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Appendix J for KSCR2208001465AT

- 1. Out of band rejection
- 1.1 Band26b
- 1.1.1 Test Result

	Band: 26b / NTNV								
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict		
CW	819 - 944	SISO	1	882.500	868.375	894.875	Pass		



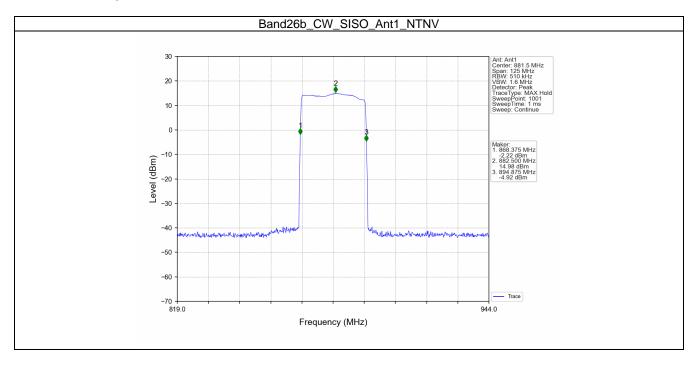
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1.1.2 Test Graph





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2. AGC threshold

2.1 Band26b

2.1.1 Test Result

	Band: 26b / NTNV									
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict					
AWGN	882.5	SISO	1	-2.20	Pass					
GMSK	882.5	SISO	1	-2.20	Pass					

3. Input-versus-output signal comparison

3.1 Band26b_OBW

3.1.1 Test Result

	Band: 26b / NTNV										
	Signal			ANT	99% OB'	Verdict					
Type	Level (dBm)	Frequency (MHz)	TX Type	AINT	Output	Input	verdict				
AWGN	-0.2	882.5	SISO	1	4.527	4.537	Pass				
AWGN	-3.2	882.5	SISO	1	4.533	4.532	Pass				
GMSK	0.8	882.5	SISO	1	0.243	0.245	Pass				
GIVISK	-2.2	882.5	SISO	1	0.245	0.245	Pass				



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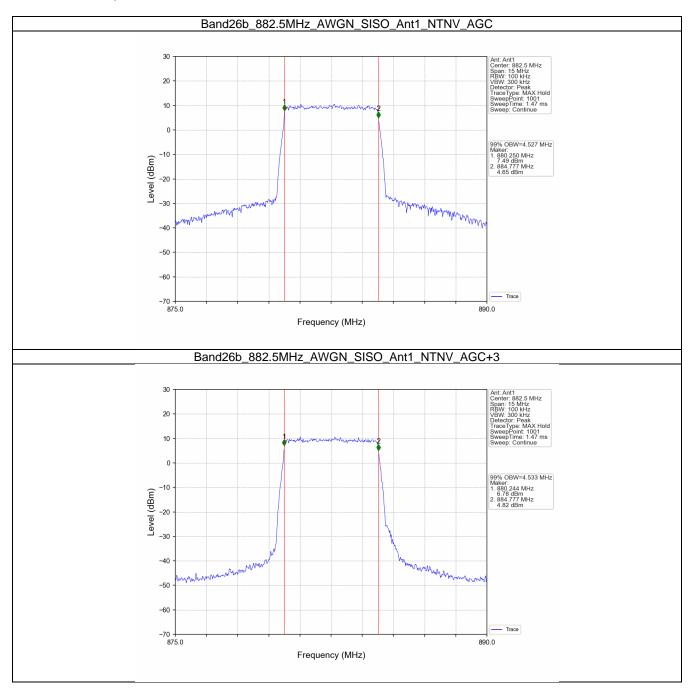
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3.1.2 Test Graph



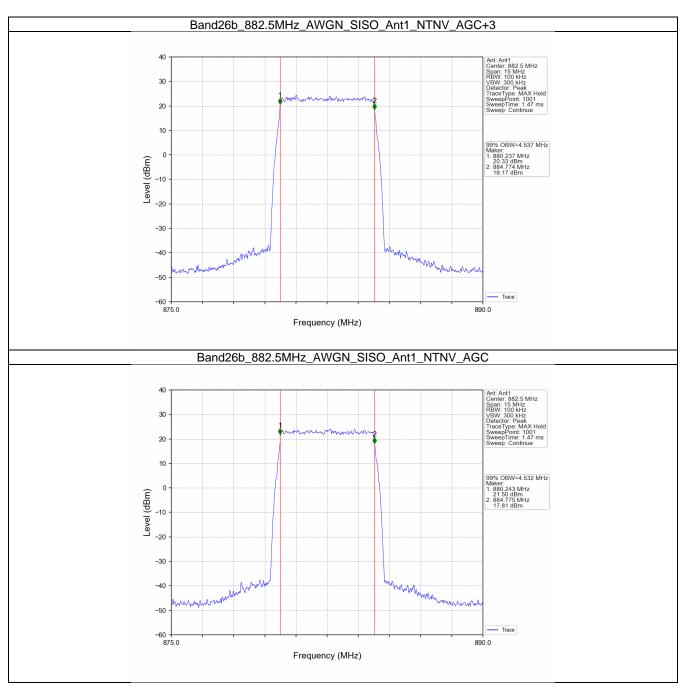


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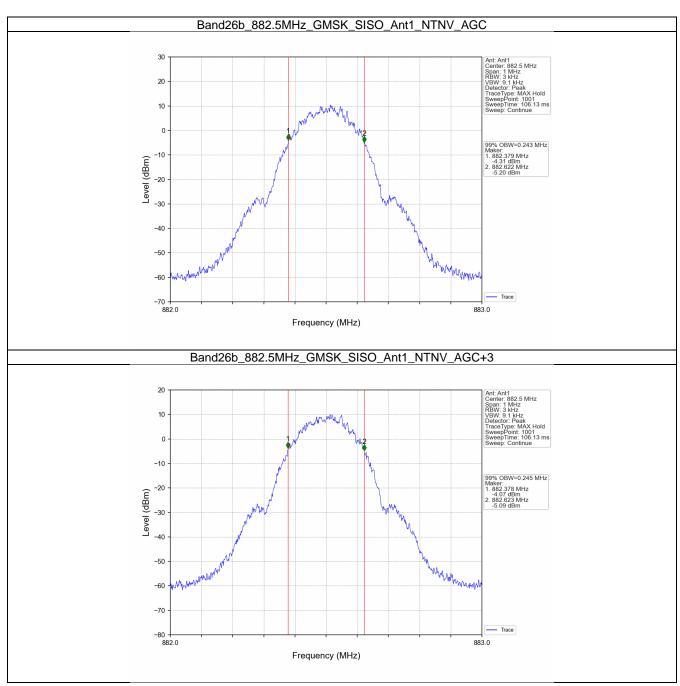
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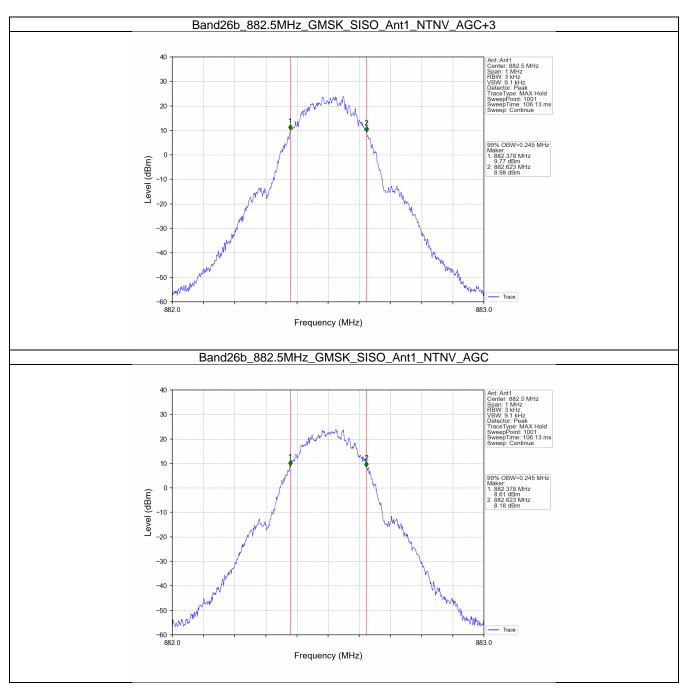


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3.2 Band26b_EBW

3.2.1 Test Result

	Band: 26b / NTNV										
	Signal			ANT	26dB EB	Verdict					
Type	Level (dBm)	Frequency (MHz)	TX Type	AINT	Output	Input	verdict				
AWGN	-0.2	882.5	SISO	1	5.058	5.063	Pass				
AWGN	-3.2	882.5	SISO	1	5.058	5.043	Pass				
GMSK	8.0	882.5	SISO	1	0.315	0.314	Pass				
GIVISK	-2.2	882.5	SISO	1	0.315	0.313	Pass				



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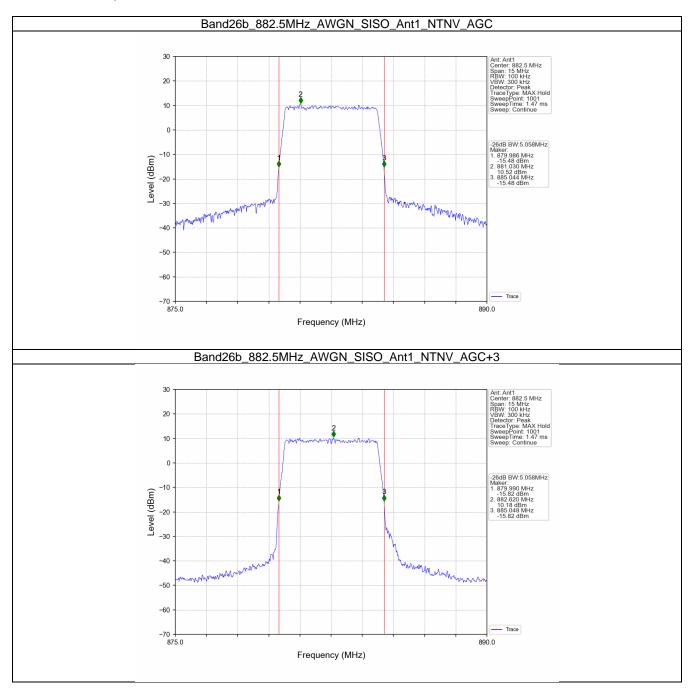
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3.2.2 Test Graph



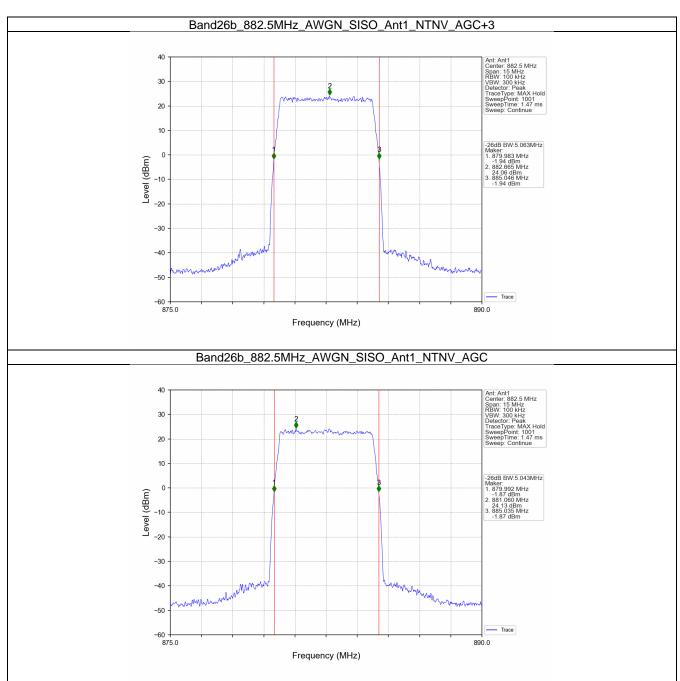


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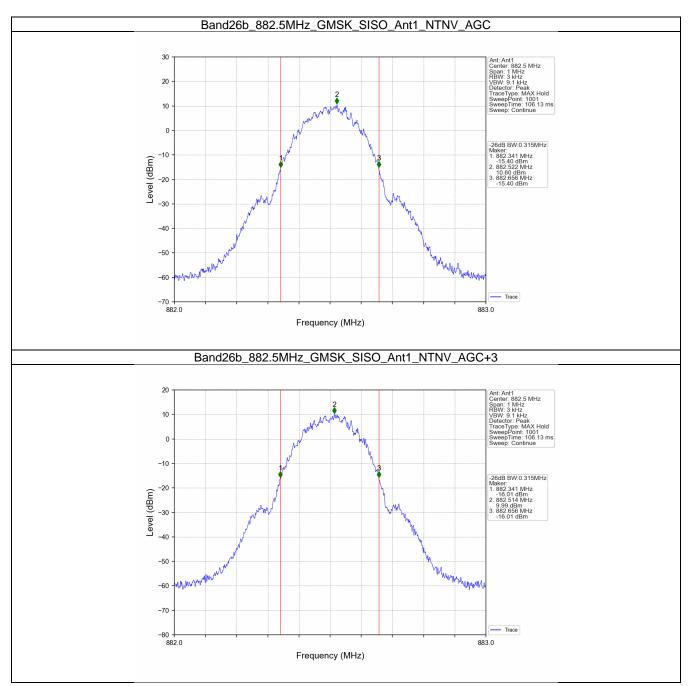
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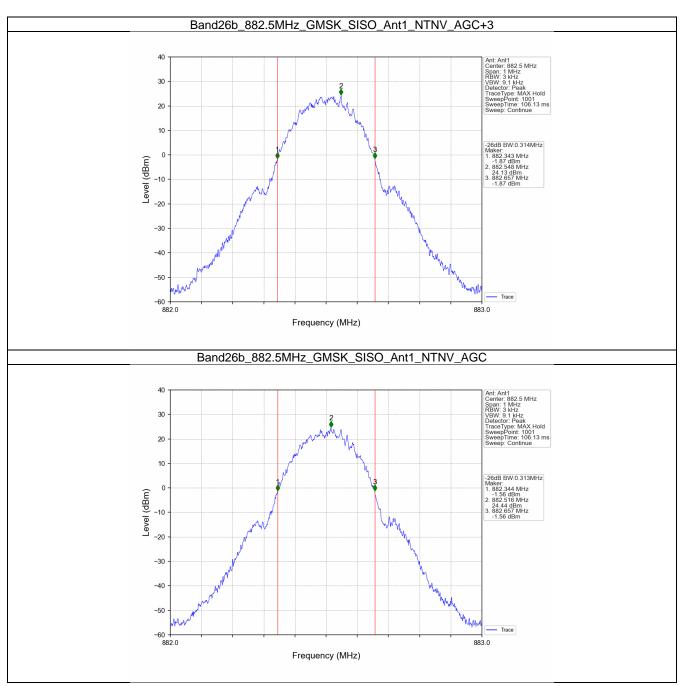


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- 4. Input/output power and amplifier/booster gain
- 4.1 Band26b ERP

4.1.1 Test Result

				8	869MHz-894N	MHz / NTNV						
Operation Frequence Band (MHz)	Frequency	Signal Type	Signal Level	Input Power			ed Power 3m)		Total Output	ERP	Gain (dB)	
	(MHz)		(dBm)	(dBm)	Ant 1	Ant 2	Ant 3	Ant 4	Power (dBm)	(dBm)		
	SISO mode											
		AWGN	Pre-AGC	-2.2	16.33				16.33	17.11	17.9	
869MHz-			3dB Above AGC	0.8	17.05				17.05	17.83	/	
894MHz	882.5		Pre-AGC	-2.2	17.87				17.87	18.65	18.94	
		GMSK	3dB Above AGC	0.8	17.96				17.96	18.74	/	

				3	869MHz-894I	MHz / NTNV					
Operation	Frequency	Signal		Input Power	·		(dBm)	ERP (dBm)			Gain
Band (MHz)	Туре	(dBm)	(dBm)	SISO	2X2 MIMO	4X4 MIMO	SISO	2X2 MIMO	4X4 MIMO	(dB)	
MIMO mode											
		AWGN	Pre-AGC	-2.2	16.33	19.34	22.35	17.11	20.12	23.13	/
869MHz-			3dB Above AGC	0.8	17.05	20.06	23.07	17.83	20.84	23.85	/
894MHz	882.5		Pre-AGC	-2.2	17.87	20.88	23.89	18.65	21.66	24.67	/
		GMSK	3dB Above AGC	0.8	17.96	20.97	23.98	18.74	21.75	24.76	/

4.1.2 Test Graph

Band26b 882.5MHz AWGN SISO Ant1 NTNV AGC

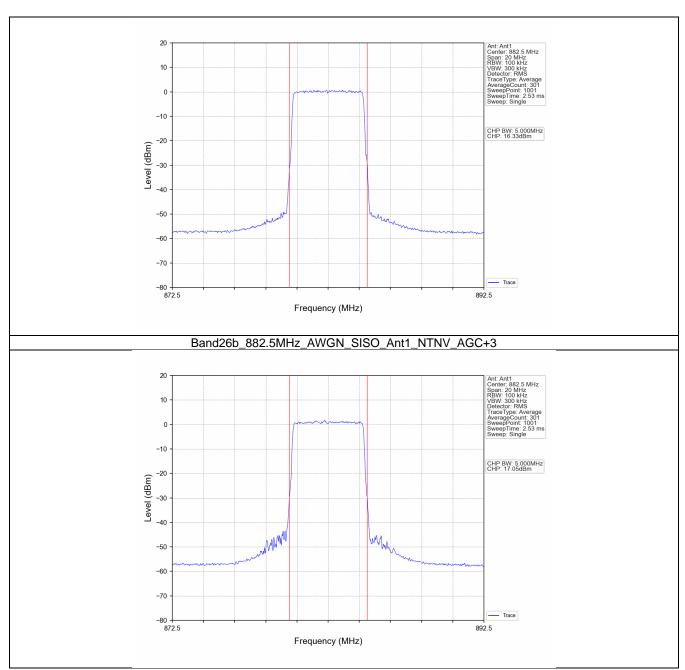


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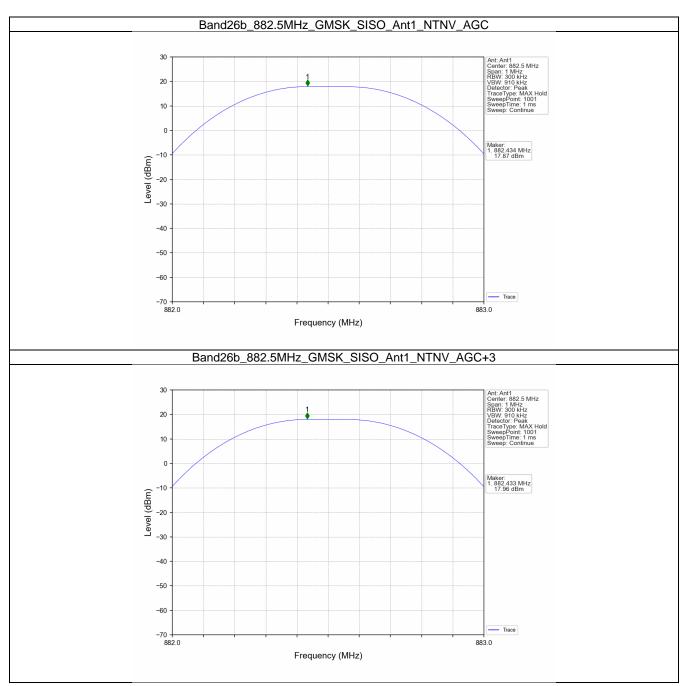
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4.2 Band26b_PAPR

4.2.1 Test Result

	Band: 26b / NTNV											
	Signal			ANT	PAPF	\/						
Type	Level (dBm)	Frequency (MHz)	TX Type	ANI	Result	Limit	Verdict					
AWGN	-2.2	882.5	SISO	1	8.24	<=13	Pass					
AWGN	0.8	882.5	SISO	1	8.19	<=13	Pass					
GMSK	-2.2	882.5	SISO	1	0.47	<=13	Pass					
GIVISK	0.8	882.5	SISO	1	0.28	<=13	Pass					



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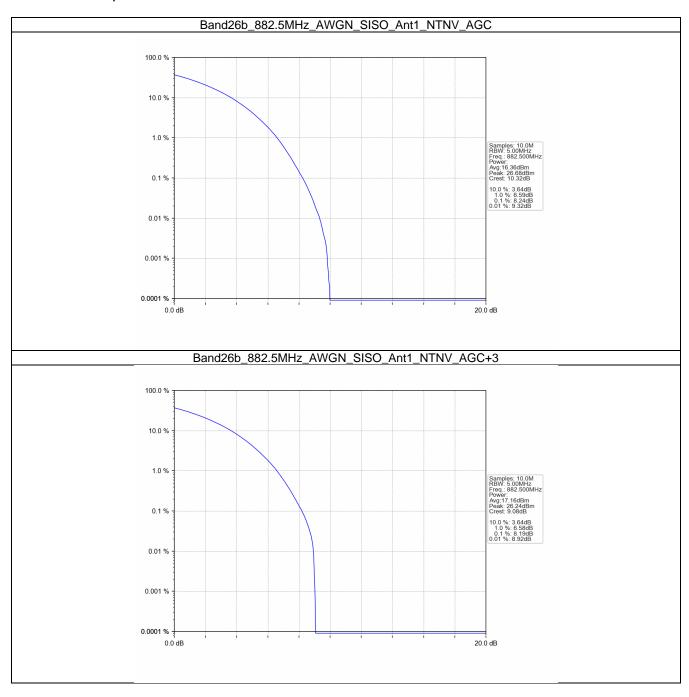
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4.2.2 Test Graph





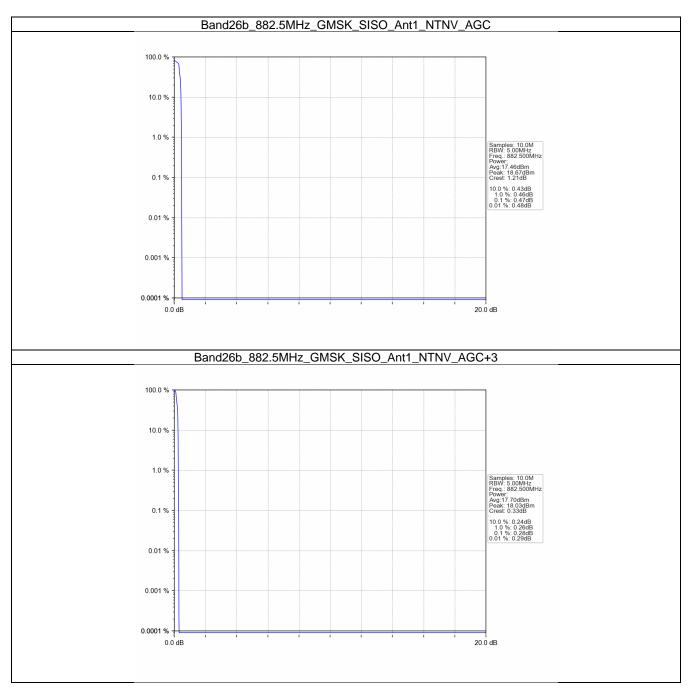
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5. Out-of-band/out-of-block (including intermodulation) emissions

5.1 Band26b

5.1.1 Test Result

				Band: 26	b / NTNV					
		Signal		Channal	TV Type	ANT		OOB (dBm)	Verdict	
Input	Type	Level (dBm)	Frequency (MHz)	Channel	TX Type	AINI	Result	Limit	verdict	
Two	AWGN	-2.2	871.5	LCH	SISO	1	-74.55	Refer To Test Graph	Pass	
TWO	AWGIN	0.8	871.5	LCH	SISO	1	-74.06	Refer To Test Graph	Pass	
One	AWGN	-2.2	871.5	LCH	SISO	1	-74.07	Refer To Test Graph	Pass	
Offe	e Awgiv	0.8	871.5	LCH	SISO	1	-74.47	Refer To Test Graph	Pass	
Two	AWGN	-2.2	891.5	HCH	SISO	1	-74.33	Refer To Test Graph	Pass	
TWO	AWGIN	0.8	891.5	HCH	SISO	1	-74.53	Refer To Test Graph	Pass	
One	AWGN	-2.2	891.5	HCH	SISO	1	-74.39	Refer To Test Graph	Pass	
One	AWGIN	0.8	891.5	HCH	SISO	1	-74.38	Refer To Test Graph	Pass	
Two	GMSK	-2.2	869.1	LCH	SISO	1	-86.43	Refer To Test Graph	Pass	
TWO	GIVION	0.8	869.1	LCH	SISO	1	-86.44	Refer To Test Graph	Pass	
One	GMSK	-2.2	869.1	LCH	SISO	1	-86.23	Refer To Test Graph	Pass	
Offe	GIVION	0.8	869.1	LCH	SISO	1	-86.08	Refer To Test Graph	Pass	
Two	CMCK	-2.2	893.9	HCH	SISO	1	-86.55	Refer To Test Graph	Pass	
i wo	Two GMSK	0.8	893.9	HCH	SISO	1	-86.43	Refer To Test Graph	Pass	
One	GMSK	-2.2	893.9	HCH	SISO	1	-86.14	Refer To Test Graph	Pass	
One	GIVION	0.8	893.9	HCH	SISO	1	-86.35	Refer To Test Graph	Pass	



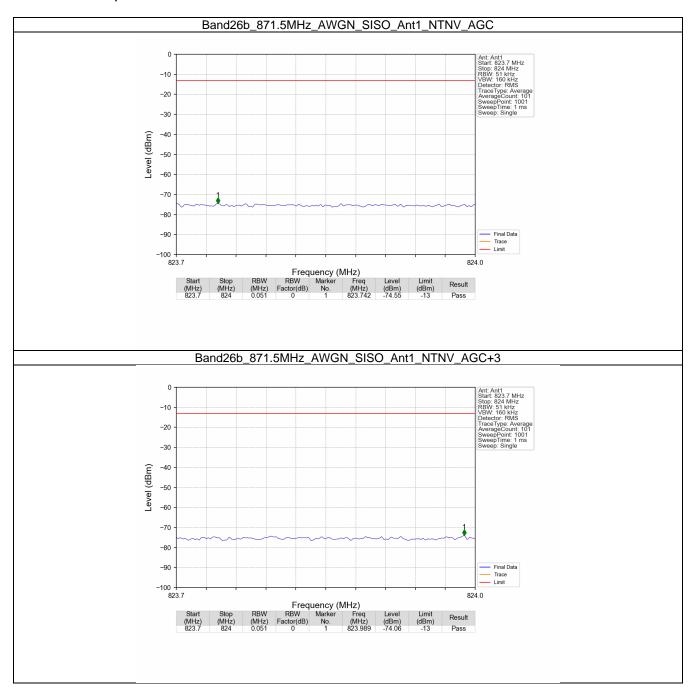
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5.1.2 Test Graph



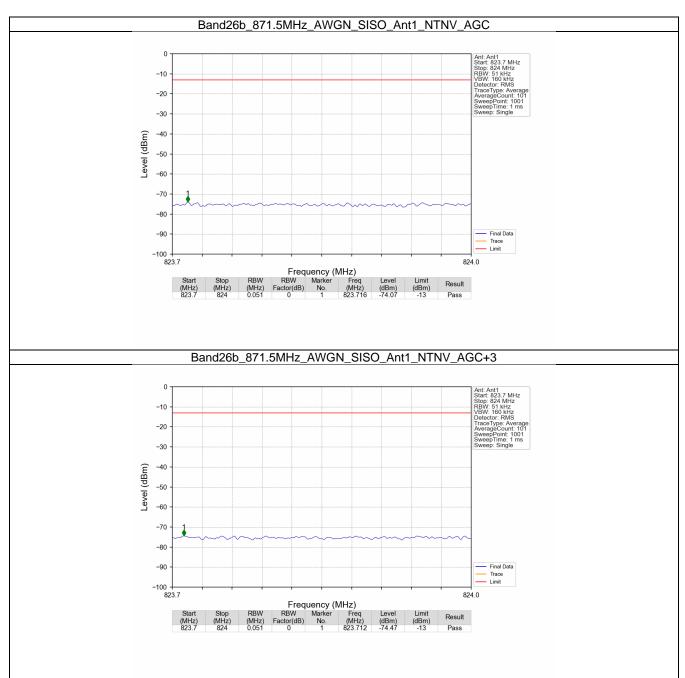


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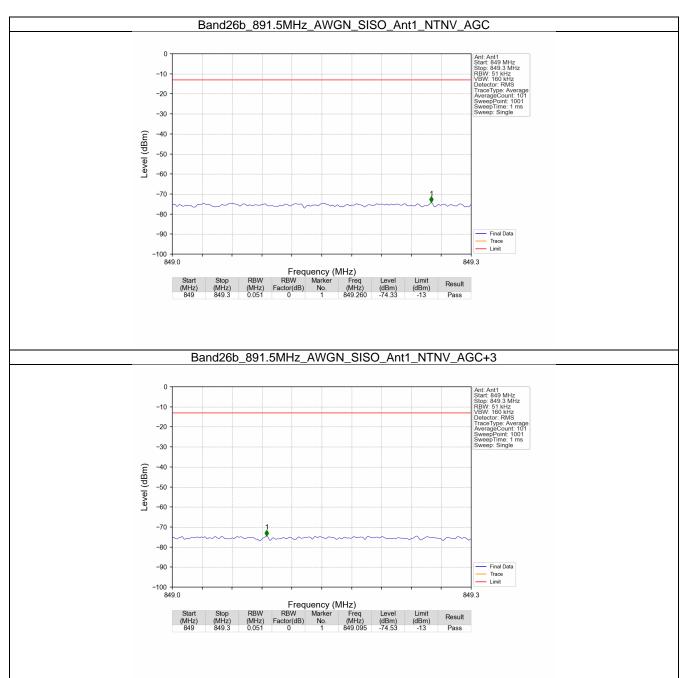


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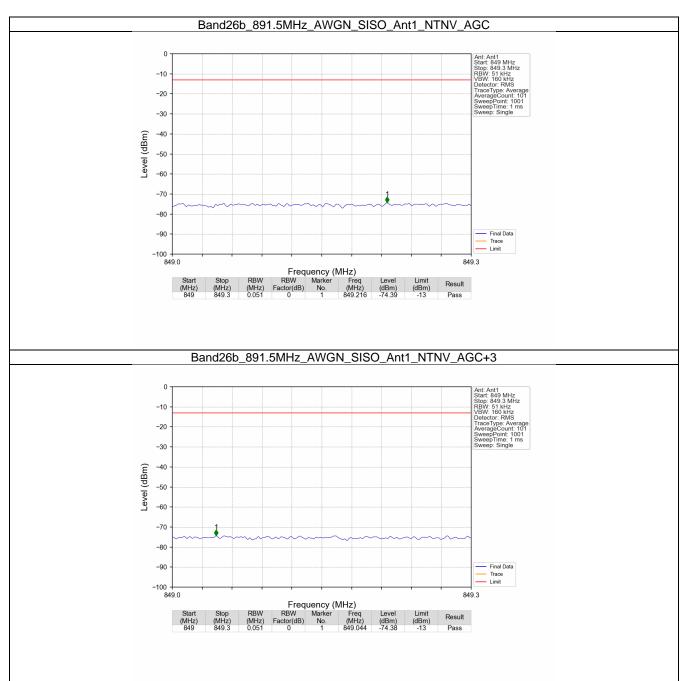


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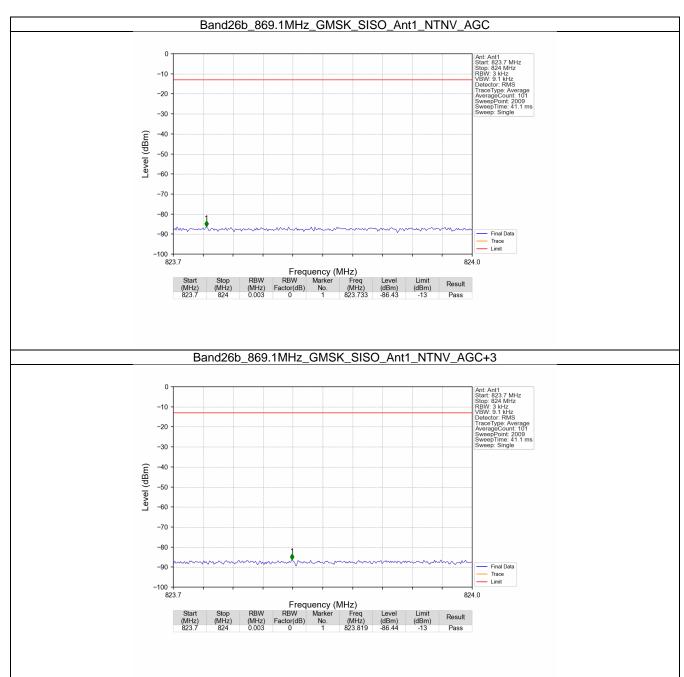


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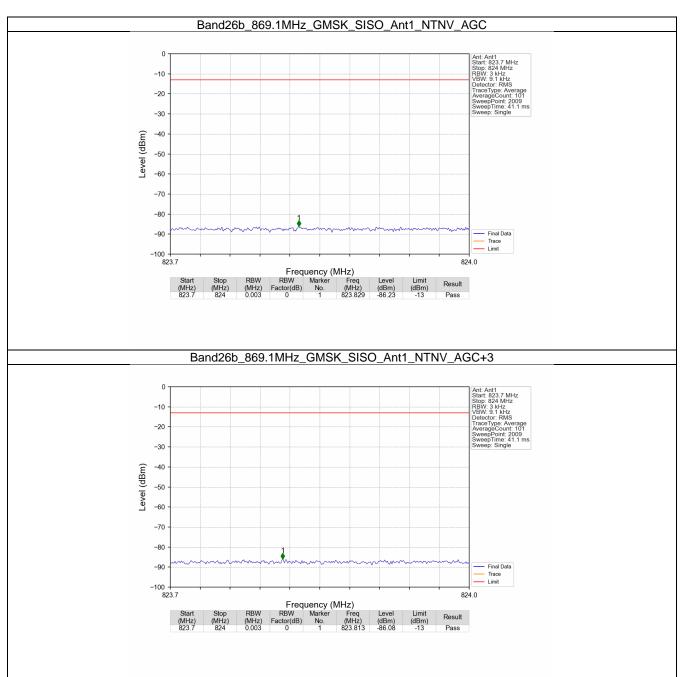
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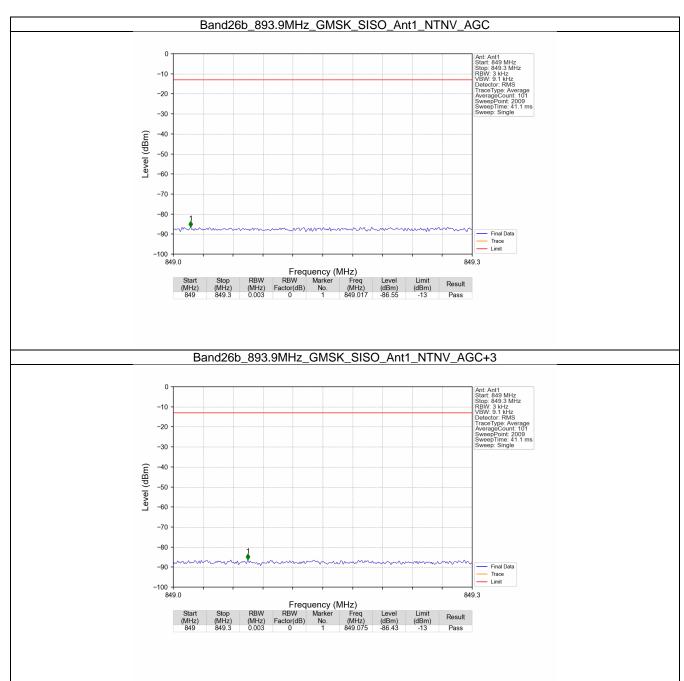
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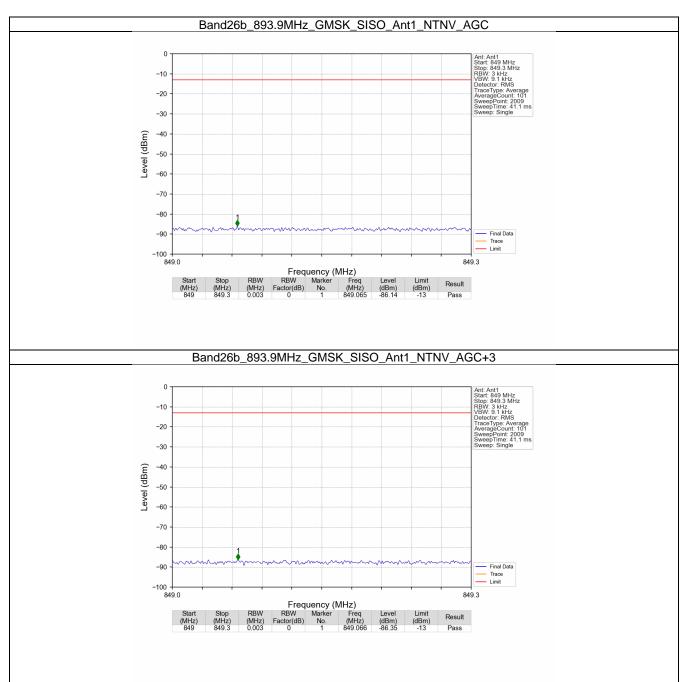


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6. Spurious emissions

6.1 Band26b

6.1.1 Test Result

			Bar	nd: 26b / NT	NV		
	Signal			TV T	ANIT	SE (dBm)	Vardiet
Type	Level (dBm)	Frequency (MHz)	Channel	el TX Type ANT		Result Limit	Verdict
		871.5	LCH	SISO	1	Refer To Test Graph	Pass
AWGN	-3.2	881.5	MCH	SISO	1	Refer To Test Graph	Pass
		891.5	HCH	SISO	1	Refer To Test Graph	Pass
		869.1	LCH	SISO	1	Refer To Test Graph	Pass
GMSK	-2.2	881.5	MCH	SISO	1	Refer To Test Graph	Pass
		893.9	HCH	SISO	1	Refer To Test Graph	Pass



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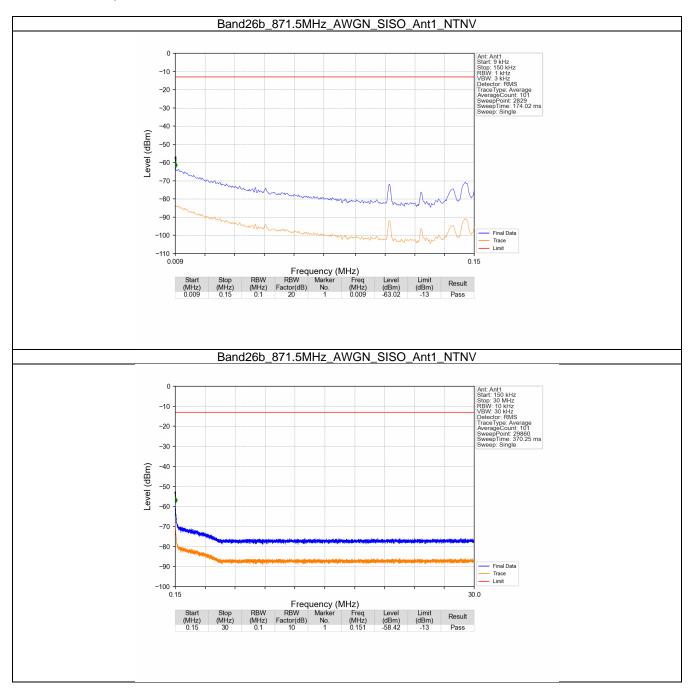
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6.1.2 Test Graph





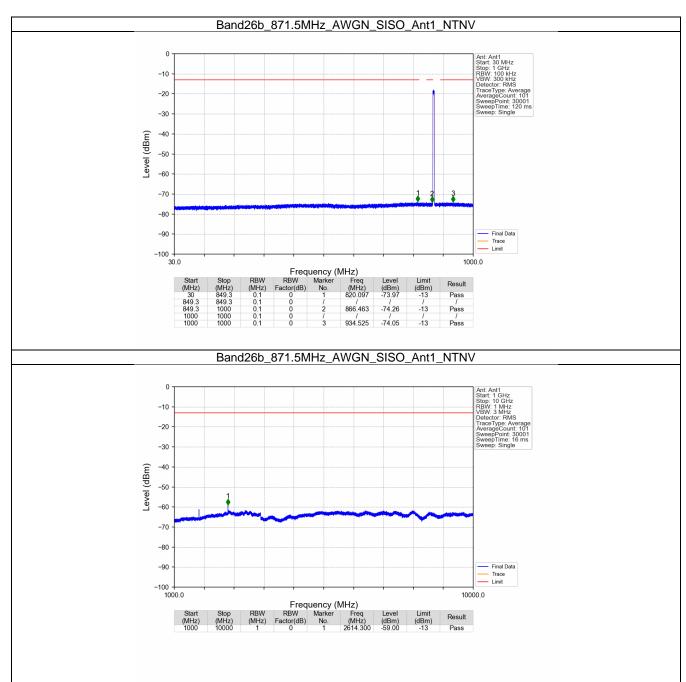
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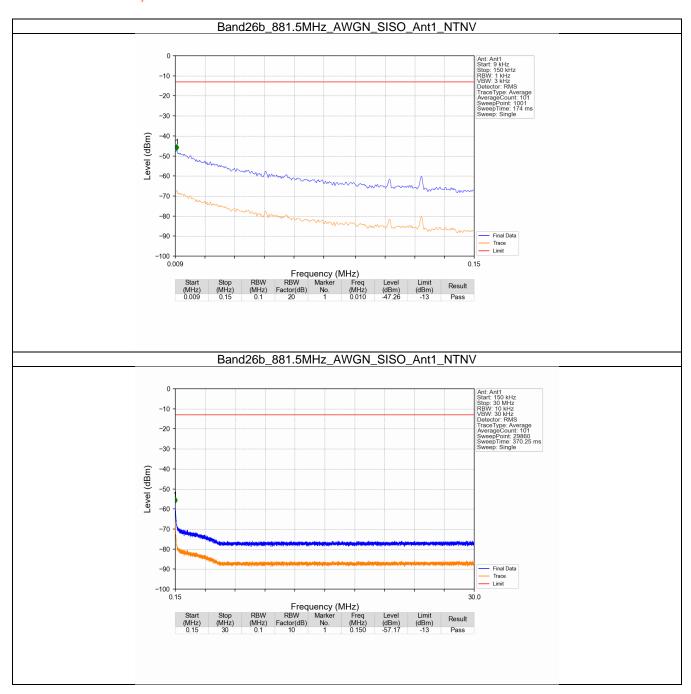


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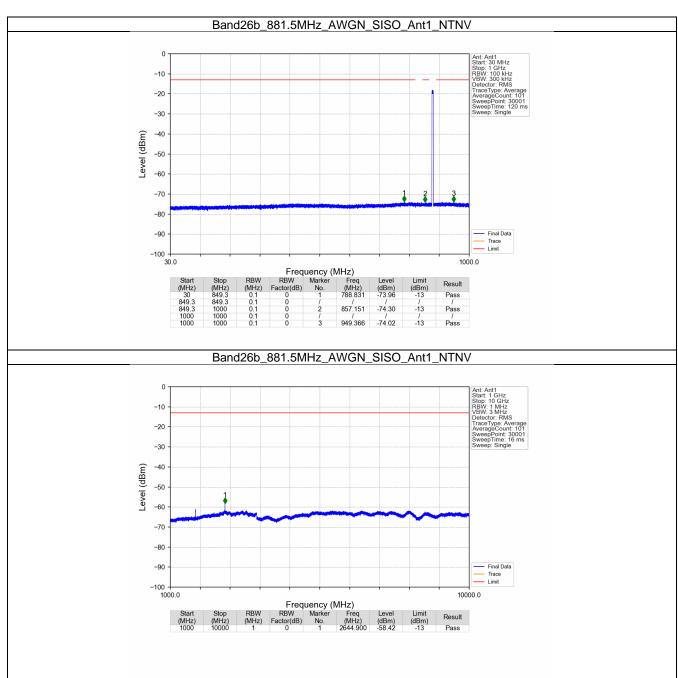


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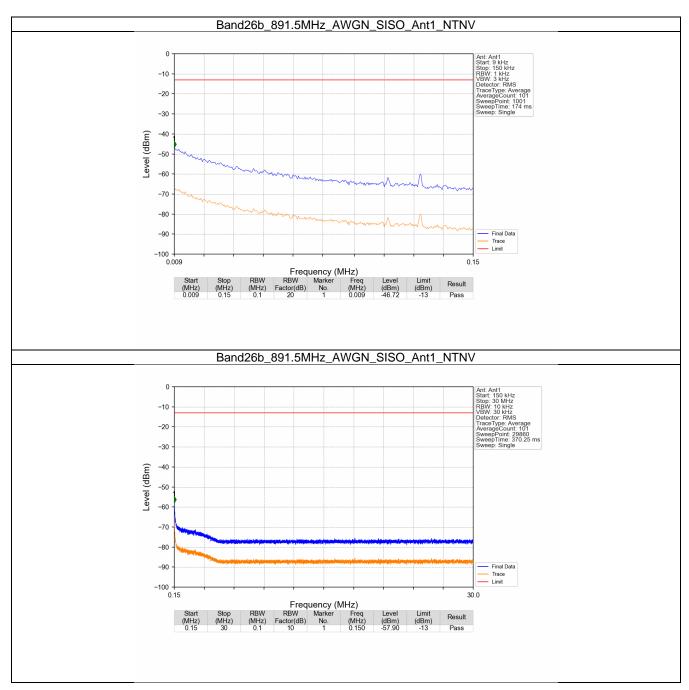


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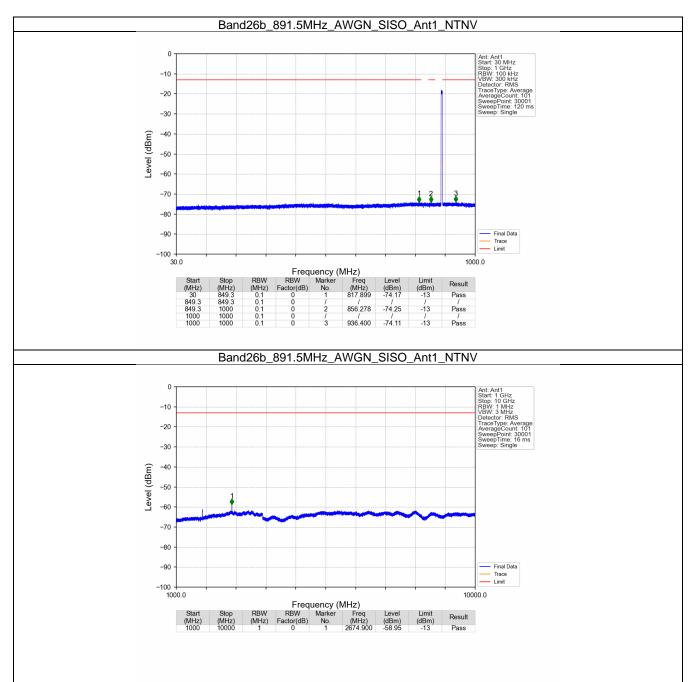
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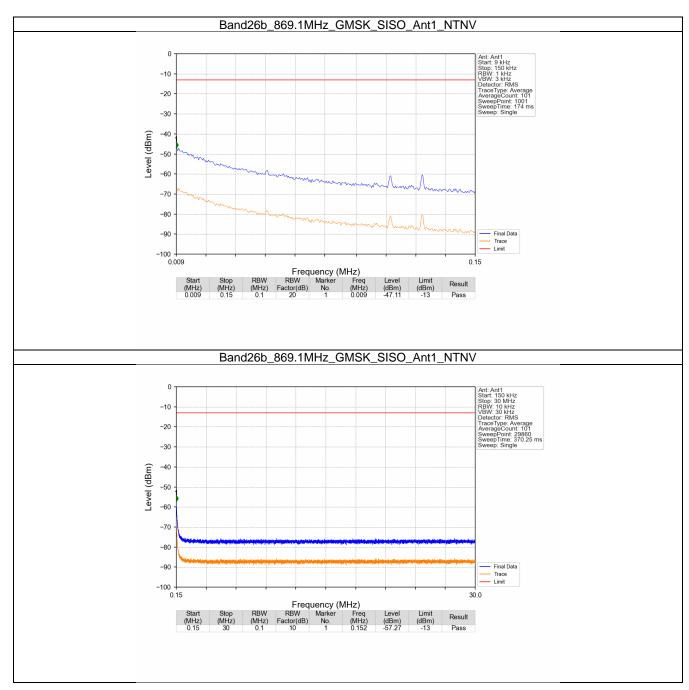


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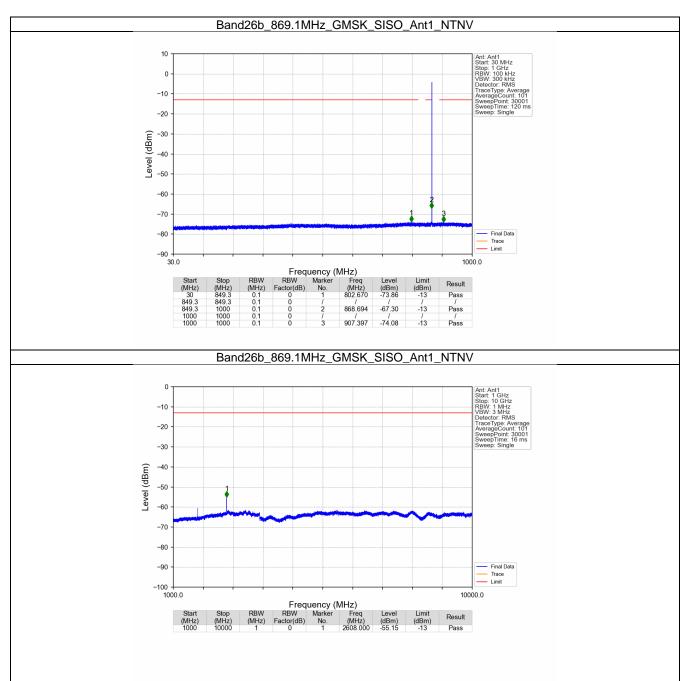


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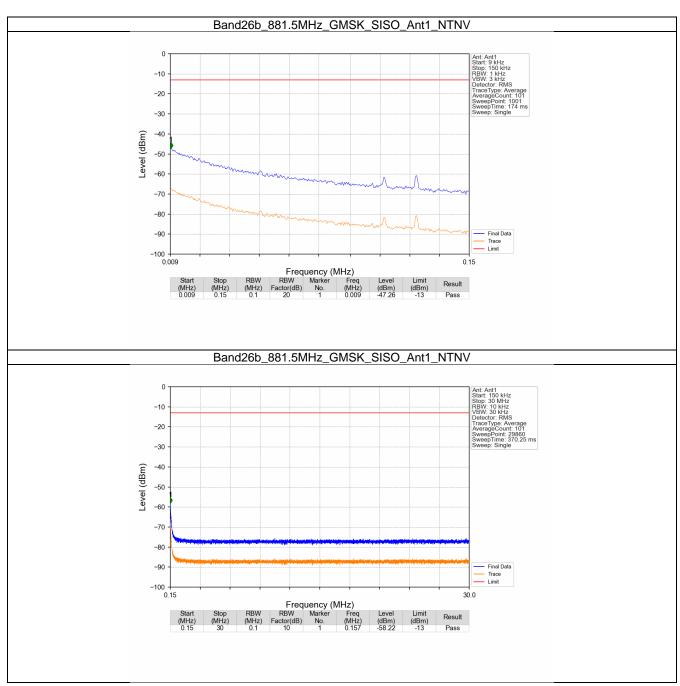


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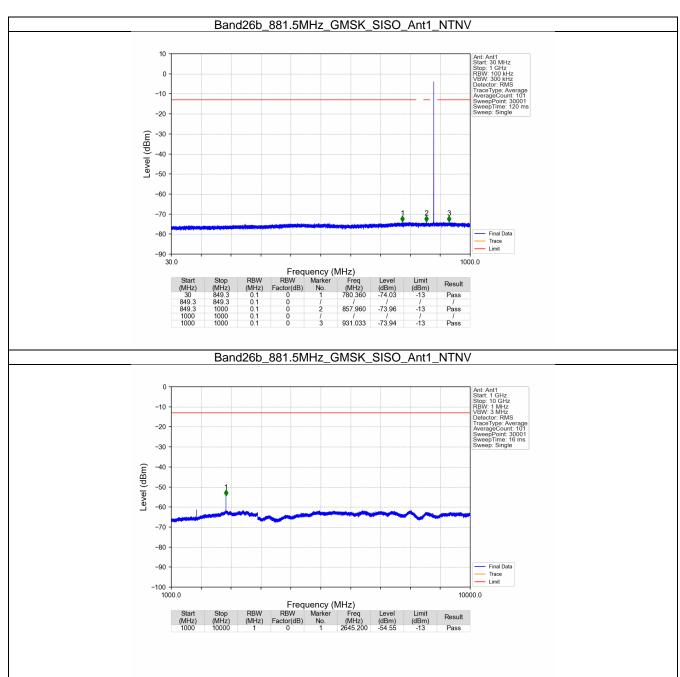
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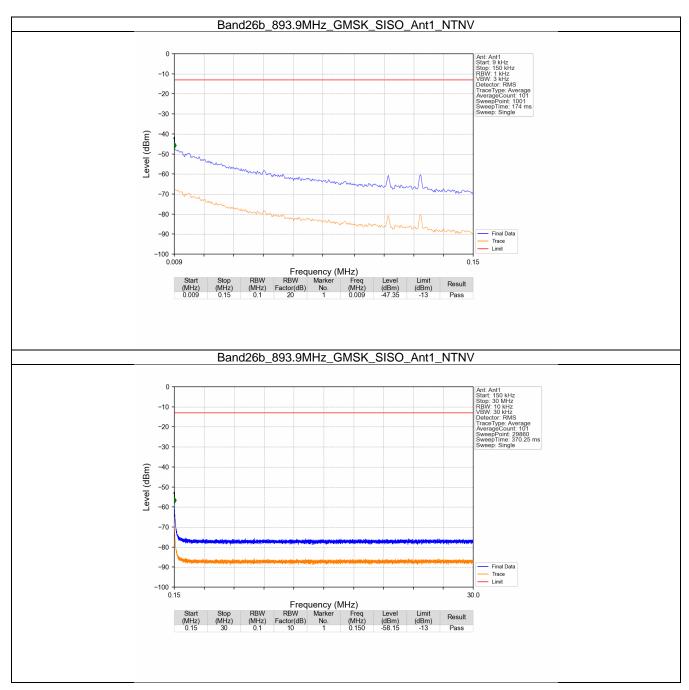


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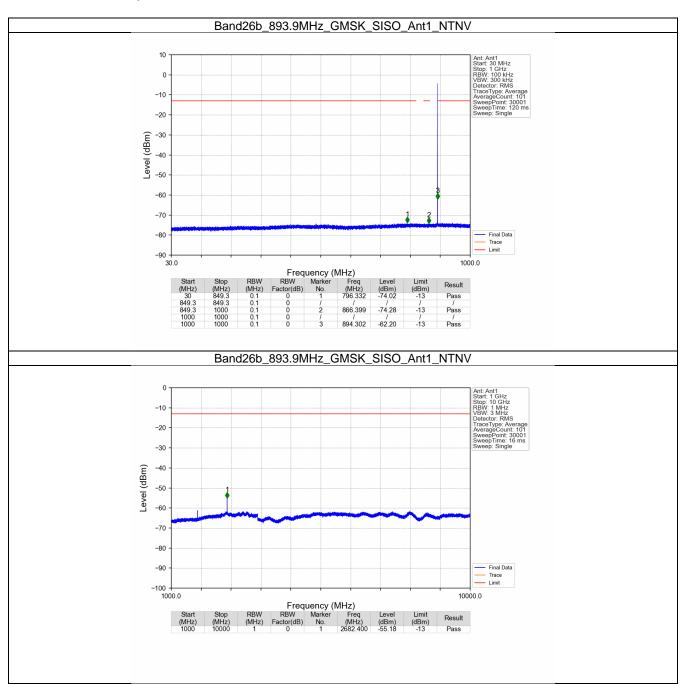


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7. Frequency stability measurements

7.1 Band26b_Ant1

7.1.1 Test Result

			Band: 26b	/ NTNV			
	Signal		Temp	Voltage	Freq. Error	Tolerance	\/
Type	Level (dBm)	Frequency (MHz)	(°C)	(VDC)	(Hz)	(ppm)	Verdict
•	,			40.8	0.00	0.00	Pass
			20	48	0.00	0.00	Pass
				55.2	0.00	0.00	Pass
			-30	48	0.00	0.00	Pass
			-20	48	0.00	0.00	Pass
		869.1	-10	48	0.00	0.00	Pass
			0	48	0.00	0.00	Pass
			10	48	0.00	0.00	Pass
			30	48	0.00	0.00	Pass
			40	48	0.00	0.00	Pass
			50	48	0.00	0.00	Pass
				40.8	0.00	0.00	Pass
			20	48	0.00	0.00	Pass
				55.2	0.00	0.00	Pass
			-30	48	0.00	0.00	Pass
		881.5	-20	48	0.00	0.00	Pass
CW	-2.2		-10	48	0.00	0.00	Pass
			0	48	0.00	0.00	Pass
			10	48	0.00	0.00	Pass
			30	48	0.00	0.00	Pass
			40	48	0.00	0.00	Pass
			50	48	0.00	0.00	Pass
				40.8	0.00	0.00	Pass
			20	48	0.00	0.00	Pass
				55.2	0.00	0.00	Pass
			-30	48	0.00	0.00	Pass
			-20	48	0.00	0.00	Pass
		893.9	-10	48	0.00	0.00	Pass
			0	48	0.00	0.00	Pass
			10	48	0.00	0.00	Pass
			30	48	0.00	0.00	Pass
			40	48	0.00	0.00	Pass
			50	48	0.00	0.00	Pass



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