

Appendix for 15.247

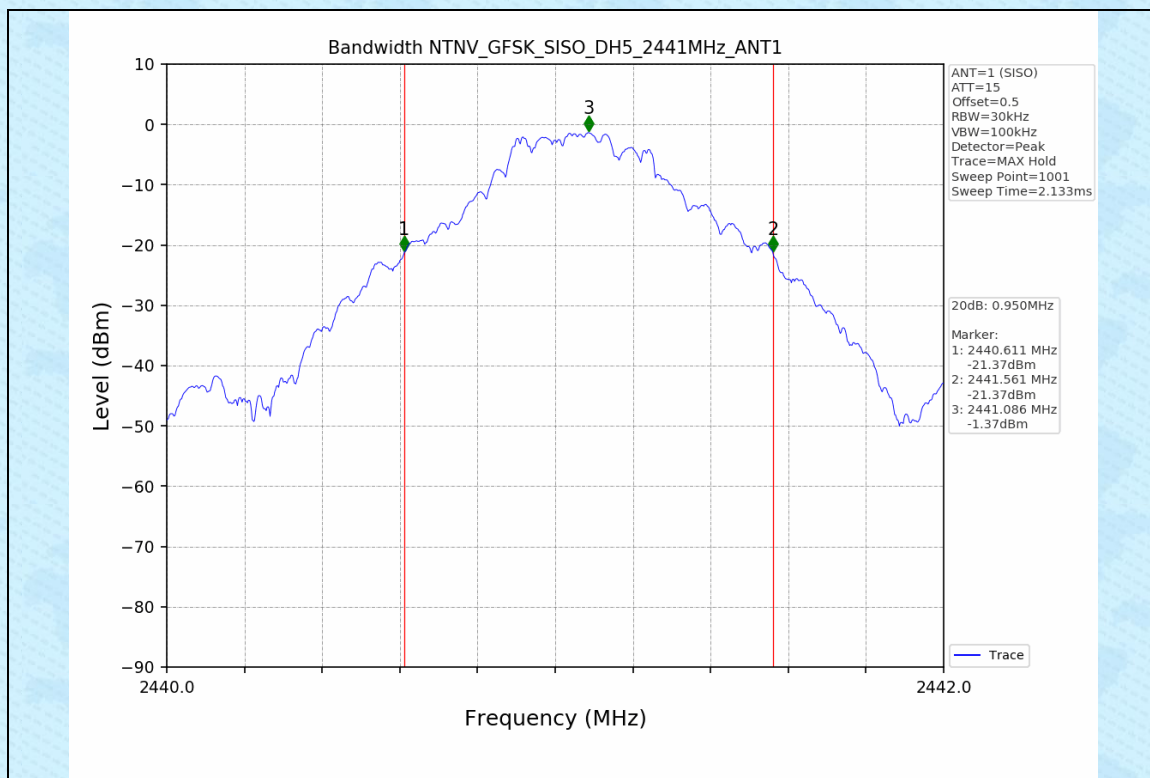
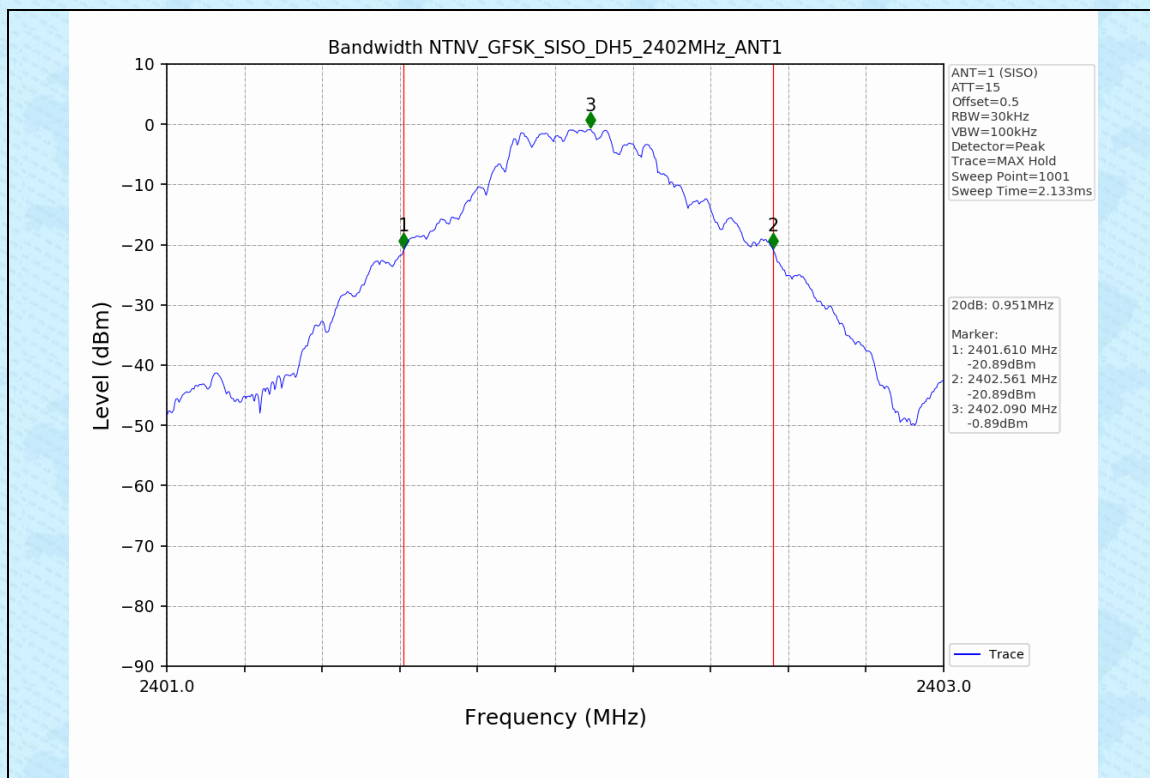
1. Bandwidth

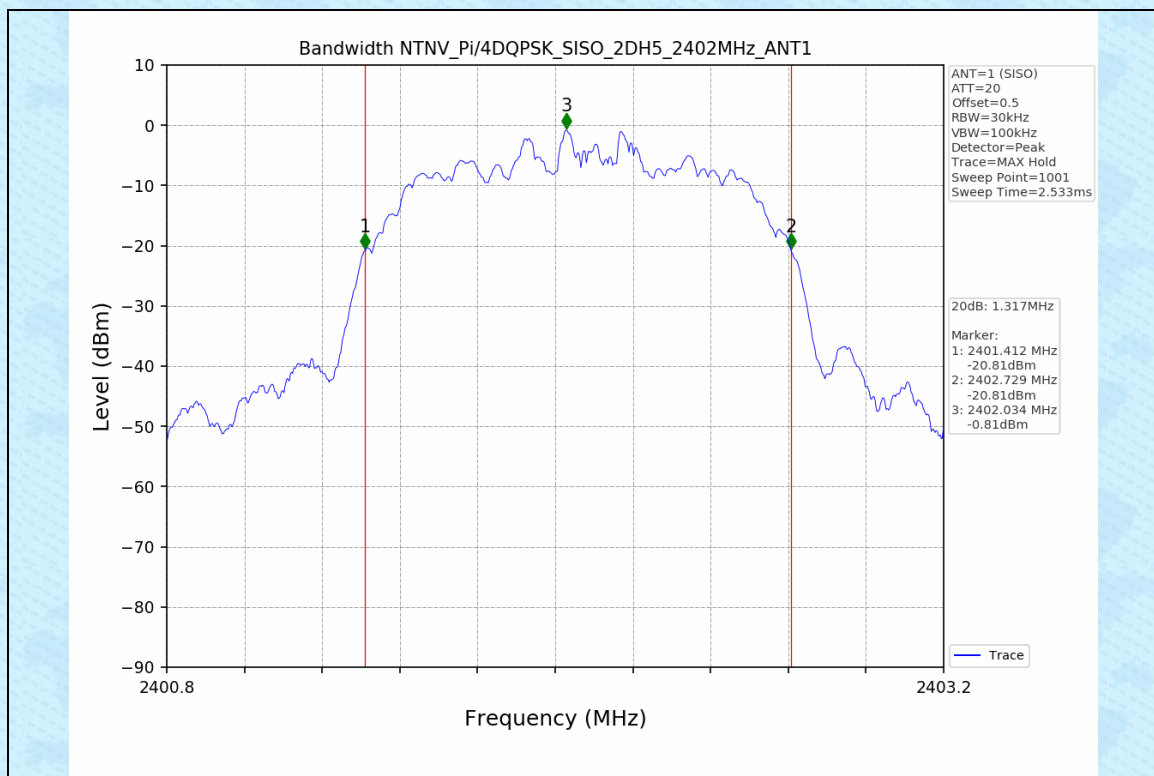
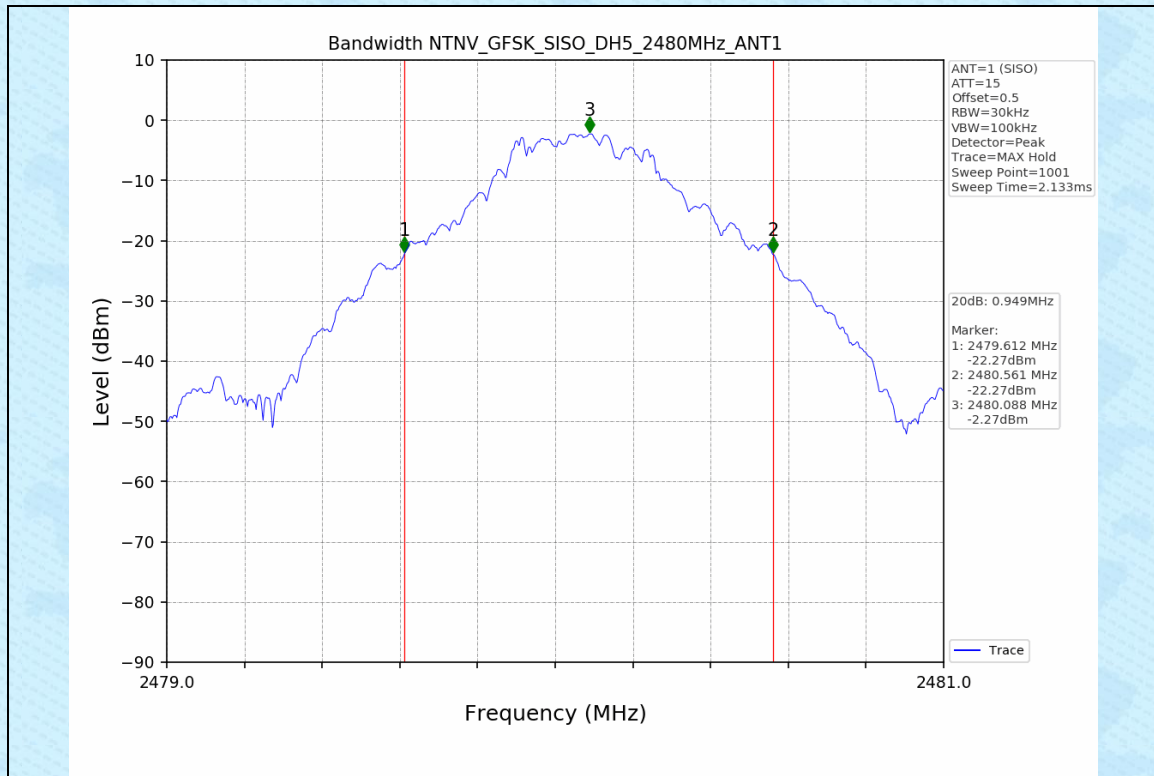
1.1 Test Result

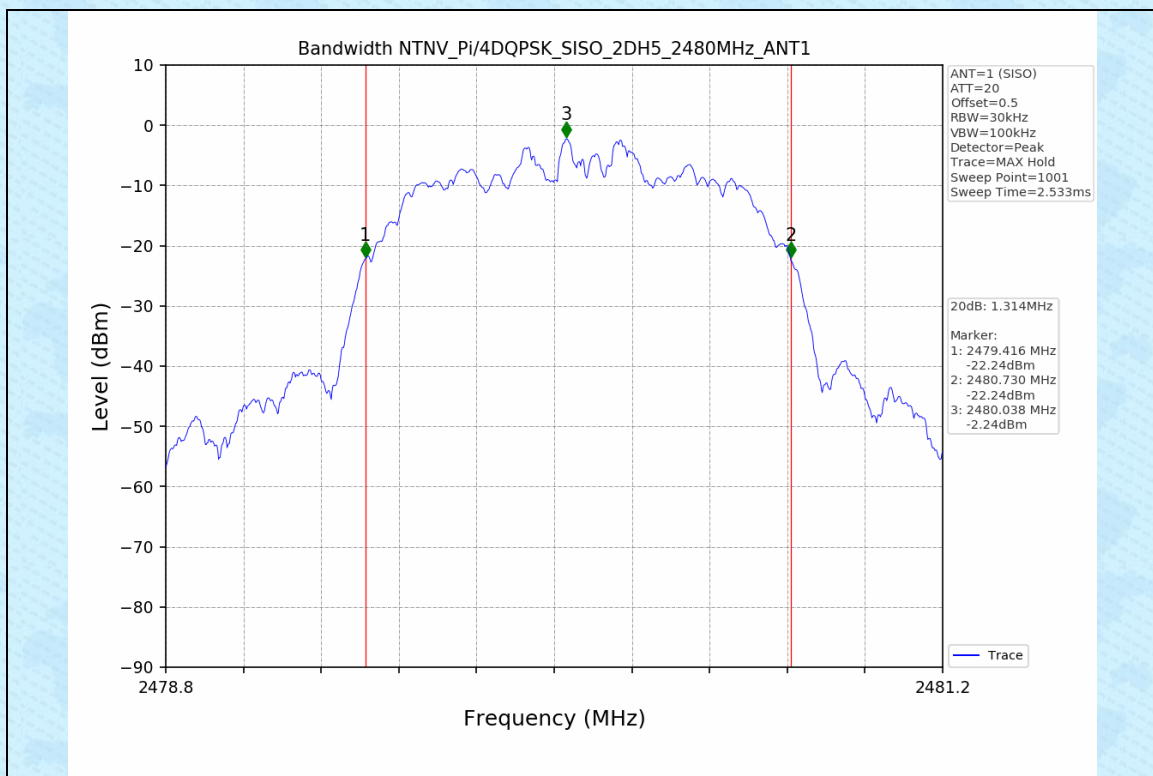
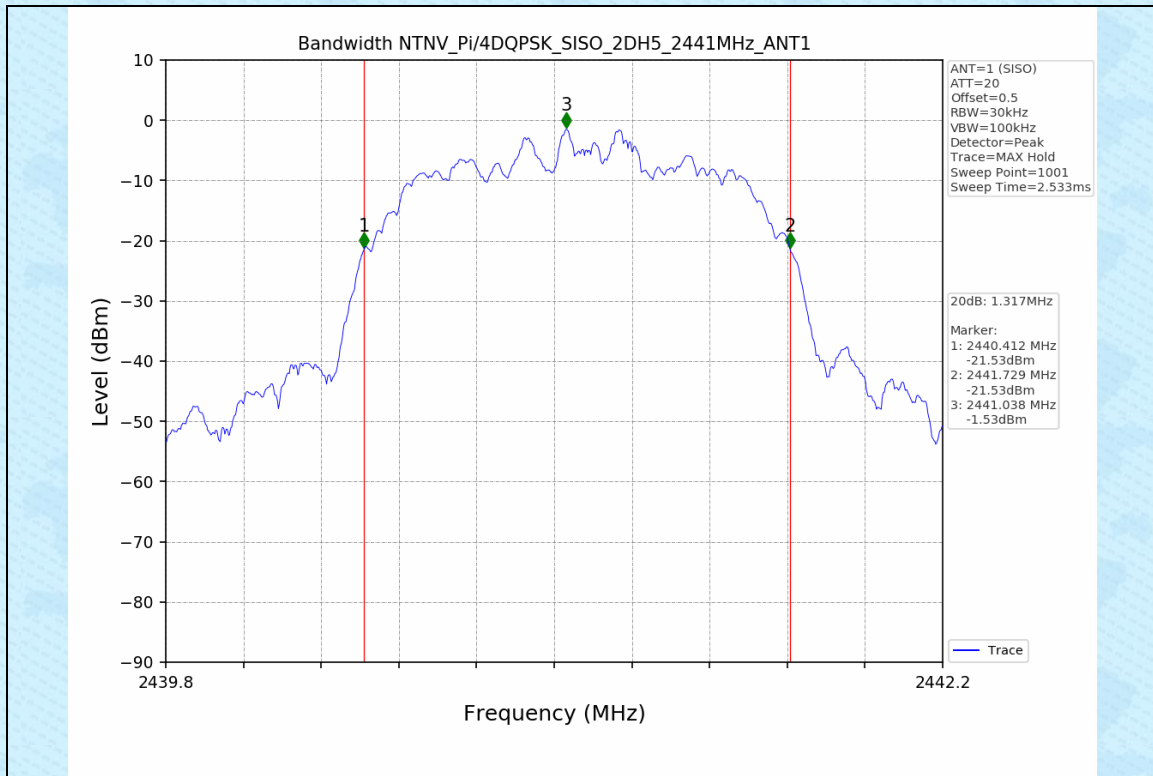
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	ANT1	0.951	PASS
	2441	SISO	ANT1	0.950	PASS
	2480	SISO	ANT1	0.949	PASS
$\pi/4$ -DQPSK	2402	SISO	ANT1	1.317	PASS
	2441	SISO	ANT1	1.317	PASS
	2480	SISO	ANT1	1.314	PASS
8-DPSK	2402	SISO	ANT1	1.307	PASS
	2441	SISO	ANT1	1.309	PASS
	2480	SISO	ANT1	1.307	PASS

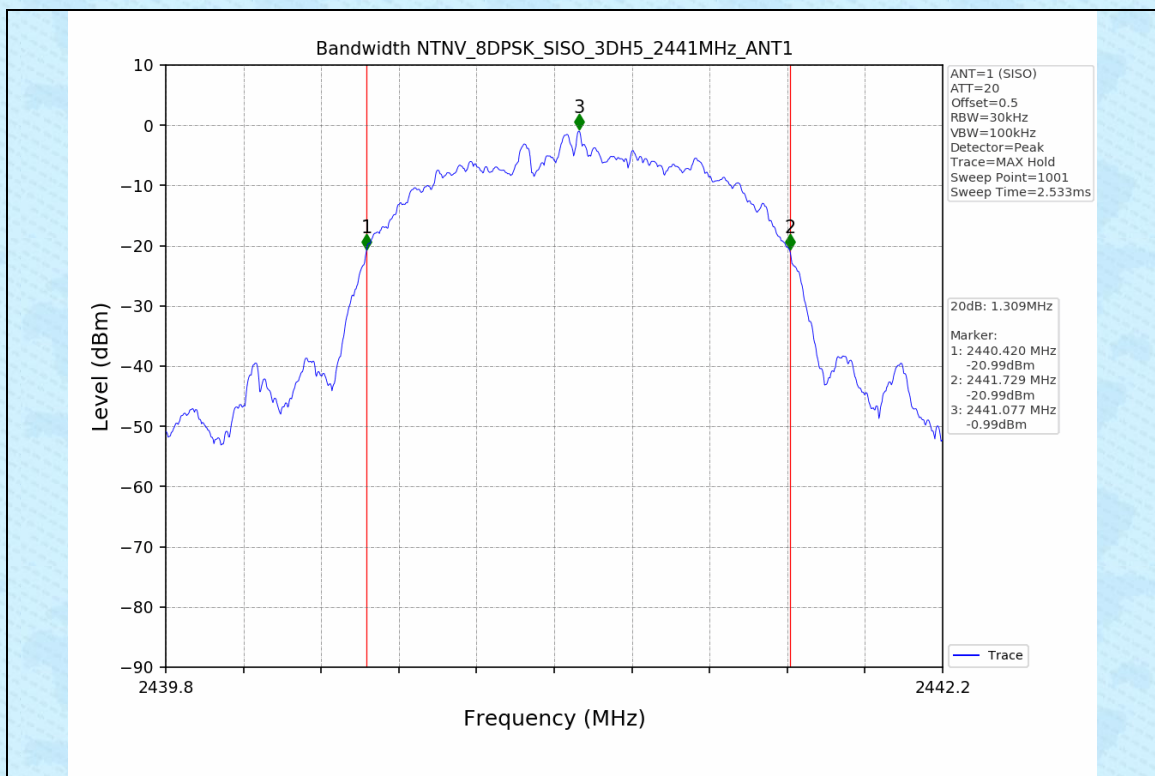
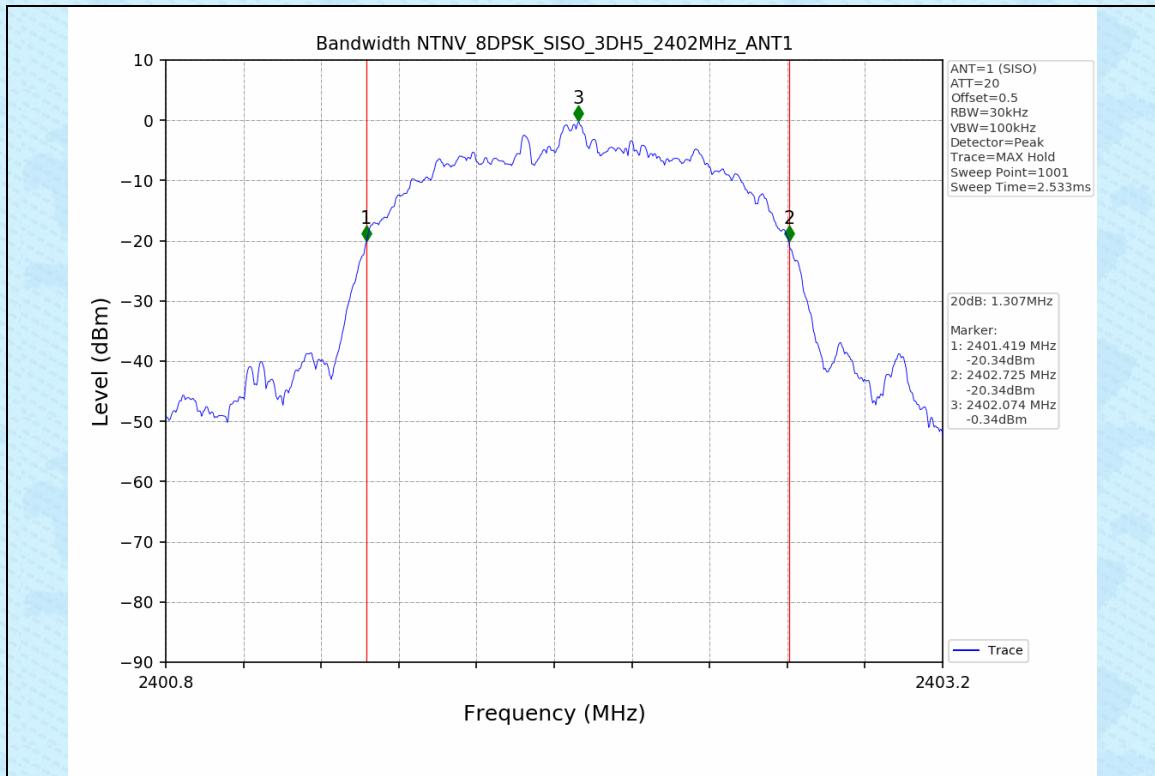
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.833	Only for Report Use
	2441	SISO	1	0.829	Only for Report Use
	2480	SISO	1	0.833	Only for Report Use
$\pi/4$ -DQPSK	2402	SISO	1	1.173	Only for Report Use
	2441	SISO	1	1.174	Only for Report Use
	2480	SISO	1	1.173	Only for Report Use
8-DPSK	2402	SISO	1	1.172	Only for Report Use
	2441	SISO	1	1.175	Only for Report Use
	2480	SISO	1	1.171	Only for Report Use

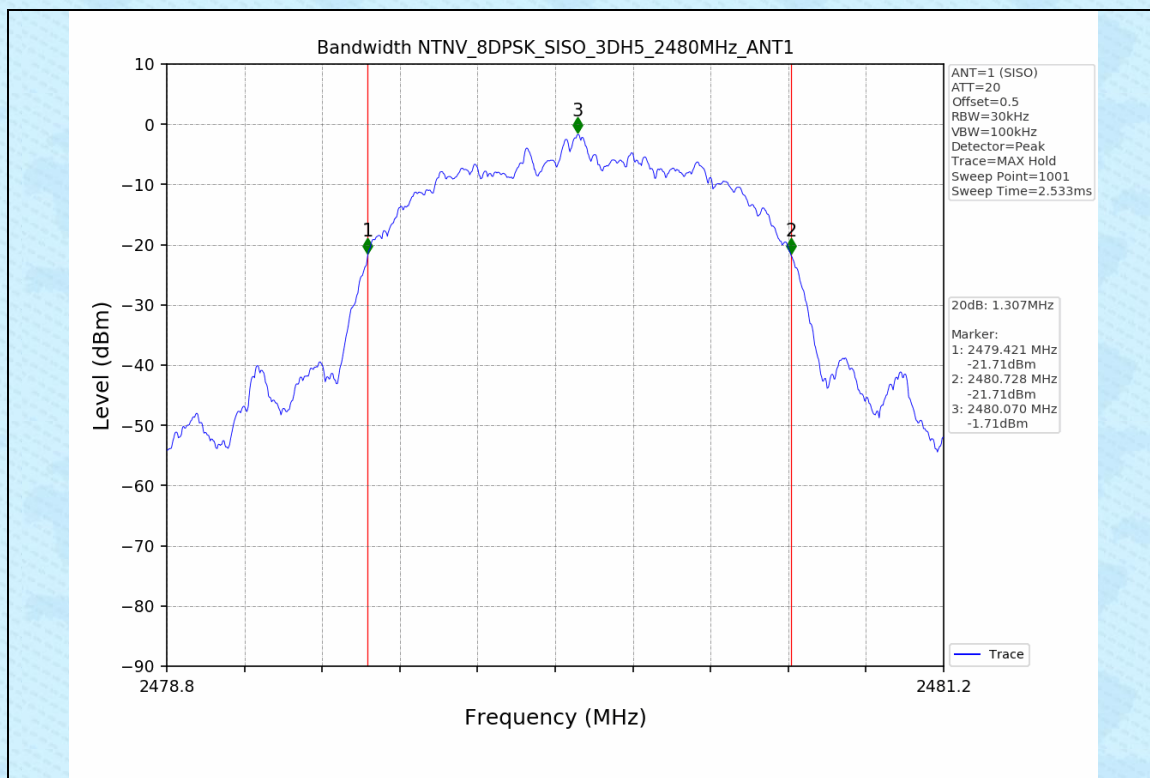
1.2 Test Graph - 20dB Bandwidth



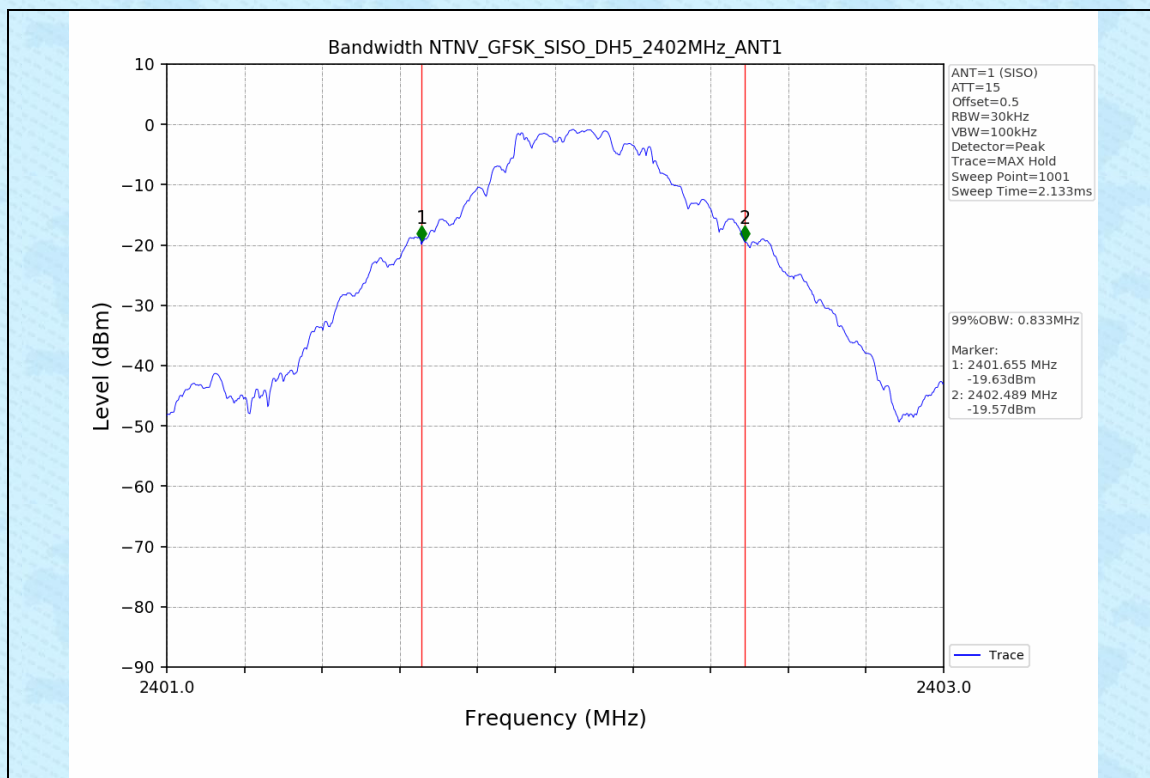


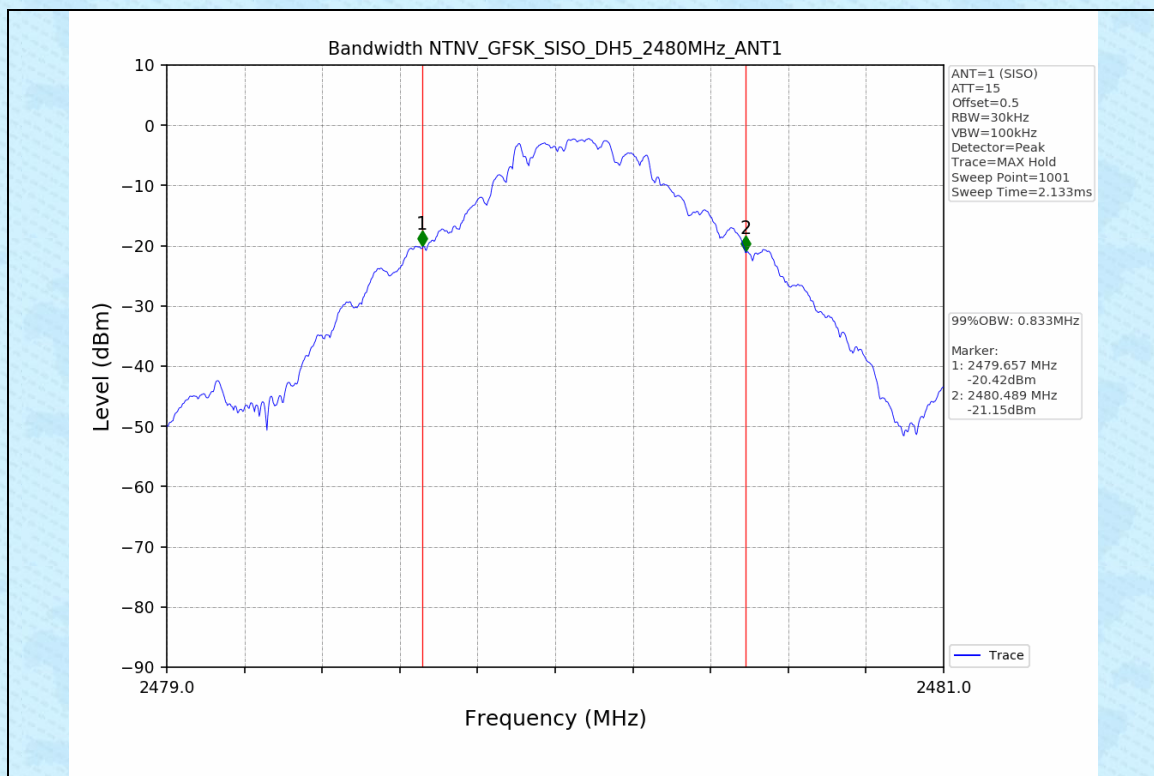
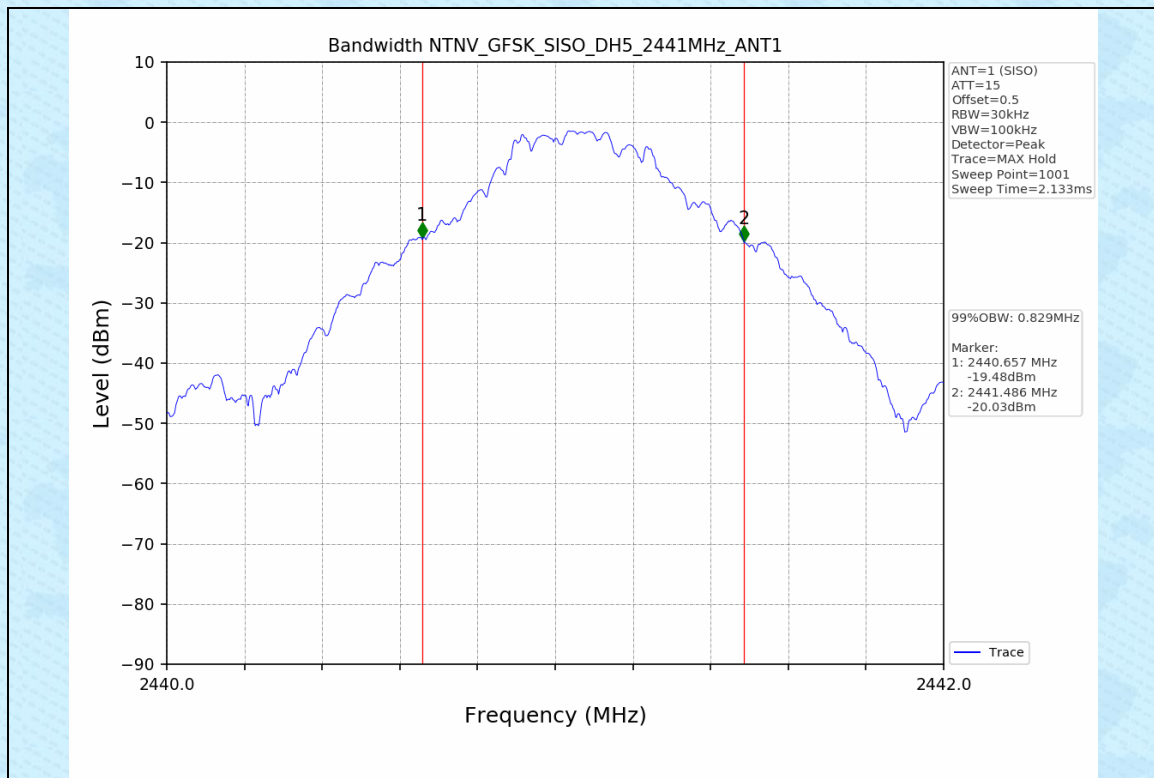


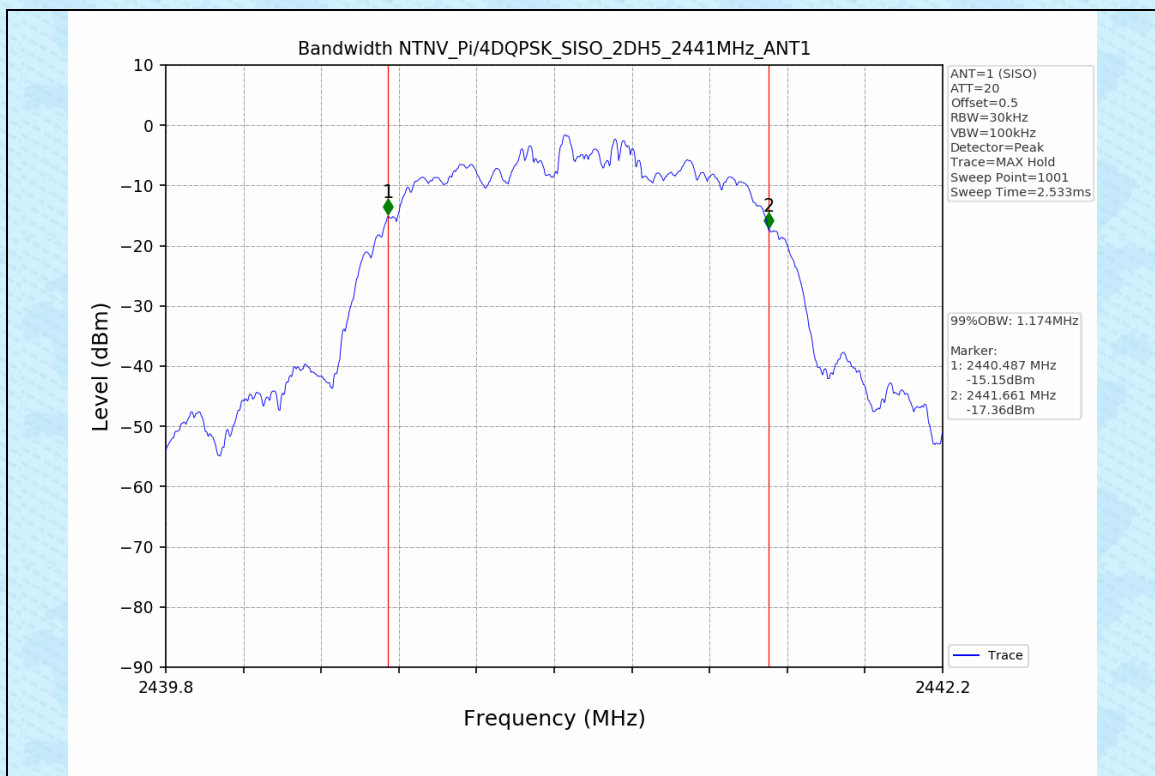
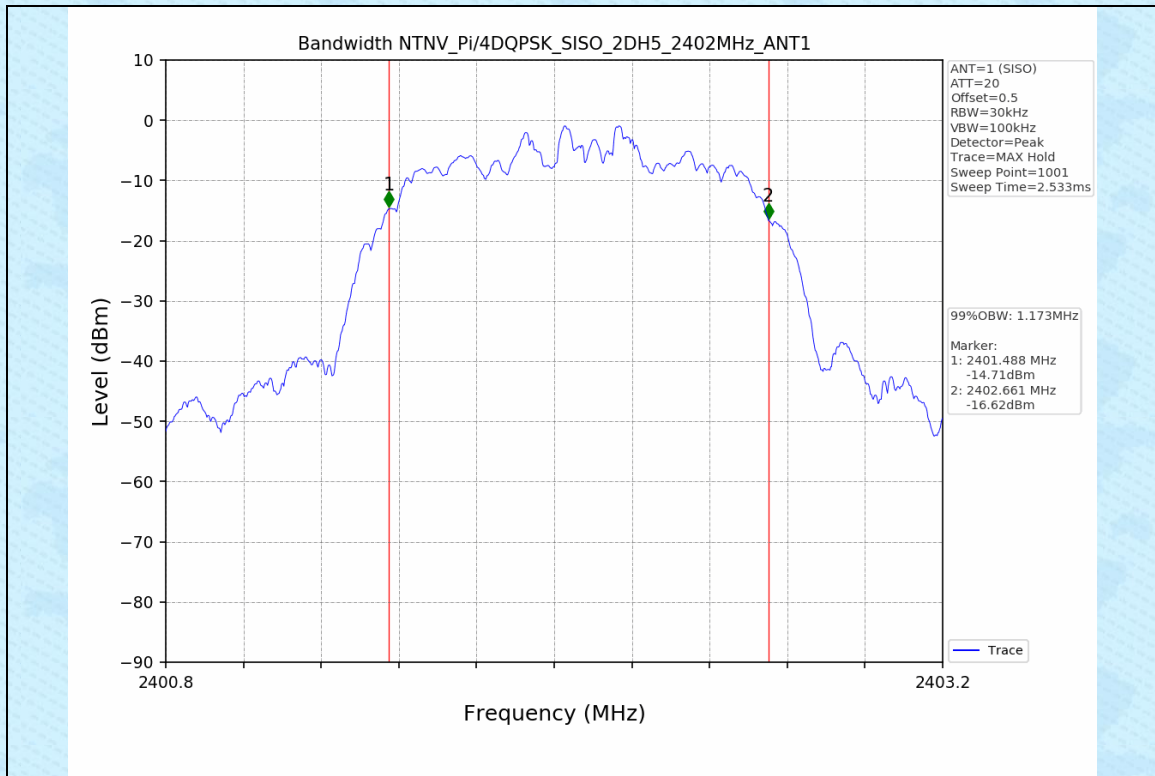


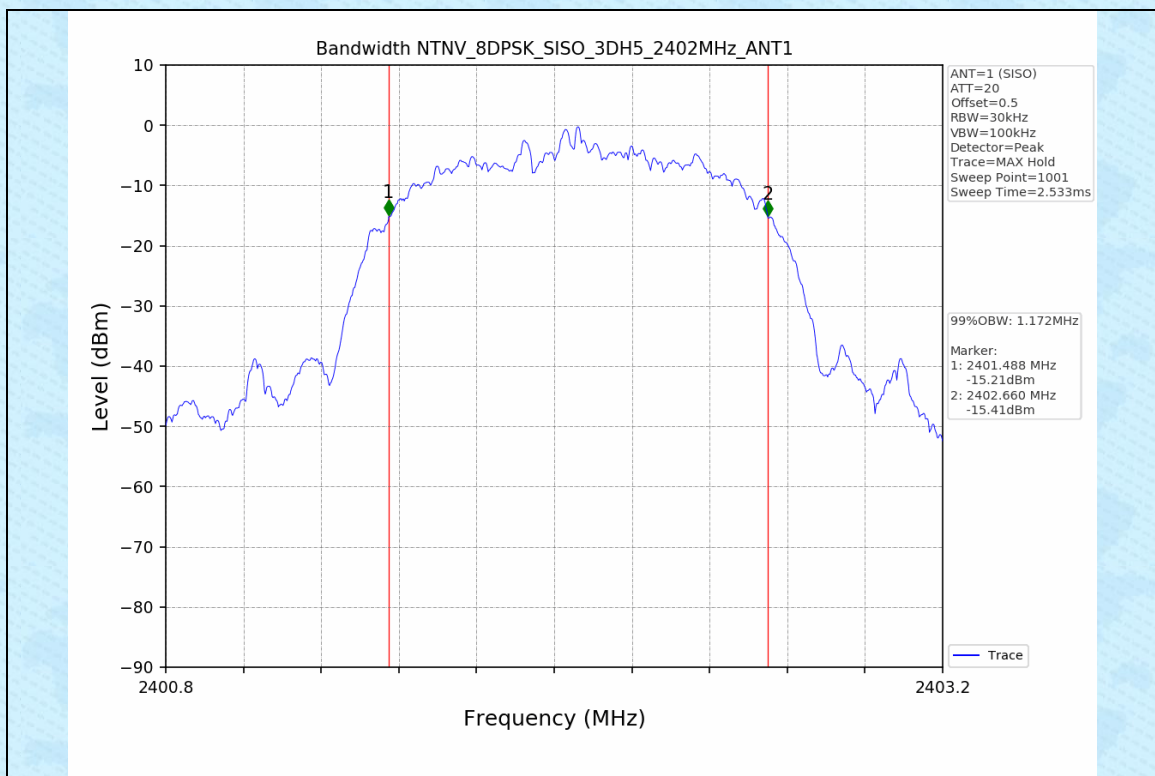
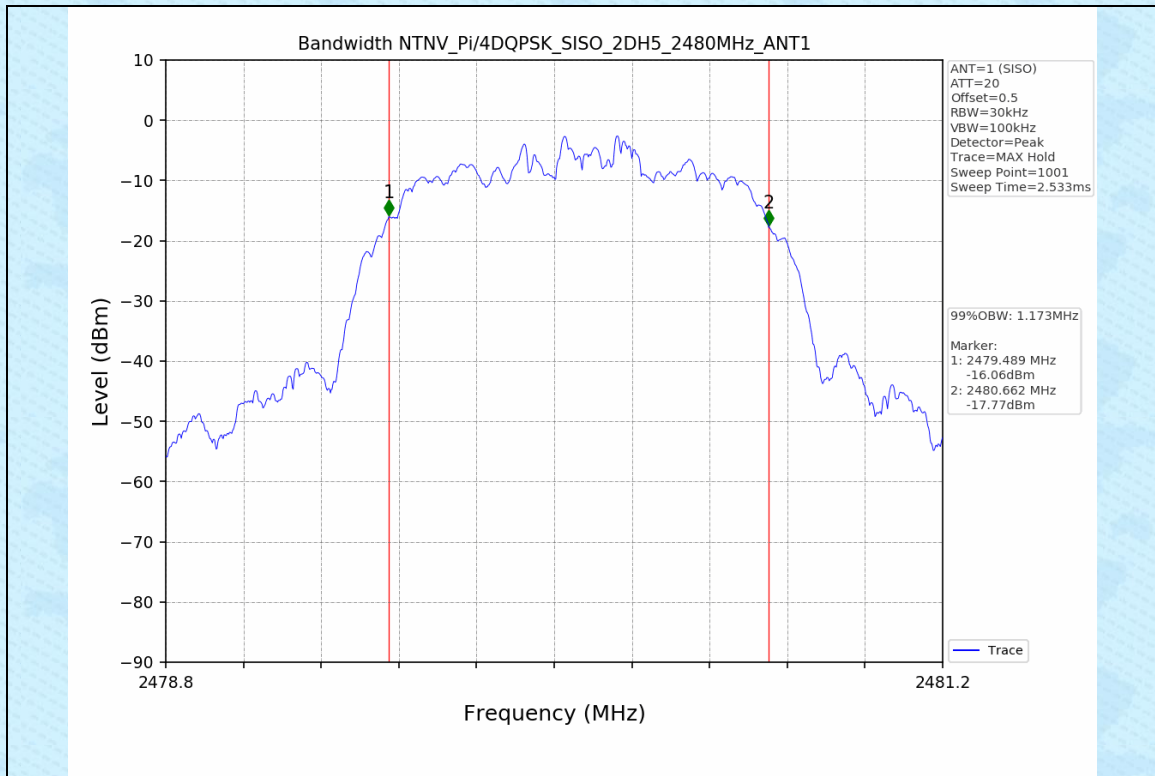


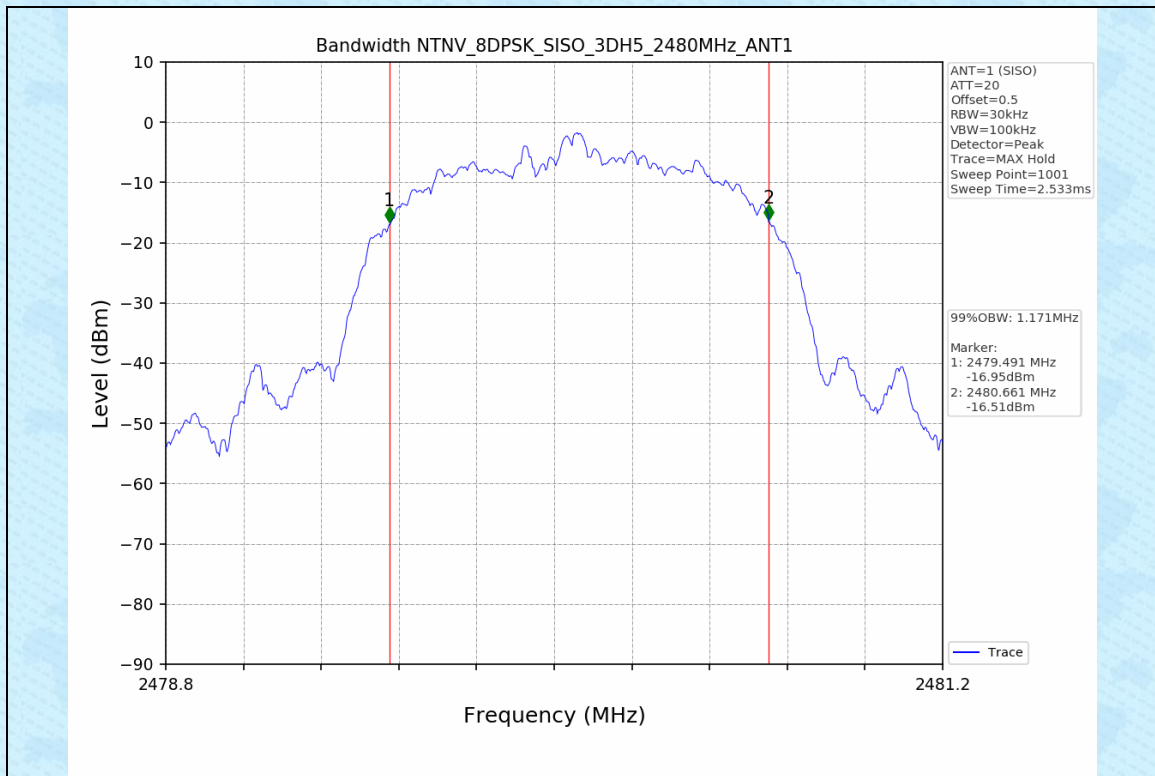
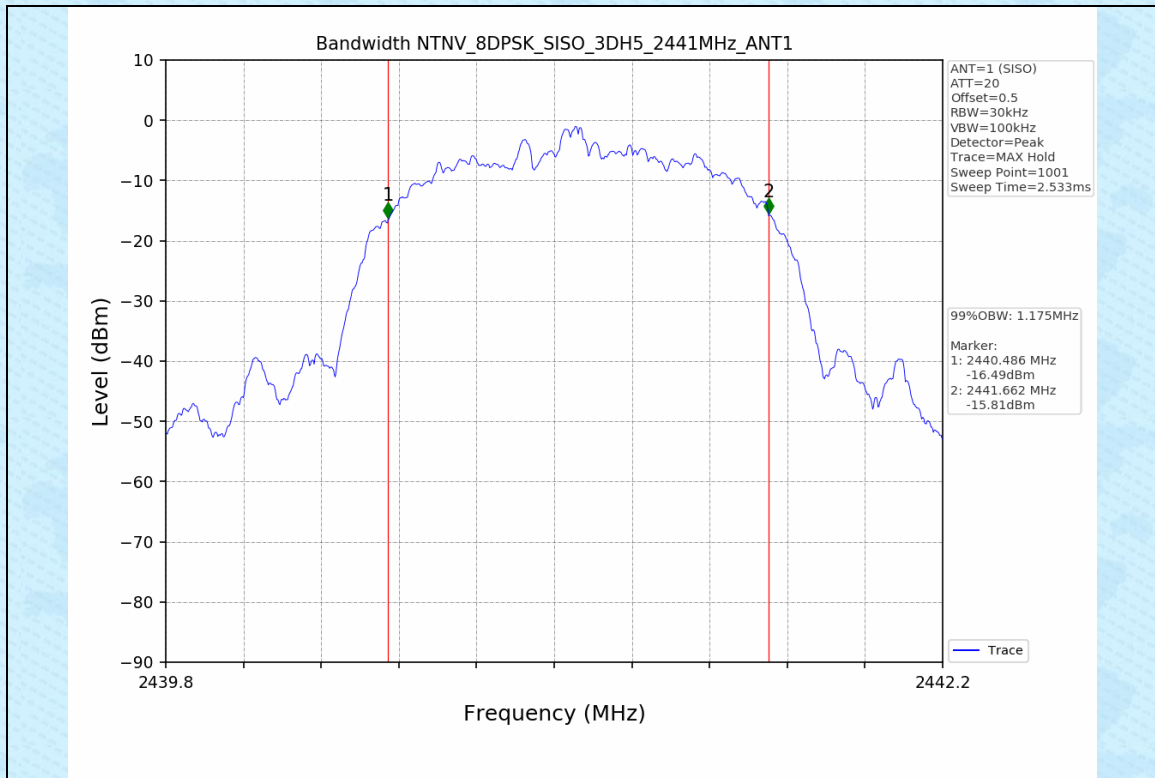
1.3 Test Graph - 99% Occupied Bandwidth









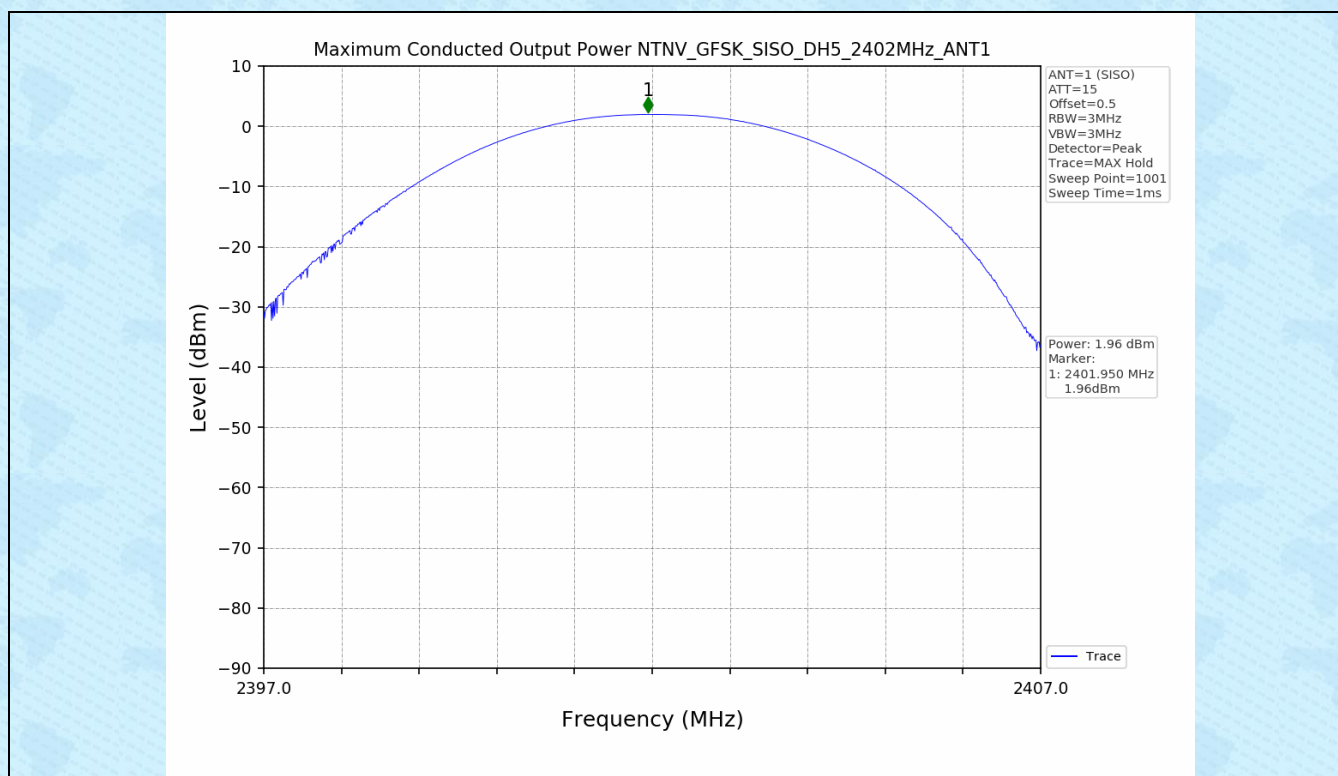


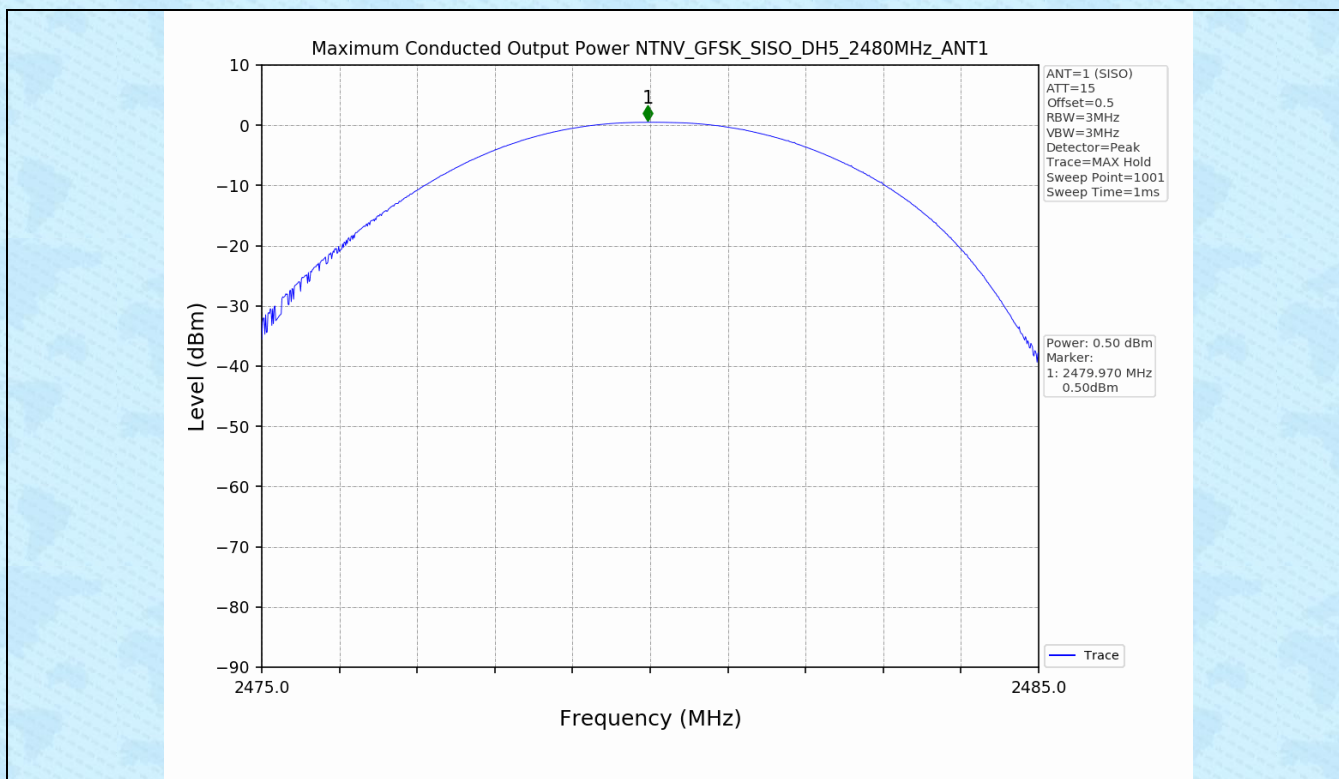
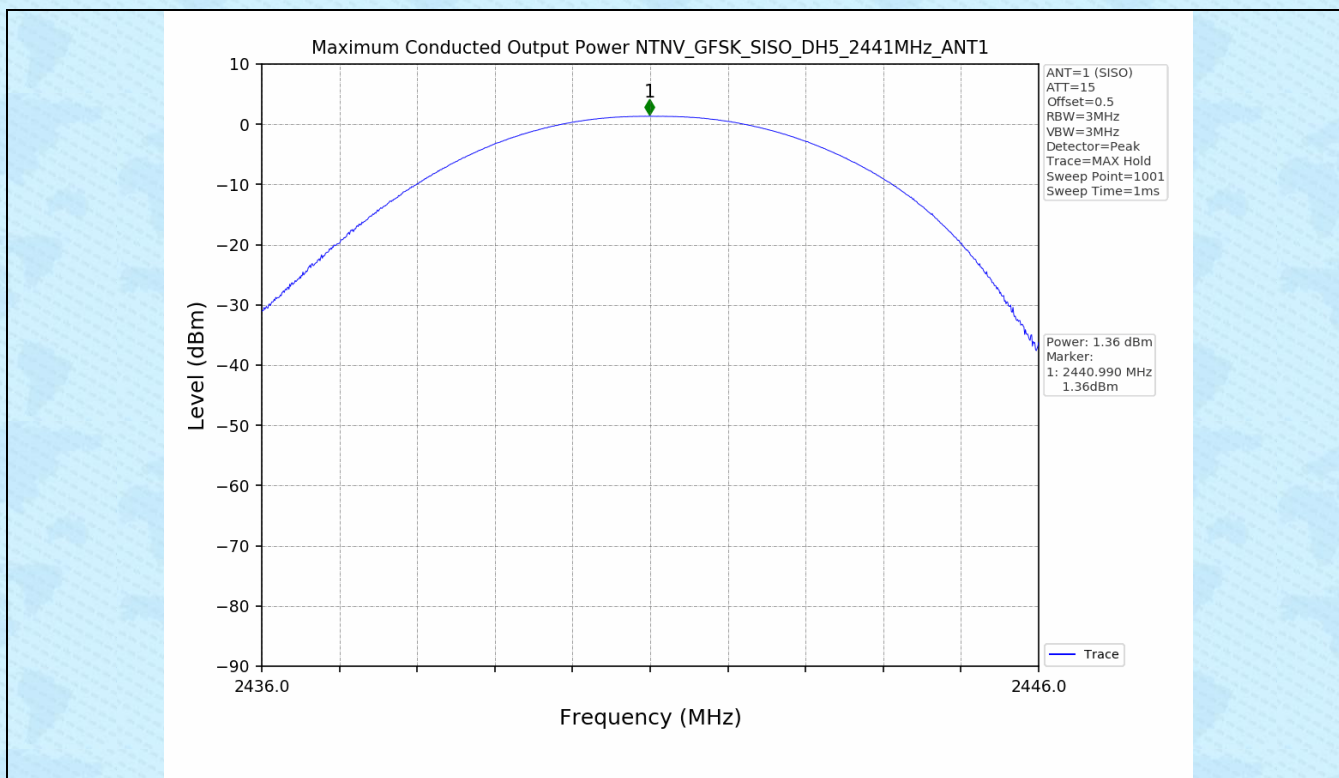
2. Maximum Conducted Output Power

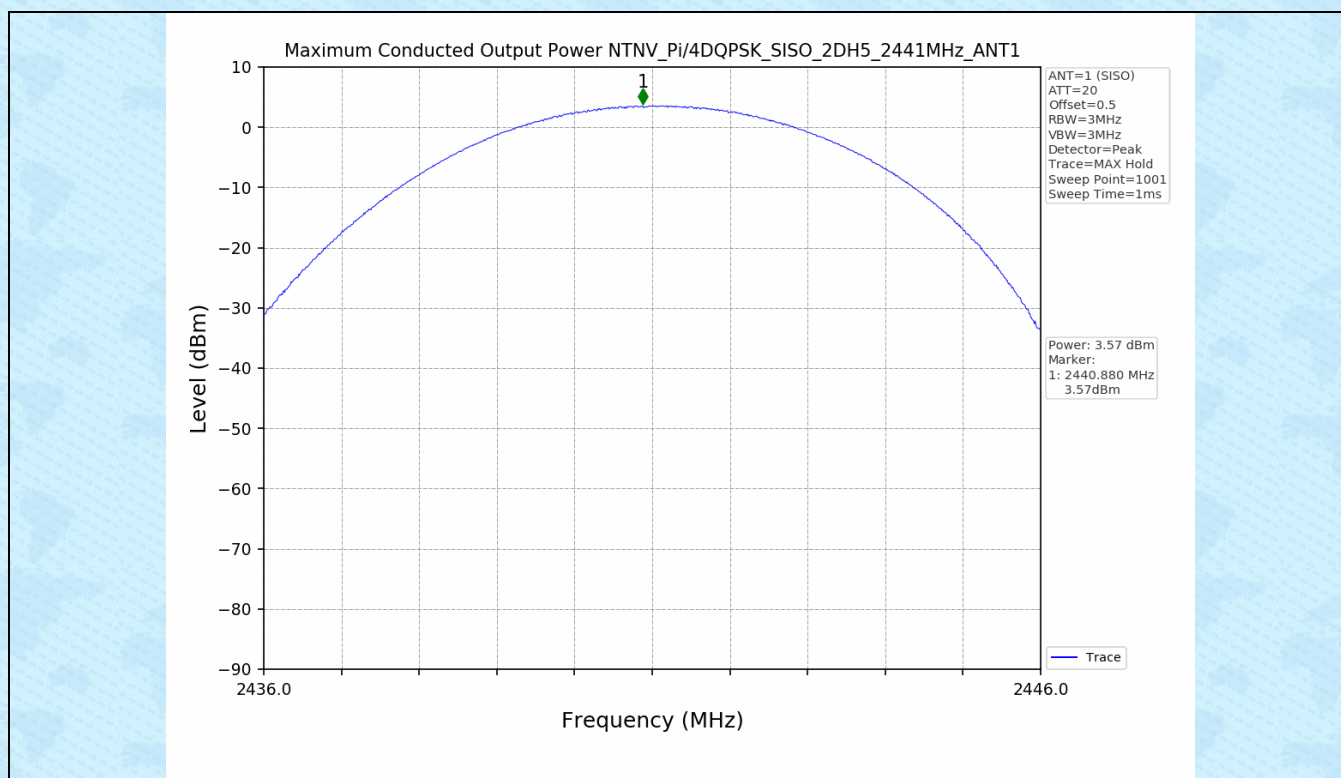
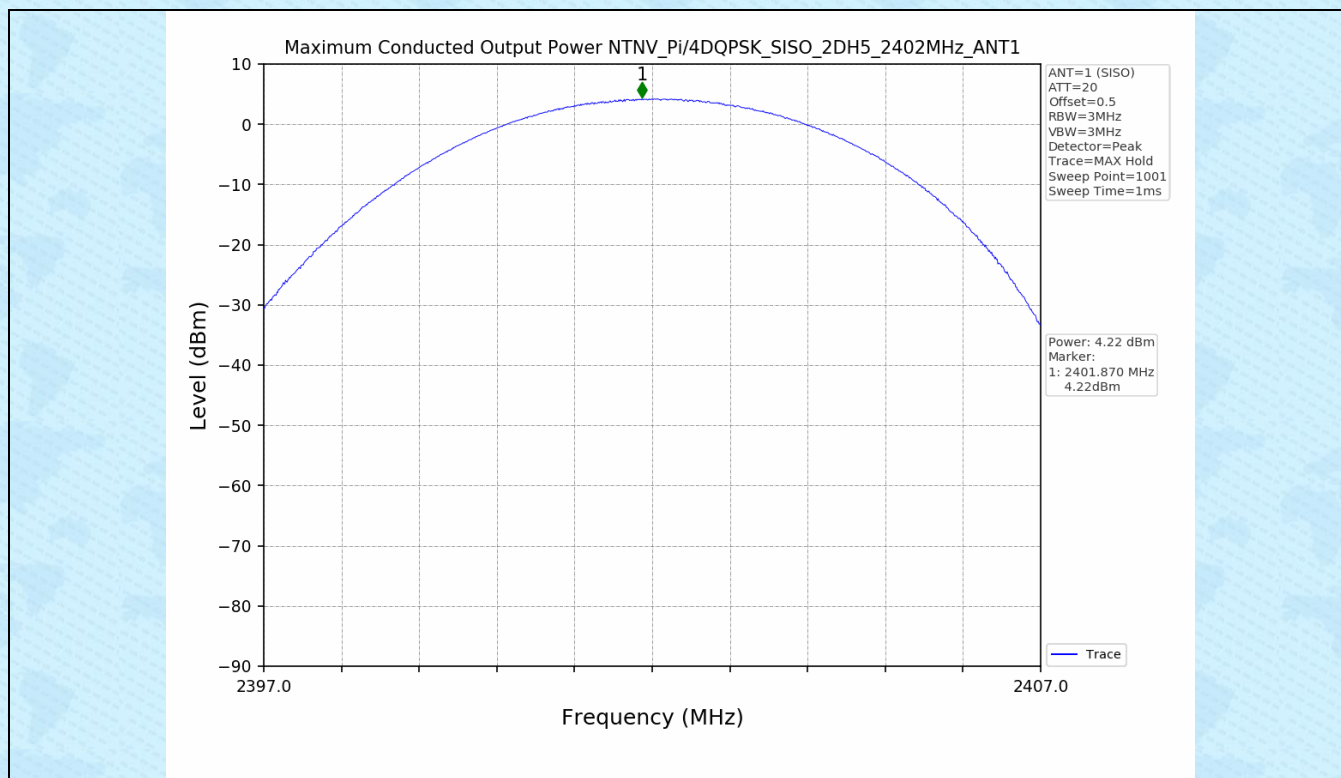
2.1 Test Result

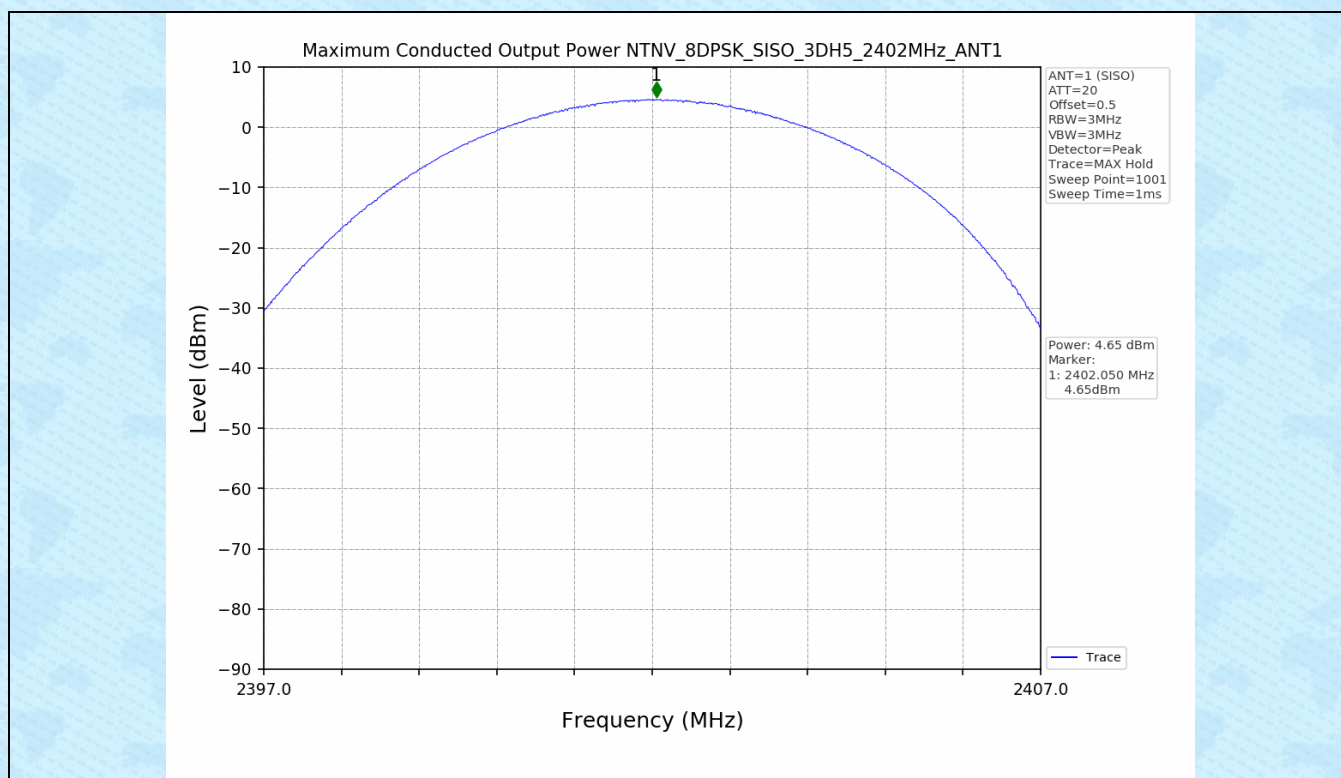
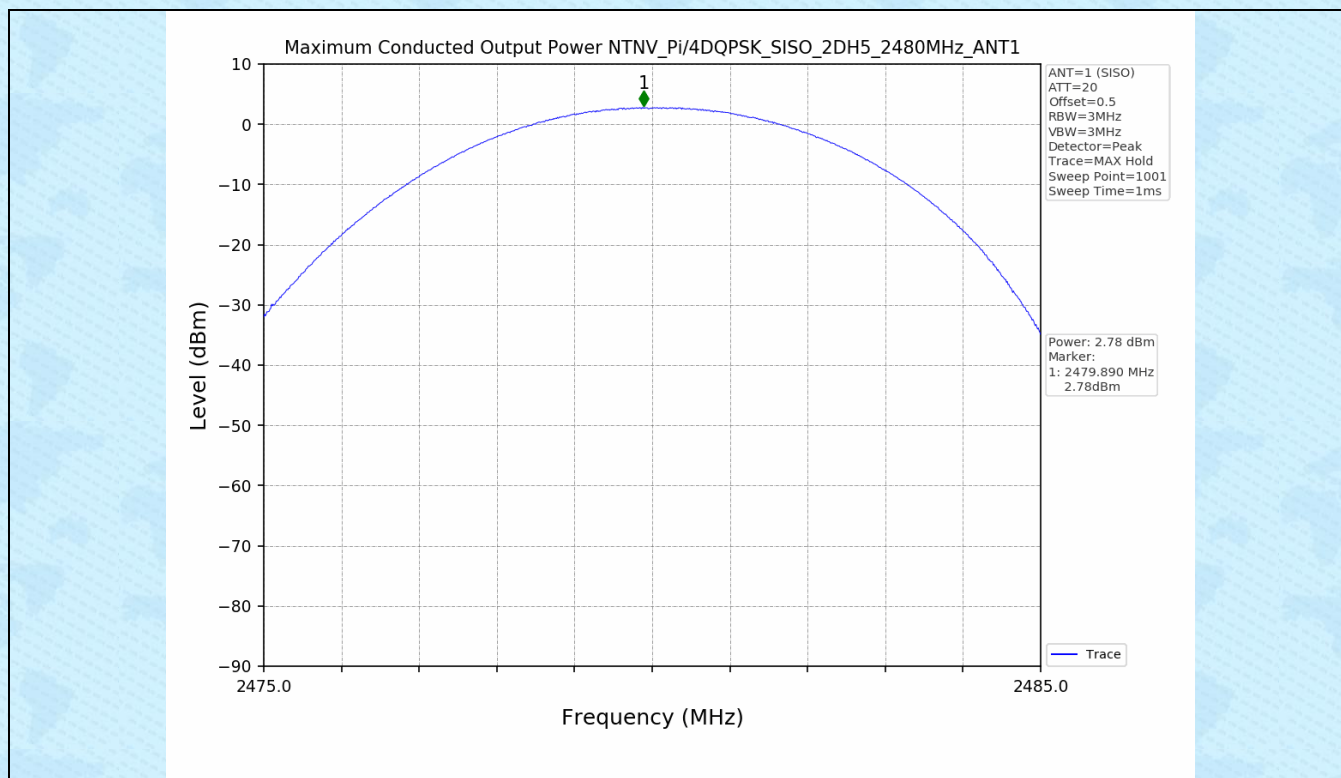
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	1.96	30	PASS
	2441	SISO	1.36	30	PASS
	2480	SISO	0.50	30	PASS
π/4-DQPSK	2402	SISO	4.22	20.97	PASS
	2441	SISO	3.57	20.97	PASS
	2480	SISO	2.78	20.97	PASS
8-DPSK	2402	SISO	4.65	20.97	PASS
	2441	SISO	4.02	20.97	PASS
	2480	SISO	3.23	20.97	PASS

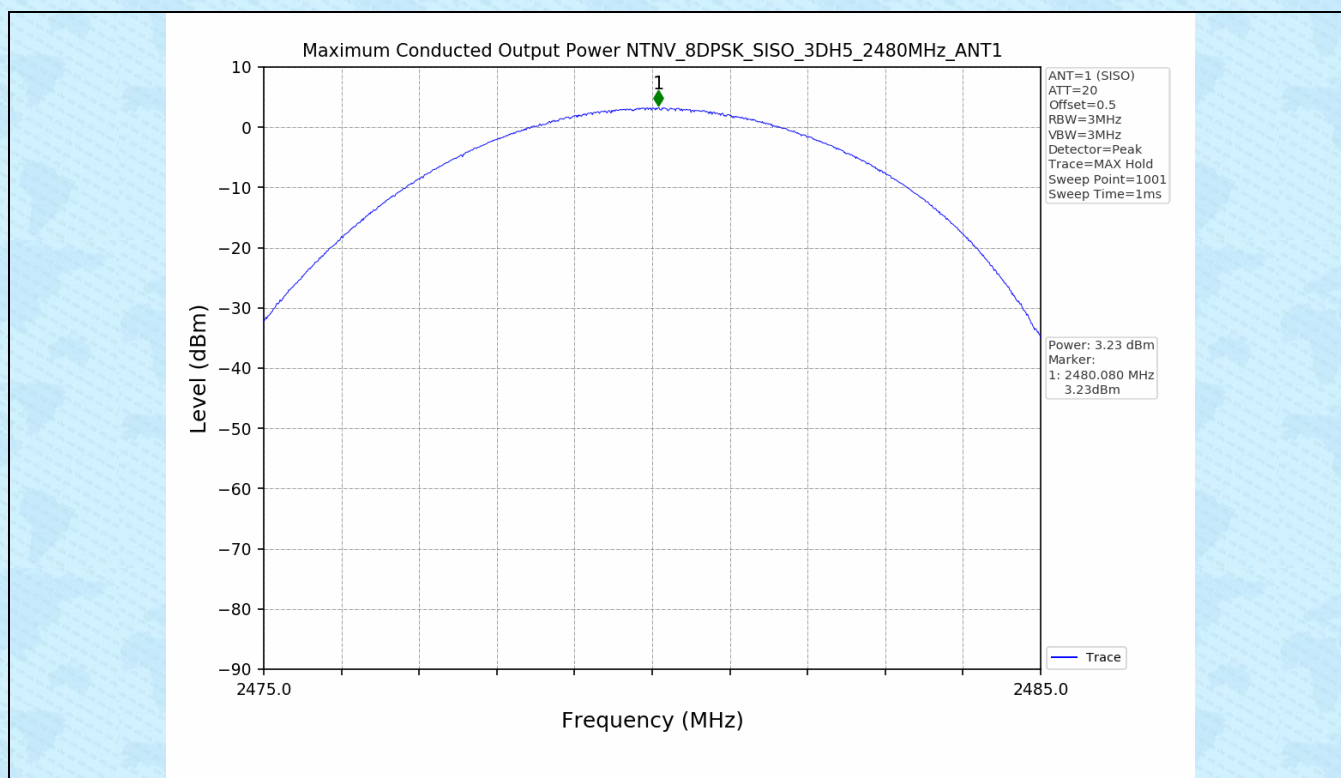
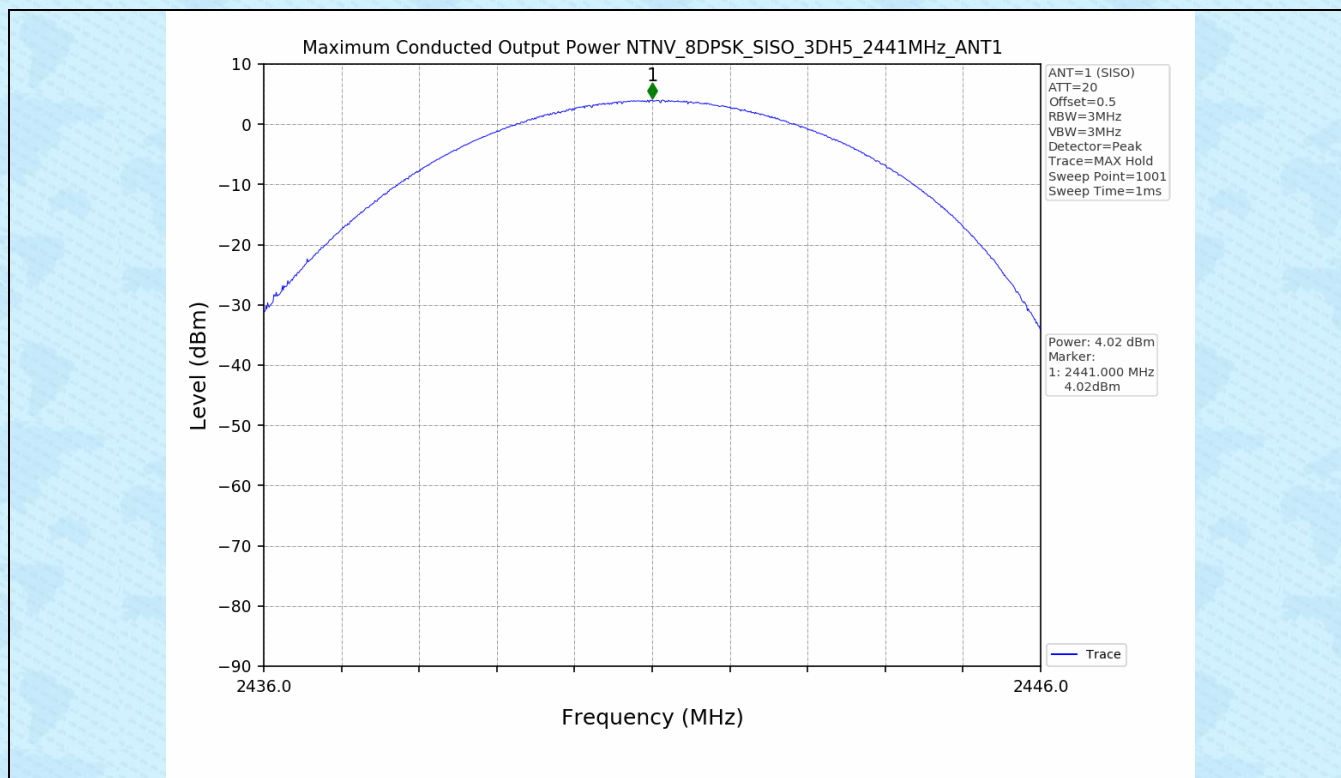
2.2 Test Graph









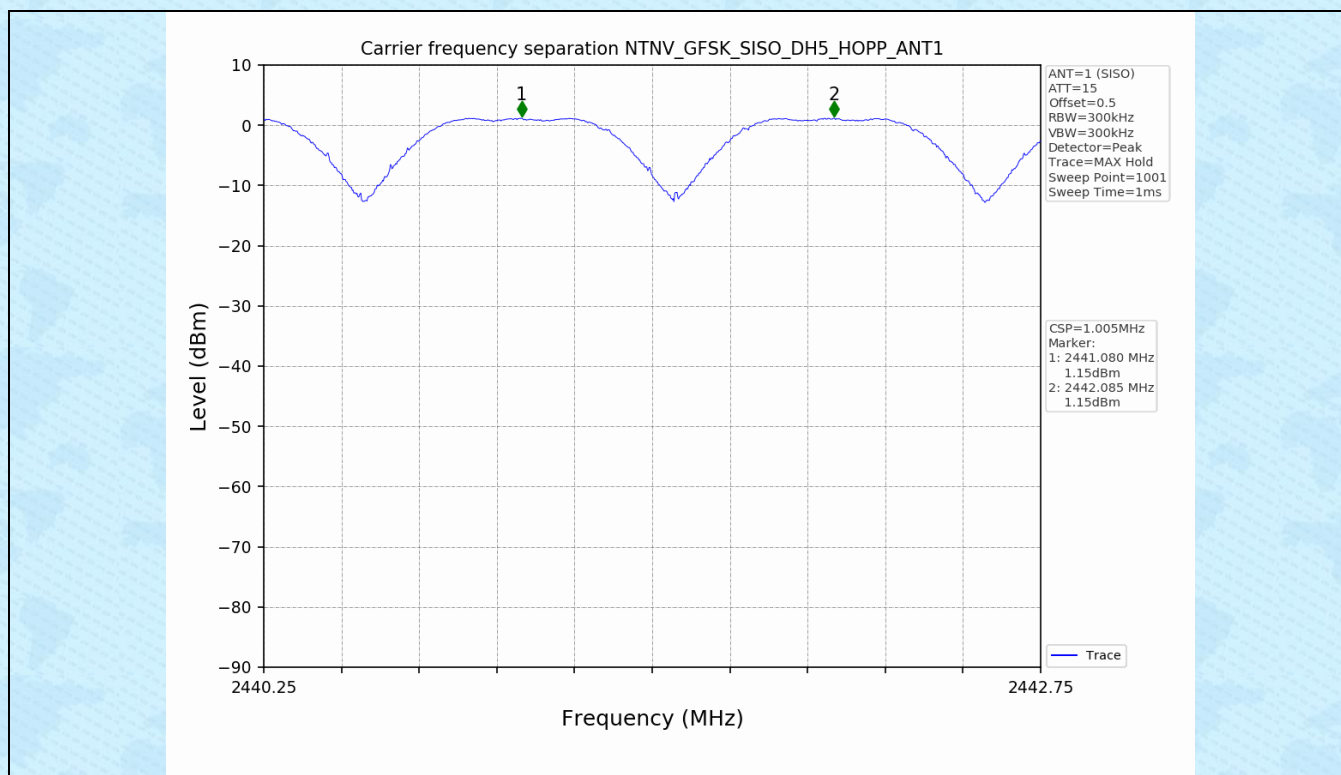


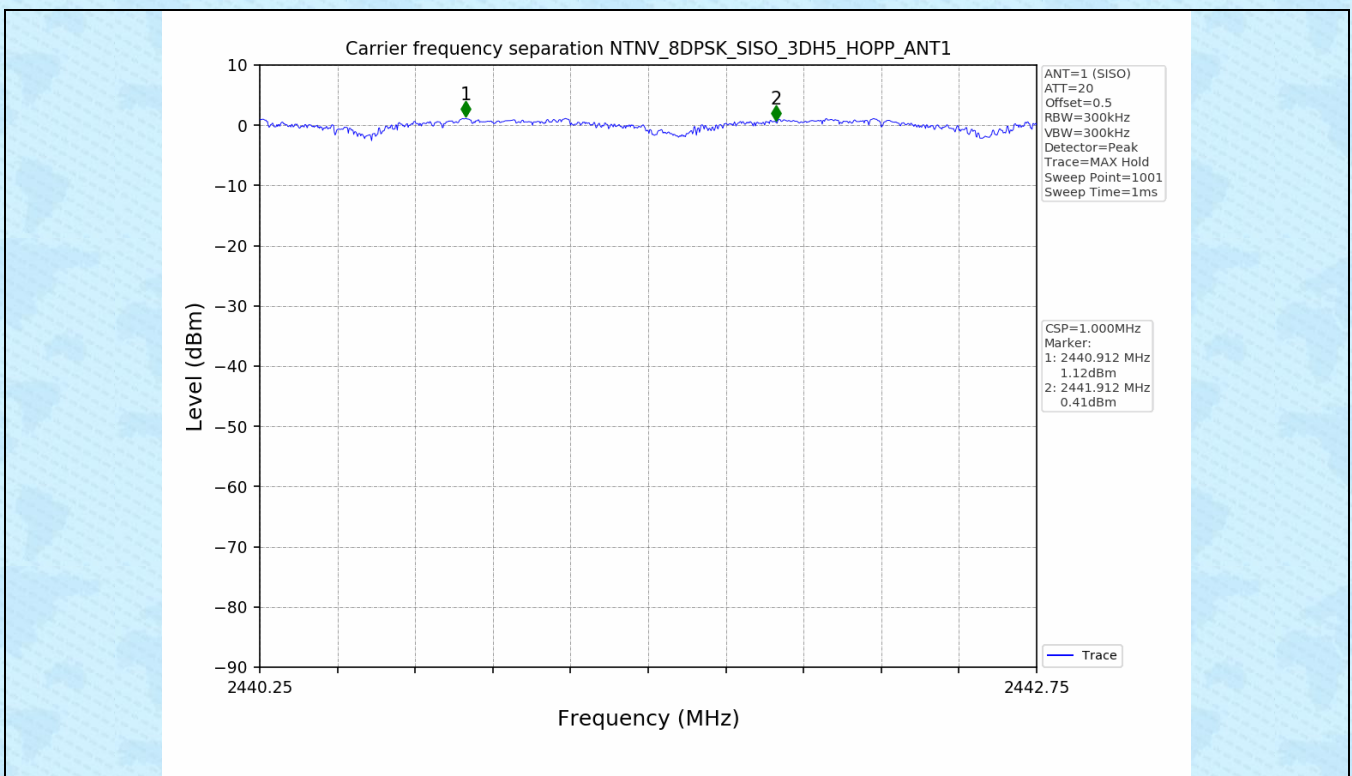
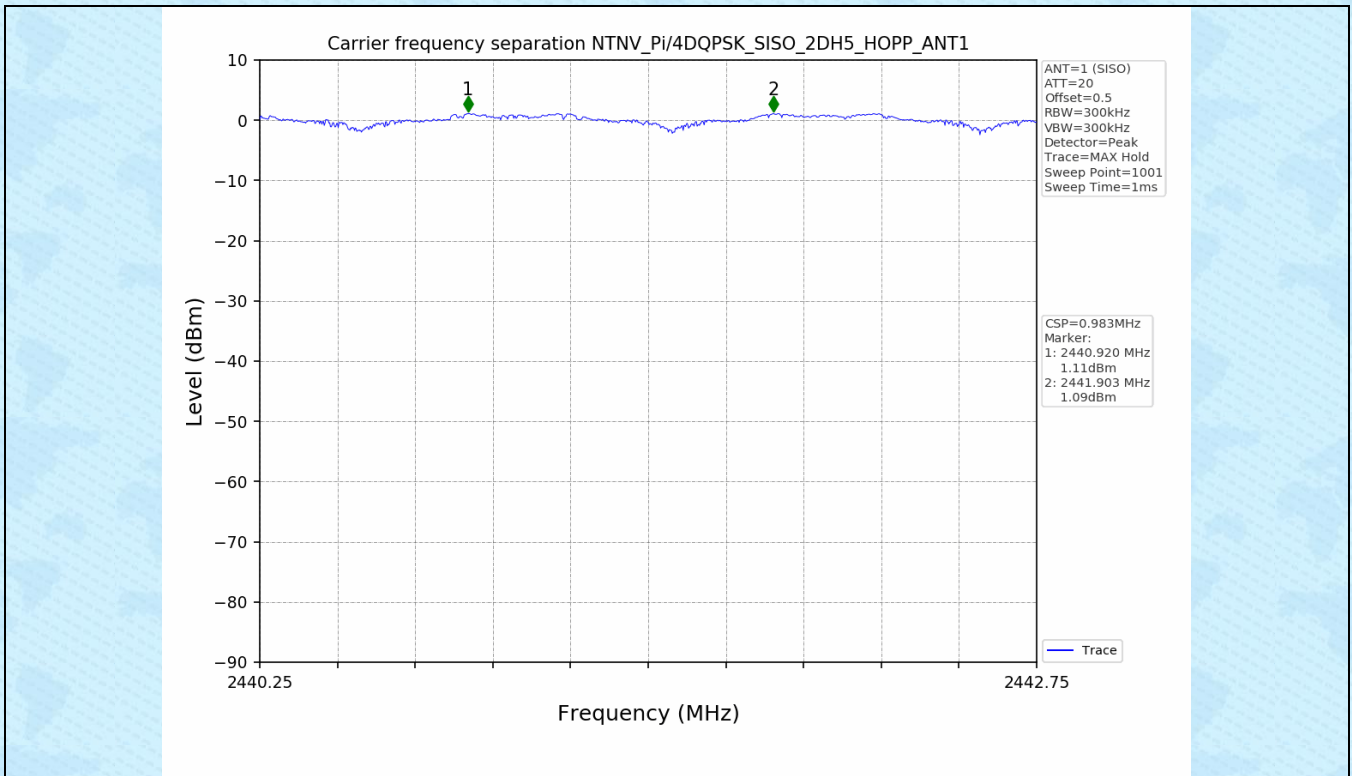
3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	ANT1	1.005	1.000	≥1.000	PASS
$\pi/4$ -DQPSK	SISO	ANT1	0.983	1.200	≥0.800	PASS
8-DPSK	SISO	ANT1	1.000	1.200	≥0.800	PASS

3.2 Test Graph



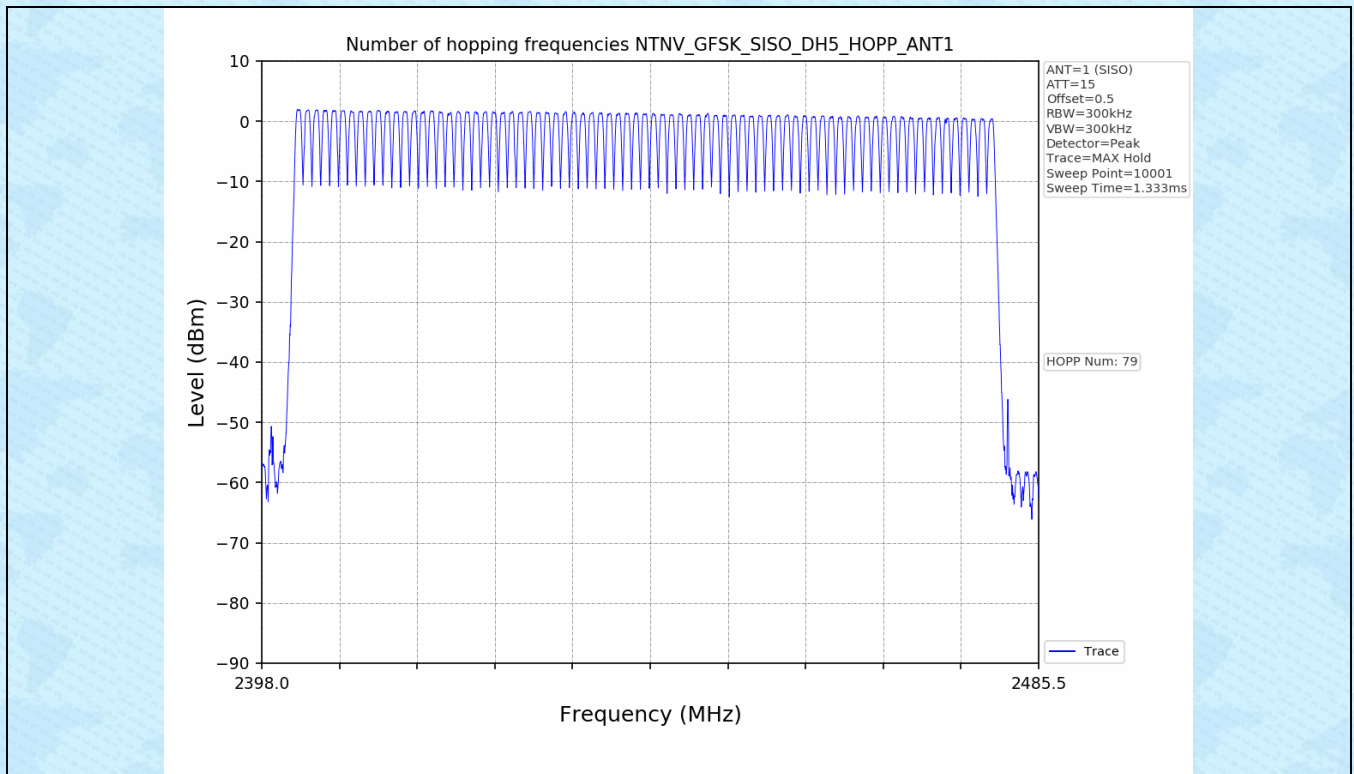


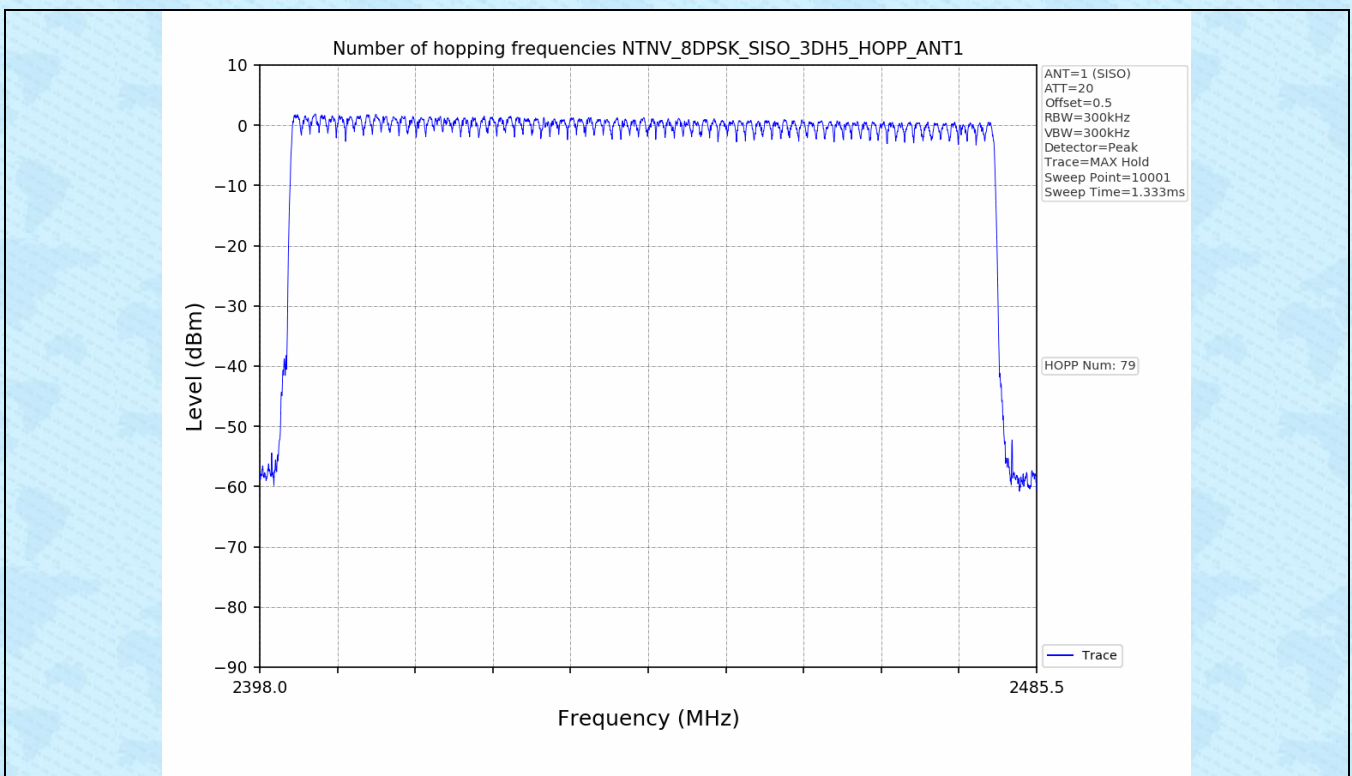
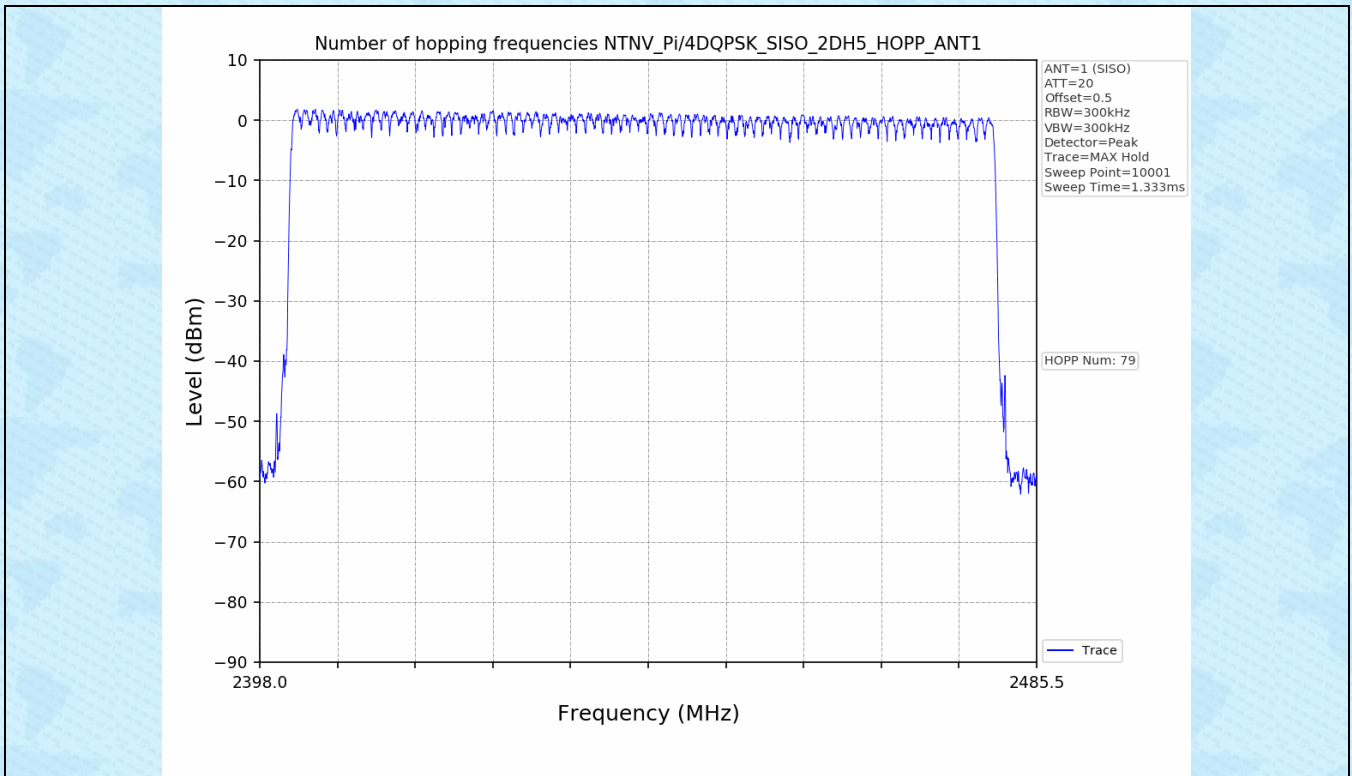
4. Number of hopping frequencies

4.1 Test Result

Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
GFSK	SISO	ANT1	79	≥15	PASS
$\pi/4$ -DQPSK	SISO	ANT1	79	≥15	PASS
8-DPSK	SISO	ANT1	79	≥15	PASS

4.2 Test Graph



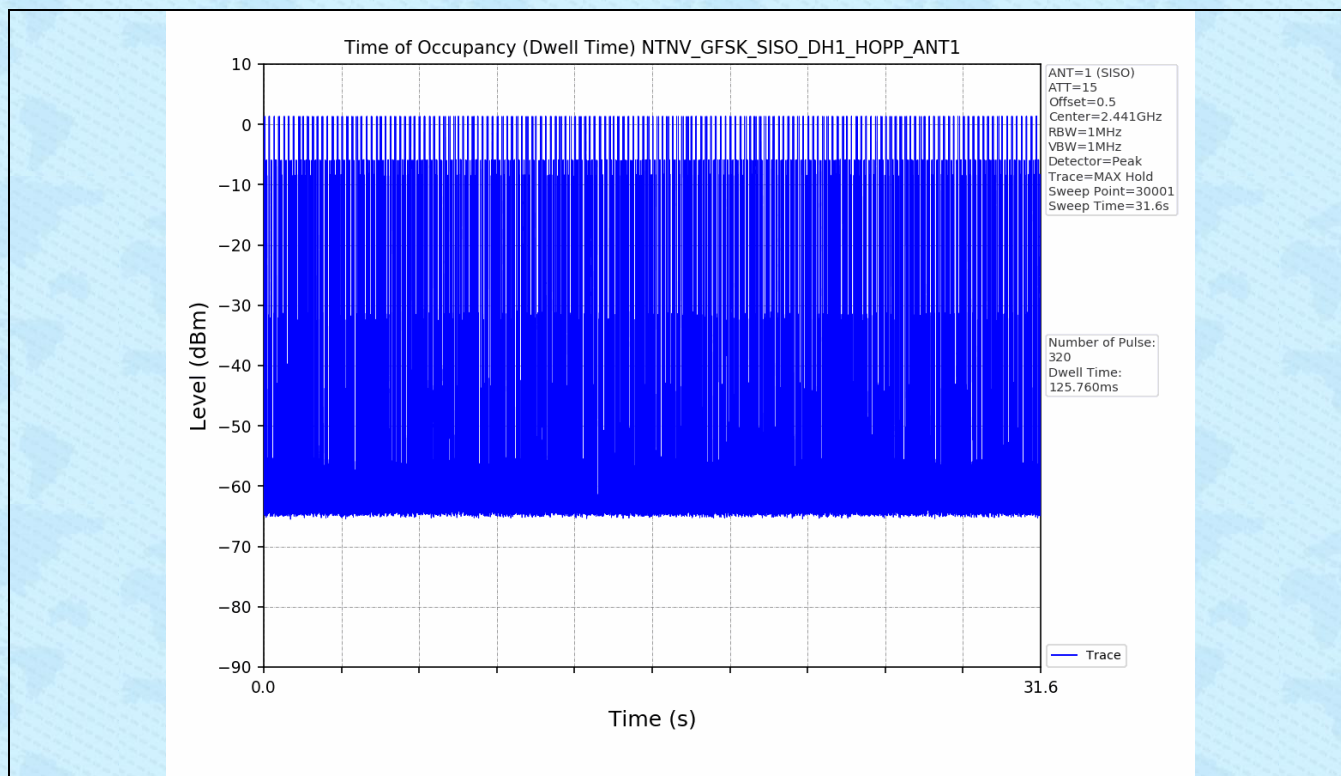
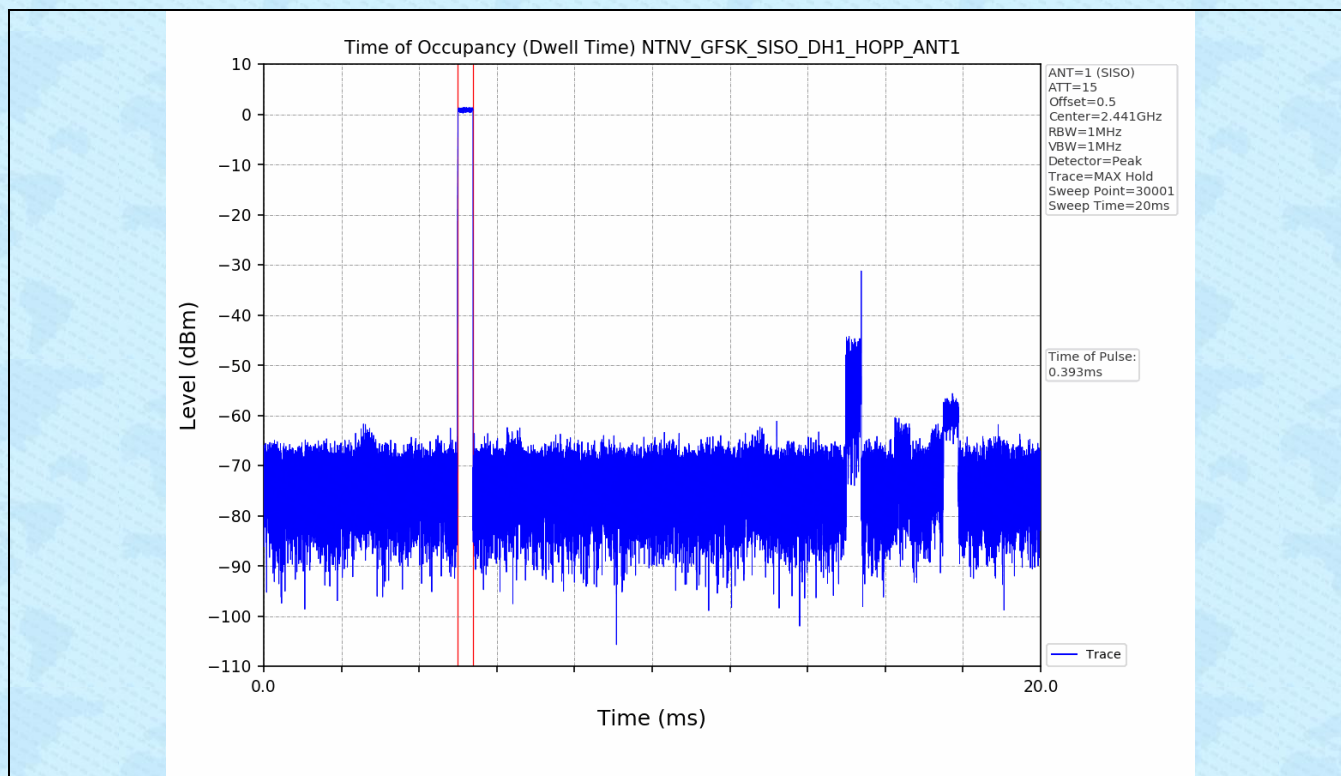


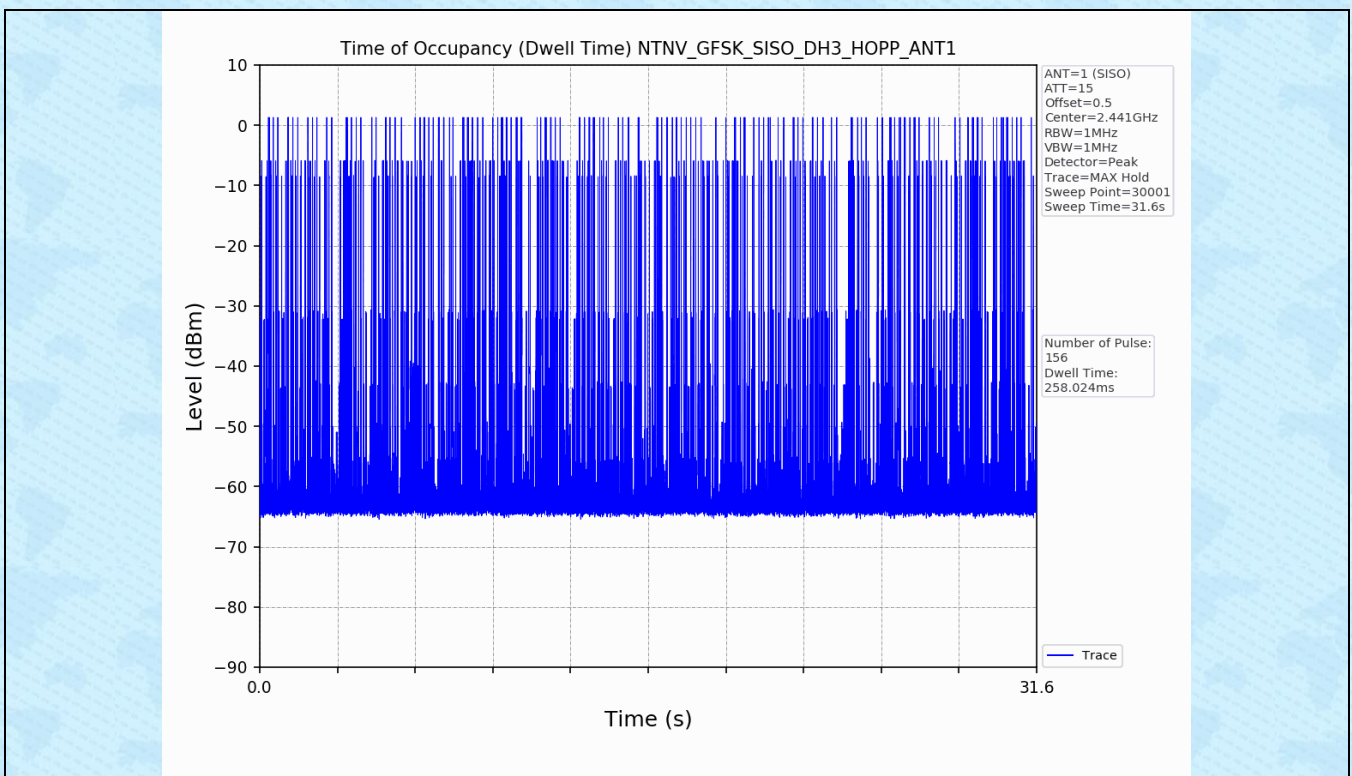
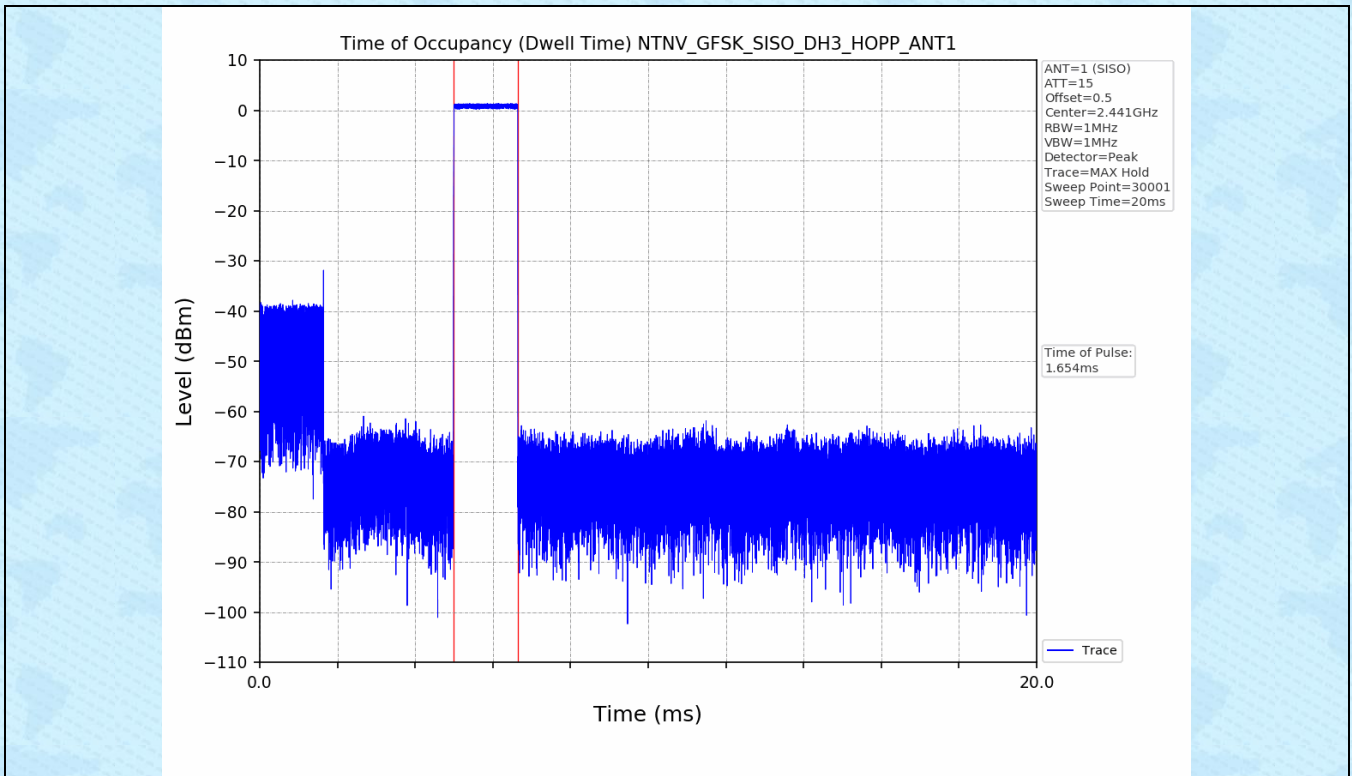
5. Time of Occupancy (Dwell Time)

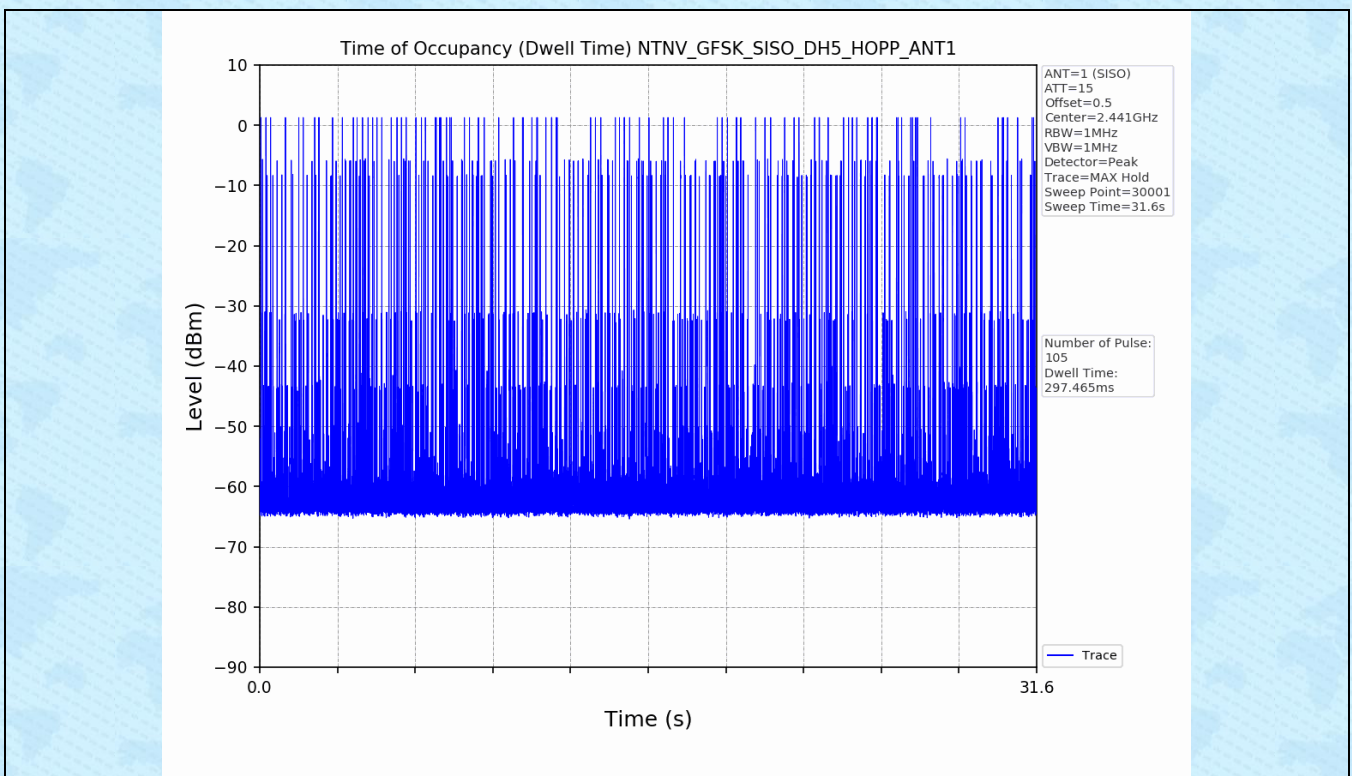
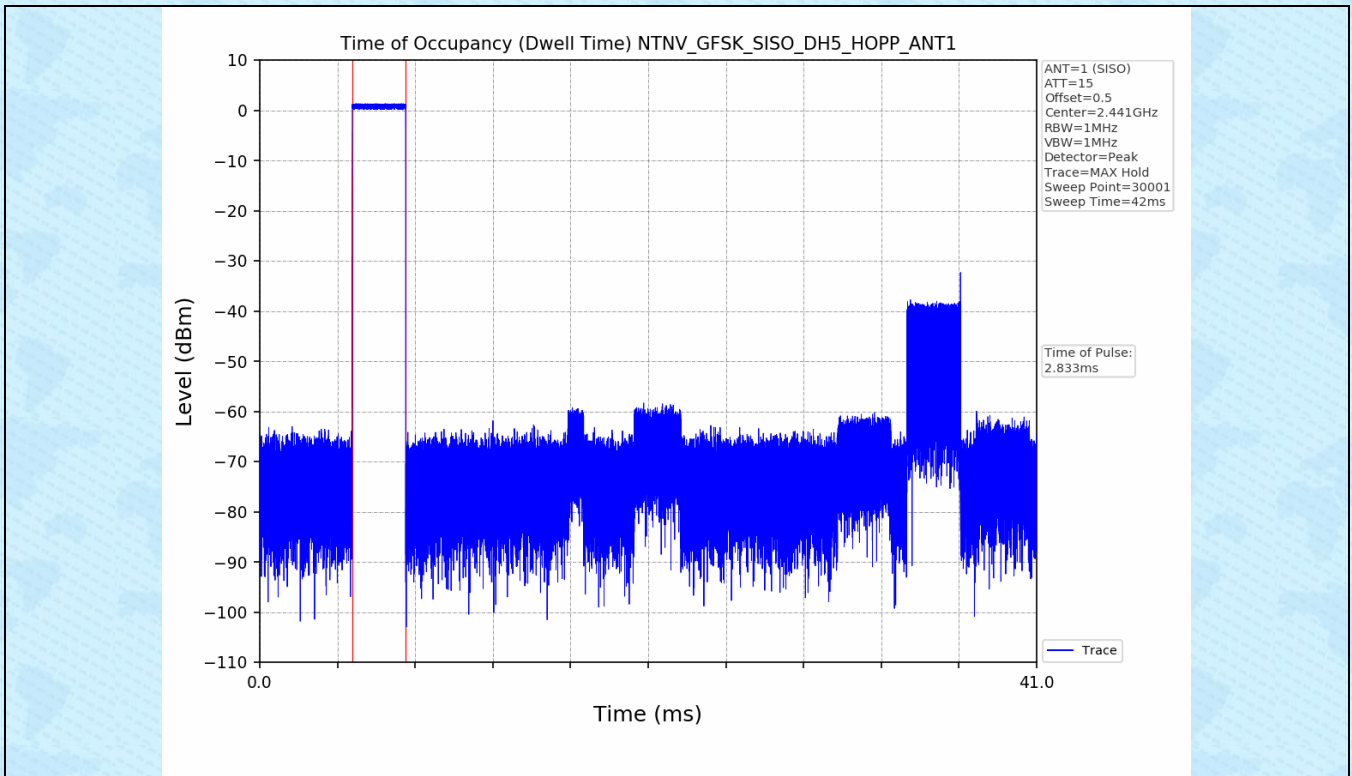
5.1 Test Result

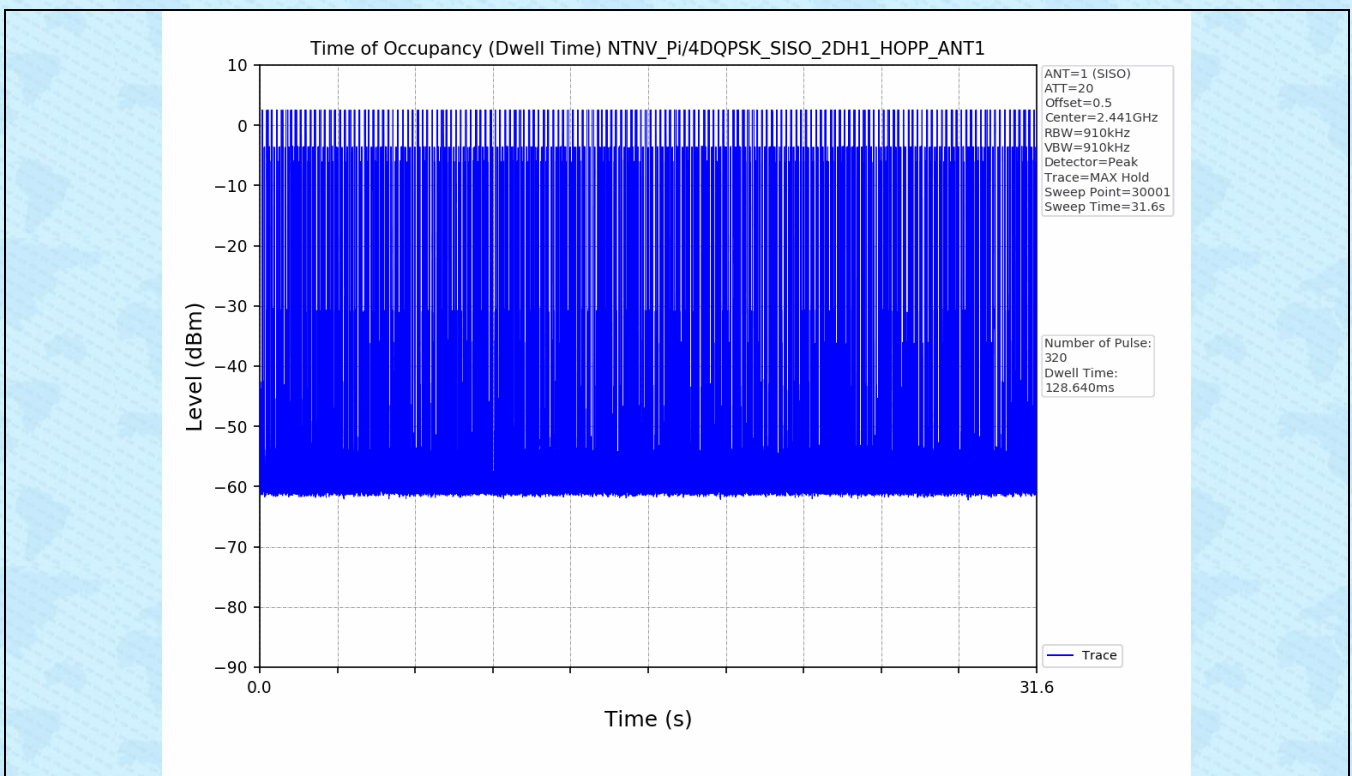
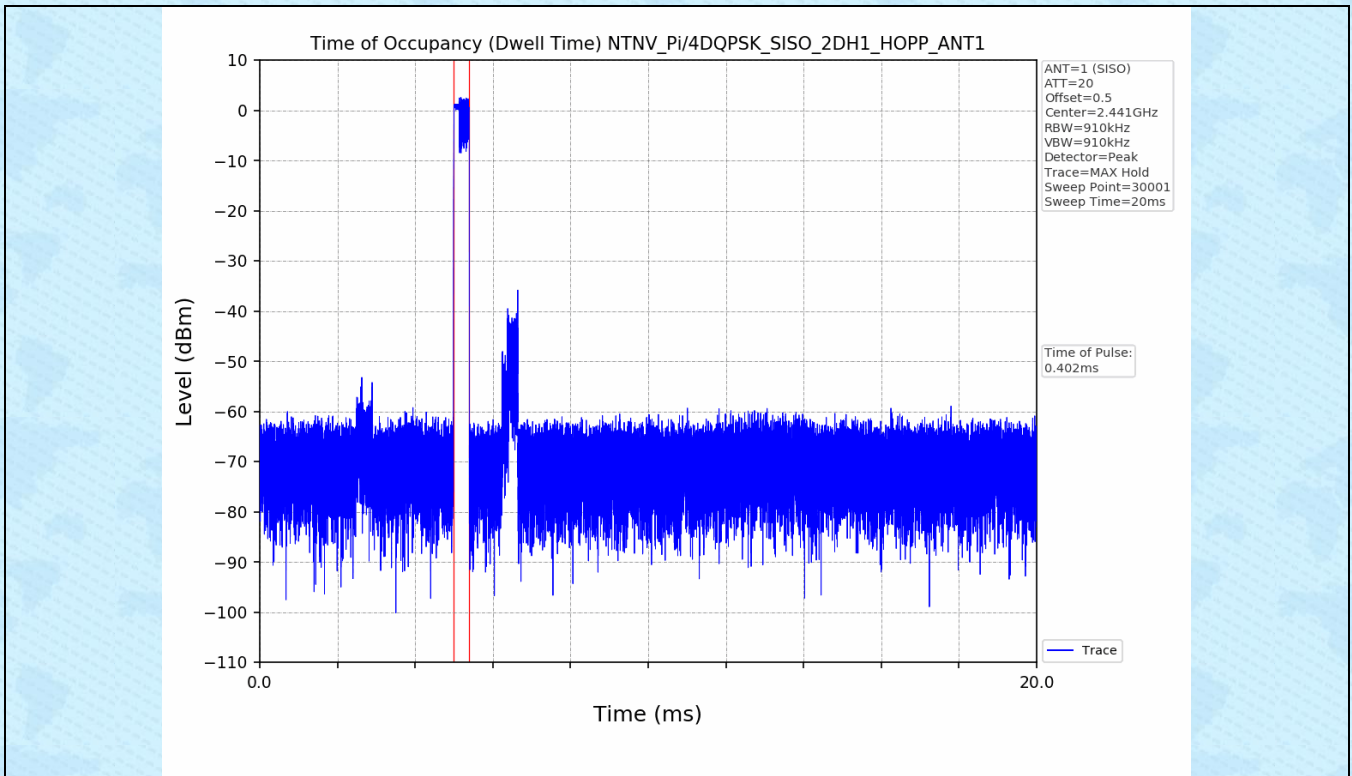
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	ANT1	0.393	31.6	320	125.760	≤400	PASS
	DH3	SISO	ANT1	1.654	31.6	156	258.024	≤400	PASS
	DH5	SISO	ANT1	2.833	31.6	105	297.465	≤400	PASS
π/4-DQPSK	2DH1	SISO	ANT1	0.402	31.6	320	128.640	≤400	PASS
	2DH3	SISO	ANT1	1.660	31.6	164	272.240	≤400	PASS
	2DH5	SISO	ANT1	2.900	31.6	104	301.600	≤400	PASS
8-DPSK	3DH1	SISO	ANT1	0.408	31.6	320	130.560	≤400	PASS
	3DH3	SISO	ANT1	1.660	31.6	157	260.620	≤400	PASS
	3DH5	SISO	ANT1	2.911	31.6	113	328.943	≤400	PASS

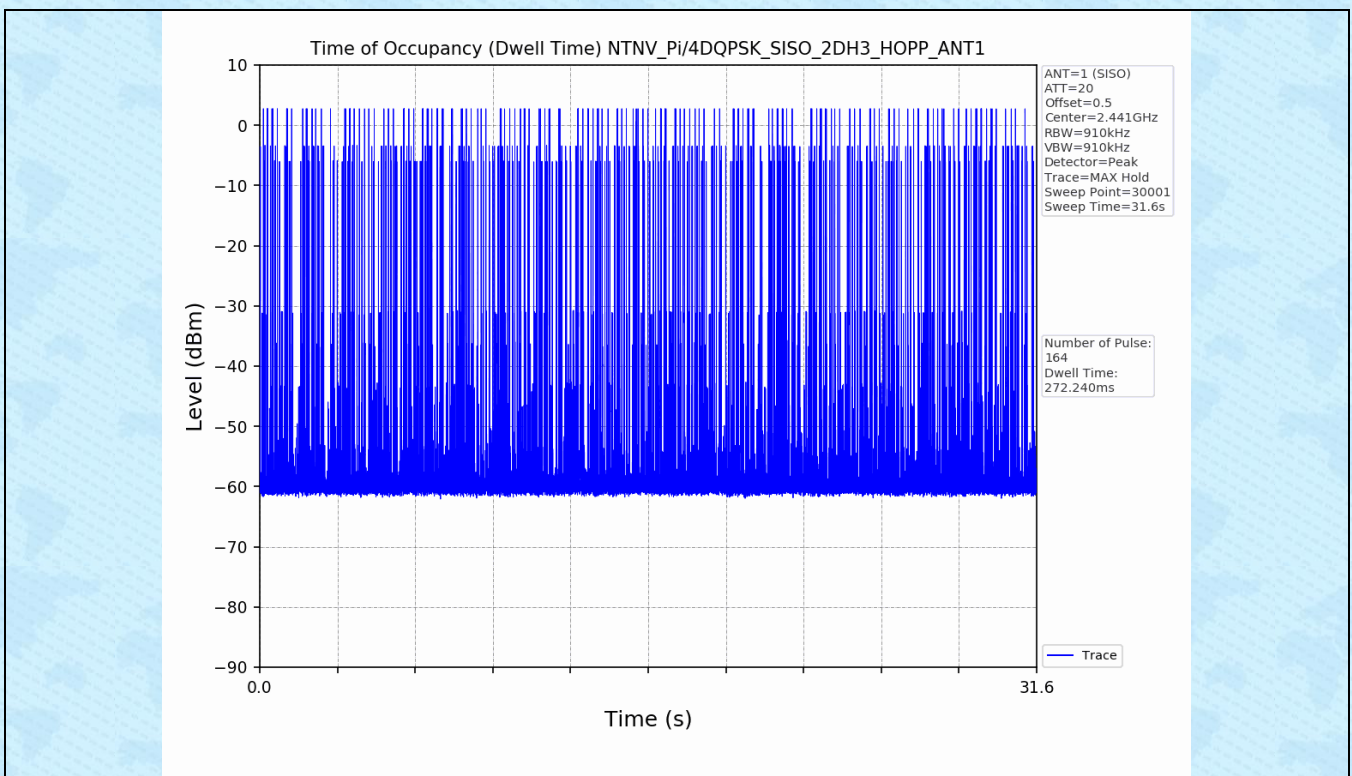
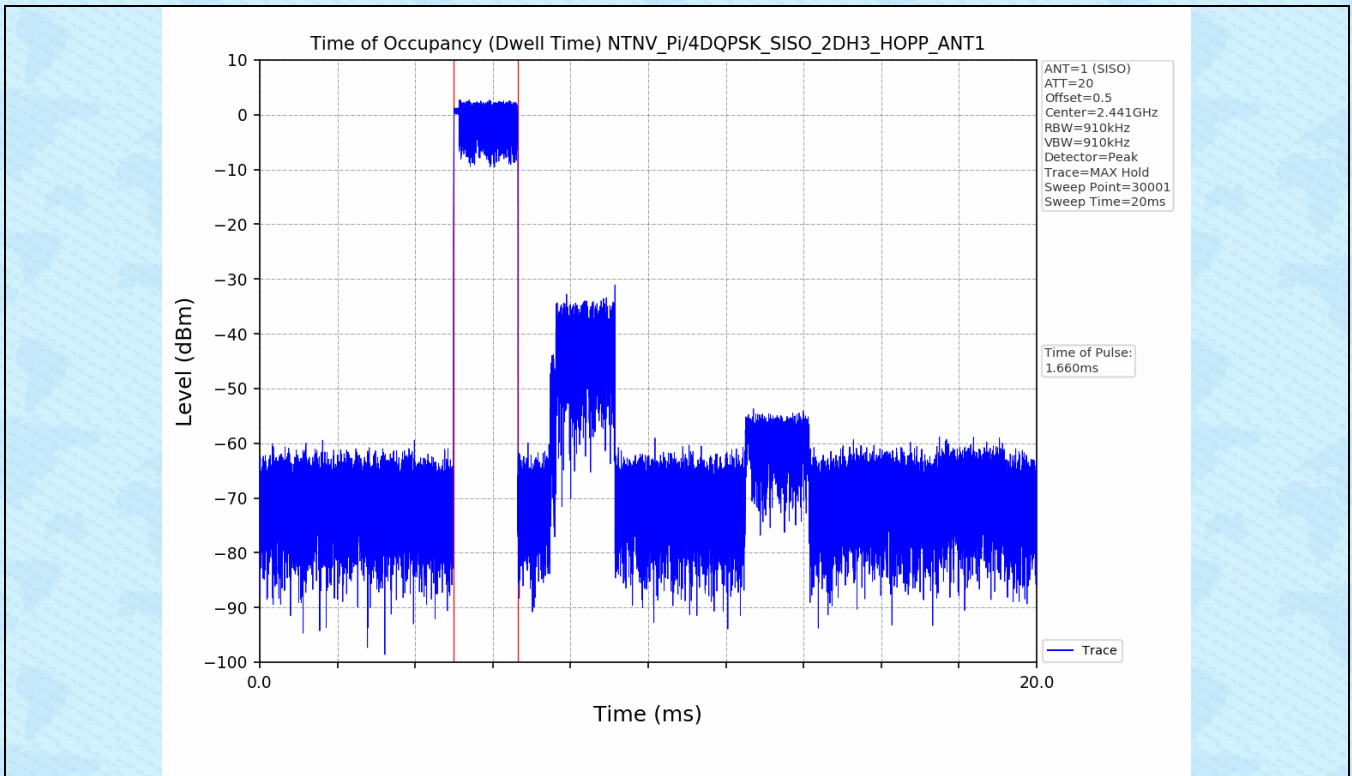
5.2 Test Graph

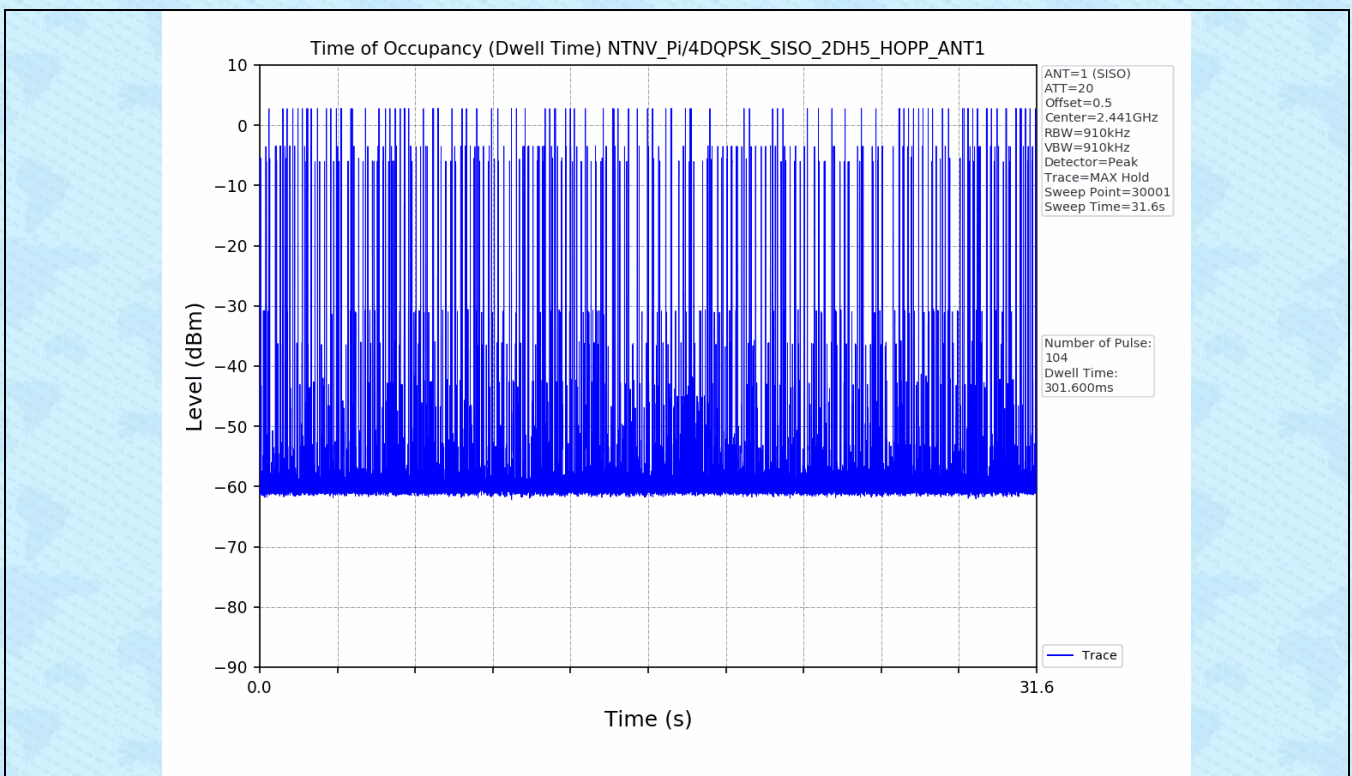
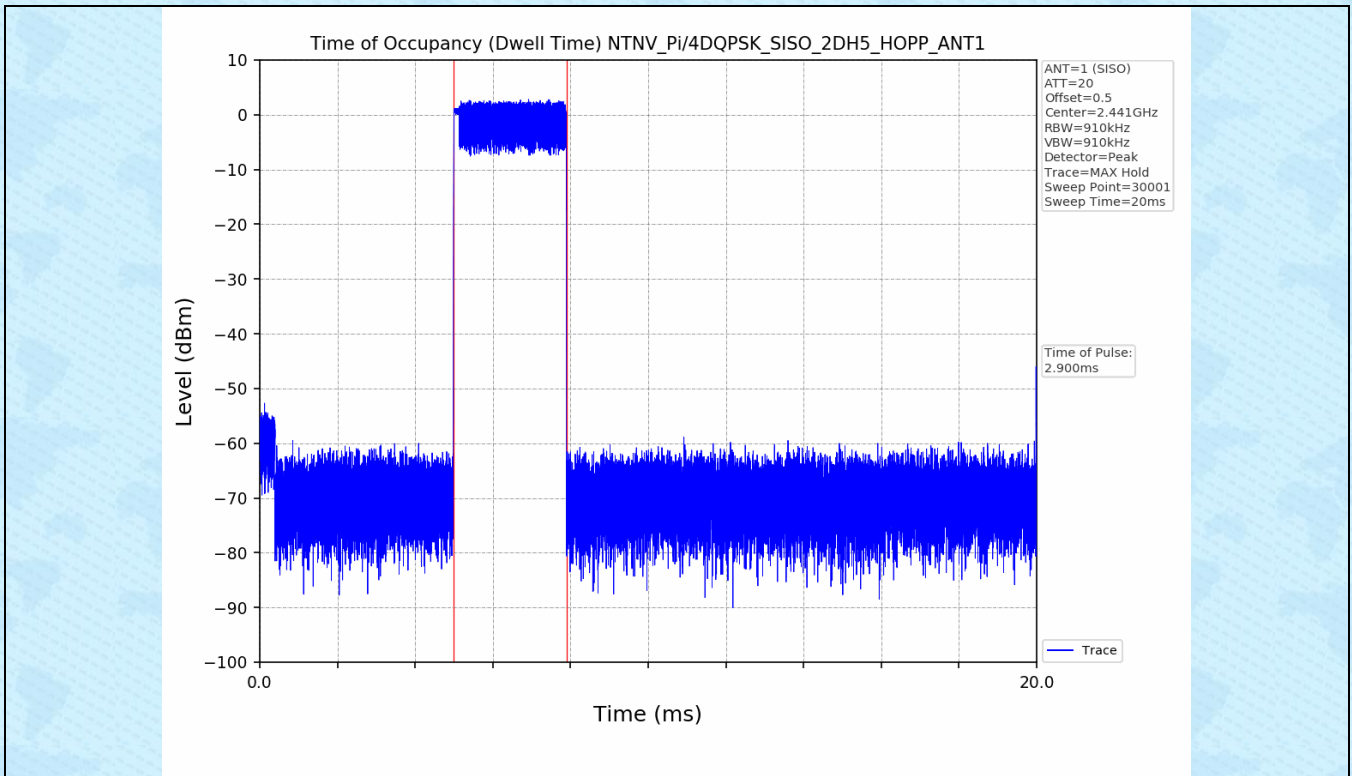


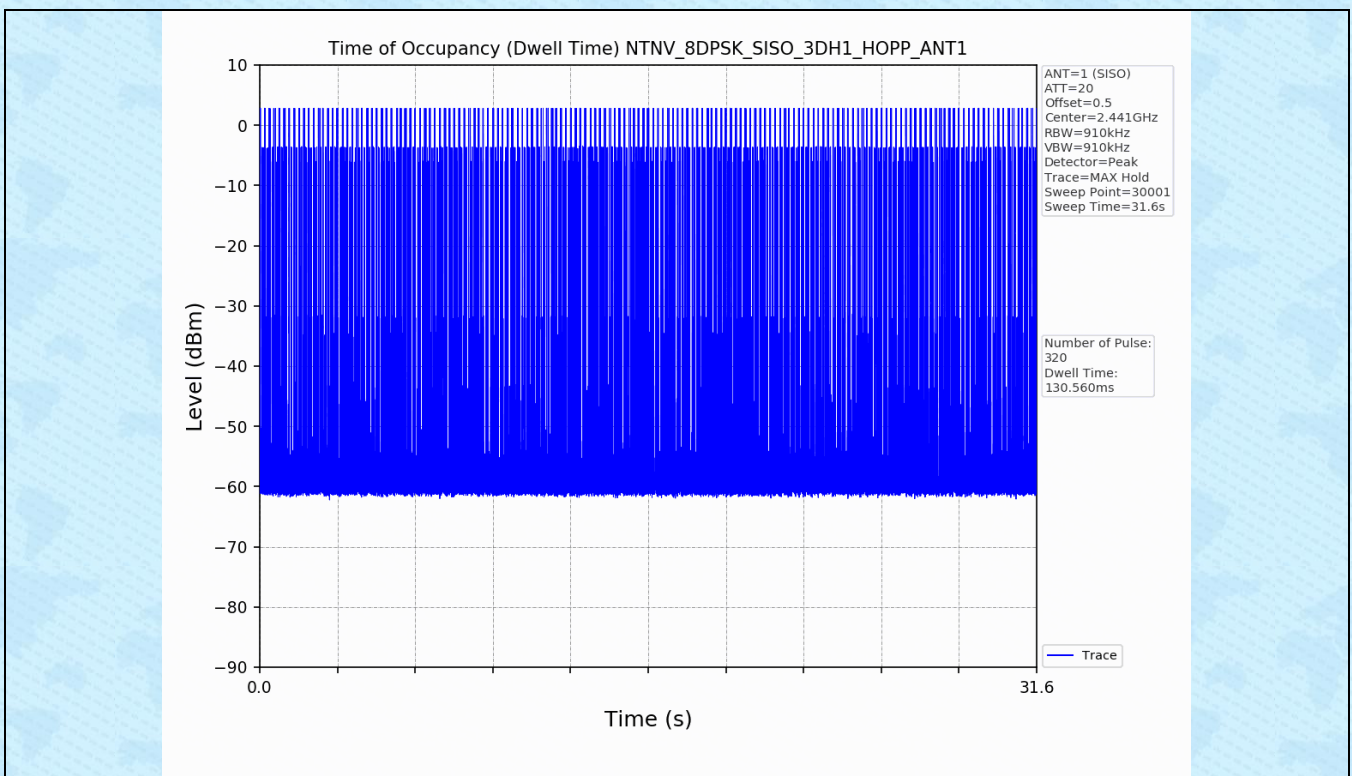
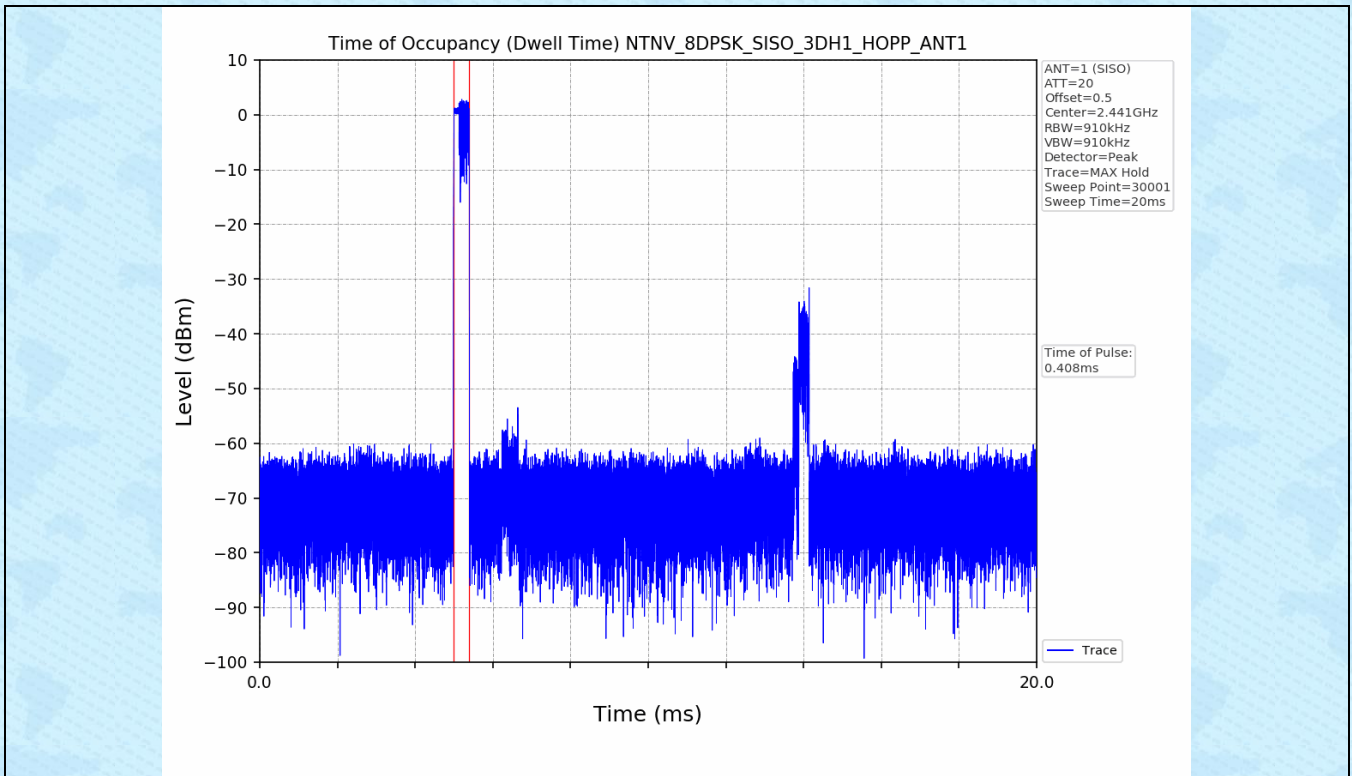


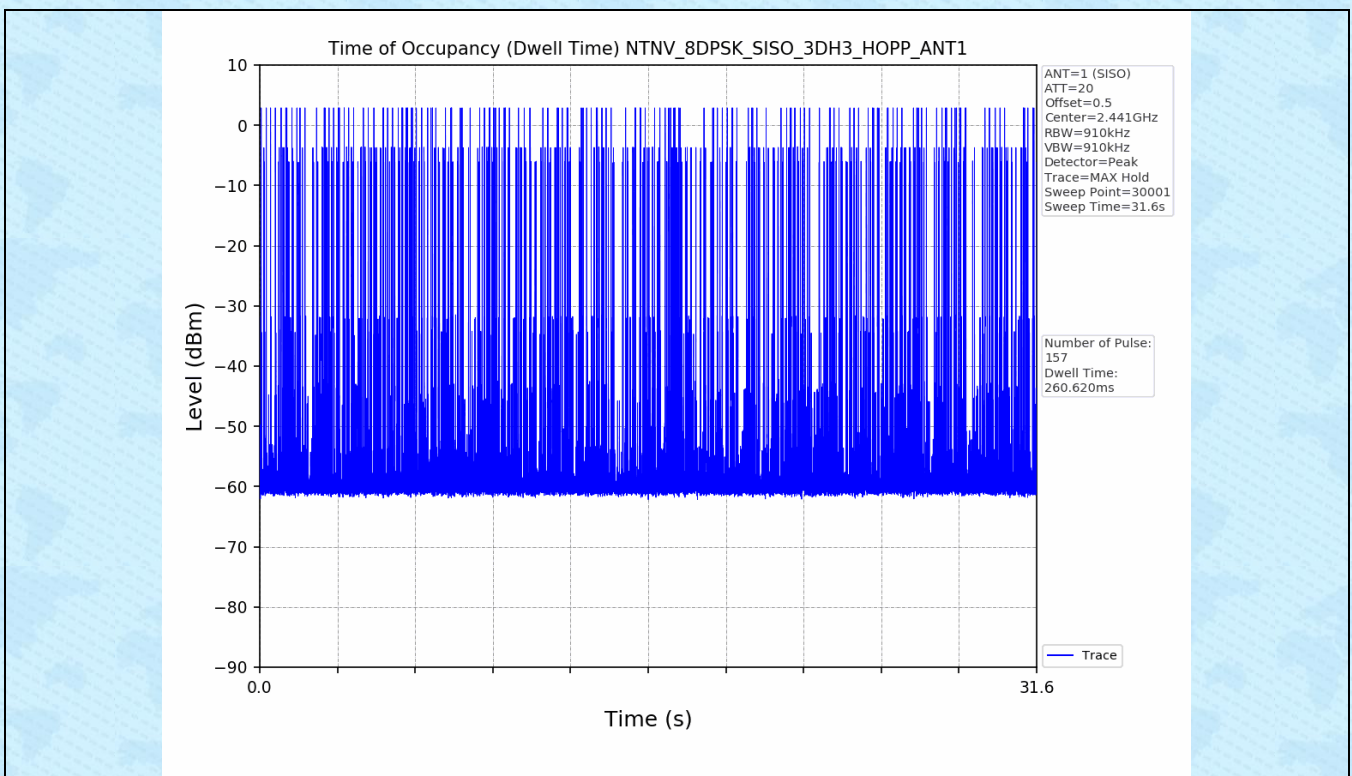
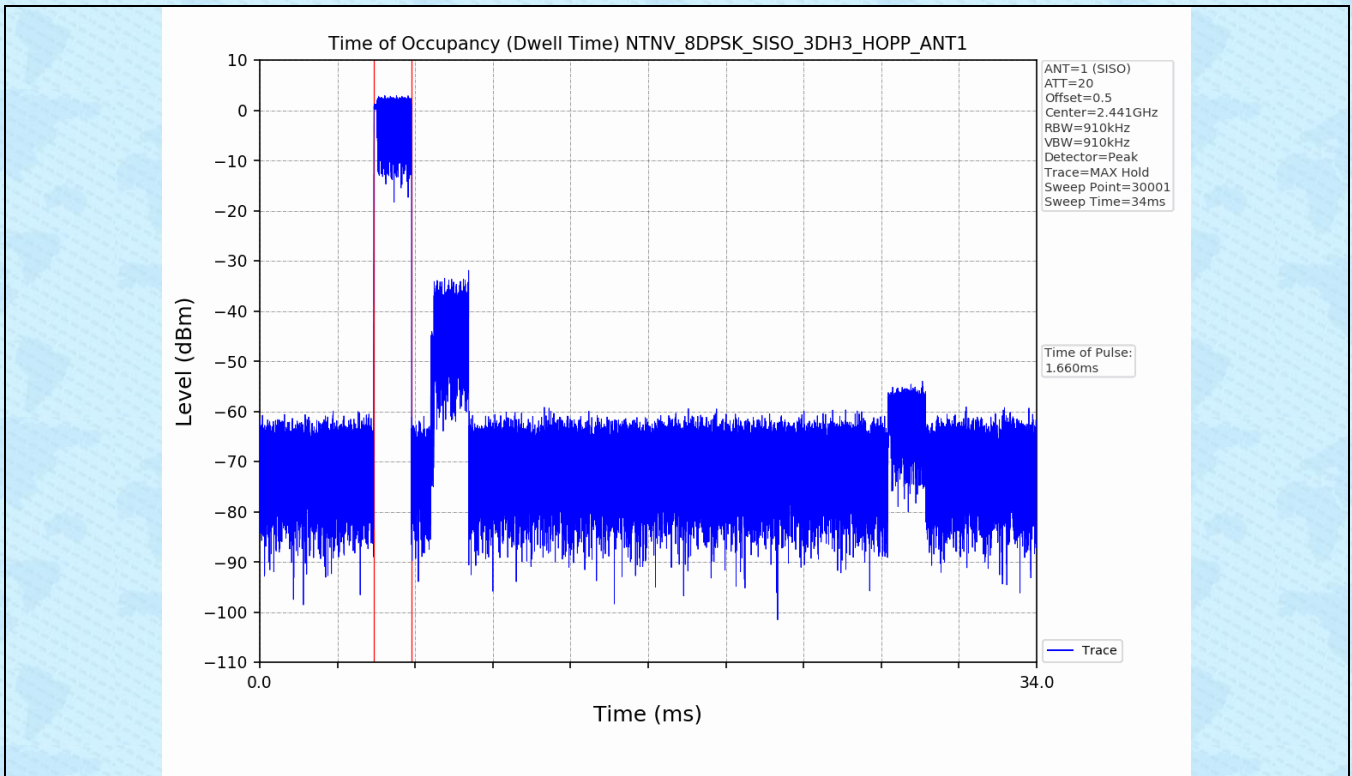


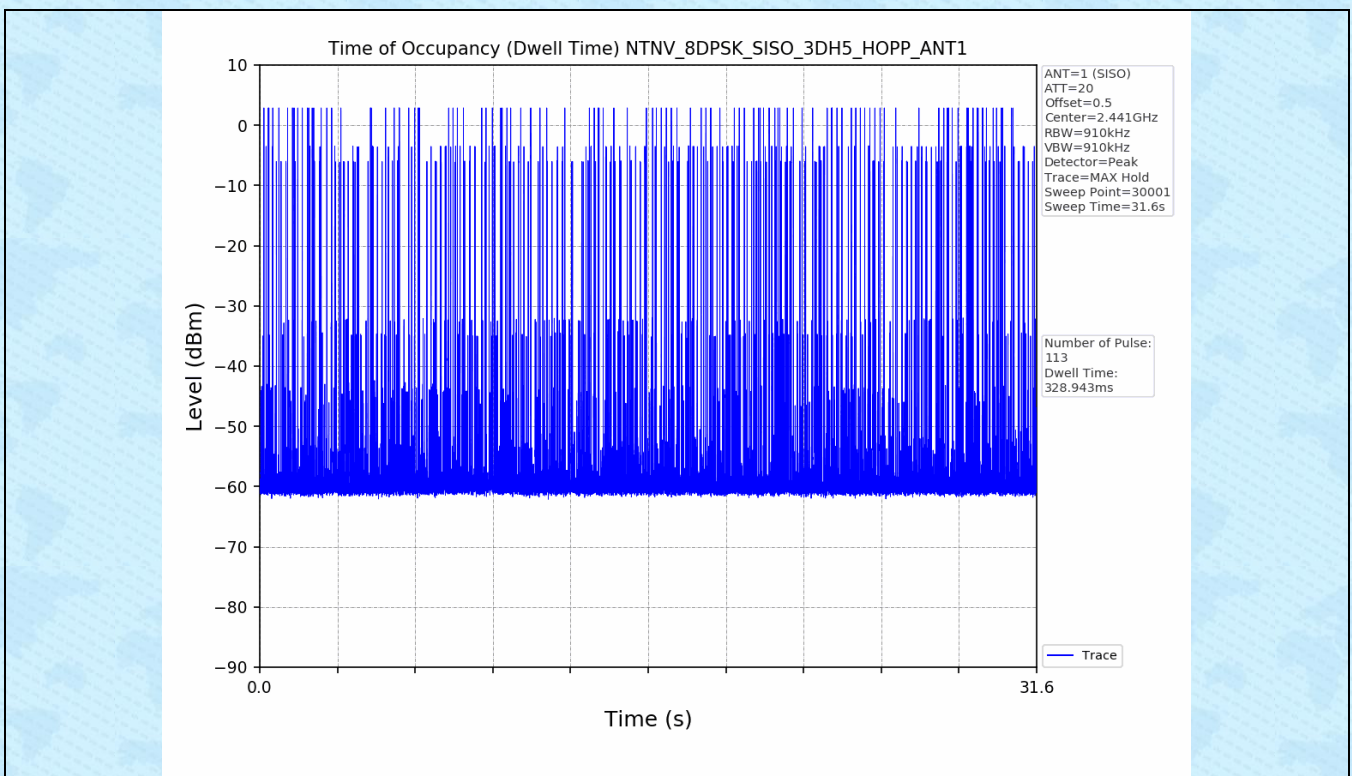
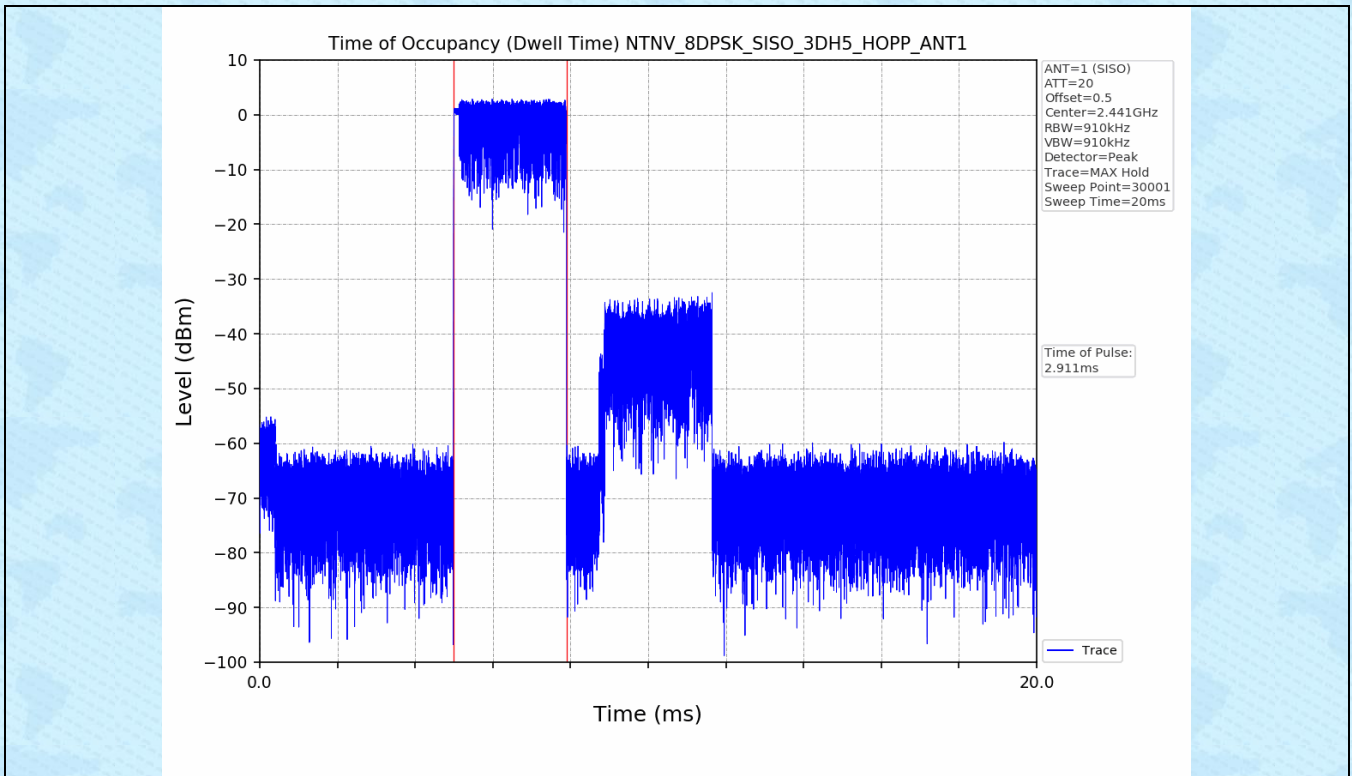










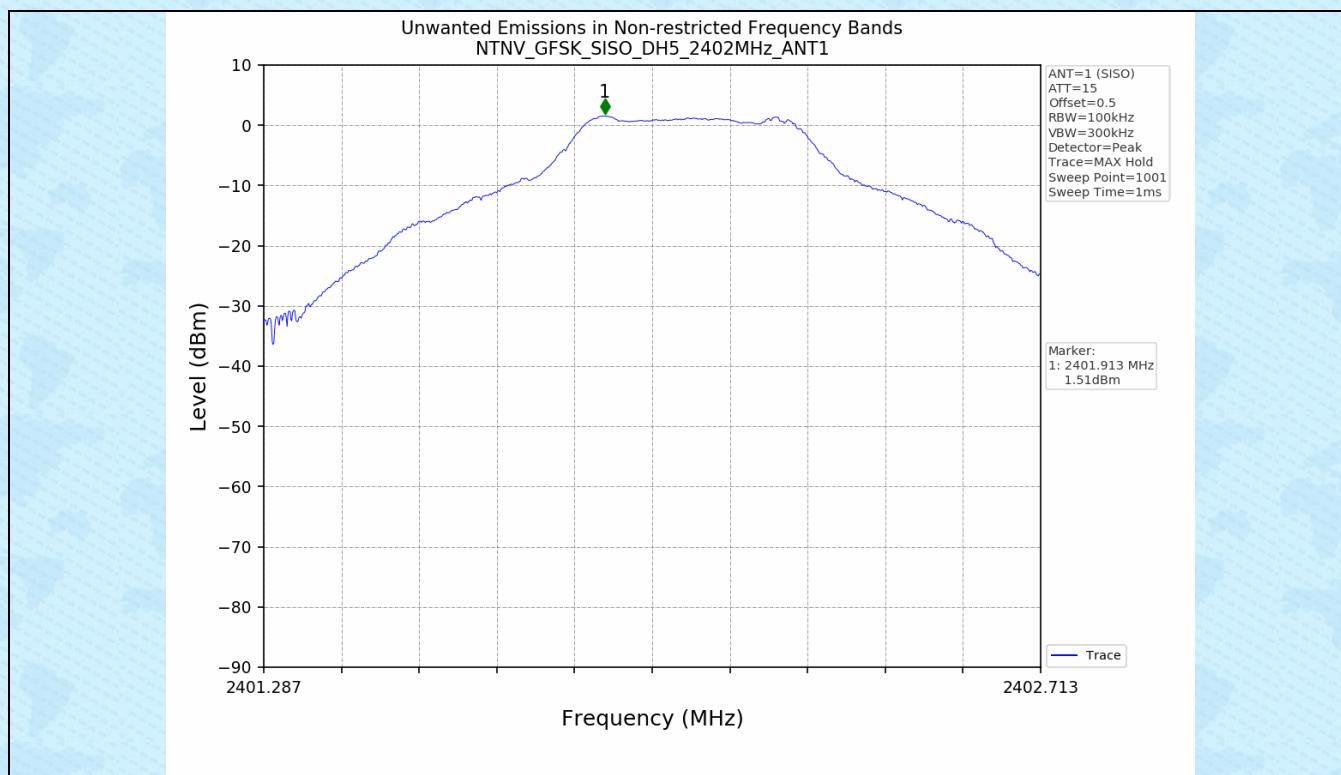


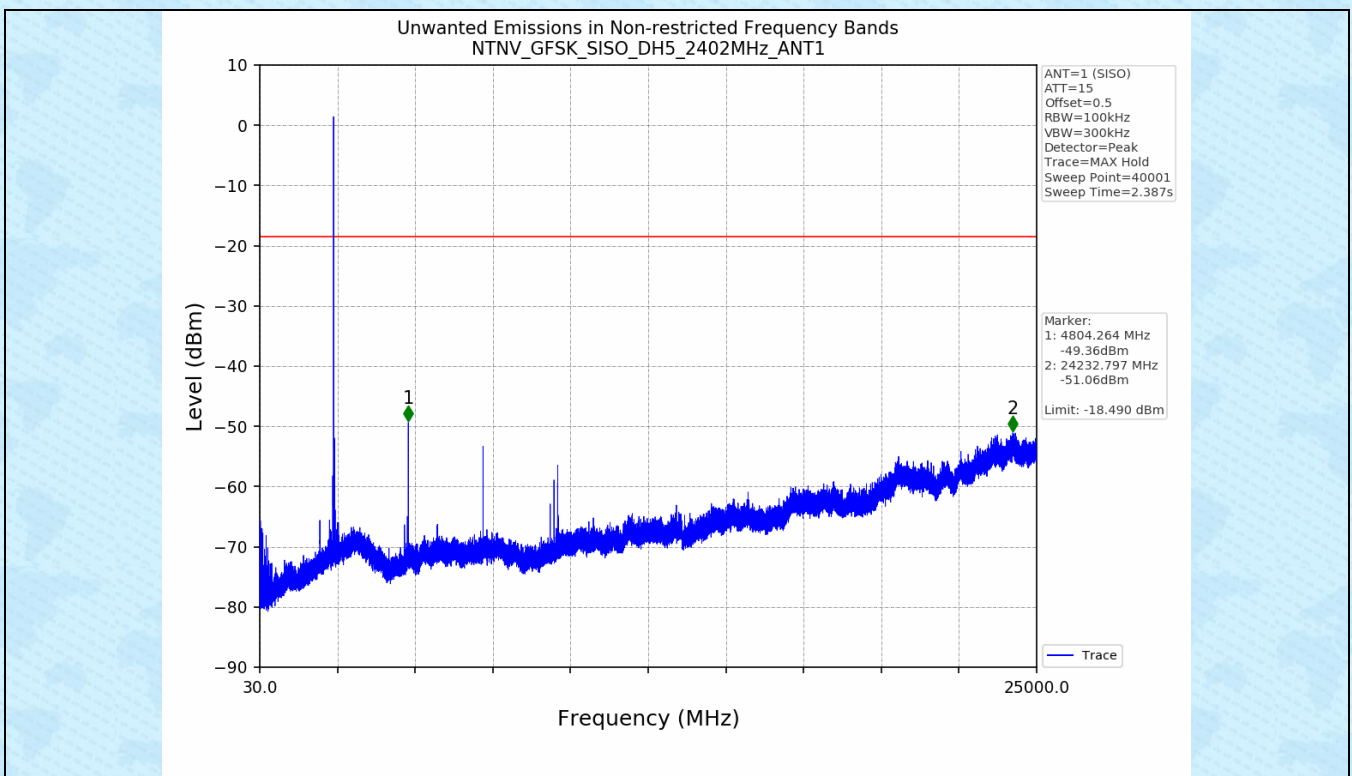
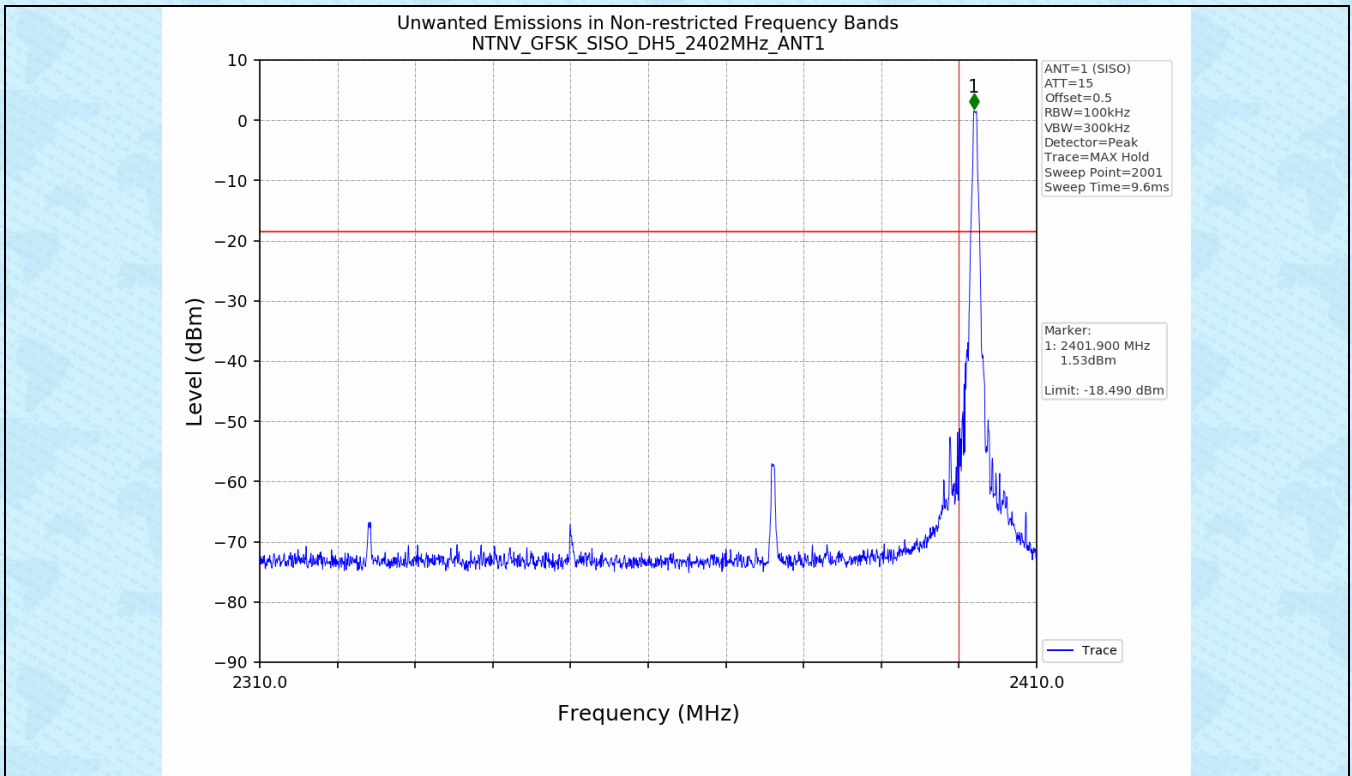
6. Unwanted Emissions in Non-restricted Frequency Bands

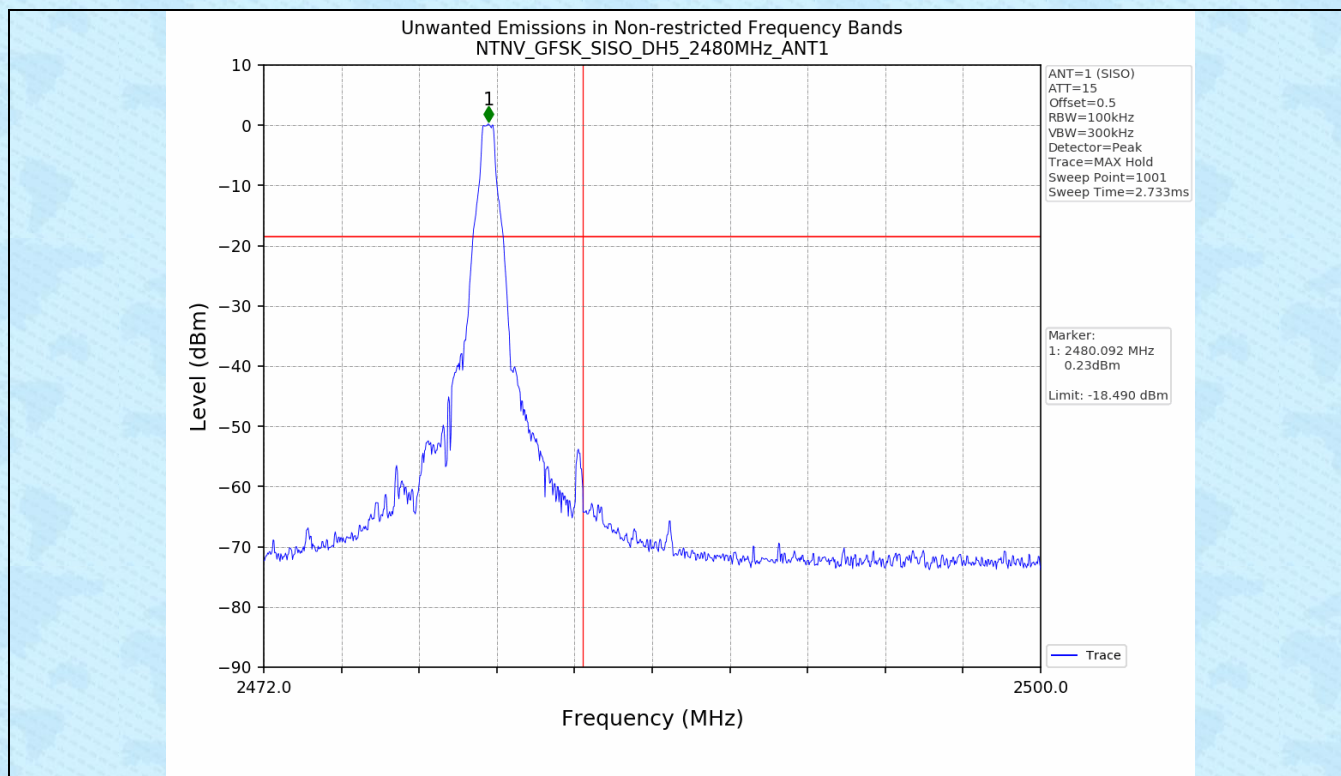
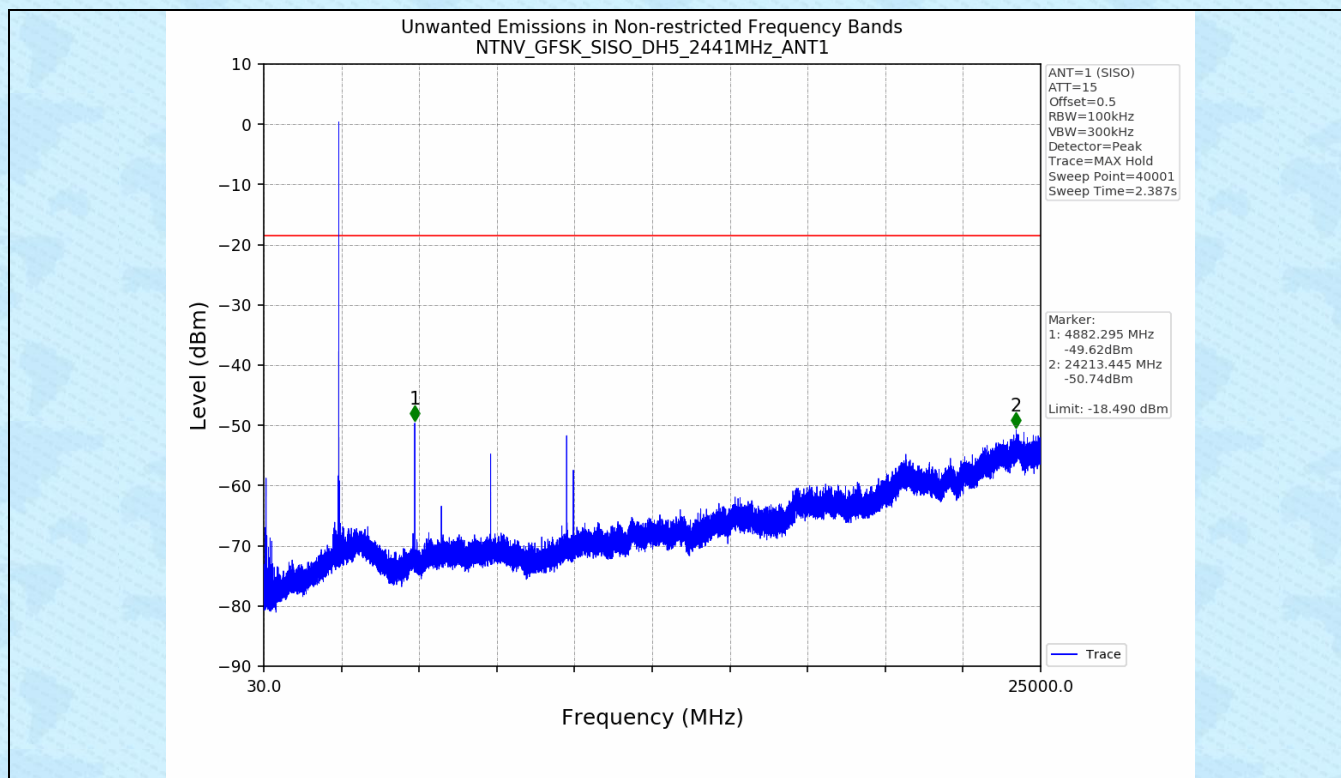
6.1 Test Result

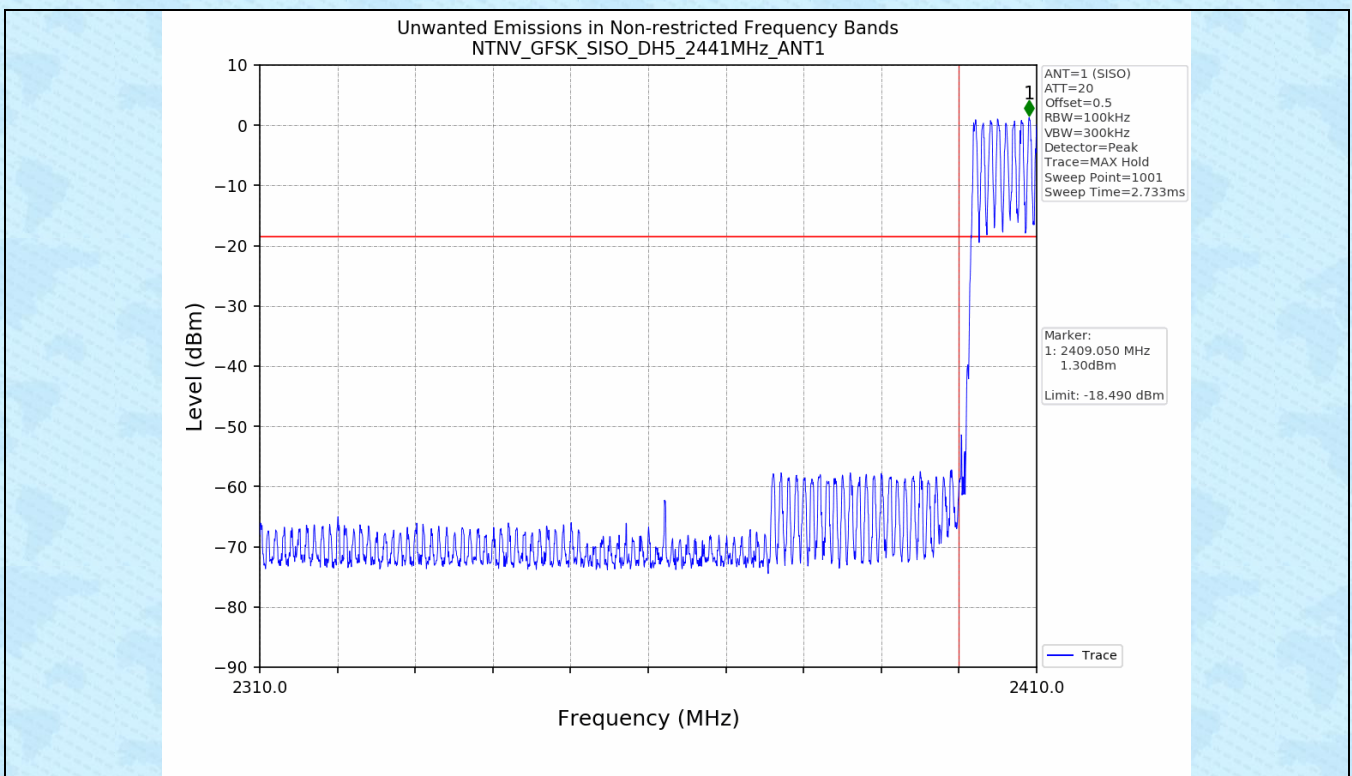
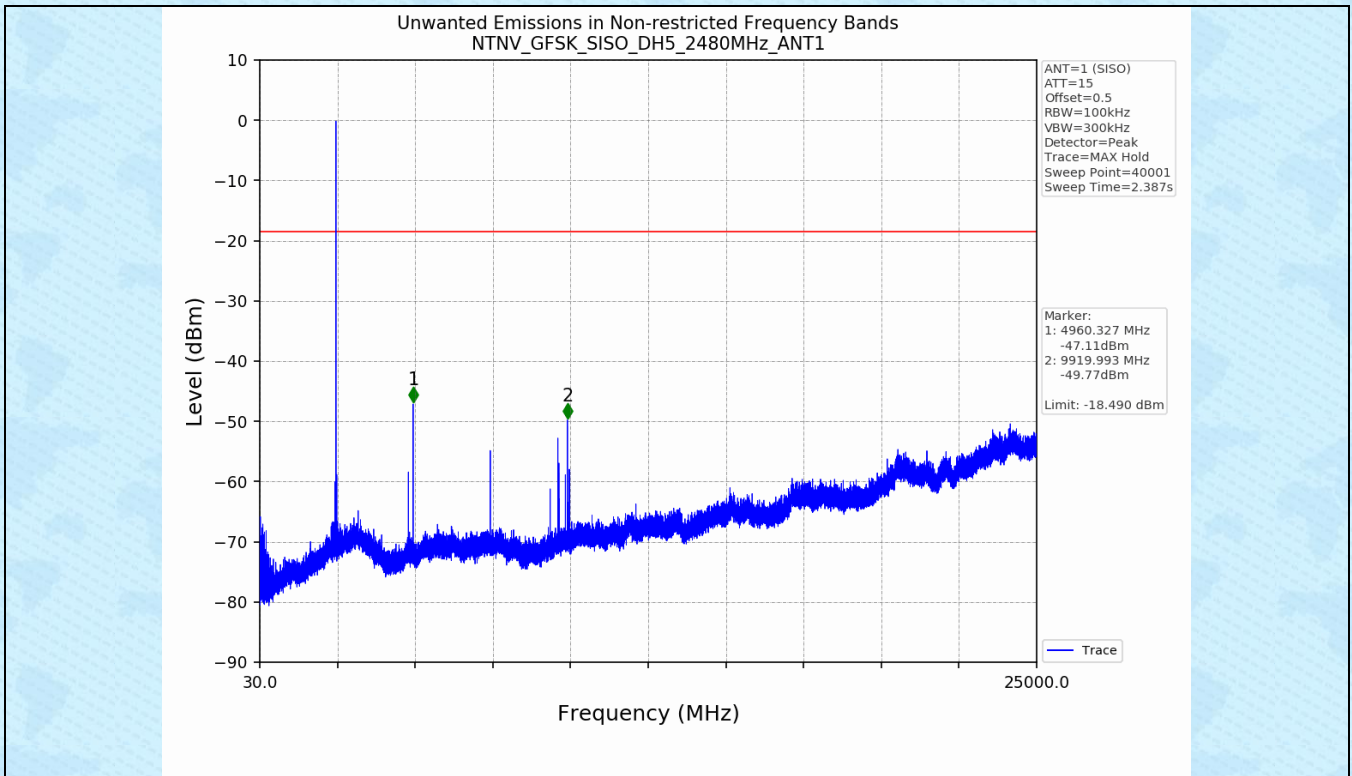
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	ANT1	Refer to test graph	-18.49	PASS
	2441	SISO	ANT1	Refer to test graph	-18.49	PASS
	2480	SISO	ANT1	Refer to test graph	-18.49	PASS
	Hopping	SISO	ANT1	Refer to test graph	-18.49	PASS
$\pi/4$ -DQPSK	2402	SISO	ANT1	Refer to test graph	-18.50	PASS
	2441	SISO	ANT1	Refer to test graph	-18.50	PASS
	2480	SISO	ANT1	Refer to test graph	-18.50	PASS
	Hopping	SISO	ANT1	Refer to test graph	-18.50	PASS
8-DPSK	2402	SISO	ANT1	Refer to test graph	-18.18	PASS
	2441	SISO	ANT1	Refer to test graph	-18.18	PASS
	2480	SISO	ANT1	Refer to test graph	-18.18	PASS
	Hopping	SISO	ANT1	Refer to test graph	-18.18	PASS

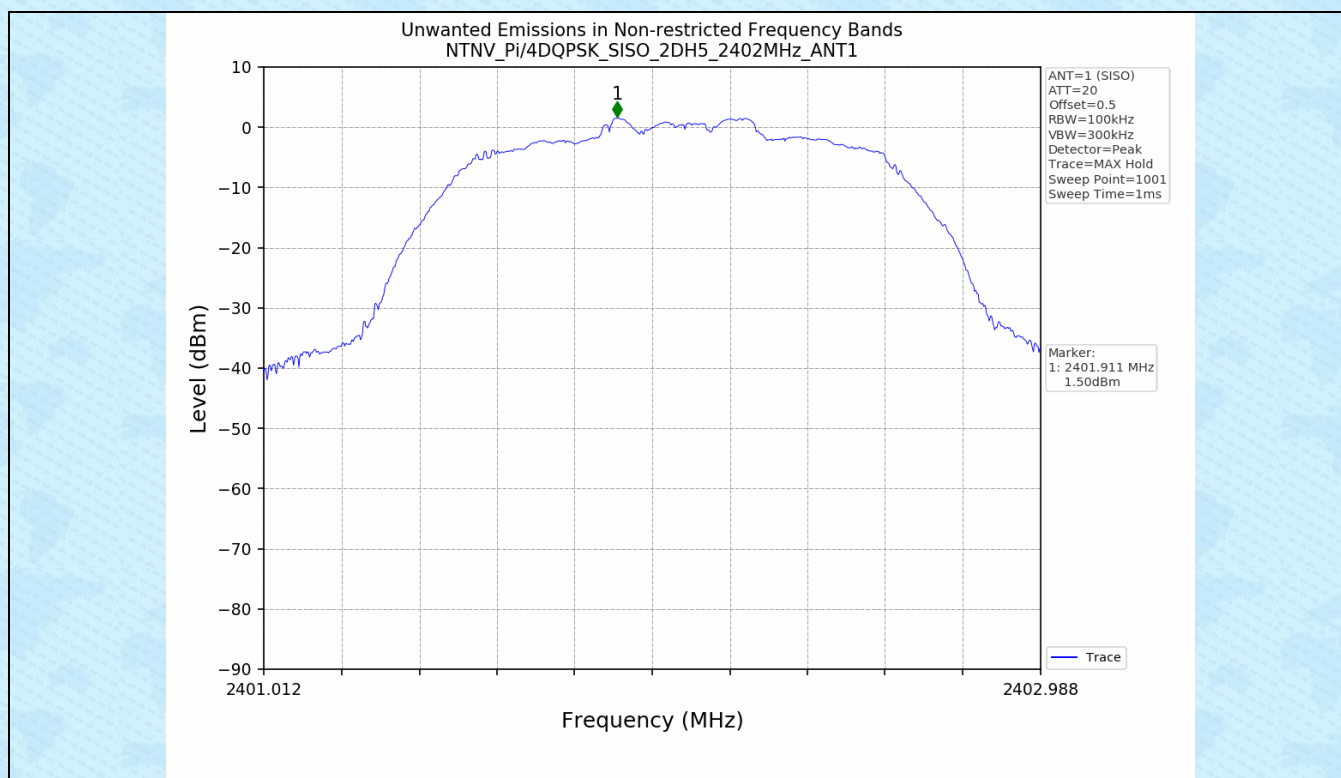
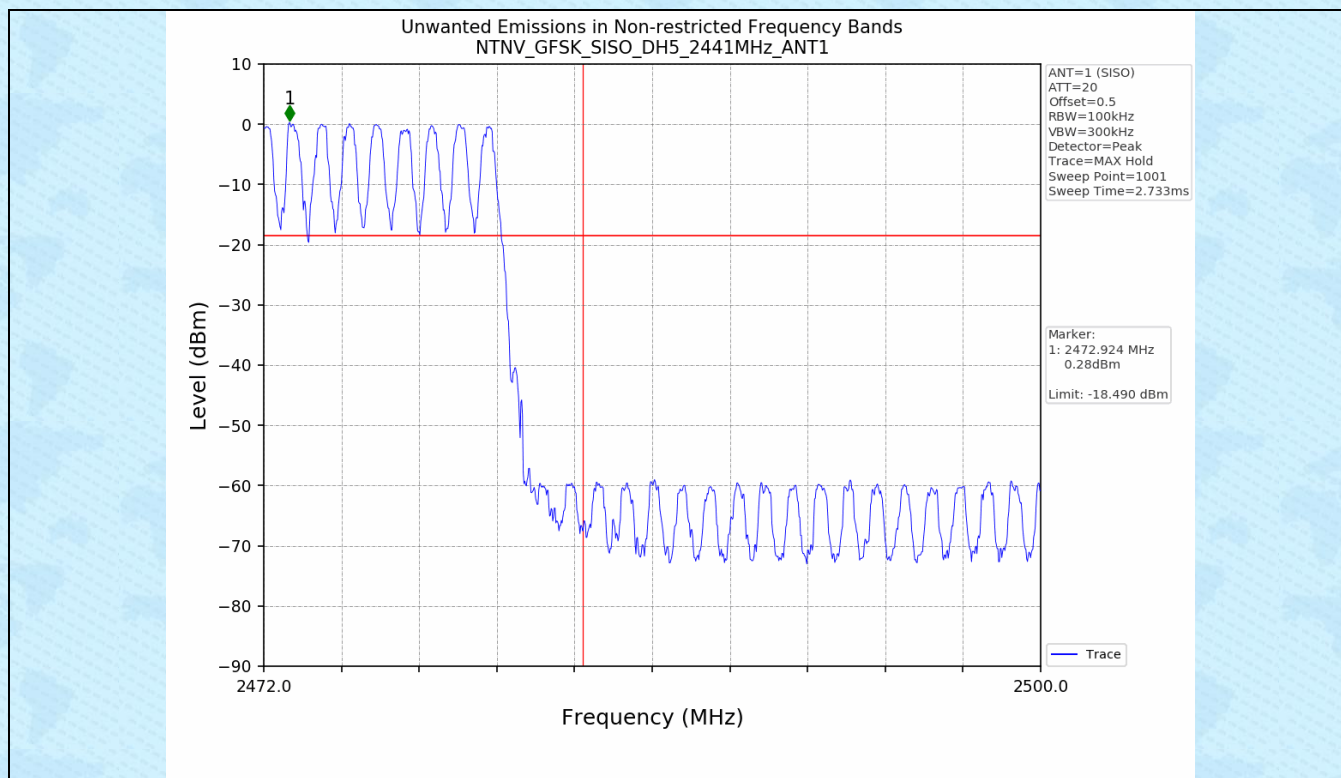
6.2 Test Graph

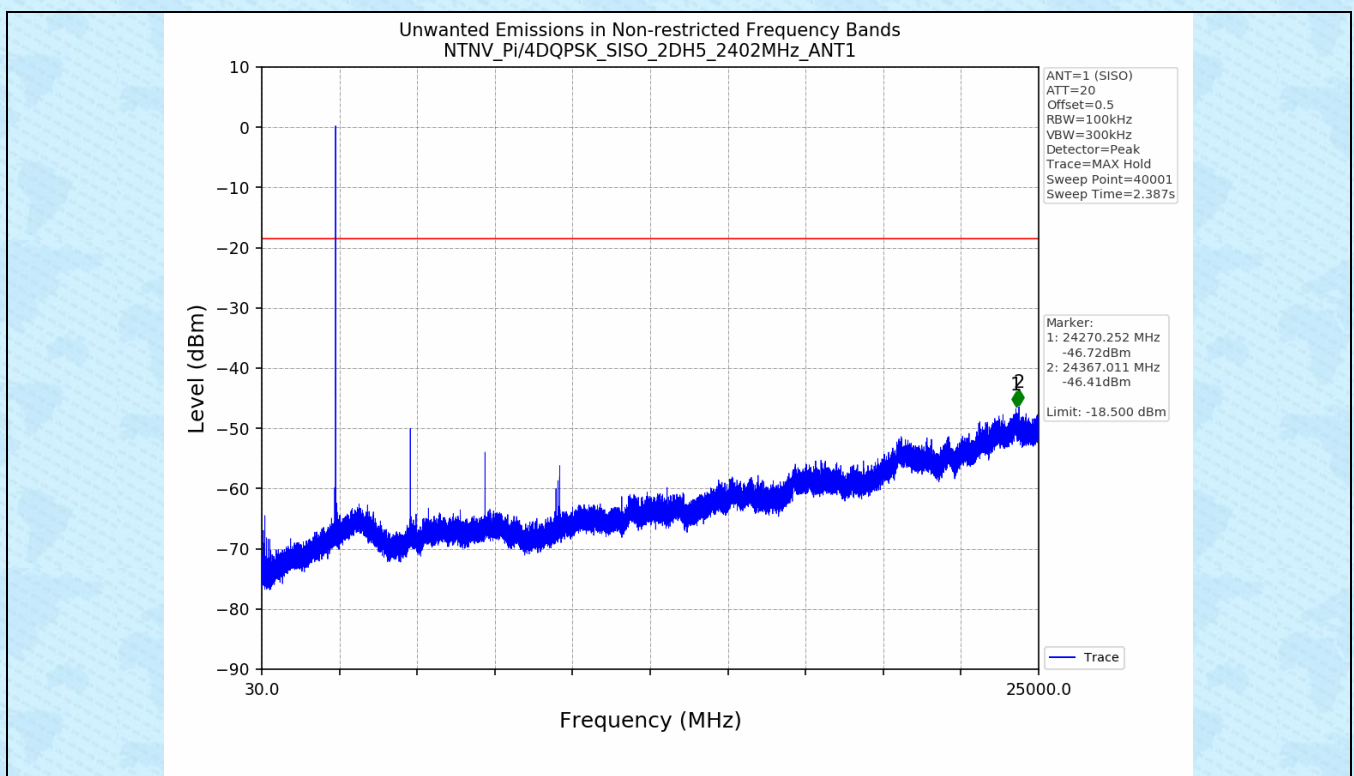
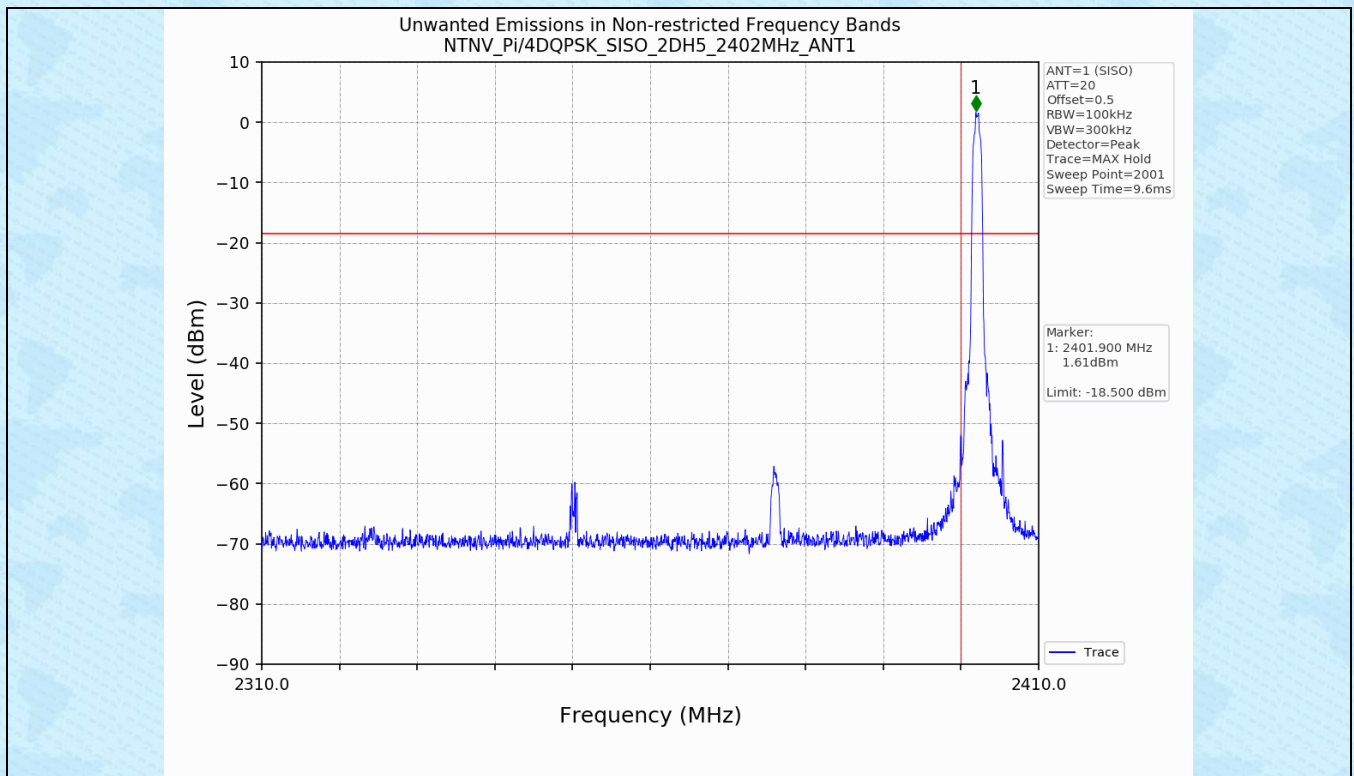


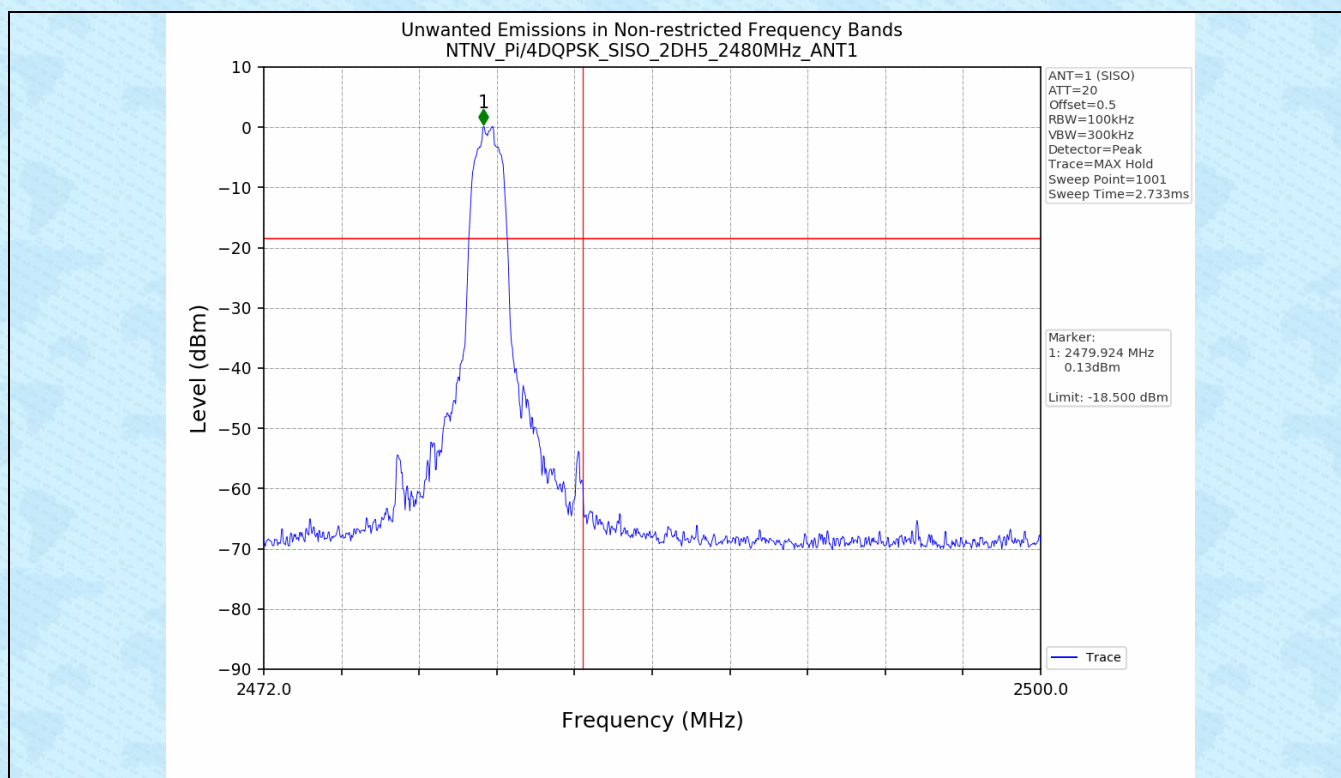
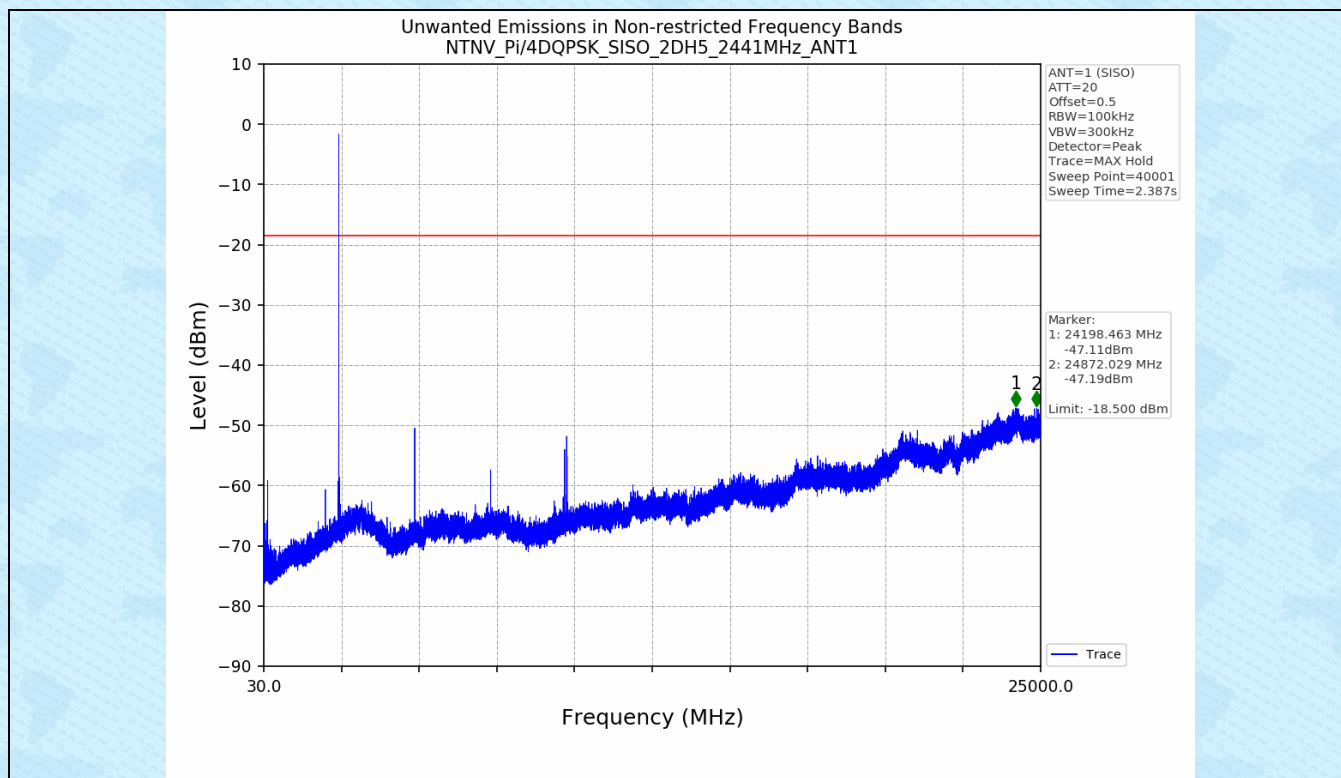


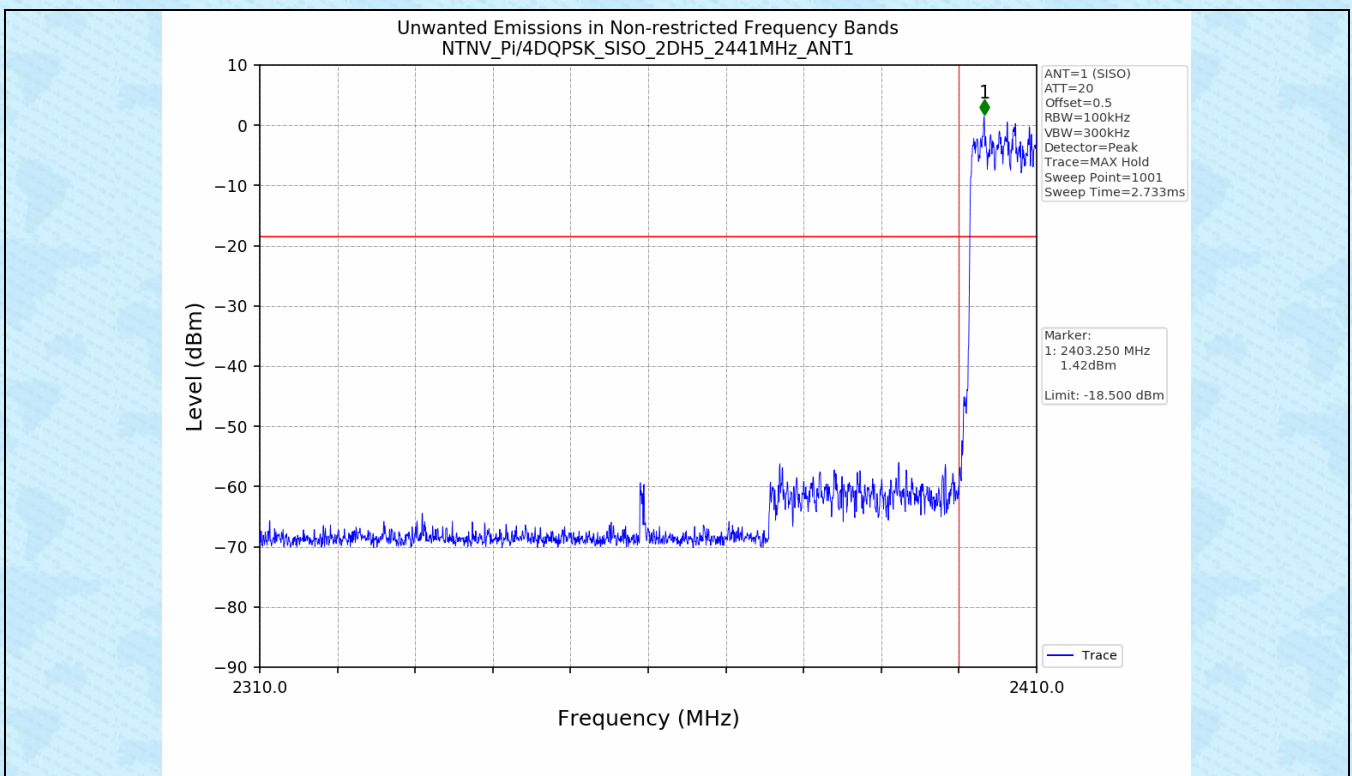
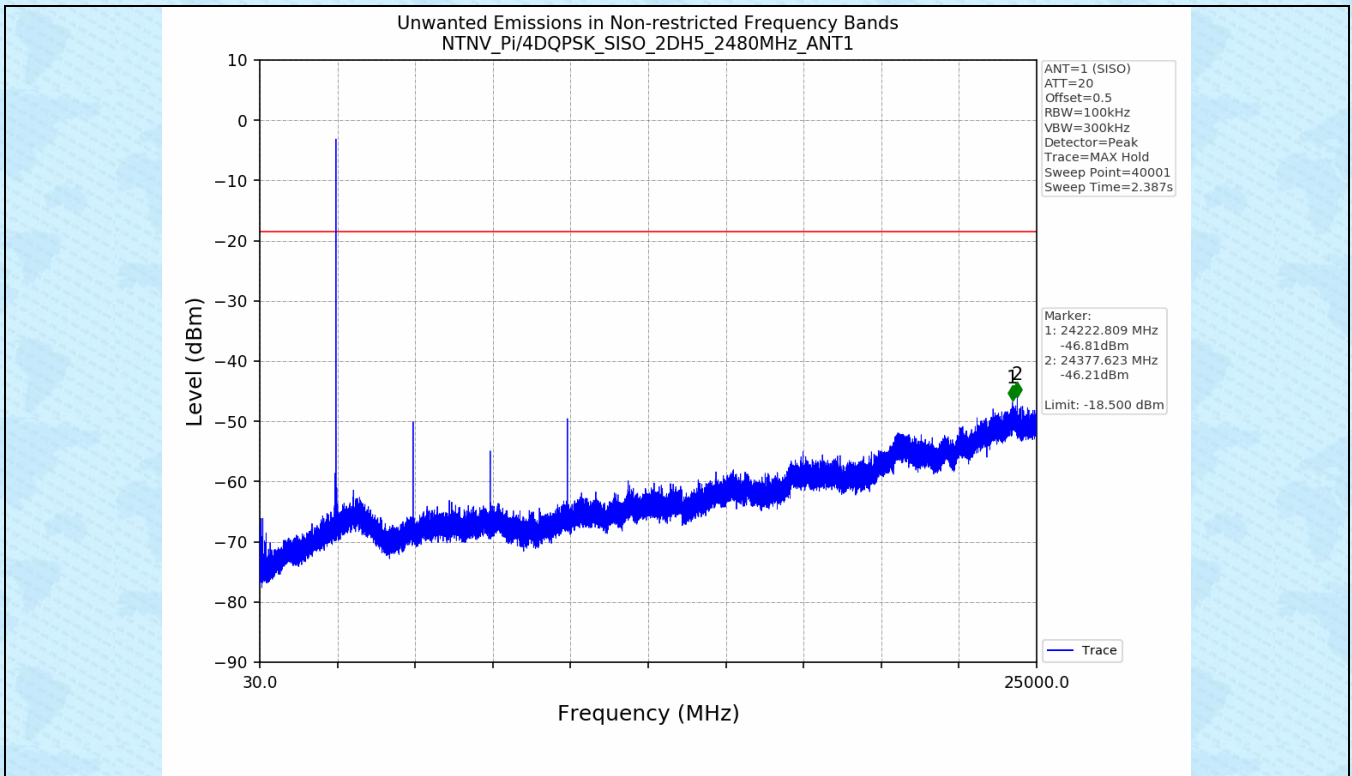


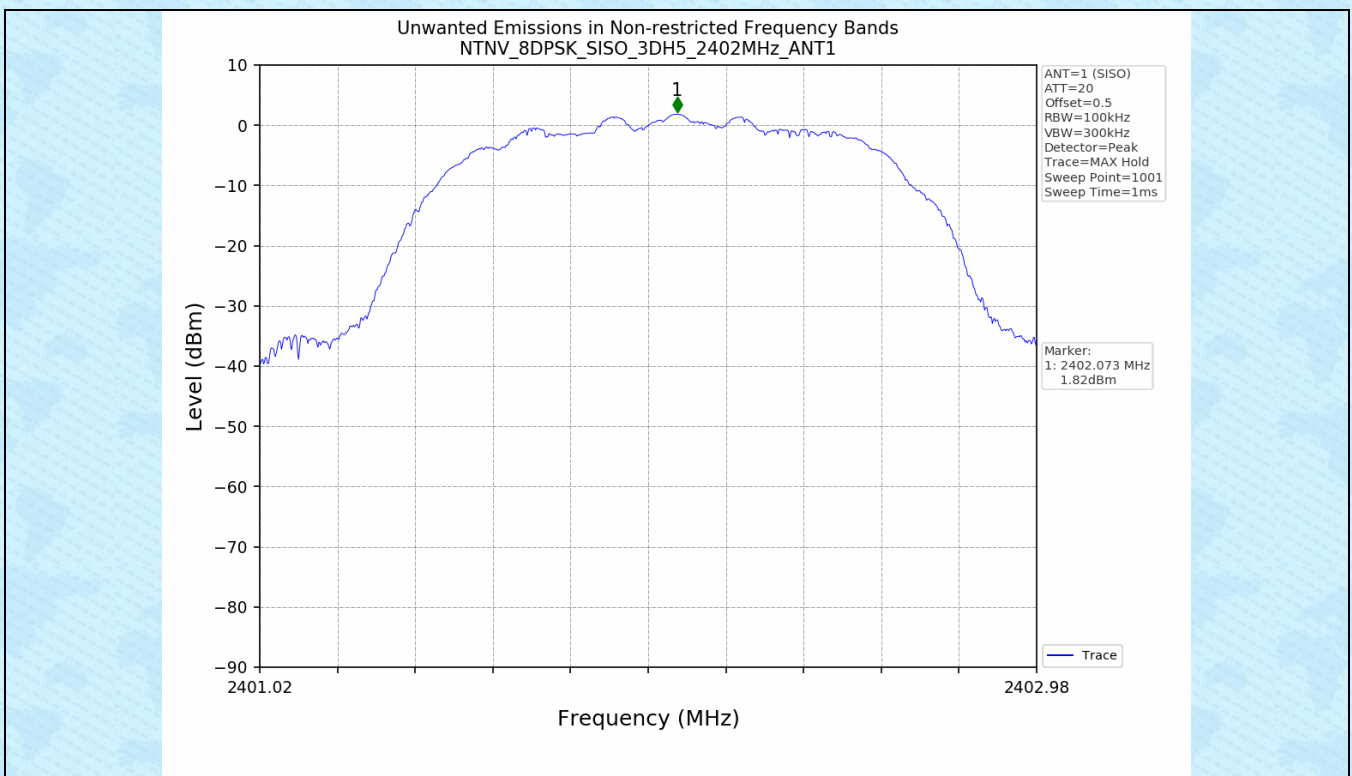
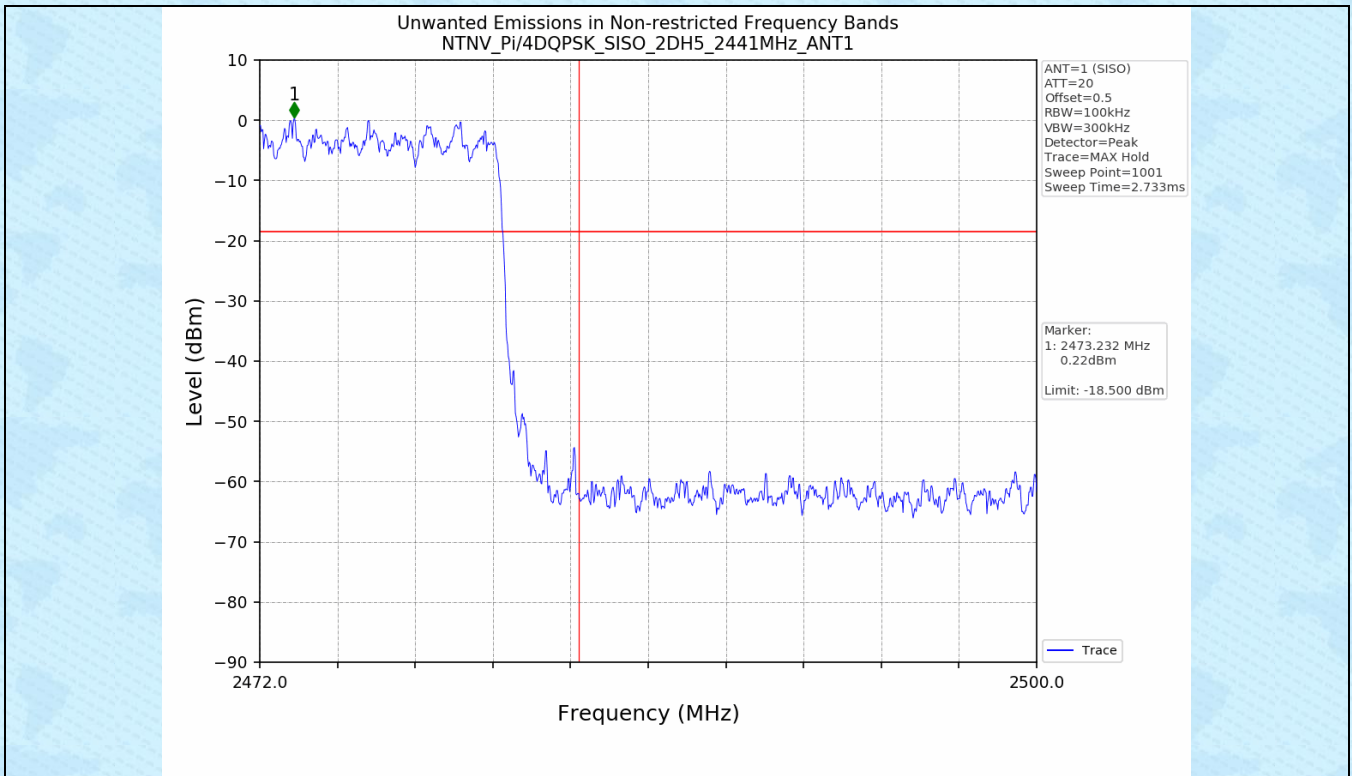


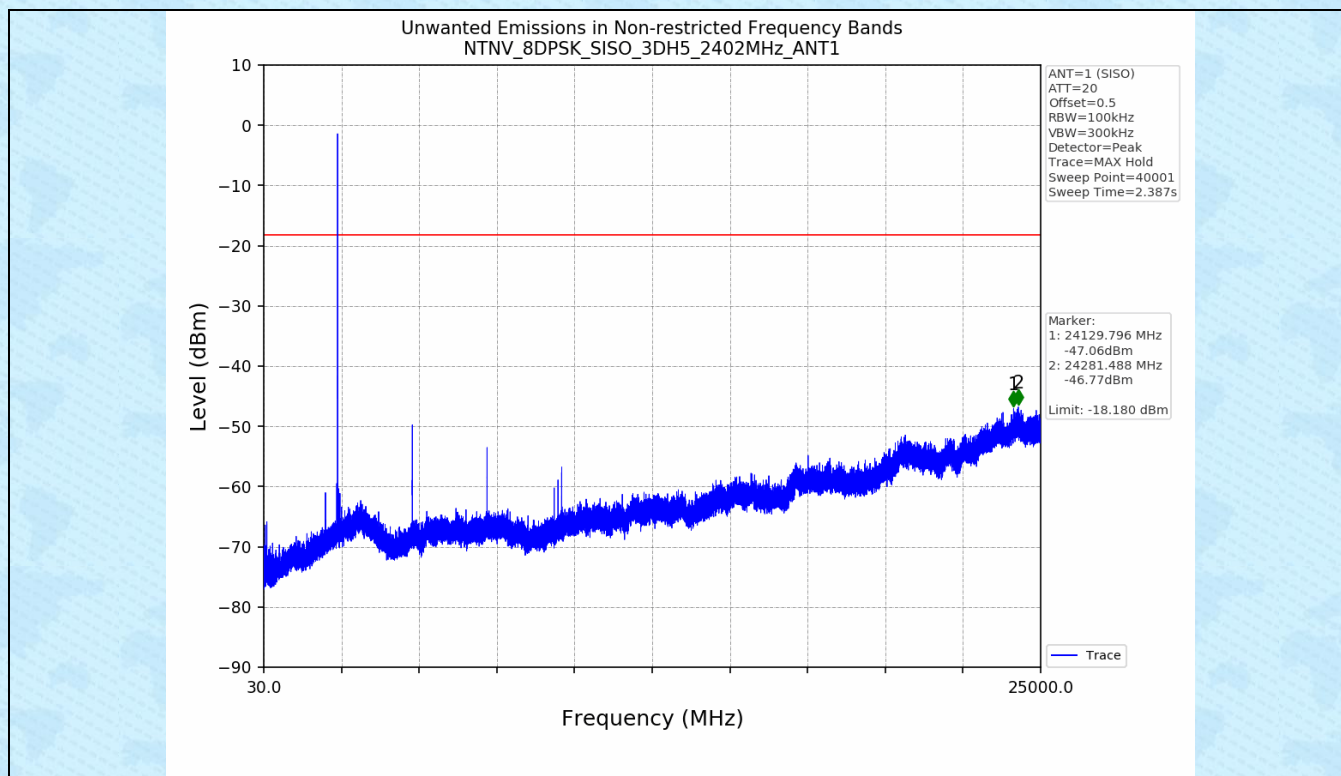
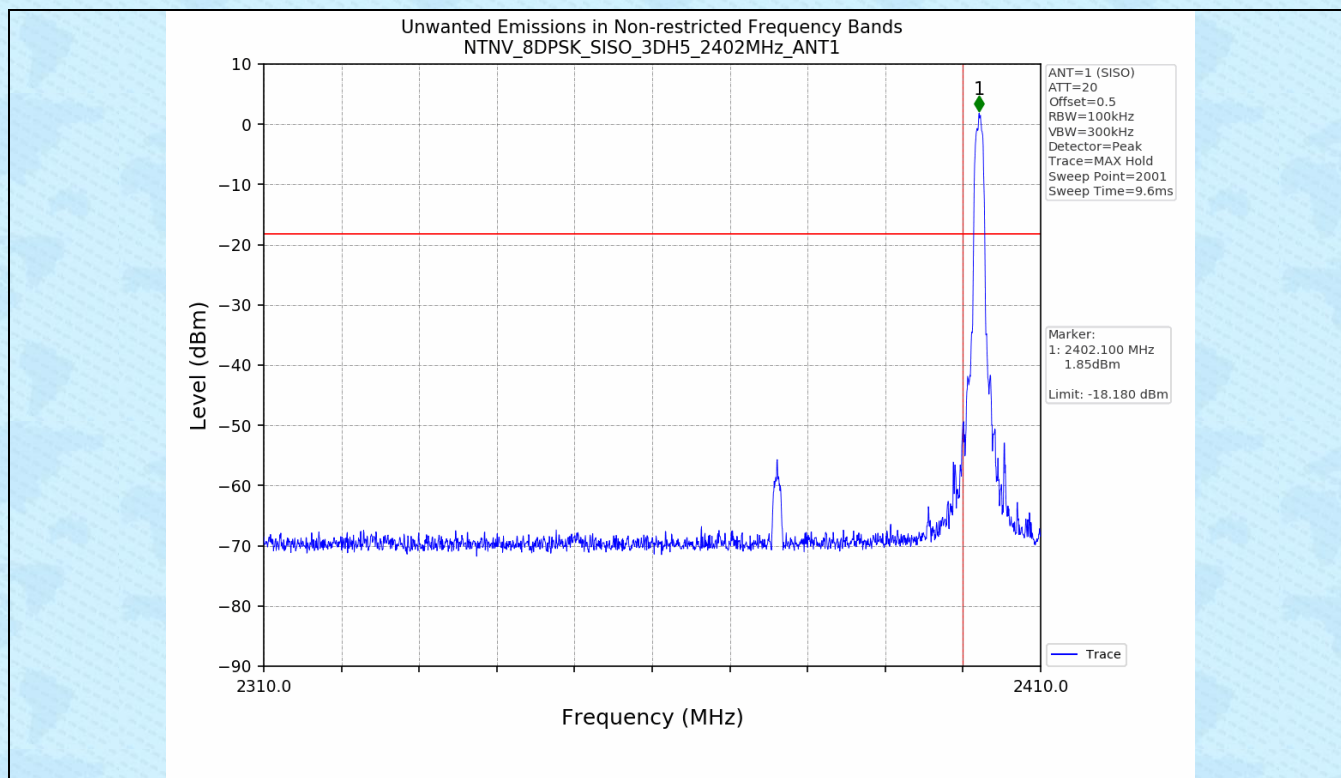


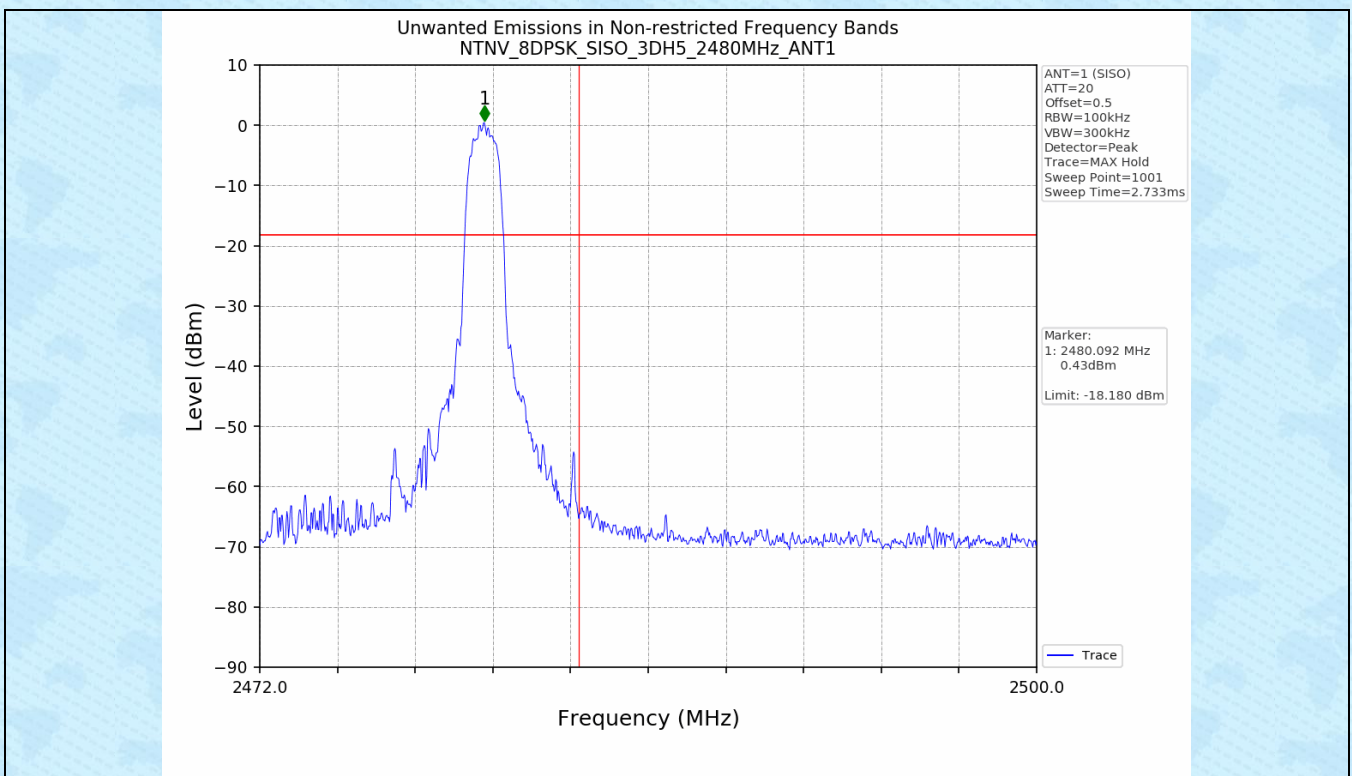
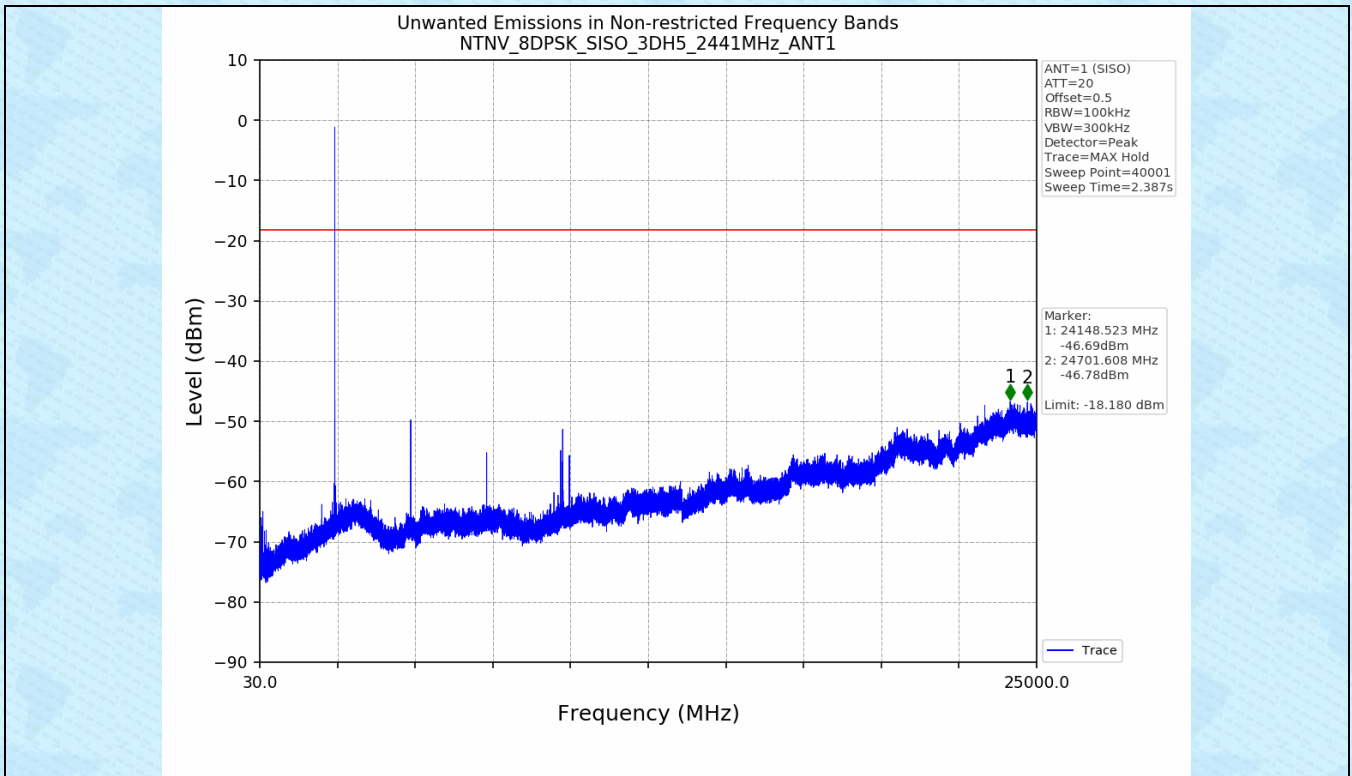


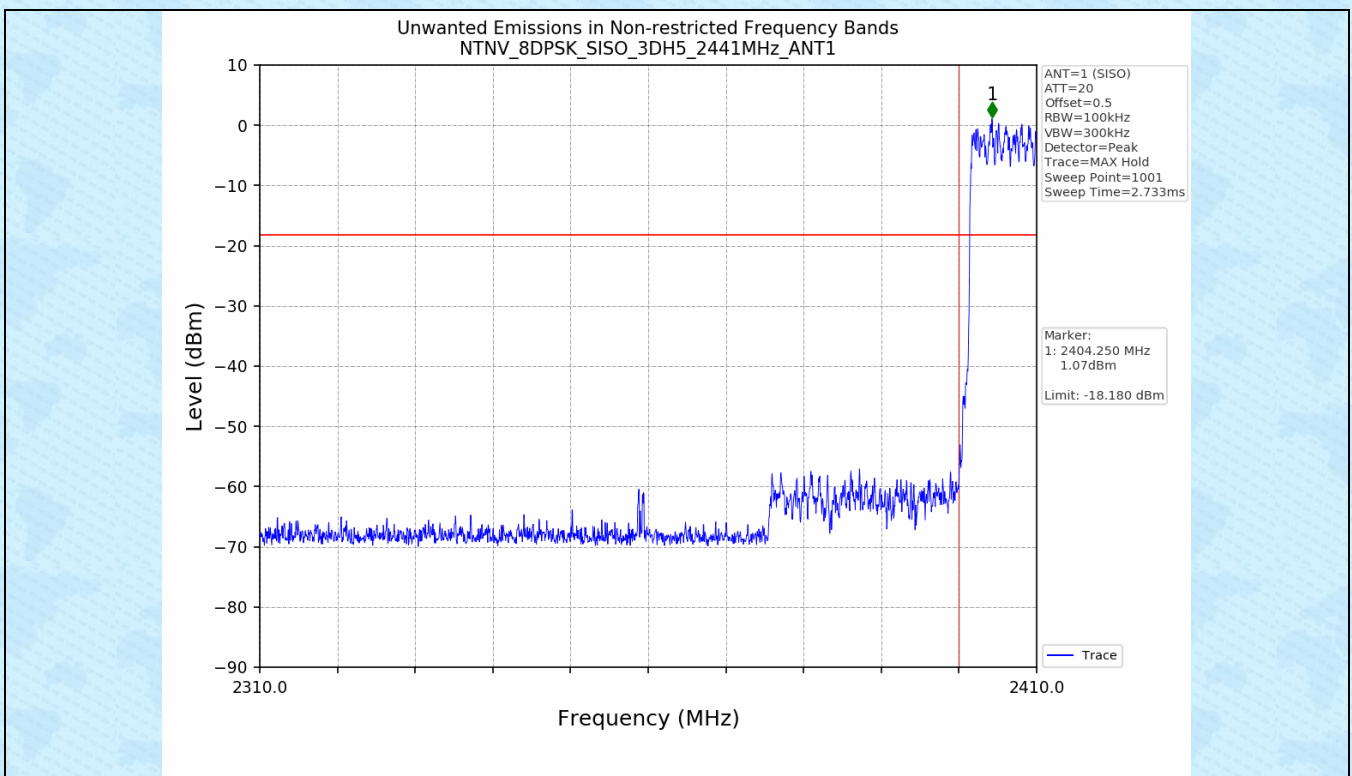
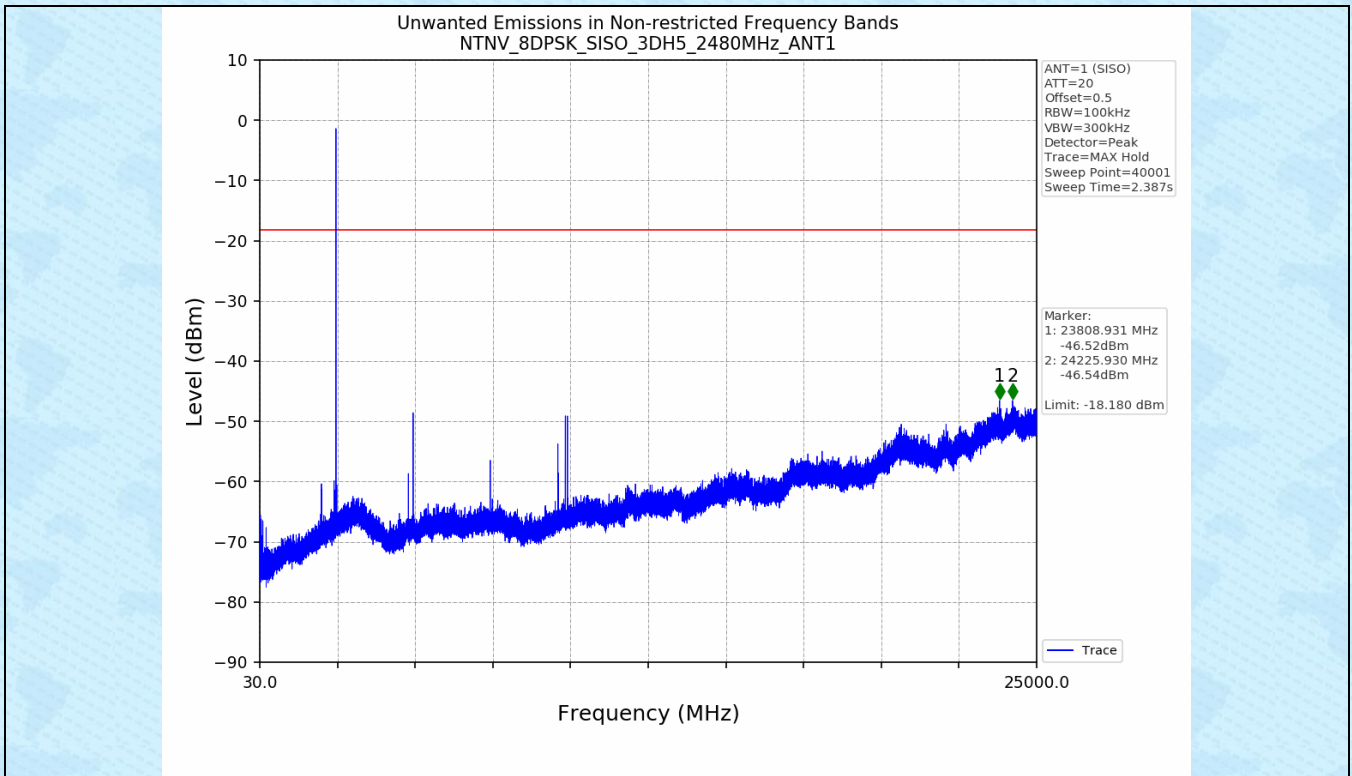


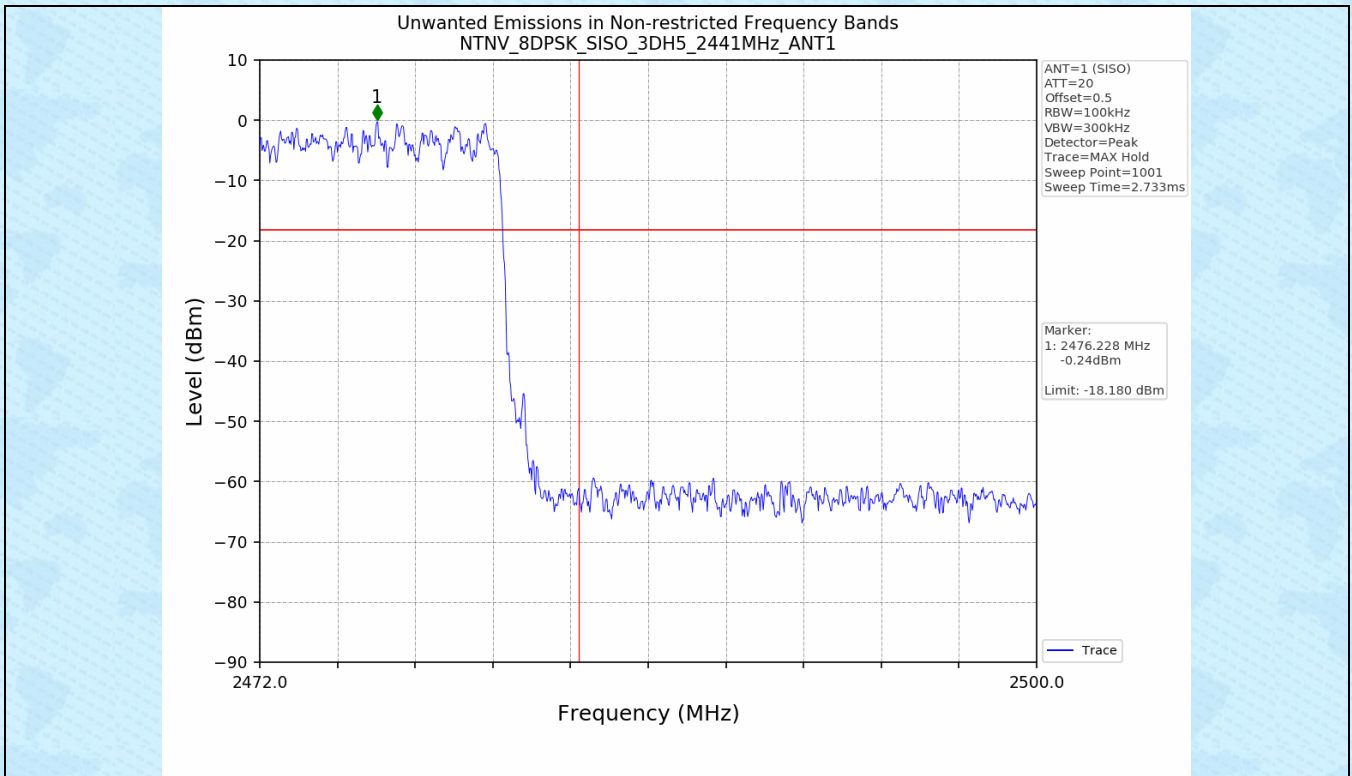












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