

Appendix for 15.247

1. Bandwidth

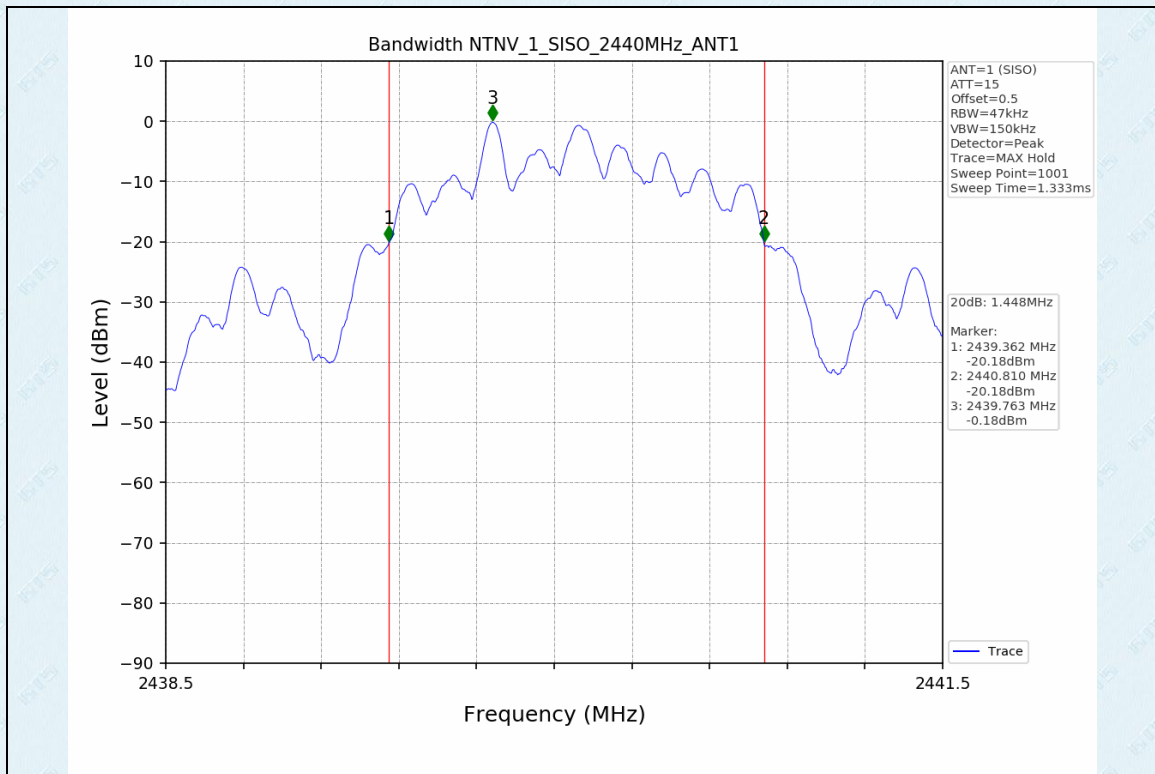
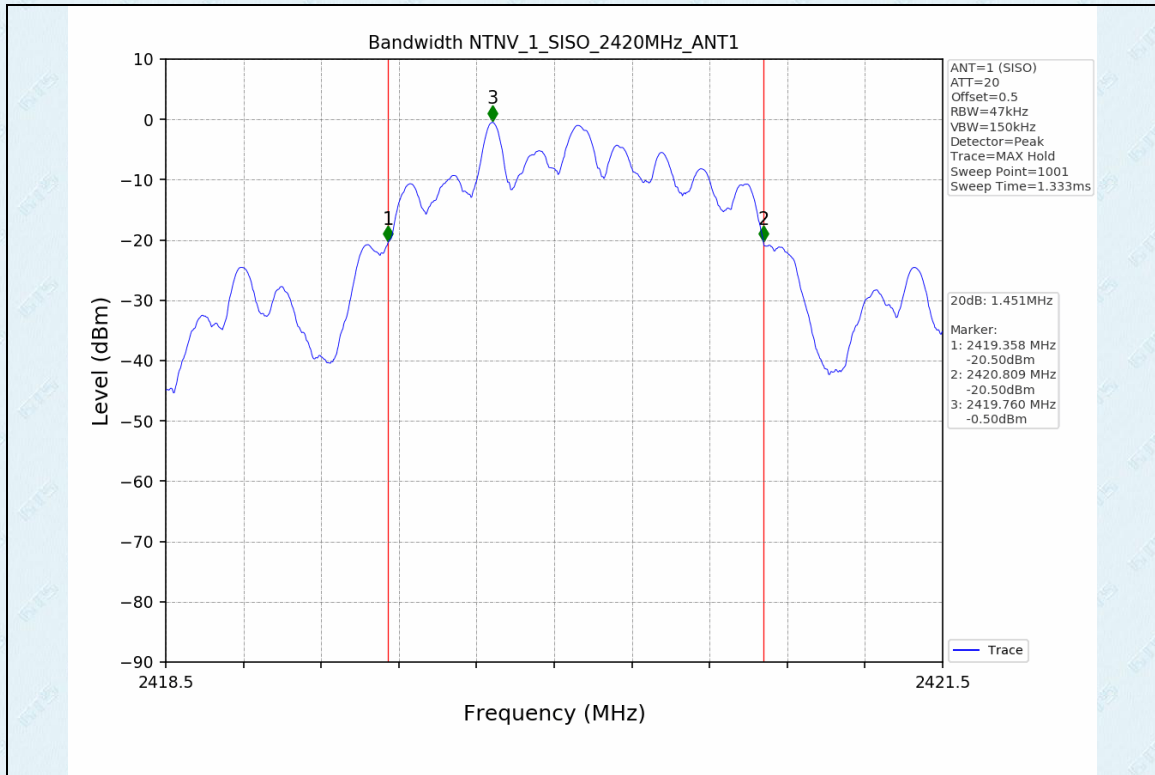
1.1 Test Result

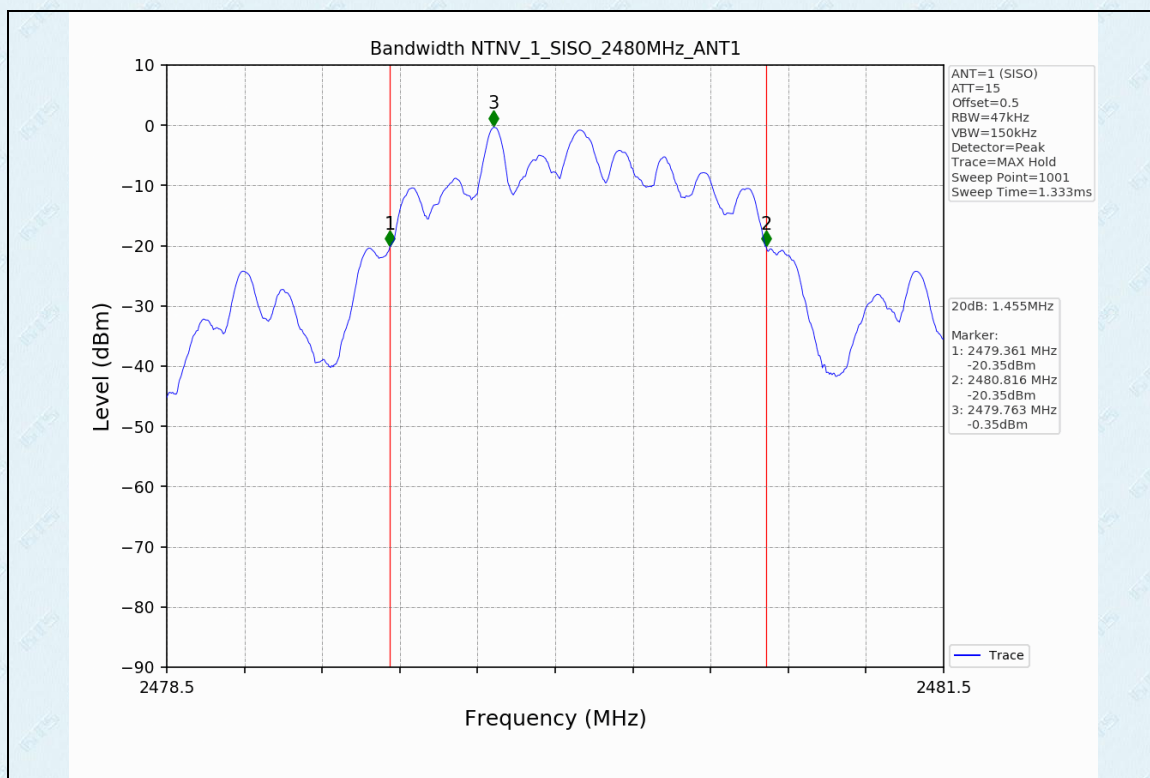
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
1	2420	SISO	1	1.451	PASS
	2440	SISO	1	1.448	PASS
	2480	SISO	1	1.455	PASS
2	2420	SISO	2	1.451	PASS
	2440	SISO	2	1.450	PASS
	2480	SISO	2	1.454	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
1	2420	SISO	1	1.456	Only for Report Use
	2440	SISO	1	1.452	Only for Report Use
	2480	SISO	1	1.467	Only for Report Use
2	2420	SISO	2	1.454	Only for Report Use
	2440	SISO	2	1.453	Only for Report Use
	2480	SISO	2	1.468	Only for Report Use

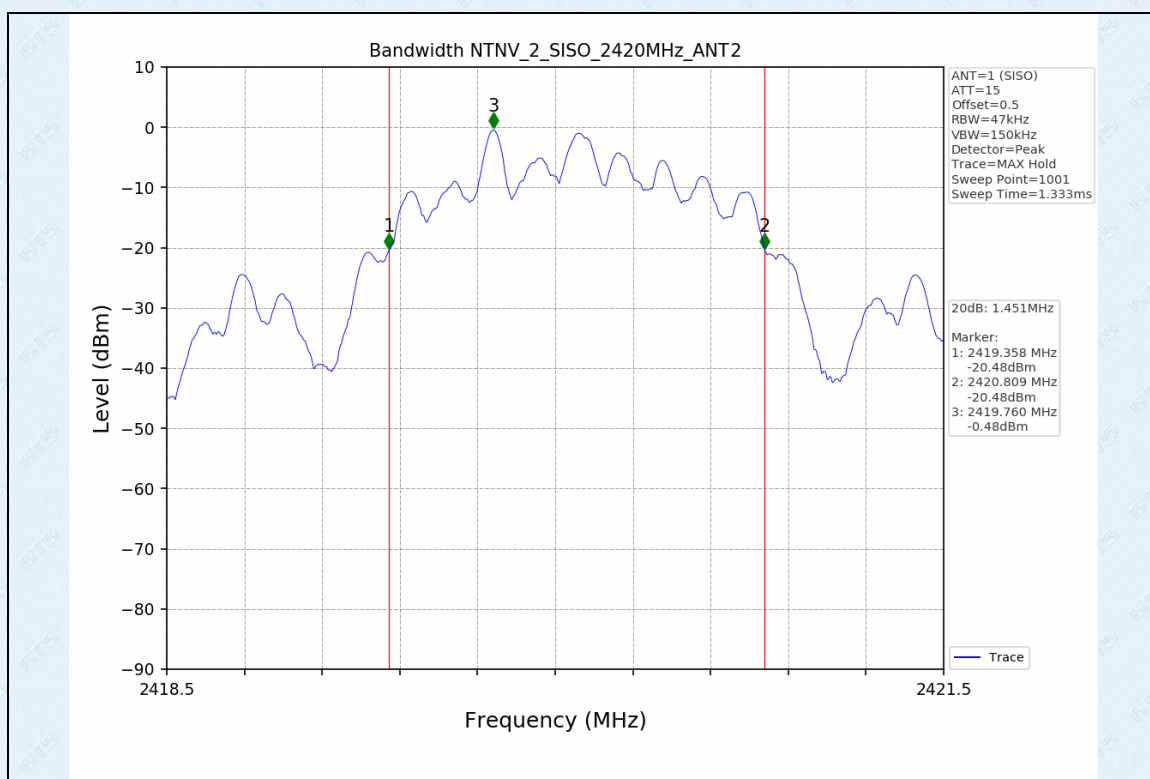
1.2 Test Graph - 20dB Bandwidth

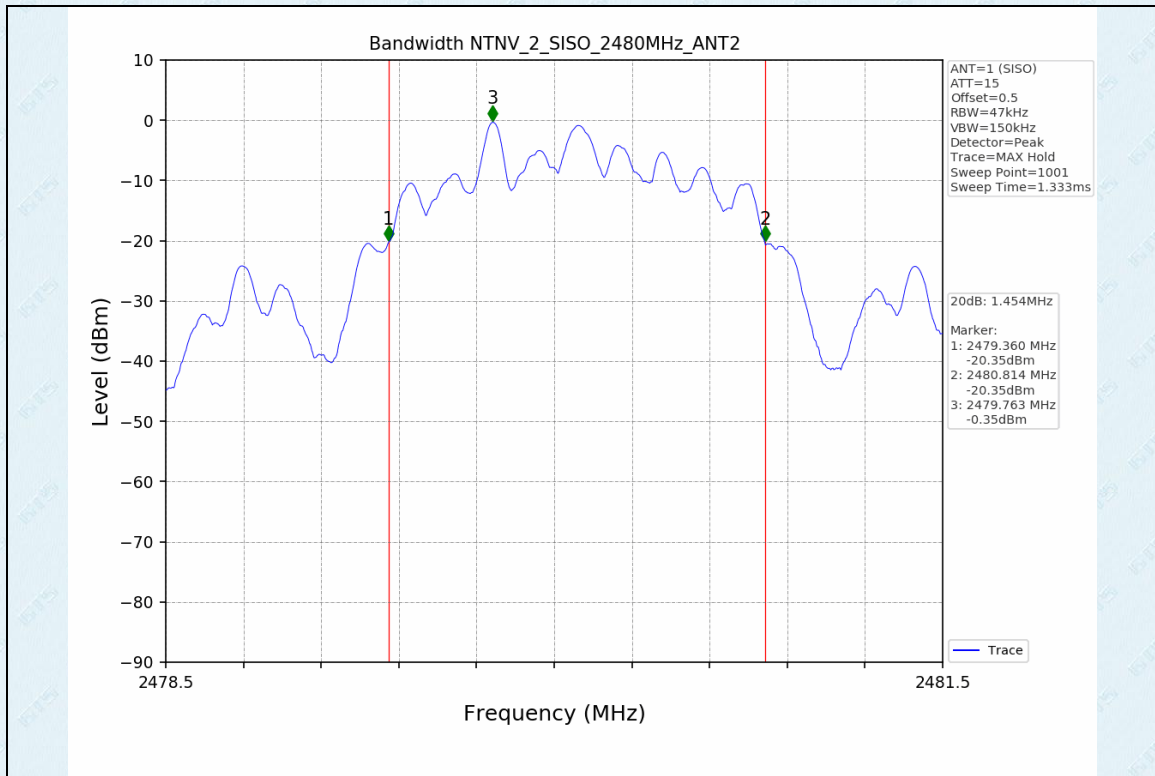
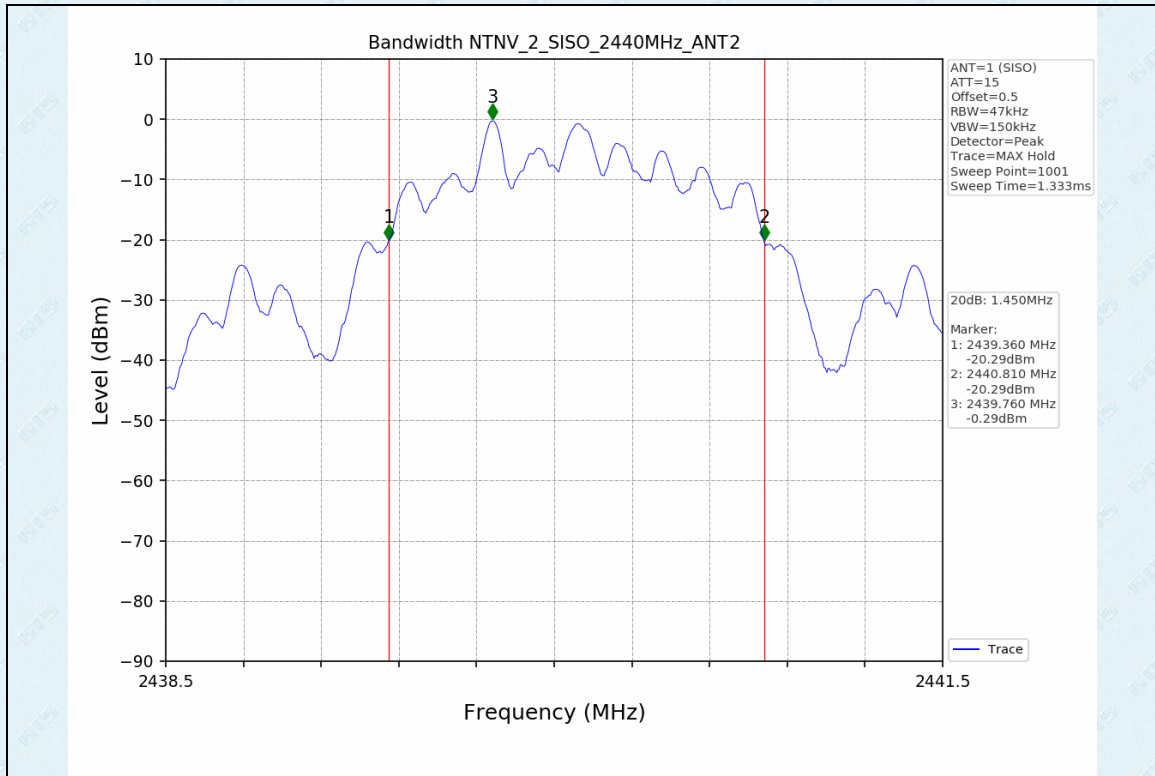
ANT 1:





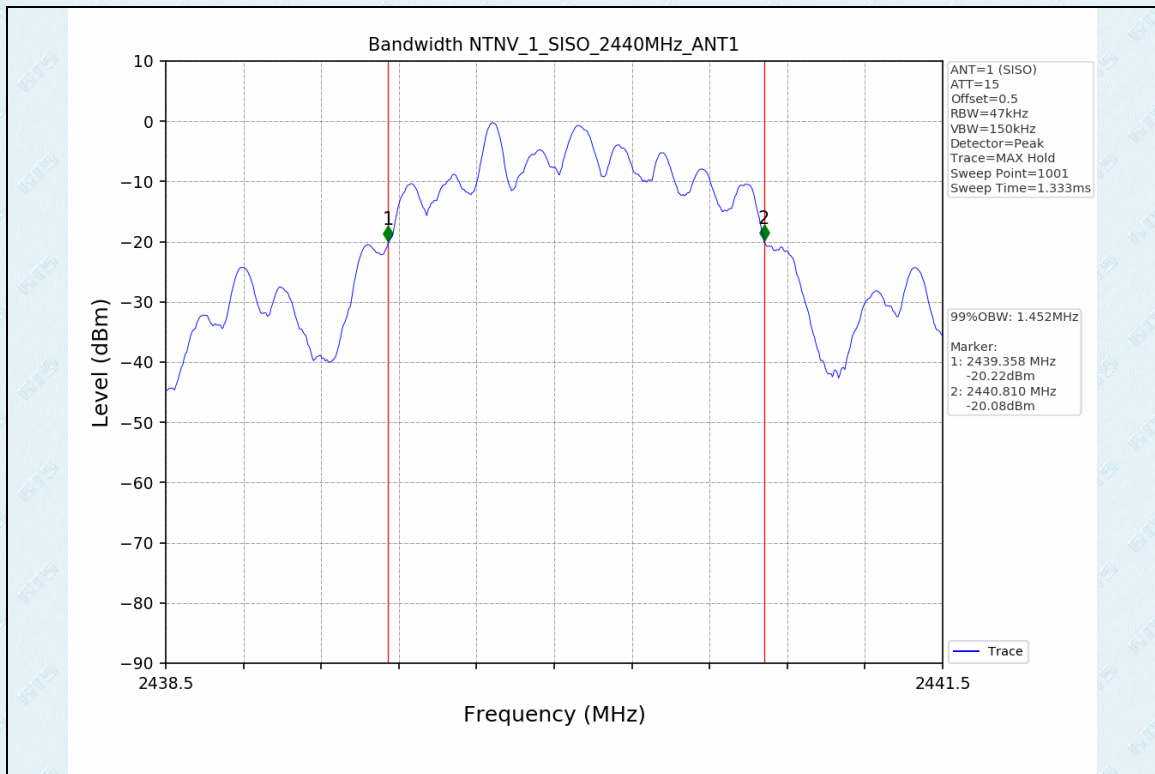
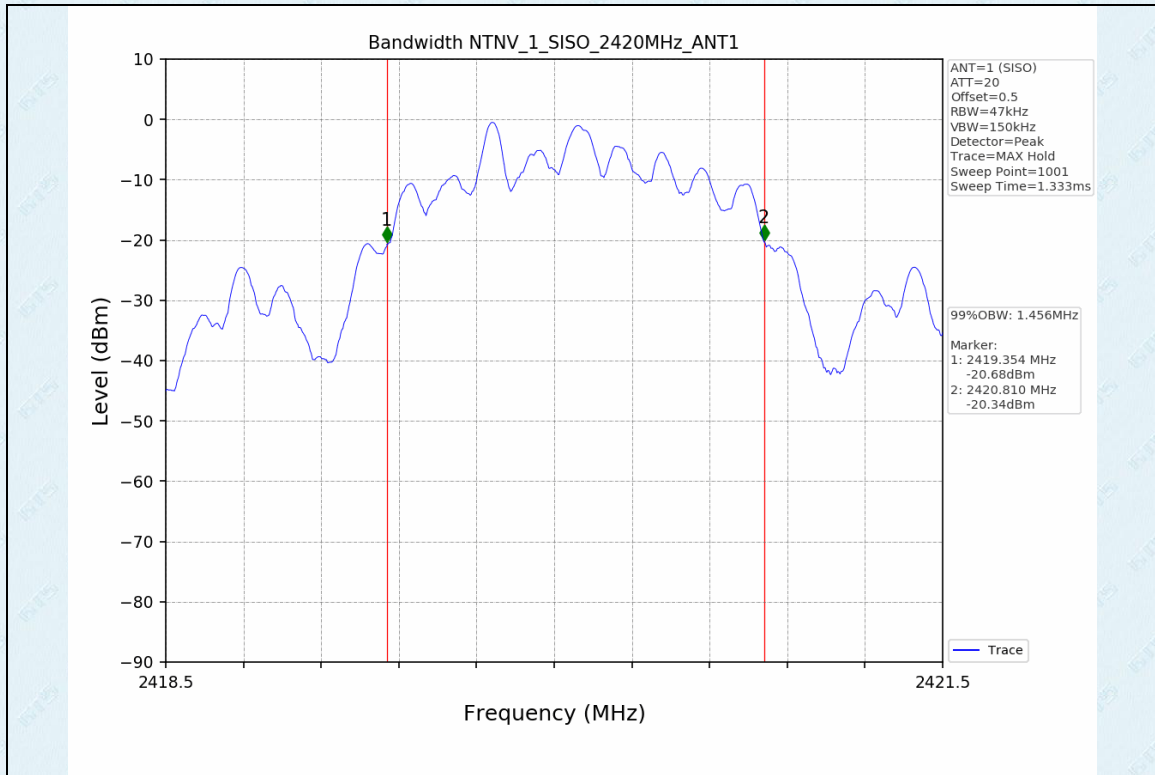
ANT 2:

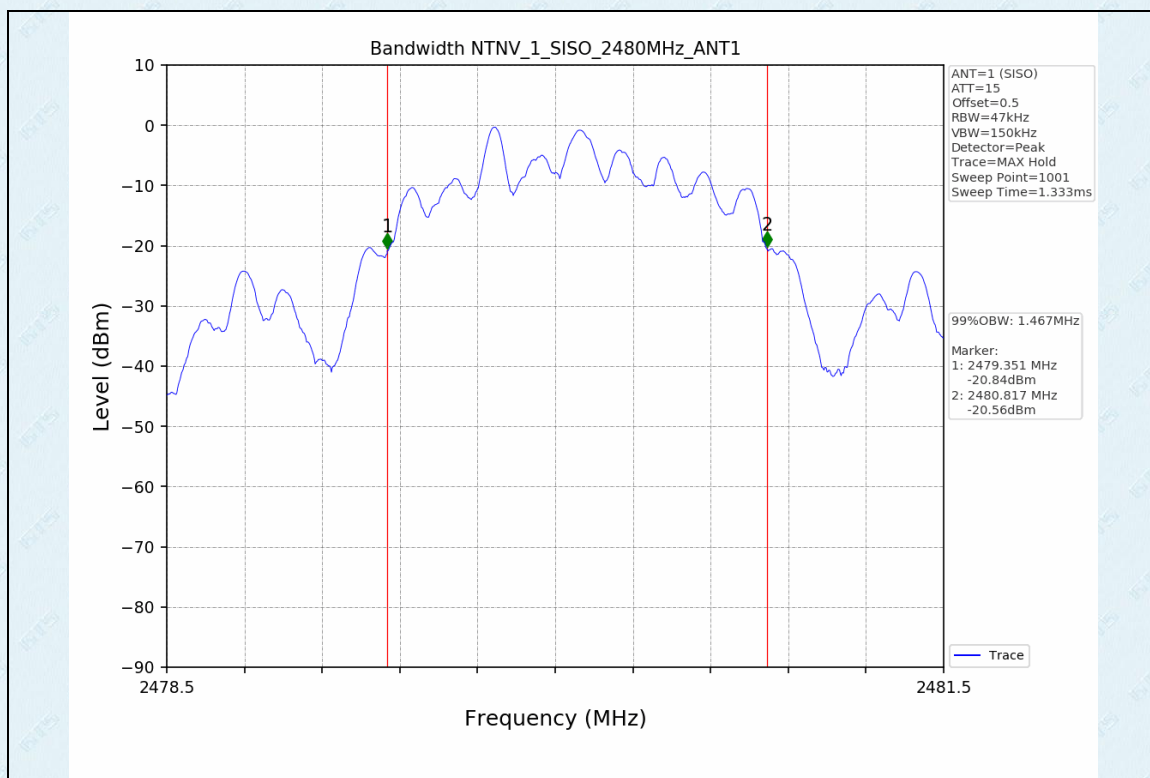




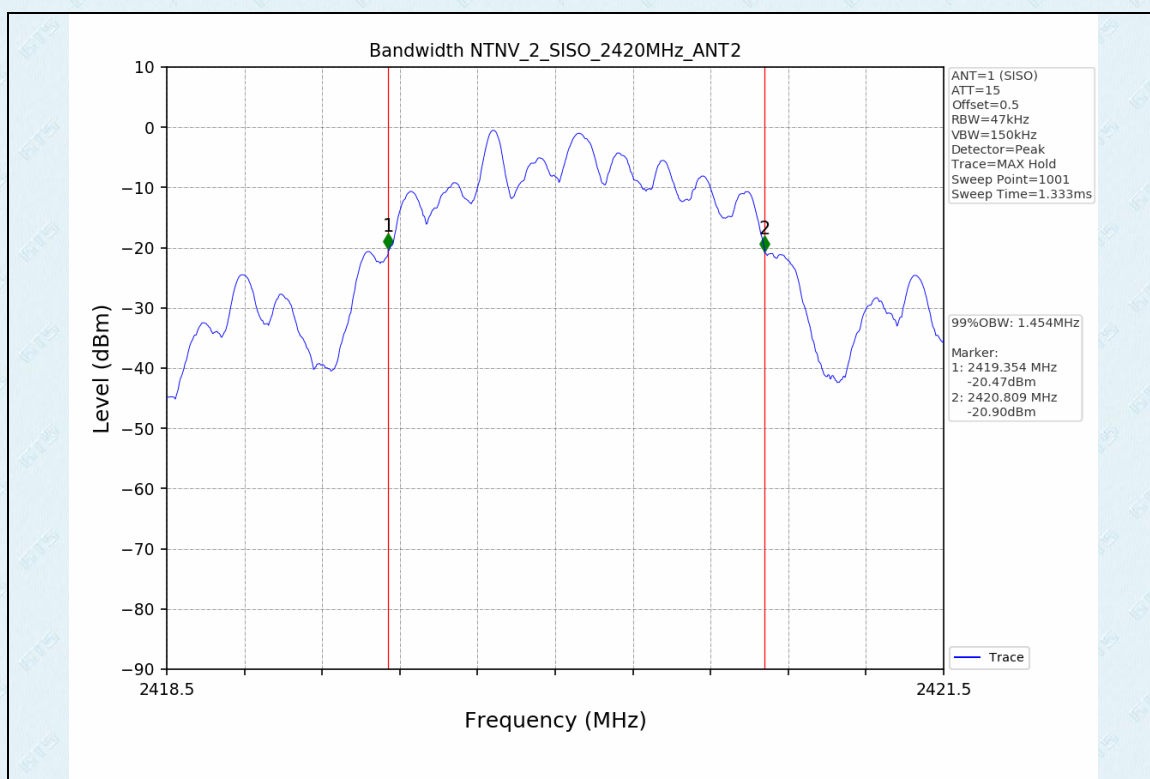
1.3 Test Graph - 99% Occupied Bandwidth

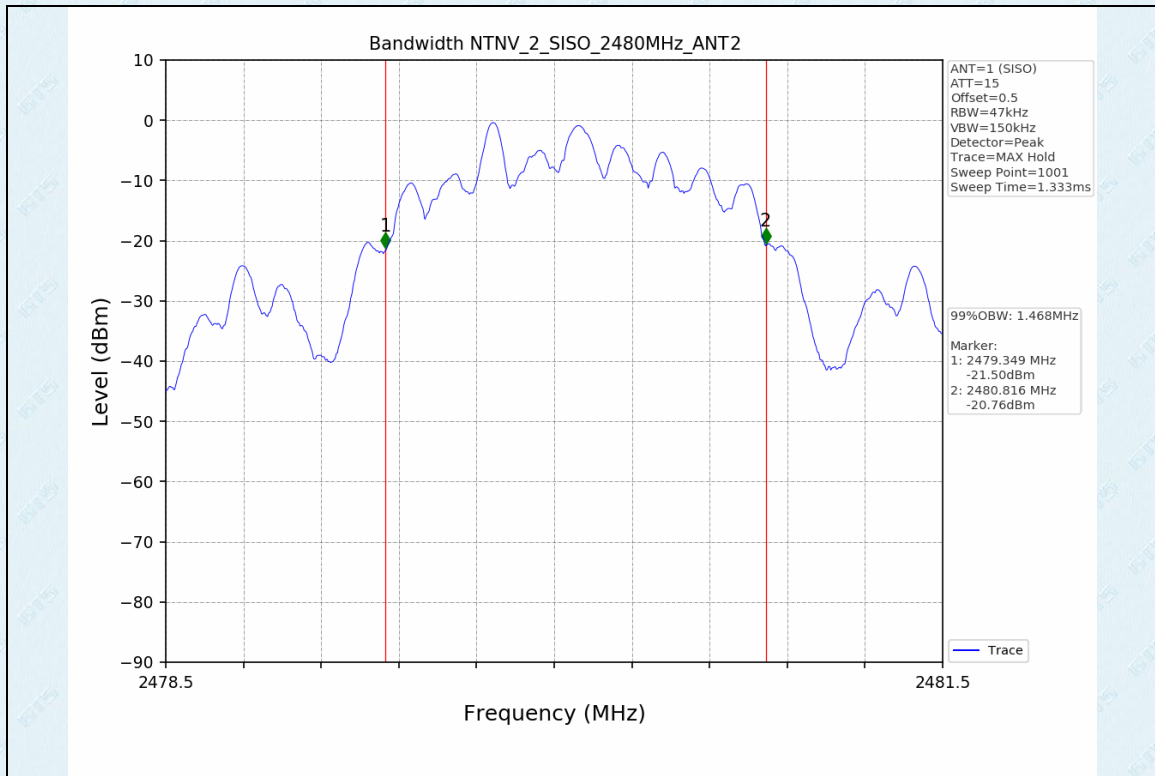
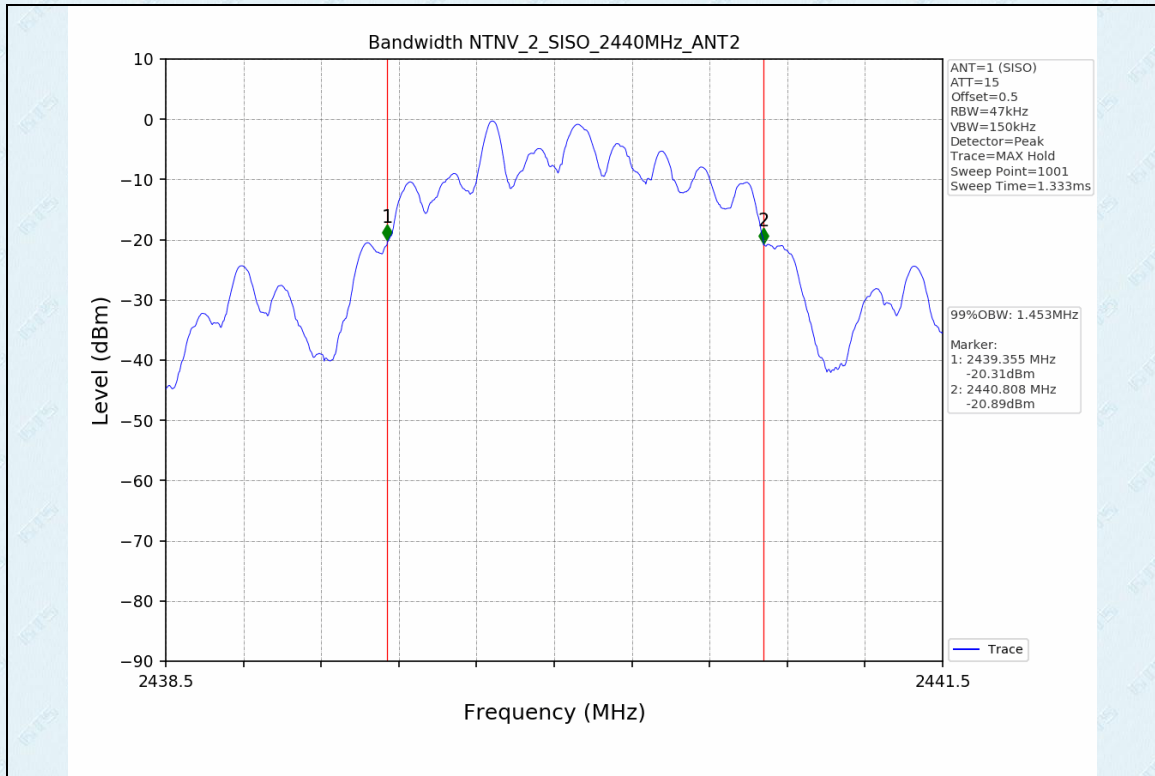
ANT 1:





ANT 2:





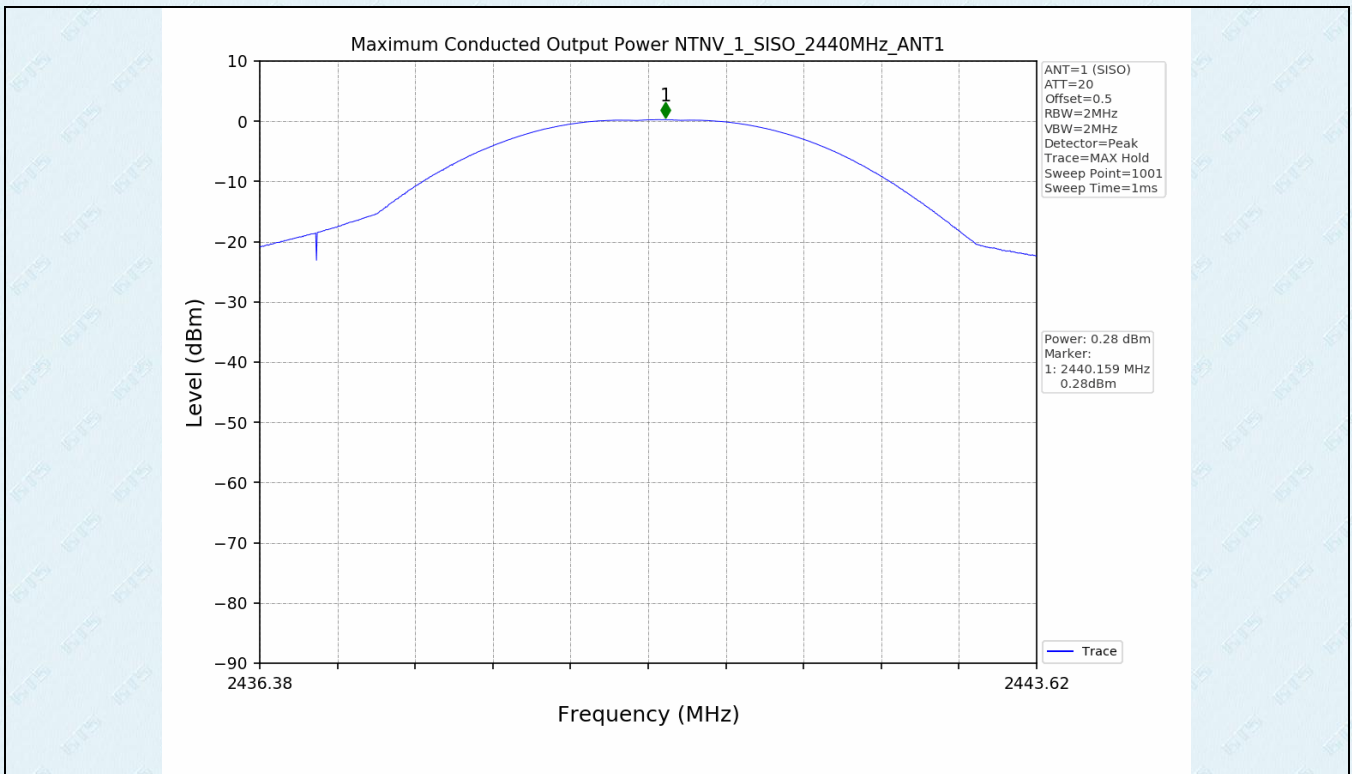
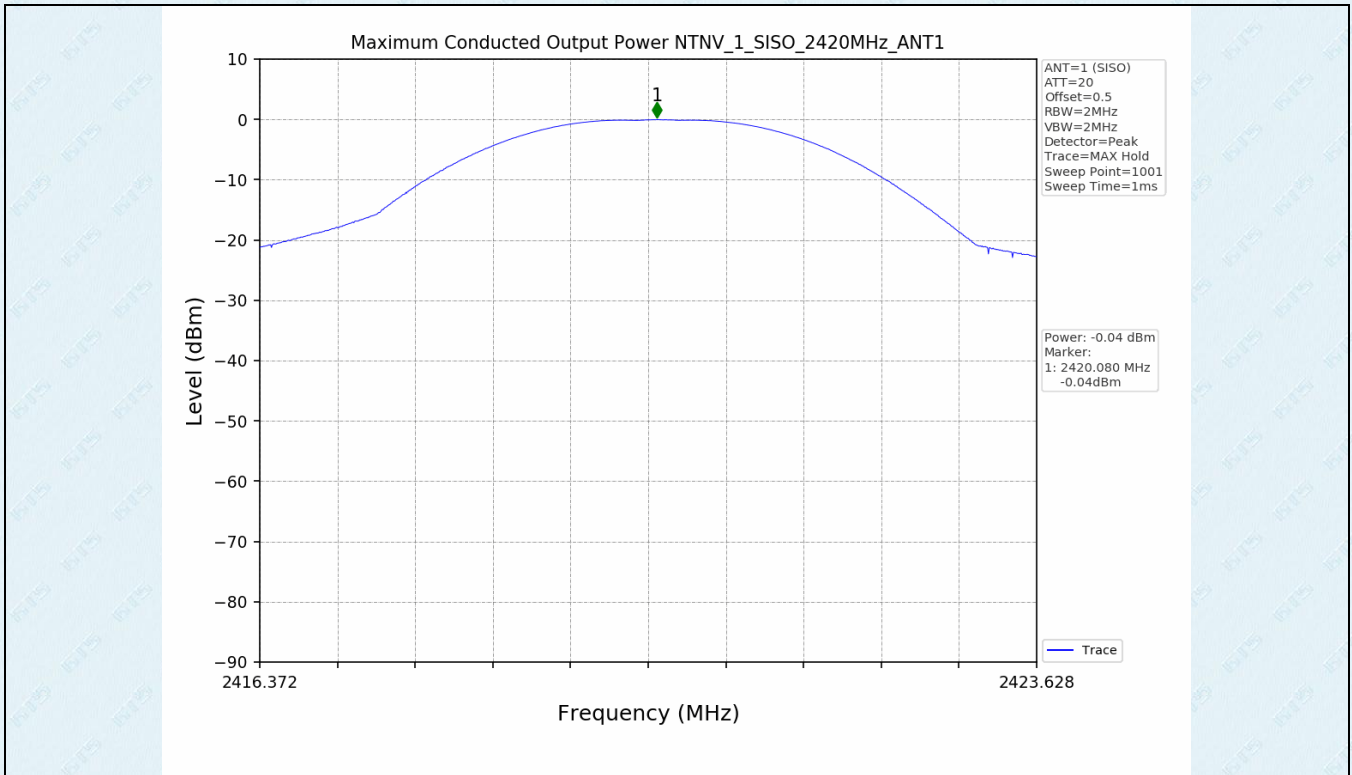
2. Maximum Conducted Output Power

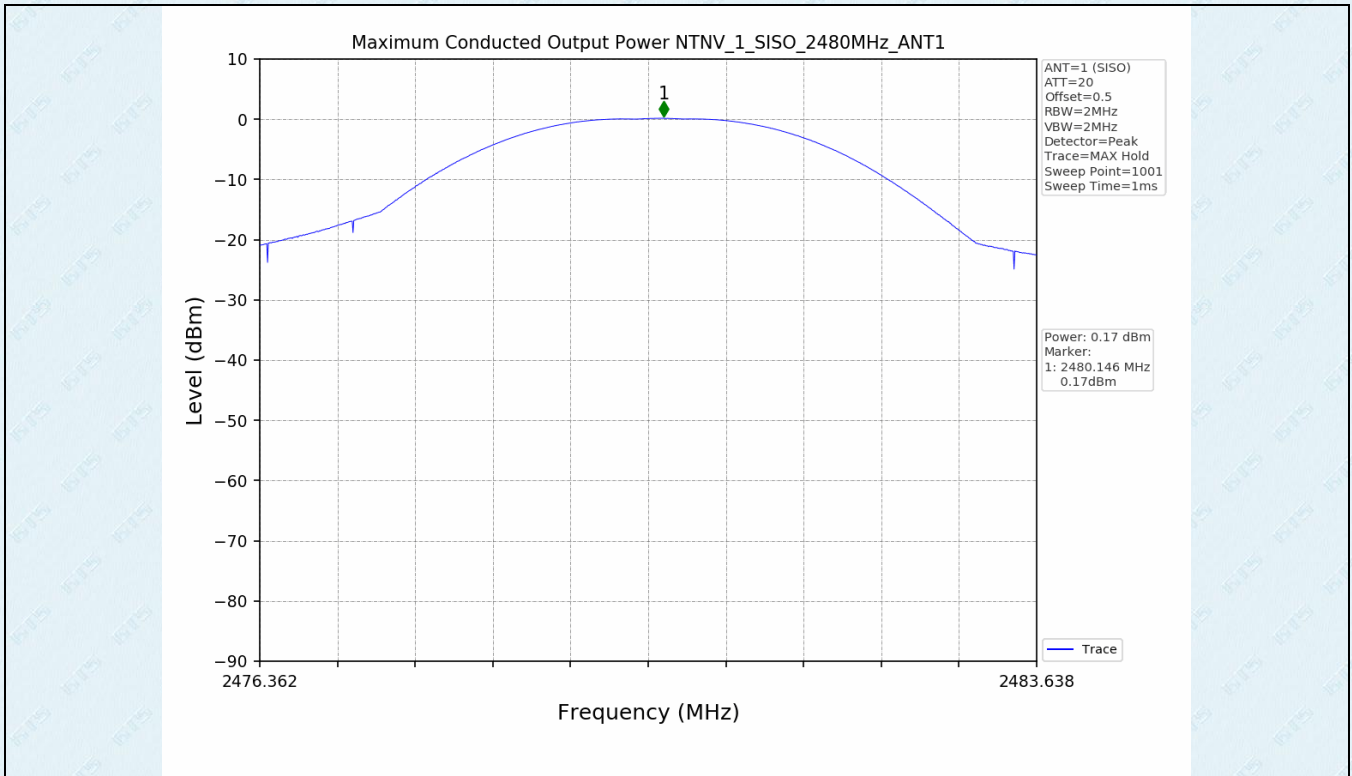
2.1 Test Result

ANT No.	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
1	2420	SISO	-0.04	20.97	PASS
	2440	SISO	0.28	20.97	PASS
	2480	SISO	0.17	20.97	PASS
2	2420	SISO	-0.04	20.97	PASS
	2440	SISO	0.21	20.97	PASS
	2480	SISO	0.11	20.97	PASS

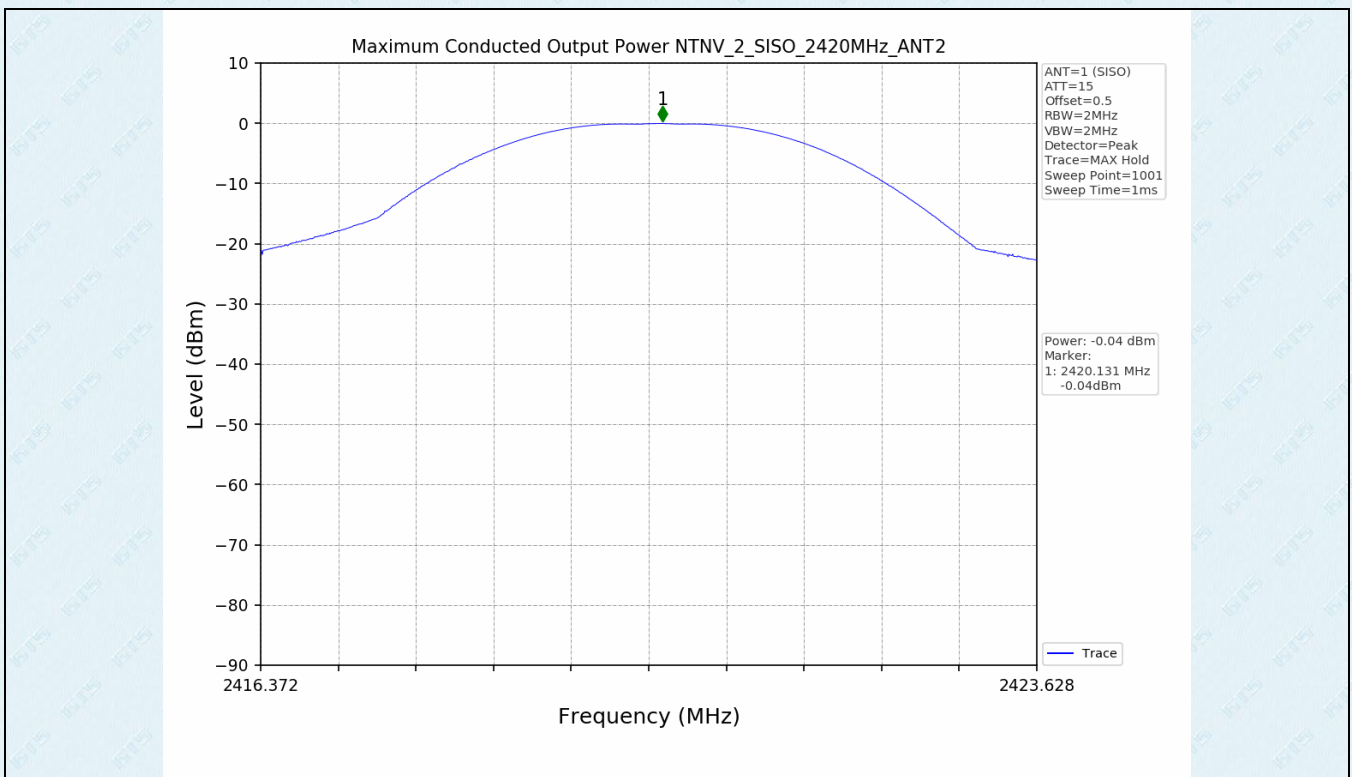
2.2 Test Graph

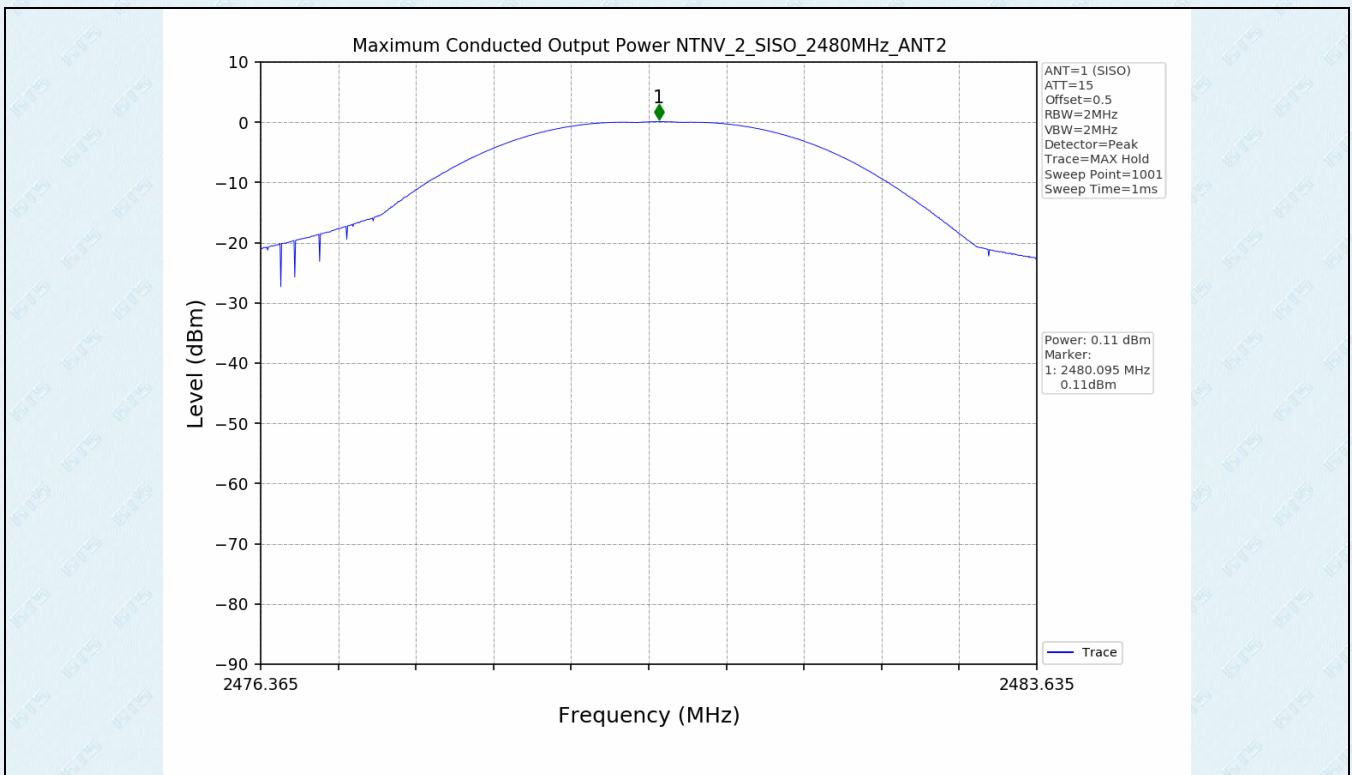
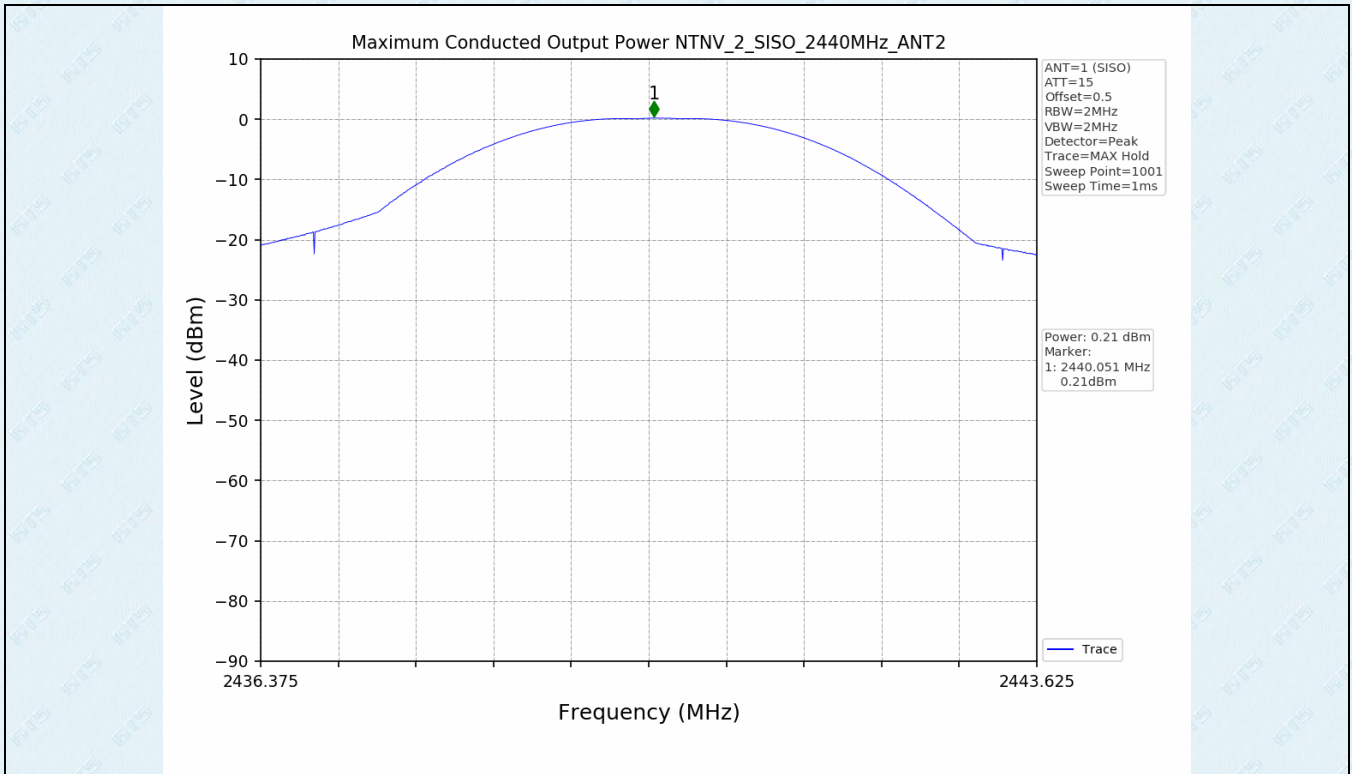
ANT 1:





ANT 2:





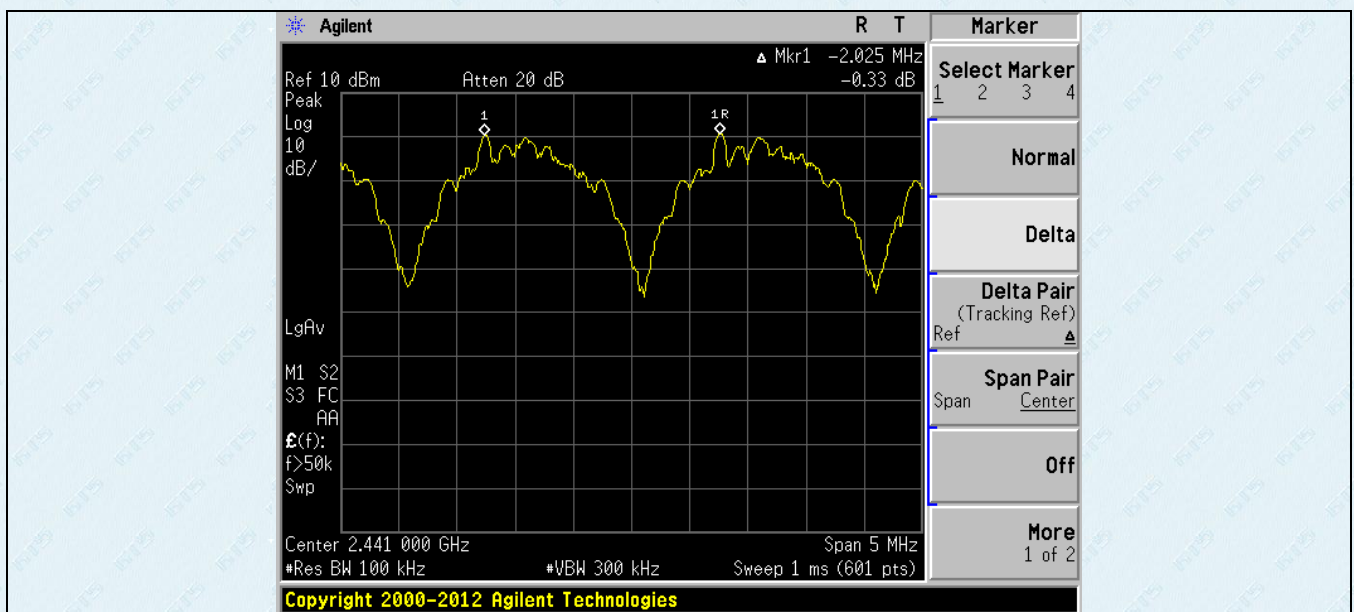
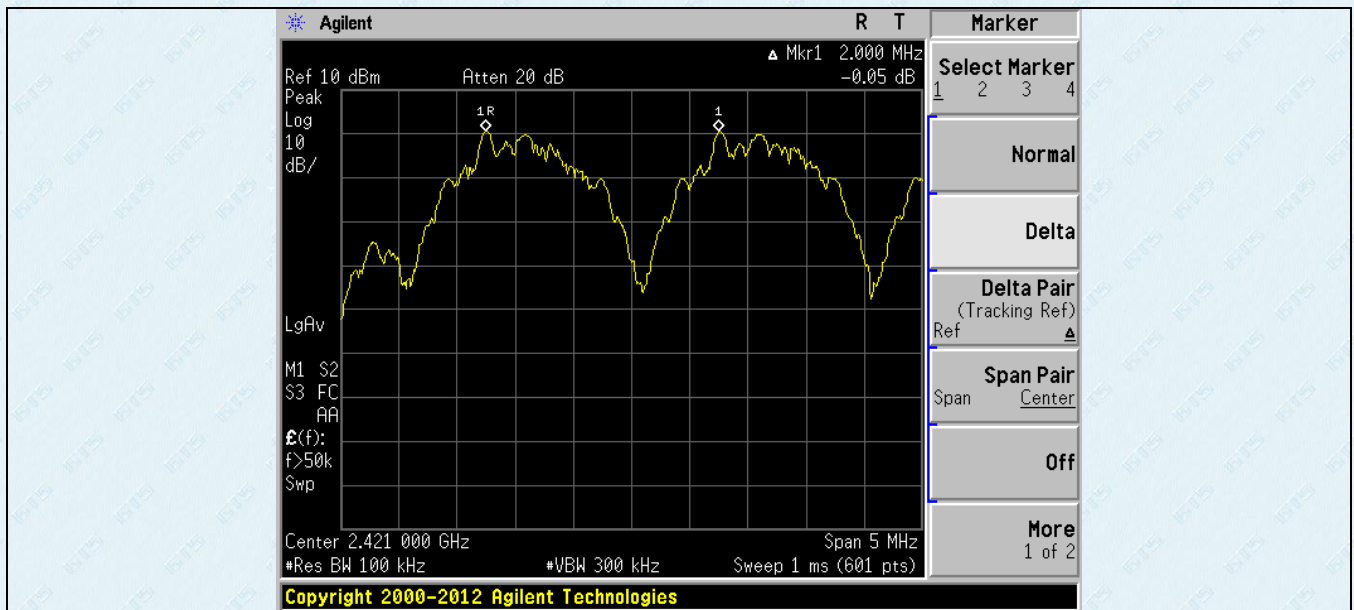
3. Carrier frequency separation

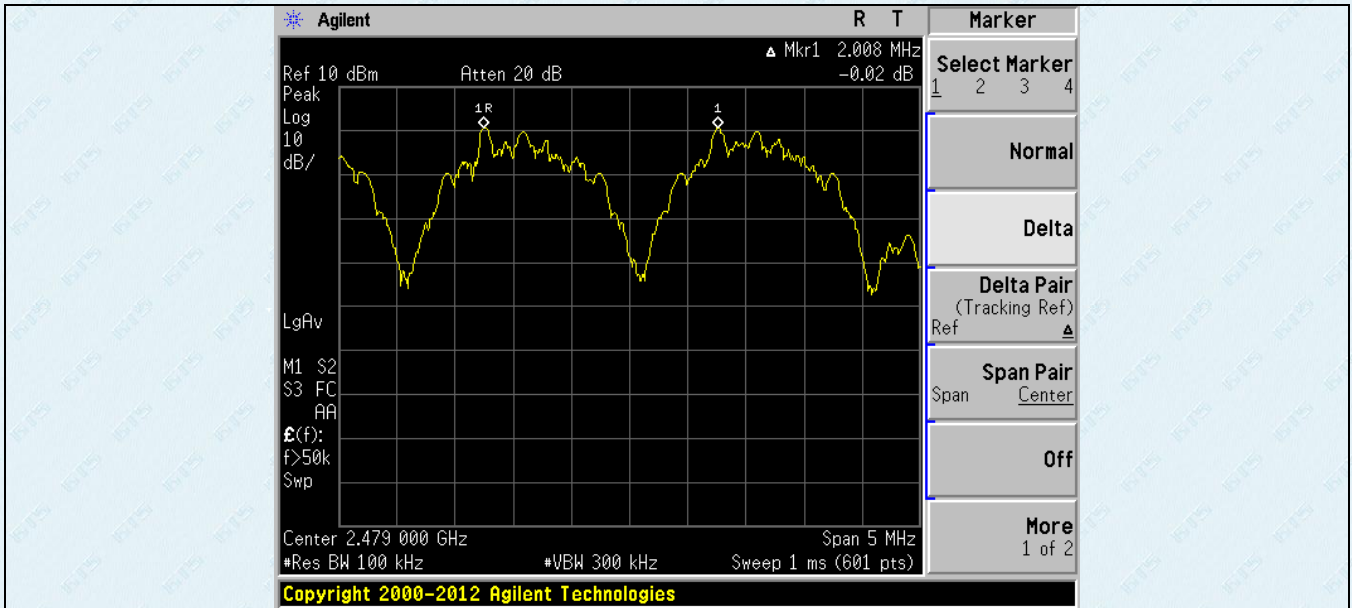
3.1 Test Result

ANT No.	Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
1	Lowest	2000	967.33	Pass
	Middle	2025	965.33	Pass
	Highest	2008	970.00	Pass
2	Lowest	2008	967.33	Pass
	Middle	2008	966.67	Pass
	Highest	2025	969.33	Pass

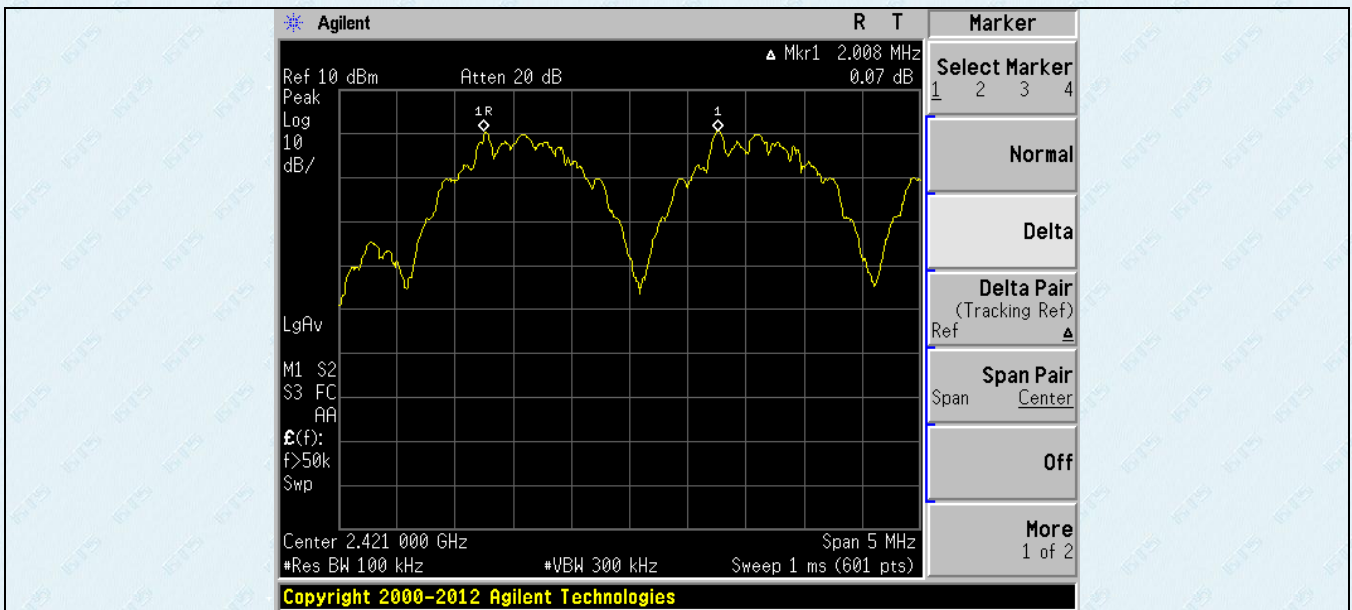
3.2 Test Graph

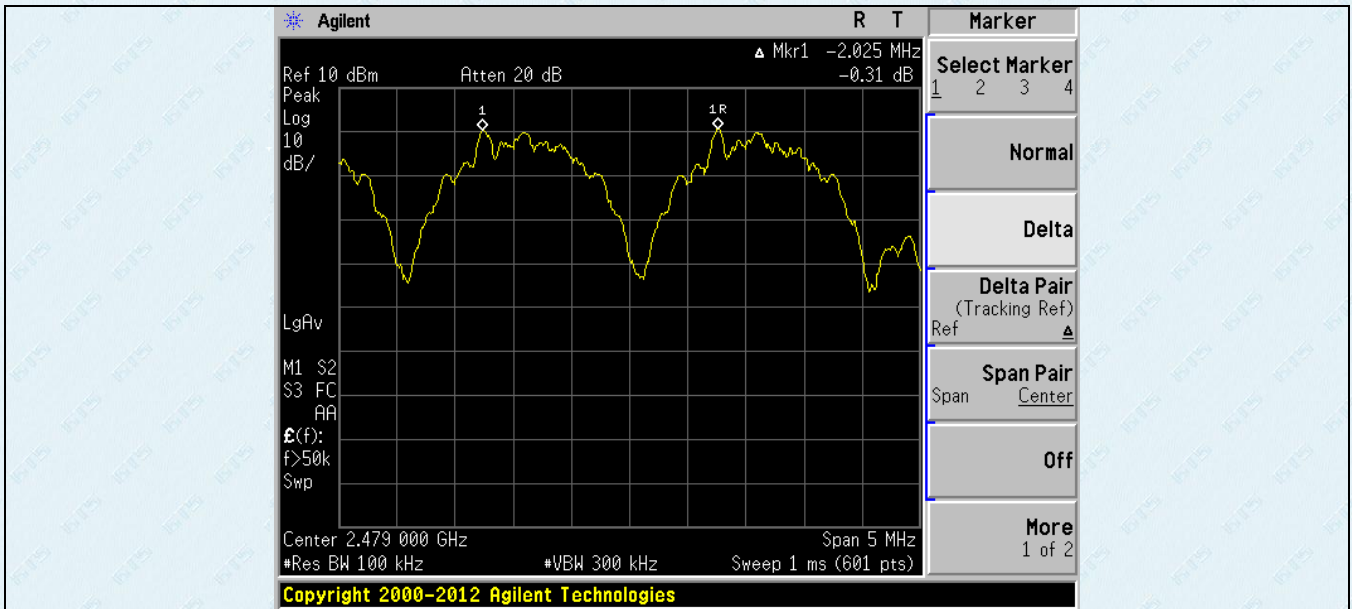
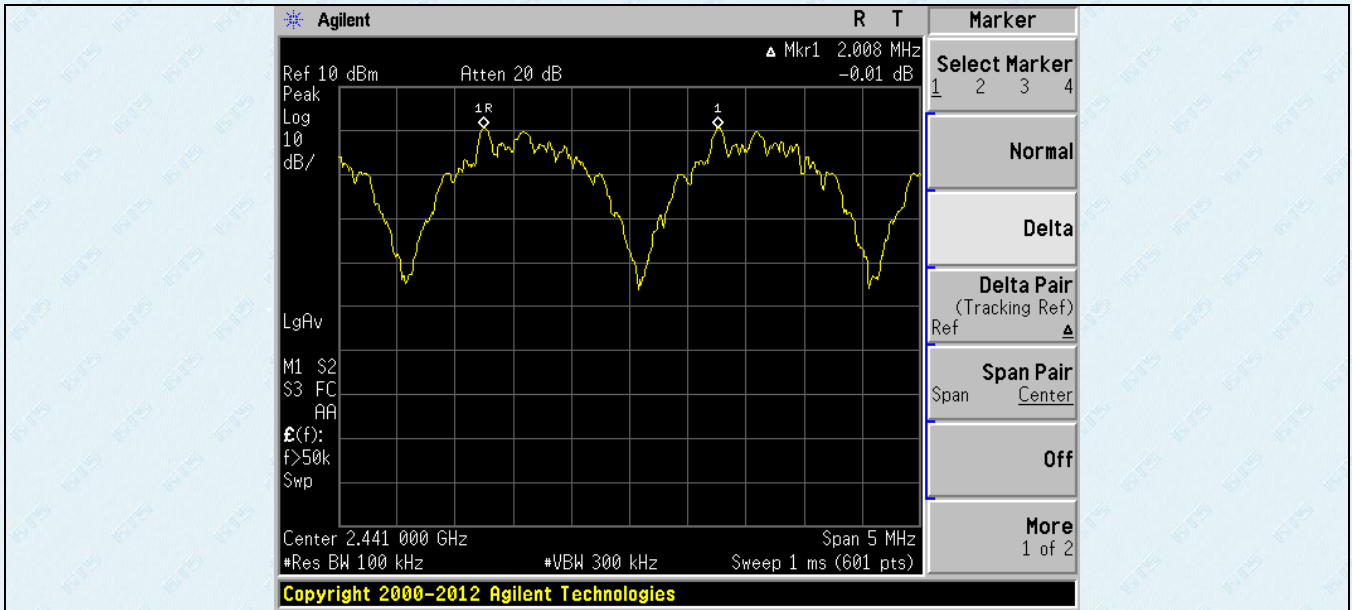
ANT 1:





ANT 2:





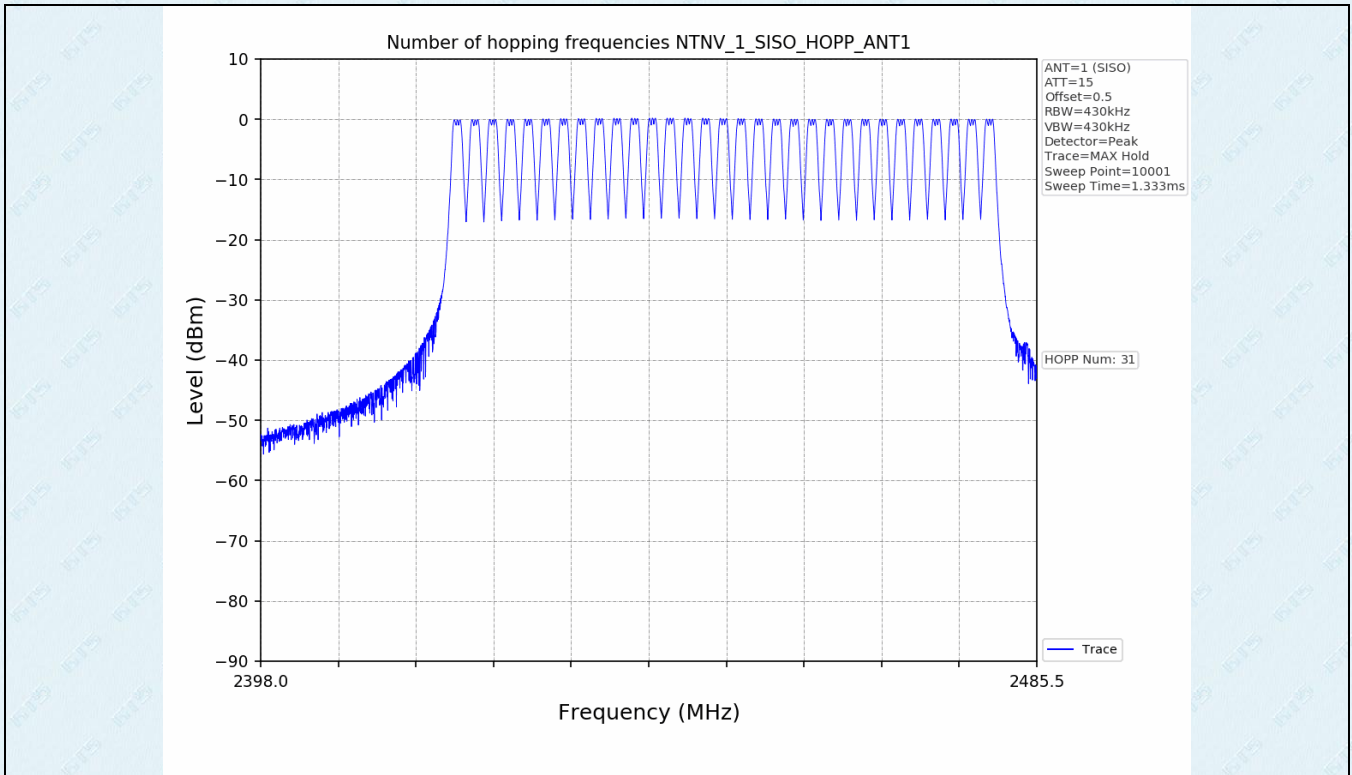
4. Number of hopping frequencies

4.1 Test Result

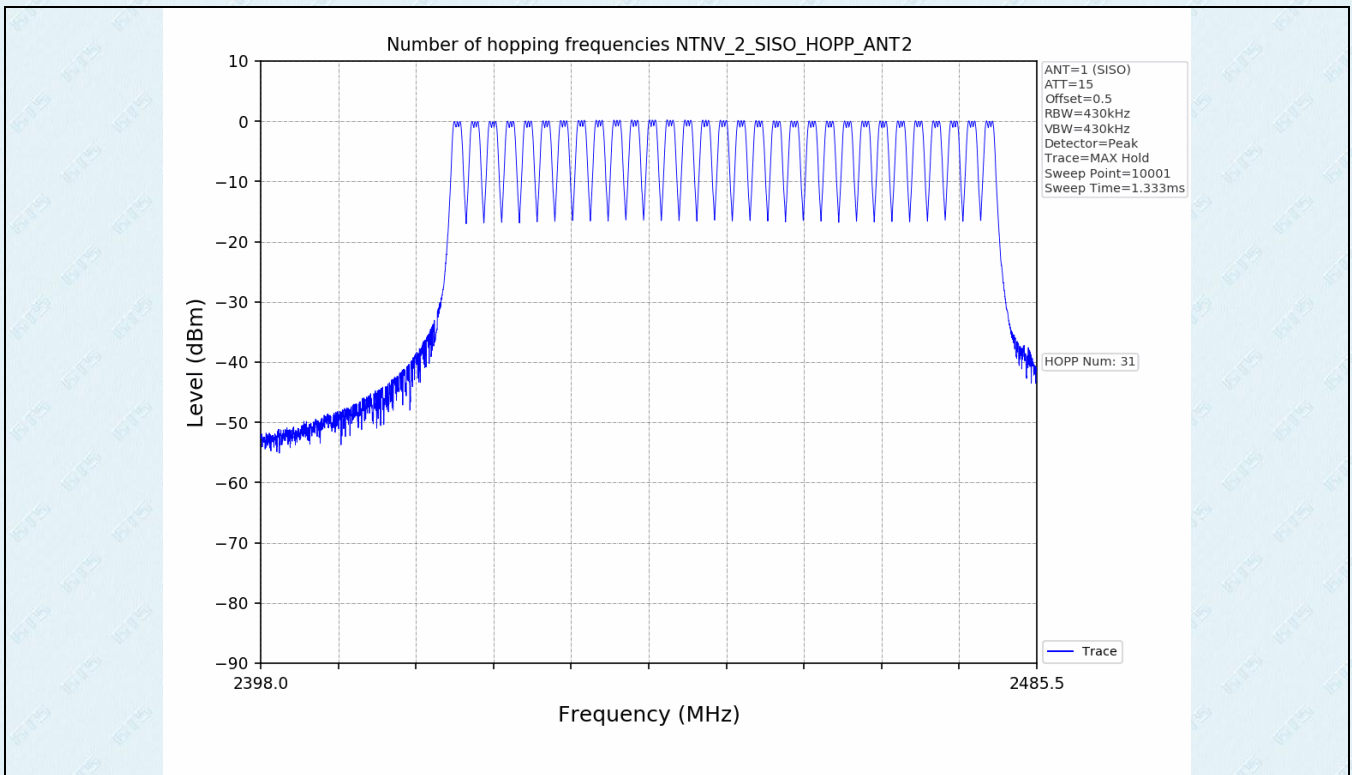
Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
1	SISO	1	31	≥15	PASS
2	SISO	1	31	≥15	PASS

4.2 Test Graph

ANT 1:



ANT 2:



5. Time of occupancy (dwell time)

5.1 Test Result

ANT No.	Test channel	Ton (ms)	Dwell time(ms)	Limit(ms)	Result
1	Lowest	0.3417	241.51	400	Pass
	Middle	0.3333	243.84	400	Pass
	Highest	0.3500	256.06	400	Pass
2	Lowest	0.3333	239.71	400	Pass
	Middle	0.3417	245.75	400	Pass
	Highest	0.3250	233.74	400	Pass

The formula as below:

ANT 1:

Lowest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=0.3417ms*57*0.4*31=241.51ms

Middle: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=0.3333ms*59*0.4*31=243.84ms

Highest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=0.3500ms*59*0.4*31=256.06ms

ANT 2:

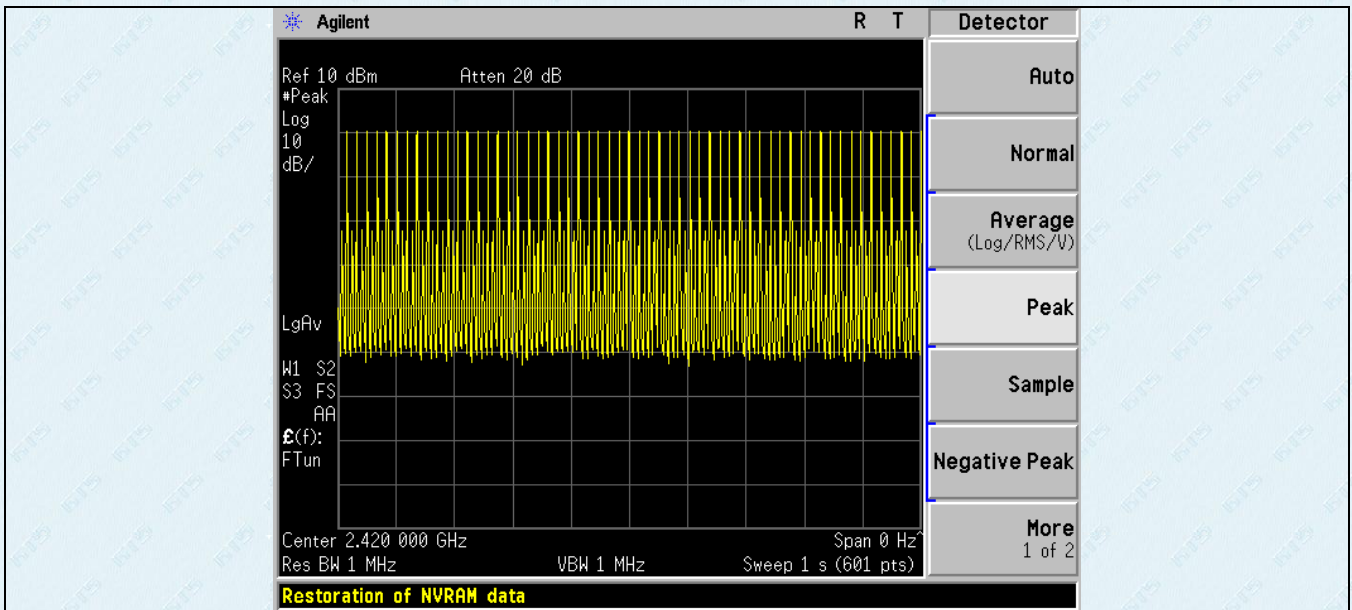
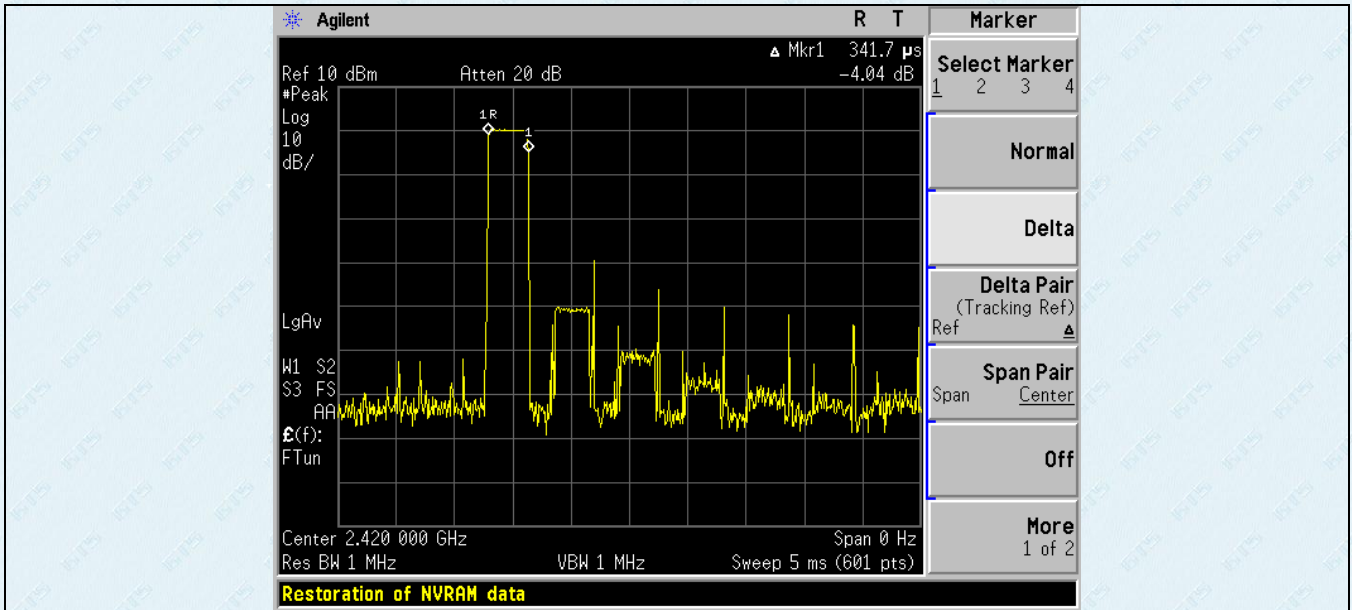
Lowest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=0.3333ms*58*0.4*31=239.71ms

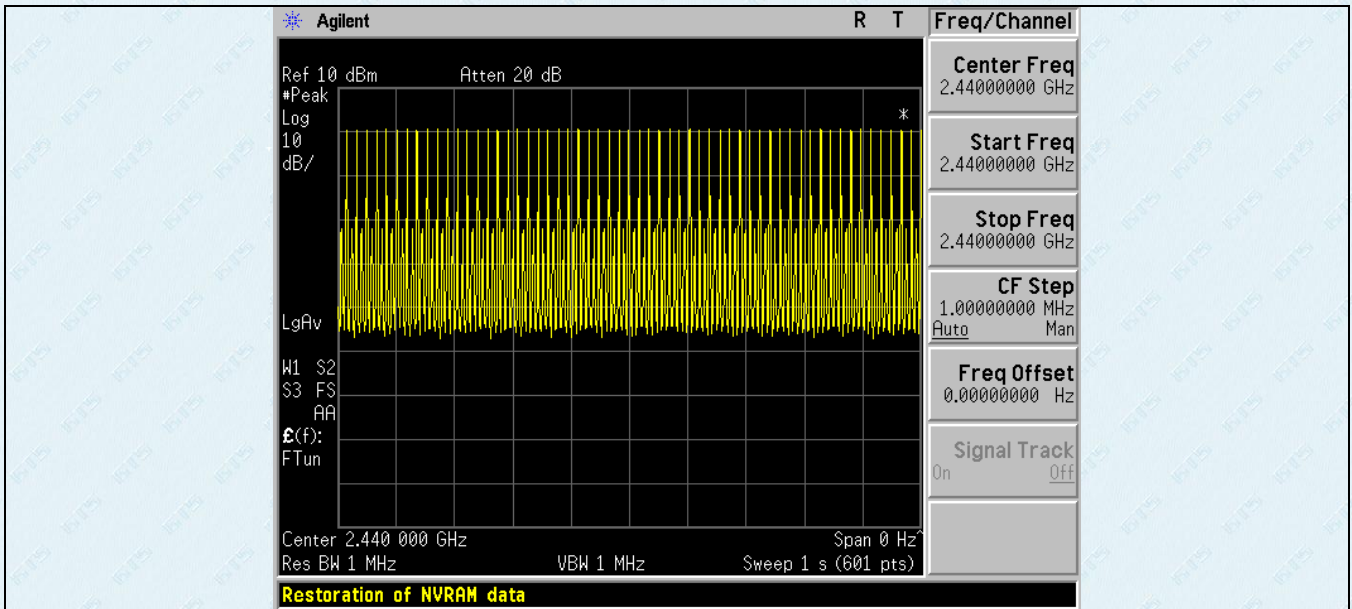
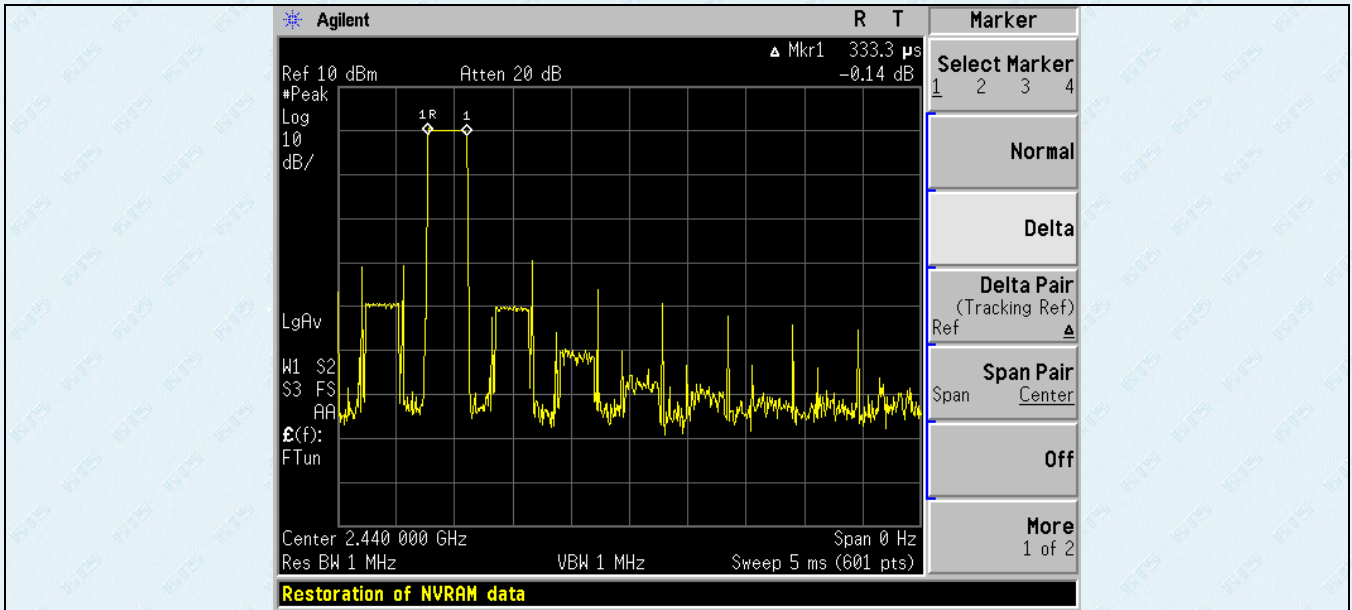
Middle: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=0.3417ms*58*0.4*31=245.75ms

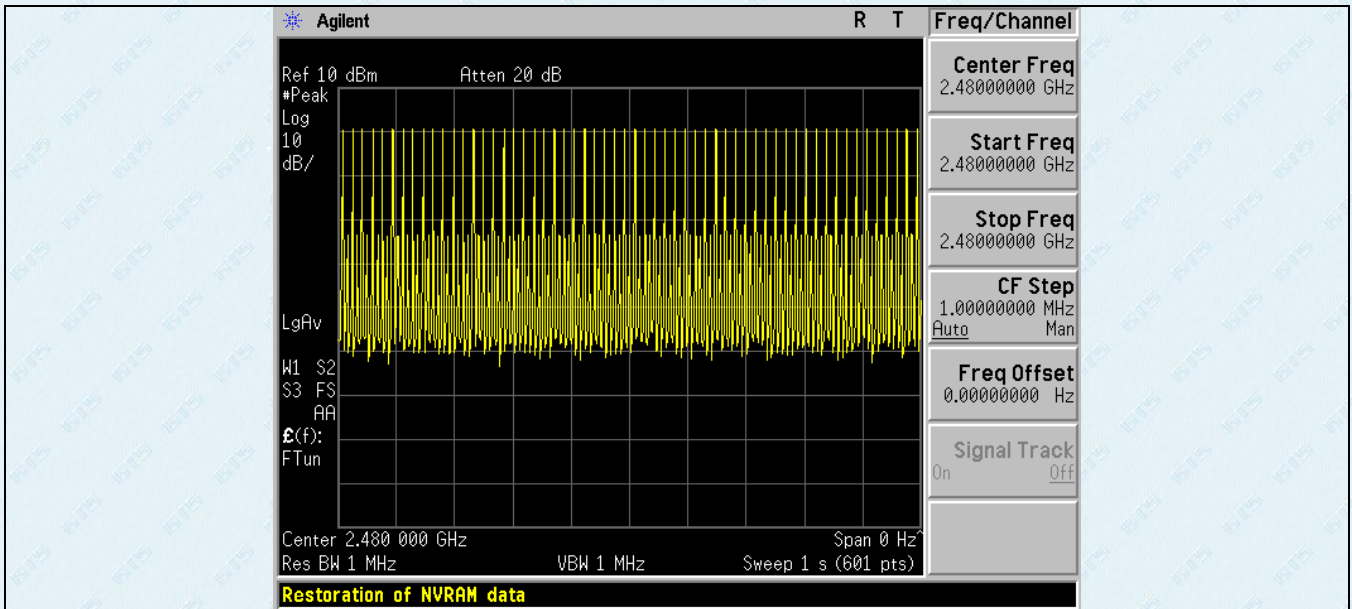
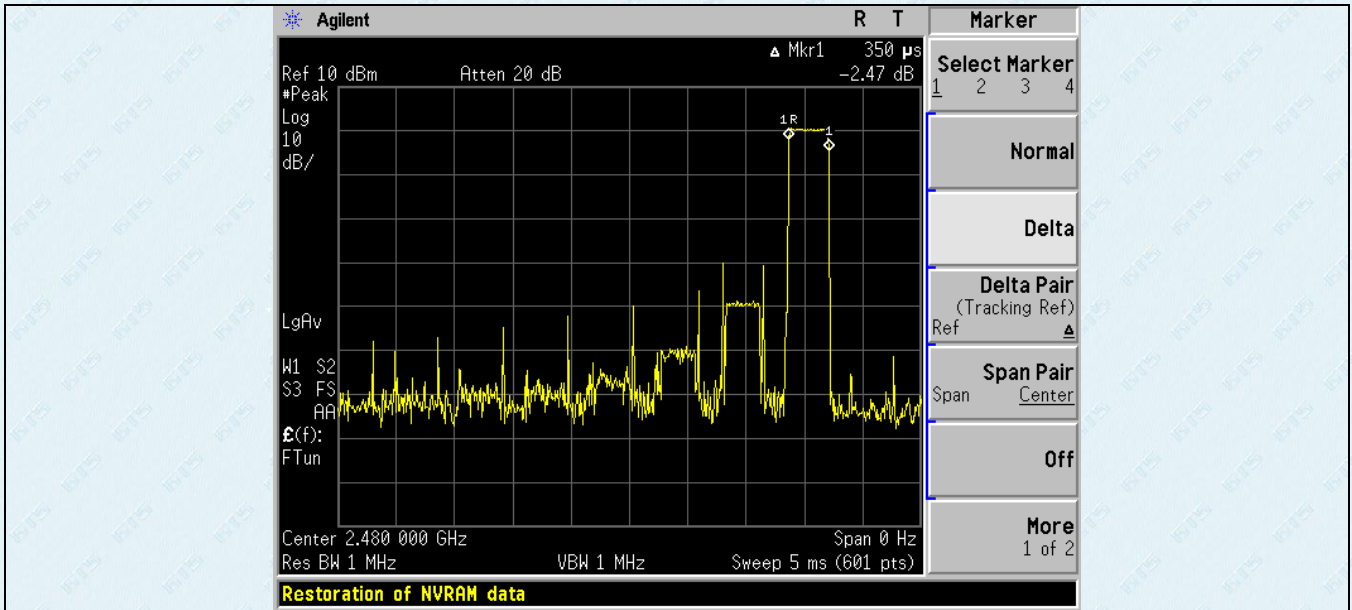
Highest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=0.3250ms*58*0.4*31=233.74ms

5.2 Test Graph

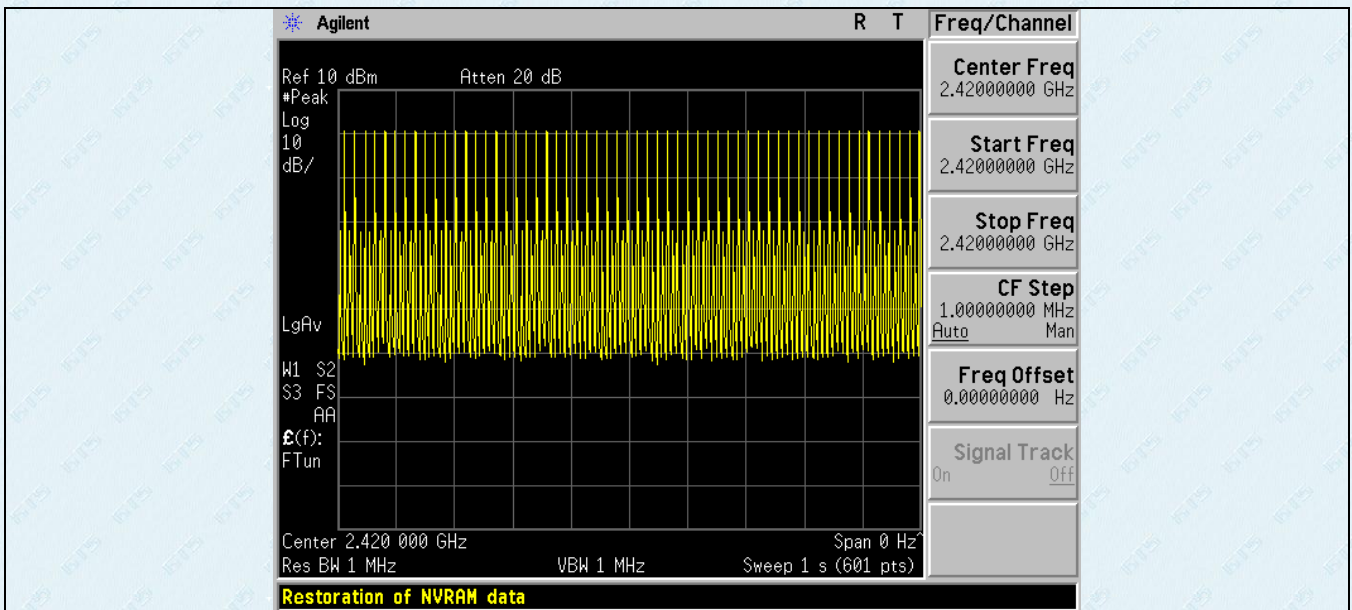
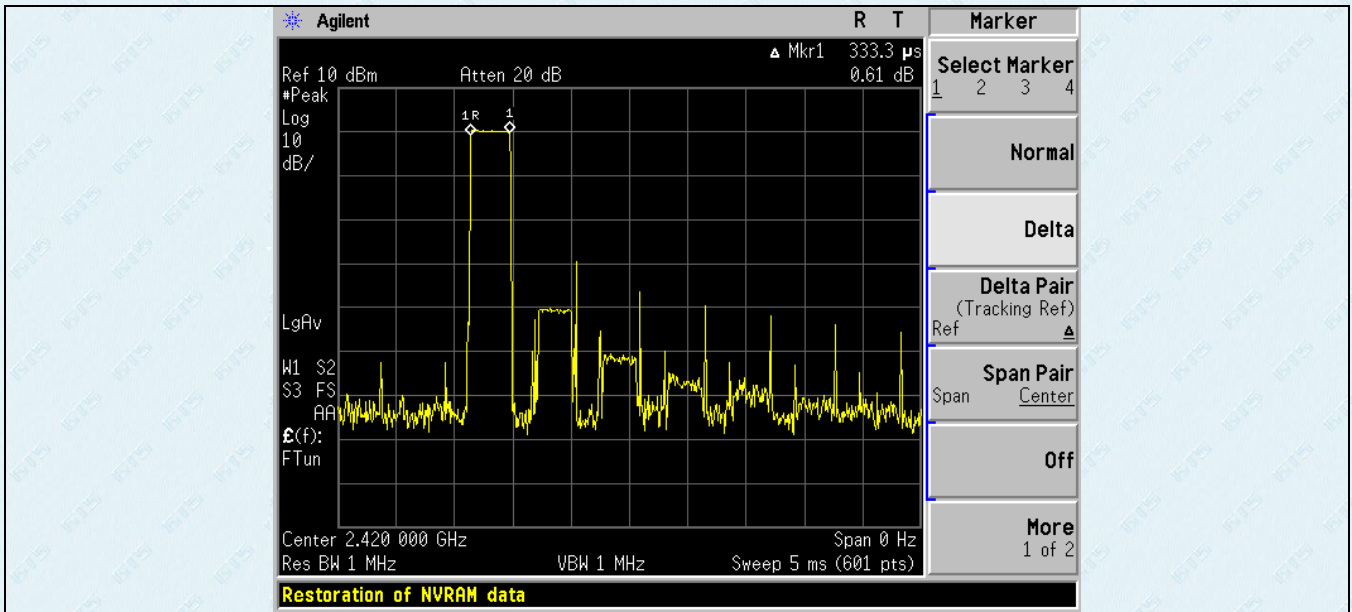
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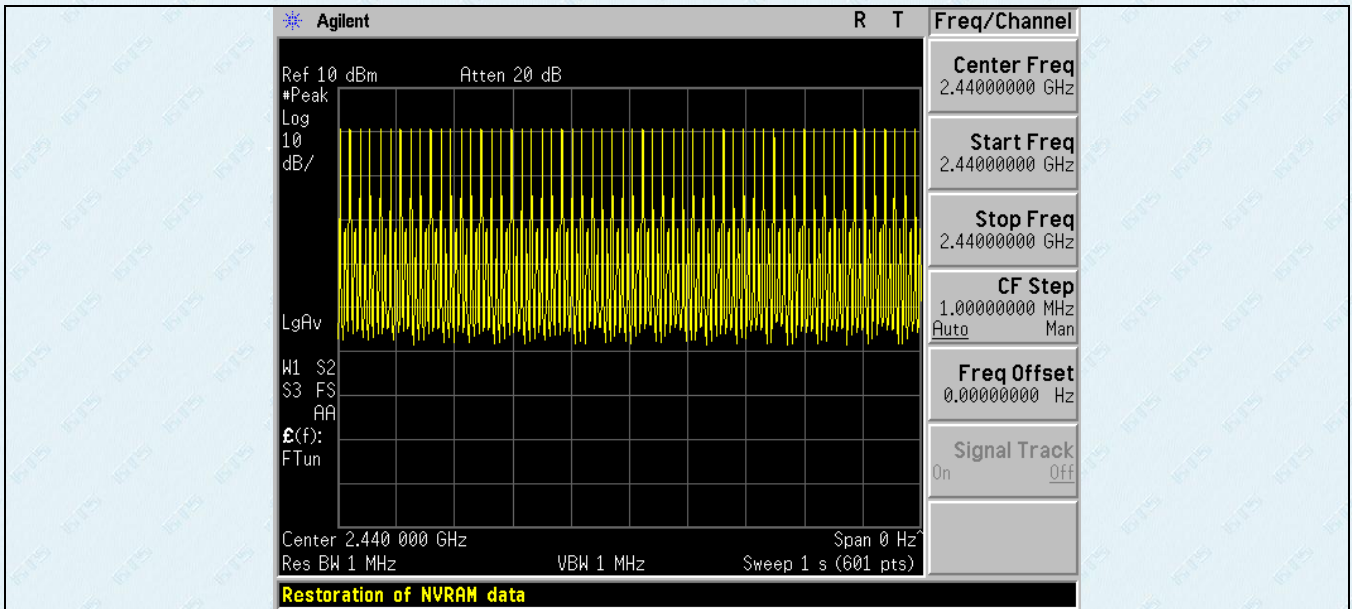
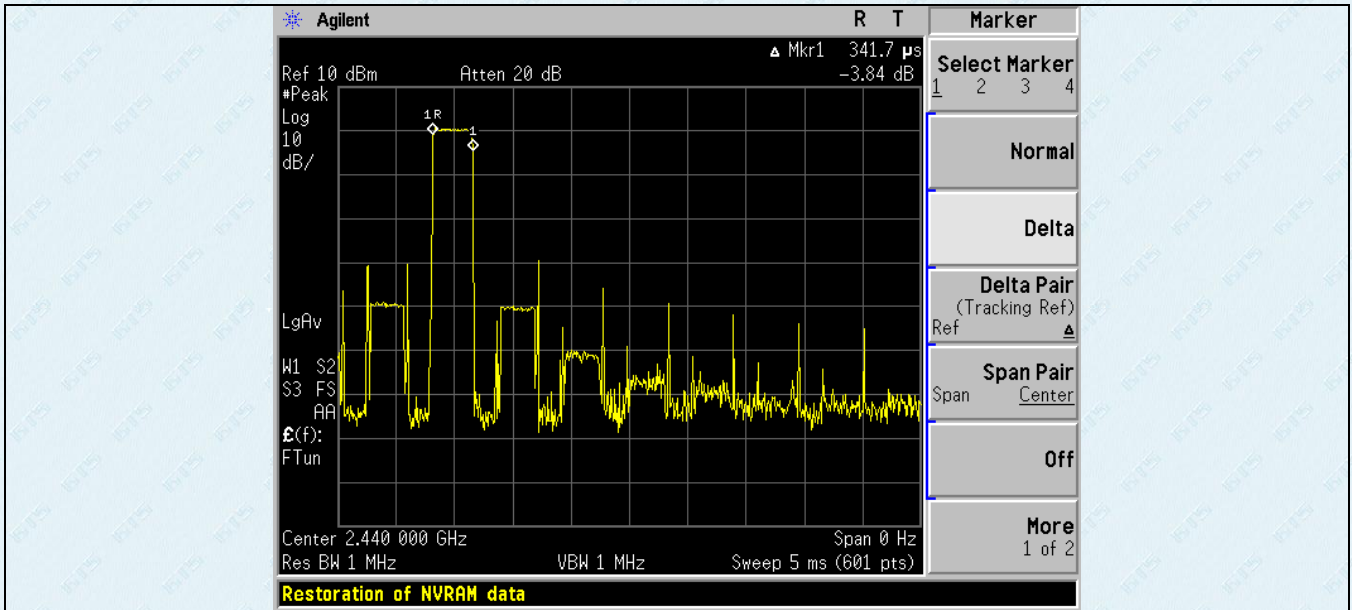


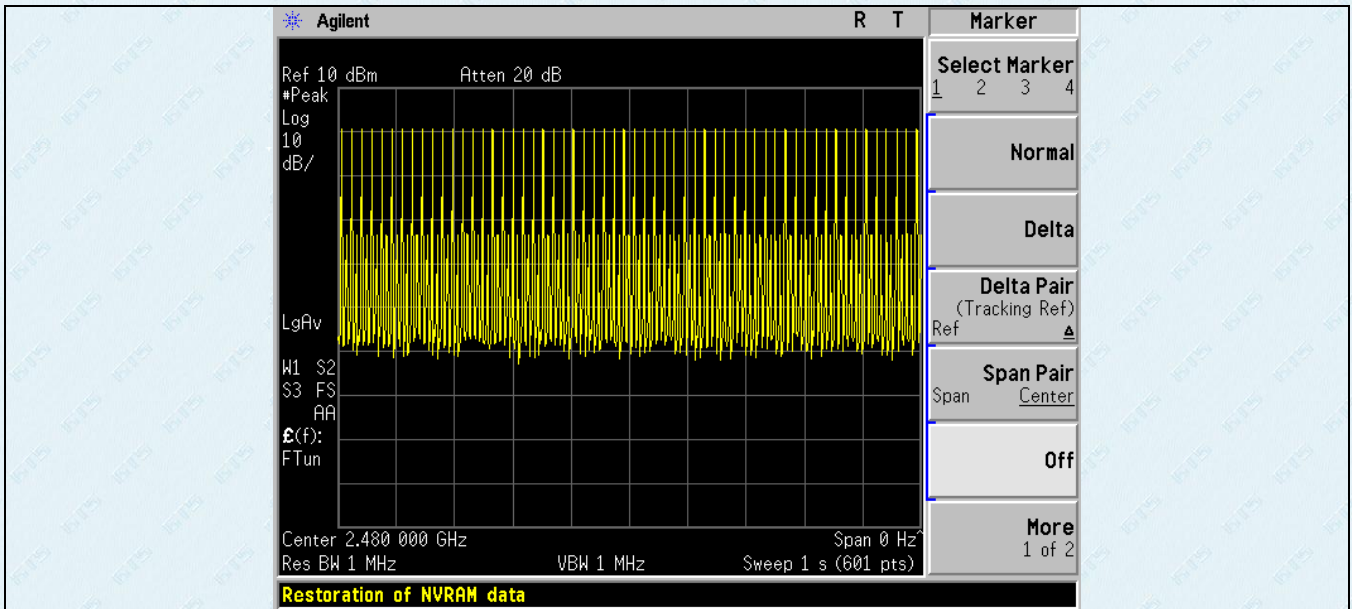
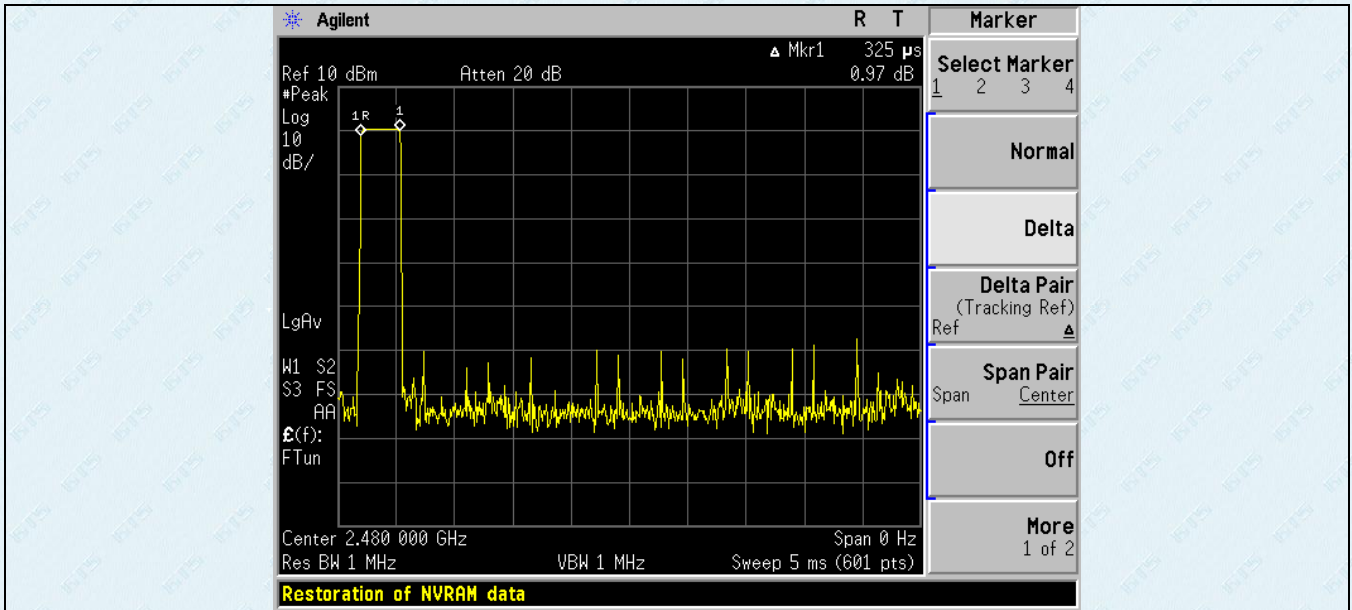




ANT 2:







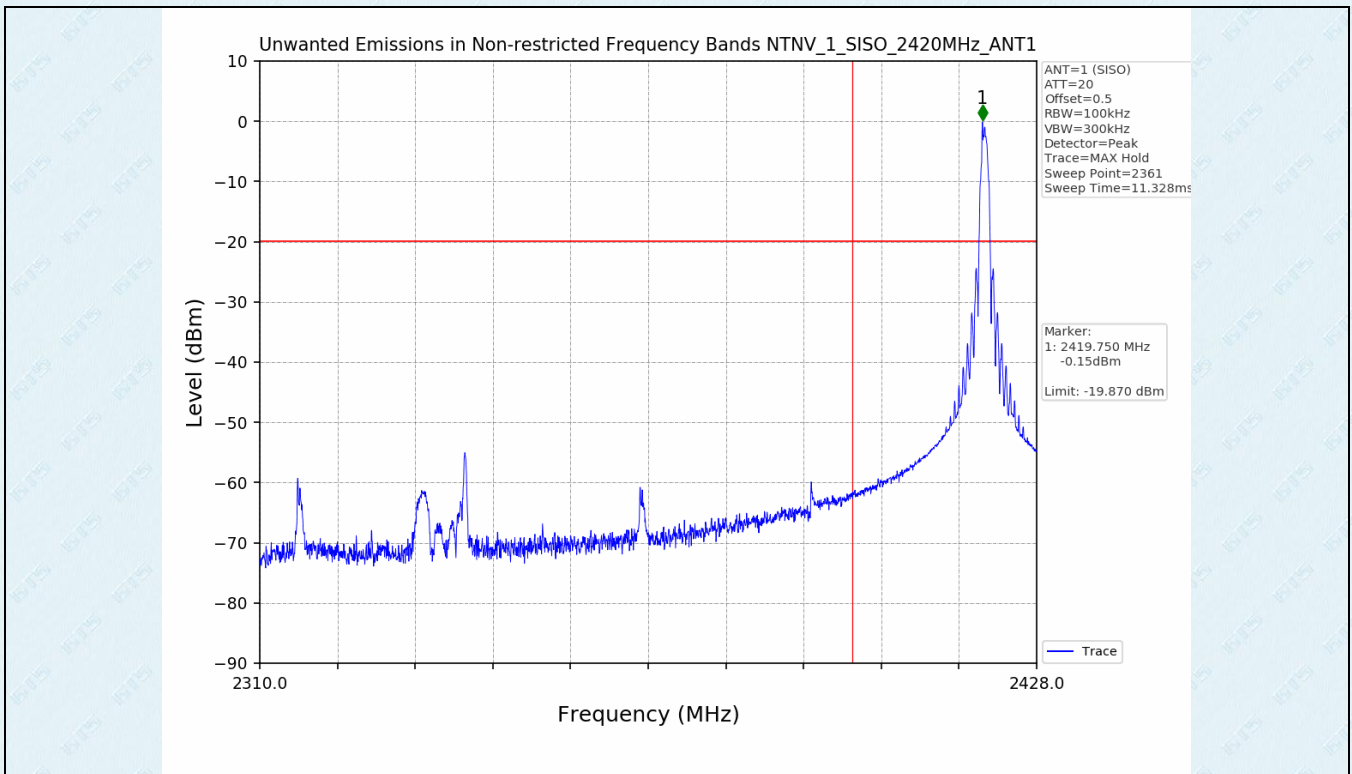
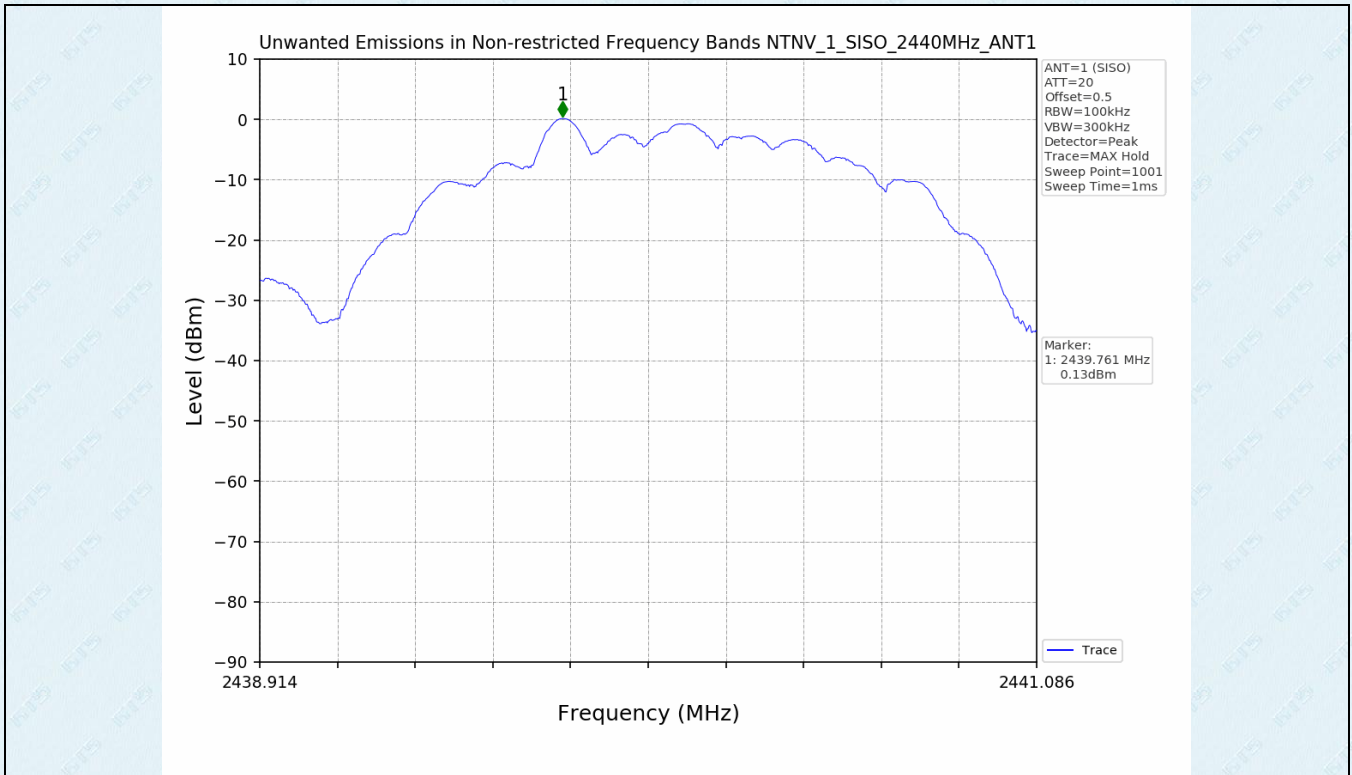
6. Unwanted Emissions in Non-restricted Frequency Bands

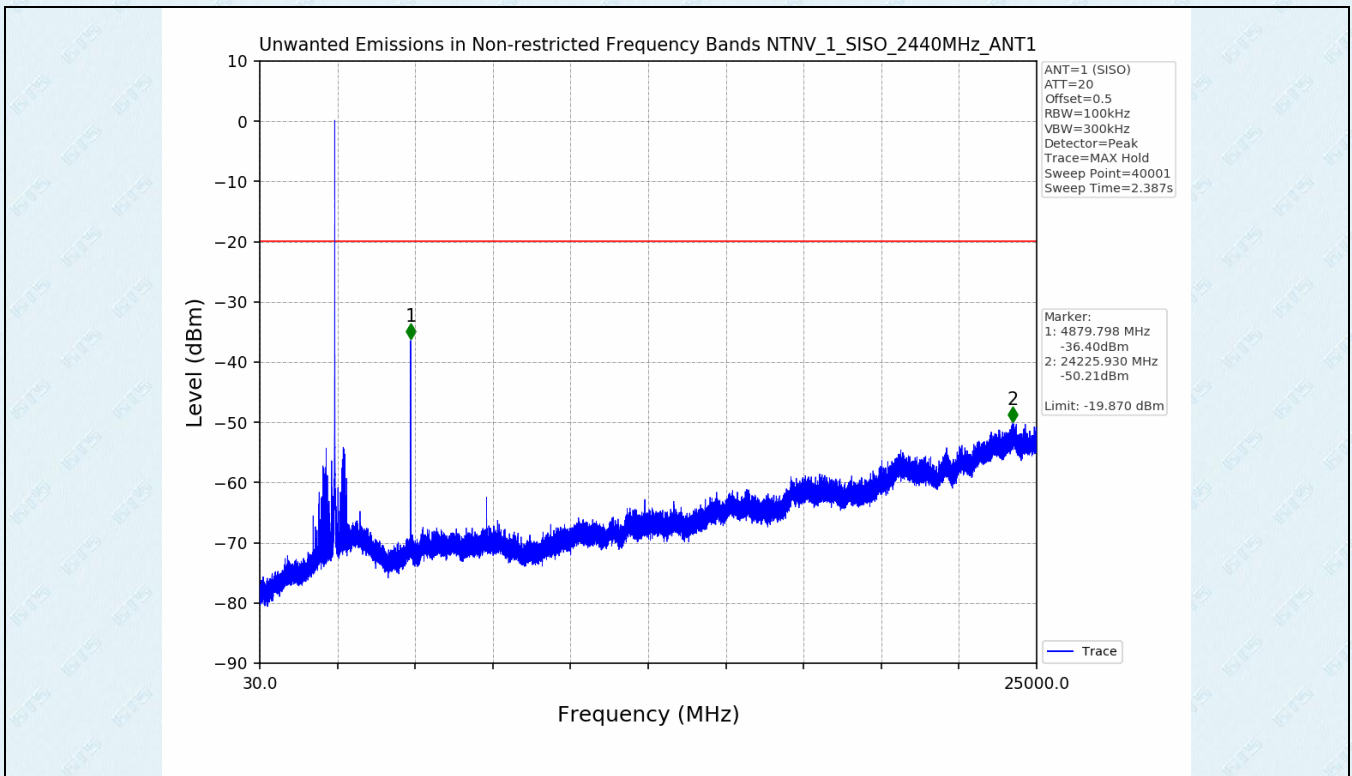
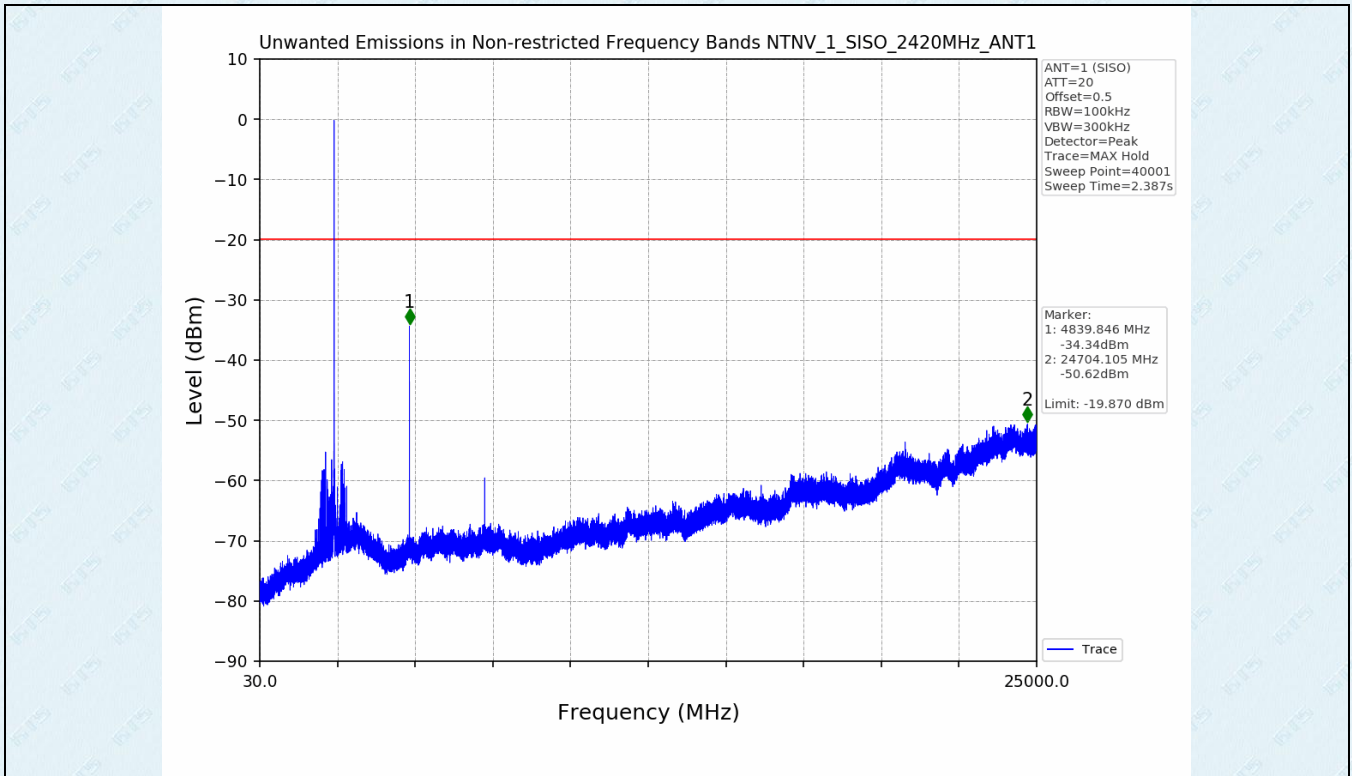
6.1 Test Result

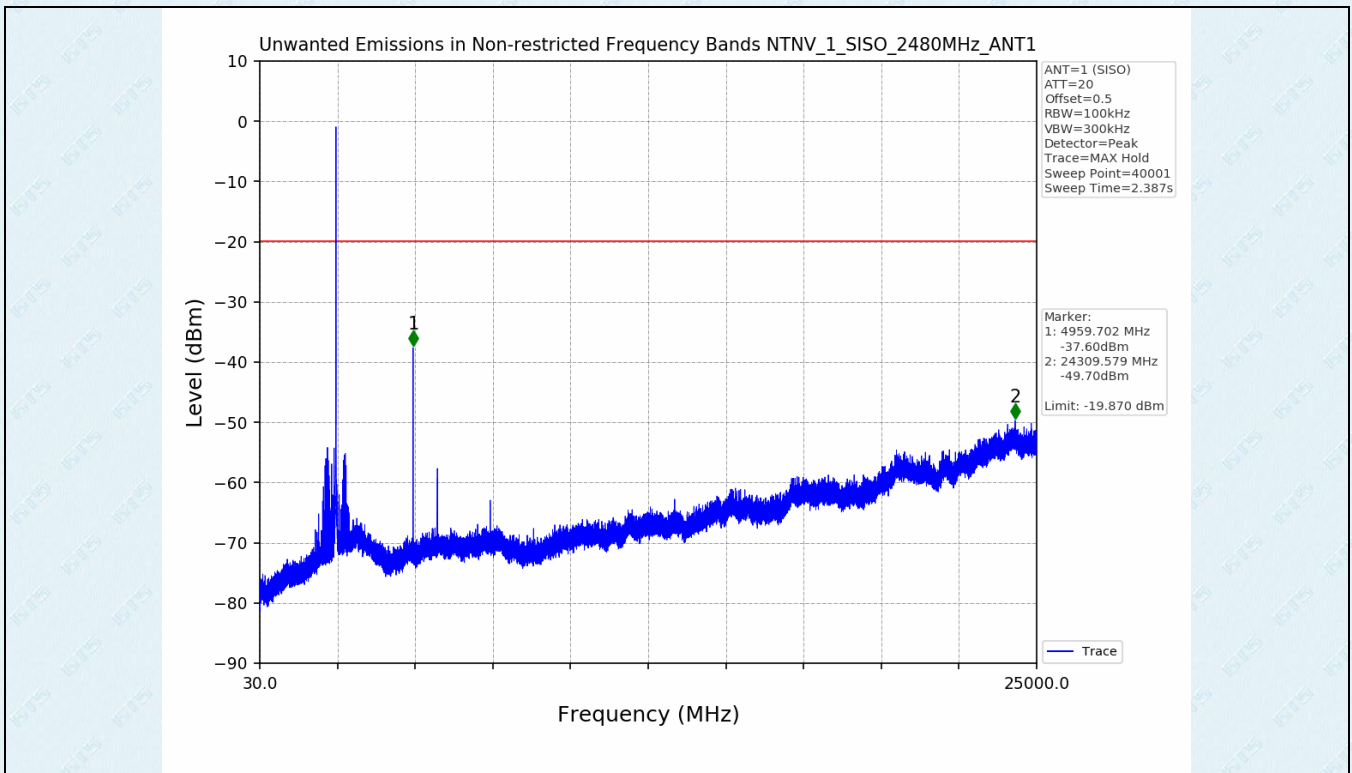
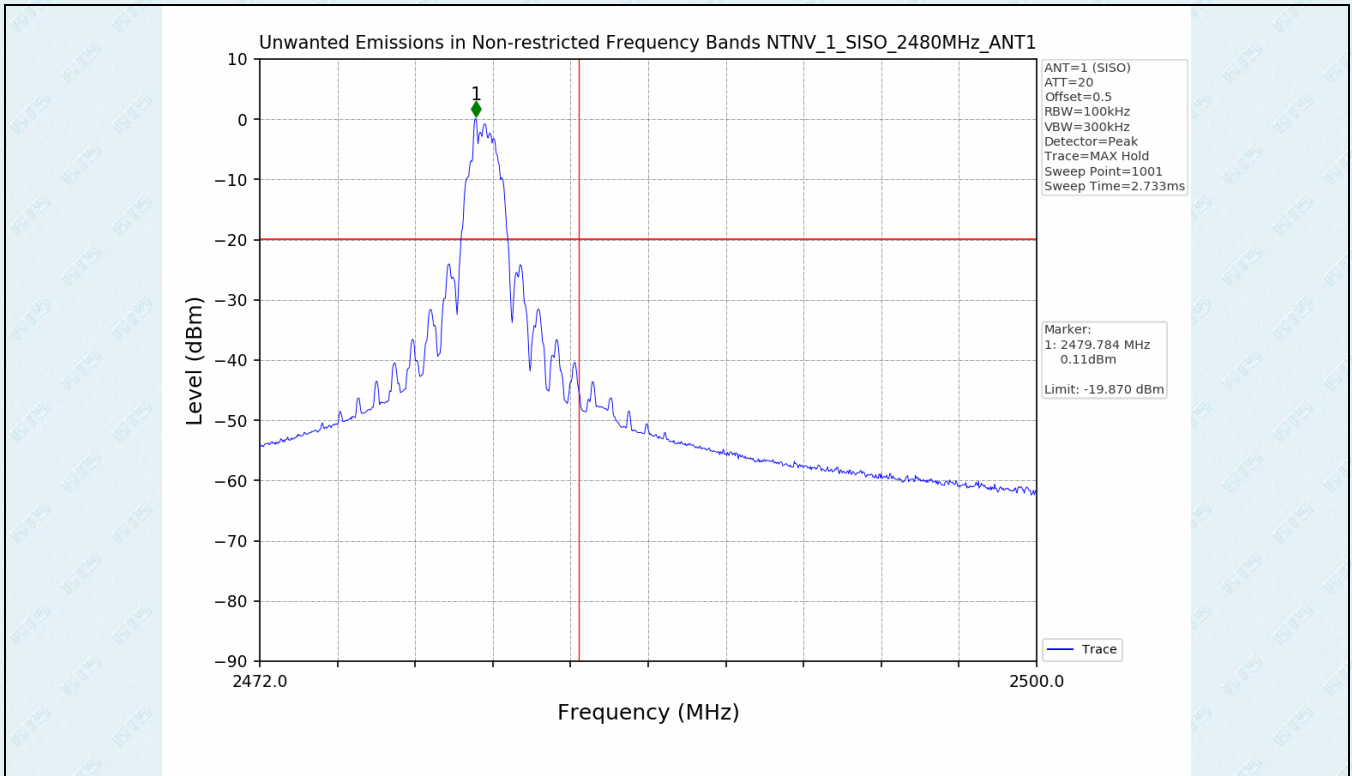
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
1	2420	SISO	1	Refer to test graph	-19.87	PASS
	2440	SISO	1	Refer to test graph	-19.87	PASS
	2480	SISO	1	Refer to test graph	-19.87	PASS
	Hopping	SISO	1	Refer to test graph	-19.87	PASS
2	2420	SISO	2	Refer to test graph	-19.94	PASS
	2440	SISO	2	Refer to test graph	-19.94	PASS
	2480	SISO	2	Refer to test graph	-19.94	PASS
	Hopping	SISO	2	Refer to test graph	-19.94	PASS

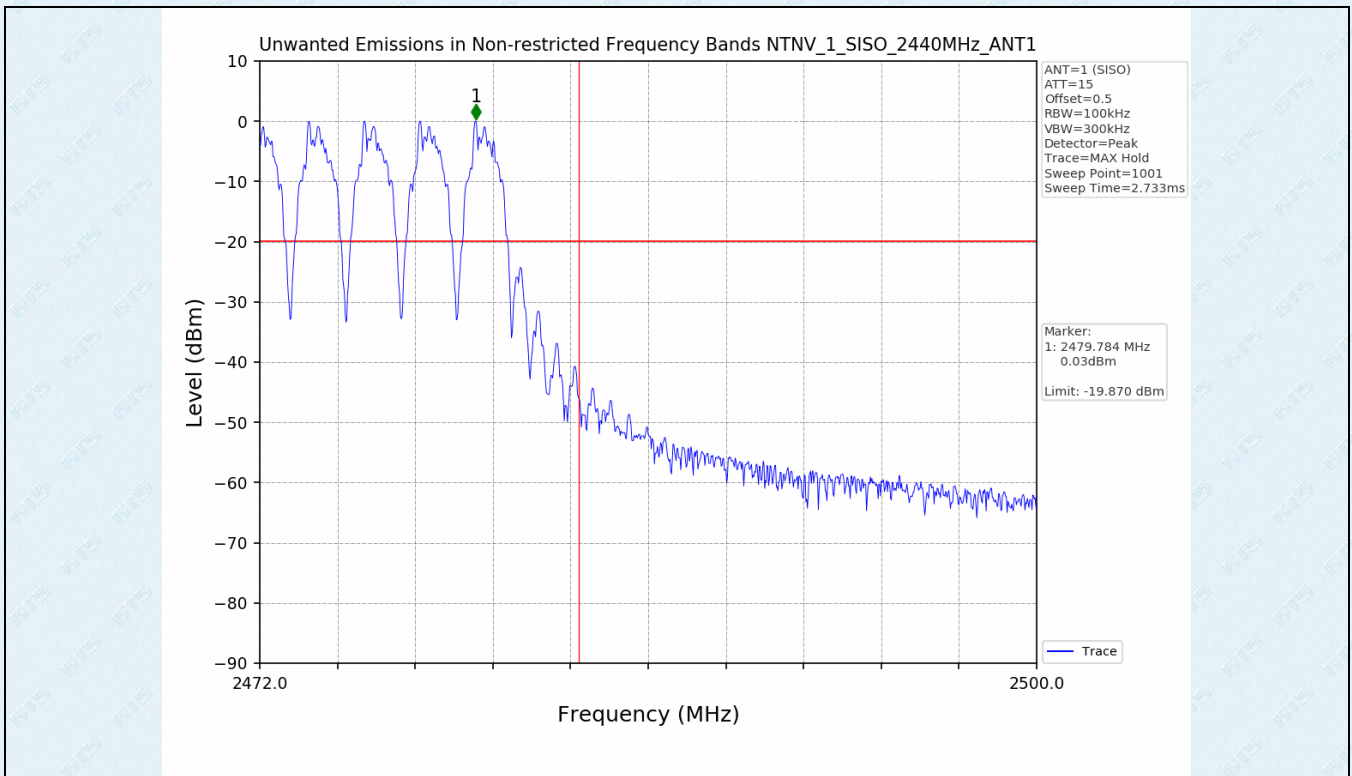
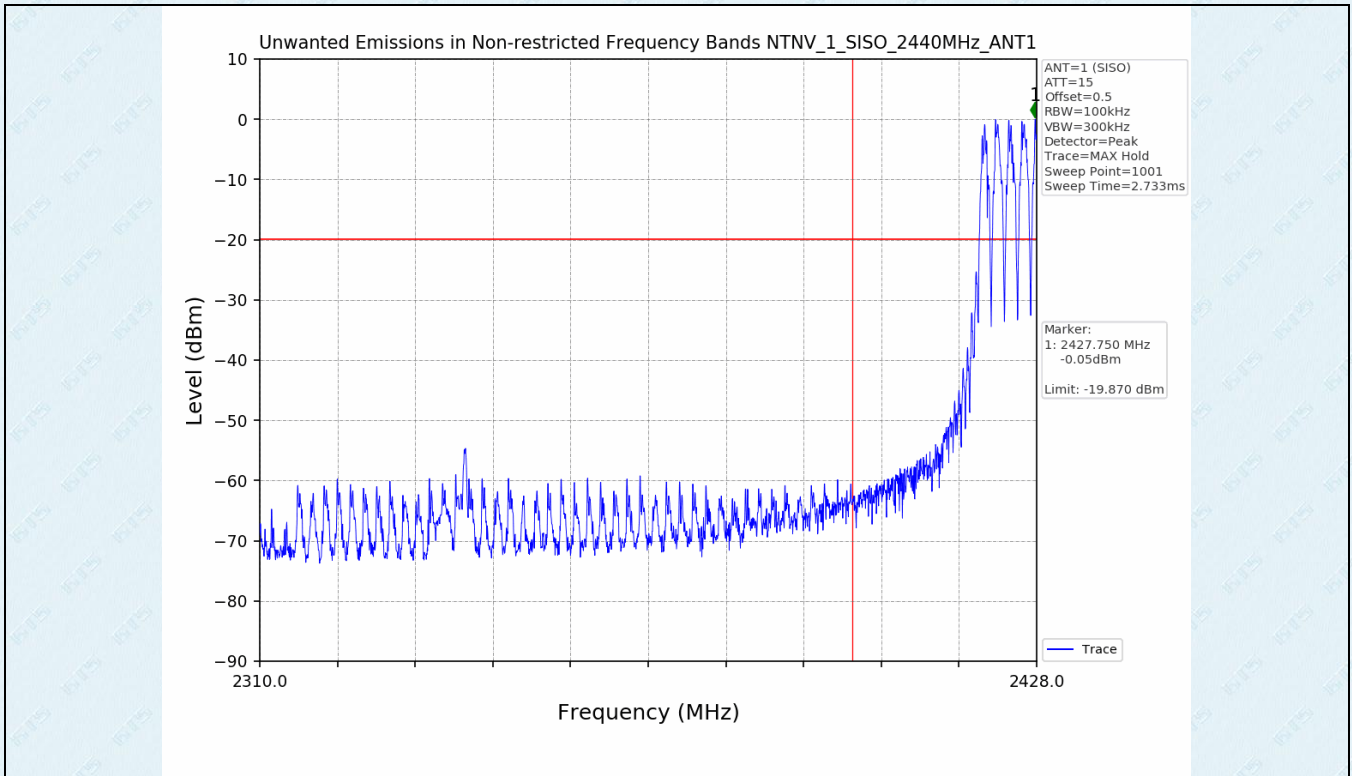
6.2 Test Graph

ANT 1:

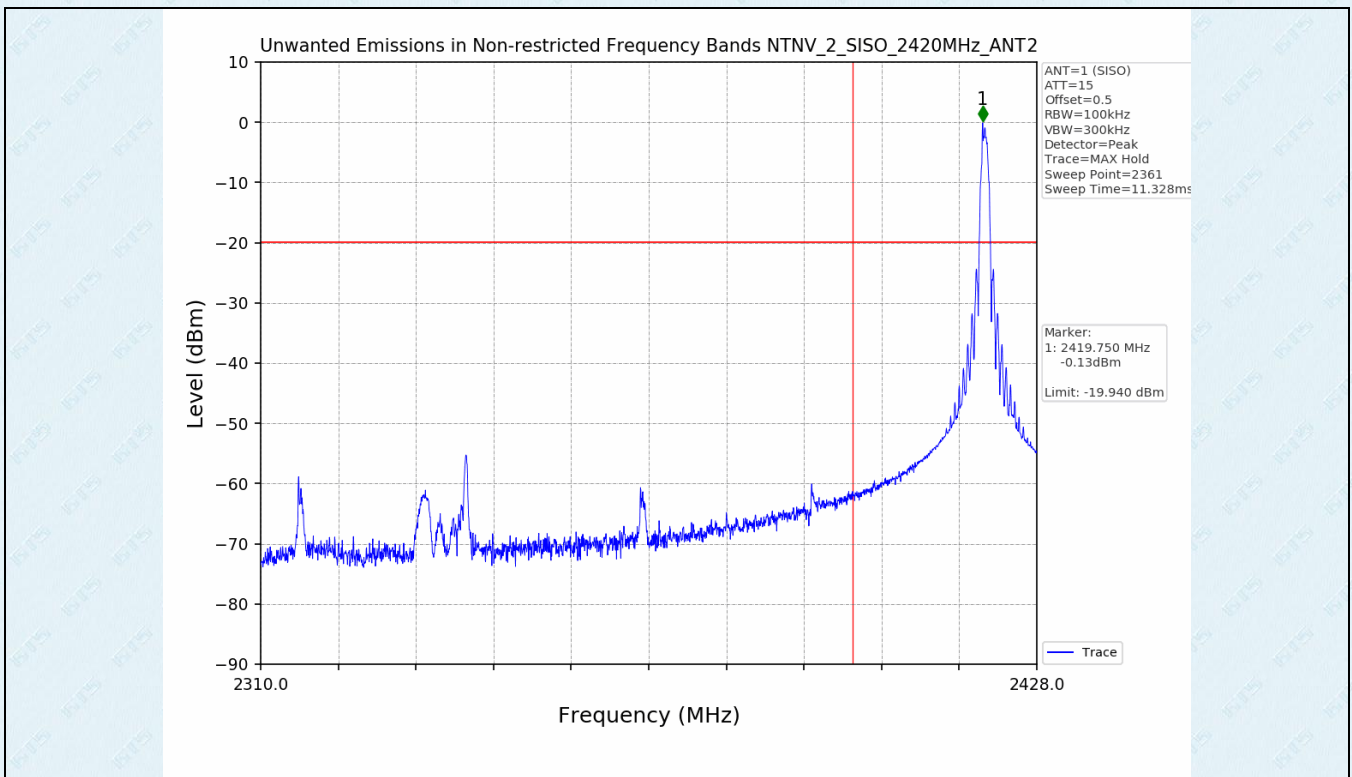
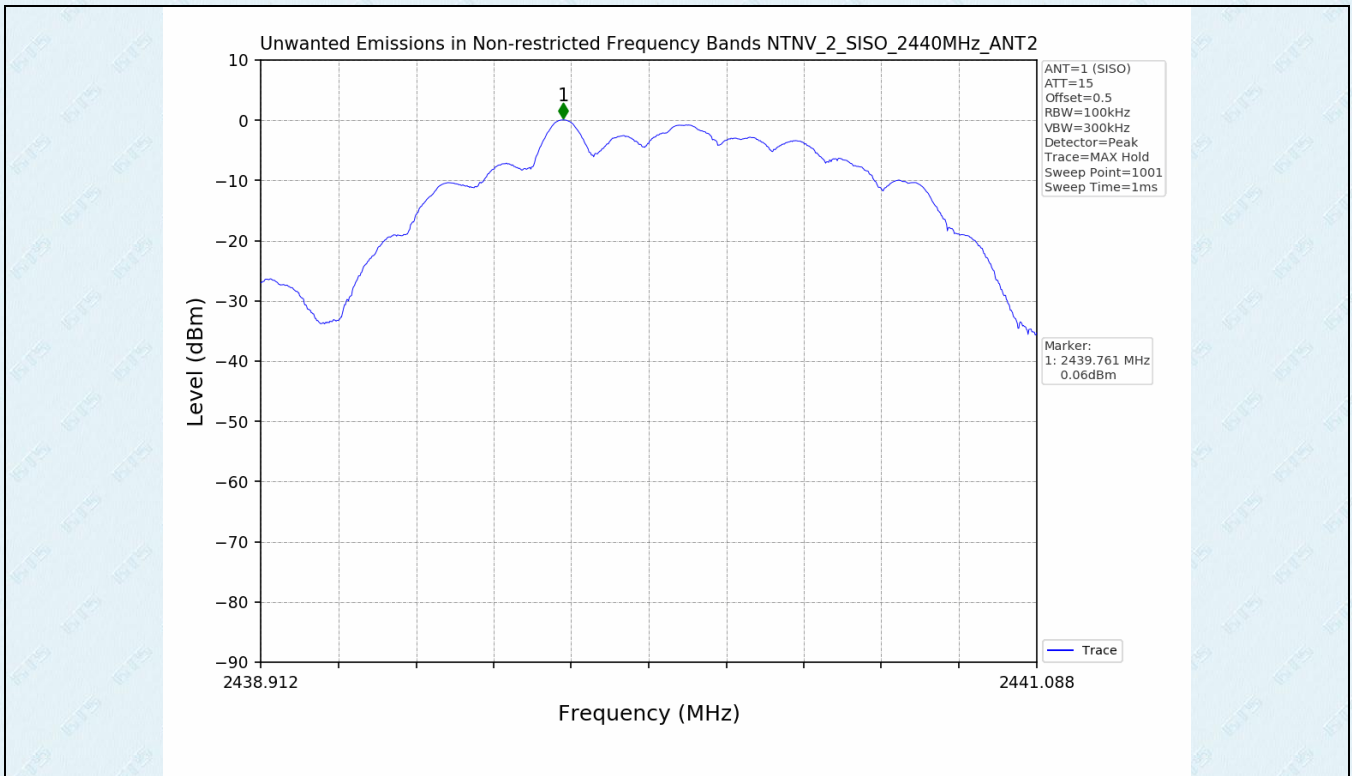


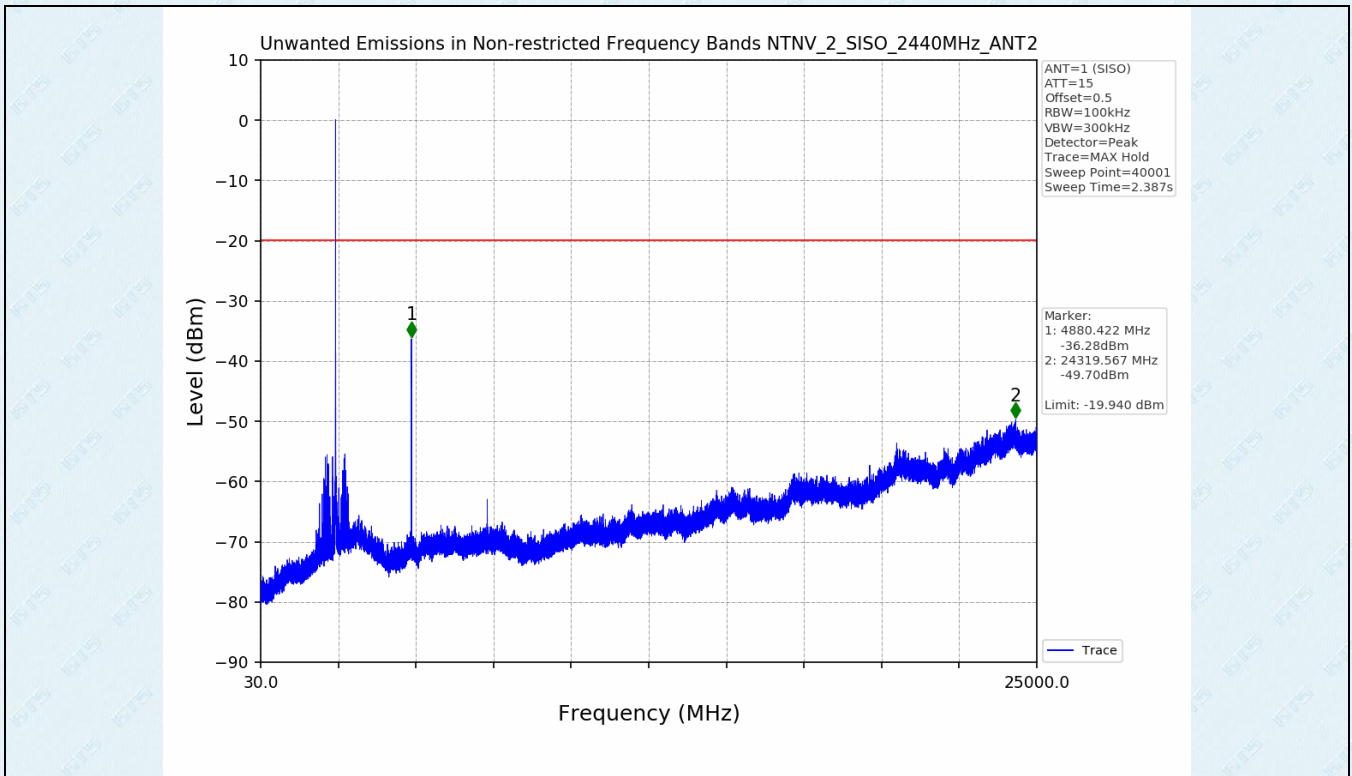
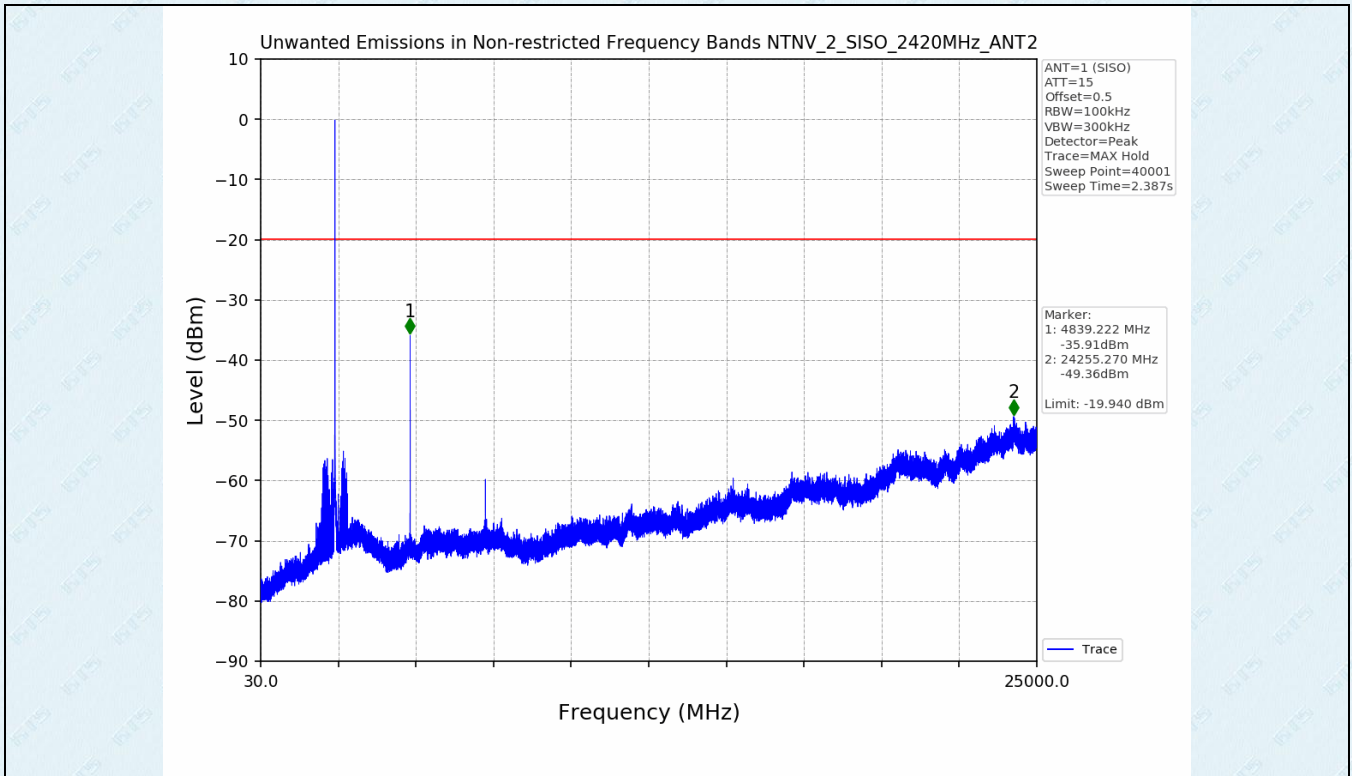


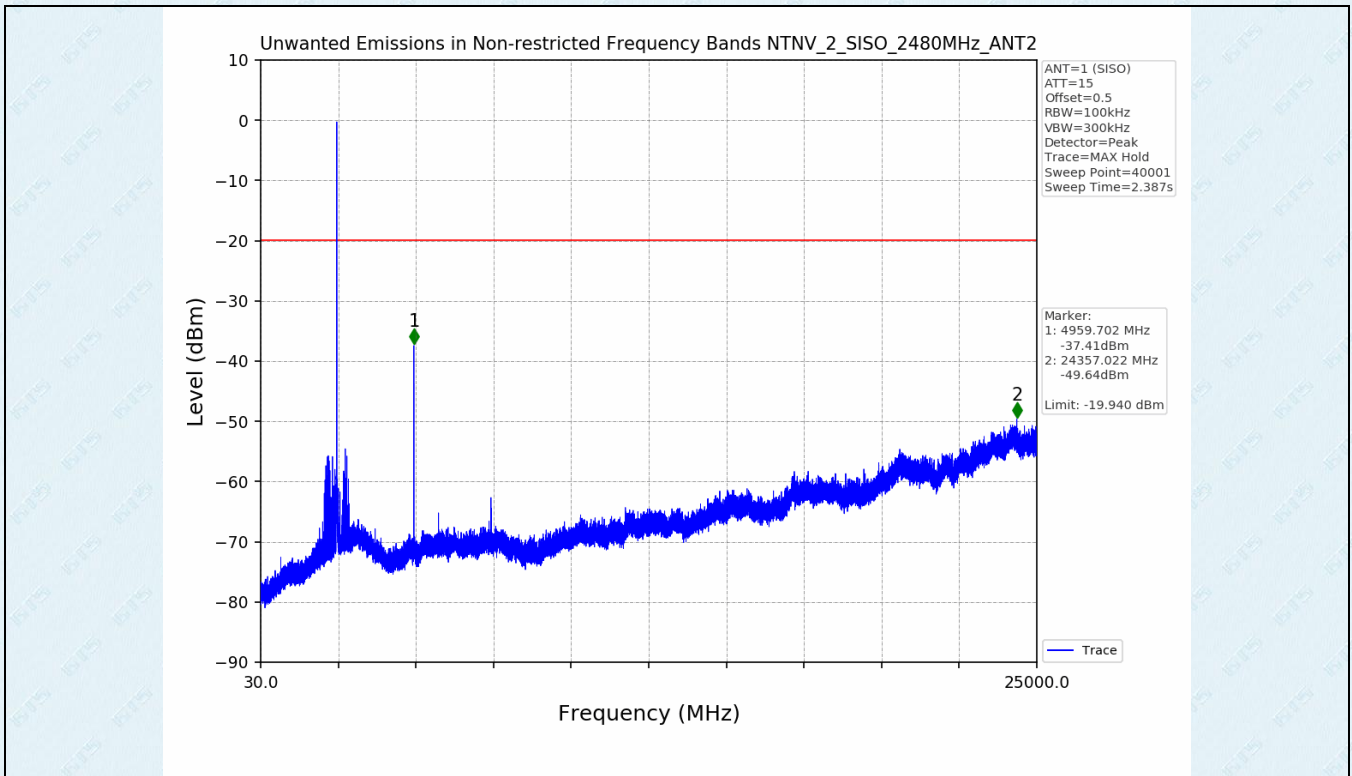
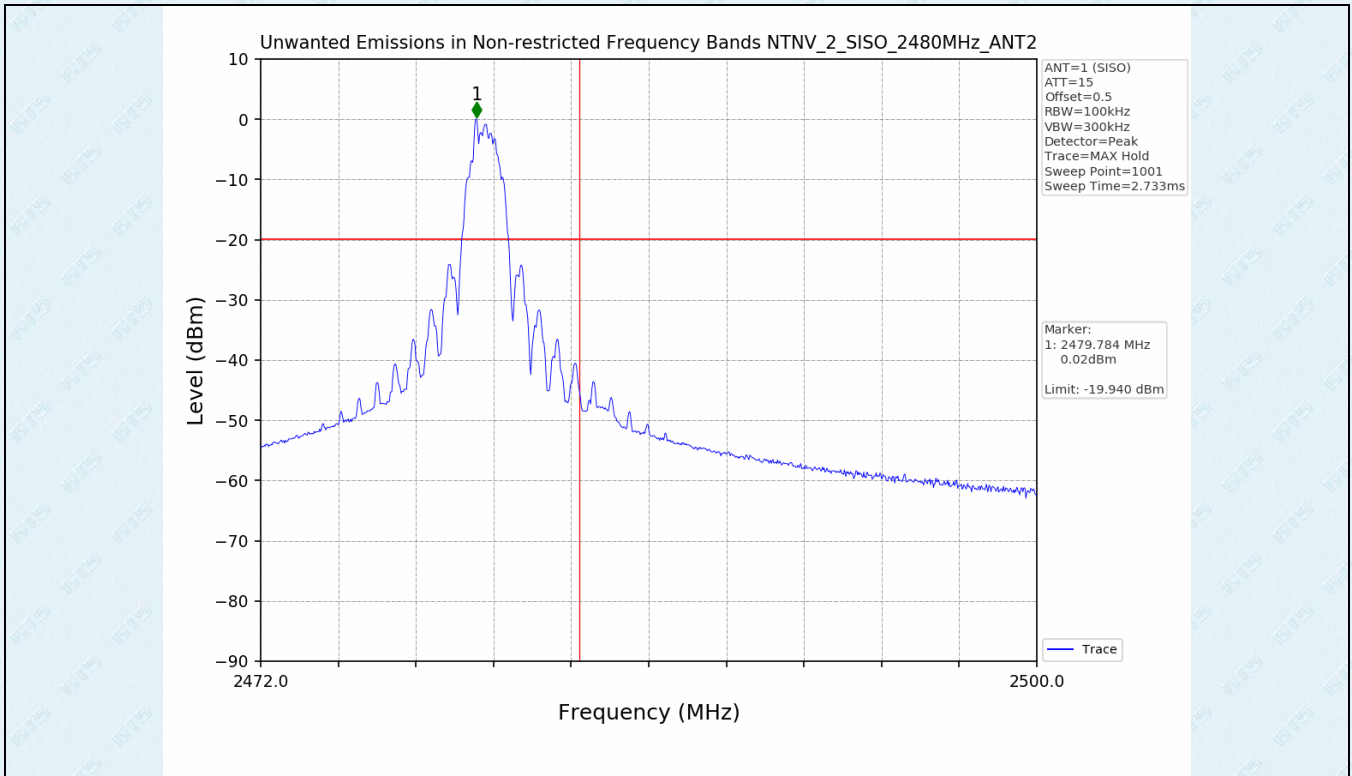


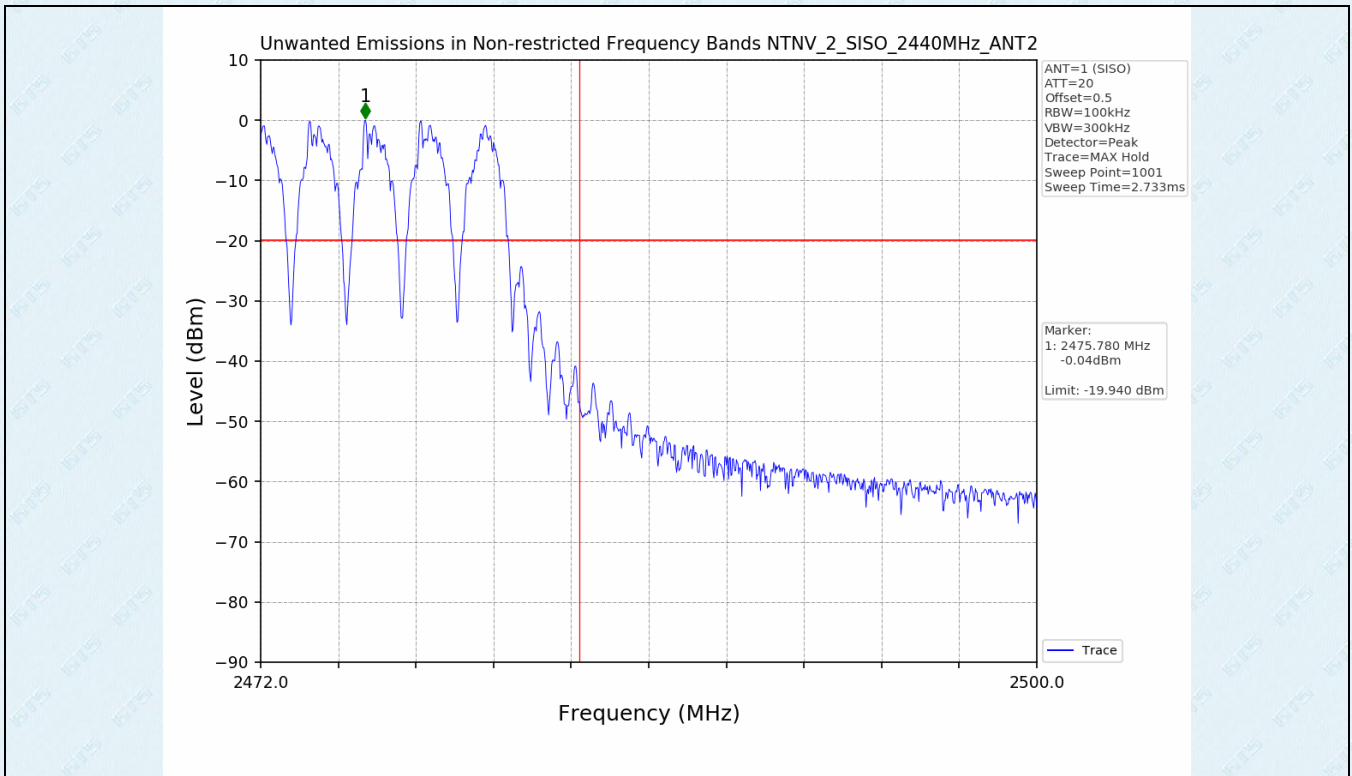
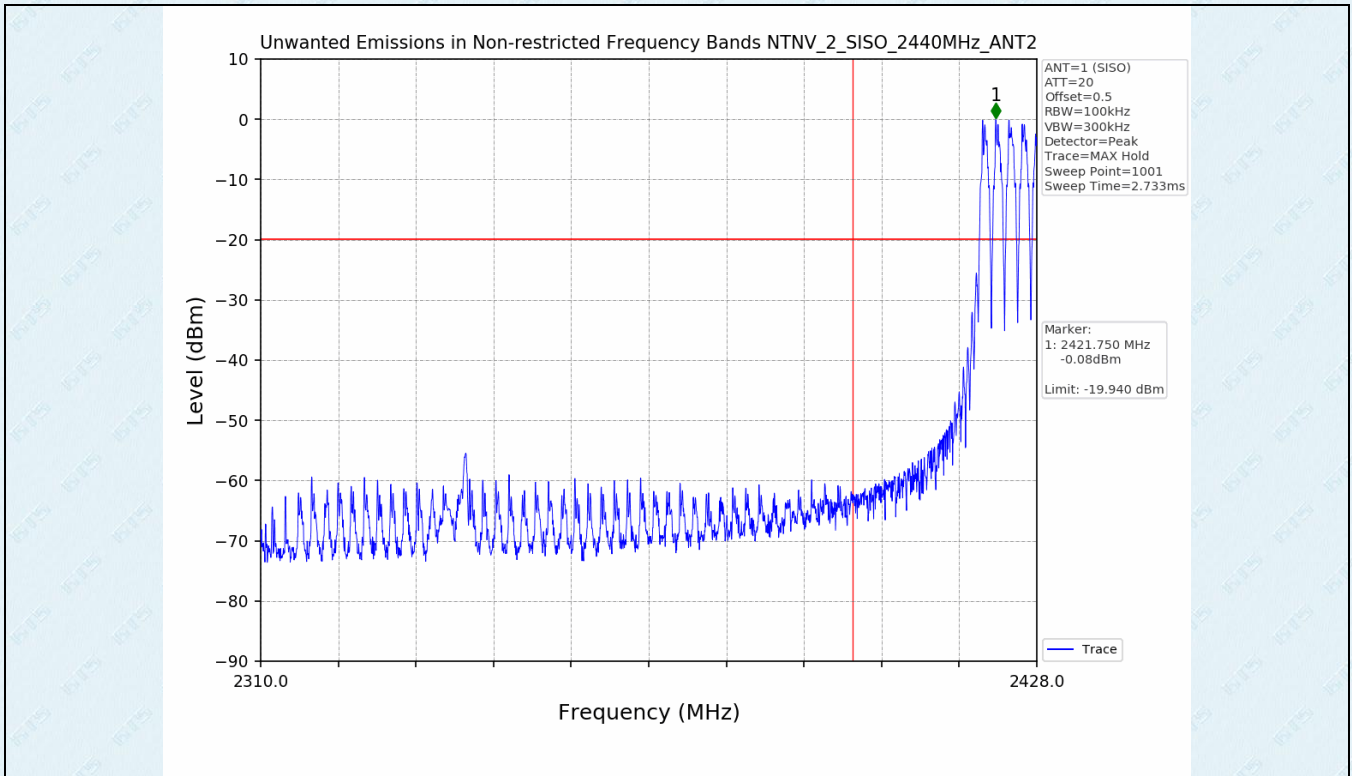


ANT 2:









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