

Appendix for 15.247

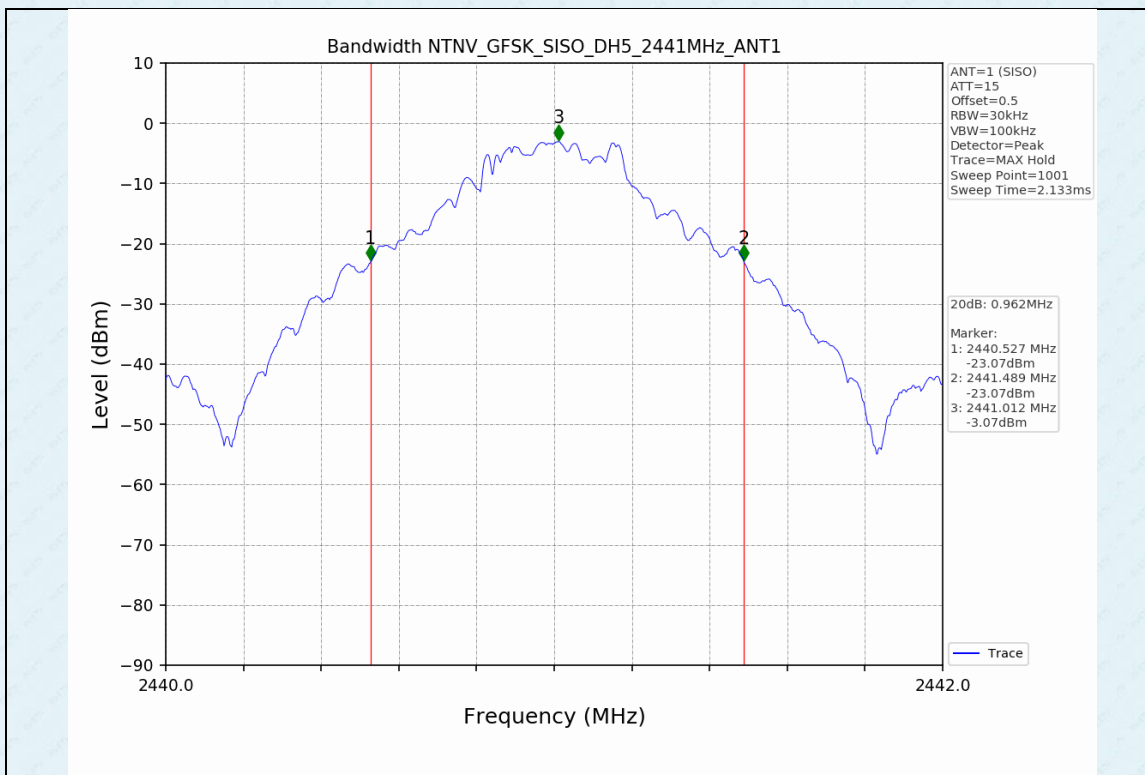
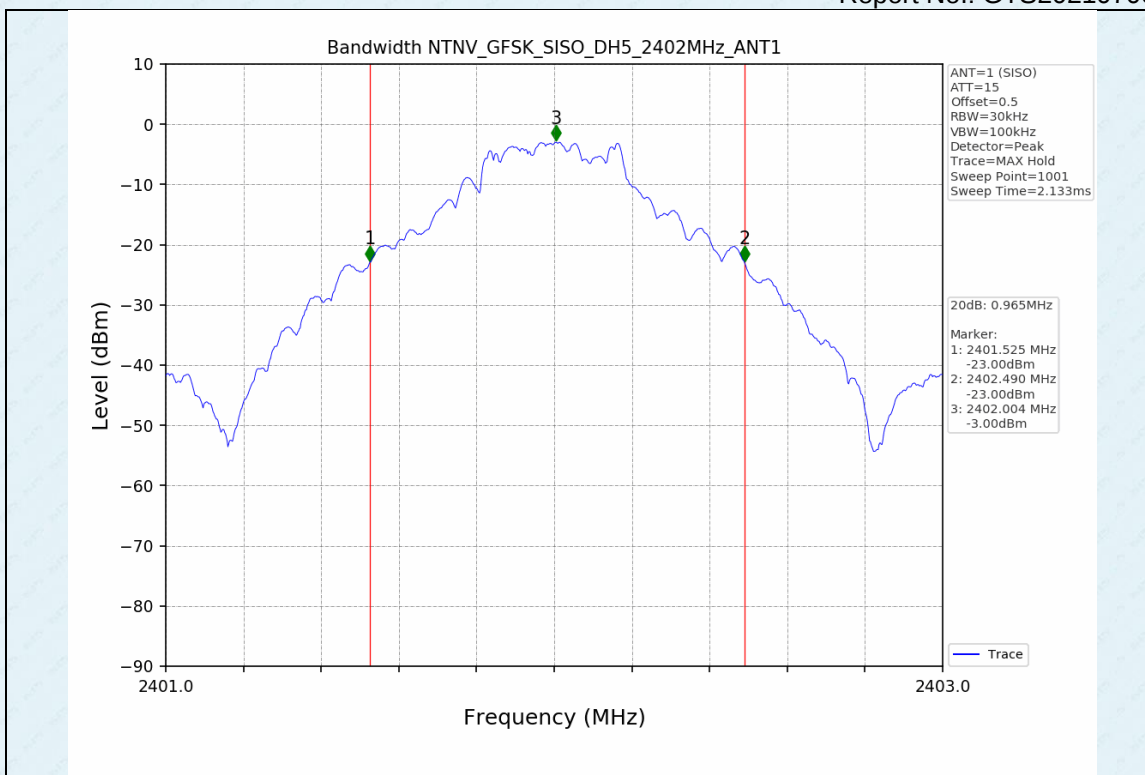
1. Bandwidth

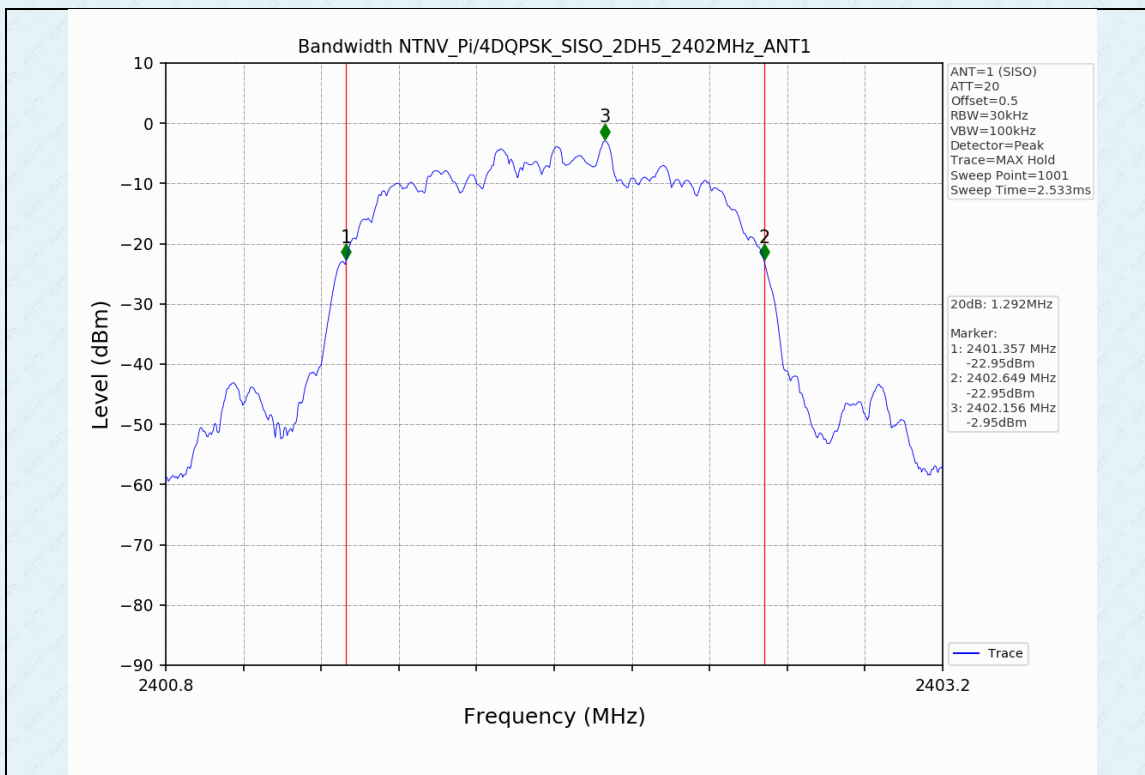
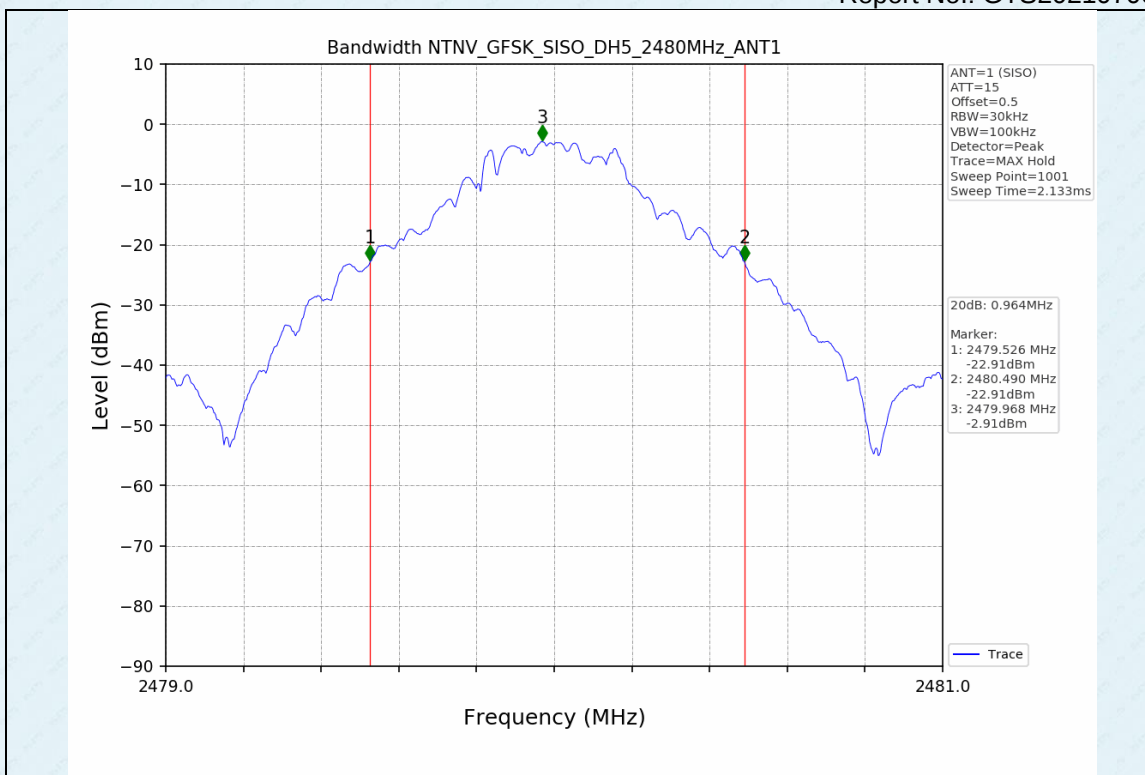
1.1 Test Result

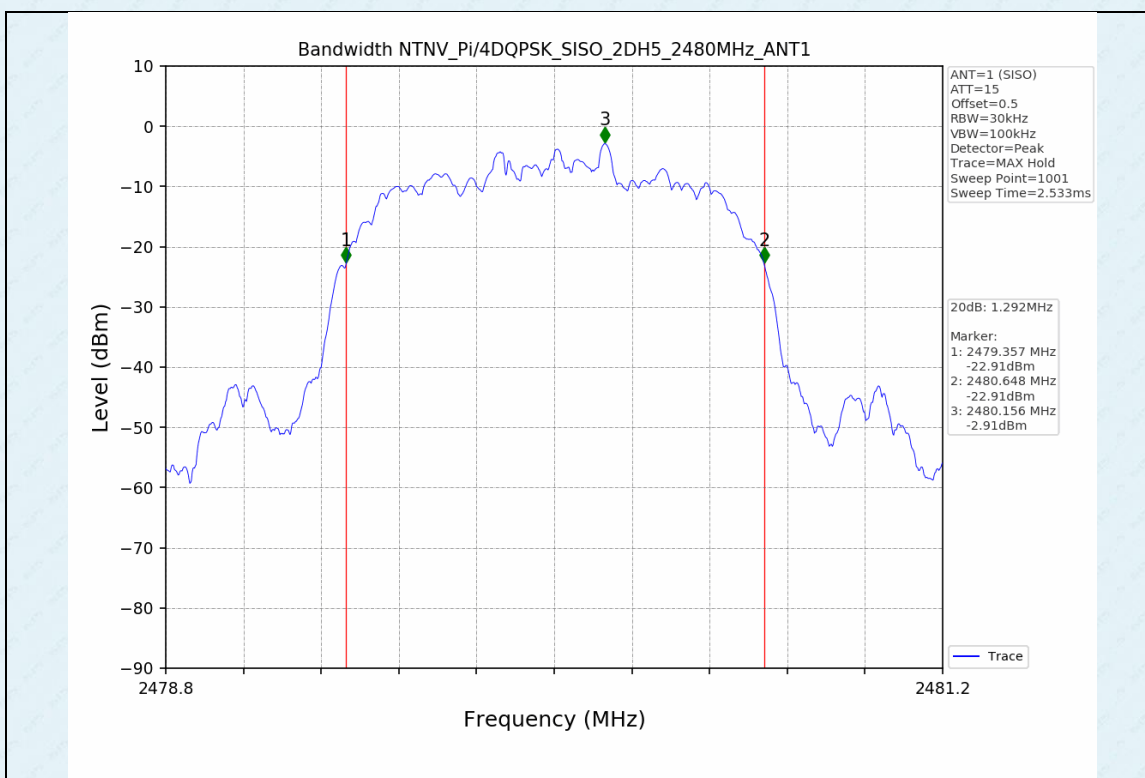
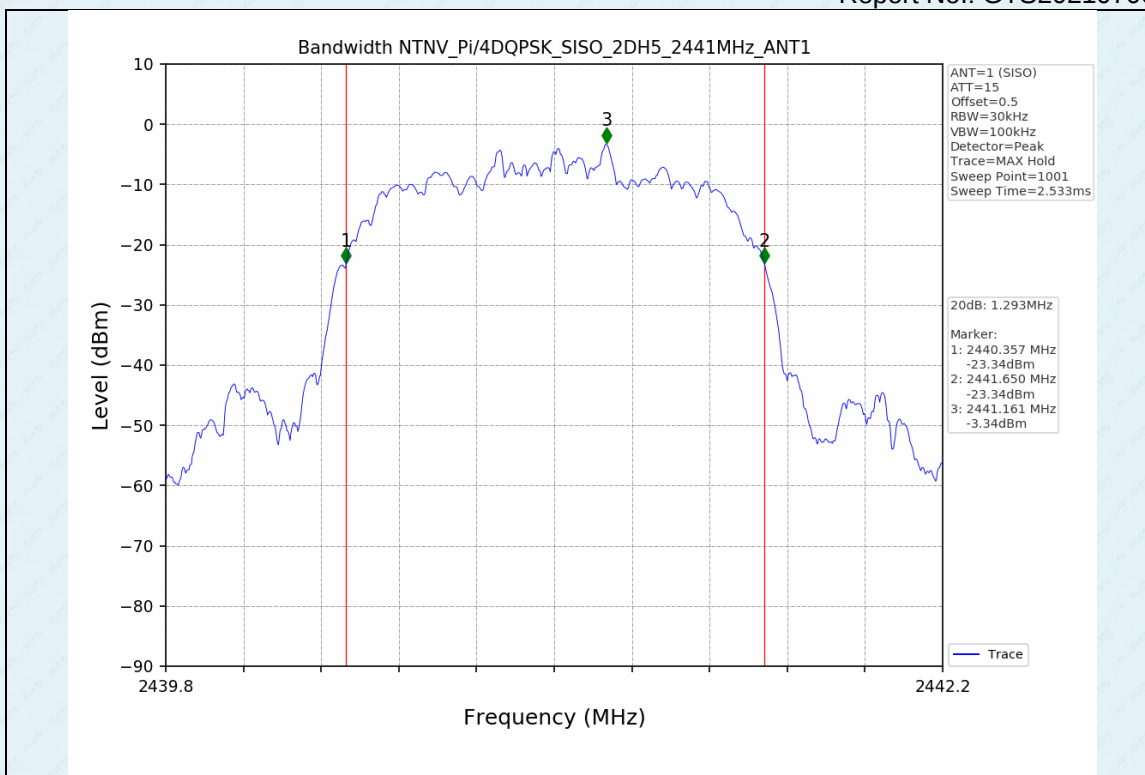
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.965	PASS
	2441	SISO	1	0.962	PASS
	2480	SISO	1	0.964	PASS
Pi/4DQPSK	2402	SISO	1	1.292	PASS
	2441	SISO	1	1.293	PASS
	2480	SISO	1	1.292	PASS
8DPSK	2402	SISO	1	1.303	PASS
	2441	SISO	1	1.298	PASS
	2480	SISO	1	1.300	PASS

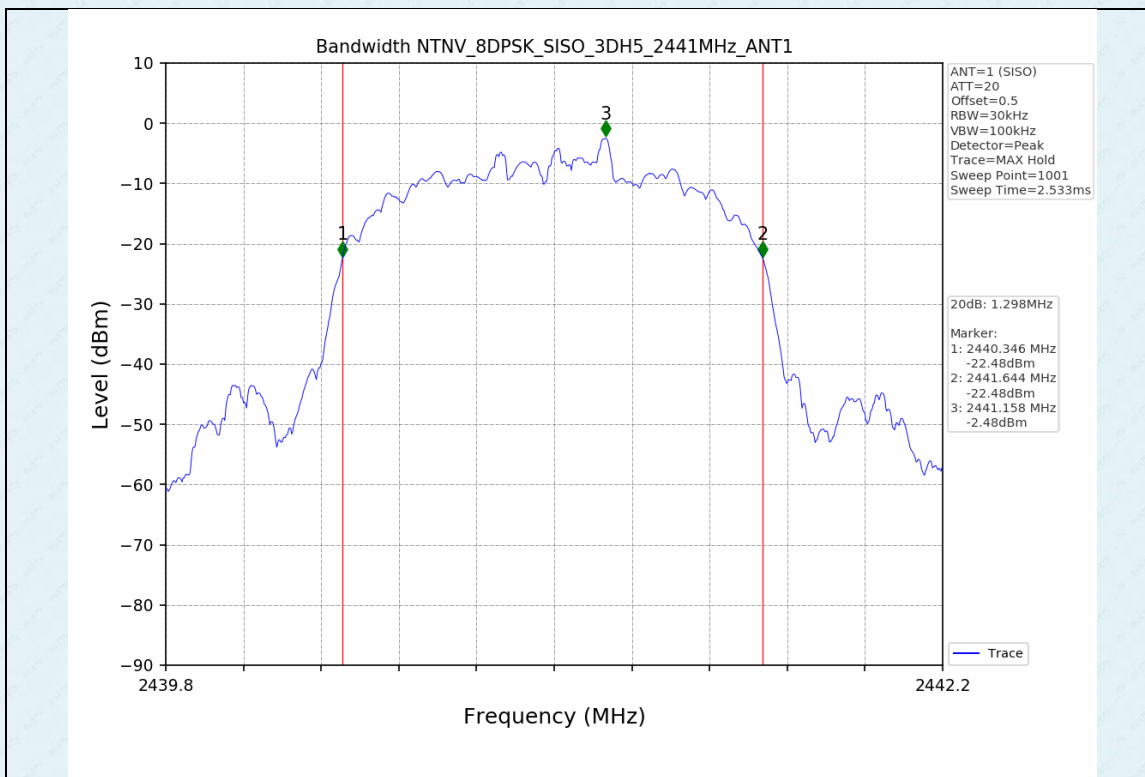
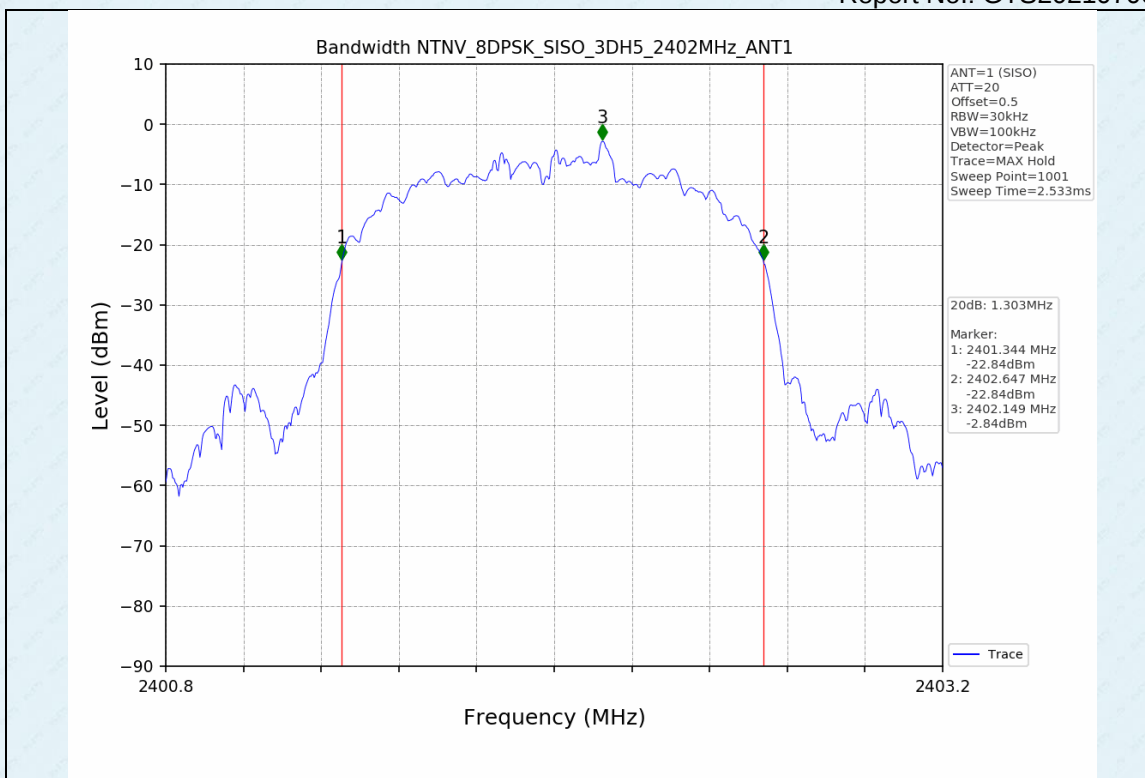
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.876	Only for Report Use
	2441	SISO	1	0.870	Only for Report Use
	2480	SISO	1	0.874	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.172	Only for Report Use
	2441	SISO	1	1.173	Only for Report Use
	2480	SISO	1	1.177	Only for Report Use
8DPSK	2402	SISO	1	1.177	Only for Report Use
	2441	SISO	1	1.177	Only for Report Use
	2480	SISO	1	1.177	Only for Report Use

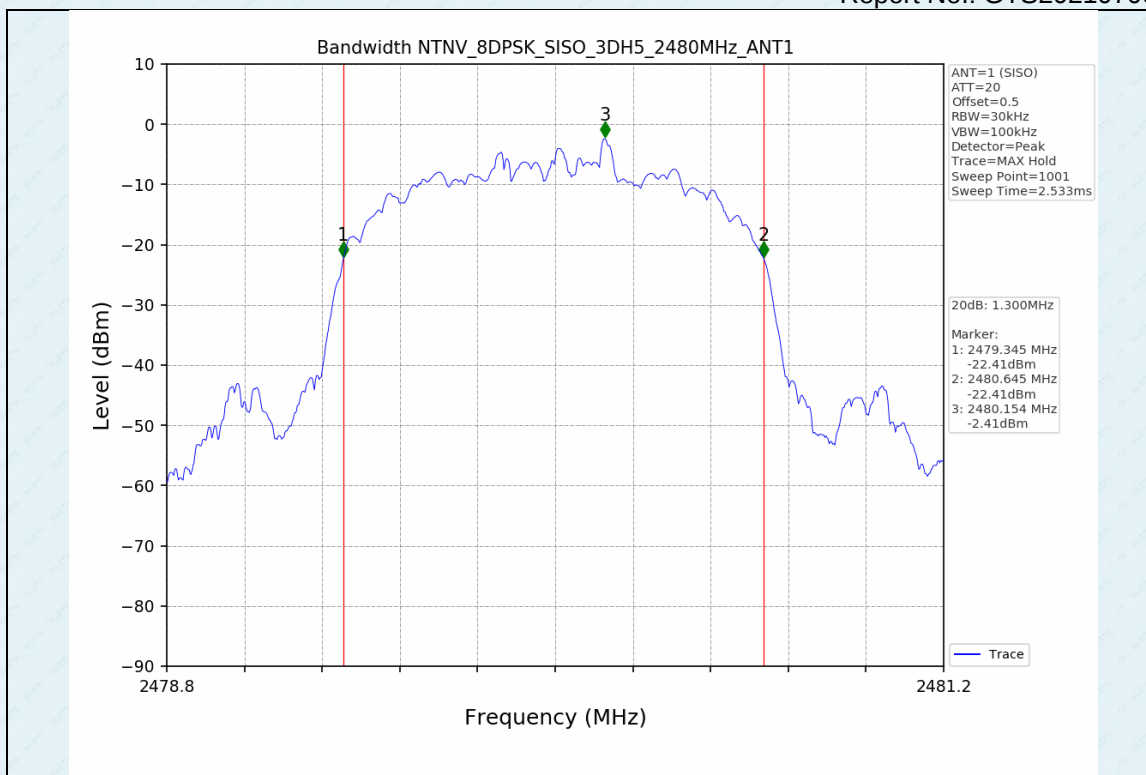
1.2 Test Graph - 20dB Bandwidth



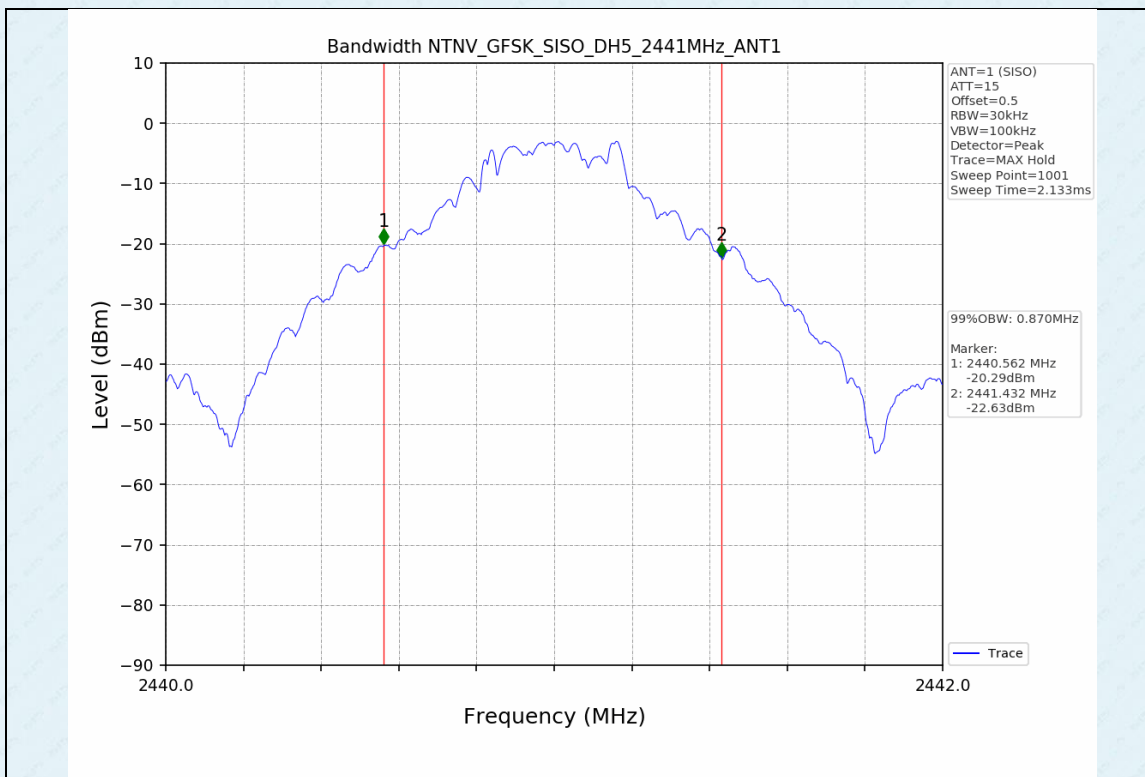
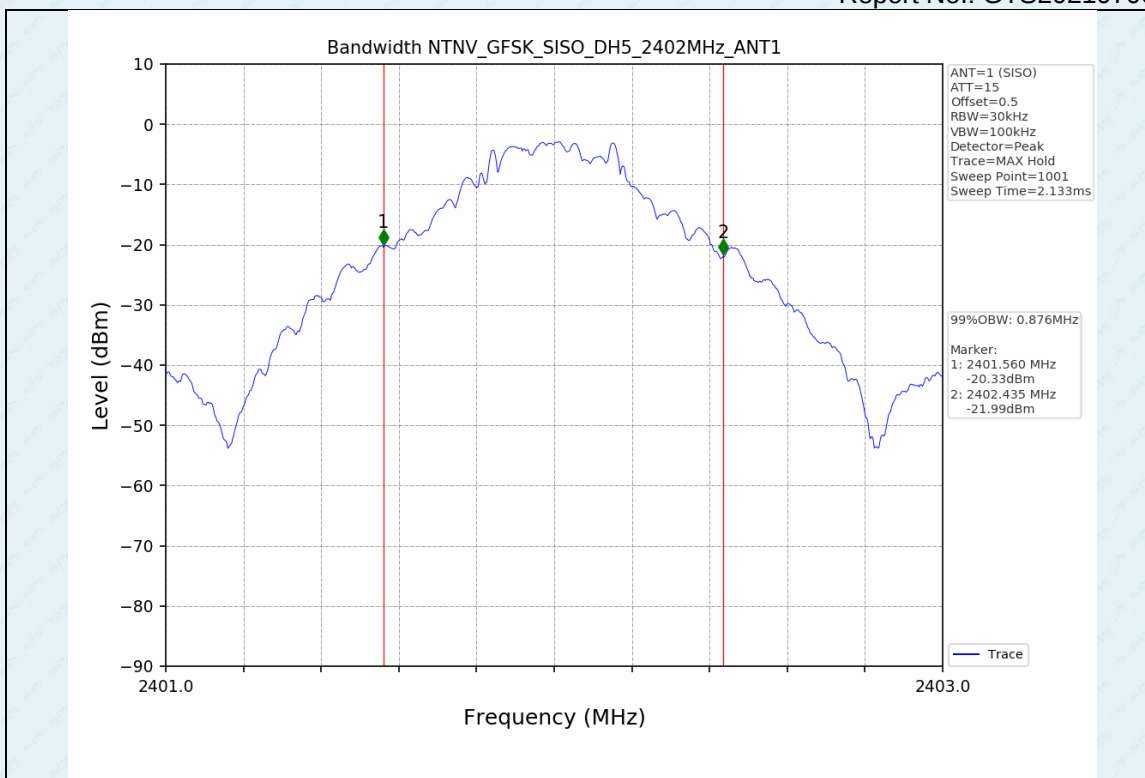


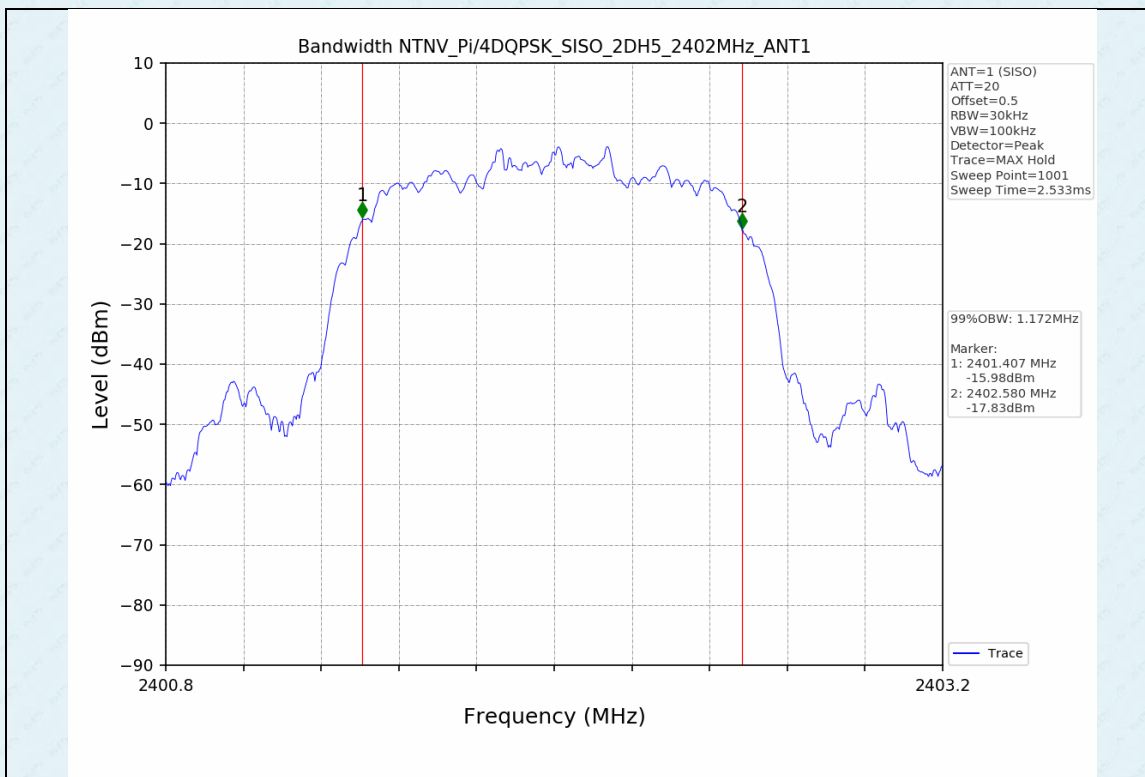
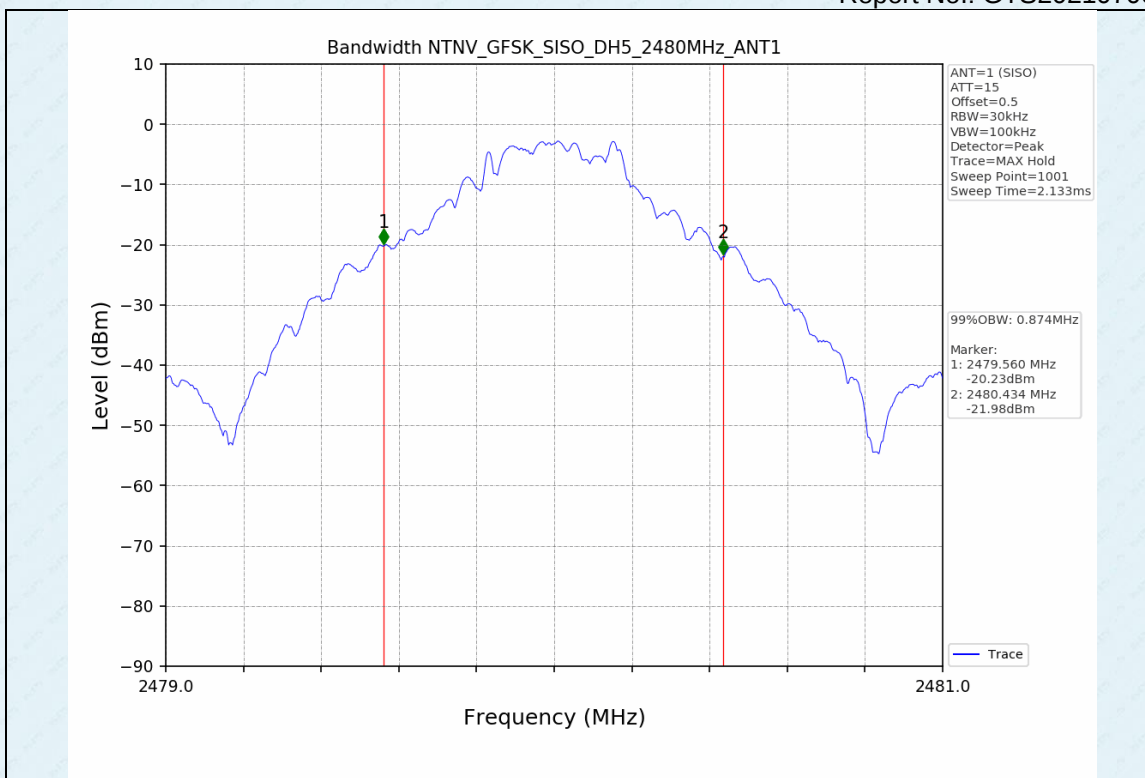


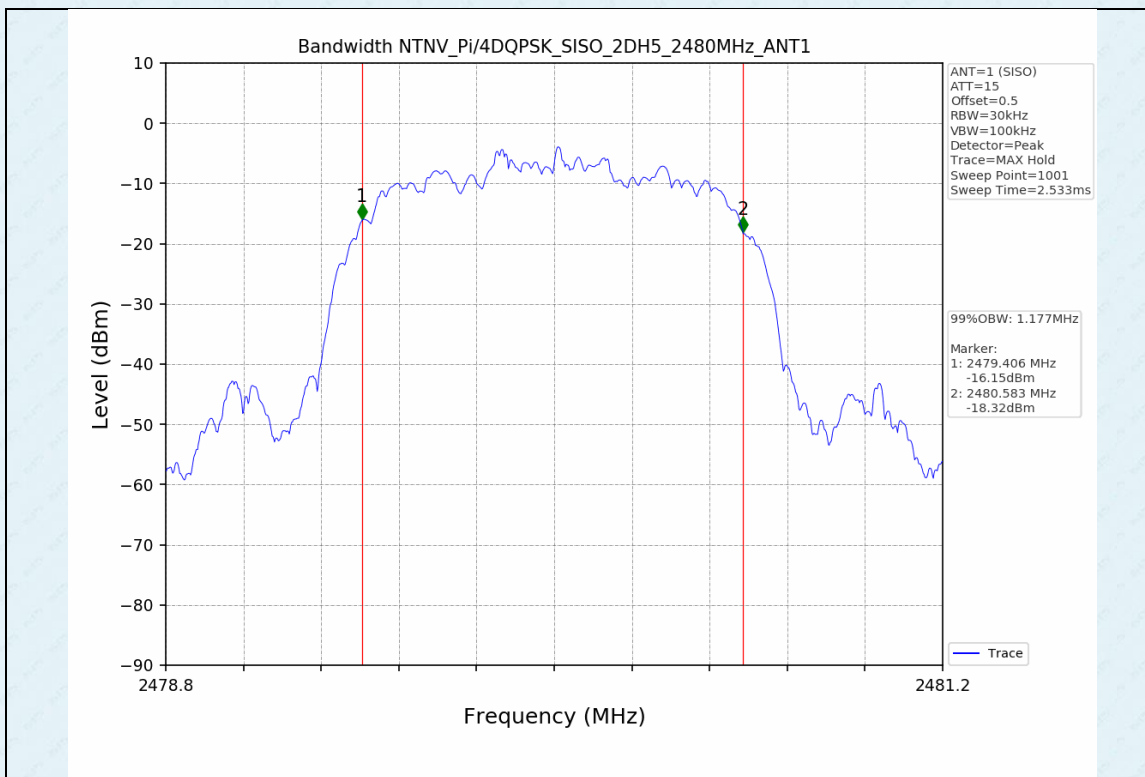
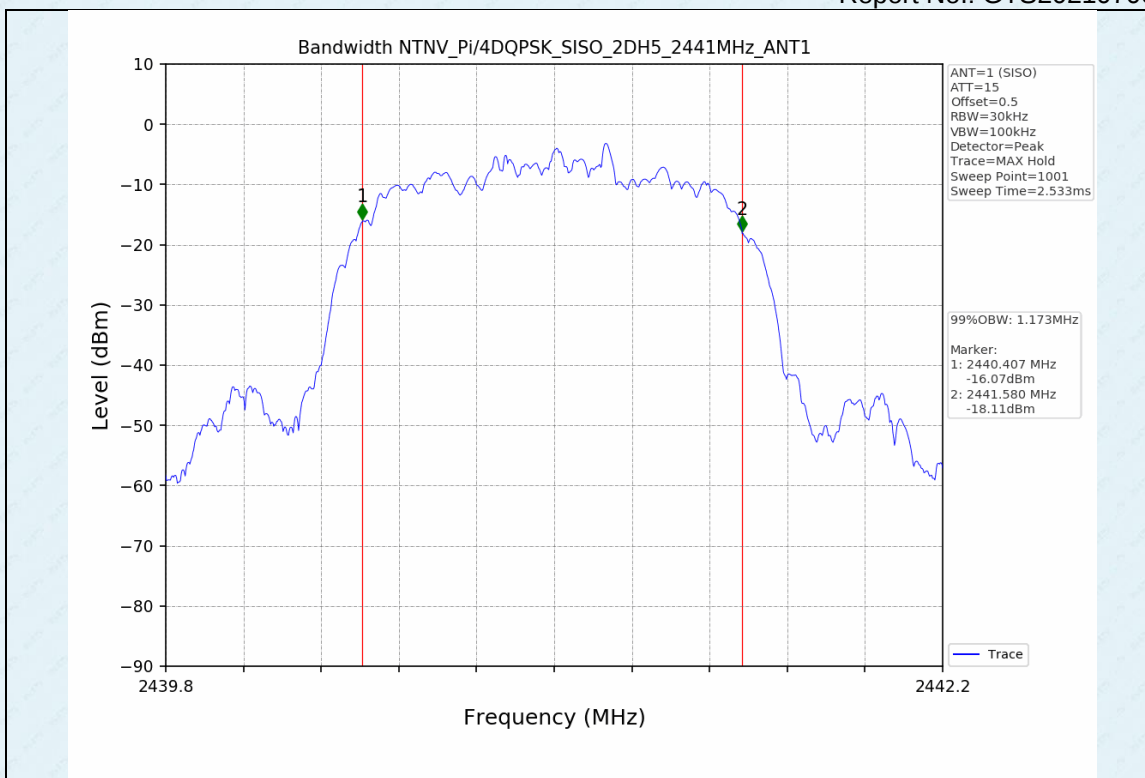


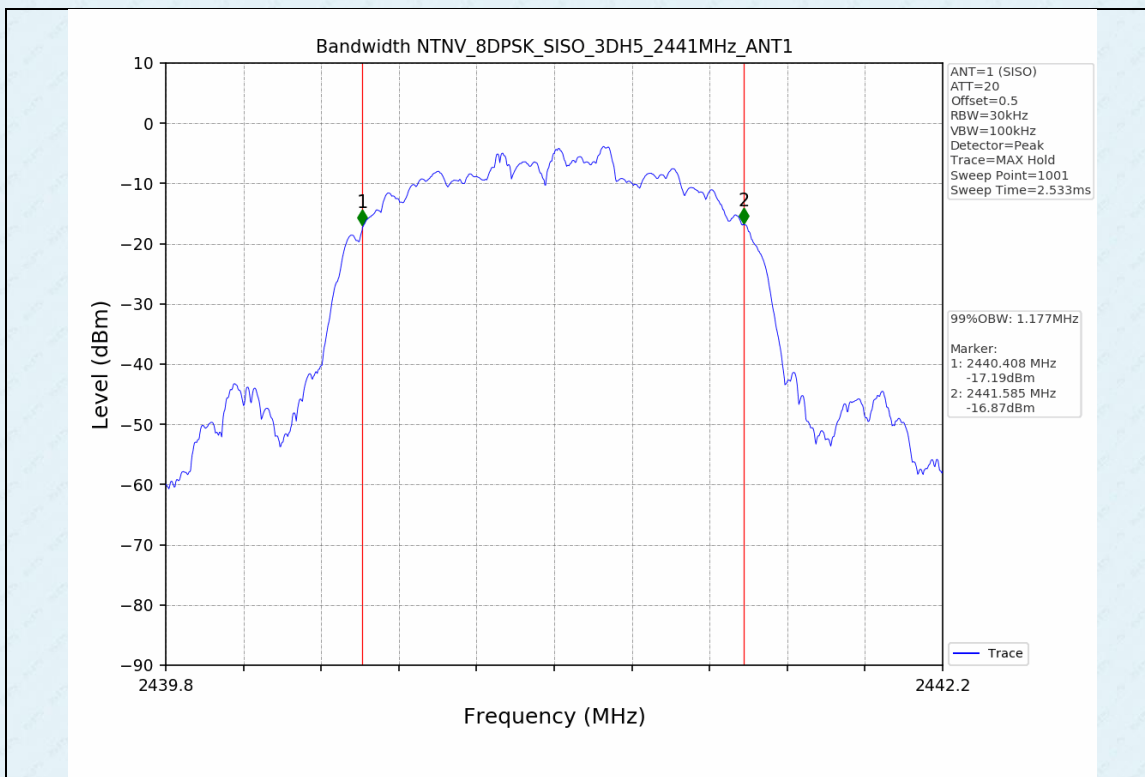
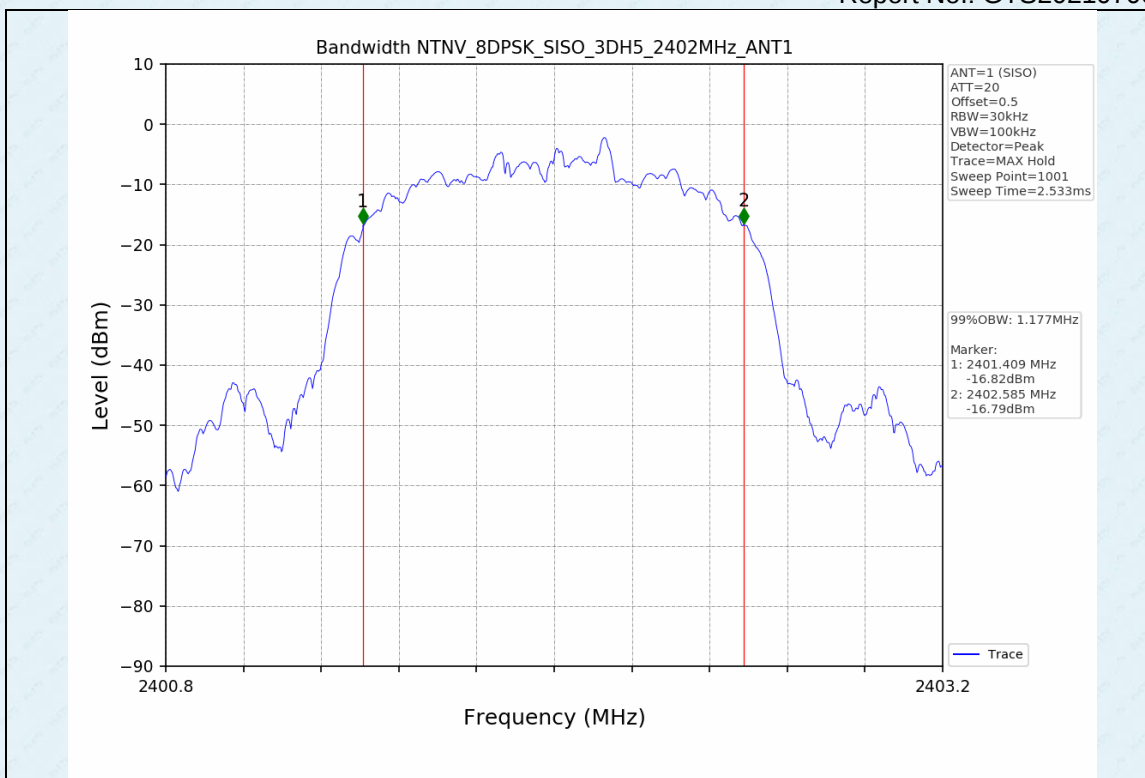


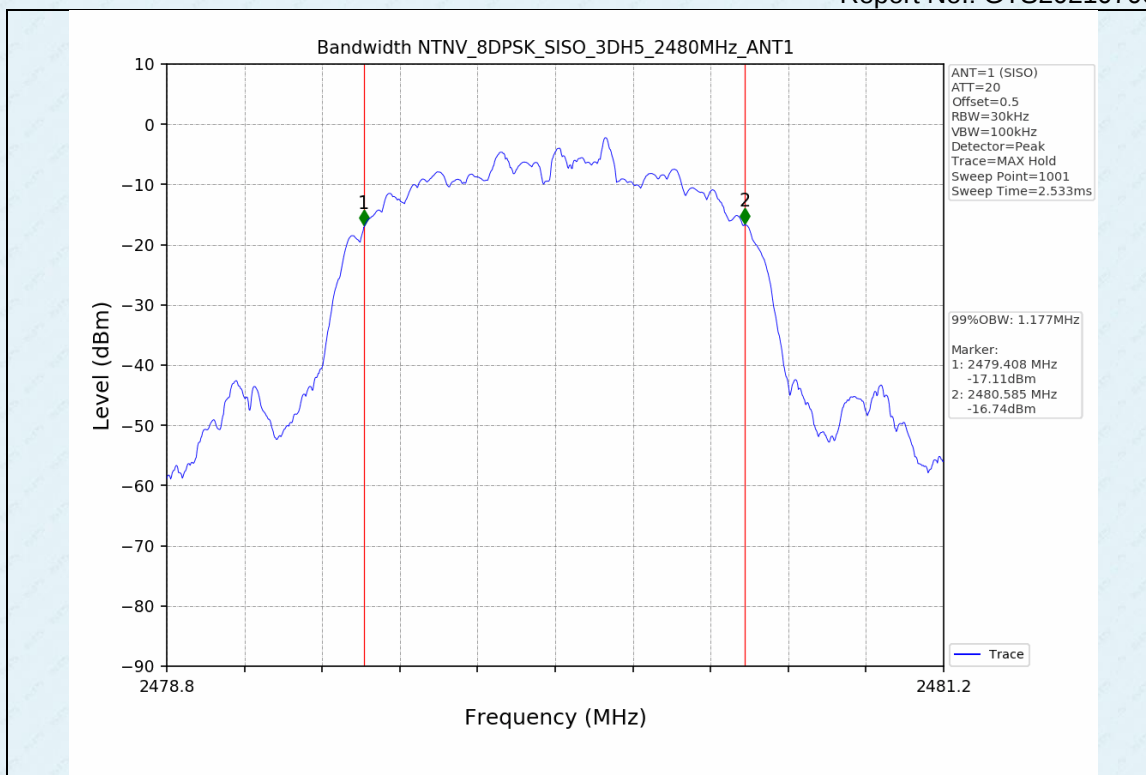
1.3 Test Graph - 99% Occupied Bandwidth









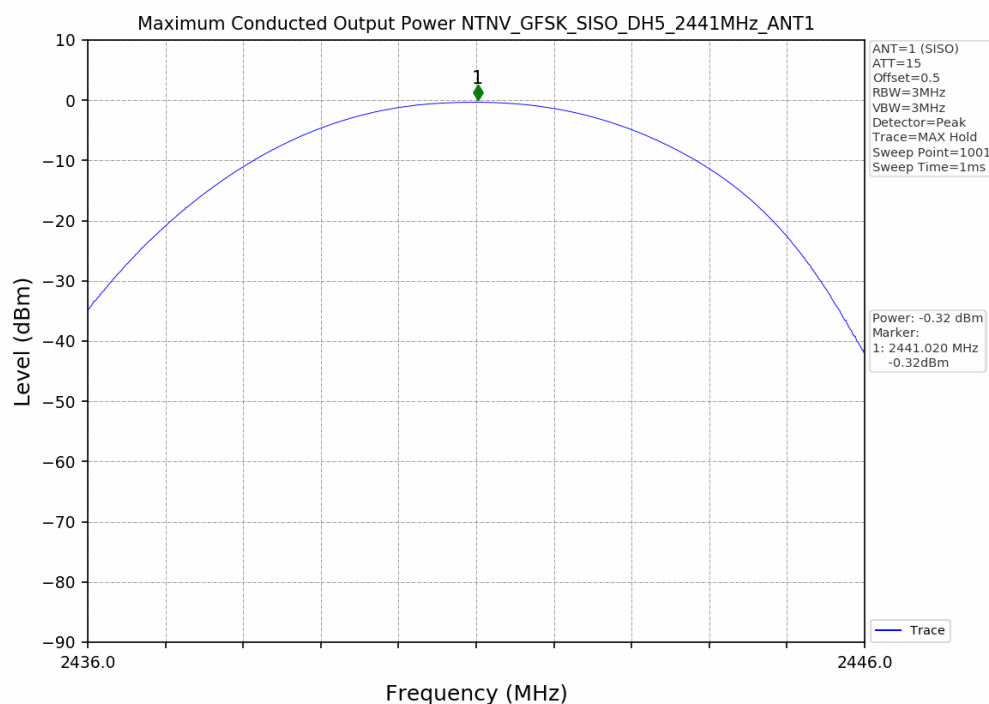
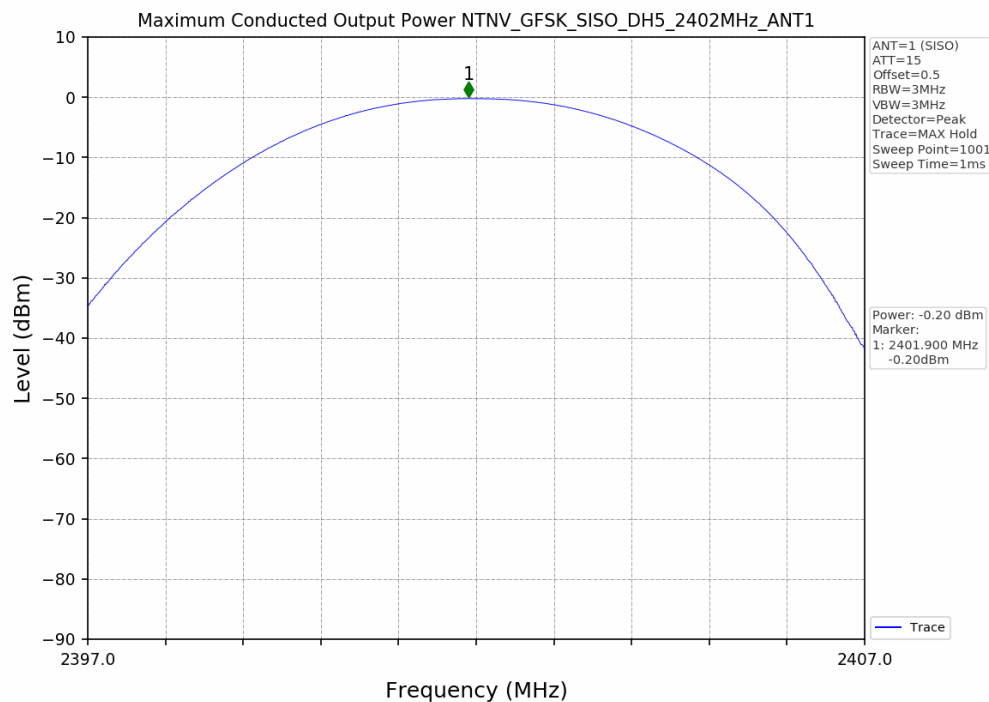


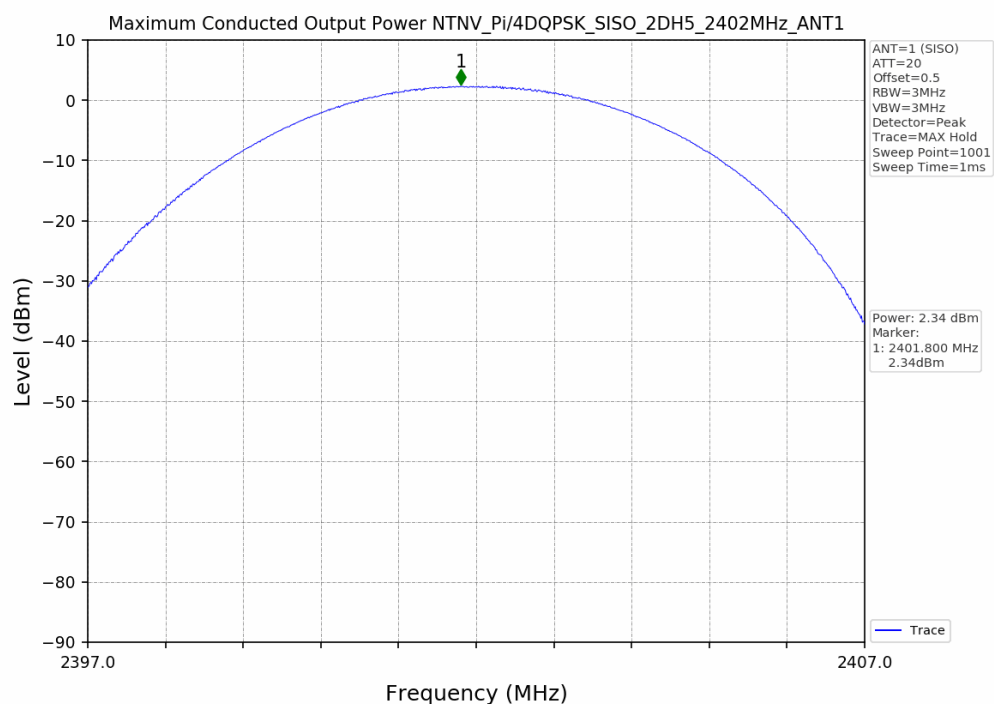
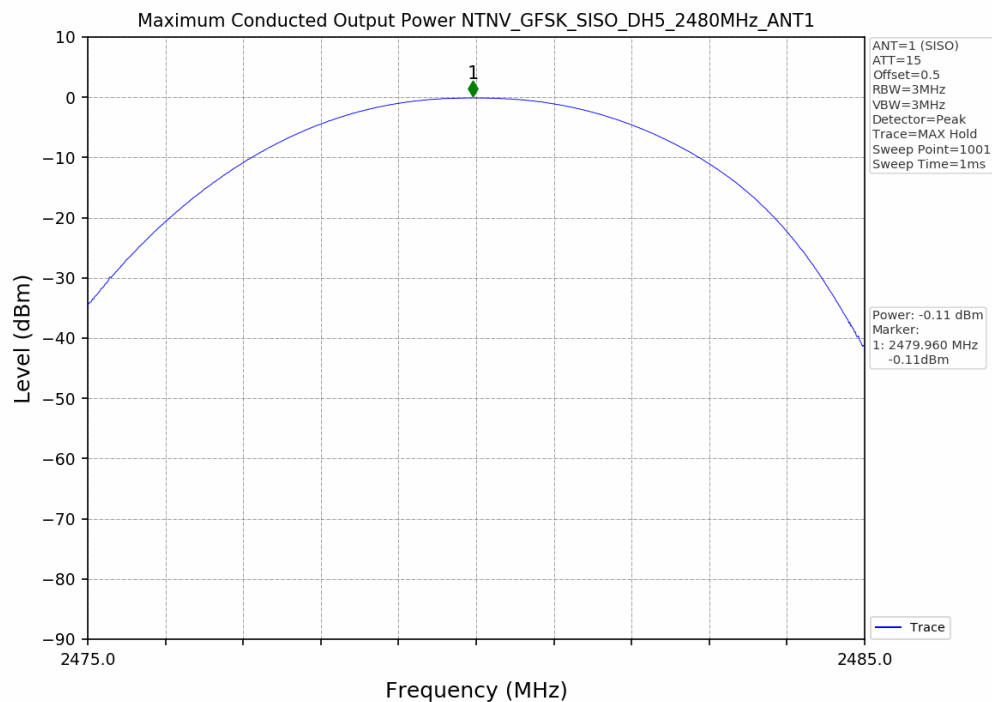
2. Maximum Conducted Output Power

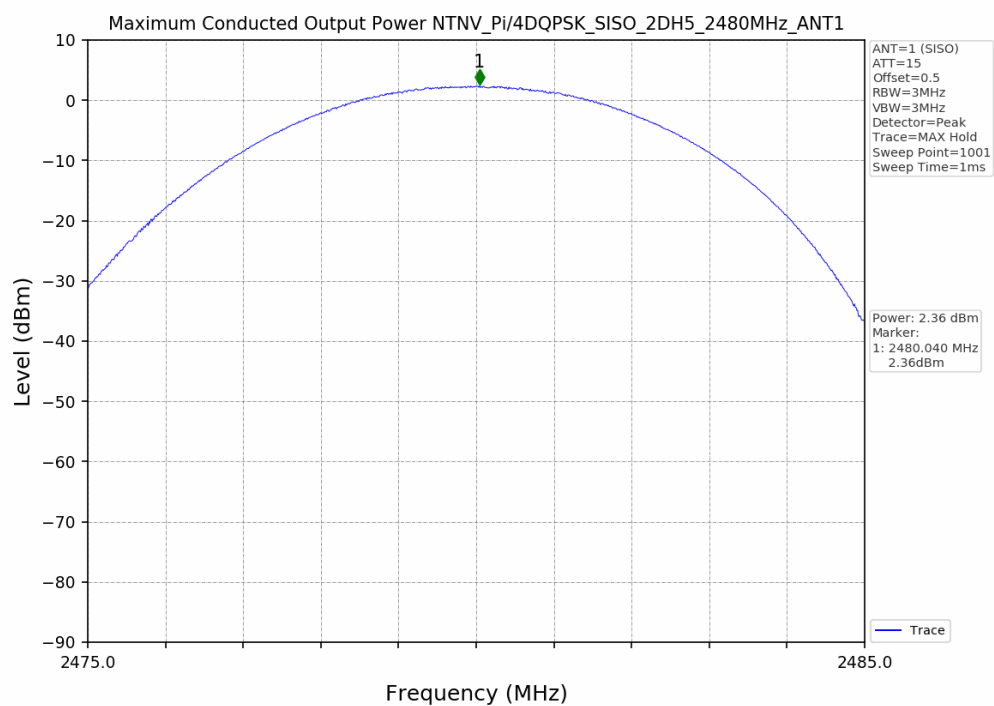
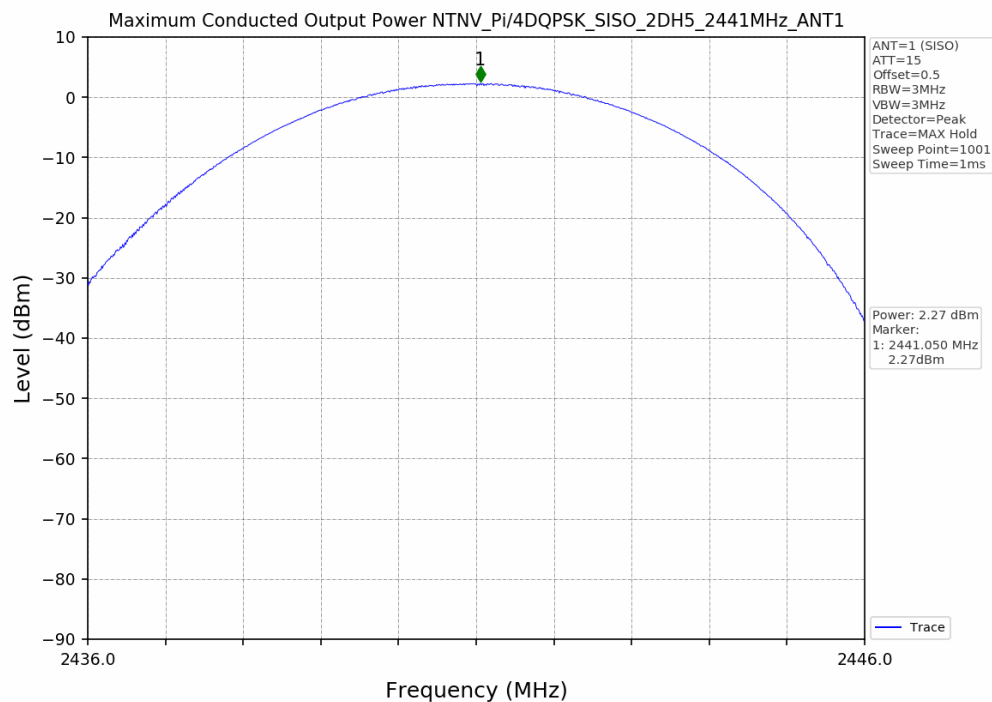
2.1 Test Result

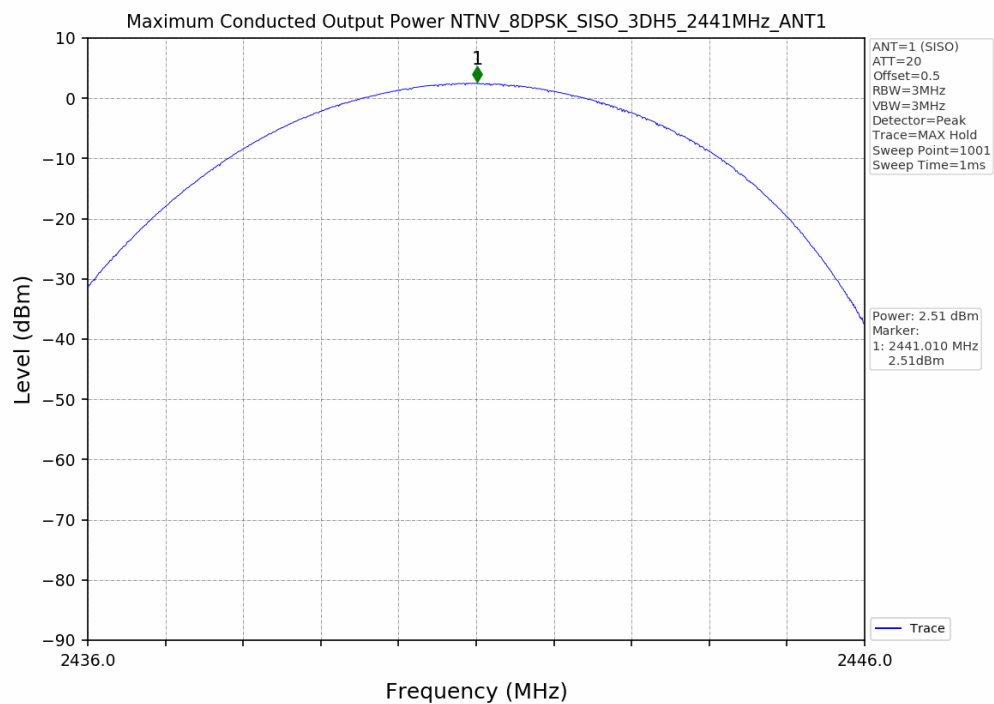
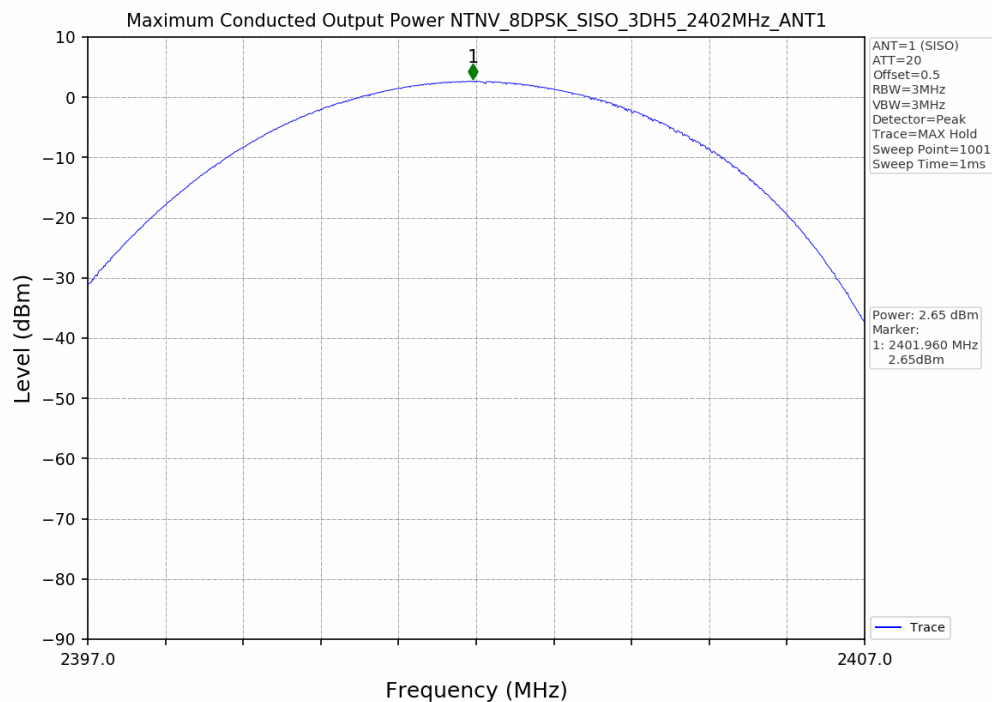
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	EIRP (dBm)	EIRP Limits (dBm)	Verdict
GFSK	2402	SISO	-0.20	30	5.6	36	PASS
	2441	SISO	-0.32	30	5.48	36	PASS
	2480	SISO	-0.11	30	5.69	36	PASS
Pi/4DQPSK	2402	SISO	2.34	20.97	8.14	36	PASS
	2441	SISO	2.27	20.97	8.07	36	PASS
	2480	SISO	2.36	20.97	8.16	36	PASS
8DPSK	2402	SISO	2.65	20.97	8.45	36	PASS
	2441	SISO	2.51	20.97	8.31	36	PASS
	2480	SISO	2.60	20.97	8.4	36	PASS

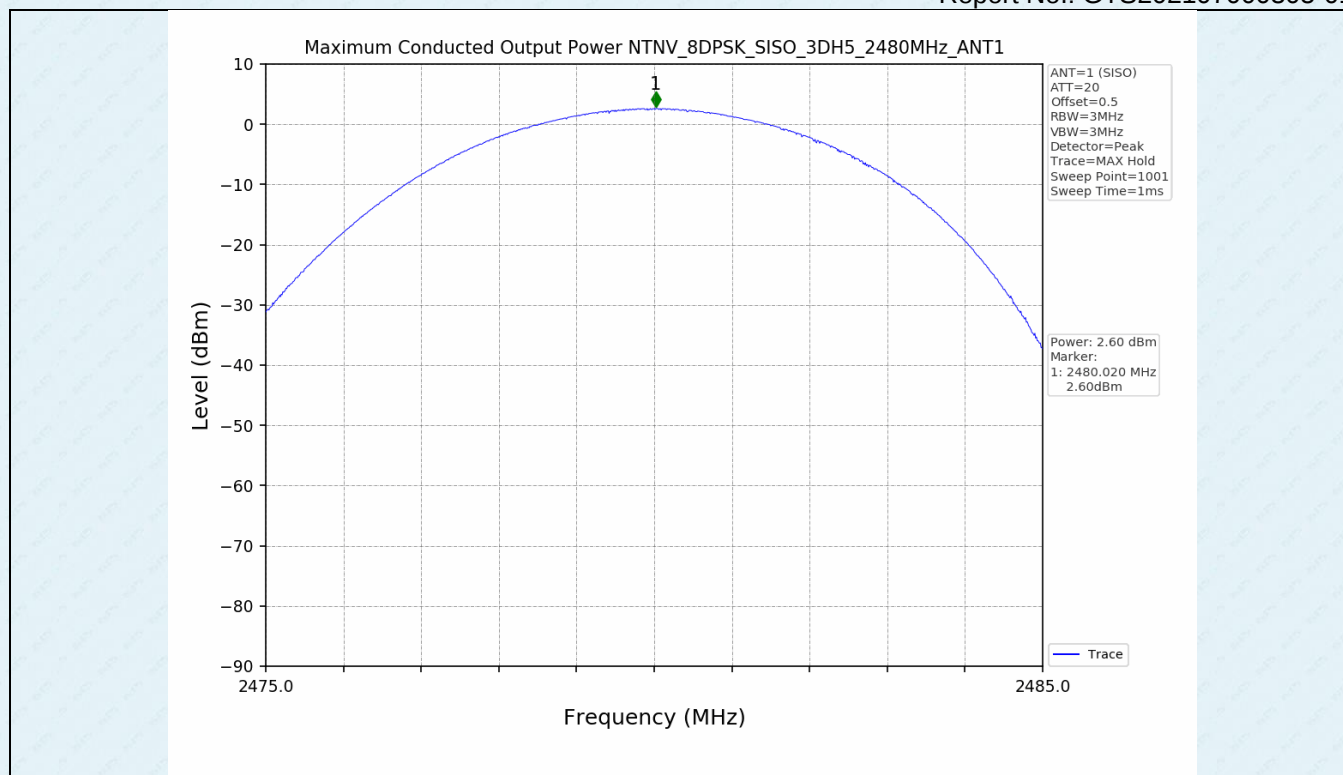
2.2 Test Graph









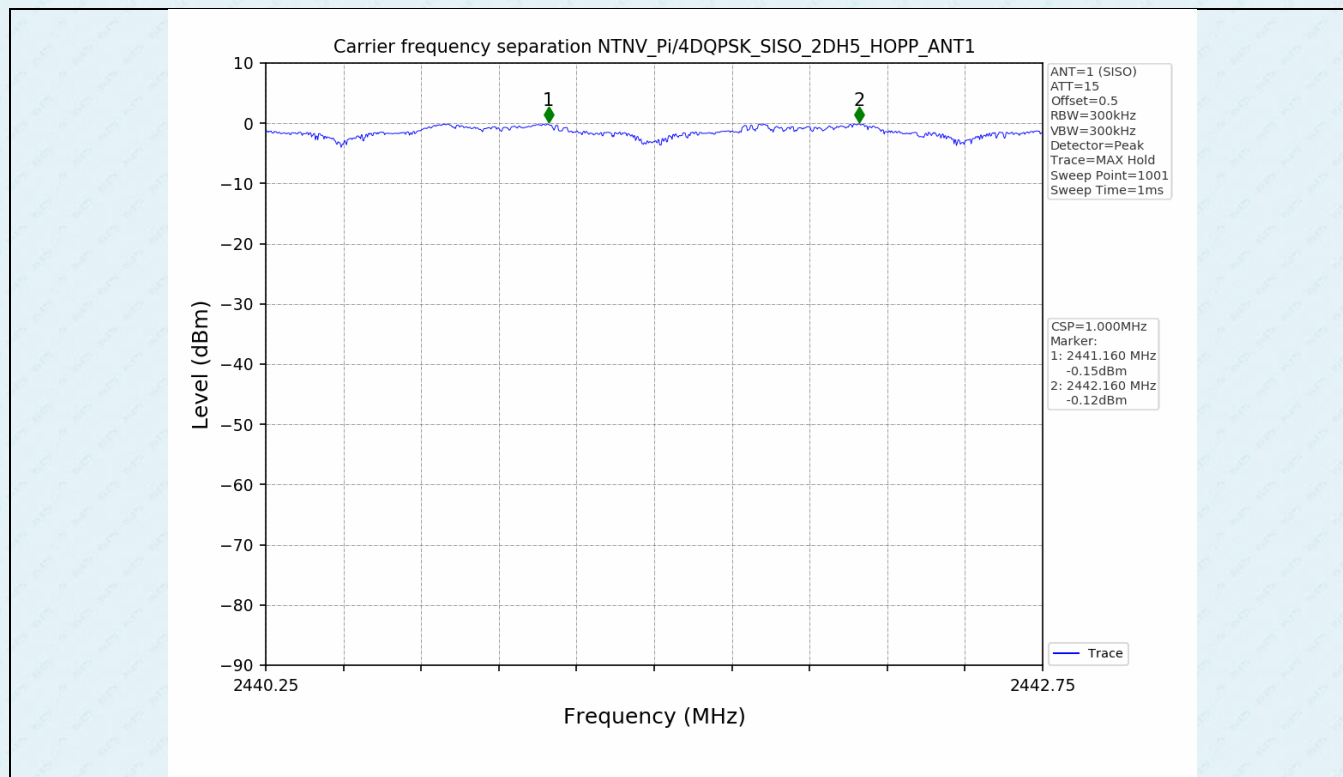
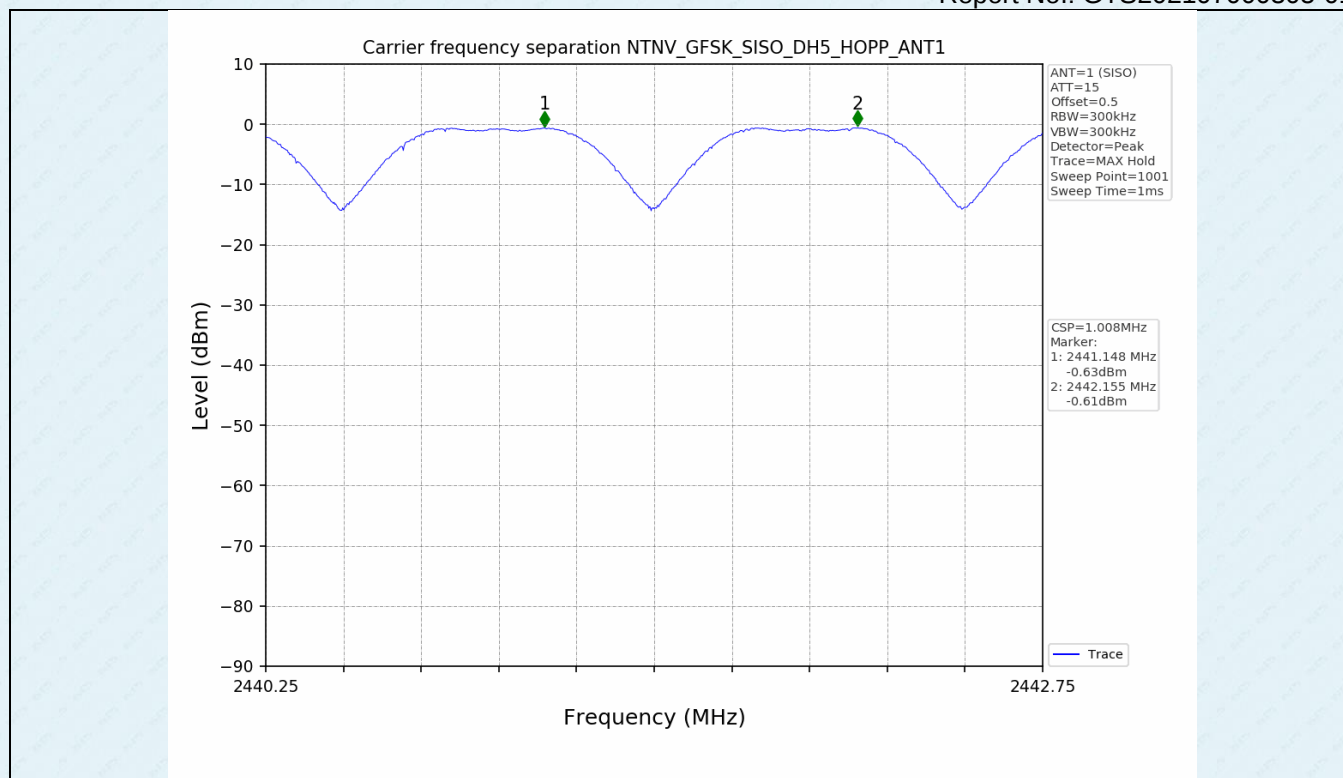


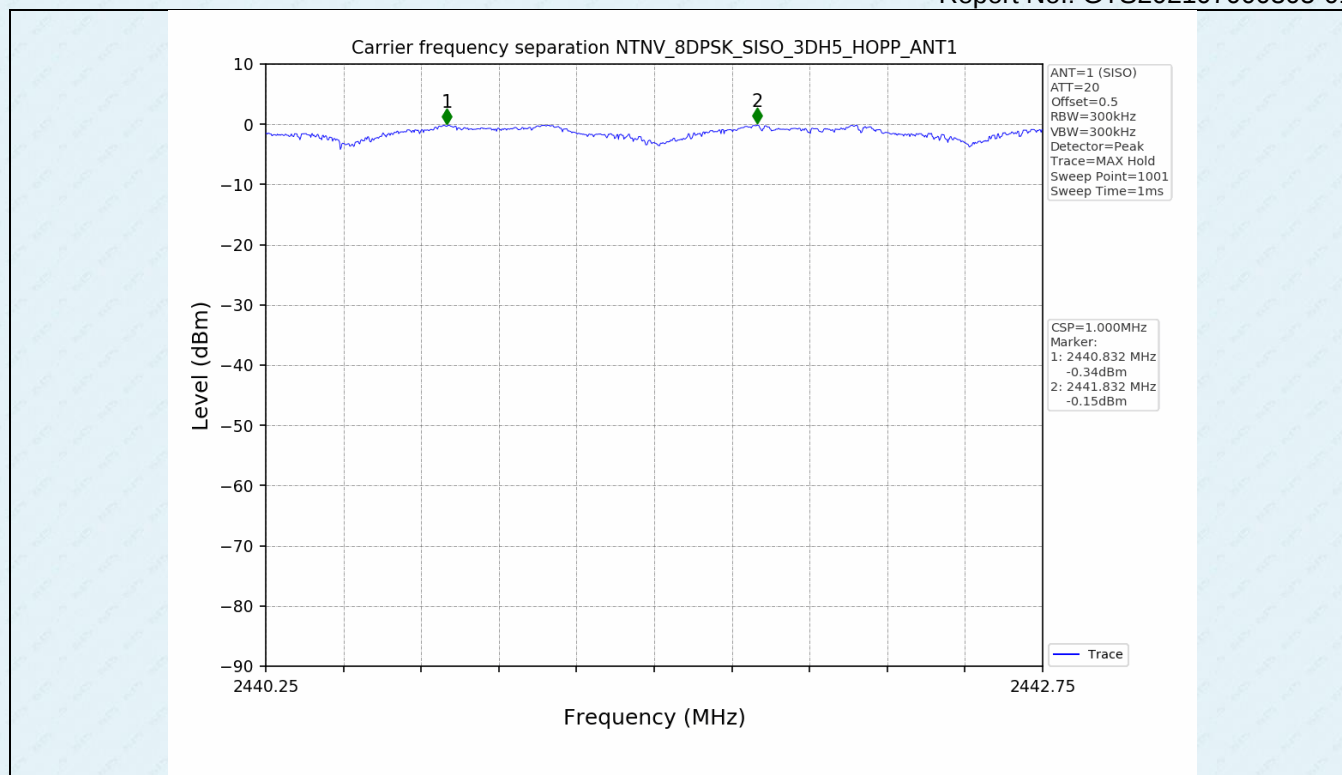
3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.008	0.965	≥ 0.965	PASS
Pi/4DQPSK	SISO	1	1.000	1.293	≥ 0.862	PASS
8DPSK	SISO	1	1.000	1.303	≥ 0.869	PASS

3.2 Test Graph



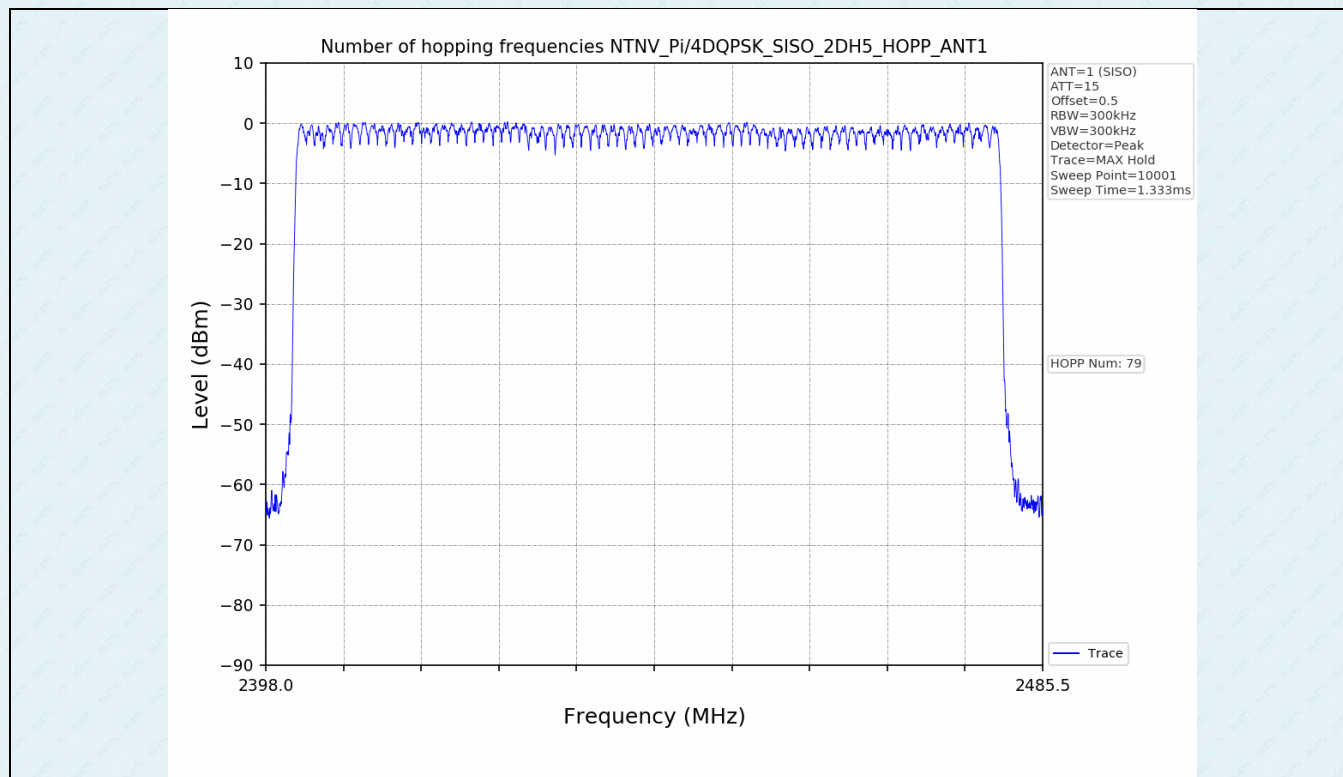
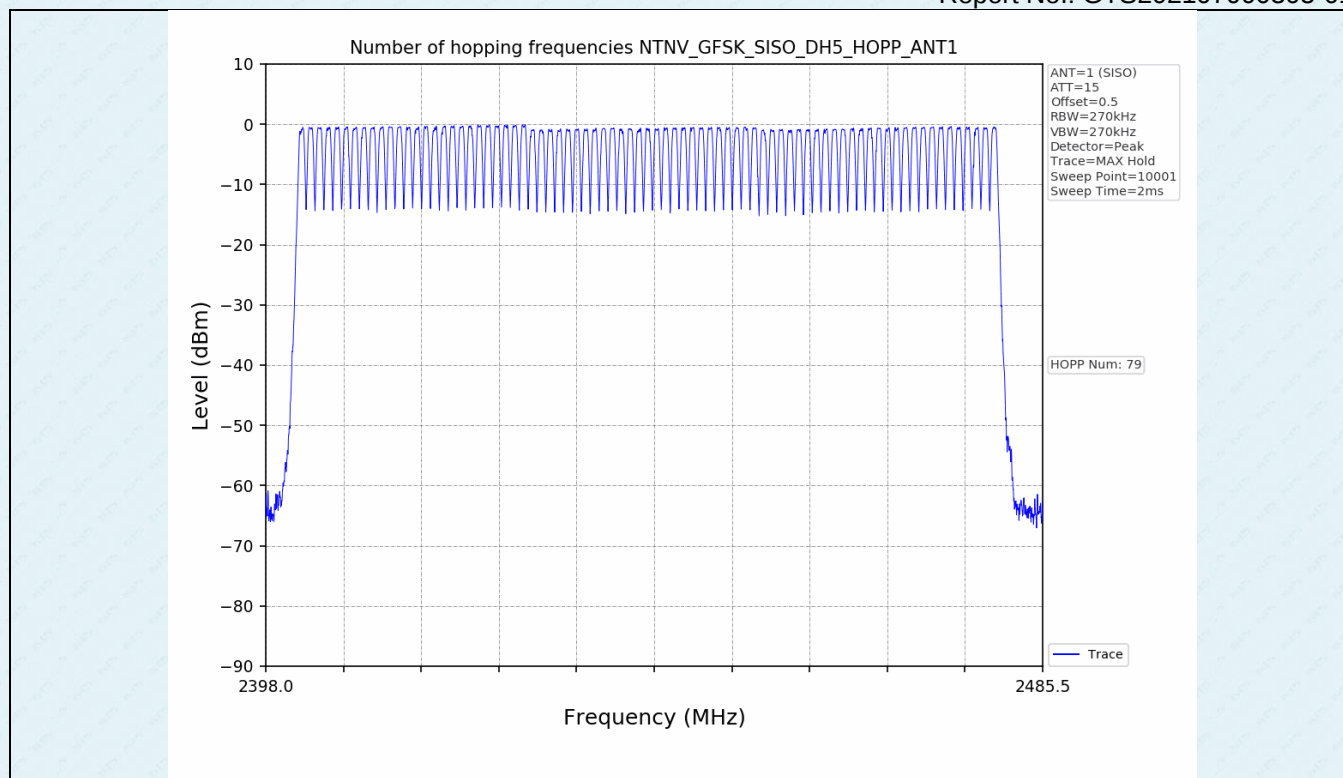


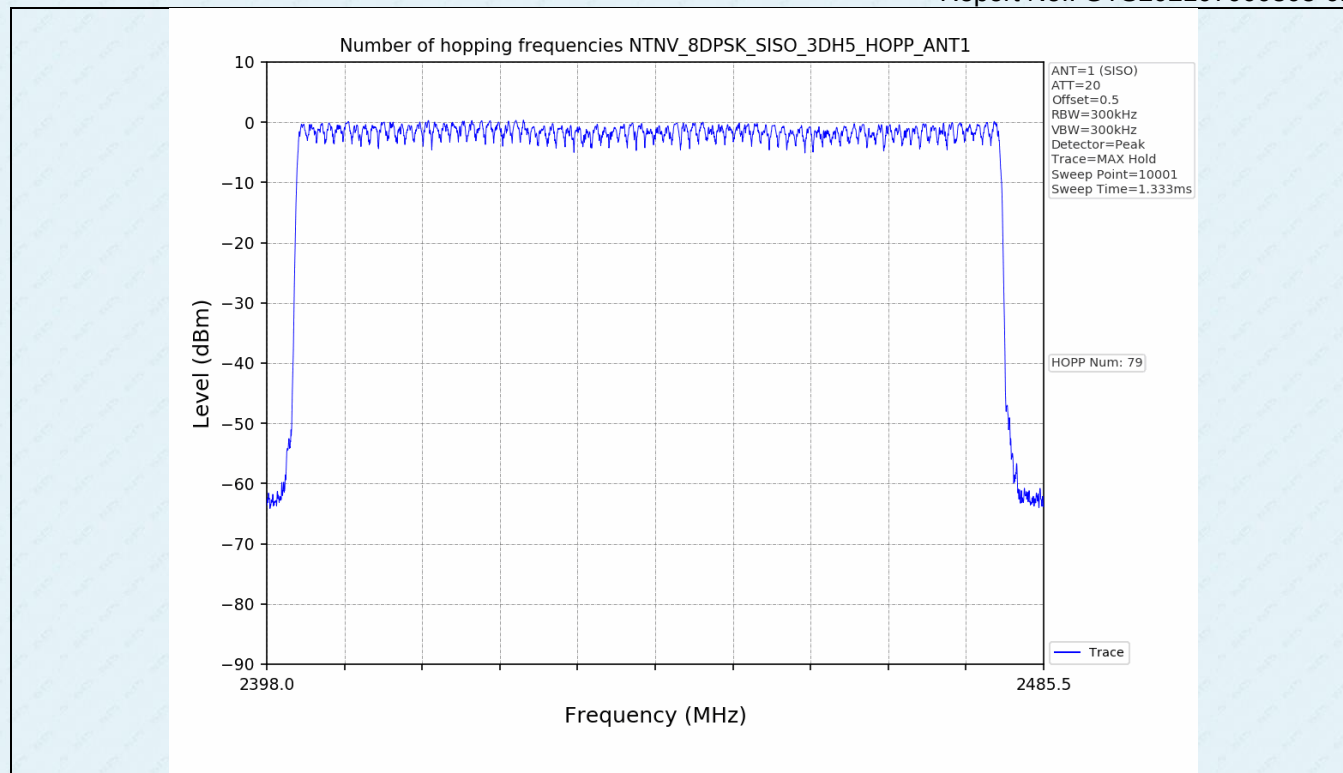
4. Number of hopping frequencies

4.1 Test Result

Test Mode	TX Type	ANT No.	Num of Hopping Frequencies	Limits	Verdict
GFSK	SISO	1	79	≥ 15	PASS
PI/4DQPSK	SISO	1	79	≥ 15	PASS
8DPSK	SISO	1	79	≥ 15	PASS

4.2 Test Graph



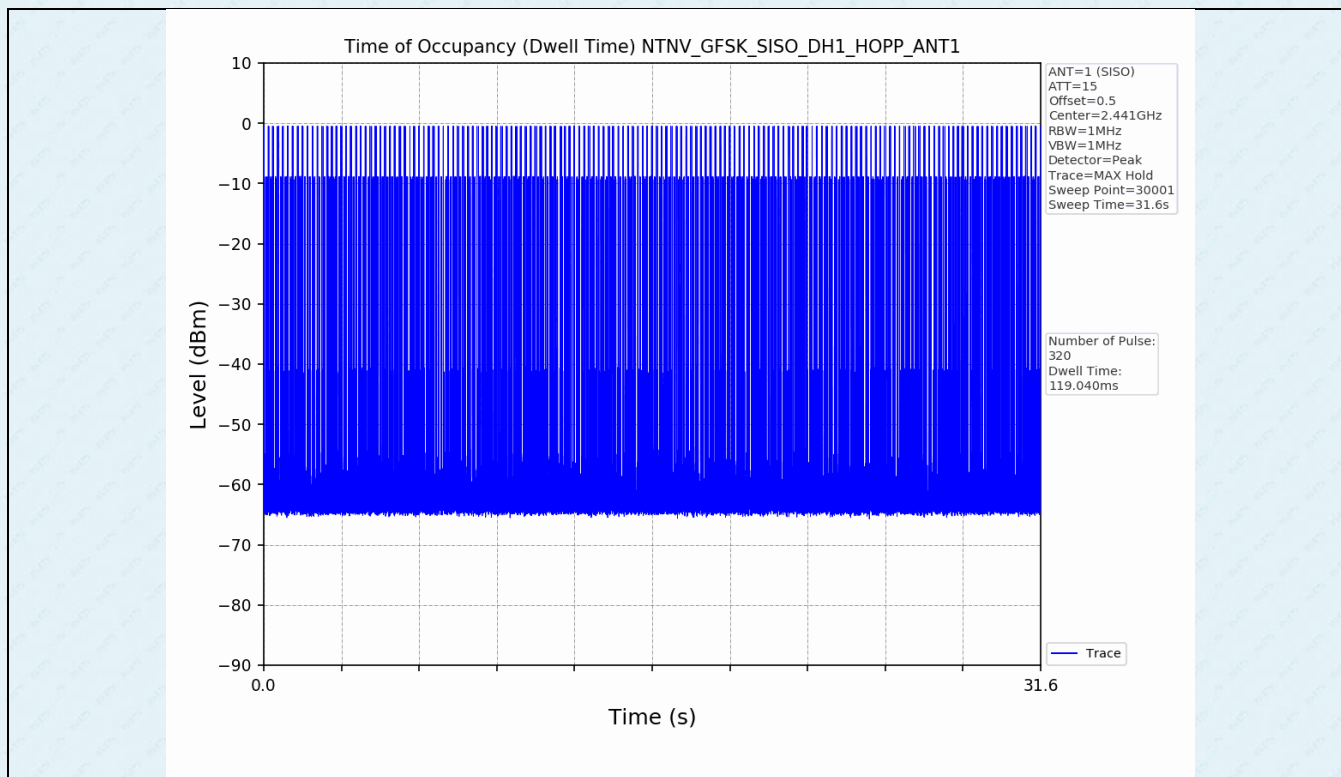
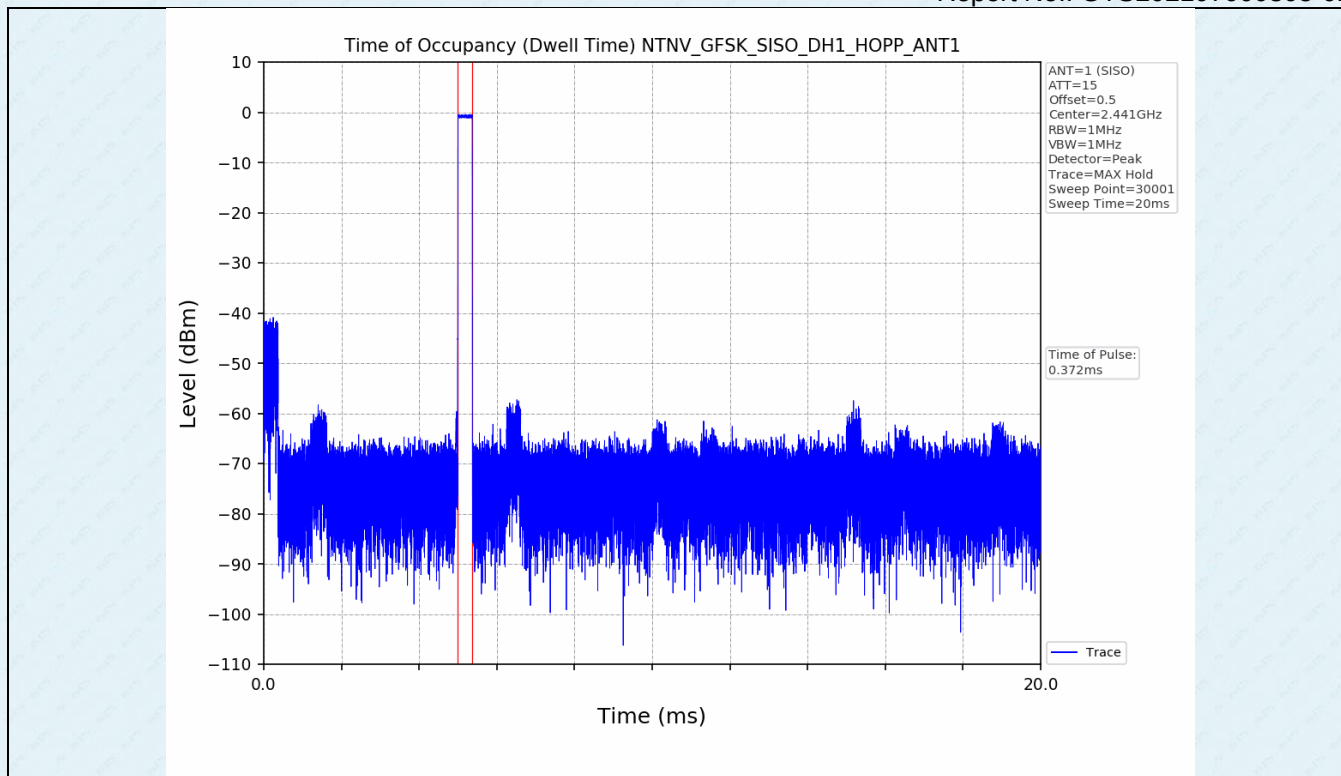


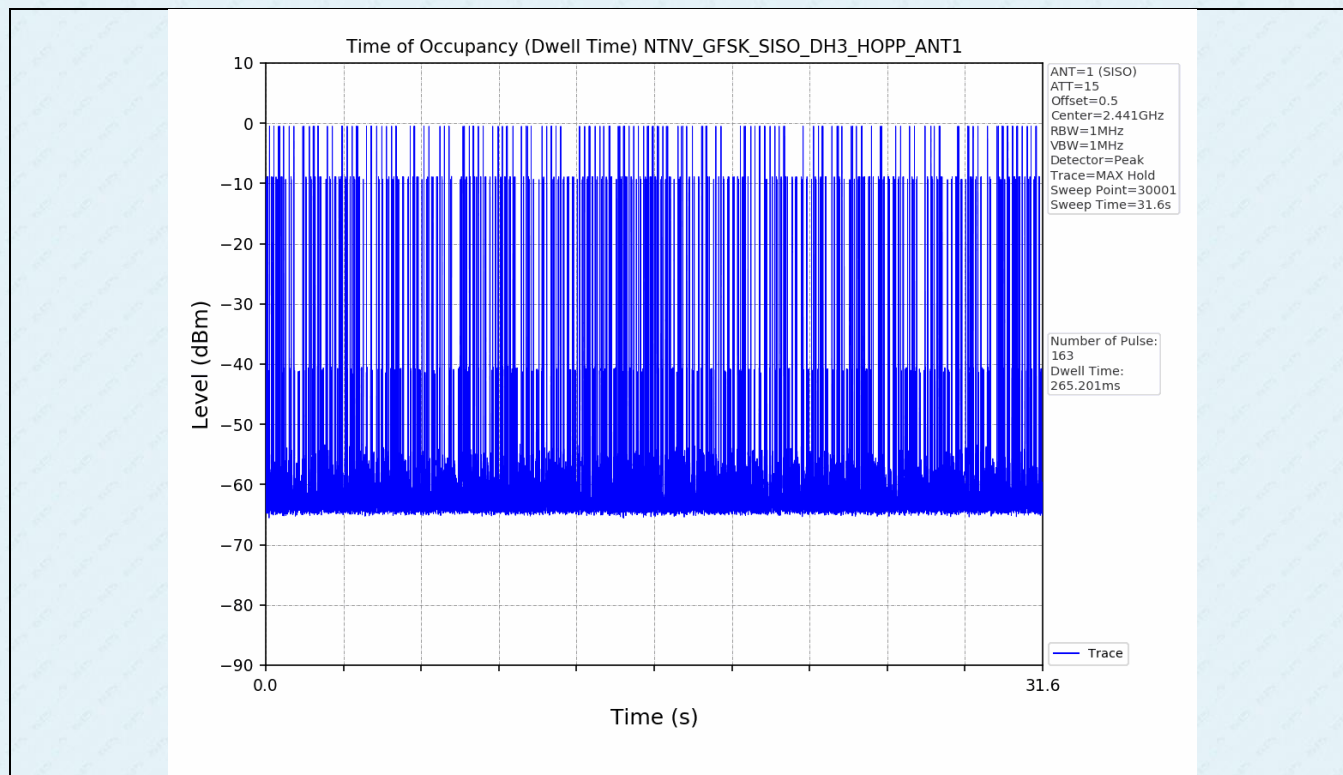
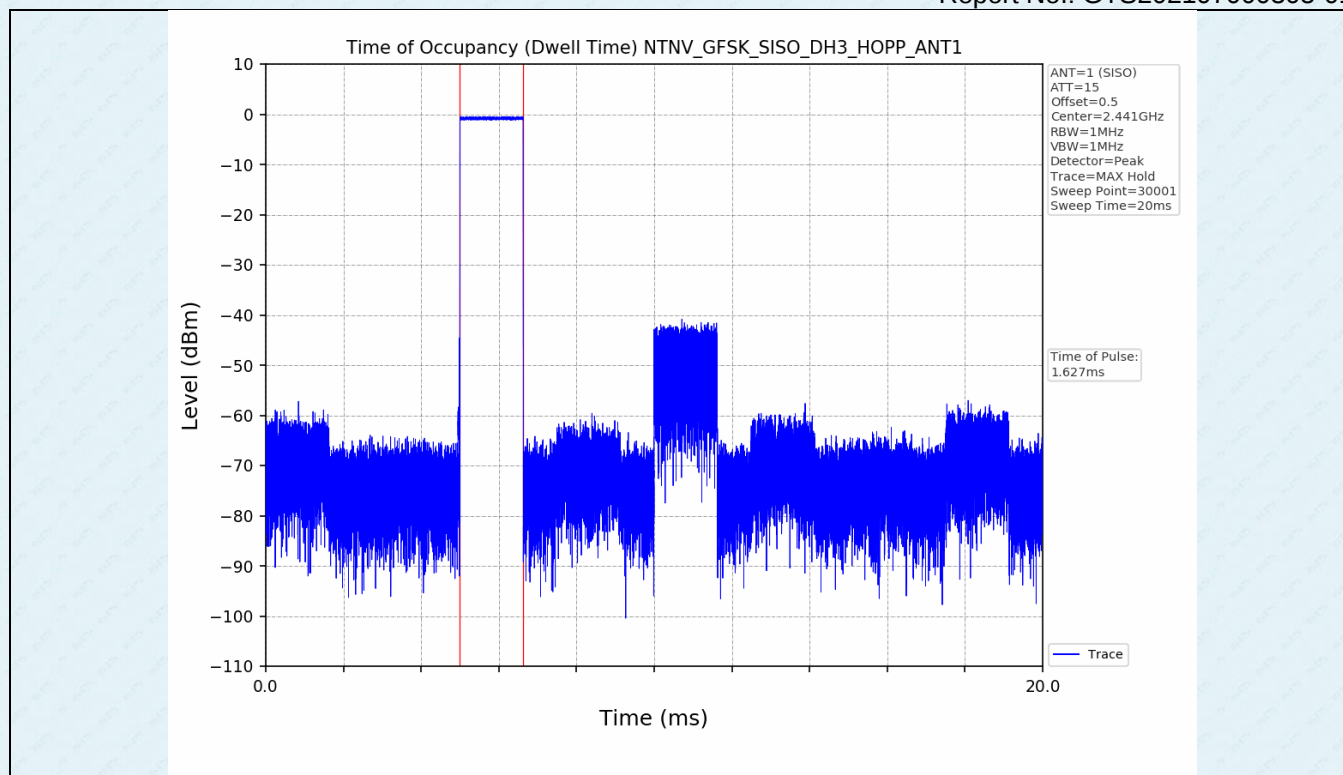
5. Time of Occupancy (Dwell Time)

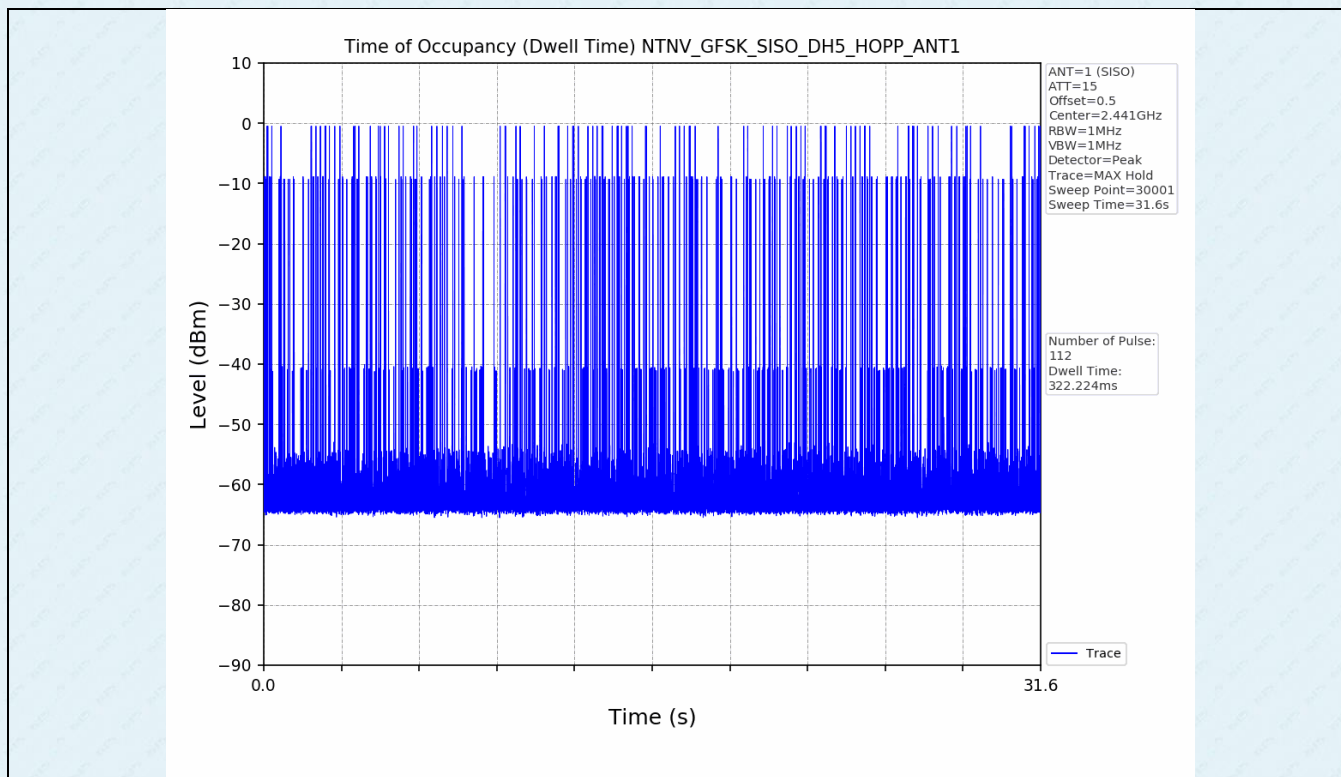
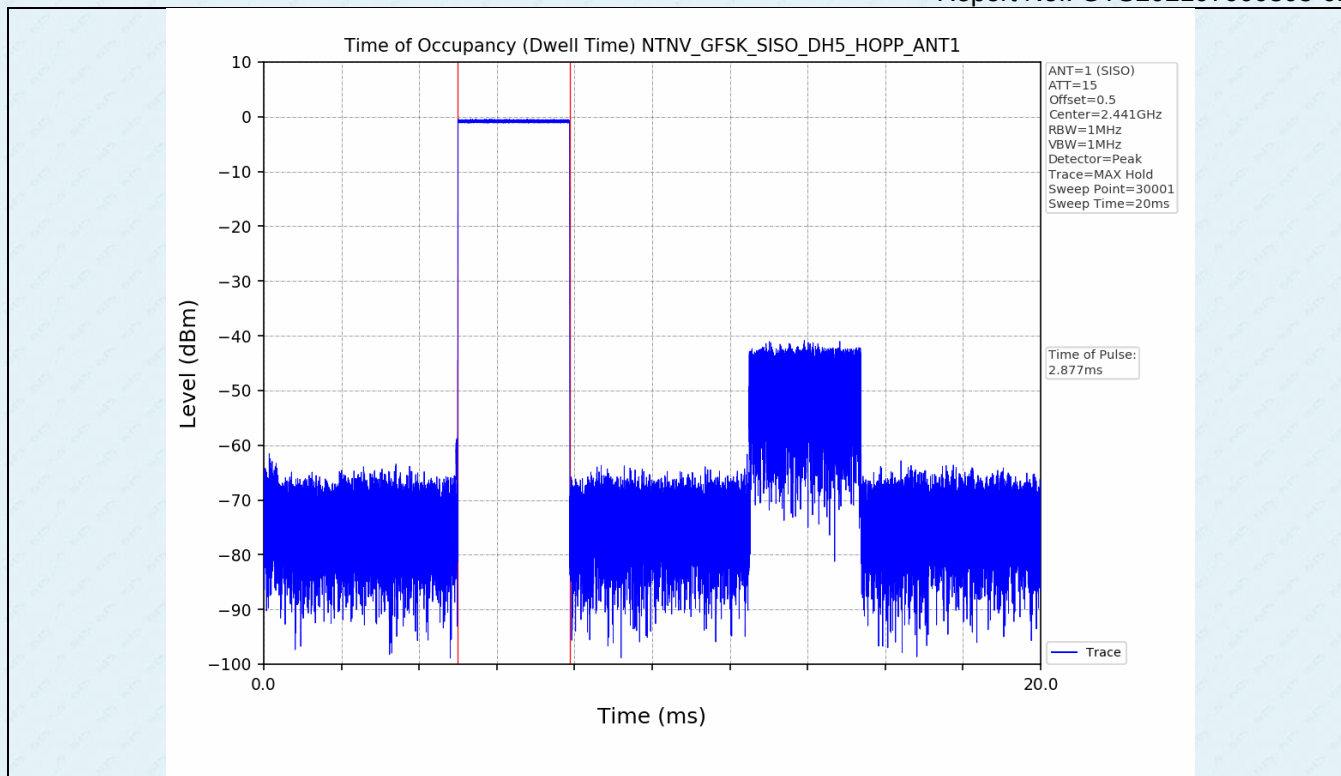
5.1 Test Result

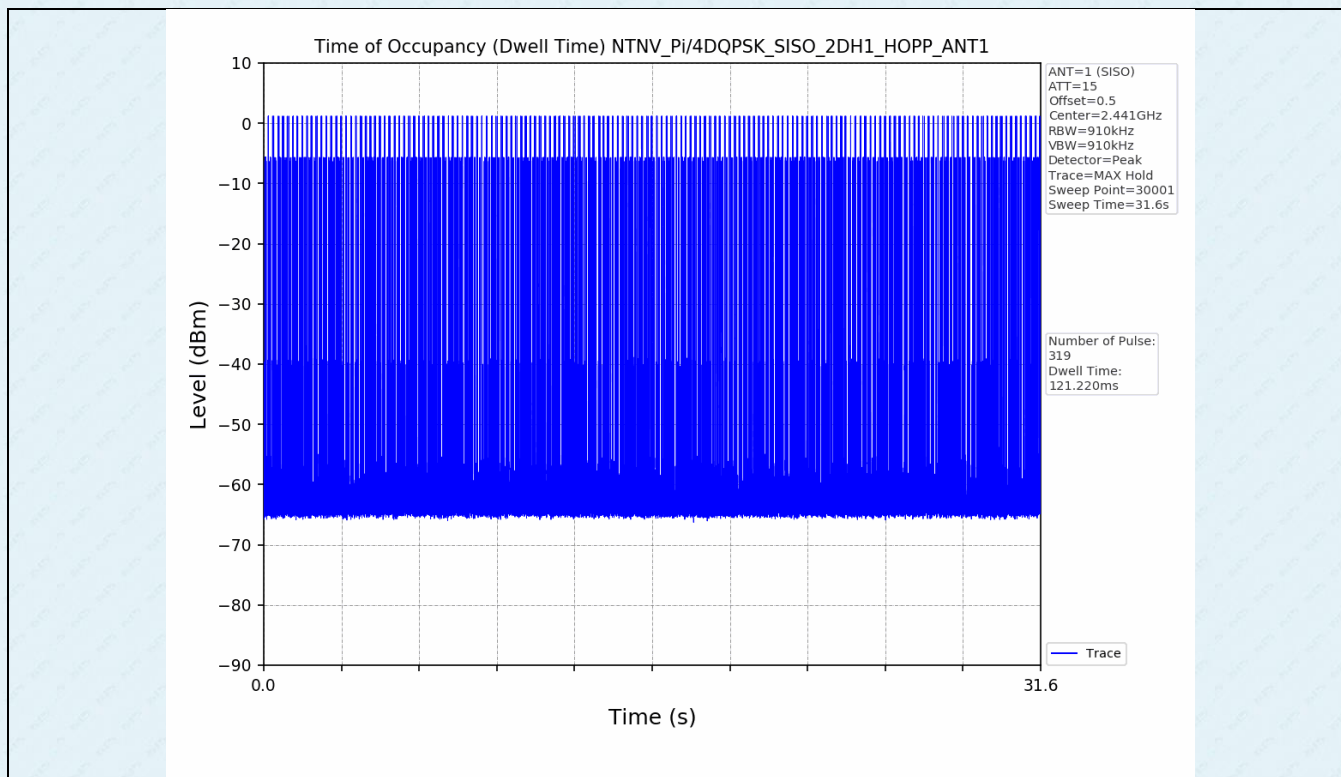
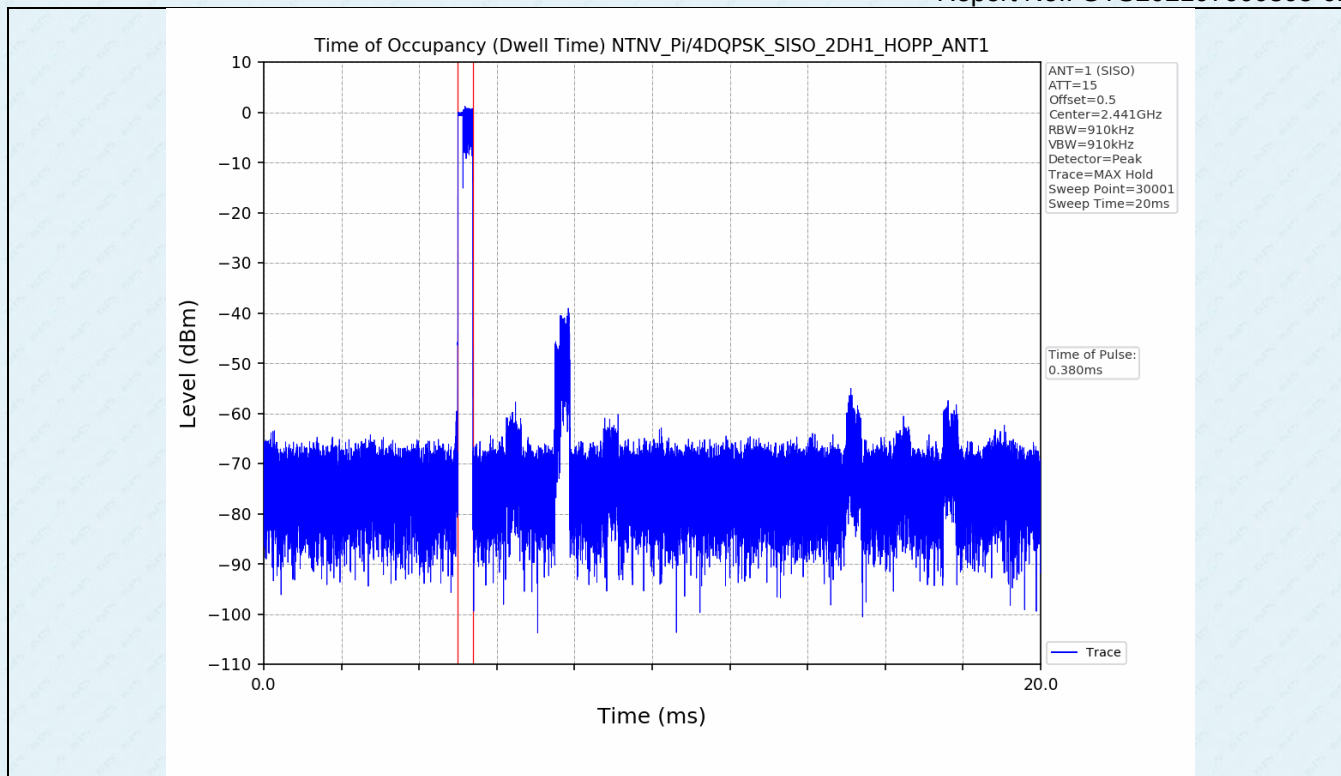
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.372	31.6	320	119.040	≤400	PASS
	DH3	SISO	1	1.627	31.6	163	265.201	≤400	PASS
	DH5	SISO	1	2.877	31.6	112	322.224	≤400	PASS
Pi/4DQ PSK	2DH1	SISO	1	0.380	31.6	319	121.220	≤400	PASS
	2DH3	SISO	1	1.632	31.6	158	257.856	≤400	PASS
	2DH5	SISO	1	2.880	31.6	104	299.520	≤400	PASS
8DPSK	3DH1	SISO	1	0.381	31.6	320	121.920	≤400	PASS
	3DH3	SISO	1	1.631	31.6	160	260.960	≤400	PASS
	3DH5	SISO	1	2.883	31.6	106	305.598	≤400	PASS

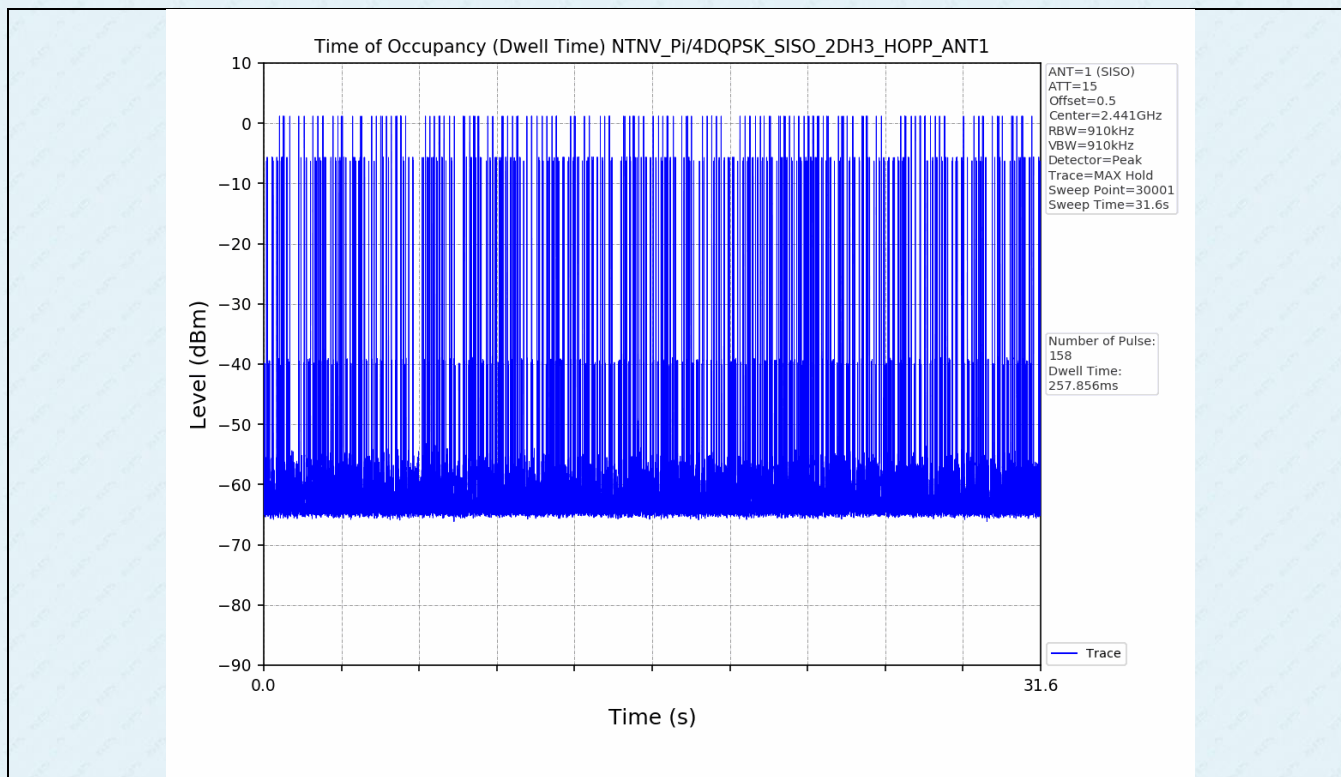
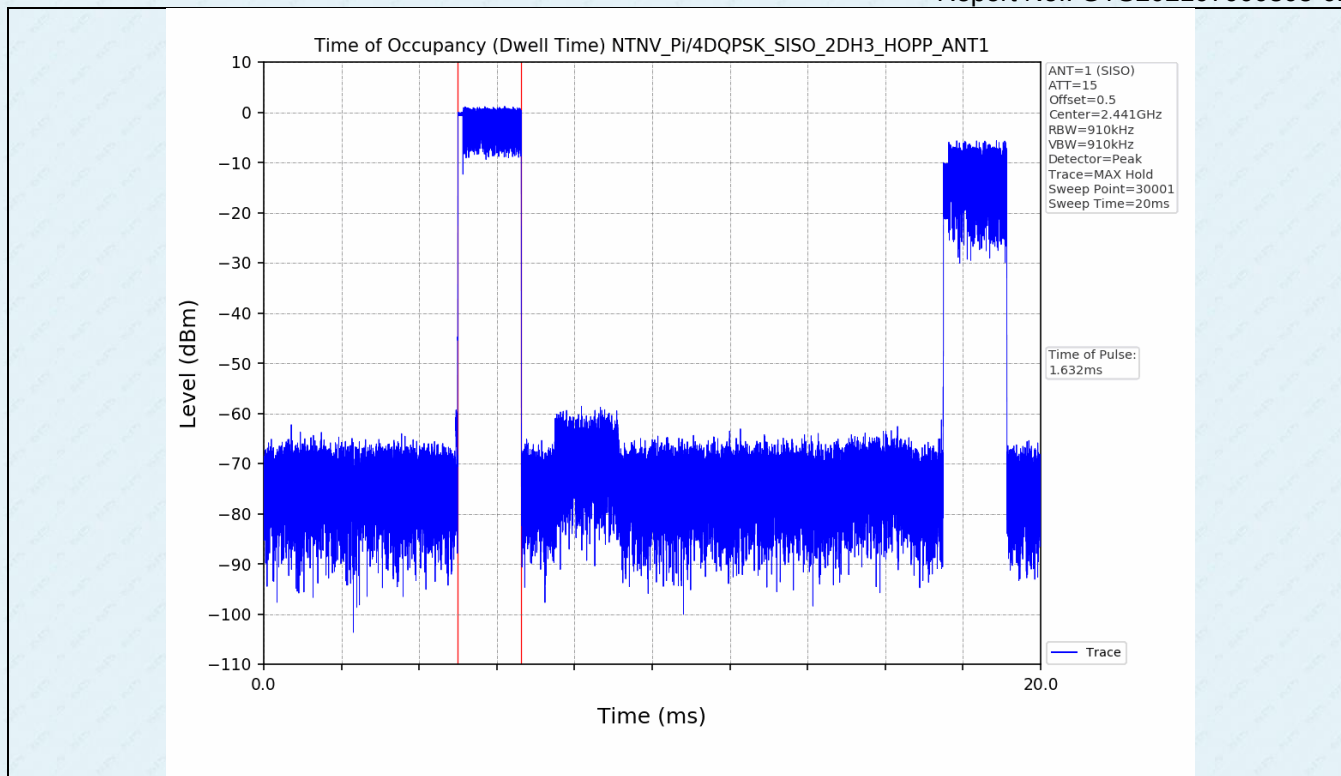
5.2 Test Graph

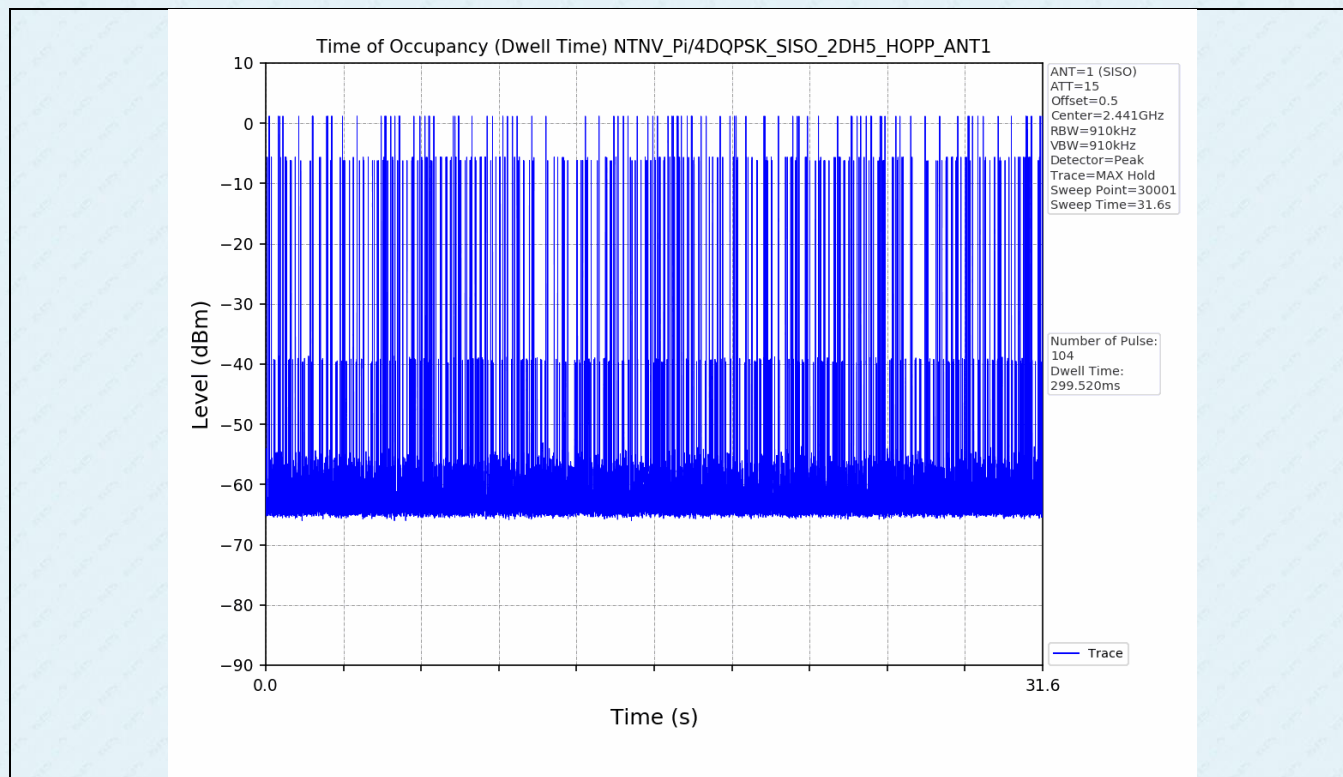
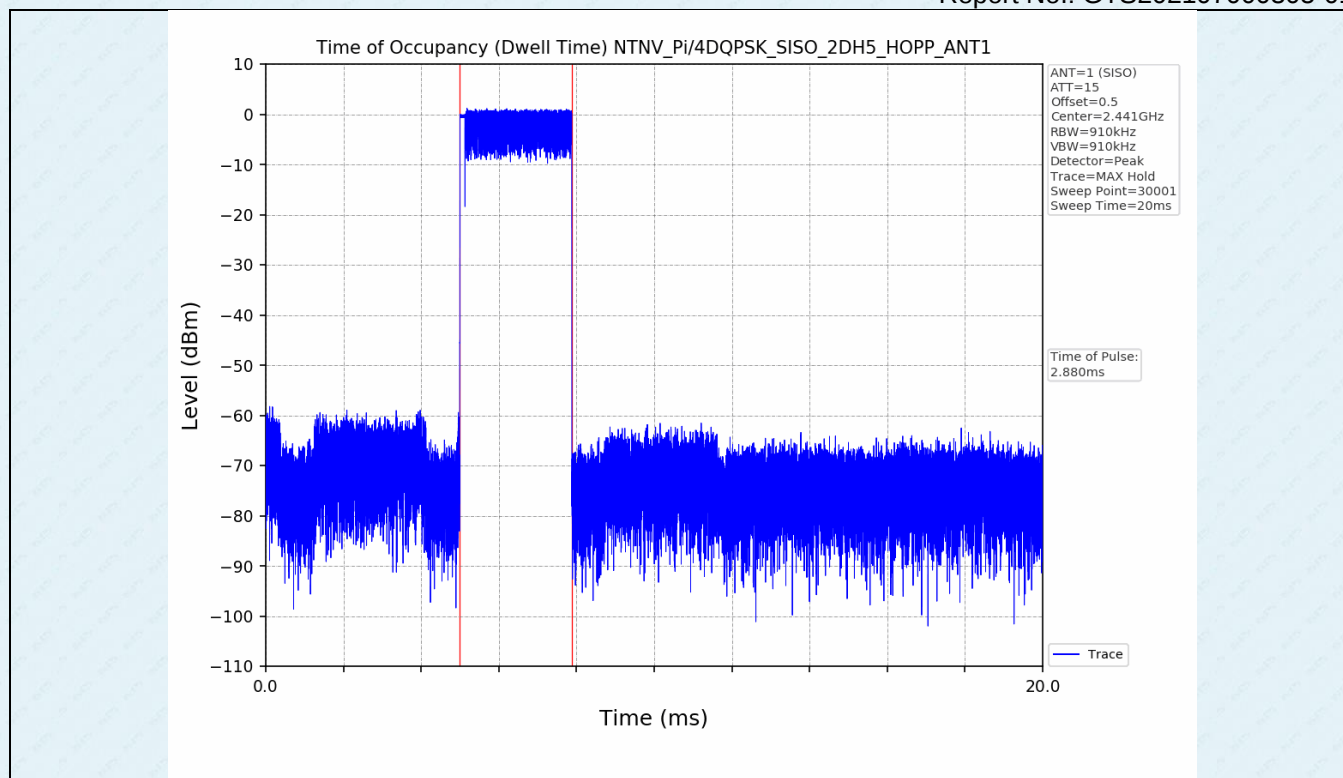


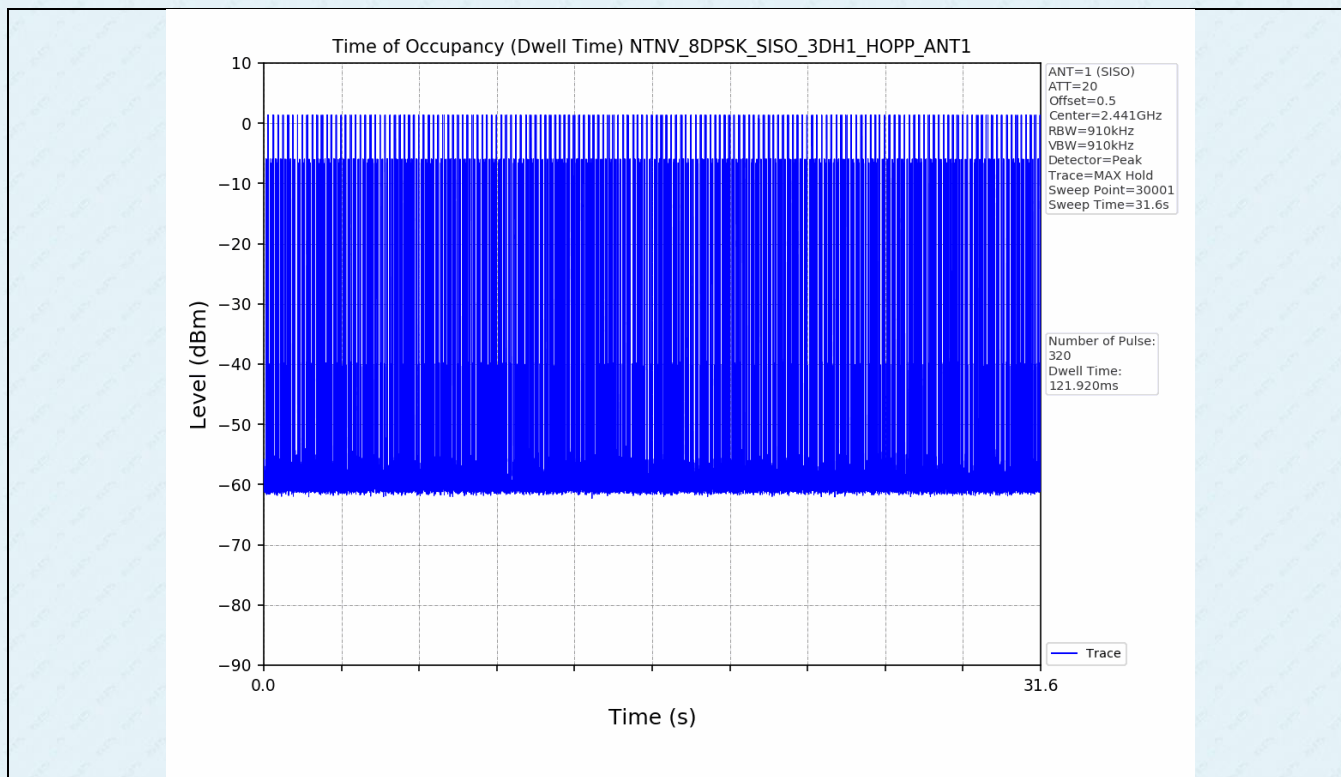
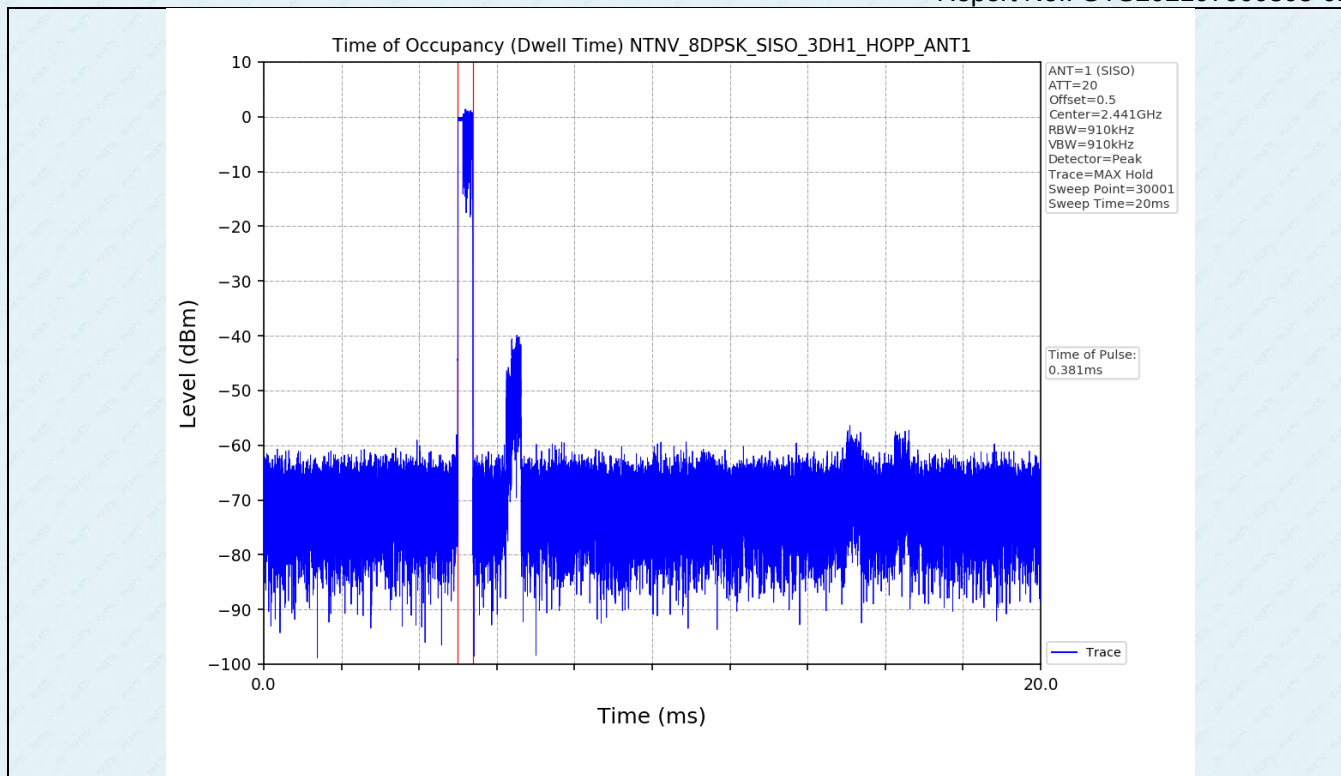


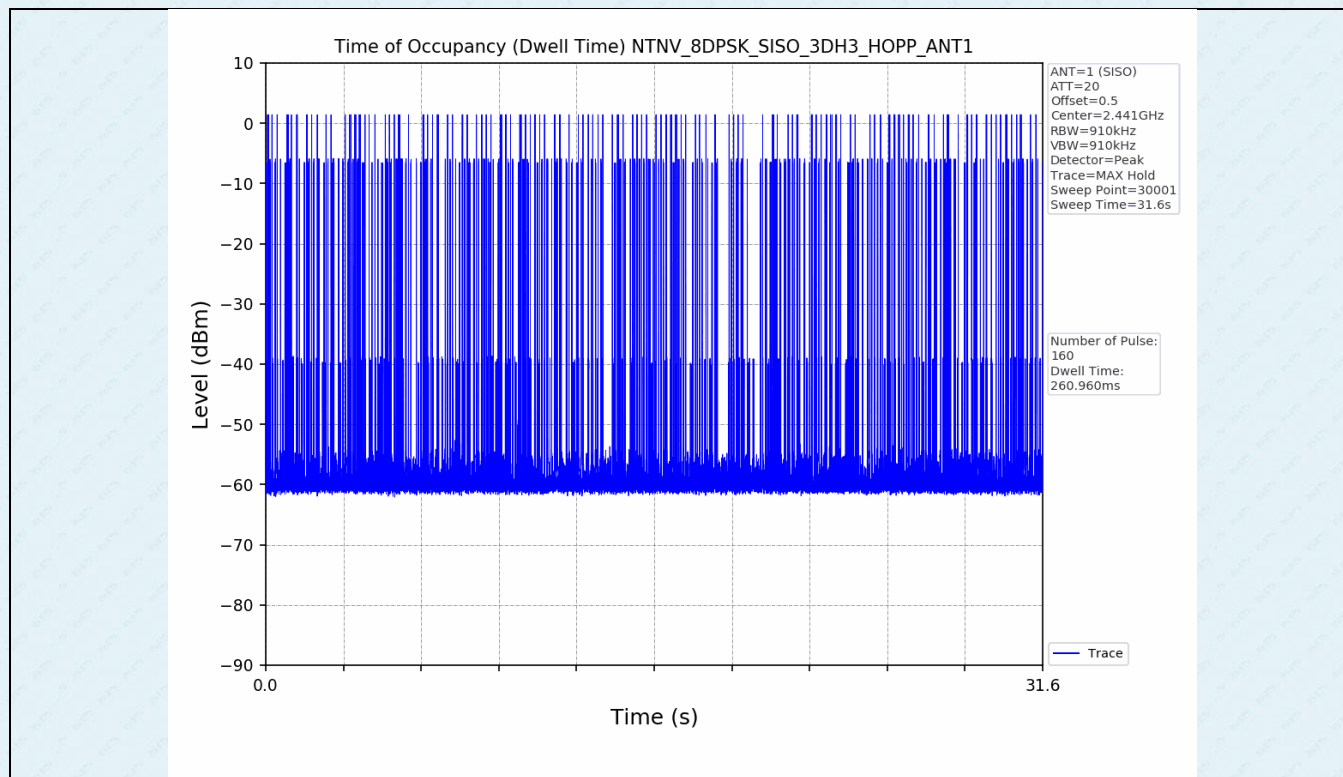
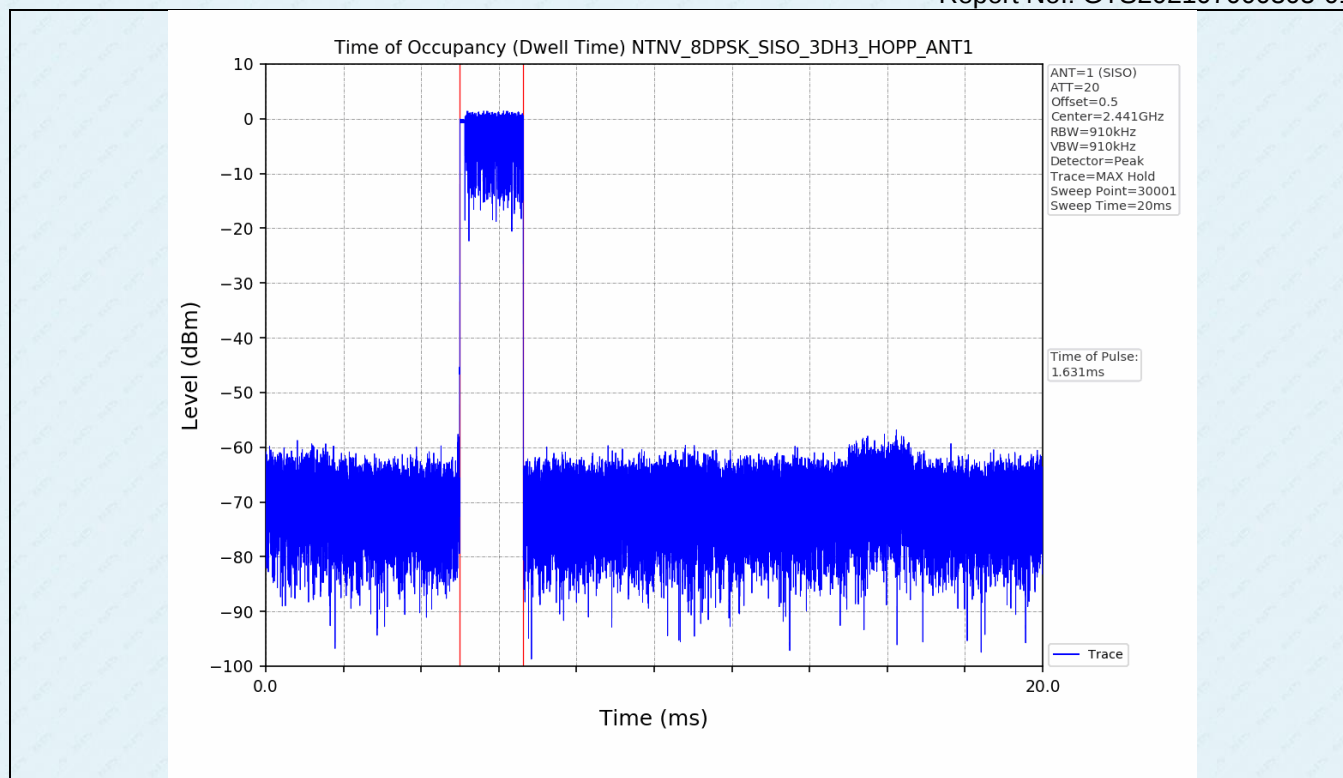


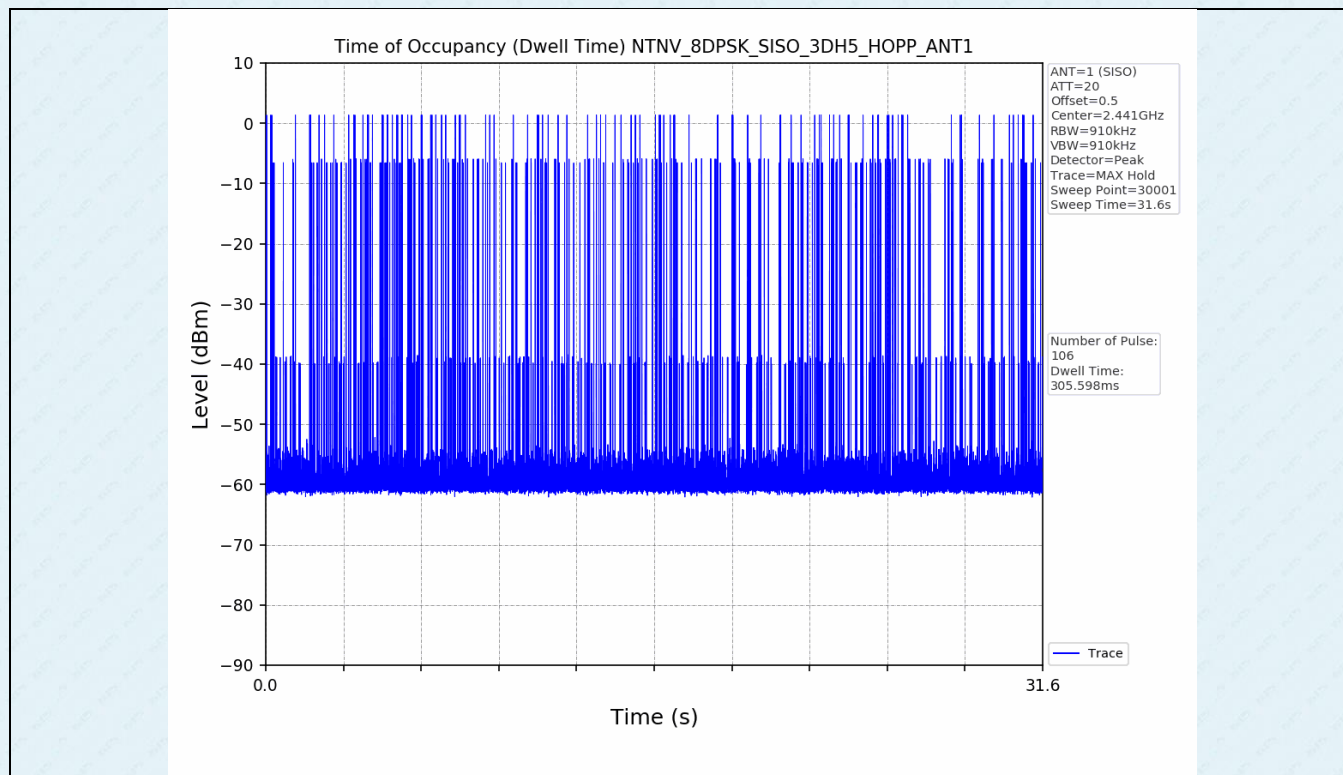
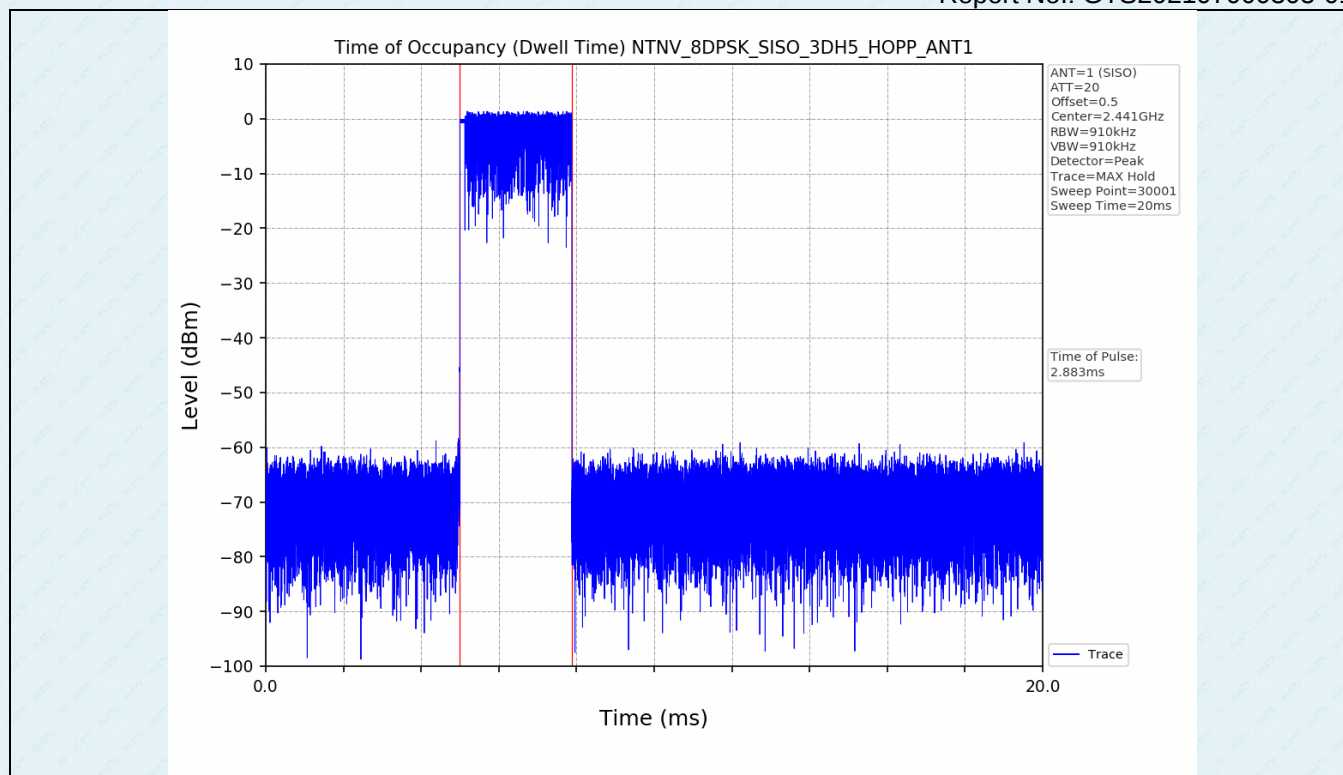










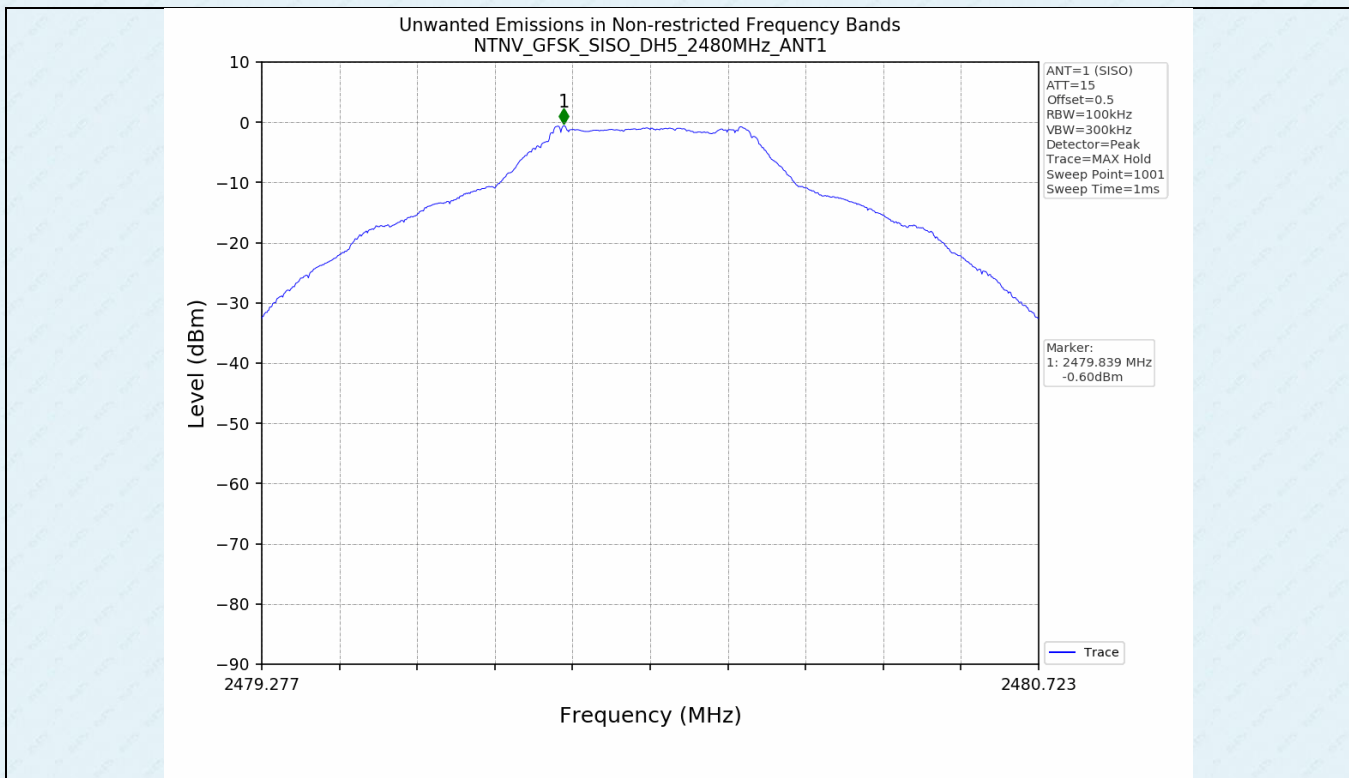


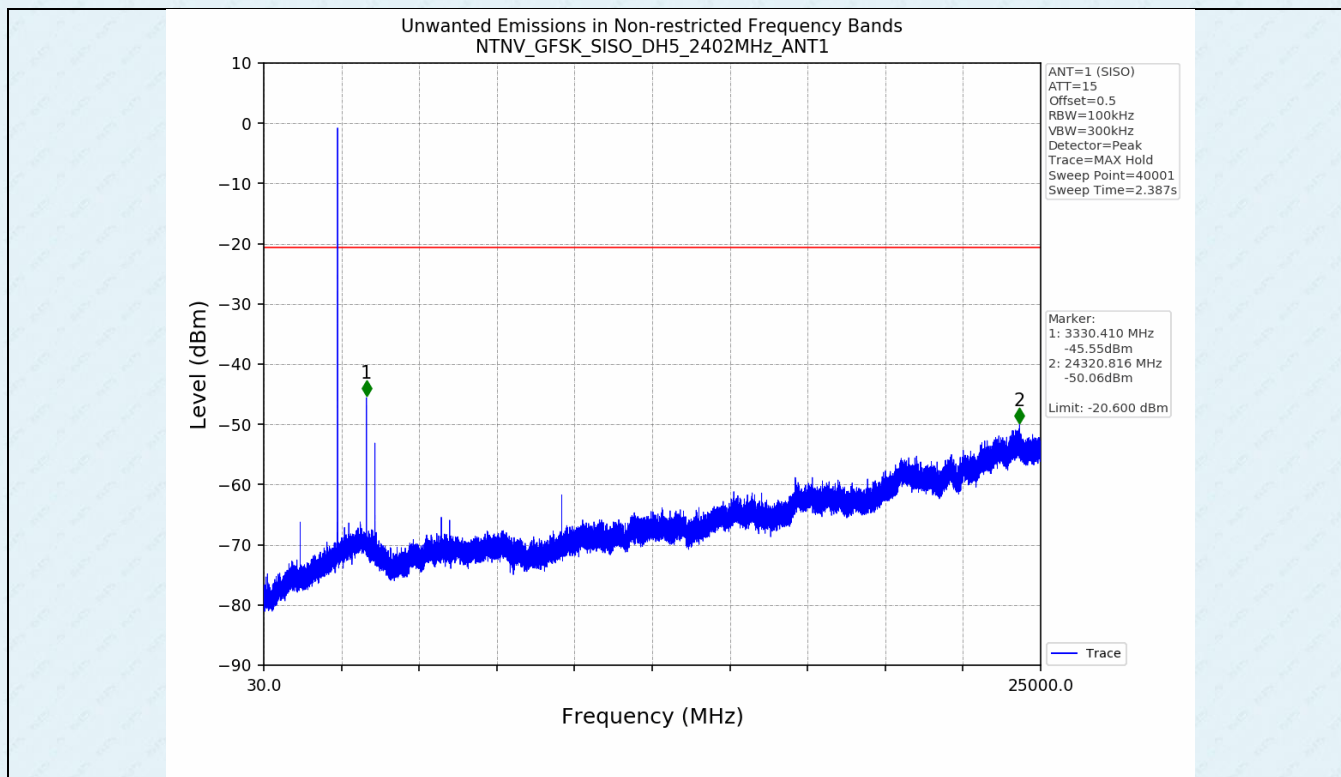
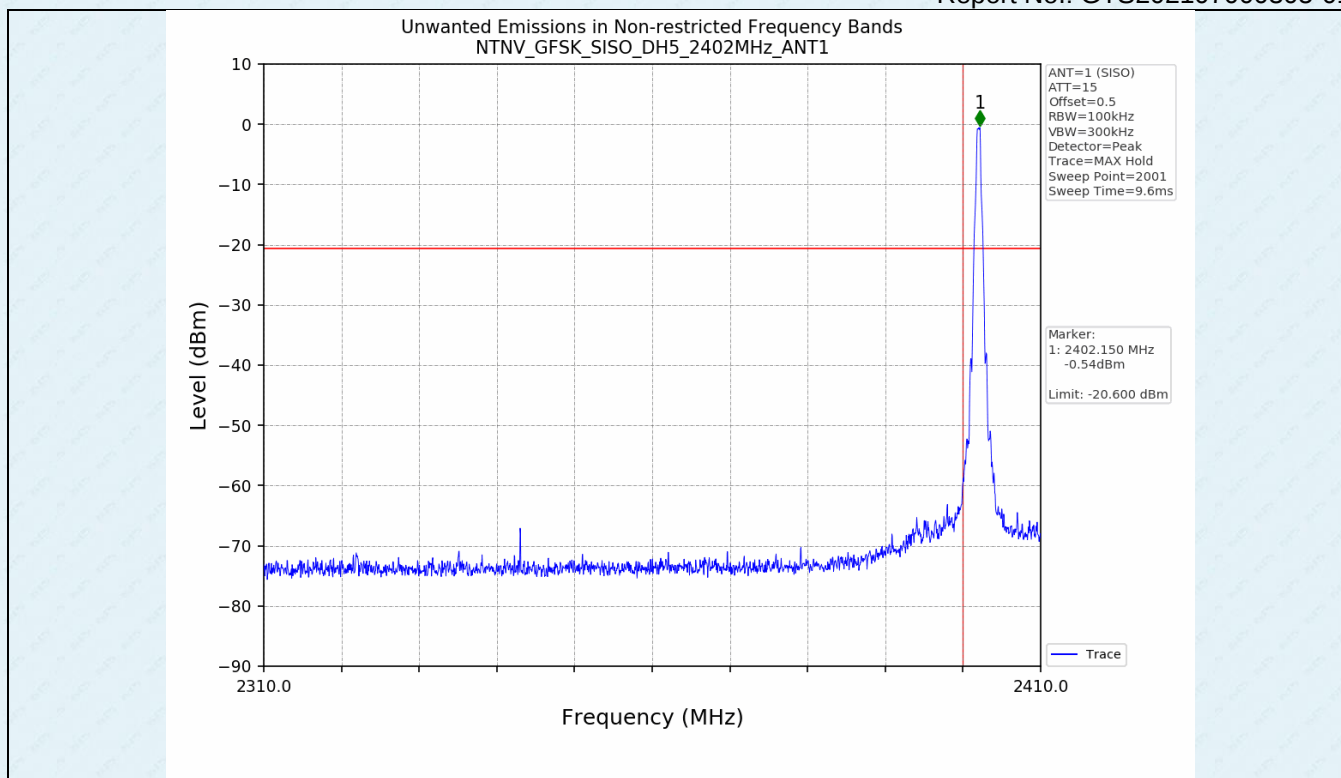
6. Unwanted Emissions in Non-restricted Frequency Bands

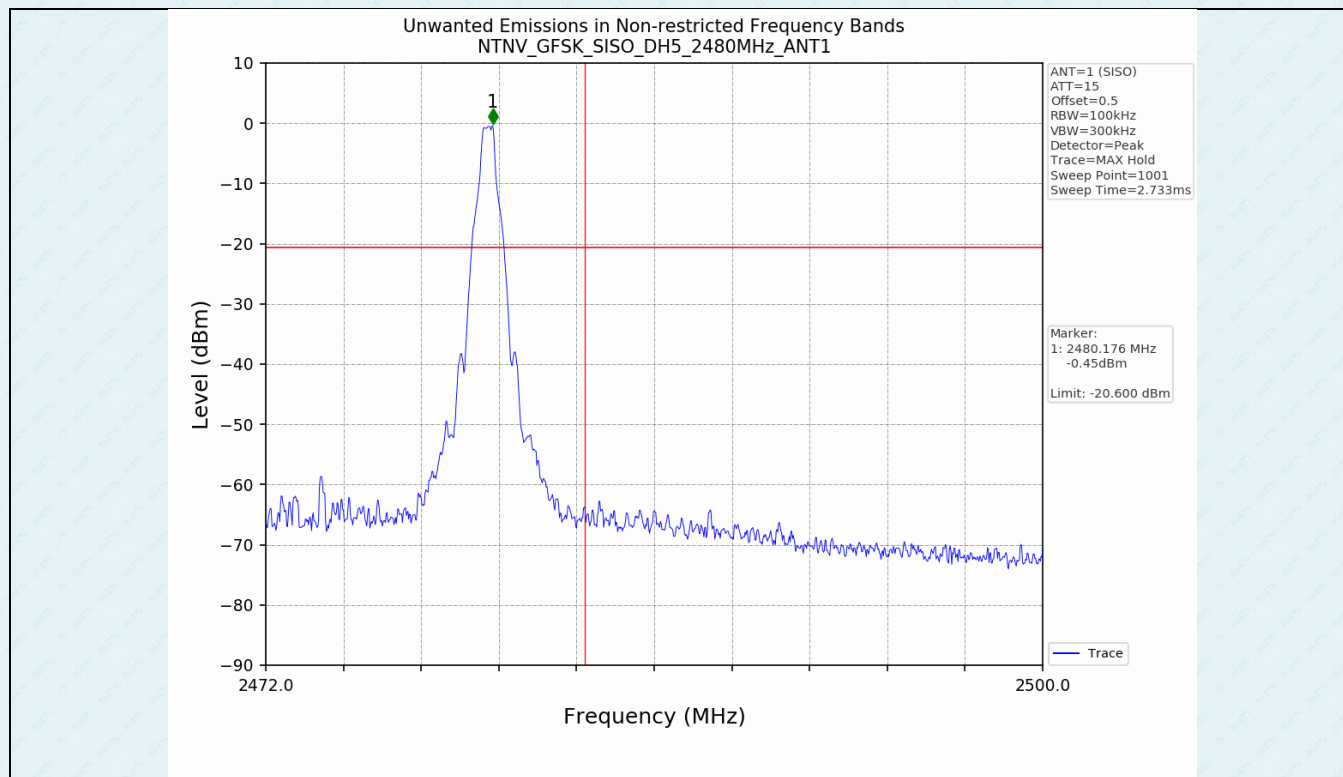
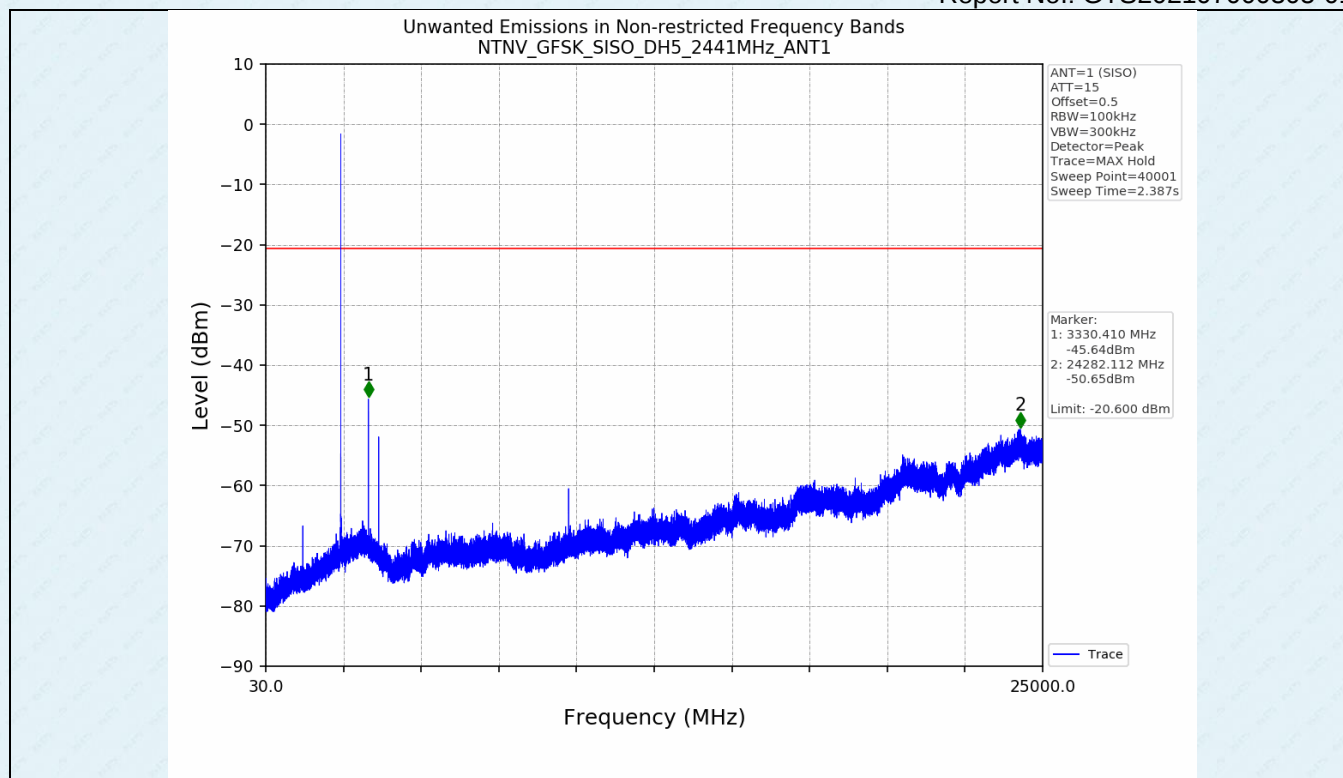
6.1 Test Result

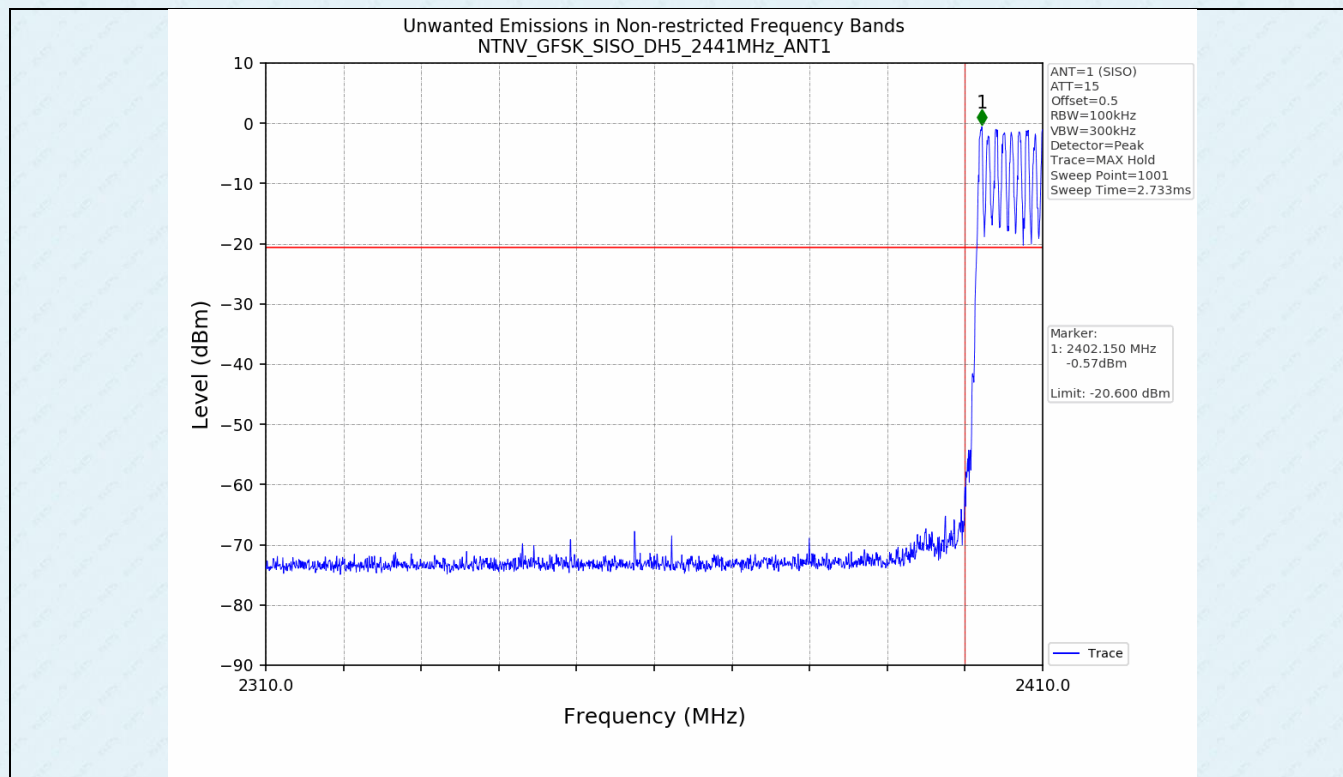
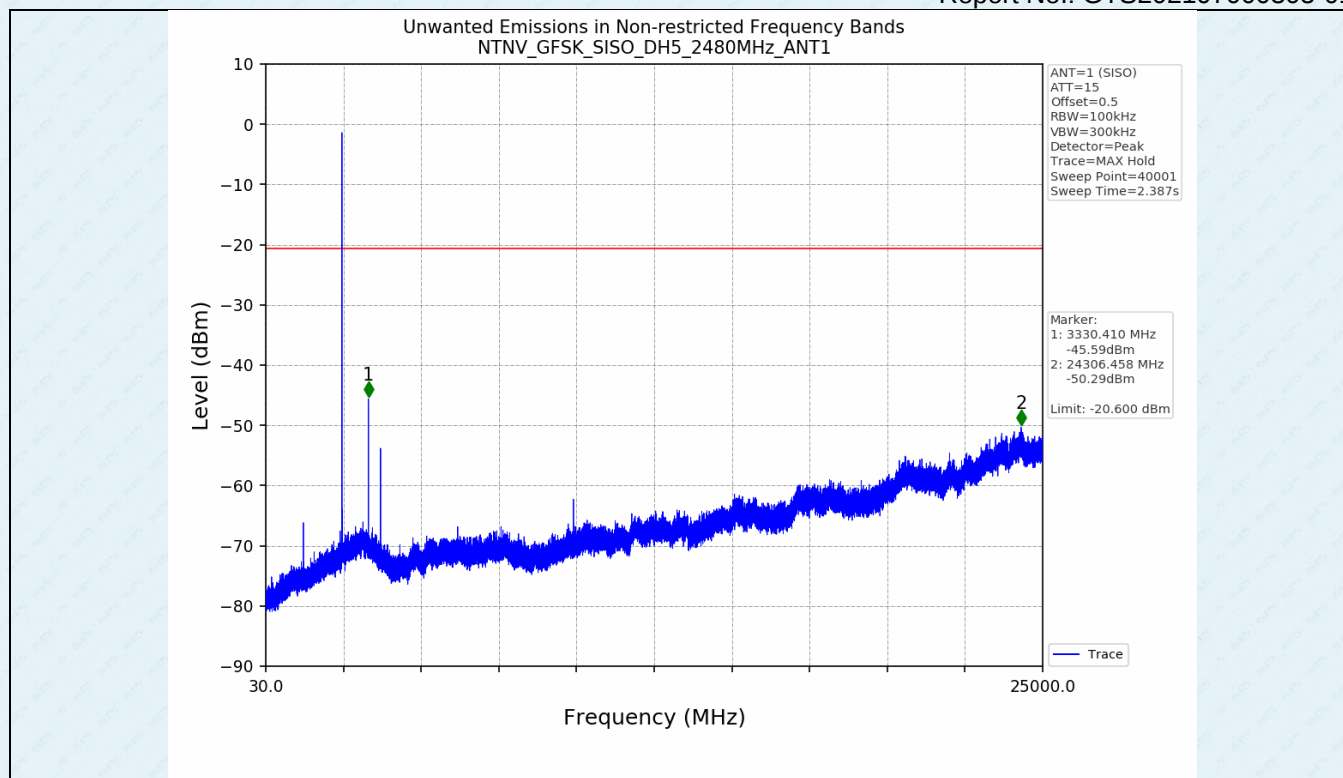
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-20.60	PASS
	2441	SISO	1	Refer to test graph	-20.60	PASS
	2480	SISO	1	Refer to test graph	-20.60	PASS
	Hopping	SISO	1	Refer to test graph	-20.60	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-20.15	PASS
	2441	SISO	1	Refer to test graph	-20.15	PASS
	2480	SISO	1	Refer to test graph	-20.15	PASS
	Hopping	SISO	1	Refer to test graph	-20.15	PASS
8DPSK	2402	SISO	1	Refer to test graph	-20.16	PASS
	2441	SISO	1	Refer to test graph	-20.16	PASS
	2480	SISO	1	Refer to test graph	-20.16	PASS
	Hopping	SISO	1	Refer to test graph	-20.16	PASS

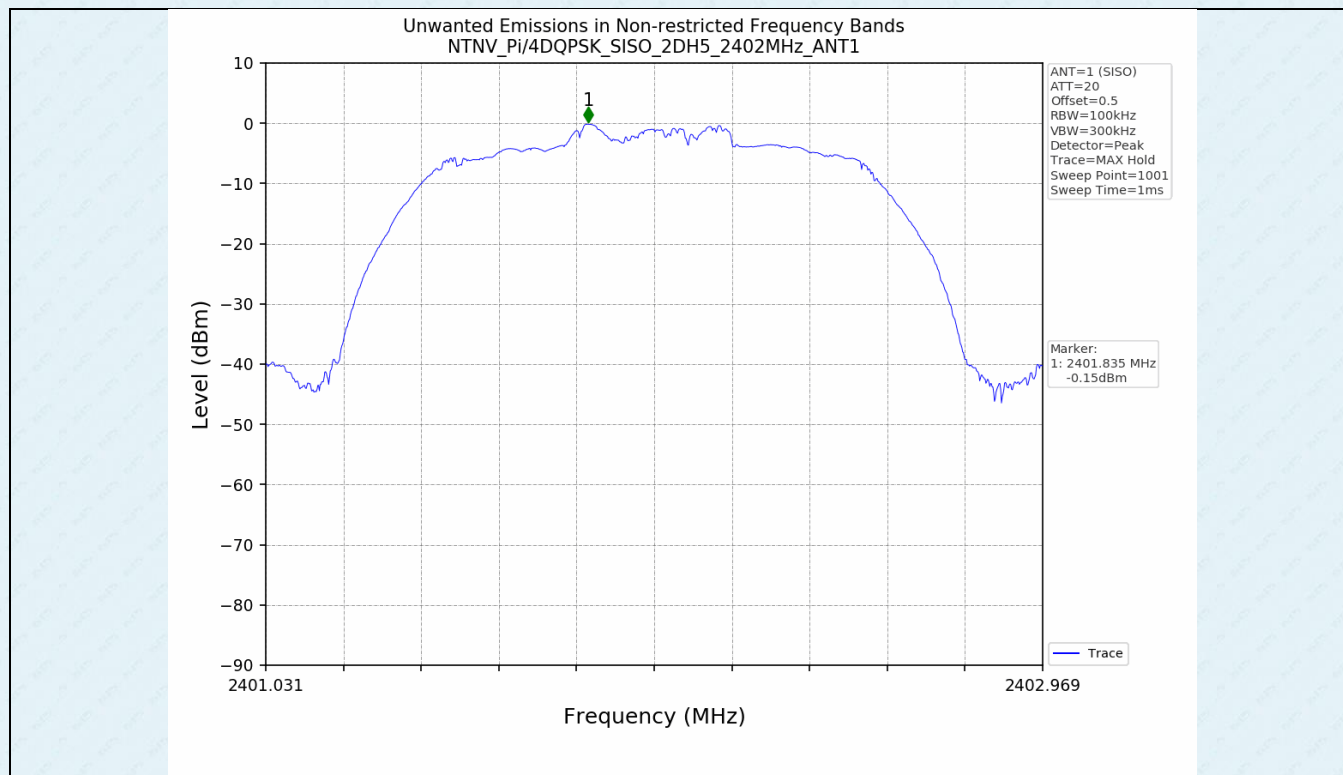
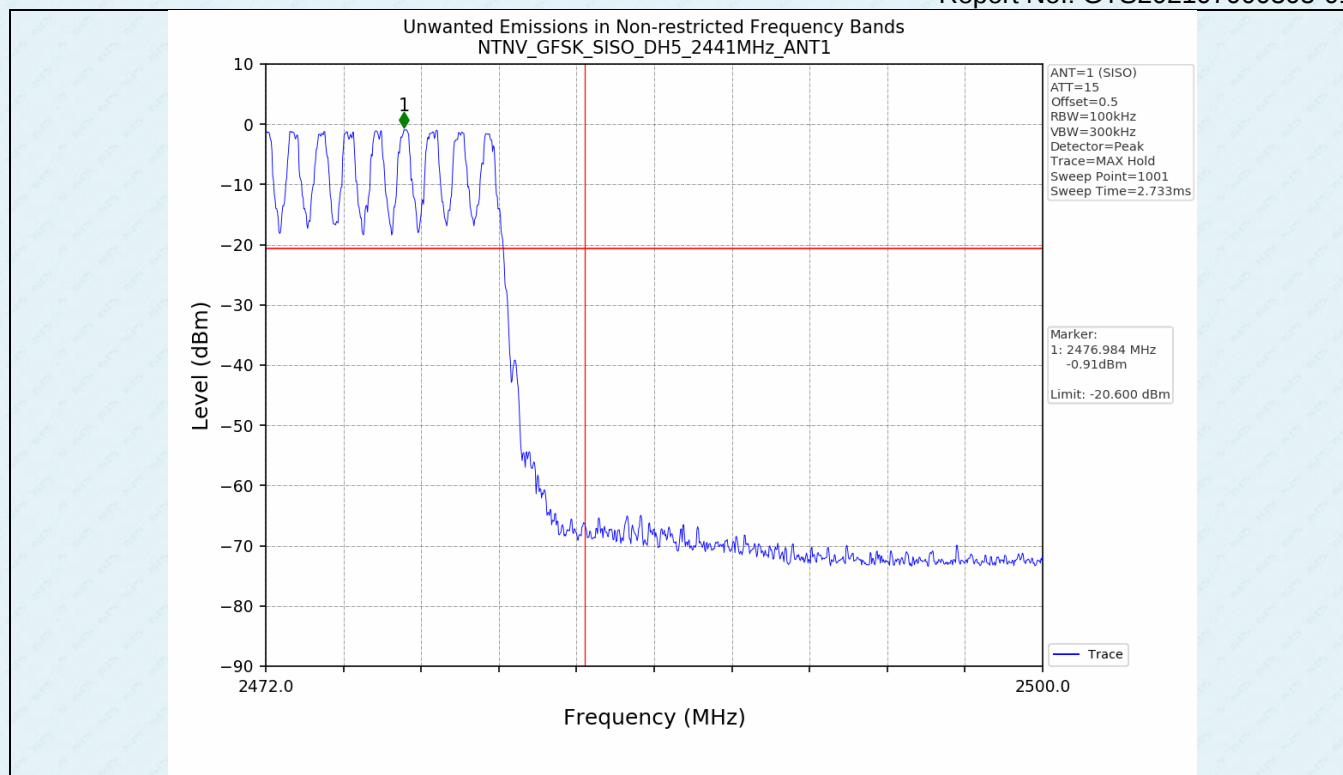
6.2 Test Graph

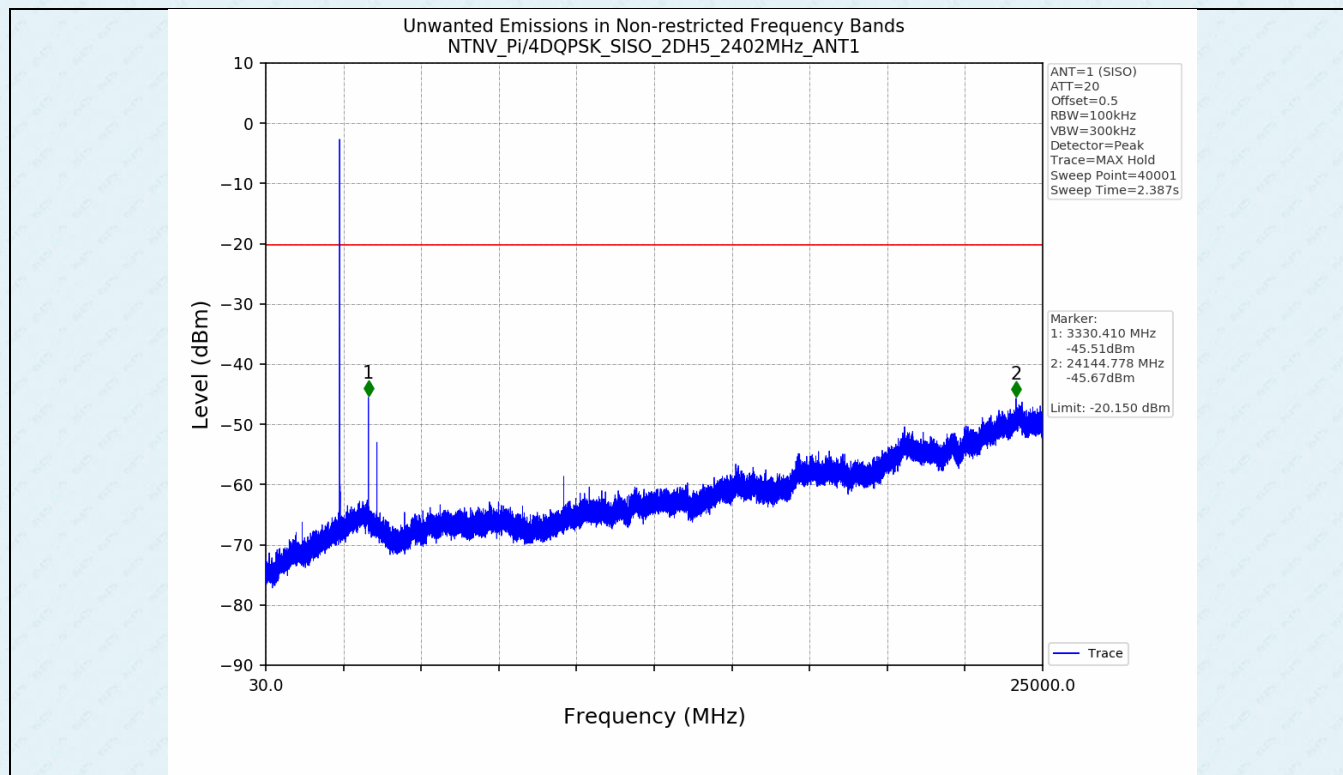
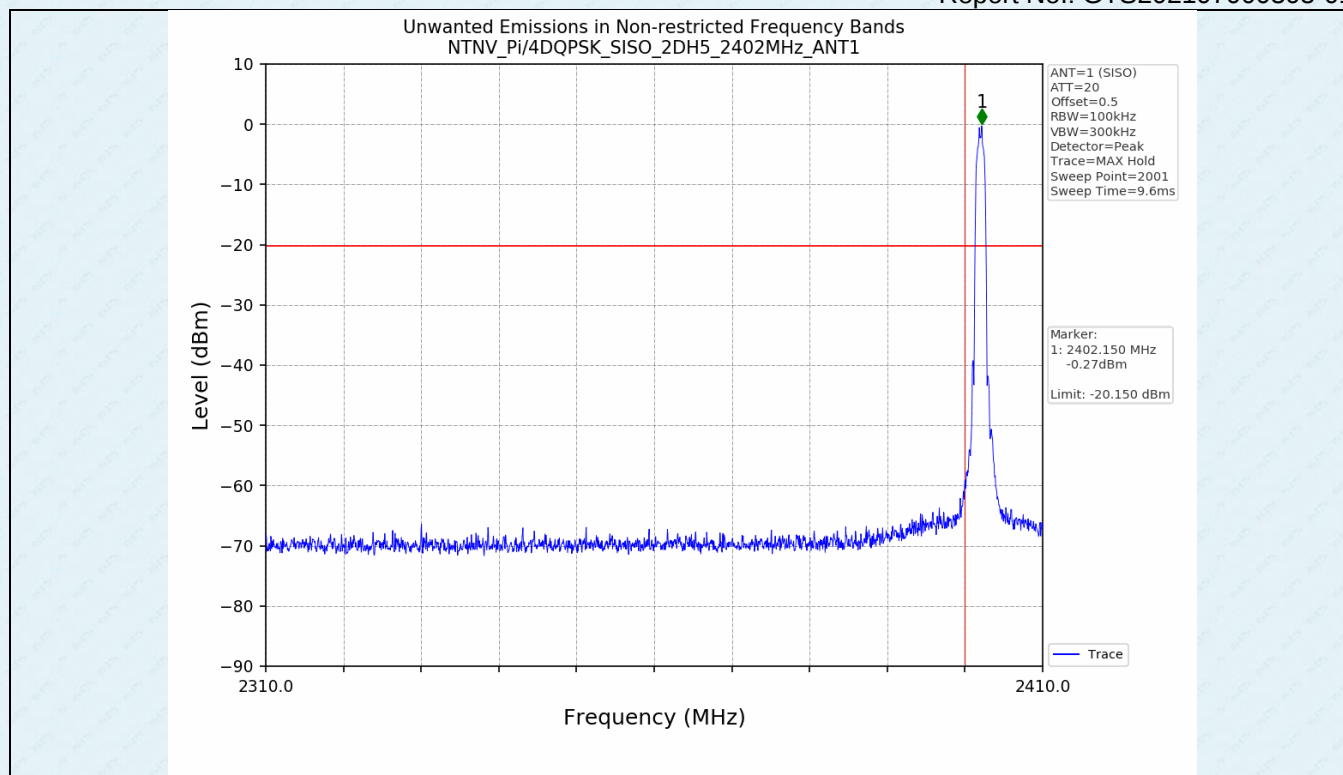


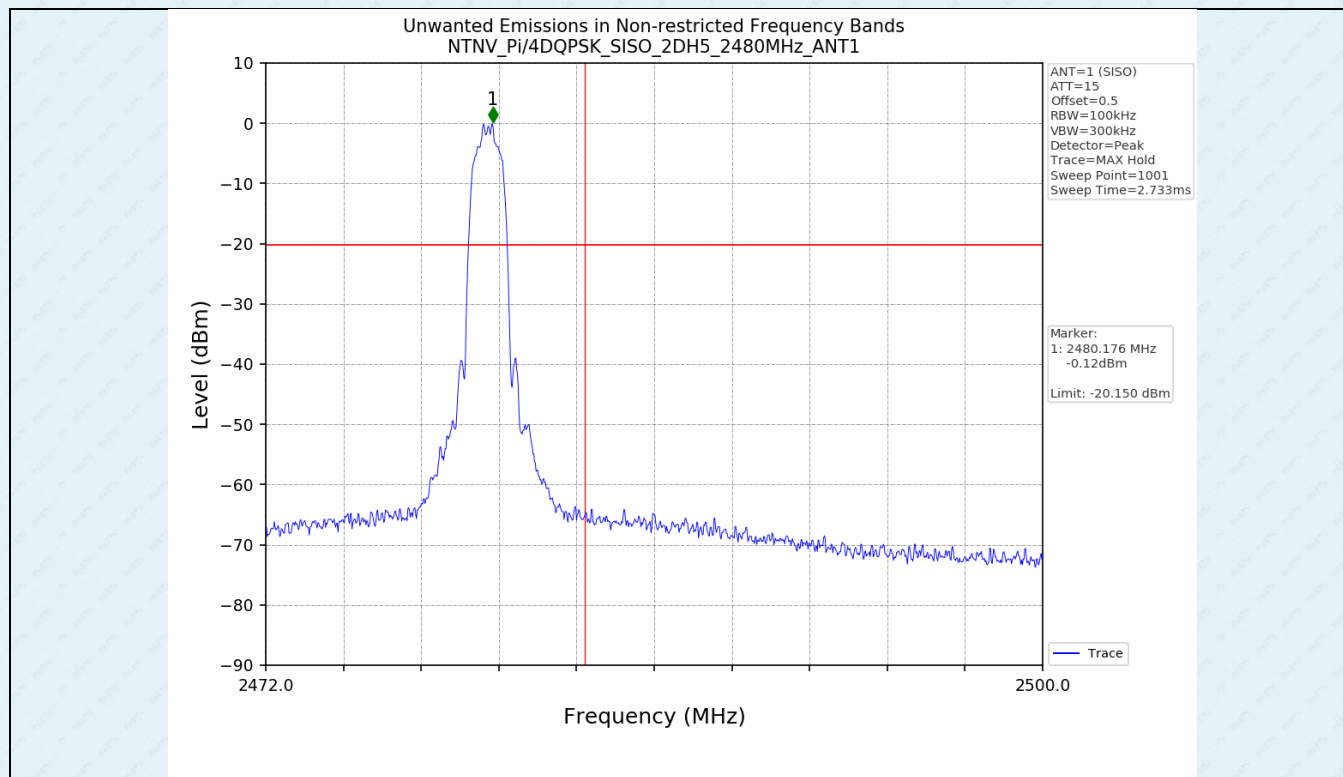
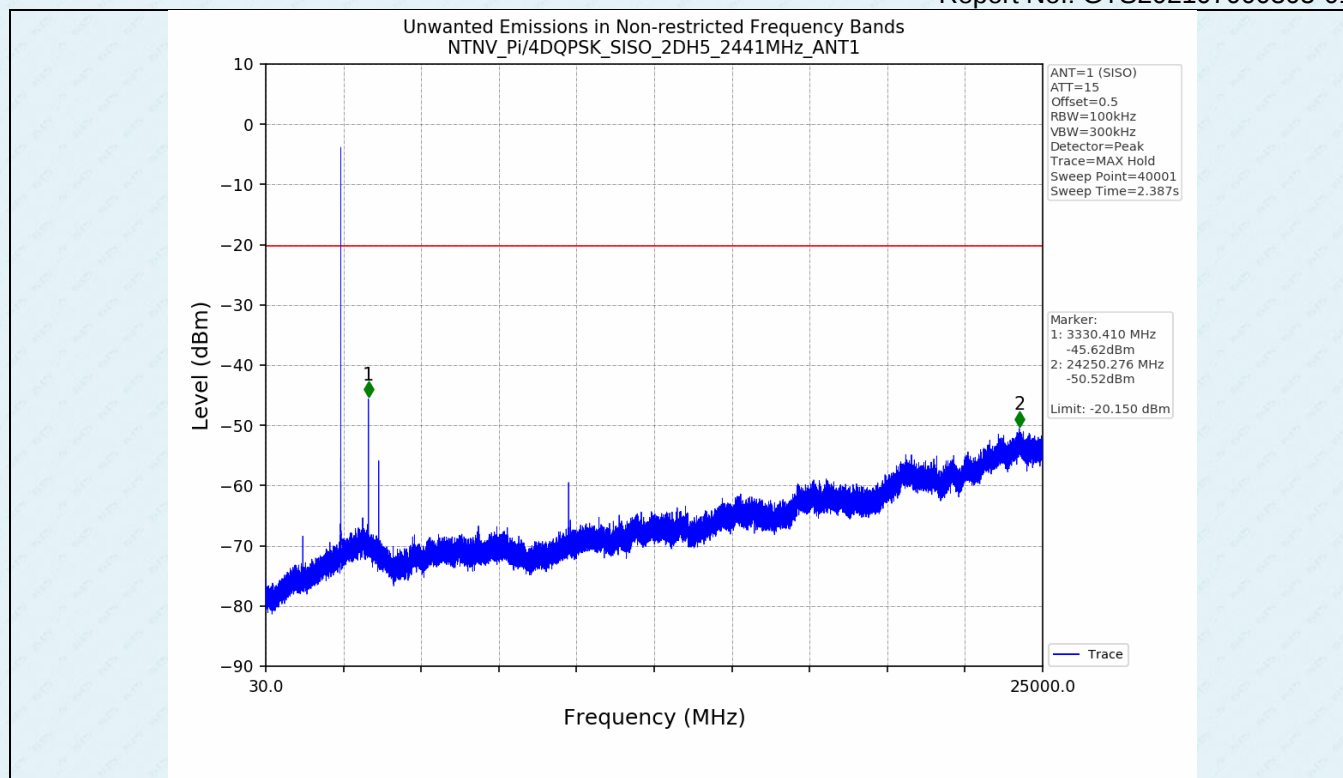


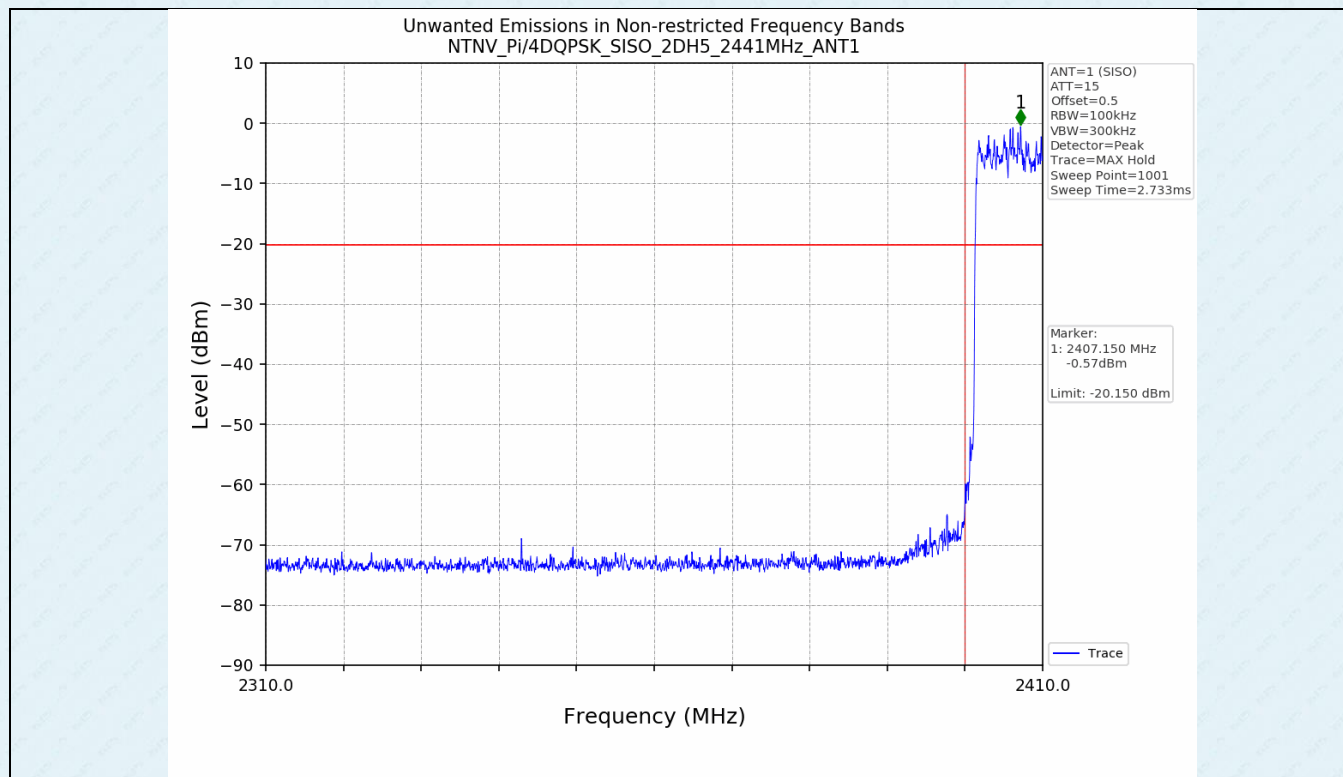
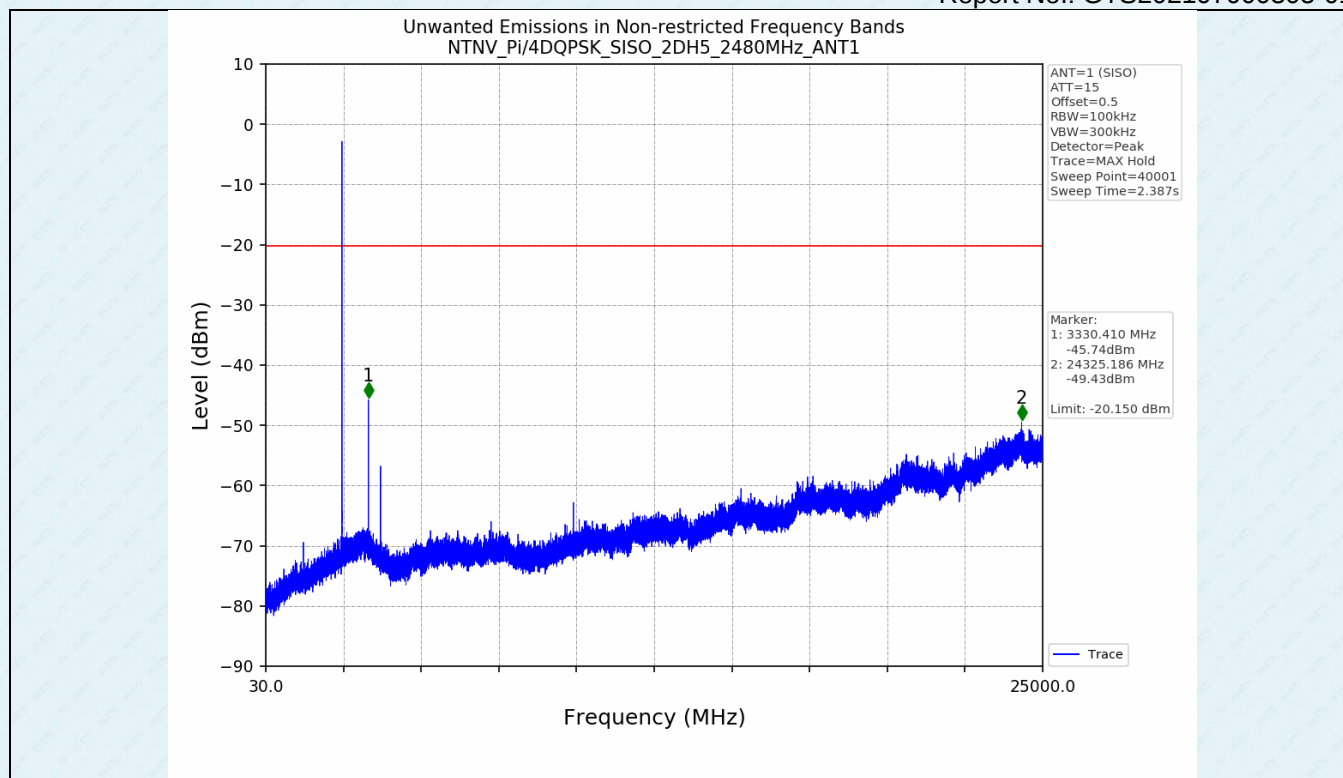


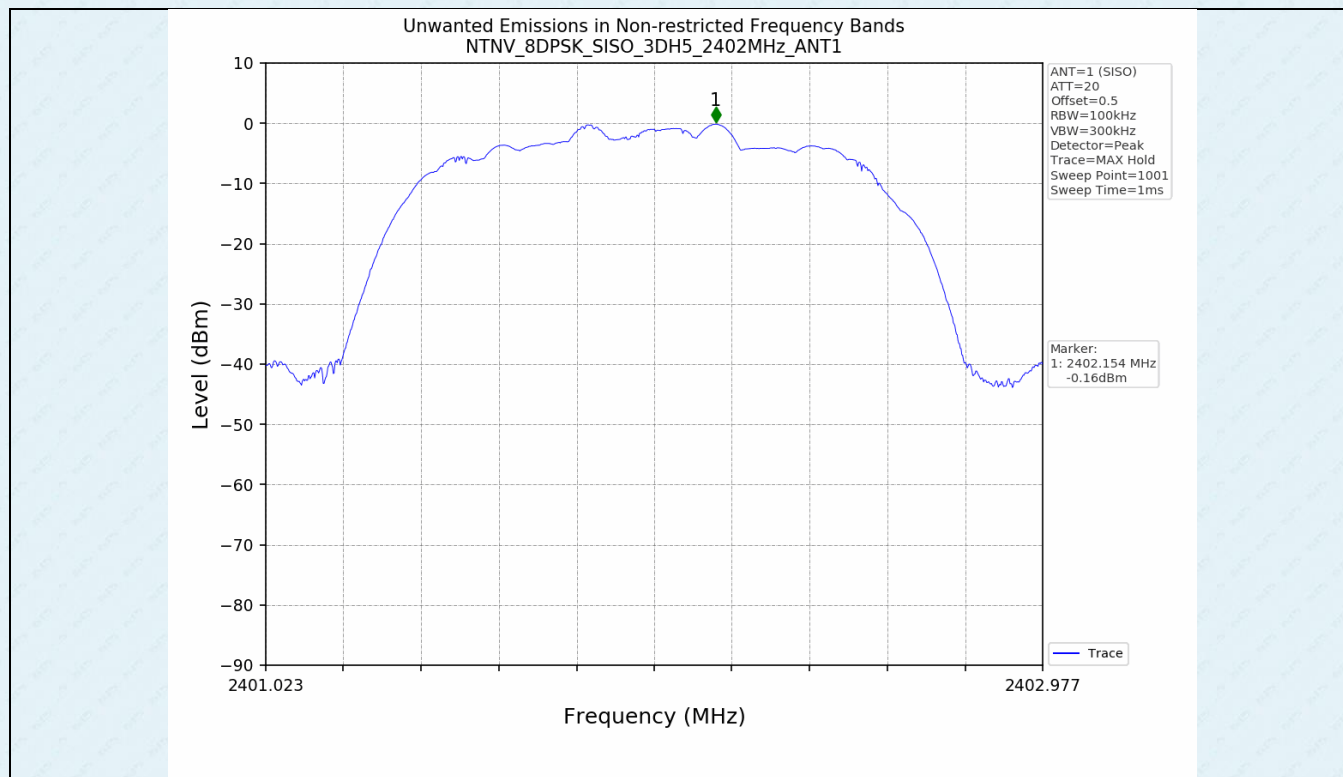
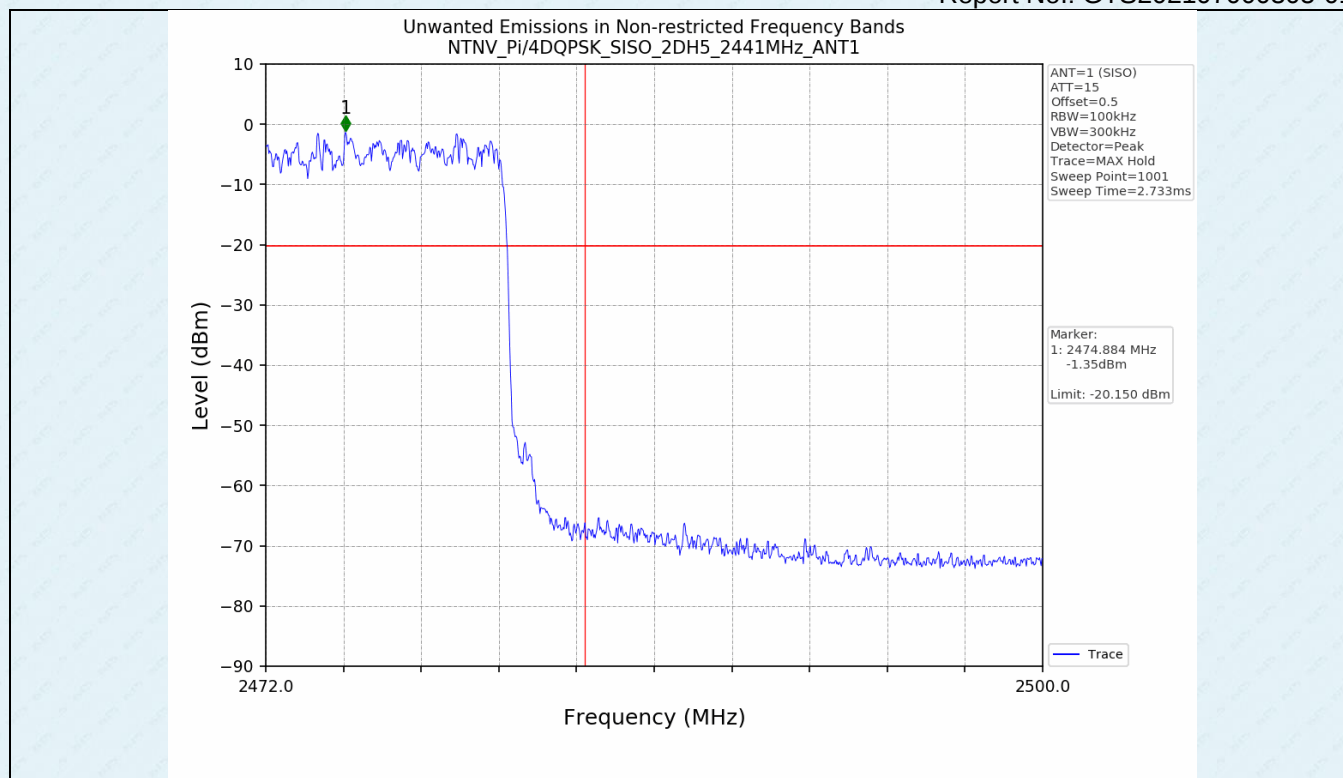


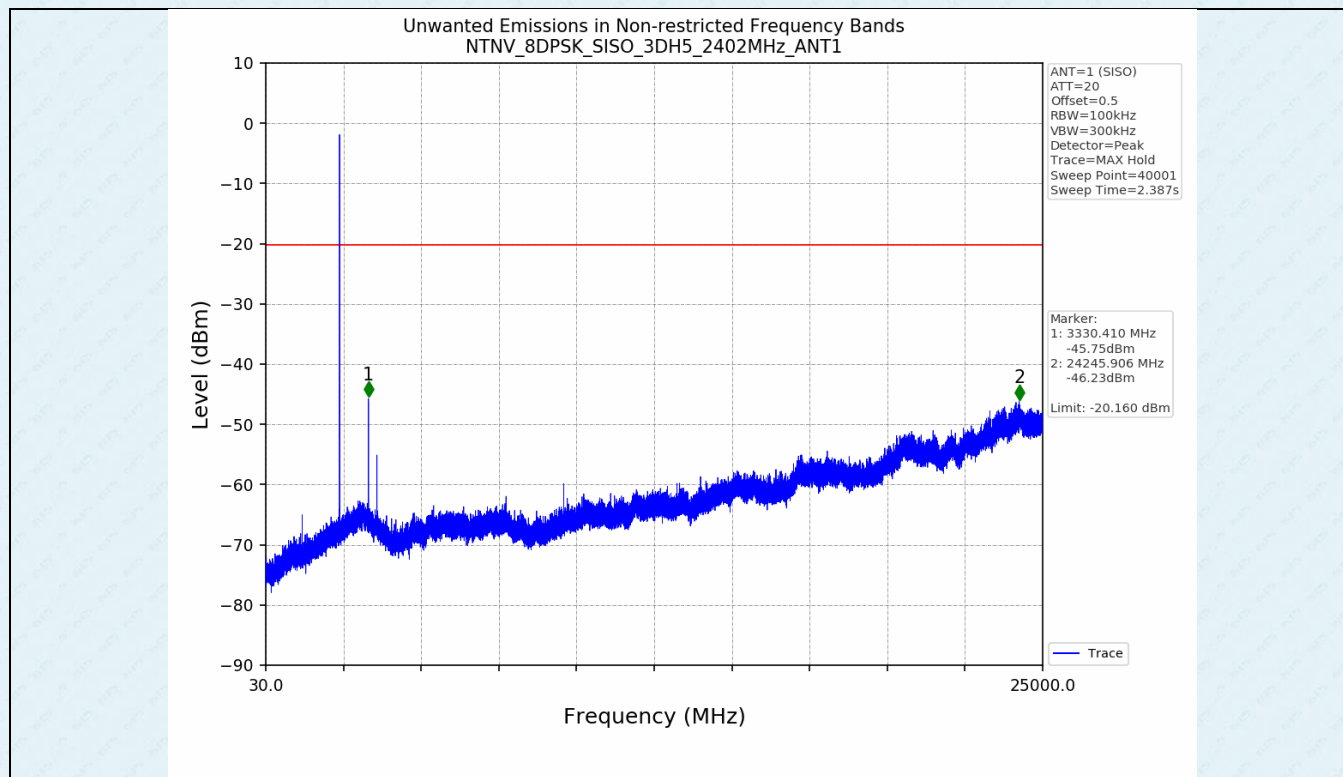
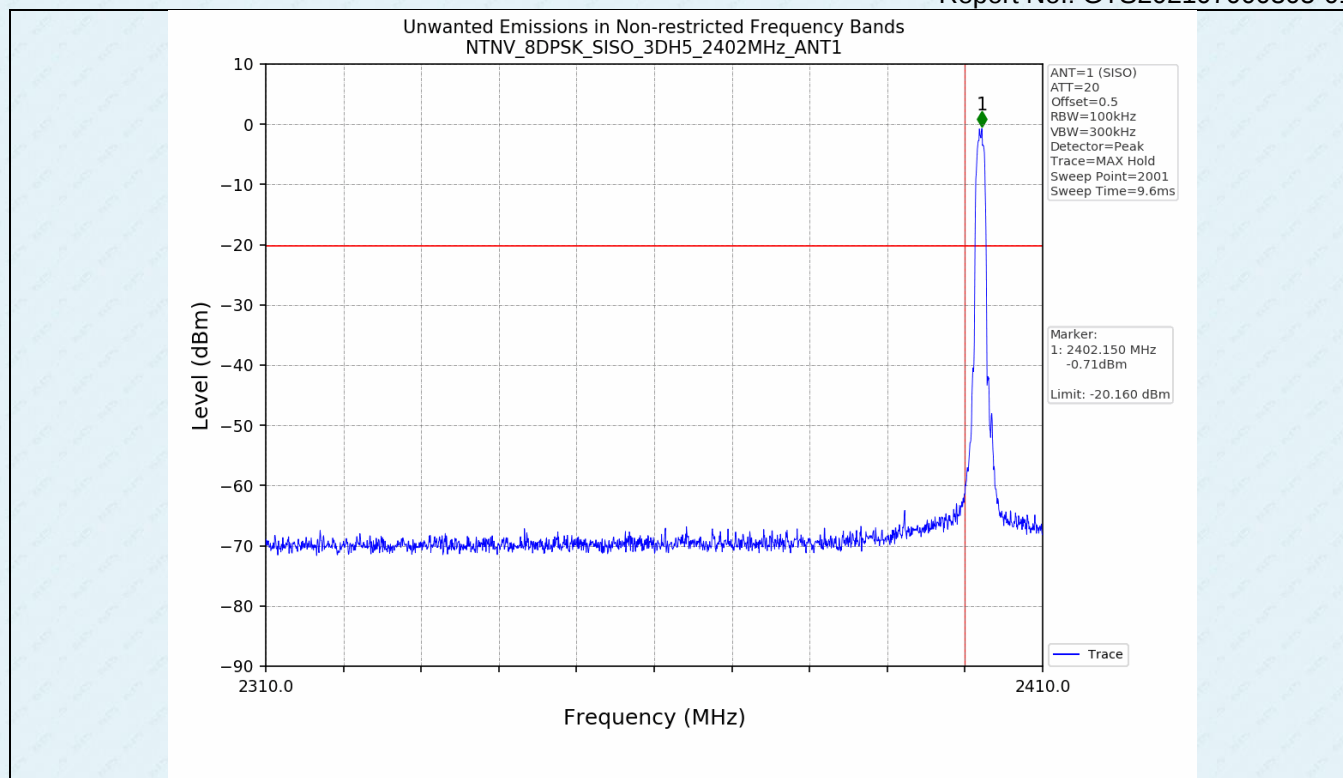


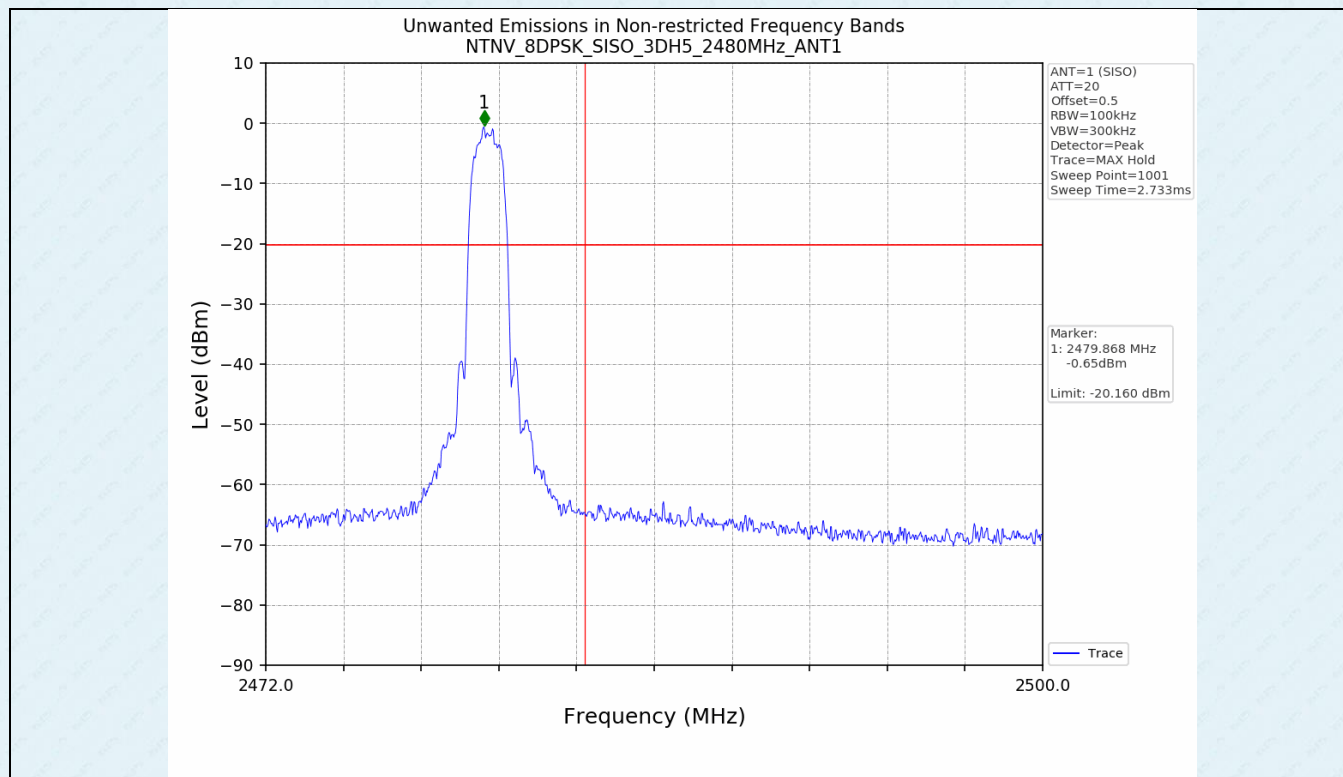
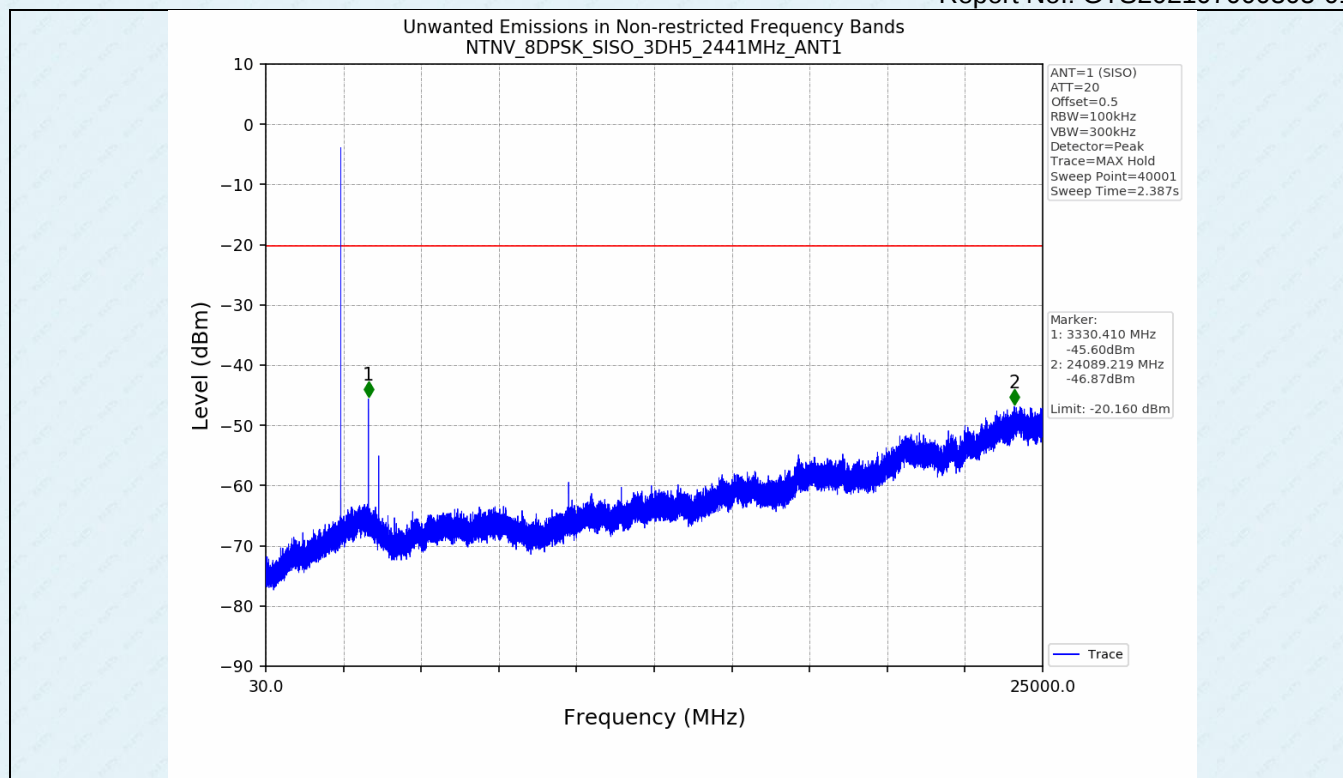


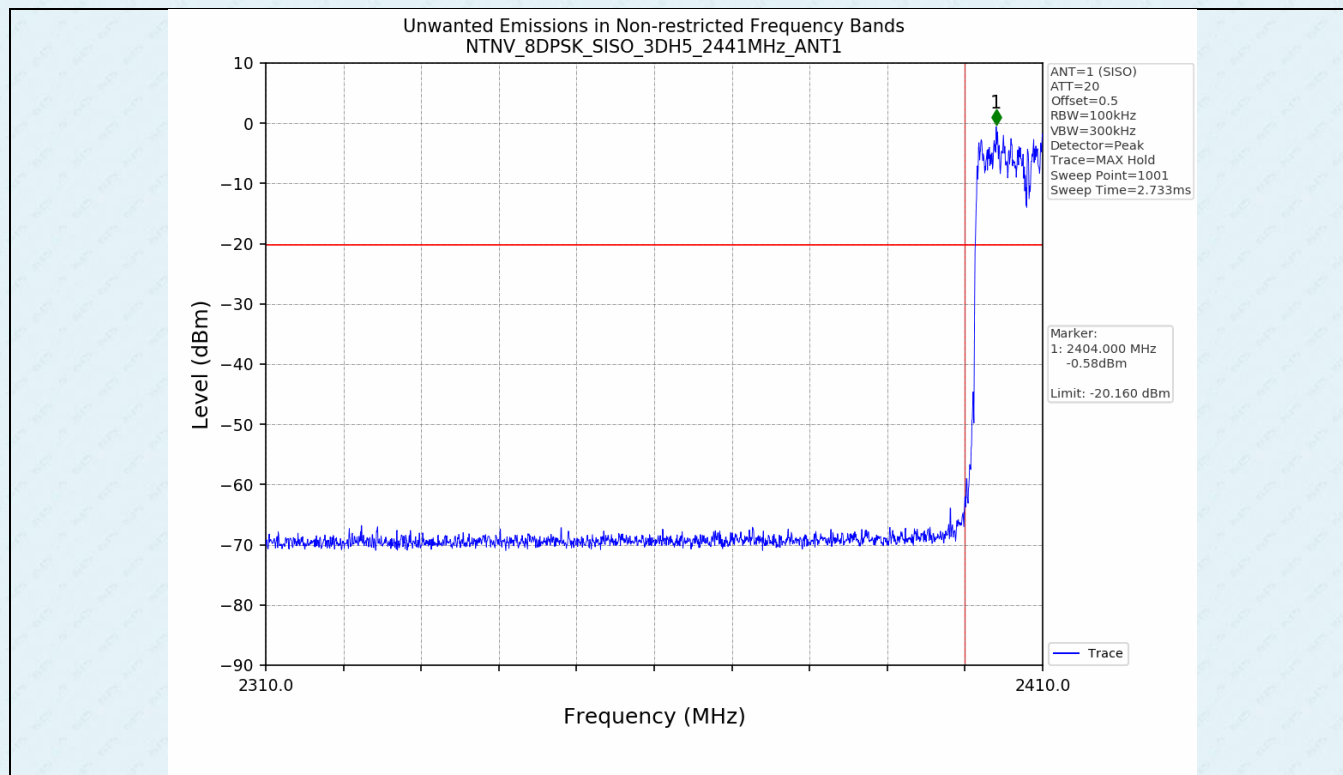
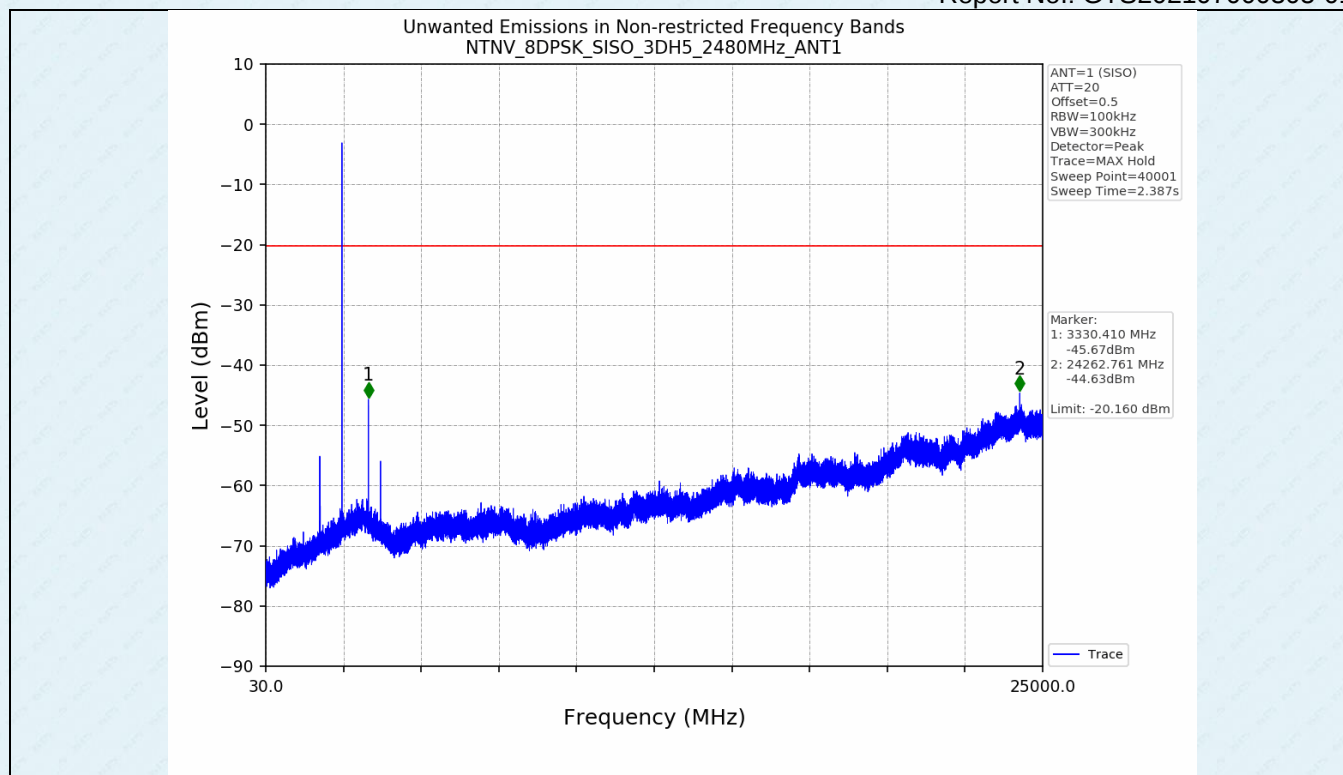


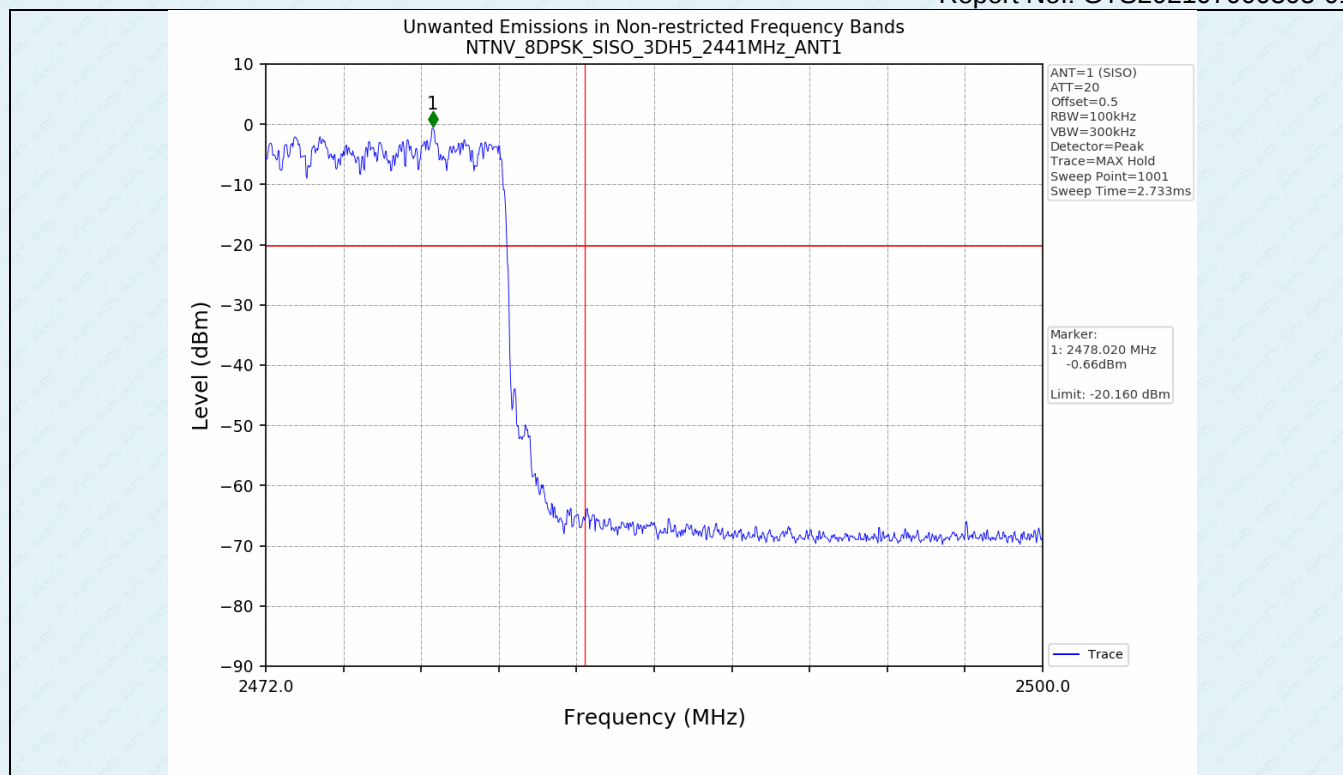










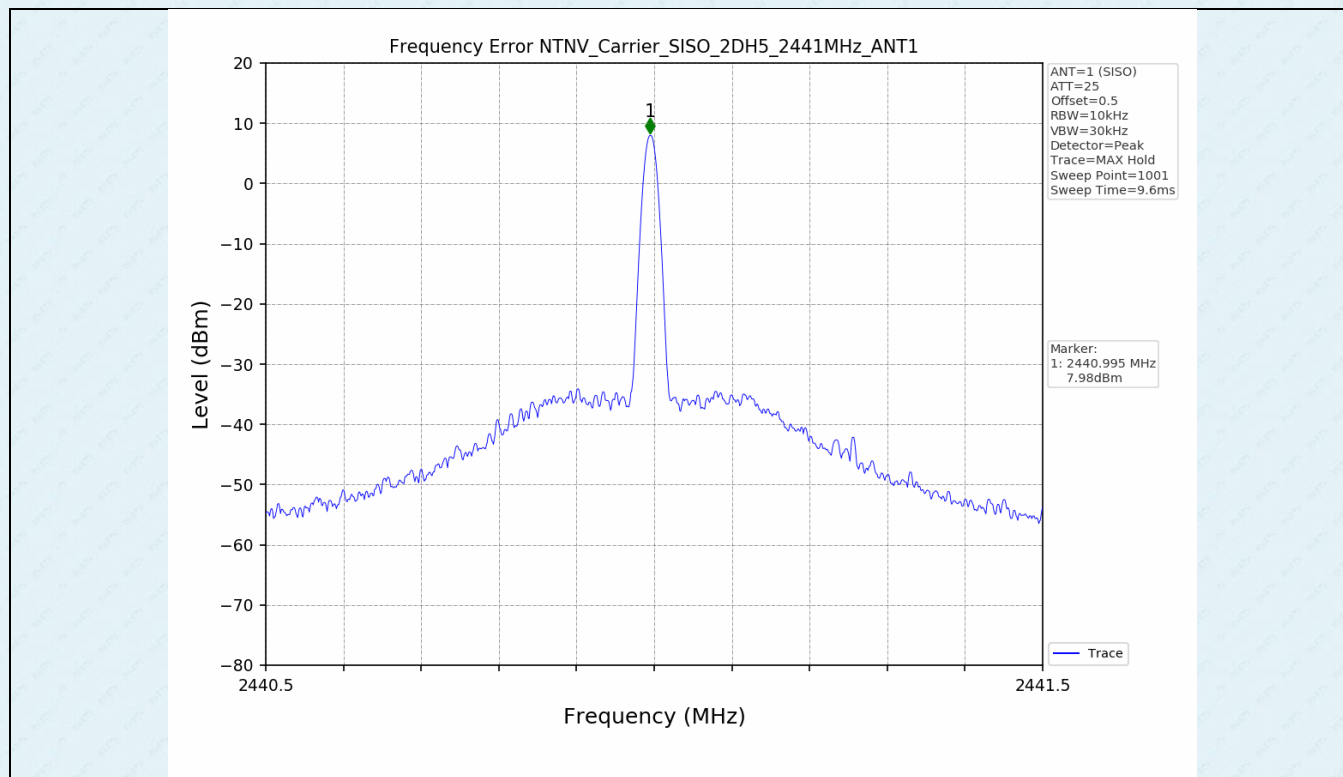
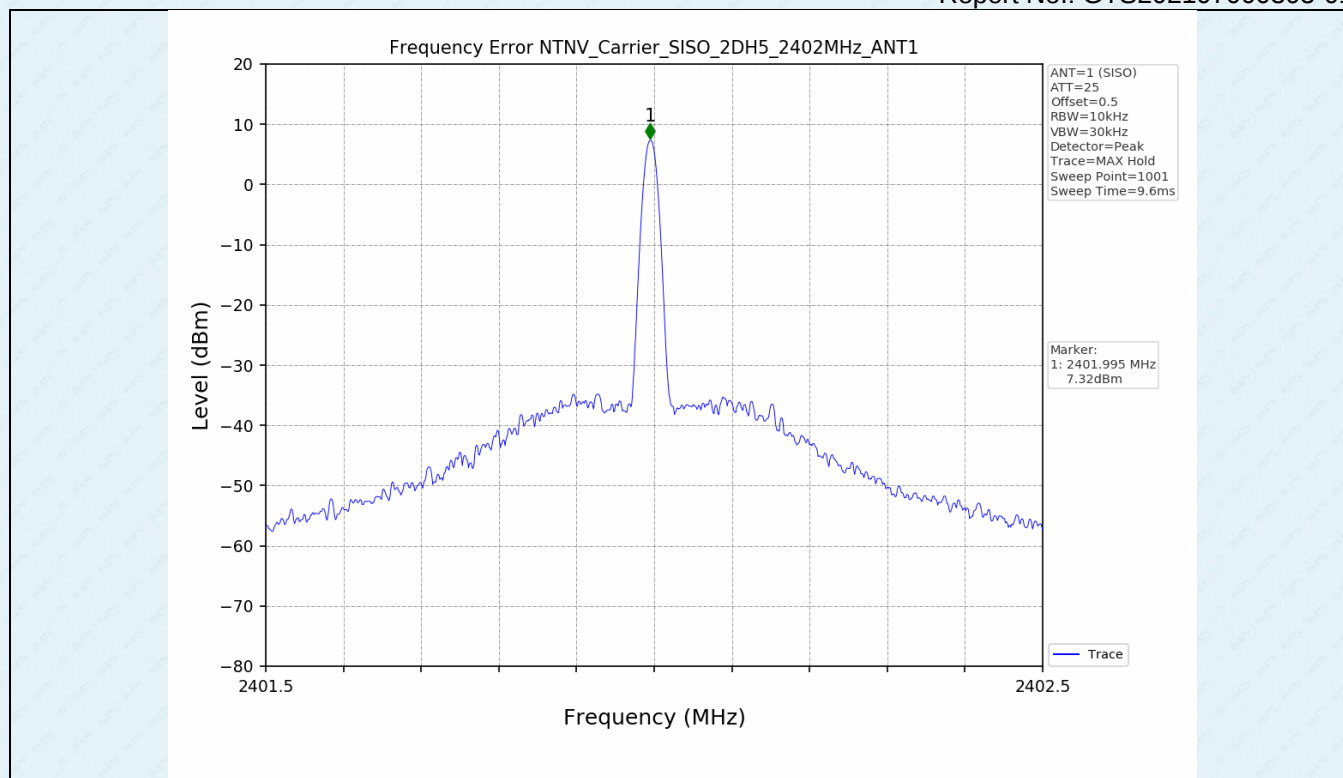


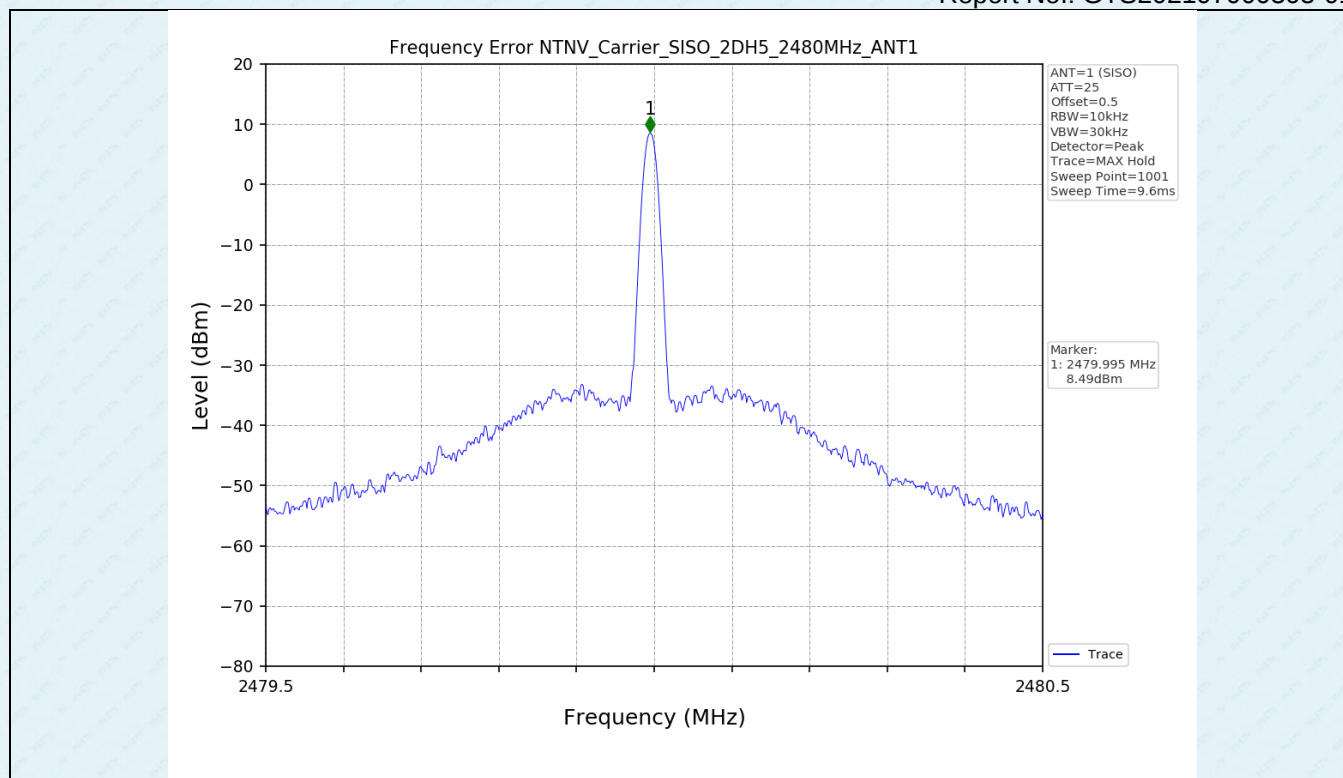
7. Frequency Stability

7.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT	Measured Frequency (MHz)		Verdict
				Test Result	Limit	
Carrier	2402	SISO	1	2401.99	2400-2483.5	PASS
	2441	SISO	1	2440.99	2400-2483.5	PASS
	2480	SISO	1	2479.99	2400-2483.5	PASS

7.2 Test Graph





-----End-----