

Annex for Bluetooth BR&EDR

Test Report No. : CTL2008051011-WF

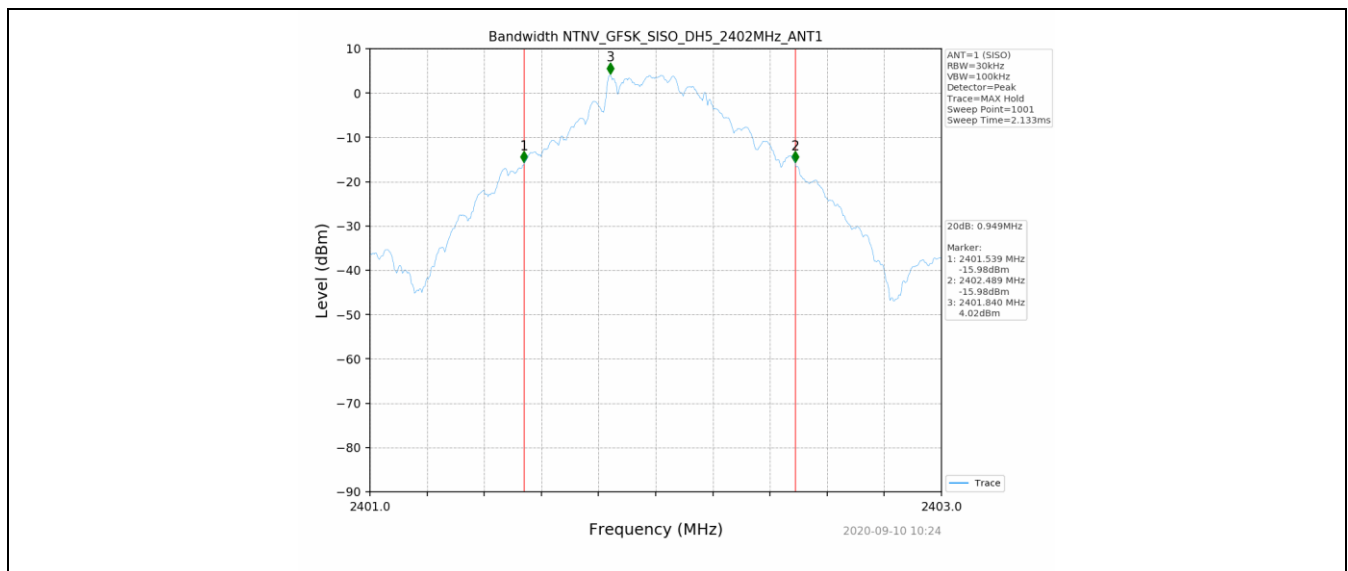
1. Bandwidth

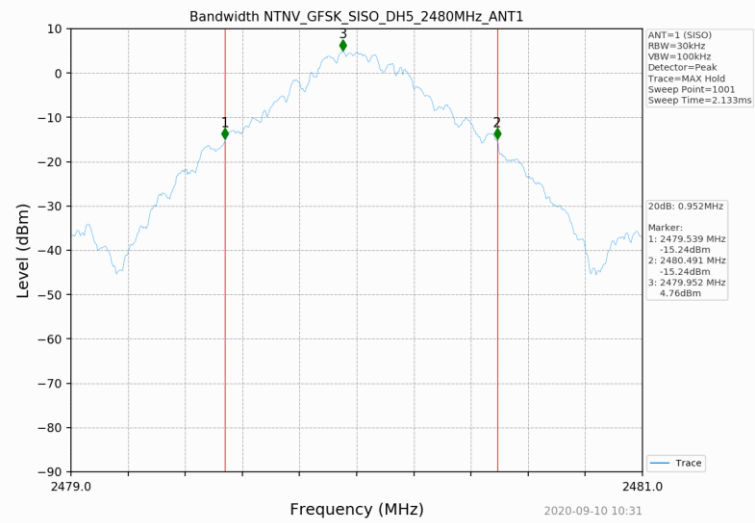
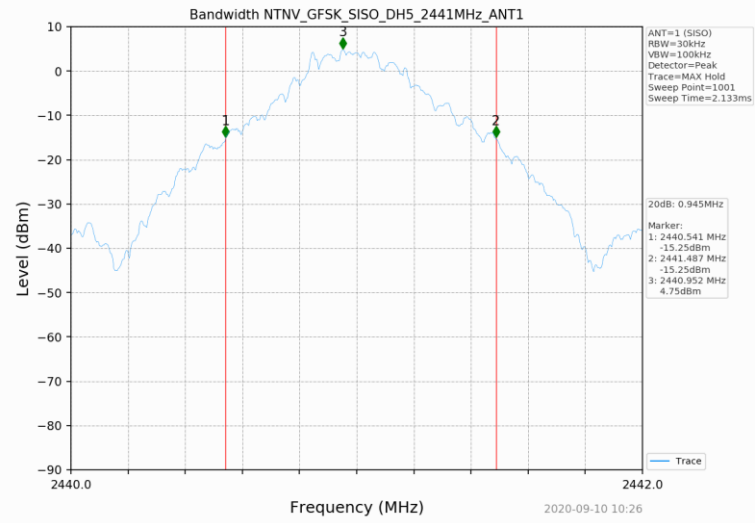
1.1 Test Result

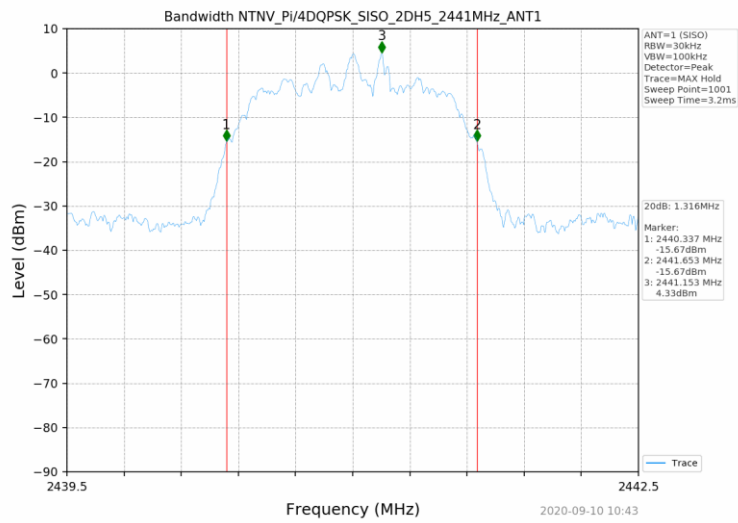
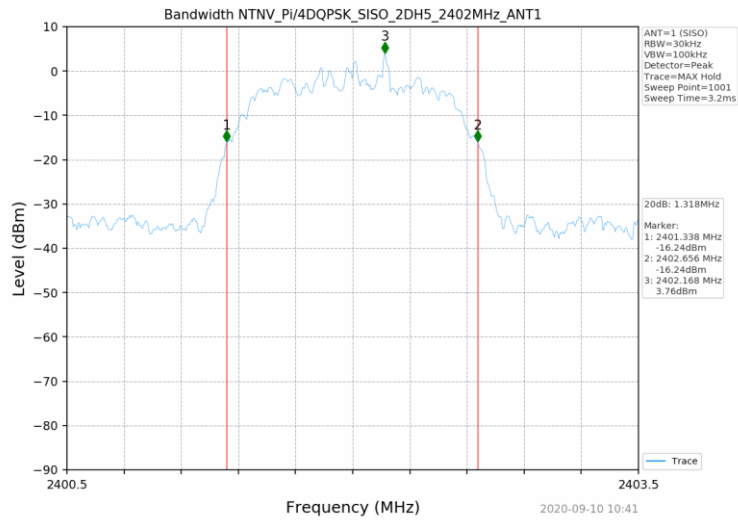
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.949	PASS
	2441	SISO	1	0.945	PASS
	2480	SISO	1	0.952	PASS
Pi/4DQPSK	2402	SISO	1	1.318	PASS
	2441	SISO	1	1.316	PASS
	2480	SISO	1	1.328	PASS
8DPSK	2402	SISO	1	1.316	PASS
	2441	SISO	1	1.316	PASS
	2480	SISO	1	1.317	PASS

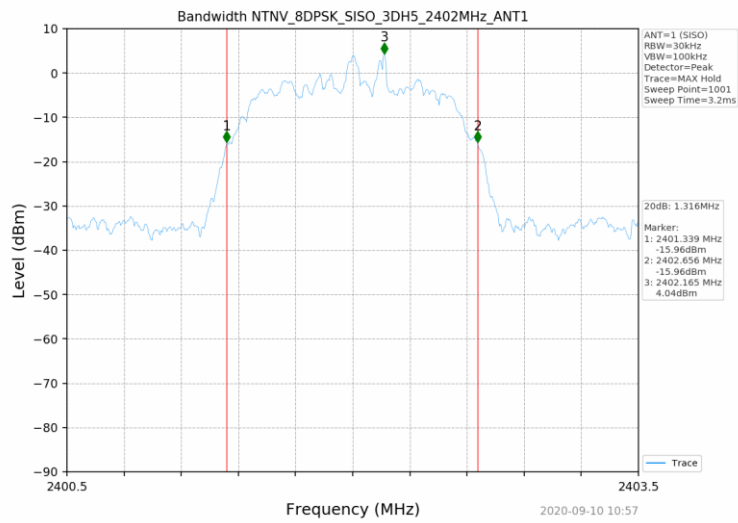
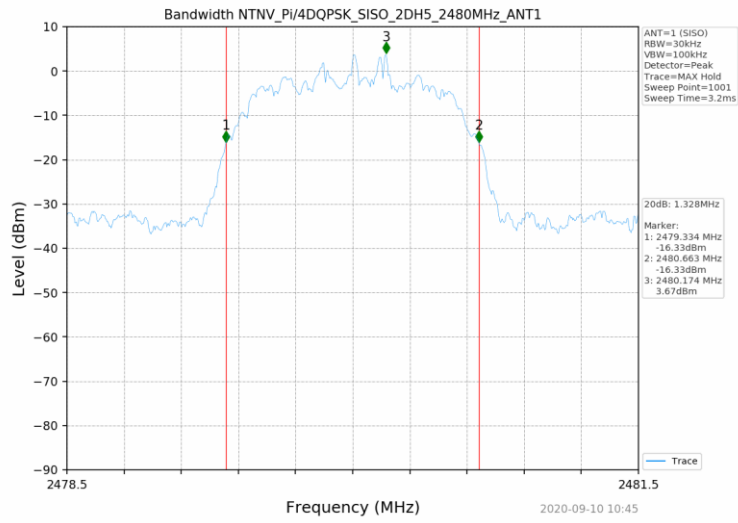
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.842	Only for Report Use
	2441	SISO	1	0.853	Only for Report Use
	2480	SISO	1	0.844	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.183	Only for Report Use
	2441	SISO	1	1.207	Only for Report Use
	2480	SISO	1	1.193	Only for Report Use
8DPSK	2402	SISO	1	1.189	Only for Report Use
	2441	SISO	1	1.195	Only for Report Use
	2480	SISO	1	1.190	Only for Report Use

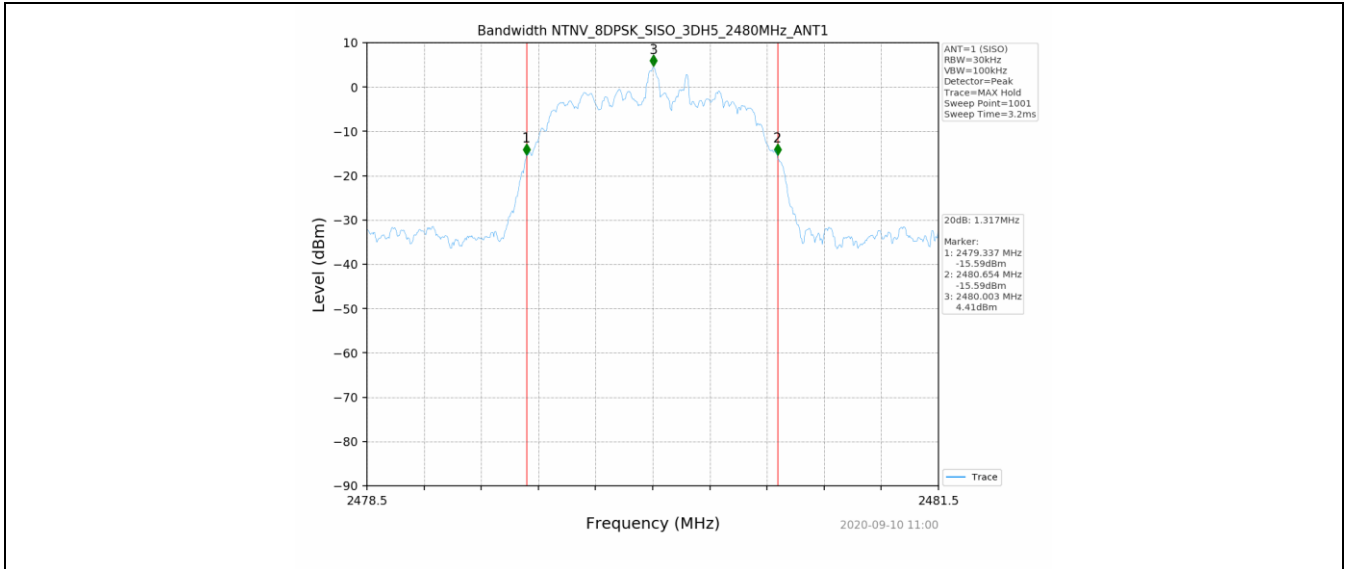
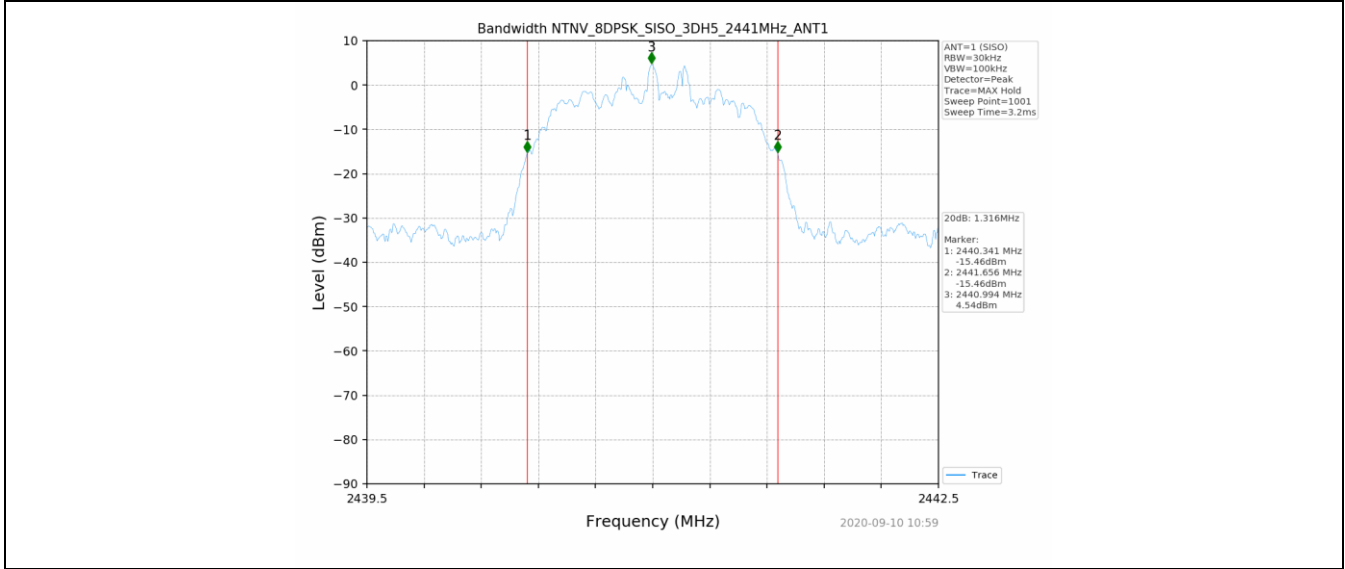
1.2 Test Graph - 20dB Bandwidth



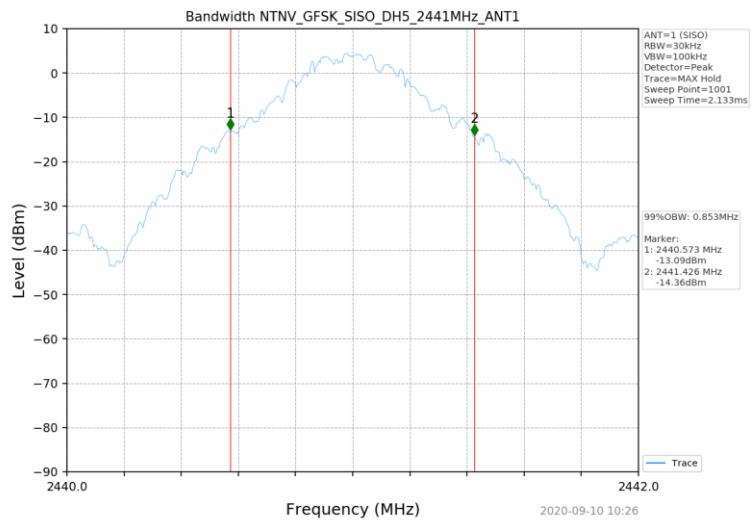
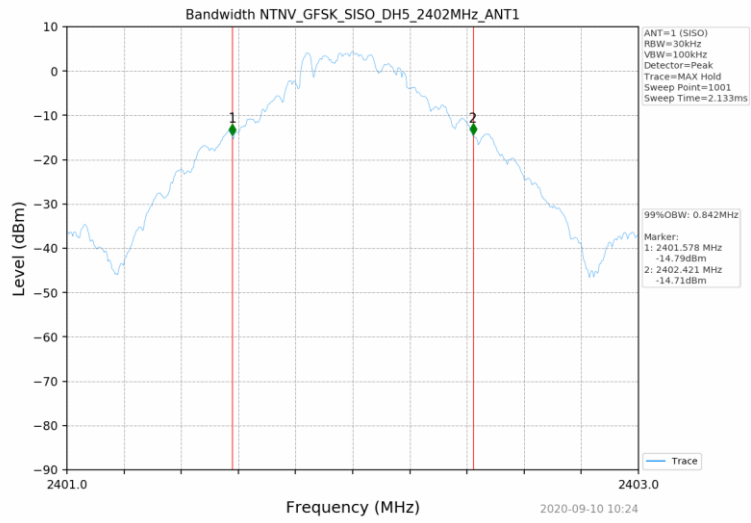


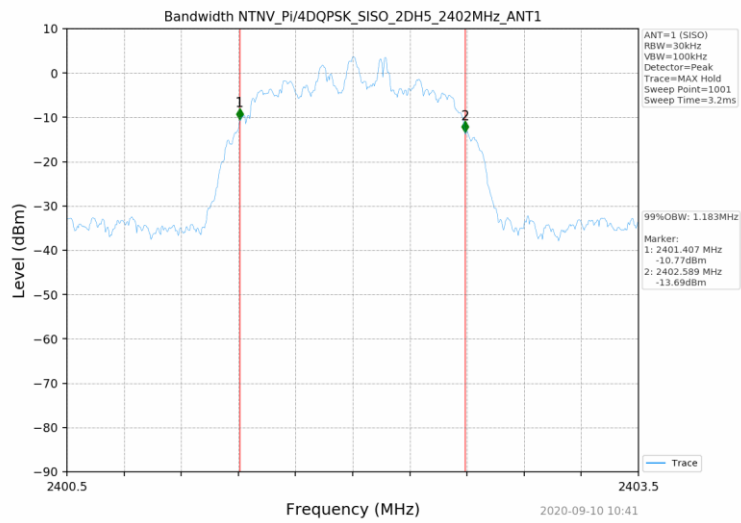
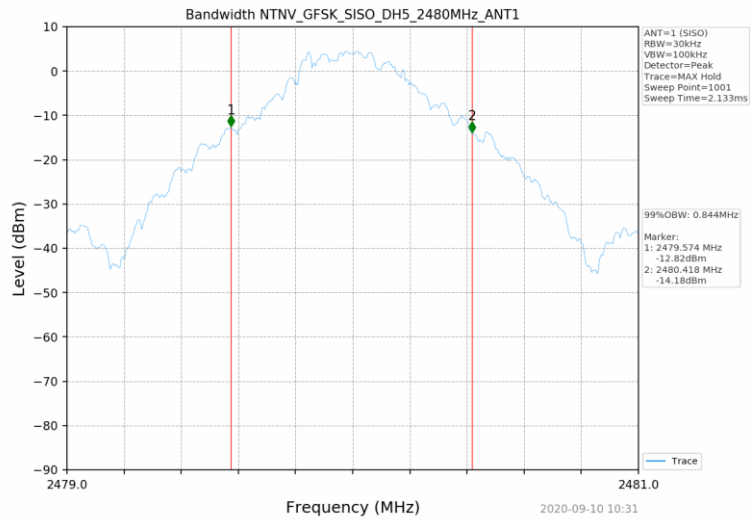


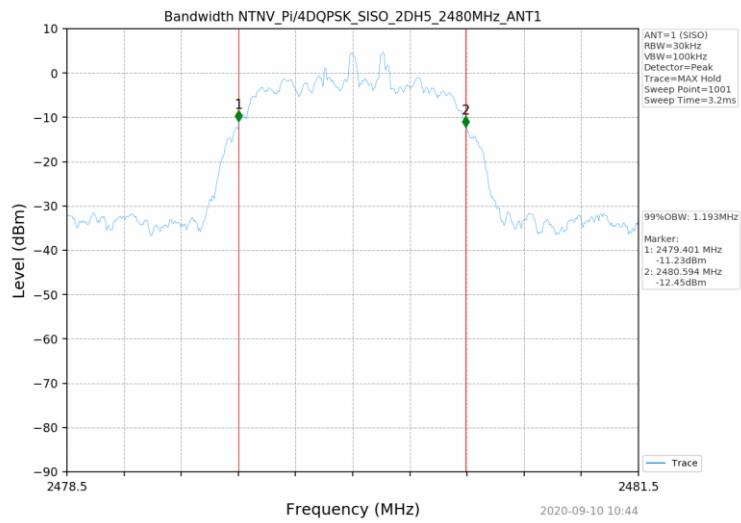
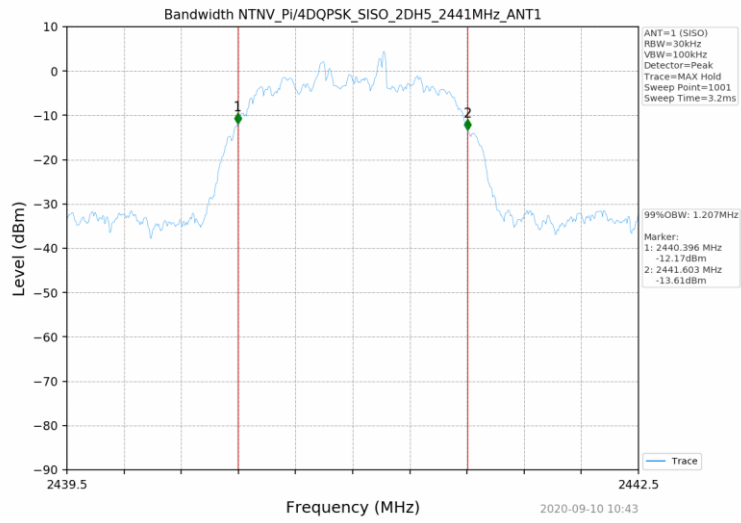


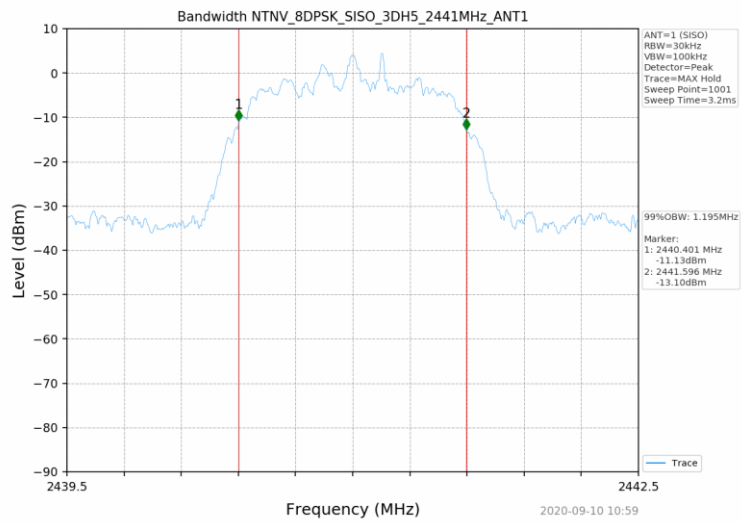
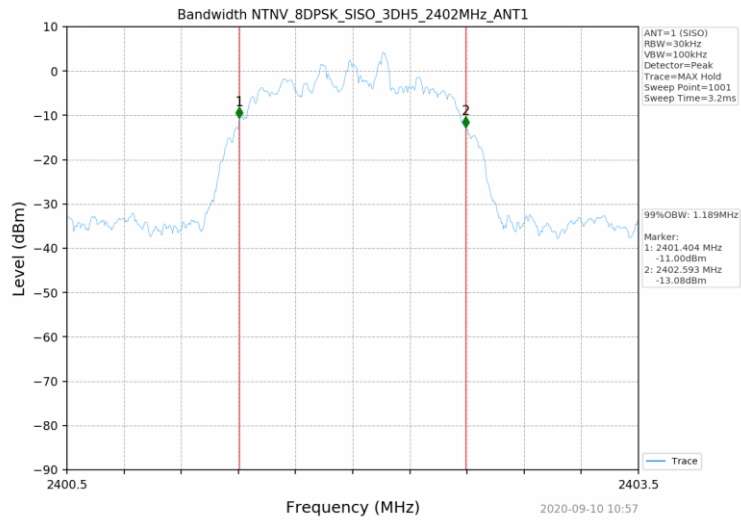


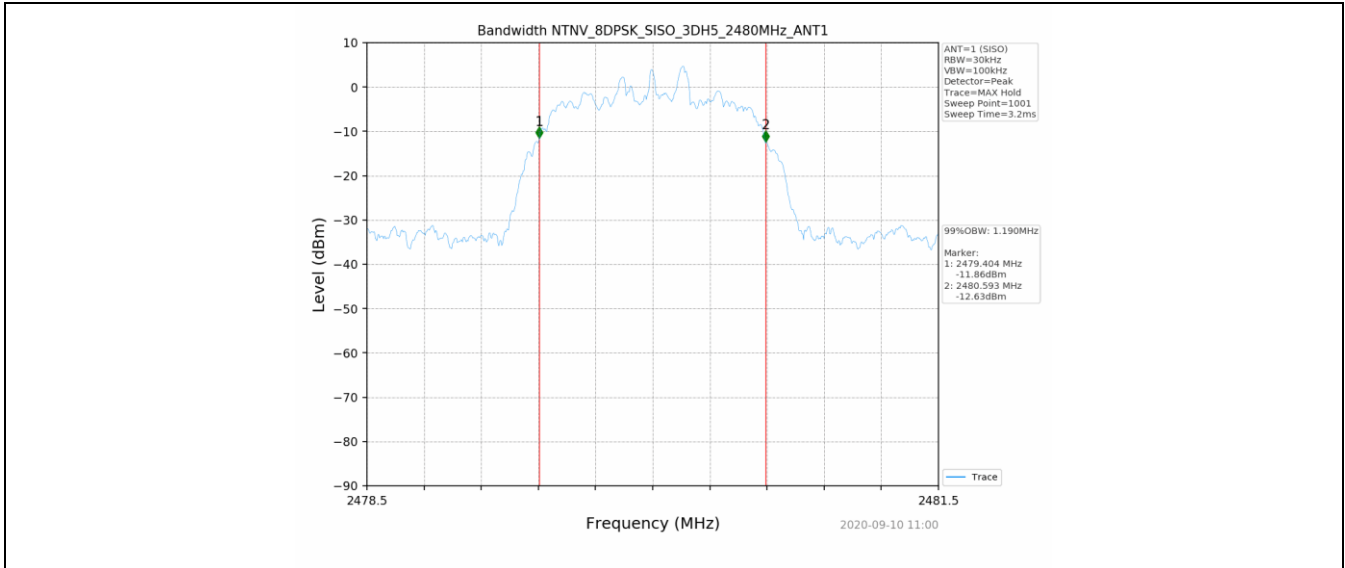
1.3 Test Graph - 99% Occupied Bandwidth









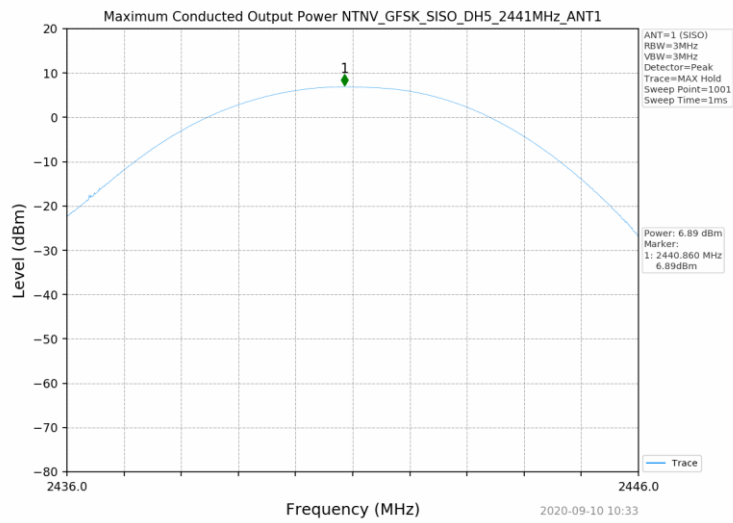
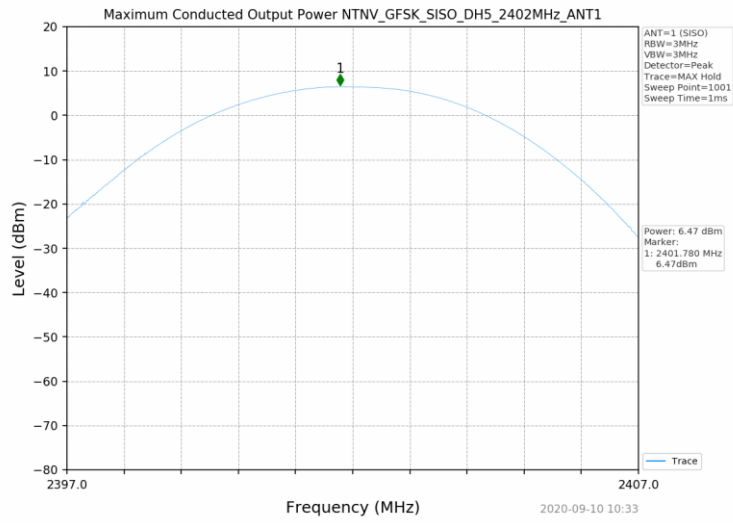


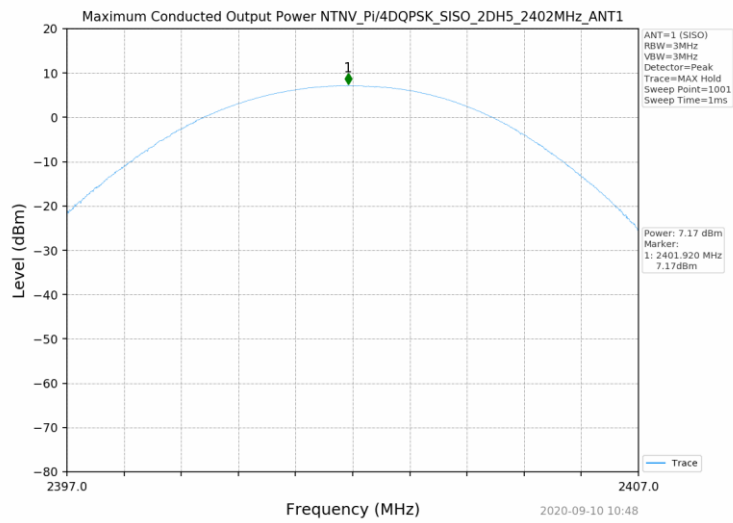
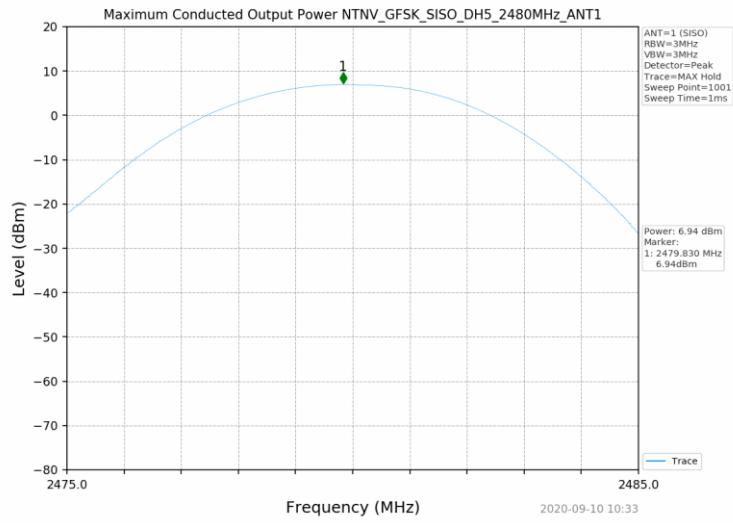
2. Maximum Conducted Output Power

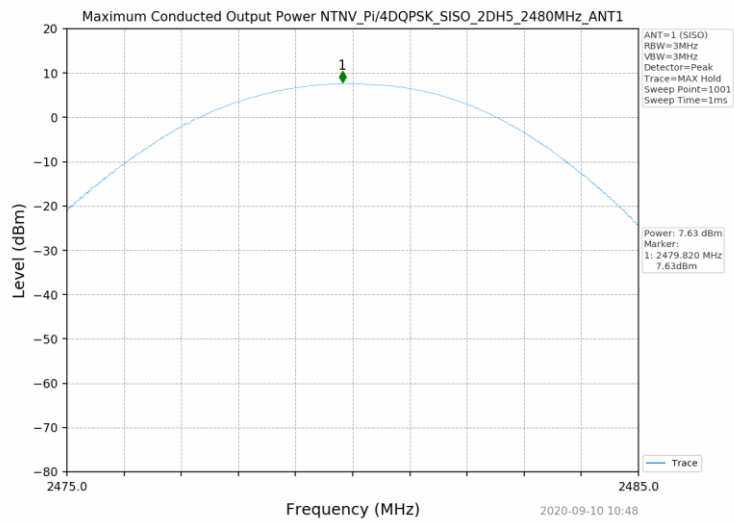
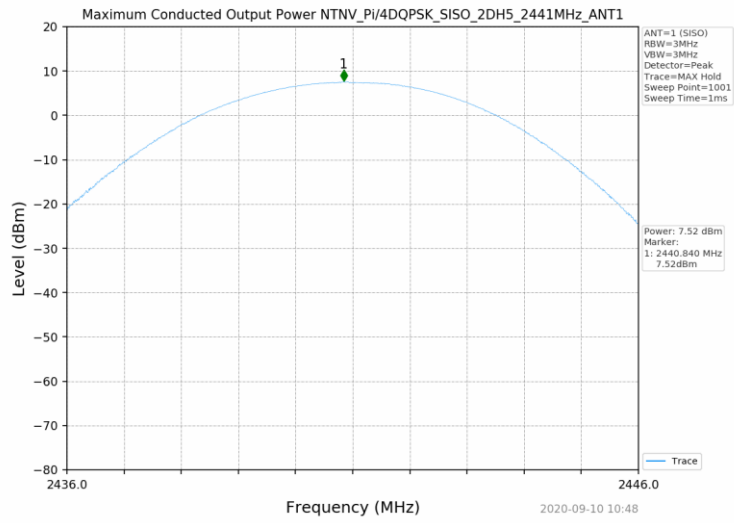
2.1 Test Result

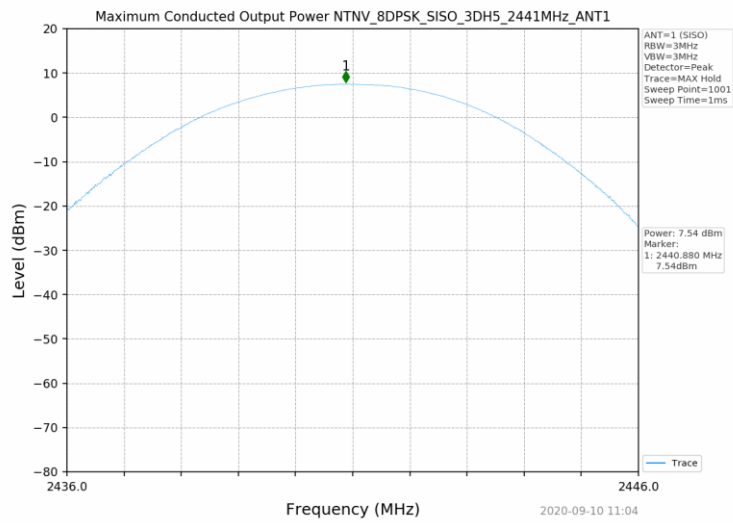
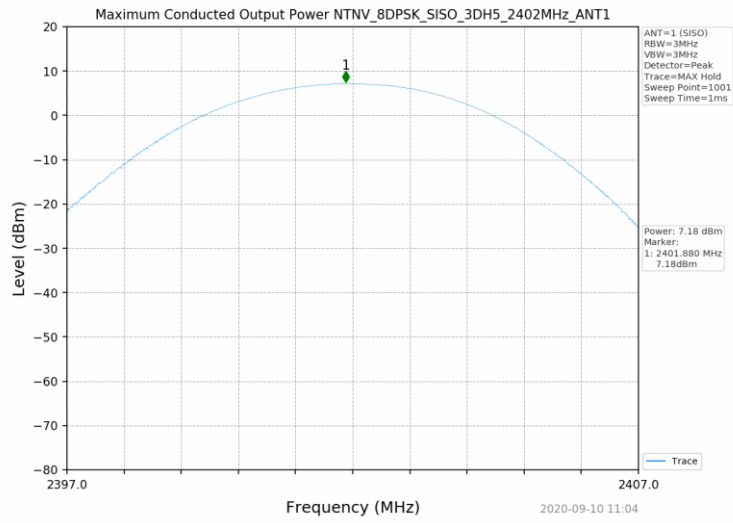
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	6.47	30	PASS
	2441	SISO	6.89	30	PASS
	2480	SISO	6.94	30	PASS
Pi/4DQPSK	2402	SISO	7.17	20.97	PASS
	2441	SISO	7.52	20.97	PASS
	2480	SISO	7.63	20.97	PASS
8DPSK	2402	SISO	7.18	20.97	PASS
	2441	SISO	7.54	20.97	PASS
	2480	SISO	7.64	20.97	PASS

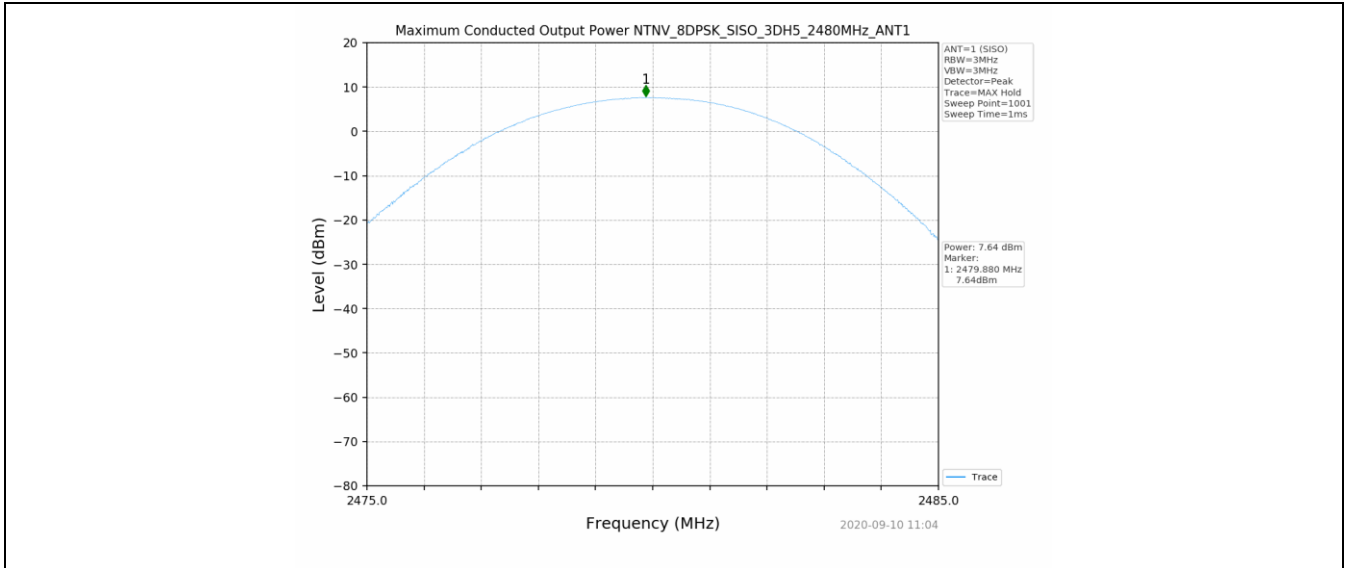
2.2 Test Graph









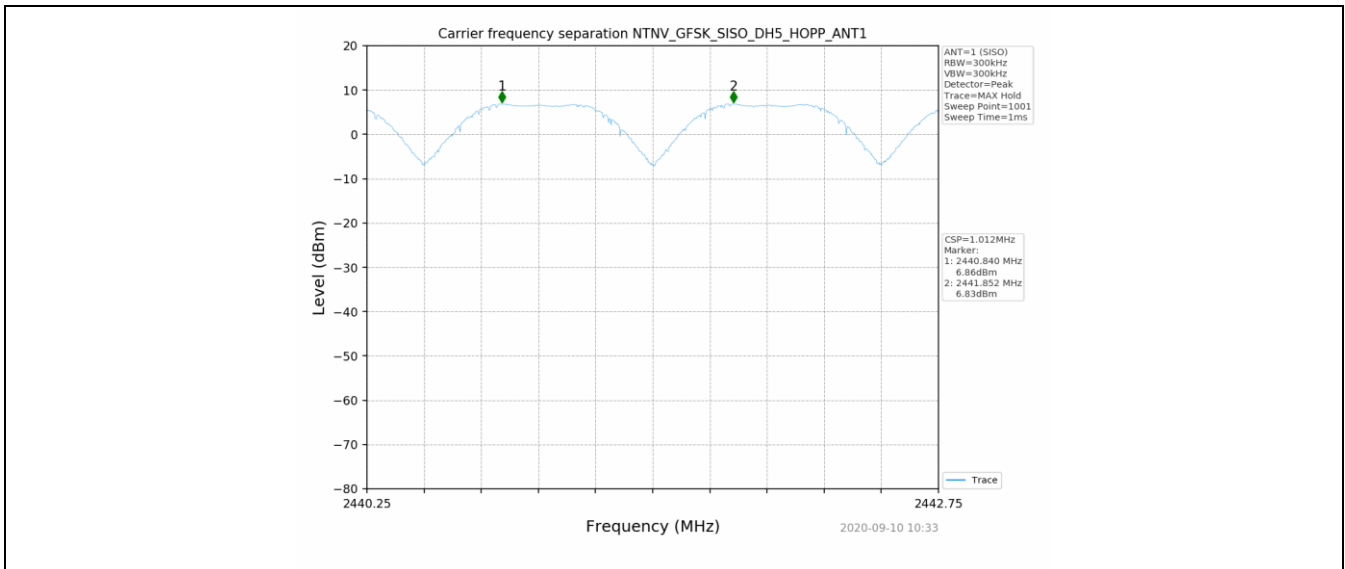


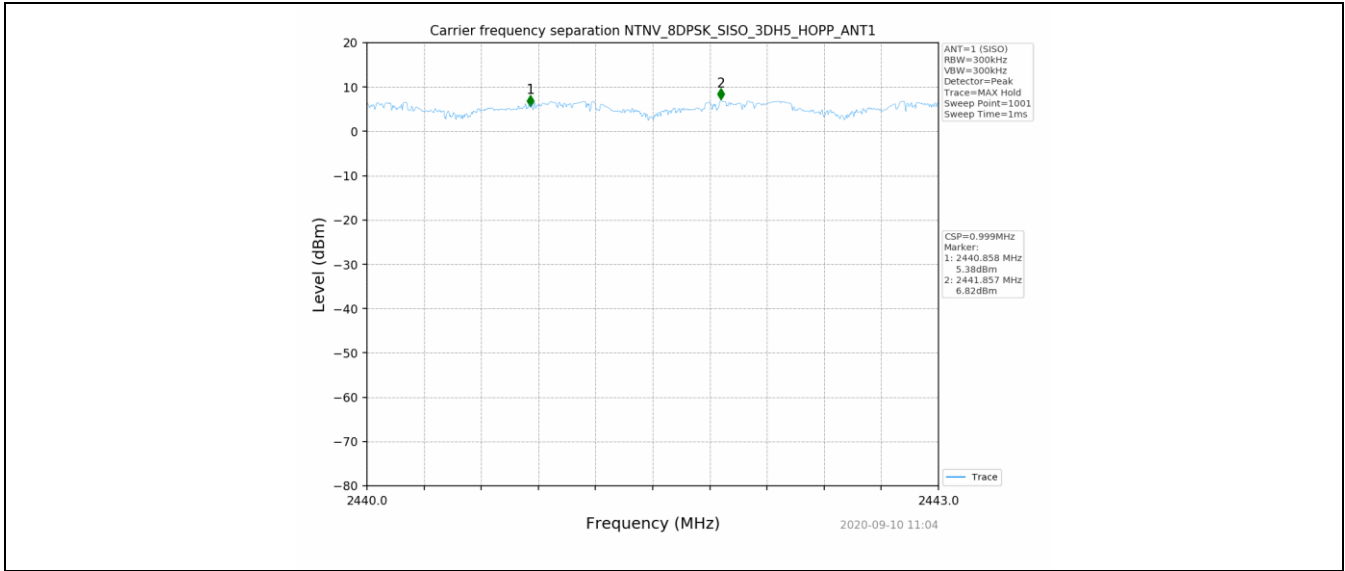
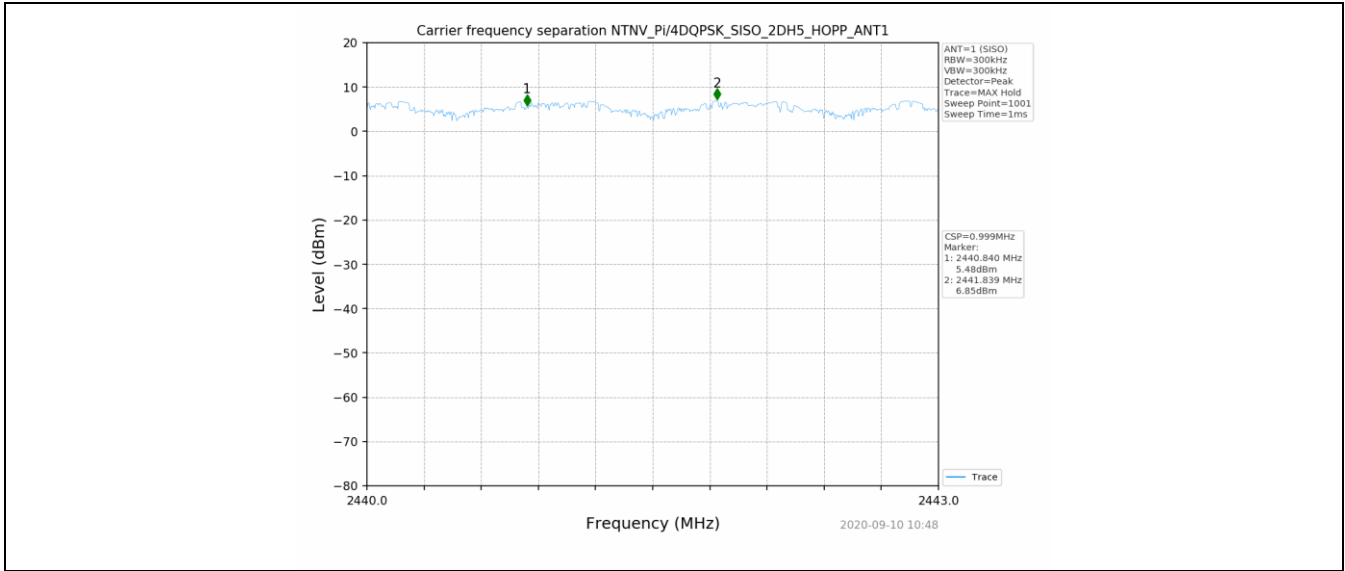
3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.012	0.952	≥ 0.952	PASS
Pi/4DQPSK	SISO	1	0.999	1.328	≥ 0.885	PASS
8DPSK	SISO	1	0.999	1.317	≥ 0.878	PASS

3.2 Test Graph



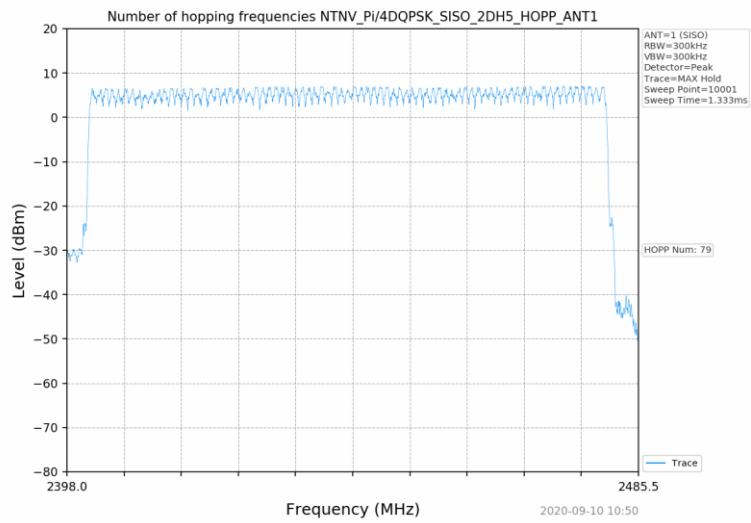
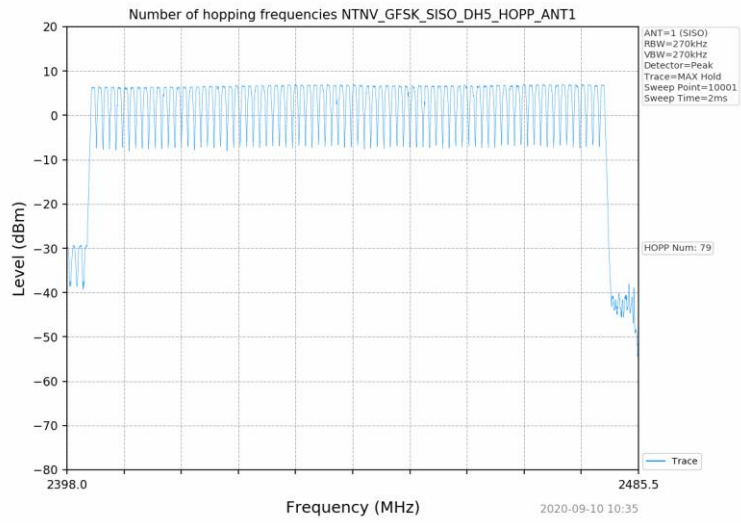


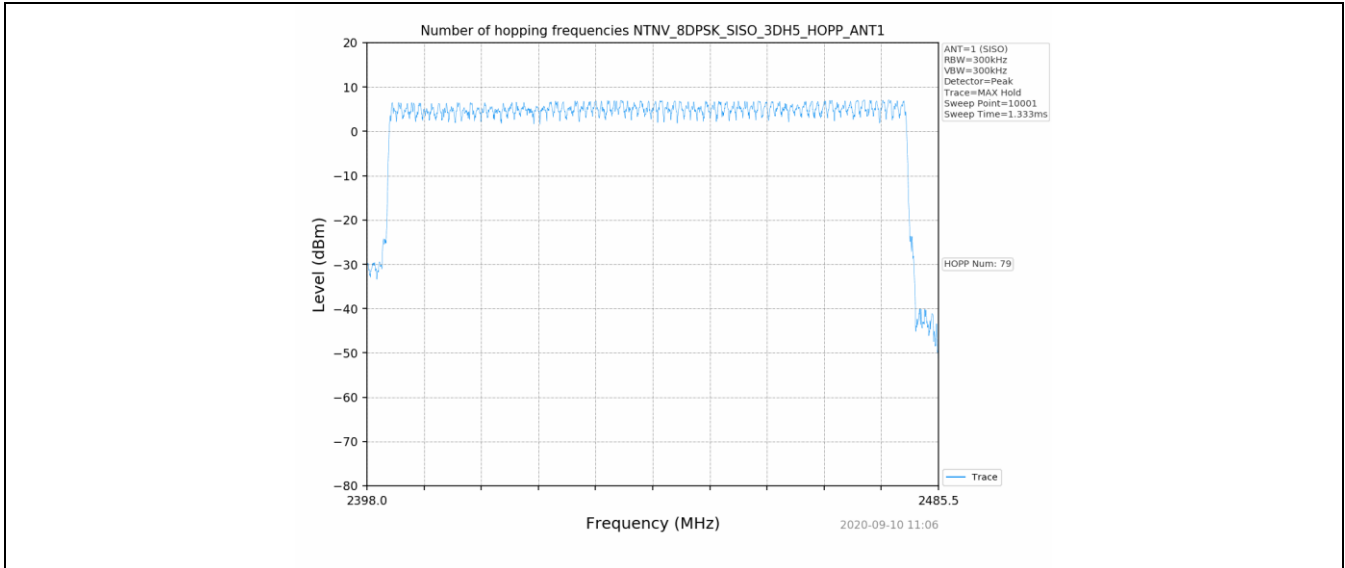
4. Number of hopping frequencies

4.1 Test Result

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

4.2 Test Graph



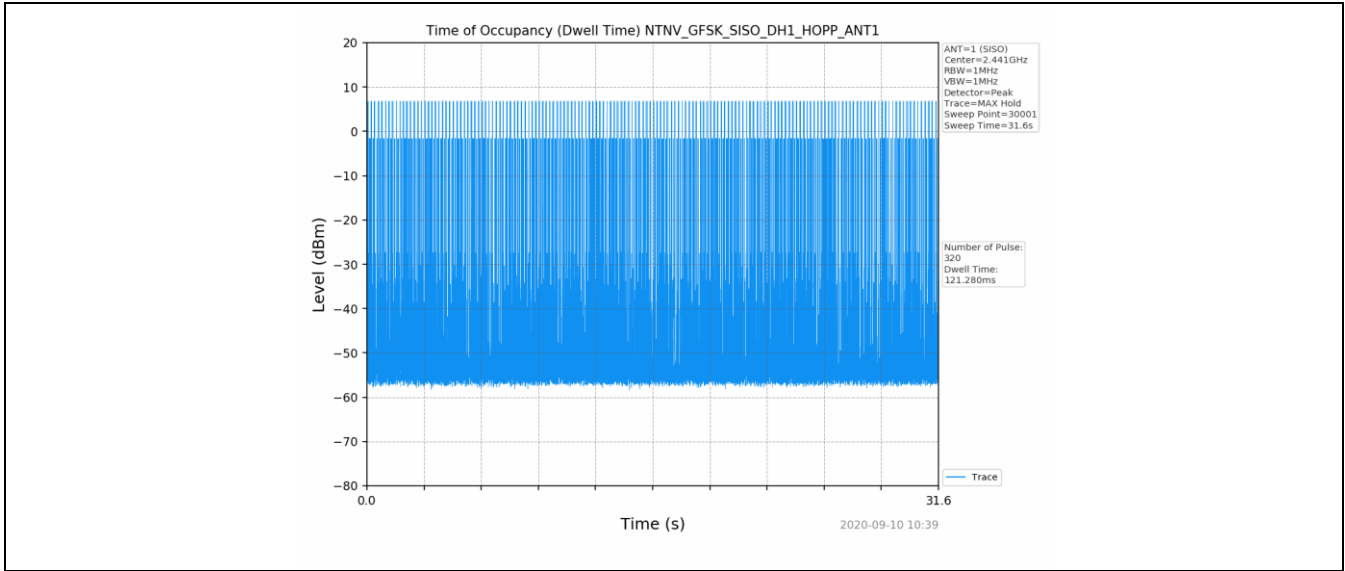
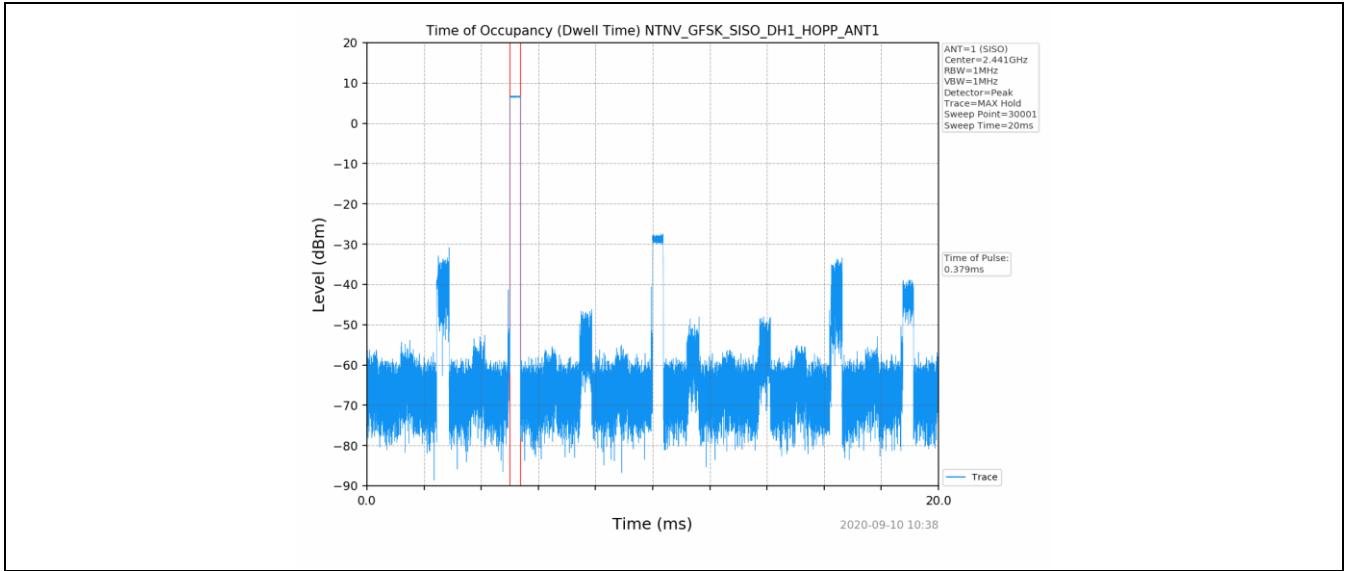


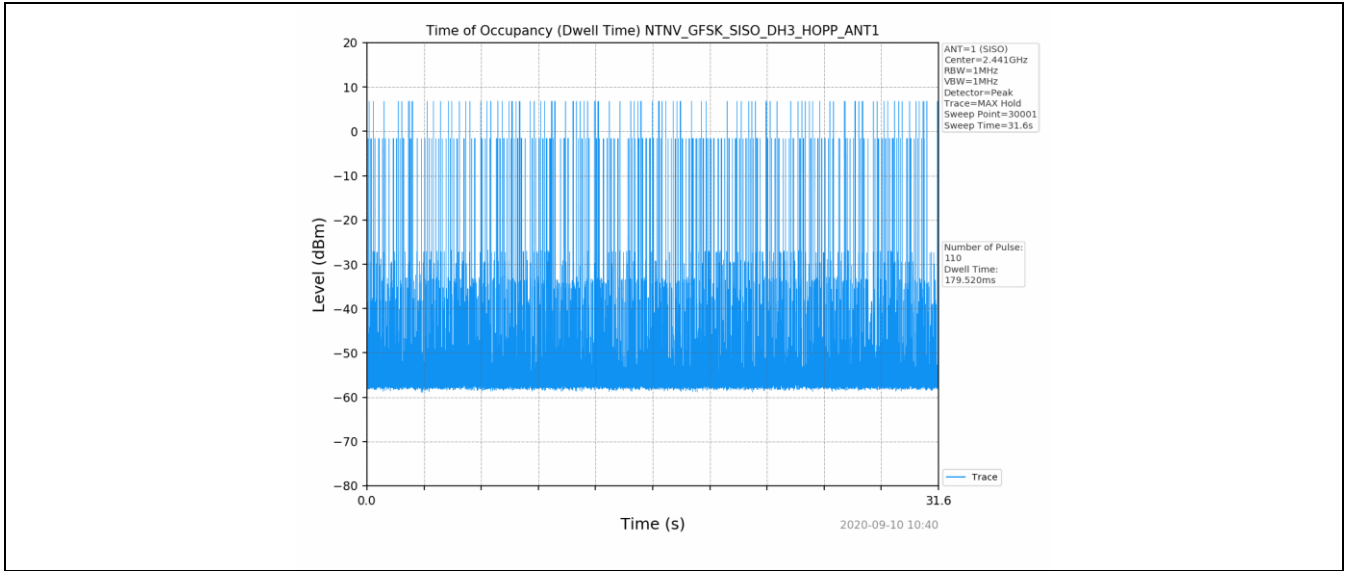
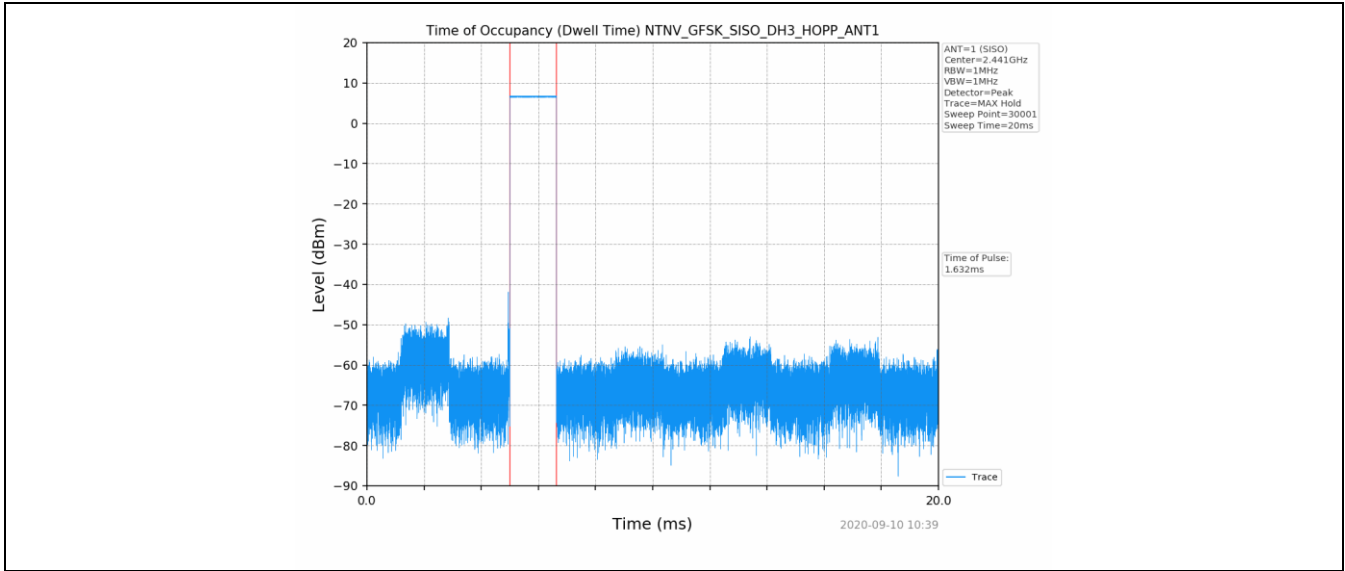
5. Time of Occupancy (Dwell Time)

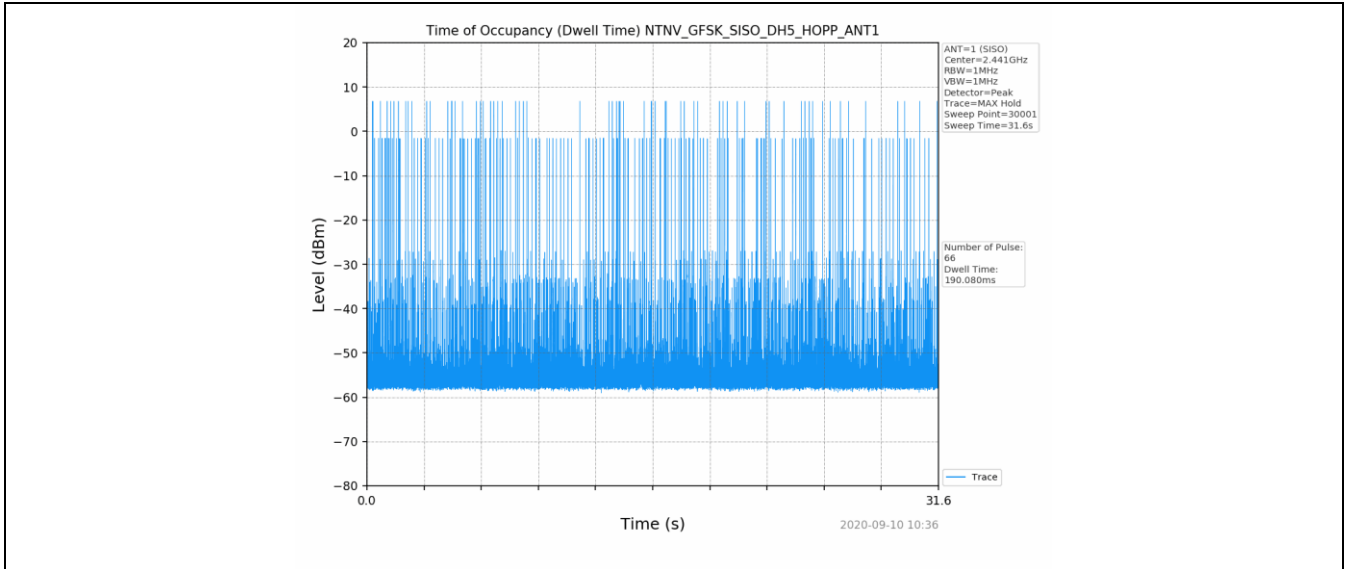
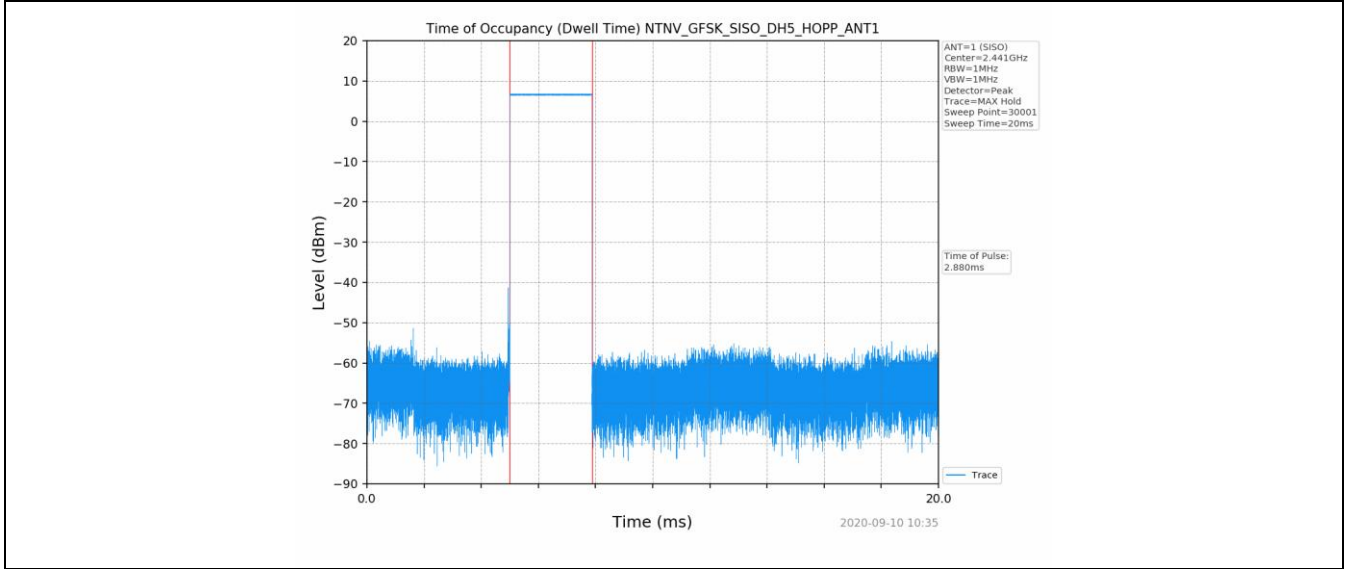
5.1 Test Result

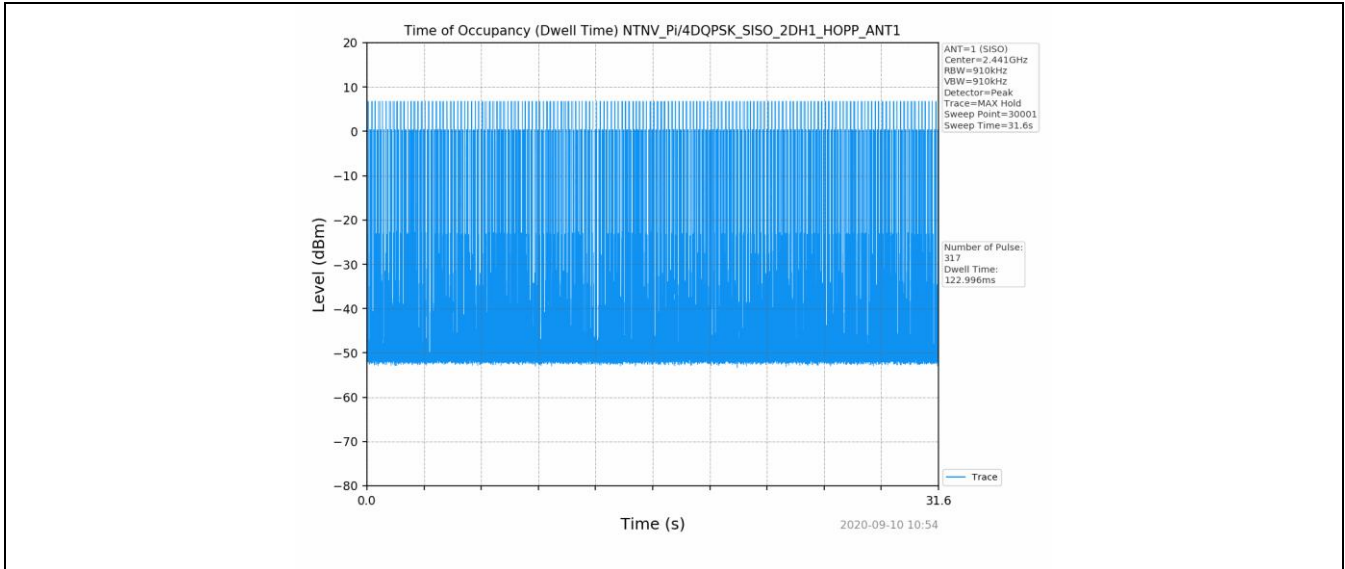
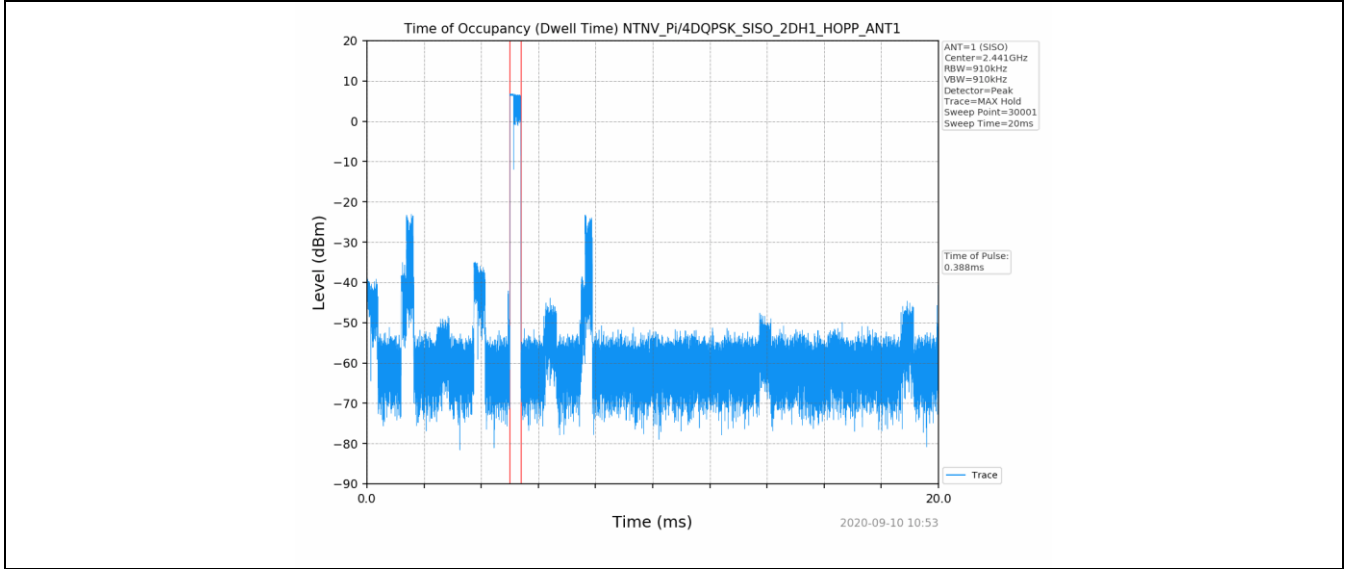
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.379	31.6	320	121.280	≤400	PASS
	DH3	SISO	1	1.632	31.6	110	179.520	≤400	PASS
	DH5	SISO	1	2.880	31.6	66	190.080	≤400	PASS
Pi/4D QPS K	2DH1	SISO	1	0.388	31.6	317	122.996	≤400	PASS
	2DH3	SISO	1	1.639	31.6	95	155.705	≤400	PASS
	2DH5	SISO	1	2.887	31.6	64	184.768	≤400	PASS
8DPS K	3DH1	SISO	1	0.388	31.6	318	123.384	≤400	PASS
	3DH3	SISO	1	1.640	31.6	94	154.160	≤400	PASS
	3DH5	SISO	1	2.889	31.6	72	208.008	≤400	PASS

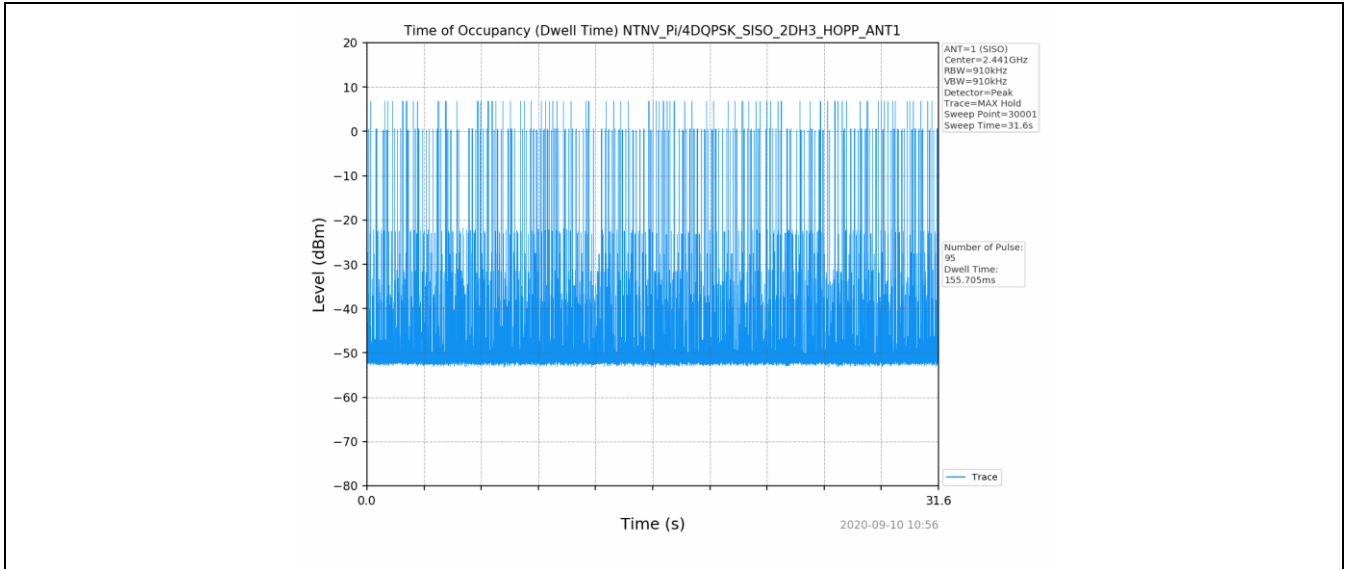
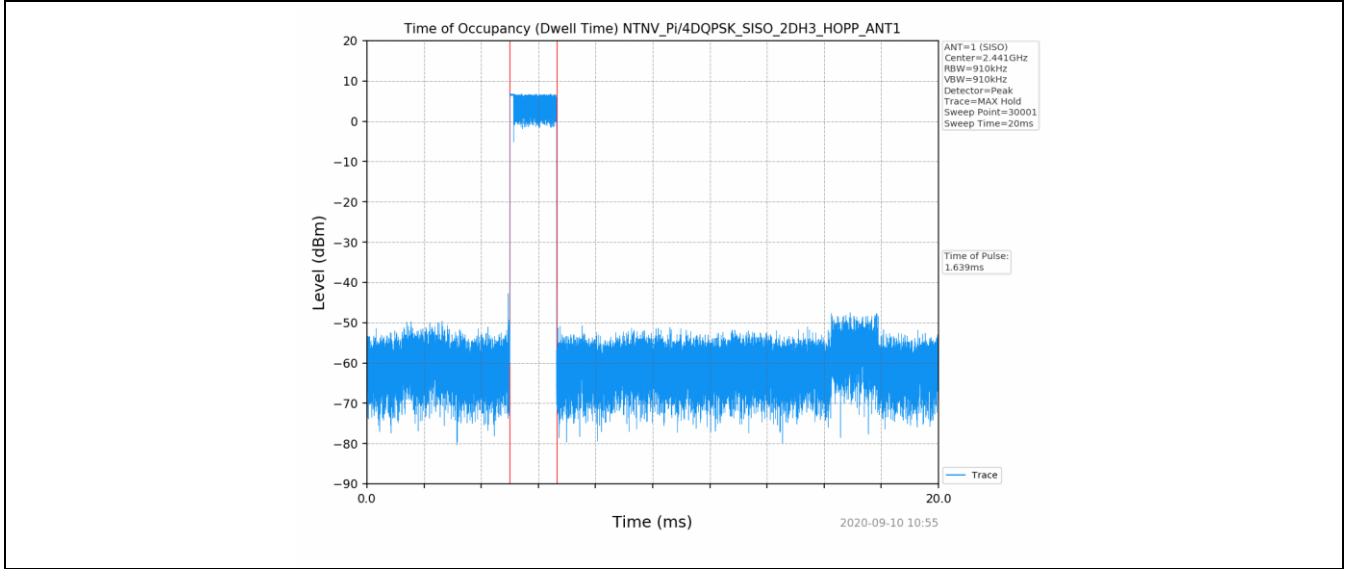
5.2 Test Graph

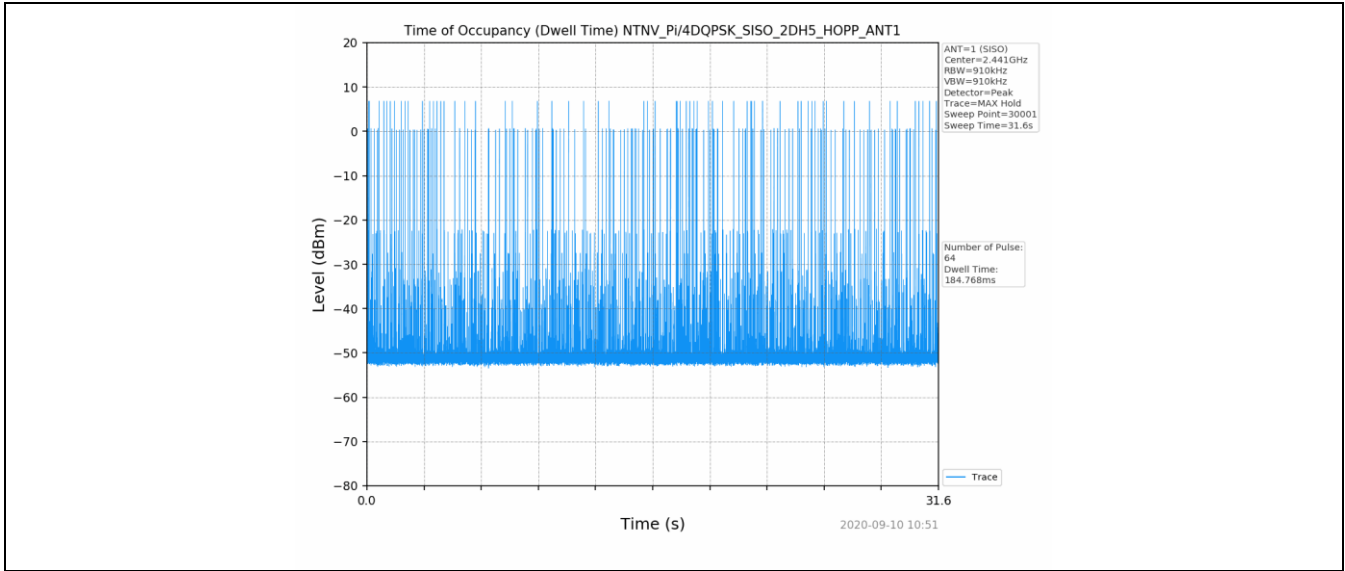
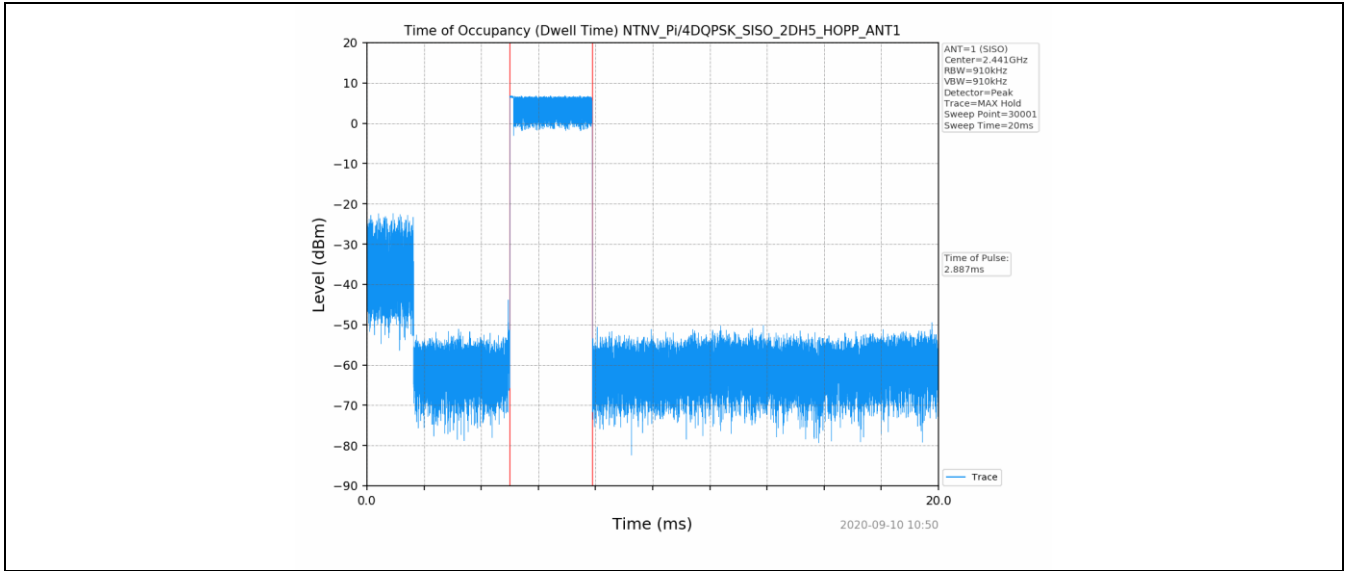


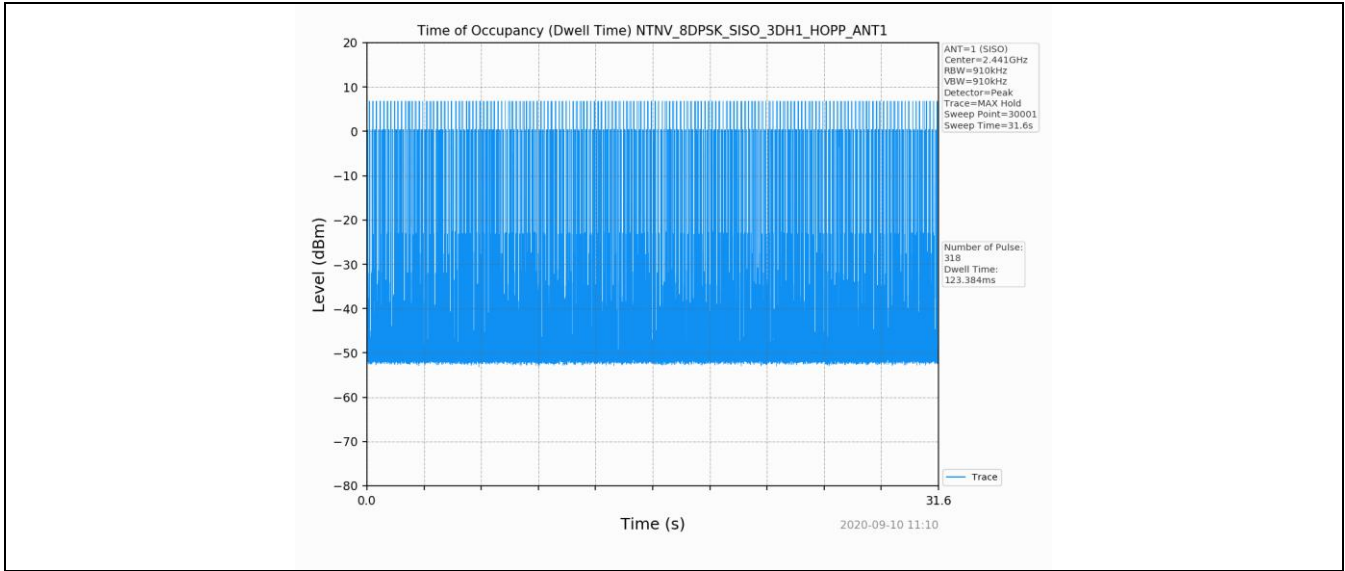
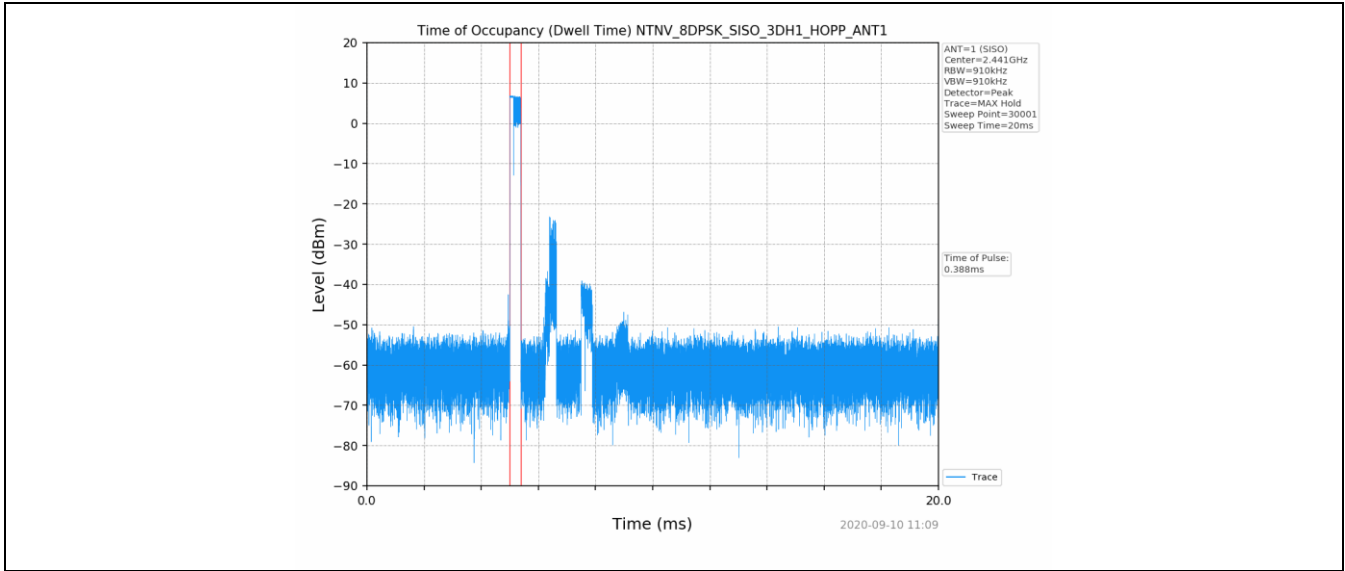


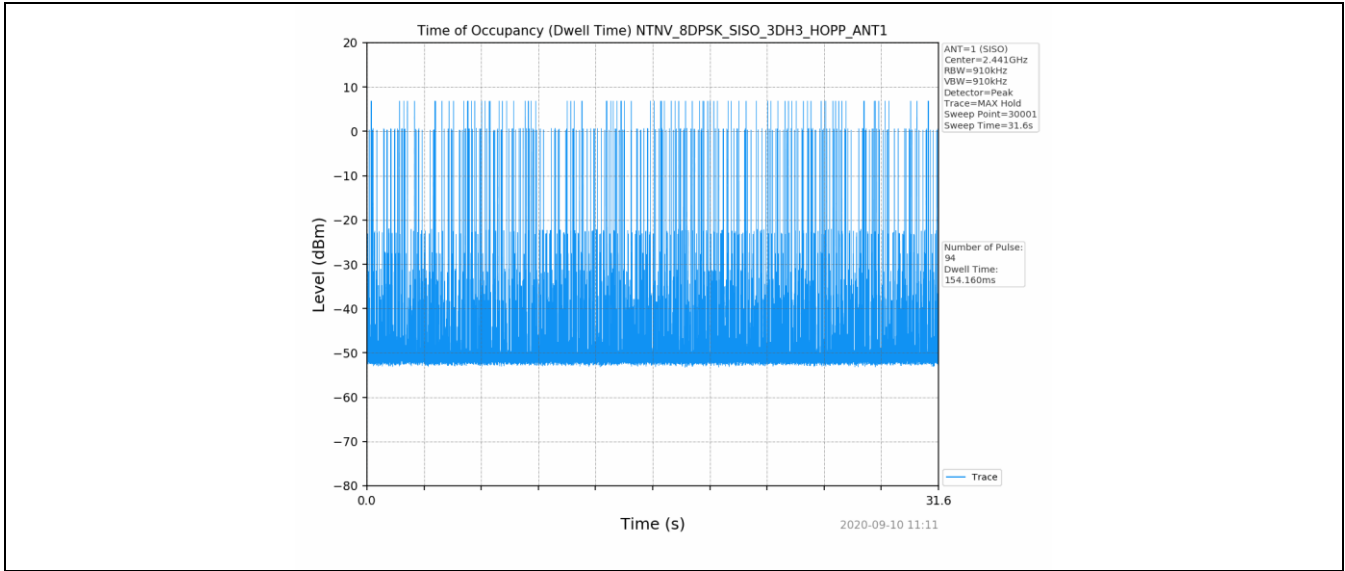
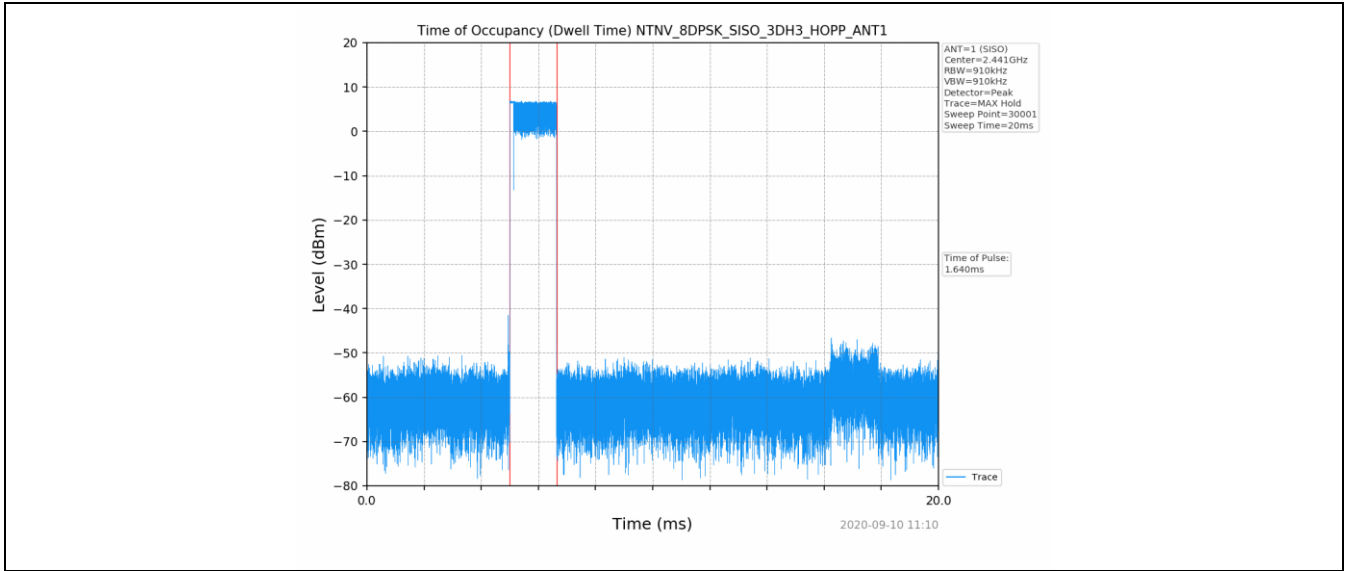


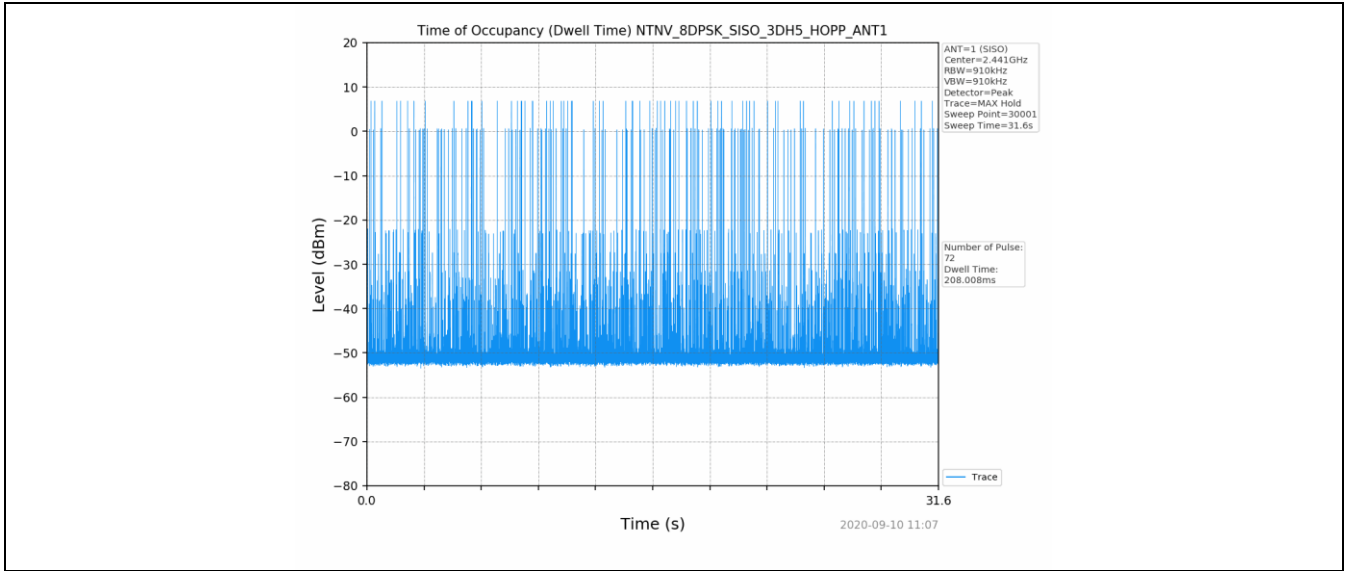
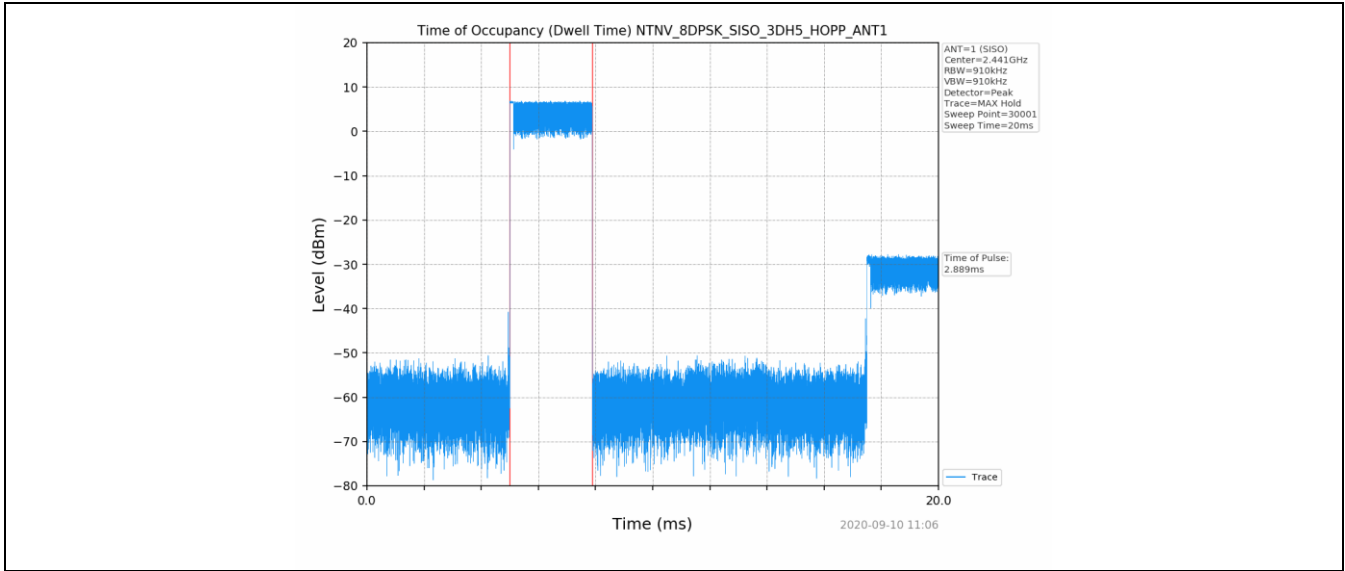












6. Unwanted Emissions in Non-restricted Frequency Bands

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	-13.11	PASS
	2441	SISO	1	Refer to test graph	-13.11	PASS
	2480	SISO	1	Refer to test graph	-13.11	PASS
	Hopping	SISO	1	Refer to test graph	-13.11	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-13.16	PASS
	2441	SISO	1	Refer to test graph	-13.16	PASS
	2480	SISO	1	Refer to test graph	-13.16	PASS
	Hopping	SISO	1	Refer to test graph	-13.16	PASS
8DPSK	2402	SISO	1	Refer to test graph	-13.16	PASS

	2441	SISO	1	Refer to test graph	-13.16	PASS
	2480	SISO	1	Refer to test graph	-13.16	PASS
	Hopping	SISO	1	Refer to test graph	-13.16	PASS

6.2 Test Graph

