

Annex for Bluetooth BR&EDR Part 15.247

Test Report No. : CTL2006182101-WF01

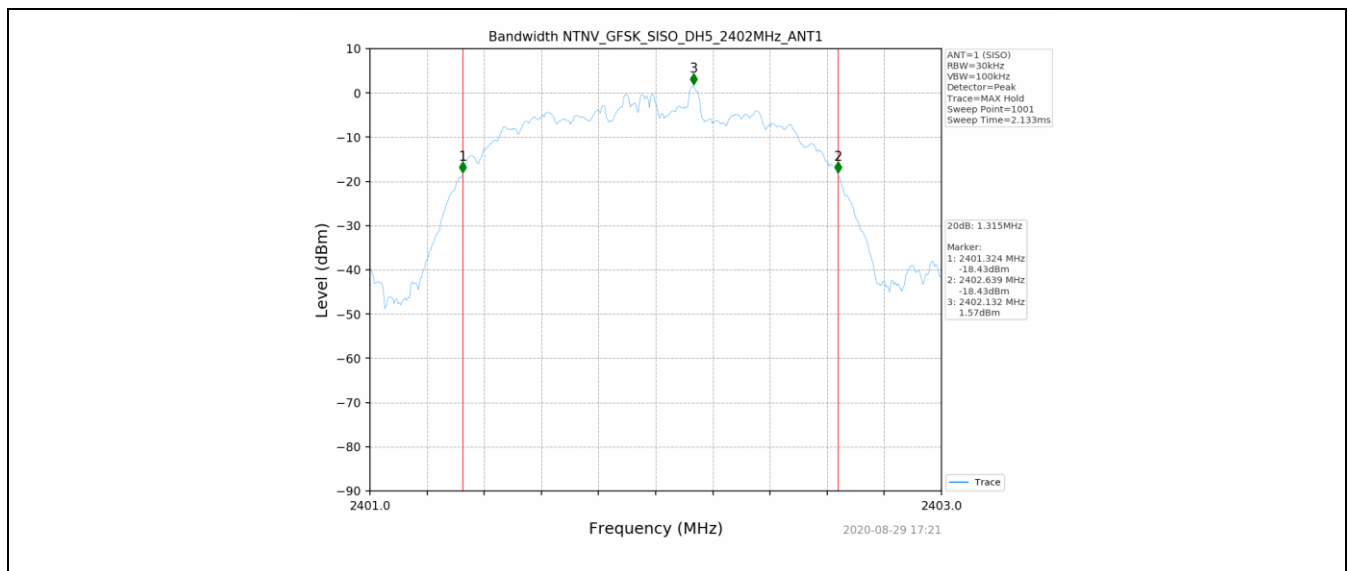
1. Bandwidth

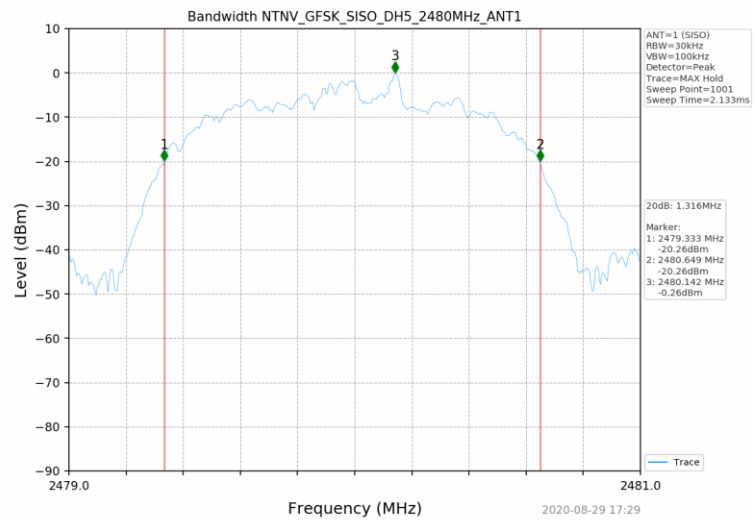
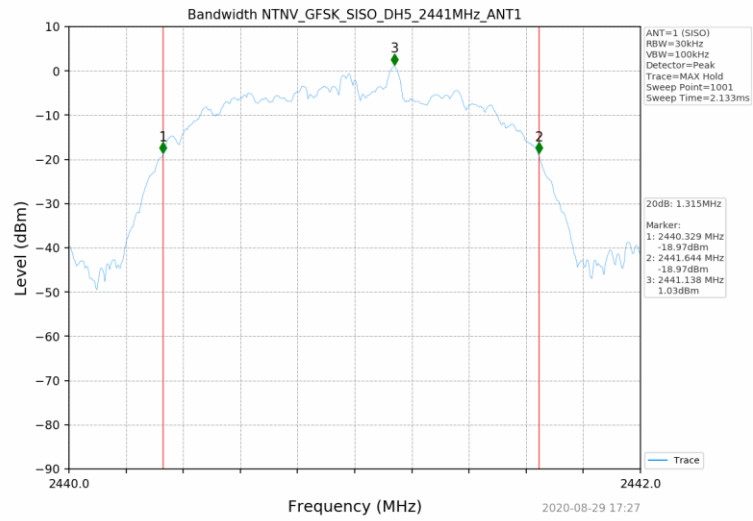
1.1 Test Result

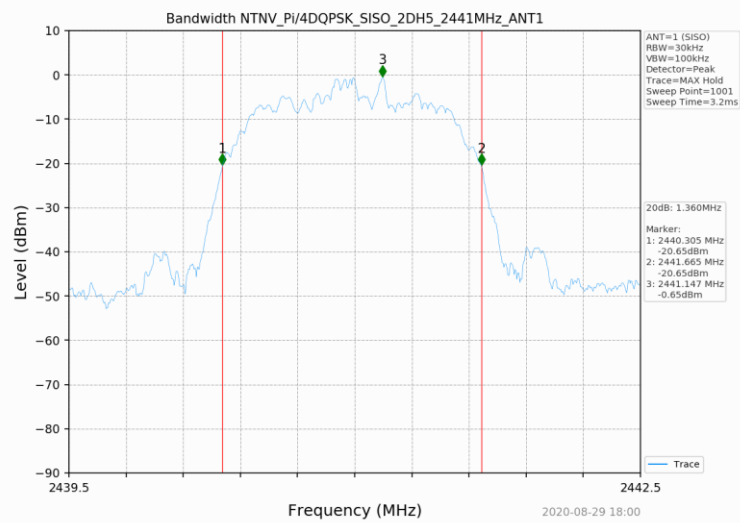
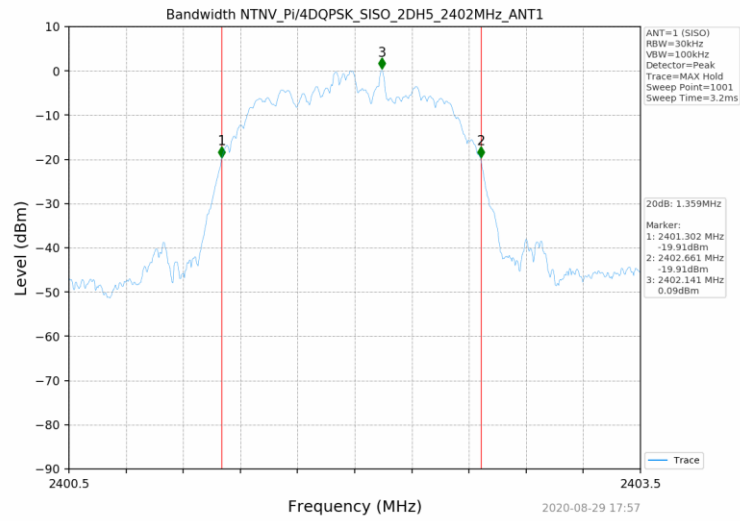
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	1.315	PASS
	2441	SISO	1	1.315	PASS
	2480	SISO	1	1.316	PASS
Pi/4DQPSK	2402	SISO	1	1.359	PASS
	2441	SISO	1	1.360	PASS
	2480	SISO	1	1.357	PASS
8DPSK	2402	SISO	1	1.312	PASS
	2441	SISO	1	1.340	PASS
	2480	SISO	1	1.336	PASS

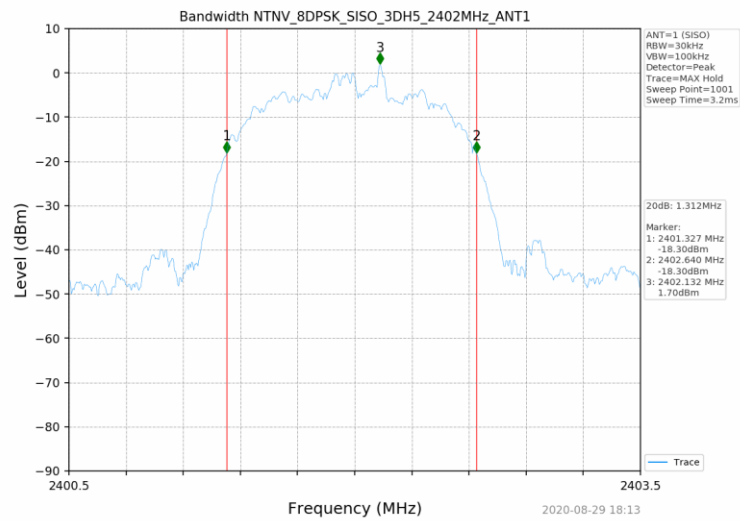
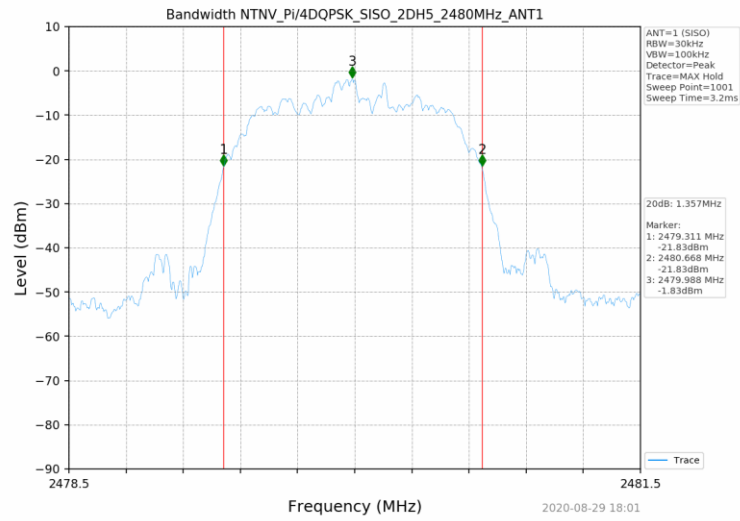
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	1.210	Only for Report Use
	2441	SISO	1	1.207	Only for Report Use
	2480	SISO	1	1.216	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.208	Only for Report Use
	2441	SISO	1	1.203	Only for Report Use
	2480	SISO	1	1.209	Only for Report Use
8DPSK	2402	SISO	1	1.210	Only for Report Use
	2441	SISO	1	1.211	Only for Report Use
	2480	SISO	1	1.210	Only for Report Use

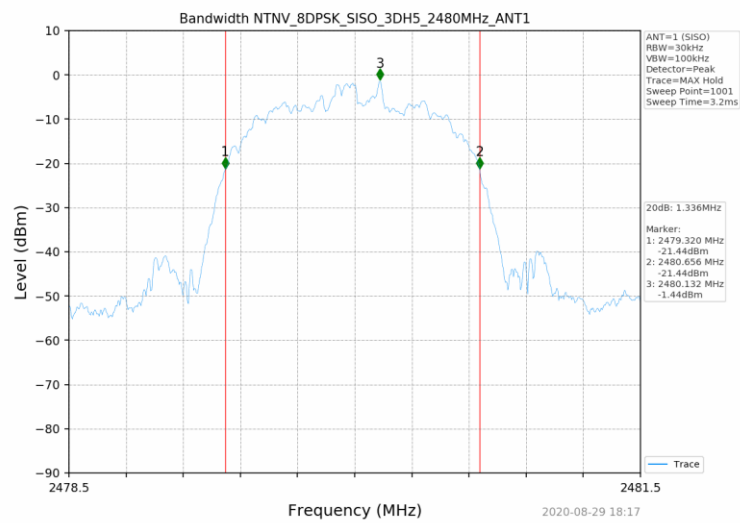
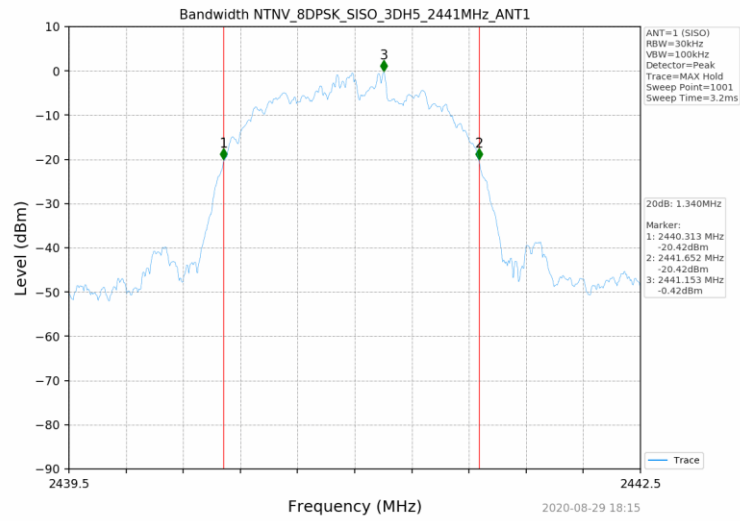
1.2 Test Graph - 20dB Bandwidth



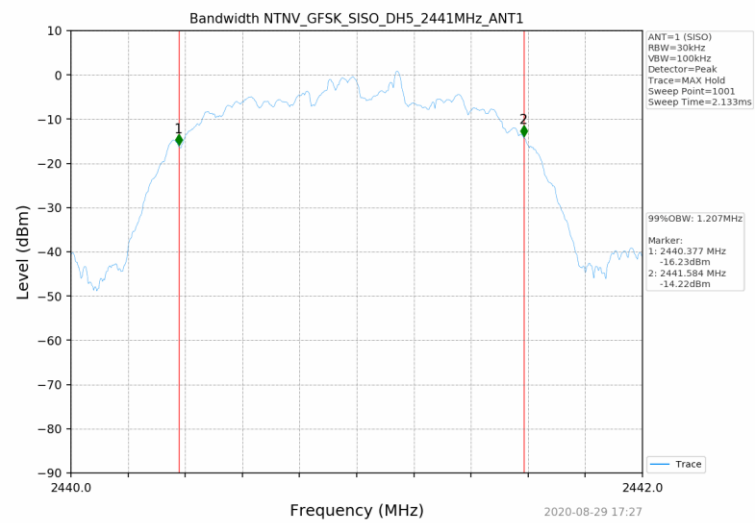
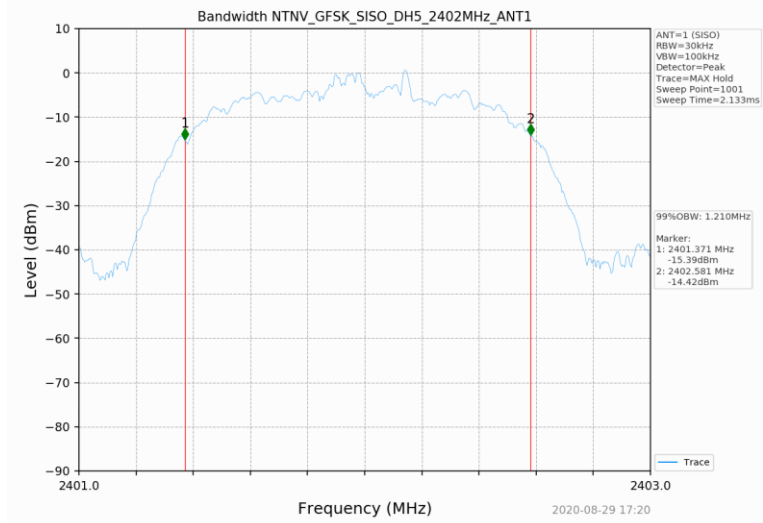


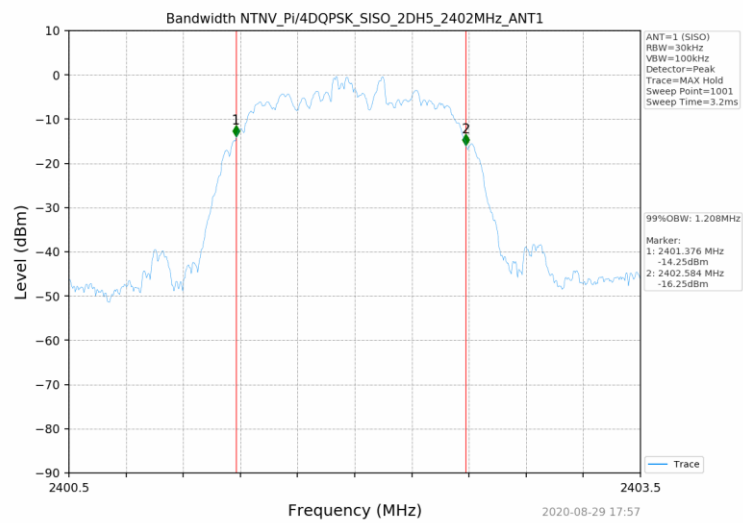
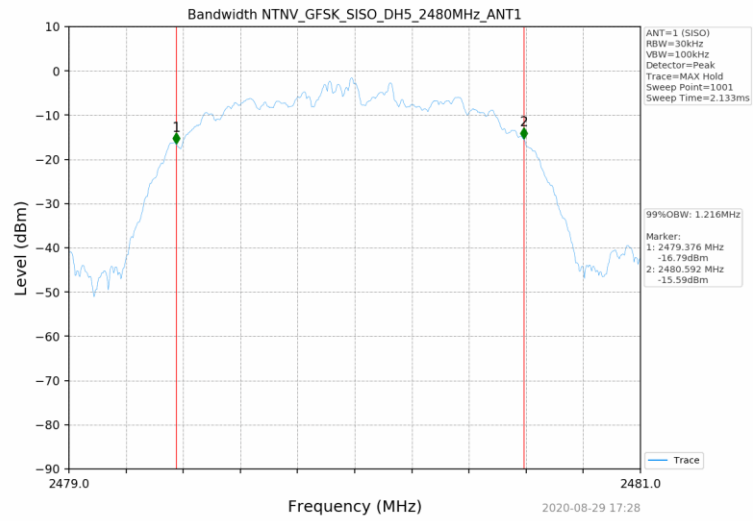


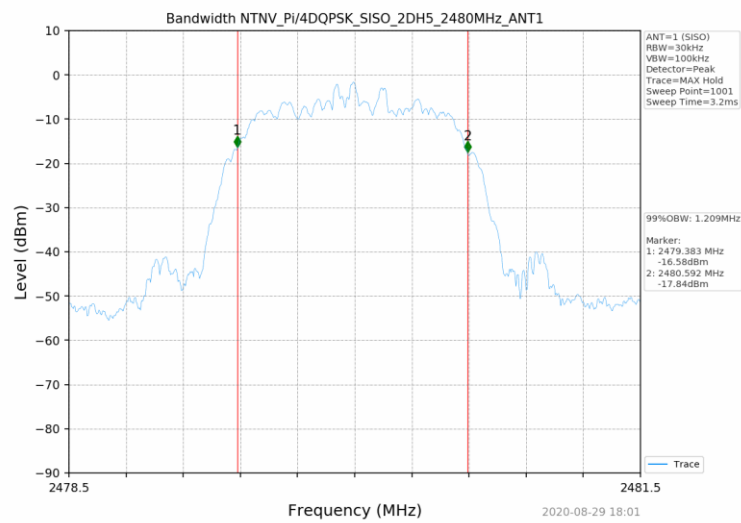
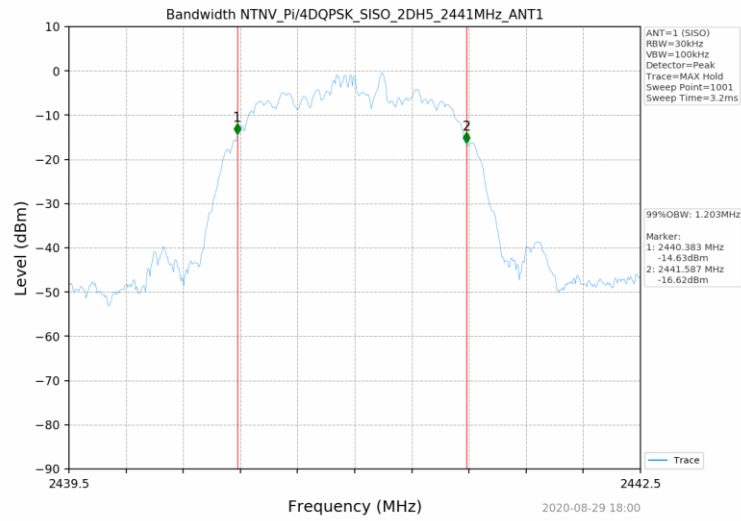


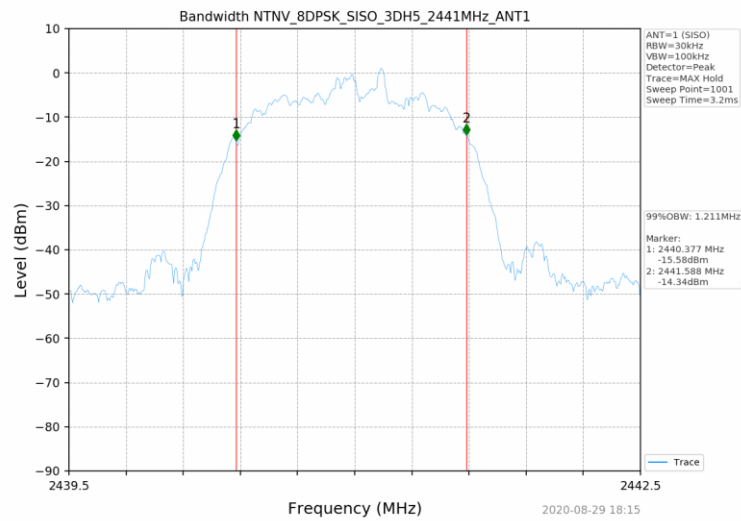
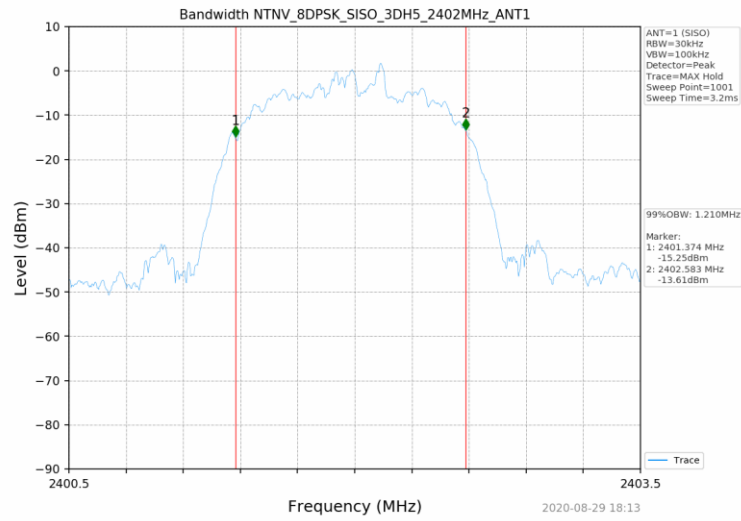


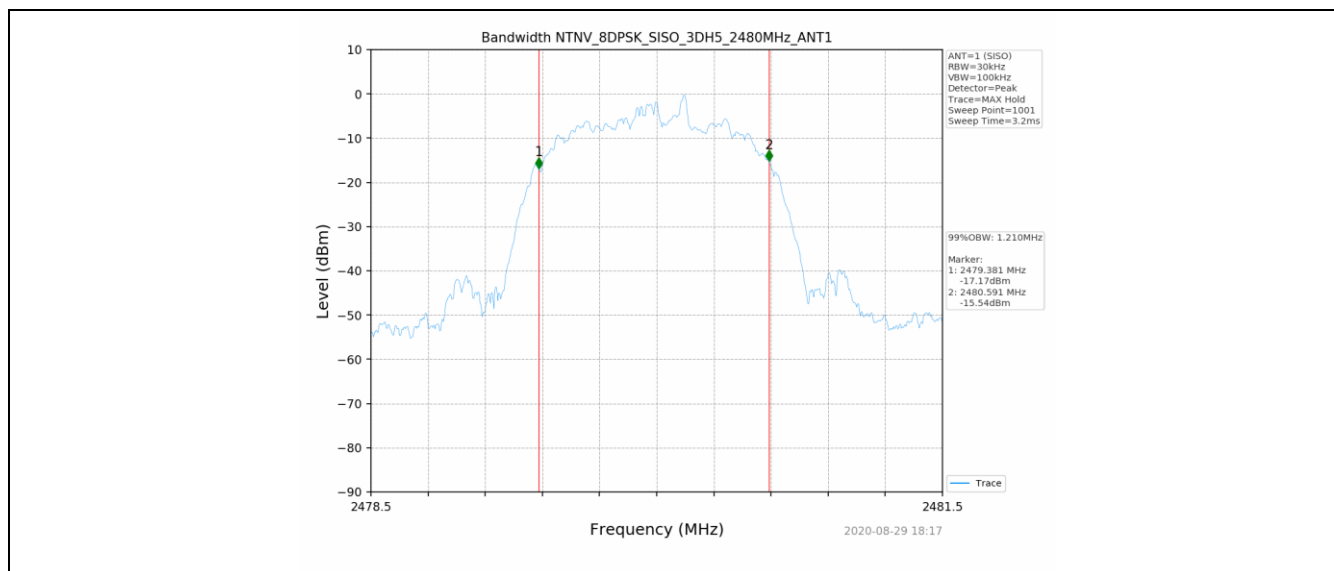
1.3 Test Graph - 99% Occupied Bandwidth









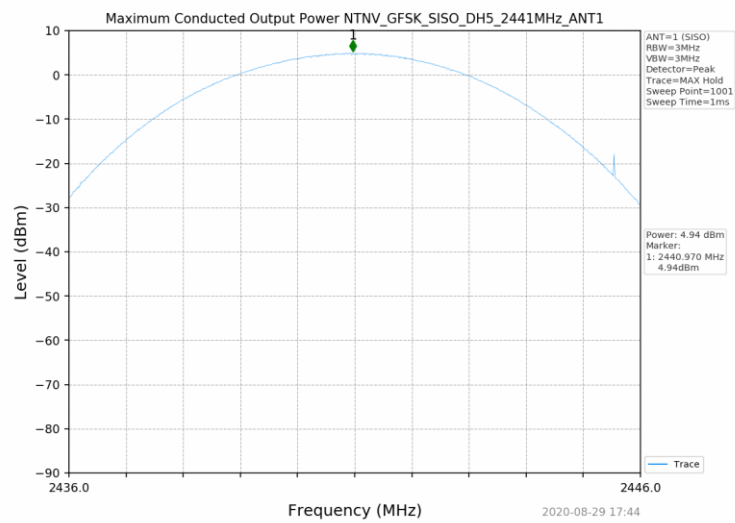
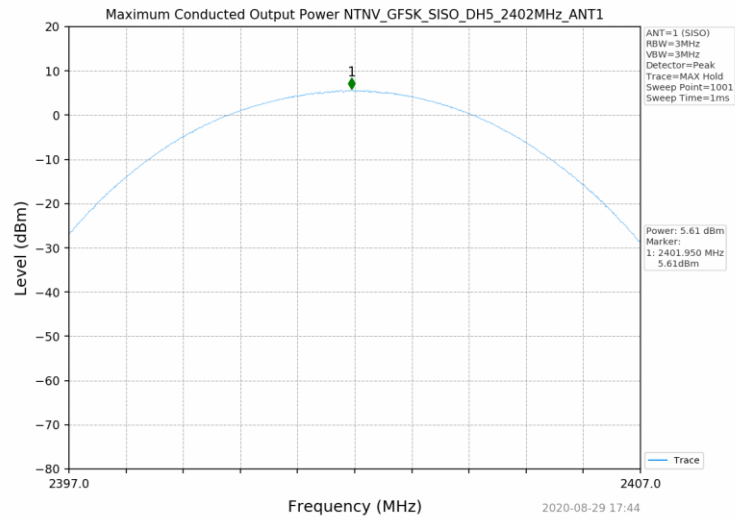


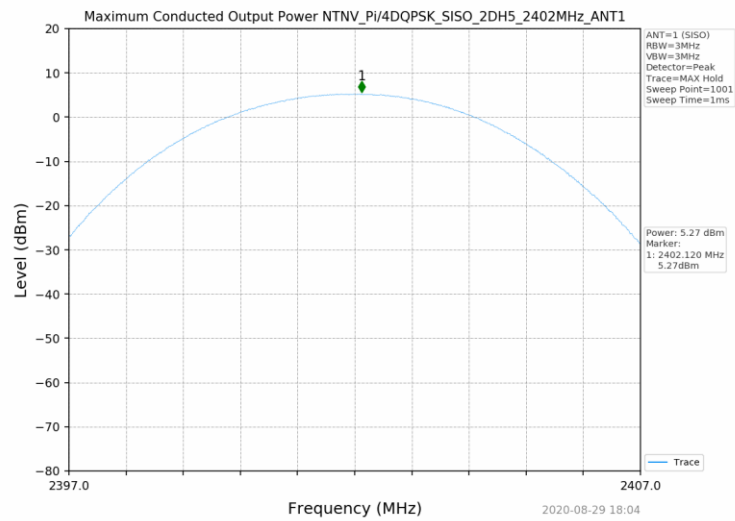
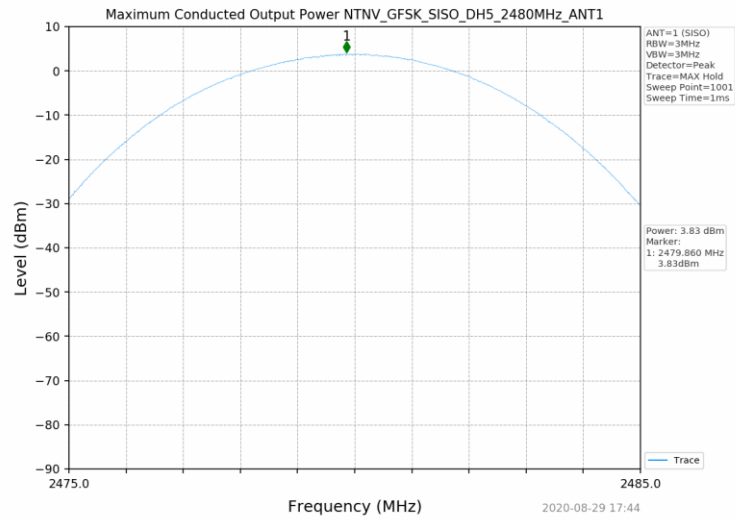
2. Maximum Conducted Output Power

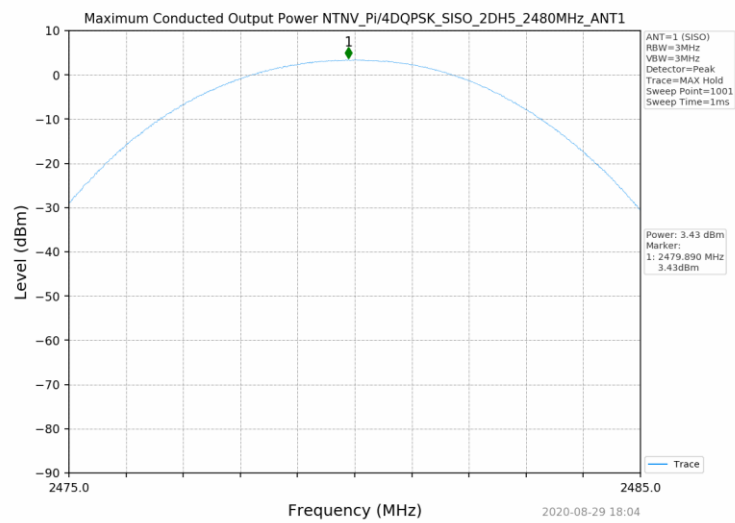
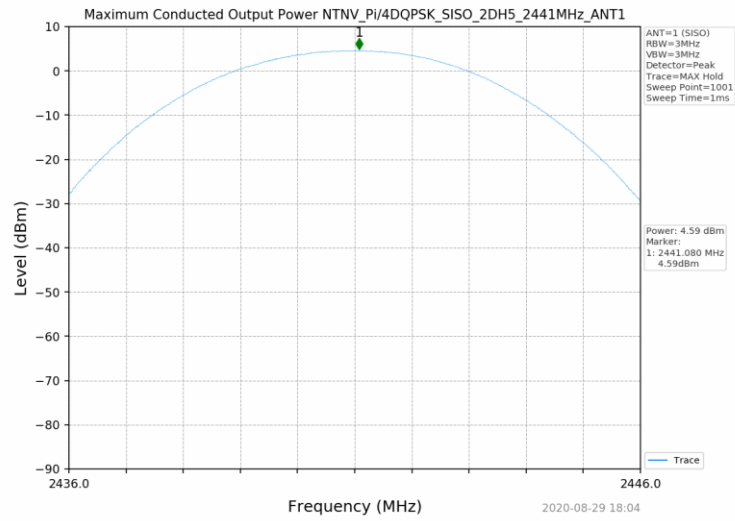
2.1 Test Result

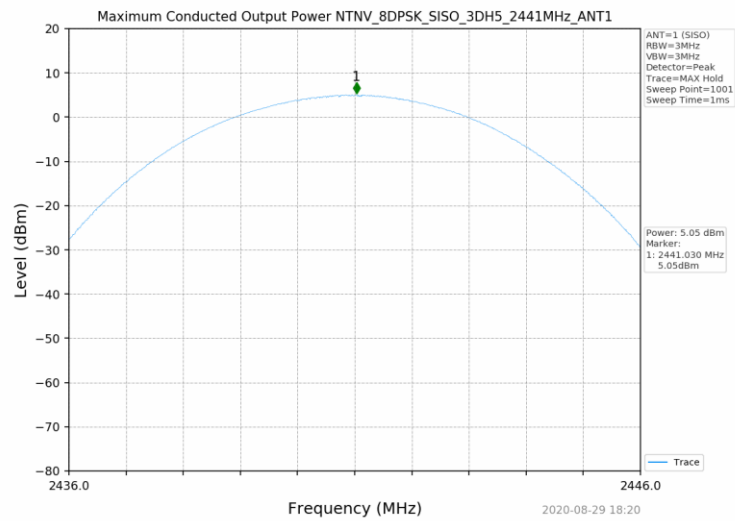
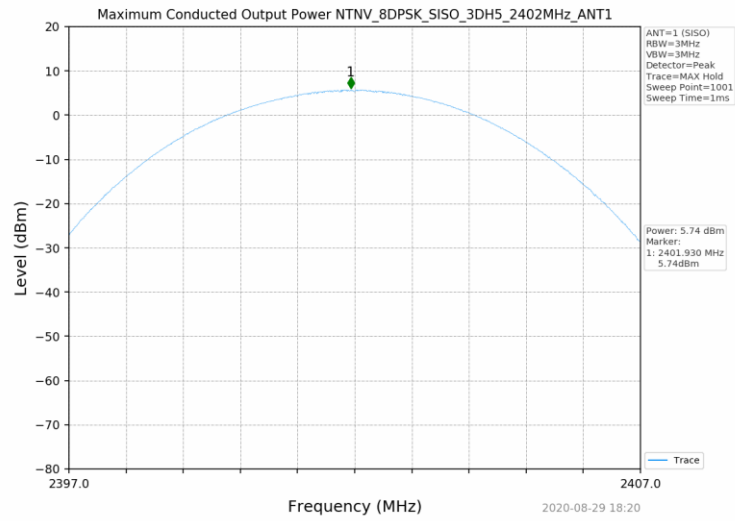
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	5.61	20.97	PASS
	2441	SISO	4.94	20.97	PASS
	2480	SISO	3.83	20.97	PASS
Pi/4DQPSK	2402	SISO	5.27	20.97	PASS
	2441	SISO	4.59	20.97	PASS
	2480	SISO	3.43	20.97	PASS
8DPSK	2402	SISO	5.74	20.97	PASS
	2441	SISO	5.05	20.97	PASS
	2480	SISO	3.84	20.97	PASS

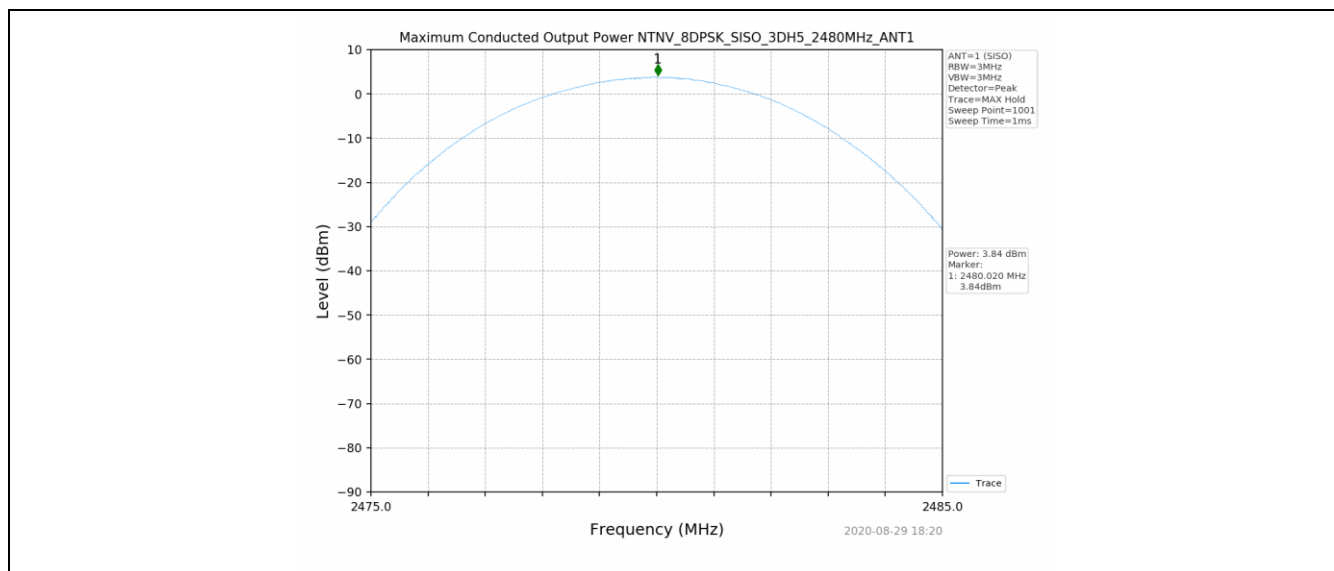
2.2 Test Graph









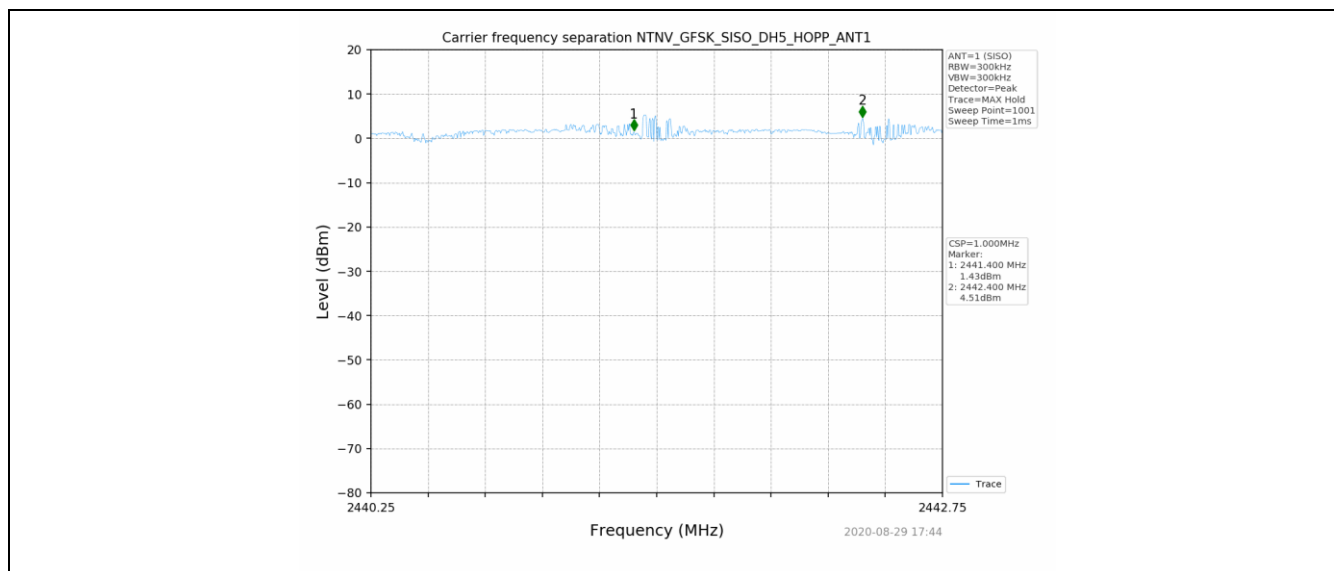


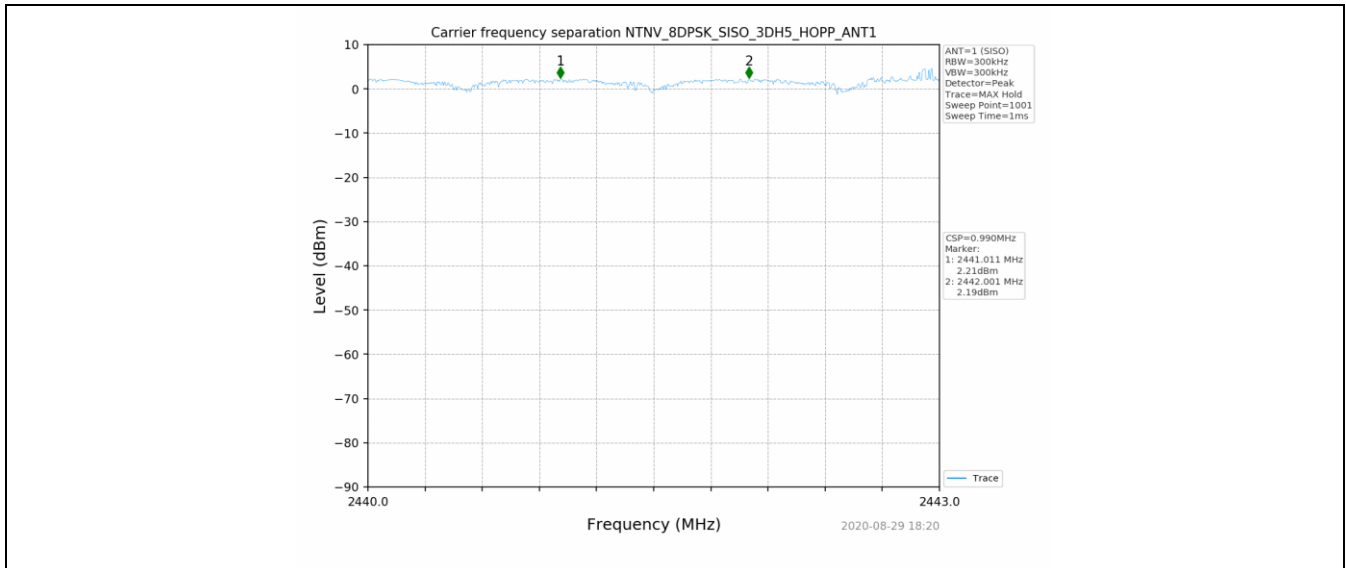
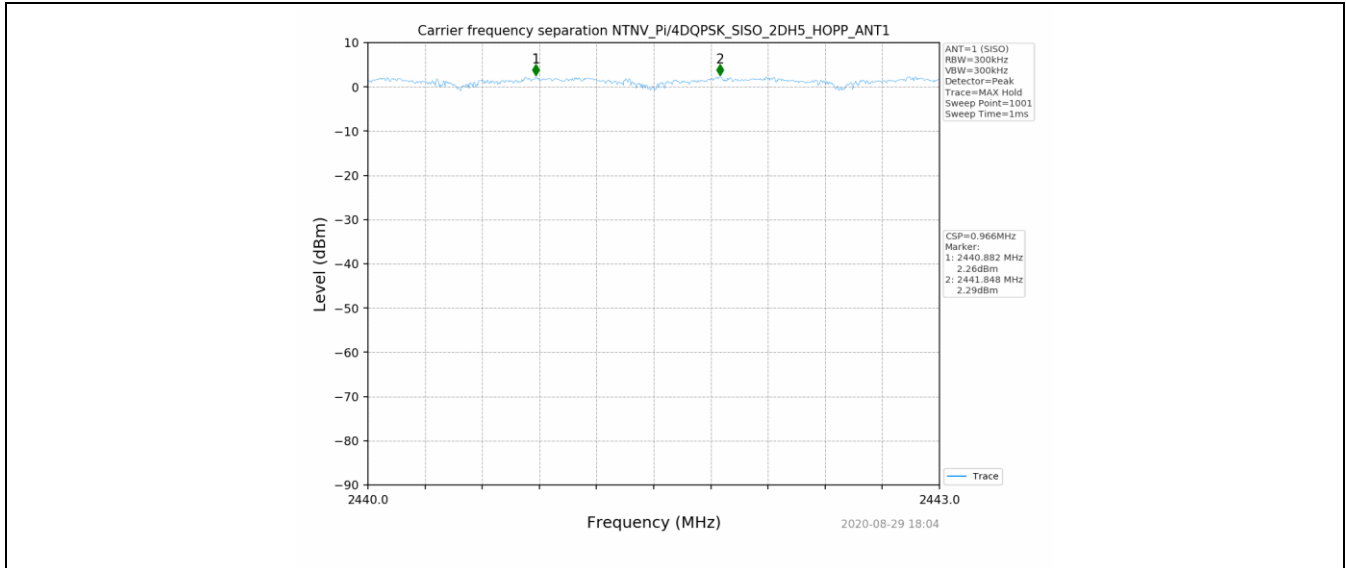
3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.000	1.316	≥ 0.877	PASS
Pi/4DQPSK	SISO	1	0.966	1.360	≥ 0.907	PASS
8DPSK	SISO	1	0.990	1.340	≥ 0.893	PASS

3.2 Test Graph



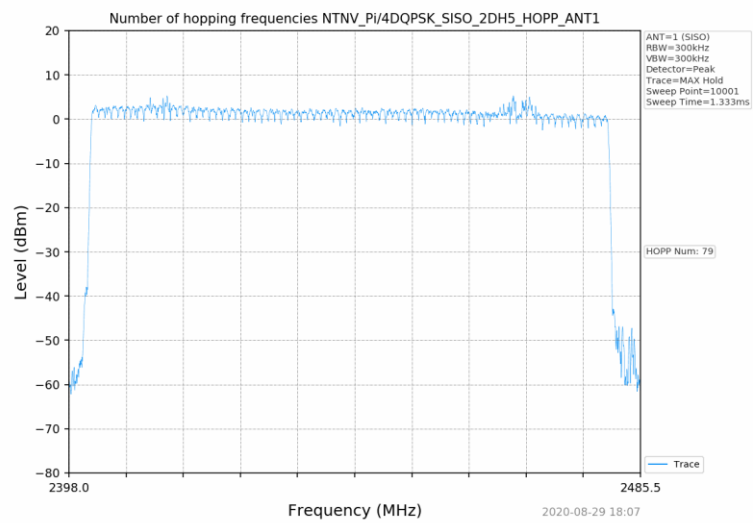
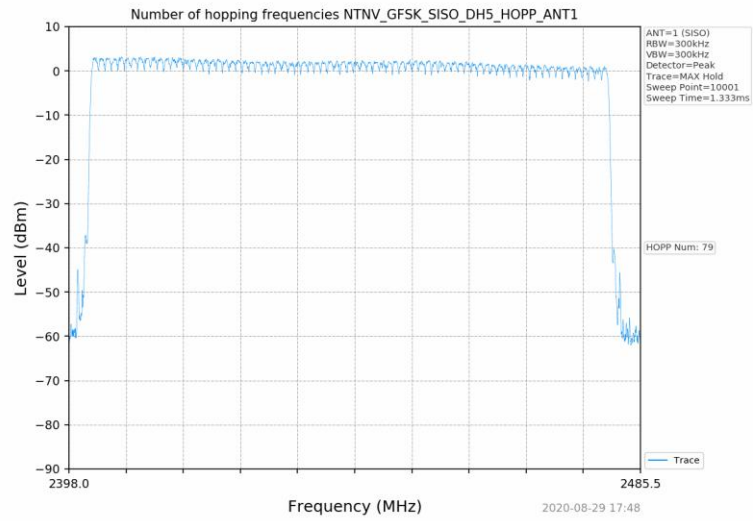


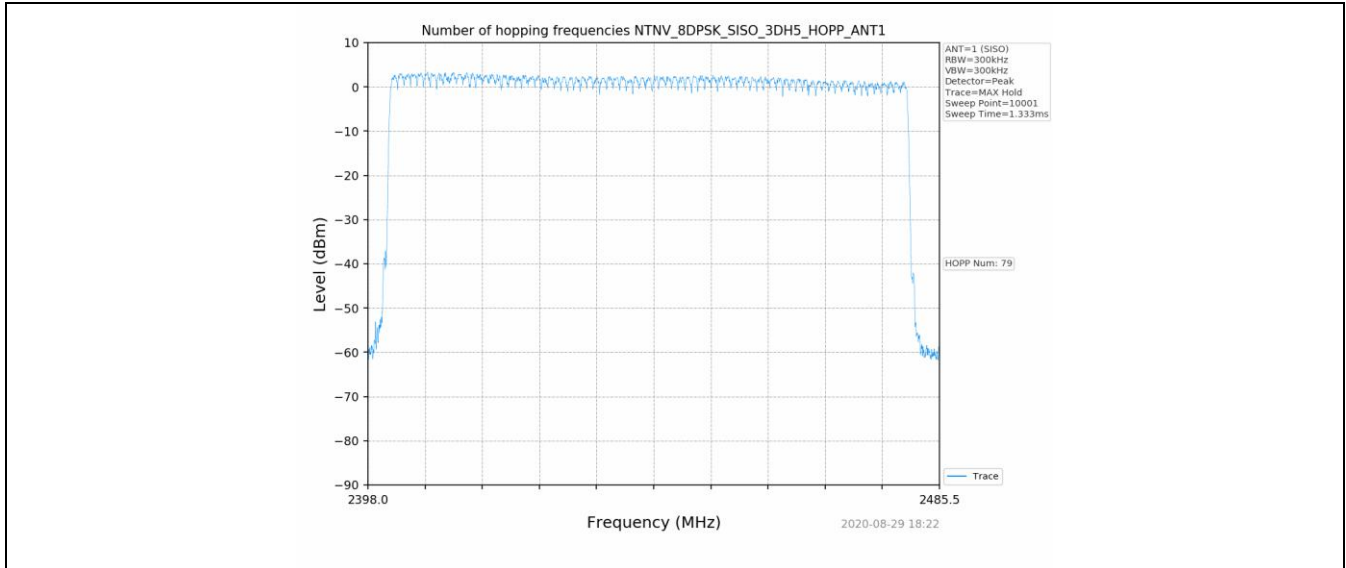
4. Number of hopping frequencies

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



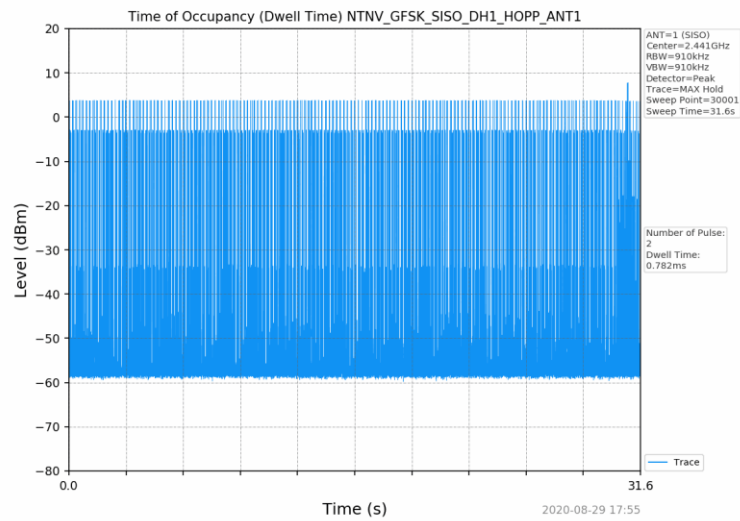
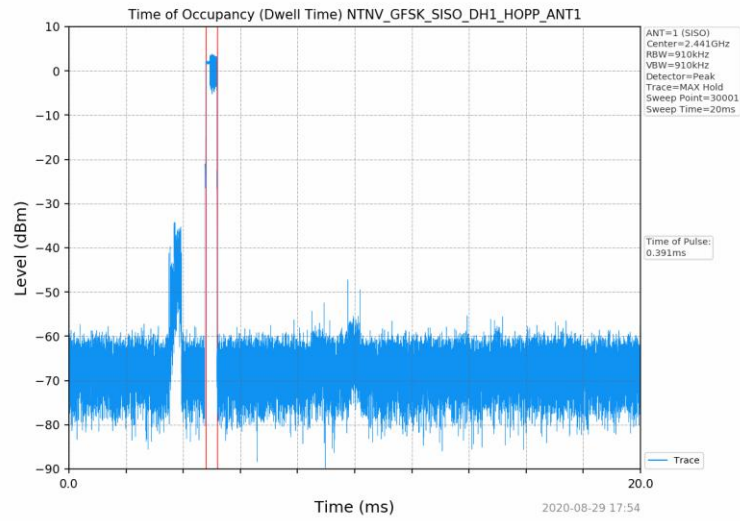


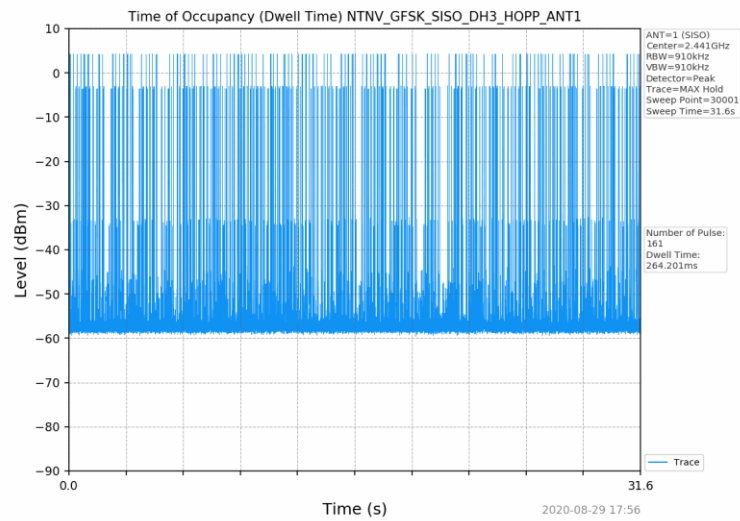
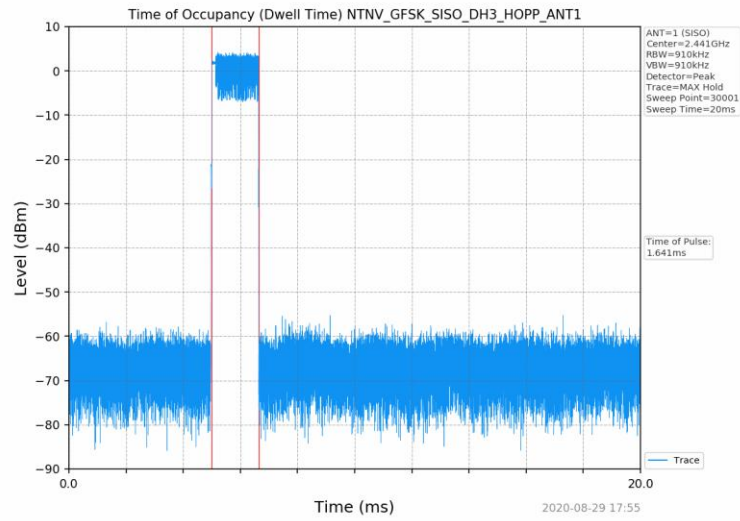
5. Time of Occupancy (Dwell Time)

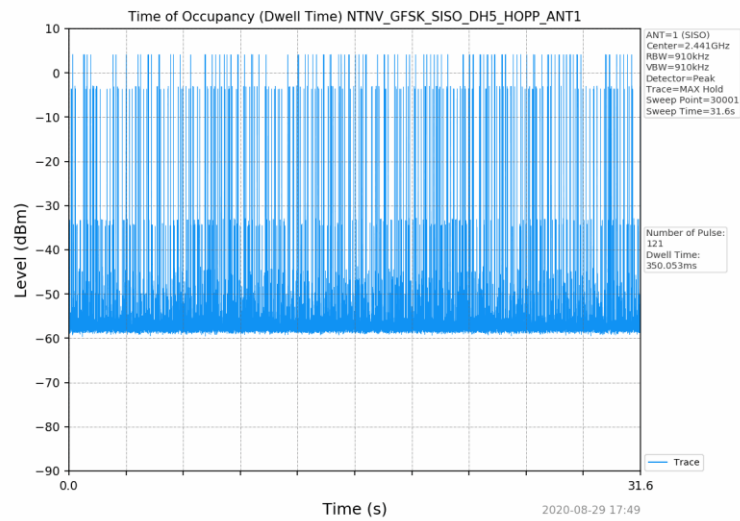
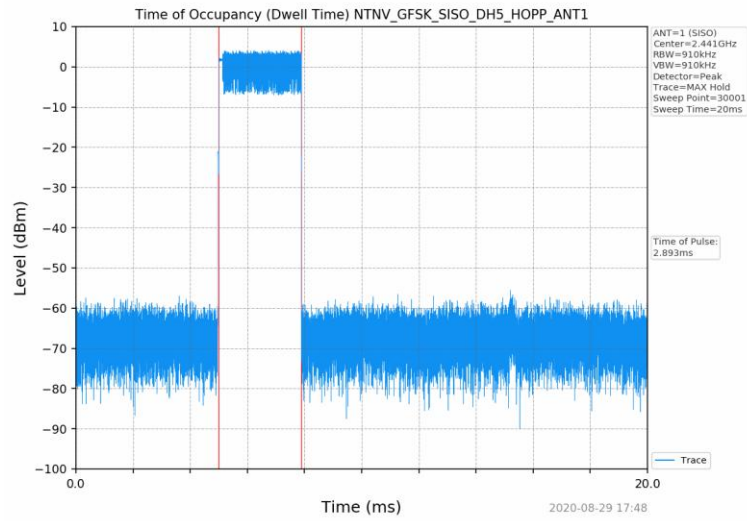
5.1 Test Result

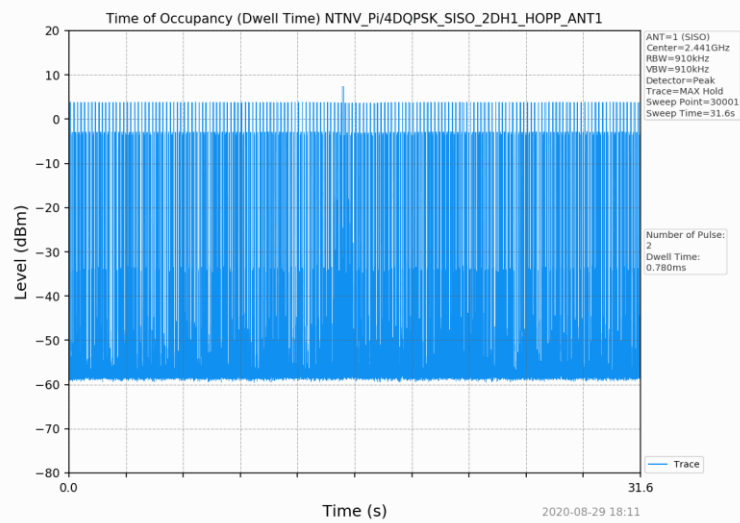
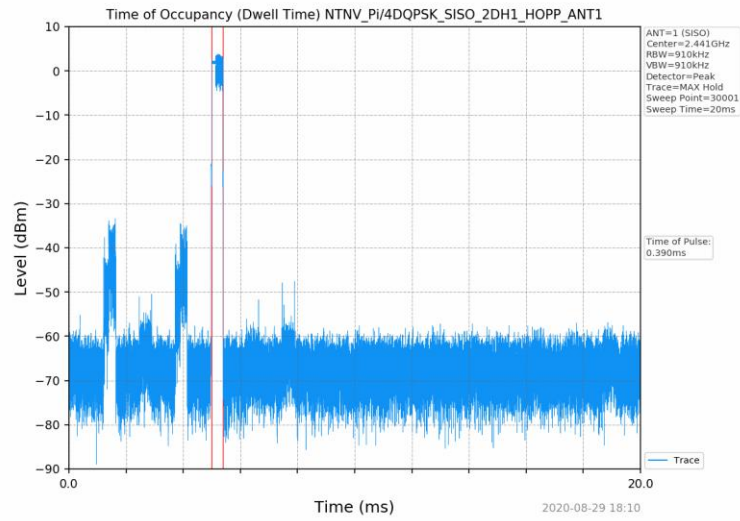
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Obeservation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.391	31.6	2	0.782	≤400	PASS
	DH3	SISO	1	1.641	31.6	161	264.201	≤400	PASS
	DH5	SISO	1	2.893	31.6	121	350.053	≤400	PASS
Pi/4D QPS K	2DH1	SISO	1	0.390	31.6	2	0.780	≤400	PASS
	2DH3	SISO	1	1.642	31.6	159	261.078	≤400	PASS
	2DH5	SISO	1	2.890	31.6	2	5.780	≤400	PASS
8DPS K	3DH1	SISO	1	0.390	31.6	320	124.800	≤400	PASS
	3DH3	SISO	1	1.641	31.6	2	3.282	≤400	PASS
	3DH5	SISO	1	2.892	31.6	105	303.660	≤400	PASS

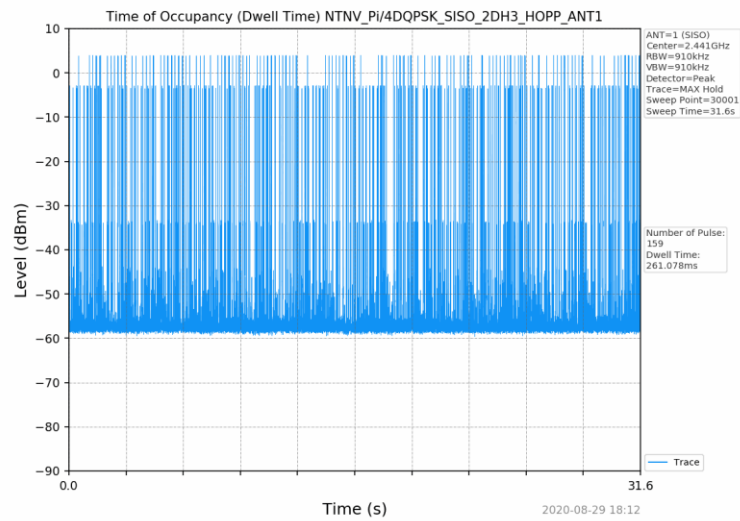
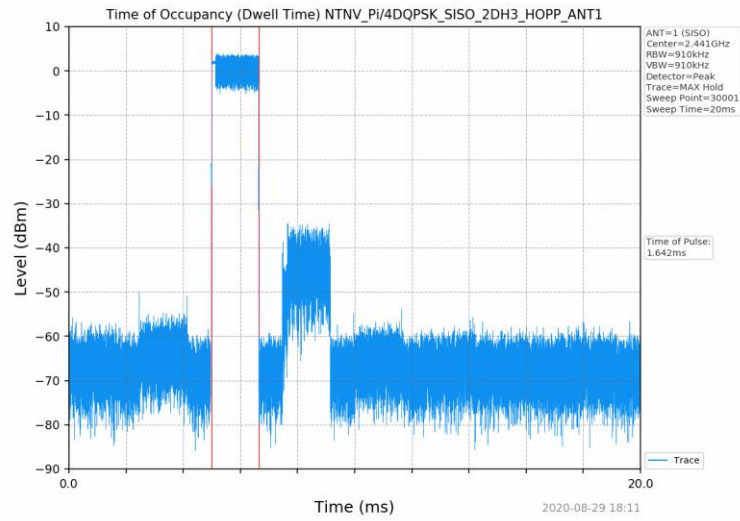
5.2 Test Graph

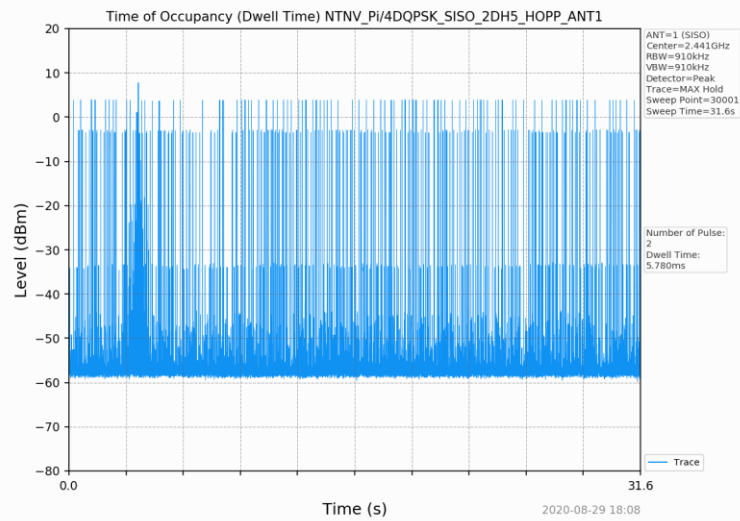
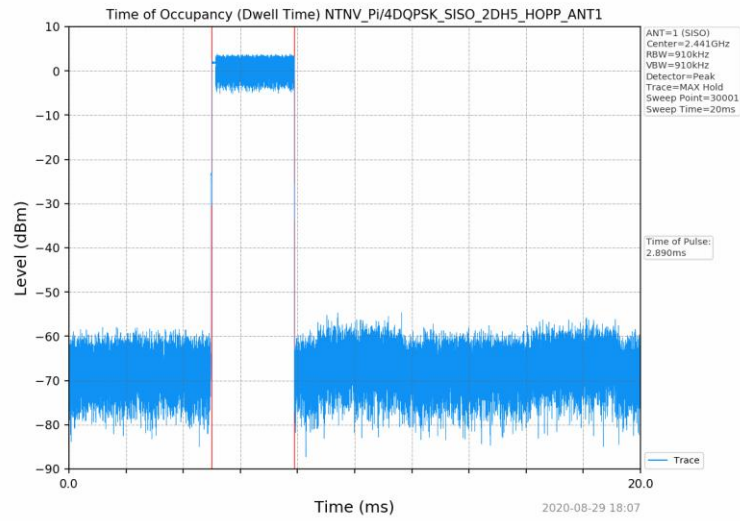


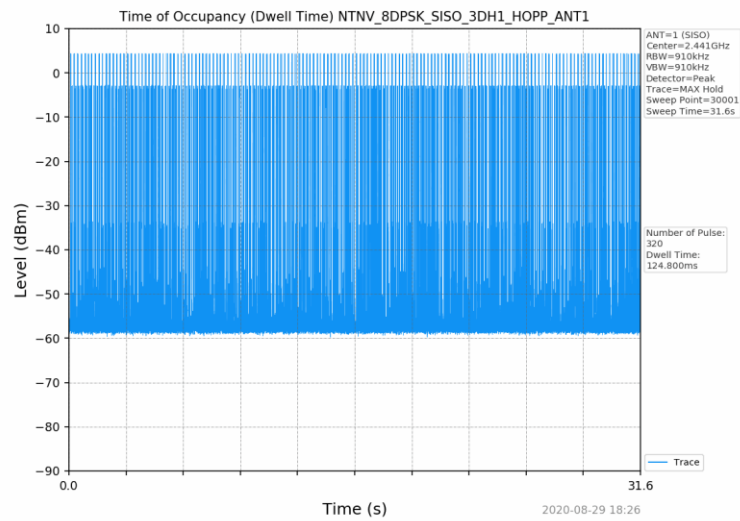
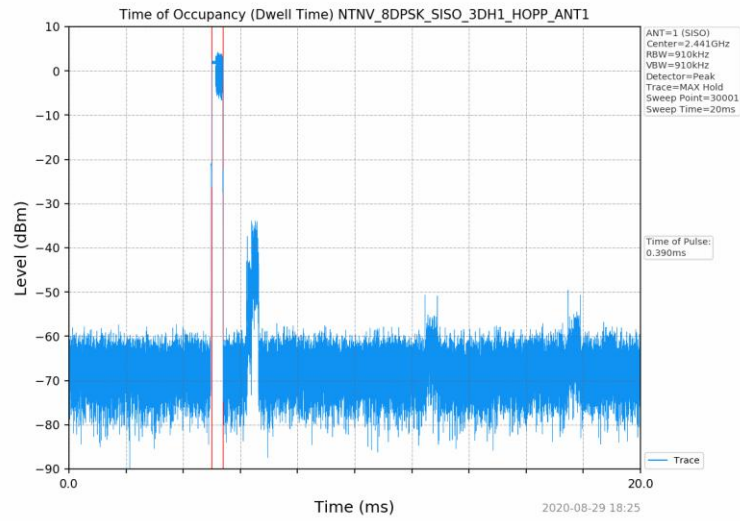


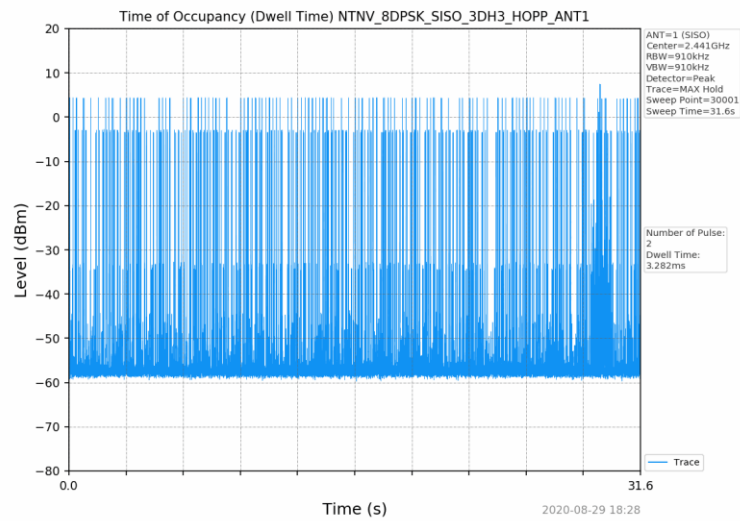
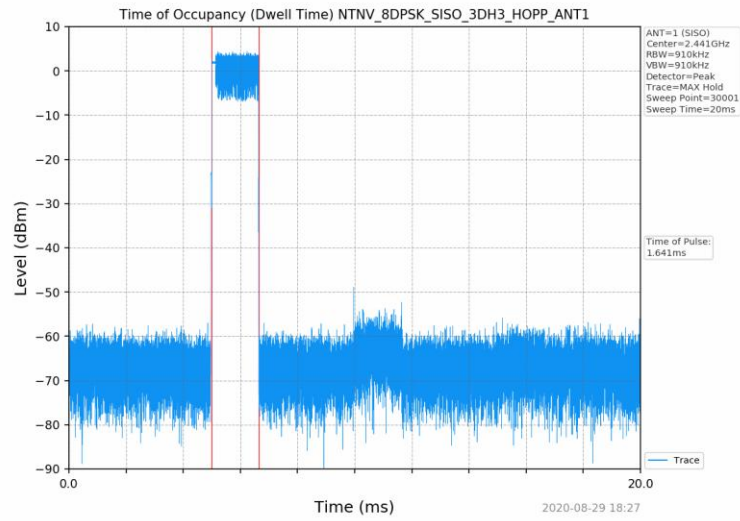


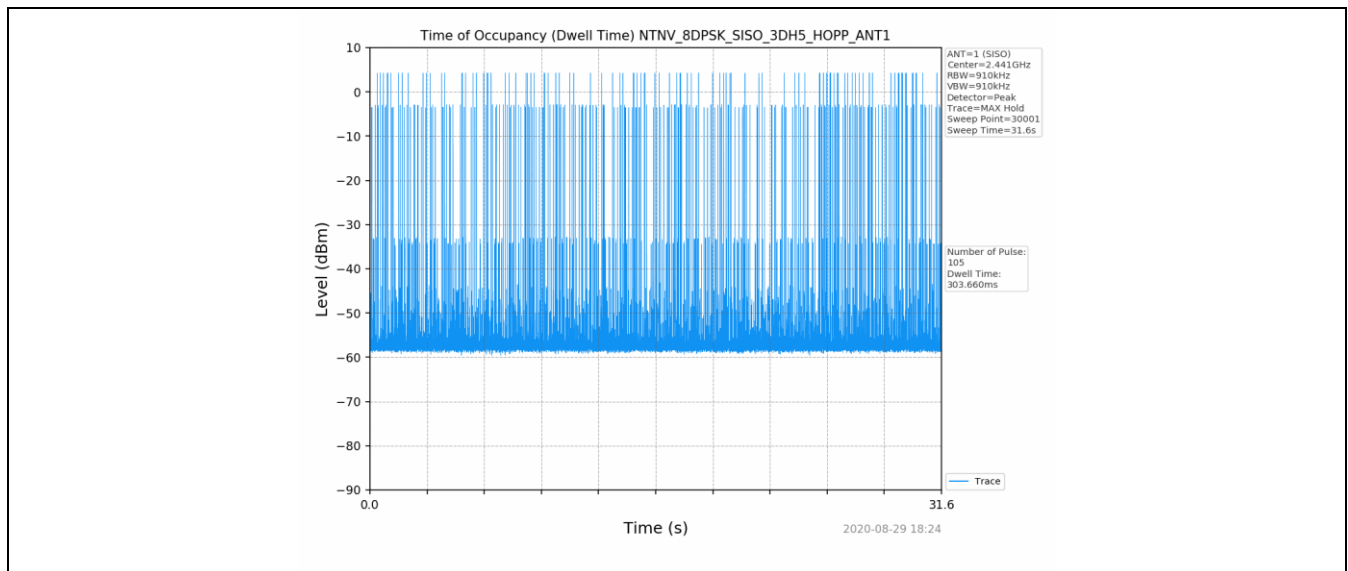
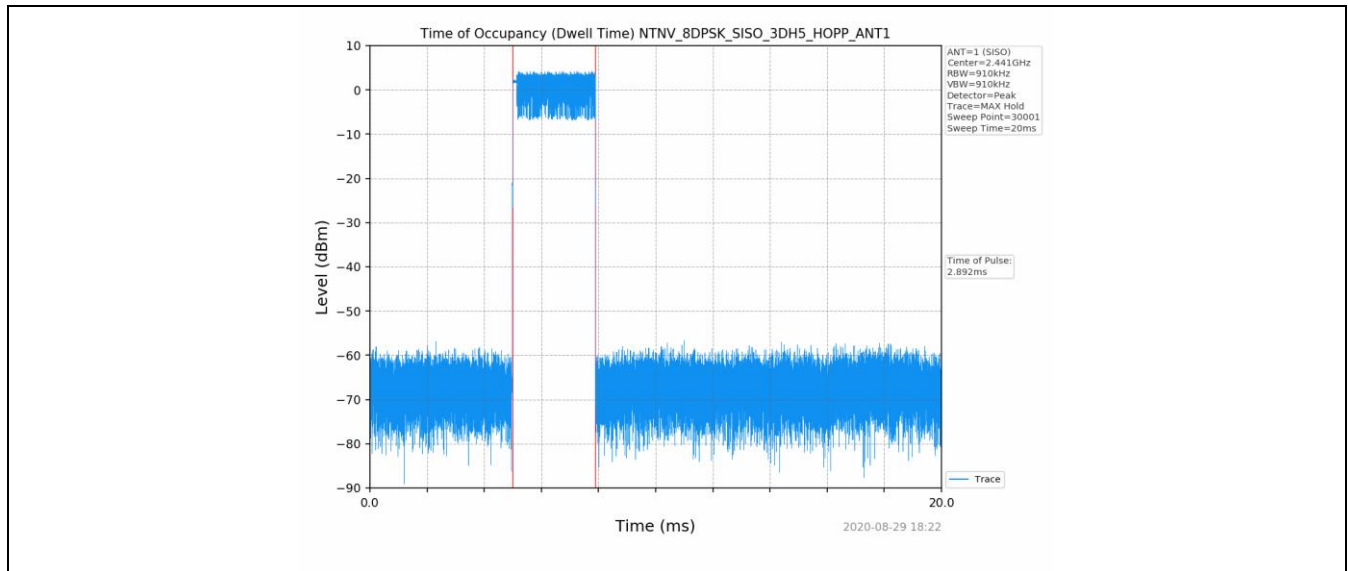












6. Unwanted Emissions in Non-restricted Frequency Bands

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	-17.33	PASS
	2441	SISO	1	Refer to test graph	-17.33	PASS
	2480	SISO	1	Refer to test graph	-17.33	PASS
	Hopping	SISO	1	Refer to test graph	-17.33	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-17.48	PASS
	2441	SISO	1	Refer to test graph	-17.48	PASS
	2480	SISO	1	Refer to test graph	-17.48	PASS
	Hopping	SISO	1	Refer to test graph	-17.48	PASS
8DPSK	2402	SISO	1	Refer to test graph	-17.26	PASS

	2441	SISO	1	Refer to test graph	-17.26	PASS
	2480	SISO	1	Refer to test graph	-17.26	PASS
	Hopping	SISO	1	Refer to test graph	-17.26	PASS

6.2 Test Graph

