

## Annex for Bluetooth BR/EDR

**Test Report No. : CTL2009081011-WF**

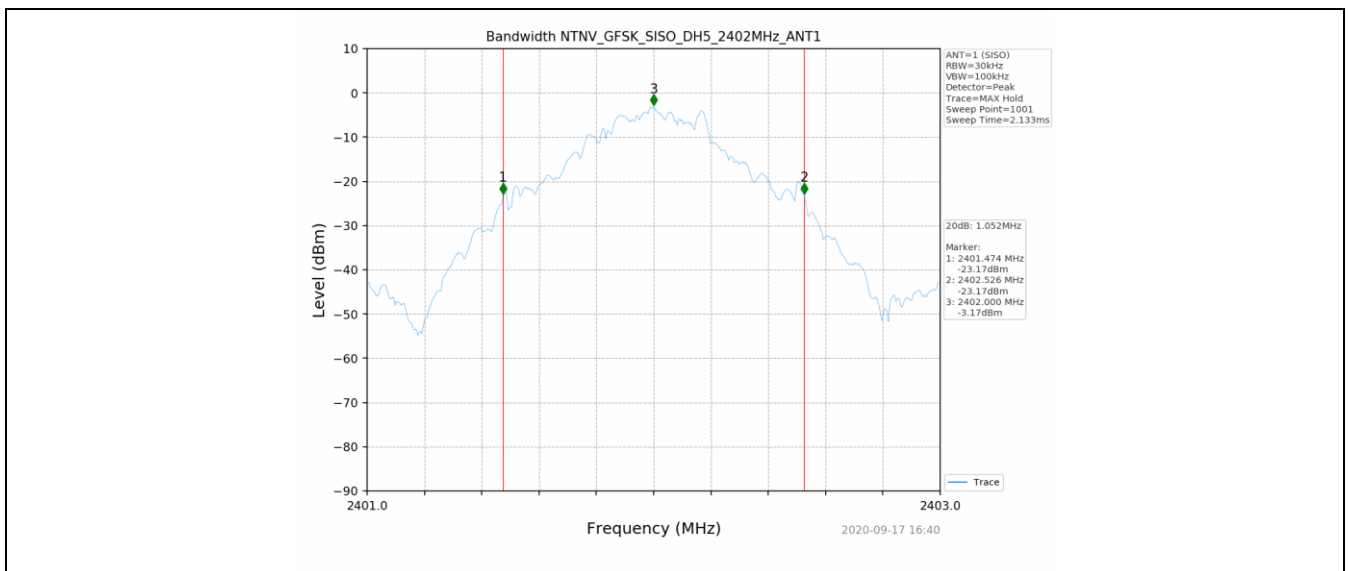
### 1. Bandwidth

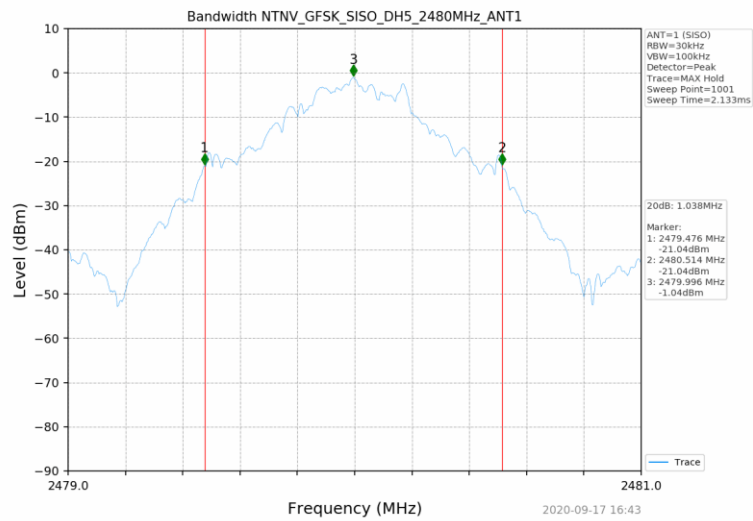
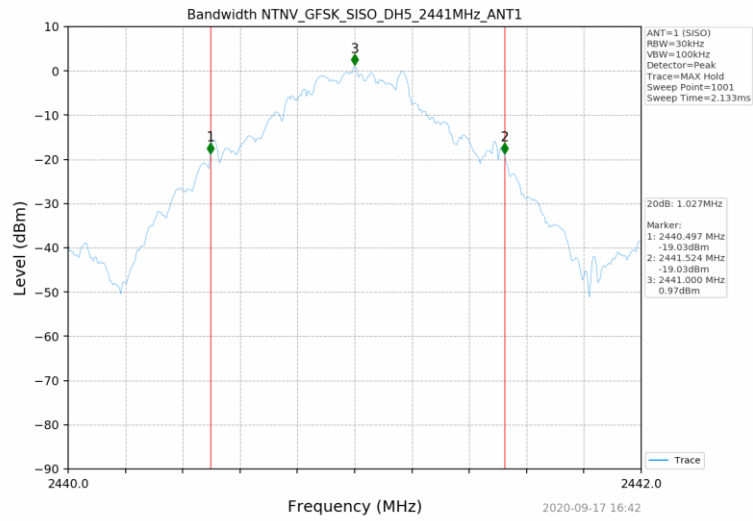
#### 1.1 Test Result

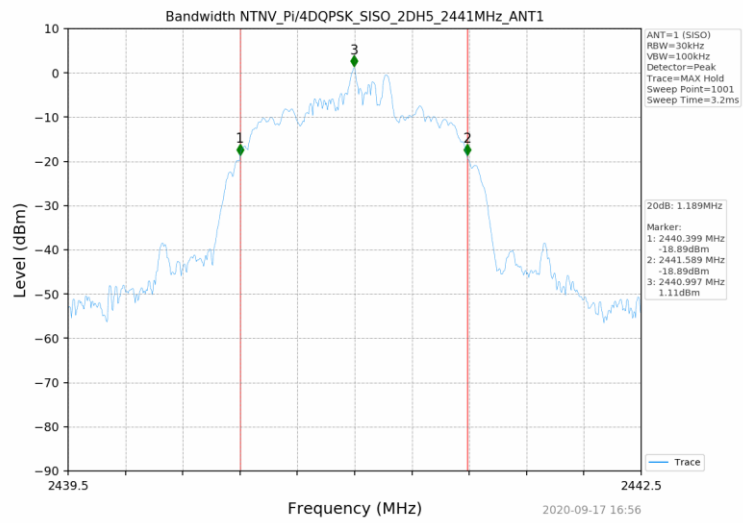
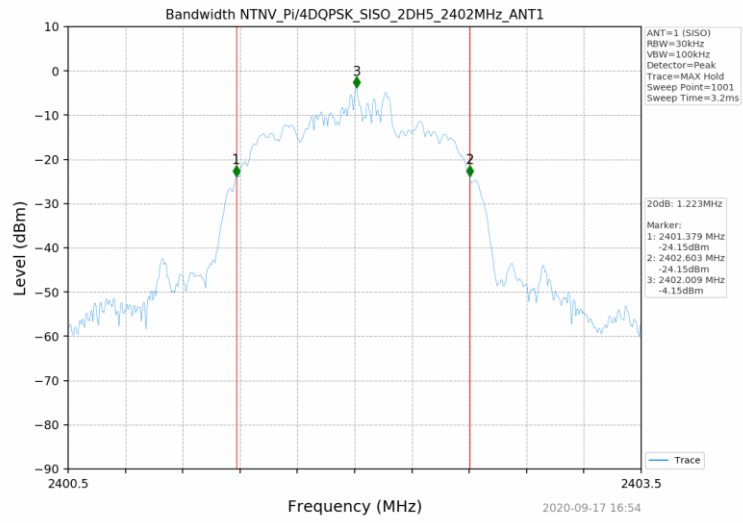
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	1.052	PASS
	2441	SISO	1	1.027	PASS
	2480	SISO	1	1.038	PASS
Pi/4DQPSK	2402	SISO	1	1.223	PASS
	2441	SISO	1	1.189	PASS
	2480	SISO	1	1.216	PASS
8DPSK	2402	SISO	1	1.199	PASS
	2441	SISO	1	1.198	PASS
	2480	SISO	1	1.233	PASS

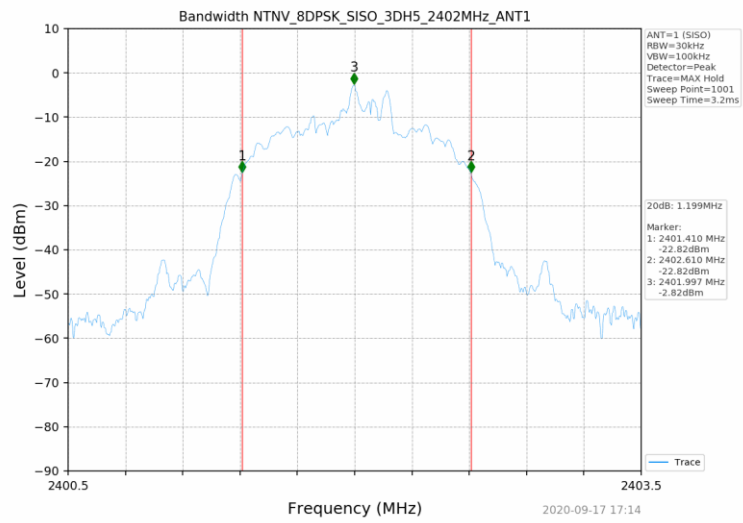
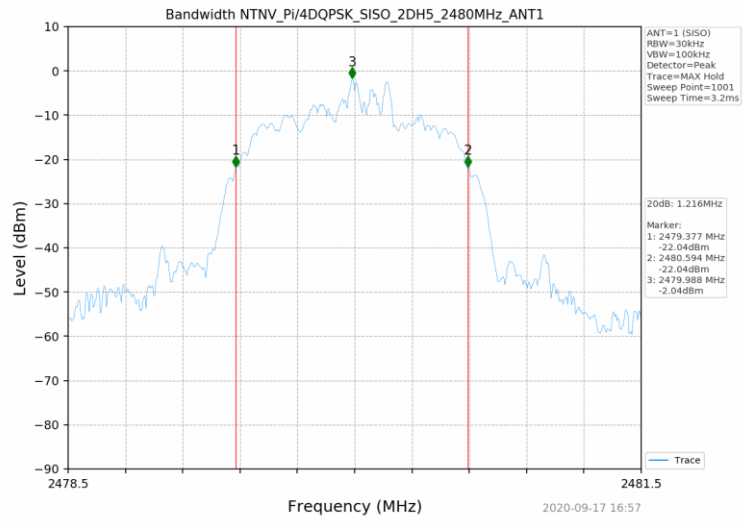
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.916	Only for Report Use
	2441	SISO	1	0.911	Only for Report Use
	2480	SISO	1	0.944	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.130	Only for Report Use
	2441	SISO	1	1.131	Only for Report Use
	2480	SISO	1	1.137	Only for Report Use
8DPSK	2402	SISO	1	1.147	Only for Report Use
	2441	SISO	1	1.148	Only for Report Use
	2480	SISO	1	1.143	Only for Report Use

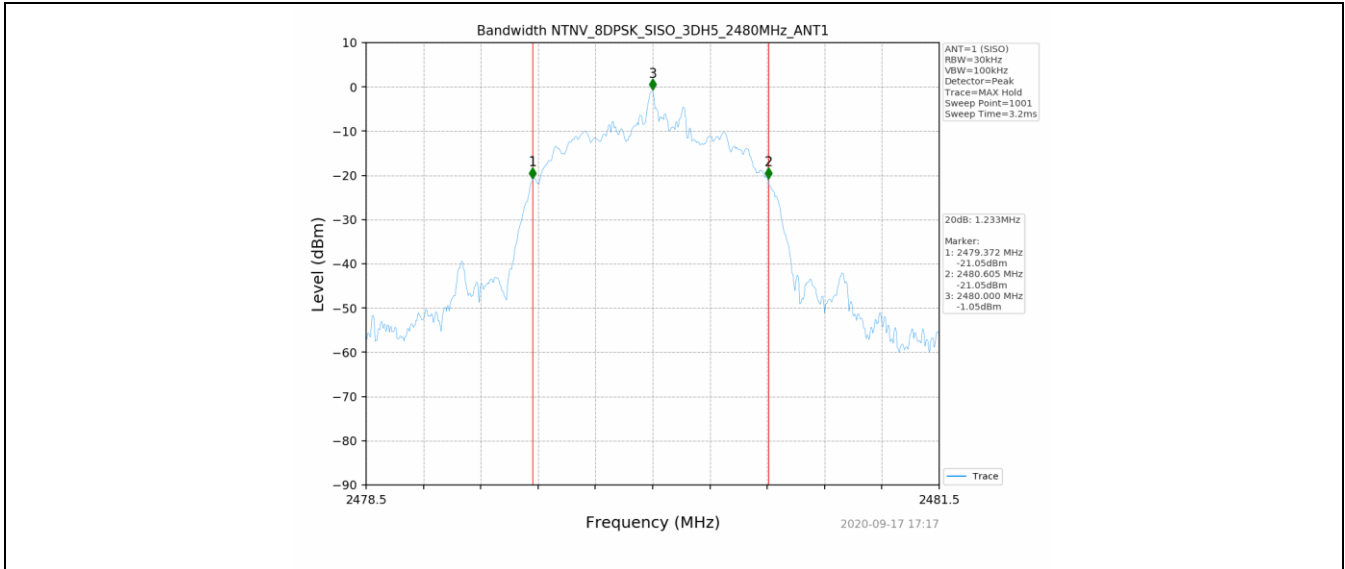
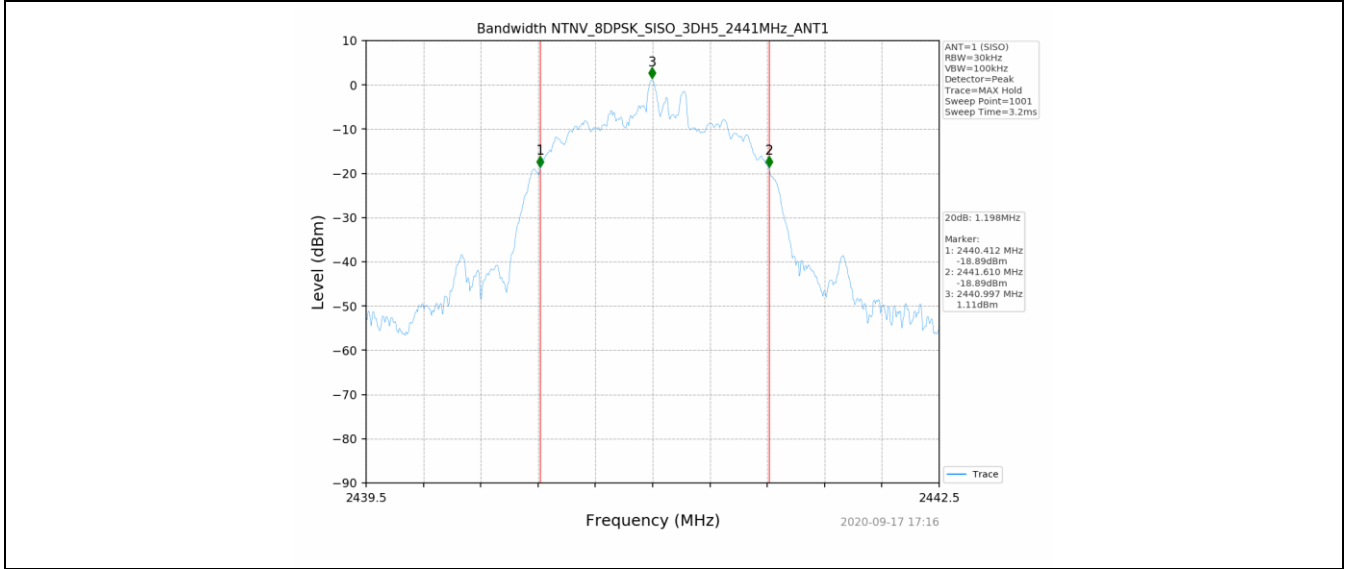
#### 1.2 Test Graph - 20dB Bandwidth



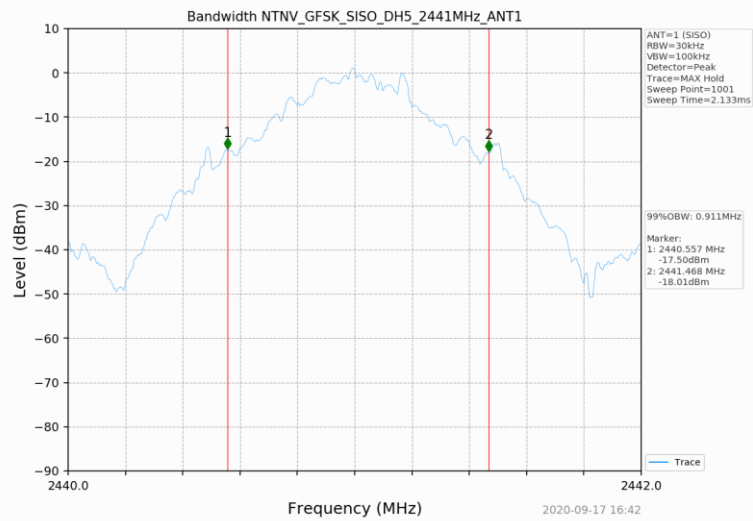
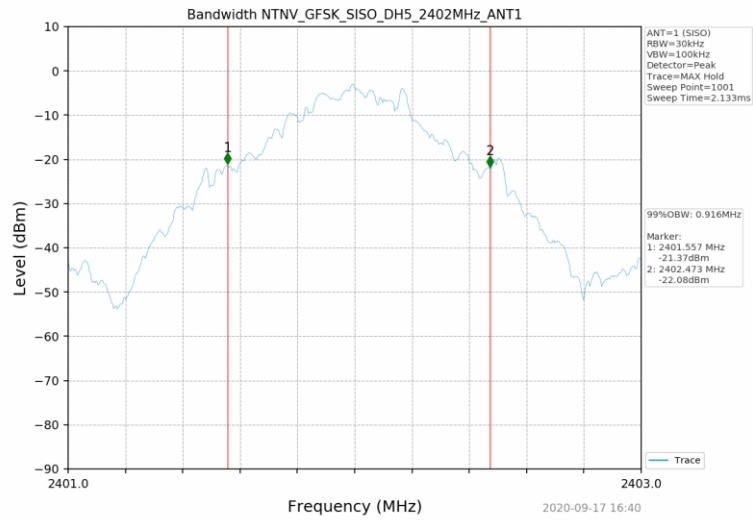


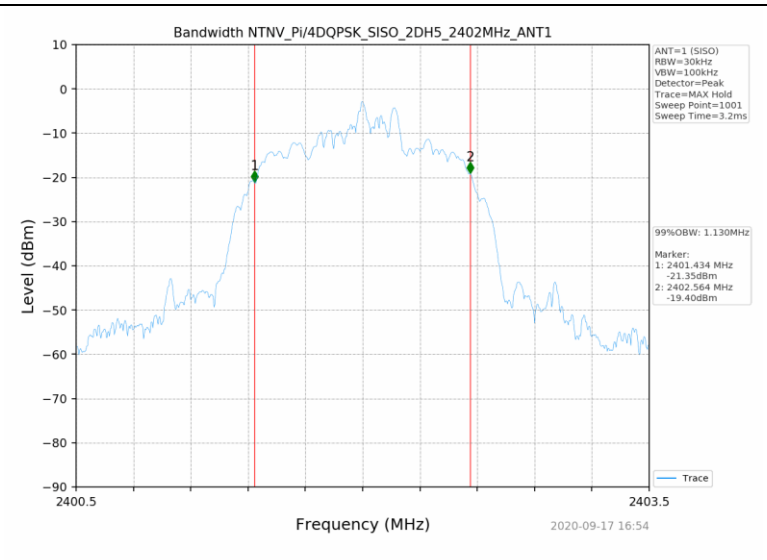
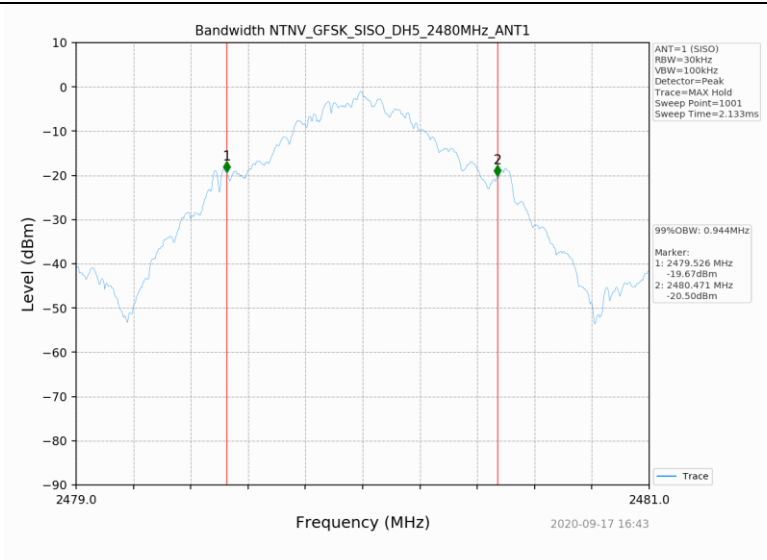


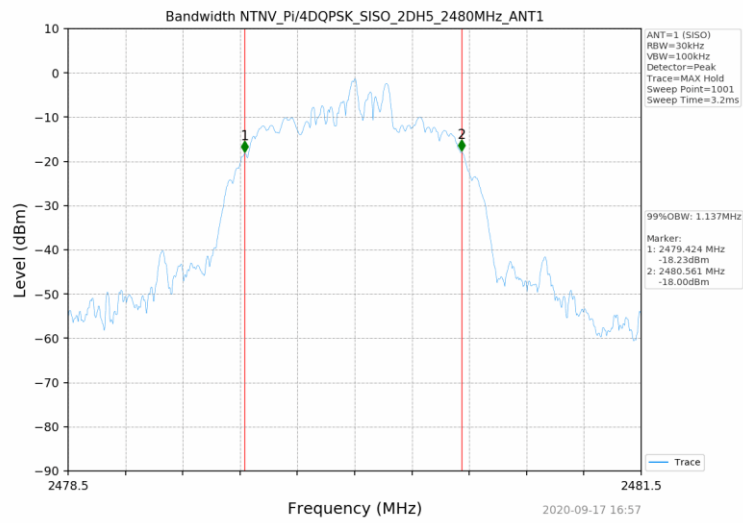
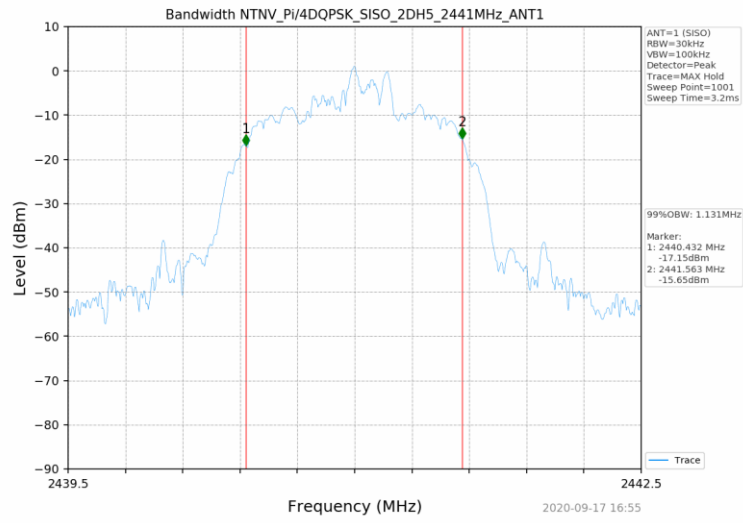




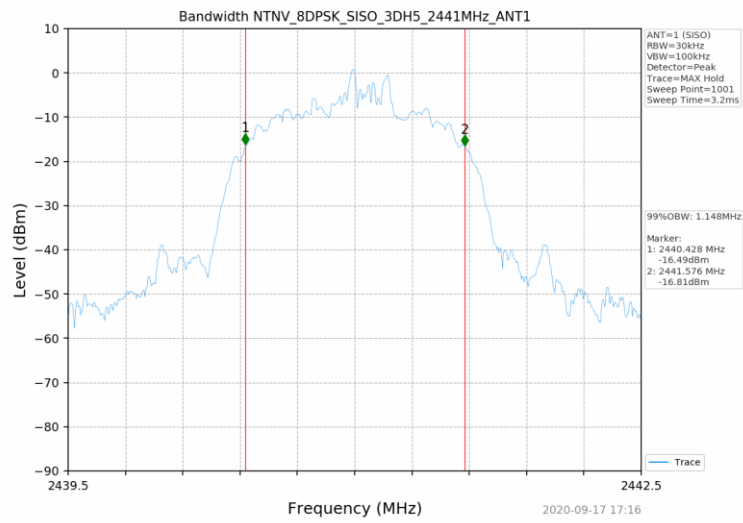
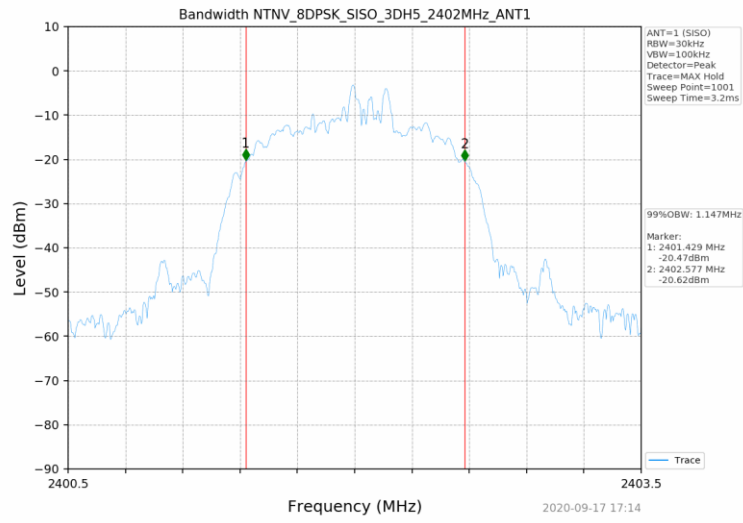
**1.3 Test Graph - 99% Occupied Bandwidth**

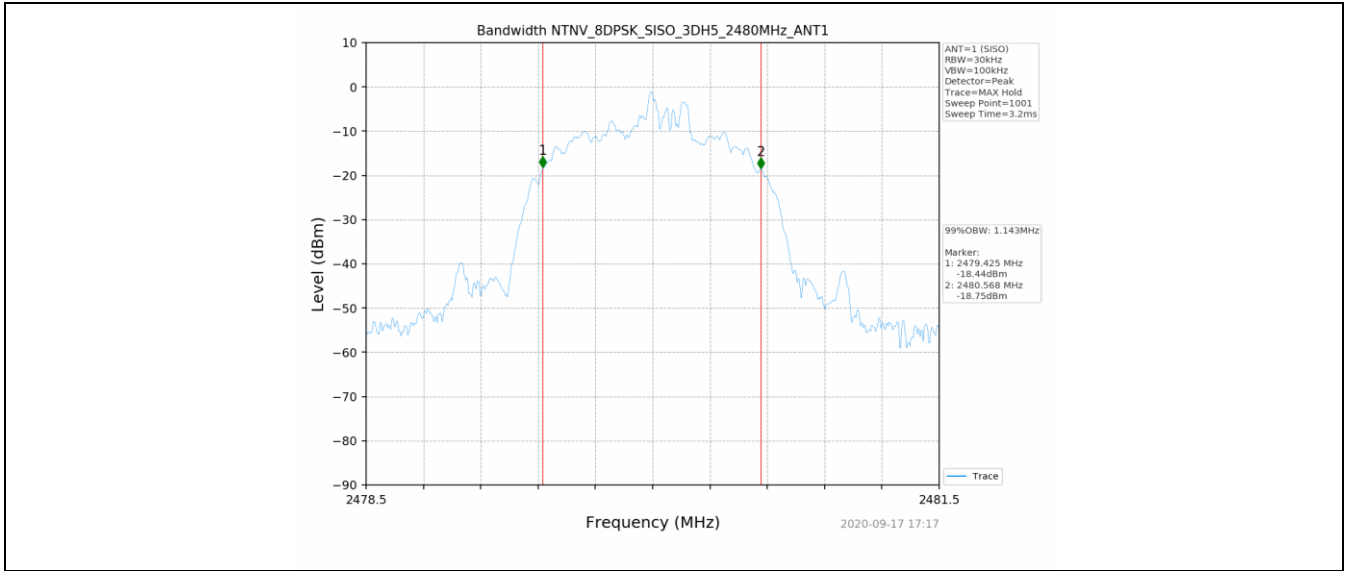










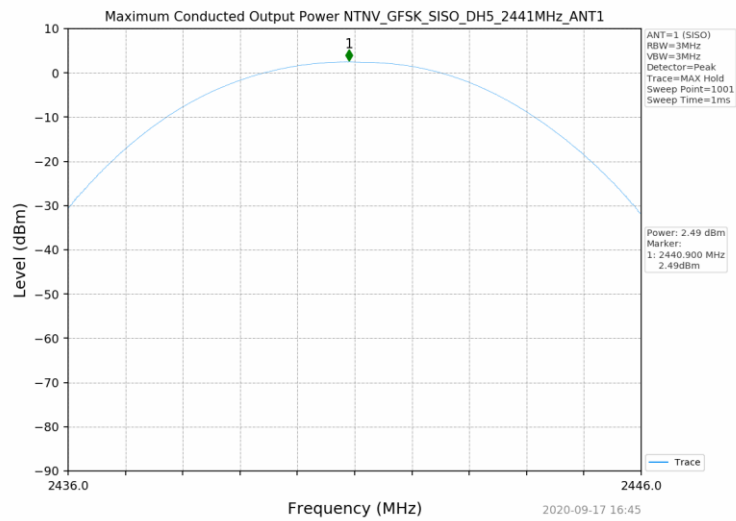
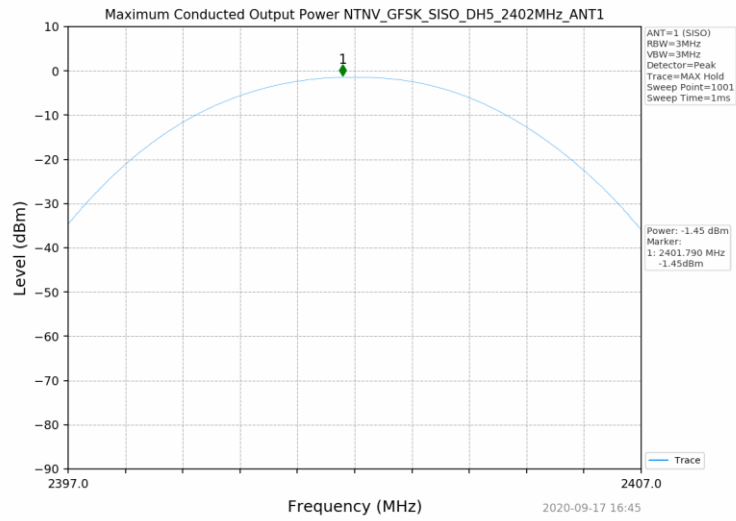


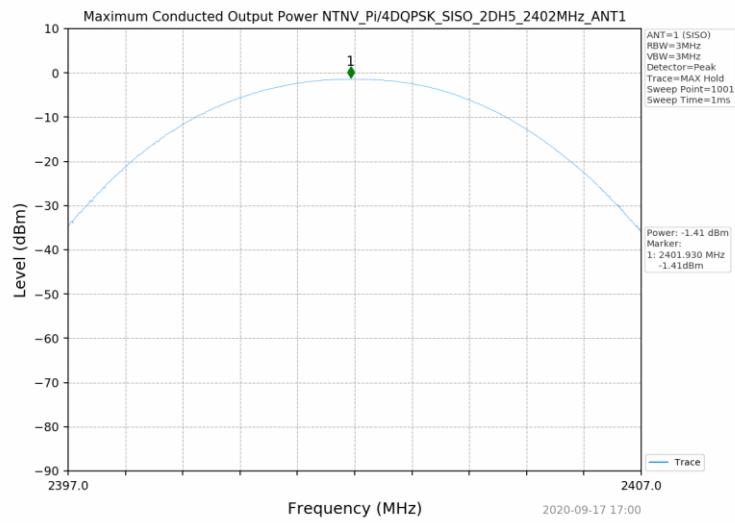
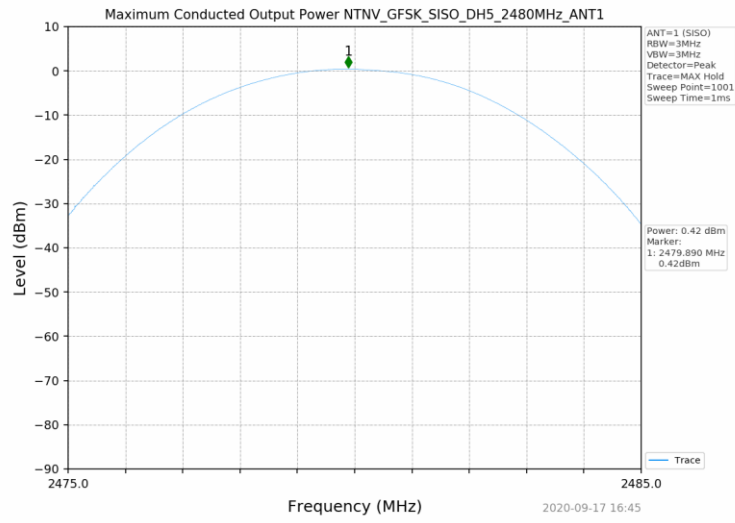
## 2. Maximum Conducted Output Power

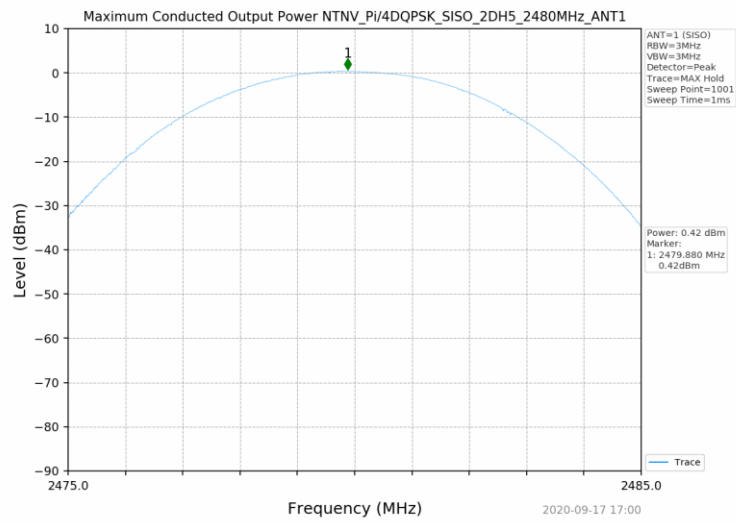
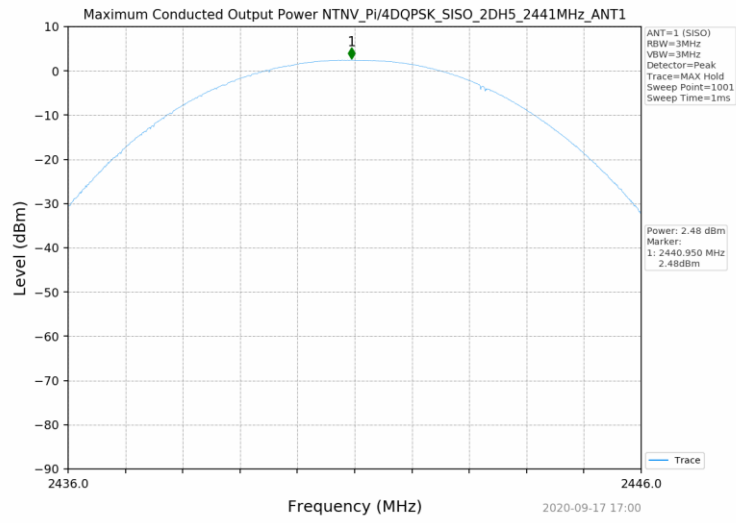
### 2.1 Test Result

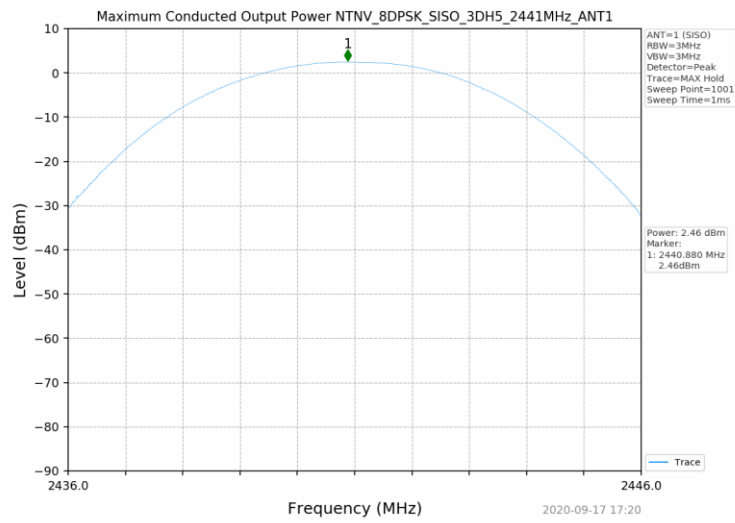
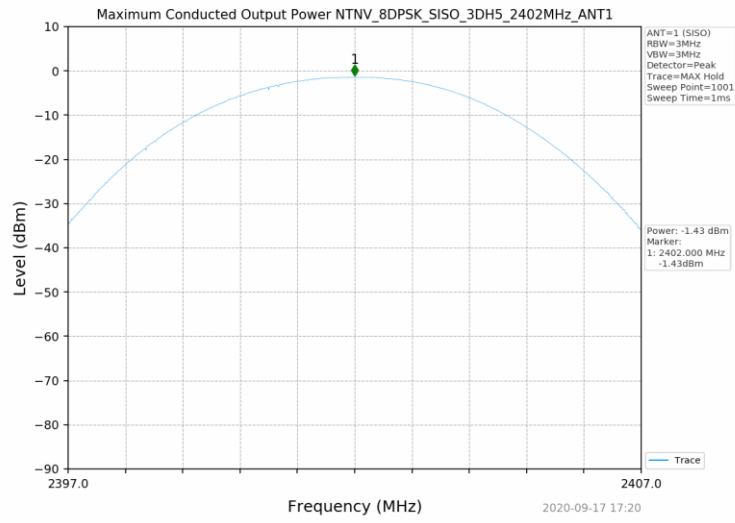
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	-1.45	20.97	PASS
	2441	SISO	2.49	20.97	PASS
	2480	SISO	0.42	20.97	PASS
Pi/4DQPSK	2402	SISO	-1.41	20.97	PASS
	2441	SISO	2.48	20.97	PASS
	2480	SISO	0.42	20.97	PASS
8DPSK	2402	SISO	-1.43	20.97	PASS
	2441	SISO	2.46	20.97	PASS
	2480	SISO	0.45	20.97	PASS

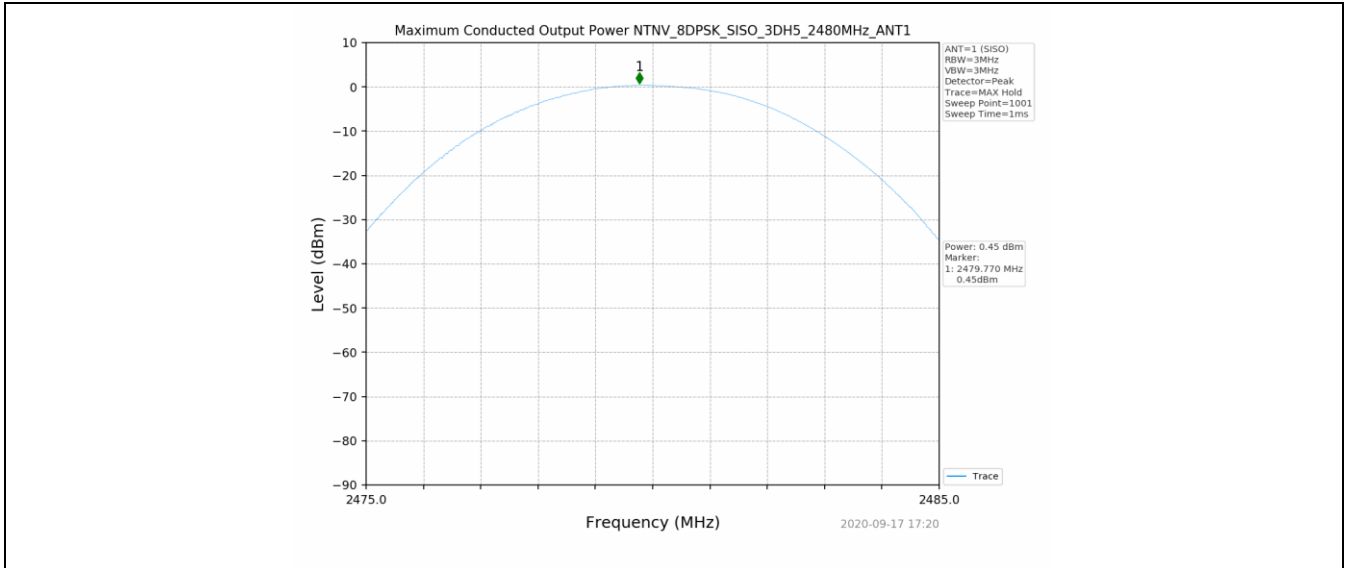
### 2.2 Test Graph









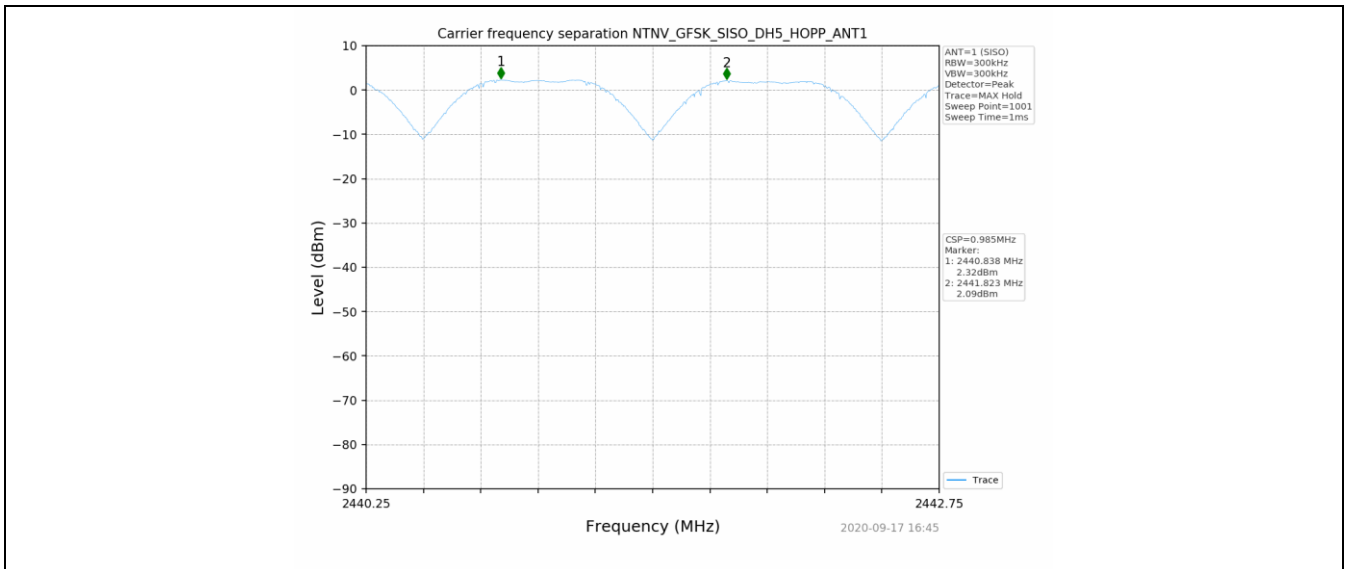


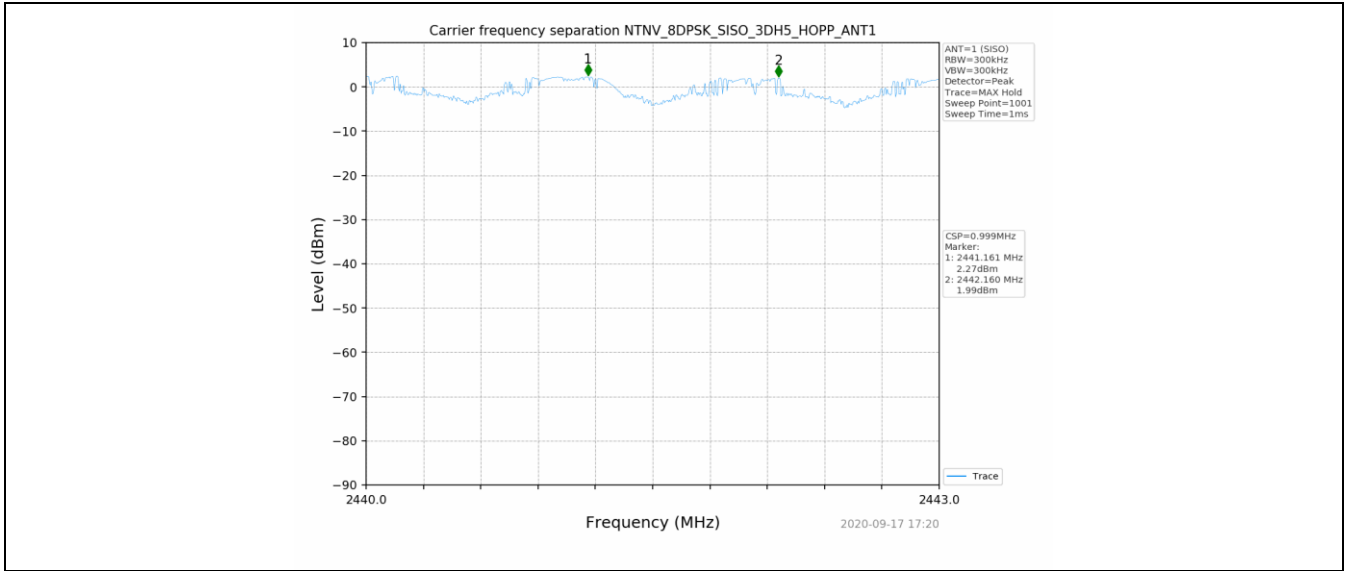
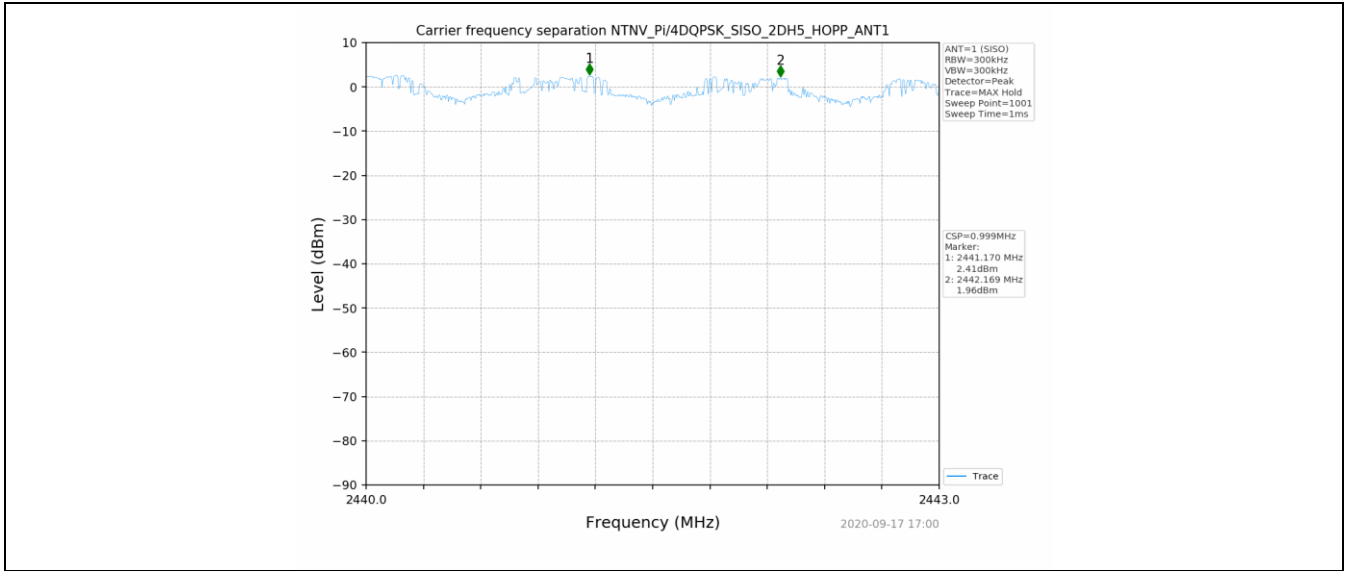
### 3. Carrier frequency separation

#### 3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	0.985	1.052	$\geq 0.701$	PASS
Pi/4DQPSK	SISO	1	0.999	1.223	$\geq 0.815$	PASS
8DPSK	SISO	1	0.999	1.233	$\geq 0.822$	PASS

#### 3.2 Test Graph





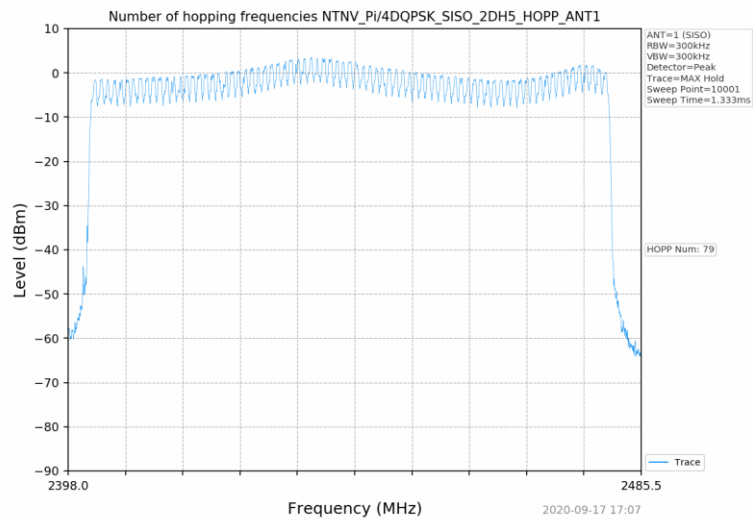
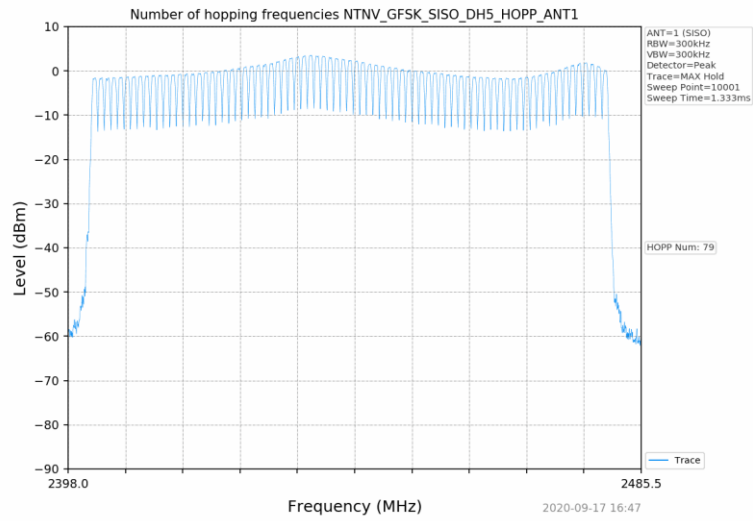
### 4. Number of hopping frequencies

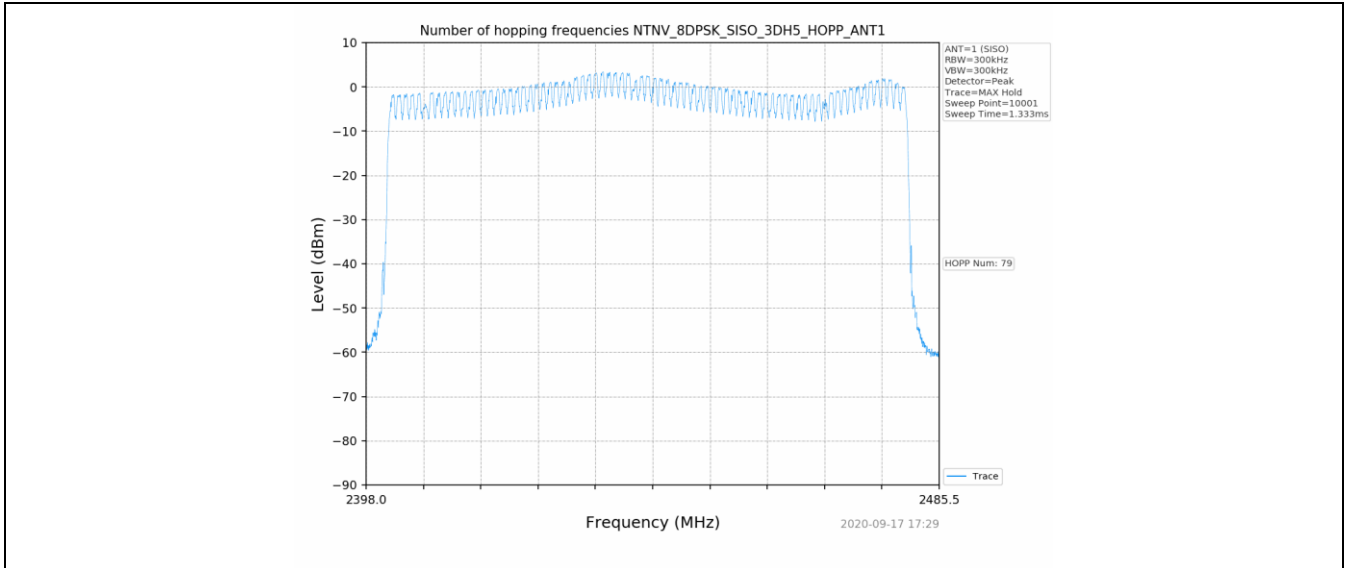
#### 4.1 Test Result

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





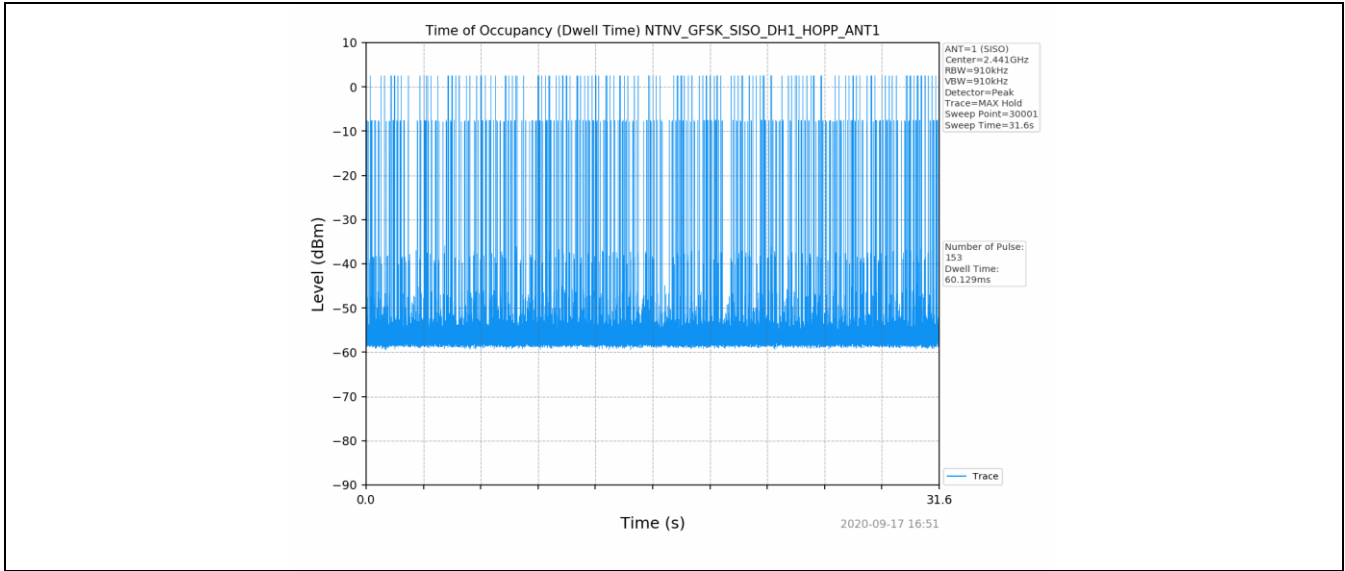
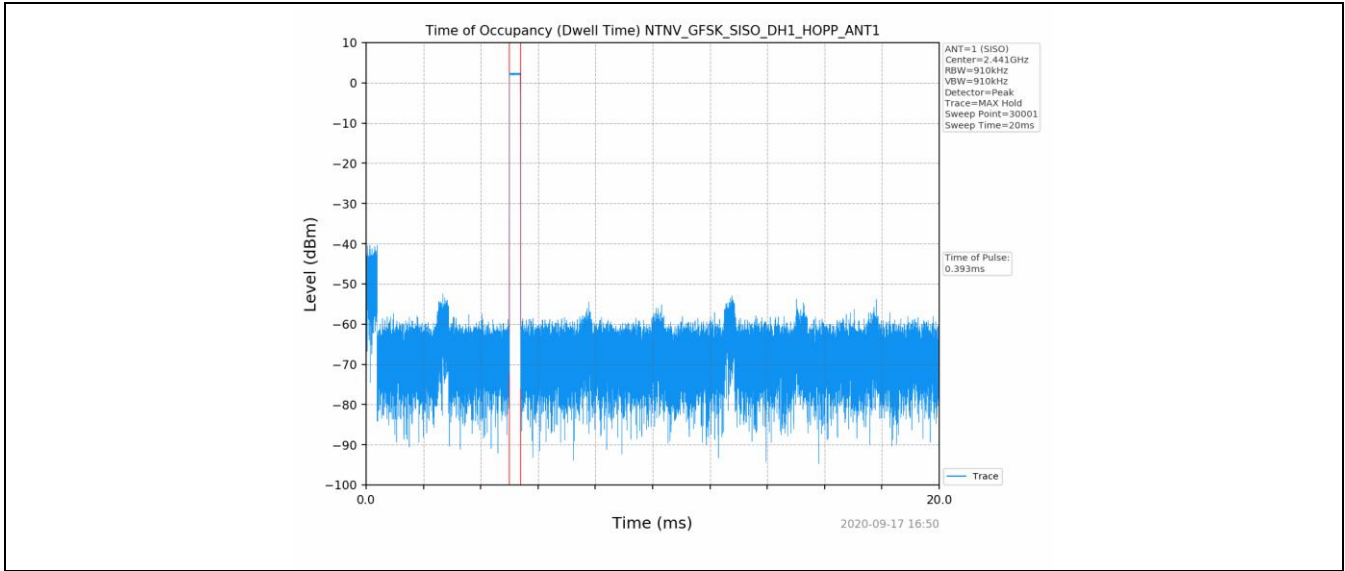


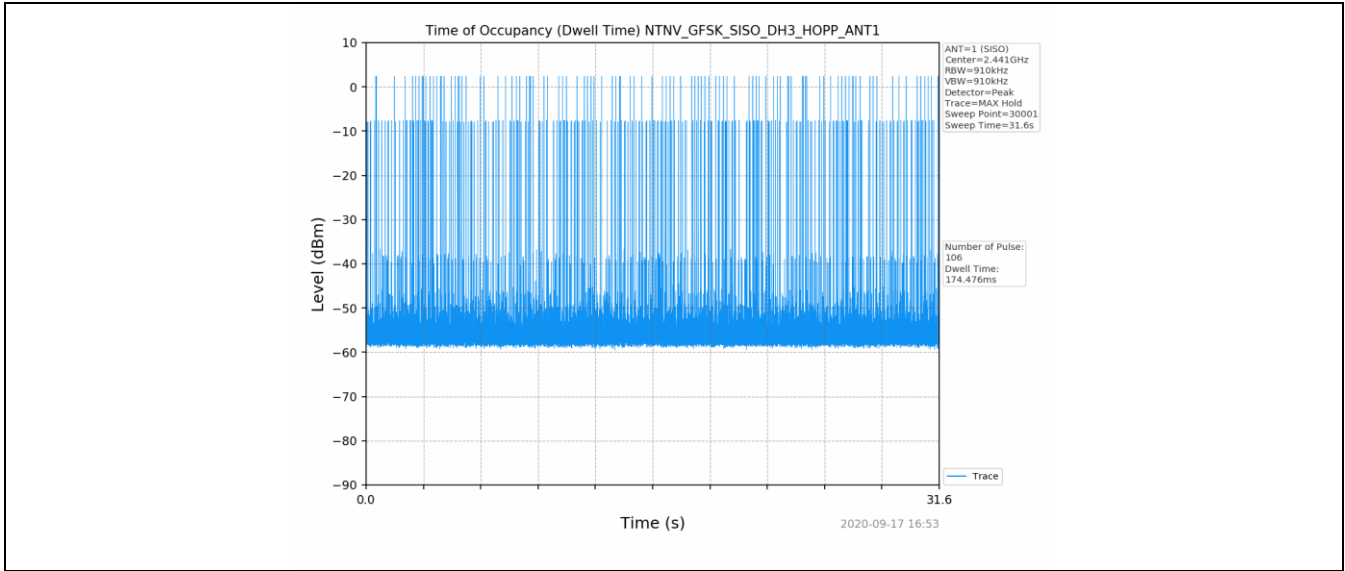
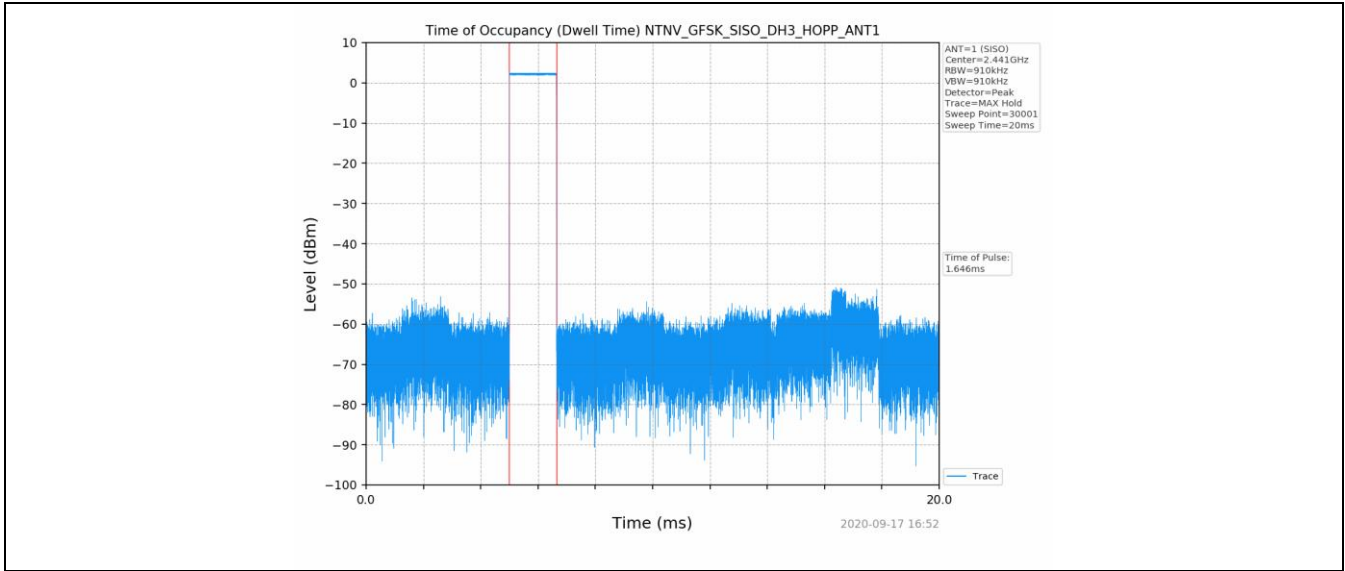
## 5. Time of Occupancy (Dwell Time)

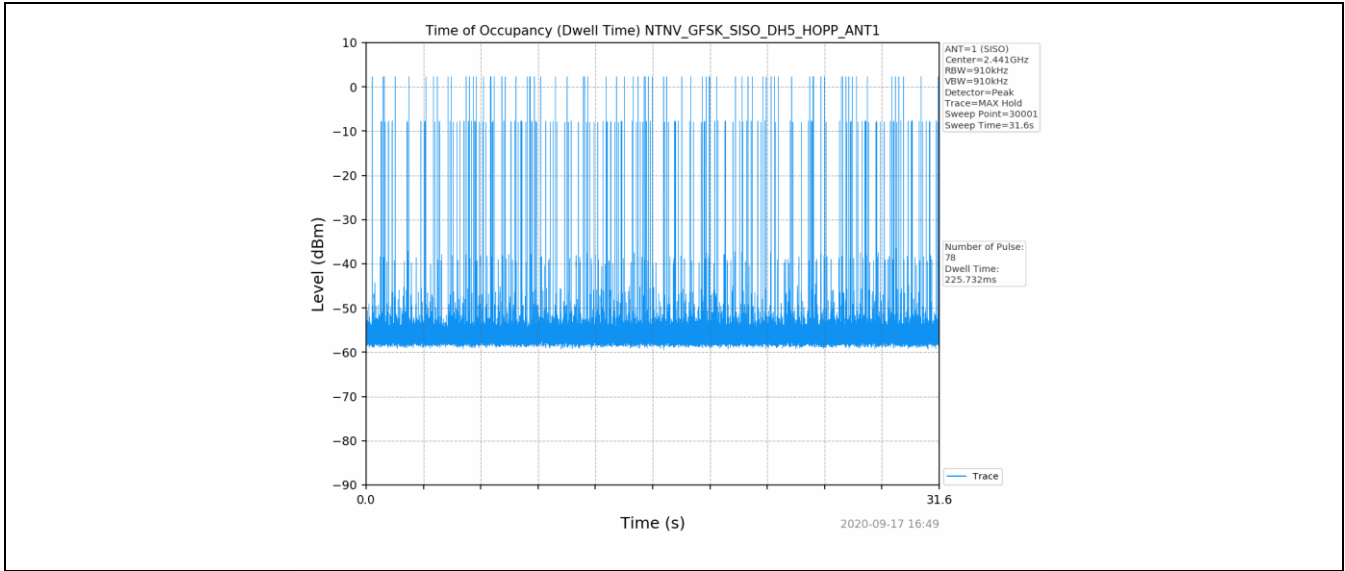
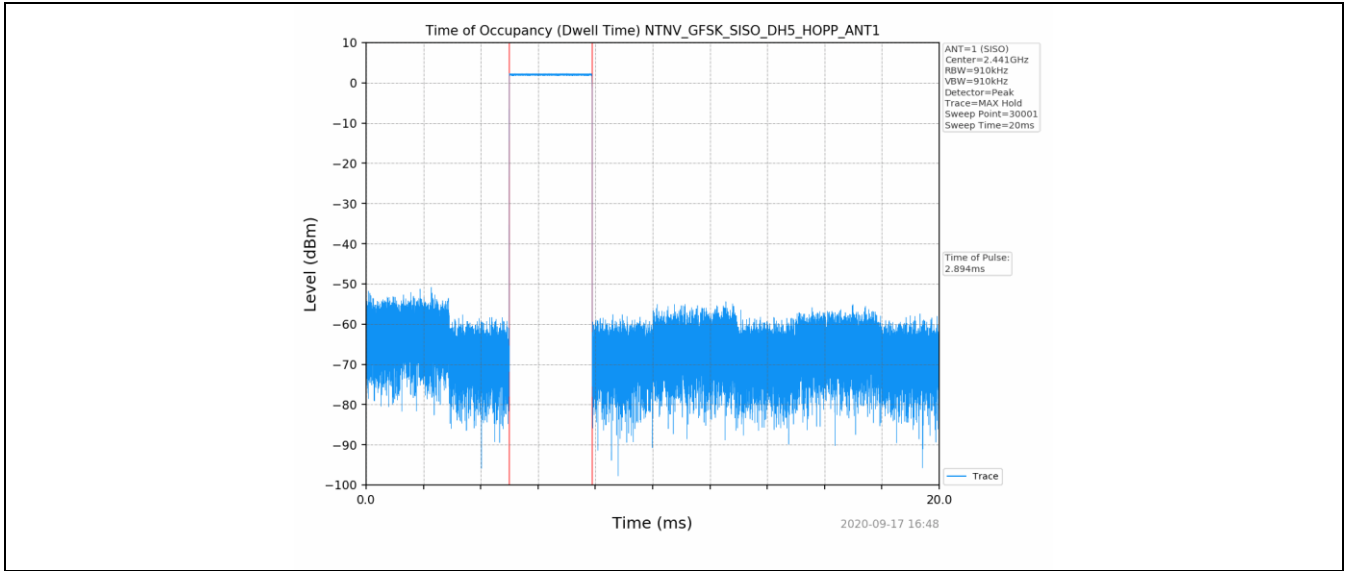
### 5.1 Test Result

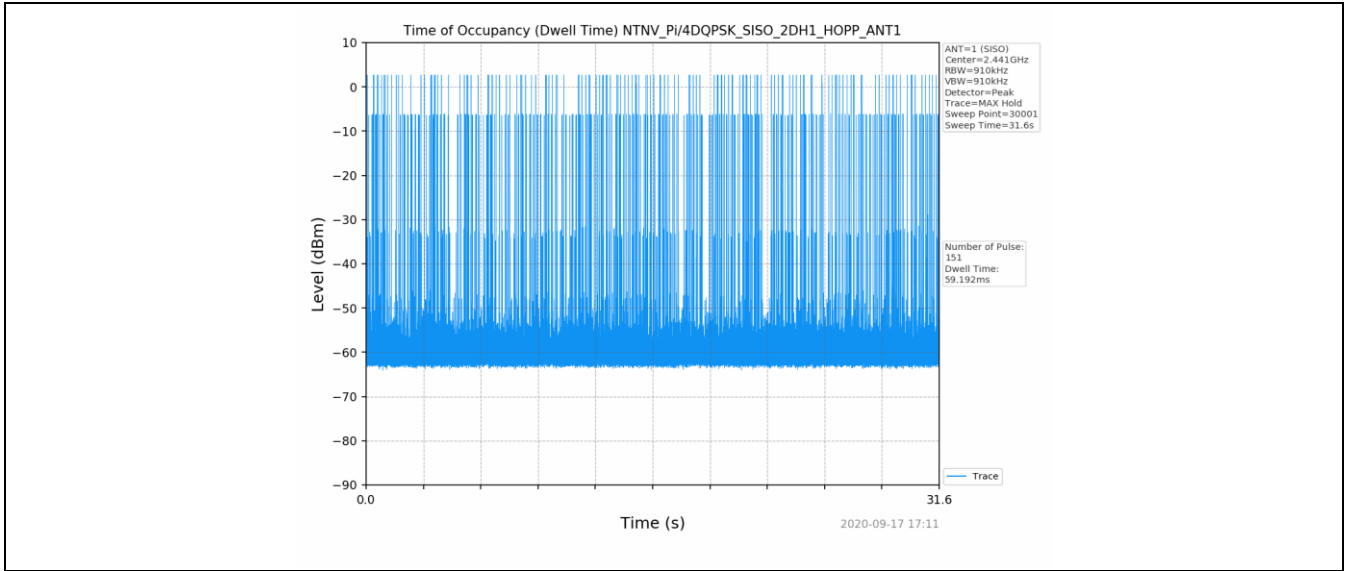
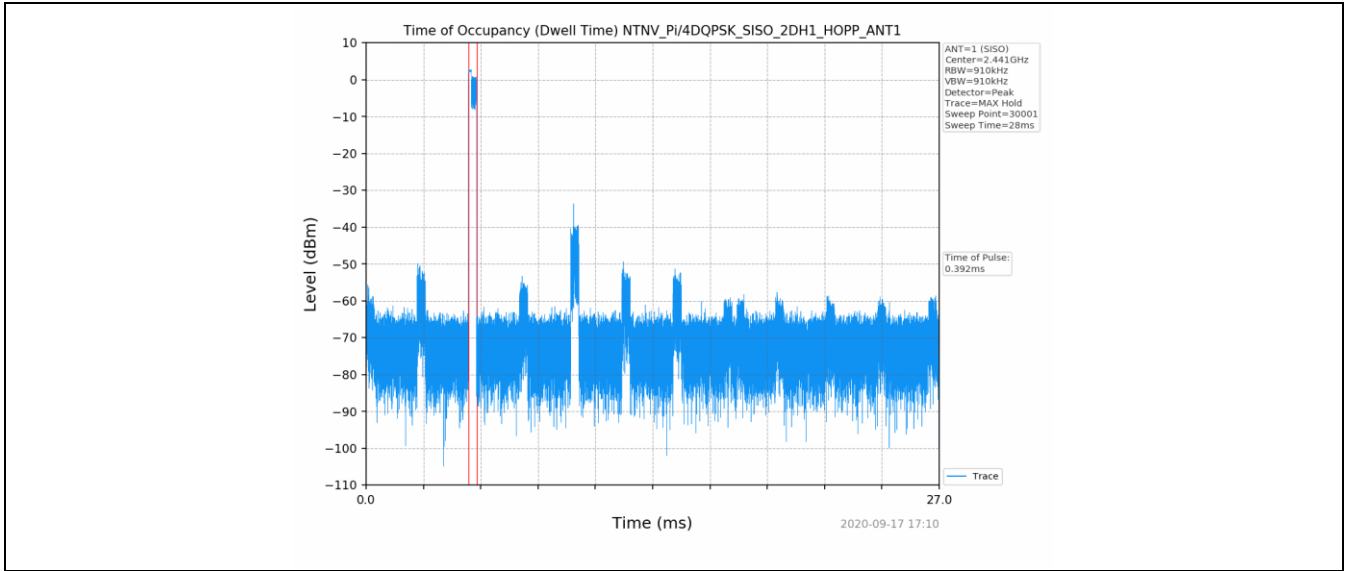
Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.393	31.6	153	60.129	≤400	PASS
	DH3	SISO	1	1.646	31.6	106	174.476	≤400	PASS
	DH5	SISO	1	2.894	31.6	78	225.732	≤400	PASS
Pi/4D QPS K	2DH1	SISO	1	0.392	31.6	151	59.192	≤400	PASS
	2DH3	SISO	1	1.655	31.6	110	182.050	≤400	PASS
	2DH5	SISO	1	2.903	31.6	79	229.337	≤400	PASS
8DPS K	3DH1	SISO	1	0.405	31.6	150	60.750	≤400	PASS
	3DH3	SISO	1	1.657	31.6	110	182.270	≤400	PASS
	3DH5	SISO	1	2.909	31.6	82	238.538	≤400	PASS

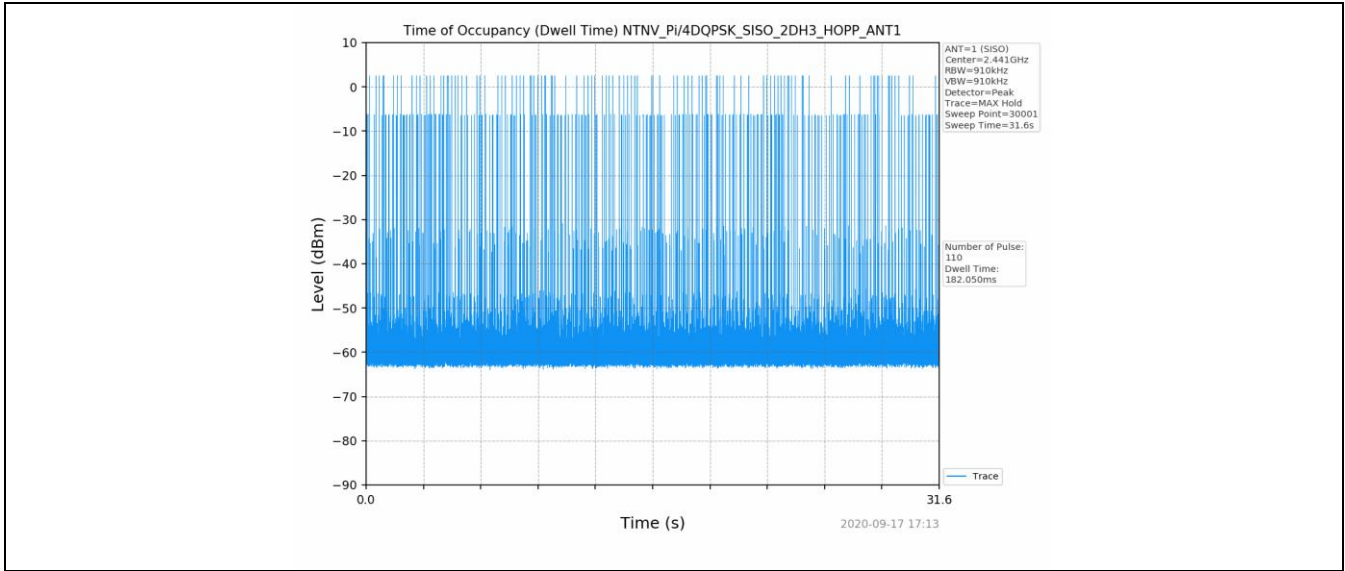
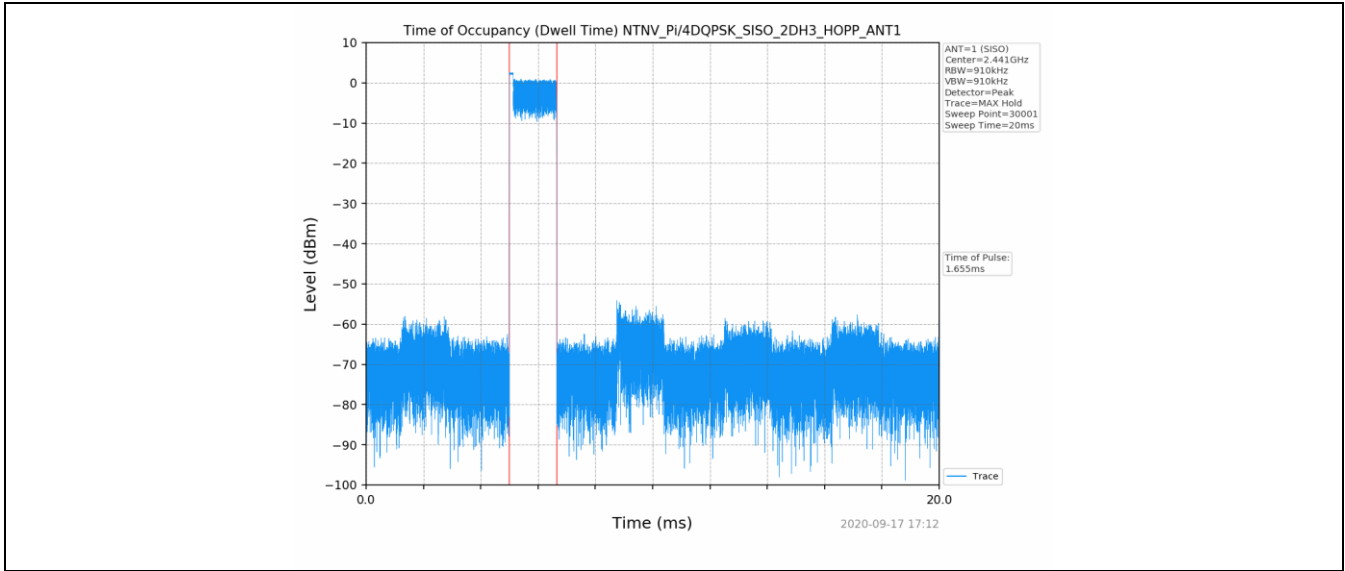
### 5.2 Test Graph

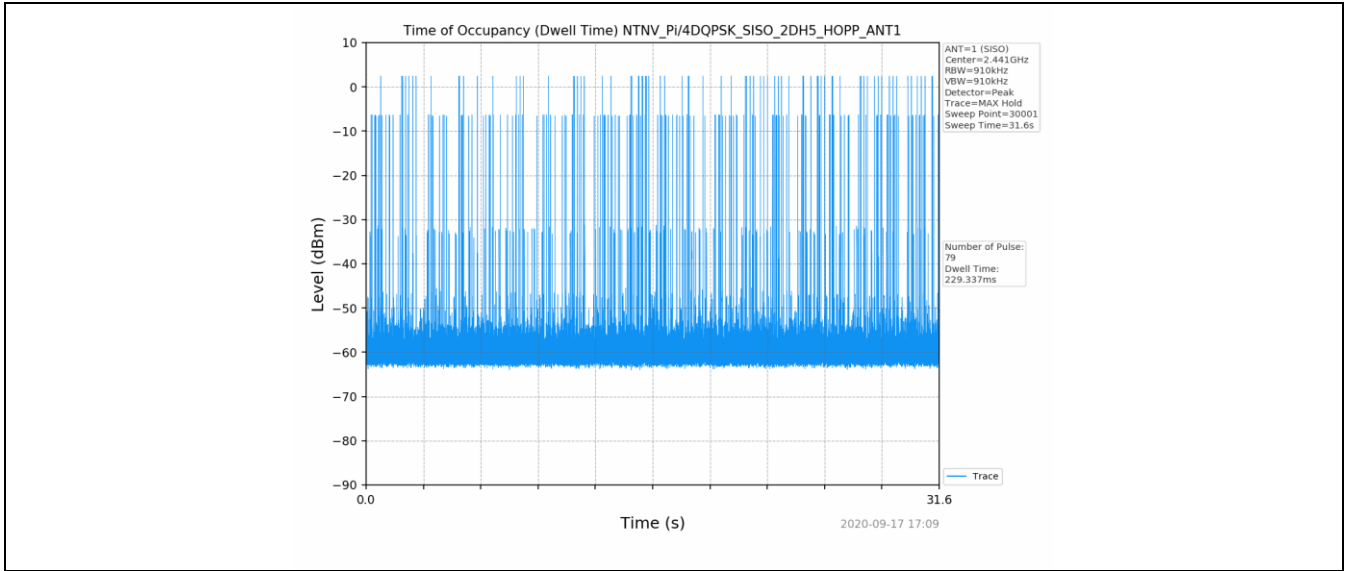
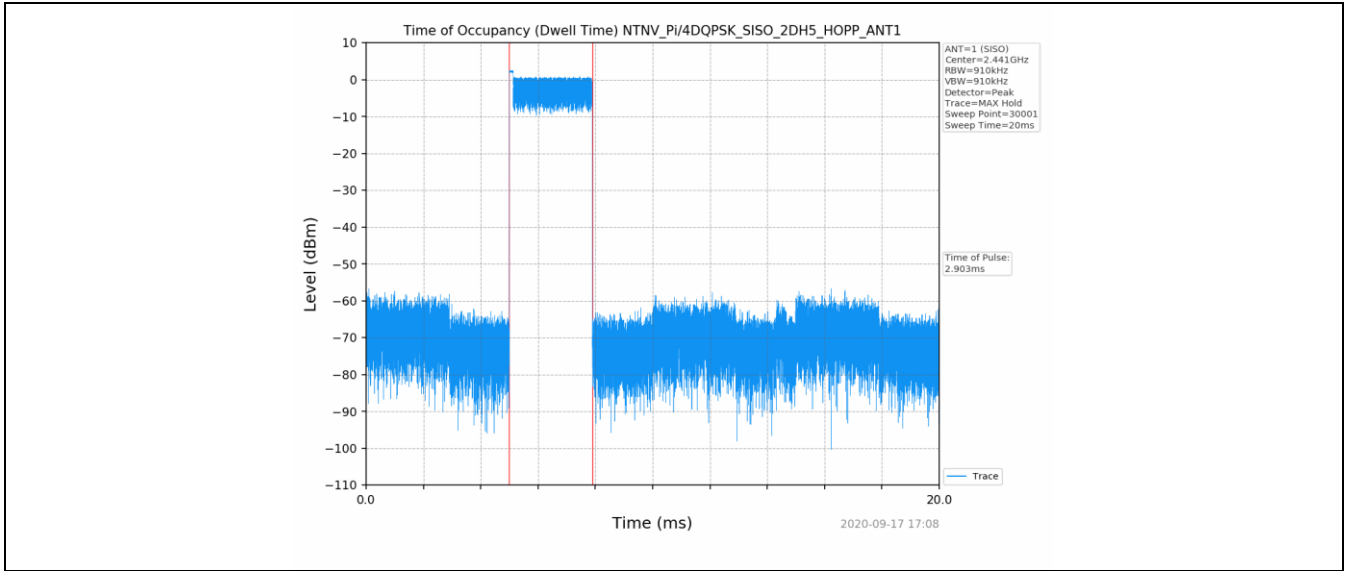




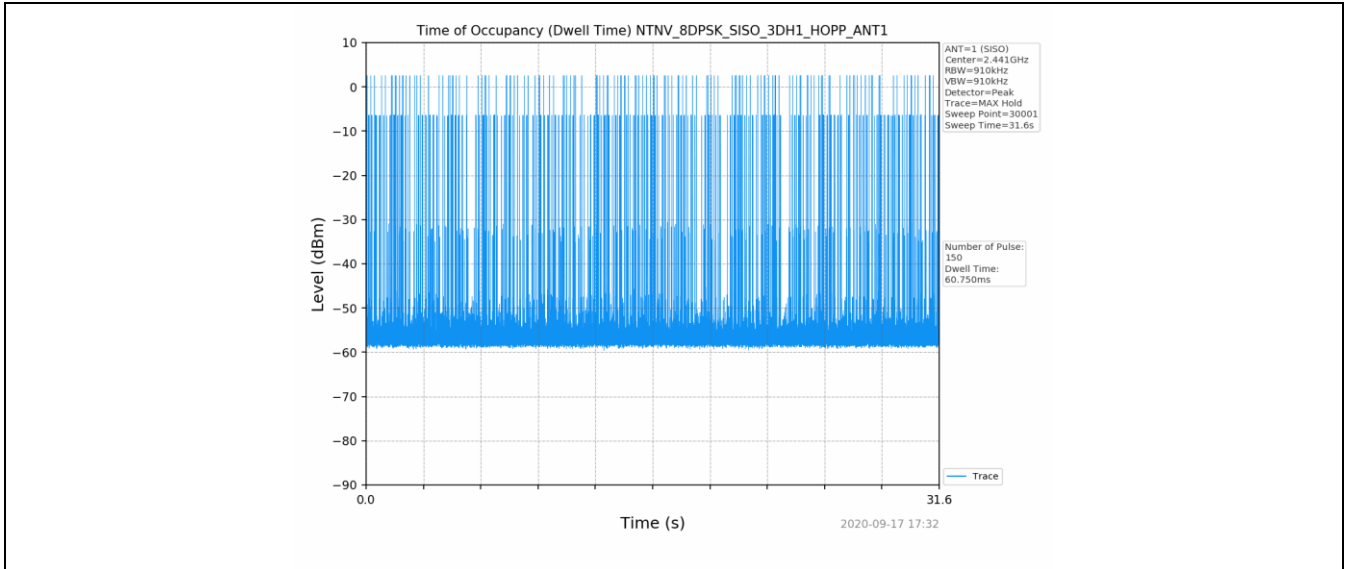
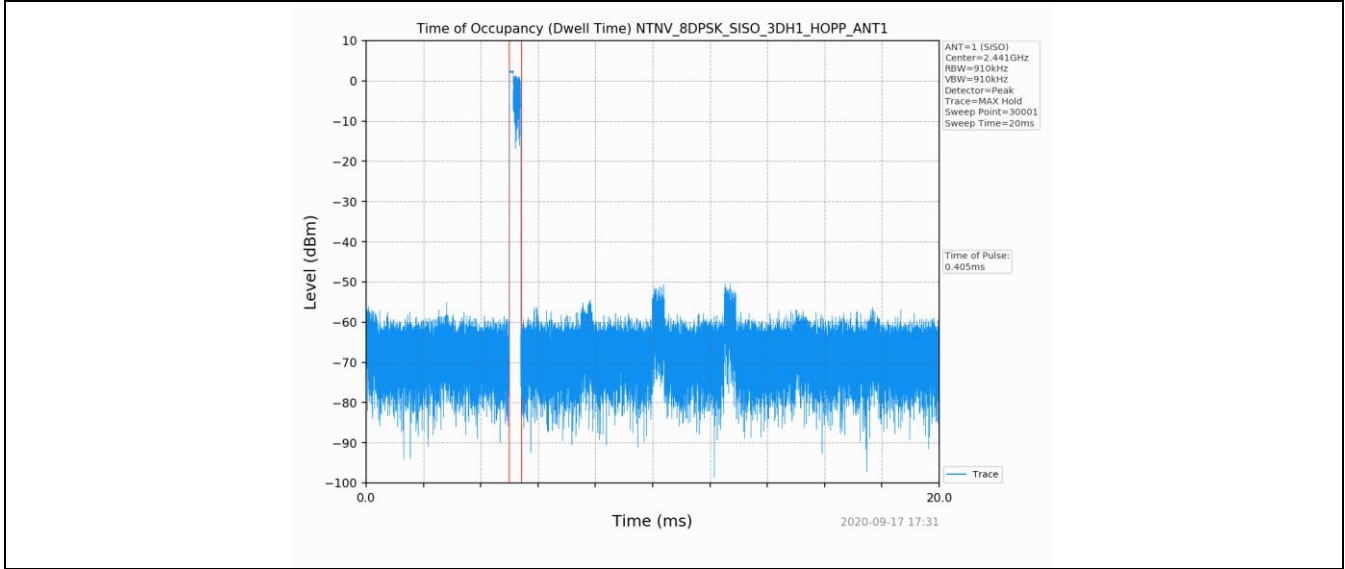


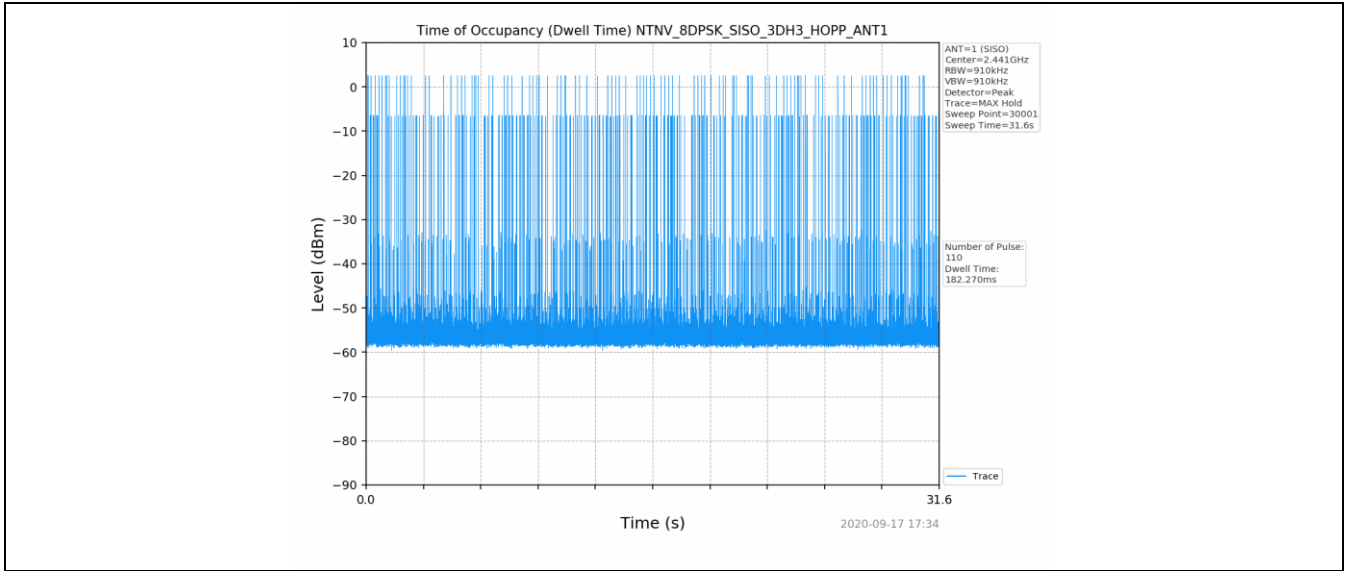
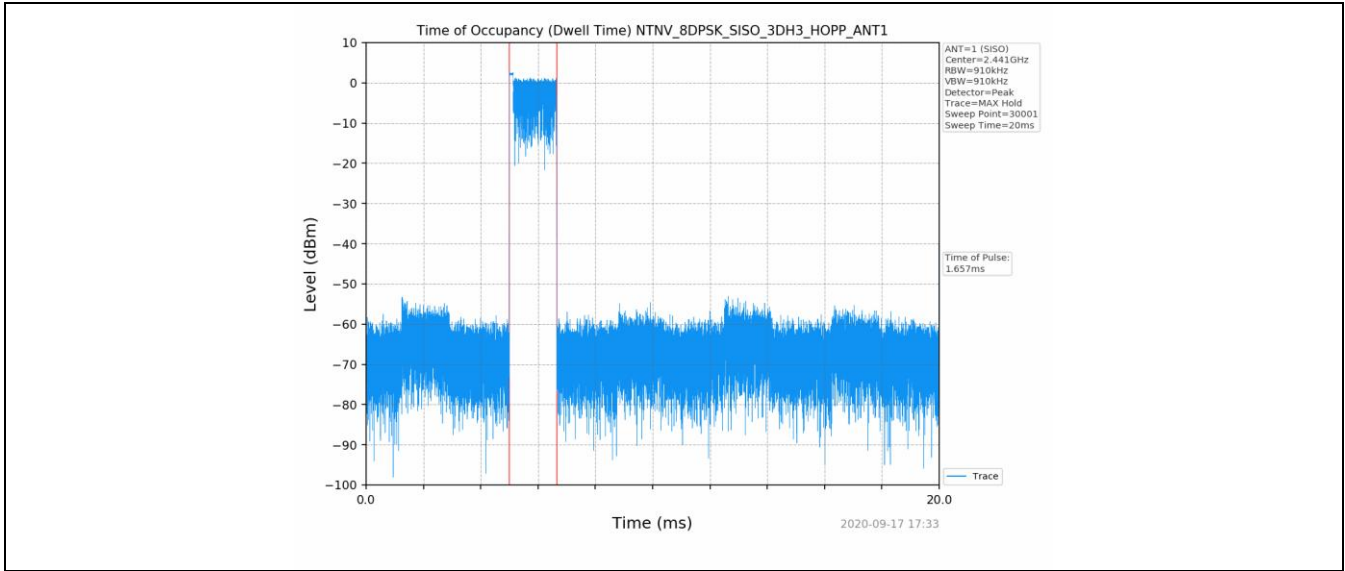


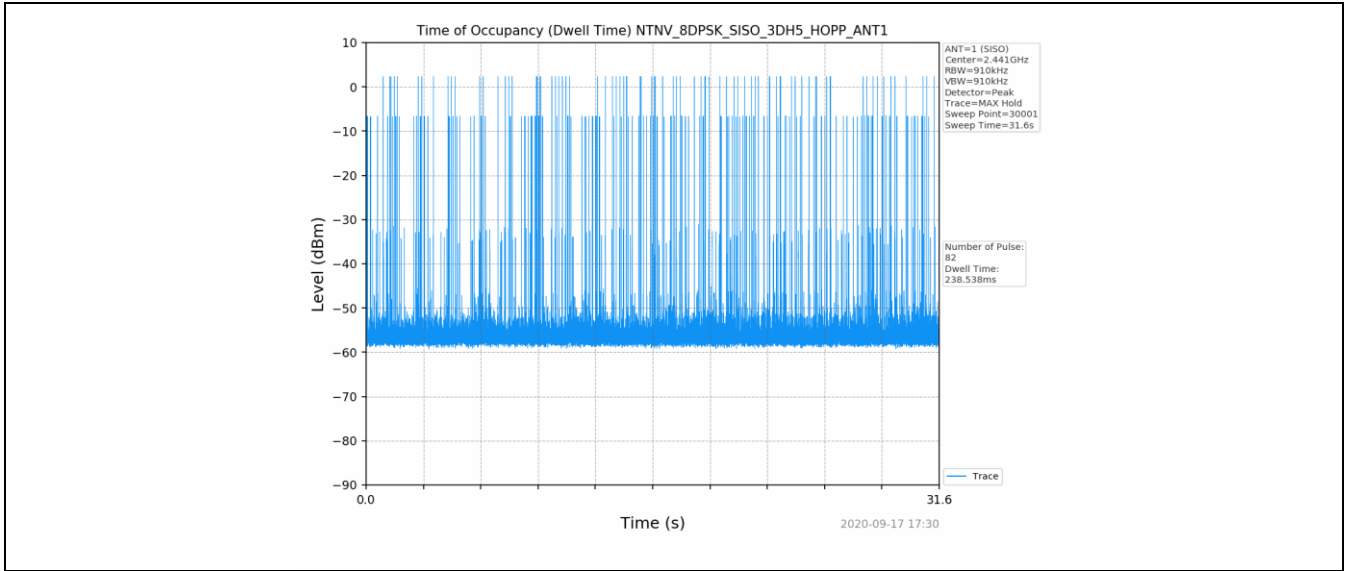
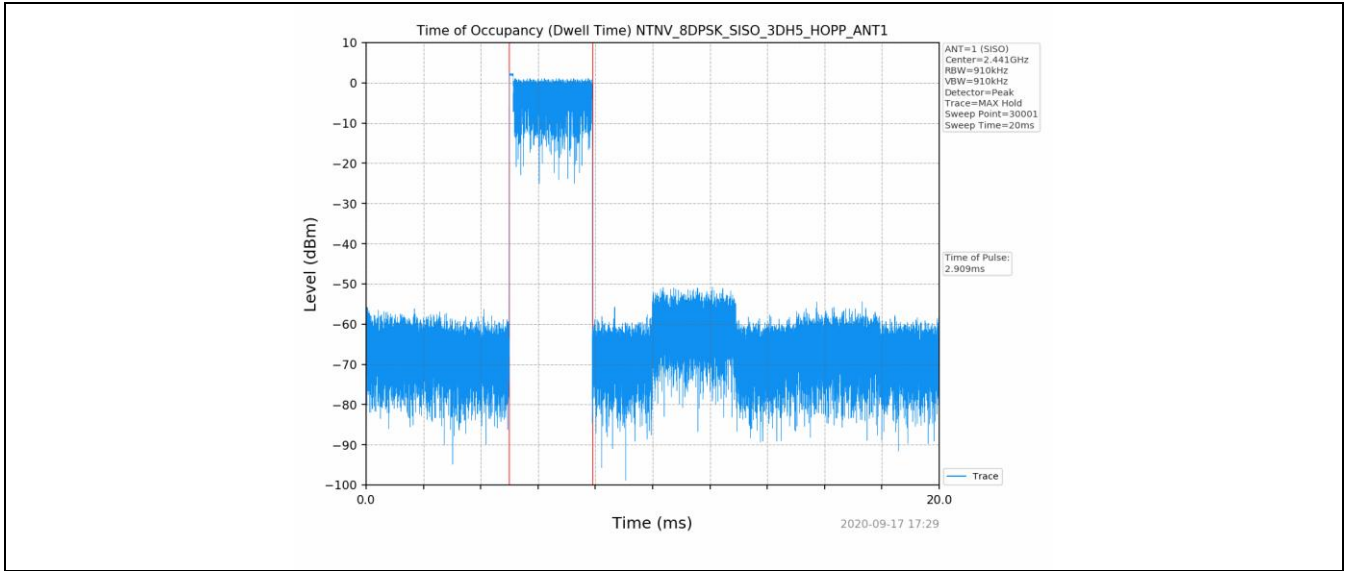












## 6. Unwanted Emissions in Non-restricted Frequency Bands

### 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	-17.97	PASS
	2441	SISO	1	Refer to test graph	-17.97	PASS
	2480	SISO	1	Refer to test graph	-17.97	PASS
	Hopping	SISO	1	Refer to test graph	-17.97	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-17.95	PASS
	2441	SISO	1	Refer to test graph	-17.95	PASS
	2480	SISO	1	Refer to test graph	-17.95	PASS
	Hopping	SISO	1	Refer to test graph	-17.95	PASS
8DPSK	2402	SISO	1	Refer to test graph	-17.84	PASS

	2441	SISO	1	Refer to test graph	-17.84	PASS
	2480	SISO	1	Refer to test graph	-17.84	PASS
	Hopping	SISO	1	Refer to test graph	-17.84	PASS

## 6.2 Test Graph

