



Shenzhen CTL Testing Technology Co., Ltd.

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Appendix: Test Data for BT

Product Name: Siyata SD7

Test Model: SD7

Appendix for 15.247

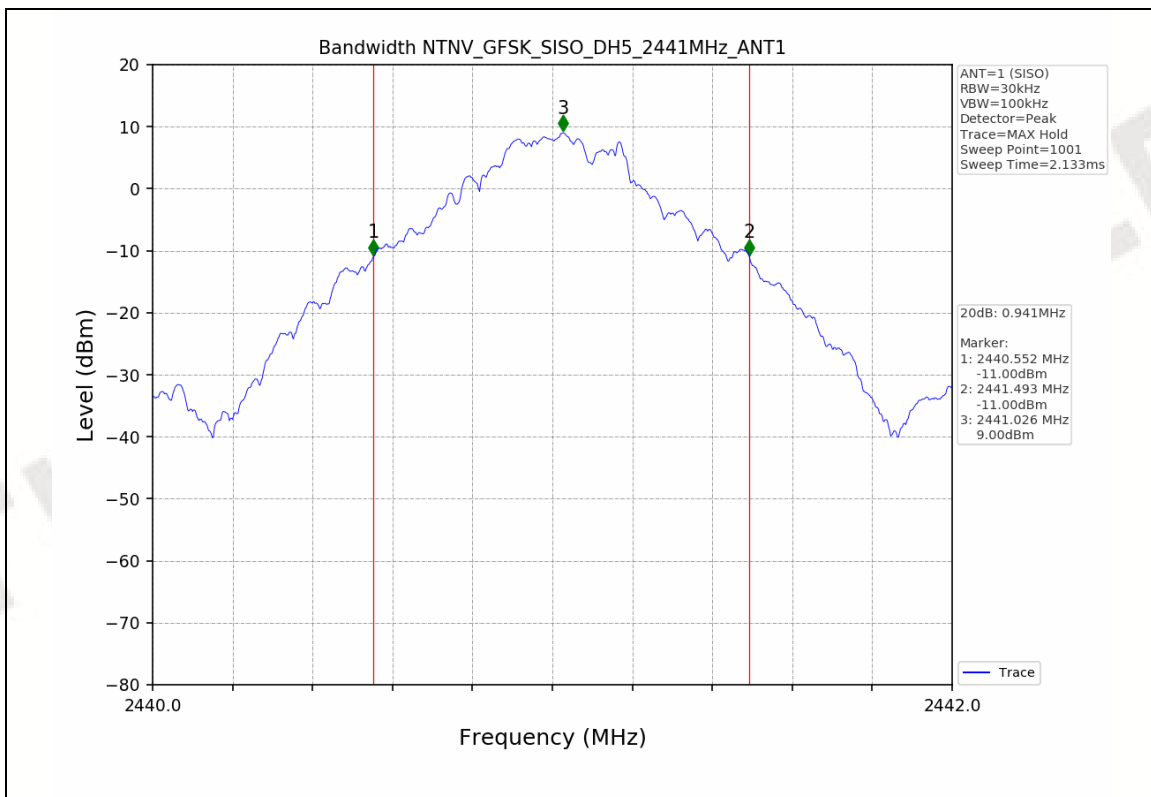
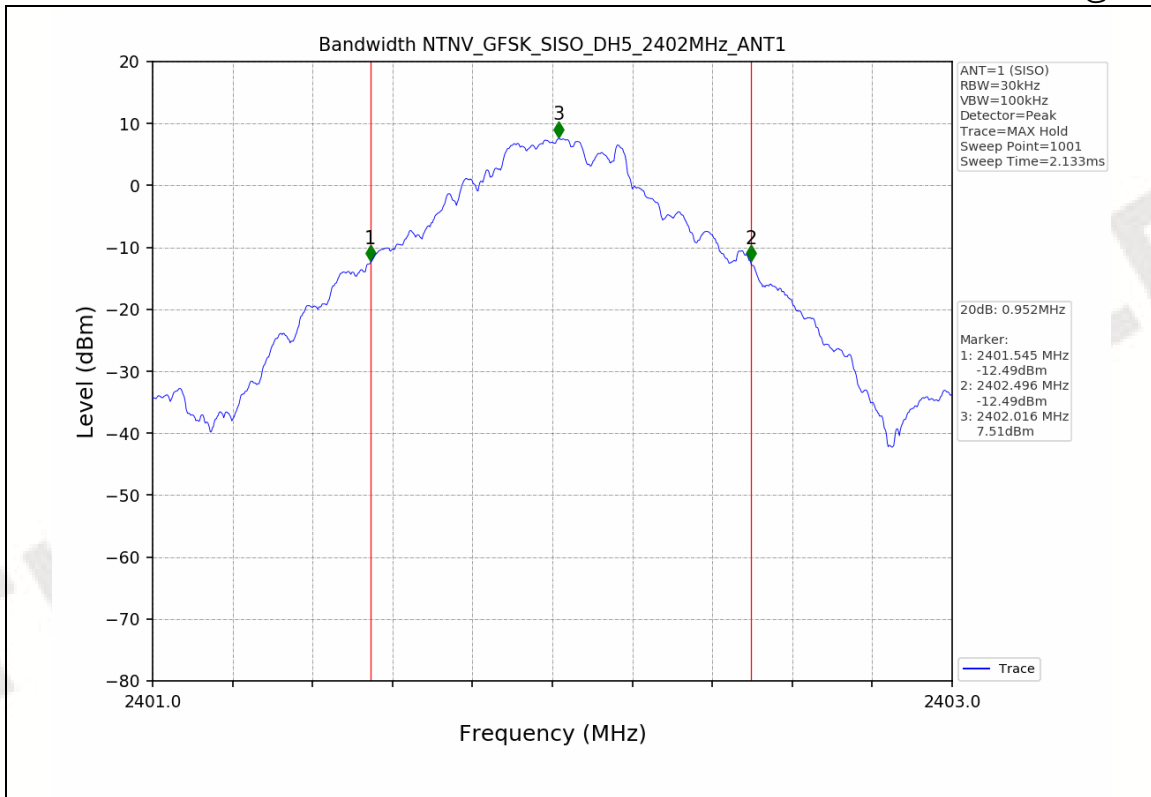
1. Bandwidth

1.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	20dB Bandwidth	Verdict
				Test Result (MHz)	
GFSK	2402	SISO	1	0.952	PASS
	2441	SISO	1	0.941	PASS
	2480	SISO	1	0.940	PASS
Pi/4DQPSK	2402	SISO	1	1.287	PASS
	2441	SISO	1	1.285	PASS
	2480	SISO	1	1.307	PASS
8DPSK	2402	SISO	1	1.302	PASS
	2441	SISO	1	1.300	PASS
	2480	SISO	1	1.294	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
GFSK	2402	SISO	1	0.852	Only for Report Use
	2441	SISO	1	0.857	Only for Report Use
	2480	SISO	1	0.848	Only for Report Use
Pi/4DQPSK	2402	SISO	1	1.186	Only for Report Use
	2441	SISO	1	1.182	Only for Report Use
	2480	SISO	1	1.188	Only for Report Use
8DPSK	2402	SISO	1	1.189	Only for Report Use
	2441	SISO	1	1.183	Only for Report Use
	2480	SISO	1	1.209	Only for Report Use

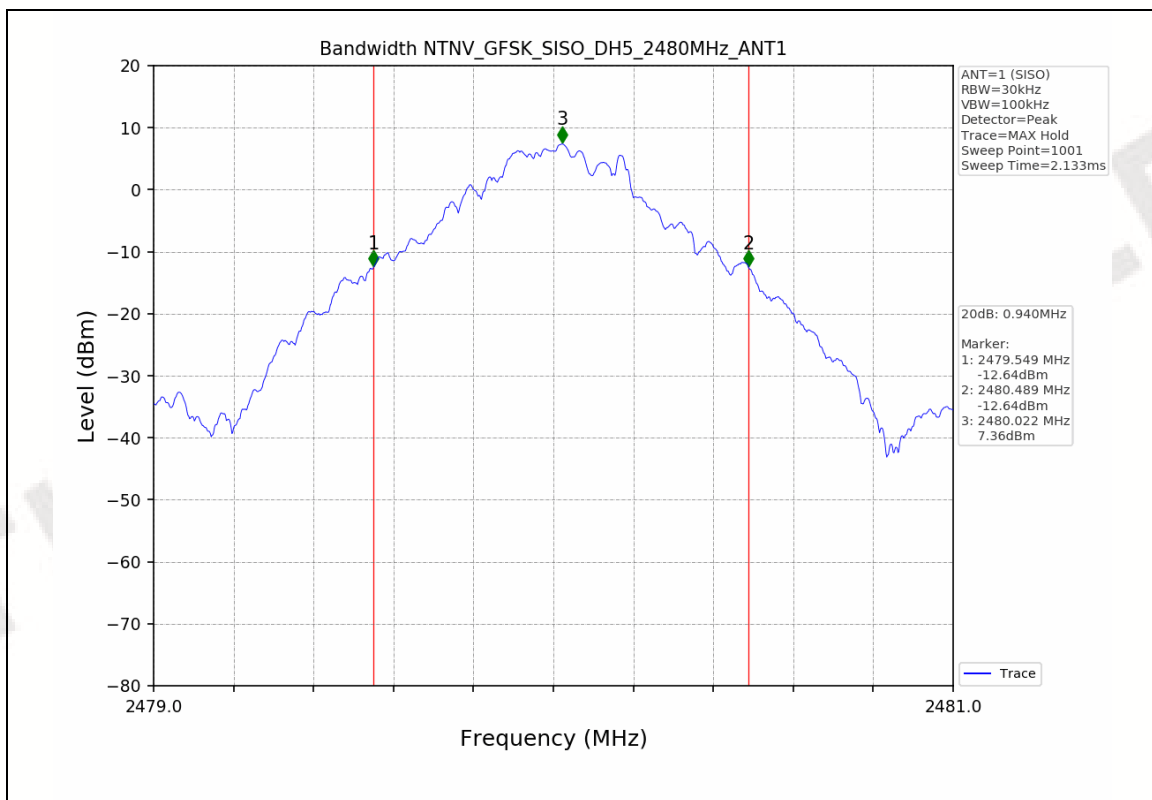
1.2 Test Graph - 20dB Bandwidth

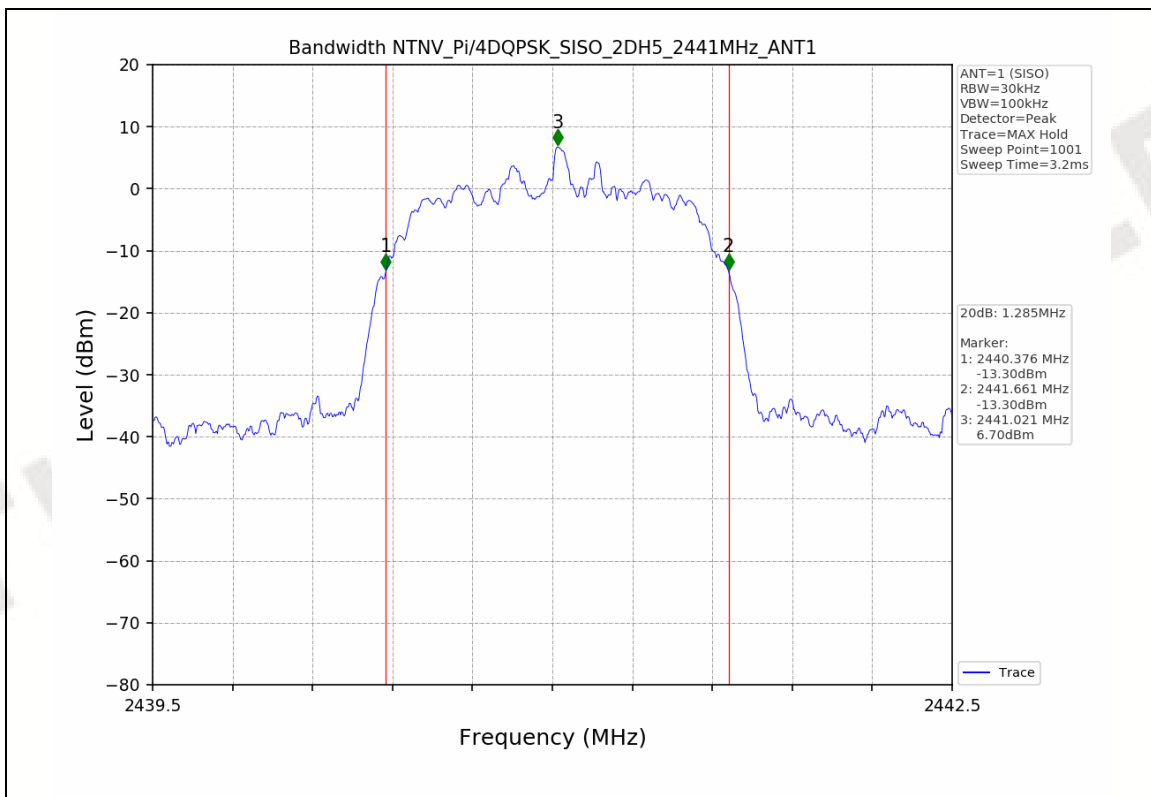
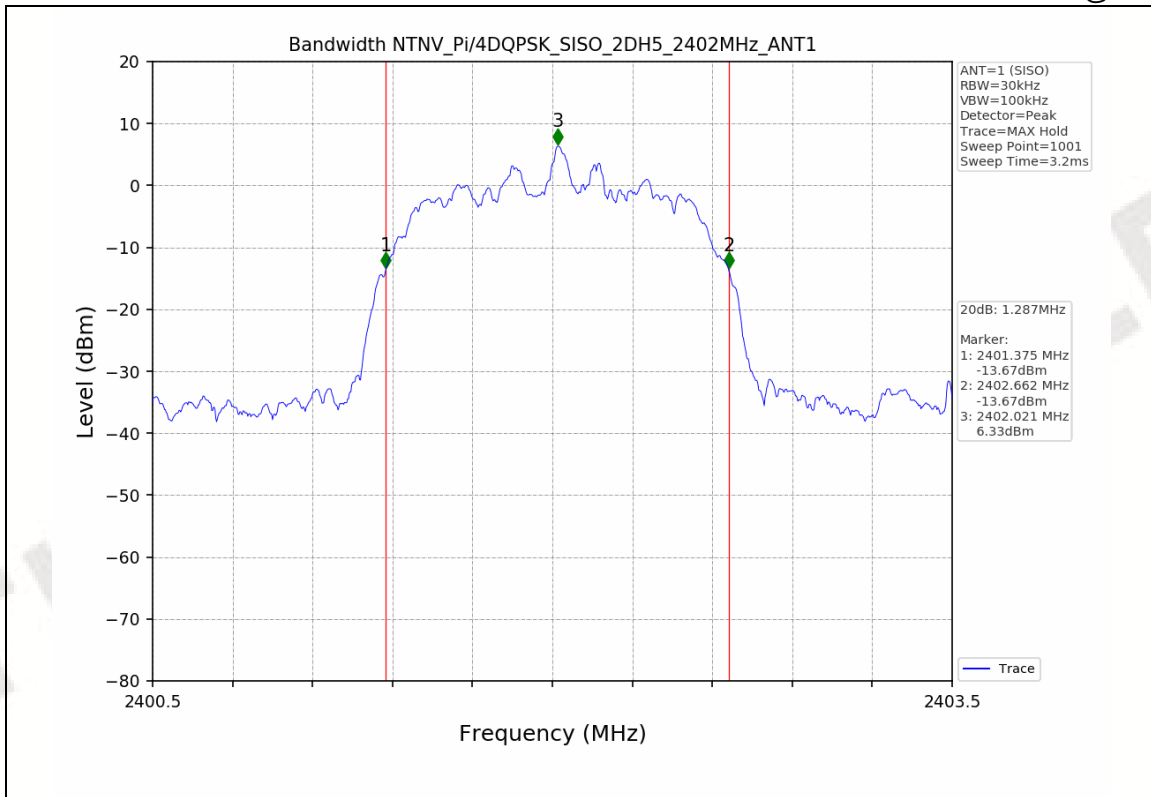




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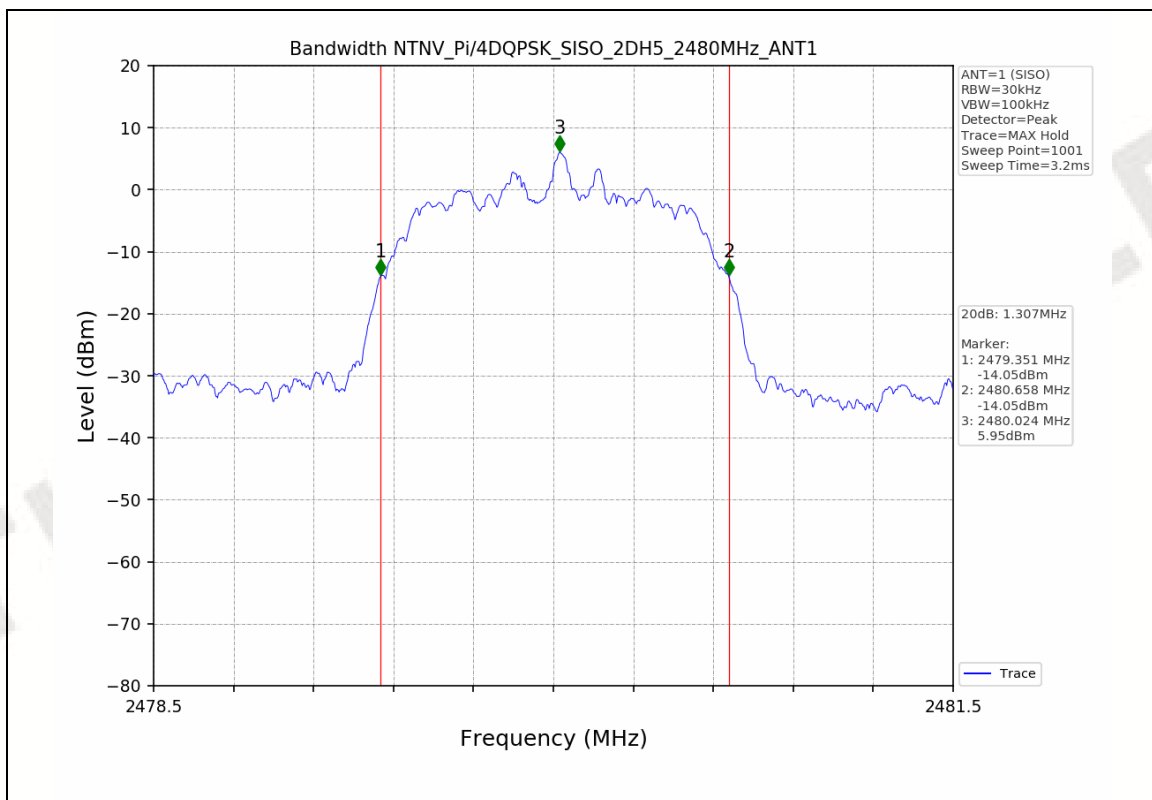


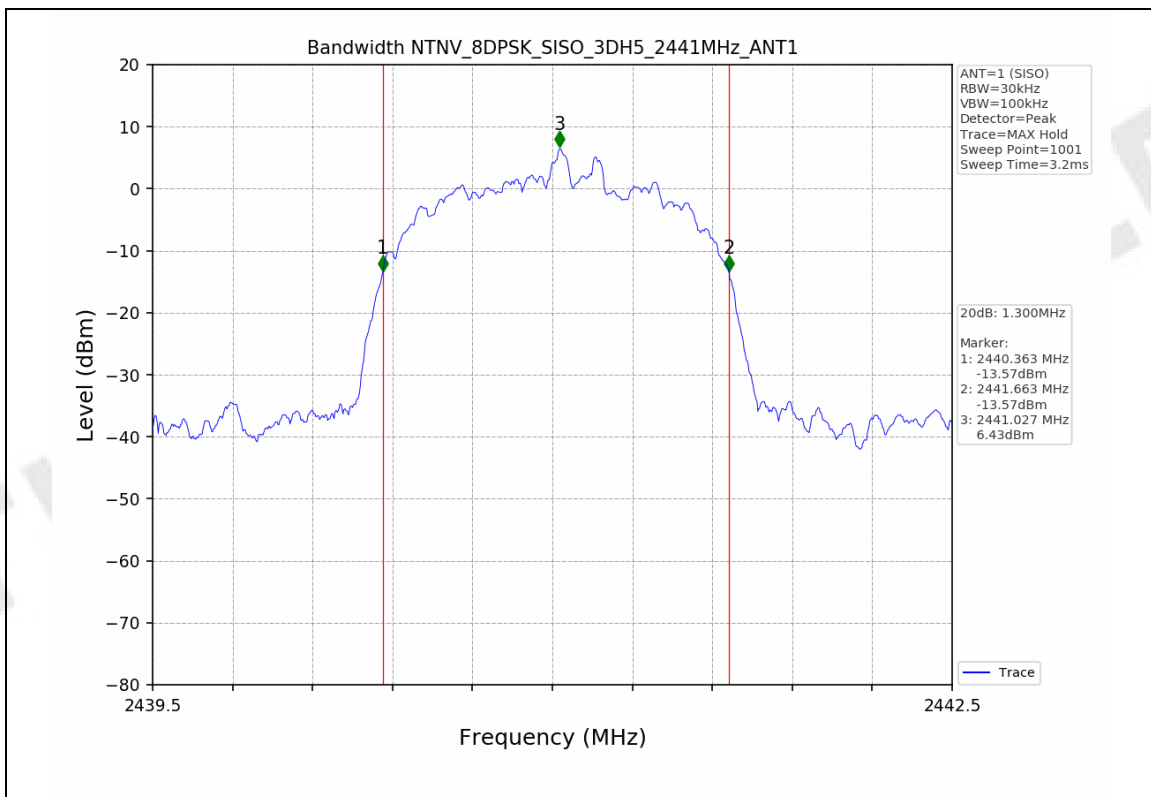
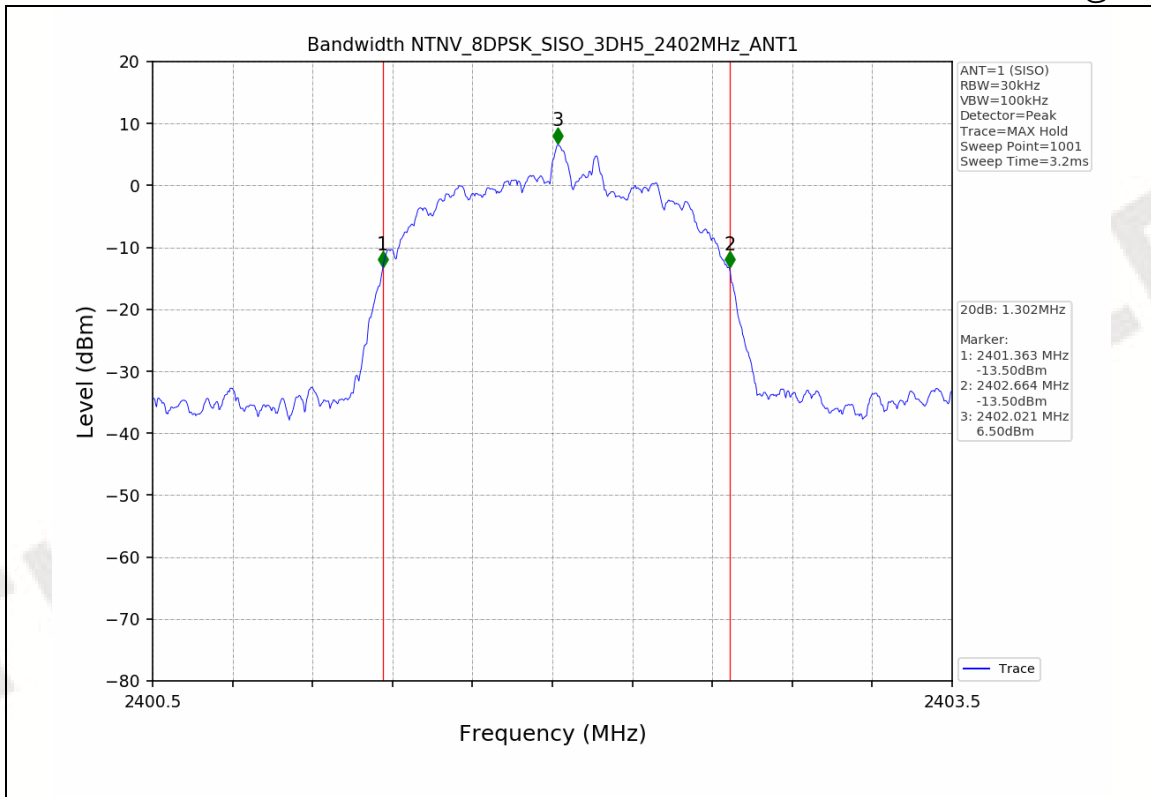




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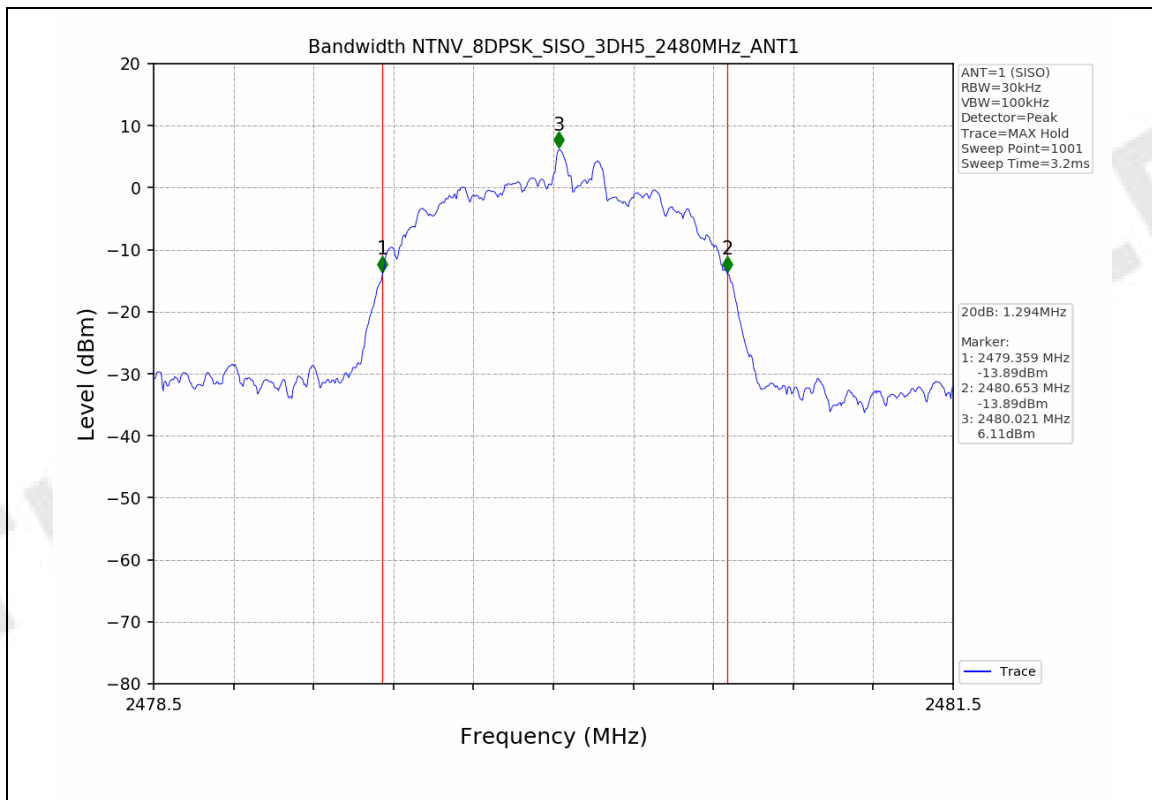




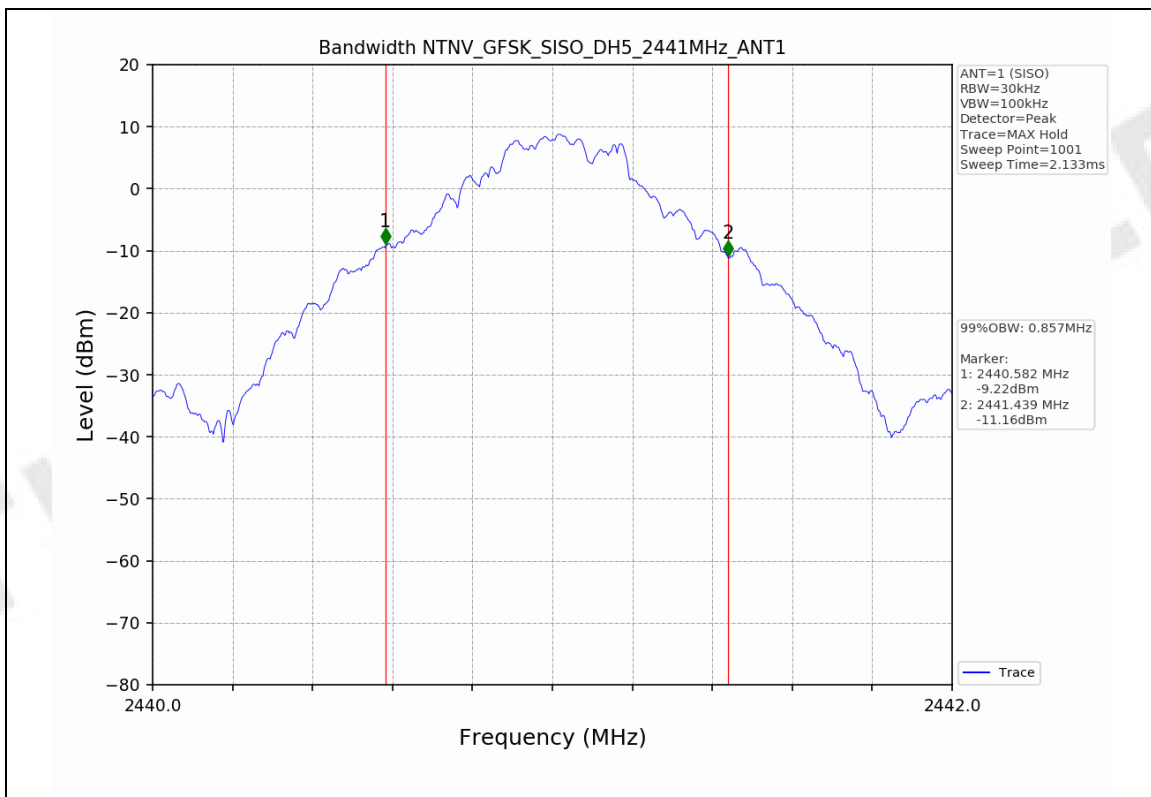
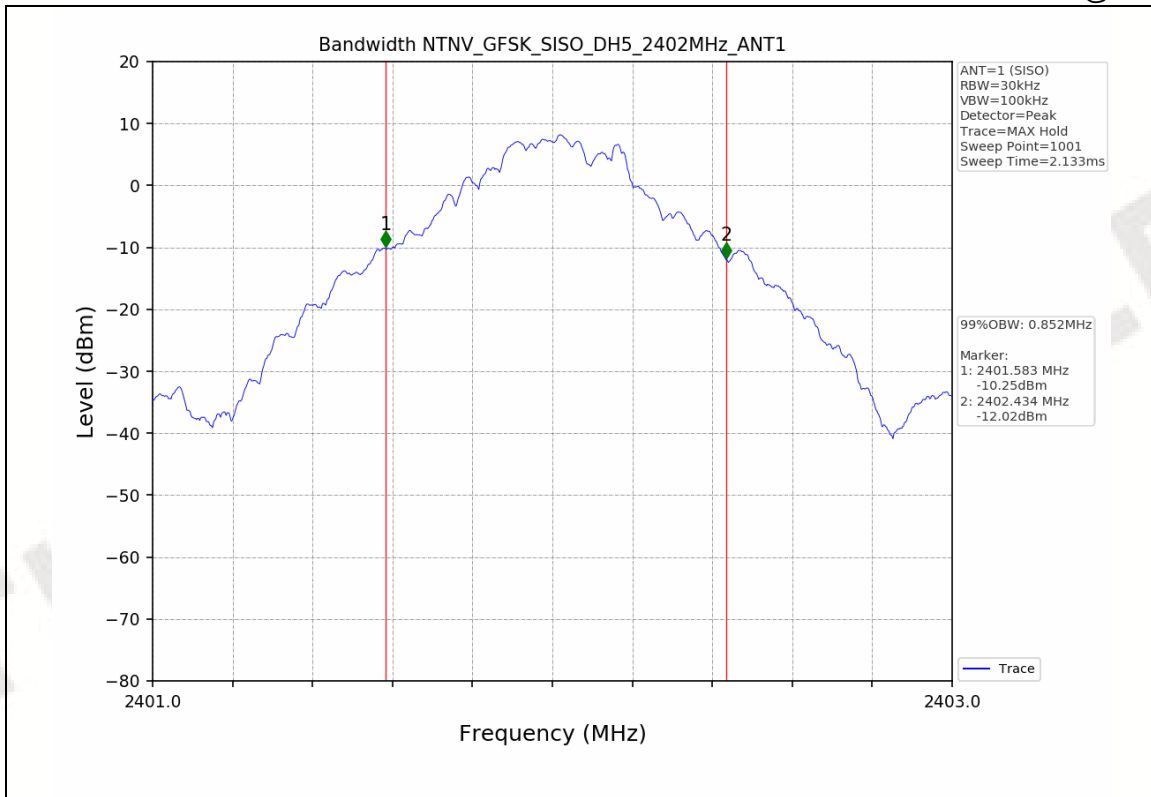


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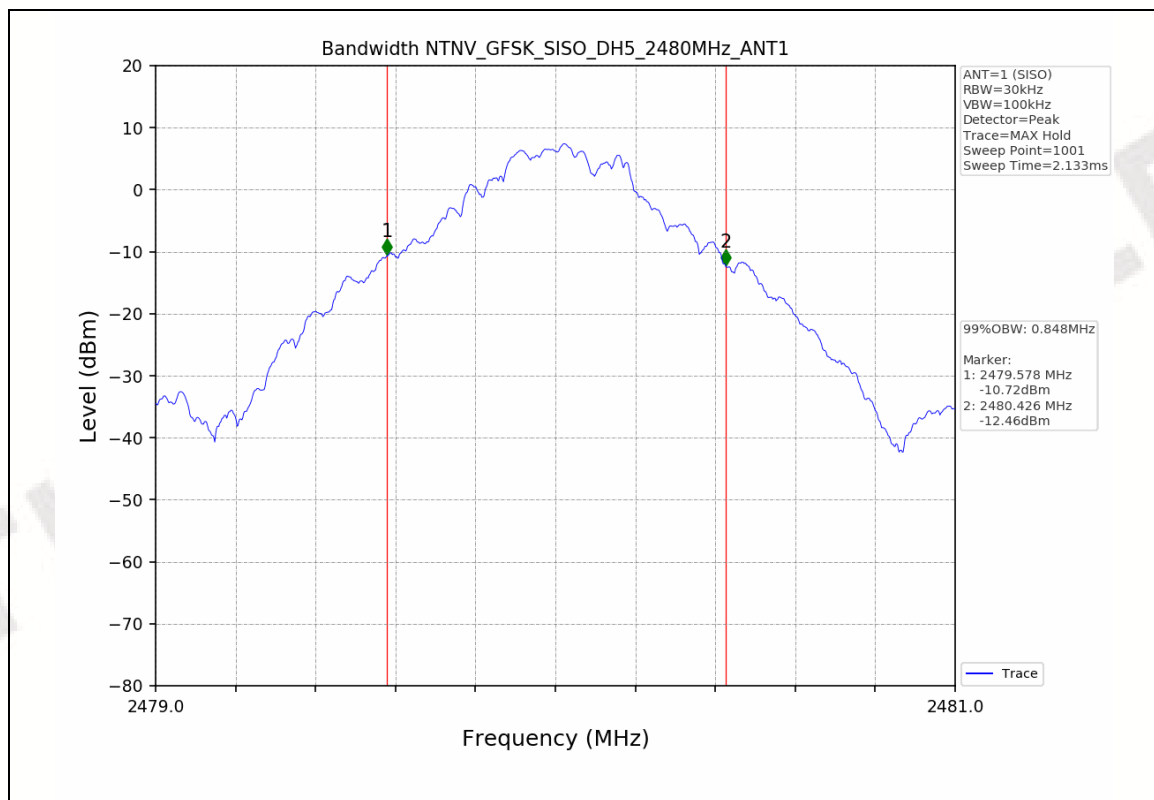
1.3 Test Graph - 99% Occupied Bandwidth

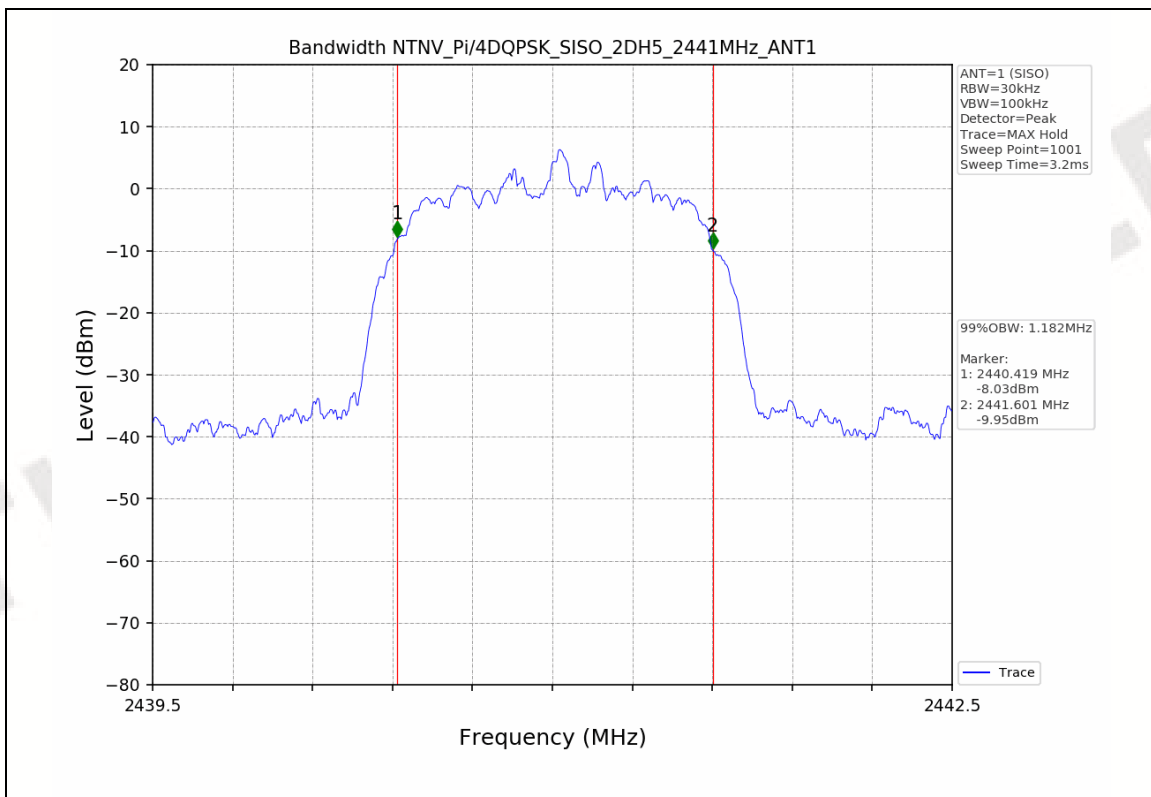
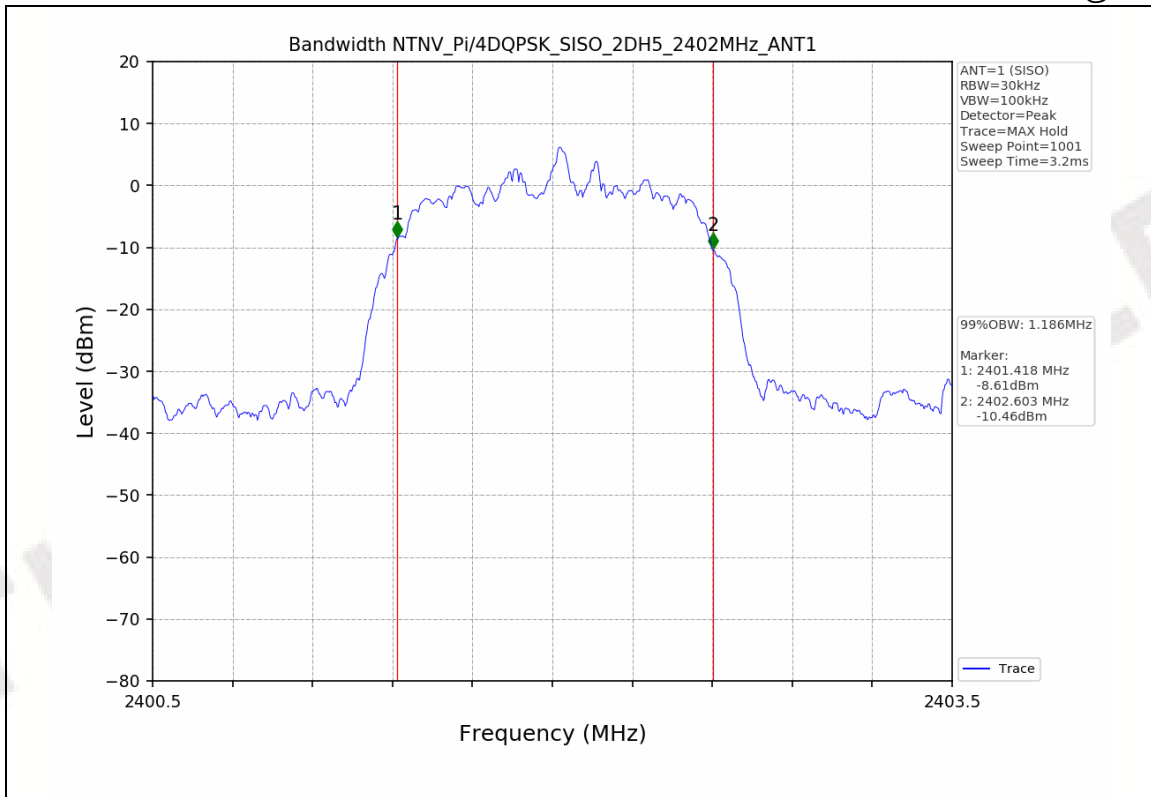


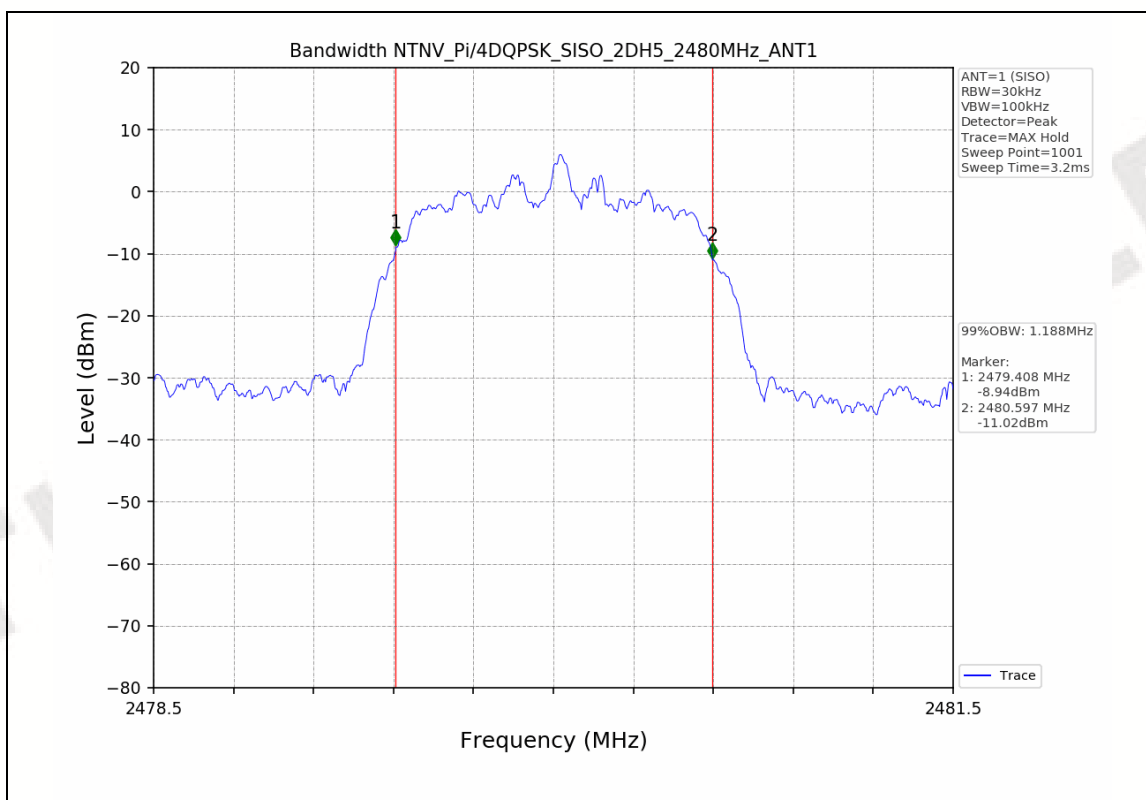


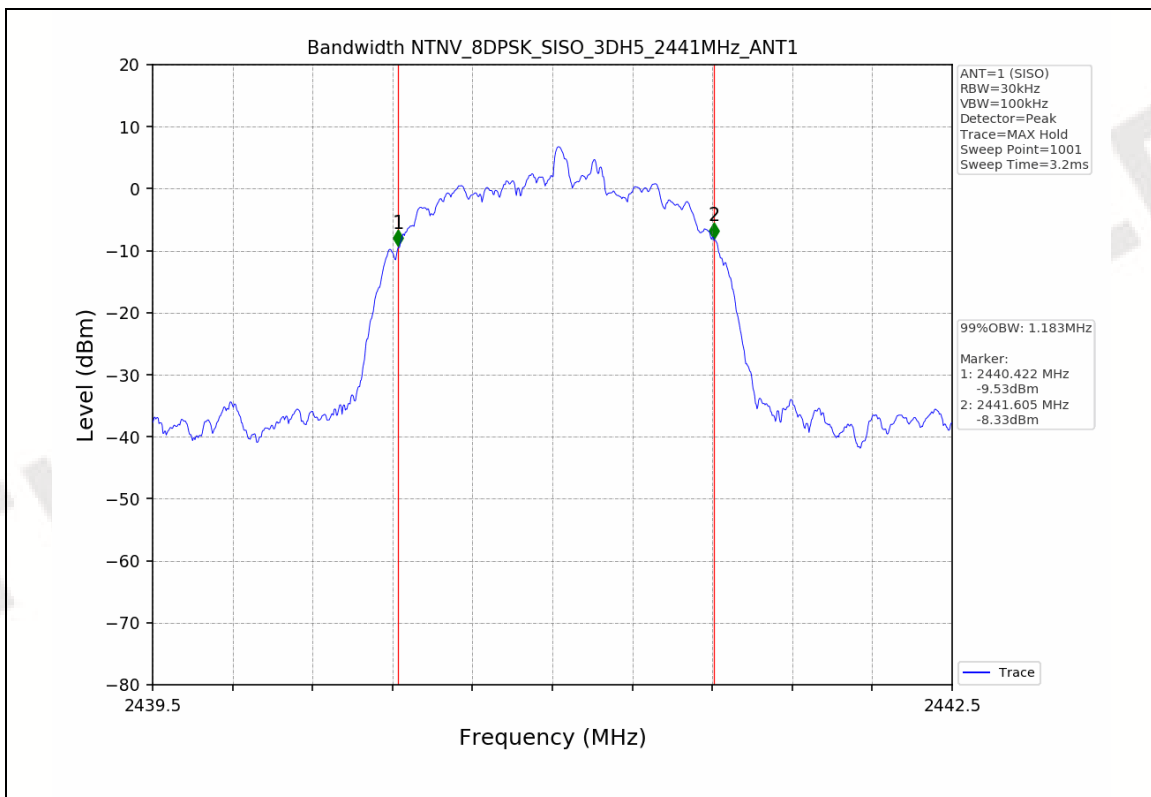
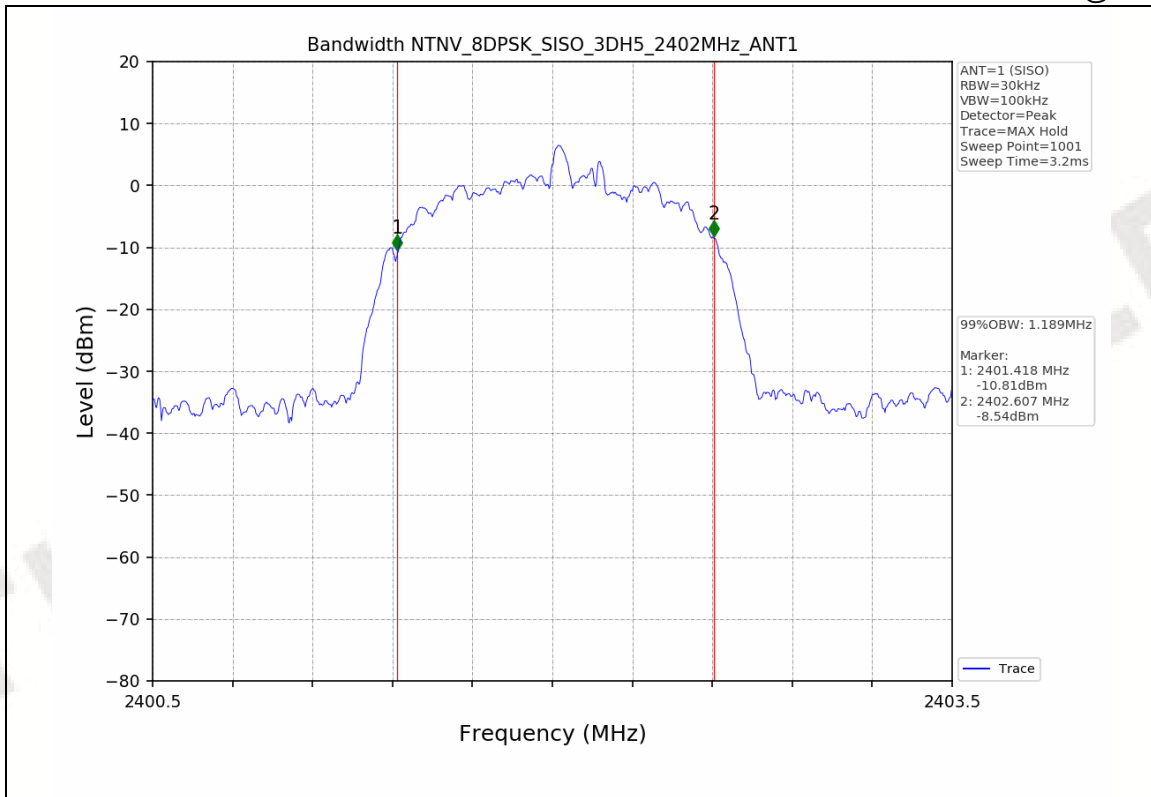
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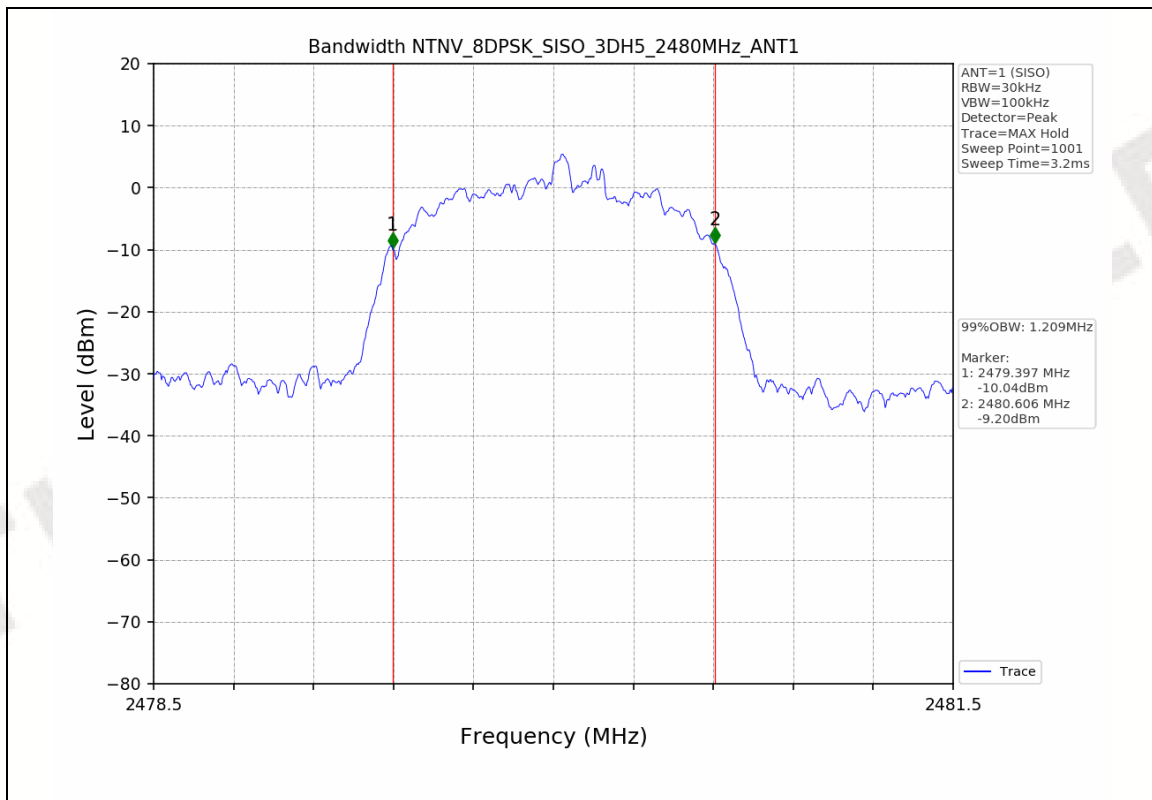
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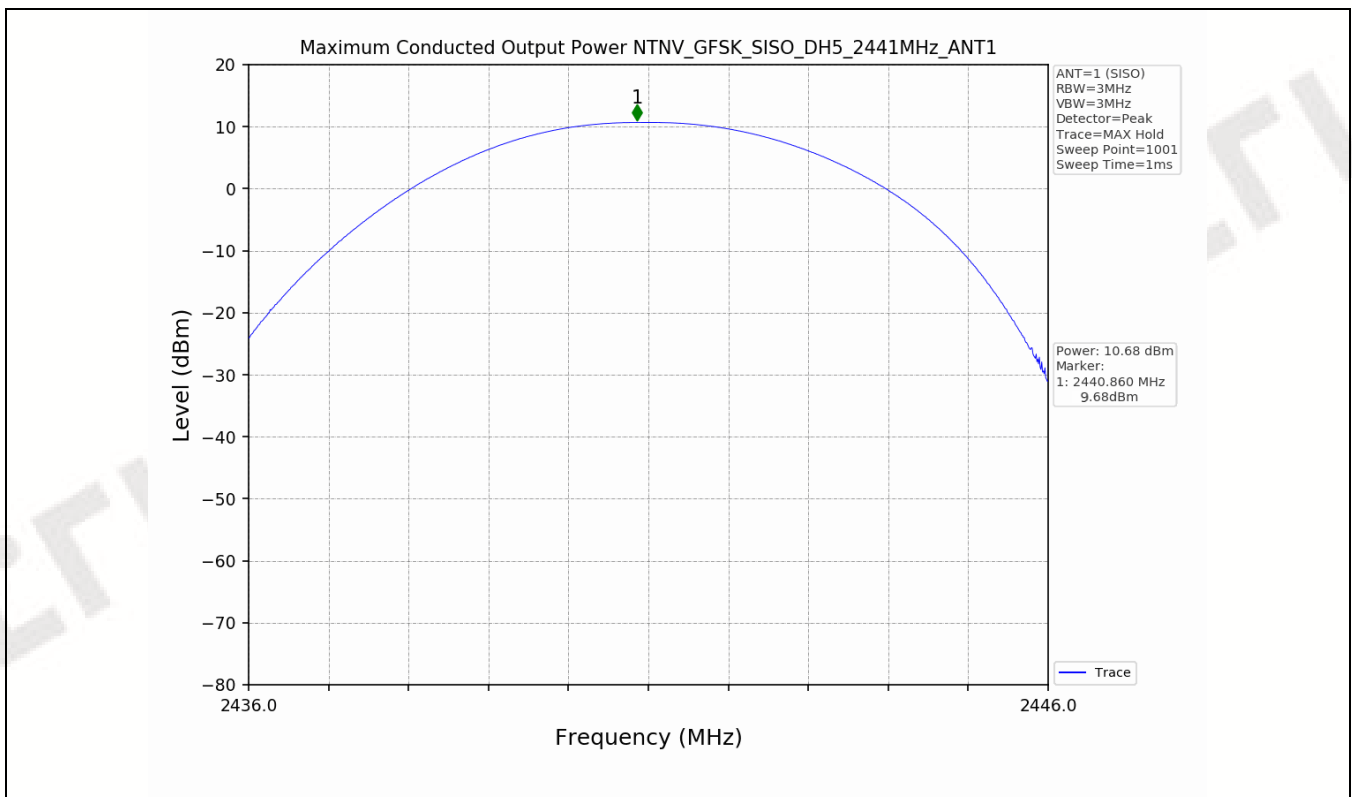
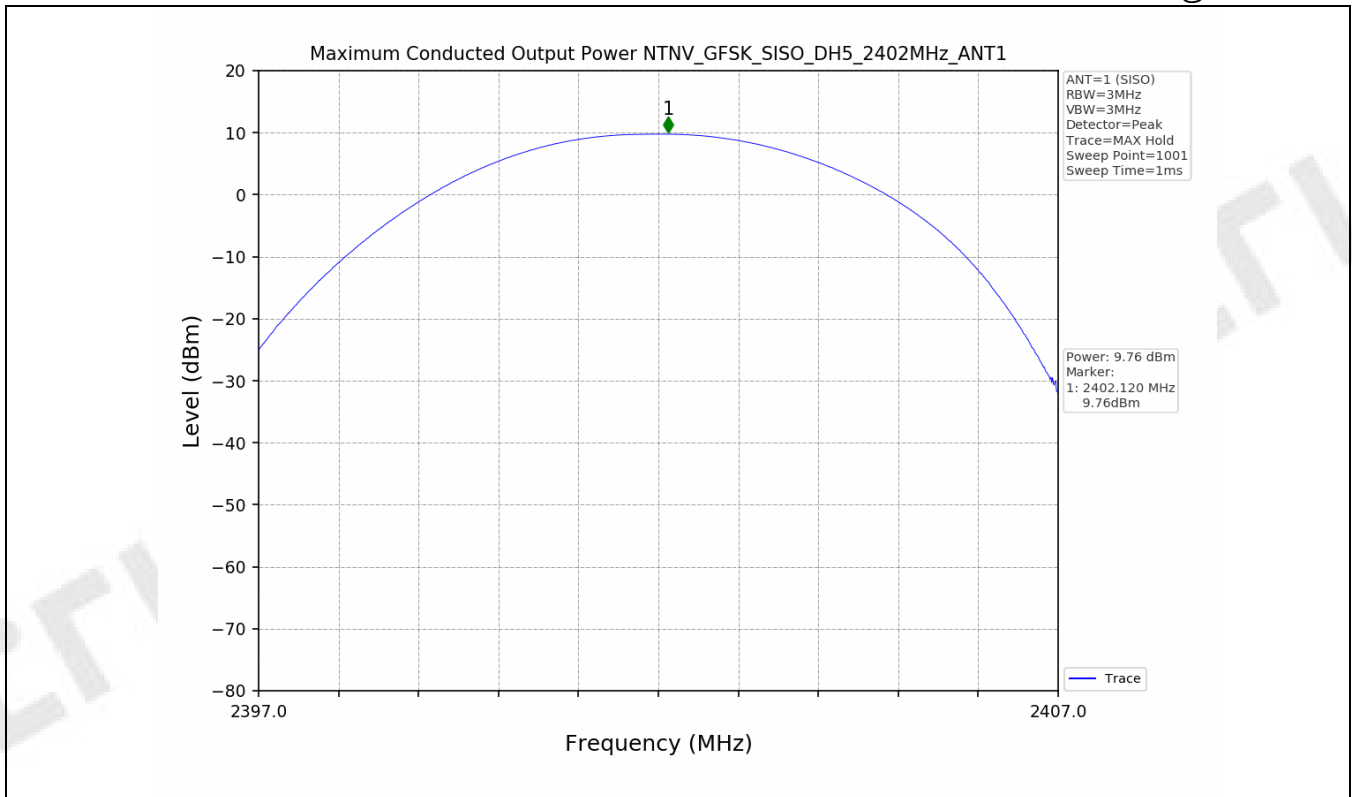


2. Maximum Conducted Output Power

2.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	9.76	30	PASS
	2441	SISO	9.68	30	PASS
	2480	SISO	9.05	30	PASS
Pi/4DQPSK	2402	SISO	9.40	20.97	PASS
	2441	SISO	9.10	20.97	PASS
	2480	SISO	8.83	20.97	PASS
8DPSK	2402	SISO	9.64	20.97	PASS
	2441	SISO	9.40	20.97	PASS
	2480	SISO	9.01	20.97	PASS

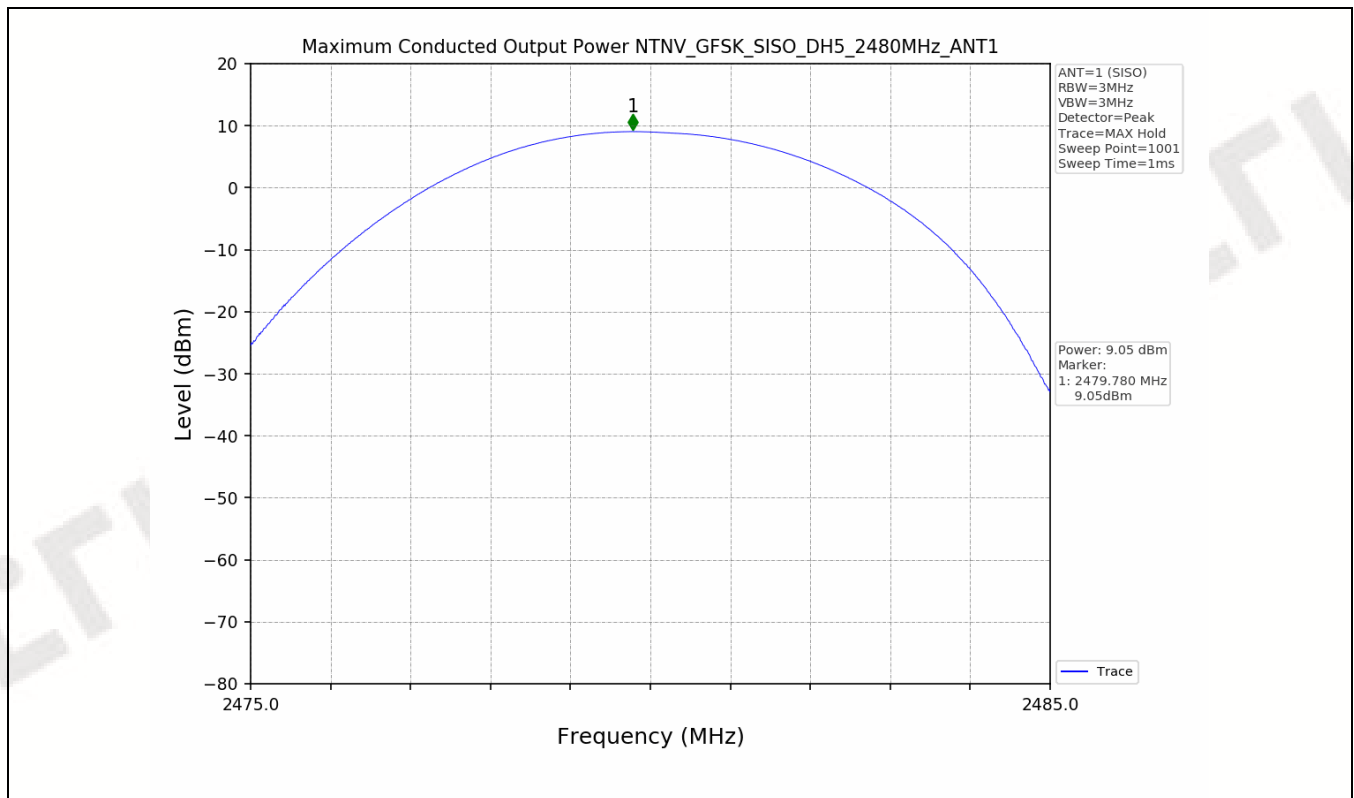
2.2 Test Graph

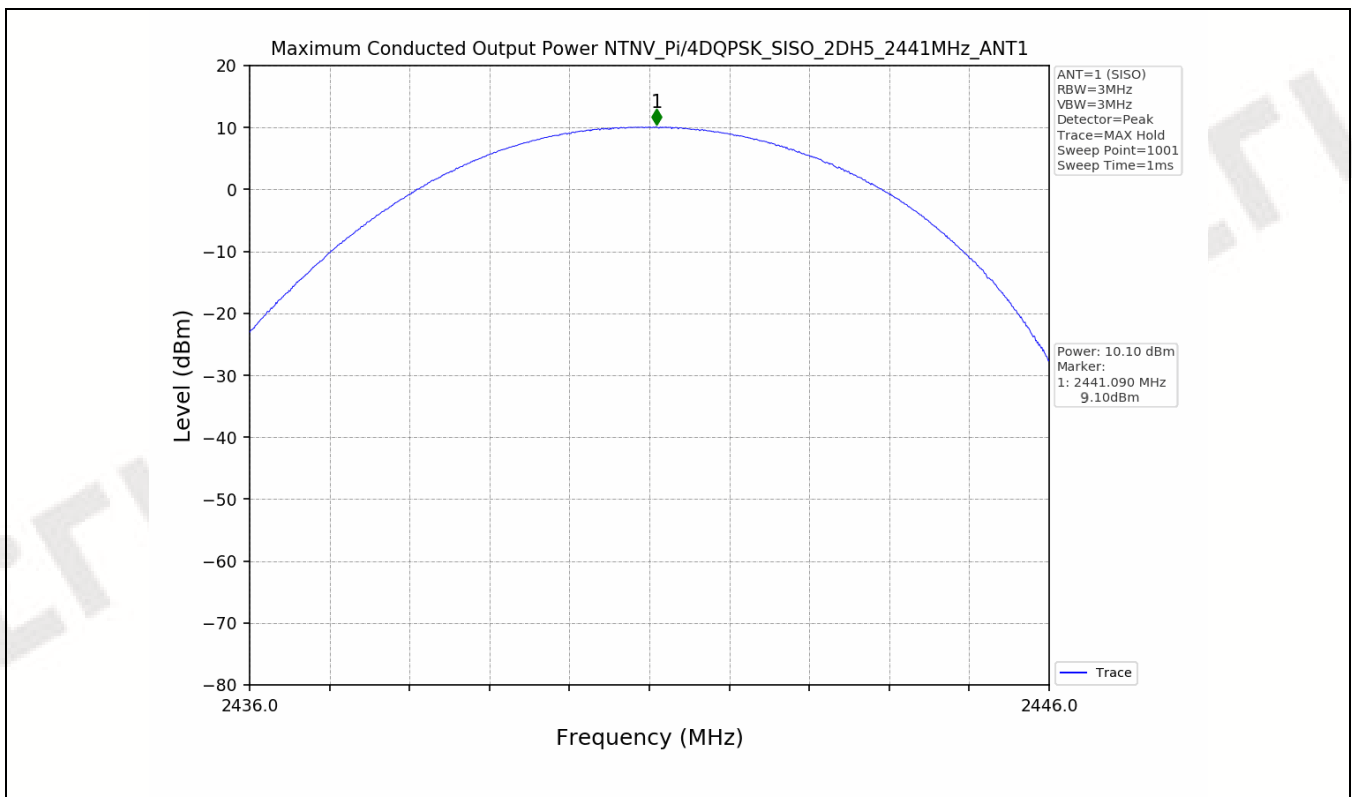
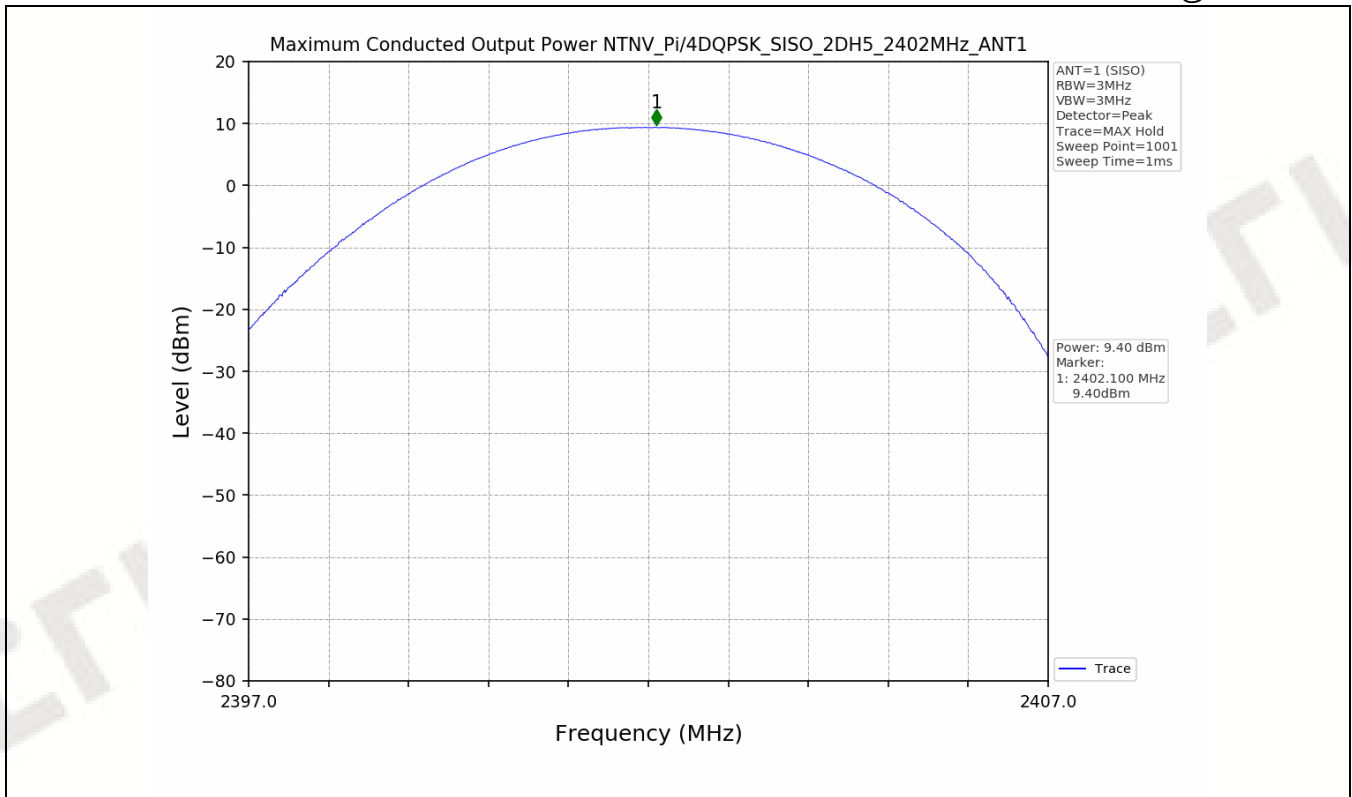




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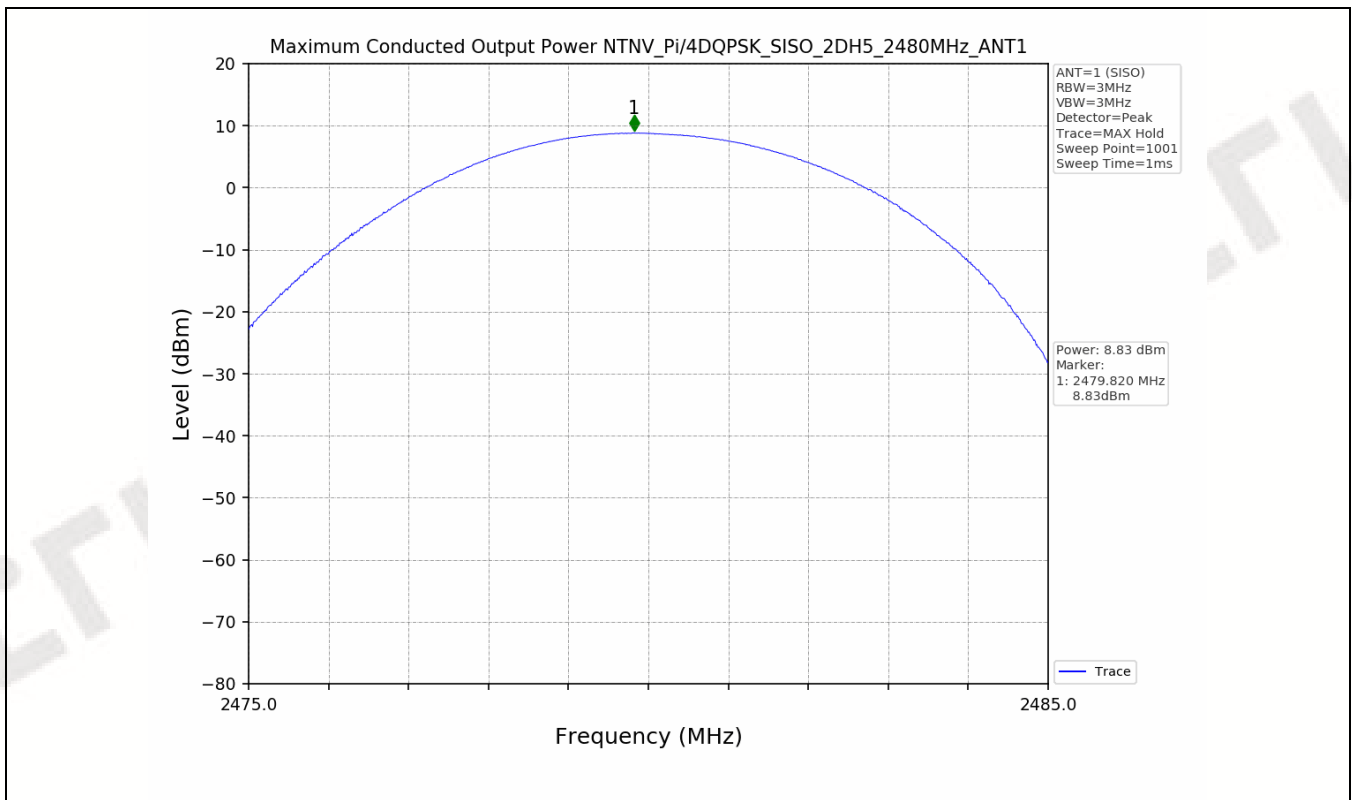


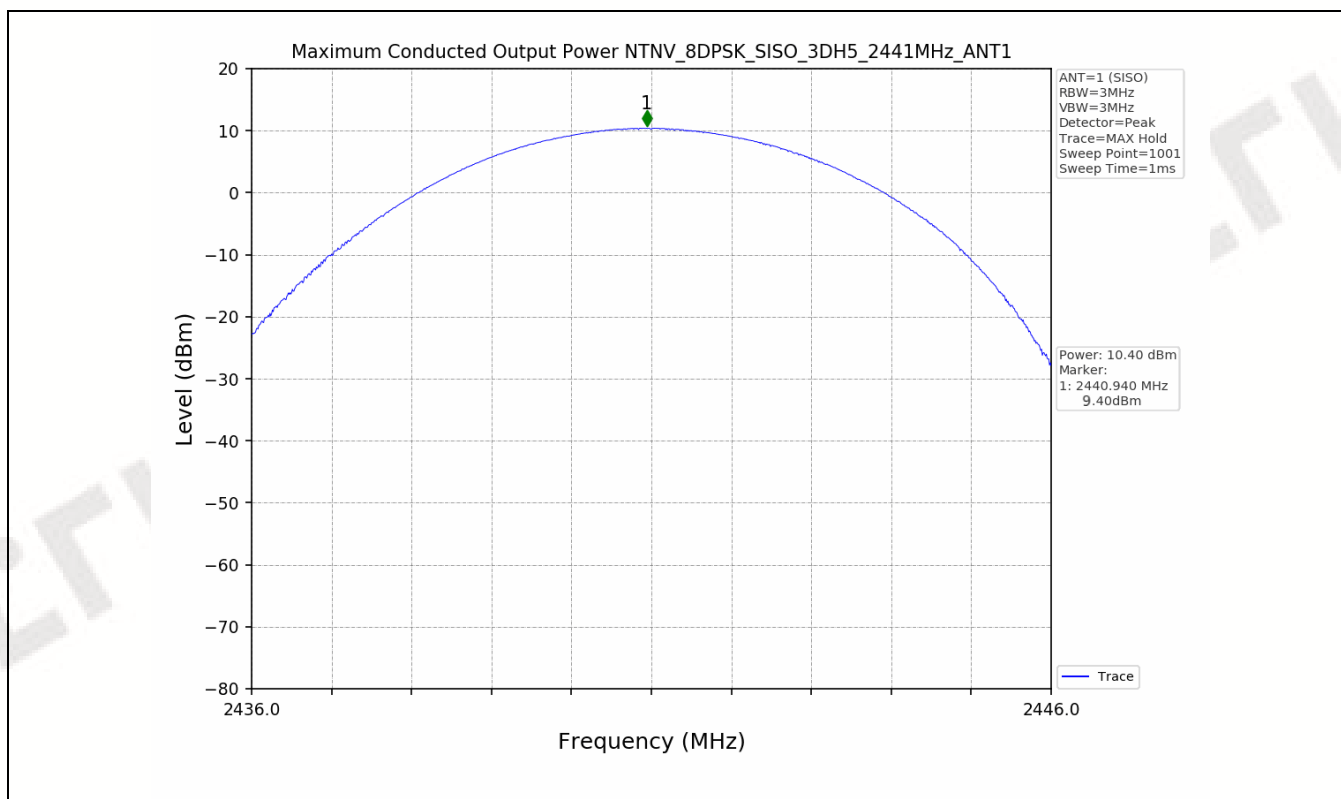
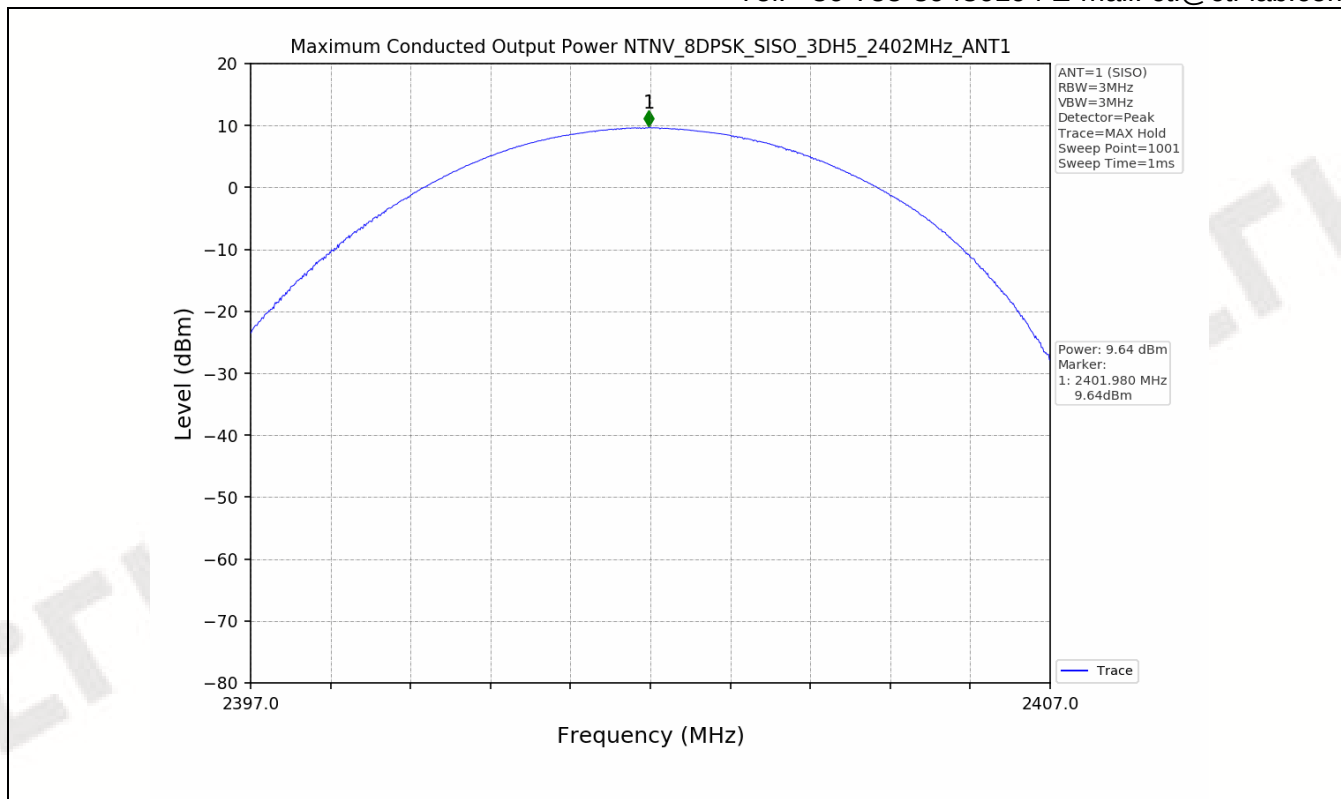




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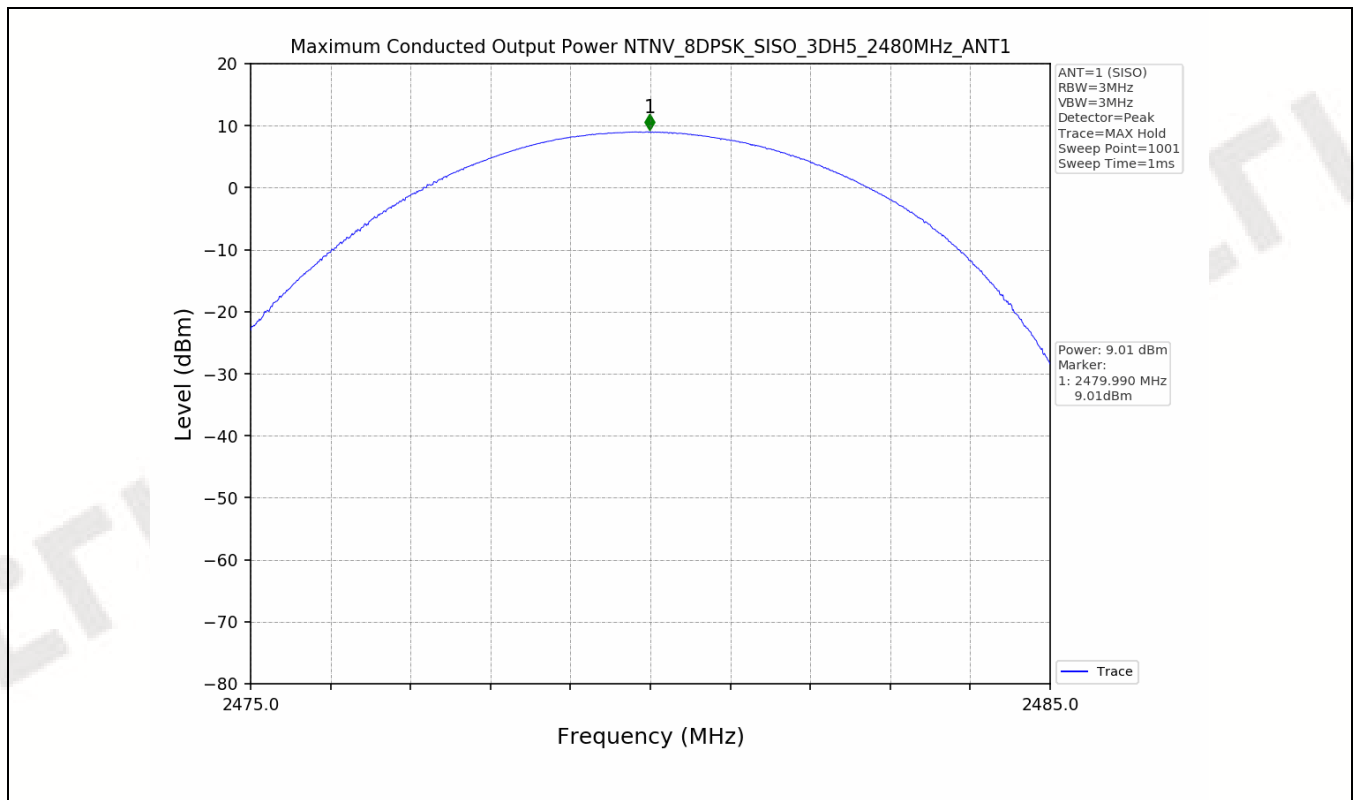






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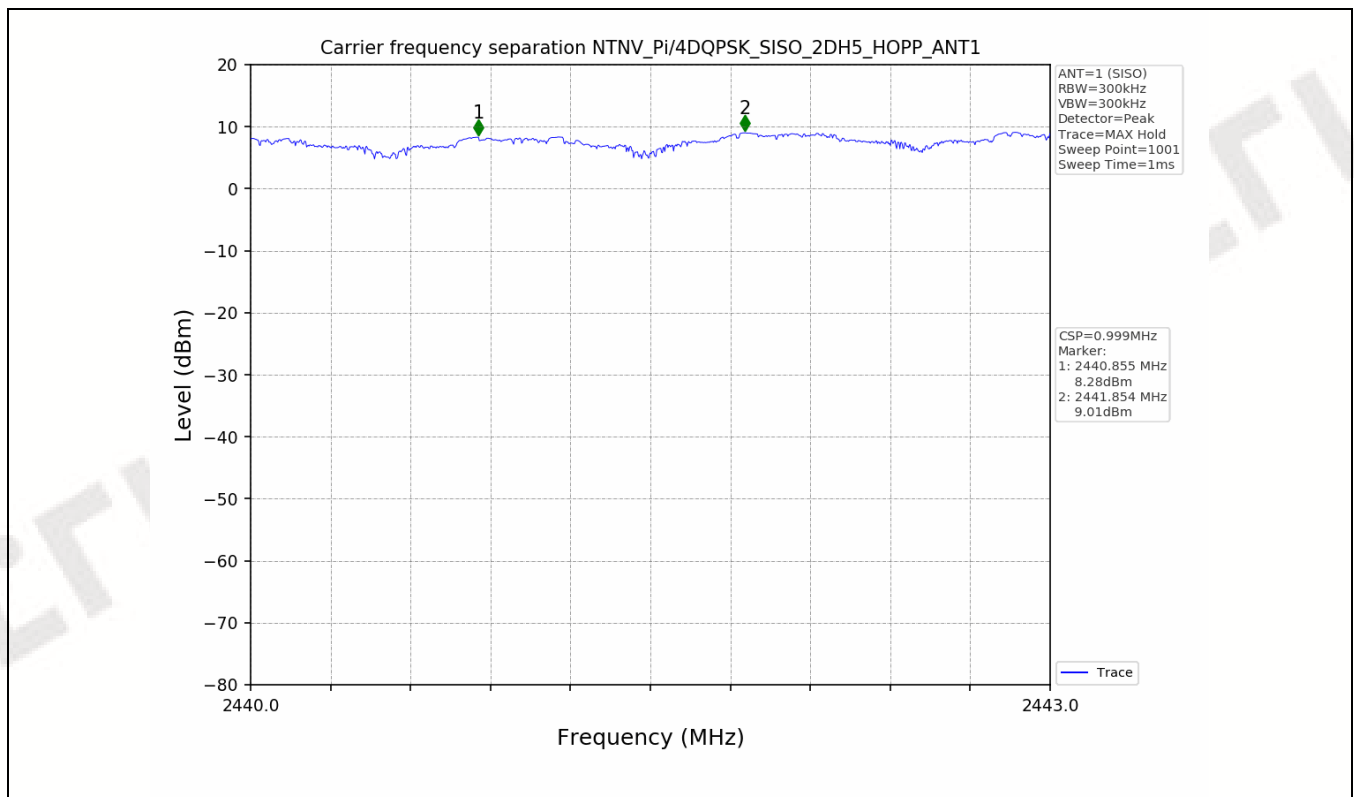
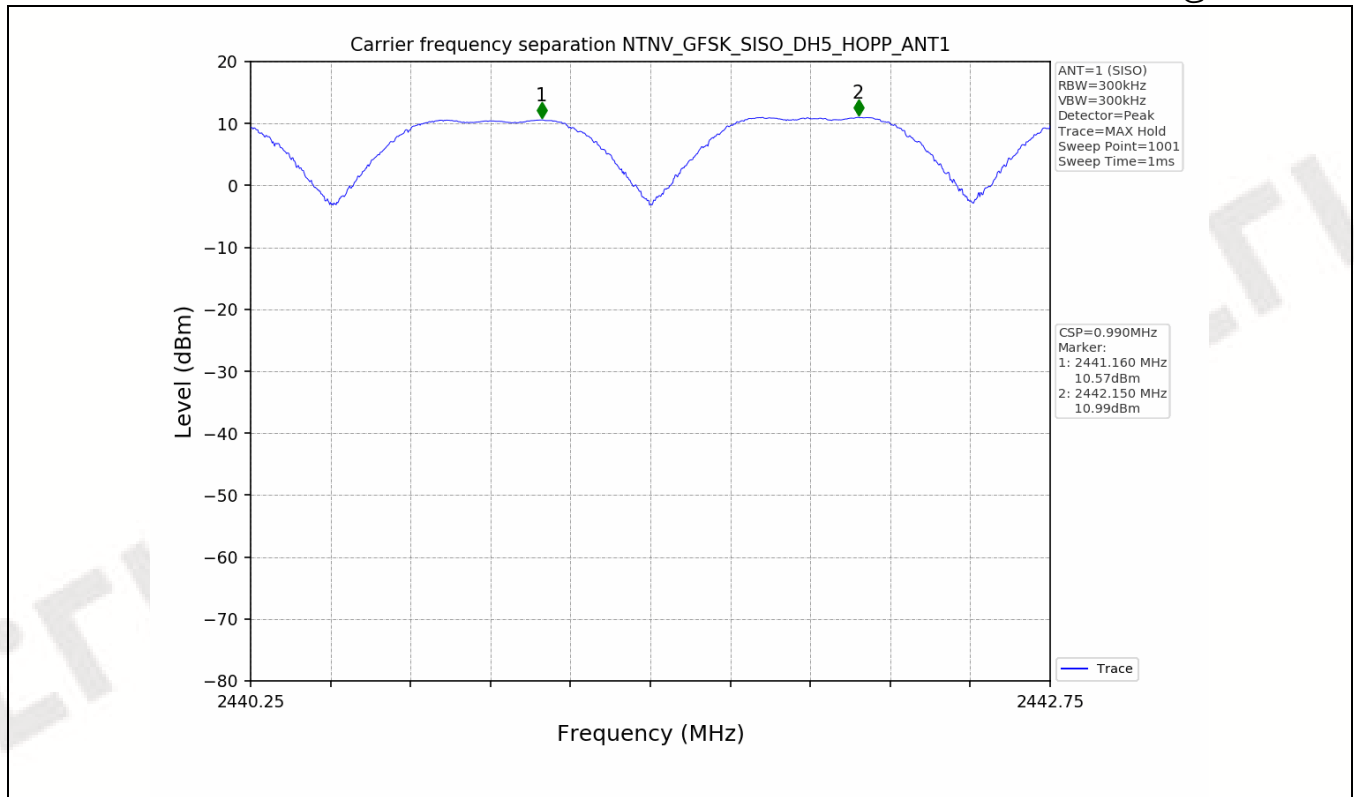


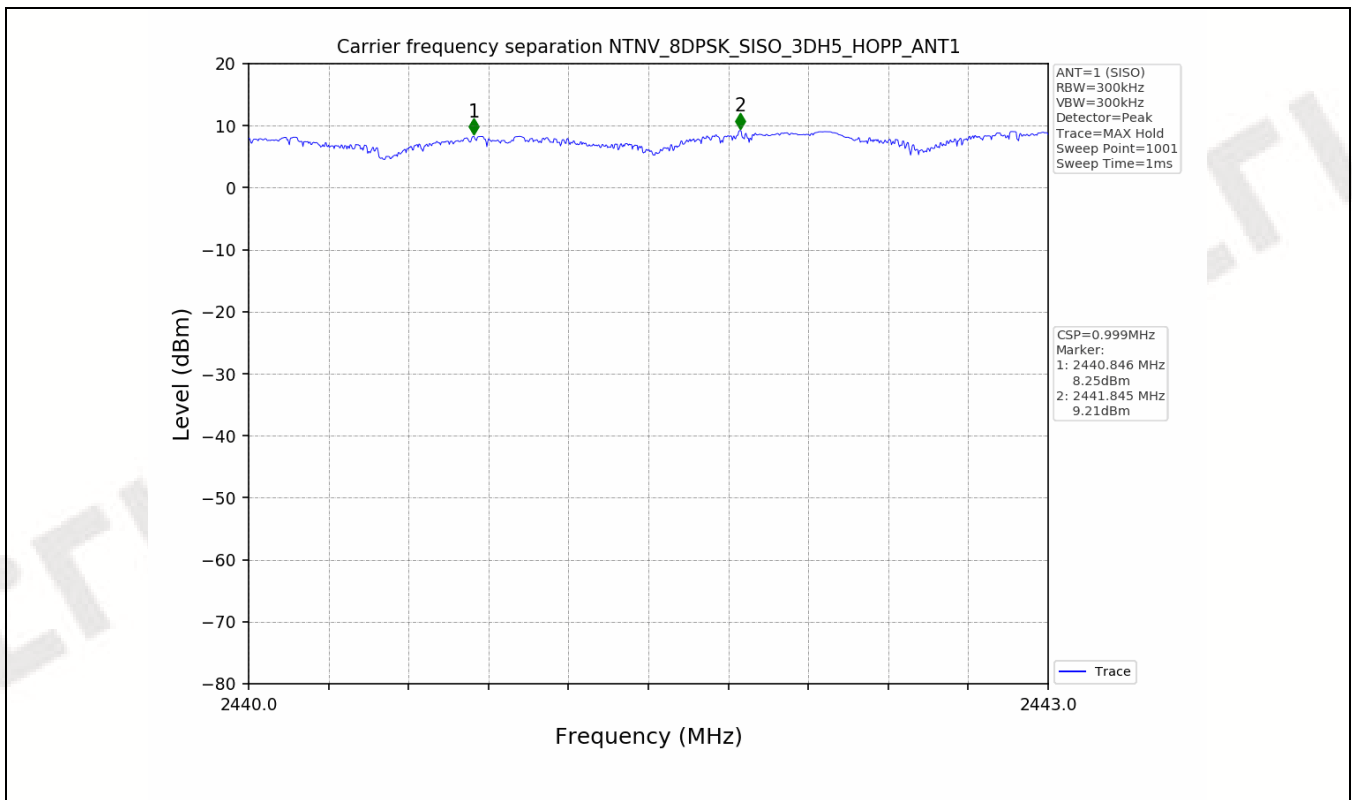
3. Carrier frequency separation

3.1 Test Result

Test Mode	TX Type	ANT No.	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limits (MHz)	Verdict
GFSK	SISO	1	0.990	0.952	≥ 0.952	PASS
Pi/4DQPSK	SISO	1	0.999	1.307	≥ 0.871	PASS
8DPSK	SISO	1	0.999	1.302	≥ 0.868	PASS

3.2 Test Graph



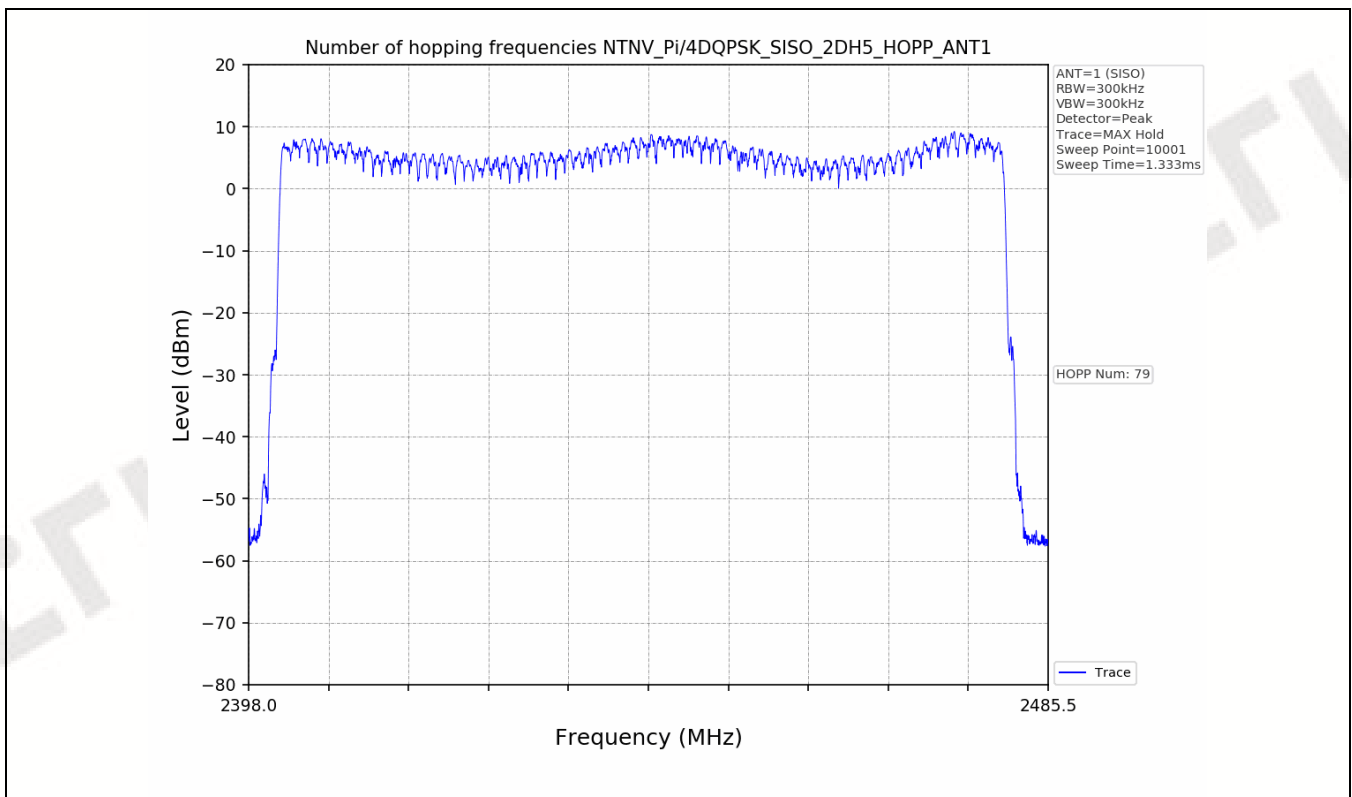
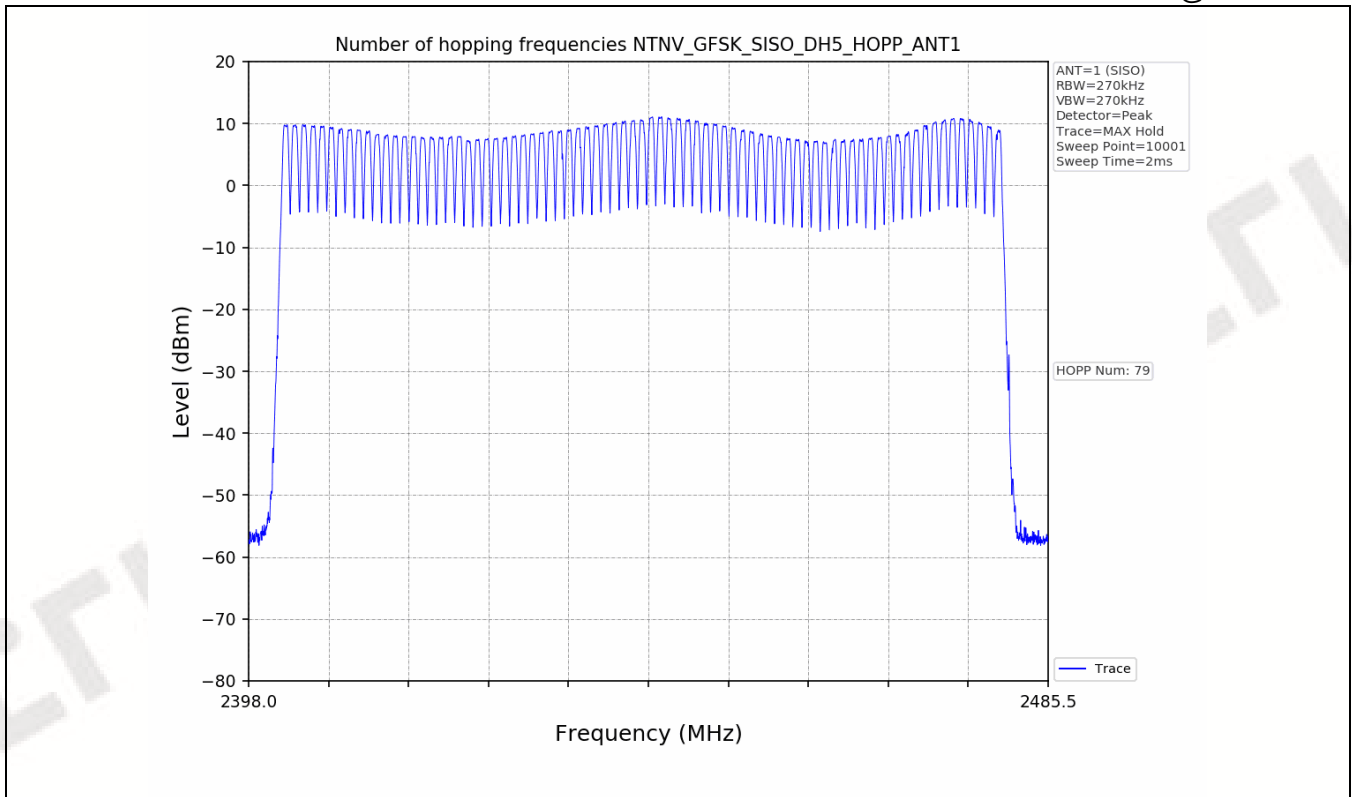


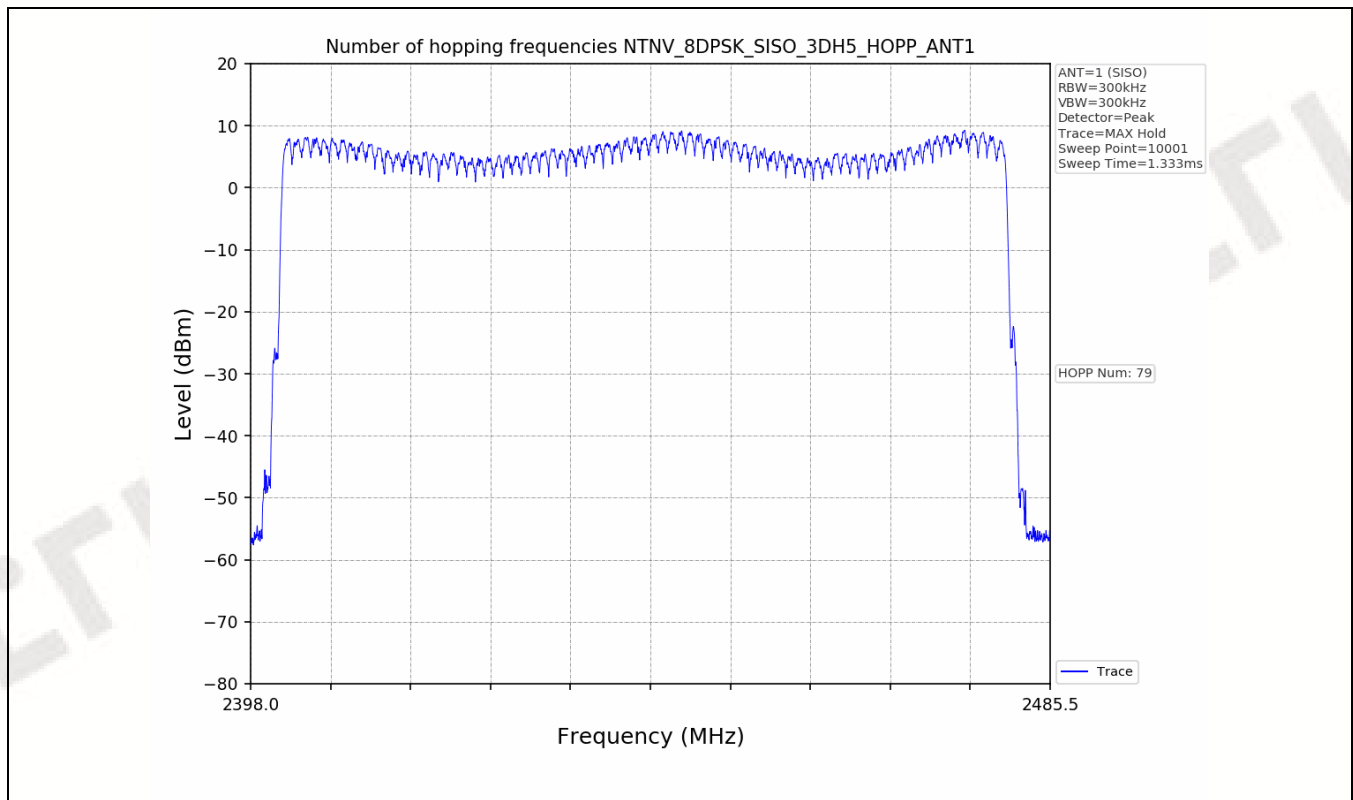
4. Number of hopping frequencies

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



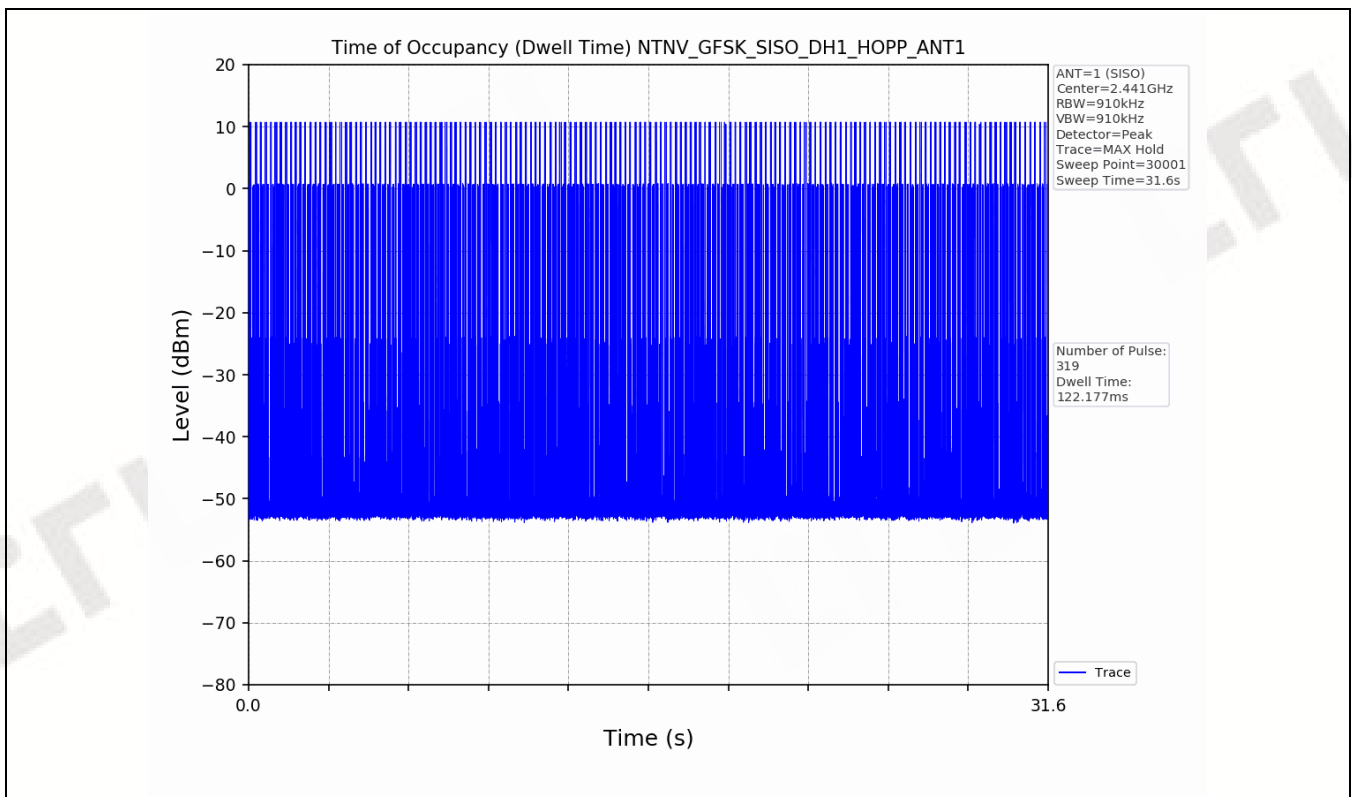
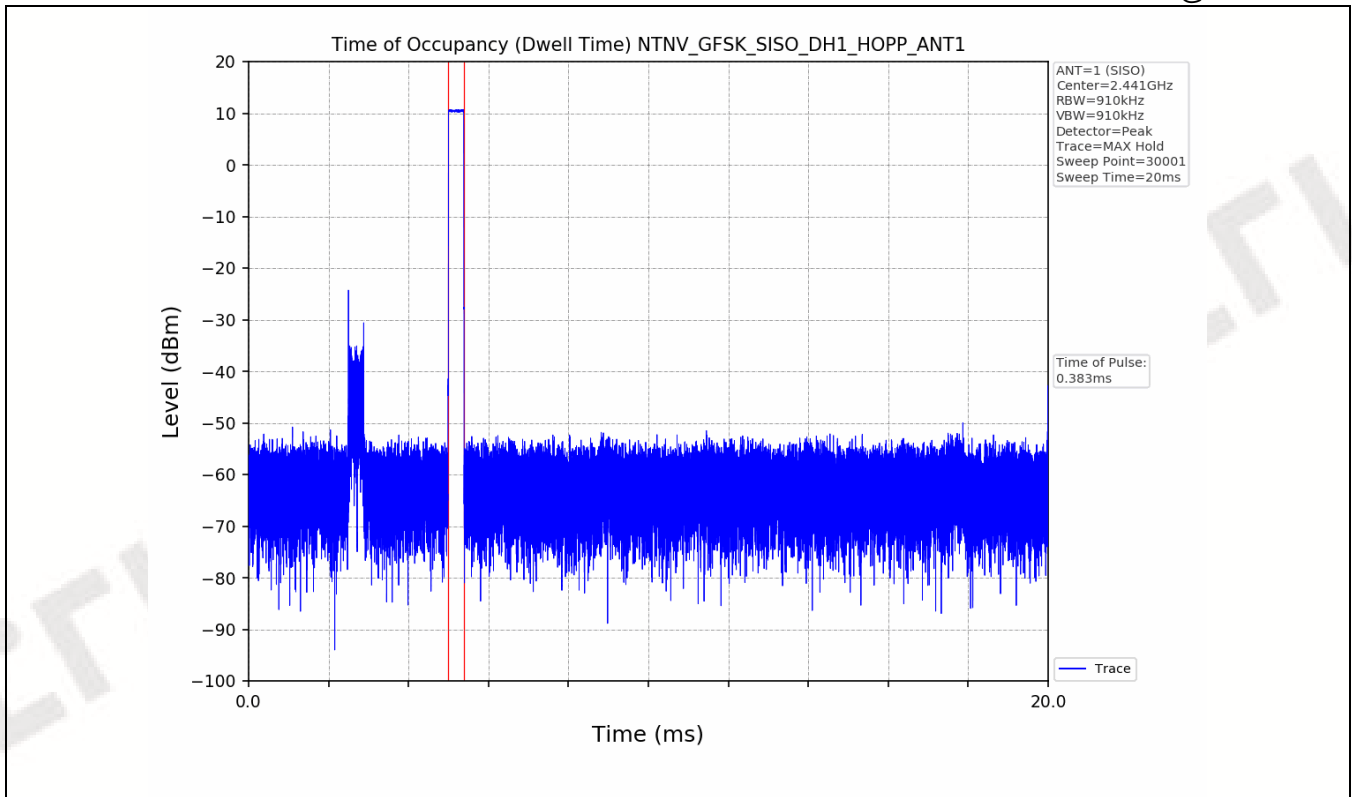


5. Time of Occupancy (Dwell Time)

5.1 Test Result

Test Mode	Packet Type	TX Type	ANT No.	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limits (ms)	Verdict
GFSK	DH1	SISO	1	0.383	31.6	319	122.177	≤400	PASS
	DH3	SISO	1	1.640	31.6	157	257.480	≤400	PASS
	DH5	SISO	1	2.885	31.6	115	331.775	≤400	PASS
Pi/4DQ PSK	2DH1	SISO	1	0.389	31.6	320	124.480	≤400	PASS
	2DH3	SISO	1	1.641	31.6	153	251.073	≤400	PASS
	2DH5	SISO	1	2.888	31.6	102	294.576	≤400	PASS
8DPSK	3DH1	SISO	1	0.389	31.6	318	123.702	≤400	PASS
	3DH3	SISO	1	1.641	31.6	158	259.278	≤400	PASS
	3DH5	SISO	1	2.891	31.6	108	312.228	≤400	PASS

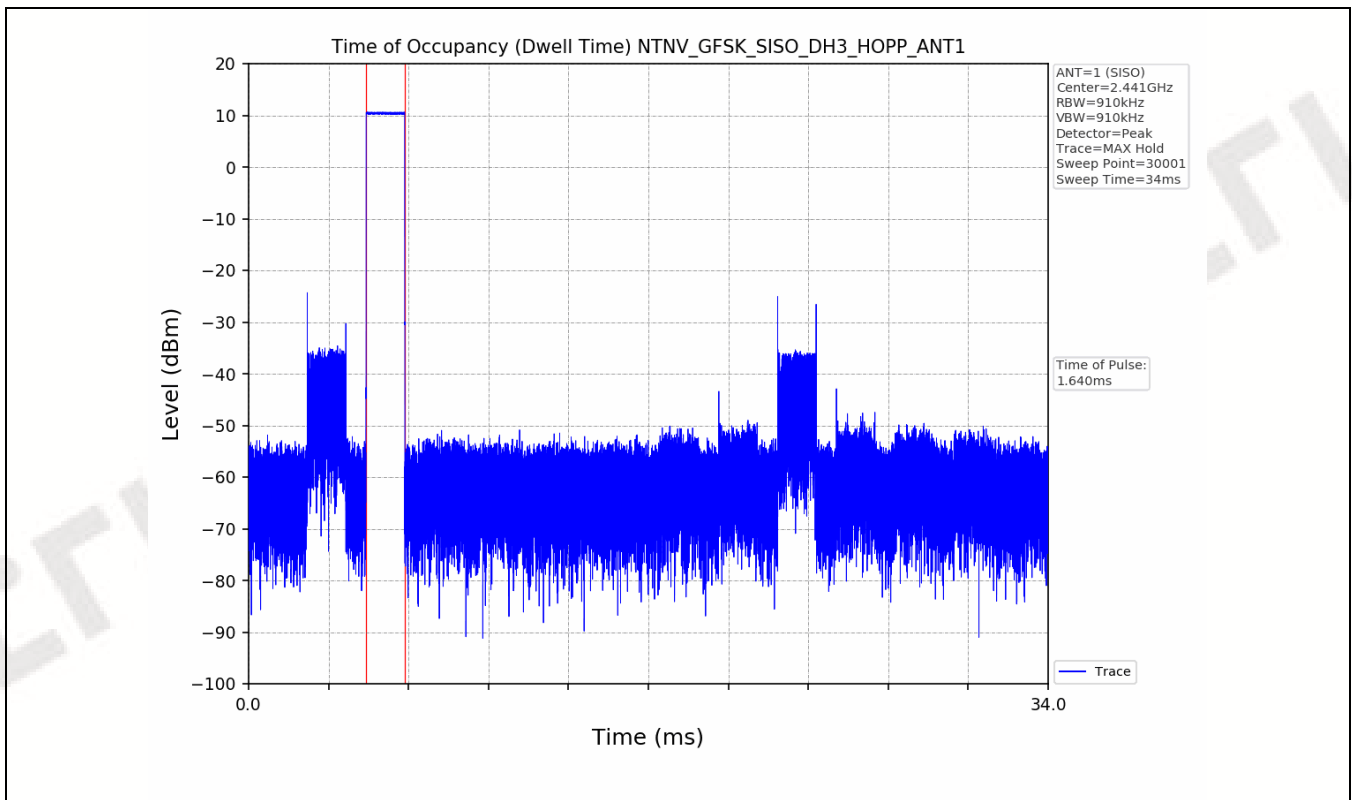
5.2 Test Graph

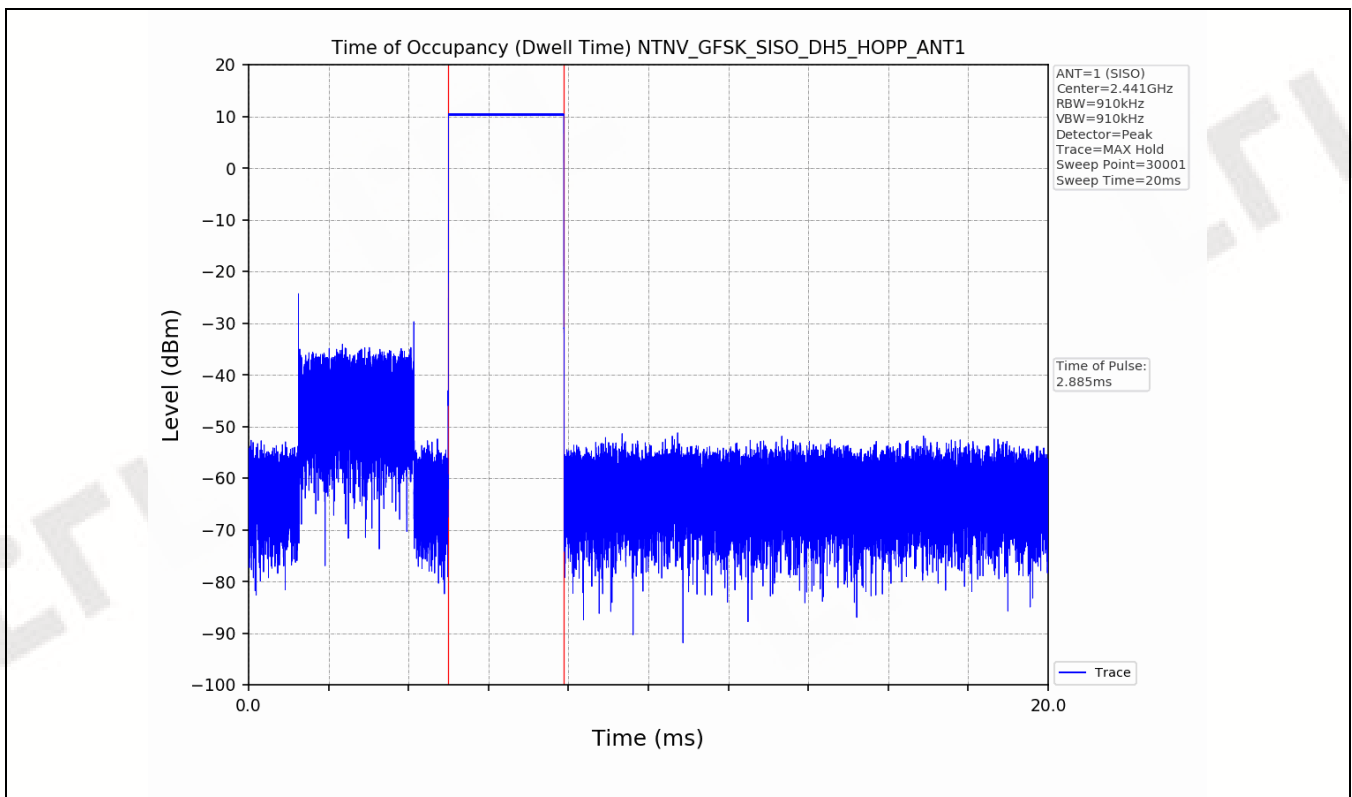
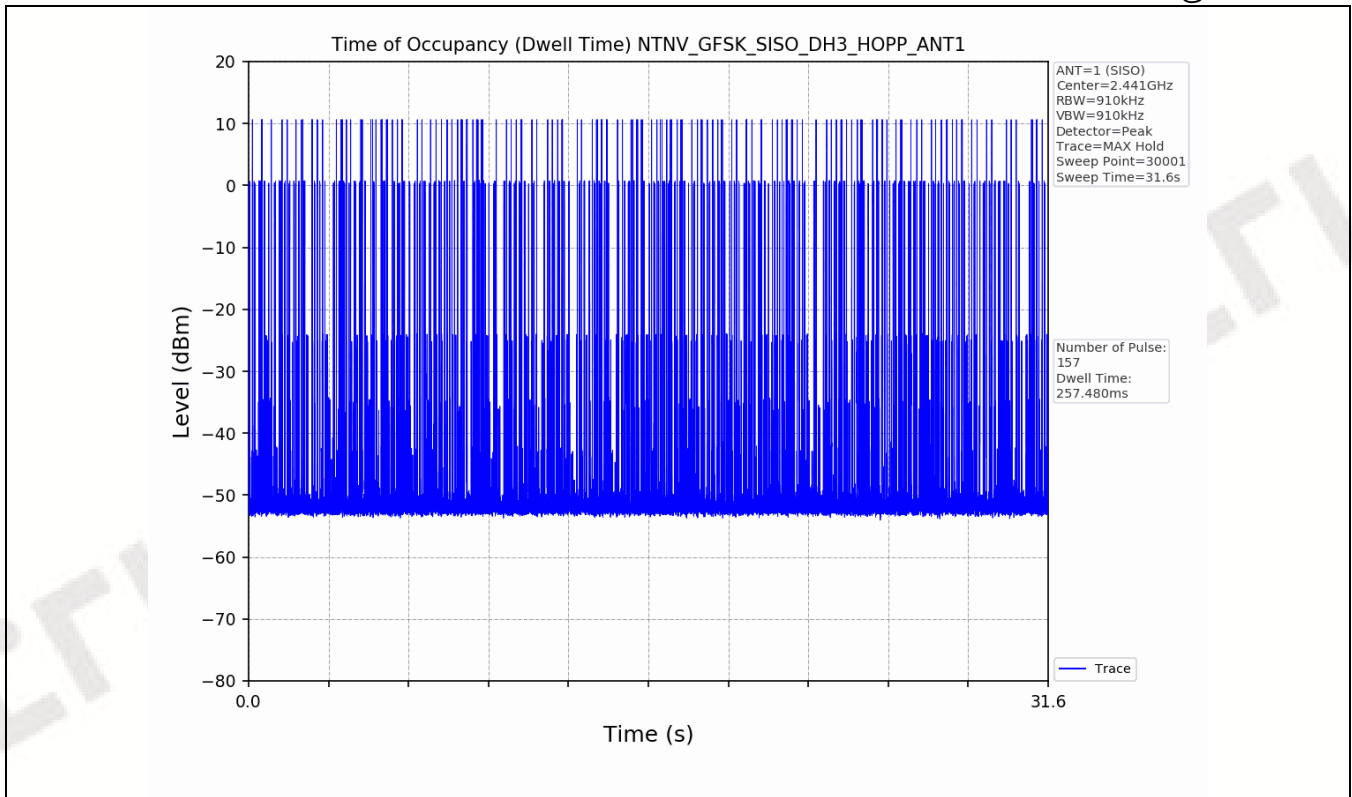




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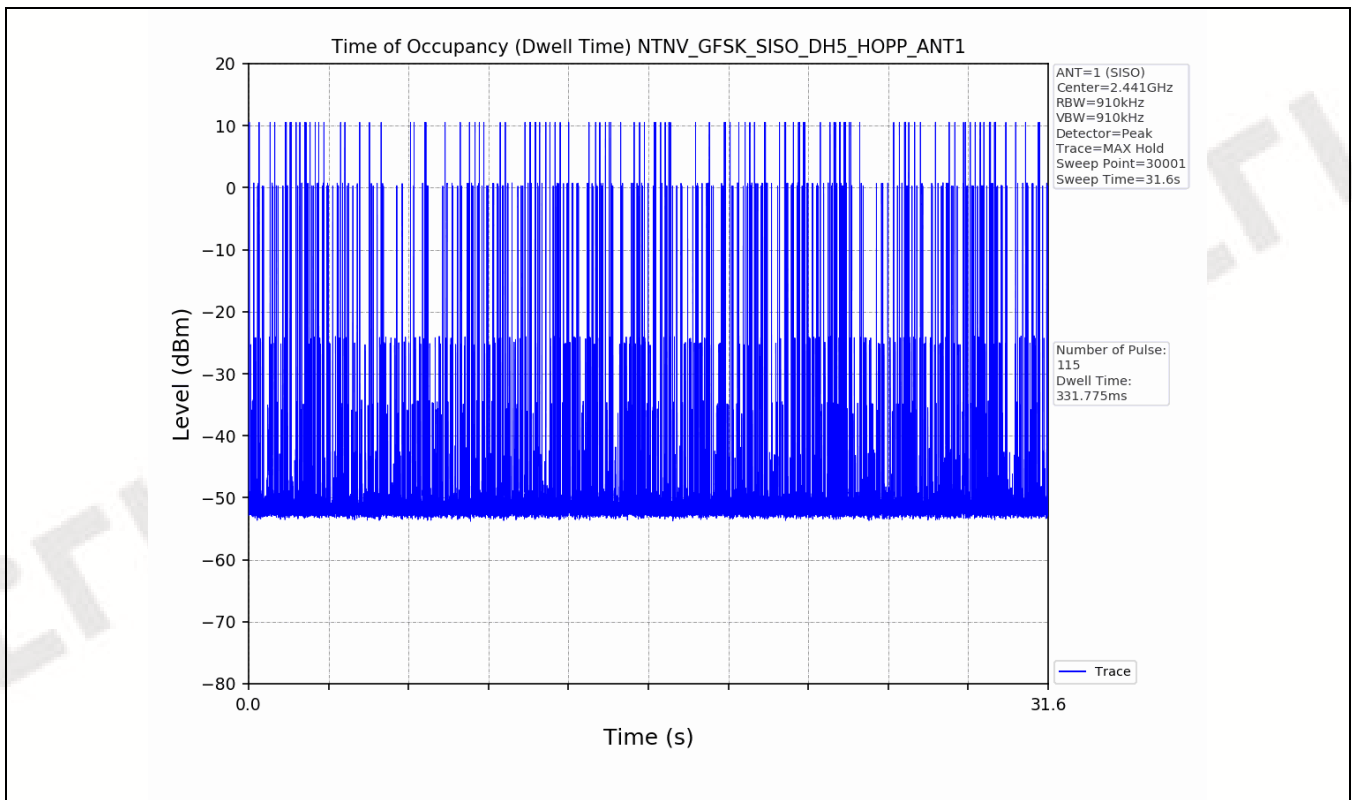


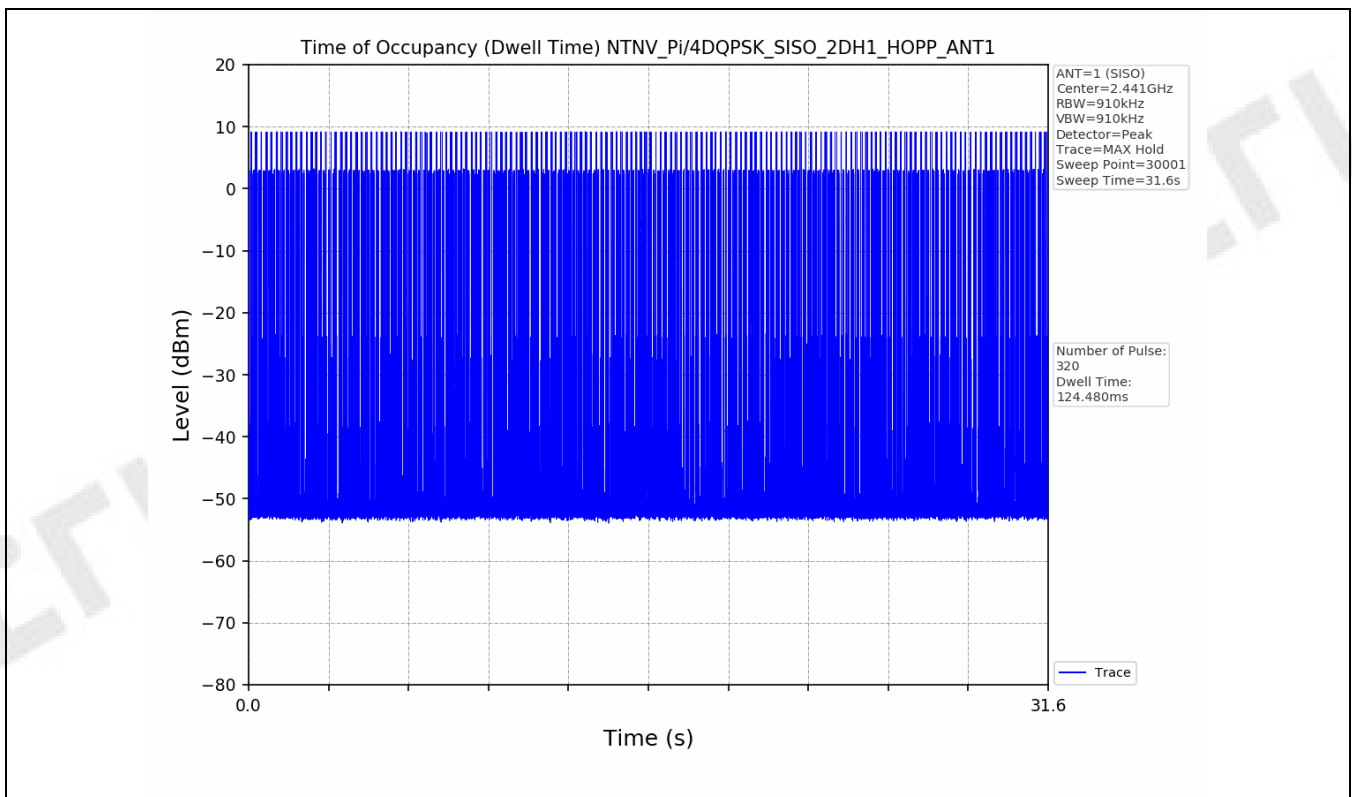
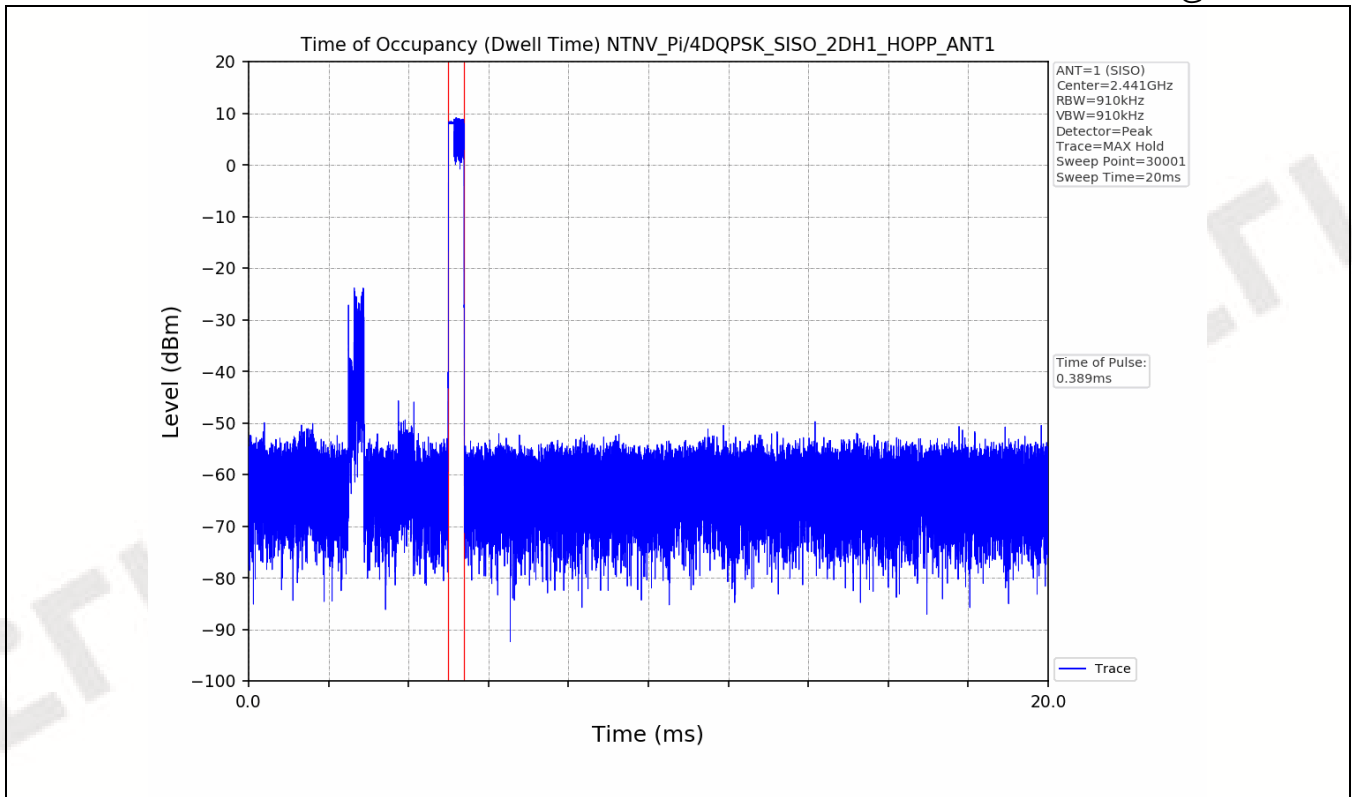


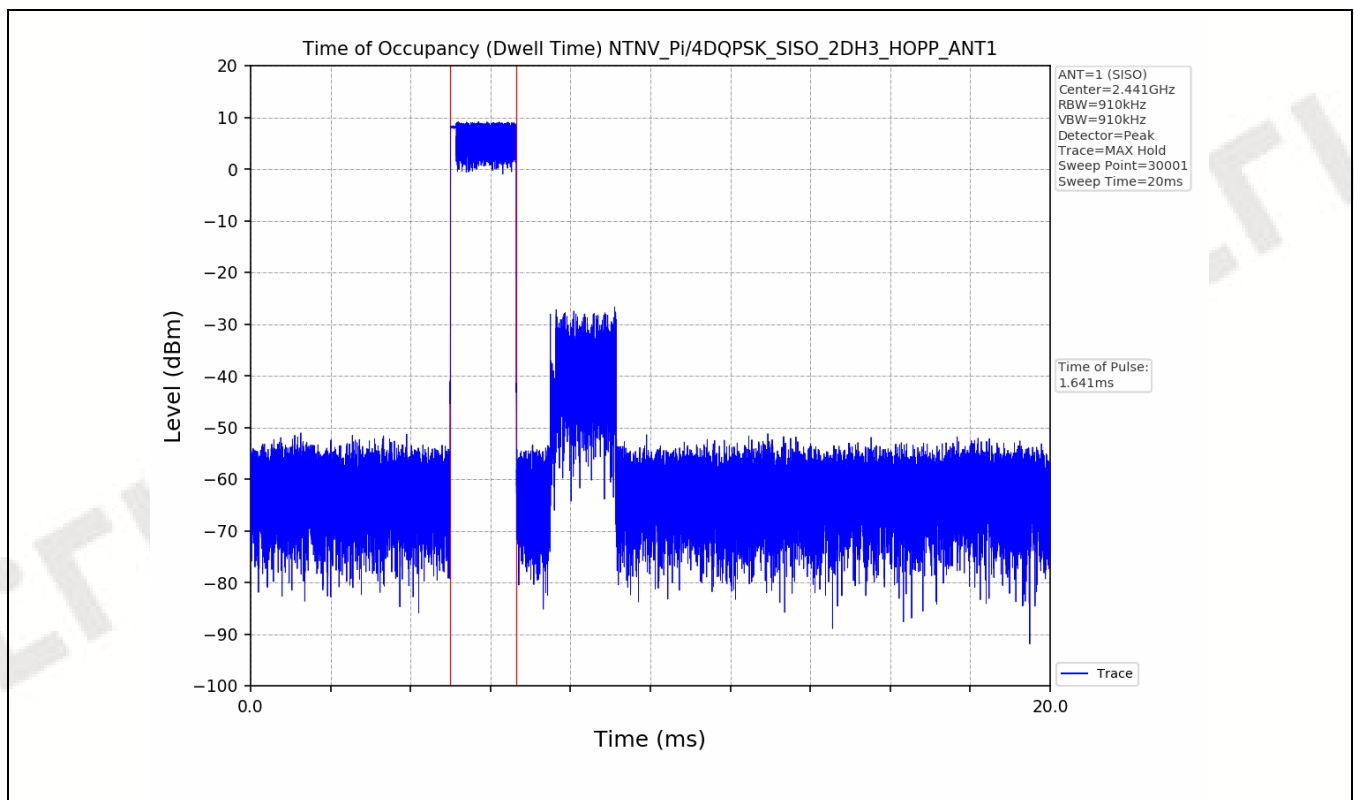


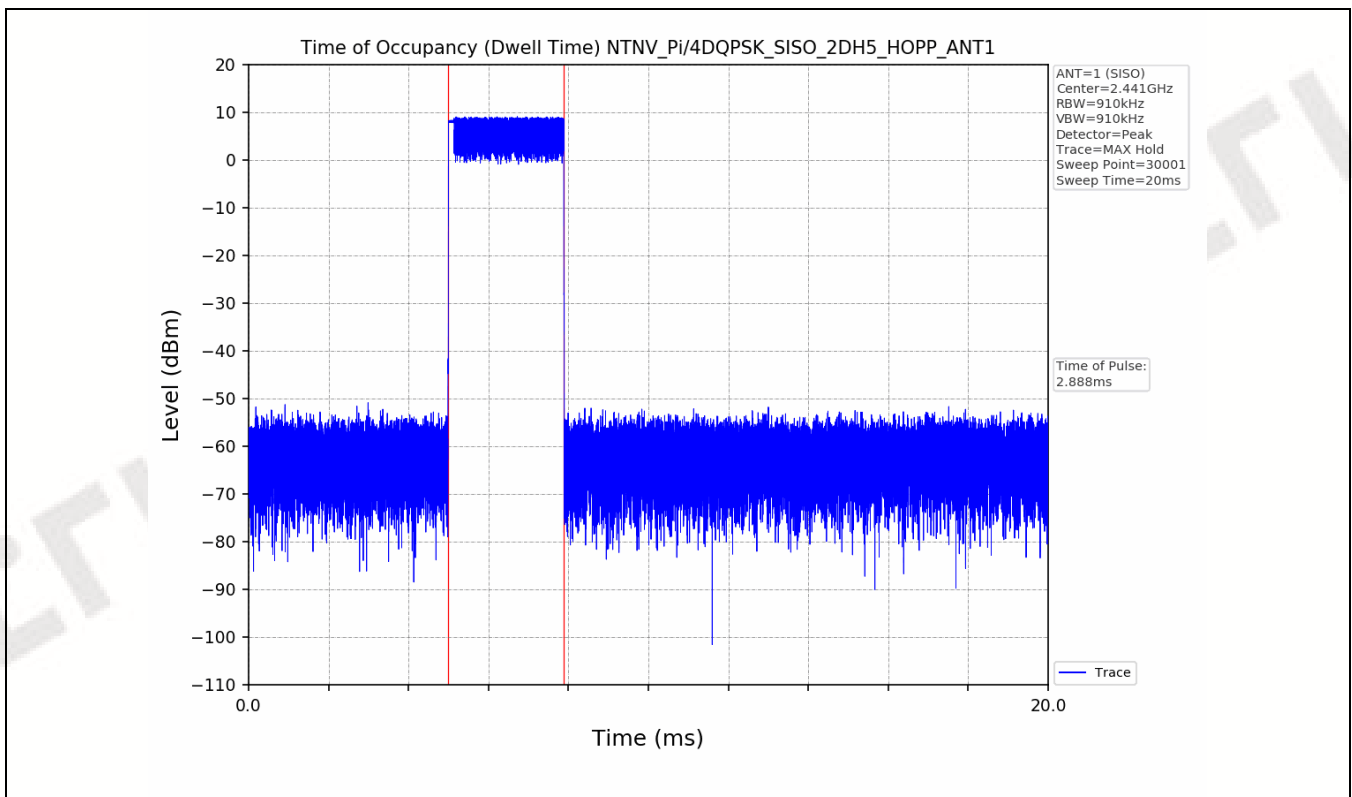
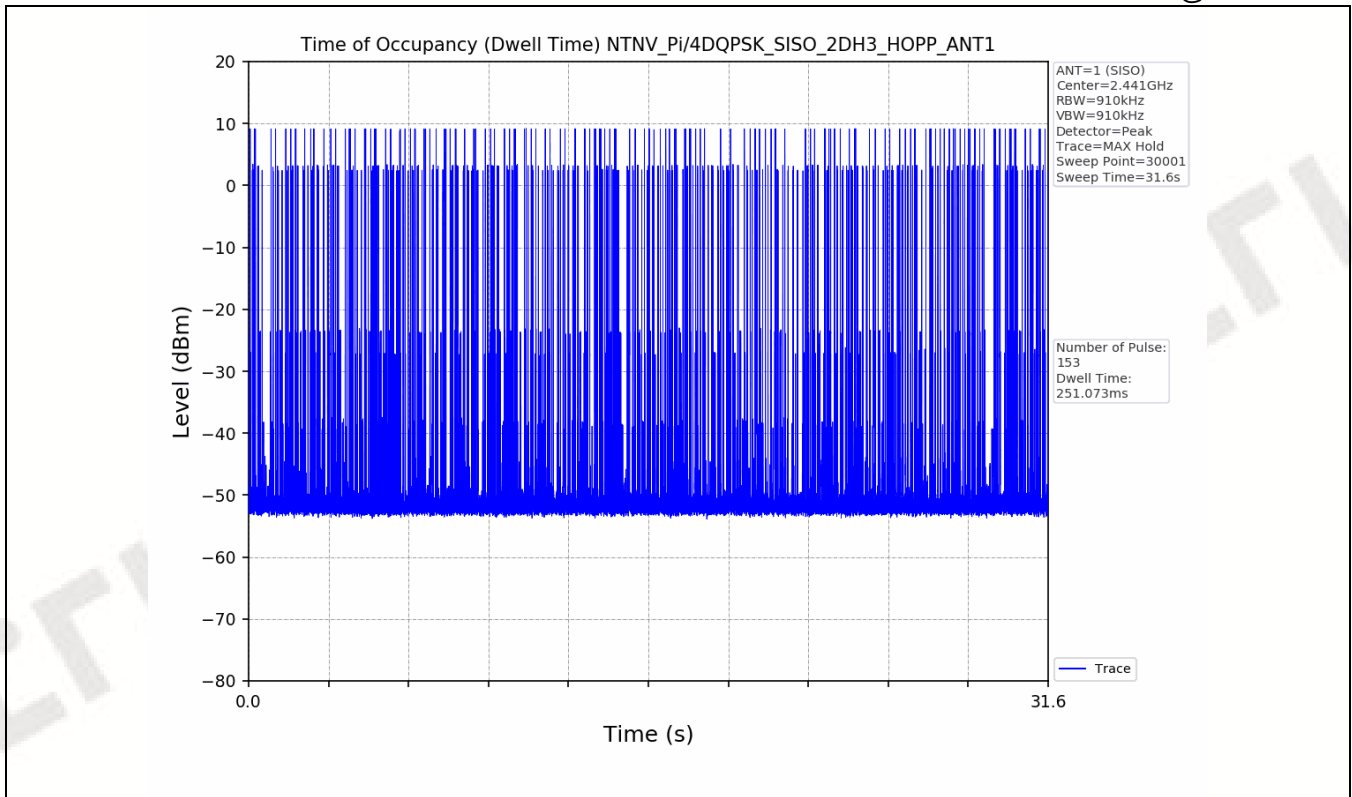
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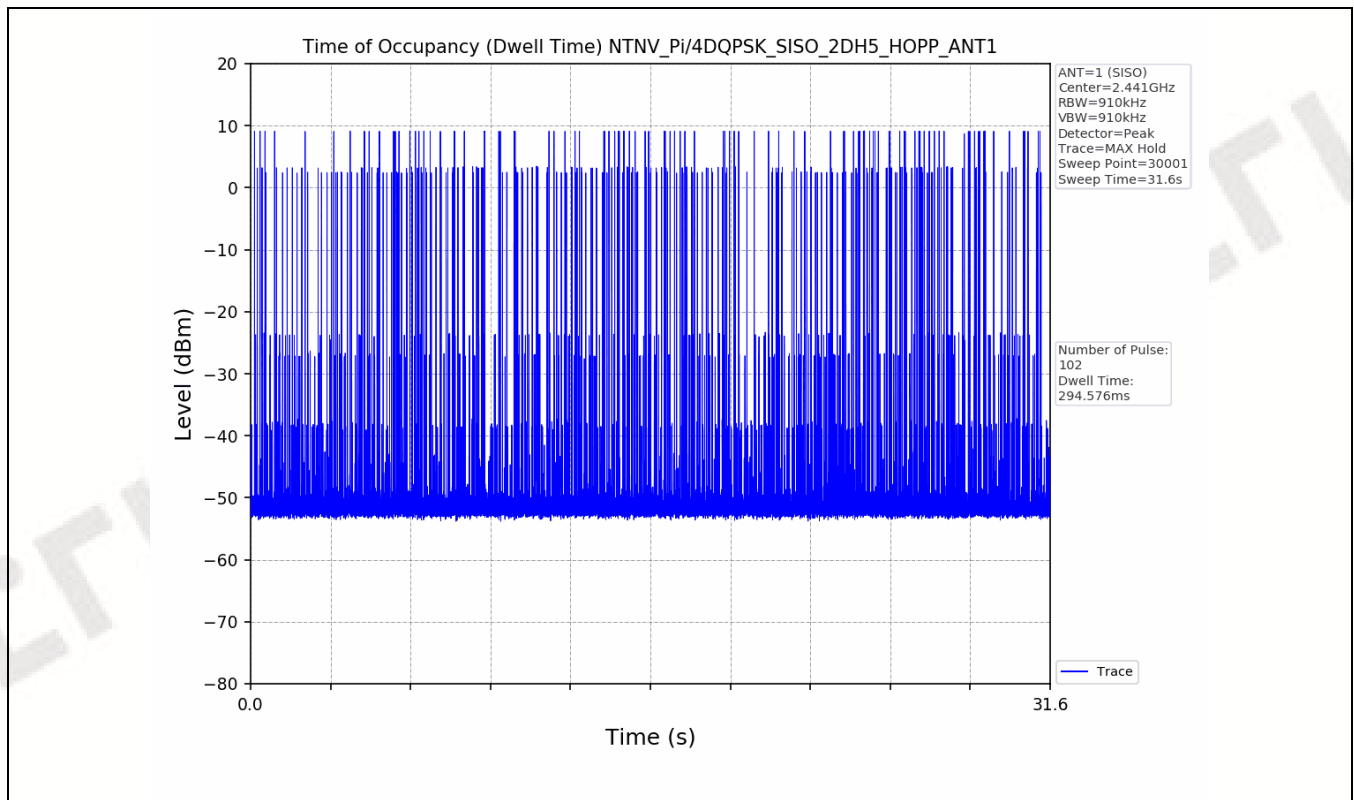


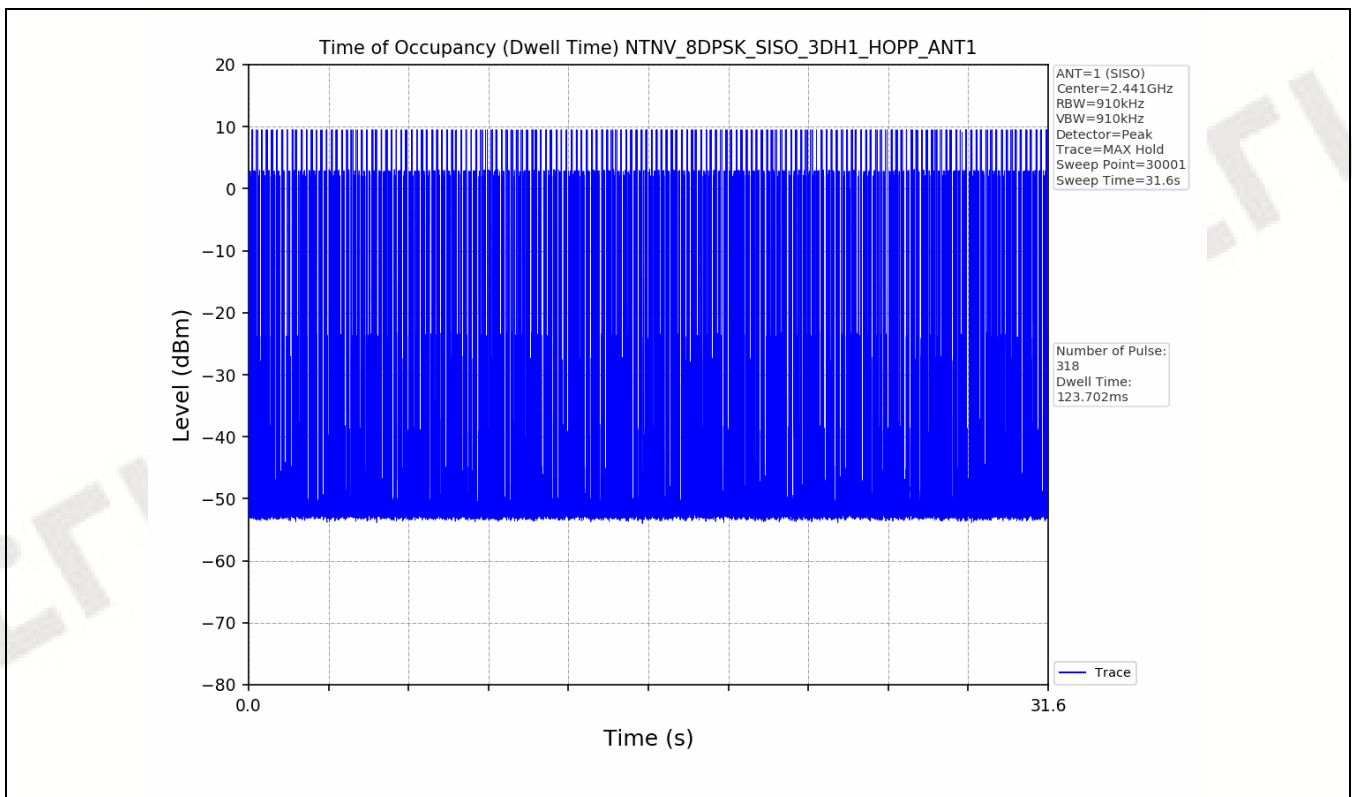
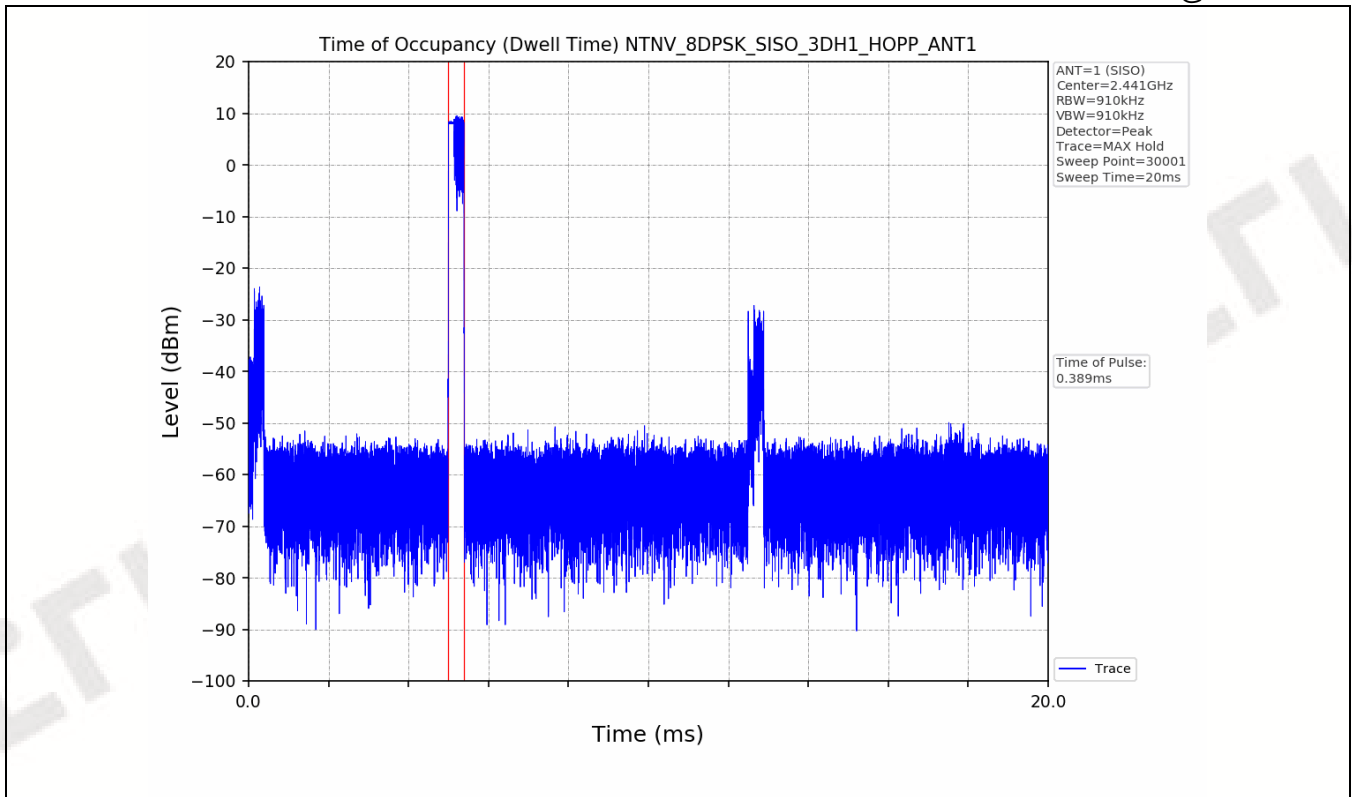




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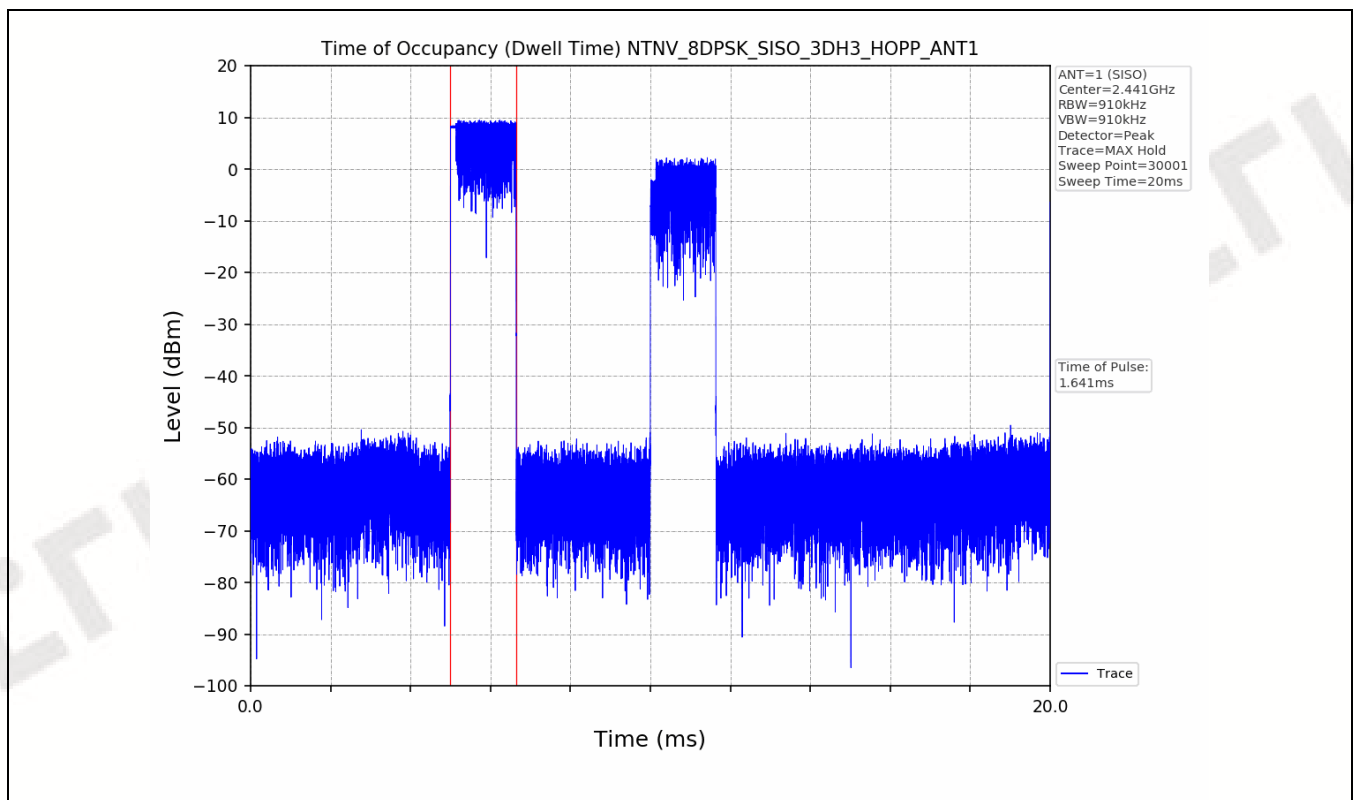


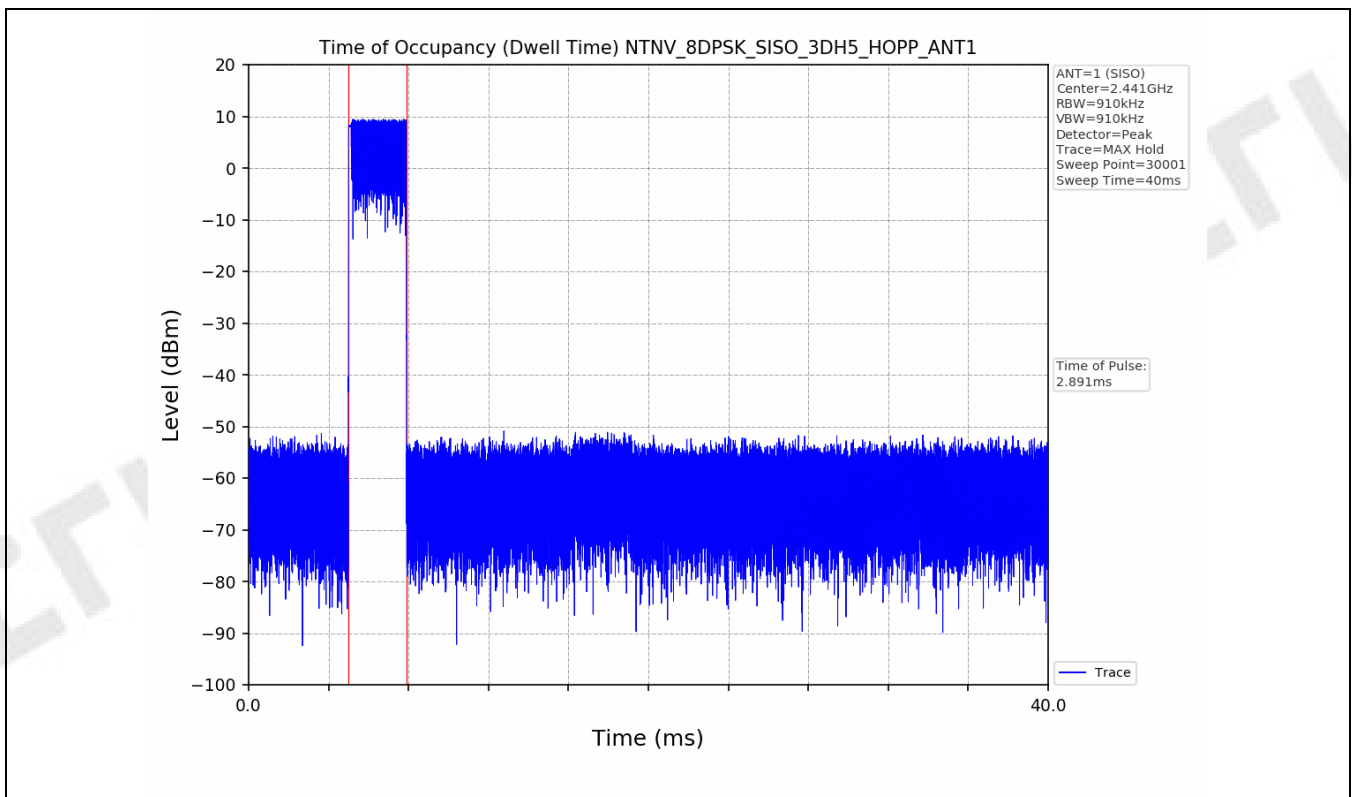
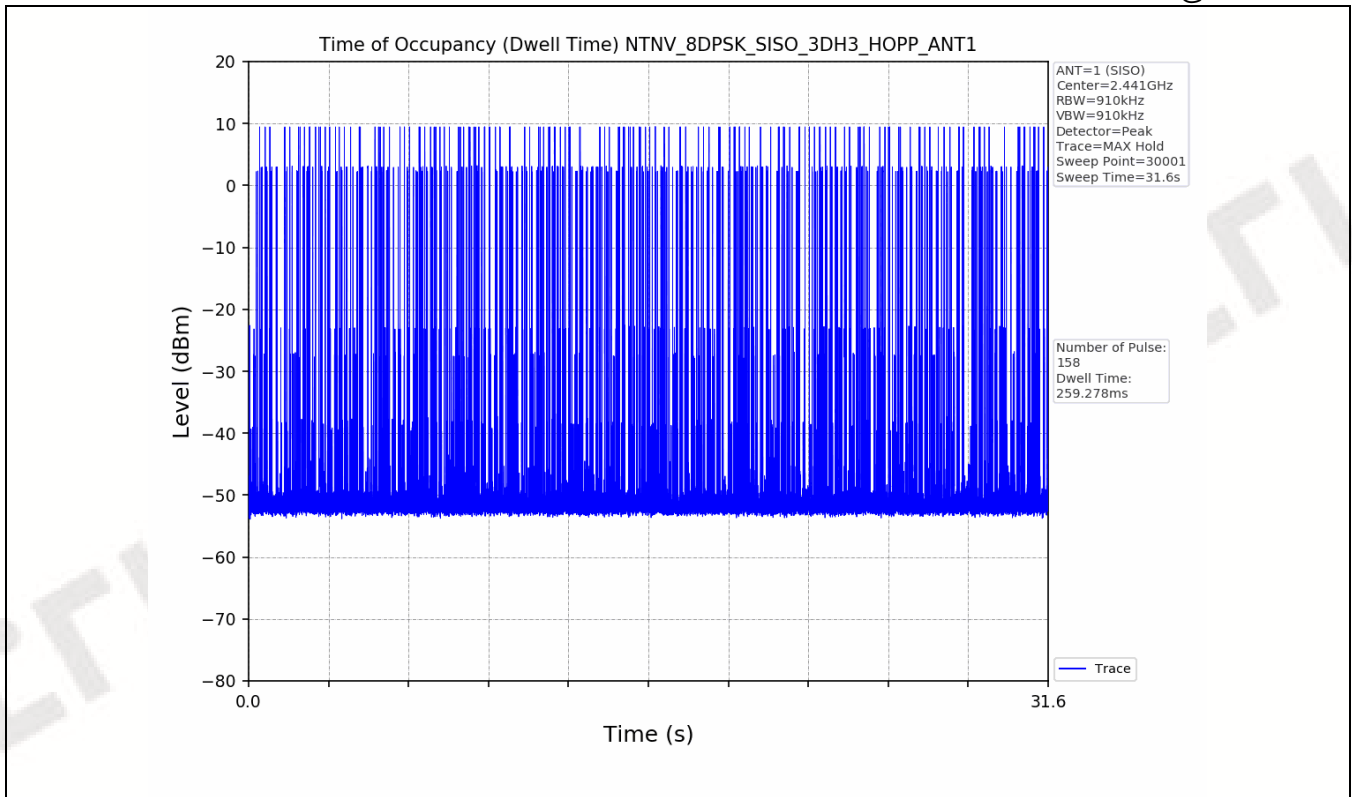


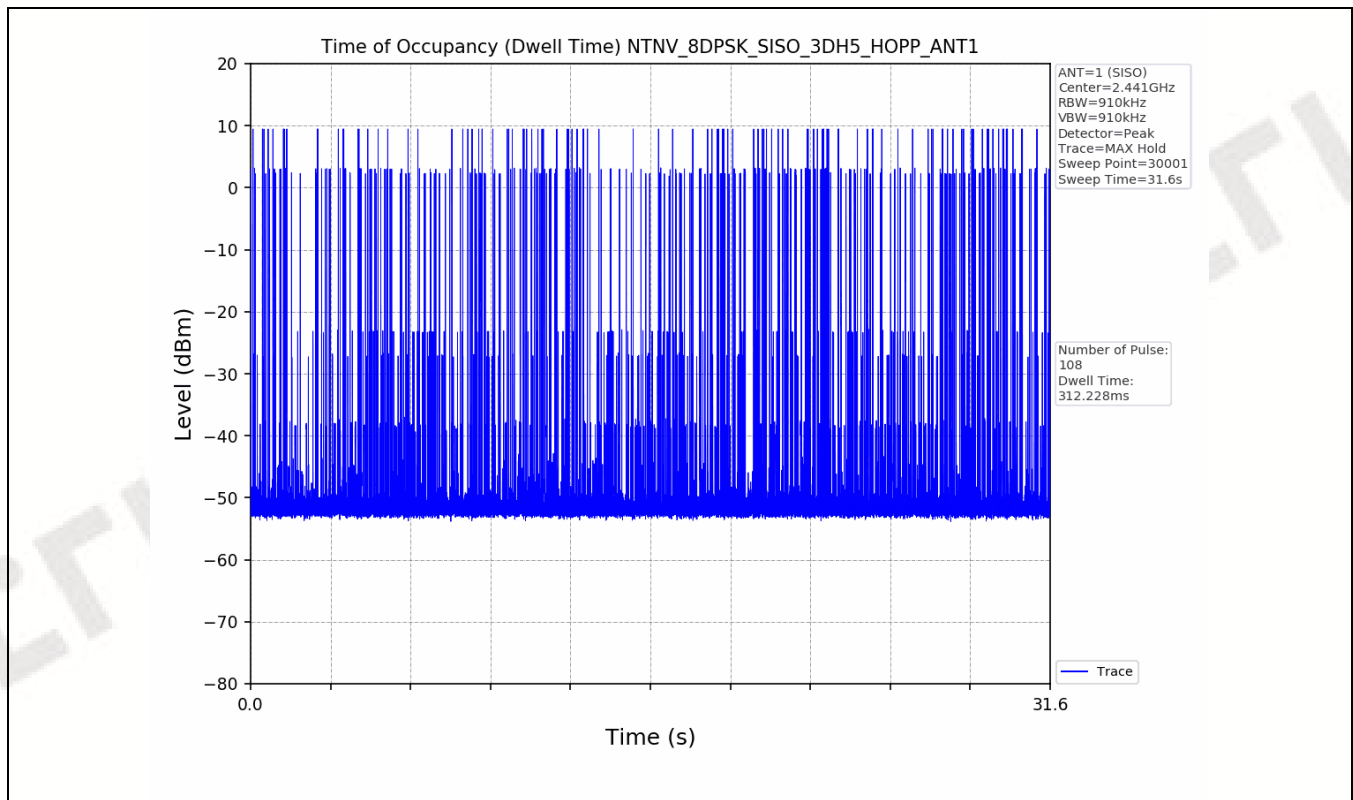


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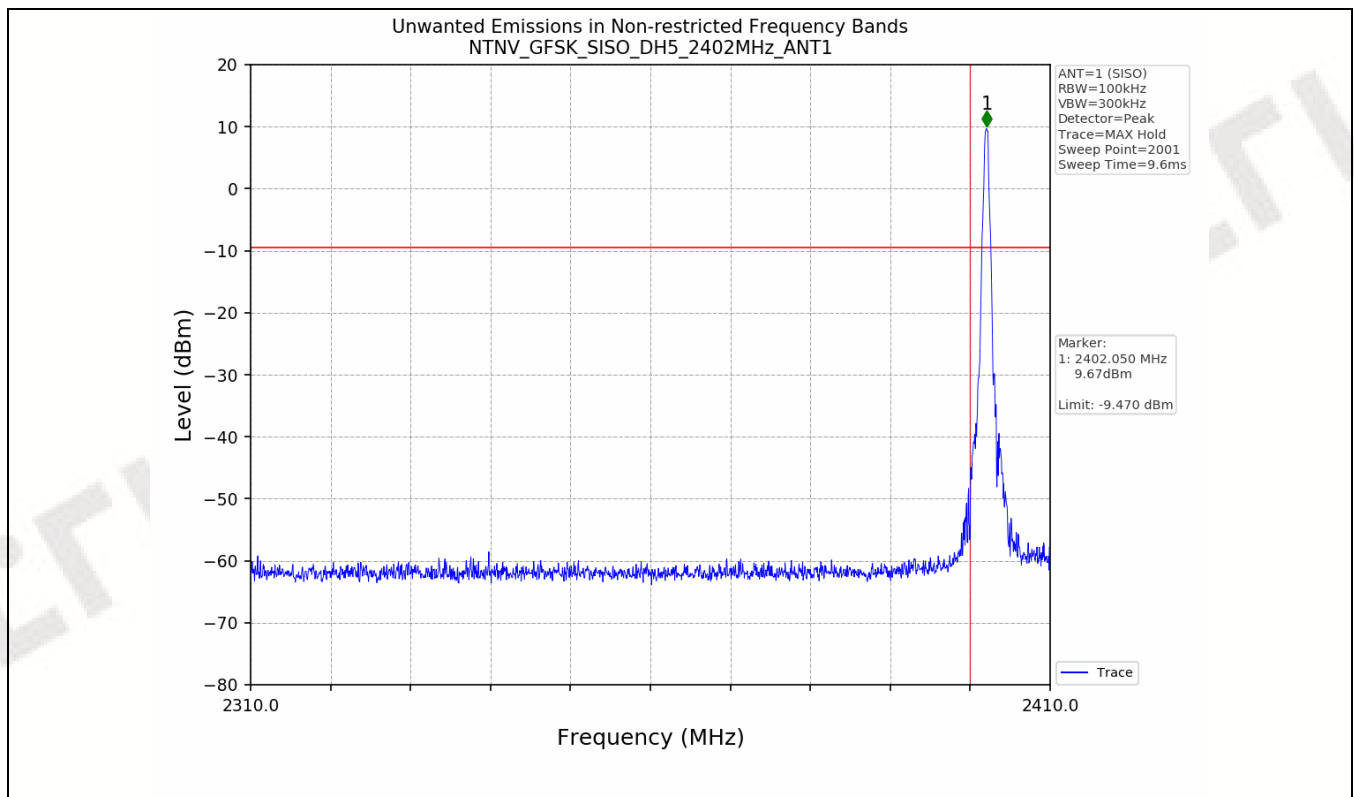
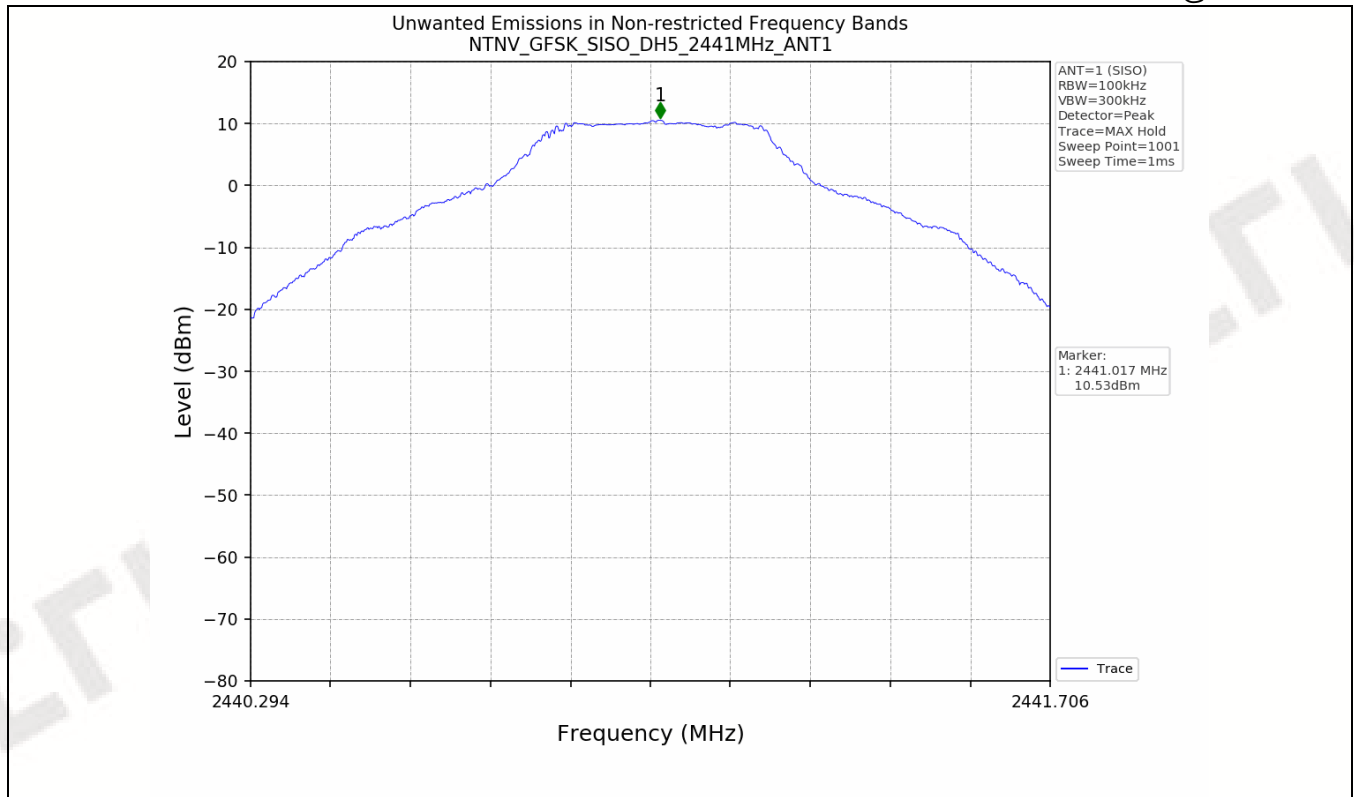


6. Unwanted Emissions in Non-restricted Frequency Bands

6.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
GFSK	2402	SISO	1	Refer to test graph	-9.47	PASS
	2441	SISO	1	Refer to test graph	-9.47	PASS
	2480	SISO	1	Refer to test graph	-9.47	PASS
	Hopping	SISO	1	Refer to test graph	-9.47	PASS
Pi/4DQPSK	2402	SISO	1	Refer to test graph	-11.77	PASS
	2441	SISO	1	Refer to test graph	-11.77	PASS
	2480	SISO	1	Refer to test graph	-11.77	PASS
	Hopping	SISO	1	Refer to test graph	-11.77	PASS
8DPSK	2402	SISO	1	Refer to test graph	-11.75	PASS
	2441	SISO	1	Refer to test graph	-11.75	PASS
	2480	SISO	1	Refer to test graph	-11.75	PASS
	Hopping	SISO	1	Refer to test graph	-11.75	PASS

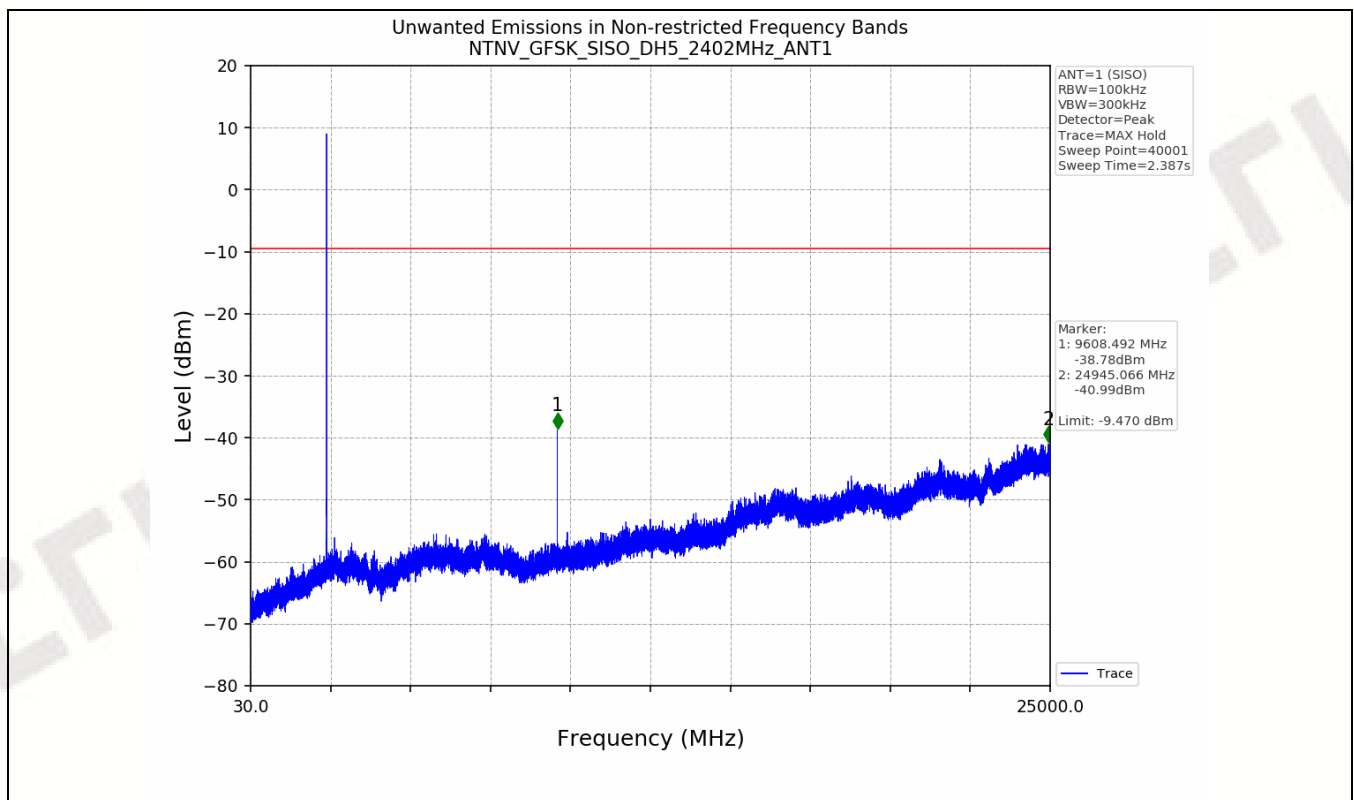
6.2 Test Graph

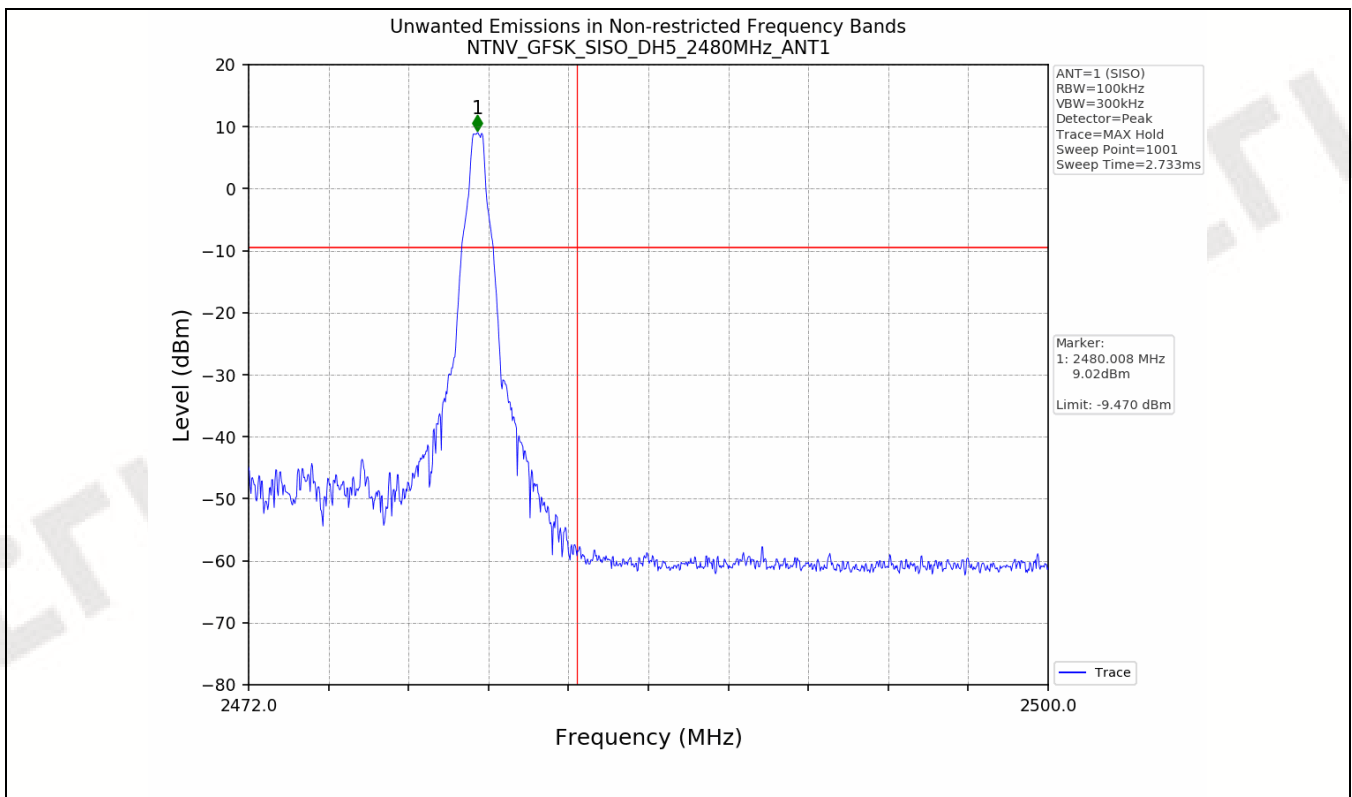
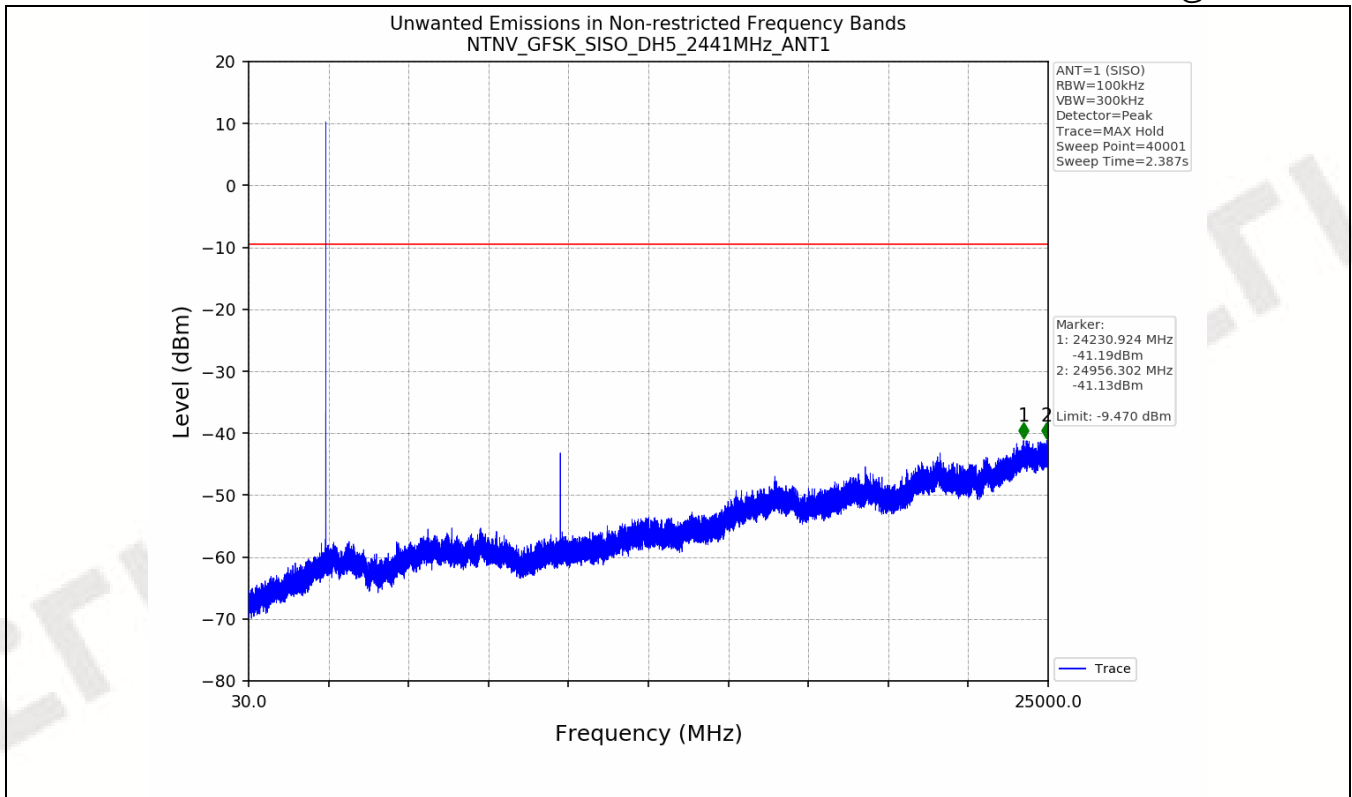




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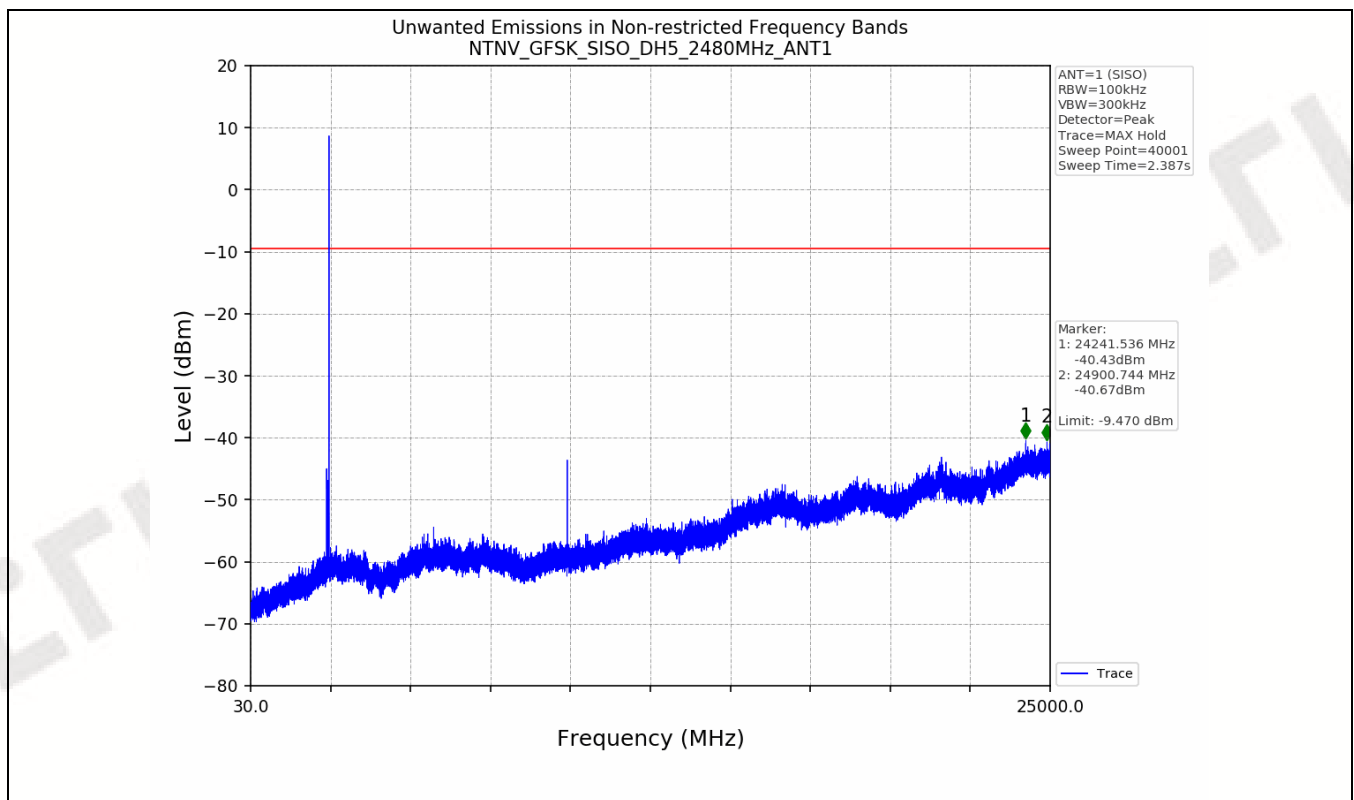


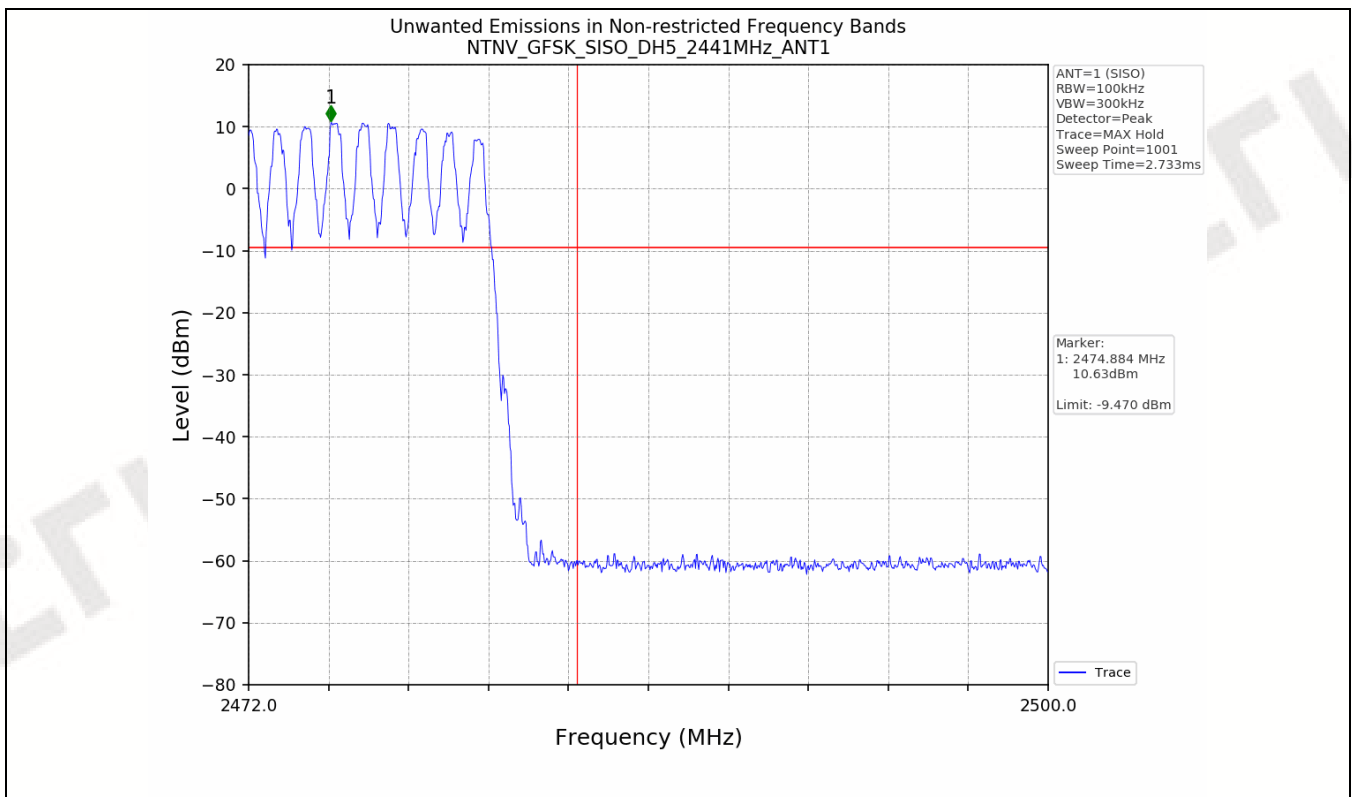
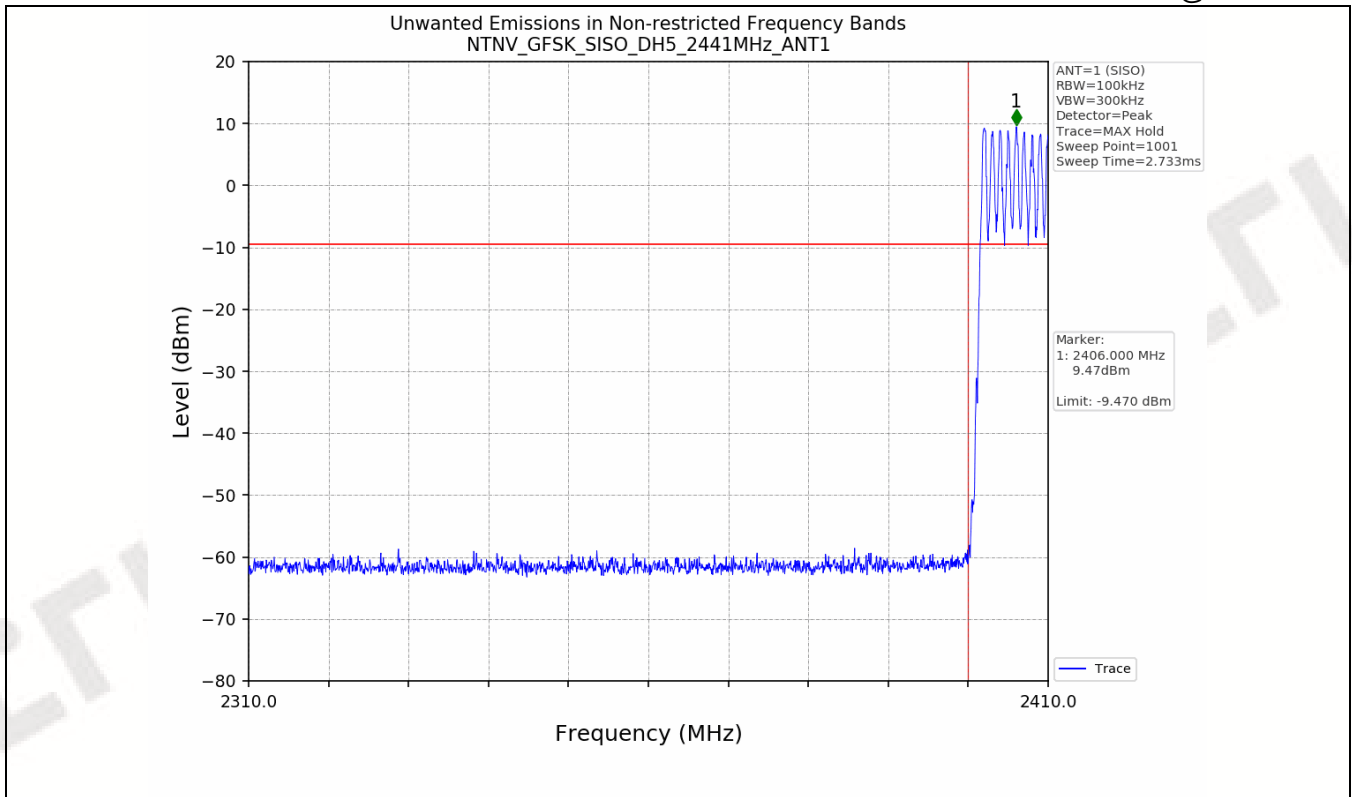




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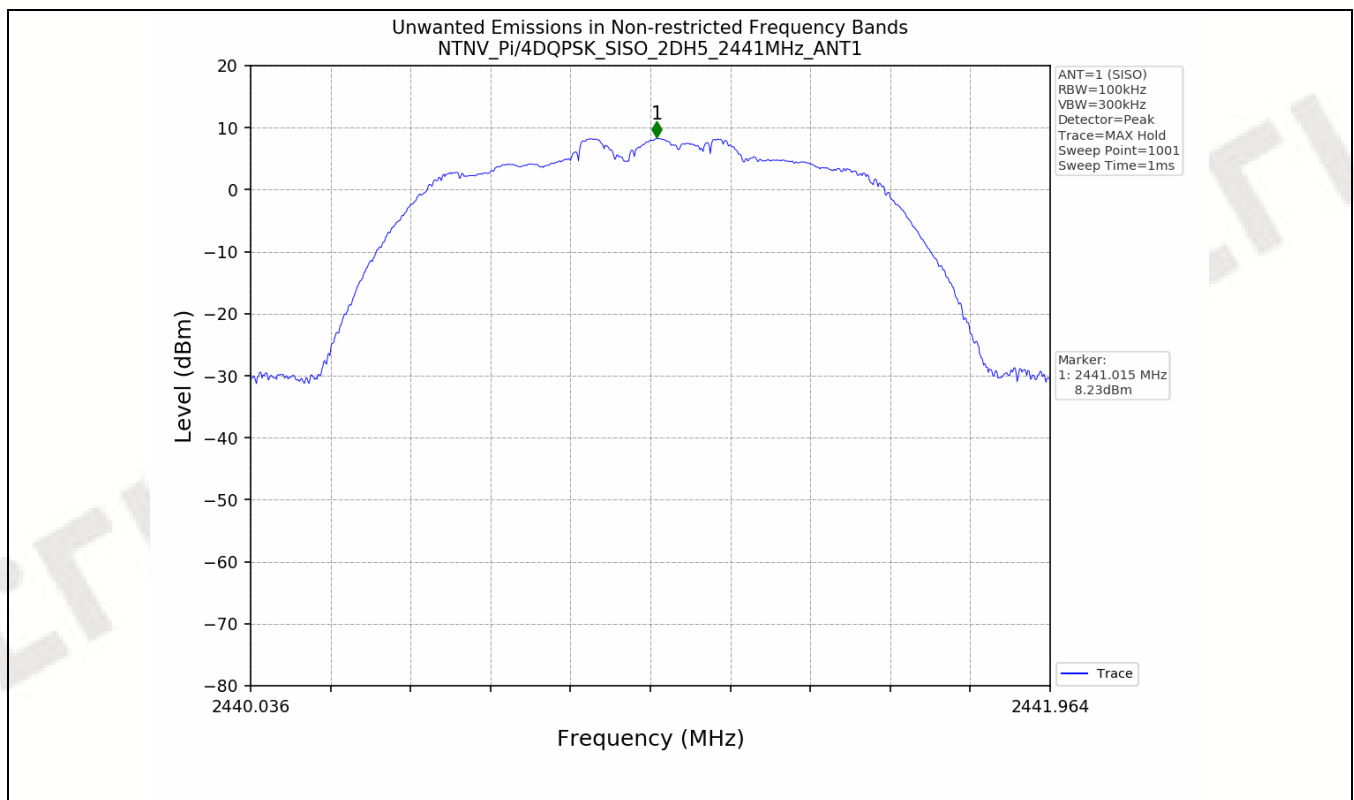


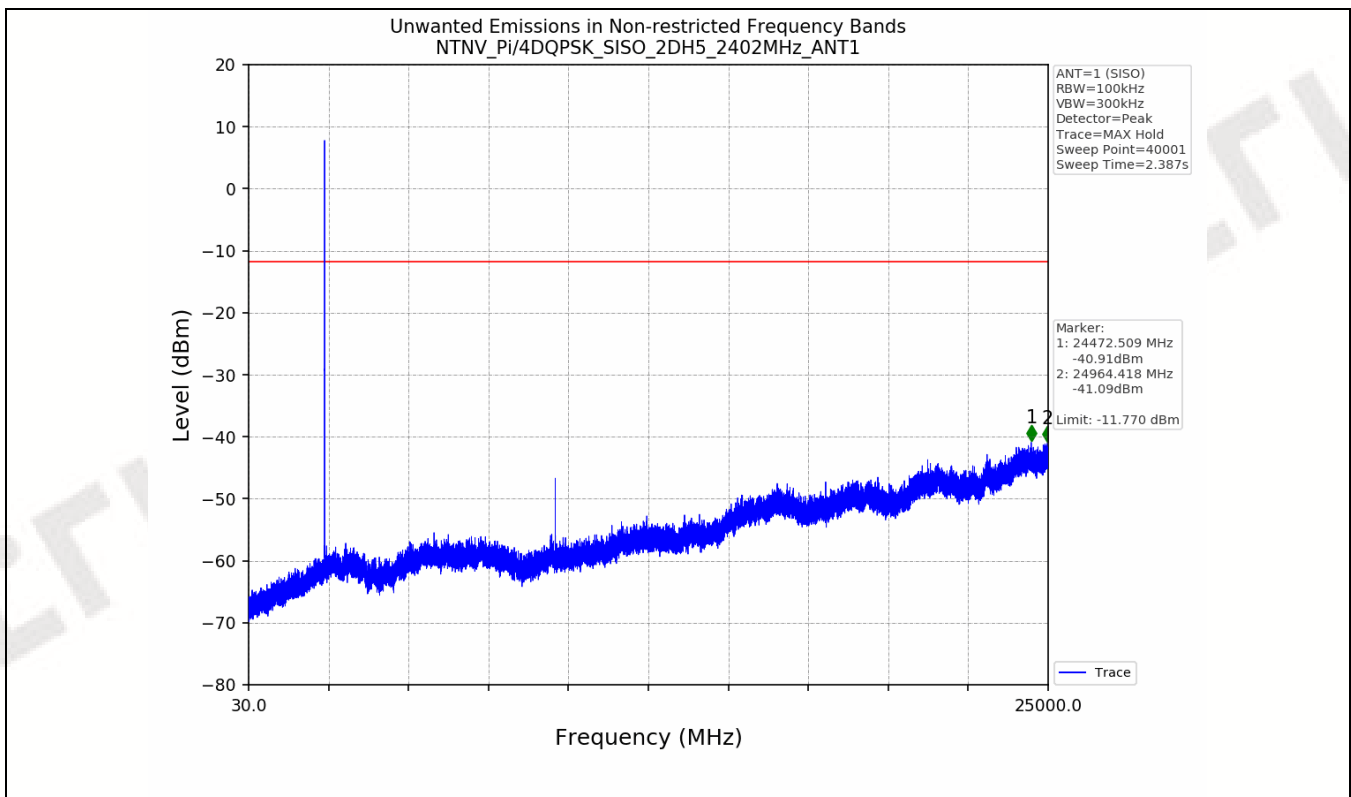
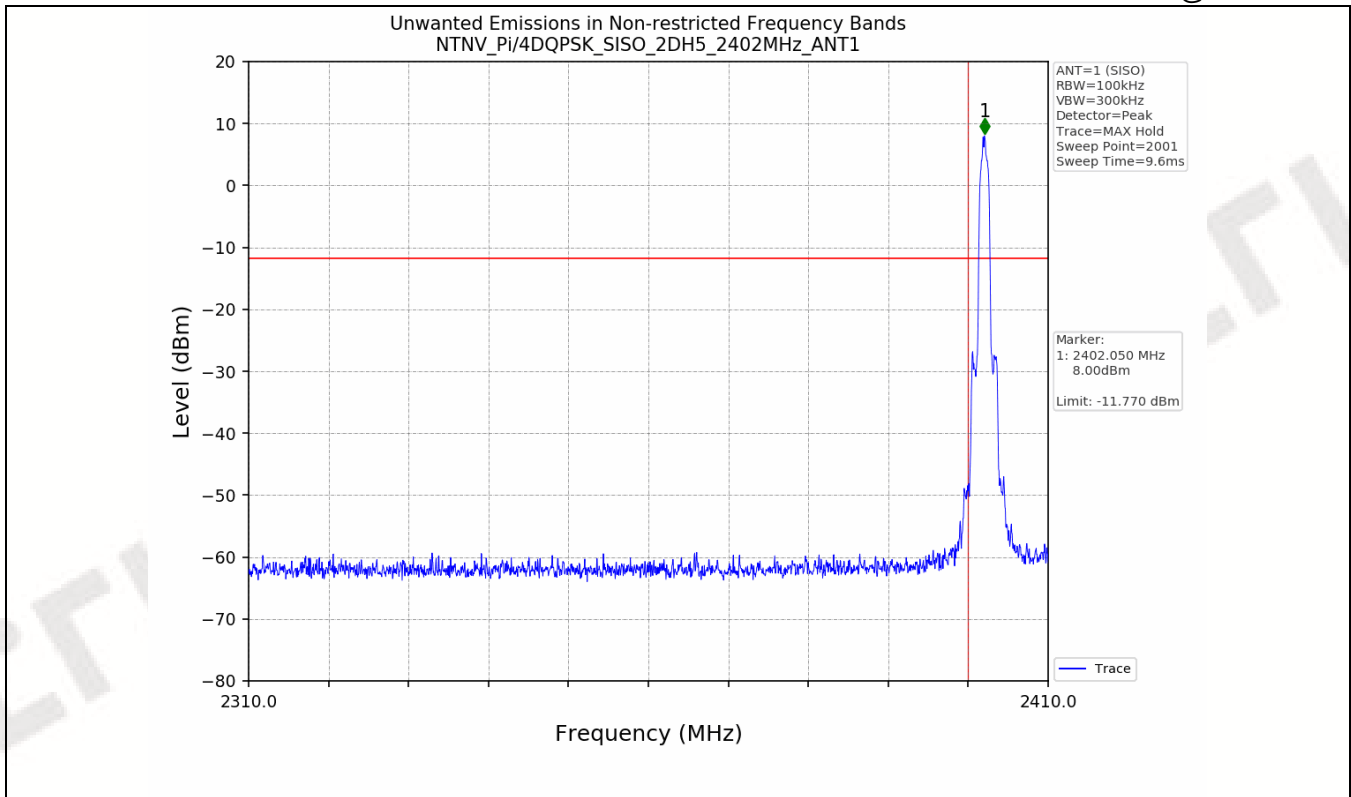




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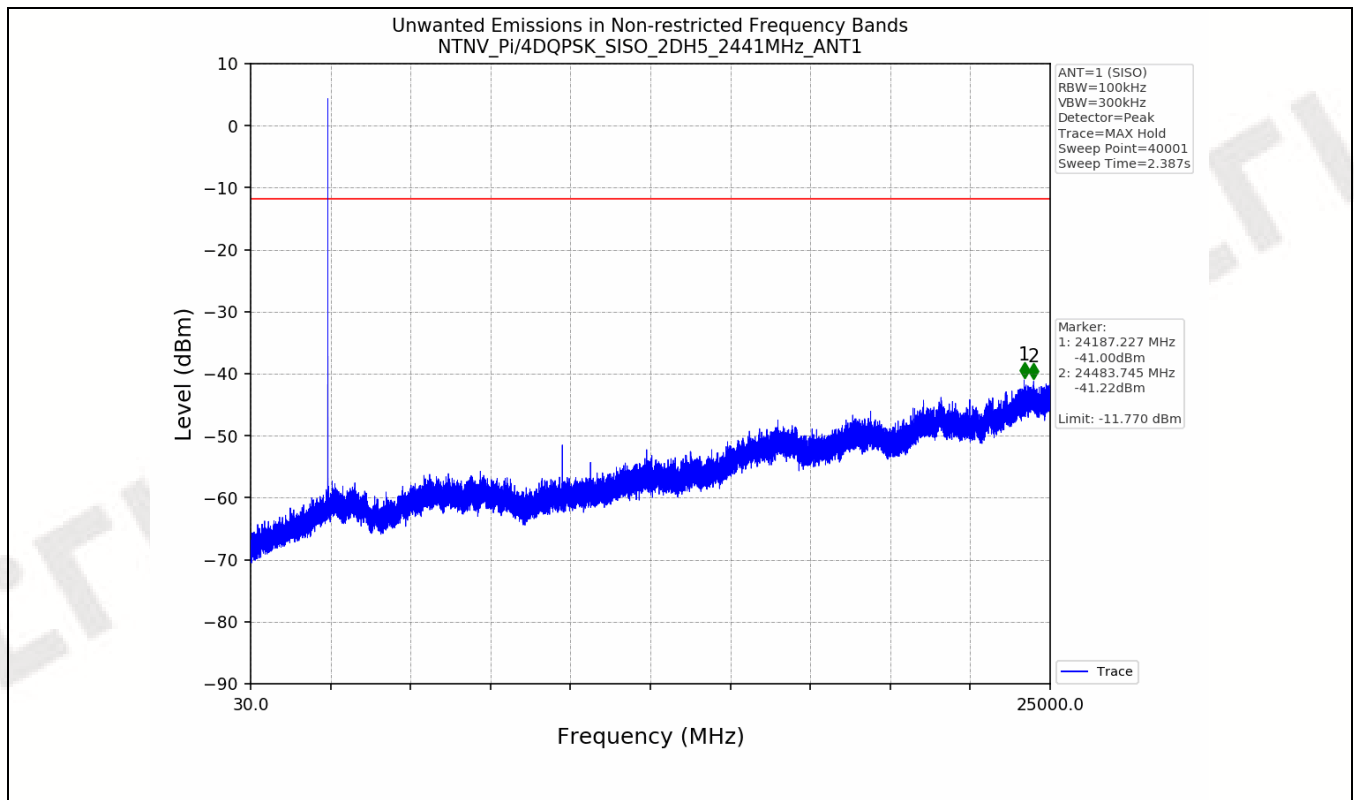


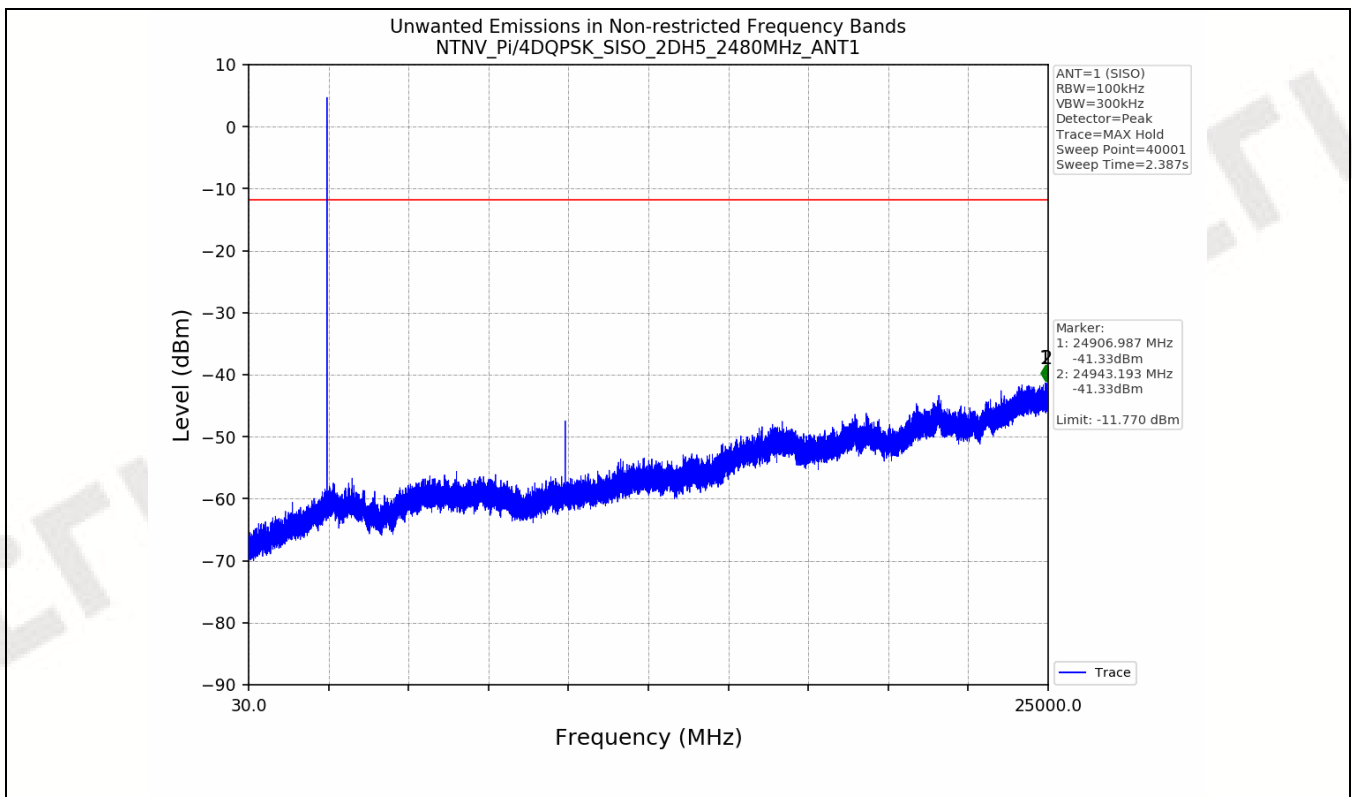
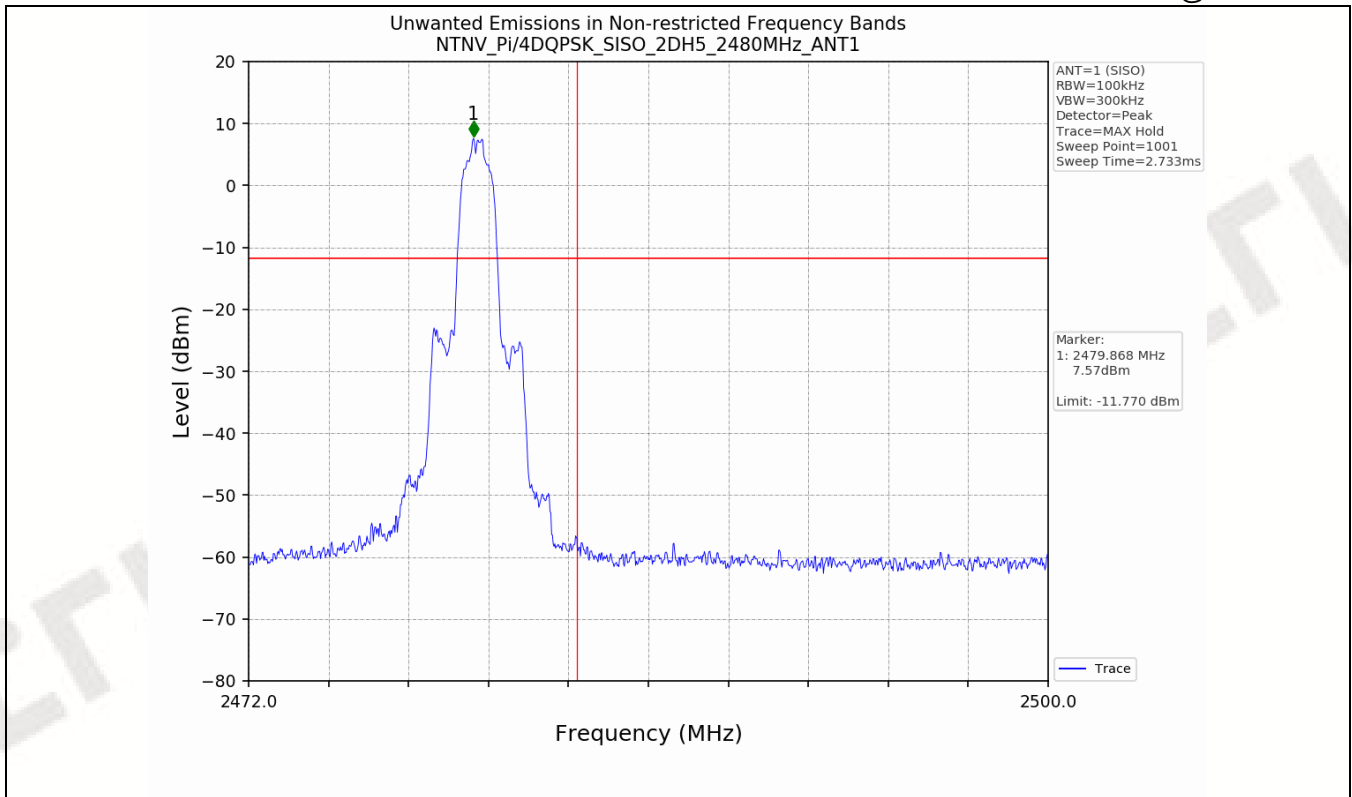




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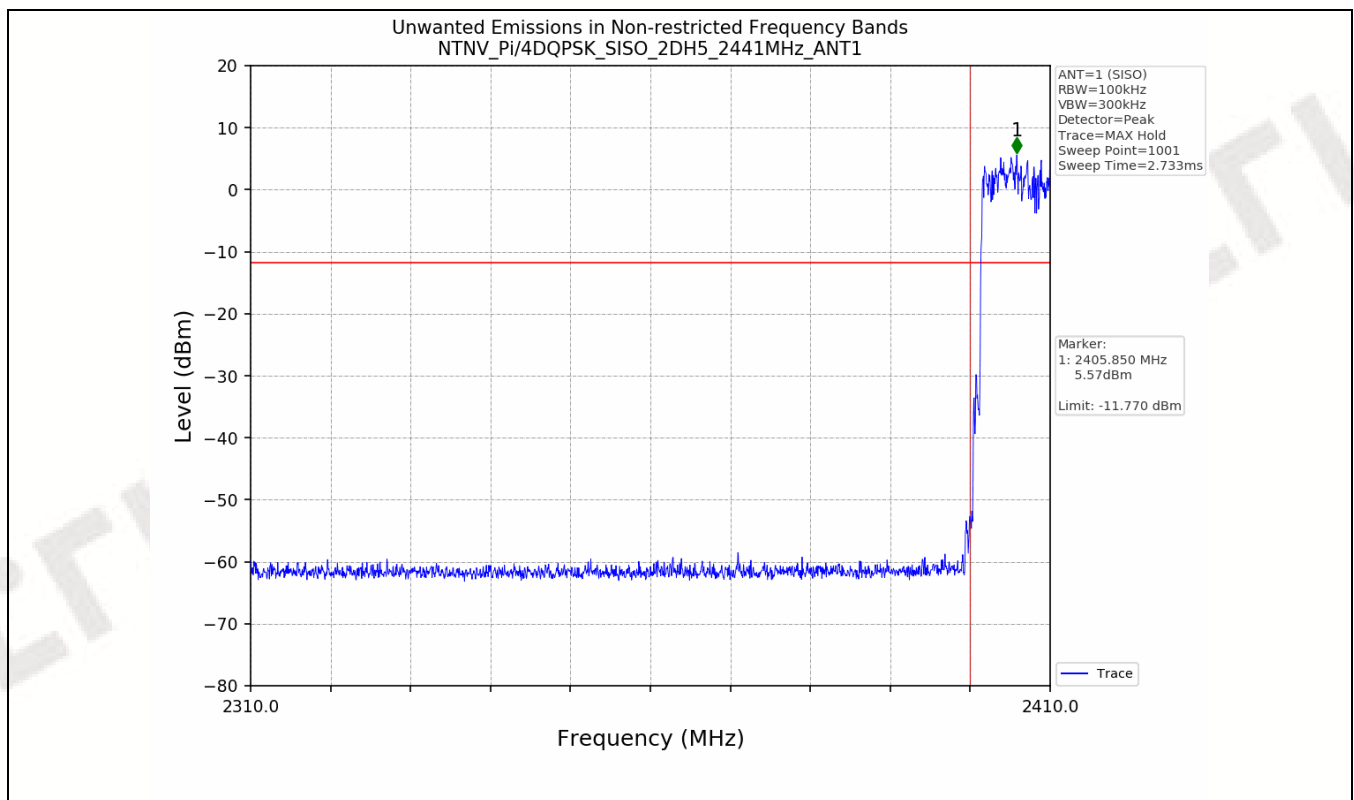


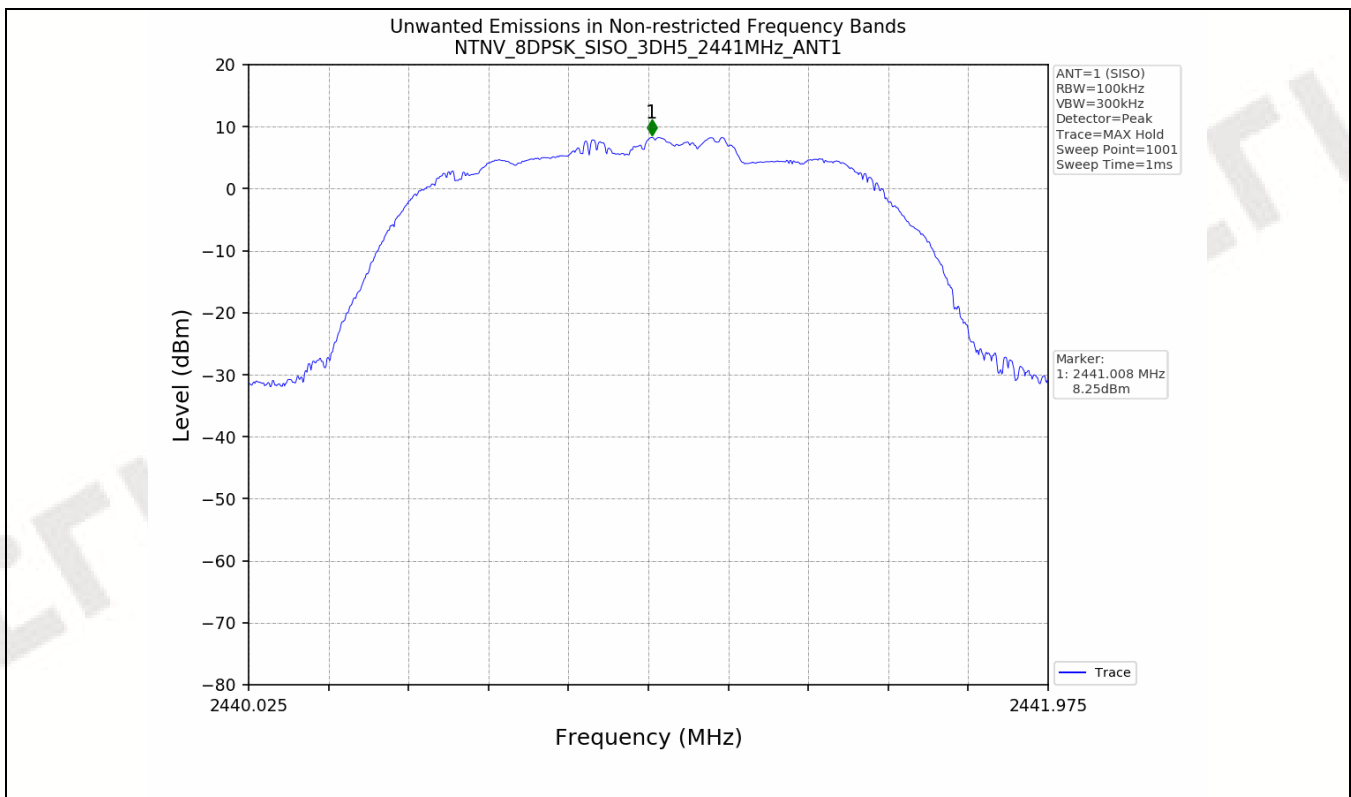
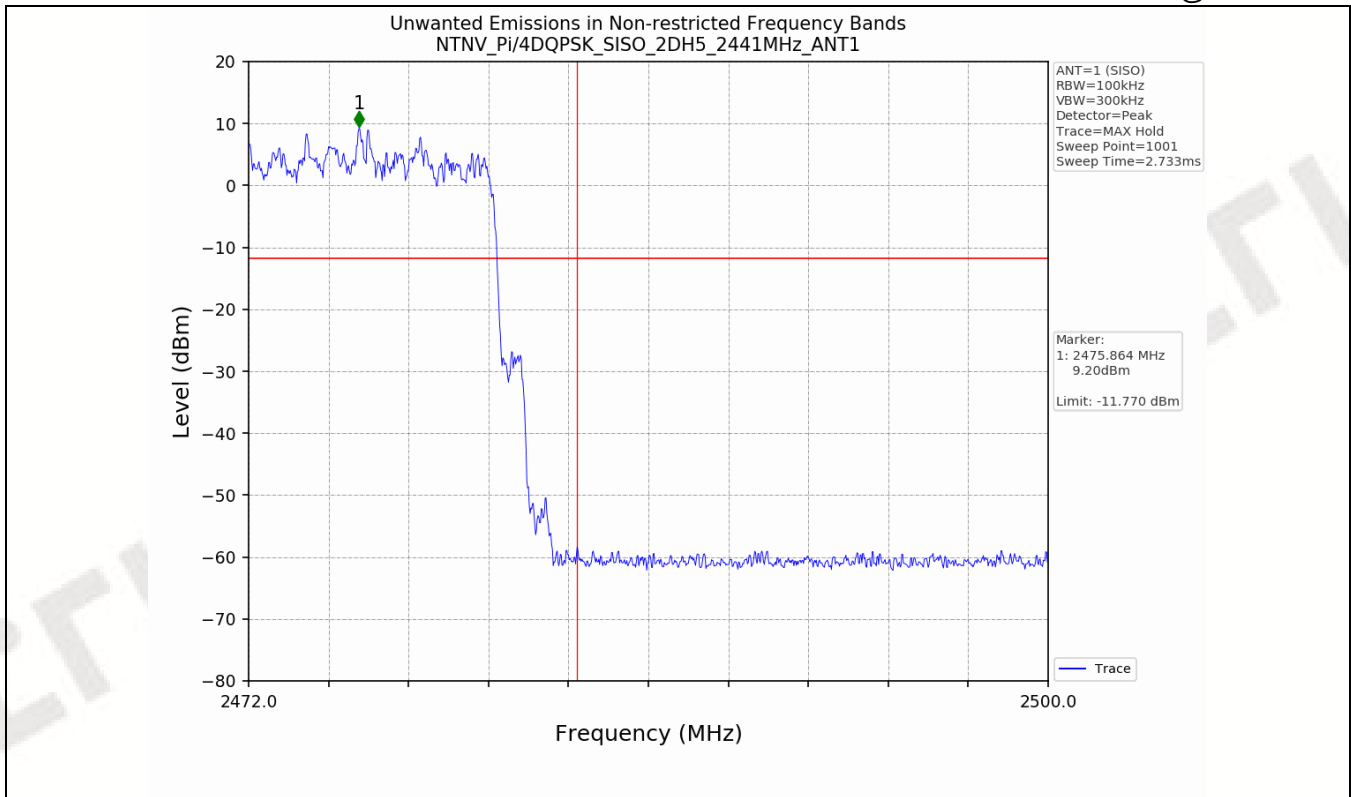




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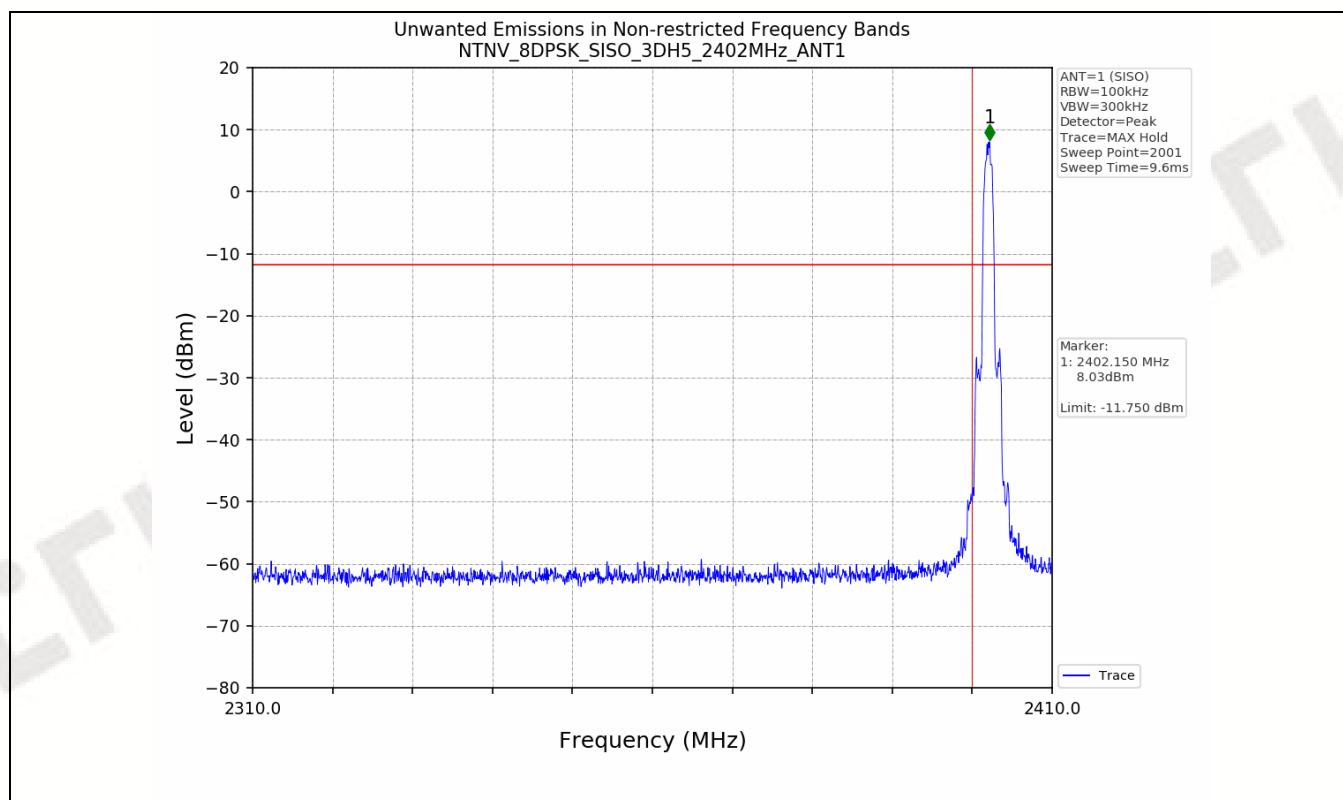


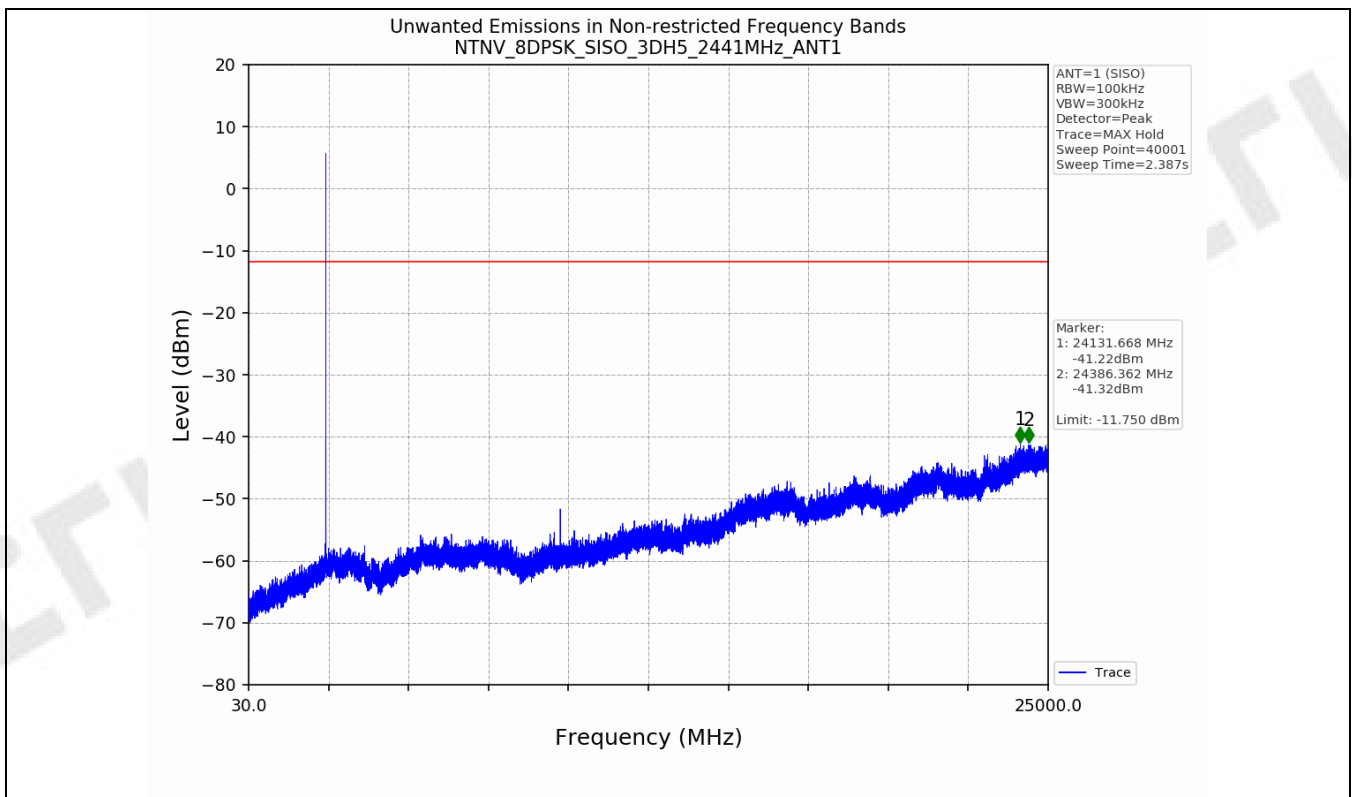
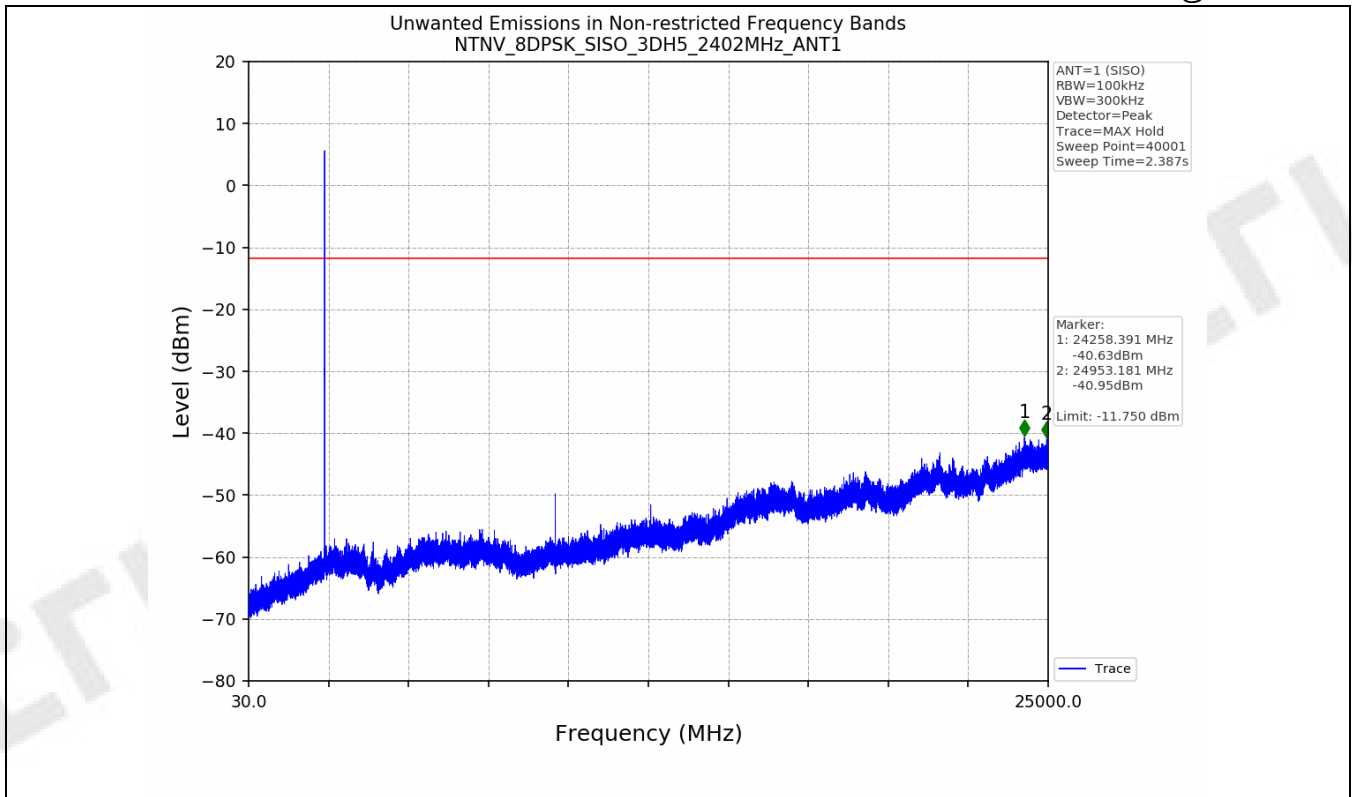




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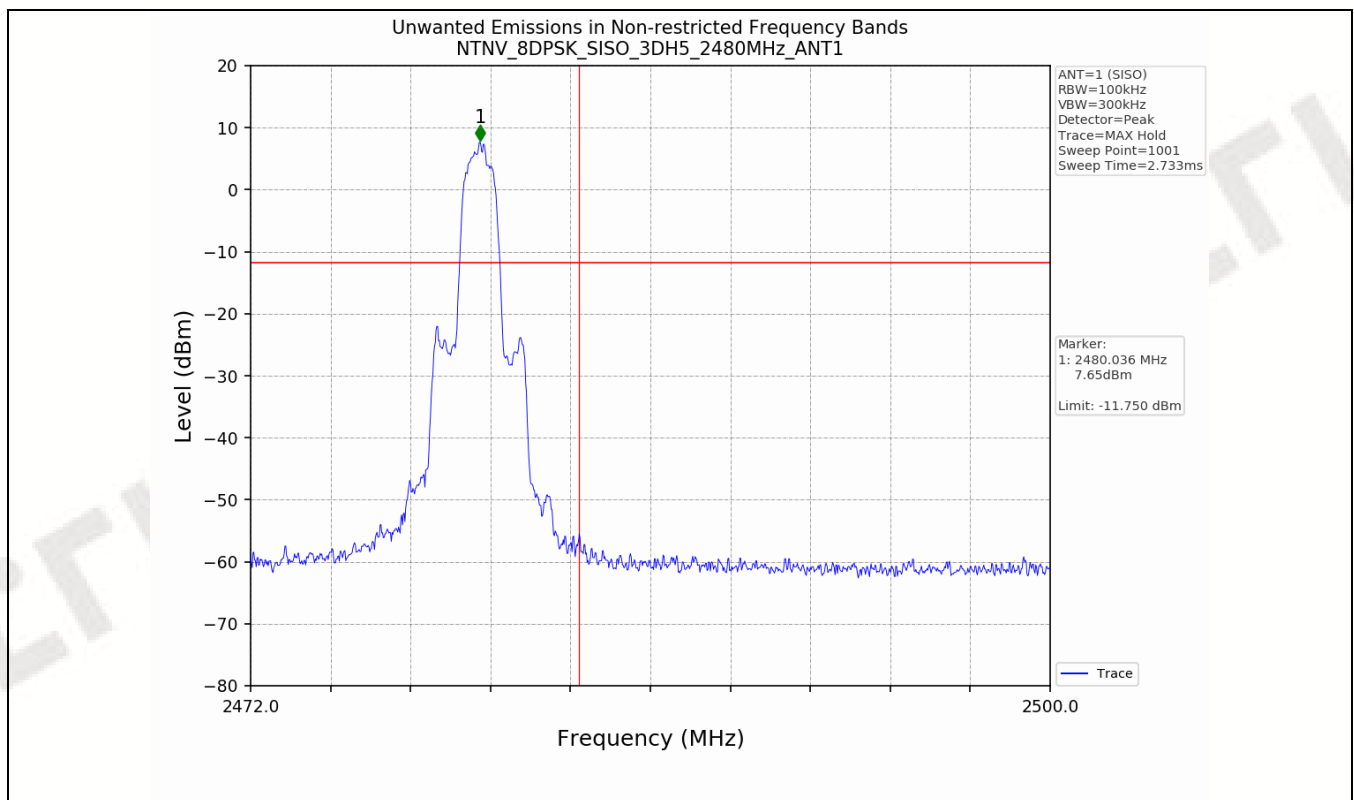


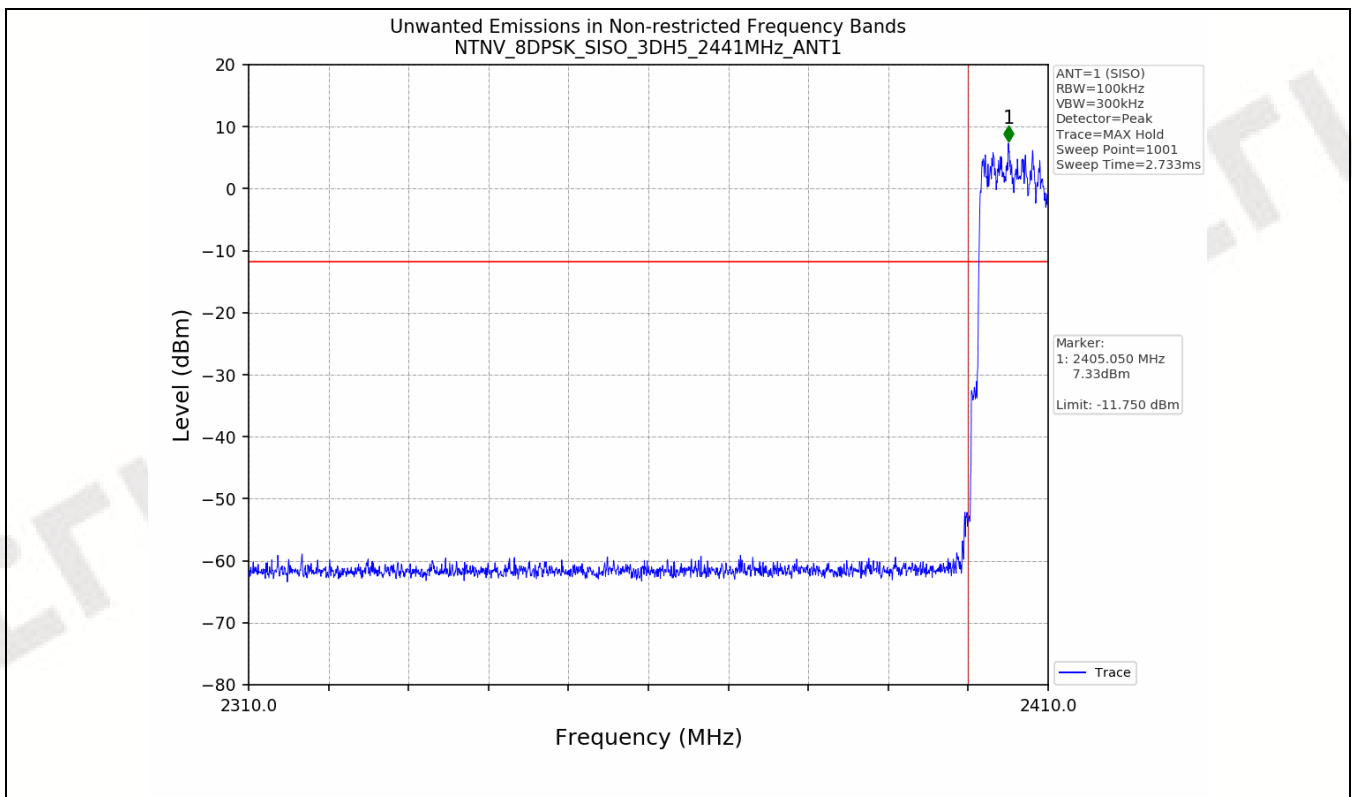
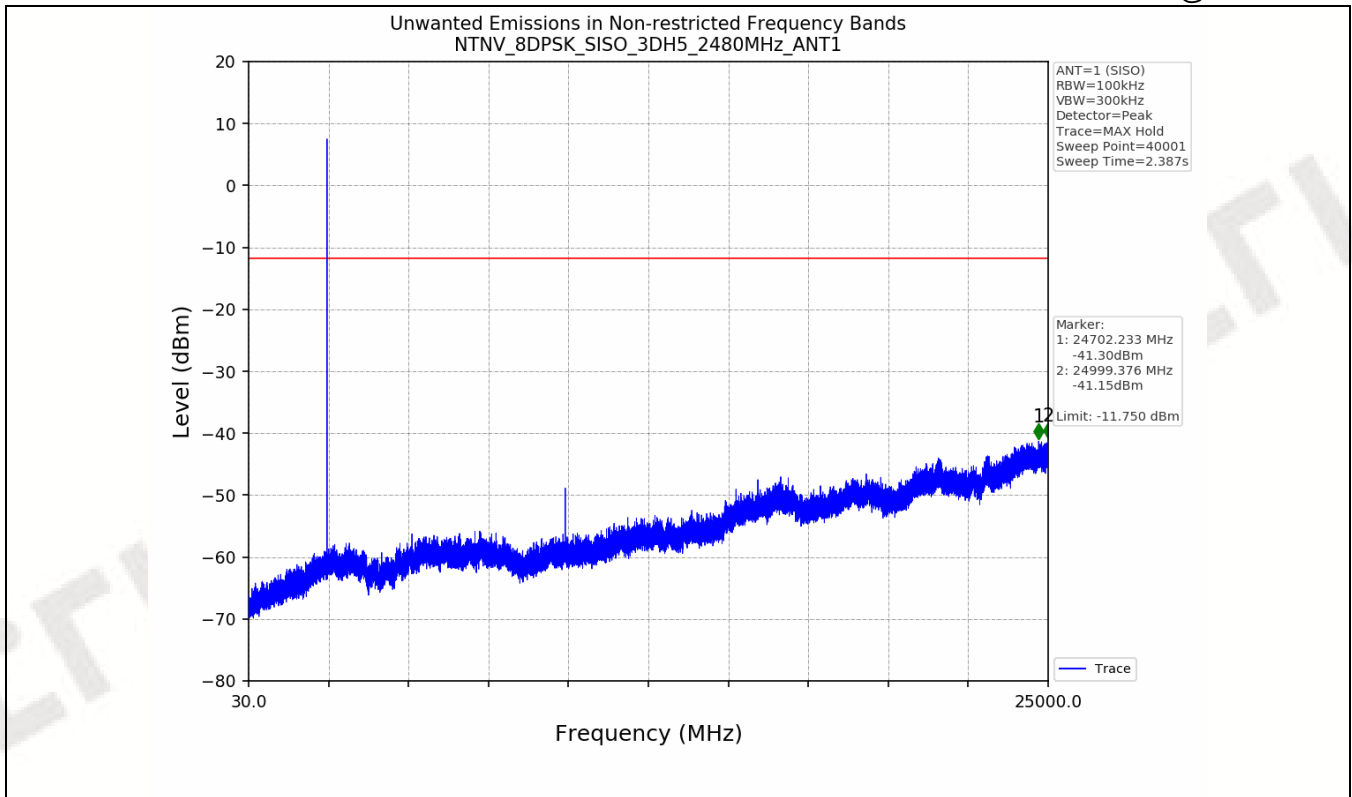


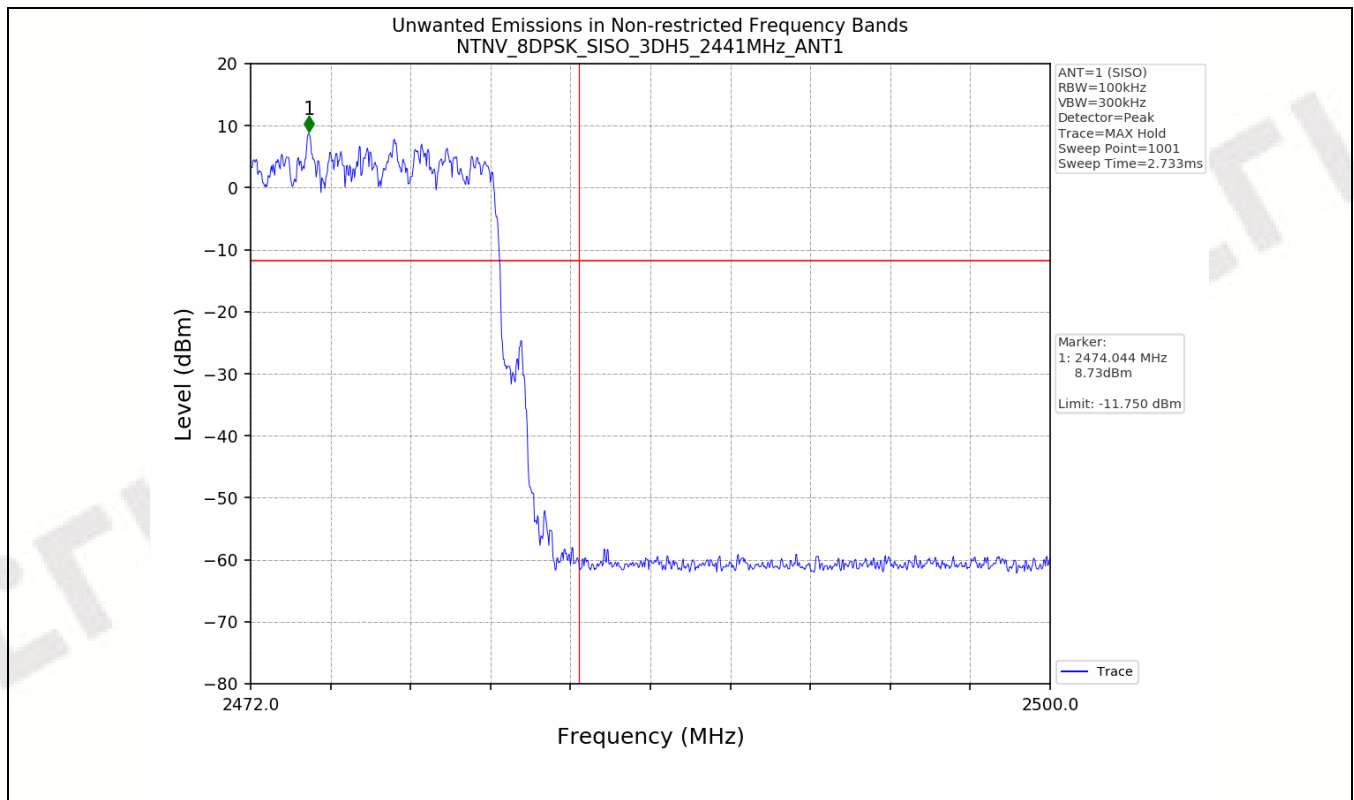


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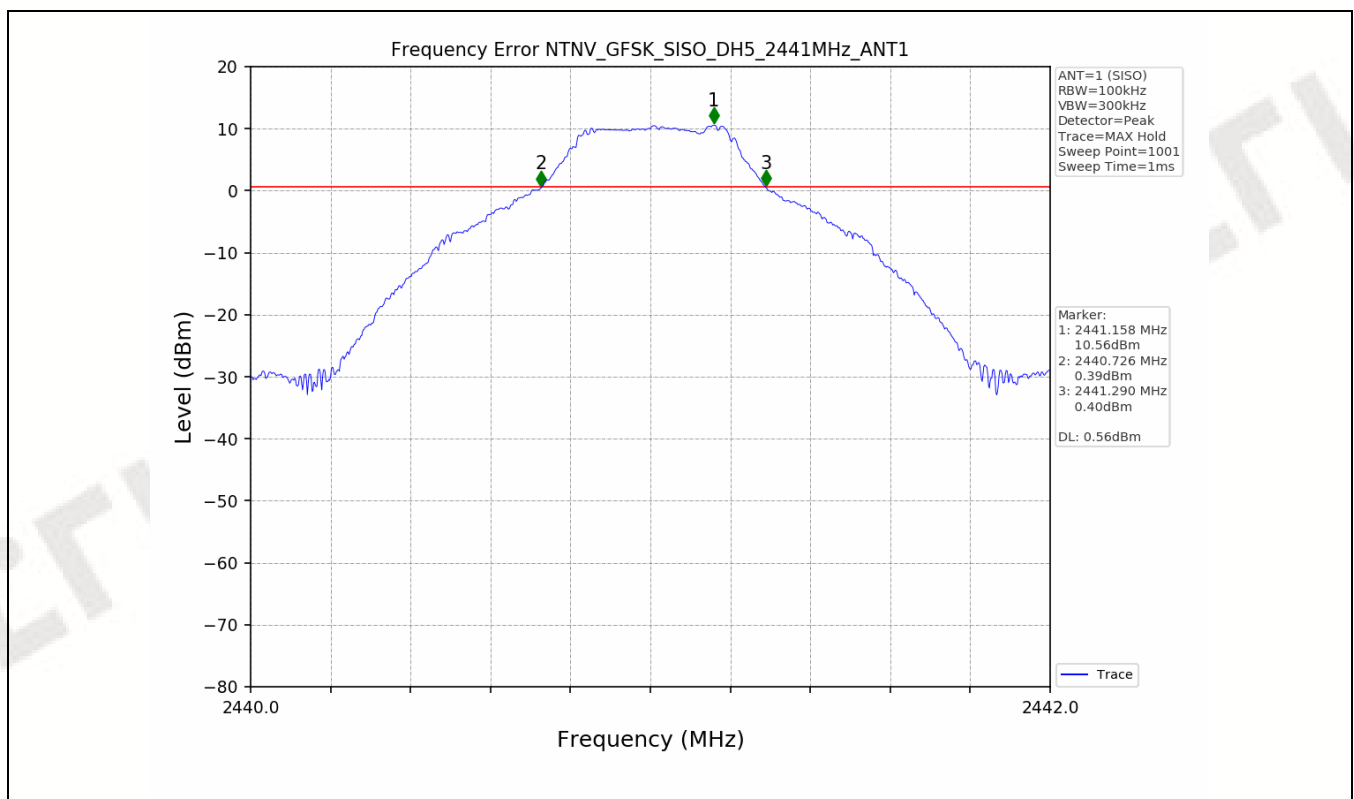
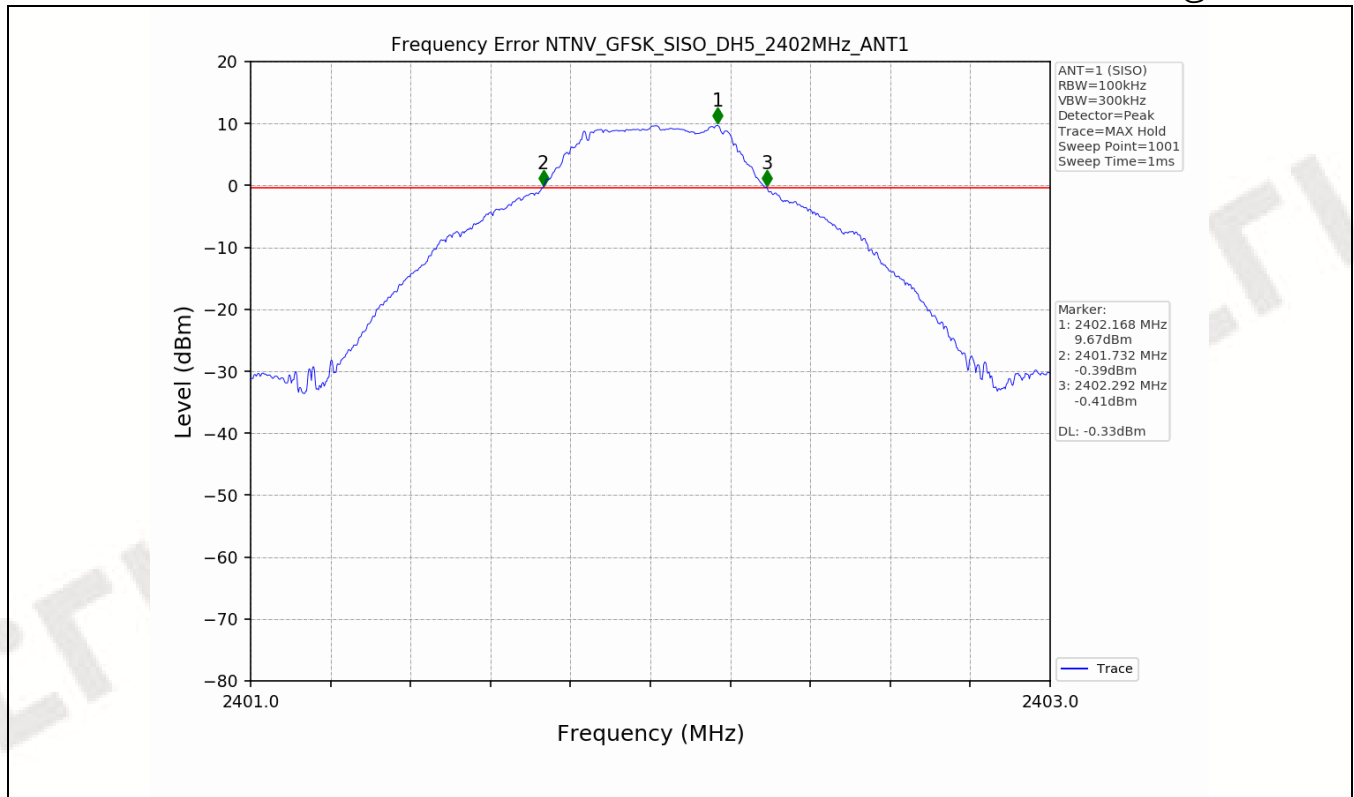


7. Frequency Error

7.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT	Measured Frequency (MHz)		Verdict
				Test Result	Limit	
GFSK	2402	SISO	1	2402.01	2400-2483.5	PASS
	2441	SISO	1	2441.01	2400-2483.5	PASS
	2480	SISO	1	2480.01	2400-2483.5	PASS
Pi/4DQPSK	2402	SISO	1	2402.01	2400-2483.5	PASS
	2441	SISO	1	2441.01	2400-2483.5	PASS
	2480	SISO	1	2480.00	2400-2483.5	PASS

7.2 Test Graph





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