

Appendix for SHEM2012010711CR -BT-R

Power level setting using in test:

Channel	DH5	2DH5	3DH5
0	46	46	46
39	46	46	46
78	46	46	46

1. Bandwidth

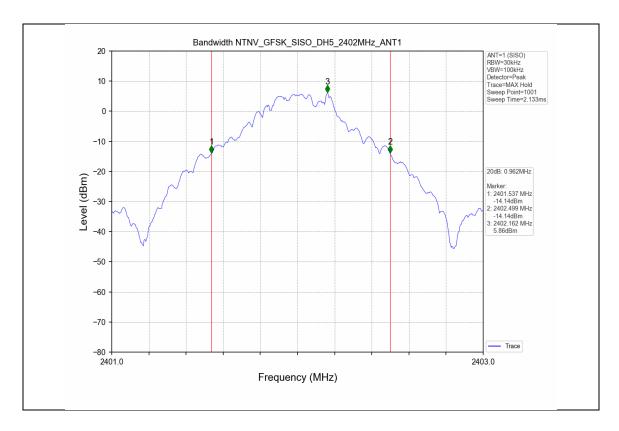
1.1 Test Result

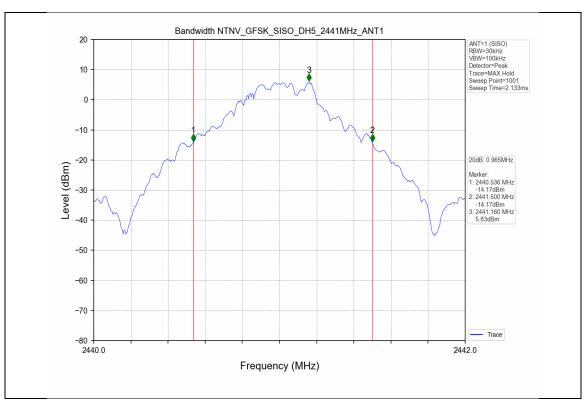
Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth Test Result (MHz)	Verdict
	2402	SISO	1	0.962	PASS
GFSK	2441	SISO	1	0.965	PASS
	2480	SISO	1	0.965	PASS
	2402	SISO	1	1.233	PASS
Pi/4DQPSK	2441	SISO	1	1.253	PASS
	2480	SISO	1	1.262	PASS
8DPSK	2402	SISO	1	1.290	PASS
	2441	SISO	1	1.274	PASS
	2480	SISO	1	1.275	PASS

Test Mode	Frequency (MHz)	TV Type	TX Type ANT No.	99% Occupied Bandwidth		
Test Mode		1 × 1 ype		Test Res	sult (MHz)	
	2402	SISO	1	0.886	Only for Report Use	
GFSK	2441	1 SISO 1 0.884 Only fo		Only for Report Use		
	2480	SISO	1	0.886	Only for Report Use	
	2402	SISO	1	1.155	Only for Report Use	
Pi/4DQPSK	2441	SISO	1	1.159	Only for Report Use	
	2480	SISO	1	1.154	Only for Report Use	
8DPSK	2402	SISO	1	1.160	Only for Report Use	
	2441	SISO	1	1.159	Only for Report Use	
	2480	SISO	1	1.160	Only for Report Use	

1.2 Test Graph - 20dB Bandwidth

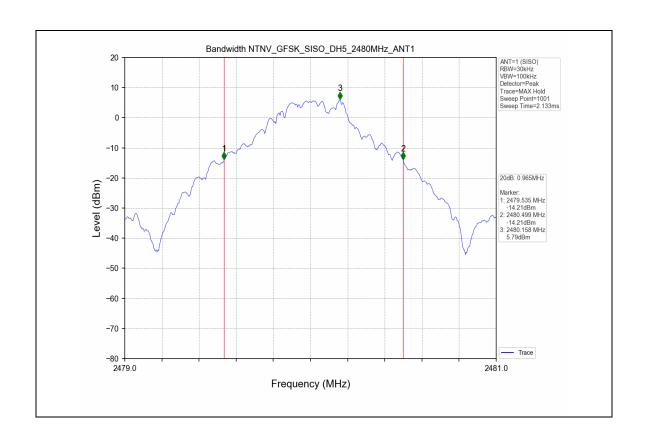




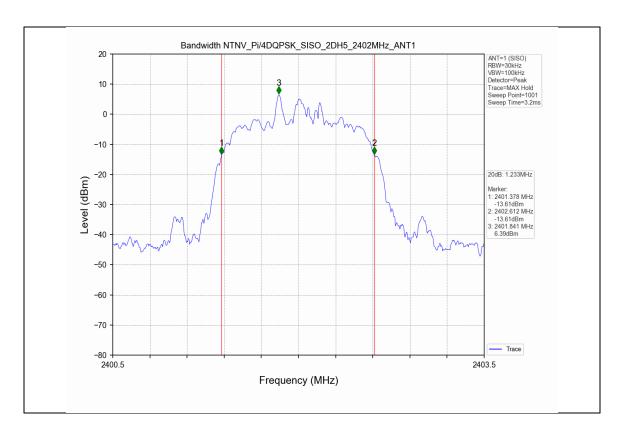


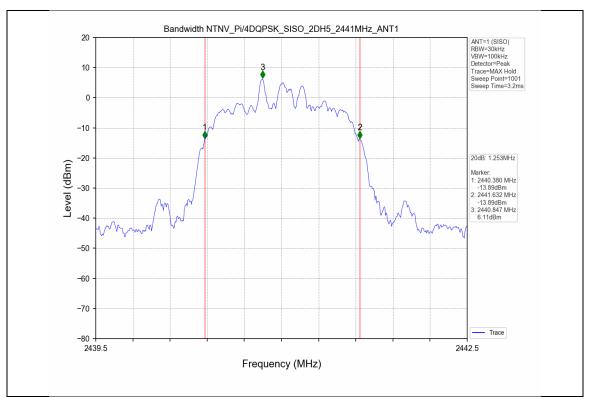
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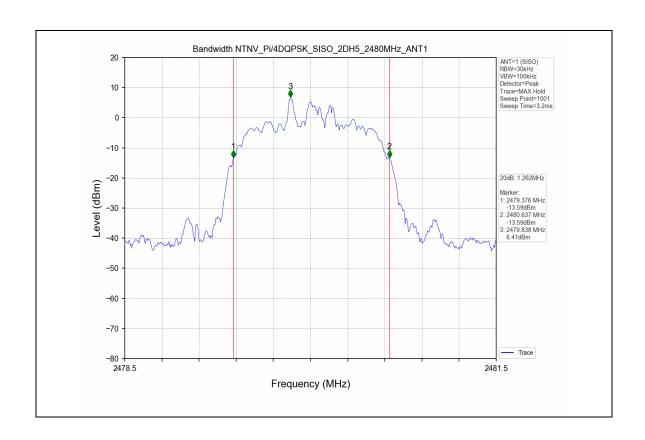




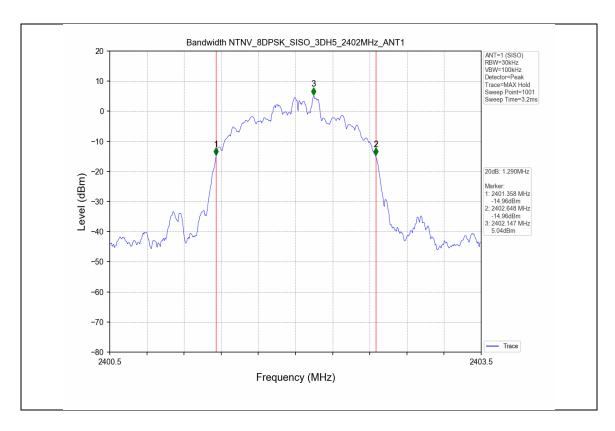


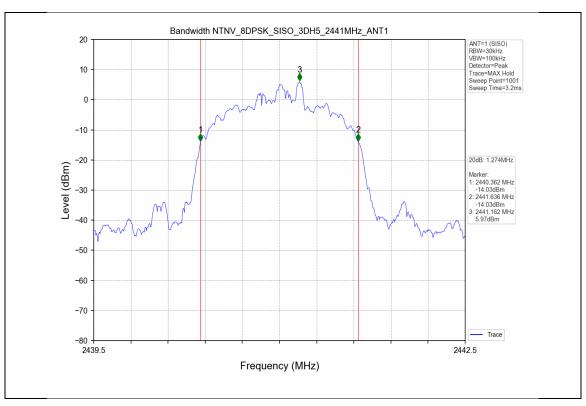
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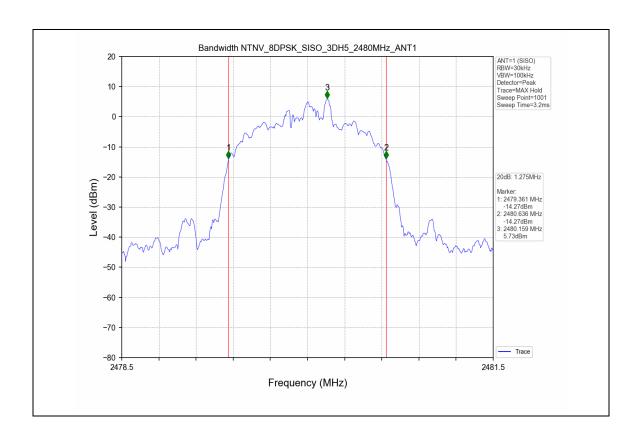






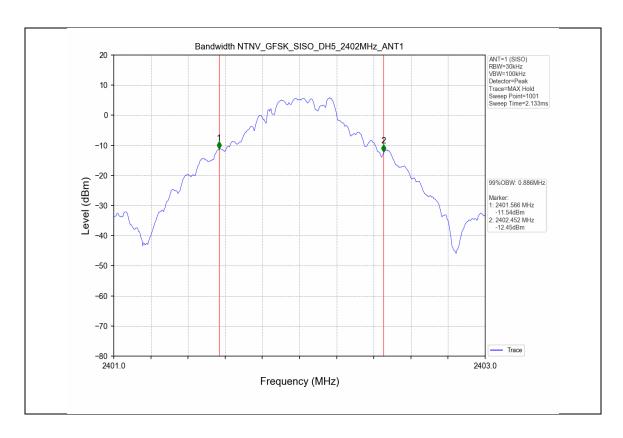
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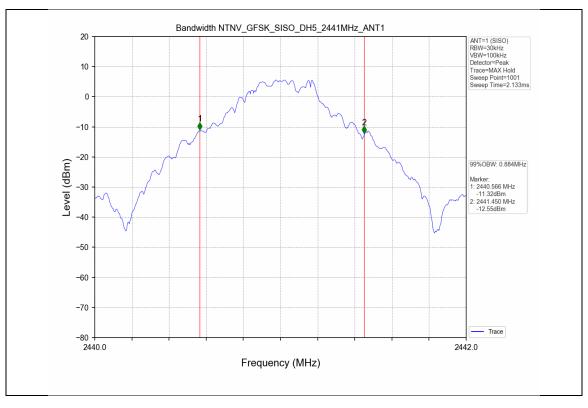




1.3 Test Graph - 99% Occupied Bandwidth

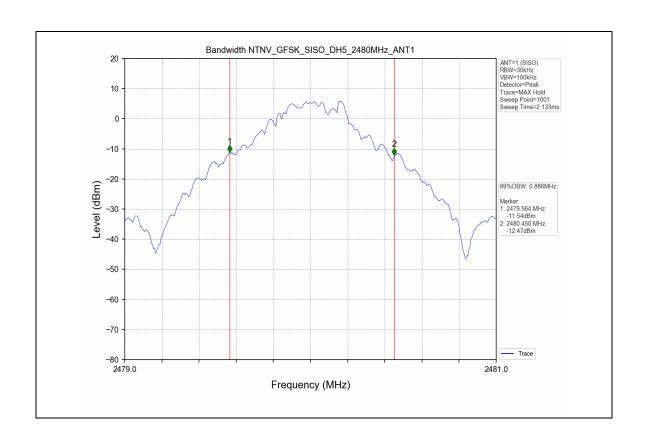




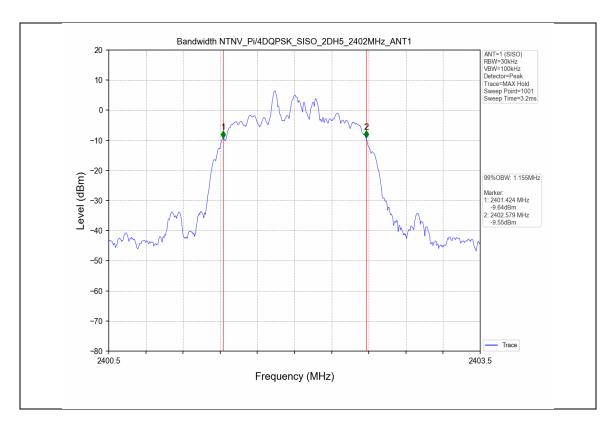


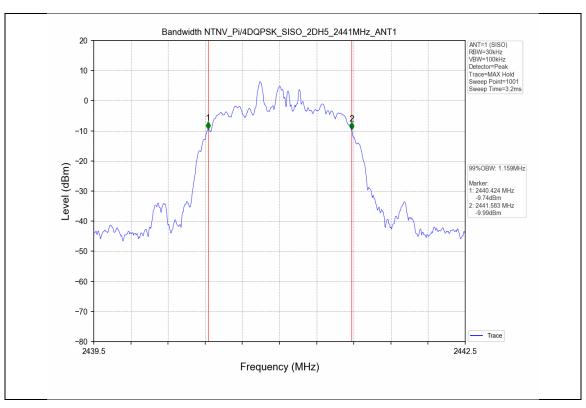
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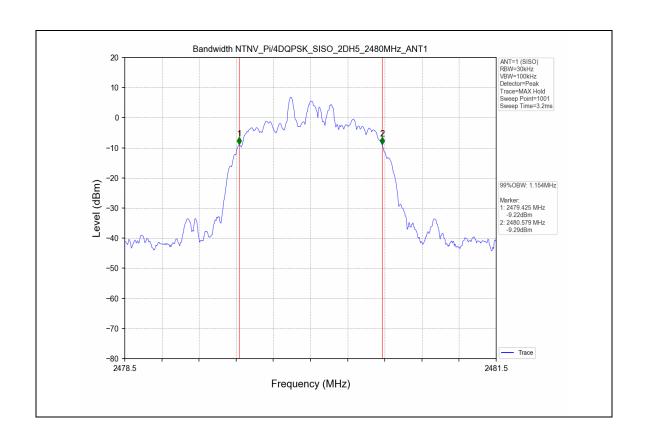




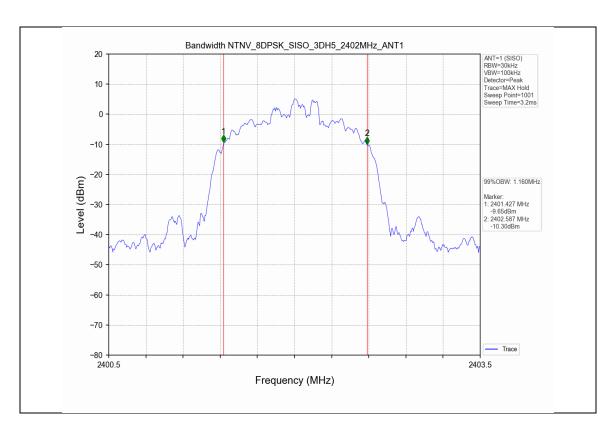


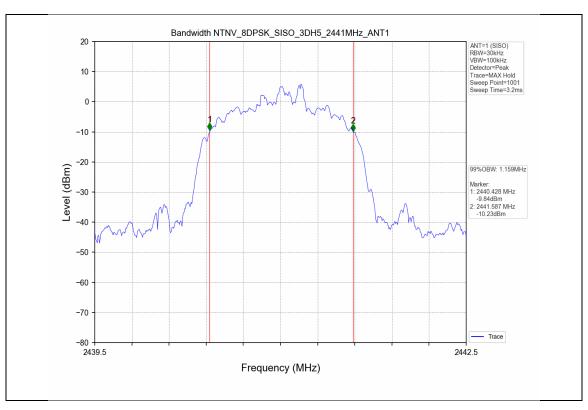
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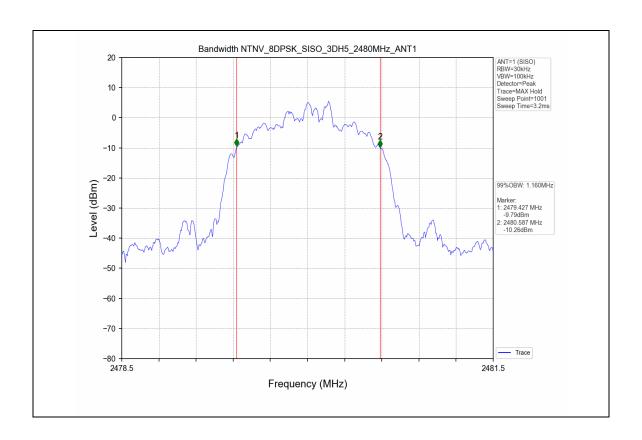






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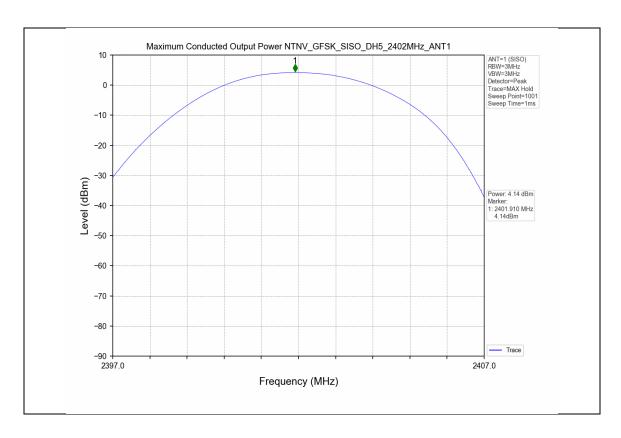
2. Maximum Conducted Output Power

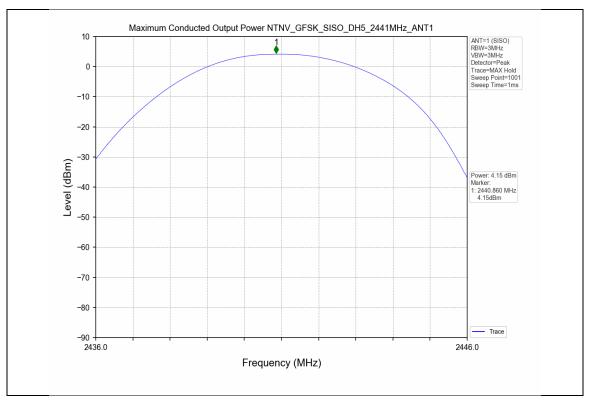
2.1 Test Result

Test Mode	Frequency (MHz)	Тх Туре	Measured Peak Output Power (dBm) Ant 1	Limits (dBm)	Verdict
	2402	SISO	4.14	30	PASS
GFSK	2441	SISO	4.15	30	PASS
	2480	SISO	4.61	30	PASS
	2402	SISO	4.12	20.97	PASS
Pi/4DQPSK	2441	SISO	4.15	20.97	PASS
	2480	SISO	4.61	20.97	PASS
8DPSK	2402	SISO	4.30	20.97	PASS
	2441	SISO	4.32	20.97	PASS
	2480	SISO	4.76	20.97	PASS

2.2 Test Graph

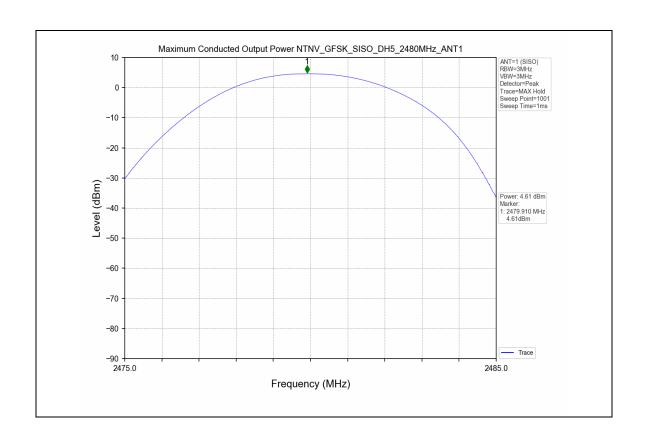




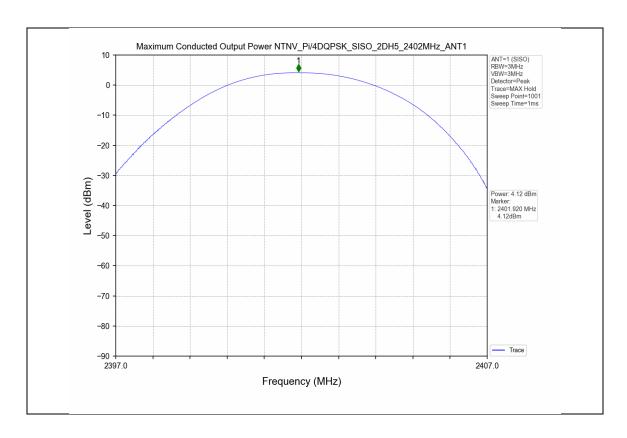


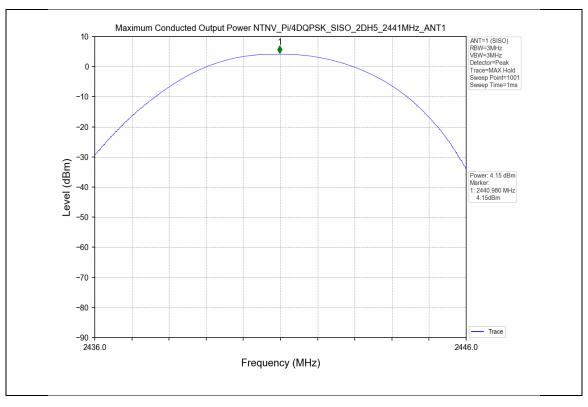
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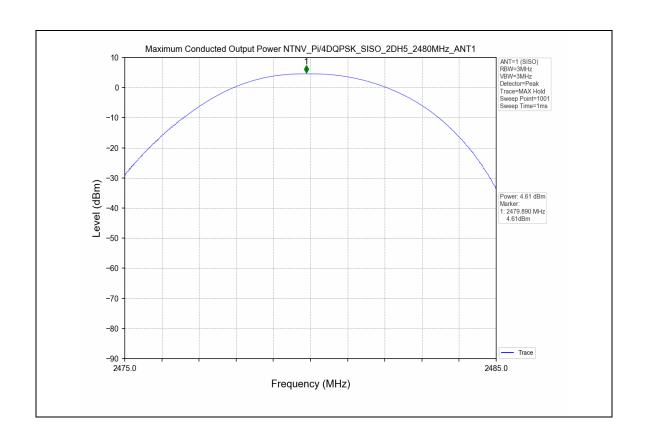




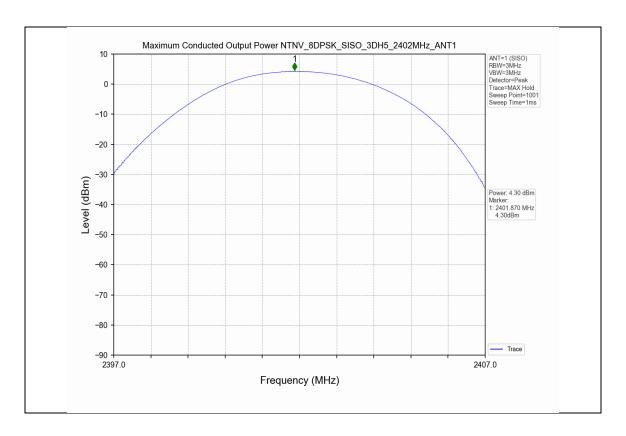


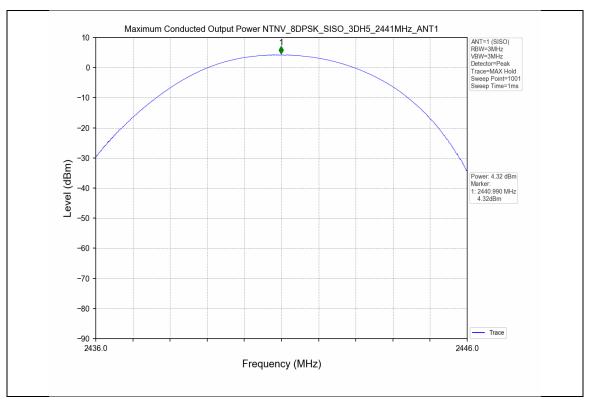
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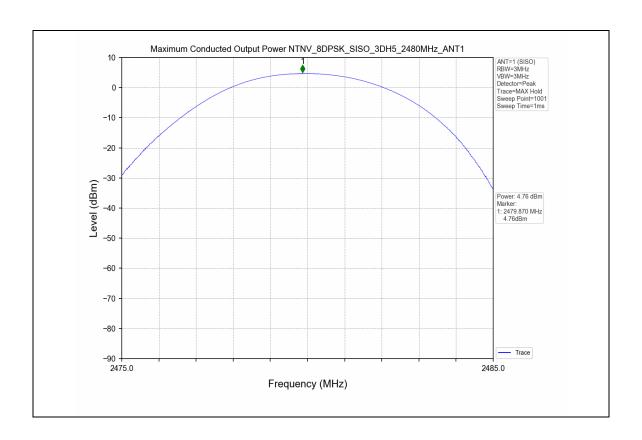






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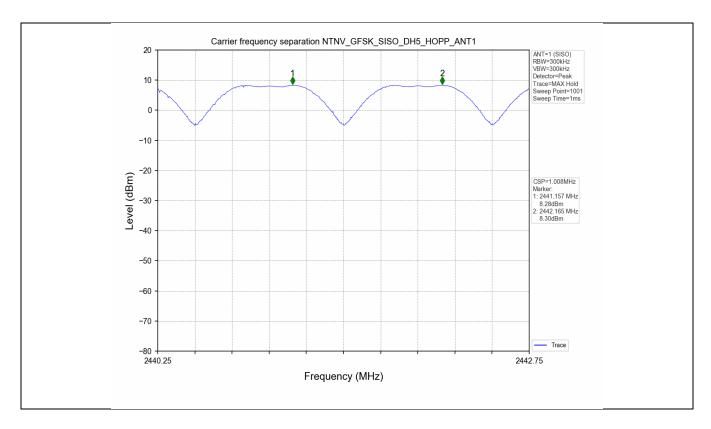
3. Carrier frequency separation

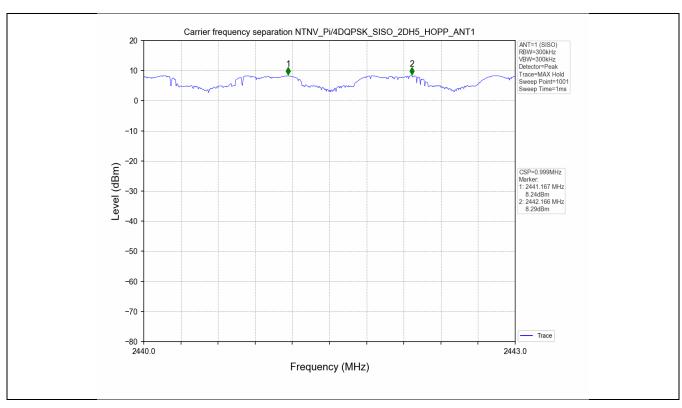
3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	1.008	0.965	≥0.965	PASS
Pi/4DQPSK	SISO	1	0.999	1.262	≥0.841	PASS
8DPSK	SISO	1	0.975	1.290	≥0.860	PASS

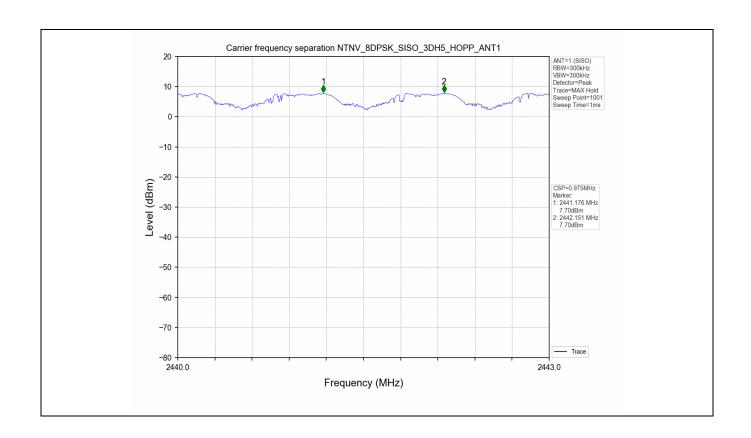
3.2 Test Graph











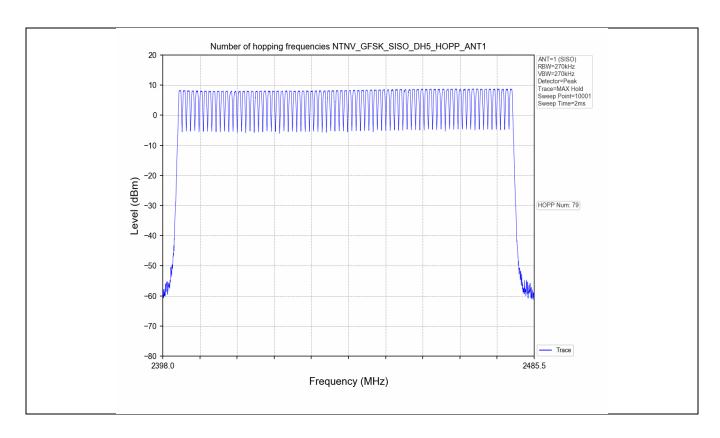
4. Number of hopping frequencies

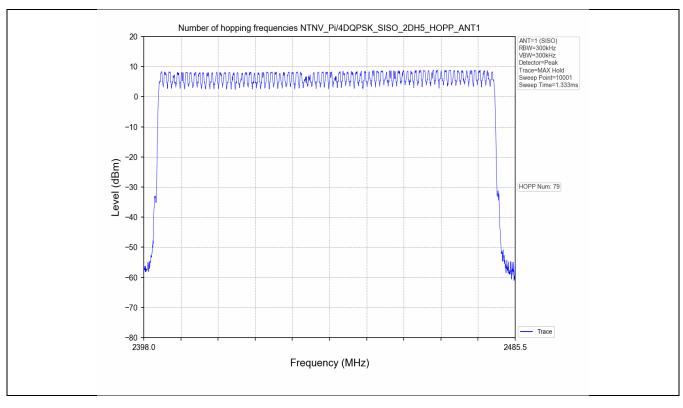
4.1 Test Result

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

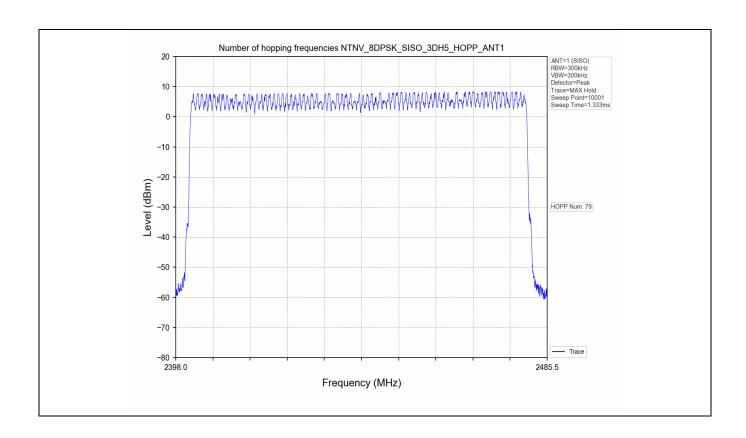
4.2 Test Graph











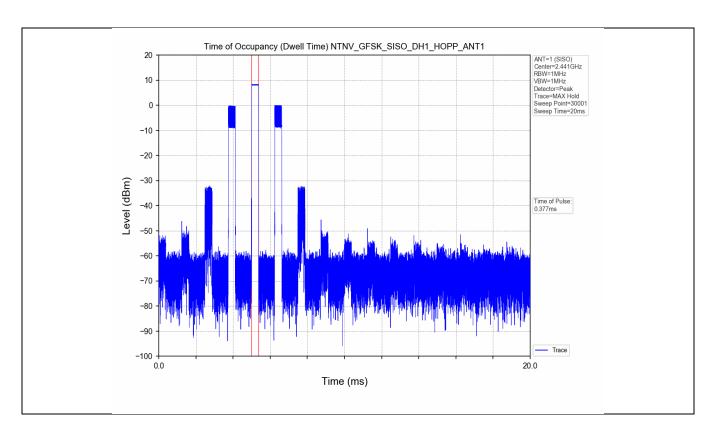
5. Time of Occupancy (Dwell Time)

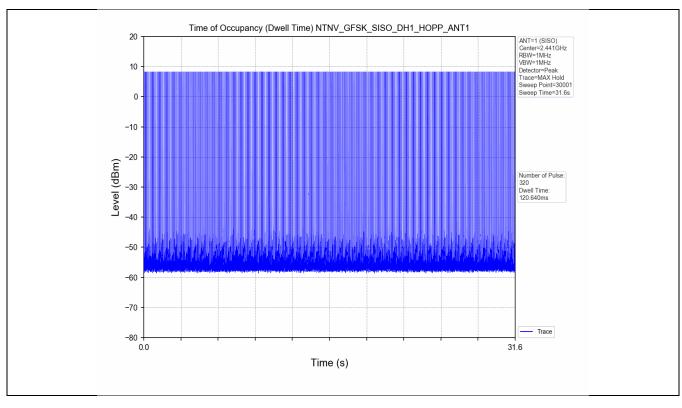
5.1 Test Result

Test Mode	Packet Type	ТХ Туре	ANT No.		_	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
	DH1	SISO	1	0.377	31.6	320	120.640	≤400	PASS
GFSK	DH3	SISO	1	1.635	31.6	160	261.600	≤400	PASS
	DH5	SISO	1	2.834	31.6	107	303.238	≤400	PASS
Pi/4DQ	2DH1	SISO	1	0.383	31.6	320	122.560	≤400	PASS
PSK	2DH3	SISO	1	1.636	31.6	160	261.760	≤400	PASS
FOR	2DH5	SISO	1	2.836	31.6	107	303.452	≤400	PASS
	3DH1	SISO	1	0.383	31.6	320	122.560	≤400	PASS
8DPSK	3DH3	SISO	1	1.633	31.6	160	261.280	≤400	PASS
	3DH5	SISO	1	2.836	31.6	107	303.452	≤400	PASS

5.2 Test Graph



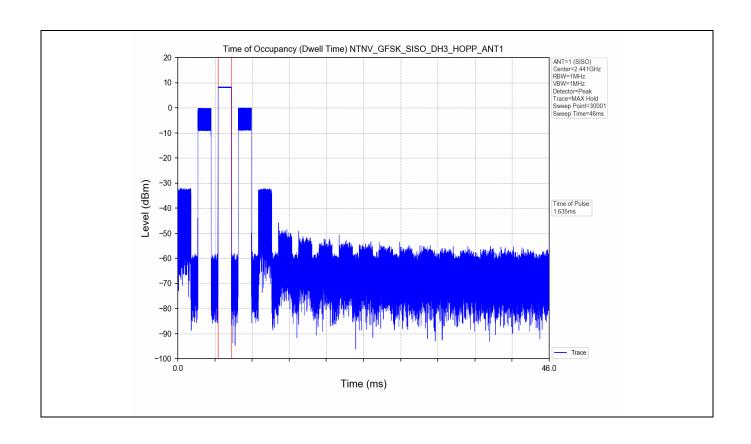




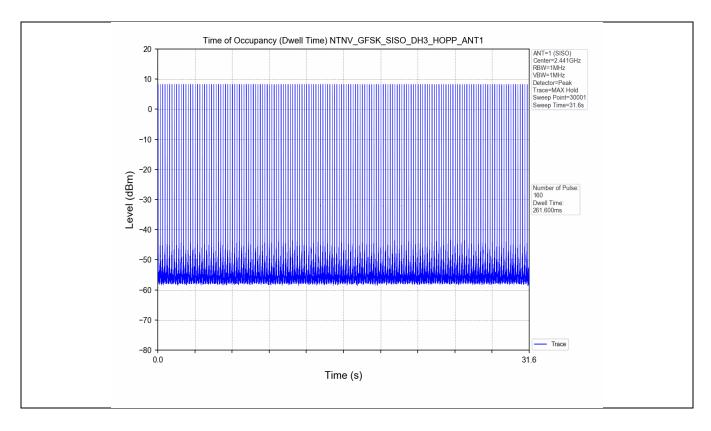
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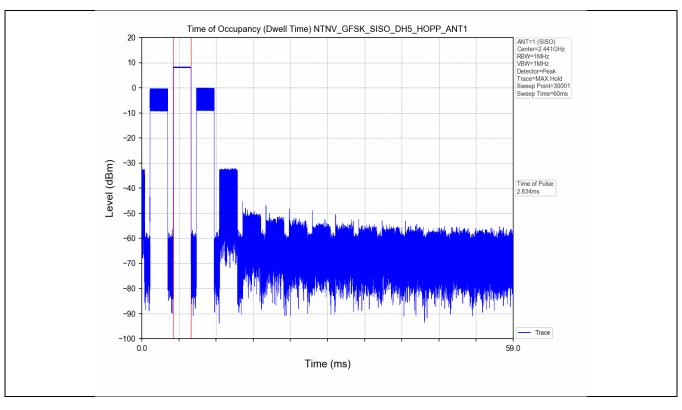
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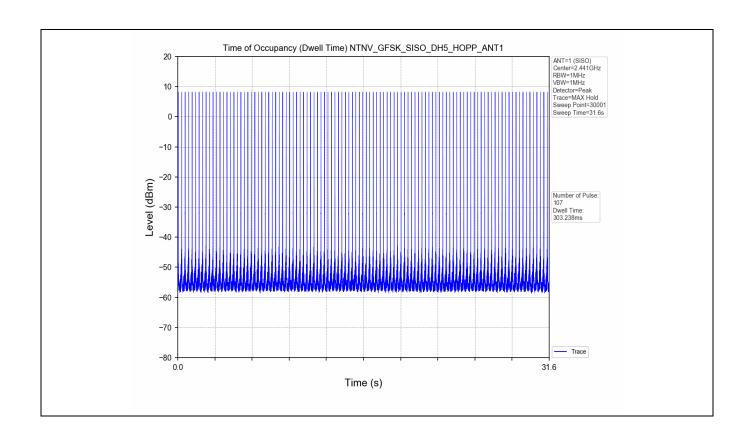




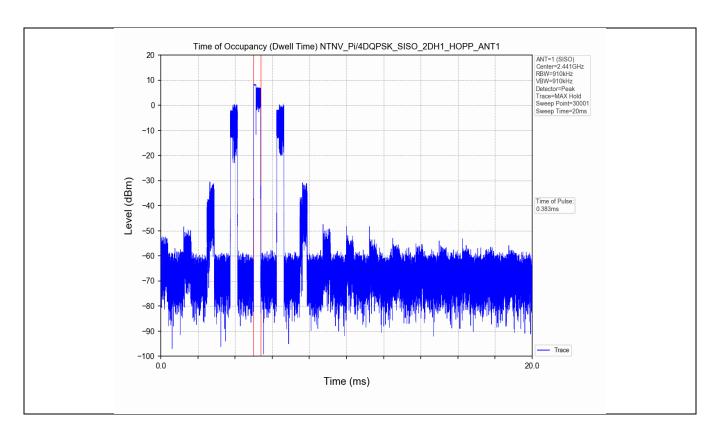


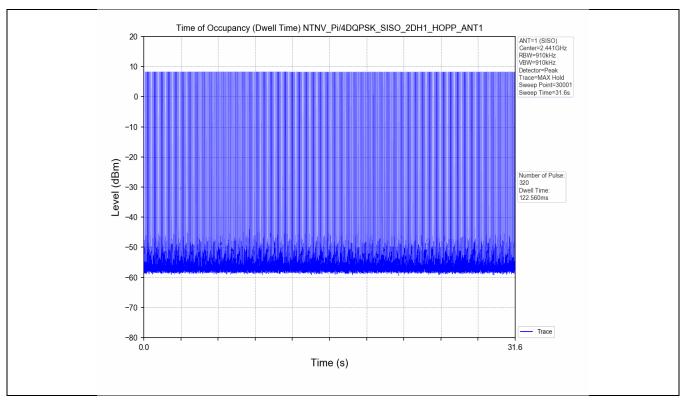
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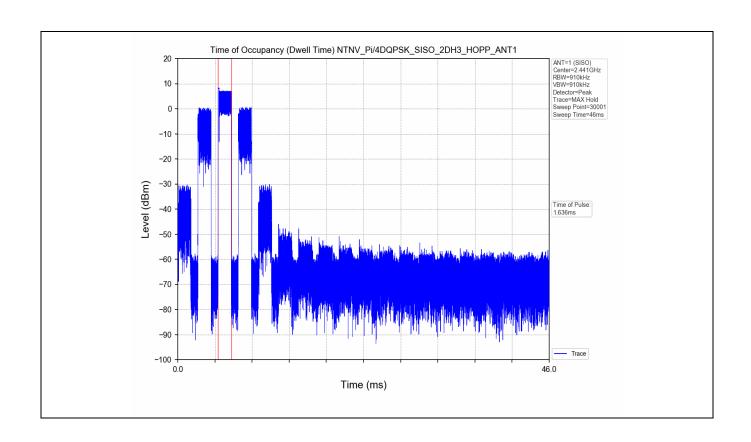




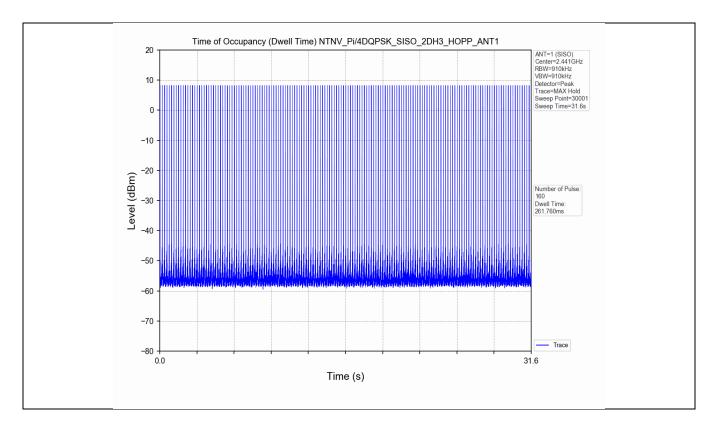


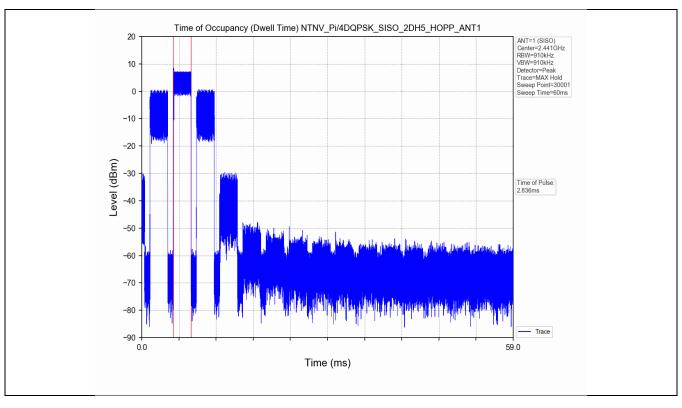
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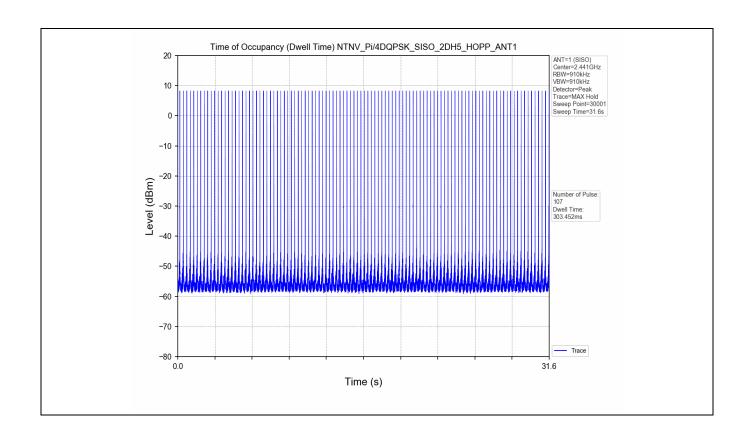
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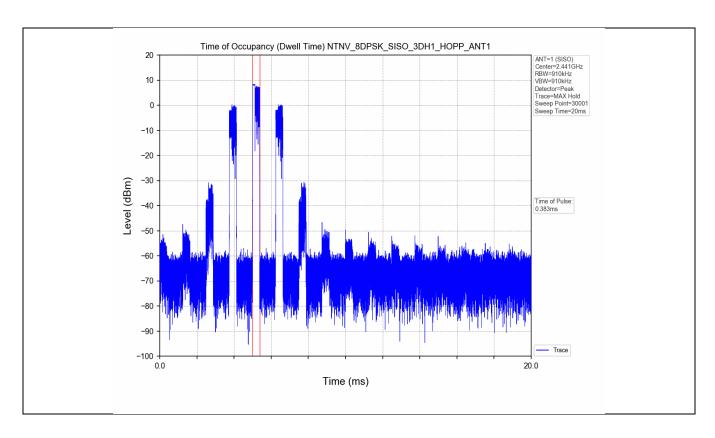
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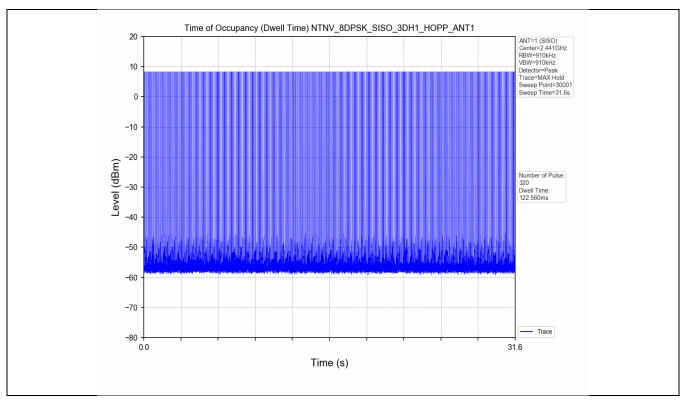
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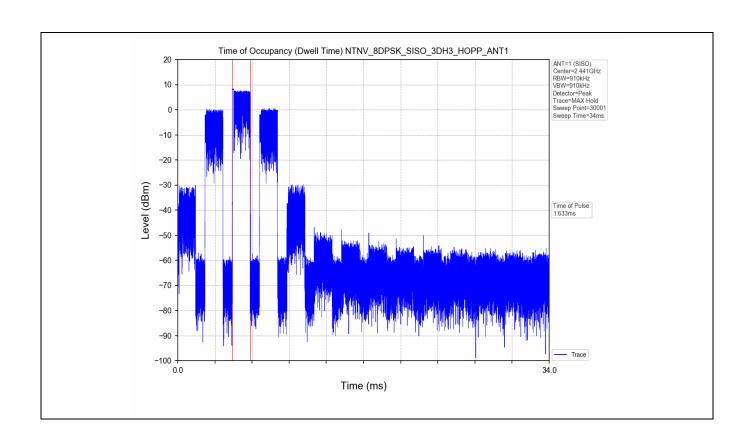




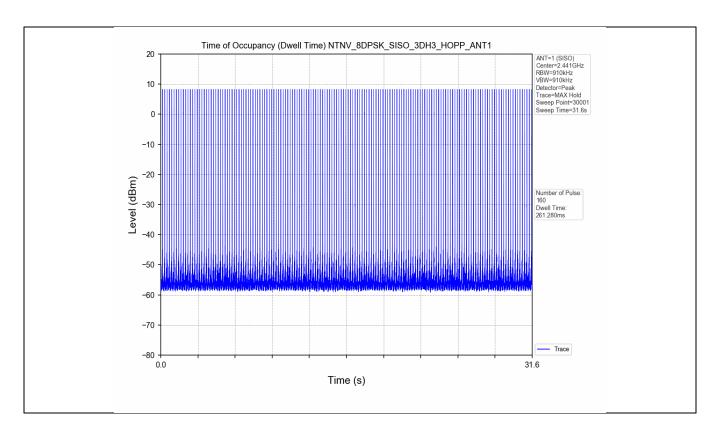


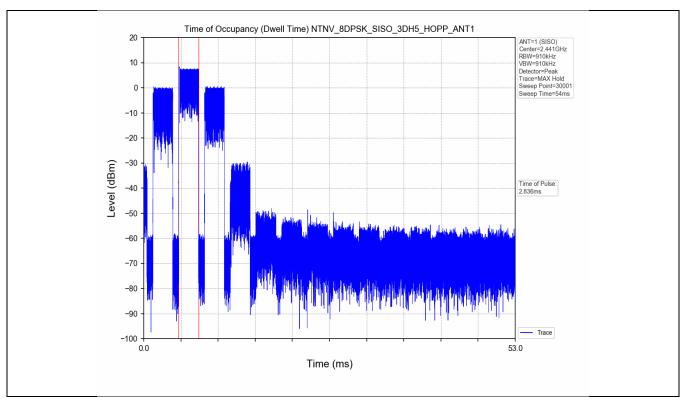
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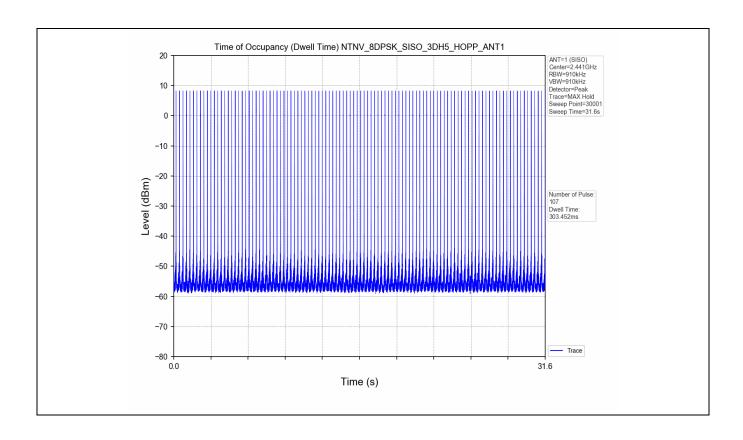






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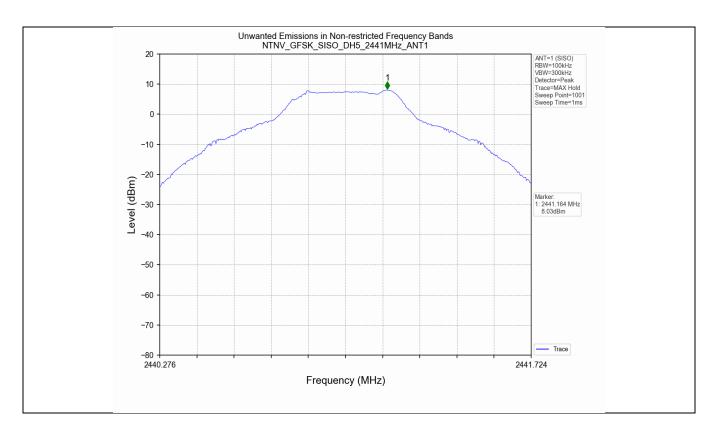
6. Unwanted Emissions in Non-restricted Frequency Bands

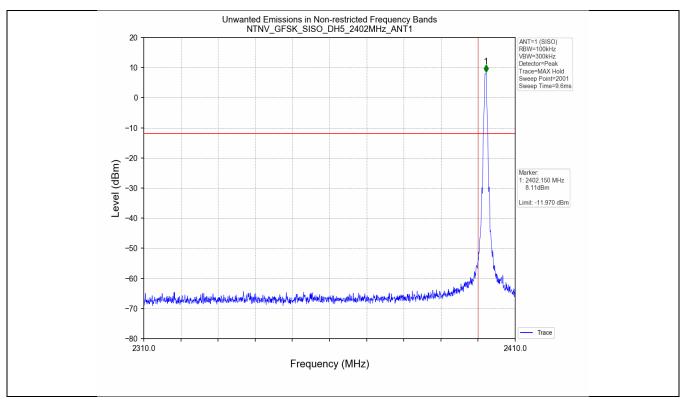
6.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
	2402	SISO	1	Refer to test graph	-11.97	PASS
GFSK	2441	SISO	1	Refer to test graph	-11.97	PASS
Gran	2480	SISO	1	Refer to test graph	-11.97	PASS
	Hopping	SISO	1	Refer to test graph	-11.97	PASS
	2402	SISO	1	Refer to test graph	-11.48	PASS
Pi/4DQPSK	2441	SISO	1	Refer to test graph	-11.48	PASS
FI/4DQF3K	2480	SISO	1	Refer to test graph	-11.48	PASS
	Hopping	SISO	1	Refer to test graph	-11.48	PASS
	2402	SISO	1	Refer to test graph	-11.84	PASS
8DPSK	2441	SISO	1	Refer to test graph	-11.84	PASS
	2480	SISO	1	Refer to test graph	-11.84	PASS
	Hopping	SISO	1	Refer to test graph	-11.84	PASS

6.2 Test Graph

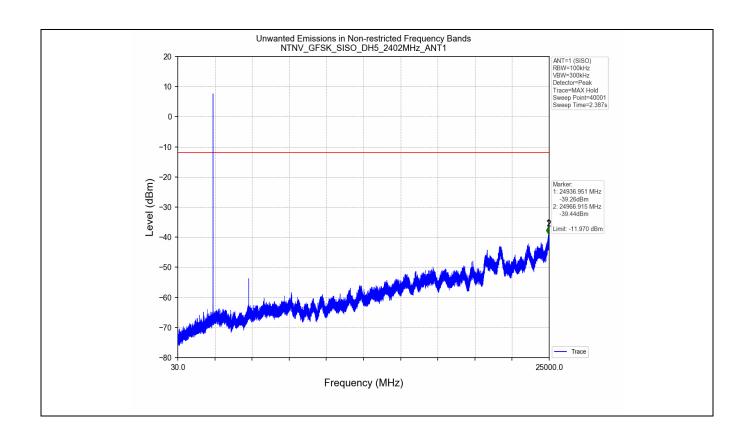




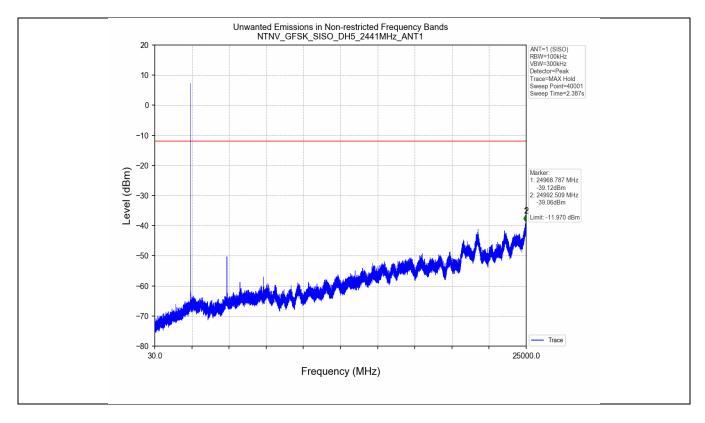


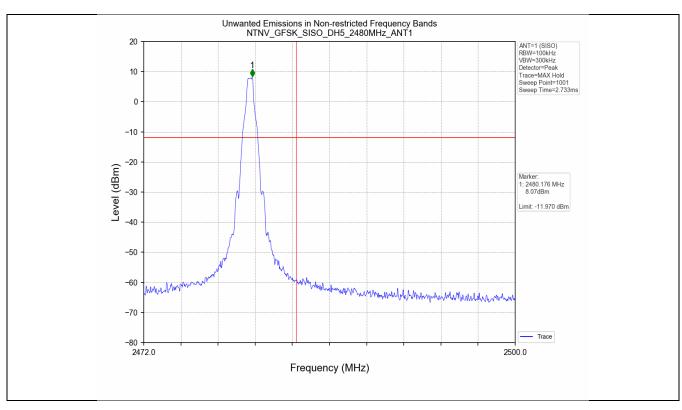
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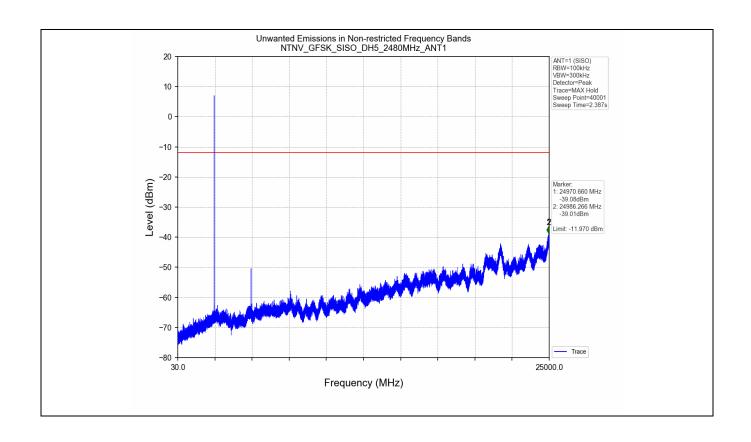




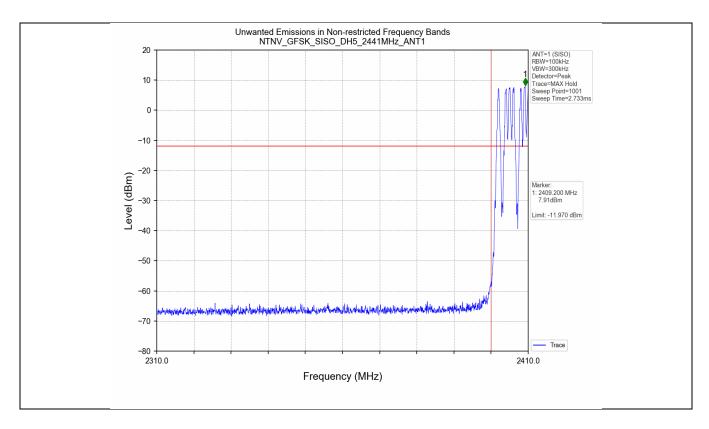


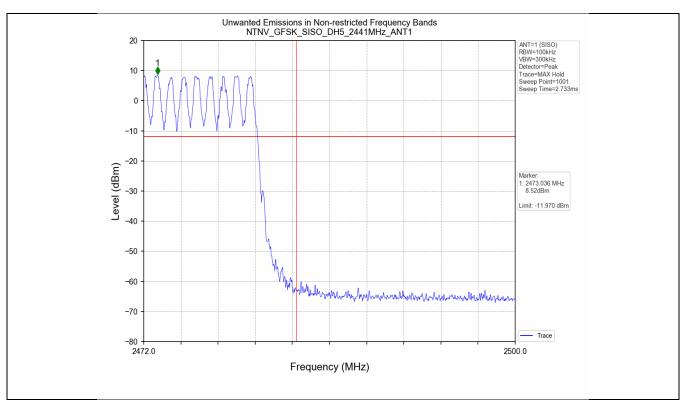




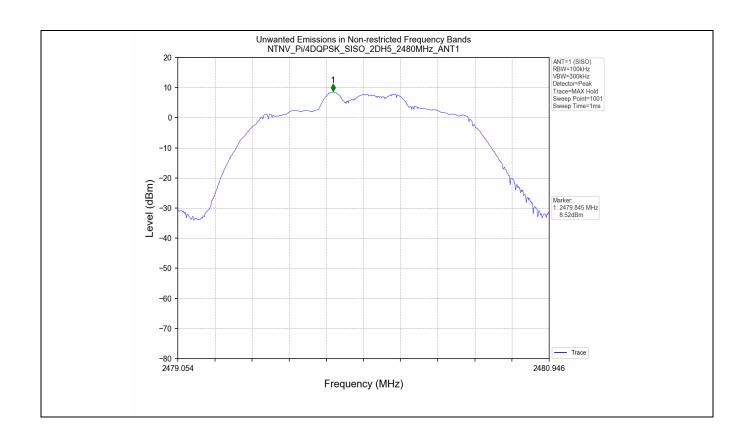




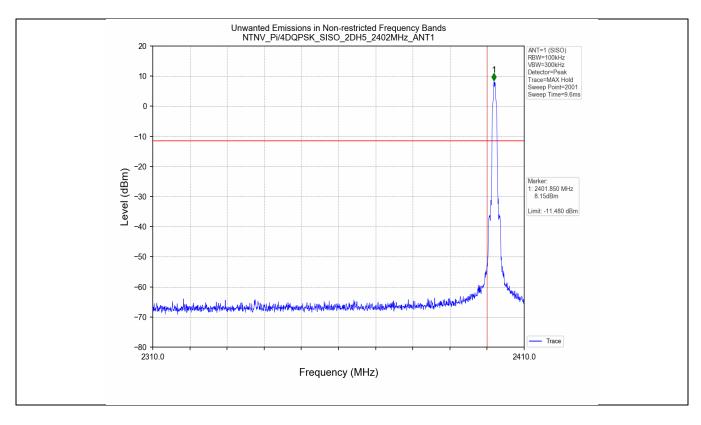


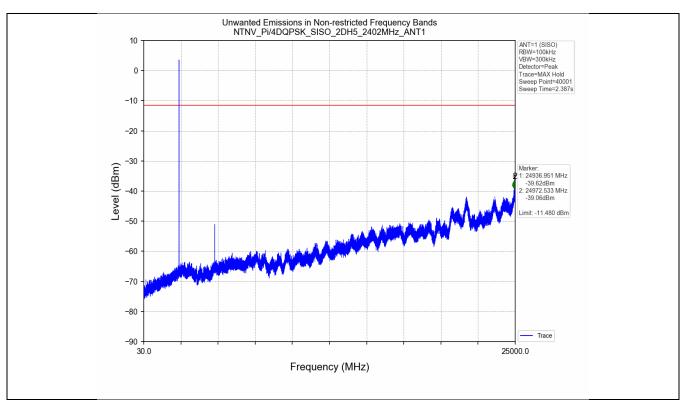












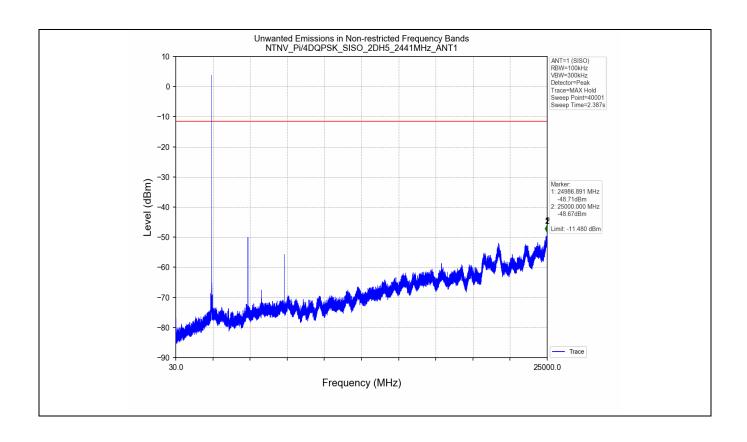
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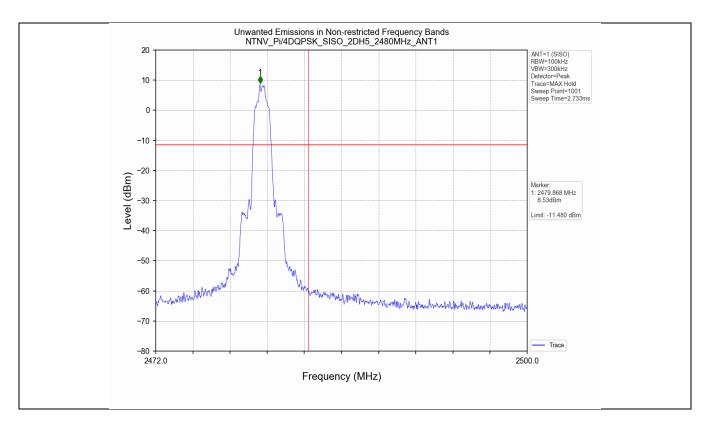
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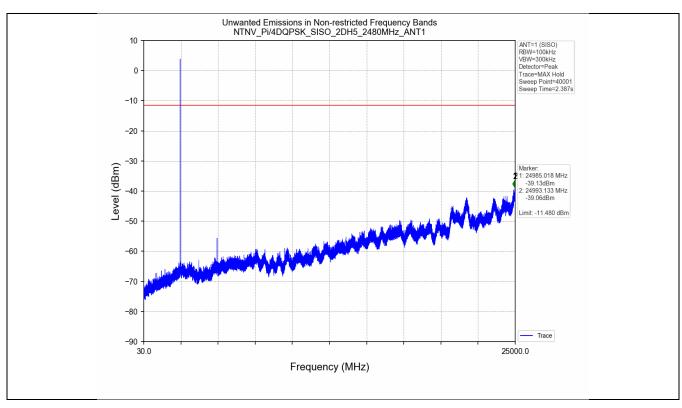
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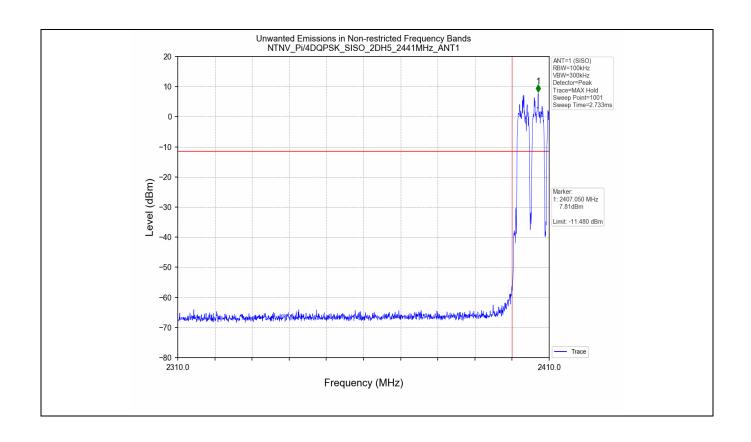
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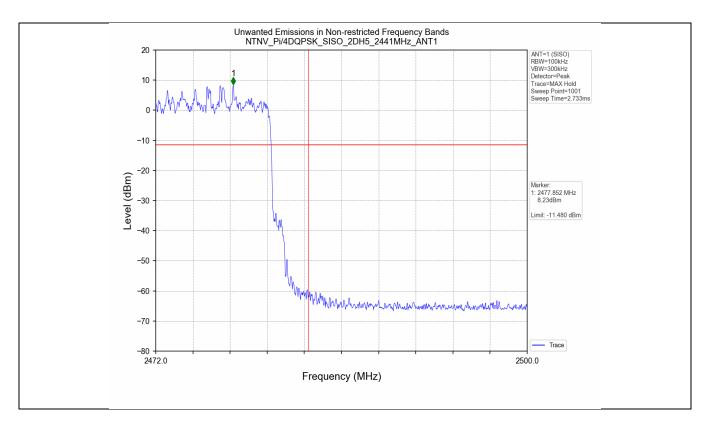
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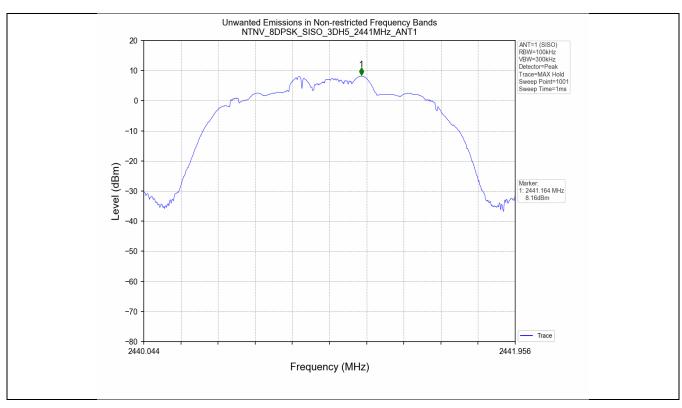
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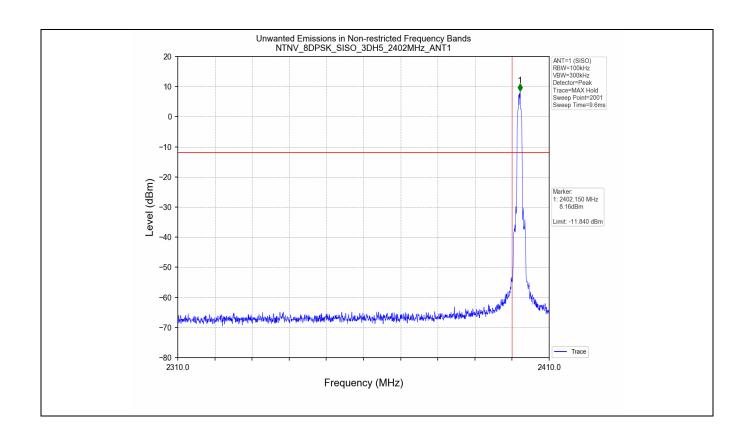




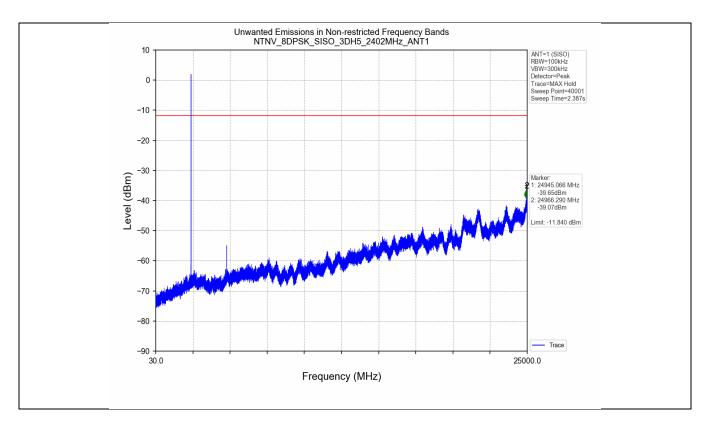


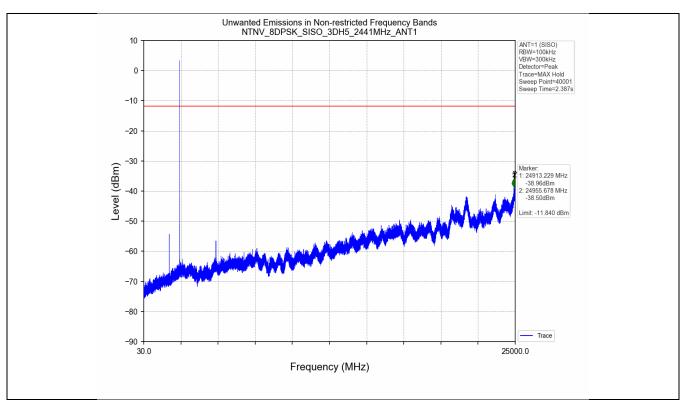












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