

Appendix B for SHEM200900746602

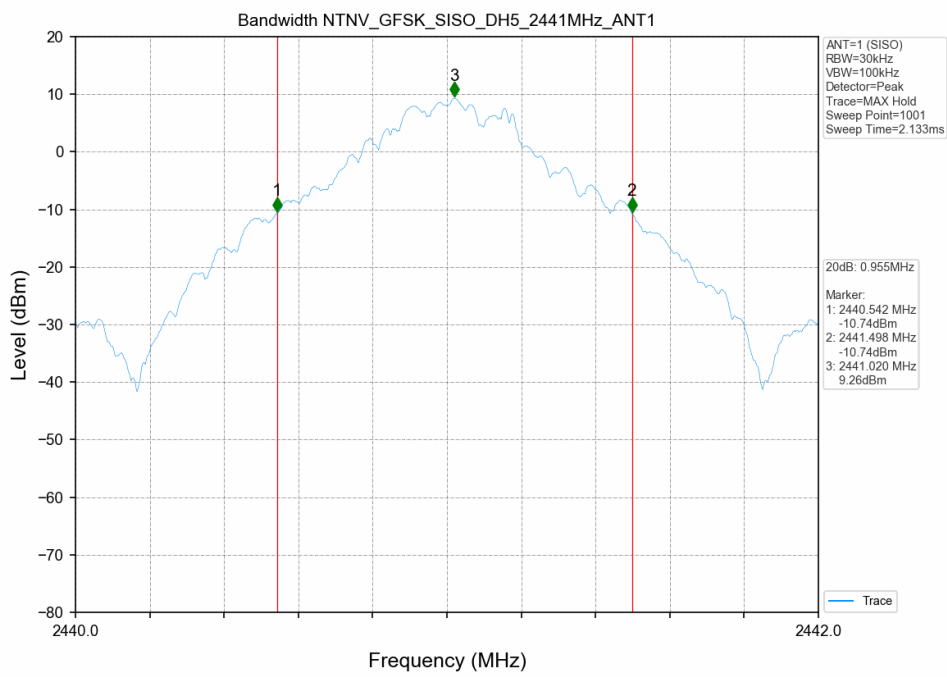
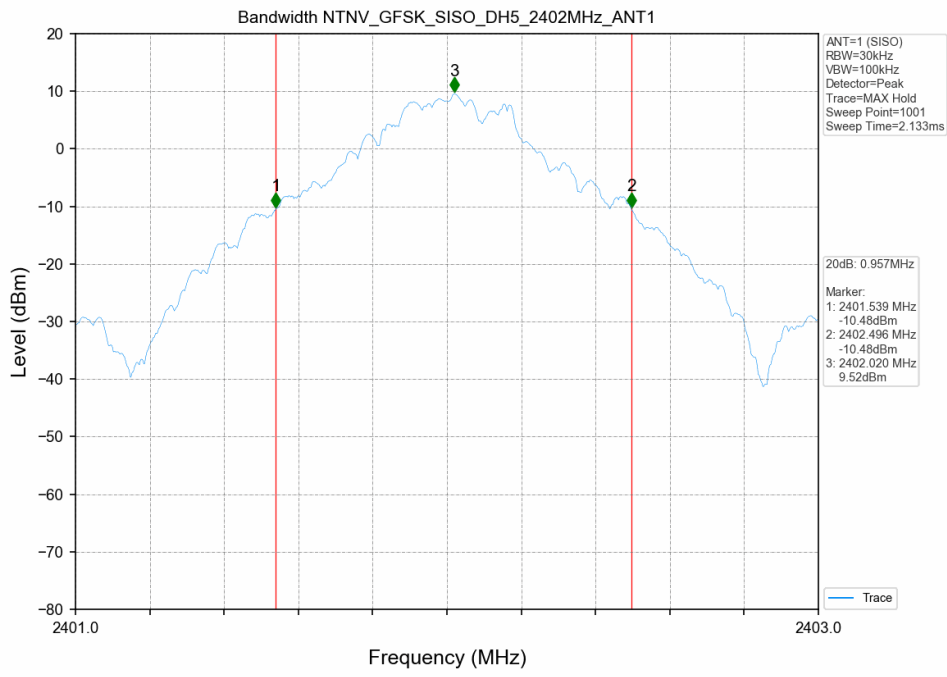
1. Bandwidth

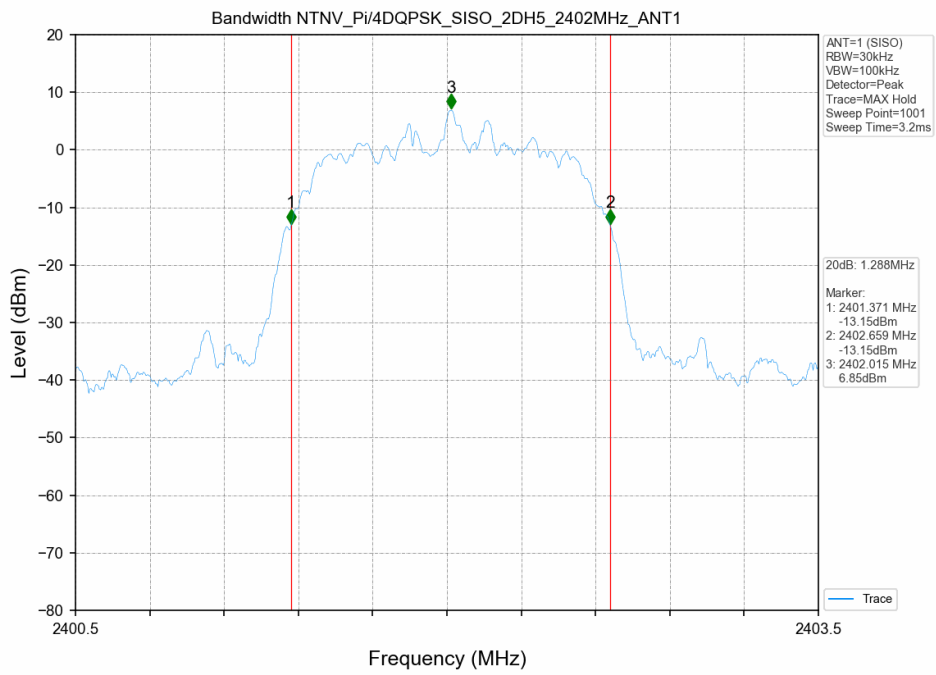
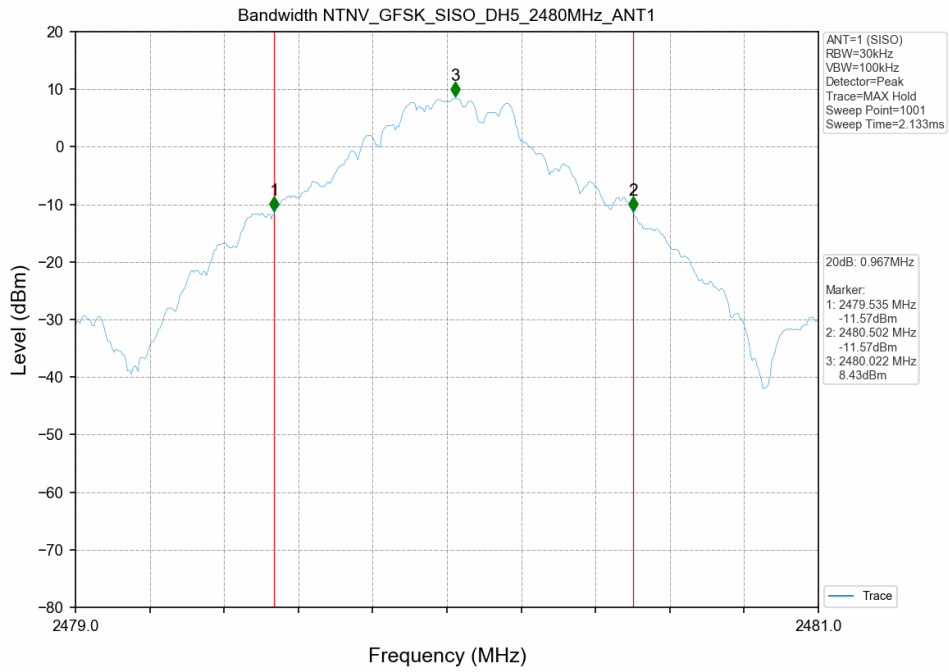
1.1 Test Result

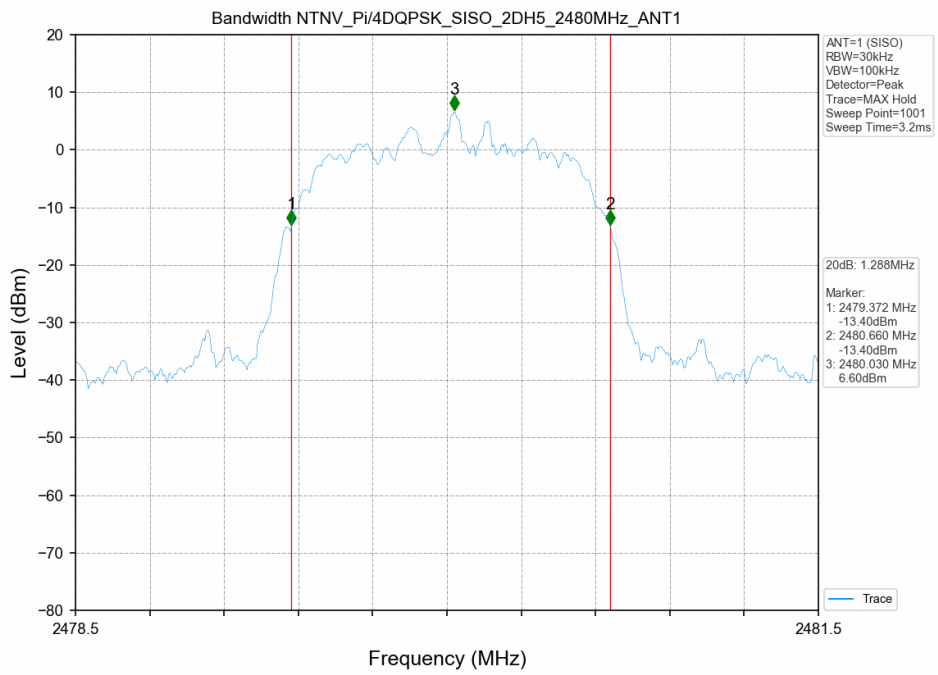
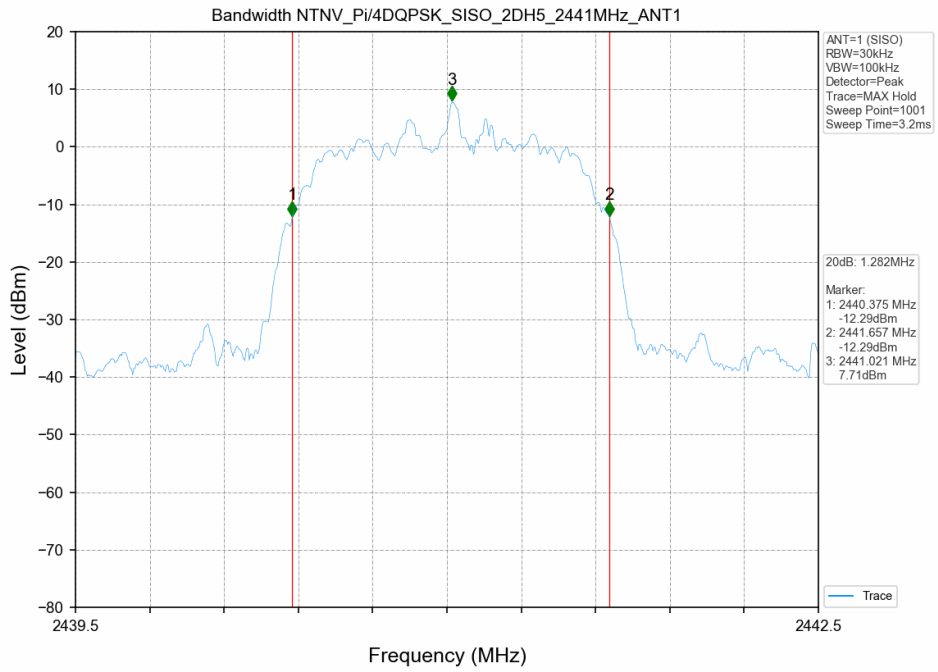
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.957	PASS
	2441	SISO	1	0.955	PASS
	2480	SISO	1	0.967	PASS
Pi/4DQPSK	2402	SISO	1	1.288	PASS
	2441	SISO	1	1.282	PASS
	2480	SISO	1	1.288	PASS
8DPSK	2402	SISO	1	1.294	PASS
	2441	SISO	1	1.295	PASS
	2480	SISO	1	1.292	PASS

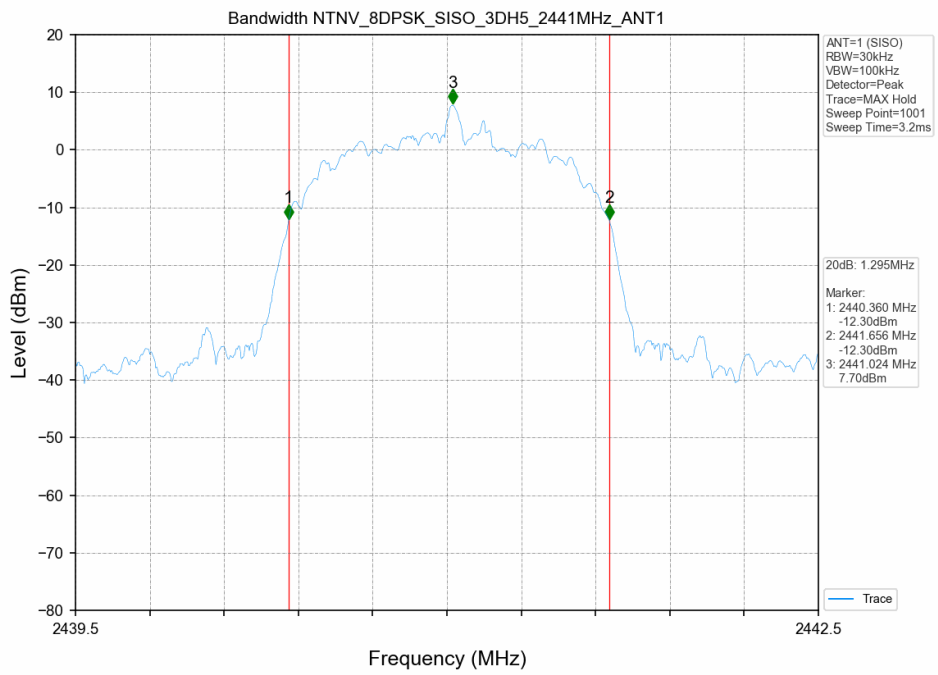
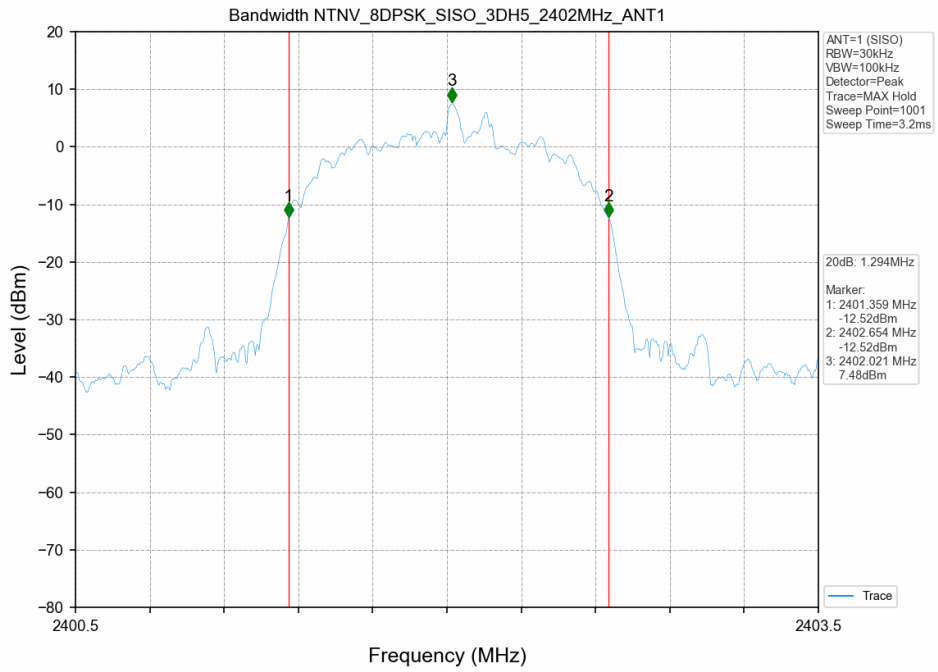
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.900	Only for Report Use
	2441	SISO	1	0.896	Only for Report Use
	2480	SISO	1	0.898	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.178	Only for Report Use
	2441	SISO	1	1.176	Only for Report Use
	2480	SISO	1	1.178	Only for Report Use
8DPSK	2402	SISO	1	1.181	Only for Report Use
	2441	SISO	1	1.183	Only for Report Use
	2480	SISO	1	1.183	Only for Report Use

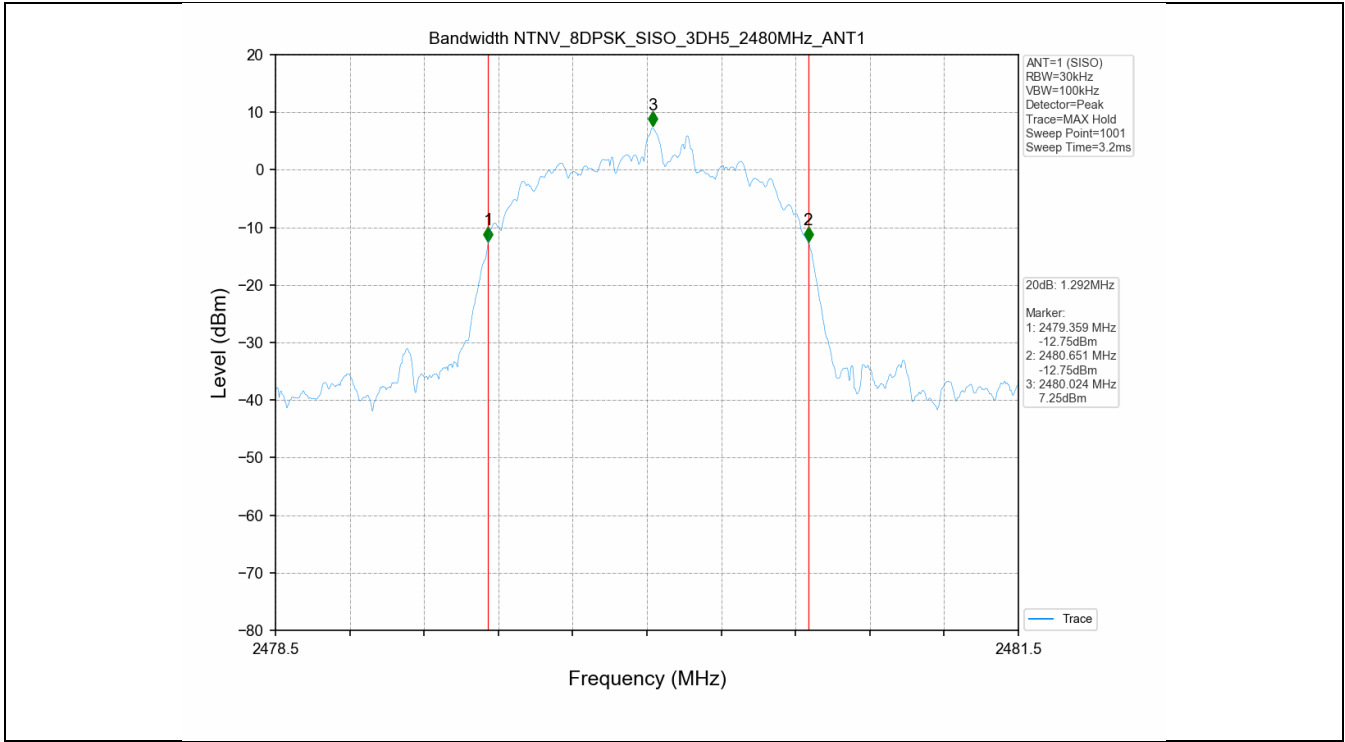
1.2 Test Graph - 20dB Bandwidth



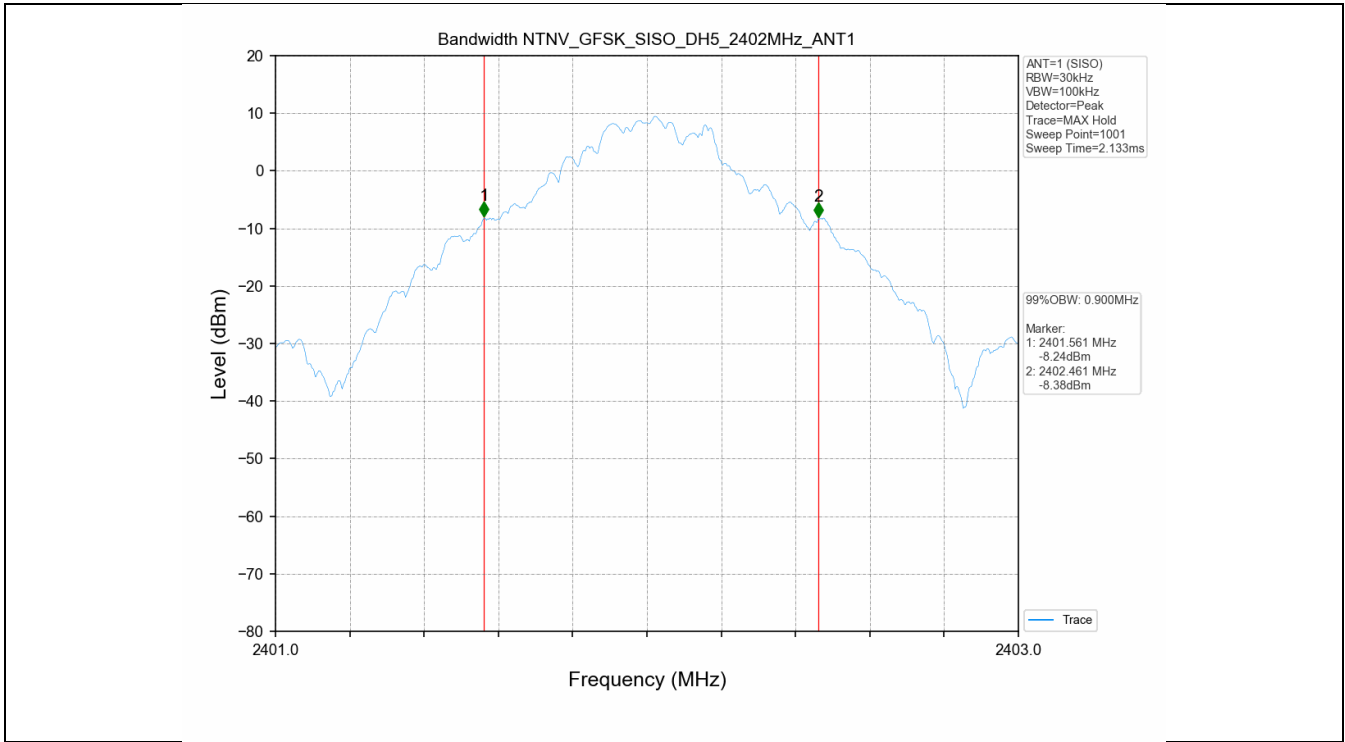


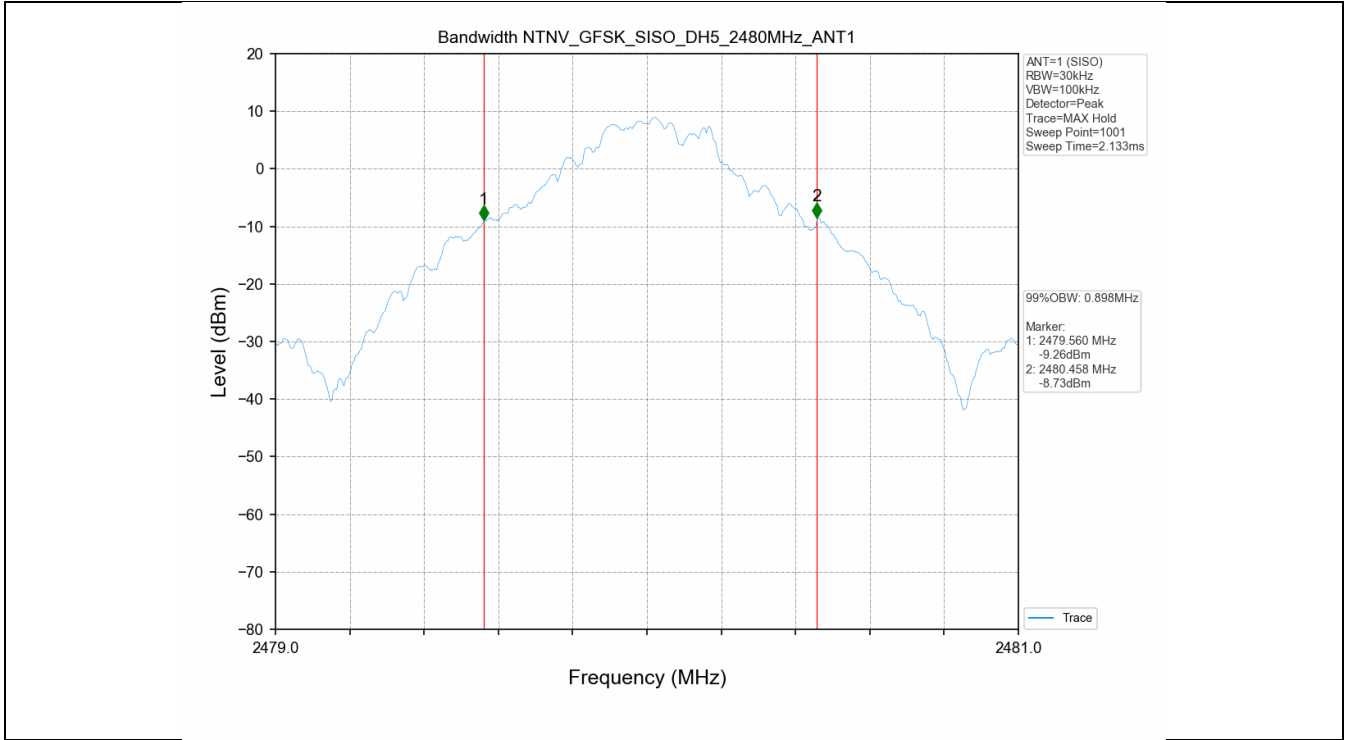
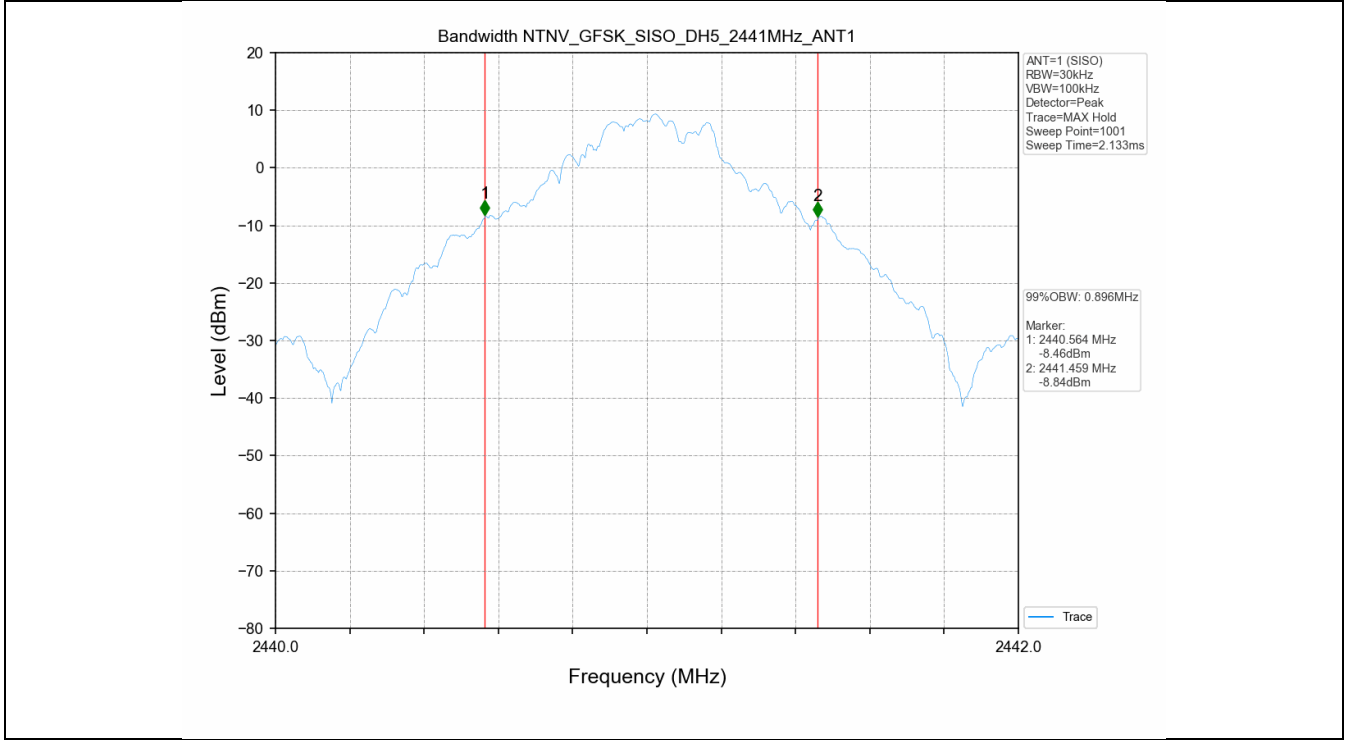


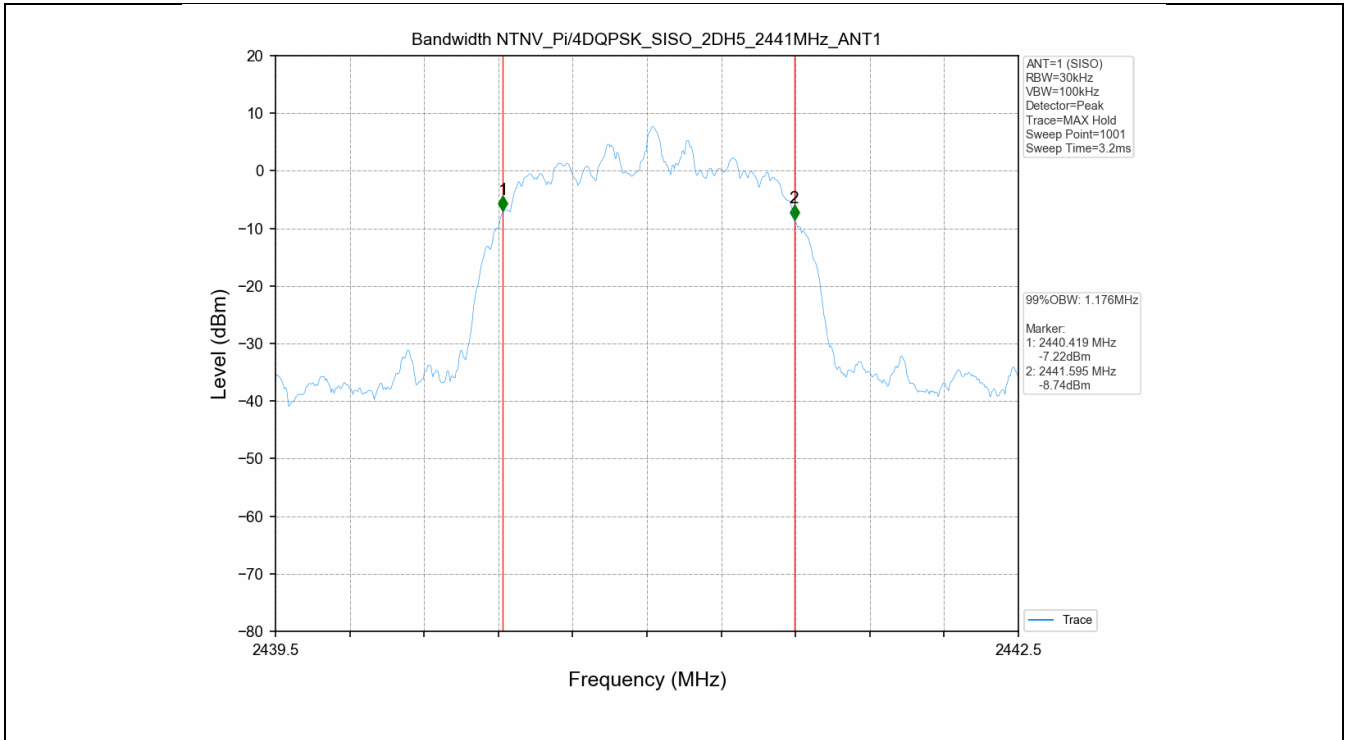
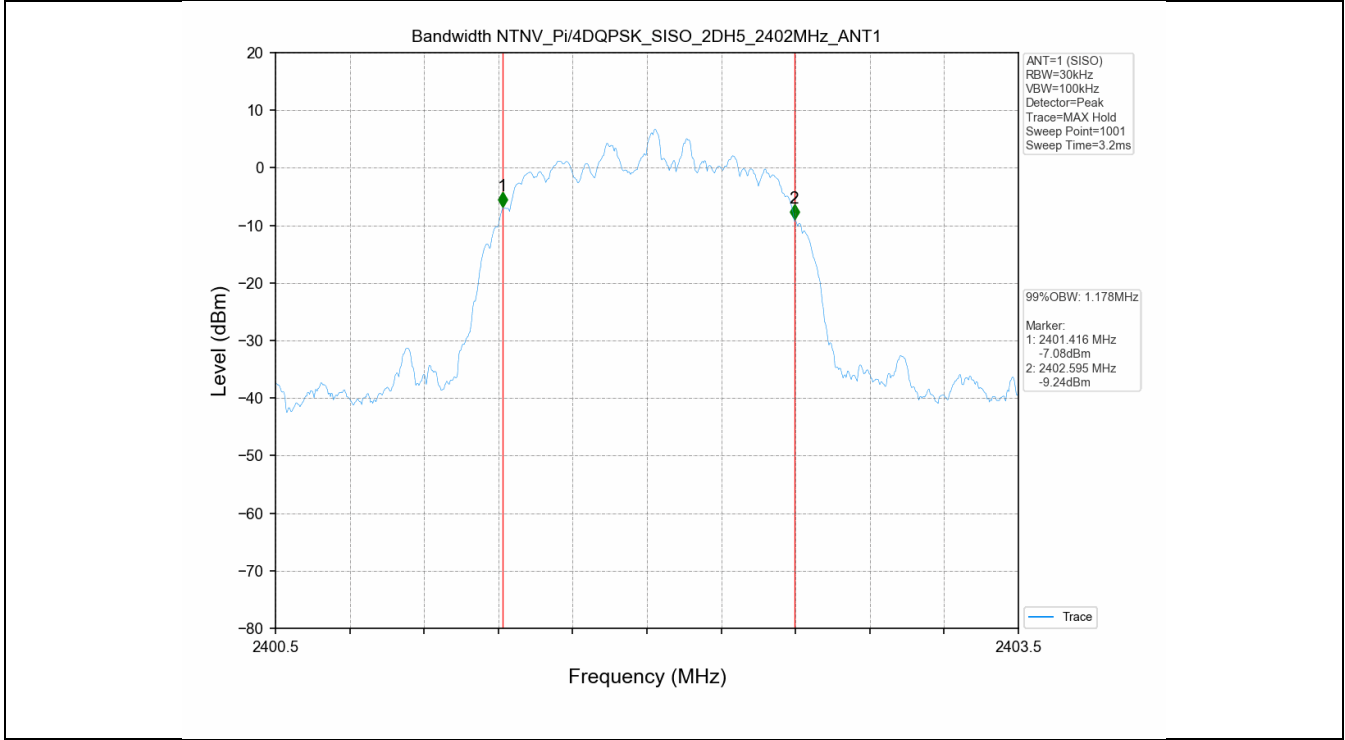


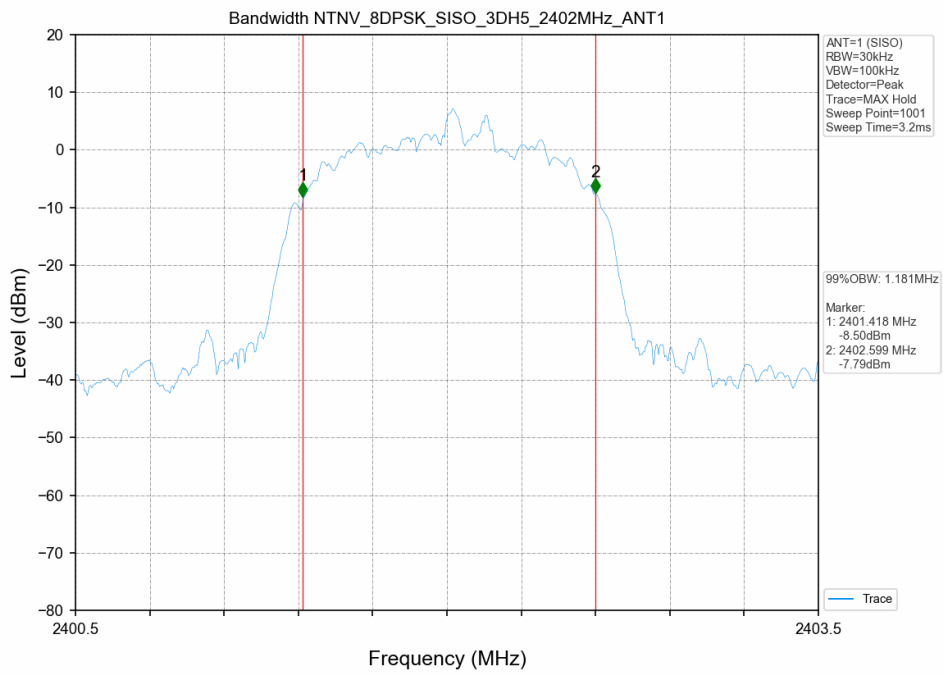
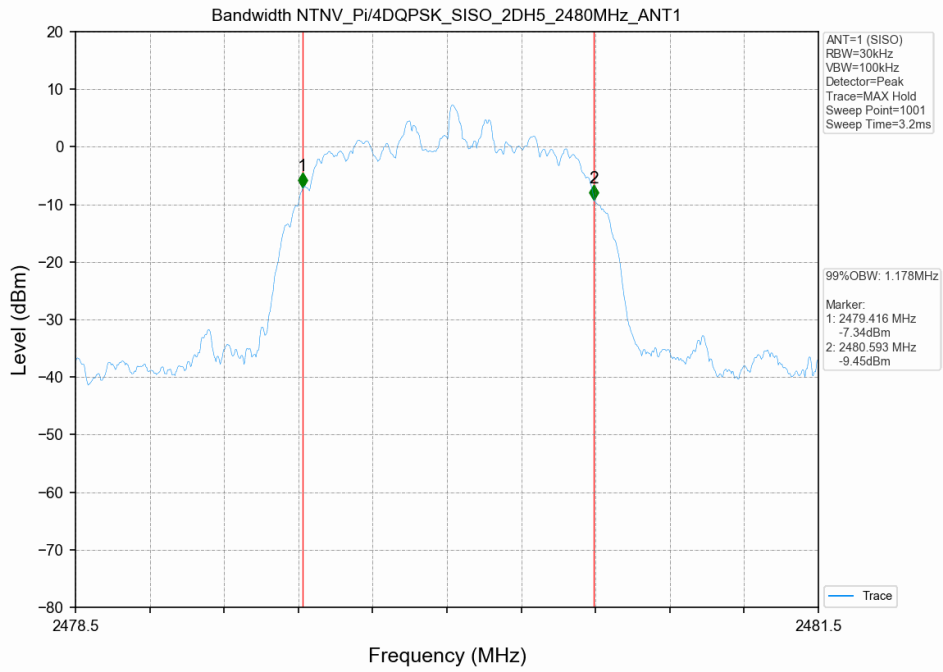


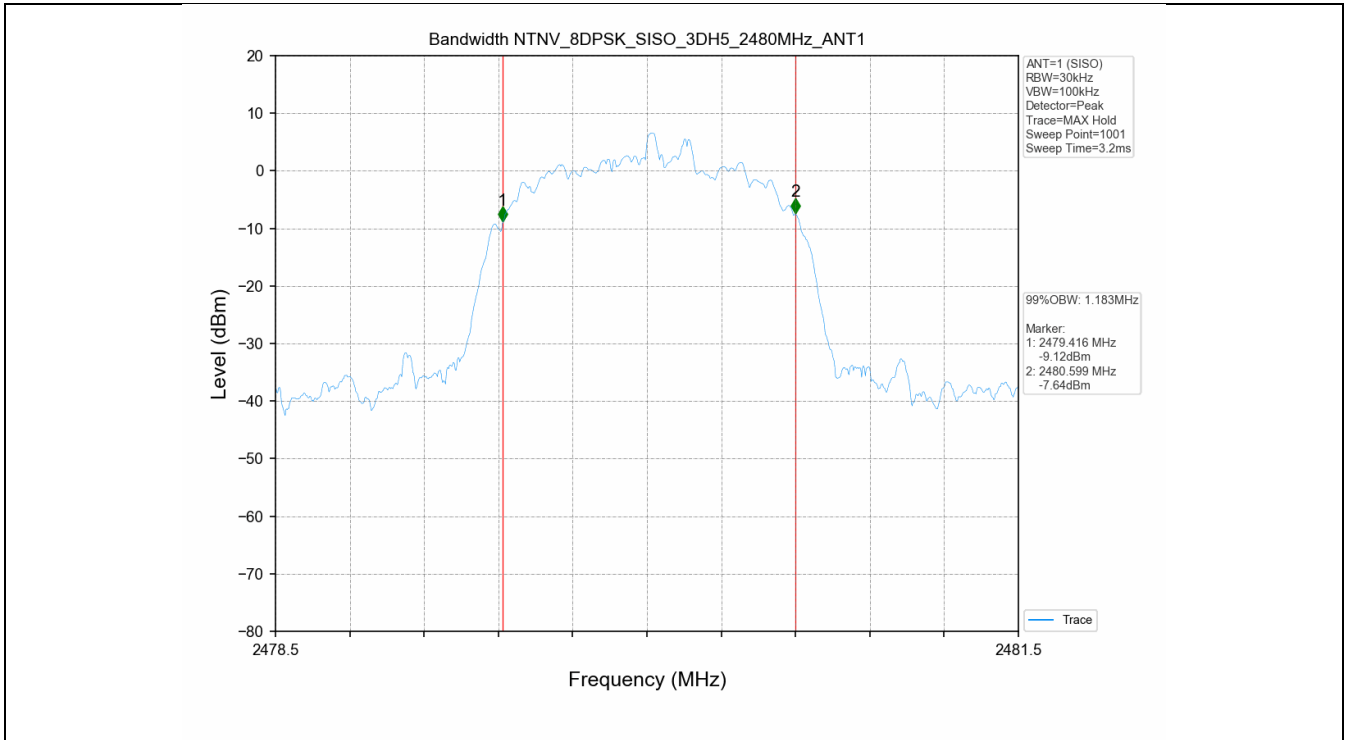
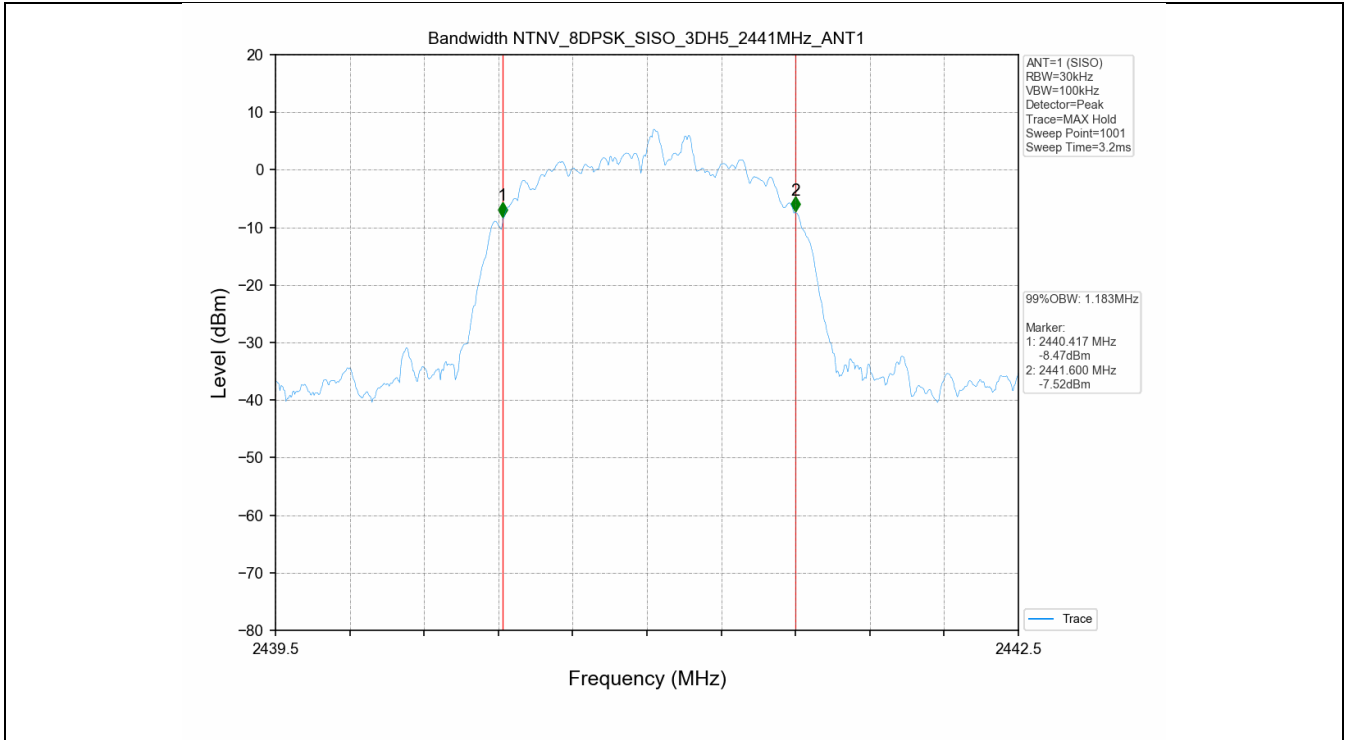
1.3 Test Graph - 99% Occupied Bandwidth









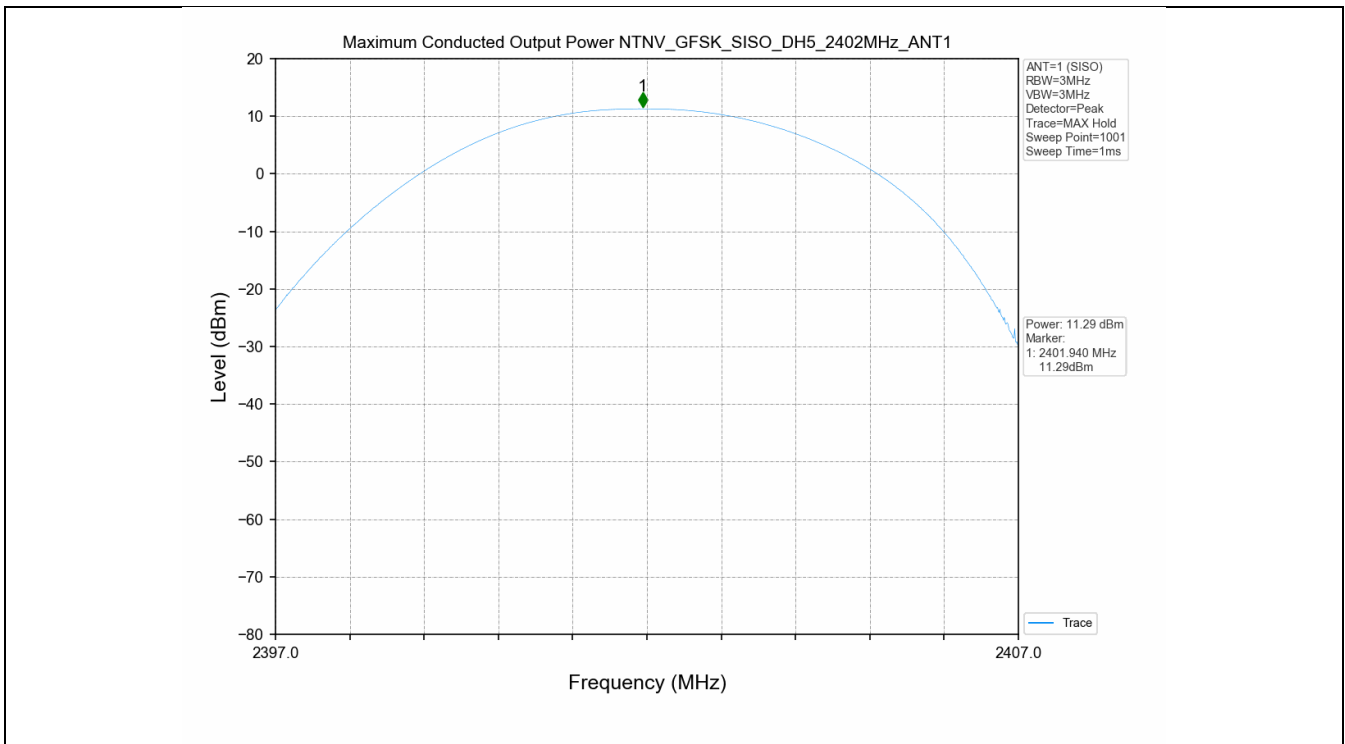


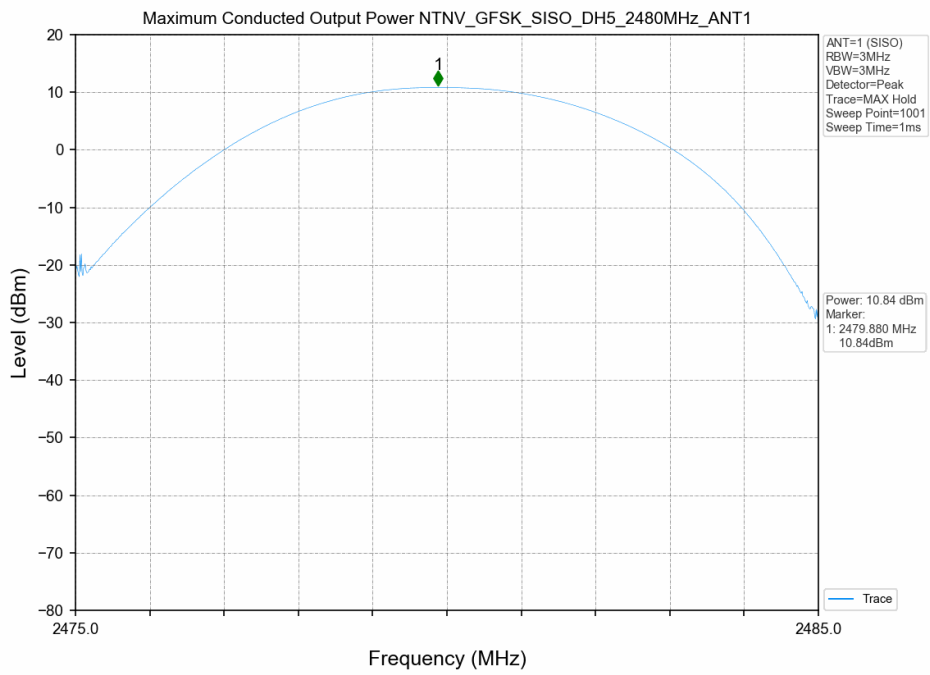
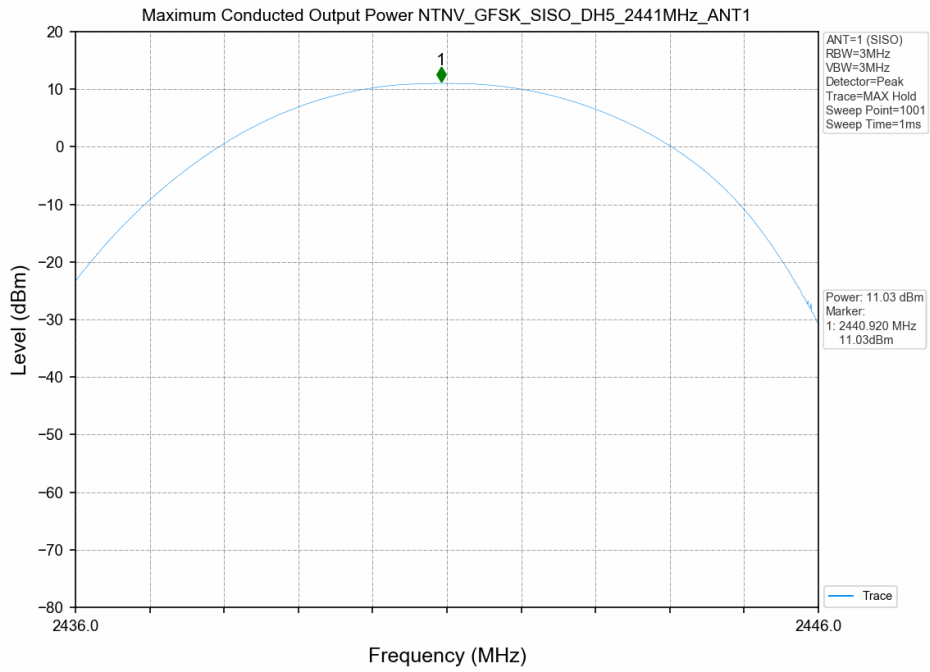
2. Maximum Conducted Output Power

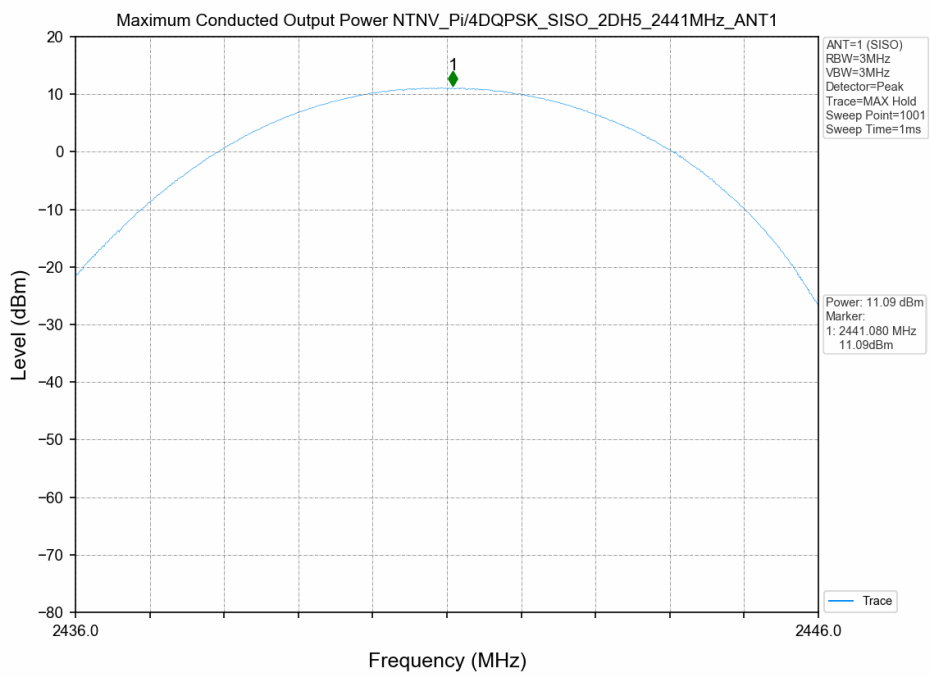
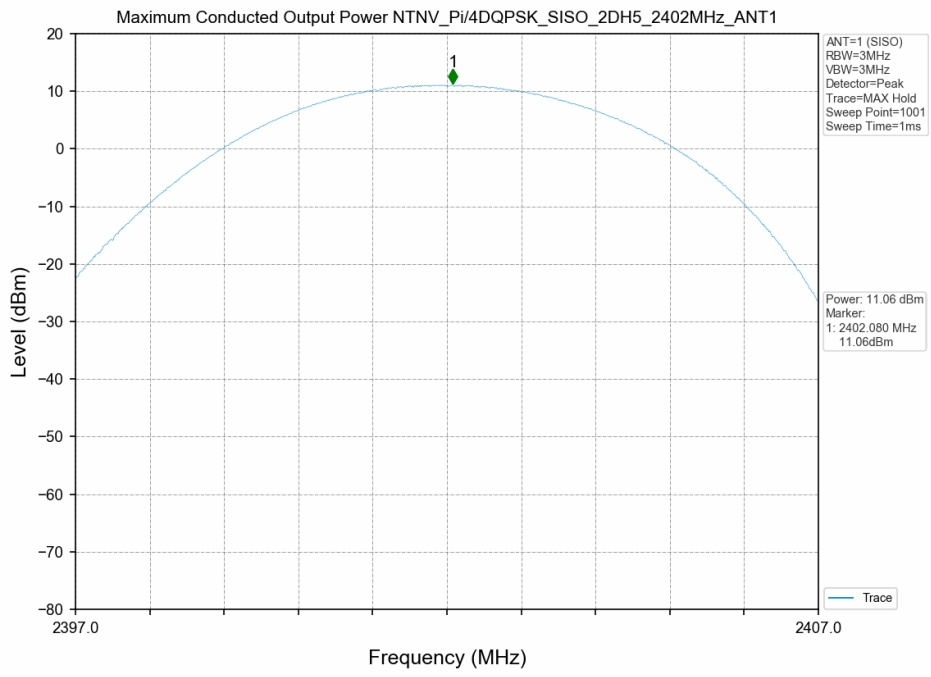
2.1 Test Result

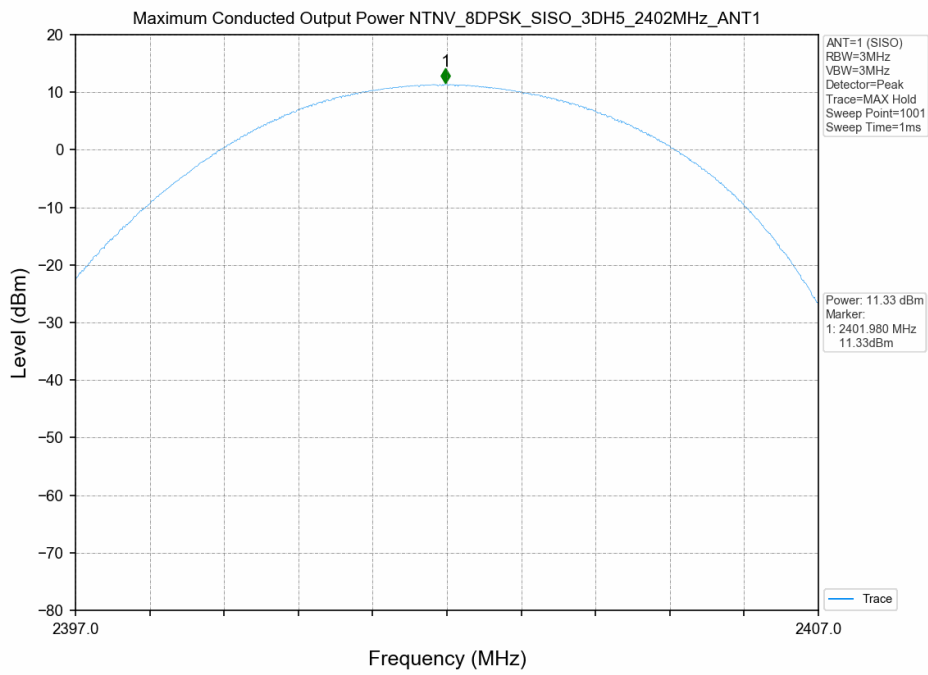
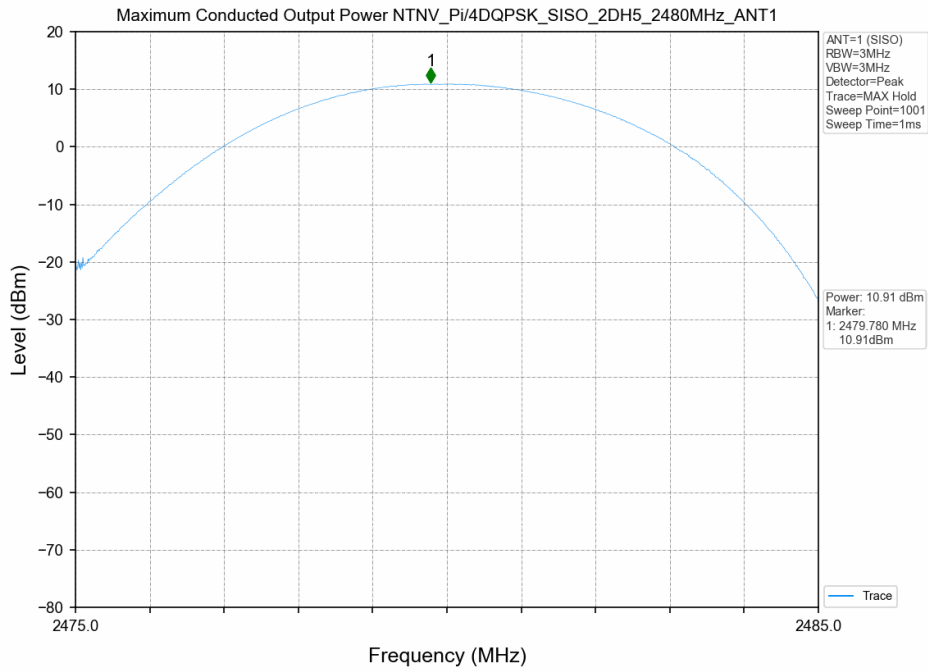
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	11.29	30	PASS
	2441	SISO	11.03	30	PASS
	2480	SISO	10.84	30	PASS
Pi/4DQPSK	2402	SISO	11.06	20.97	PASS
	2441	SISO	11.09	20.97	PASS
	2480	SISO	10.91	20.97	PASS
8DPSK	2402	SISO	11.33	20.97	PASS
	2441	SISO	11.43	20.97	PASS
	2480	SISO	11.15	20.97	PASS

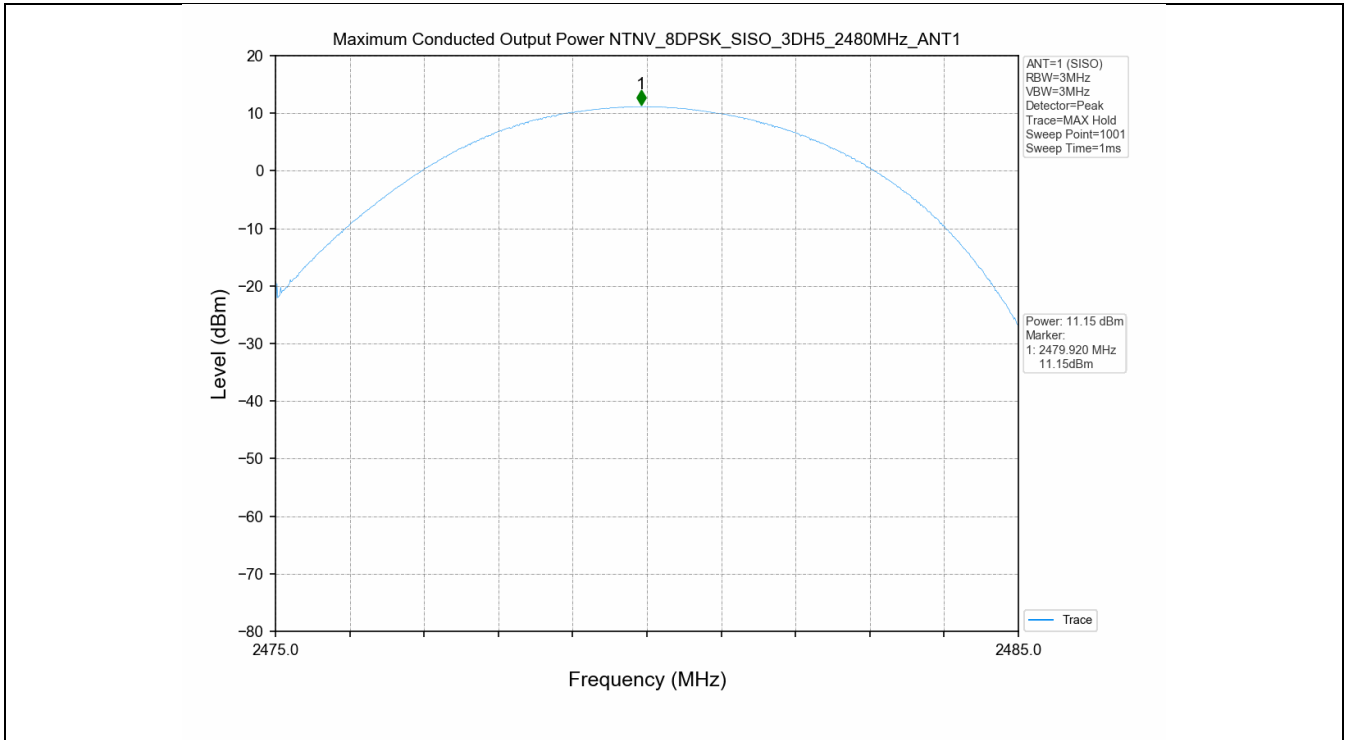
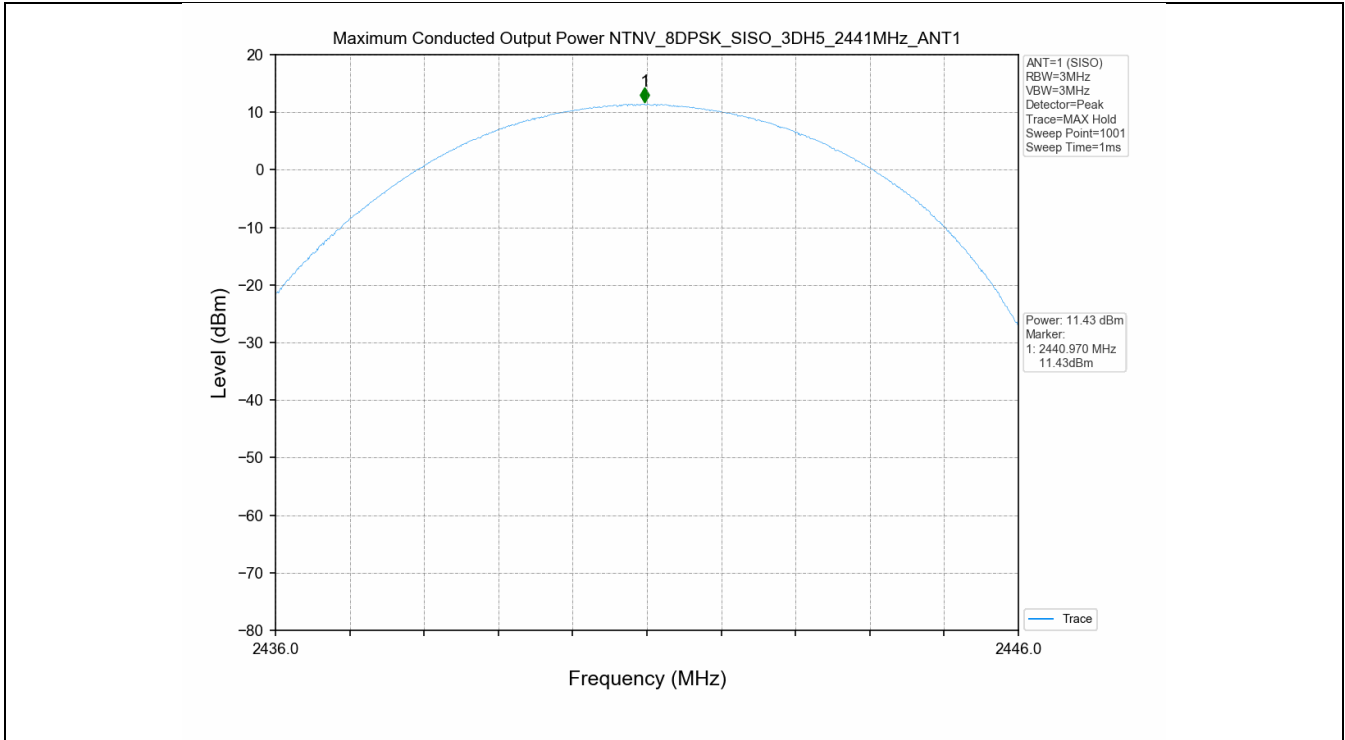
2.2 Test Graph









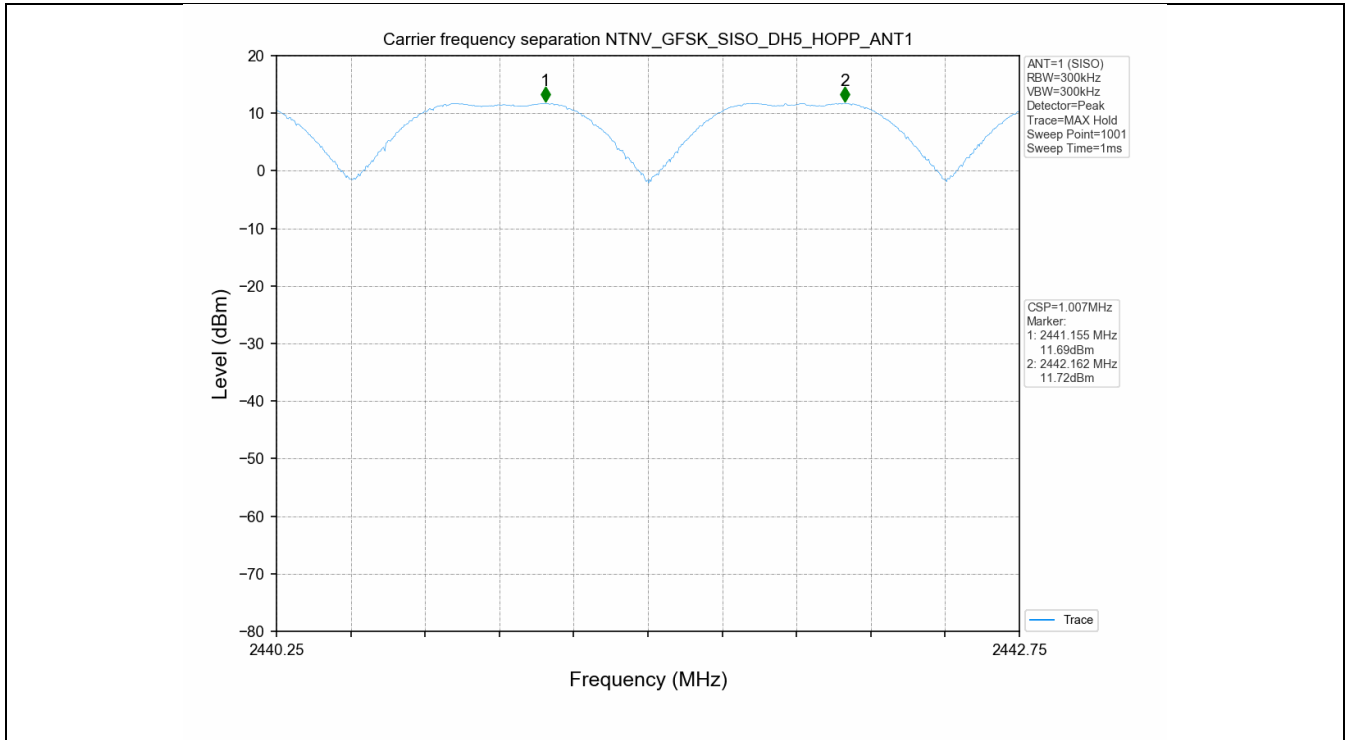


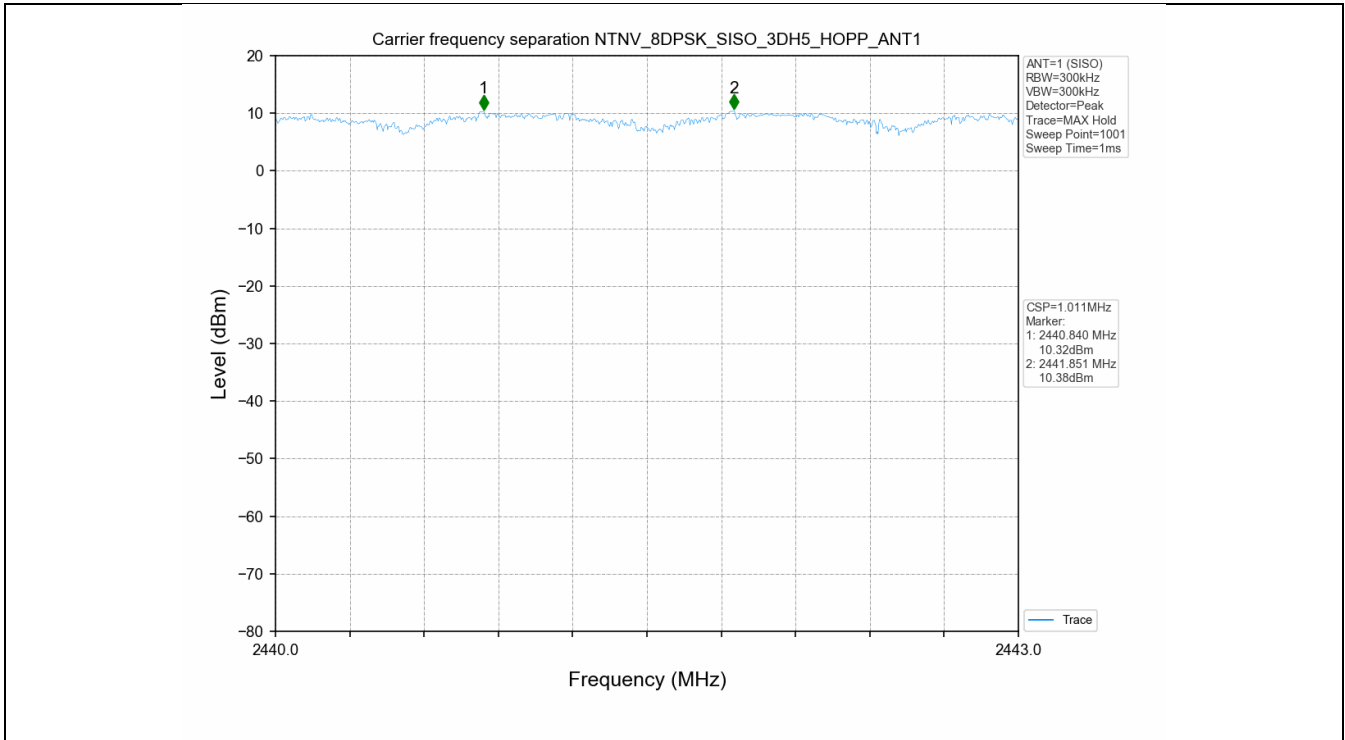
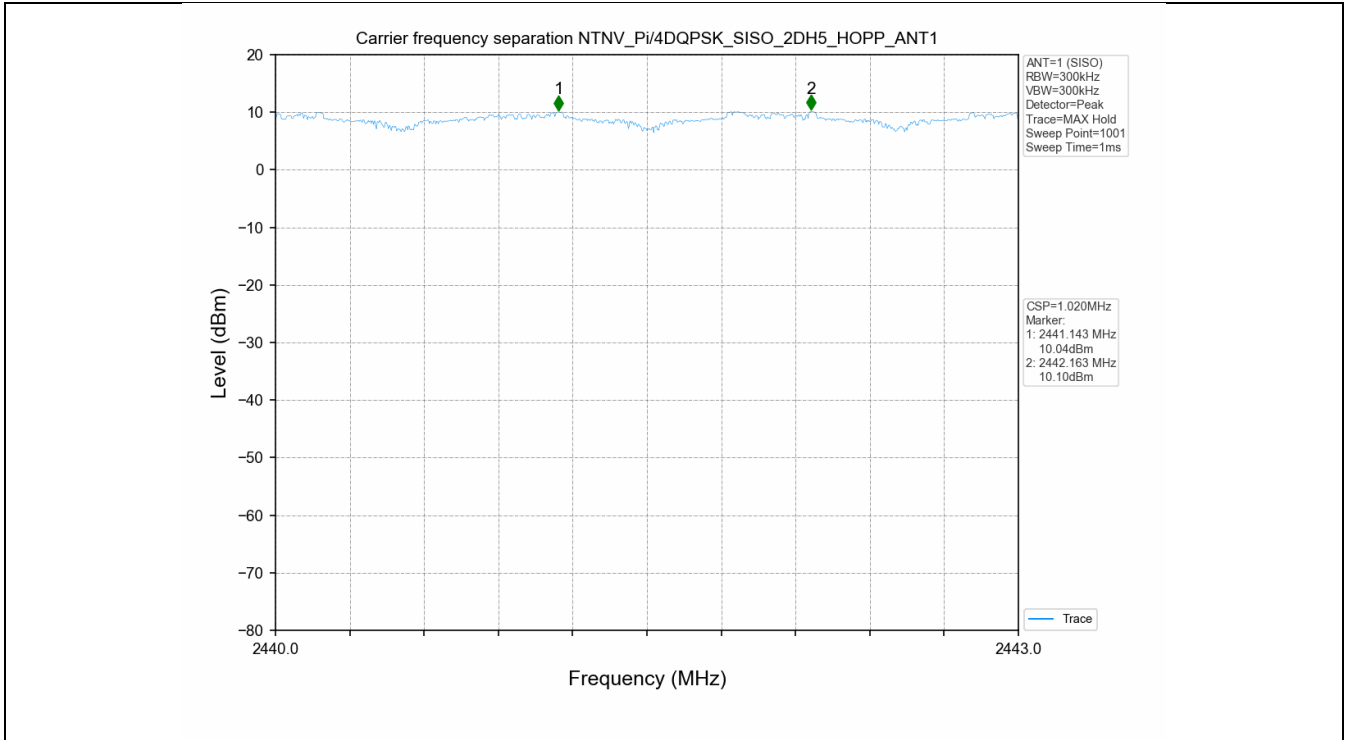
3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.007	0.967	≥ 0.967	PASS
Pi/4DQPSK	SISO	1	1.020	1.288	≥ 0.859	PASS
8DPSK	SISO	1	1.011	1.295	≥ 0.865	PASS

3.2 Test Graph



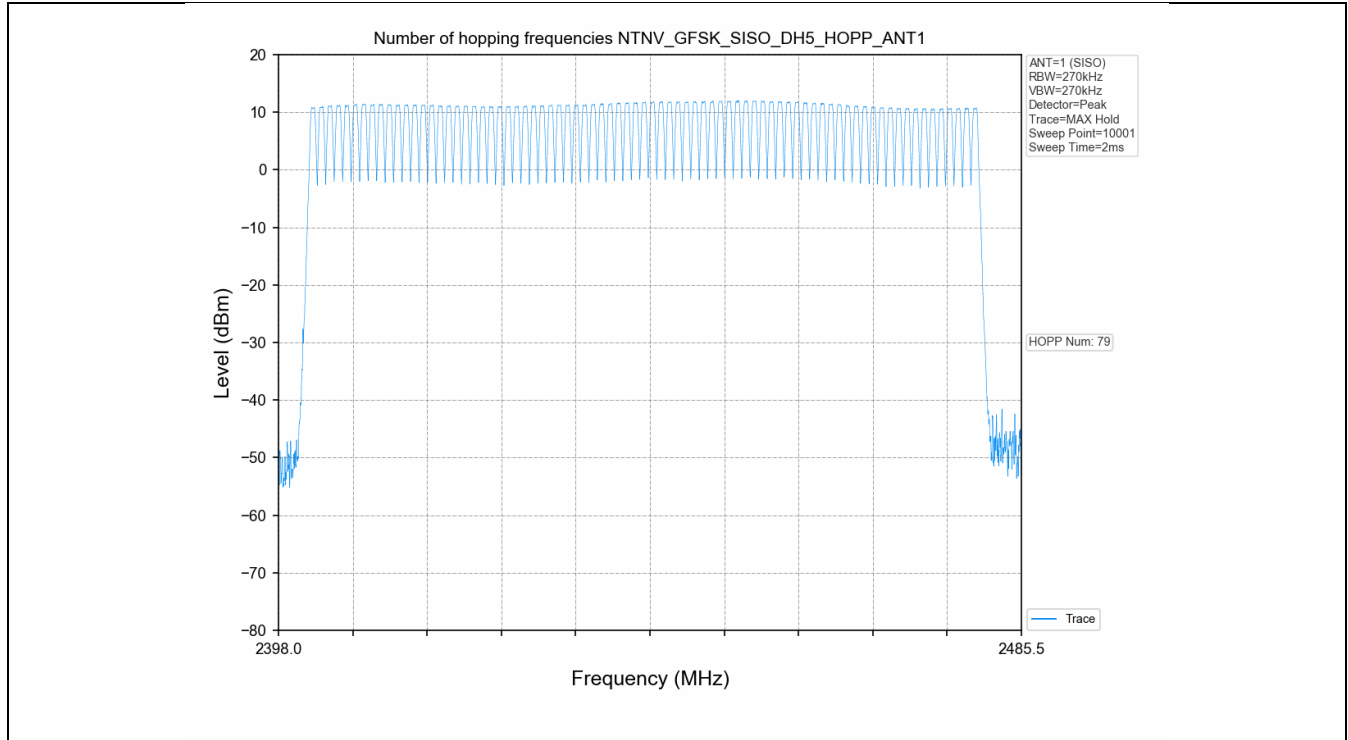


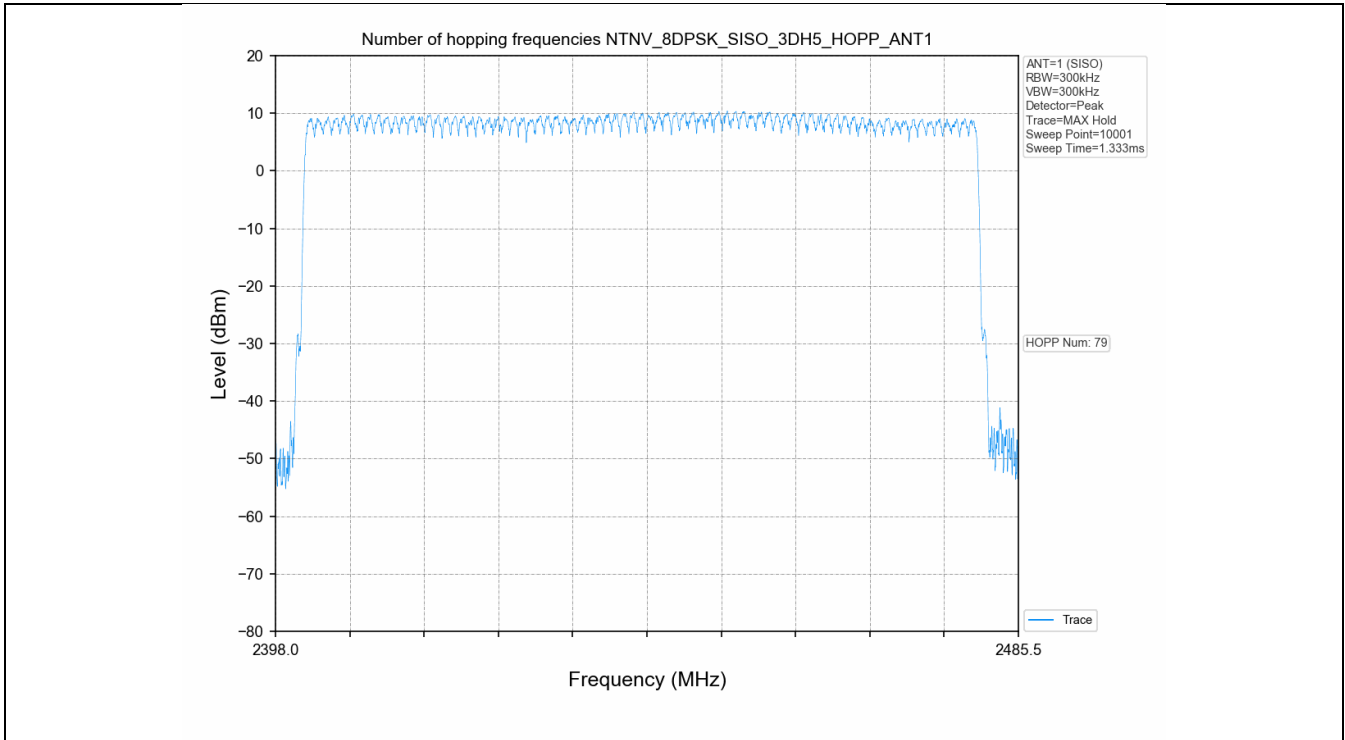
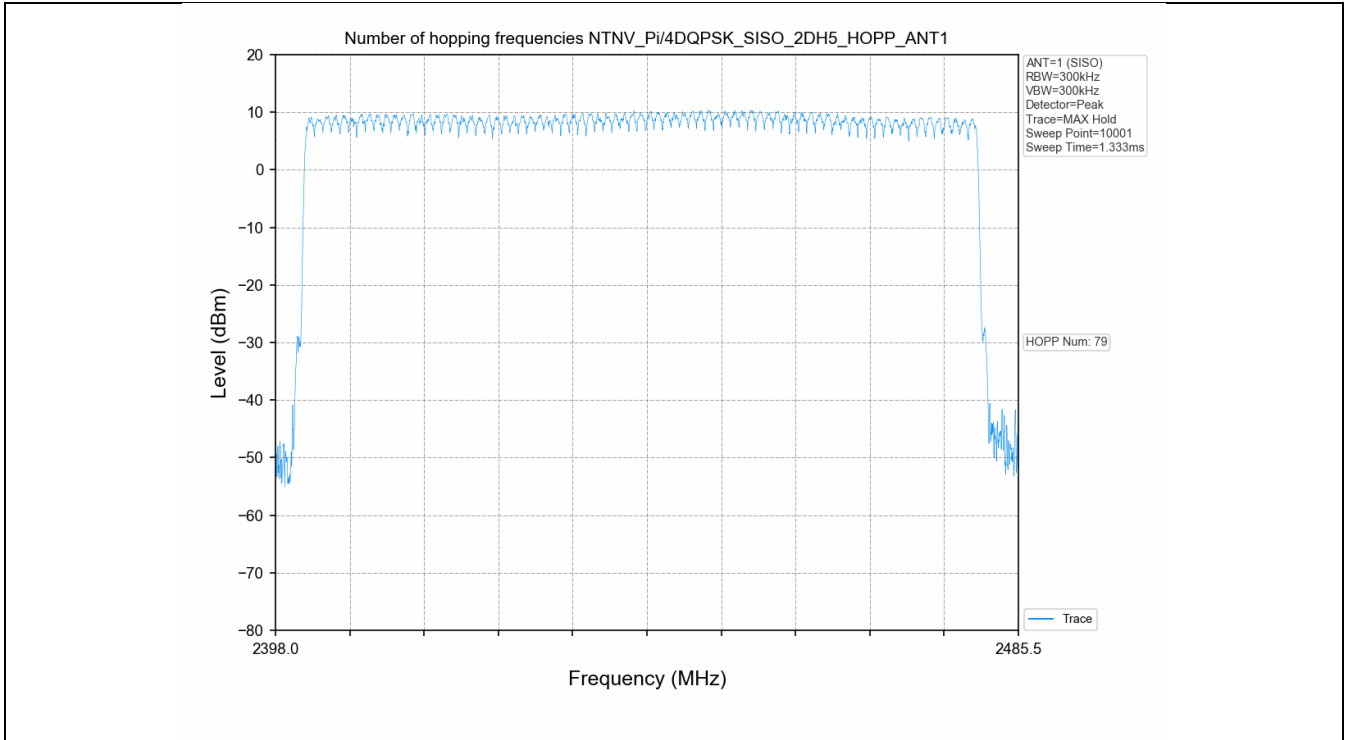
4. Number of hopping frequencies

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



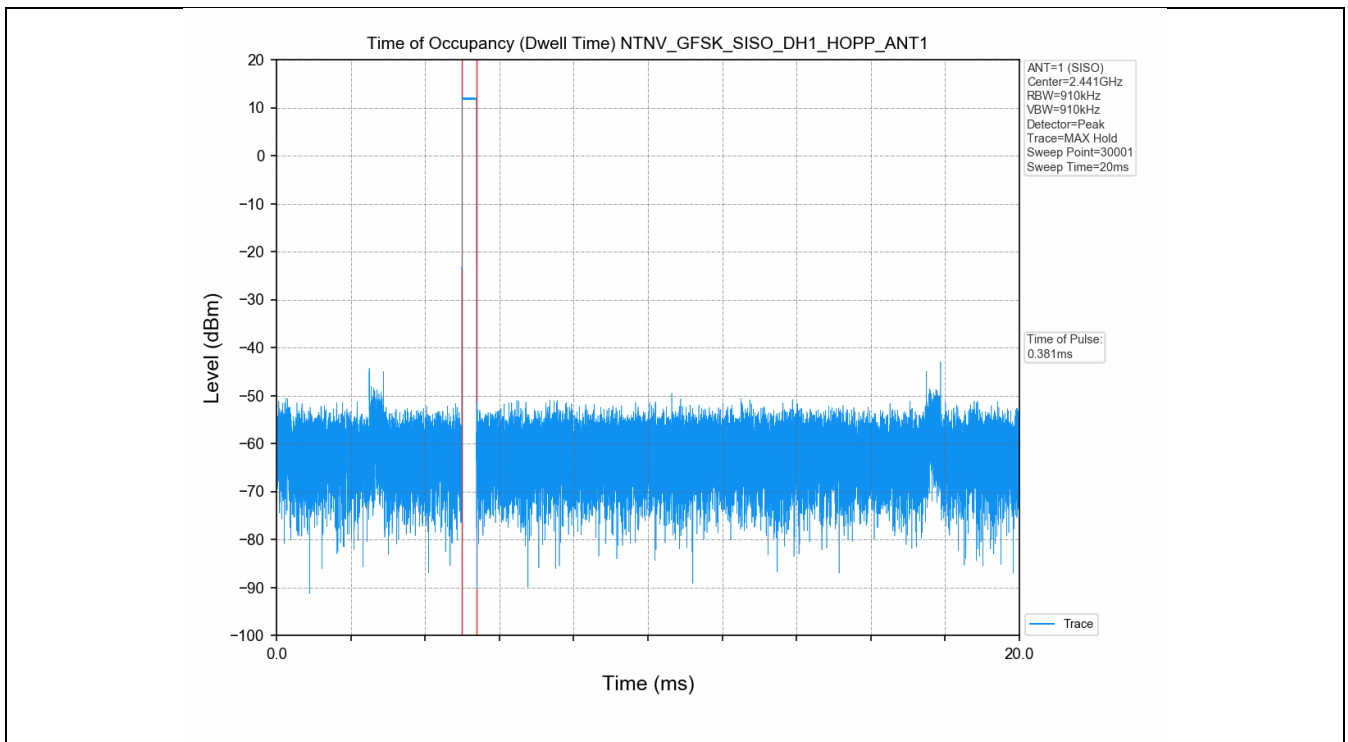


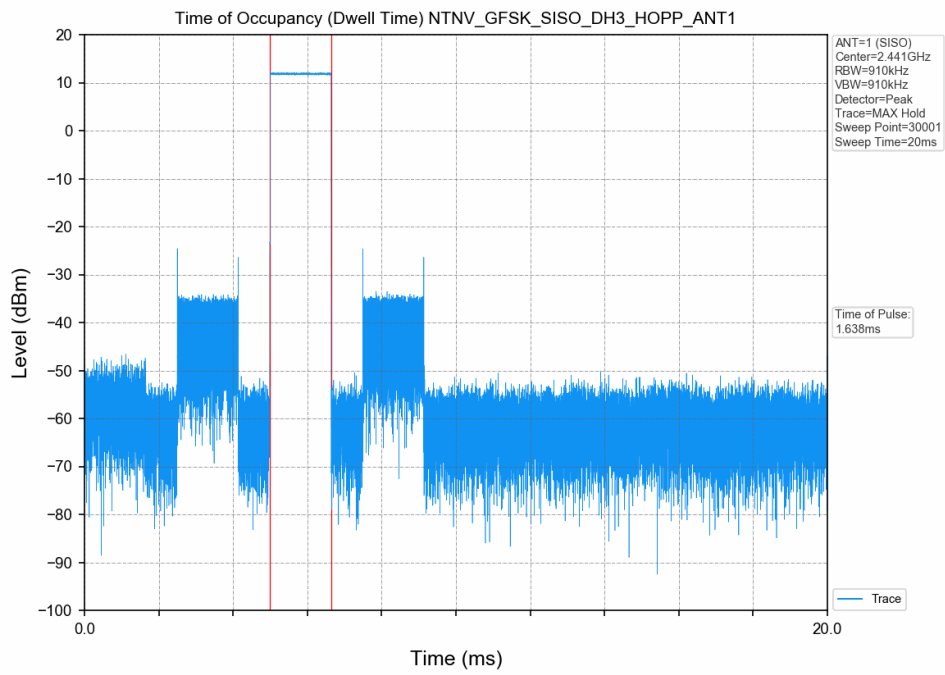
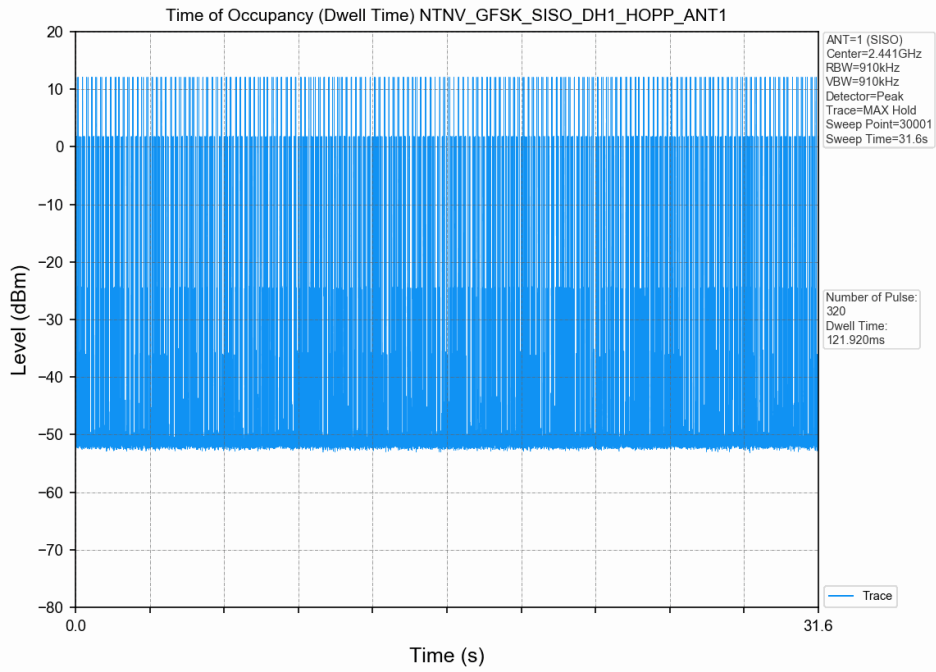
5. Time of Occupancy (Dwell Time)

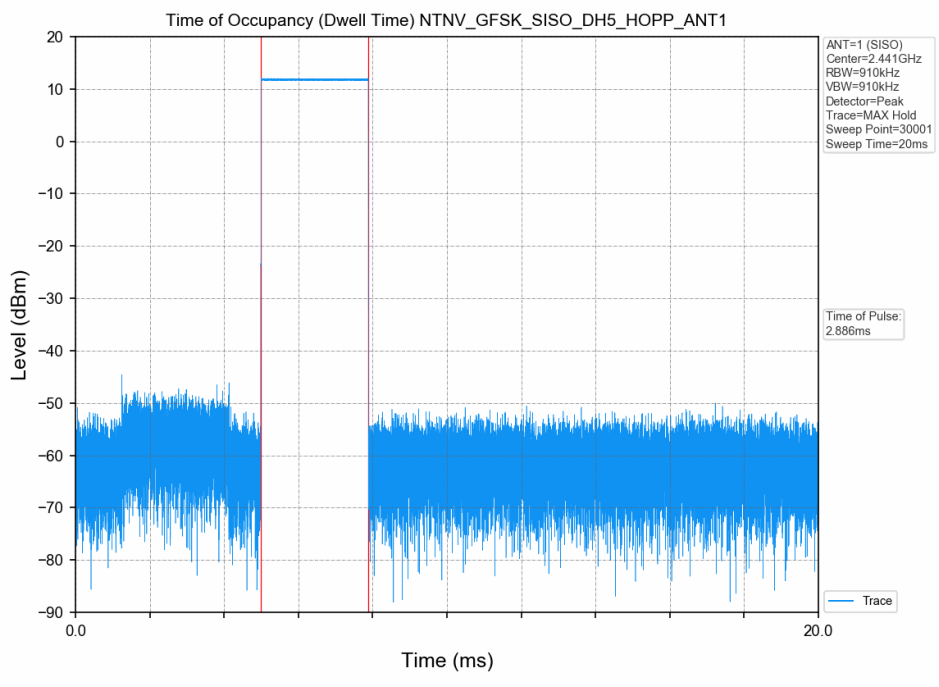
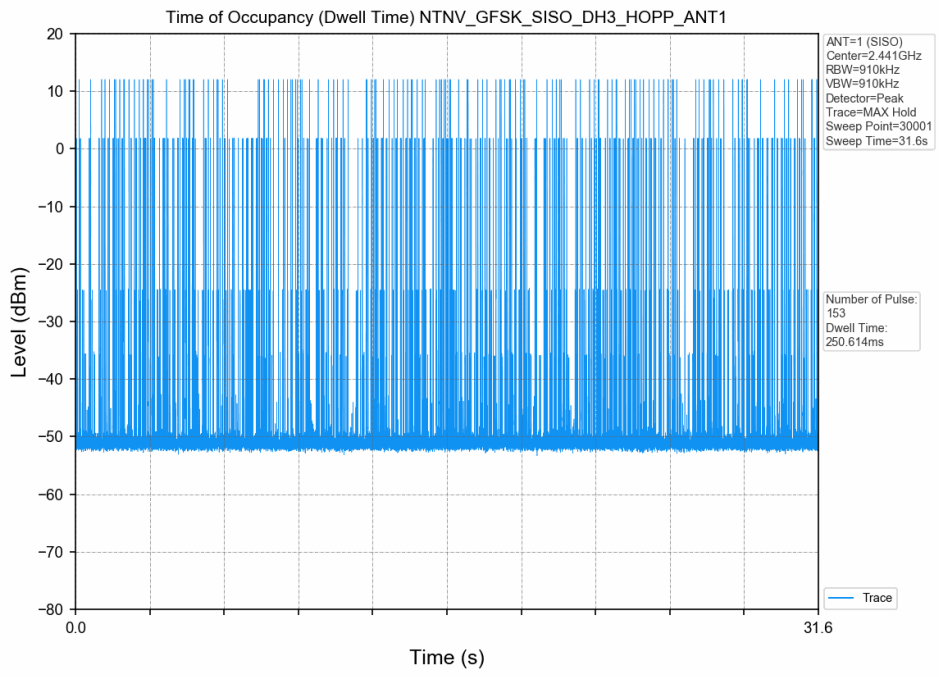
5.1 Test Result

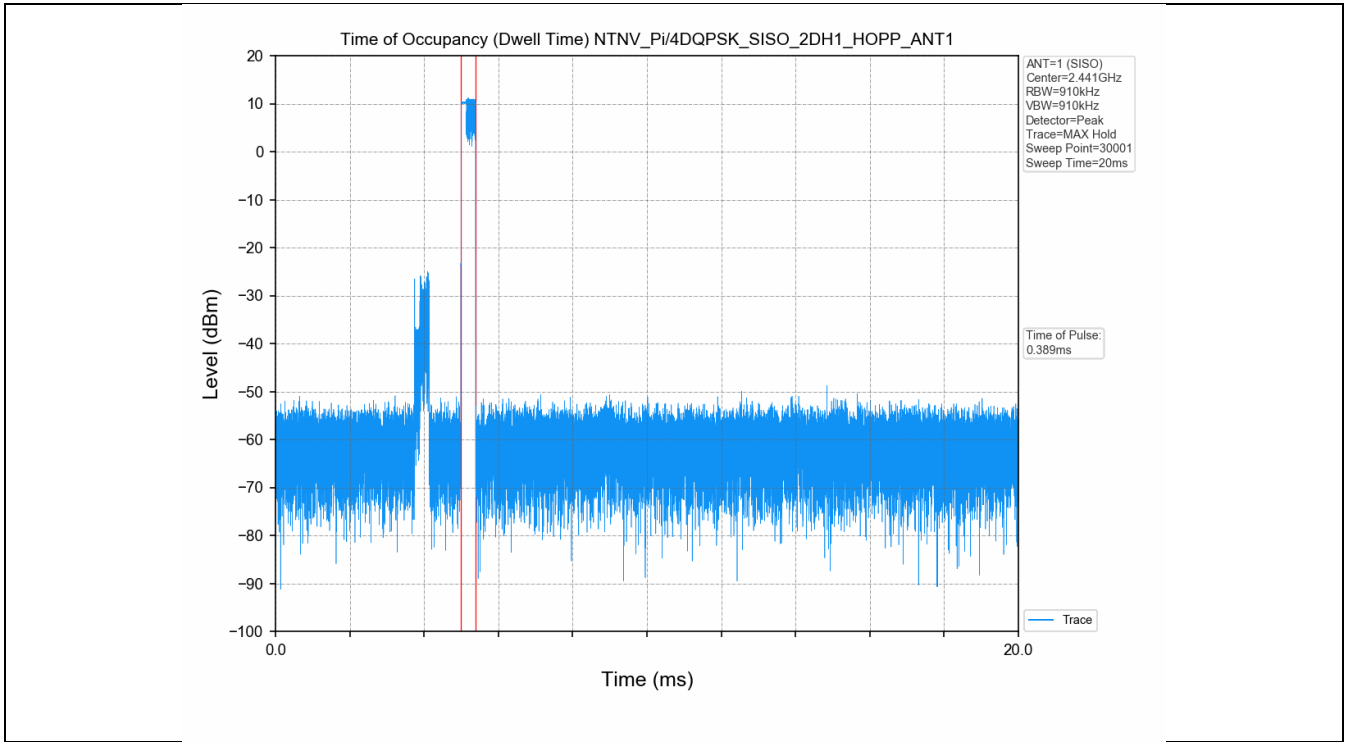
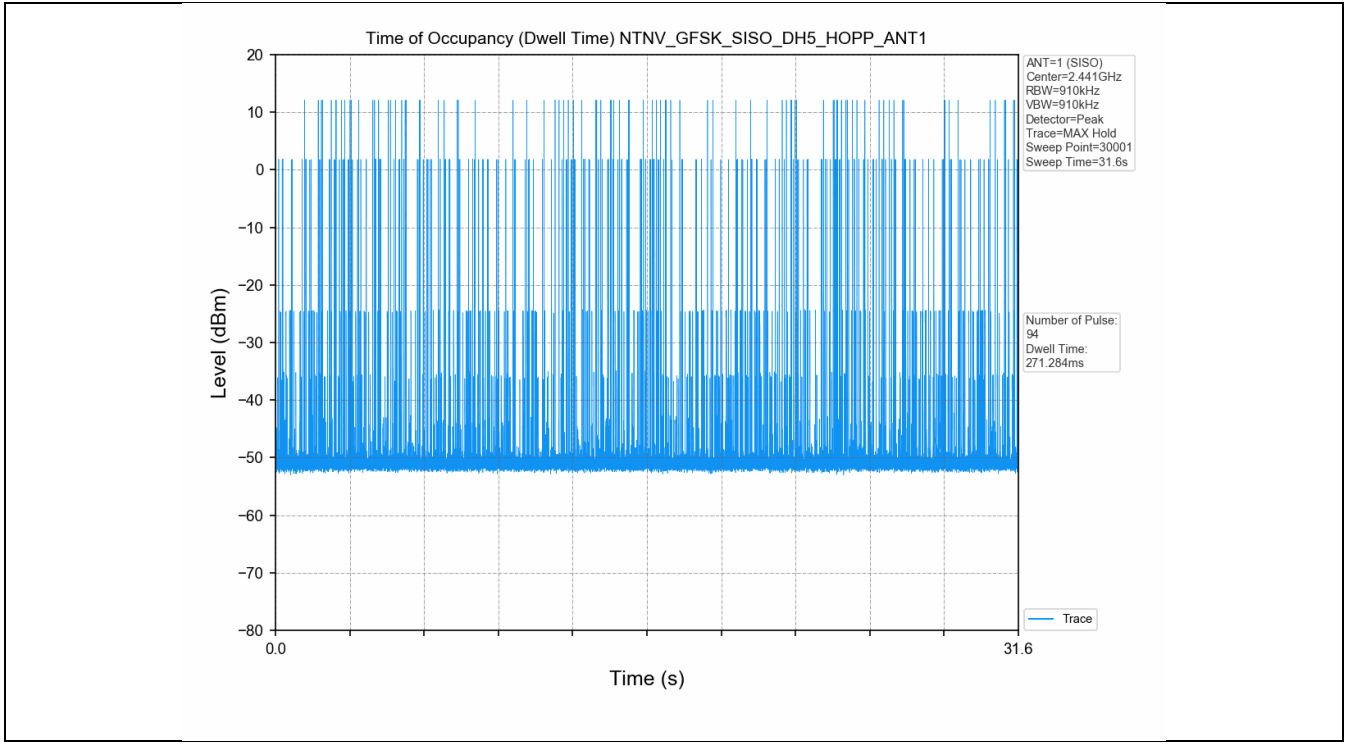
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.381	31.6	320	121.920	≤400	PASS
	DH3	SISO	1	1.638	31.6	153	250.614	≤400	PASS
	DH5	SISO	1	2.886	31.6	94	271.284	≤400	PASS
Pi/4DQ PSK	2DH1	SISO	1	0.389	31.6	320	124.480	≤400	PASS
	2DH3	SISO	1	1.639	31.6	160	262.240	≤400	PASS
	2DH5	SISO	1	2.889	31.6	112	323.568	≤400	PASS
8DPSK	3DH1	SISO	1	0.389	31.6	324	126.036	≤400	PASS
	3DH3	SISO	1	1.640	31.6	161	264.040	≤400	PASS
	3DH5	SISO	1	2.892	31.6	100	289.200	≤400	PASS

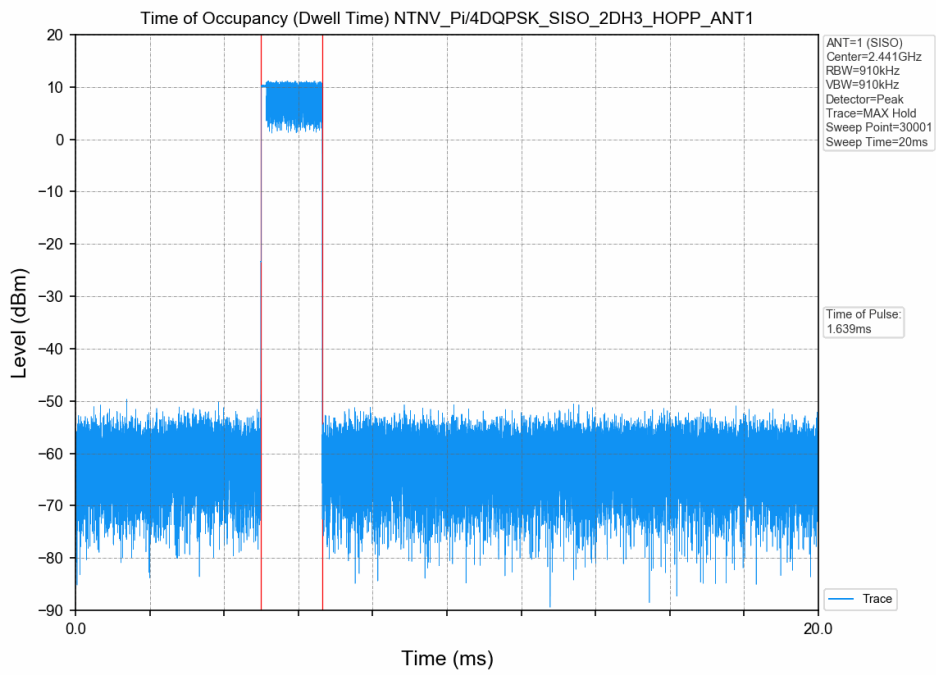
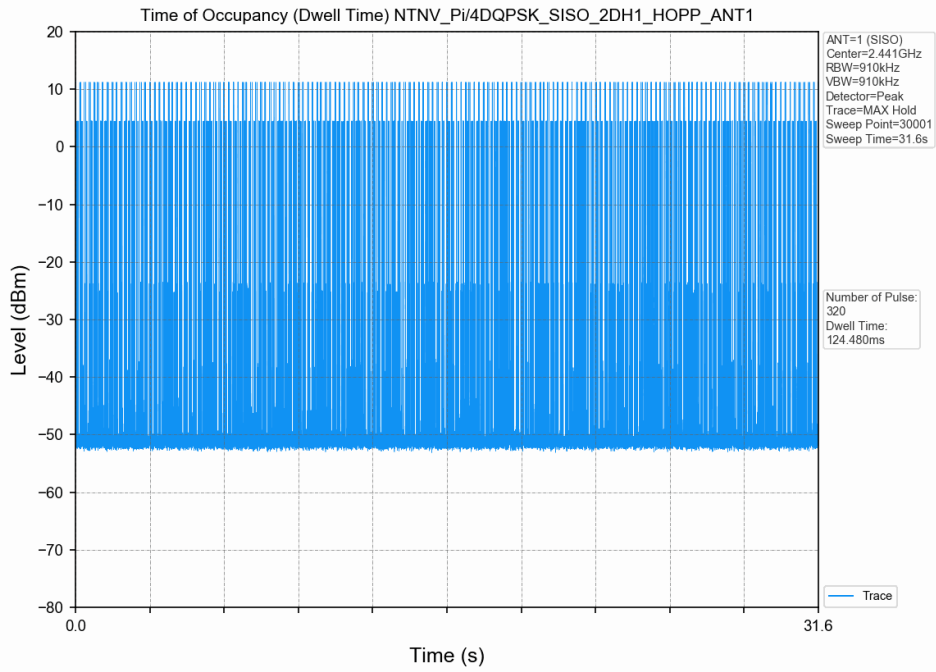
5.2 Test Graph

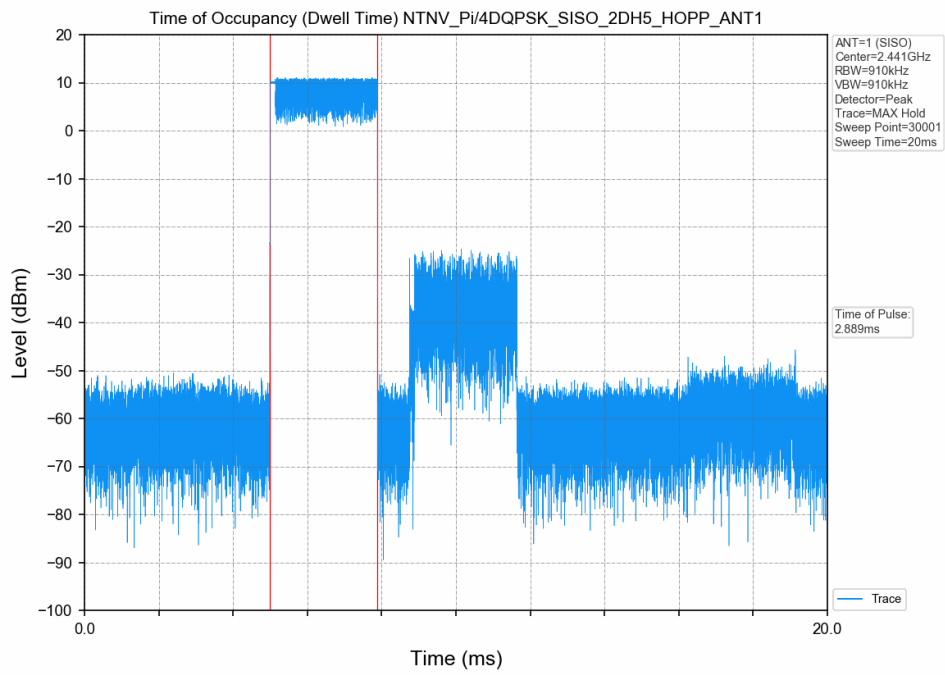
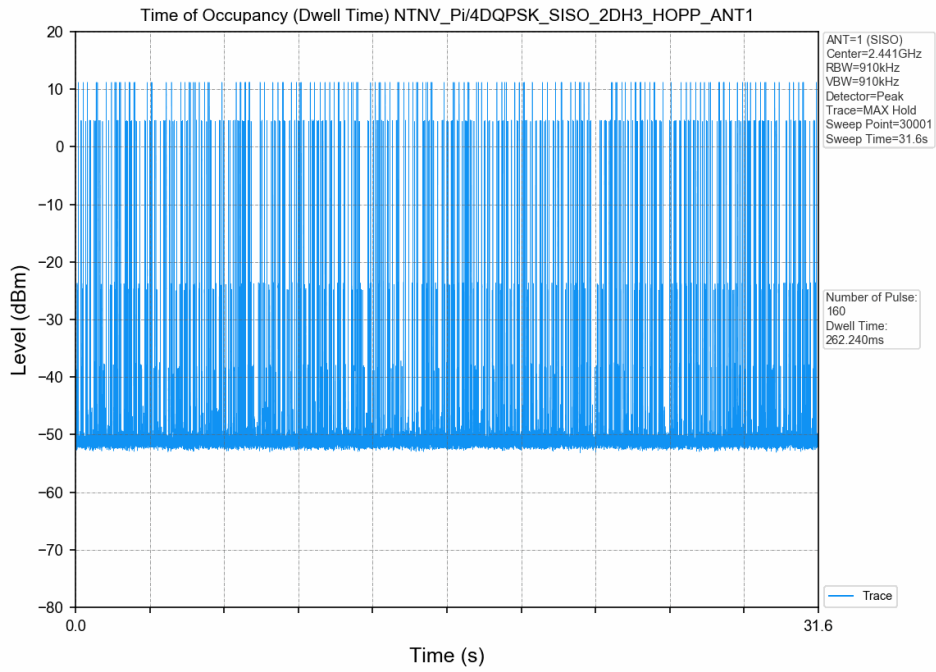


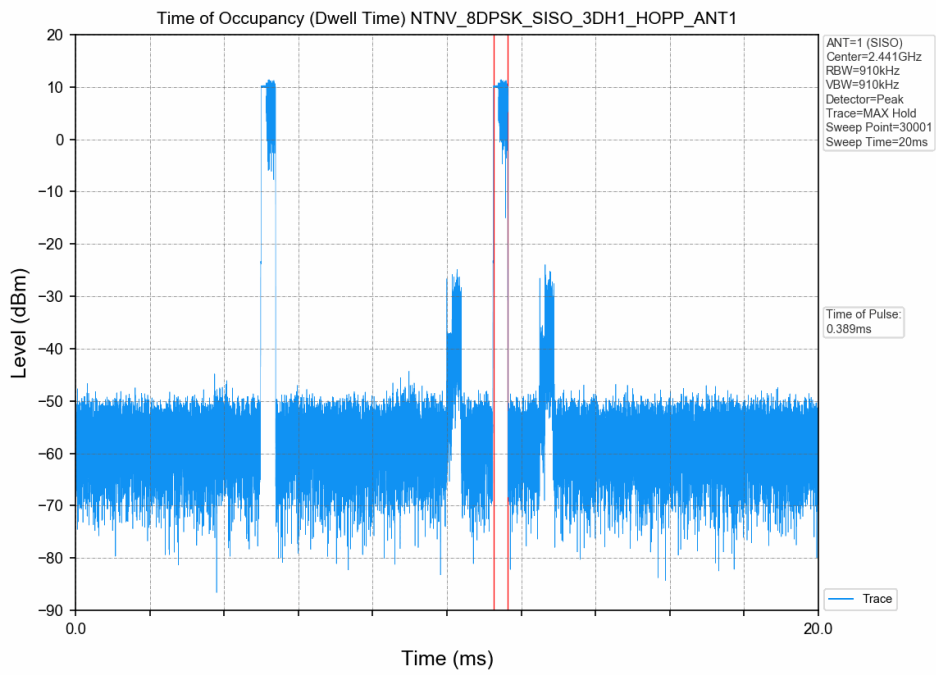
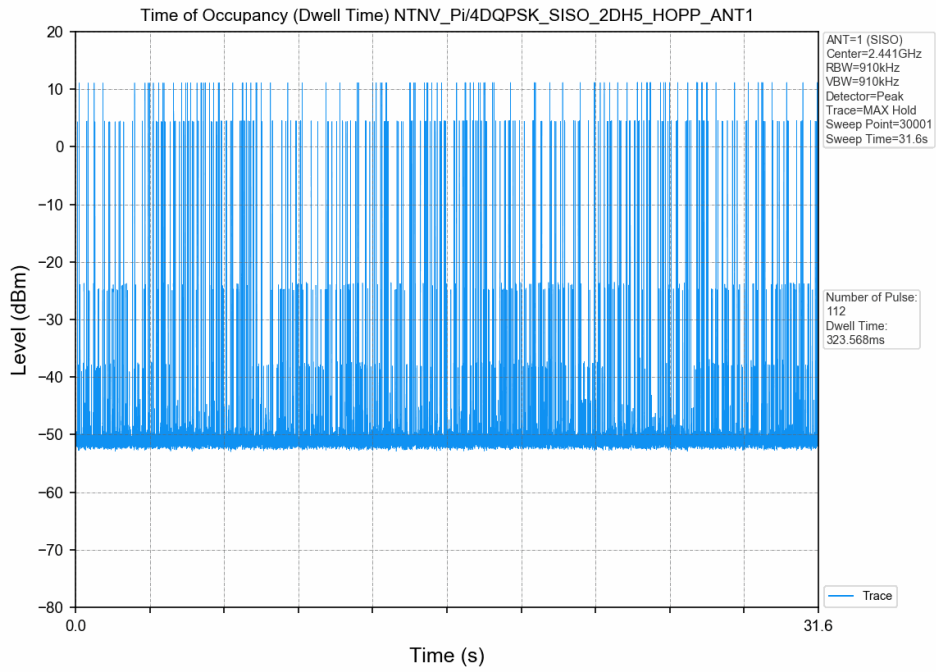


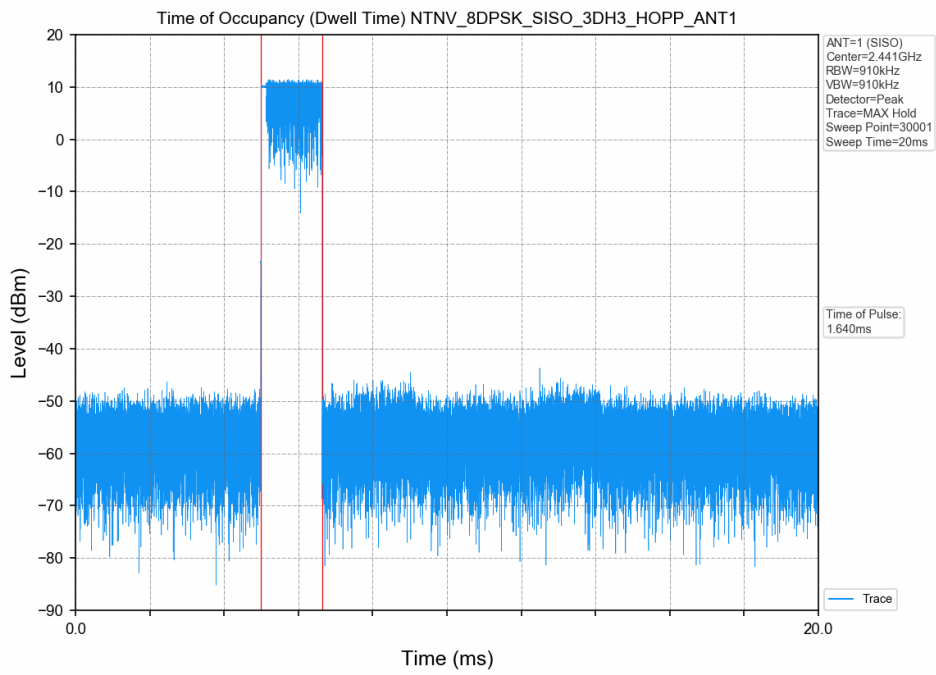
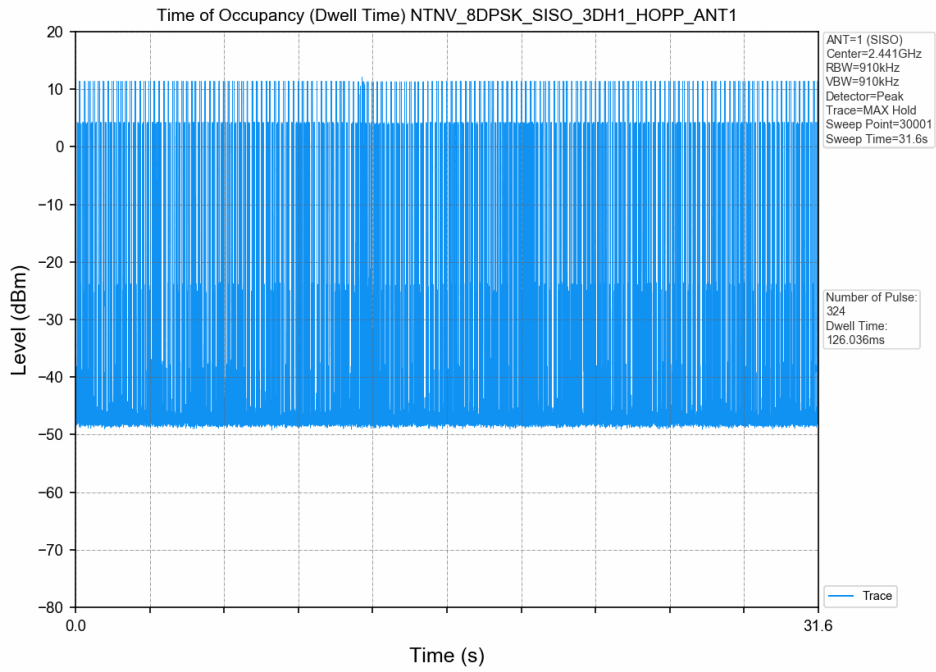


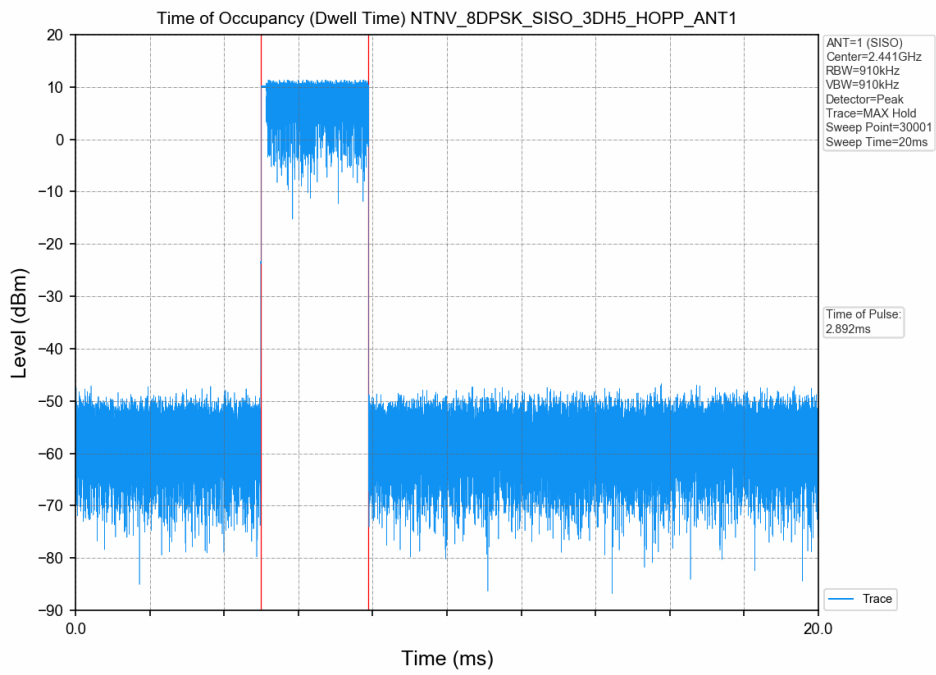
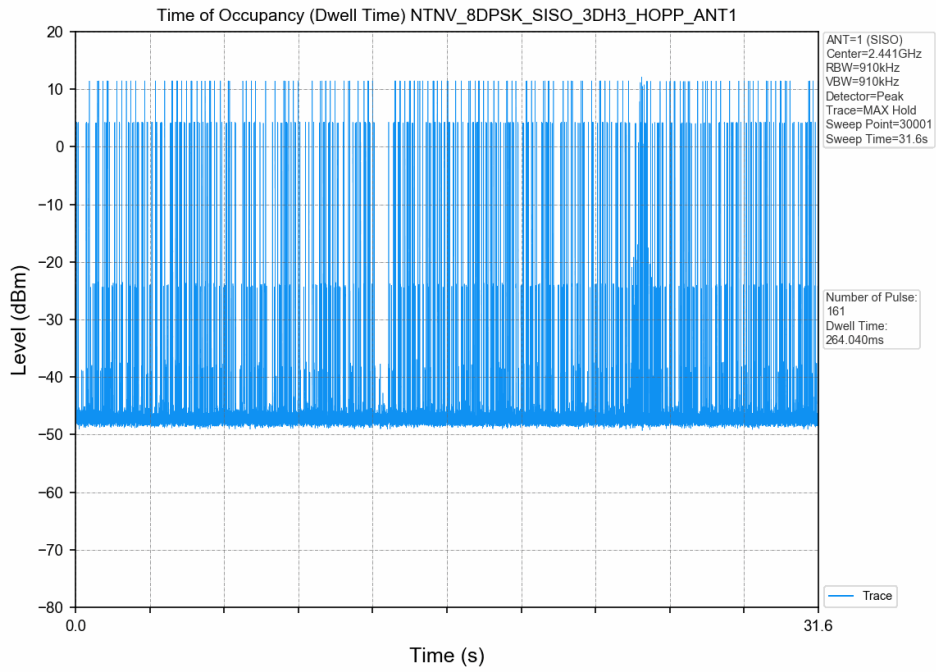


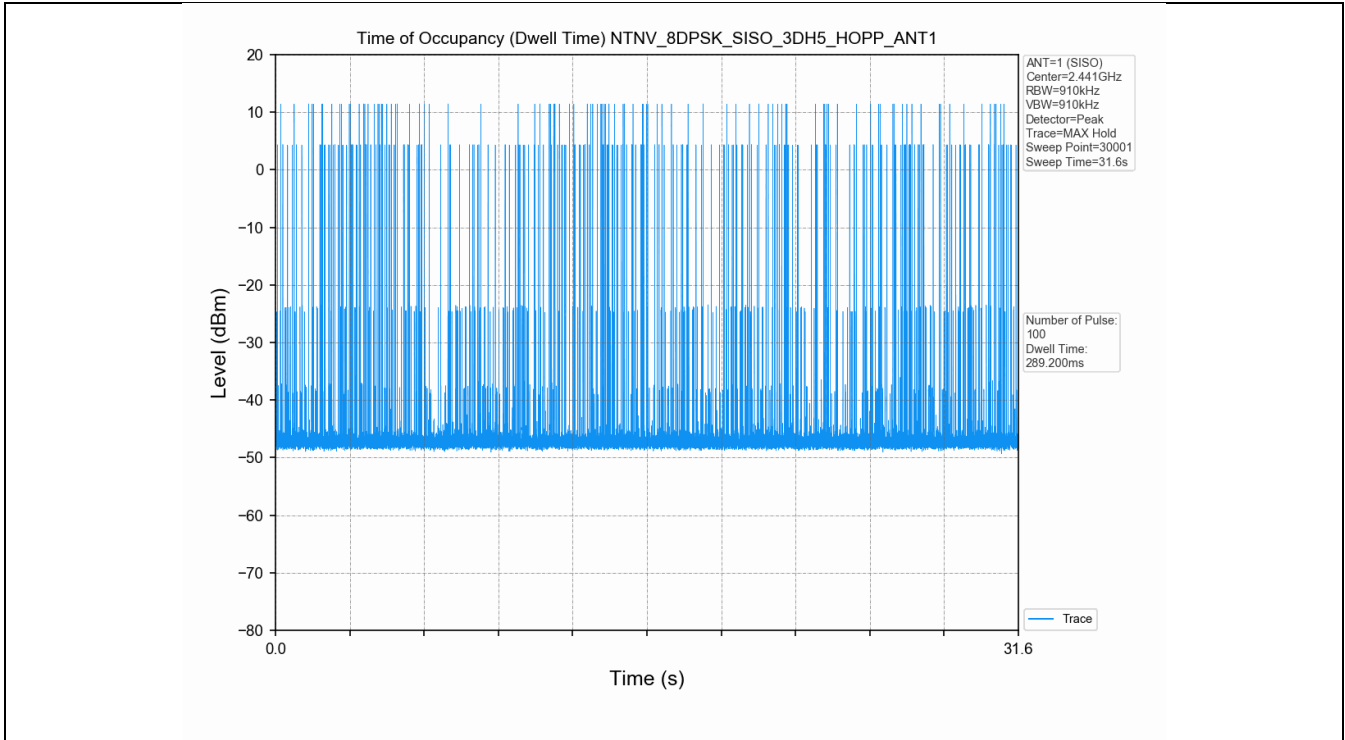












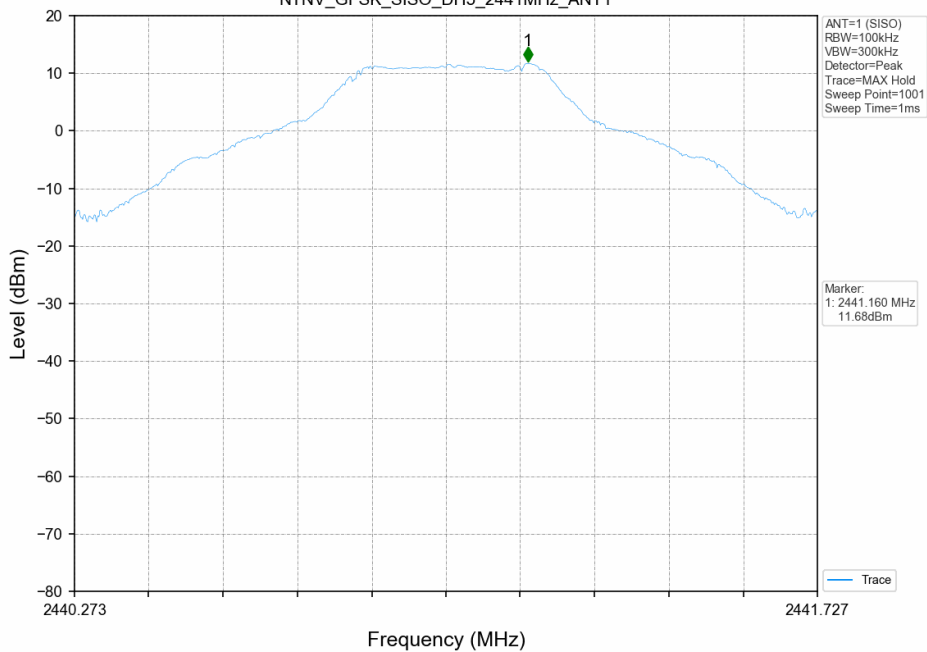
6. Unwanted Emissions in Non-restricted Frequency Bands

6.1 Test Result

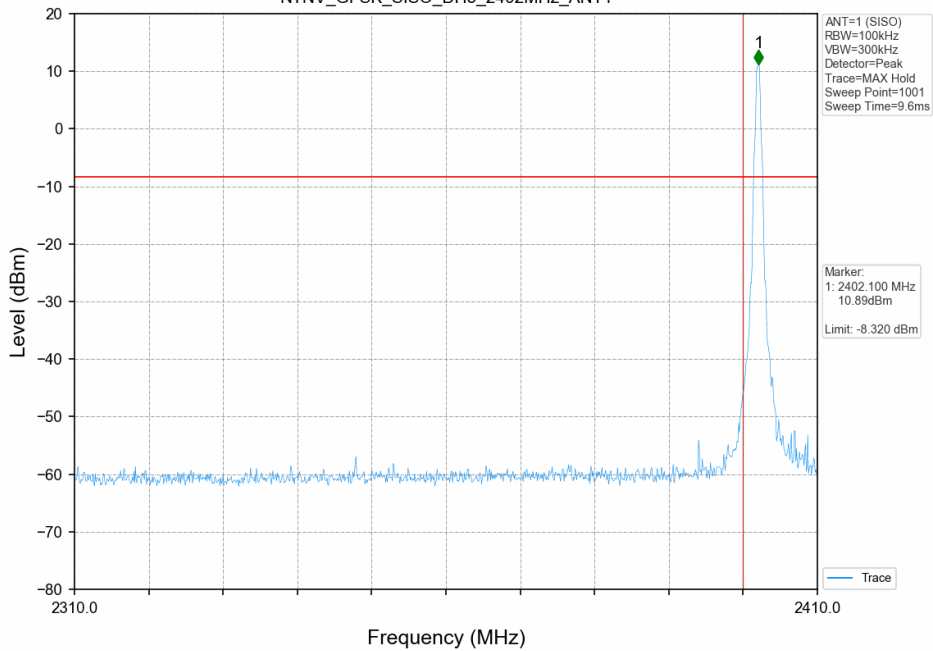
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-8.32	PASS
	2441	SISO	1	Refer to test graph	-8.32	PASS
	2480	SISO	1	Refer to test graph	-8.32	PASS
	Hopping	SISO	1	Refer to test graph	-8.32	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-10.10	PASS
	2441	SISO	1	Refer to test graph	-10.10	PASS
	2480	SISO	1	Refer to test graph	-10.10	PASS
	Hopping	SISO	1	Refer to test graph	-10.10	PASS
8DPSK	2402	SISO	1	Refer to test graph	-9.97	PASS
	2441	SISO	1	Refer to test graph	-9.97	PASS
	2480	SISO	1	Refer to test graph	-9.97	PASS
	Hopping	SISO	1	Refer to test graph	-9.97	PASS

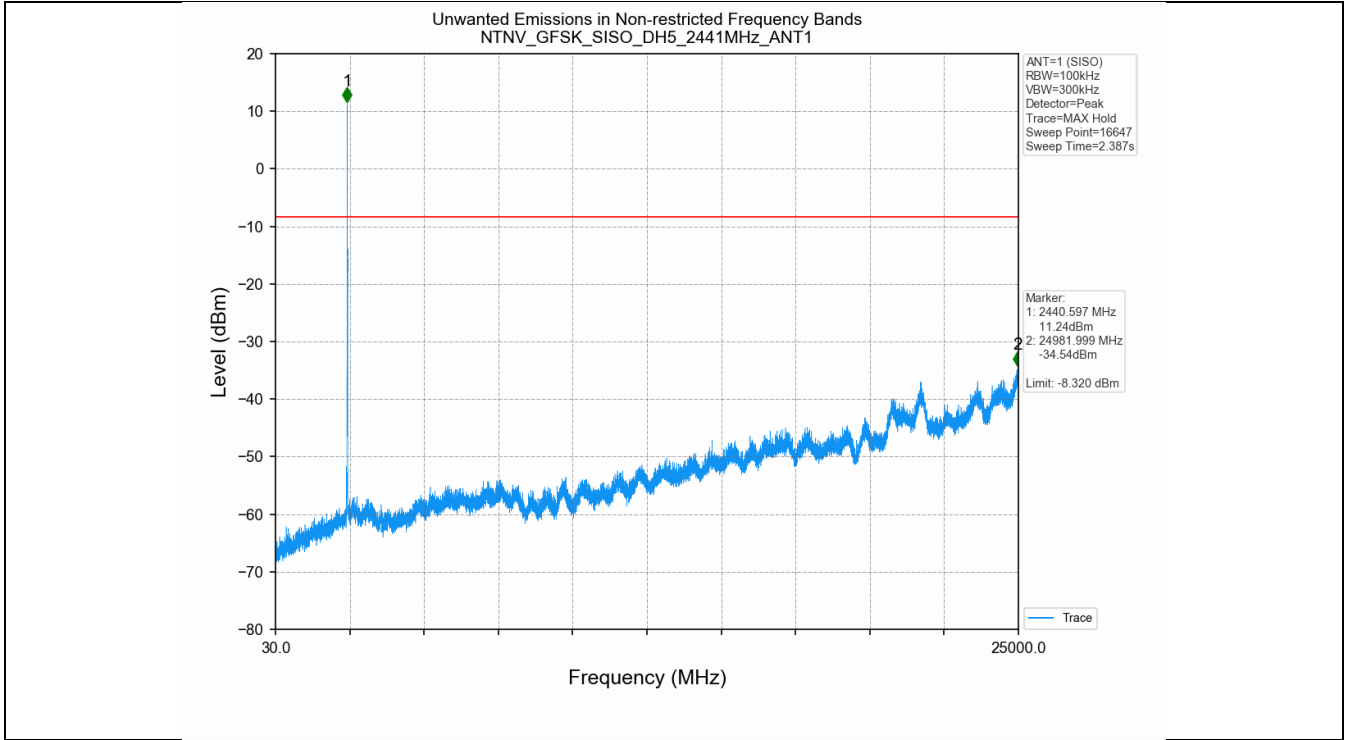
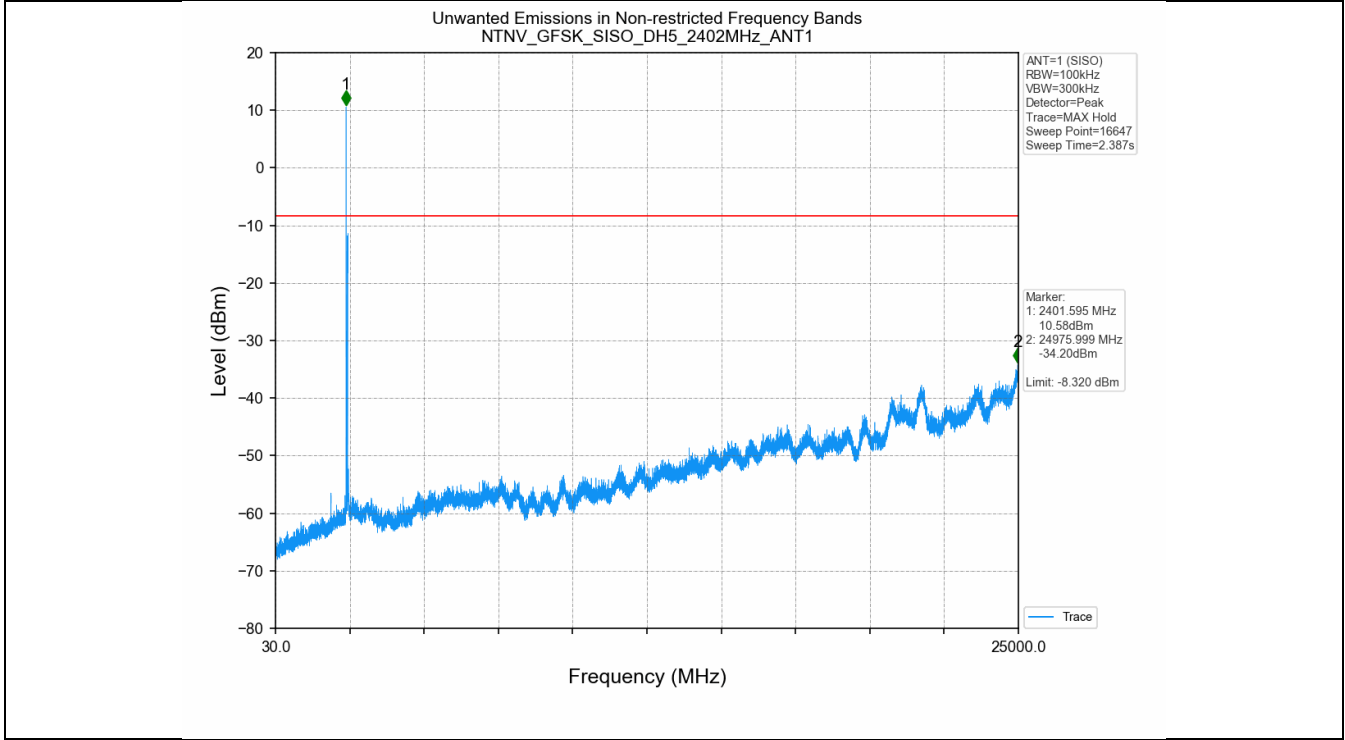
6.2 Test Graph

Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2441MHz_ANT1

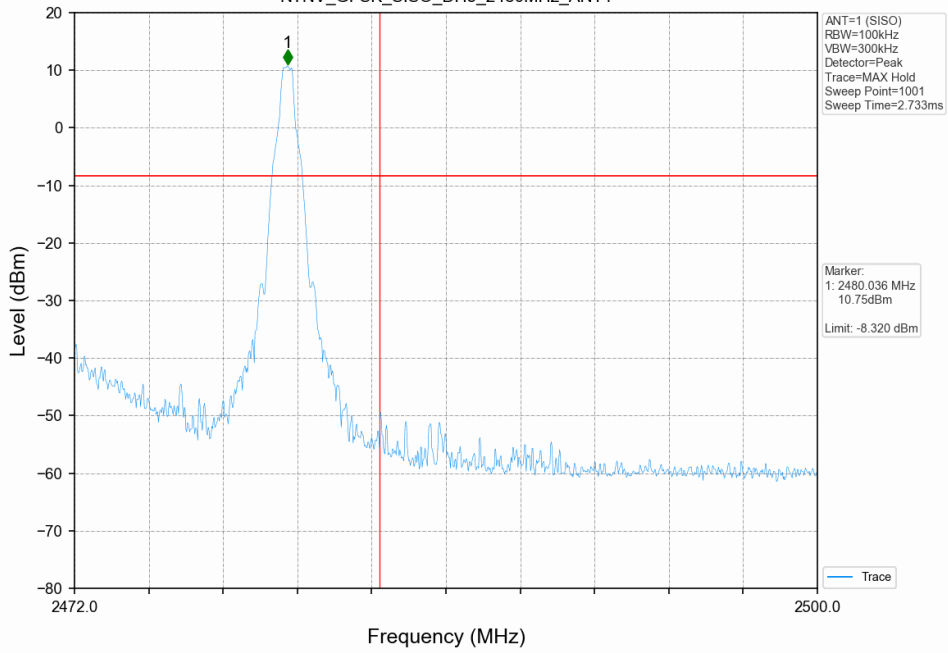


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2402MHz_ANT1

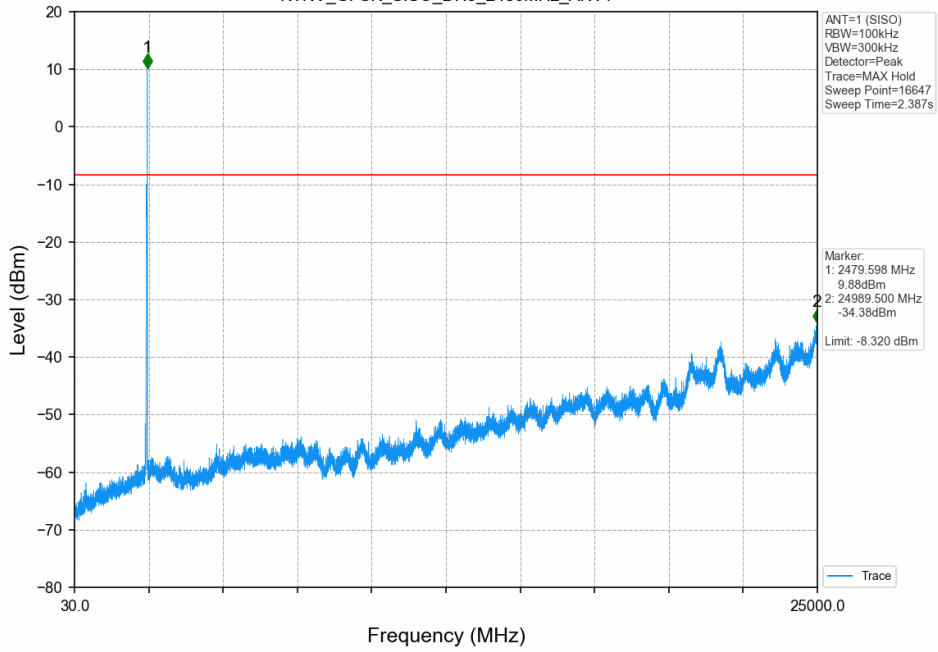




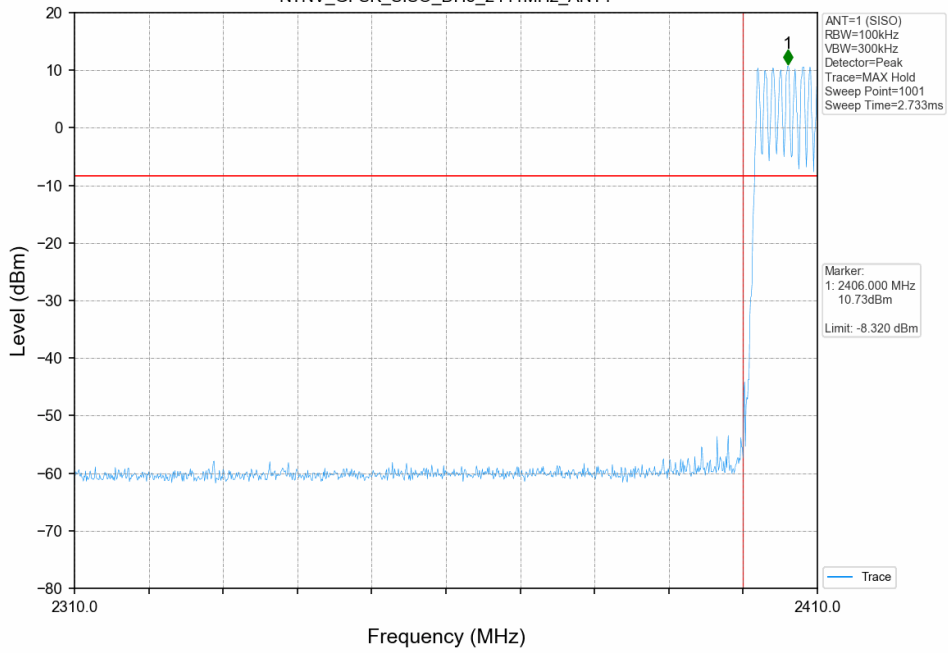
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2480MHz_ANT1



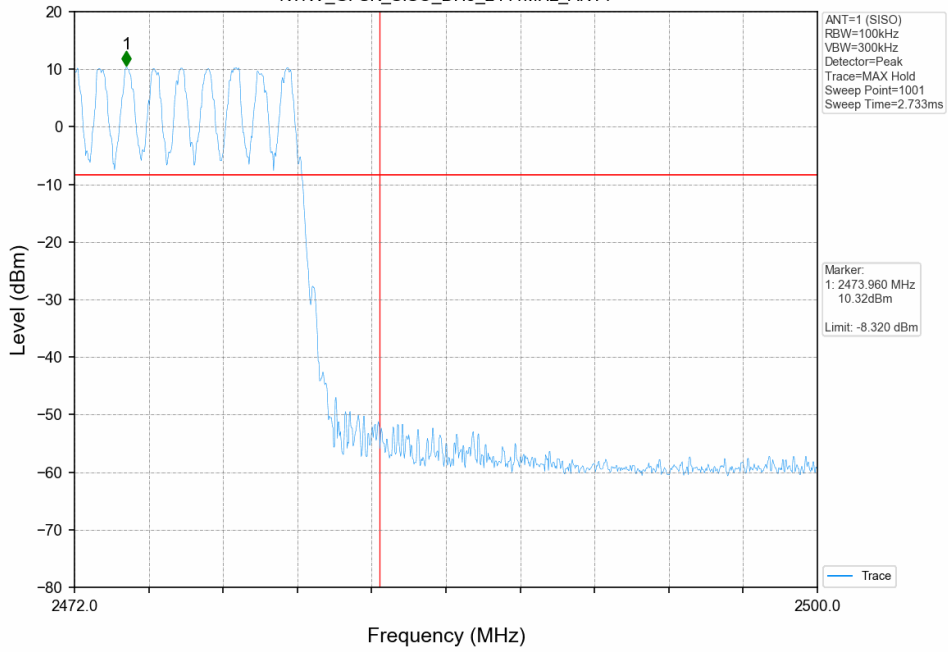
Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2480MHz_ANT1

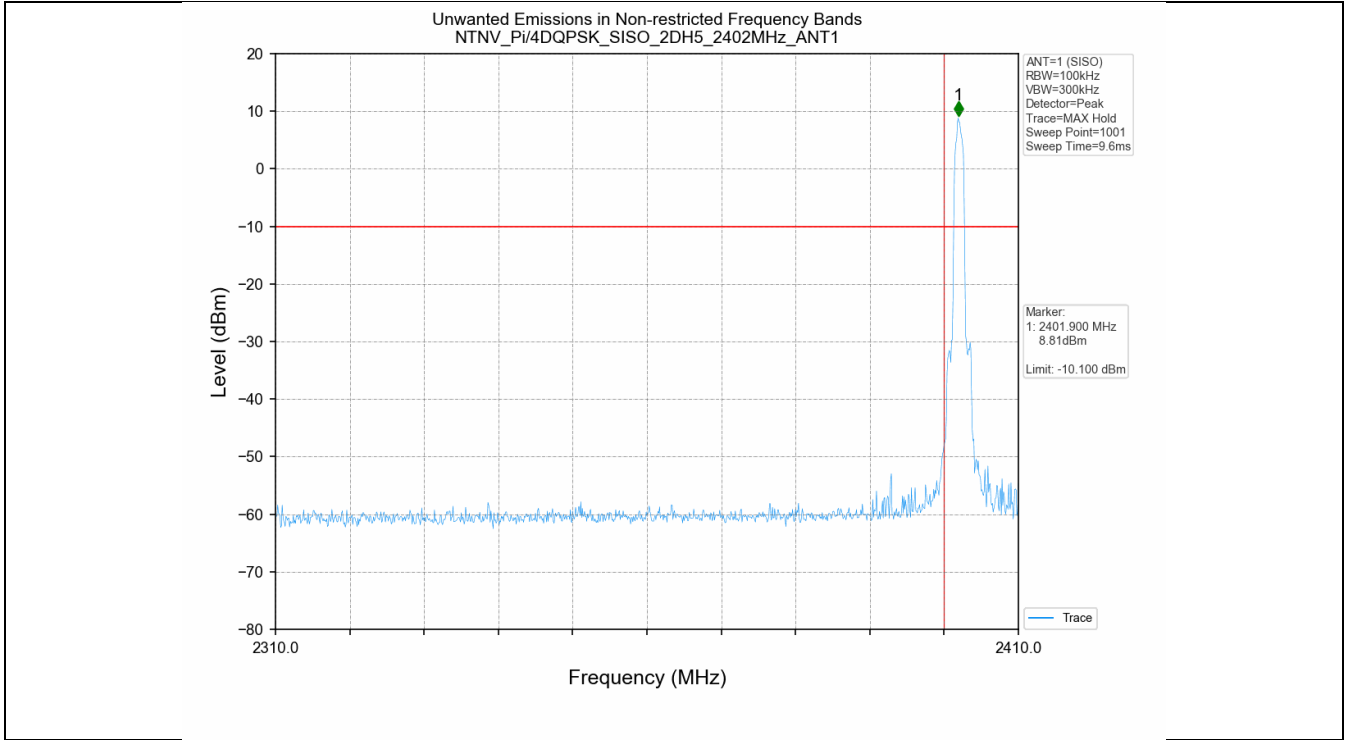
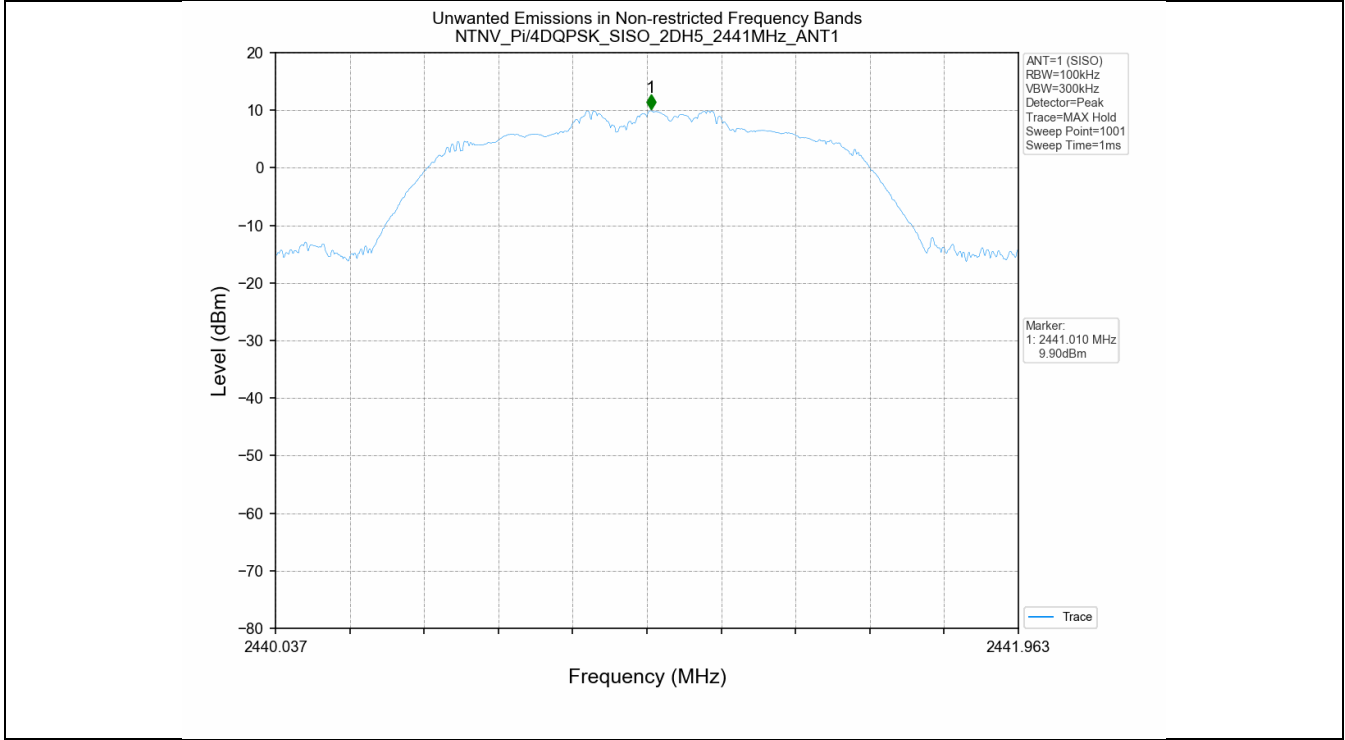


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2441MHz_ANT1

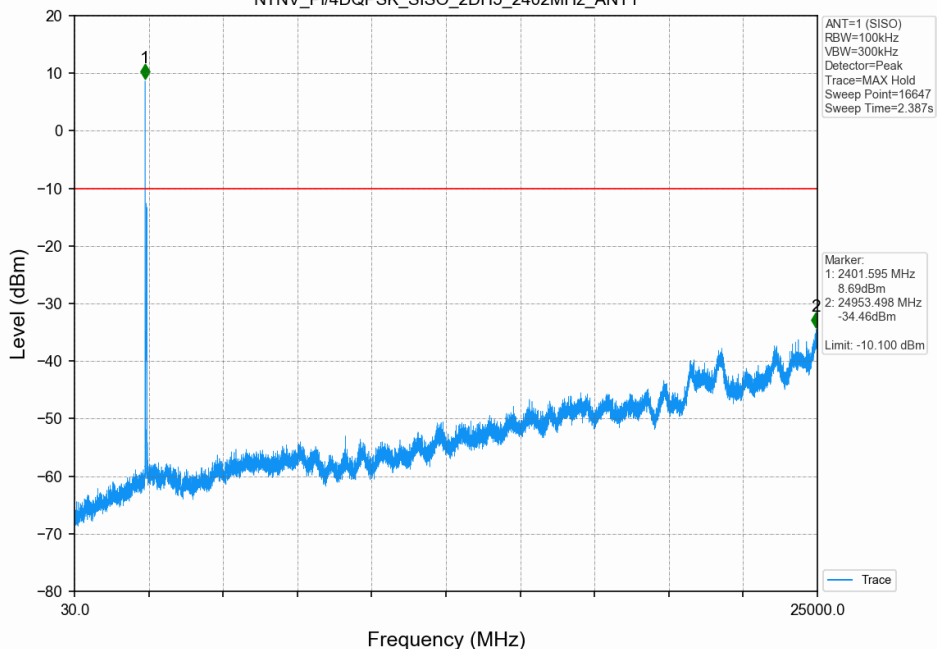


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_GFSK_SISO_DH5_2441MHz_ANT1

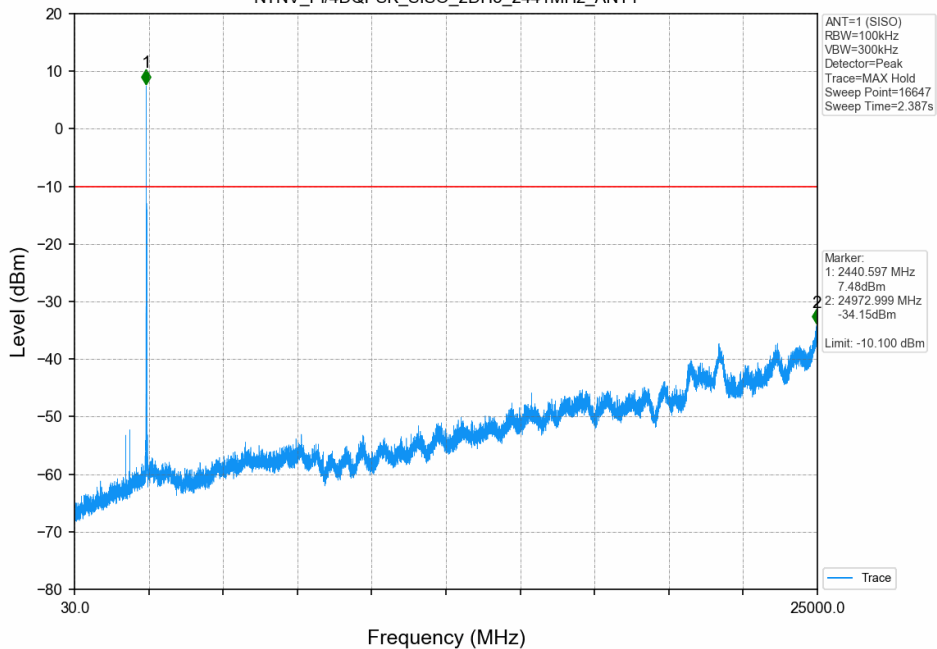


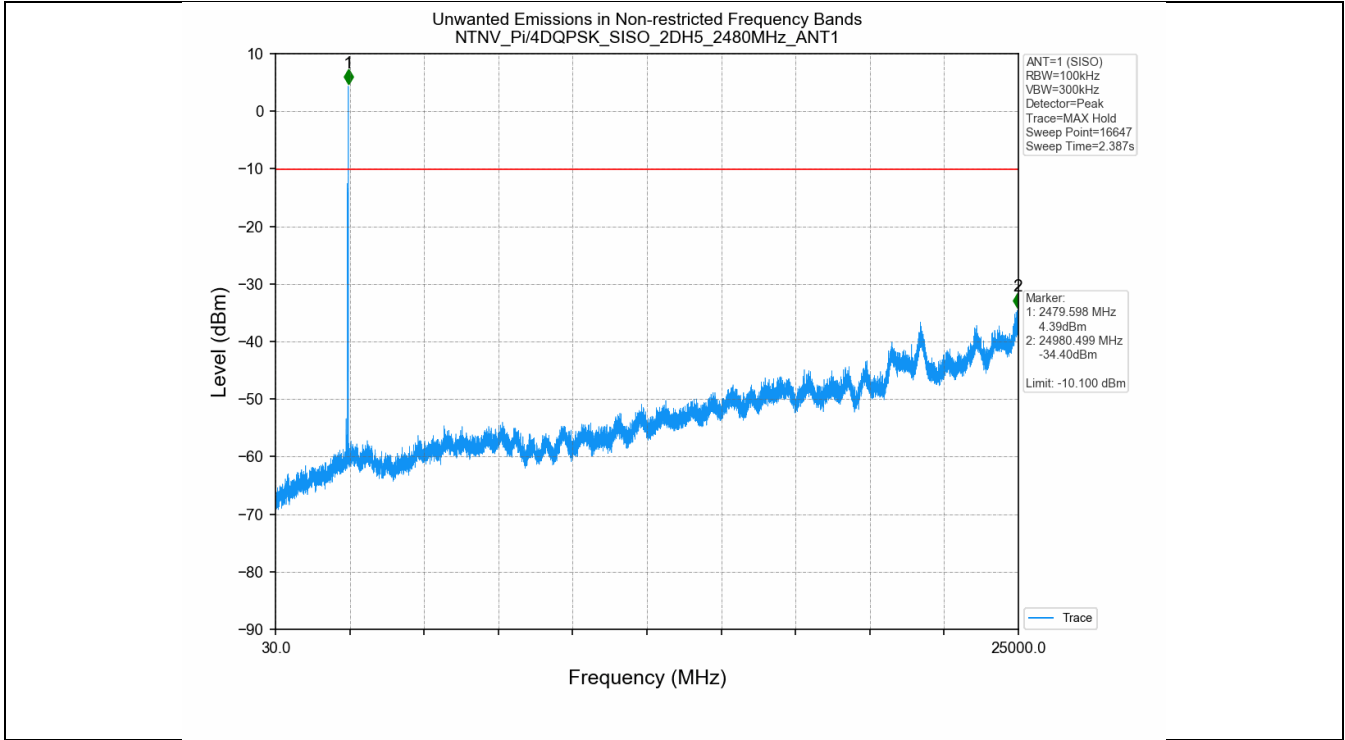
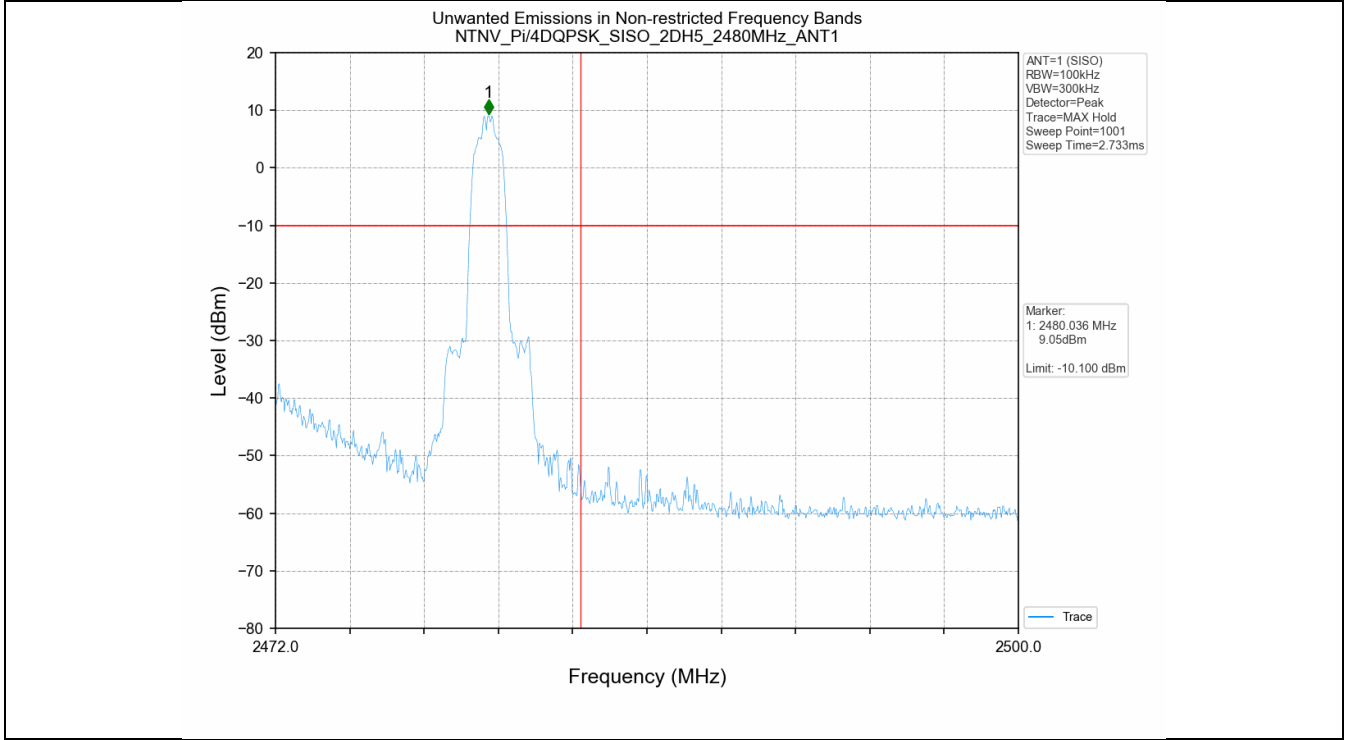


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_Pi/4QPSK_SISO_2DH5_2402MHz_ANT1

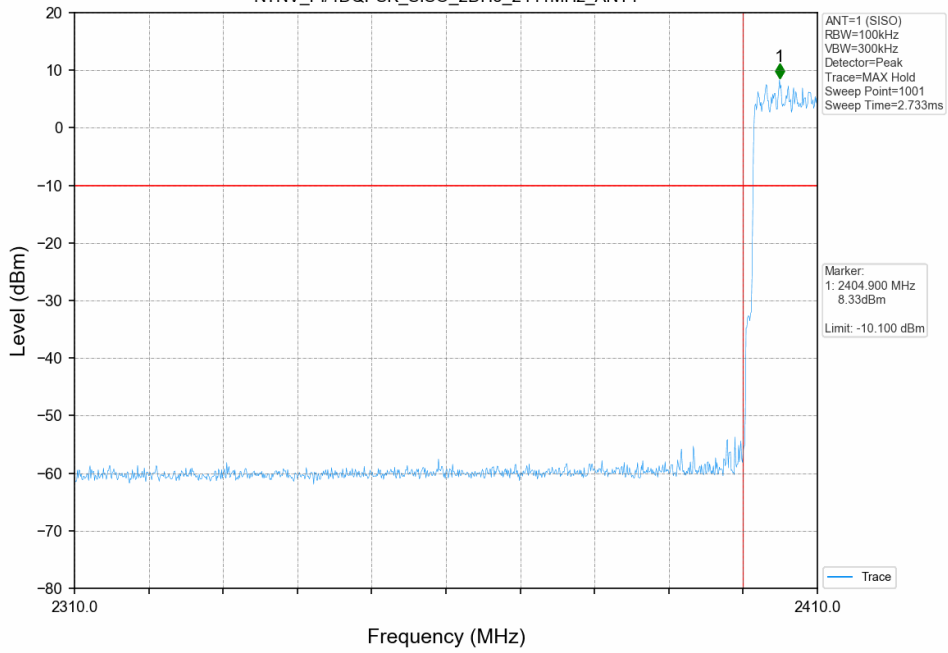


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_Pi/4QPSK_SISO_2DH5_2441MHz_ANT1

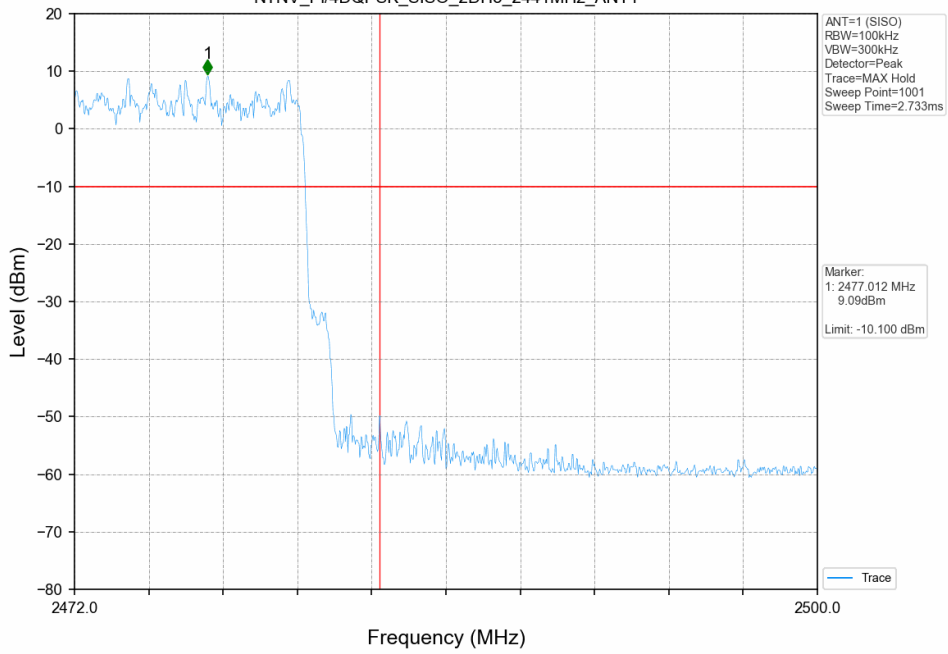


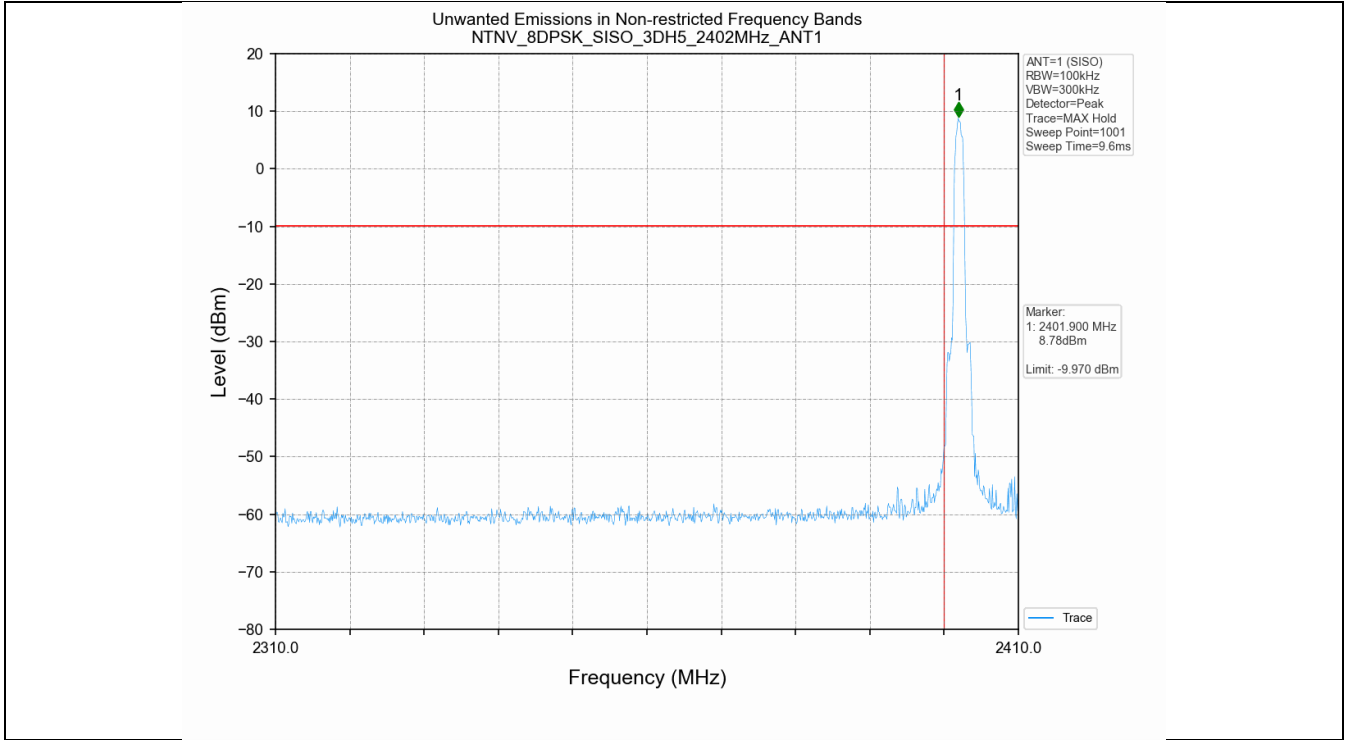
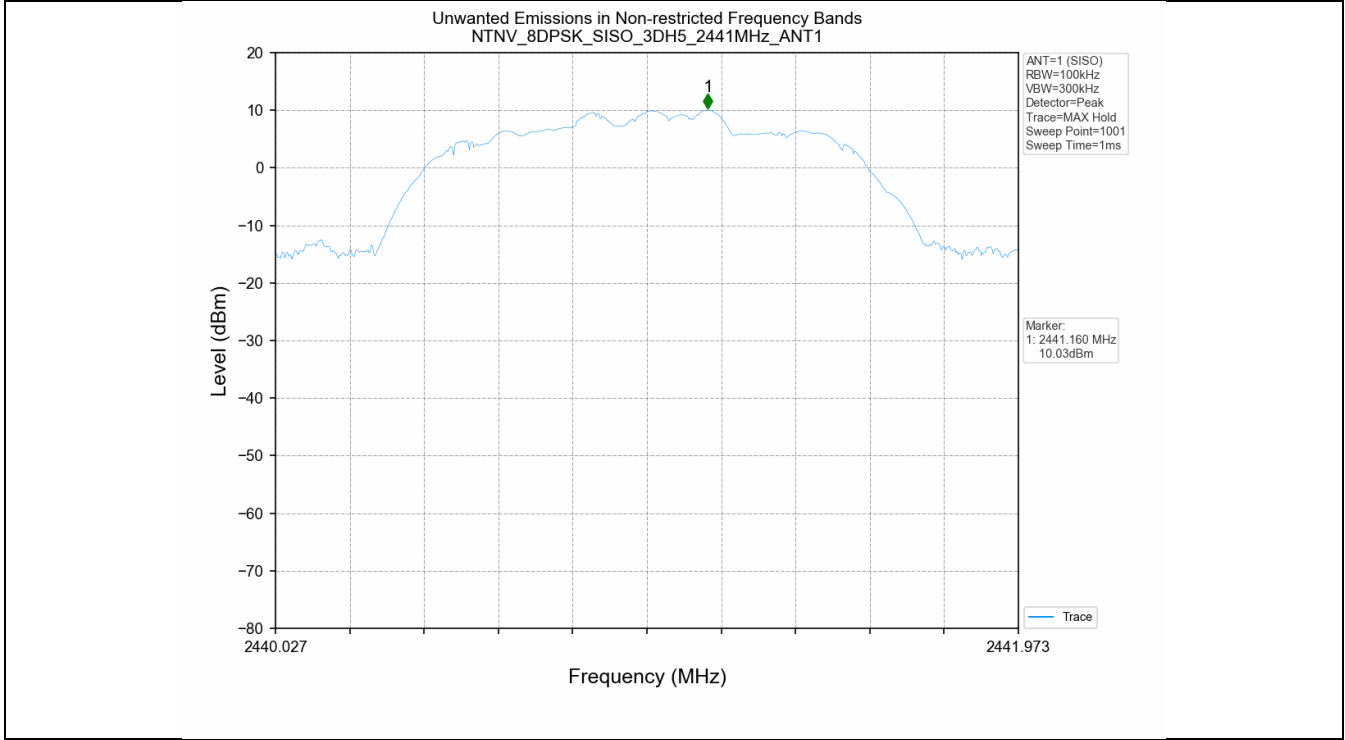


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_Pi/4QPSK_SISO_2DH5_2441MHz_ANT1

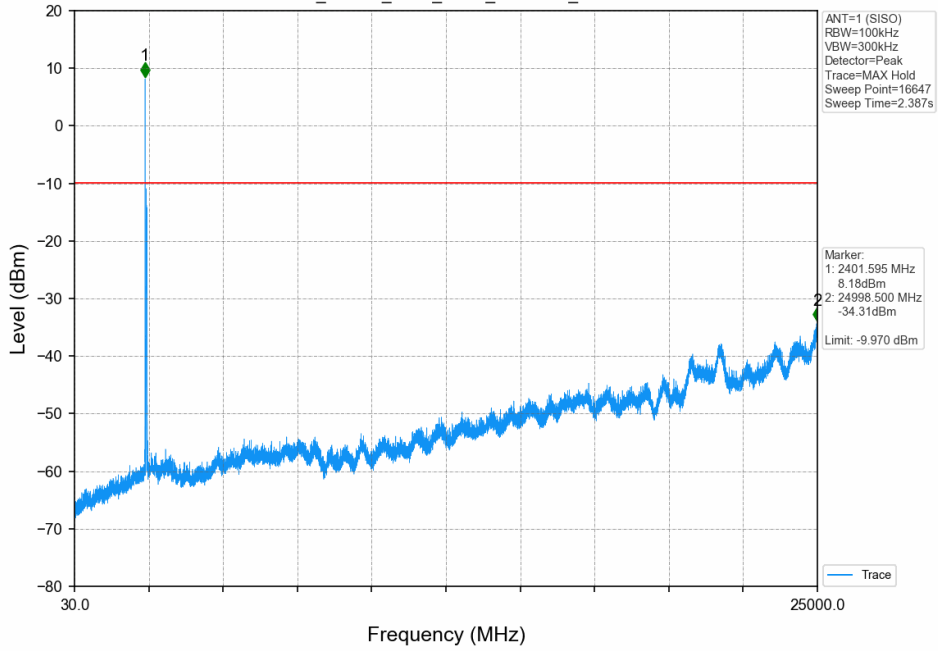


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_Pi/4QPSK_SISO_2DH5_2441MHz_ANT1

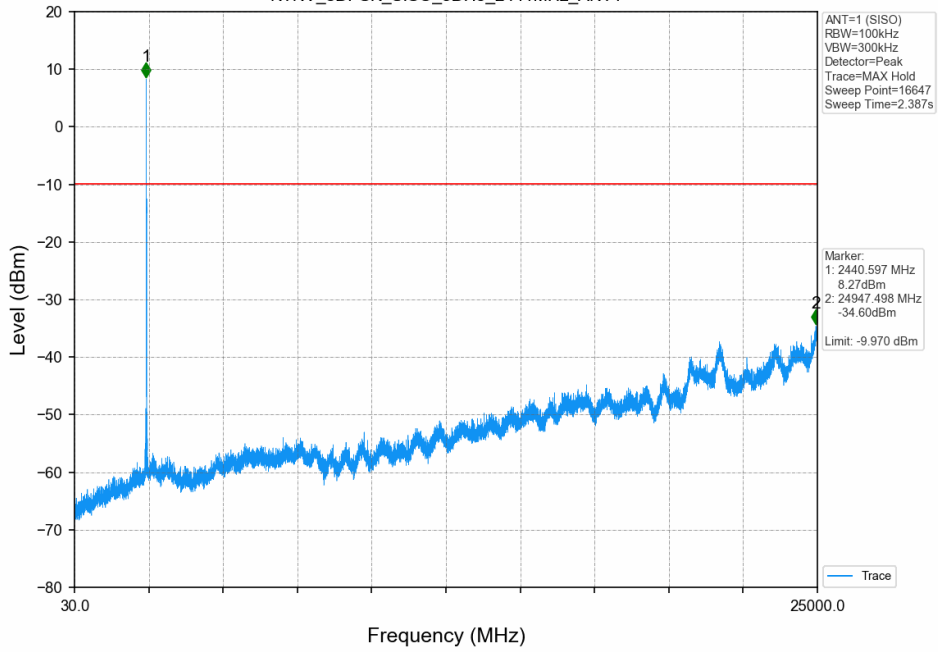


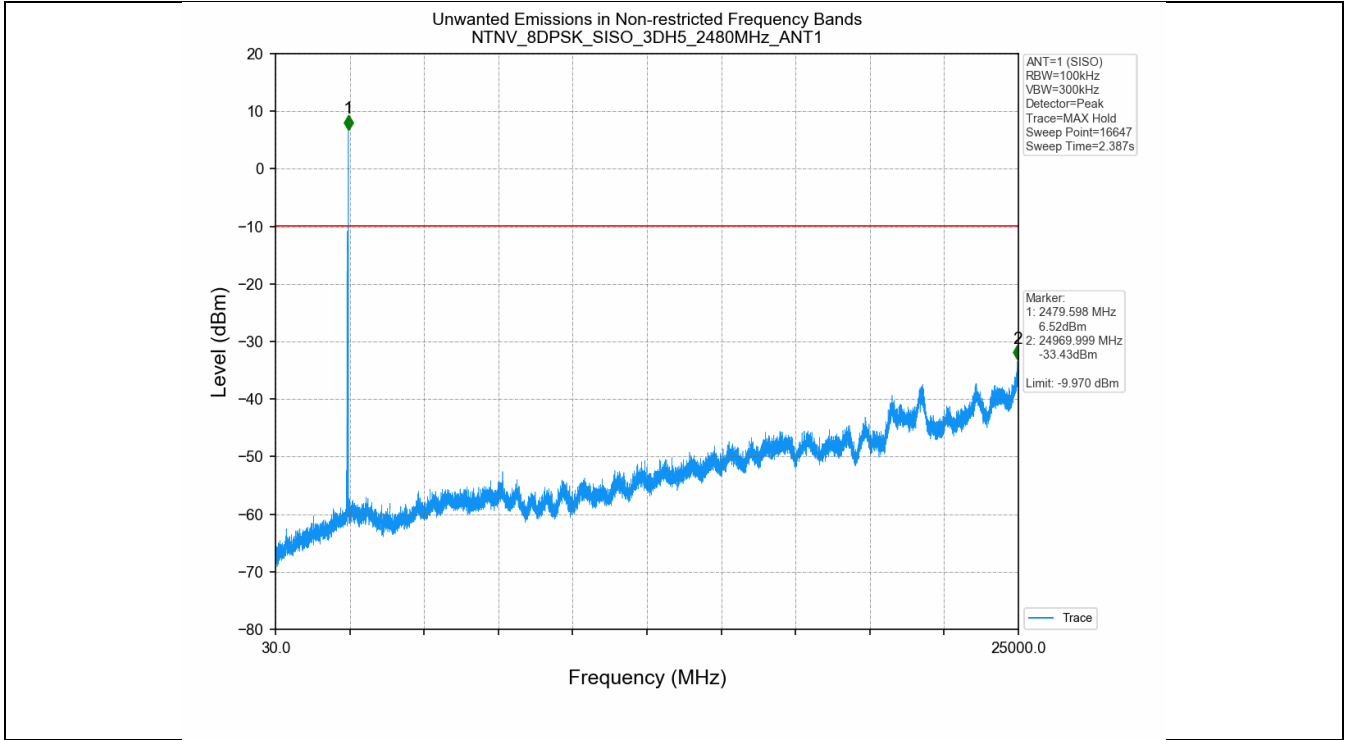
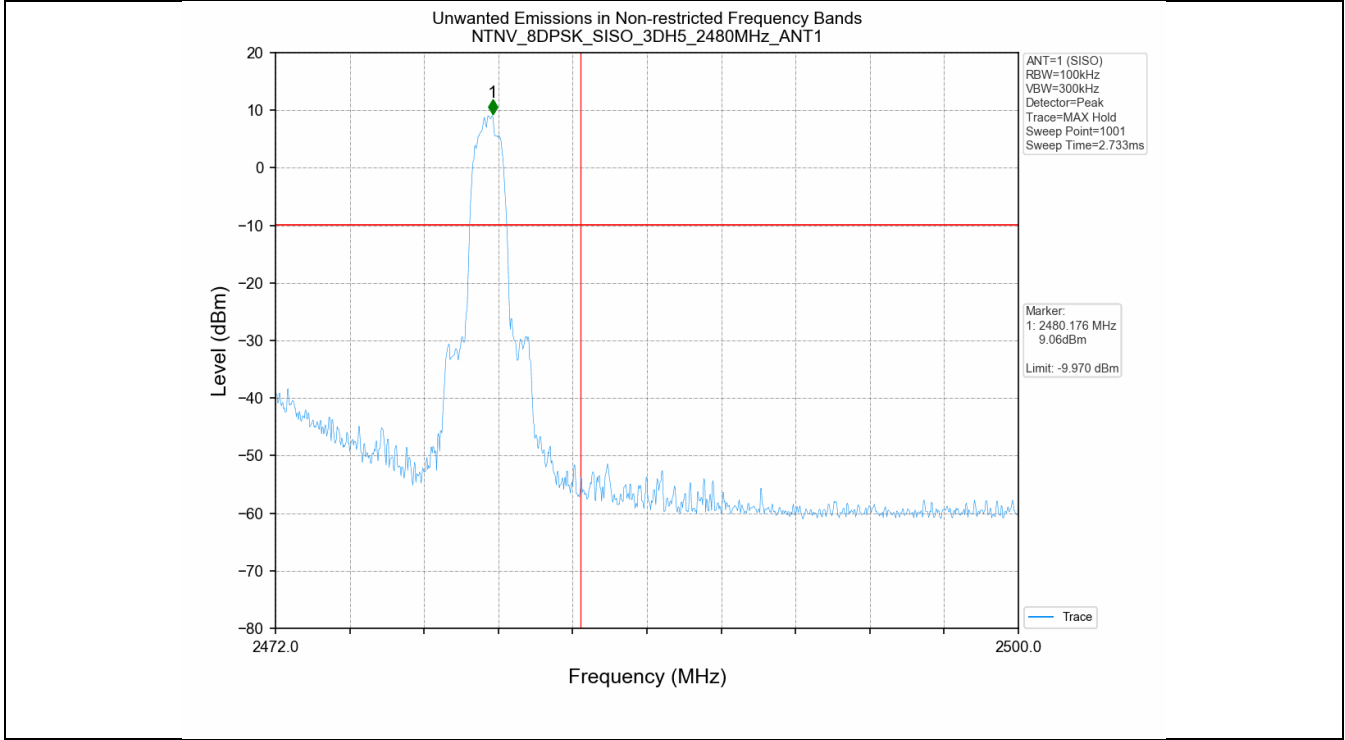


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_8DPSK_SISO_3DH5_2402MHz_ANT1

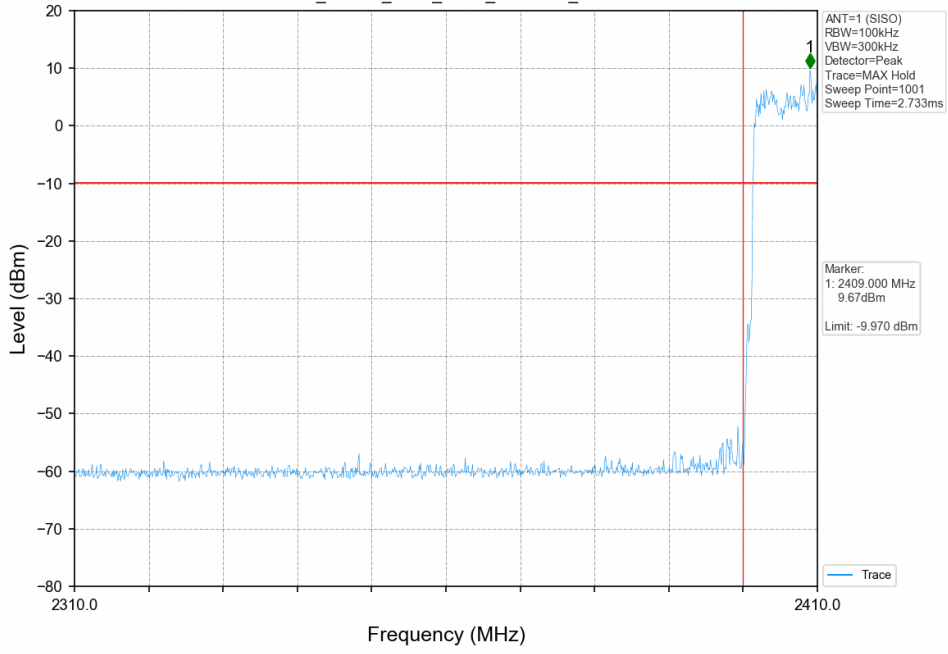


Unwanted Emissions in Non-restricted Frequency Bands
NTNV_8DPSK_SISO_3DH5_2441MHz_ANT1





Unwanted Emissions in Non-restricted Frequency Bands
NTNV_8DPSK_SISO_3DH5_2441MHz_ANT1



Unwanted Emissions in Non-restricted Frequency Bands
NTNV_8DPSK_SISO_3DH5_2441MHz_ANT1

