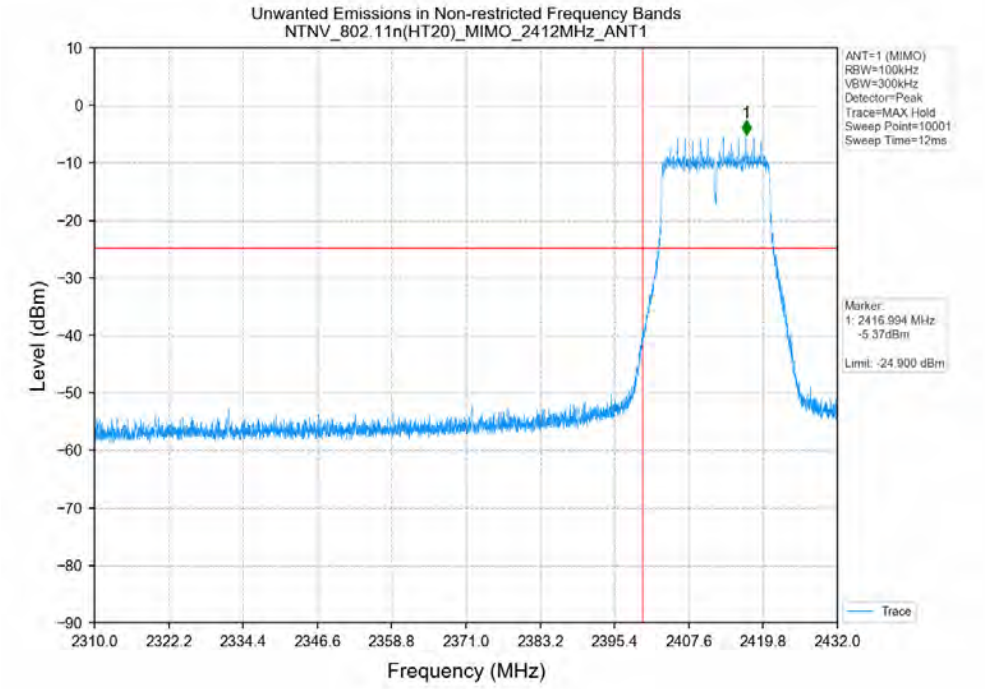

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11g_SISO_2462MHz_ANT1
ANT=1 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=6ms
Marker:
1: 2463.292 MHz
-2.24dBm
Limit: -20.770 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
2442.0
2447.8
2453.6
2459.4
2465.2
2471.0
2476.8
2482.6
2488.4
2494.2
2500.0

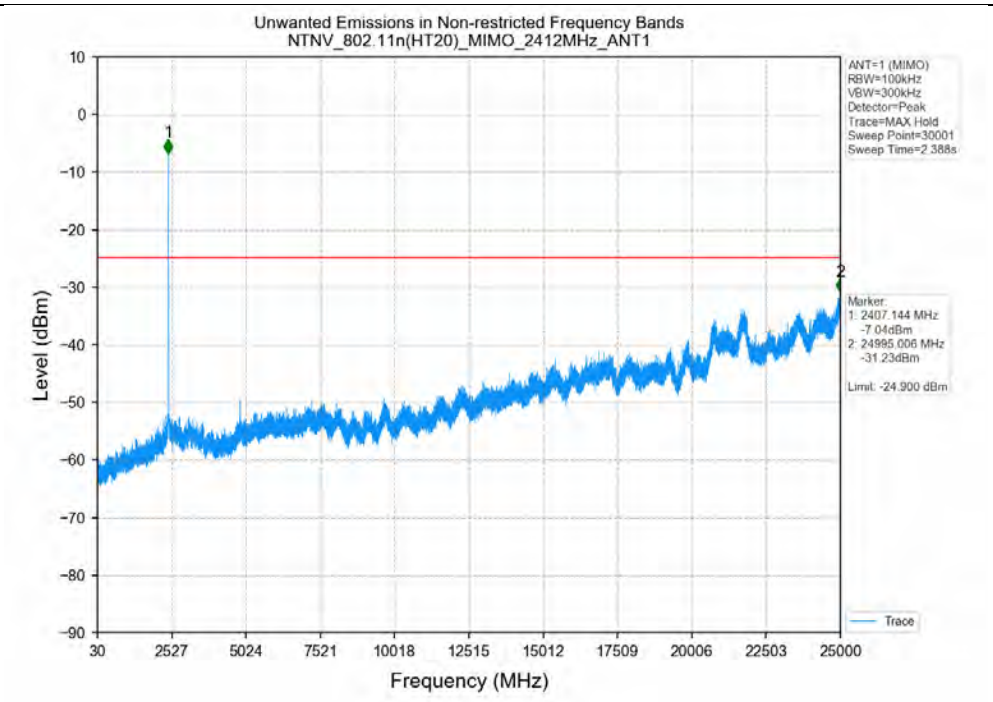

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11g_SISO_2462MHz_ANT1
ANT=1 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2453.755 MHz
-5.41dBm
2: 24966.707 MHz
-34.72dBm
Limit: -20.770 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000

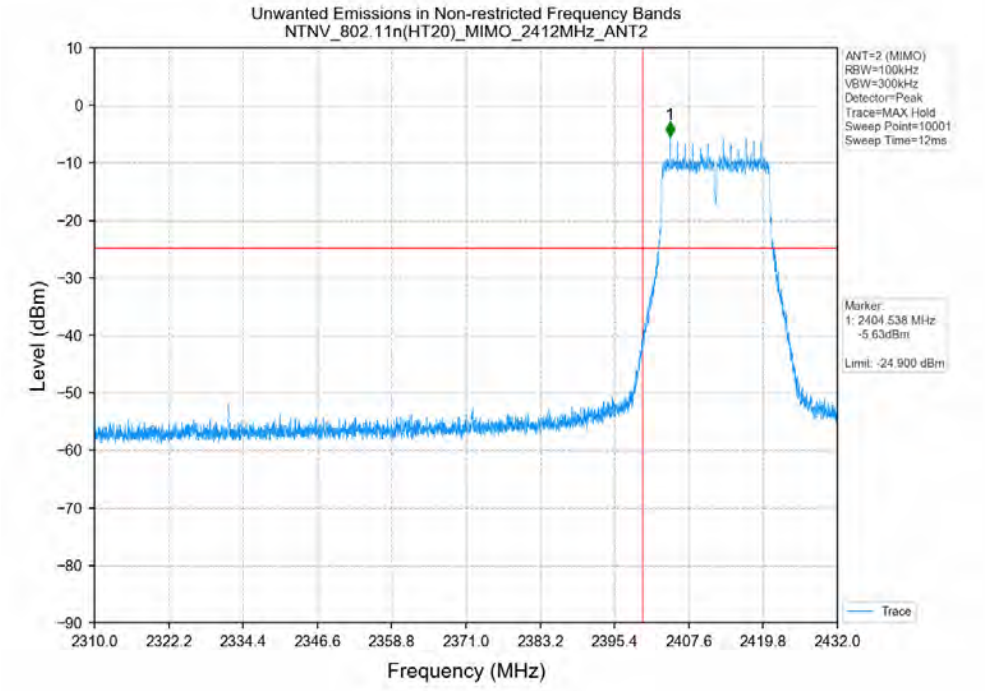

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11g_SISO_2462MHz_ANT2
ANT=2 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=6ms
Marker
1: 2463.263 MHz
-0.81dBm
Limit: -20.770 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
2442.0
2447.8
2453.6
2459.4
2465.2
2471.0
2476.8
2482.6
2488.4
2494.2
2500.0

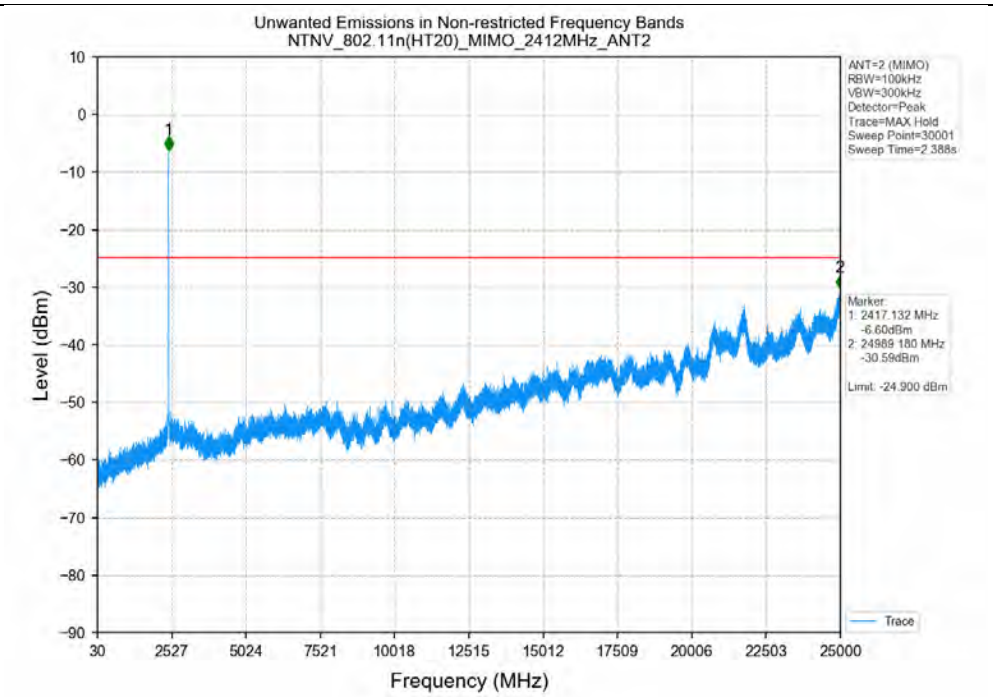

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11g_SISO_2462MHz_ANT2
ANT=2 (SISO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker
1: 2459.581 MHz
-4.27dBm
2: 24970.868 MHz
-35.14dBm
Limit: -20.770 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000

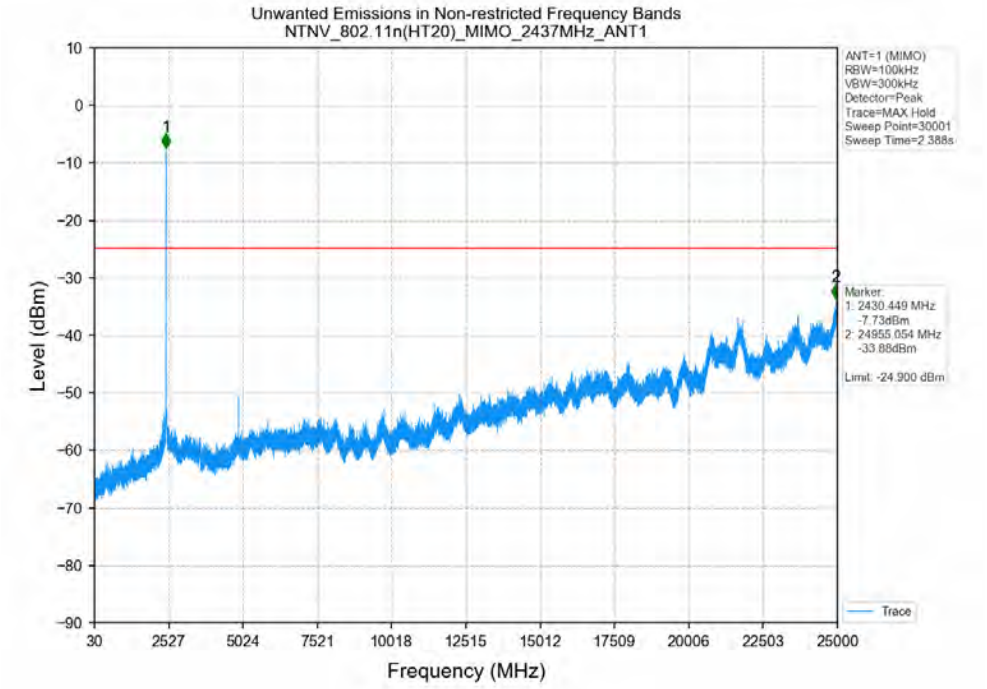

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2462MHz_ANT2
ANT=2 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=2.667ms
Marker:
1: 2467.003 MHz
-4.90dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
2448.5
2451.2
2453.9
2456.6
2459.3
2462.0
2464.7
2467.4
2470.1
2472.8
2475.5

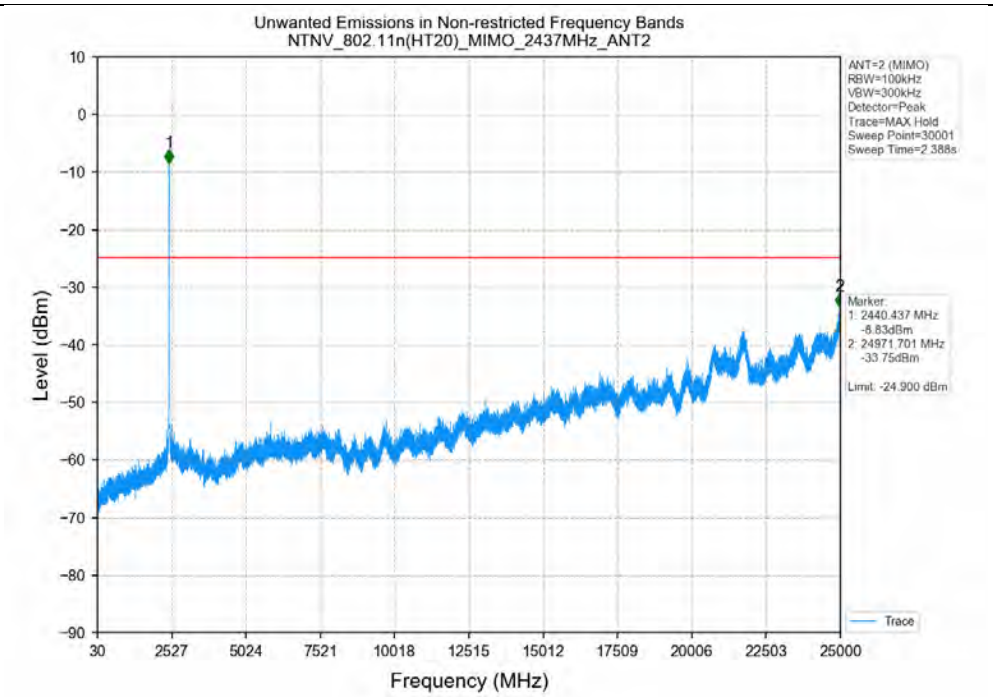

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2412MHz_ANT1
ANT=1 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=12ms
Marker:
1: 2416.994 MHz
-5.37dBm
Limit: -24.900 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
2310.0
2322.2
2334.4
2346.6
2358.8
2371.0
2383.2
2395.4
2407.6
2419.8
2432.0

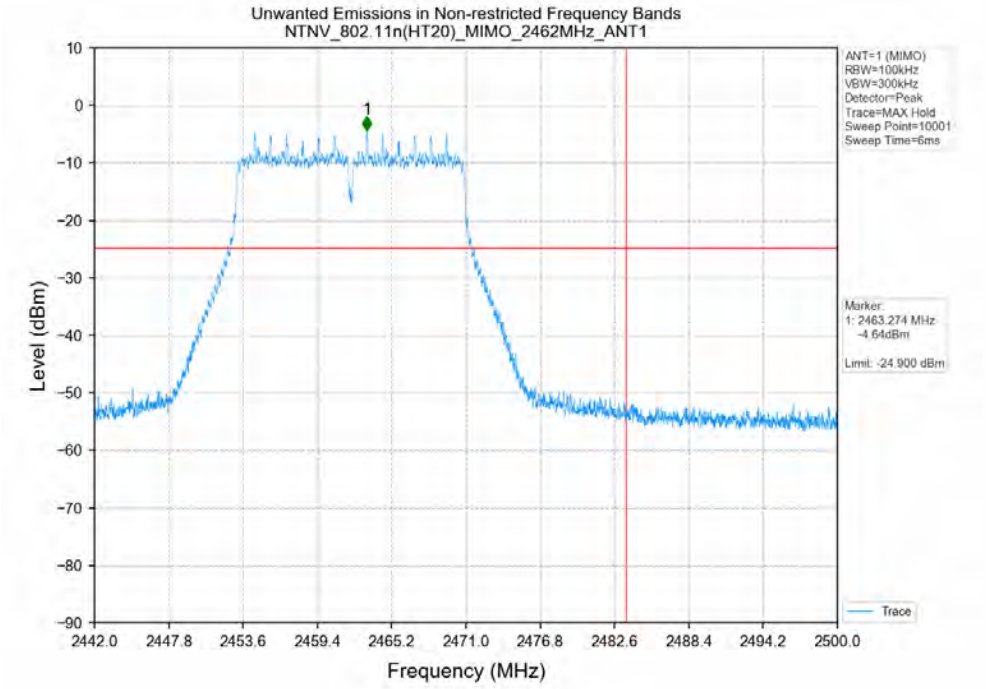

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2412MHz_ANT1
ANT=1 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2407.144 MHz
-7.04dBm
2: 24995.006 MHz
-31.23dBm
Limit: -24.900 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000

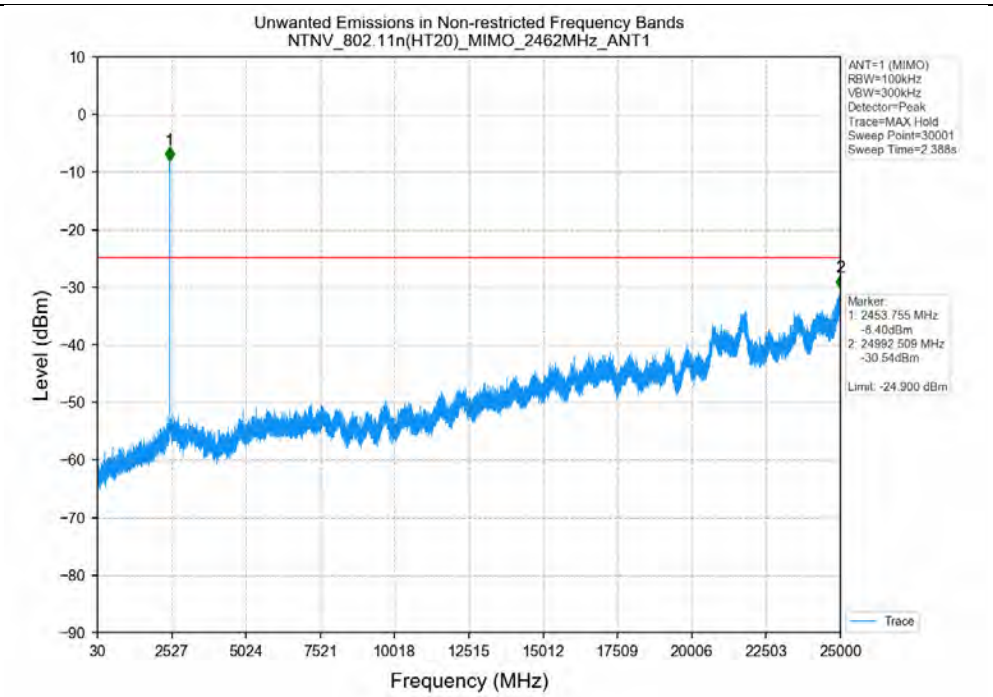

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2412MHz_ANT2
ANT=2 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=12ms
Marker:
1: 2404.538 MHz
-5.63dBm
Limit: -24.900 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
2310.0
2322.2
2334.4
2346.6
2358.8
2371.0
2383.2
2395.4
2407.6
2419.8
2432.0

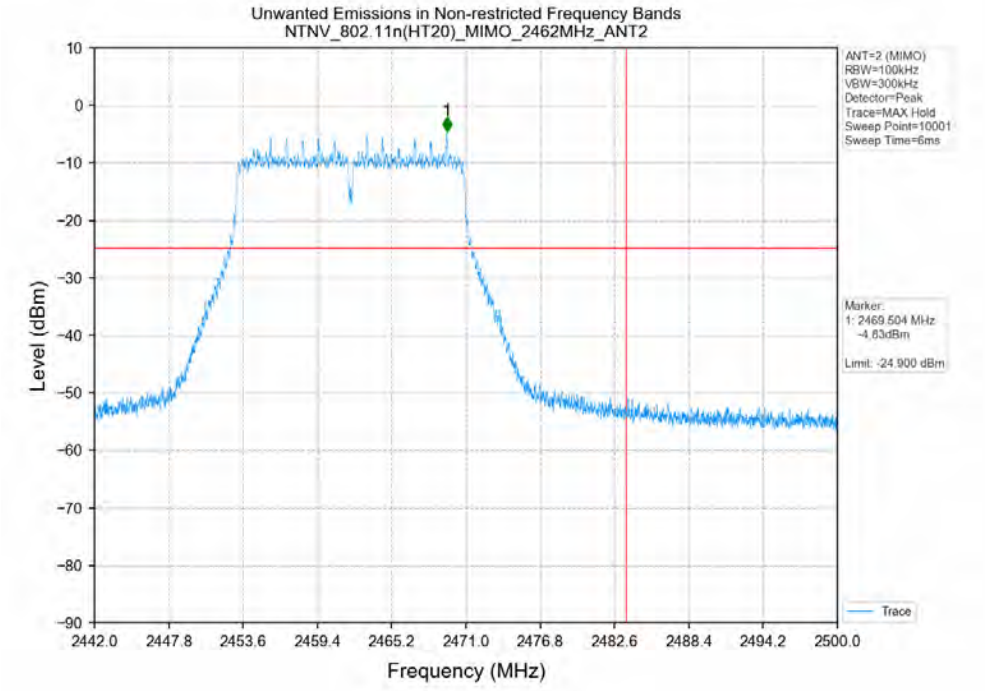

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2412MHz_ANT2
ANT=2 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker
1: 2417.132 MHz
-6.60dBm
2: 24989.180 MHz
-30.59dBm
Limit: -24.900 dBm
Trace
Level (dBm)
Frequency (MHz)

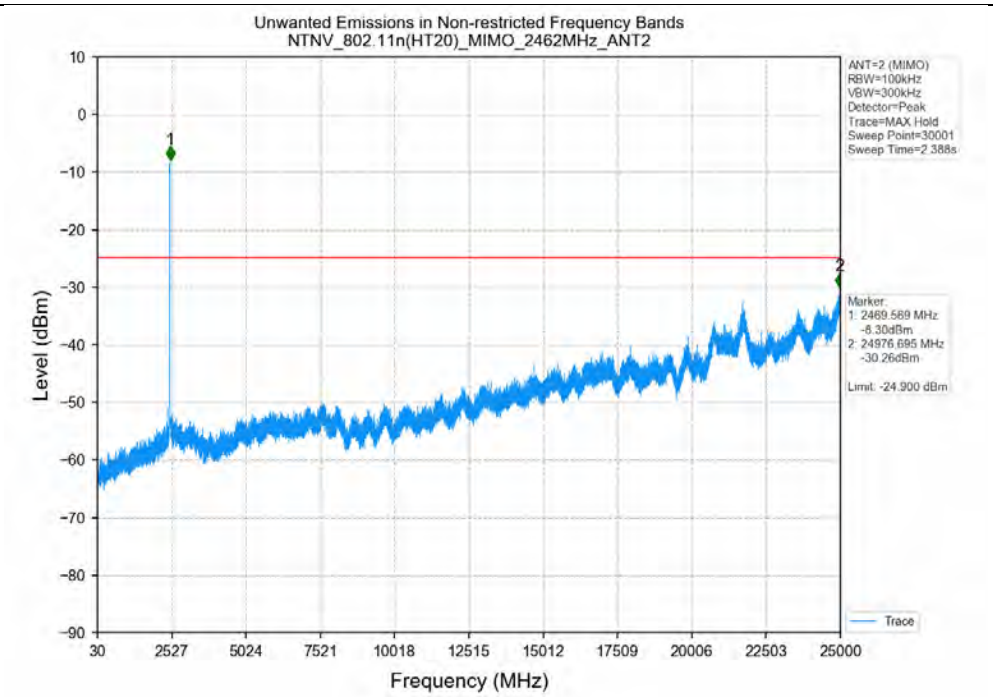

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2437MHz_ANT1
ANT=1 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker
1: 2430.449 MHz
-7.73dBm
2: 24955.054 MHz
-33.88dBm
Limit: -24.900 dBm
Trace
Level (dBm)
Frequency (MHz)

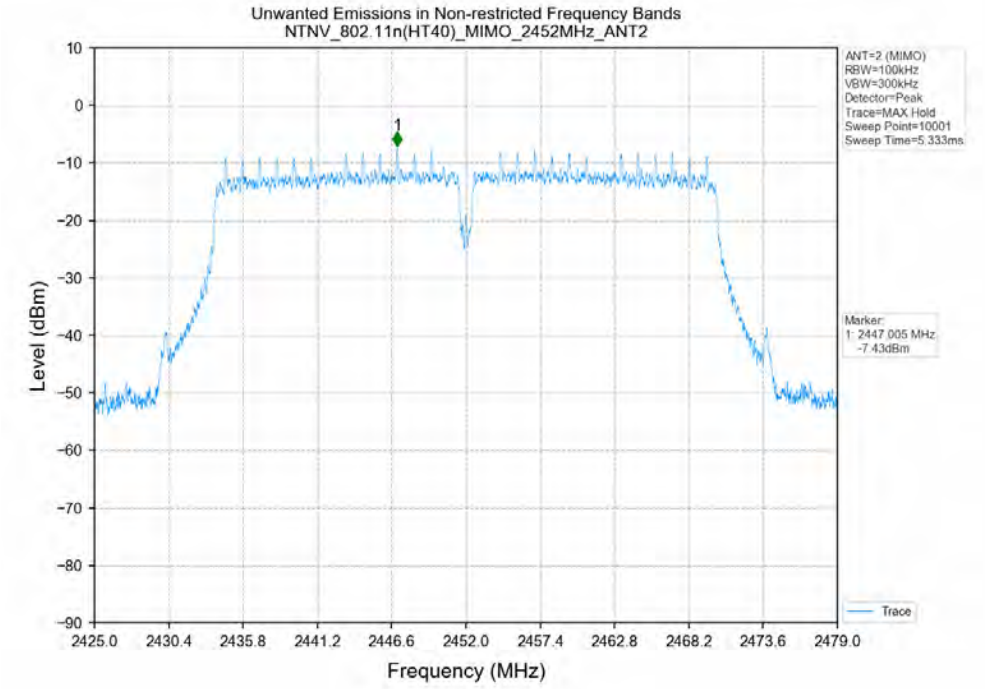

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2437MHz_ANT2
ANT=2 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2440.437 MHz
-6.83dBm
2: 24971.701 MHz
-33.75dBm
Limit: -24.900 dBm
Trace
Level (dBm)
Frequency (MHz)

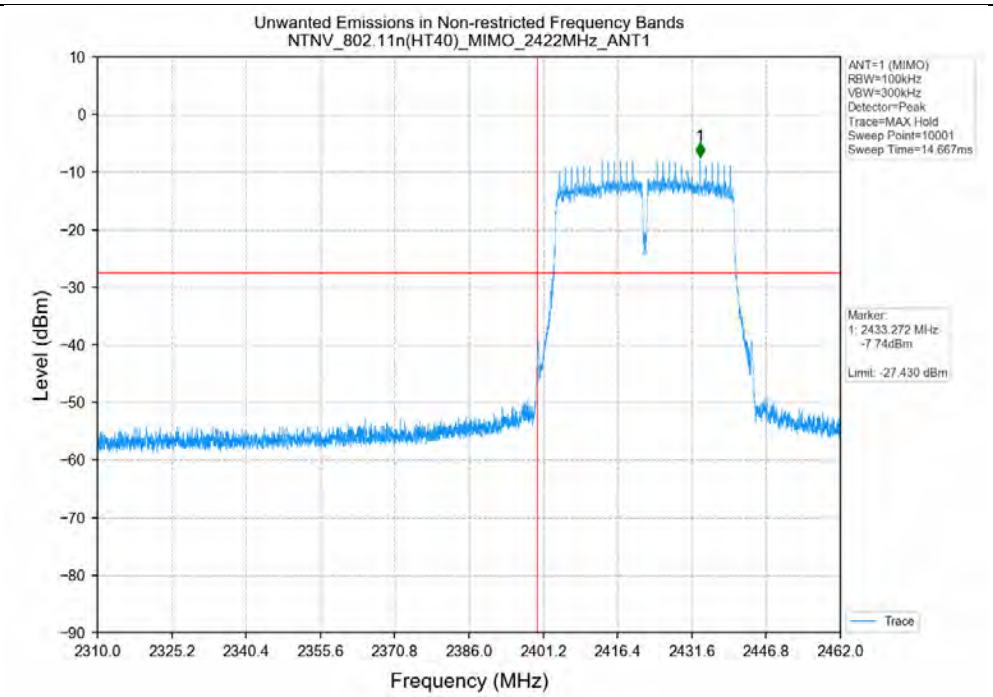

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2462MHz_ANT1
ANT=1 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=6ms
Marker:
1: 2463.274 MHz
-4.64dBm
Limit: -24.900 dBm
Trace
Level (dBm)
Frequency (MHz)

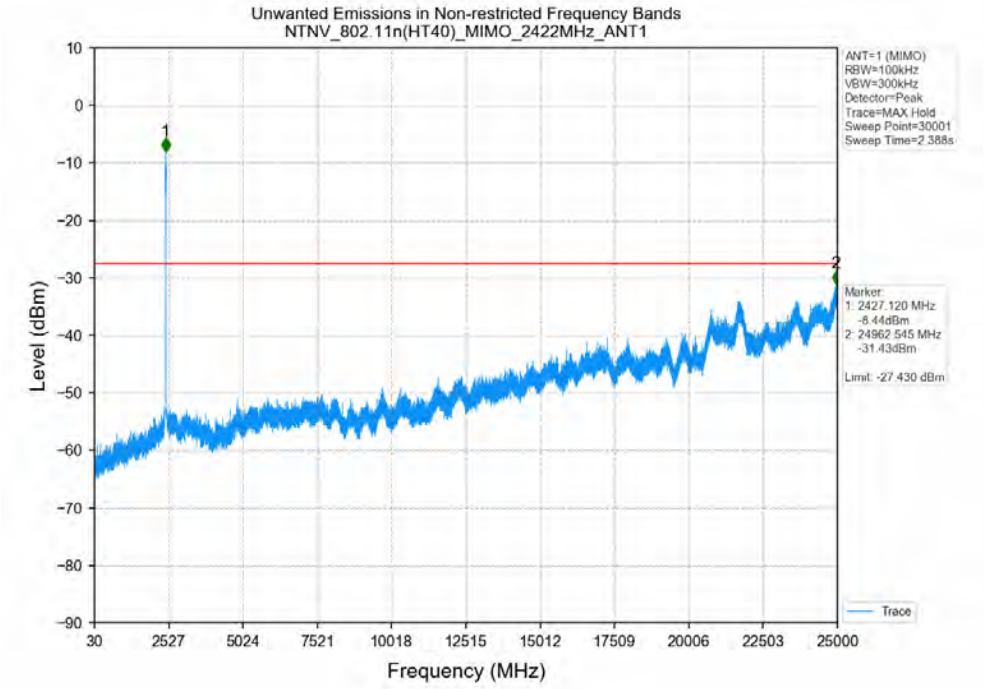

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2462MHz_ANT1
ANT=1 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2453.755 MHz
-6.40dBm
2: 24992.509 MHz
-30.54dBm
Limit: -24.900 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000

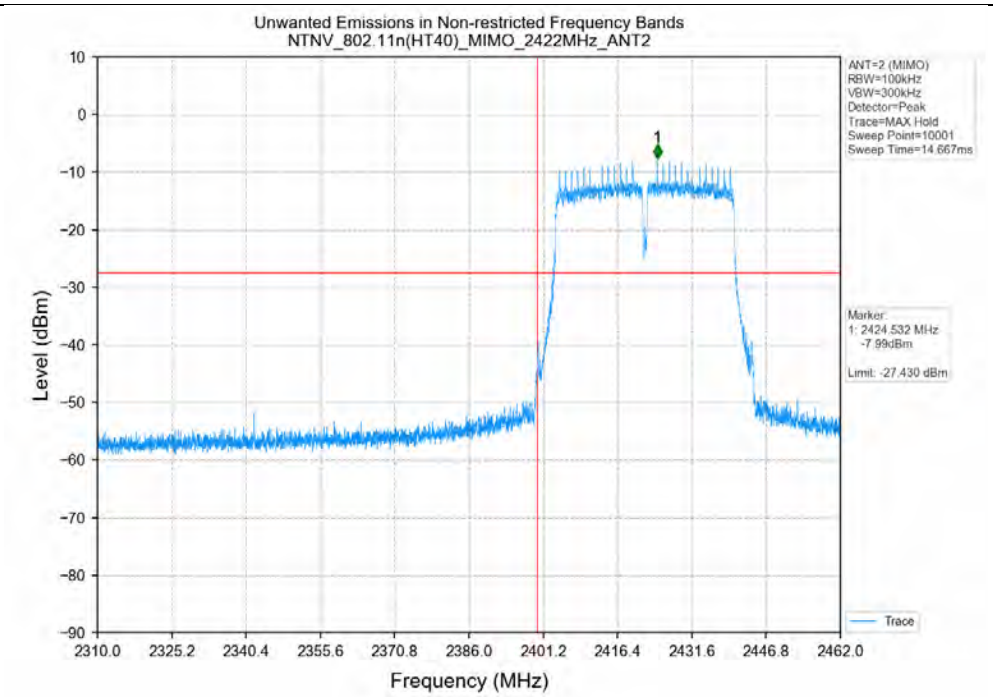

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2462MHz_ANT2
ANT=2 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=6ms
Marker:
1: 2469.504 MHz
-4.63dBm
Limit: -24.900 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
2442.0
2447.8
2453.6
2459.4
2465.2
2471.0
2476.8
2482.6
2488.4
2494.2
2500.0

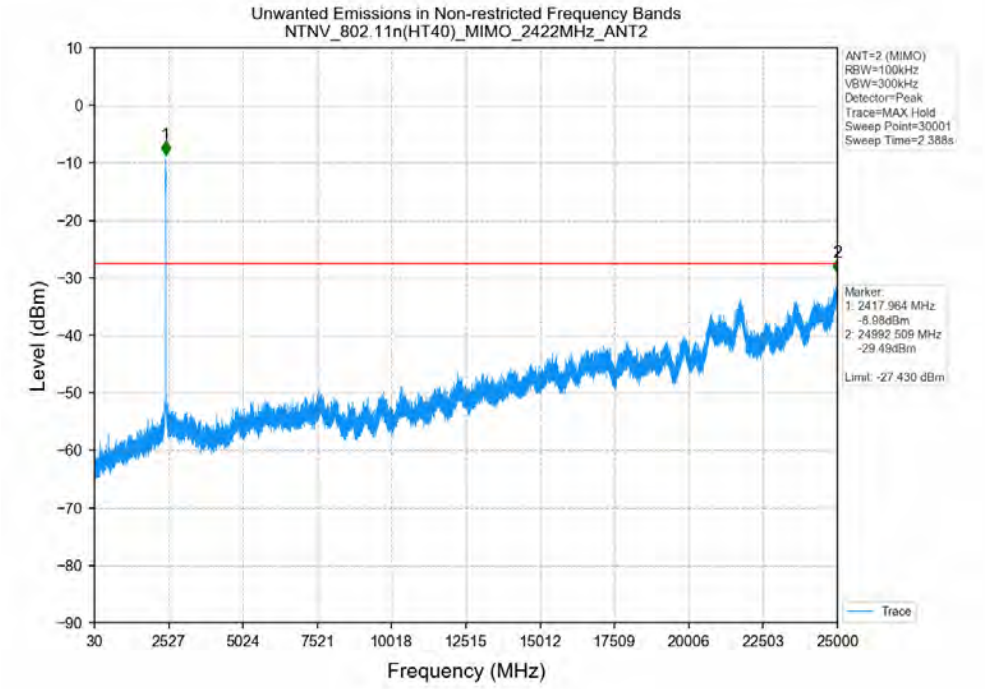

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT20)_MIMO_2462MHz_ANT2
ANT=2 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2469.589 MHz
-6.30dBm
2: 24976.695 MHz
-30.26dBm
Limit: -24.900 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000

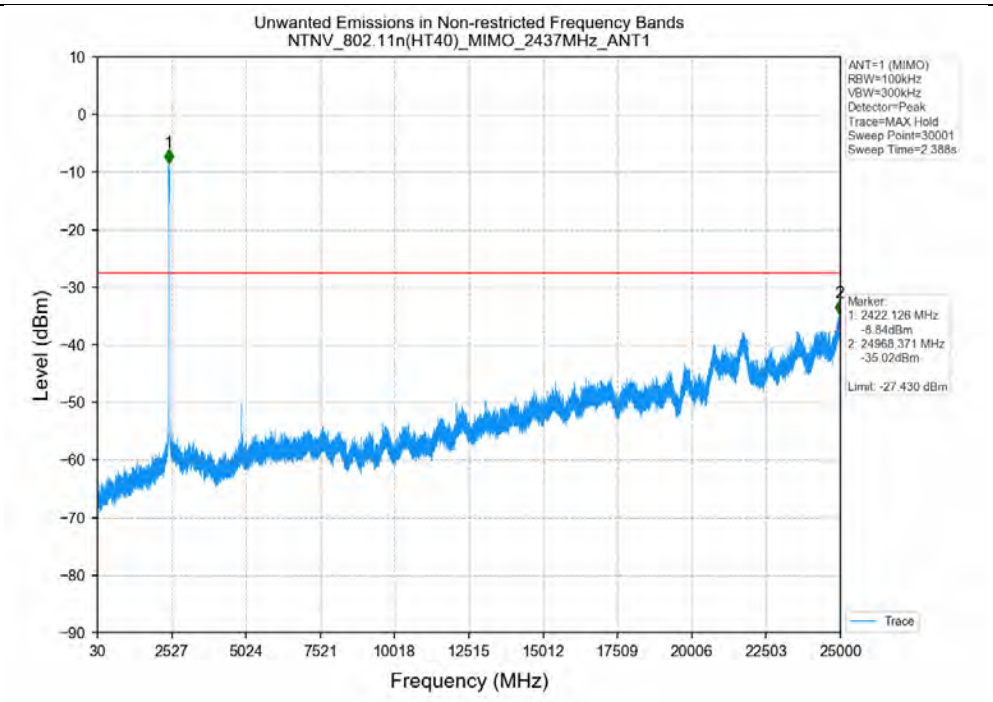

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT40)_MIMO_2452MHz_ANT2
ANT=2 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=5.333ms
Marker:
1: 2447.005 MHz
-7.43dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
2425.0
2430.4
2435.8
2441.2
2446.6
2452.0
2457.4
2462.8
2468.2
2473.6
2479.0

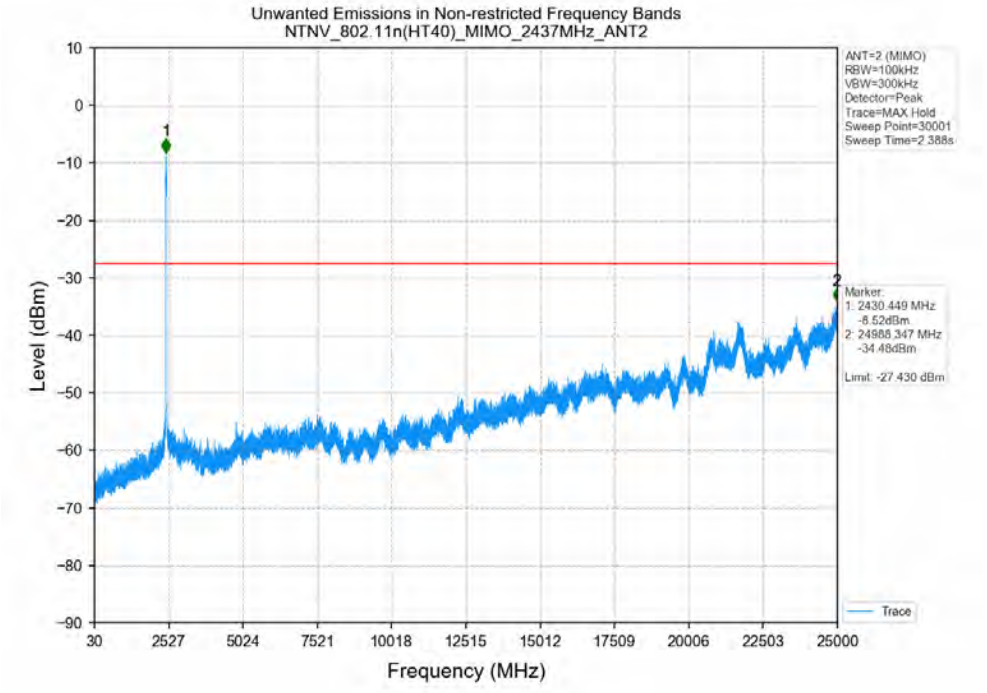

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT40)_MIMO_2422MHz_ANT1
ANT=1 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=14.667ms
Marker:
1: 2433.272 MHz
-7.74dBm
Limit: -27.430 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
2310.0
2325.2
2340.4
2355.6
2370.8
2386.0
2401.2
2416.4
2431.6
2446.8
2462.0

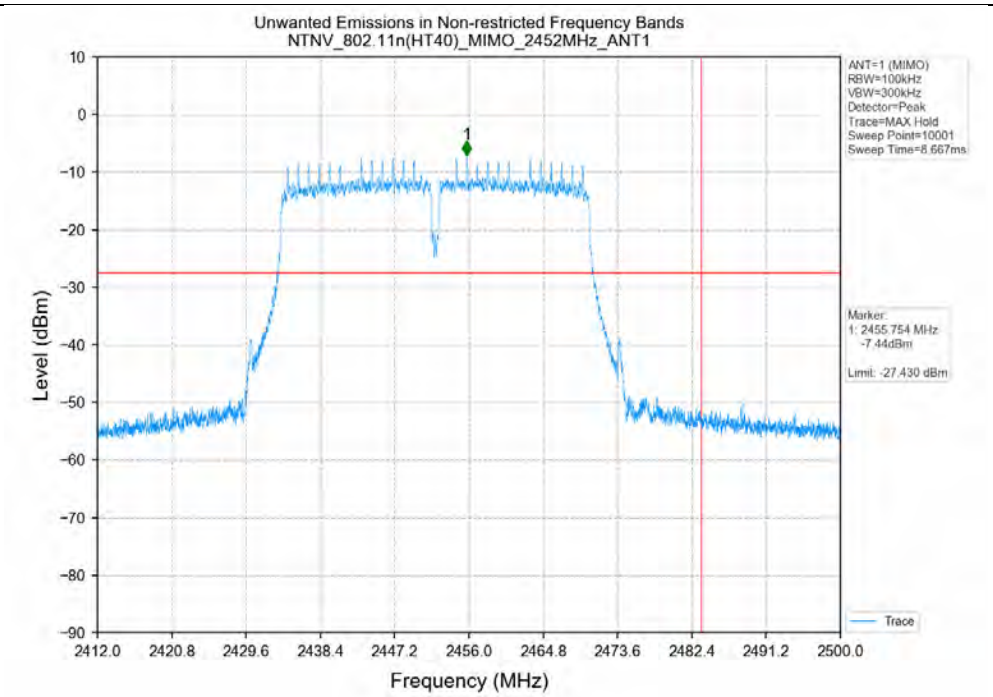

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT40)_MIMO_2422MHz_ANT1
ANT=1 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2427.120 MHz
-6.44dBm
2: 24962.545 MHz
-31.43dBm
Limit: -27.430 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000

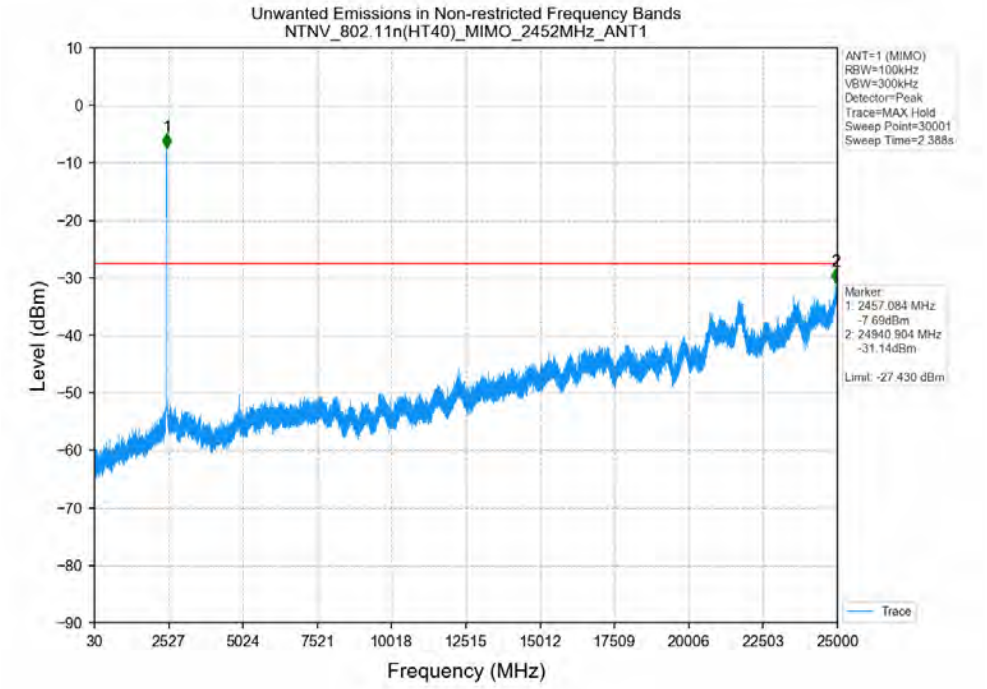

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT40)_MIMO_2422MHz_ANT2
ANT=2 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=14.667ms
Marker
1: 2424.532 MHz
-7.99dBm
Limit: -27.430 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
2310.0
2325.2
2340.4
2355.6
2370.8
2386.0
2401.2
2416.4
2431.6
2446.8
2462.0

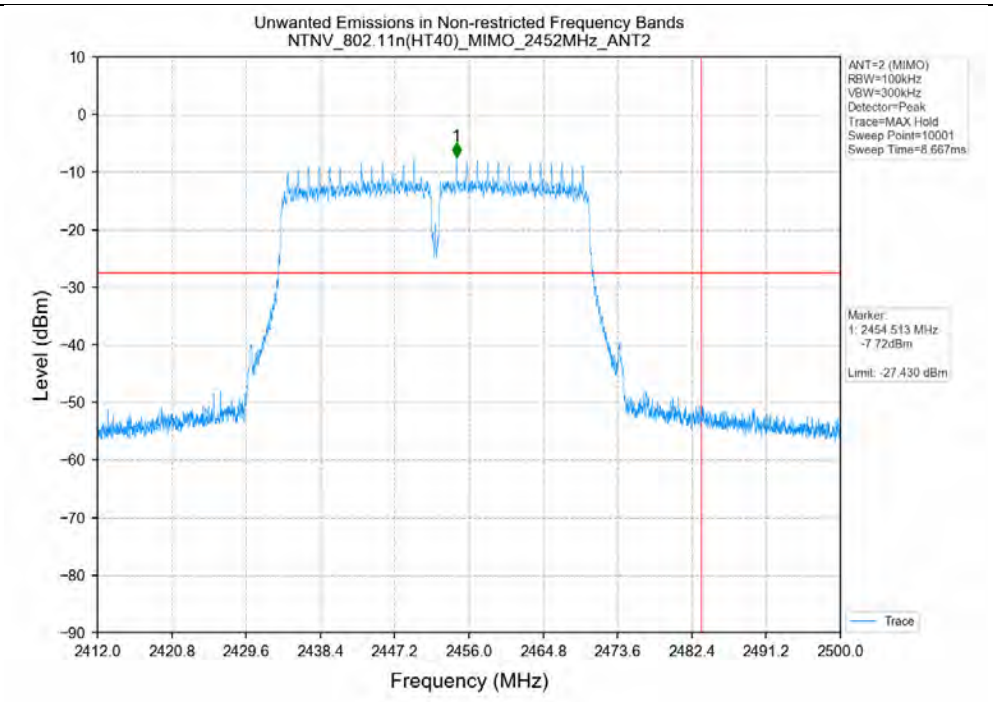

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT40)_MIMO_2422MHz_ANT2
ANT=2 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker
1: 2417.964 MHz
-6.98dBm
2: 24992.509 MHz
-29.49dBm
Limit: -27.430 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000

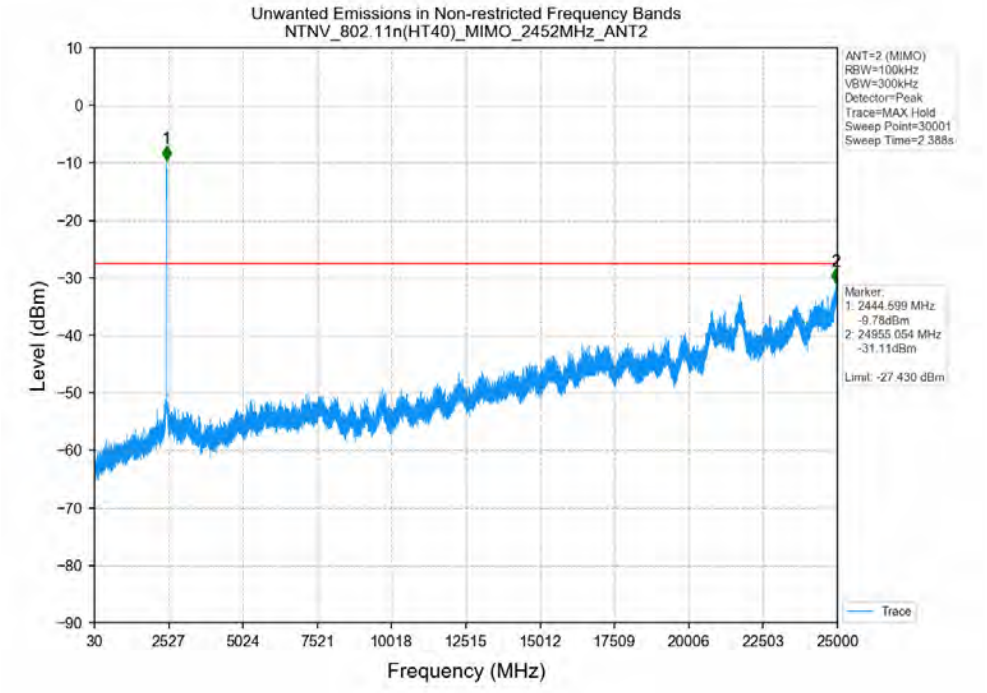

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT40)_MIMO_2437MHz_ANT1
ANT=1 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2422.126 MHz
-6.84dBm
2: 24968.371 MHz
-35.02dBm
Limit: -27.430 dBm
Trace
Level (dBm)
Frequency (MHz)


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT40)_MIMO_2437MHz_ANT2
ANT=2 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2430.449 MHz
-6.52dBm
2: 24988.347 MHz
-34.48dBm
Limit: -27.430 dBm
Trace
Level (dBm)
Frequency (MHz)


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT40)_MIMO_2452MHz_ANT1
ANT=1 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=8.667ms
Marker:
1: 2455.754 MHz
-7.44dBm
Limit: -27.430 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
2412.0
2420.8
2429.6
2438.4
2447.2
2456.0
2464.8
2473.6
2482.4
2491.2
2500.0


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT40)_MIMO_2452MHz_ANT1
ANT=1 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2457.084 MHz
-7.69dBm
2: 24940.904 MHz
-31.14dBm
Limit: -27.430 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT40)_MIMO_2452MHz_ANT2
ANT=2 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=10001
Sweep Time=8.667ms
Marker:
1: 2454.513 MHz
-7.72dBm
Limit: -27.430 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
2412.0
2420.8
2429.6
2438.4
2447.2
2456.0
2464.8
2473.6
2482.4
2491.2
2500.0


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_802.11n(HT40)_MIMO_2452MHz_ANT2
ANT=2 (MIMO)
RBW=100kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=30001
Sweep Time=2.388s
Marker:
1: 2444.599 MHz
-9.78dBm
2: 24955.054 MHz
-31.11dBm
Limit: -27.430 dBm
Trace
Level (dBm)
Frequency (MHz)
10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
30
2527
5024
7521
10018
12515
15012
17509
20006
22503
25000