

# Report No.: CTL2009111031-WF

## Appendix for 15.247

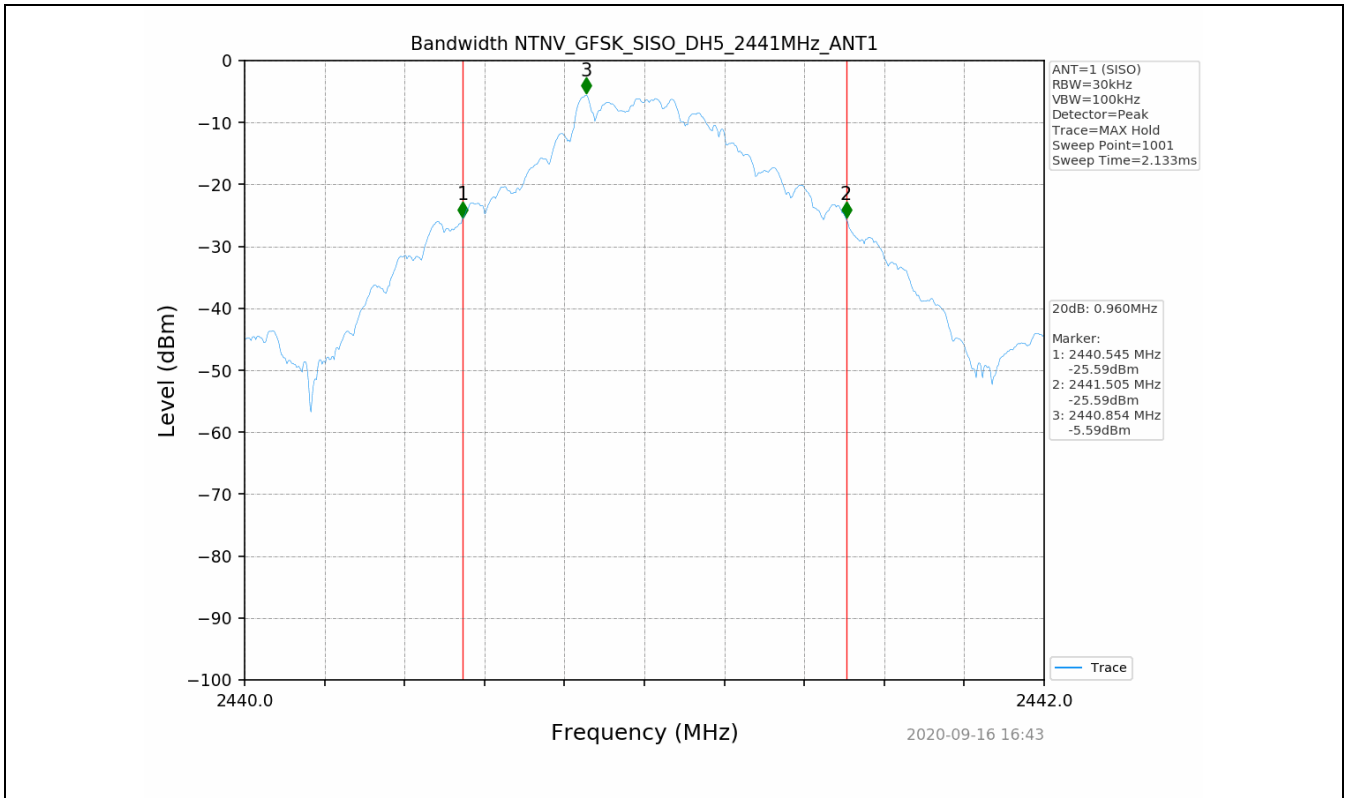
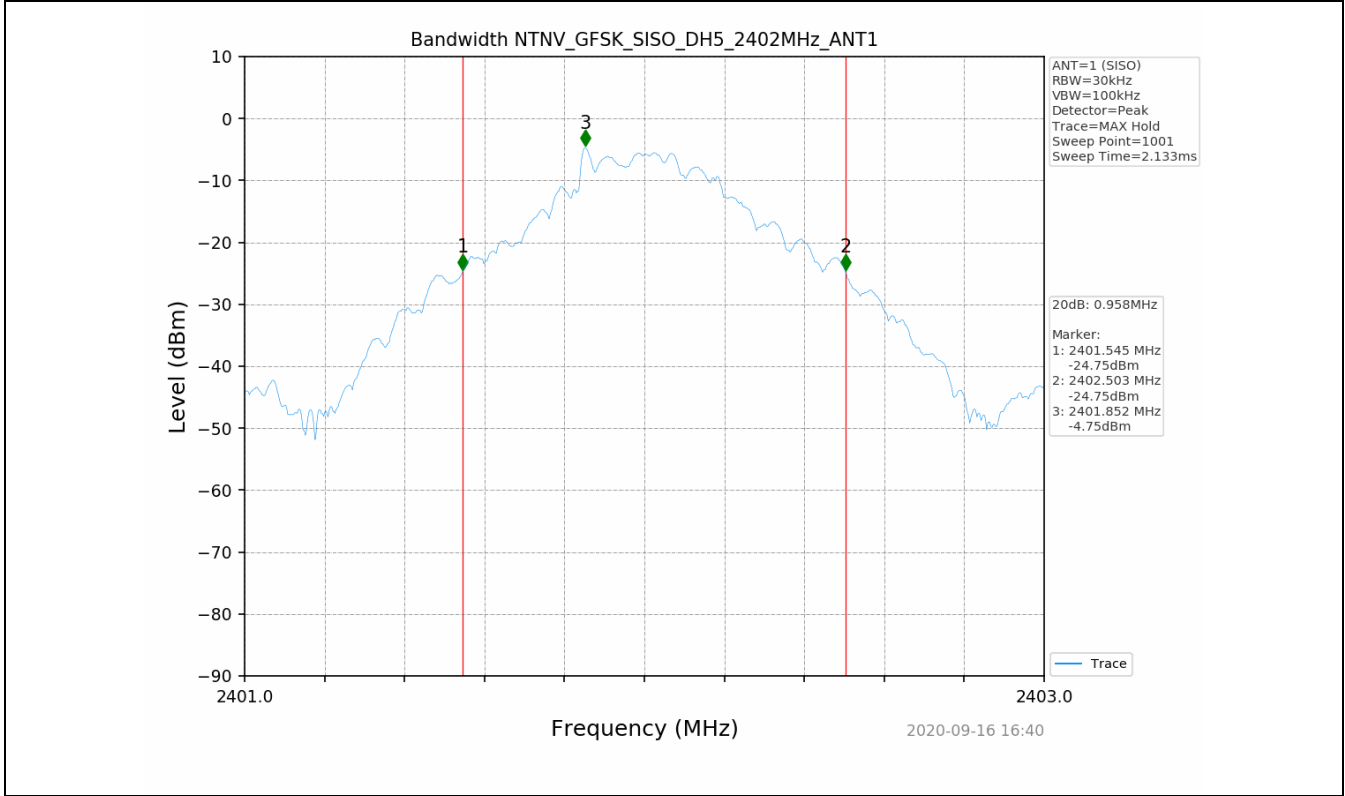
### 1. Bandwidth

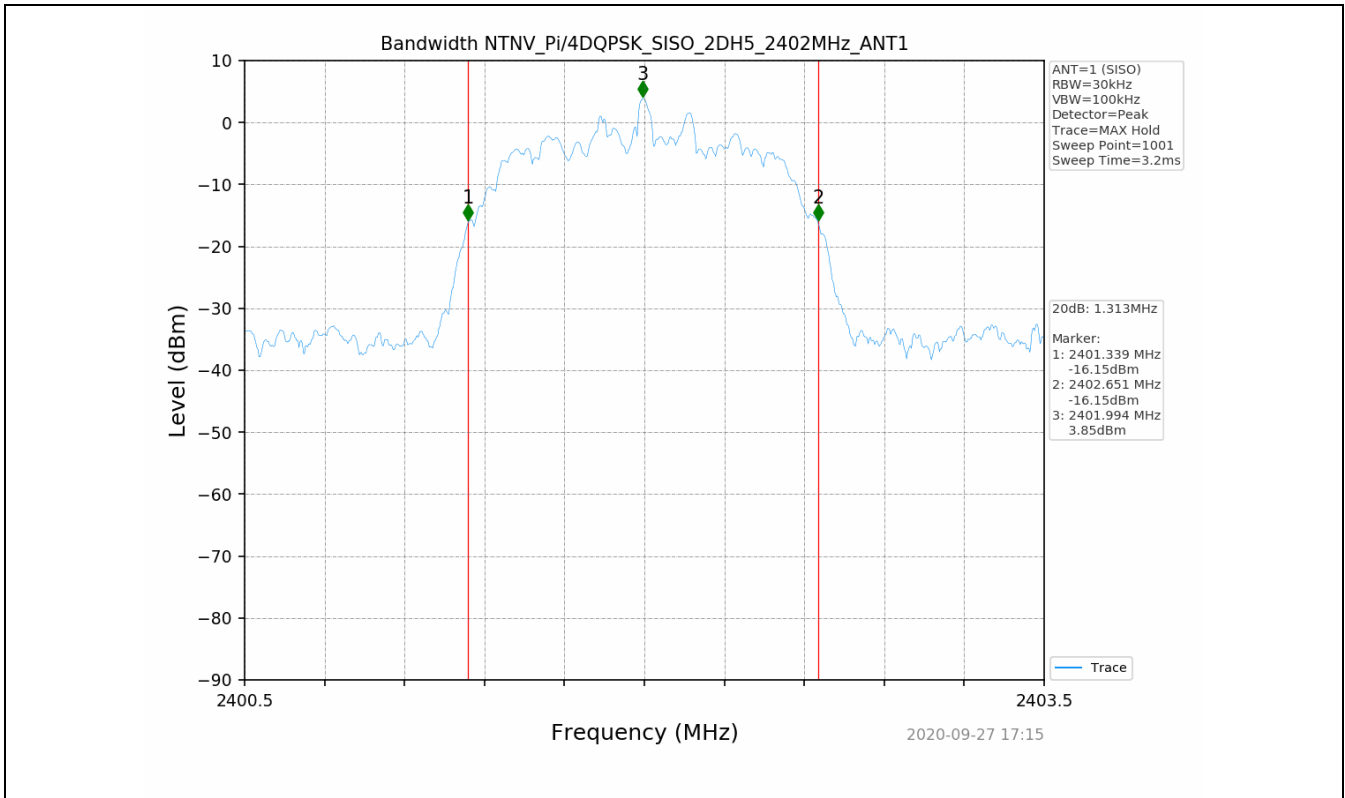
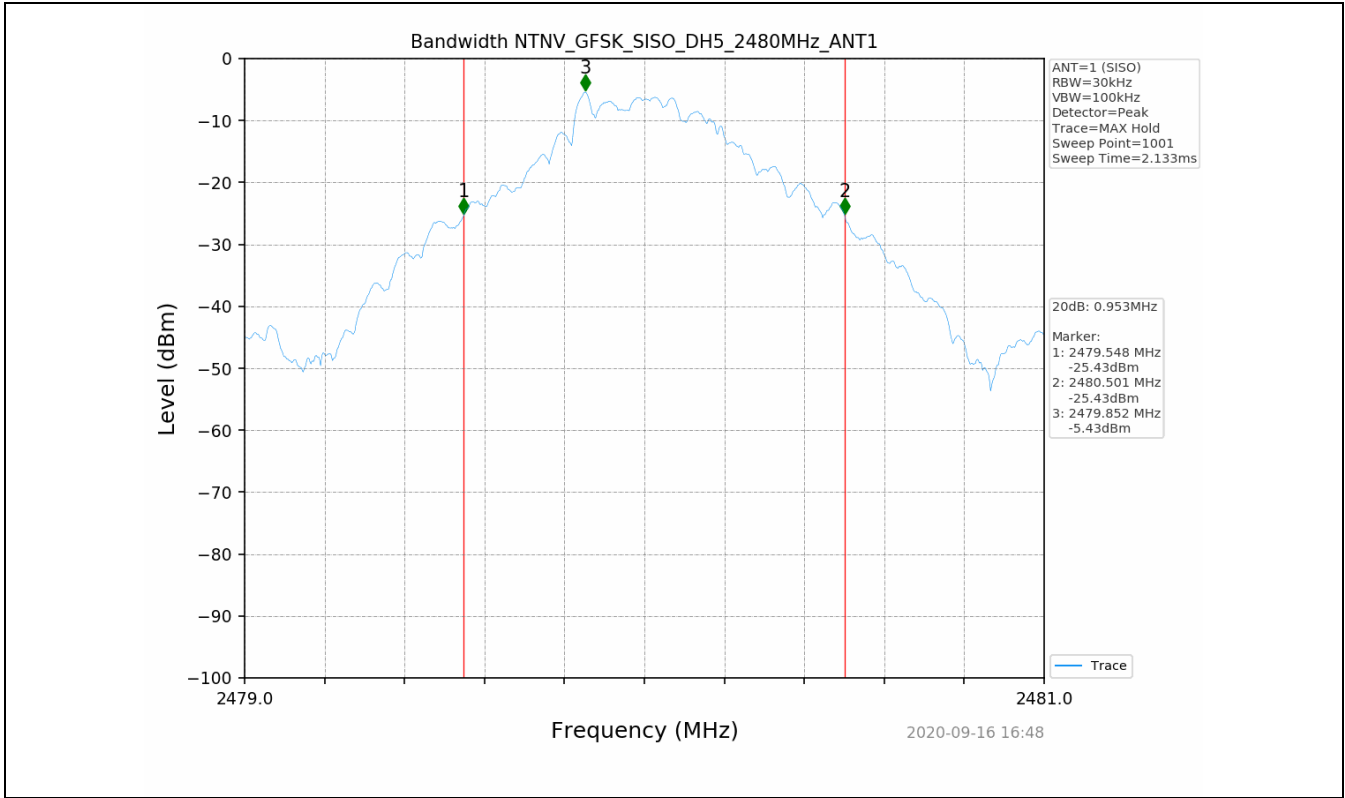
#### 1.1 Test Result

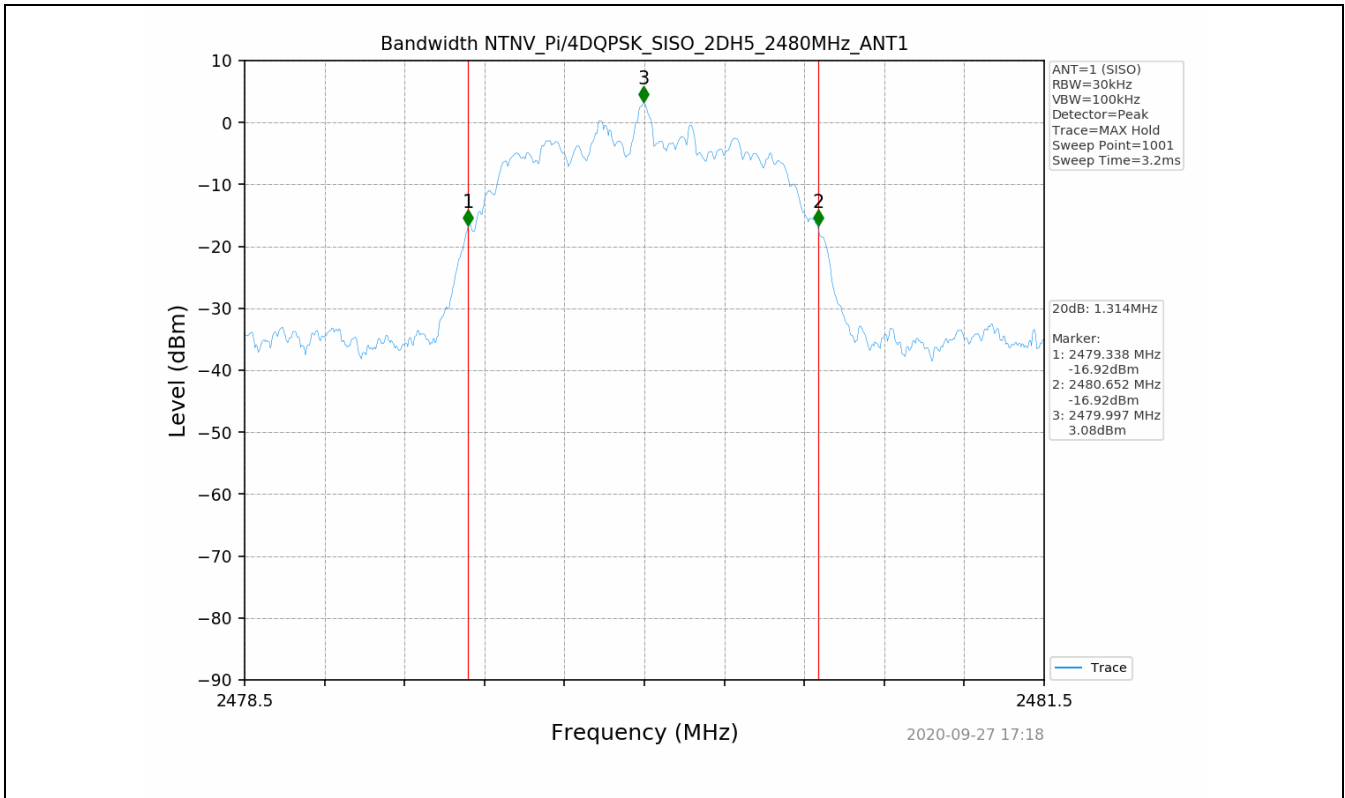
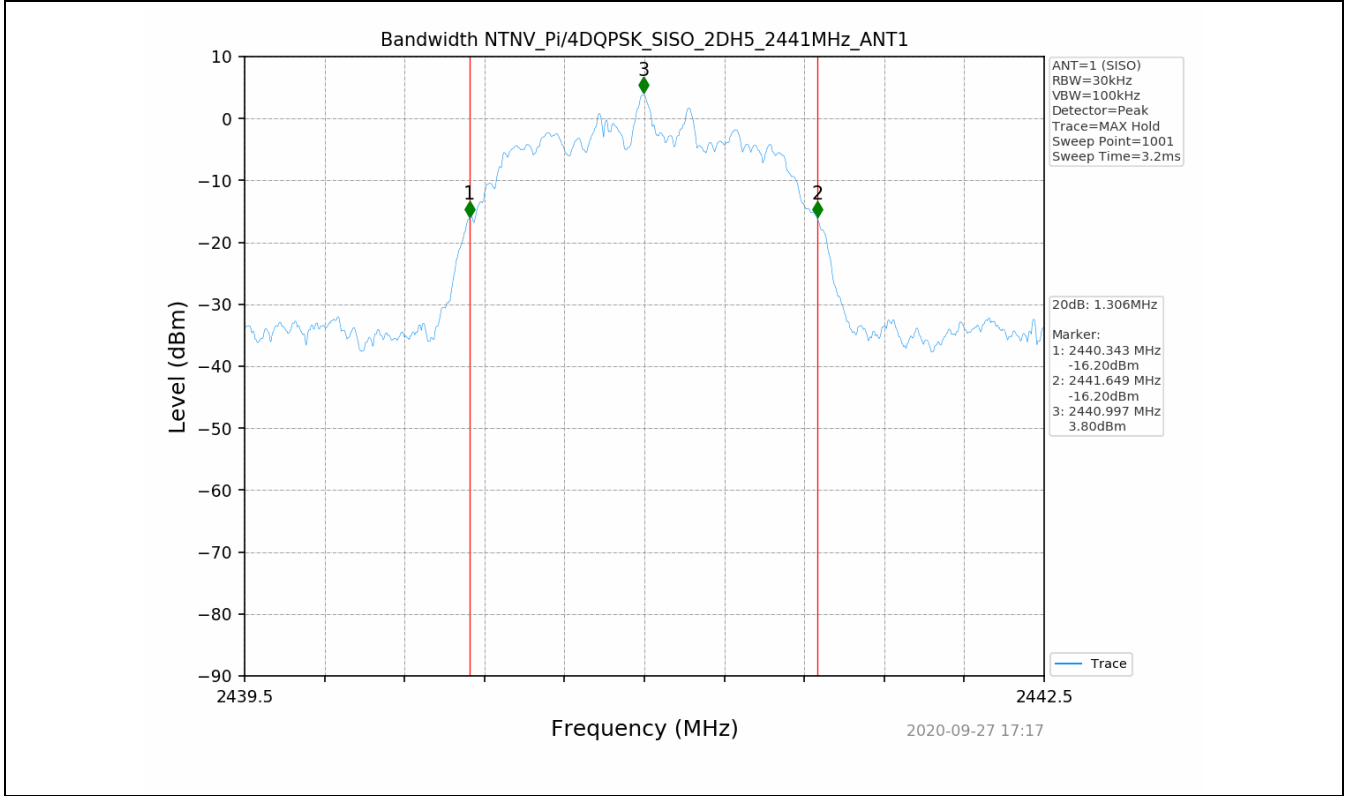
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.958	PASS
	2441	SISO	1	0.960	PASS
	2480	SISO	1	0.953	PASS
Pi/4DQPSK	2402	SISO	1	1.313	PASS
	2441	SISO	1	1.306	PASS
	2480	SISO	1	1.314	PASS
8DPSK	2402	SISO	1	1.341	PASS
	2441	SISO	1	1.352	PASS
	2480	SISO	1	1.350	PASS

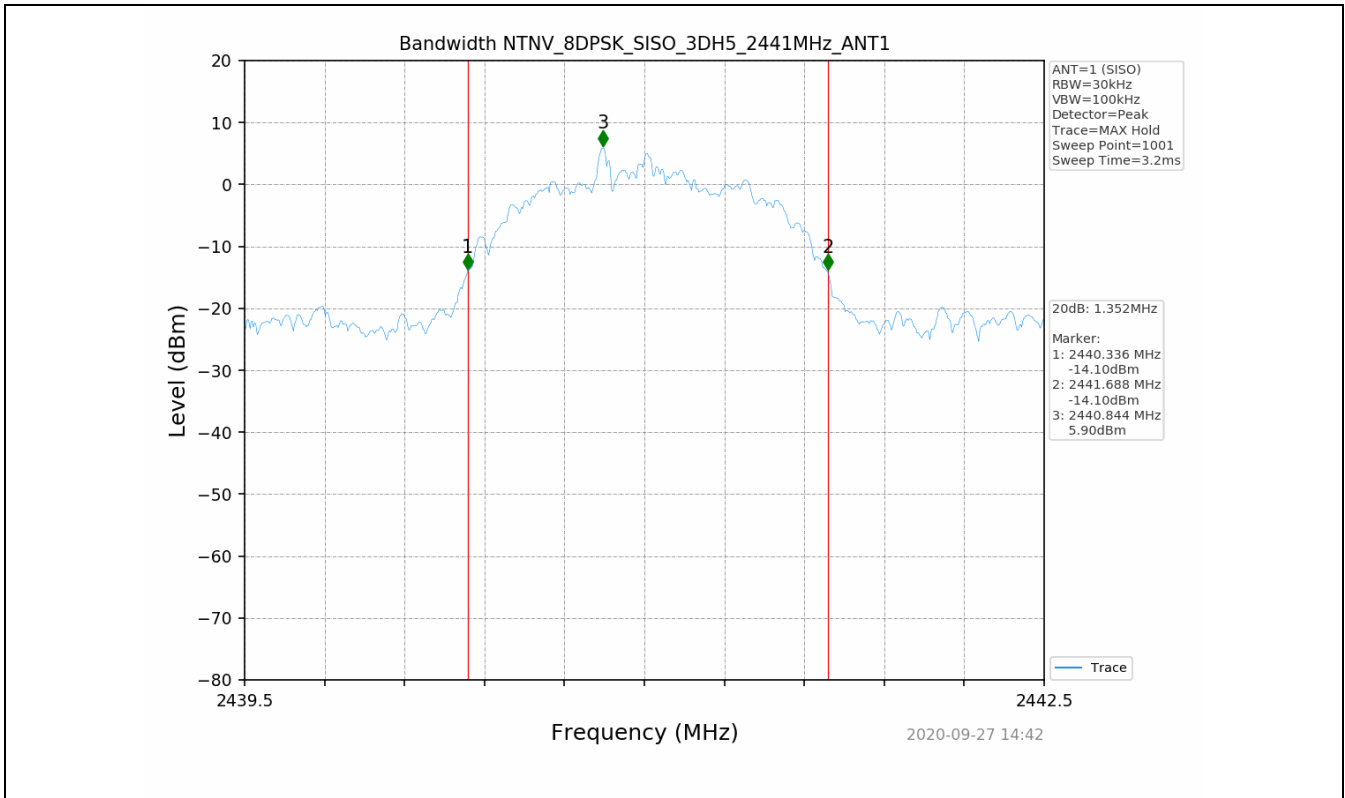
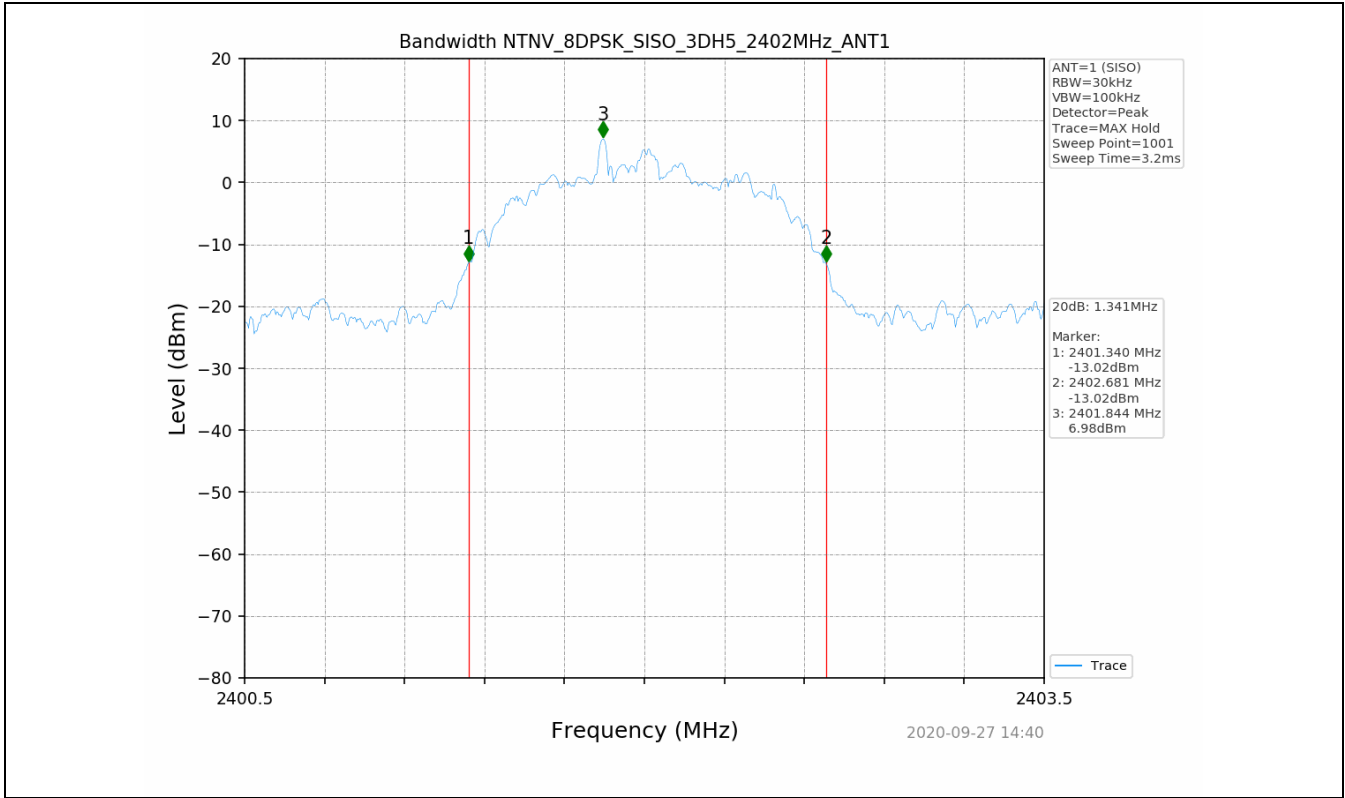
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.888	Only for Report Use
	2441	SISO	1	0.894	Only for Report Use
	2480	SISO	1	0.889	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.192	Only for Report Use
	2441	SISO	1	1.208	Only for Report Use
	2480	SISO	1	1.199	Only for Report Use
8DPSK	2402	SISO	1	1.340	Only for Report Use
	2441	SISO	1	1.340	Only for Report Use
	2480	SISO	1	1.320	Only for Report Use

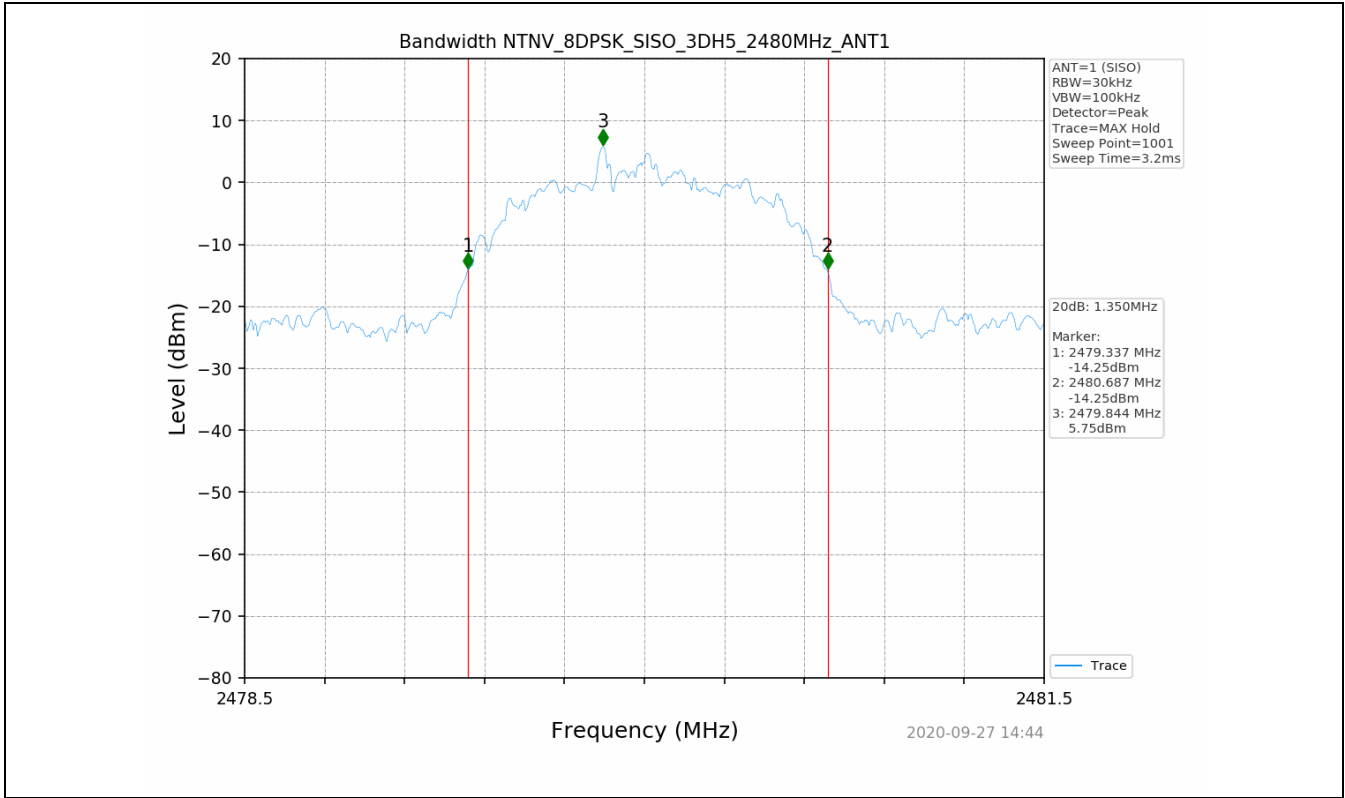
#### 1.2 Test Graph - 20dB Bandwidth



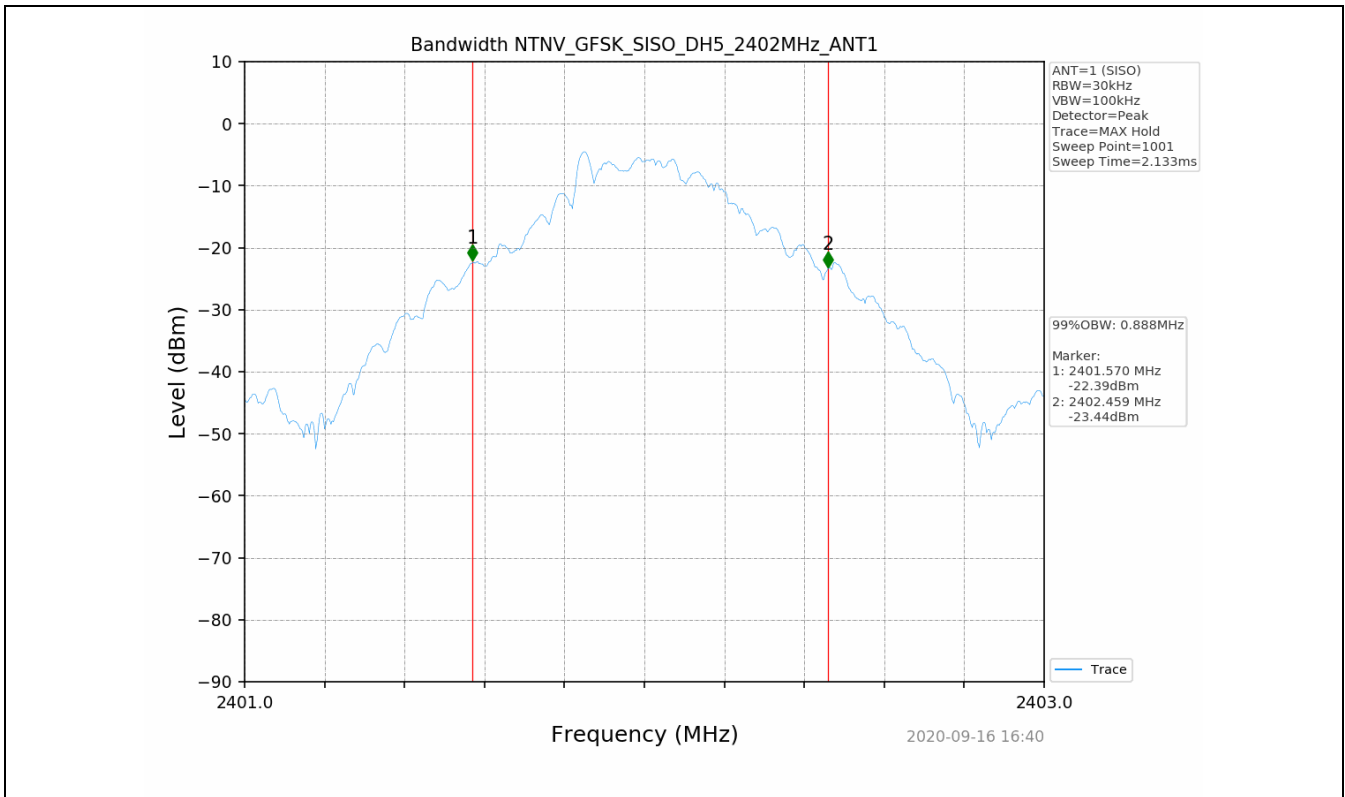


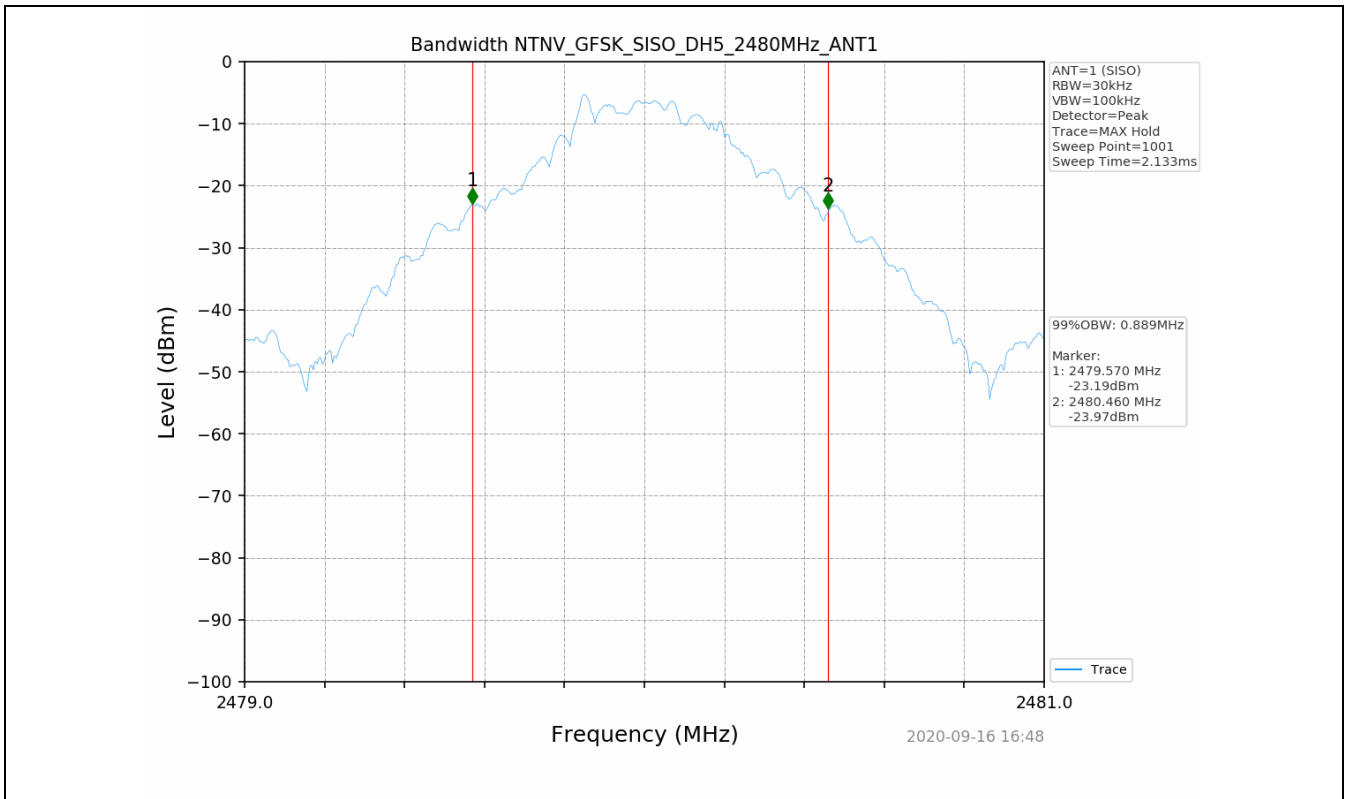
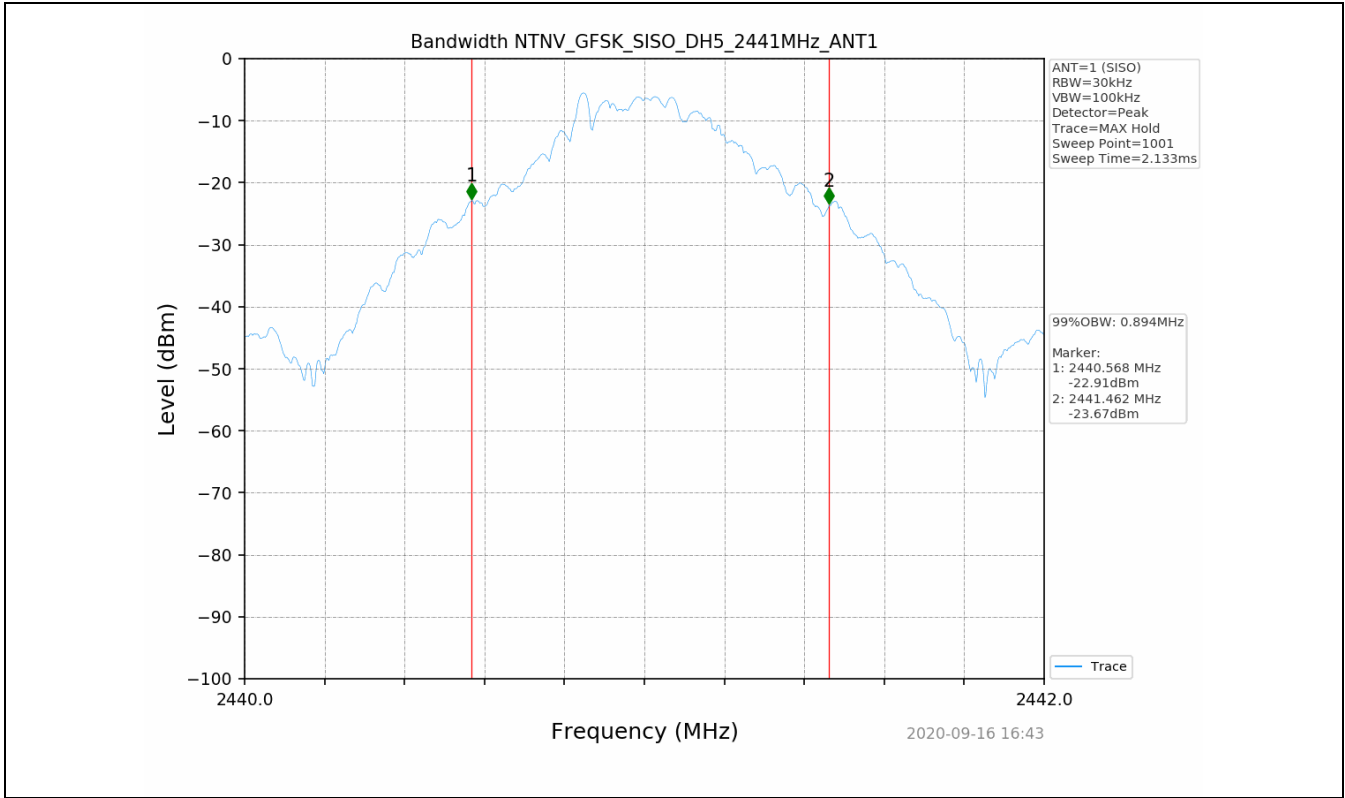


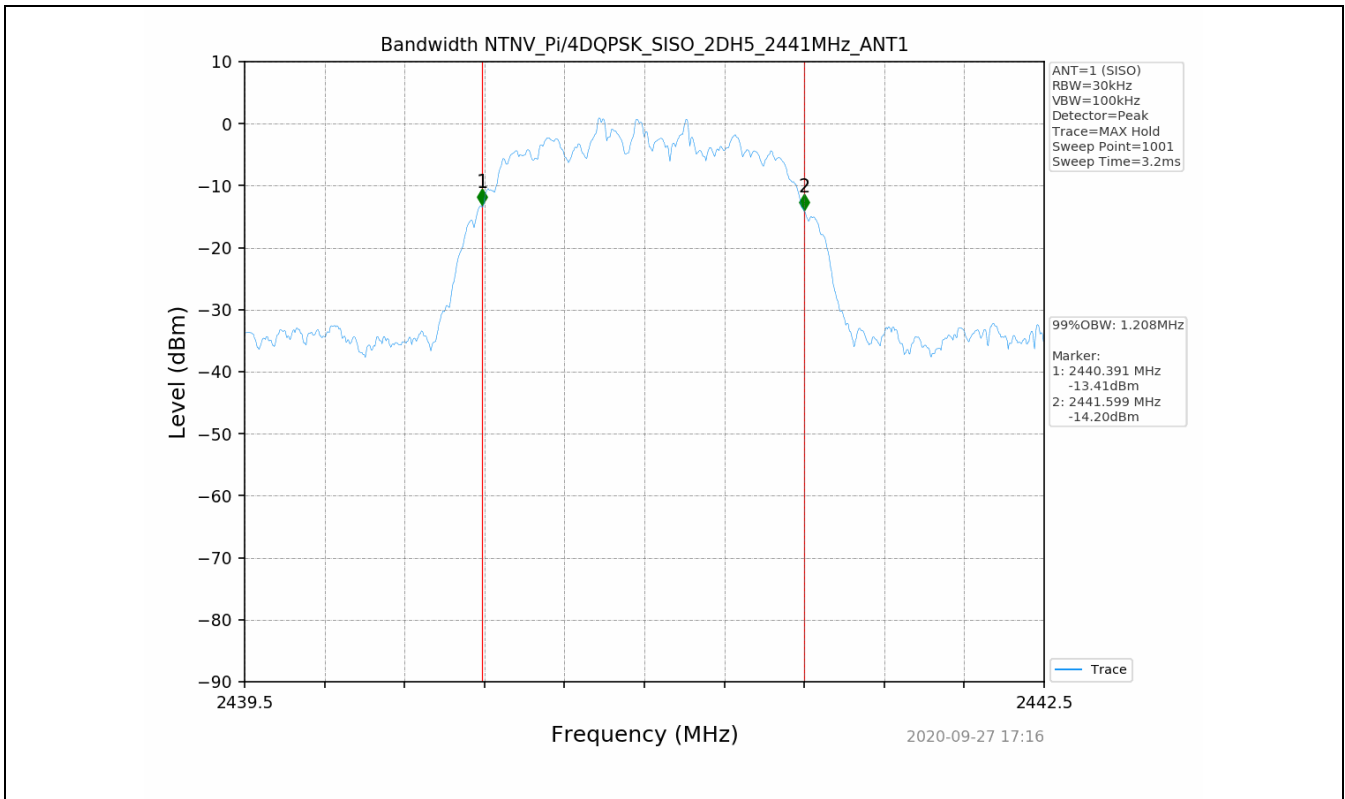
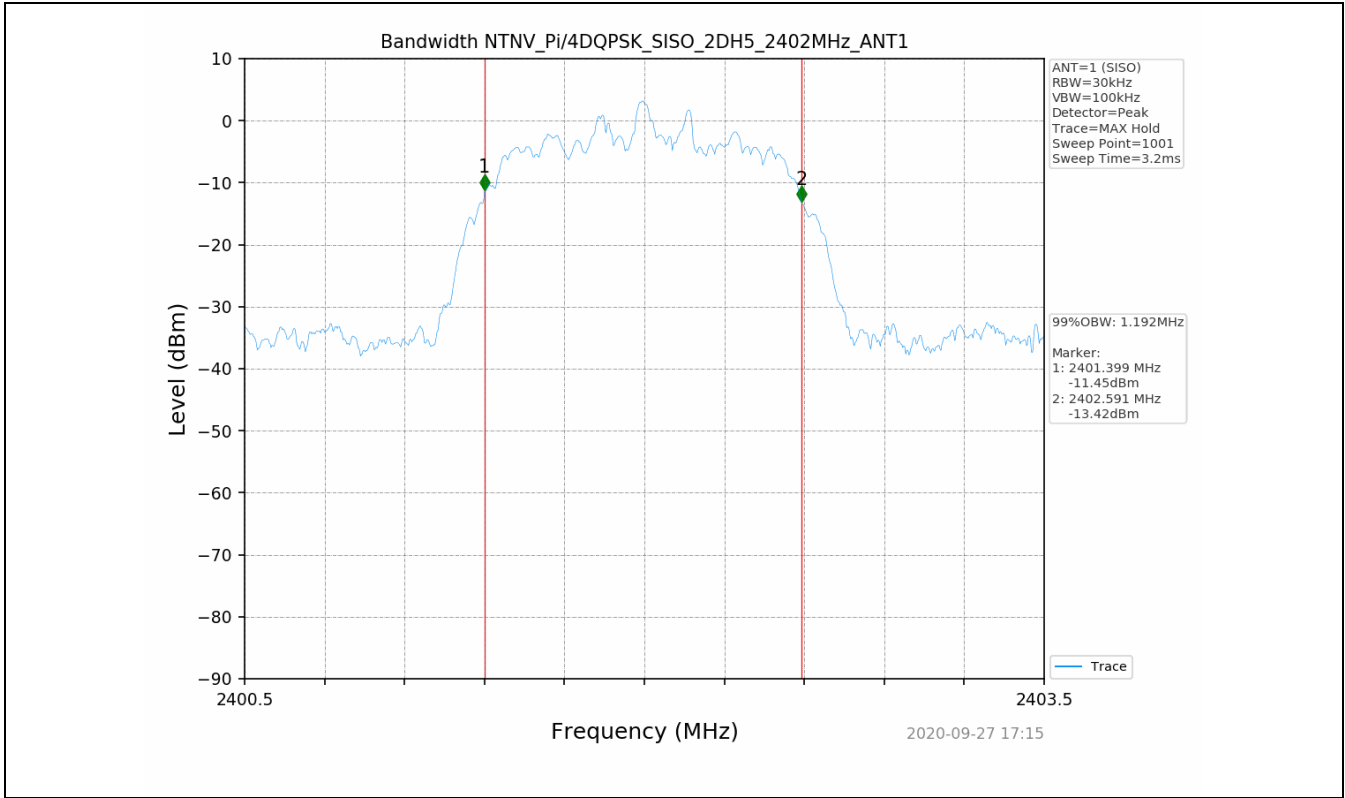




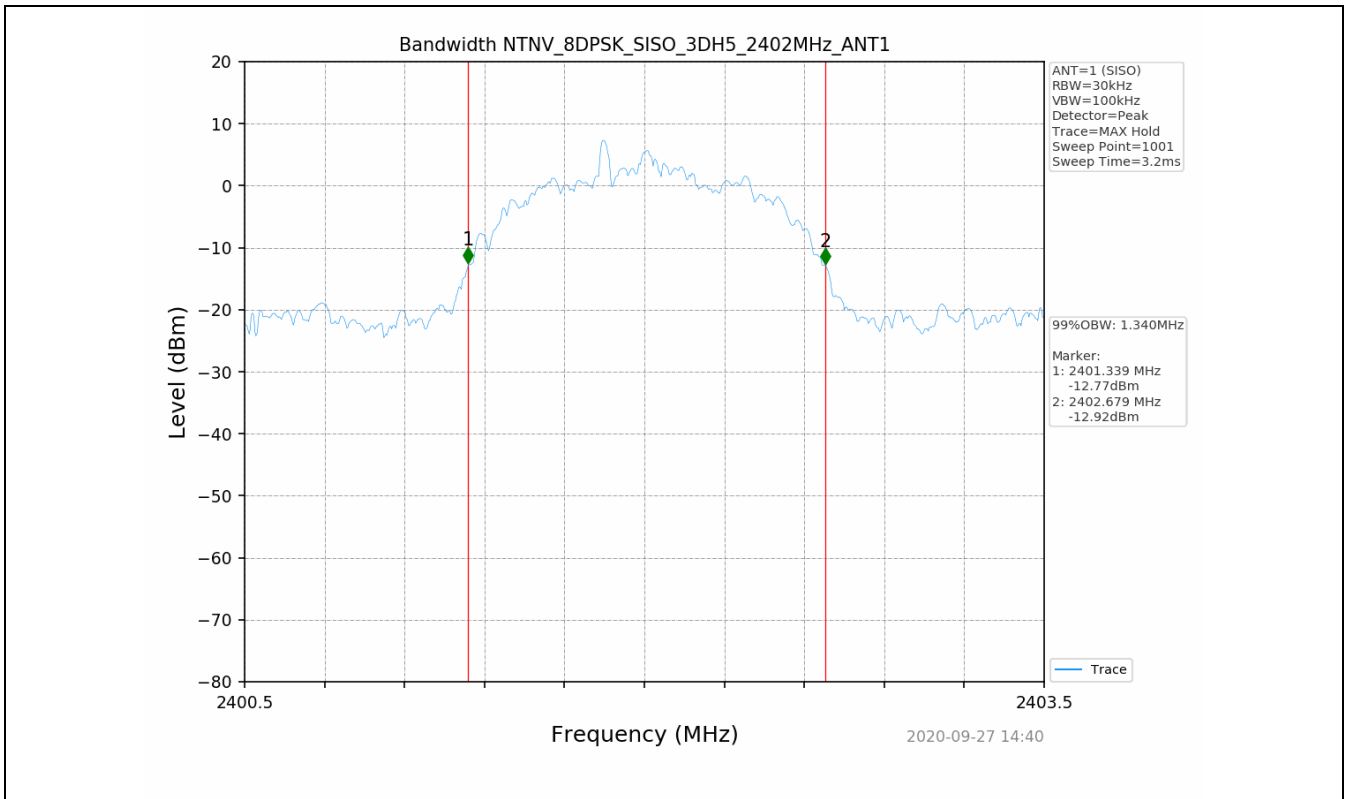
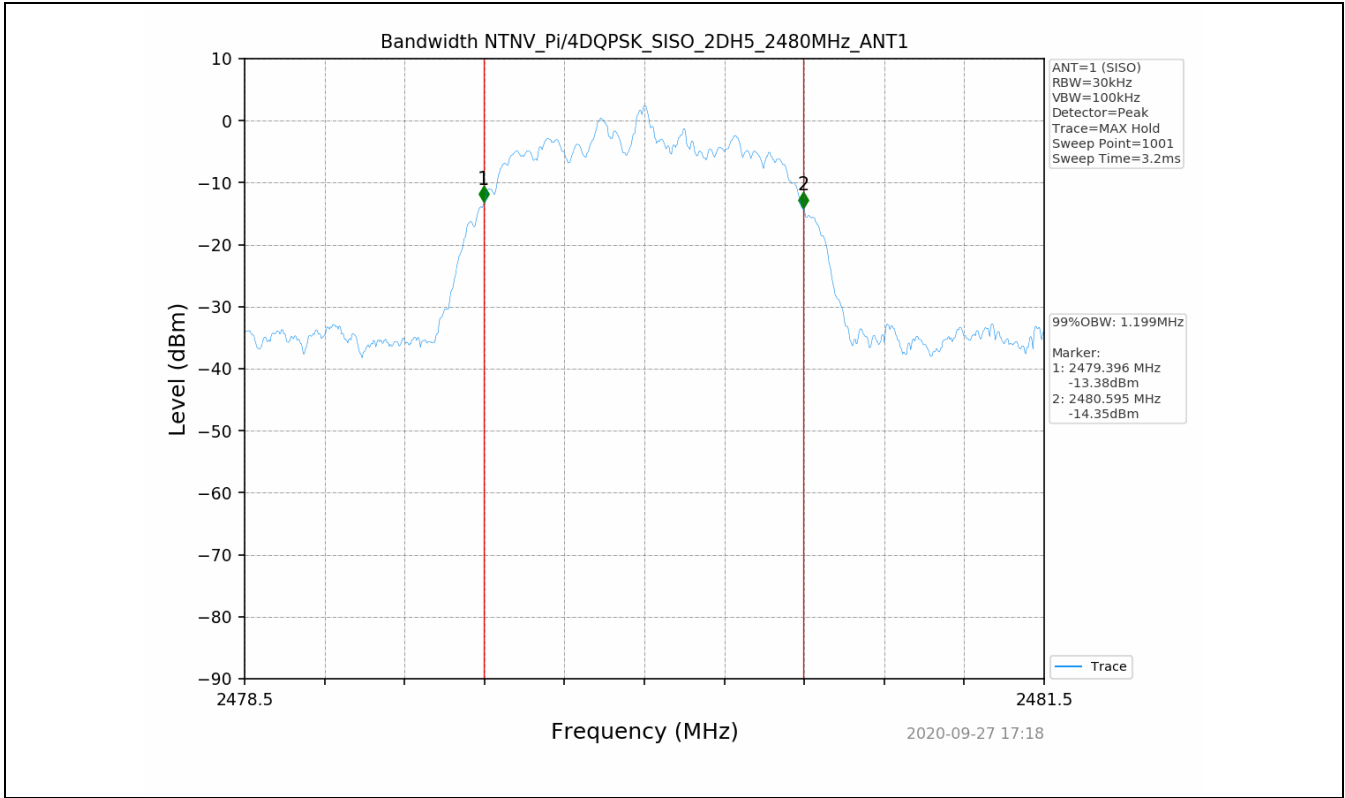
### 1.3 Test Graph - 99% Occupied Bandwidth

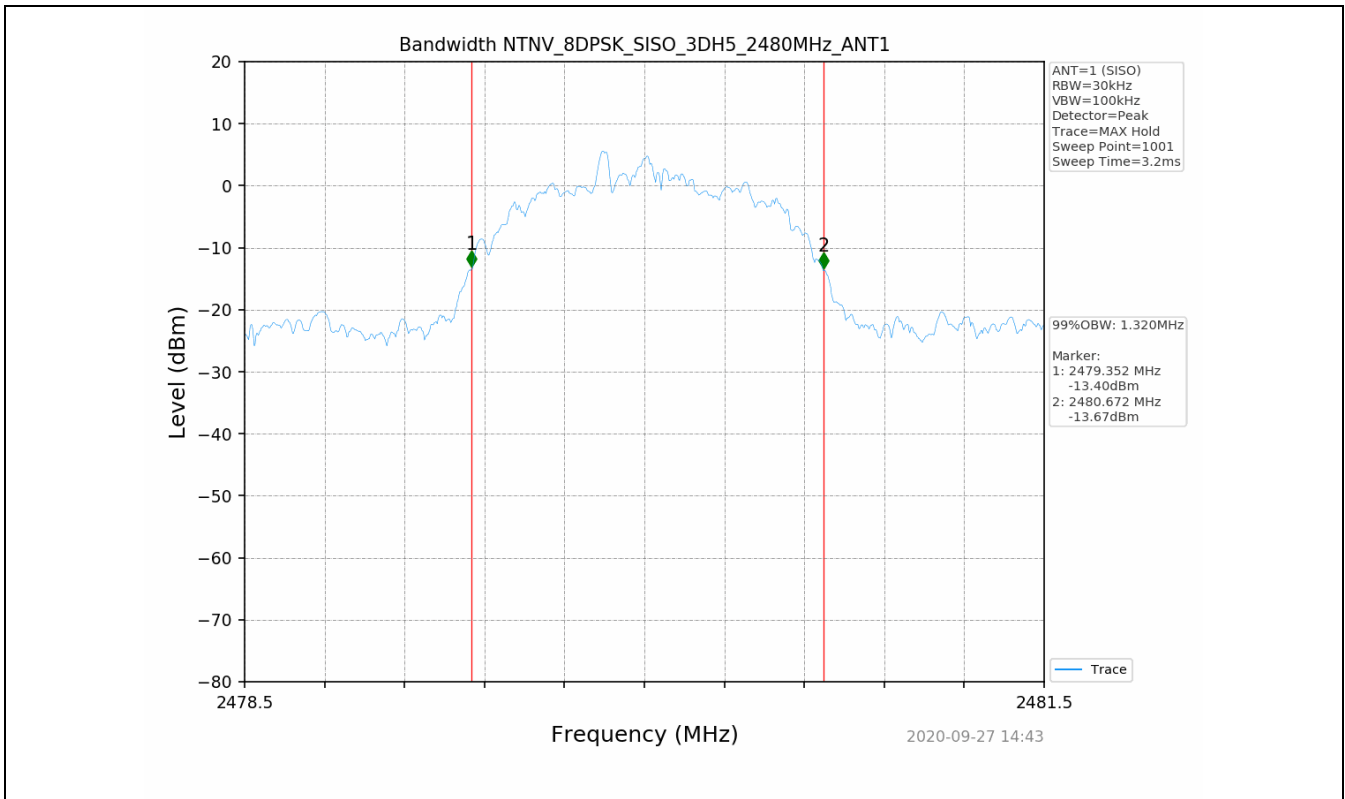
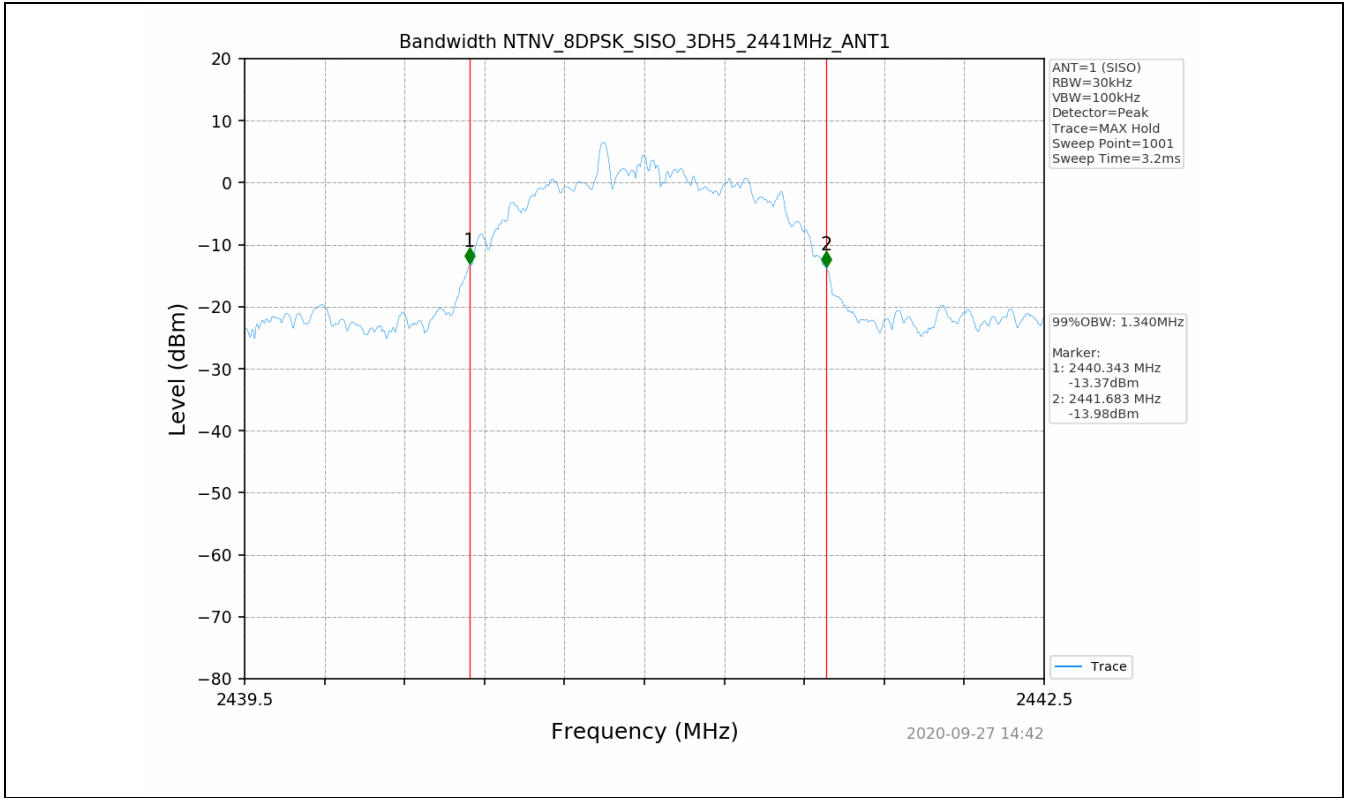










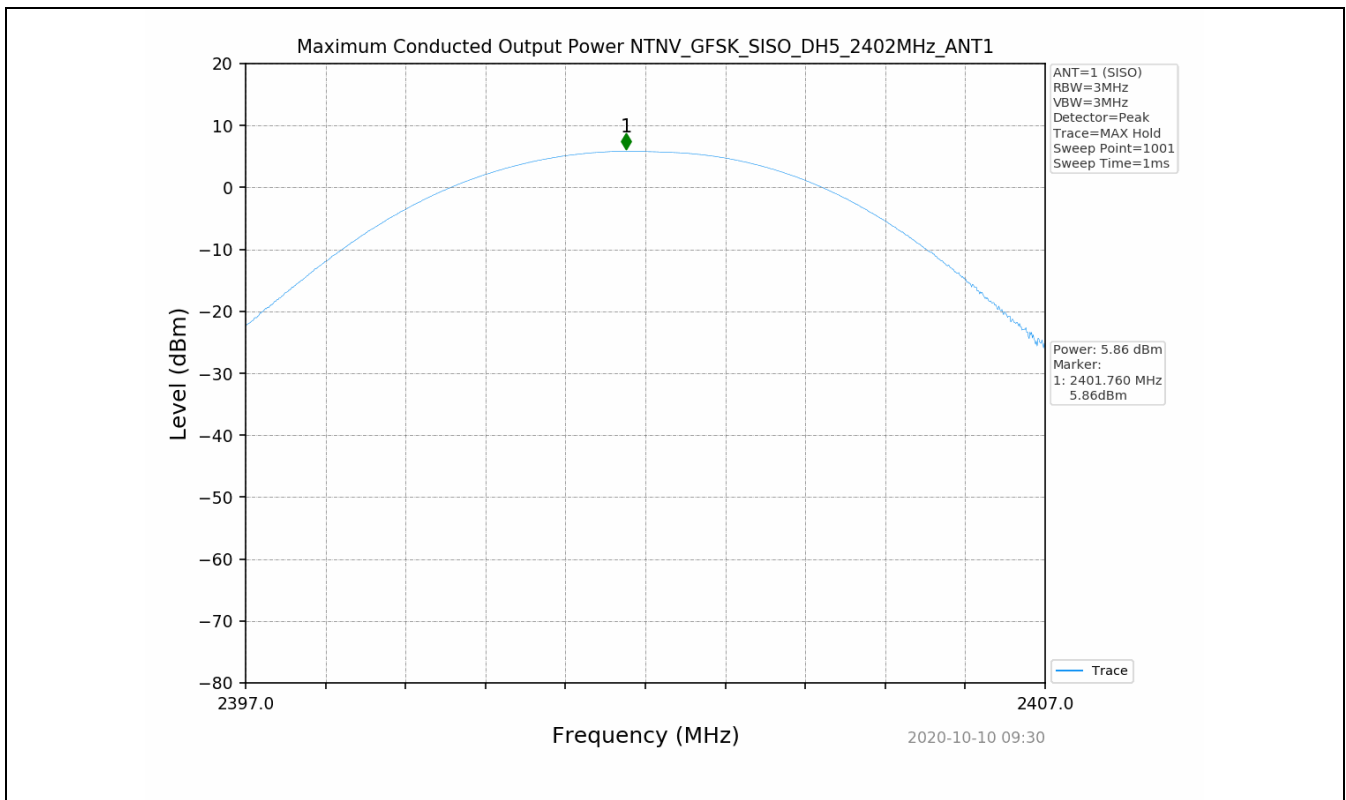


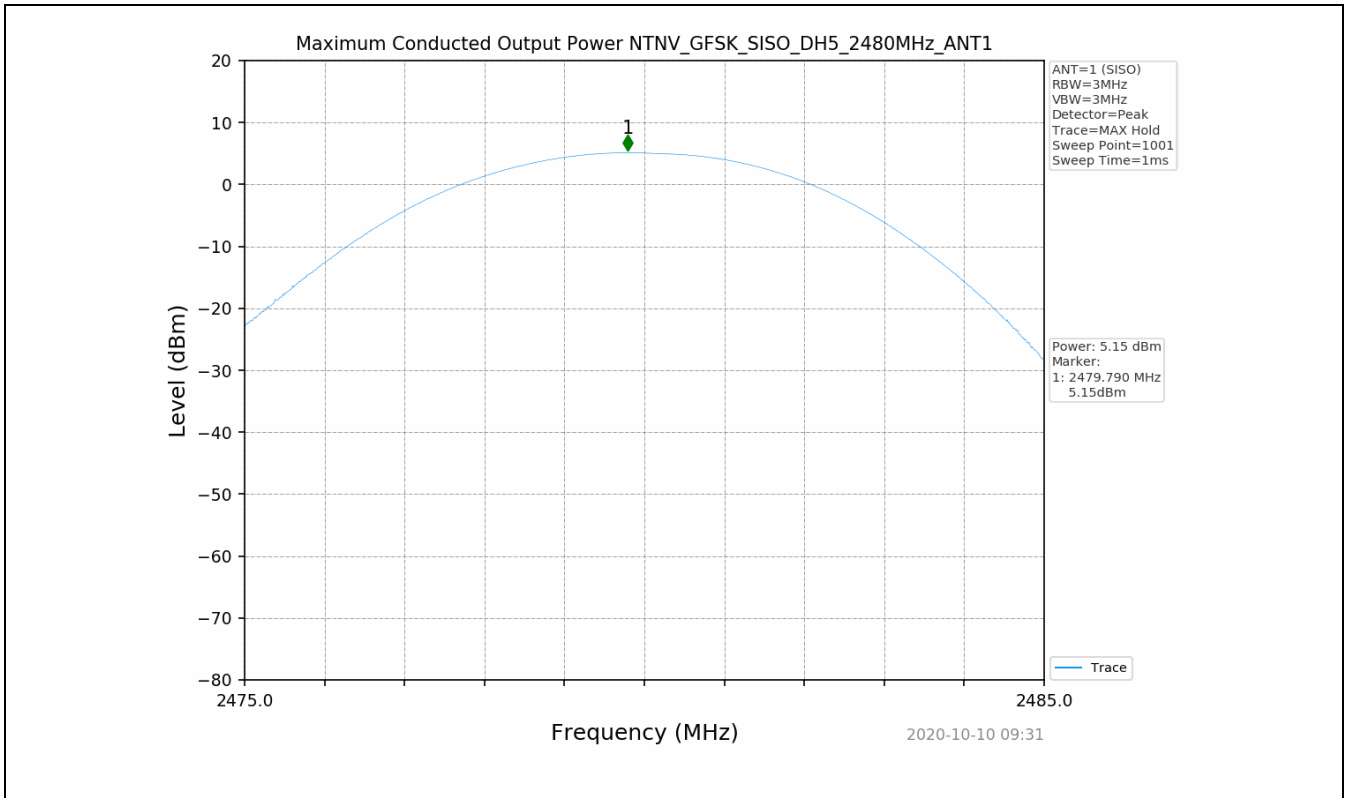
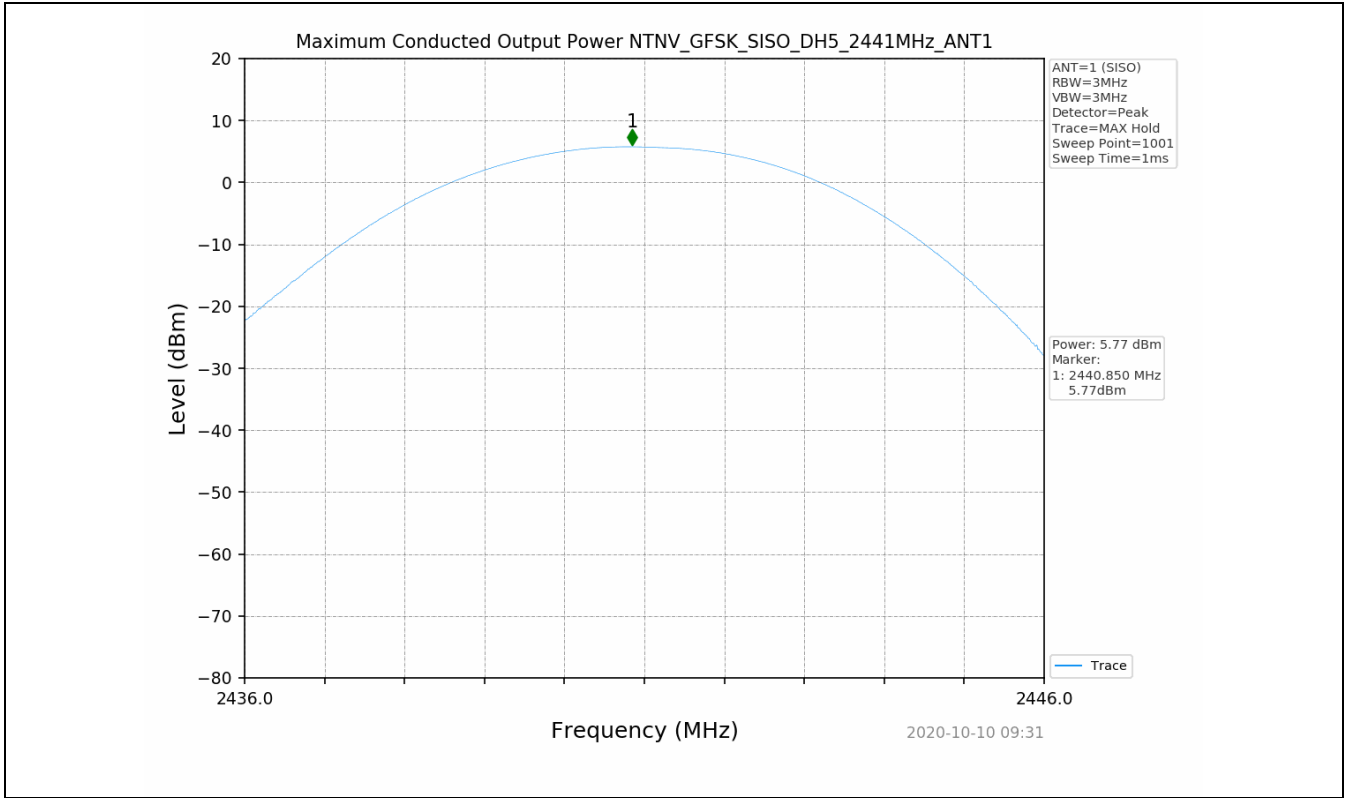
## 2. Maximum Conducted Output Power

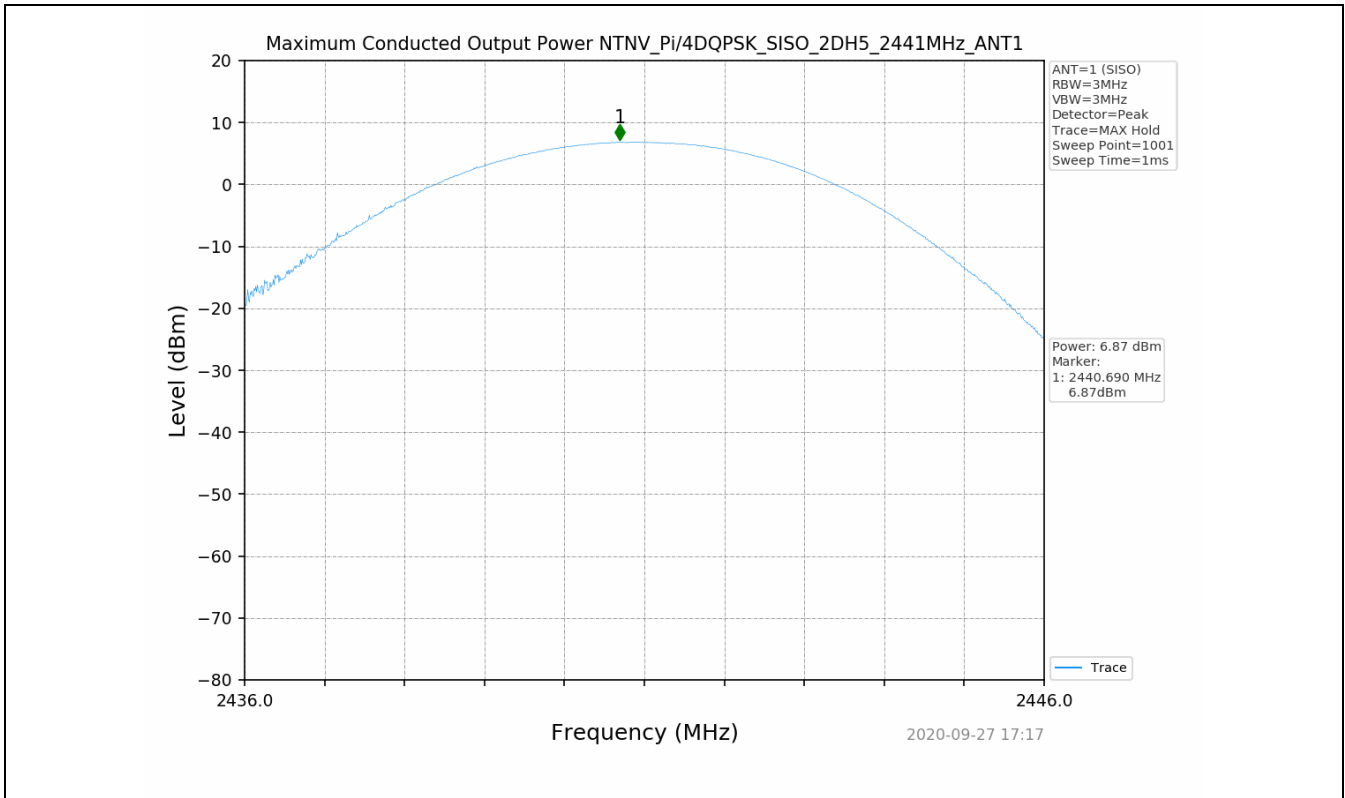
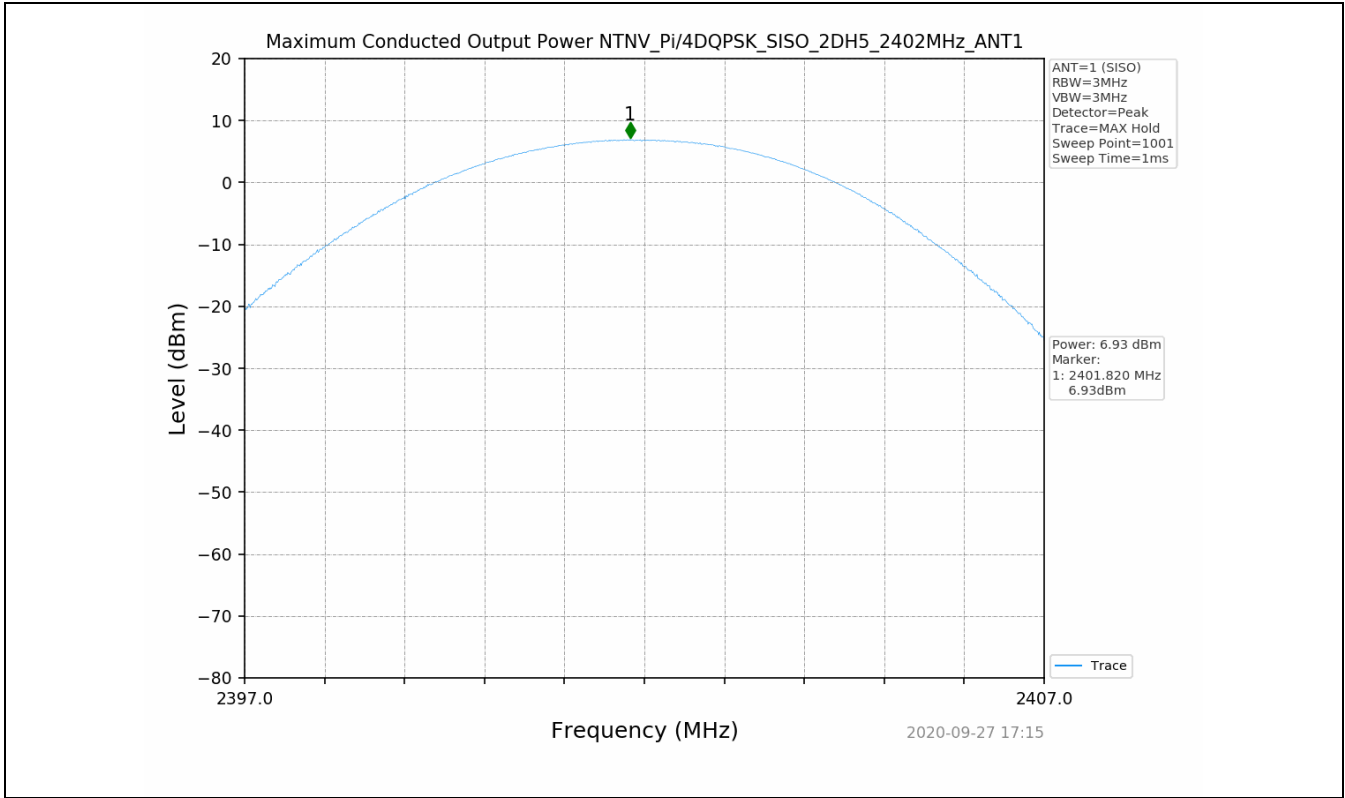
### 2.1 Test Result

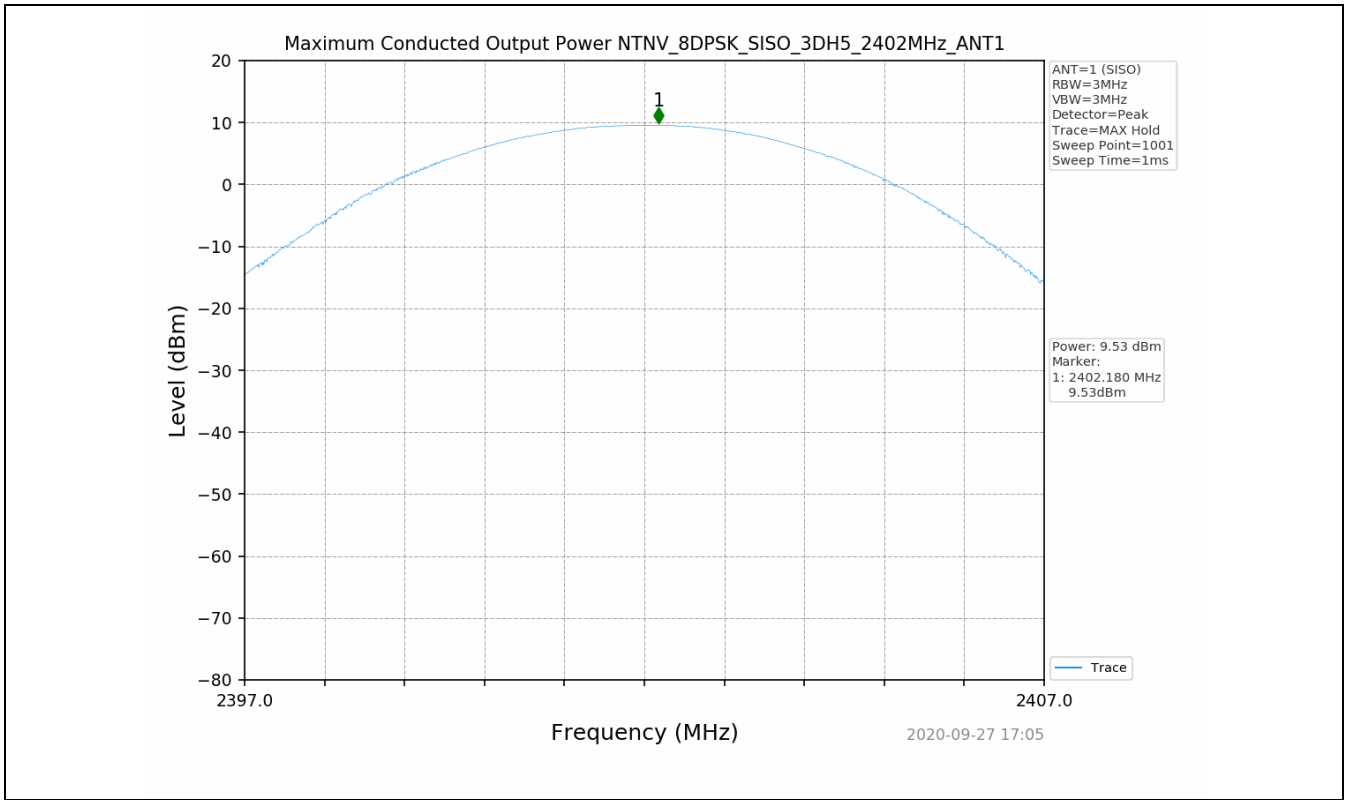
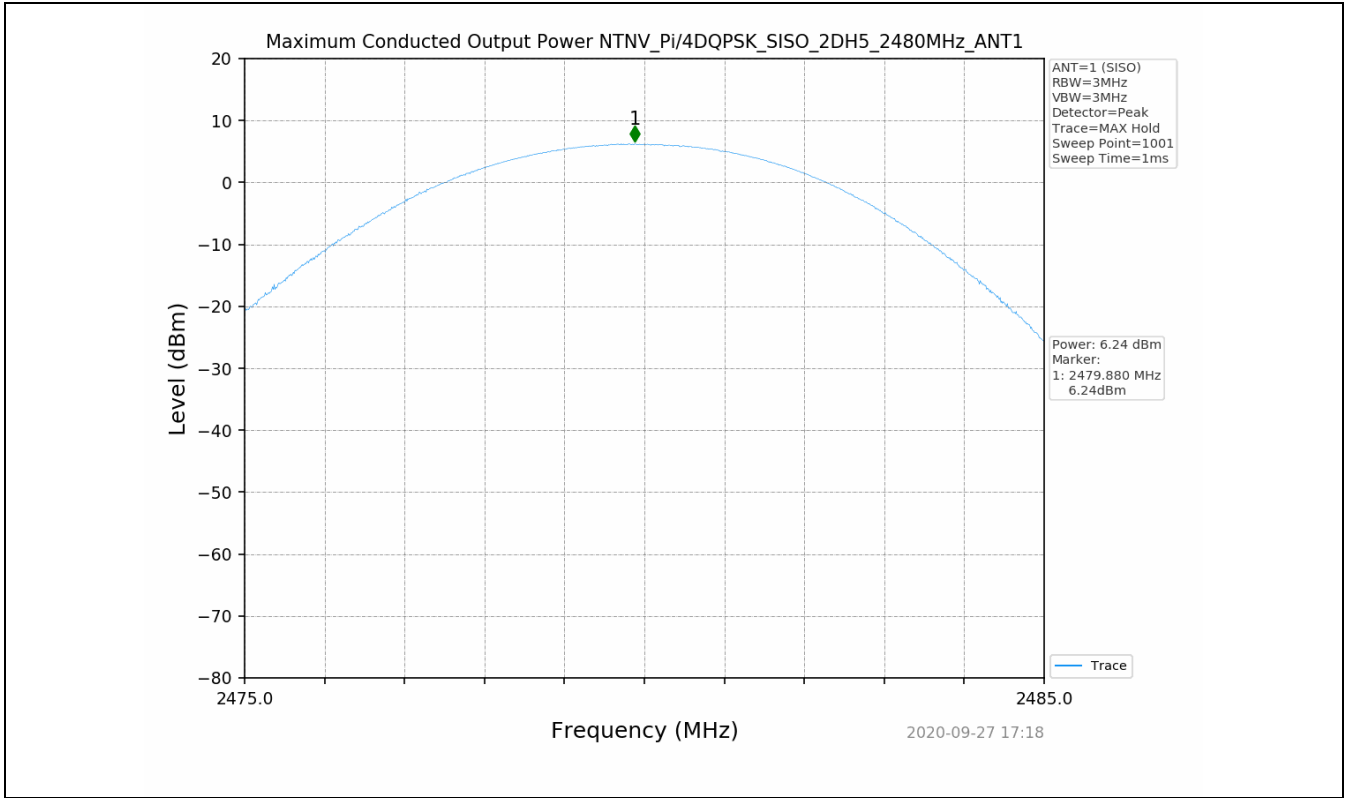
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	5.86	30	PASS
	2441	SISO	5.77	30	PASS
	2480	SISO	5.15	30	PASS
Pi/4QPSK	2402	SISO	6.93	20.97	PASS
	2441	SISO	6.87	20.97	PASS
	2480	SISO	6.24	20.97	PASS
8DPSK	2402	SISO	9.53	20.97	PASS
	2441	SISO	8.83	20.97	PASS
	2480	SISO	8.65	20.97	PASS

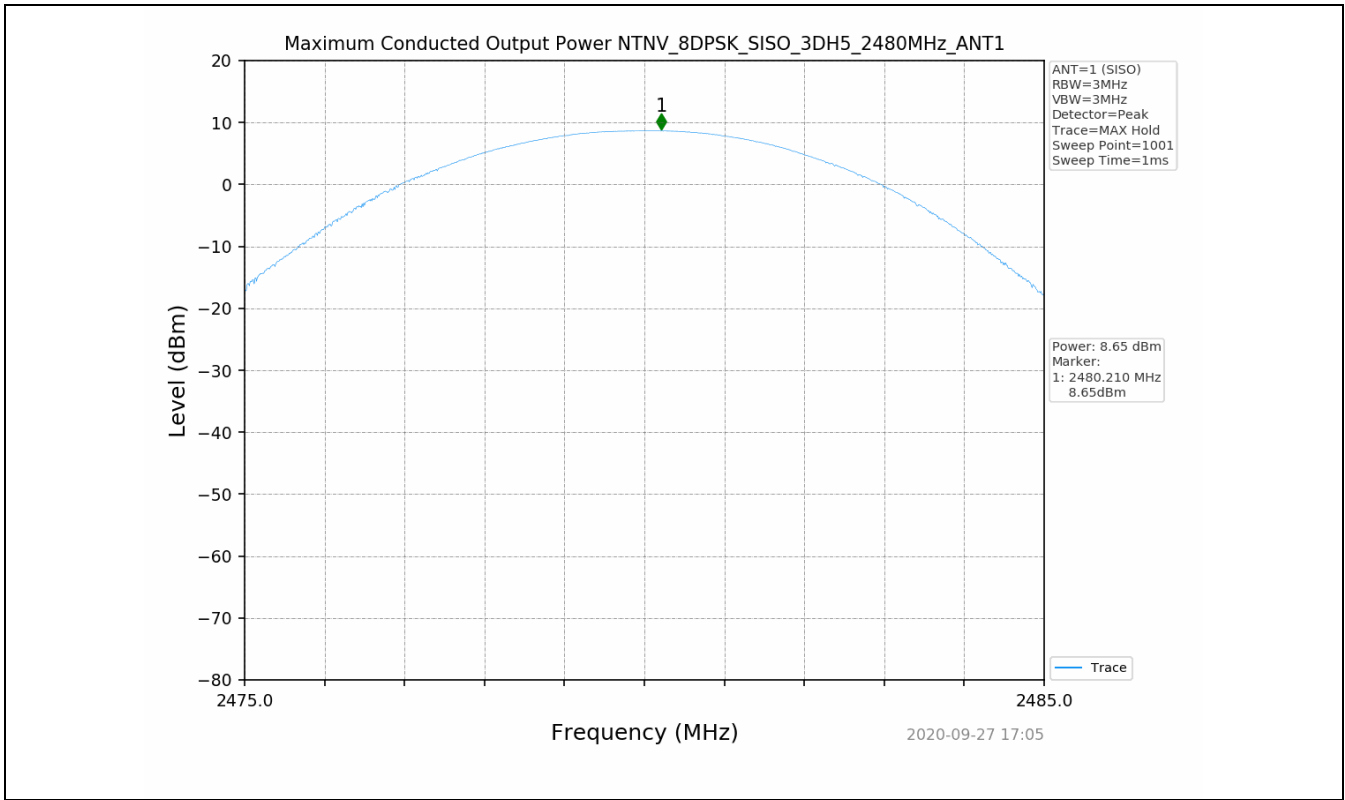
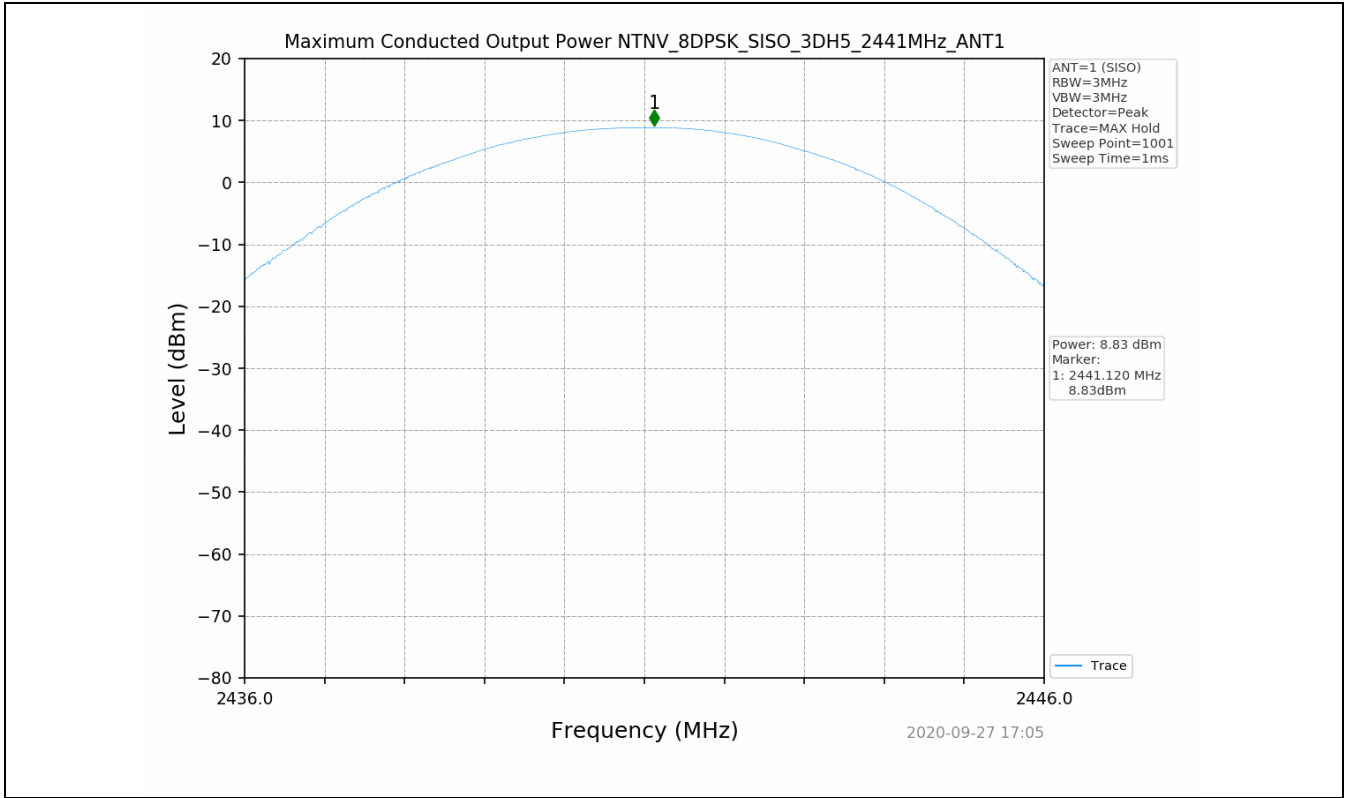
### 2.2 Test Graph









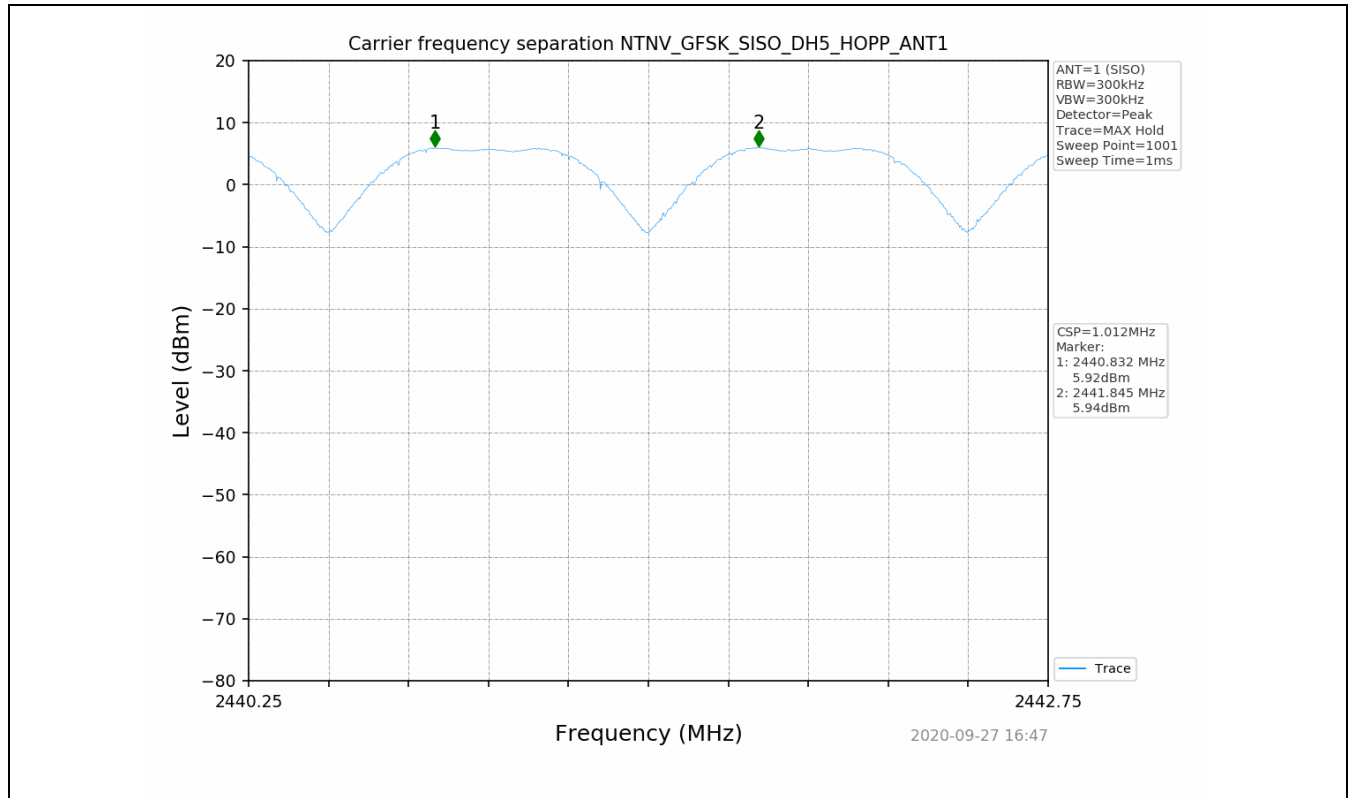


### 3. Carrier frequency separation

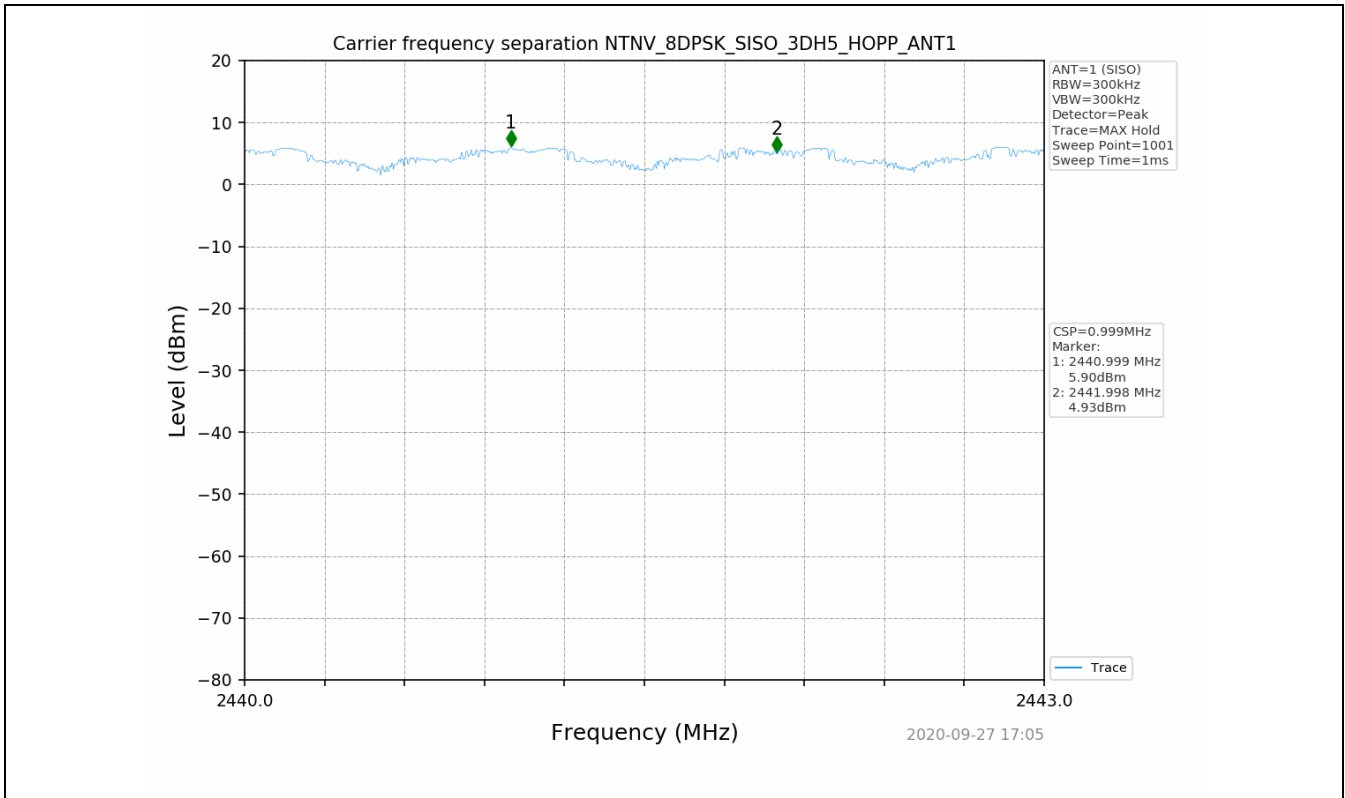
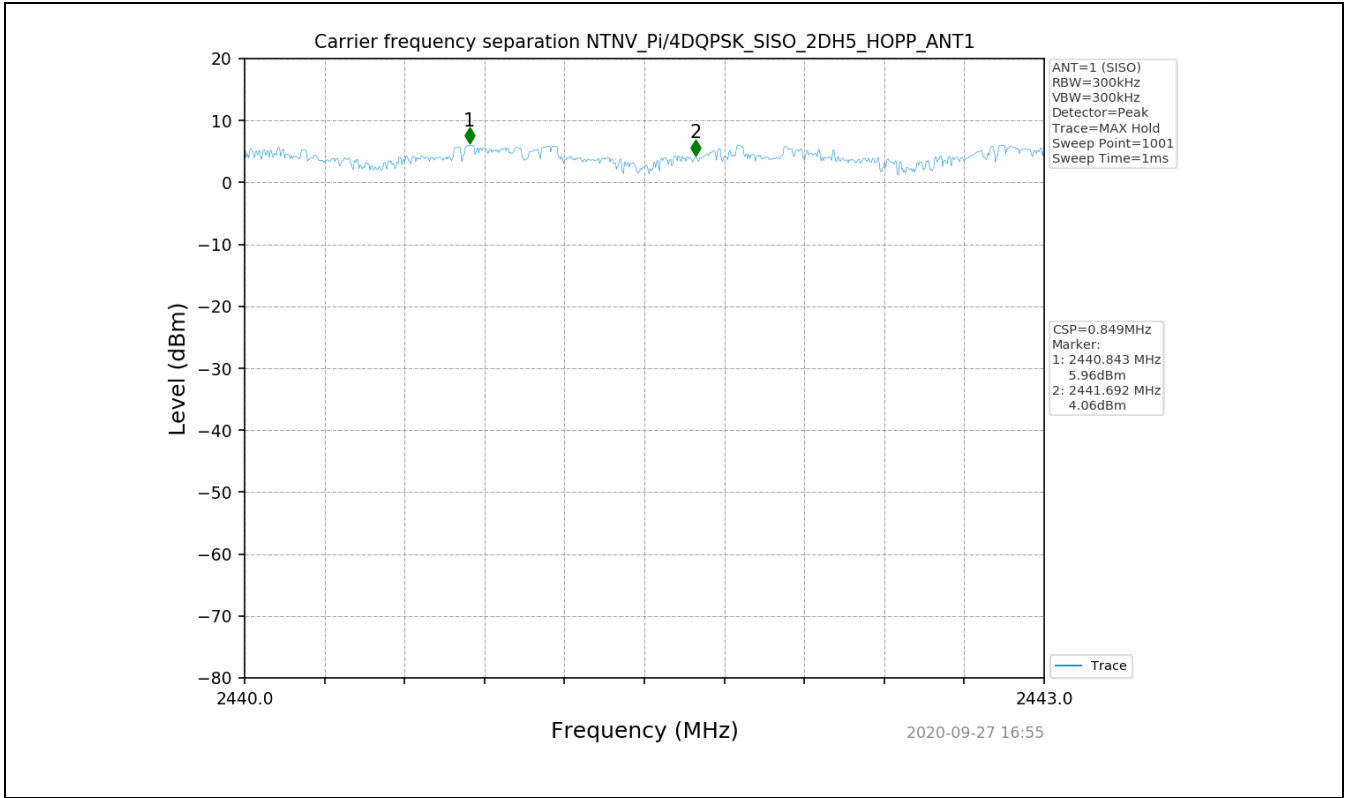
#### 3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.012	0.960	$\geq 0.960$	PASS
Pi/4DQPSK	SISO	1	0.849	1.314	$\geq 0.876$	PASS
8DPSK	SISO	1	0.999	1.352	$\geq 0.901$	PASS

#### 3.2 Test Graph





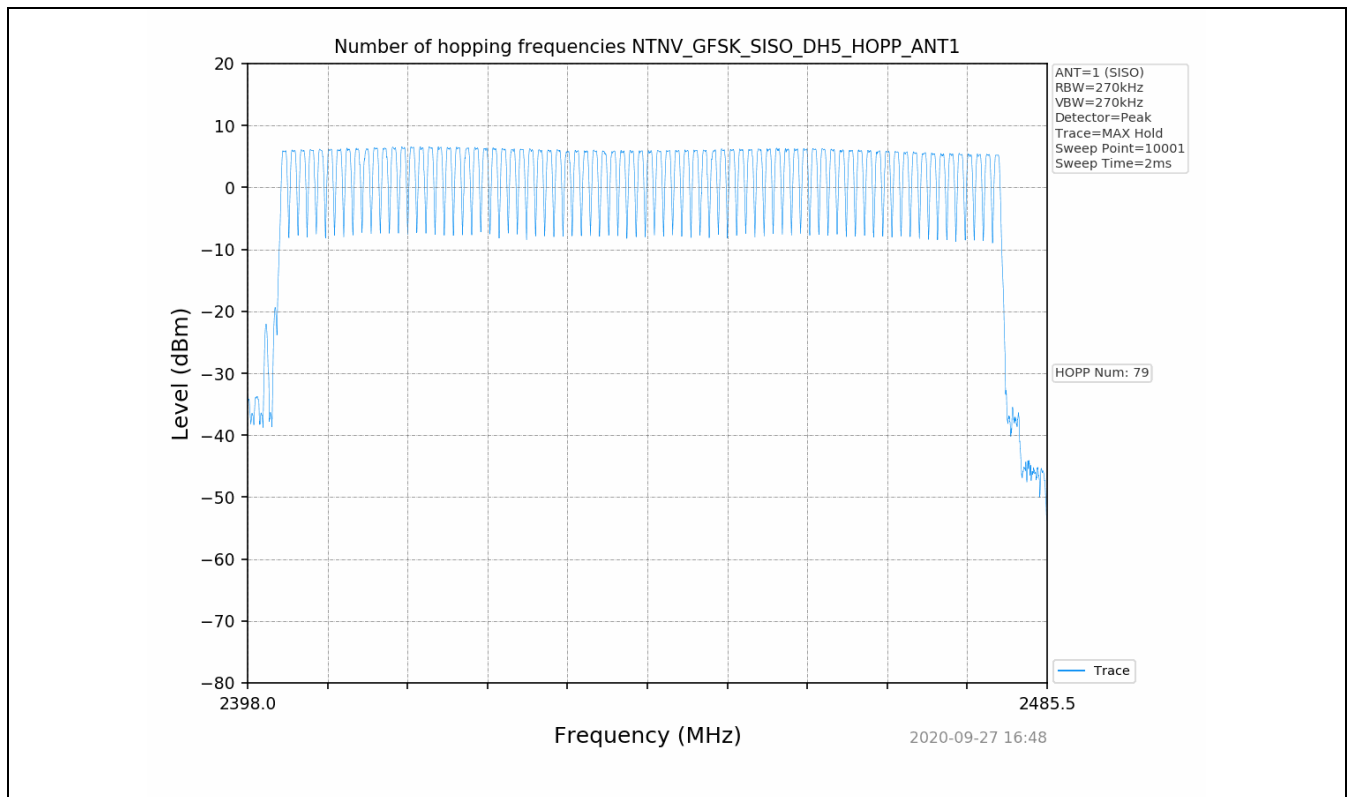


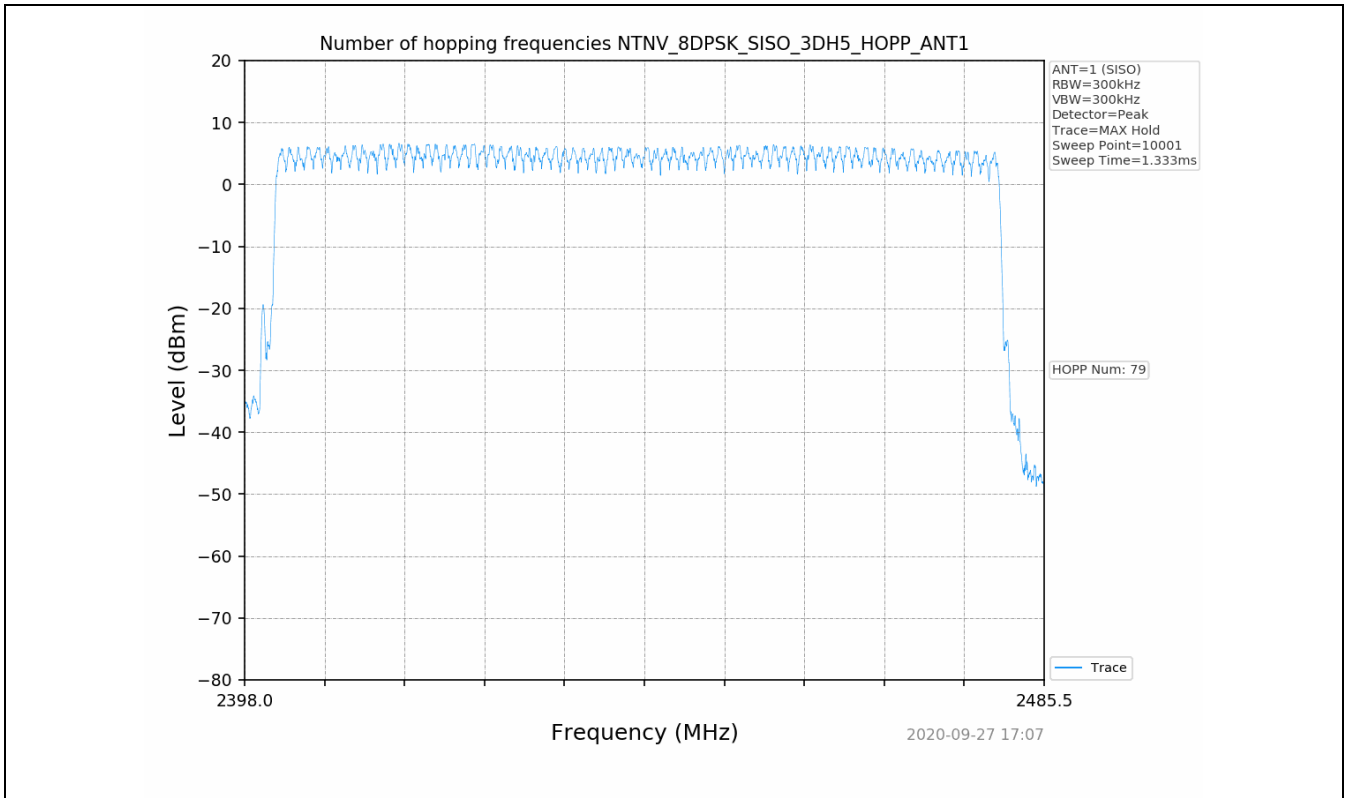
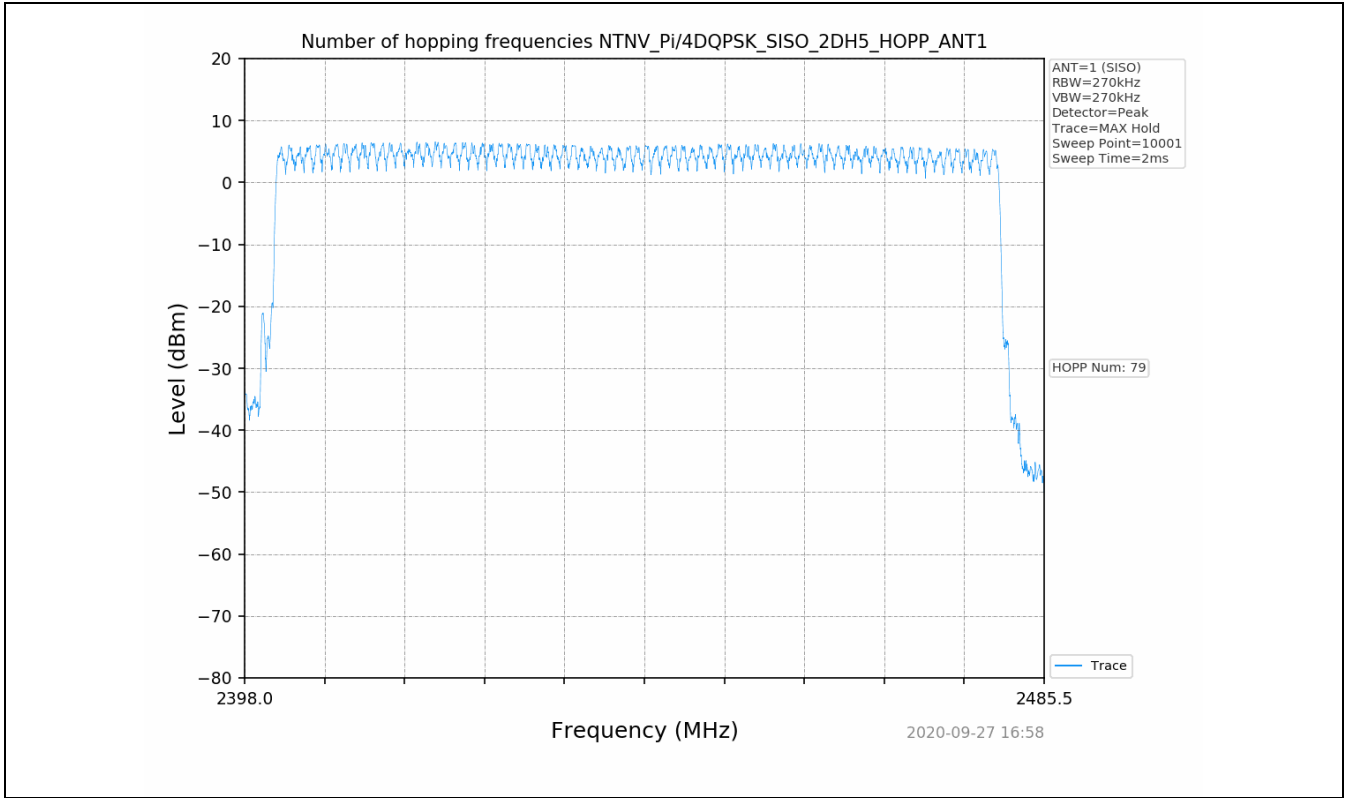
## 4. Number of hopping frequencies

### 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



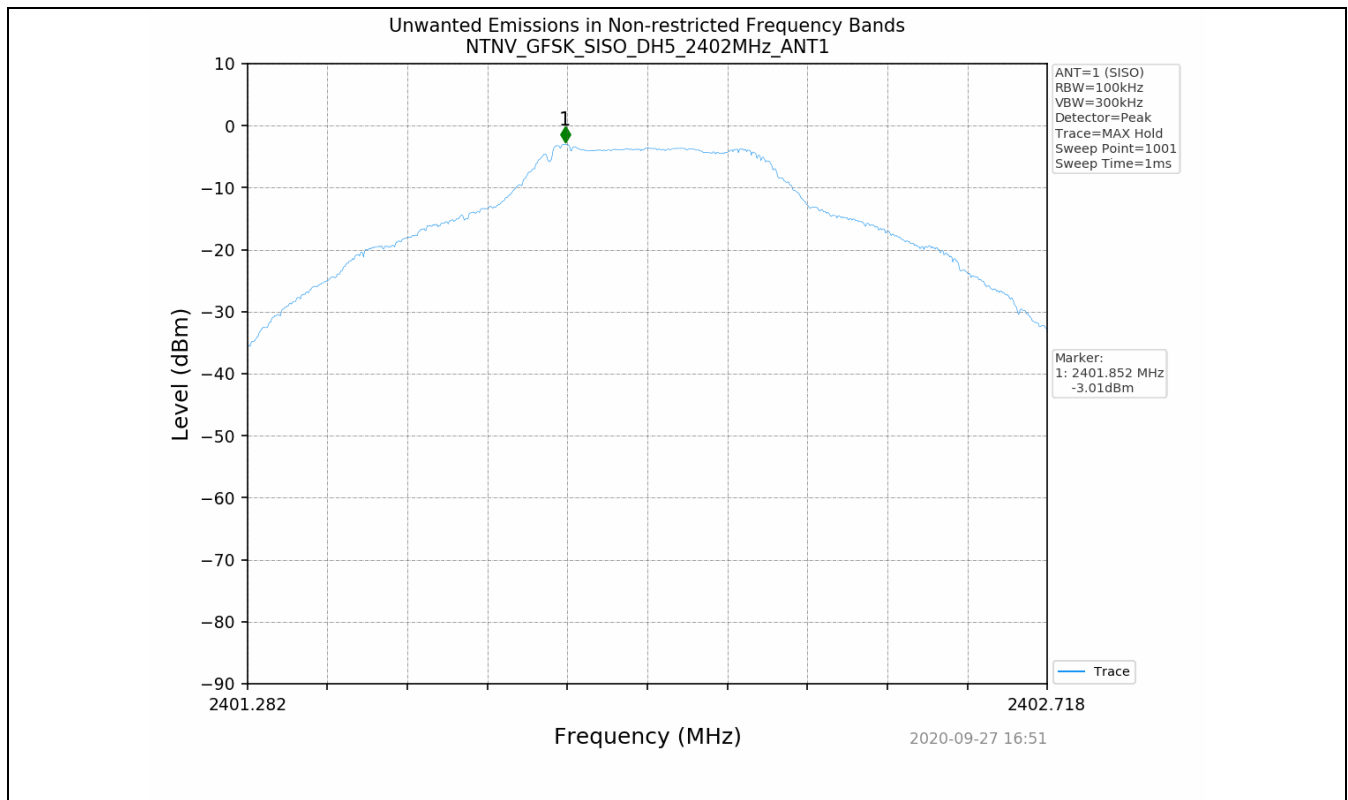


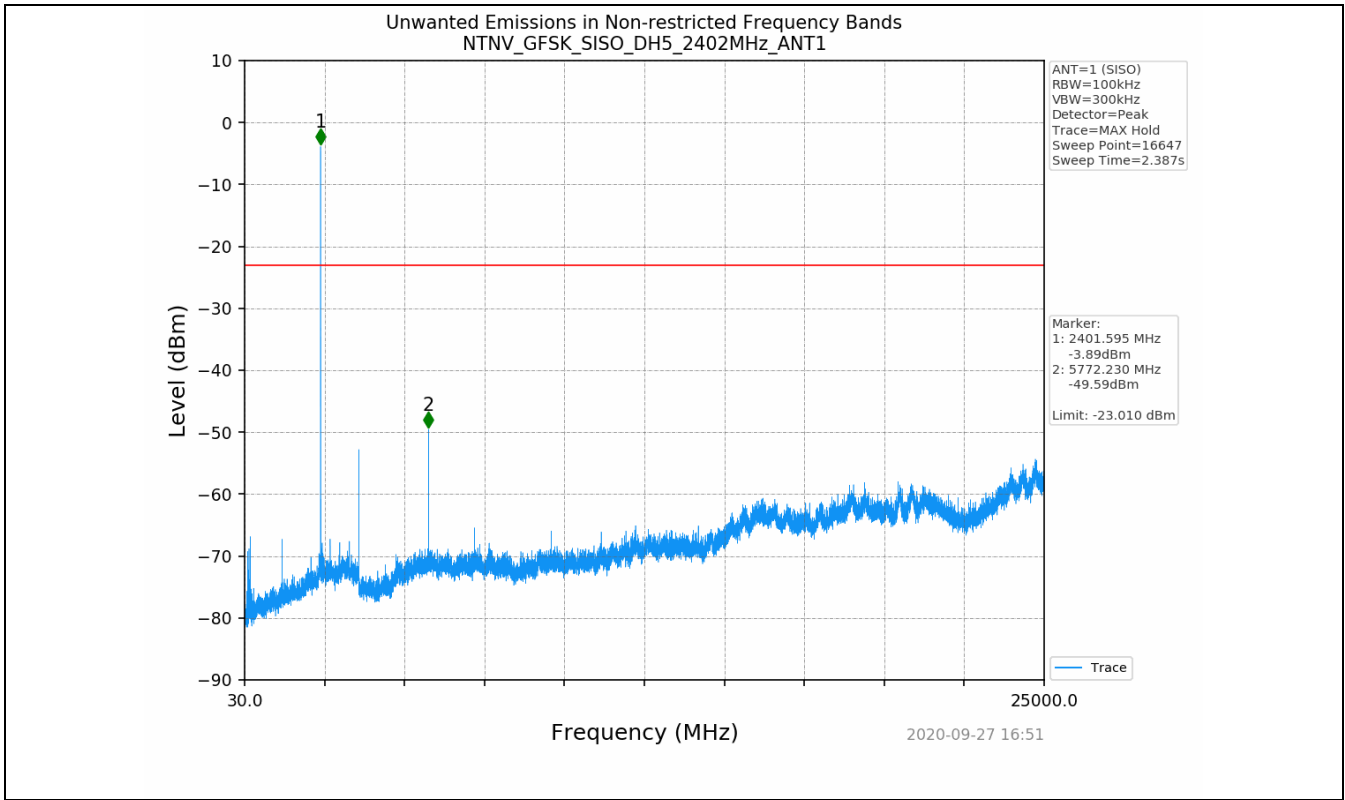
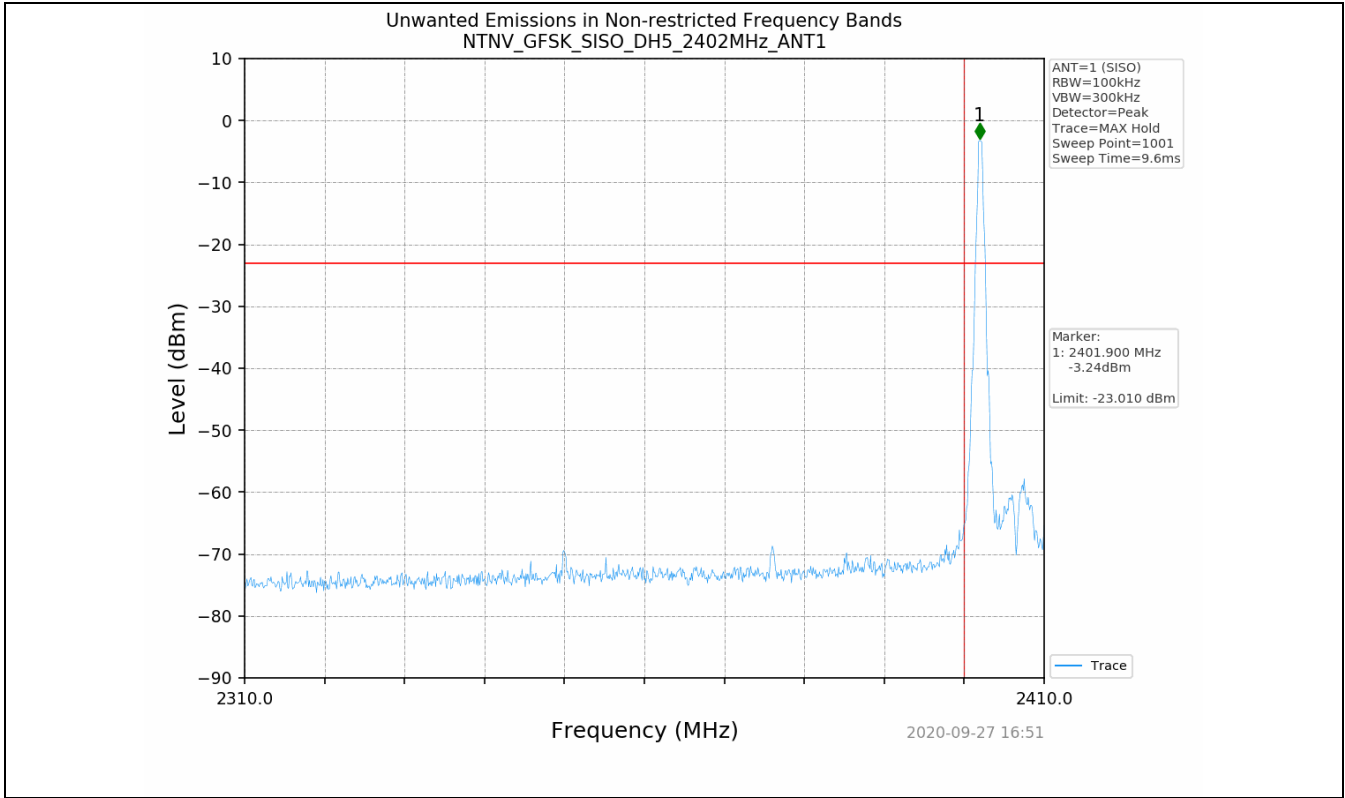
## 5. Unwanted Emissions in Non-restricted Frequency Bands

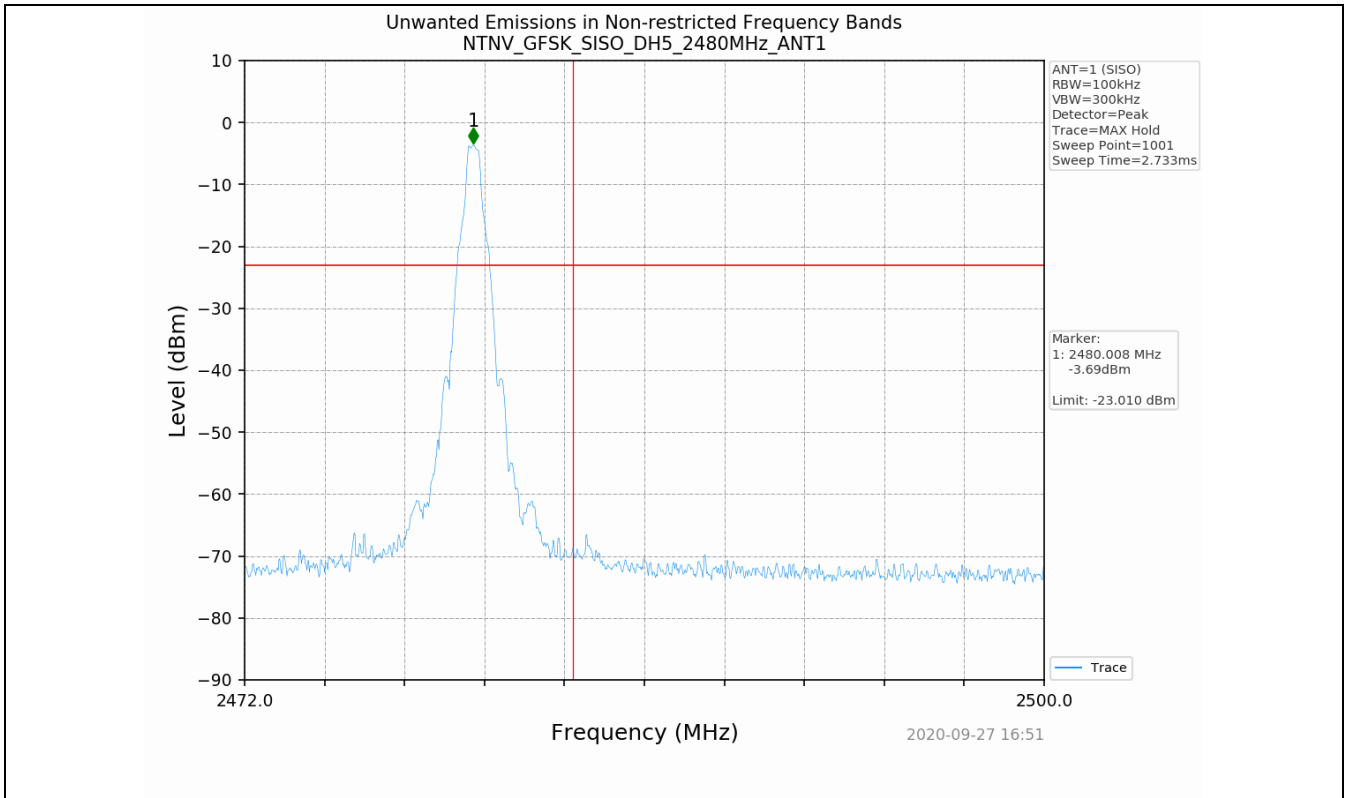
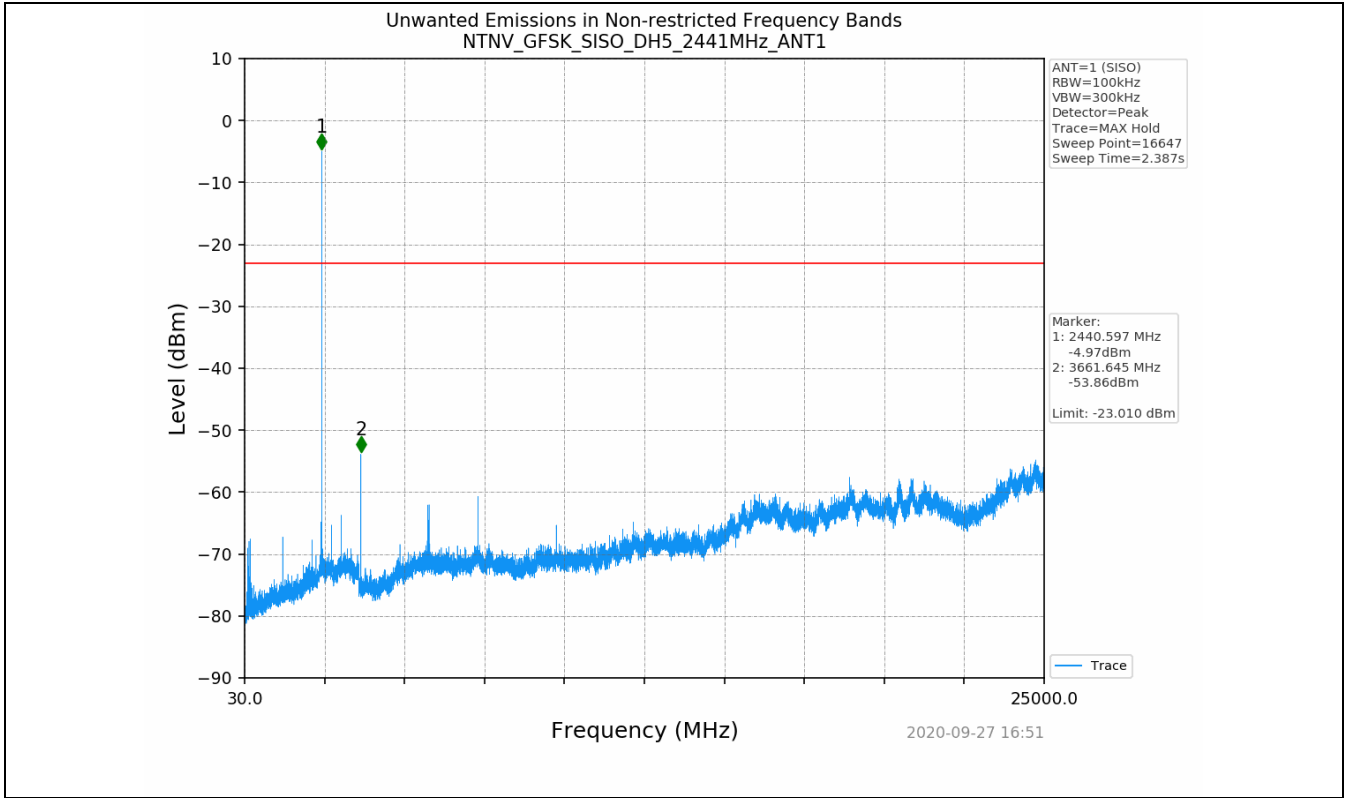
### 5.1 Test Result

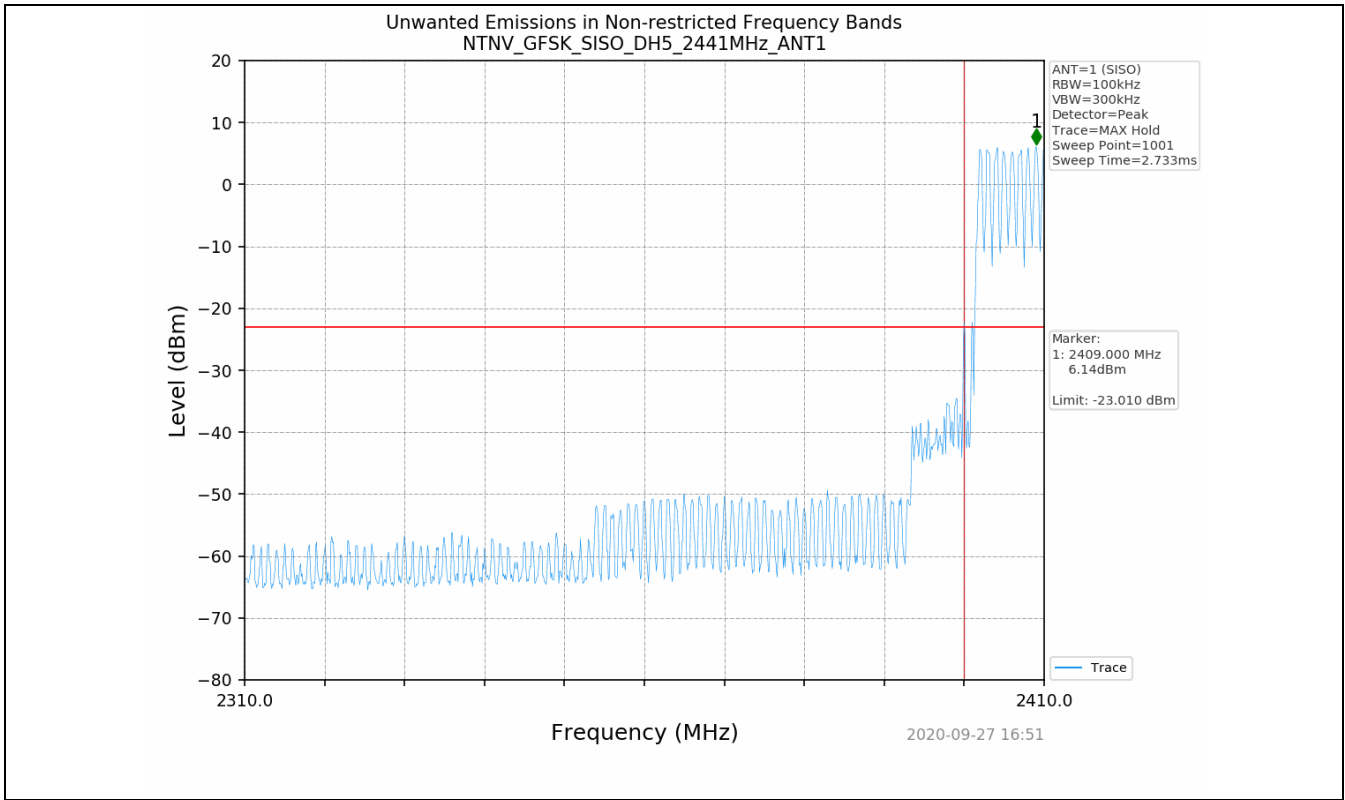
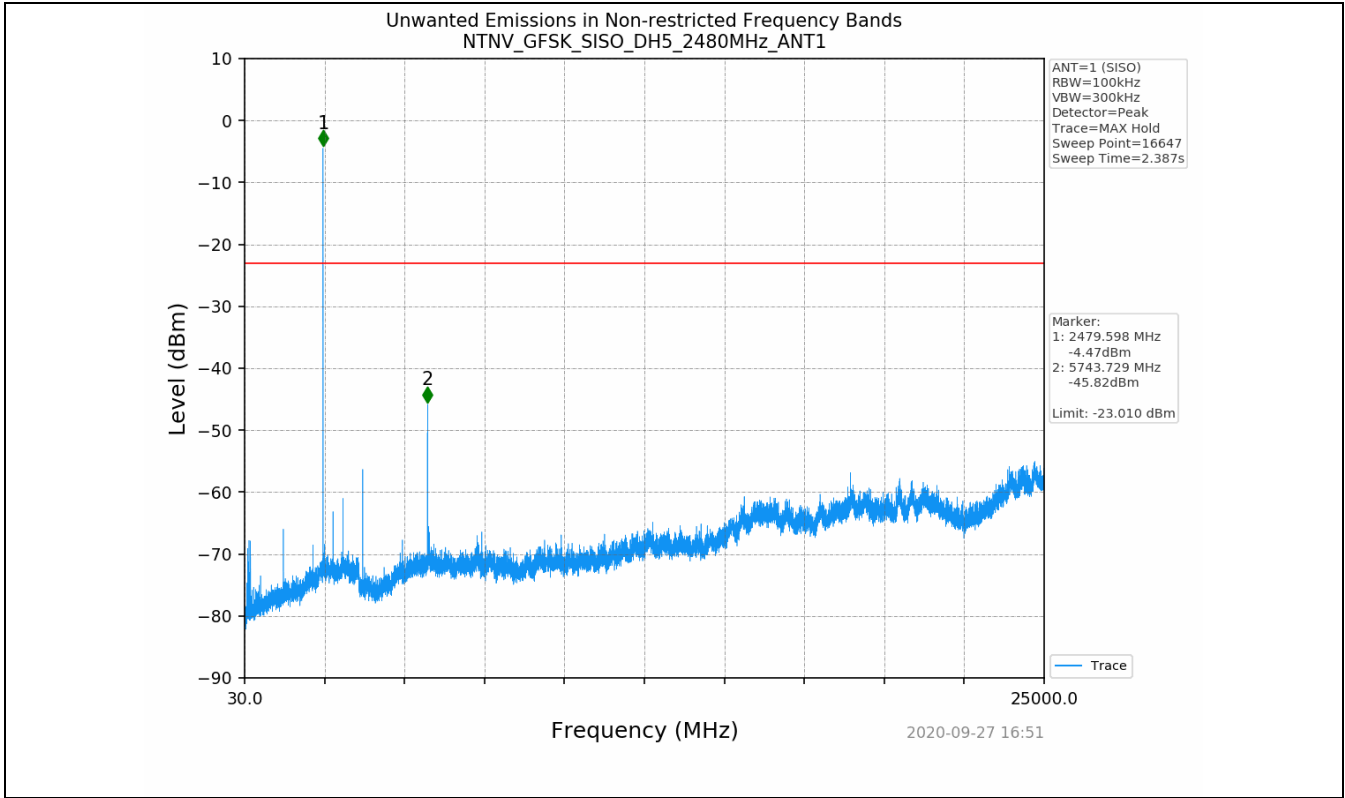
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-23.01	PASS
	2441	SISO	1	Refer to test graph	-23.01	PASS
	2480	SISO	1	Refer to test graph	-23.01	PASS
	Hopping	SISO	1	Refer to test graph	-23.01	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-14.09	PASS
	2441	SISO	1	Refer to test graph	-14.09	PASS
	2480	SISO	1	Refer to test graph	-14.09	PASS
	Hopping	SISO	1	Refer to test graph	-14.09	PASS
8DPSK	2402	SISO	1	Refer to test graph	-11.31	PASS
	2441	SISO	1	Refer to test graph	-11.31	PASS
	2480	SISO	1	Refer to test graph	-11.31	PASS
	Hopping	SISO	1	Refer to test graph	-11.31	PASS

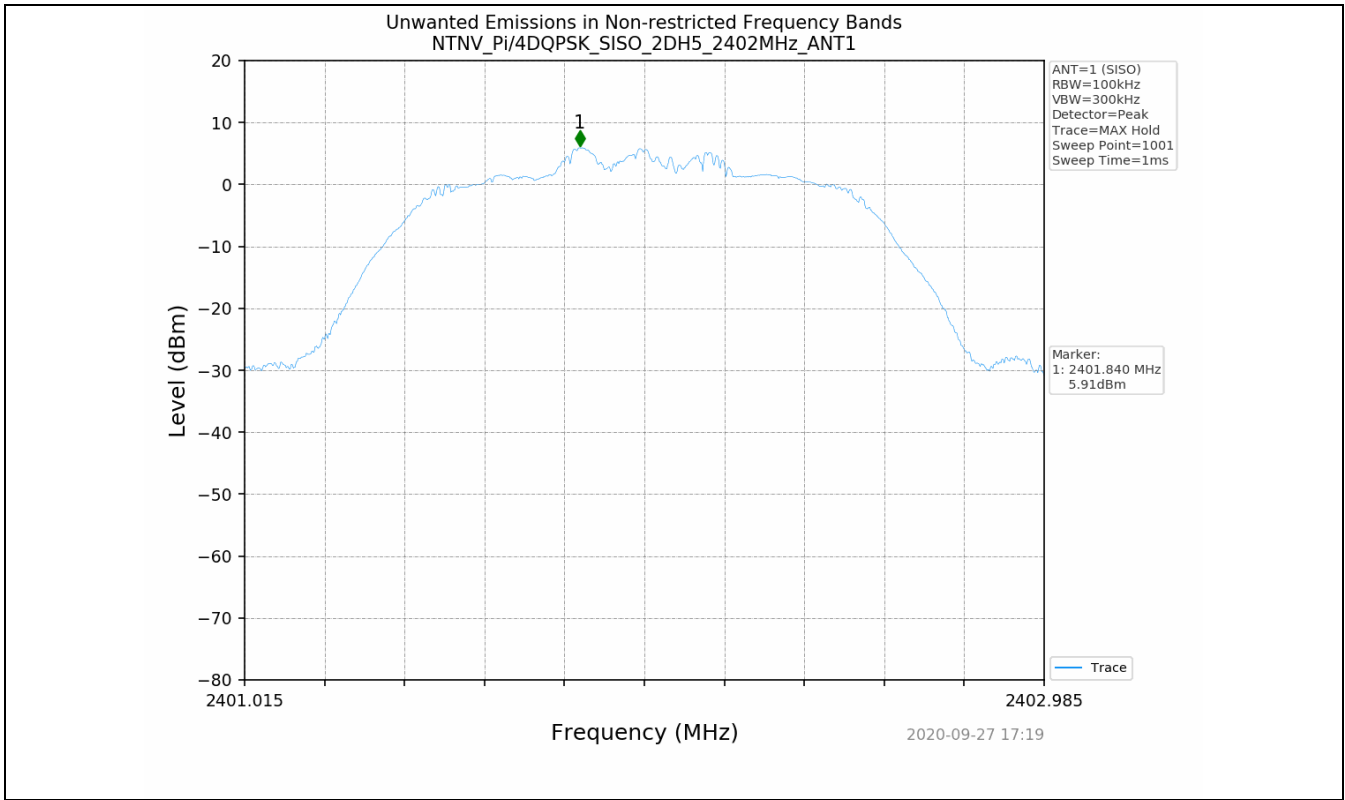
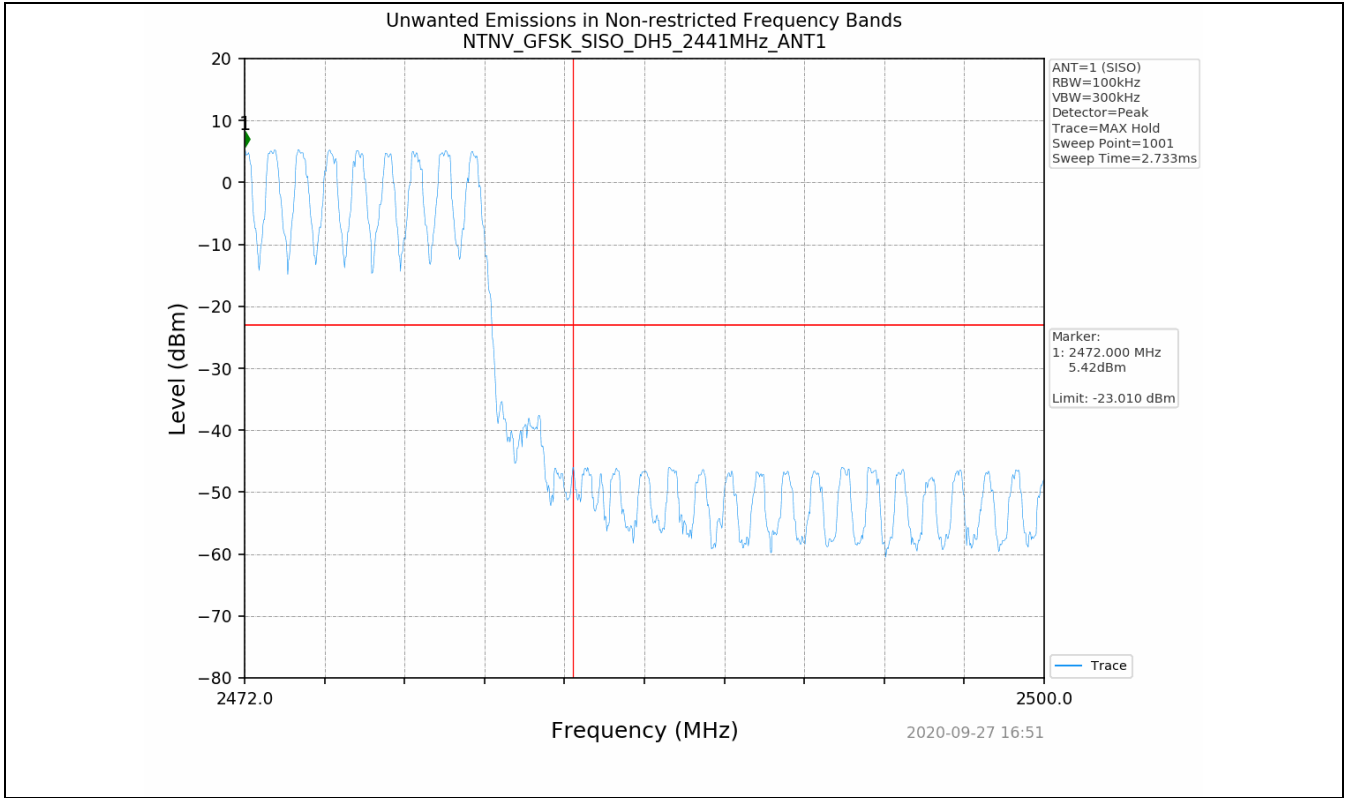
### 5.2 Test Graph



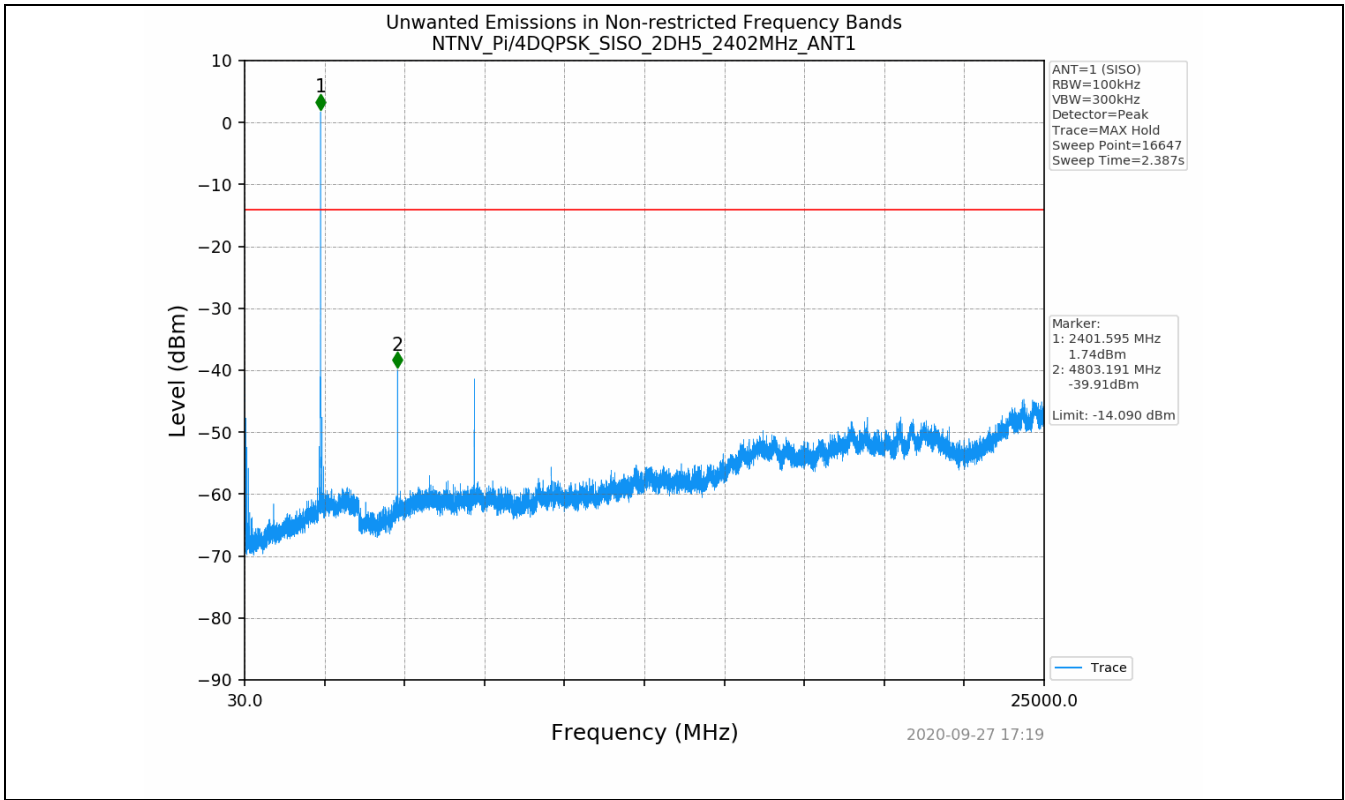
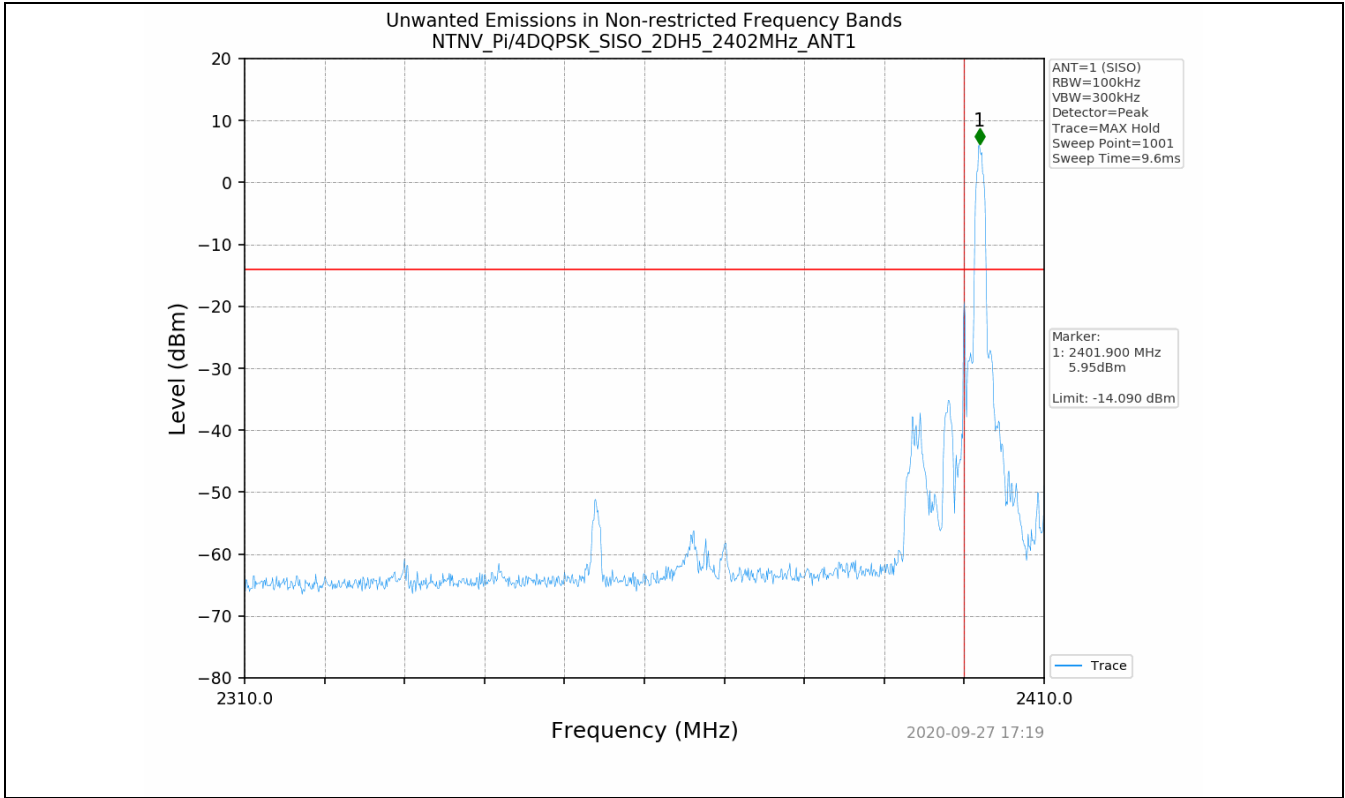


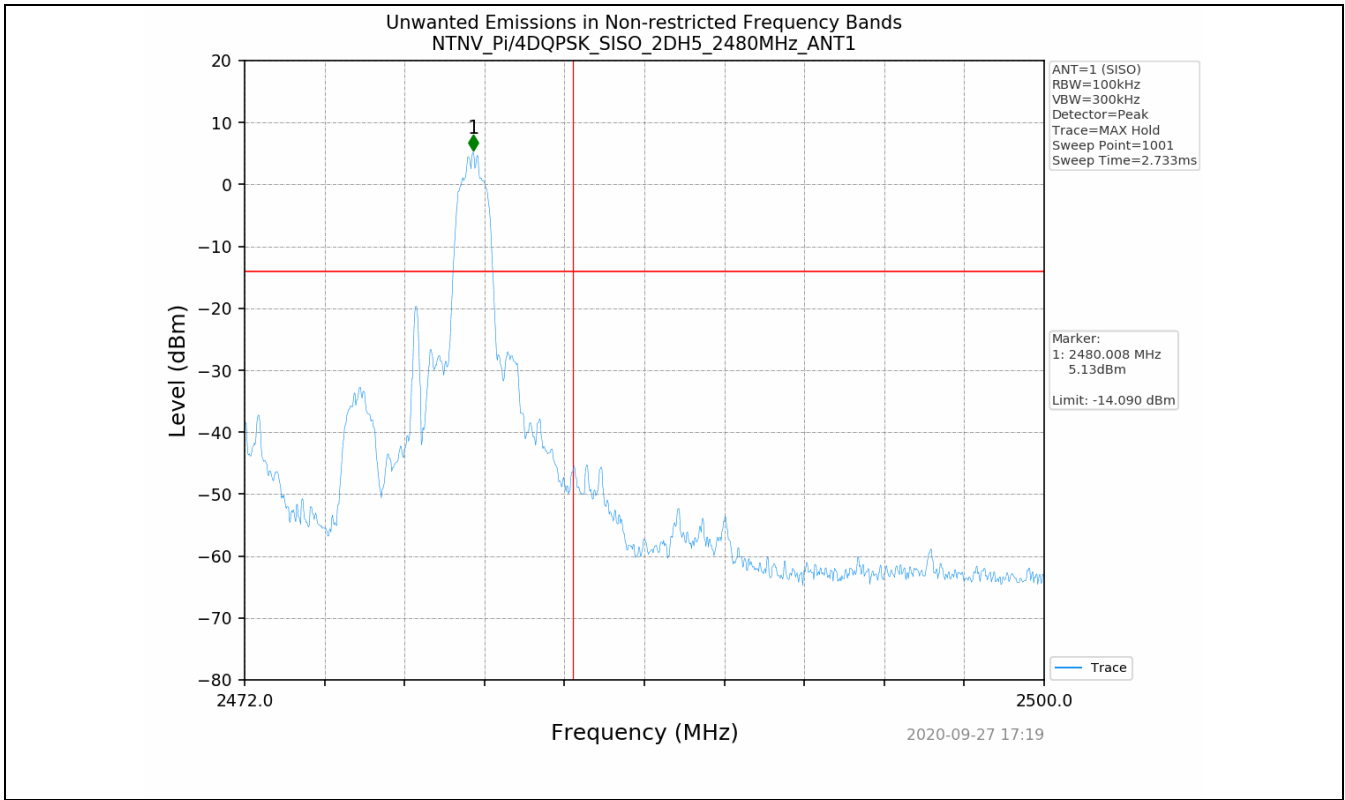
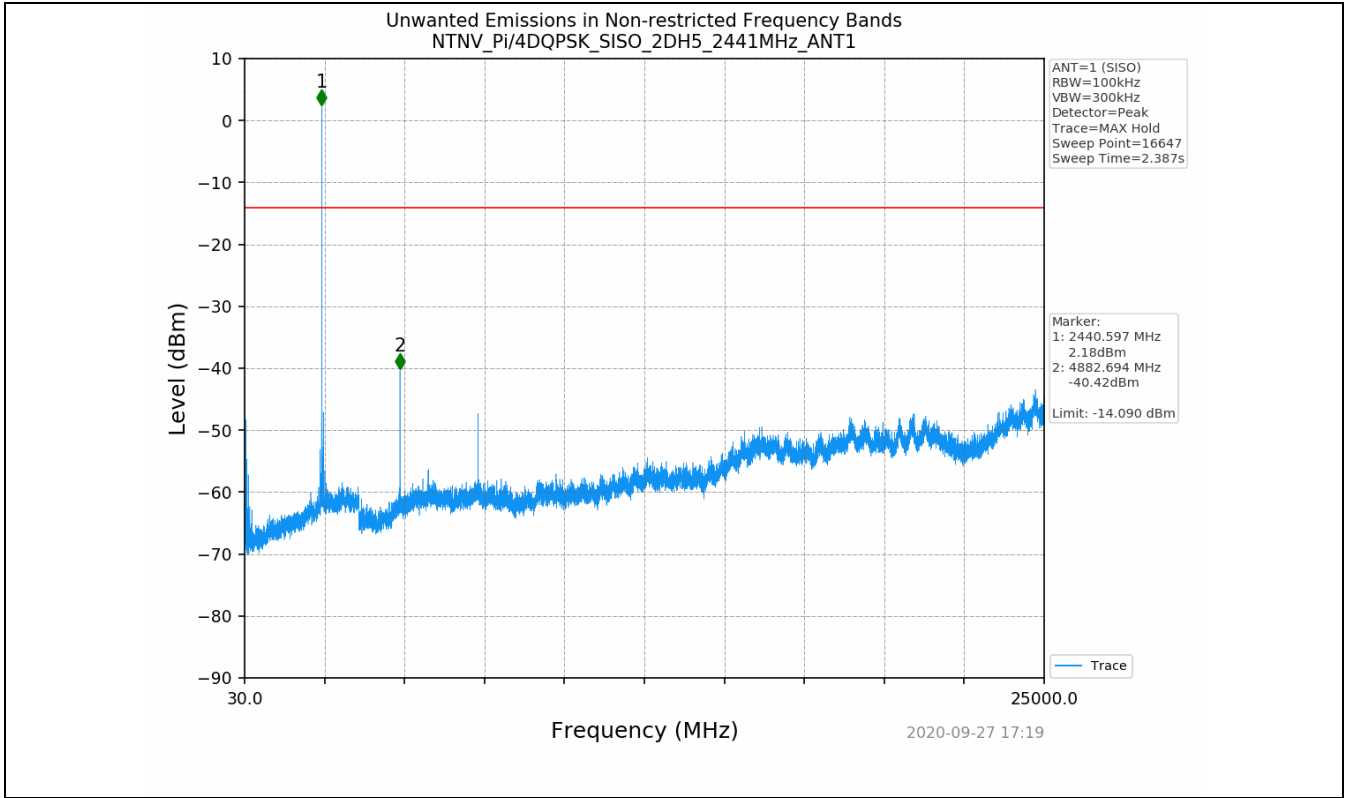


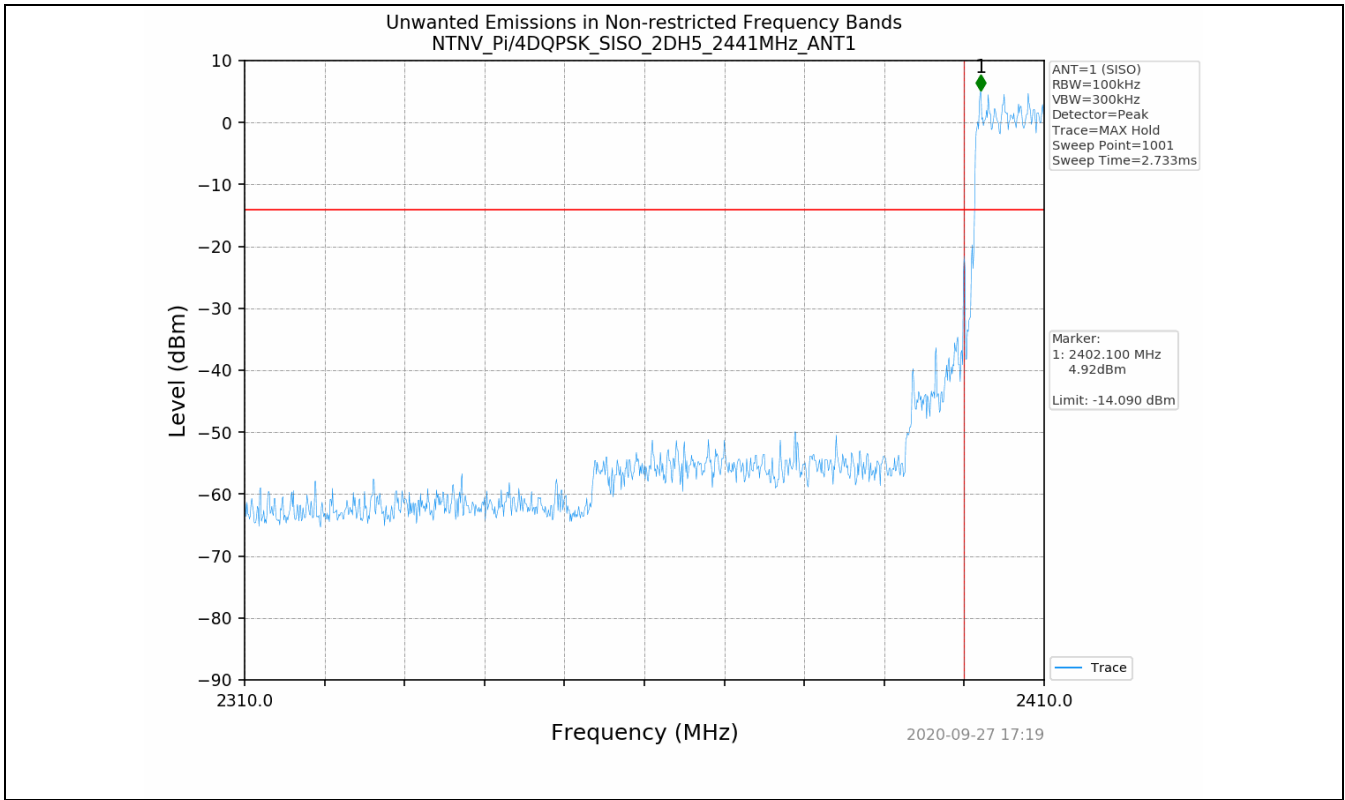
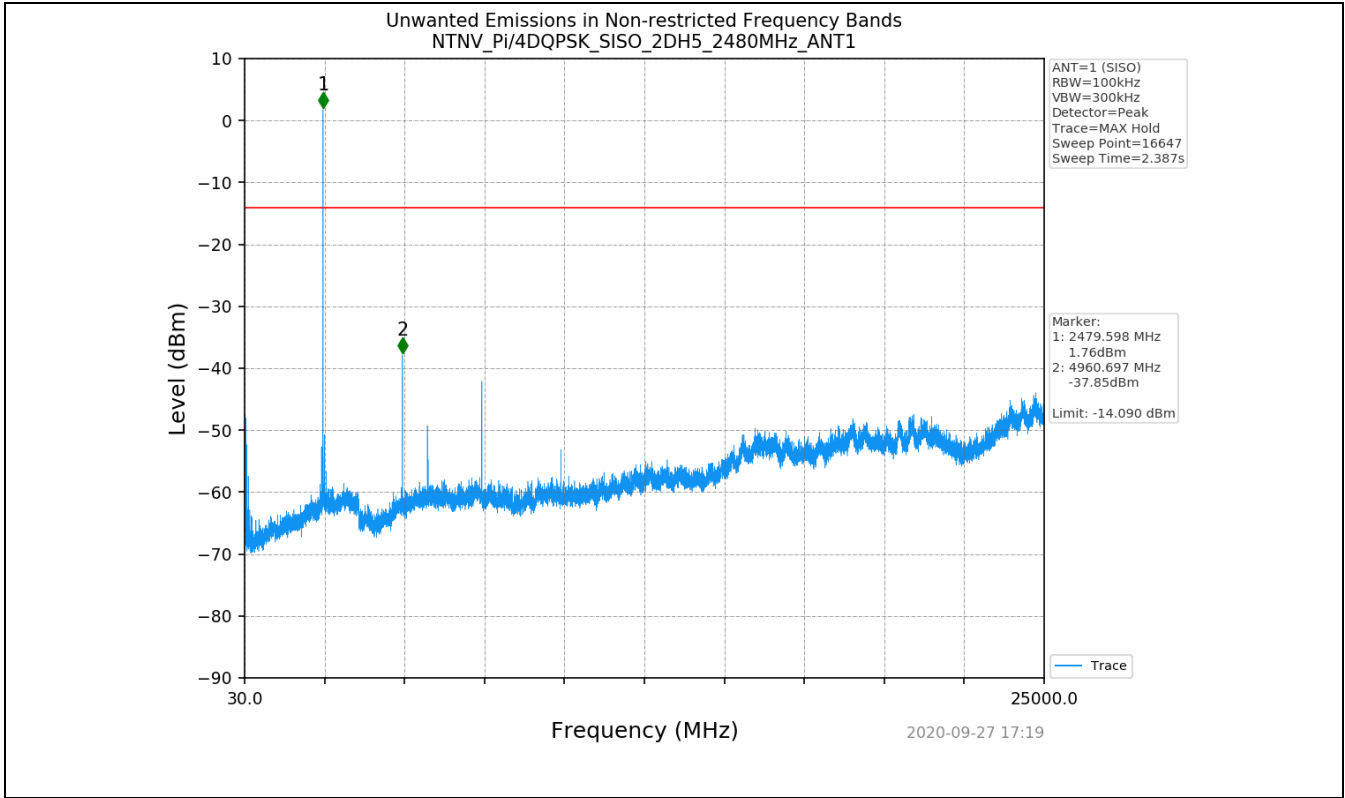


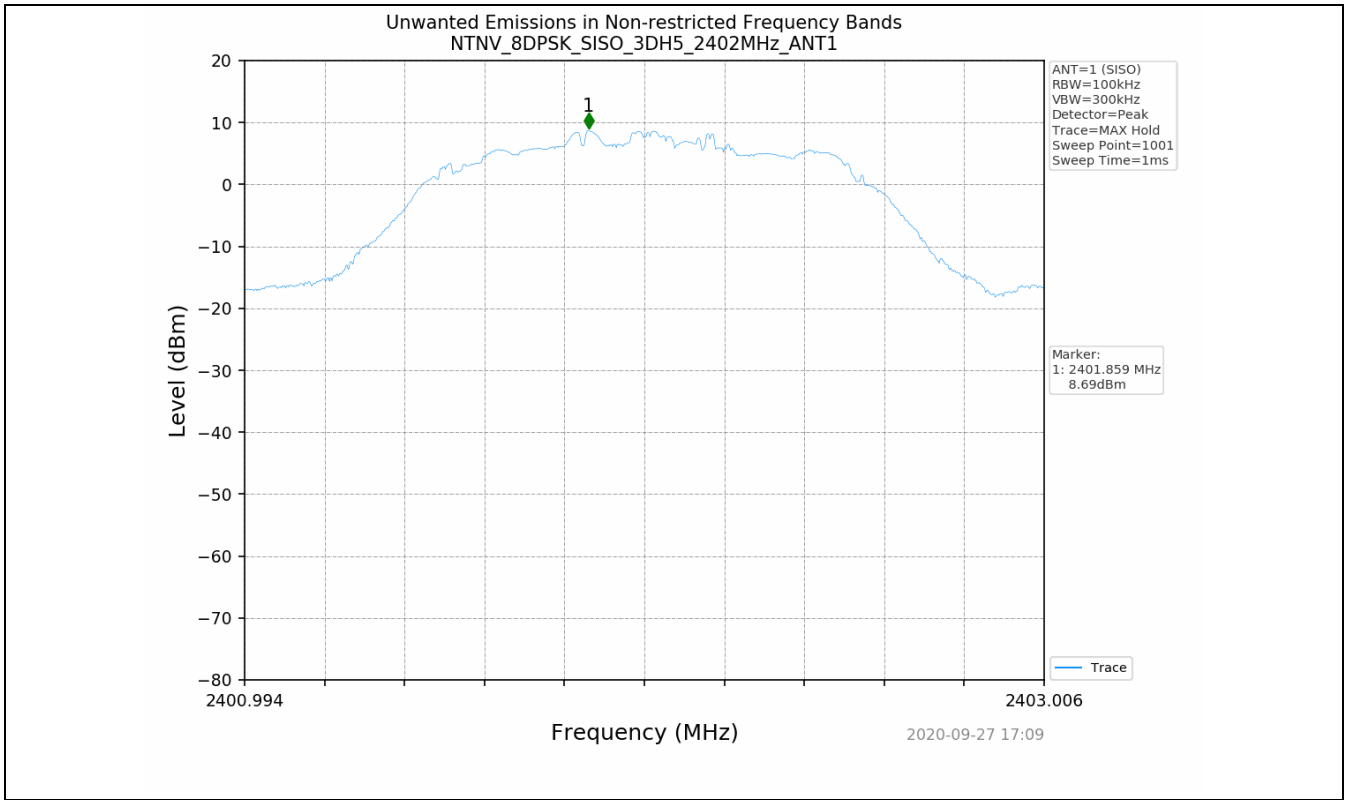
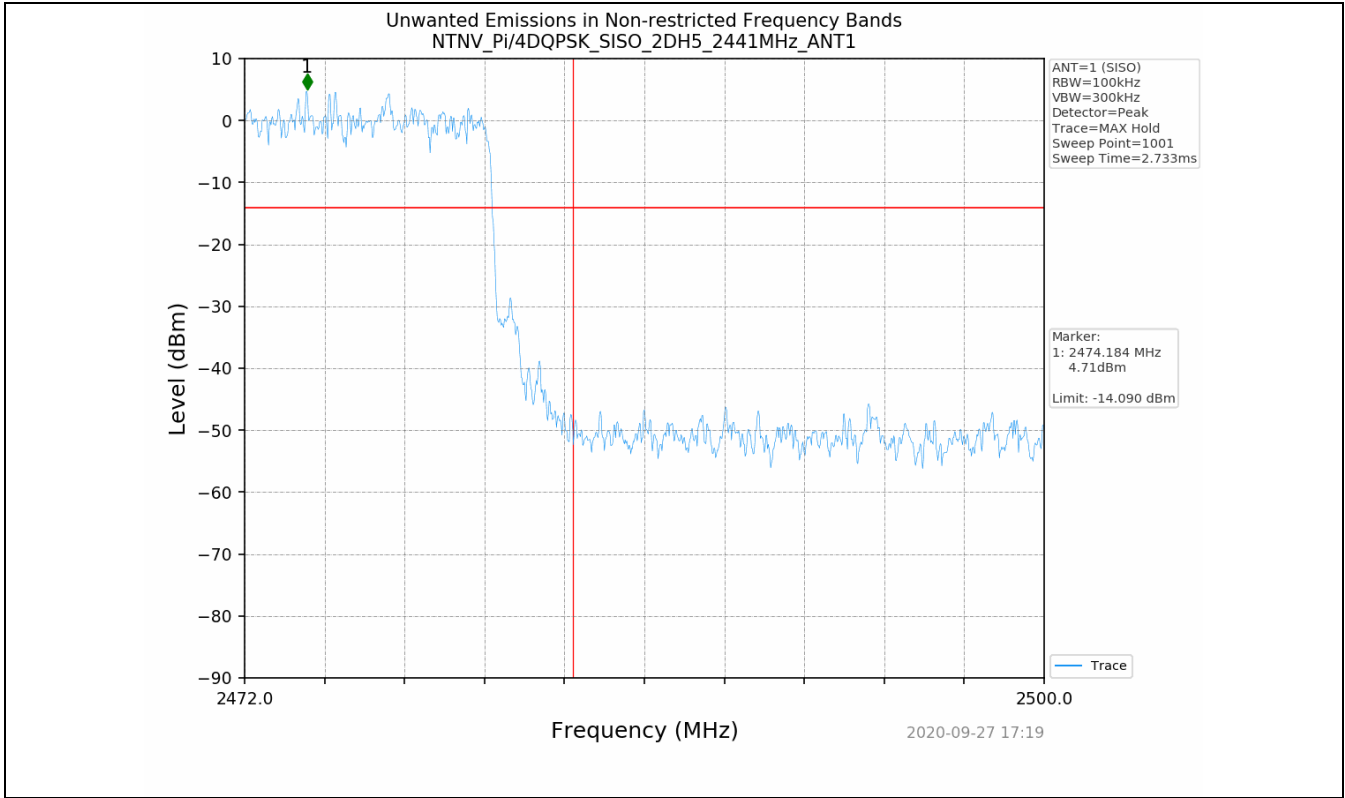


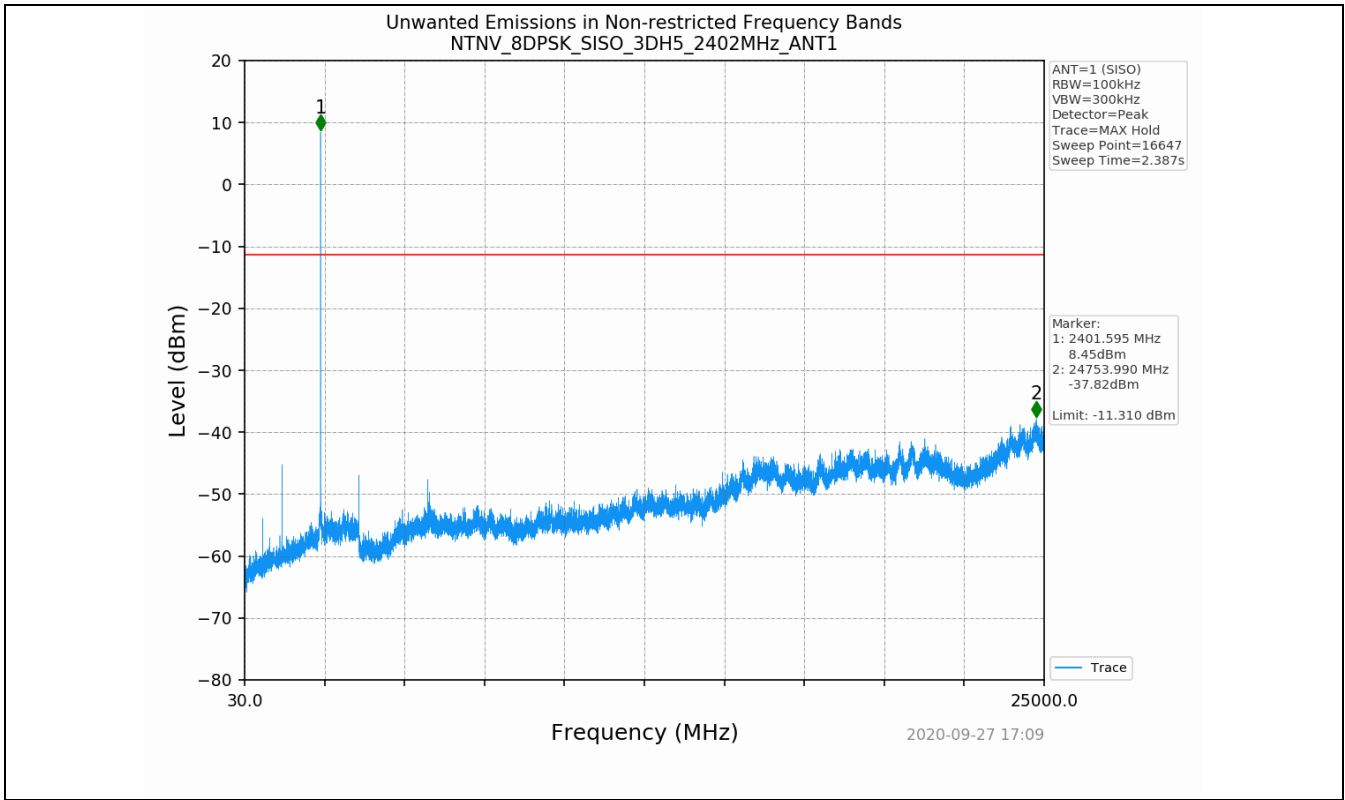
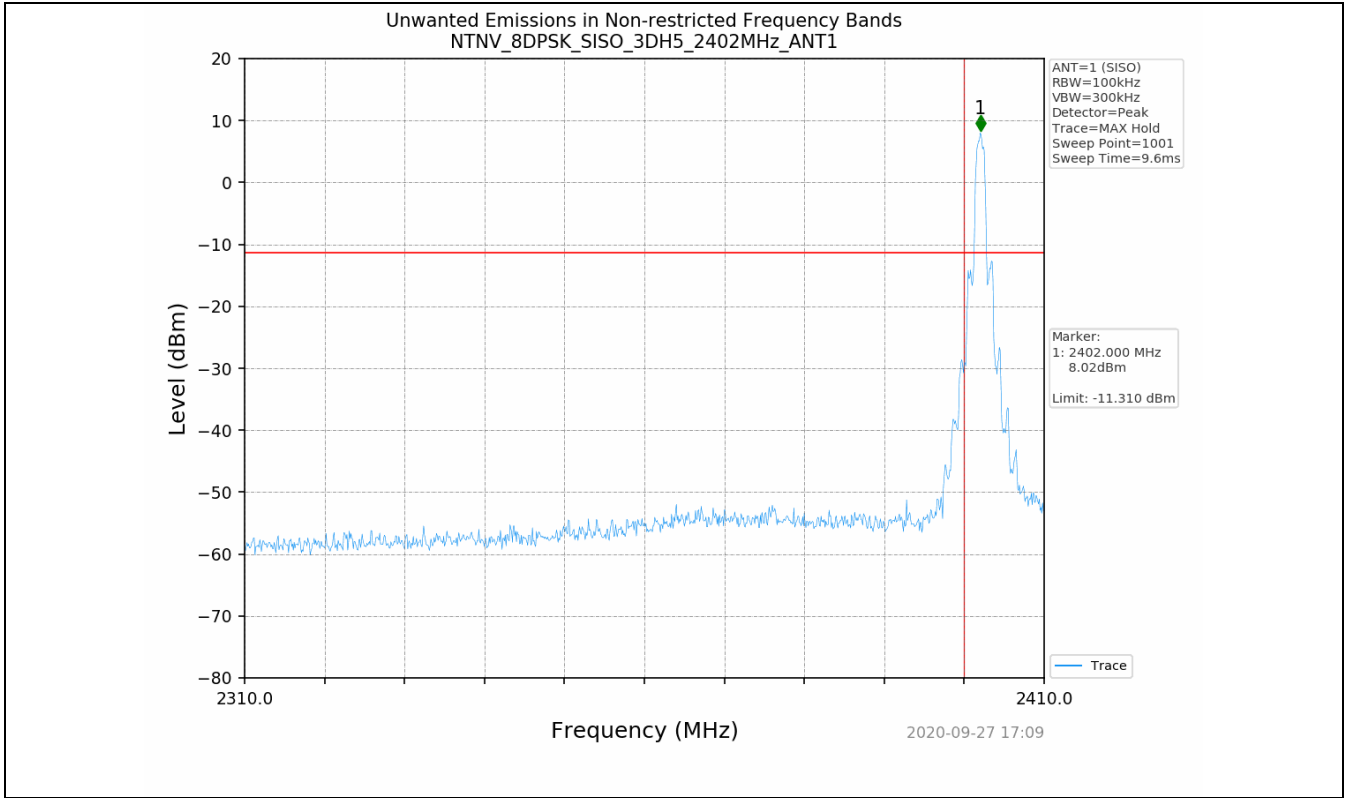


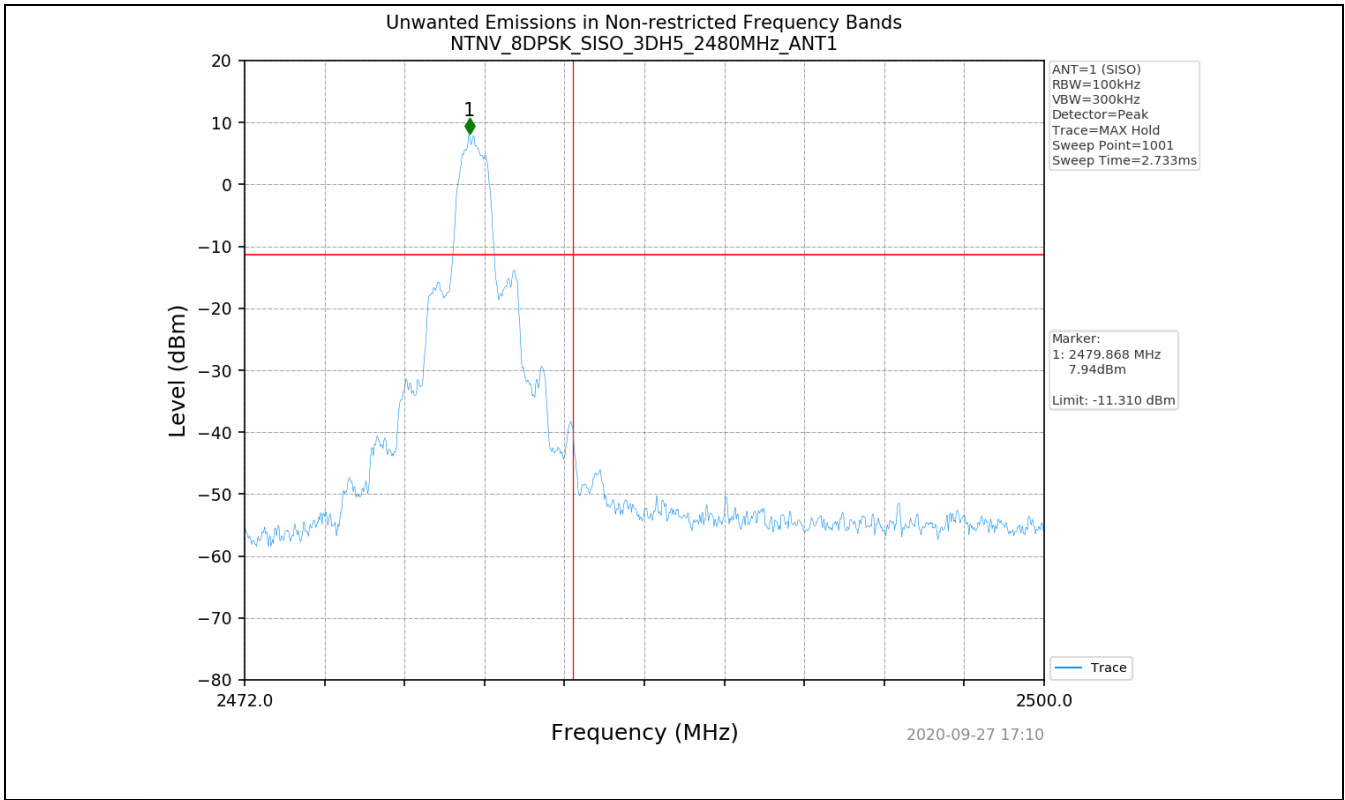
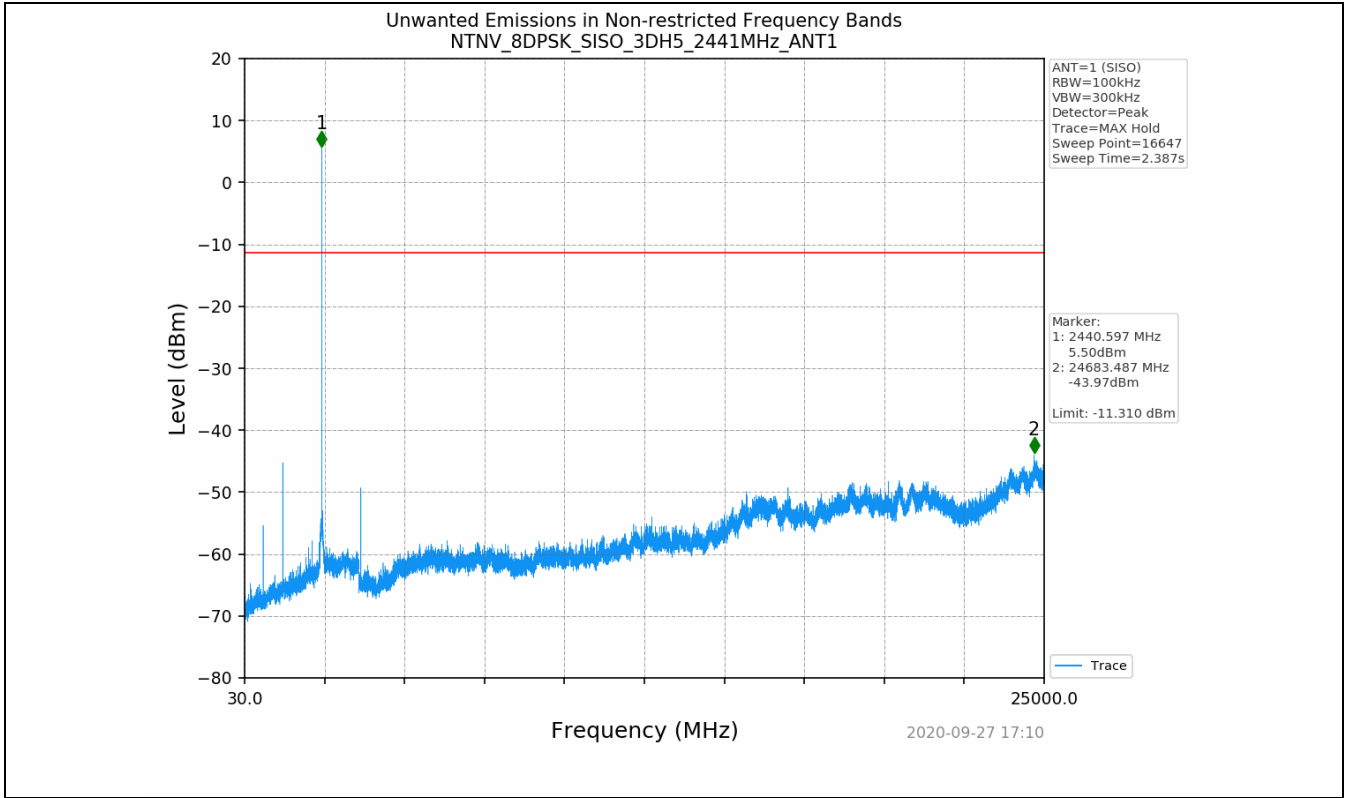


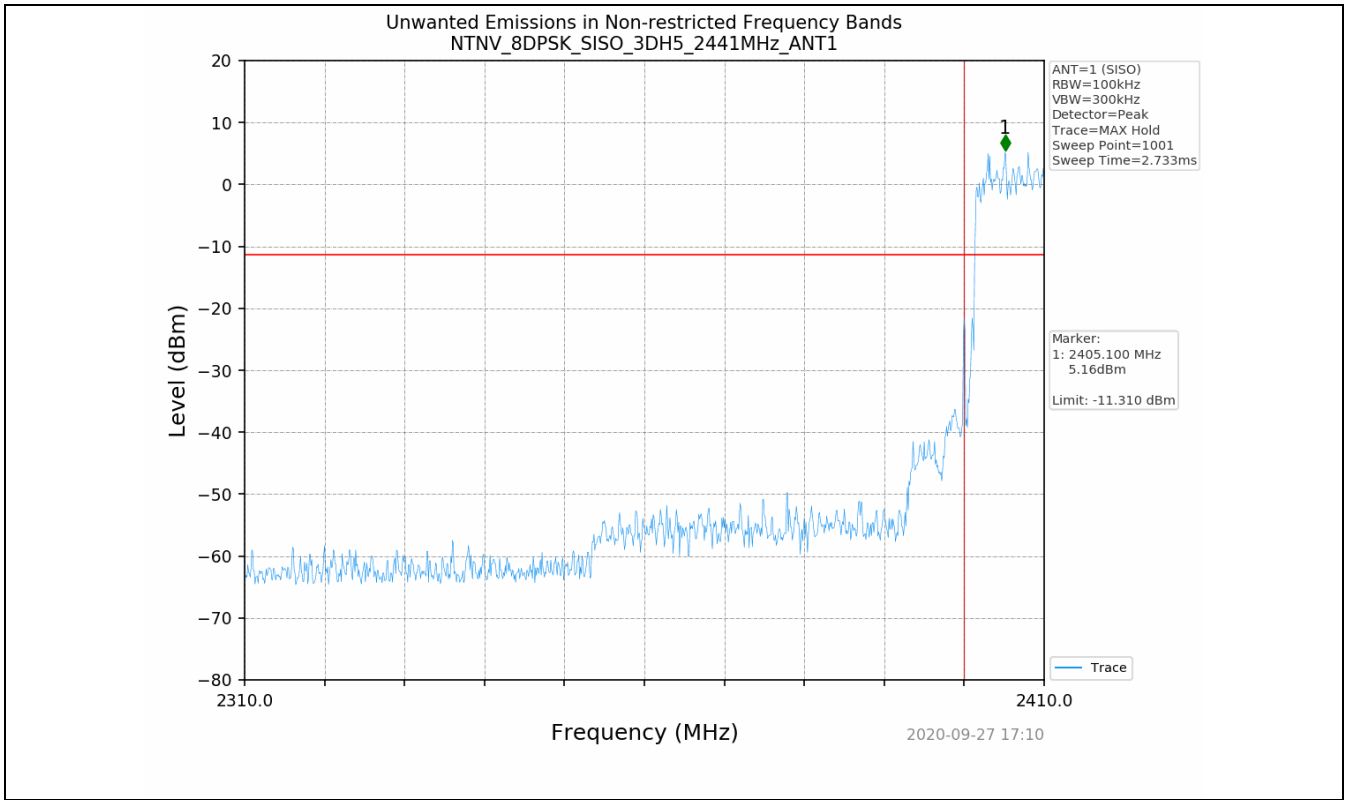
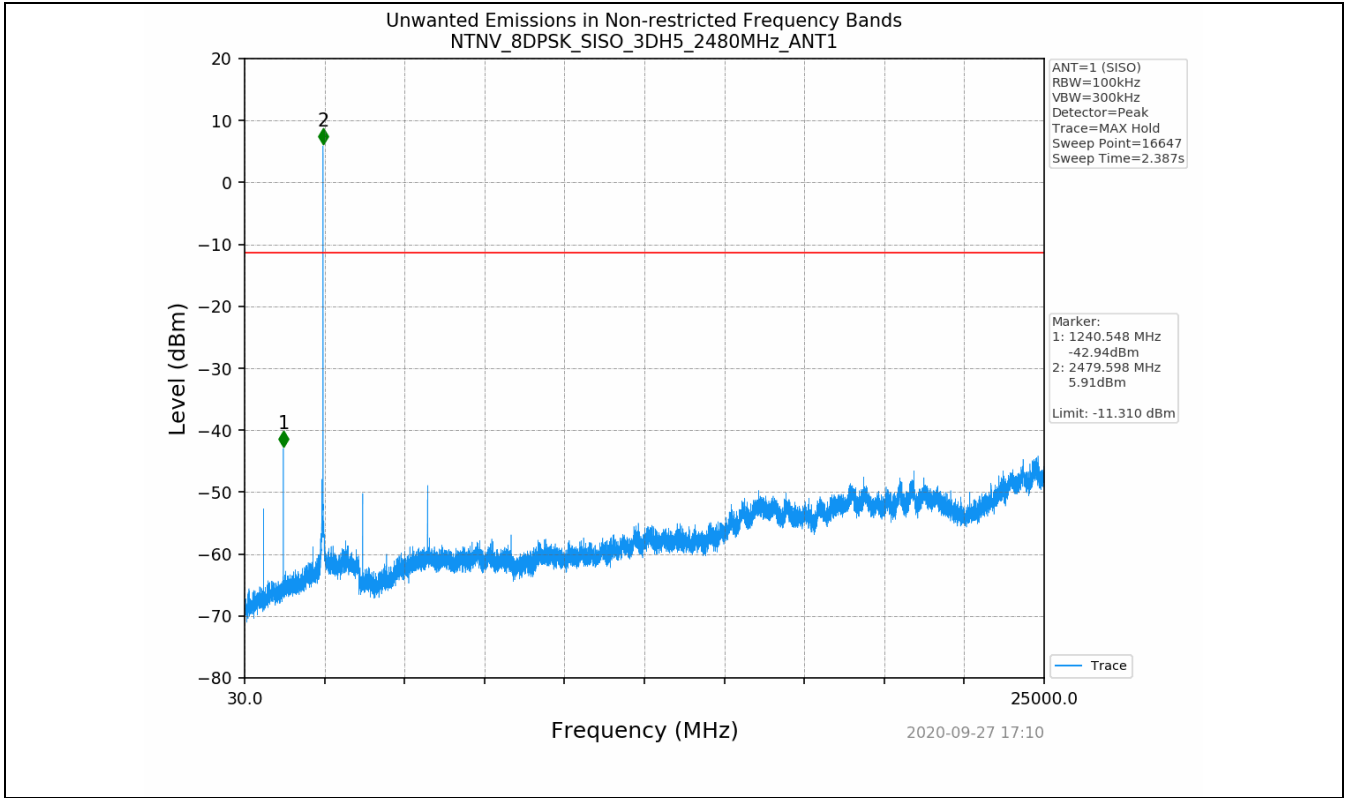












Unwanted Emissions in Non-restricted Frequency Bands  
NTNV\_8DPSK\_SISO\_3DH5\_2441MHz\_ANT1

