

Appendix J for KSCR2206001043AT-3550-3700MHz

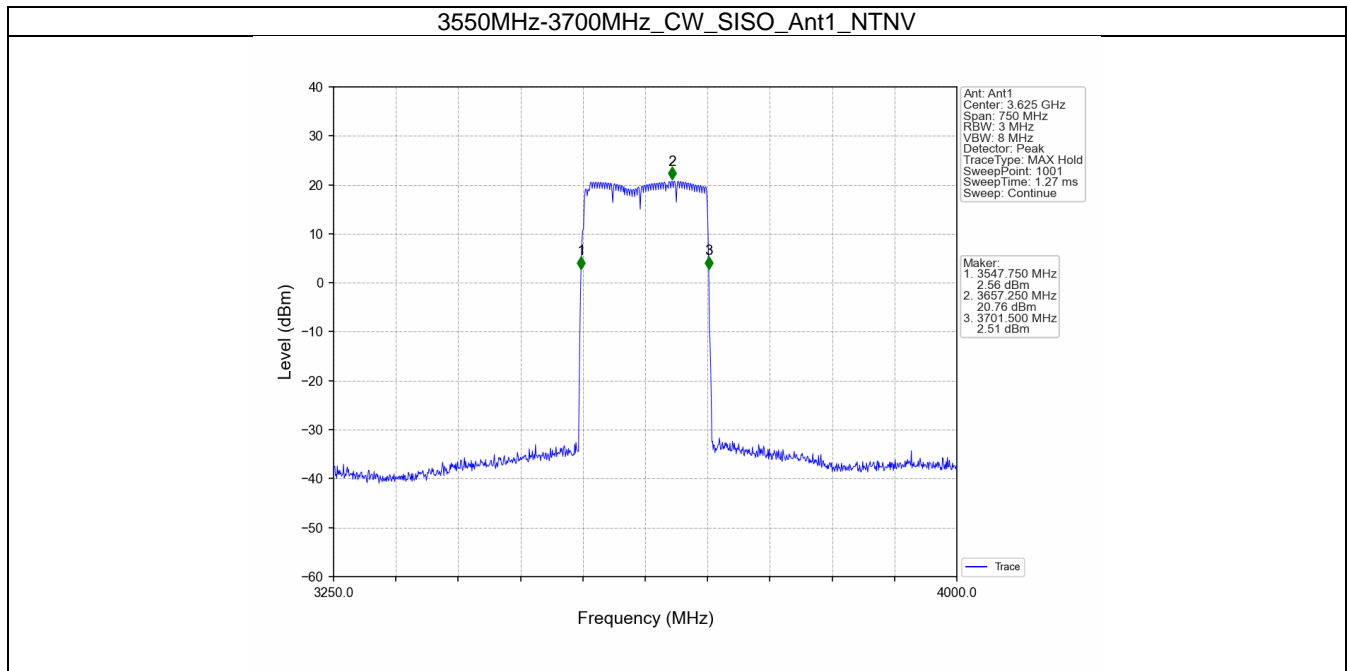
1. Out of band rejection

1.1 3550MHz-3700MHz

1.1.1 Test Result

3550MHz-3700MHz / NTV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	3250 - 4000	SISO	1	3657.250	3547.750	3701.500	Pass

1.1.2 Test Graph



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2. AGC threshold

2.1 3550MHz-3700MHz

2.1.1 Test Result

3550MHz-3700MHz / NTN					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
AWGN	3657.25	SISO	1	-3.70	Pass
GMSK	3657.25	SISO	1	-2.70	Pass

3. Input-versus-output signal comparison

3.1 3550MHz-3700MHz_OBW

3.1.1 Test Result

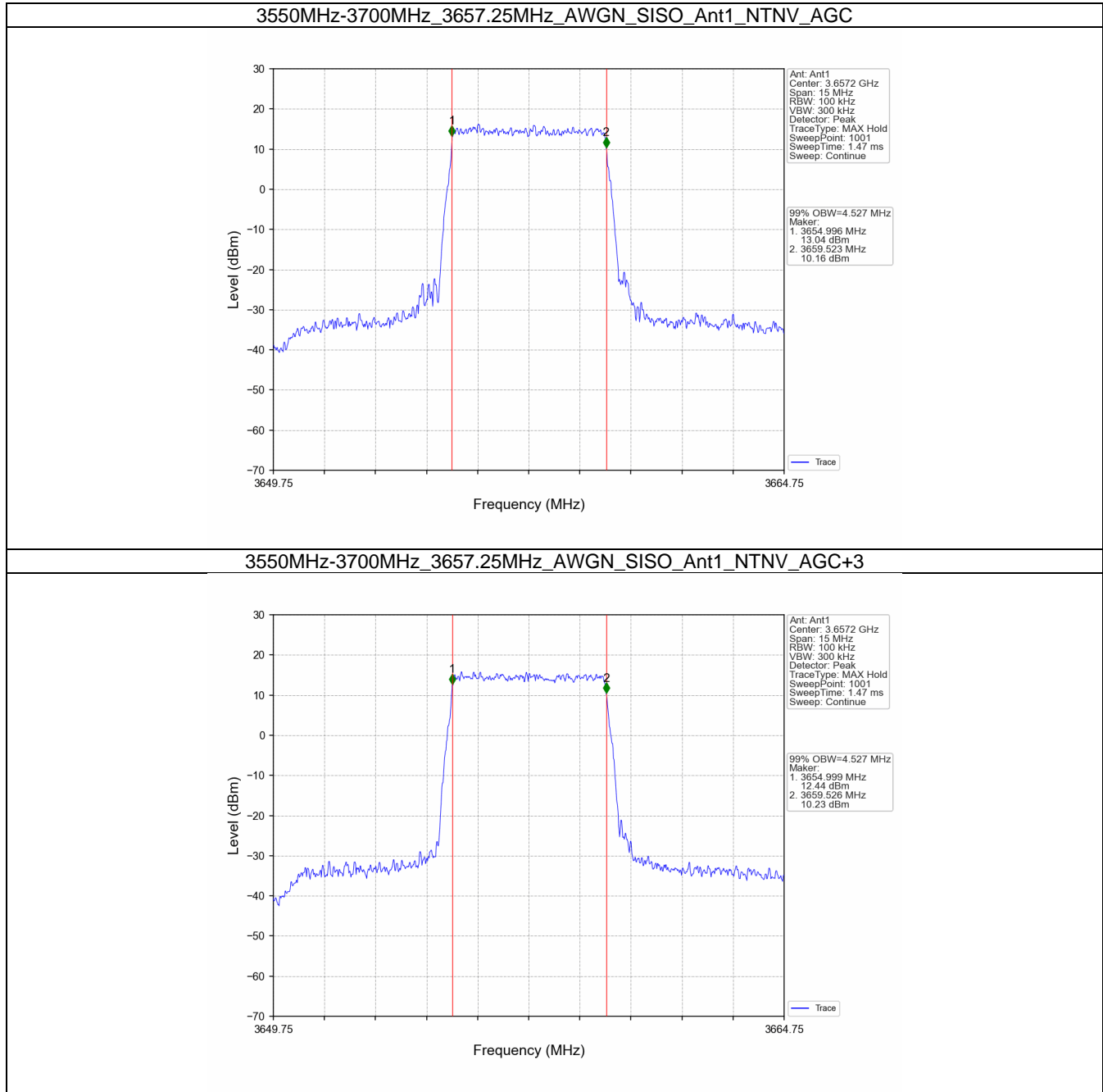
3550MHz-3700MHz / NTN							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	-0.7	3657.25	SISO	1	4.527	4.527	Pass
	-3.7	3657.25	SISO	1	4.527	4.531	Pass
GMSK	0.3	3657.25	SISO	1	0.245	0.245	Pass
	-2.7	3657.25	SISO	1	0.245	0.244	Pass



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3.1.2 Test Graph

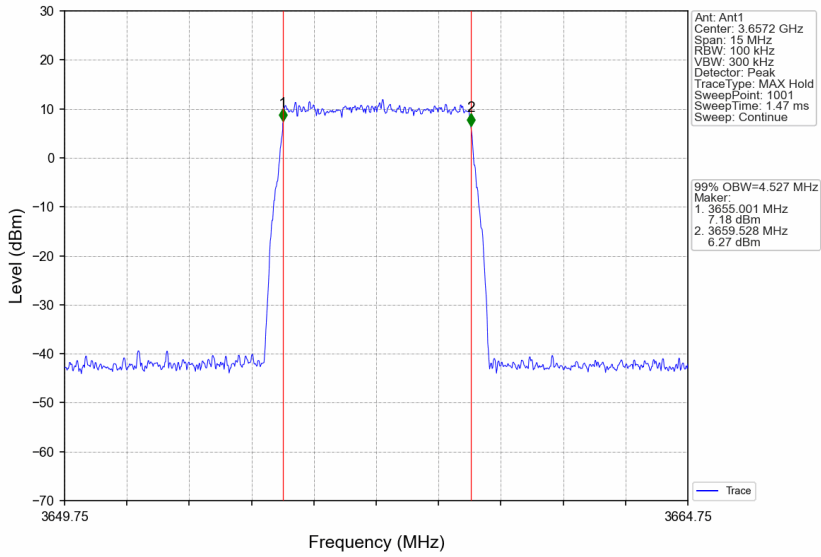


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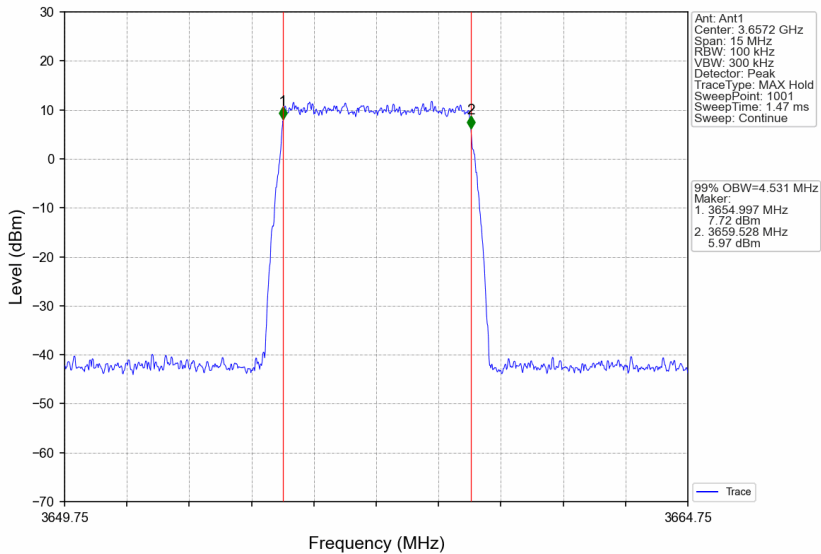
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3550MHz-3700MHz_3657.25MHz_AWGN_SISO_Ant1_NTNV_AGC+3



3550MHz-3700MHz_3657.25MHz_AWGN_SISO_Ant1_NTNV_AGC

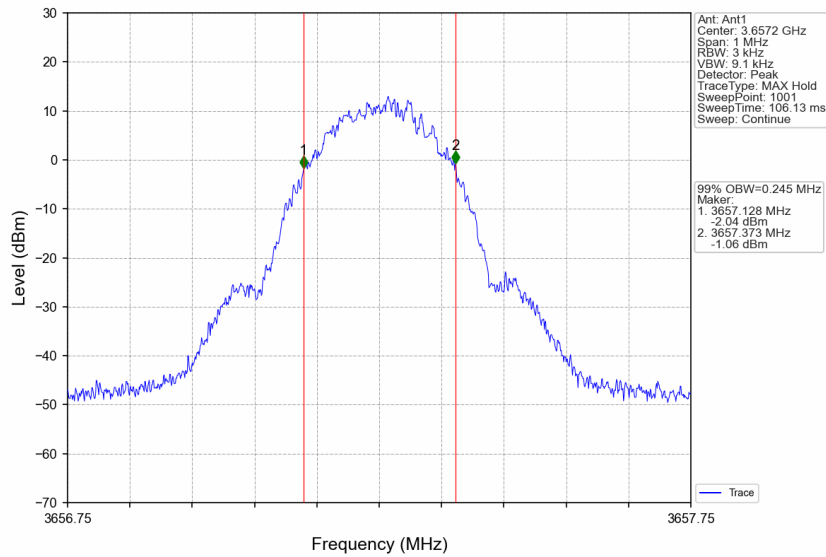


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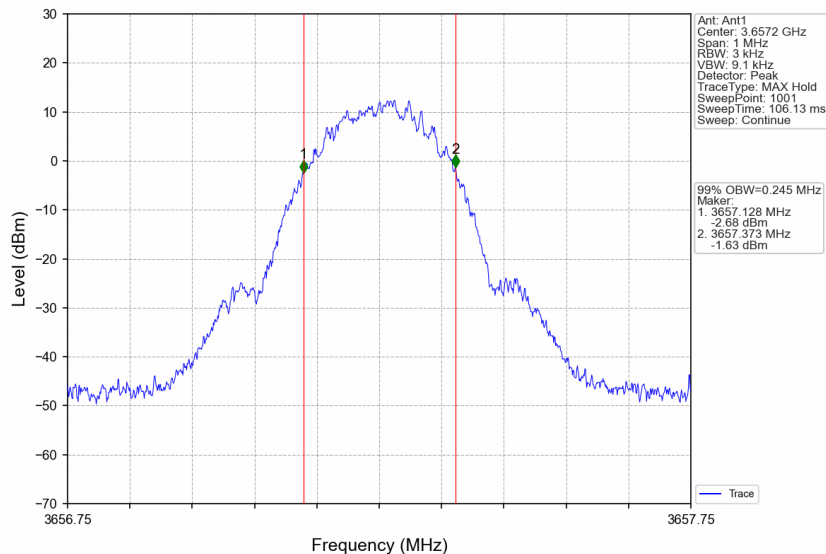
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3550MHz-3700MHz_3657.25MHz_GMSK_SISO_Ant1_NTNV_AGC+3

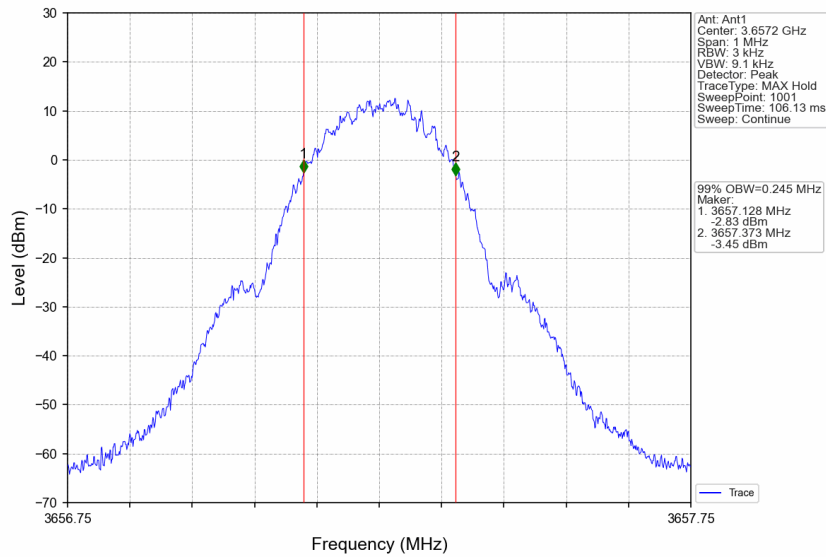


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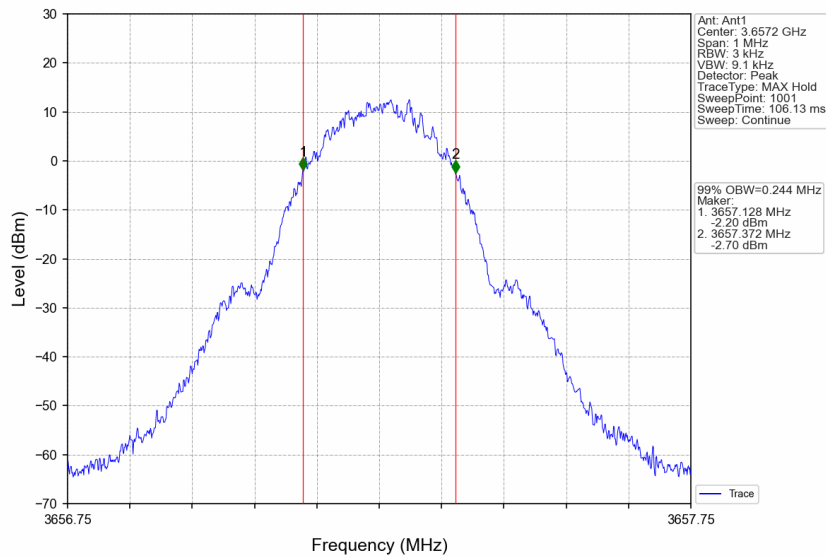
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3550MHz-3700MHz_3657.25MHz_GMSK_SISO_Ant1_NTNV_AGC



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3.2 3550MHz-3700MHz_EBW

3.2.1 Test Result

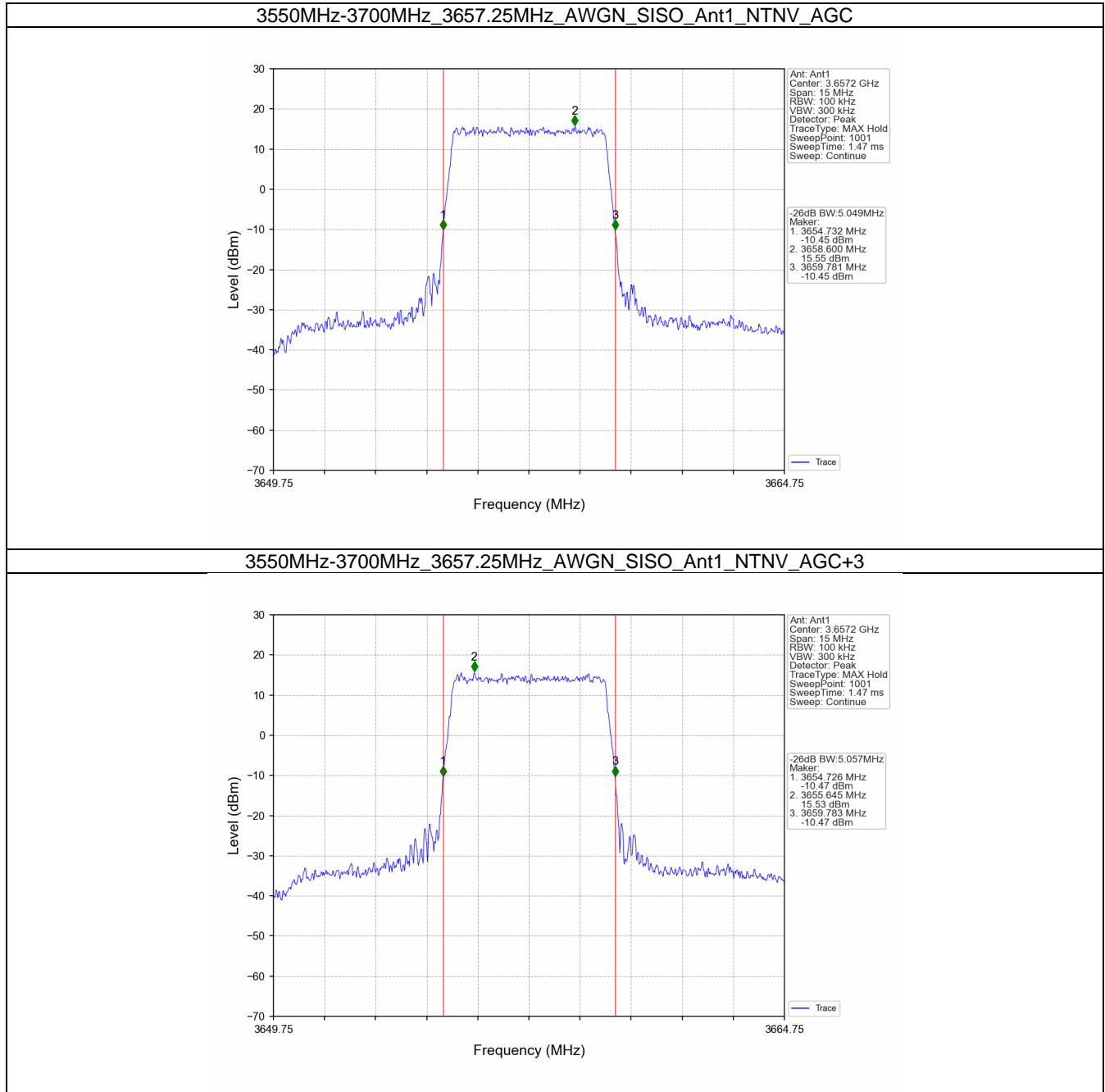
3550MHz-3700MHz / NTN							
Type	Signal		TX Type	ANT	26dB EBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	-0.7	3657.25	SISO	1	5.049	5.043	Pass
	-3.7	3657.25	SISO	1	5.057	5.034	Pass
GMSK	0.3	3657.25	SISO	1	0.315	0.314	Pass
	-2.7	3657.25	SISO	1	0.315	0.316	Pass



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3.2.2 Test Graph



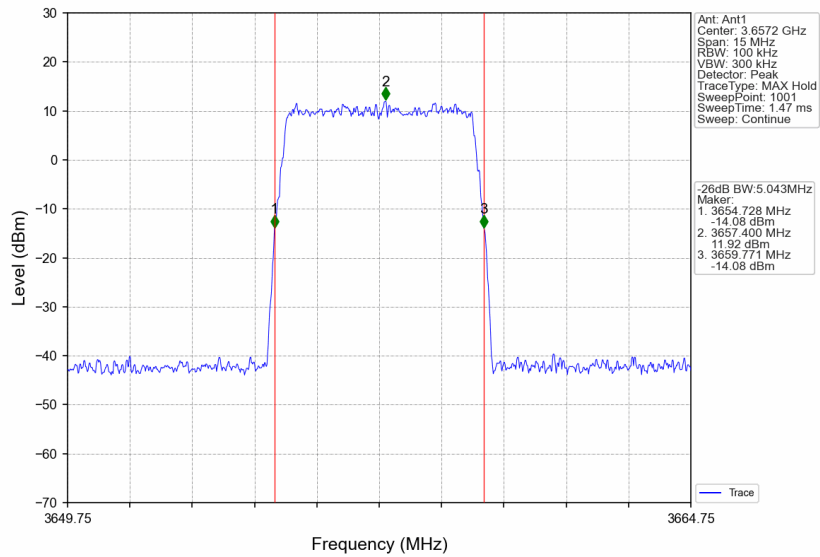
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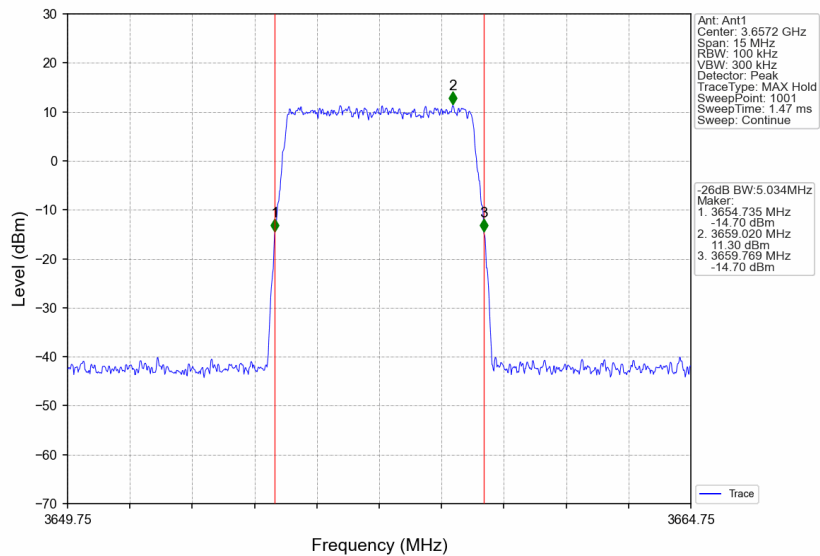
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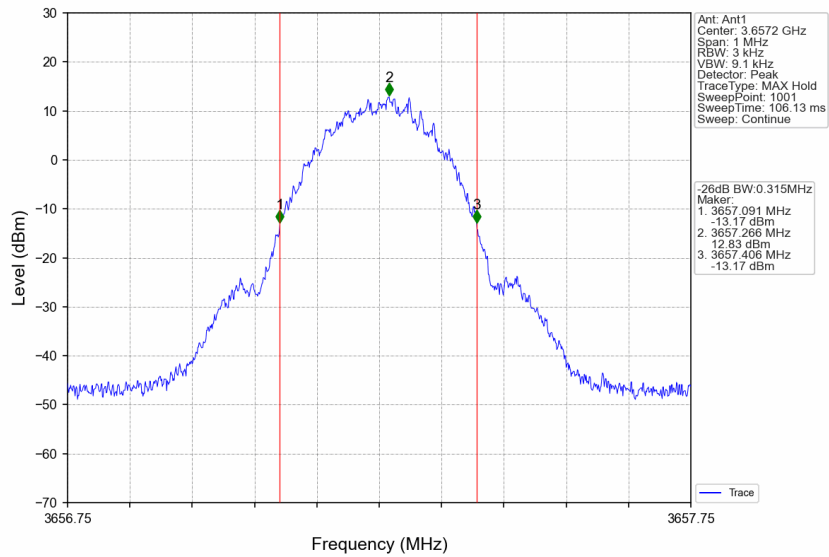
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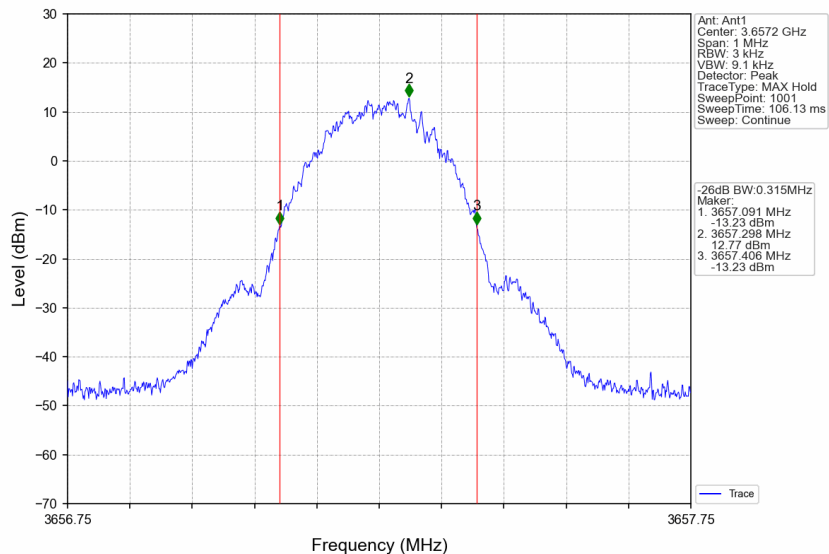
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3550MHz-3700MHz_3657.25MHz_GMSK_SISO_Ant1_NTNV_AGC+3

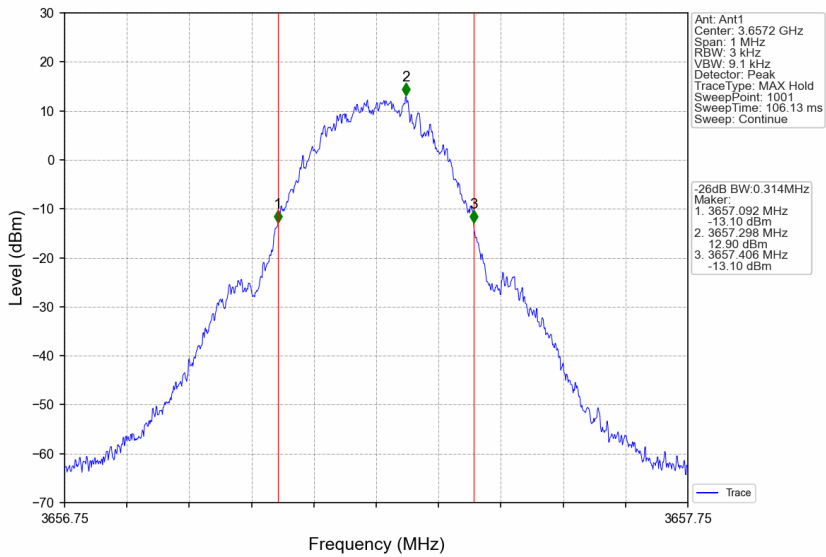


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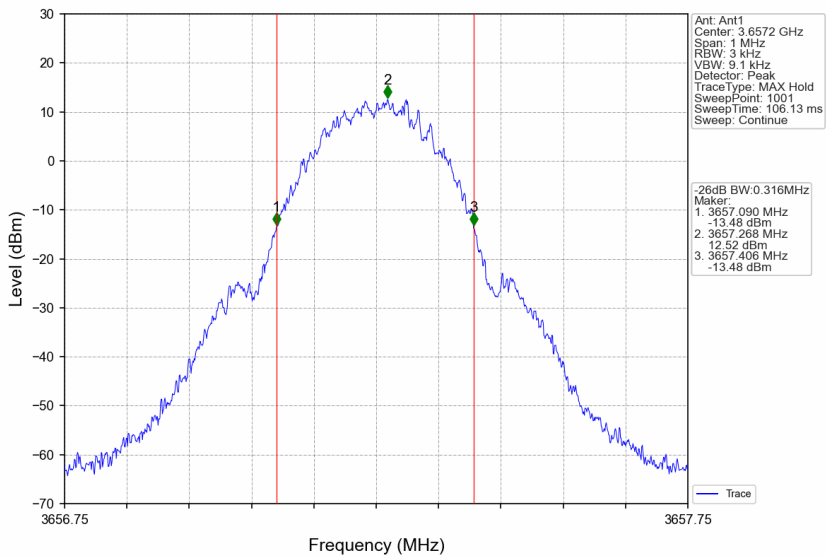
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4. Input/output power and amplifier/booster gain

4.1 3550MHz-3700MHz_EIRP

4.1.1 Test Result

3550MHz-3700MHz / NTNV											
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Conducted Power (dBm/10MHz)				Total Output Power (dBm/10MHz)	EIRP (dBm/10MHz)	Gain (dB)
					Ant 1	Ant 2	Ant 3	Ant 4			
SISO mode											
3550MHz-3700MHz	3657.25	AWGN	Pre-AGC	-3.7	11.86	--	--	--	11.86	14.86	13.38
			3dB Above AGC	-0.7	11.43	--	--	--	11.43	14.43	/
	3657.25	GMSK	Pre-AGC	-2.7	13.58	--	--	--	13.58	16.58	13.96
			3dB Above AGC	0.3	13.67	--	--	--	13.67	16.67	/

3550MHz-3700MHz / NTNV											
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Total Output Power (dBm/10MHz)			EIRP(dBm/10MHz)			Gain (dB)
					SISO	2X2 MIMO	4X4 MIMO	SISO	2X2 MIMO	4X4 MIMO	
MIMO mode											
3550MHz-3700MHz	3657.25	AWGN	Pre-AGC	-3.7	11.86	14.87	17.88	14.86	17.87	20.88	/
			3dB Above AGC	-0.7	11.43	14.44	17.45	14.43	17.44	20.45	/
	3657.25	GMSK	Pre-AGC	-2.7	13.58	16.59	19.6	16.58	19.59	22.6	/
			3dB Above AGC	0.3	13.67	16.68	19.69	16.67	19.68	22.69	/



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3550MHz-3700MHz / NTNV											
Operation Band	Frequency (MHz)	Signal Type	Signal Level (dBm)	Input Power (dBm)	Total Output Power (dBm)			EIRP(dBm)			Gain (dB)
					SISO	2X2 MIMO	4X4 MIMO	SISO	2X2 MIMO	4X4 MIMO	
MIMO mode											
3550MHz-3700MHz	3657.25	AWGN	Pre-AGC	-3.7	11.86	14.87	17.88	14.86	17.87	20.88	/
			3dB Above AGC	-0.7	11.43	14.44	17.45	14.43	17.44	20.45	/
	3657.25	GMSK	Pre-AGC	-2.7	13.58	16.59	19.6	16.58	19.59	22.6	/
			3dB Above AGC	0.3	13.67	16.68	19.69	16.67	19.68	22.69	/

Remark:

- 1.The EUT supports SISO working mode. Each antenna can be used as SISO working port. We only present the worst result, the test data of ant 1 port.
- 2.This EUT supports 2*2 and 4*4MIMO, For MIMO mode the output signals are considered completely uncorrelated, so the antenna gain is 3dBi.



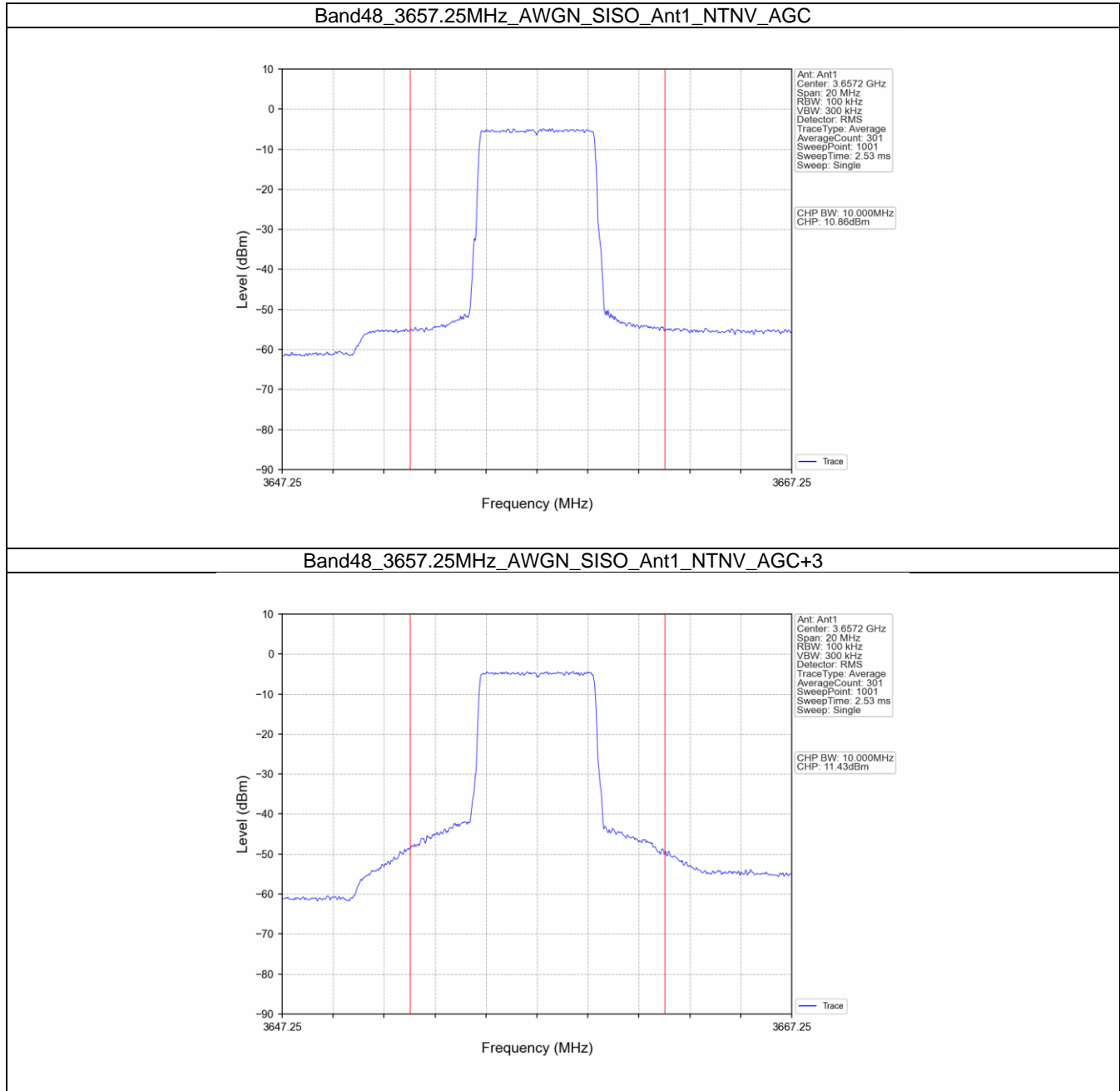
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4.1.2 Test Graph

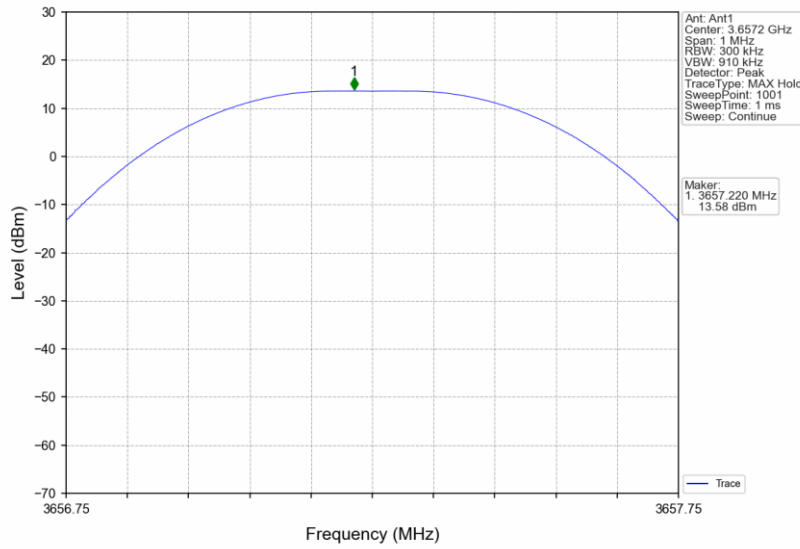


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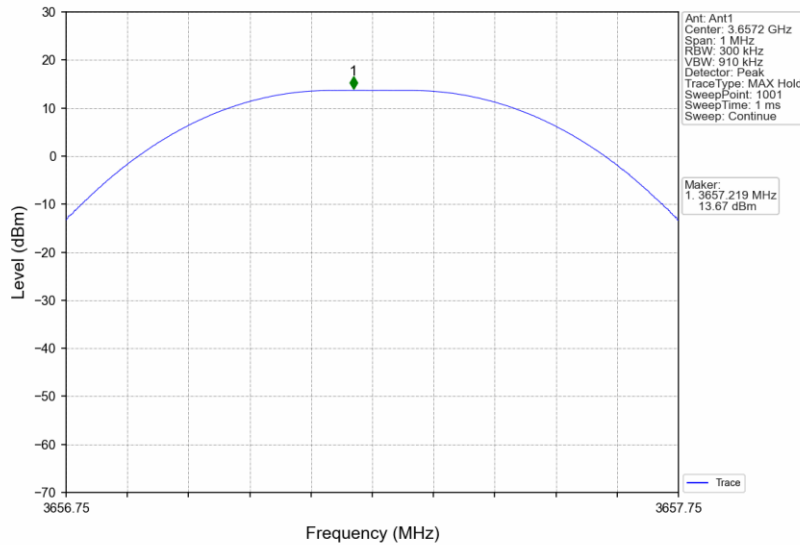
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Band48_3657.25MHz_GMSK_SISO_Ant1_NTNV_AGC



Band48_3657.25MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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

5.1 3550MHz-3700MHz

5.1.1 Test Result

3550MHz-3700MHz / NTN									
Input	Type	Signal		Channel	TX Type	ANT	OOB (dBm)		Verdict
		Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	-3.7	3552.5	LCH	SISO	1	-65.10	Refer To Test Graph	Pass
		-0.7	3552.5	LCH	SISO	1	-51.15	Refer To Test Graph	Pass
One	AWGN	-3.7	3552.5	LCH	SISO	1	-65.49	Refer To Test Graph	Pass
		-0.7	3552.5	LCH	SISO	1	-49.37	Refer To Test Graph	Pass
Two	AWGN	-3.7	3697.5	HCH	SISO	1	-64.90	Refer To Test Graph	Pass
		-0.7	3697.5	HCH	SISO	1	-63.97	Refer To Test Graph	Pass
One	AWGN	-3.7	3697.5	HCH	SISO	1	-64.75	Refer To Test Graph	Pass
		-0.7	3697.5	HCH	SISO	1	-64.04	Refer To Test Graph	Pass
Two	GMSK	-2.7	3550.1	LCH	SISO	1	-61.40	Refer To Test Graph	Pass
		0.3	3550.1	LCH	SISO	1	-60.95	Refer To Test Graph	Pass
One	GMSK	-2.7	3550.1	LCH	SISO	1	-61.04	Refer To Test Graph	Pass
		0.3	3550.1	LCH	SISO	1	-61.47	Refer To Test Graph	Pass
Two	GMSK	-2.7	3699.9	HCH	SISO	1	-66.02	Refer To Test Graph	Pass
		0.3	3699.9	HCH	SISO	1	-65.80	Refer To Test Graph	Pass
One	GMSK	-2.7	3699.9	HCH	SISO	1	-66.05	Refer To Test Graph	Pass
		0.3	3699.9	HCH	SISO	1	-65.78	Refer To Test Graph	Pass

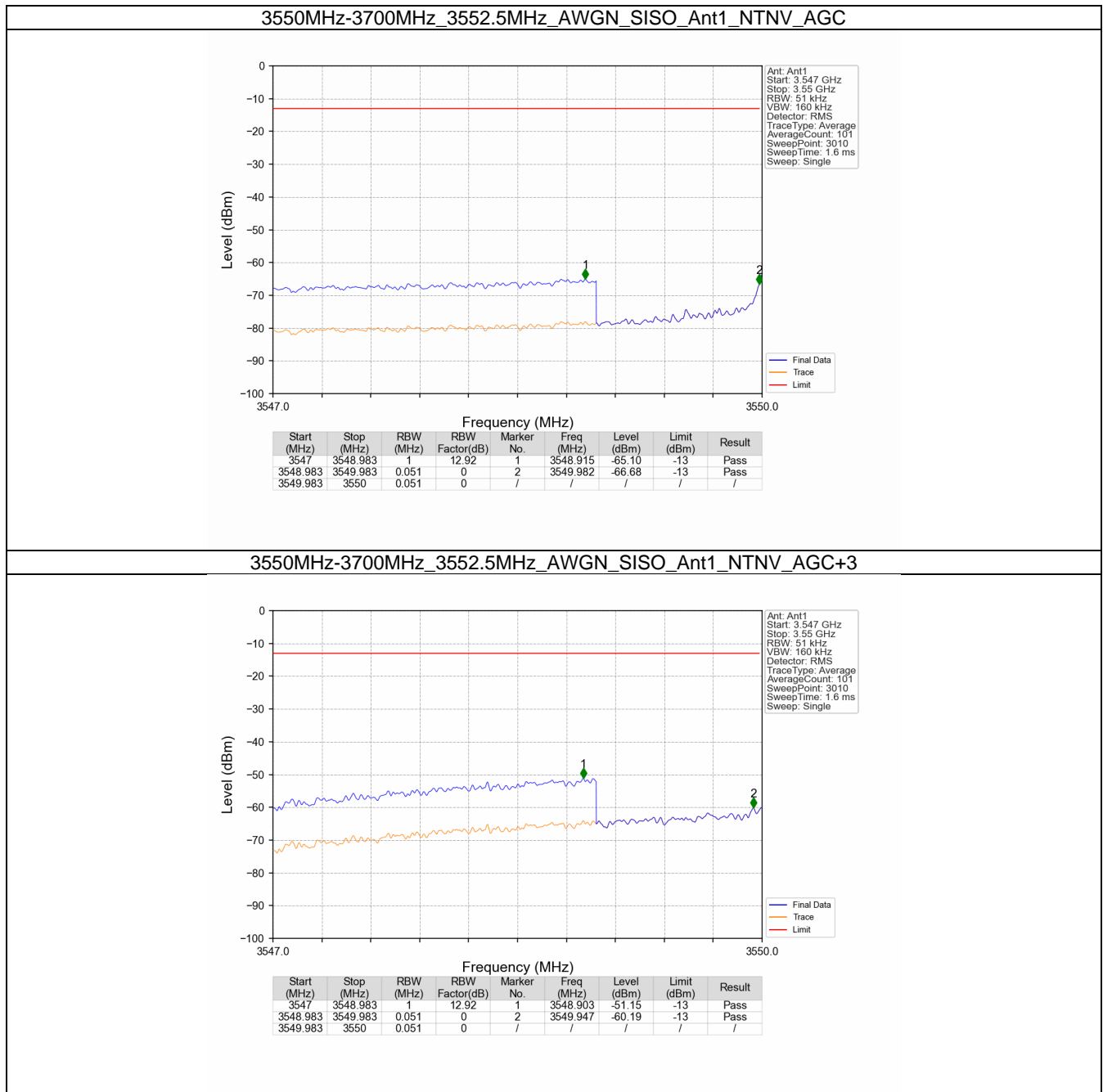


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5.1.2 Test Graph



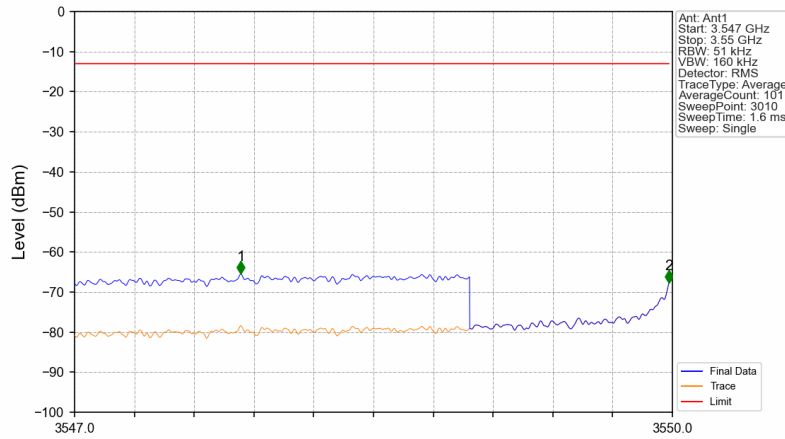
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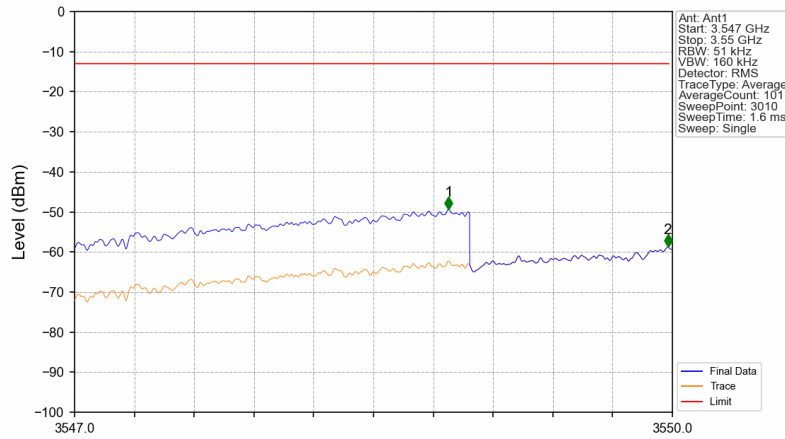
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3550MHz-3700MHz_3552.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3547	3548.983	1	12.92	1	3547.834	-65.49	-13	Pass
3548.983	3549.983	0.051	0	2	3549.982	-67.71	-13	Pass
3549.983	3550	0.051	0	/	/	/	/	/

3550MHz-3700MHz_3552.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3547	3548.983	1	12.92	1	3548.877	-49.37	-13	Pass
3548.983	3549.983	0.051	0	2	3549.977	-58.79	-13	Pass
3549.983	3550	0.051	0	/	/	/	/	/

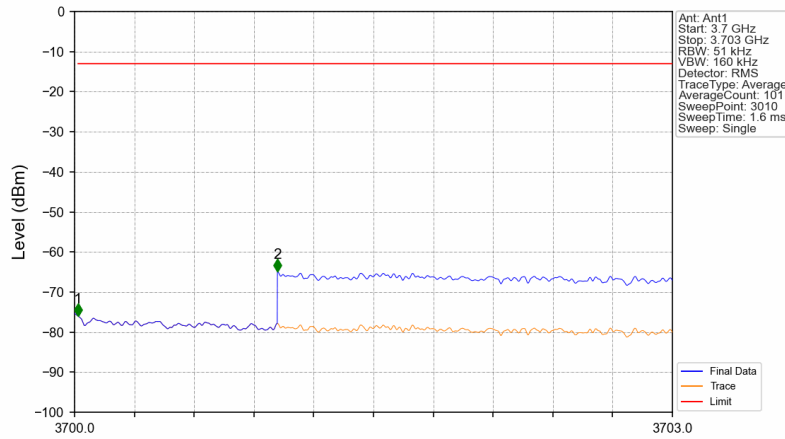


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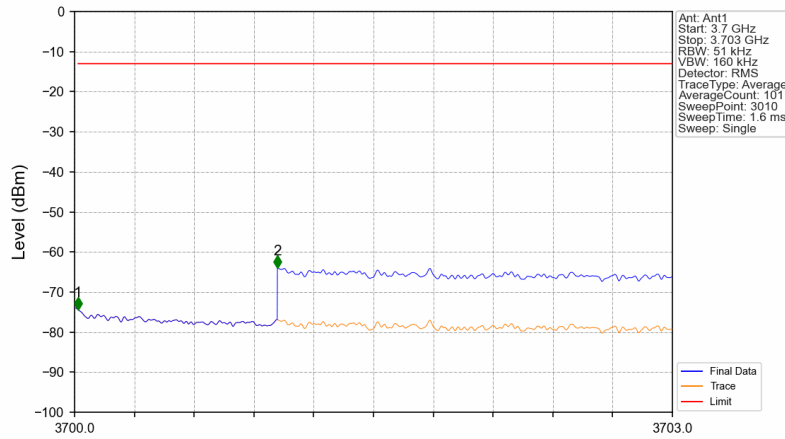
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3550MHz-3700MHz_3697.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3700	3700.017	0.051	0	/	/	/	/	/
3700.017	3701.017	0.051	0	1	3700.018	-75.98	-13	Pass
3701.017	3703	1	12.92	2	3701.018	-64.90	-13	Pass

3550MHz-3700MHz_3697.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3700	3700.017	0.051	0	/	/	/	/	/
3700.017	3701.017	0.051	0	1	3700.018	-74.45	-13	Pass
3701.017	3703	1	12.92	2	3701.018	-63.97	-13	Pass

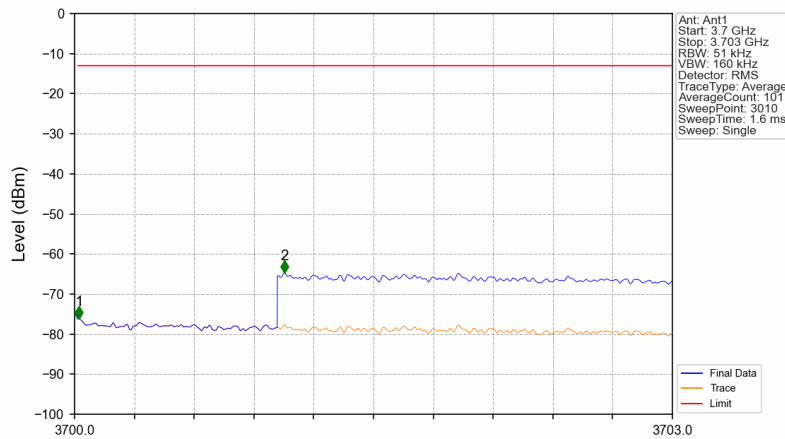


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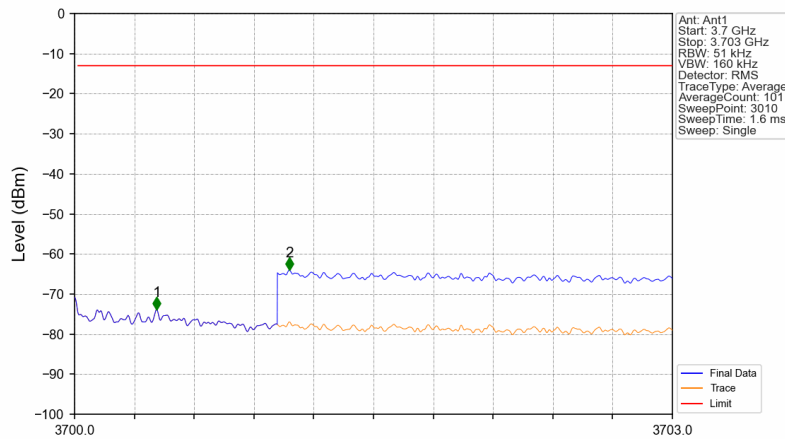
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3550MHz-3700MHz_3697.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3700	3700.017	0.051	0	/	/	/	/	/
3700.017	3701.017	0.051	0	1	3700.023	-76.26	-13	Pass
3701.017	3703	1	12.92	2	3701.053	-64.75	-13	Pass

3550MHz-3700MHz_3697.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3700	3700.017	0.051	0	/	/	/	/	/
3700.017	3701.017	0.051	0	1	3700.412	-73.86	-13	Pass
3701.017	3703	1	12.92	2	3701.078	-64.04	-13	Pass

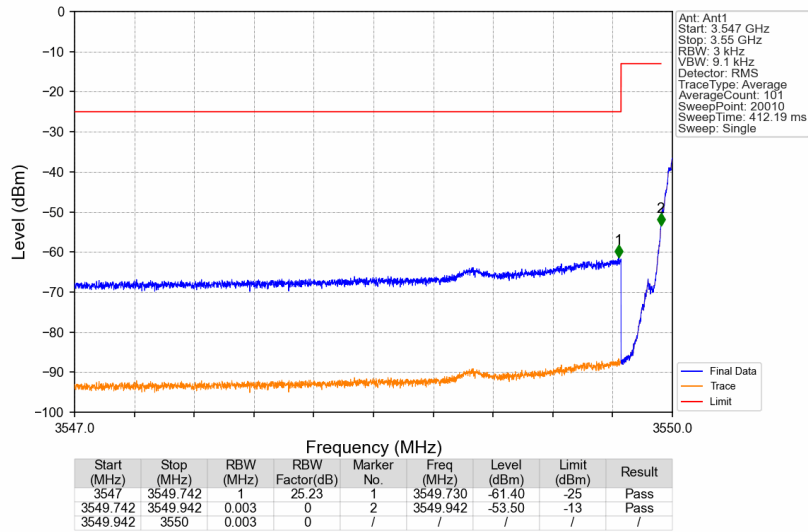


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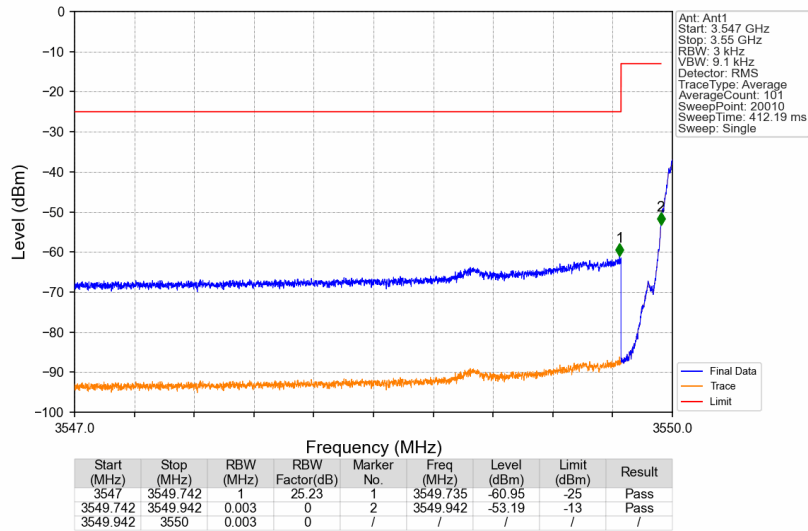
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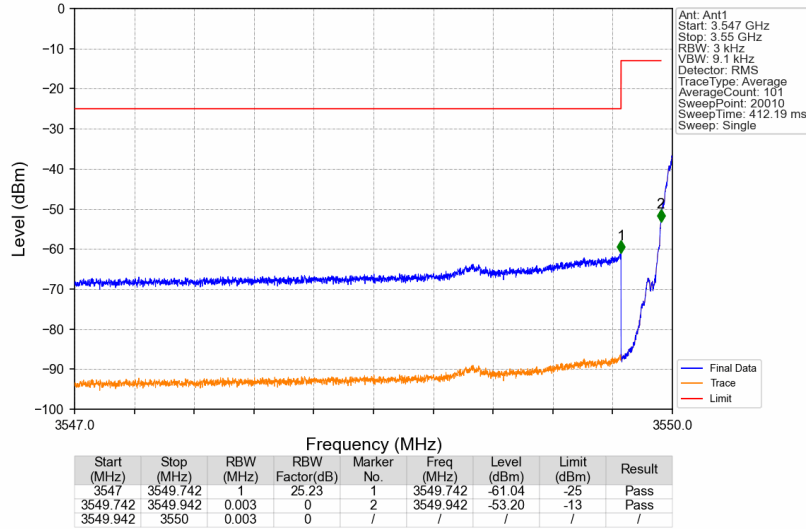


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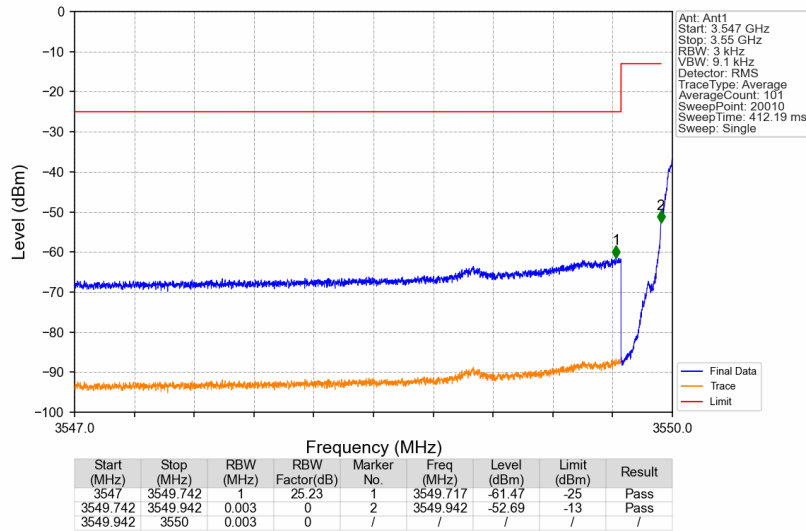
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3550MHz-3700MHz_3550.1MHz_GMSK_SISO_Ant1_NTNV_AGC



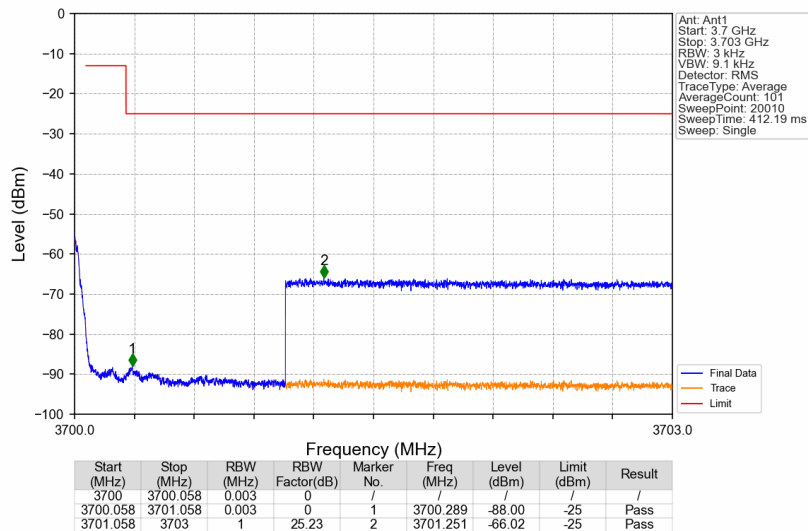
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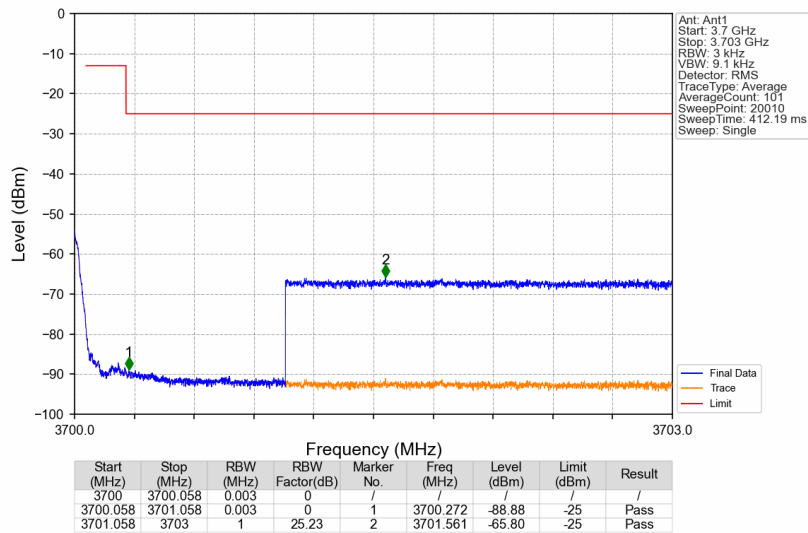
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3550MHz-3700MHz_3699.9MHz_GMSK_SISO_Ant1_NTNV_AGC



3550MHz-3700MHz_3699.9MHz_GMSK_SISO_Ant1_NTNV_AGC+3

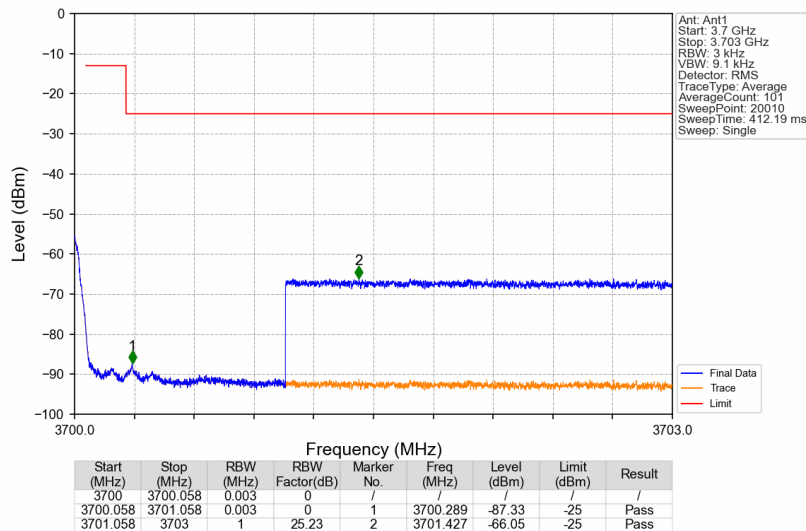


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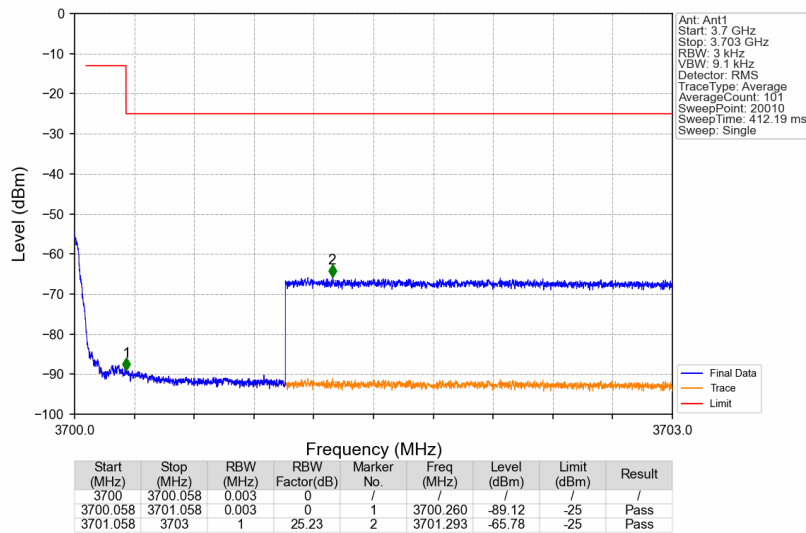
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6. Spurious emissions

6.1 3550MHz-3700MHz

6.1.1 Test Result

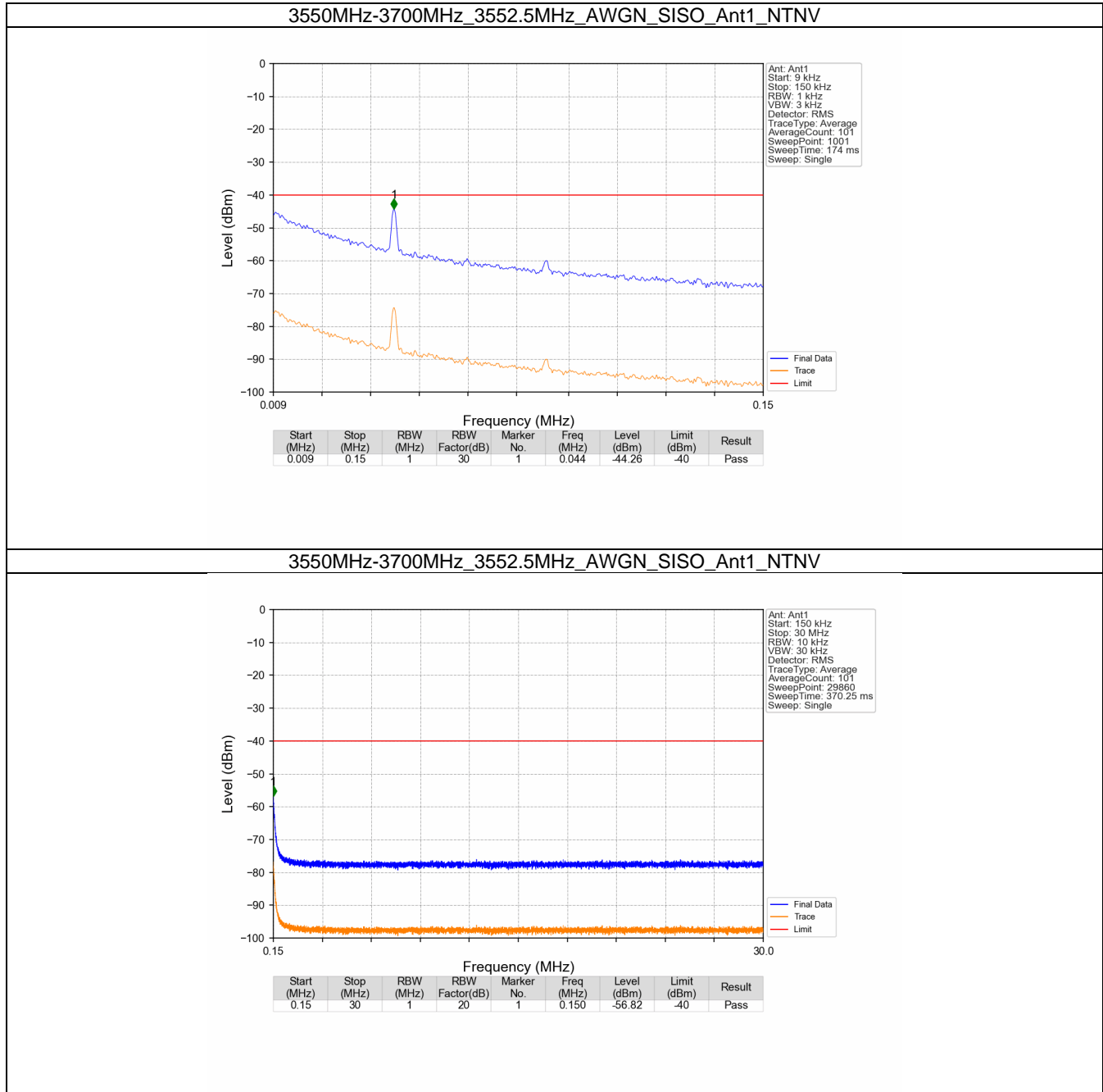
3550MHz-3700MHz / NTNV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	-3.7	3552.5	LCH	SISO	1	Refer To Test Graph		Pass
		3625	MCH	SISO	1	Refer To Test Graph		Pass
		3697.5	HCH	SISO	1	Refer To Test Graph		Pass
GMSK	-2.7	3550.1	LCH	SISO	1	Refer To Test Graph		Pass
		3625	MCH	SISO	1	Refer To Test Graph		Pass
		3699.9	HCH	SISO	1	Refer To Test Graph		Pass



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6.1.2 Test Graph

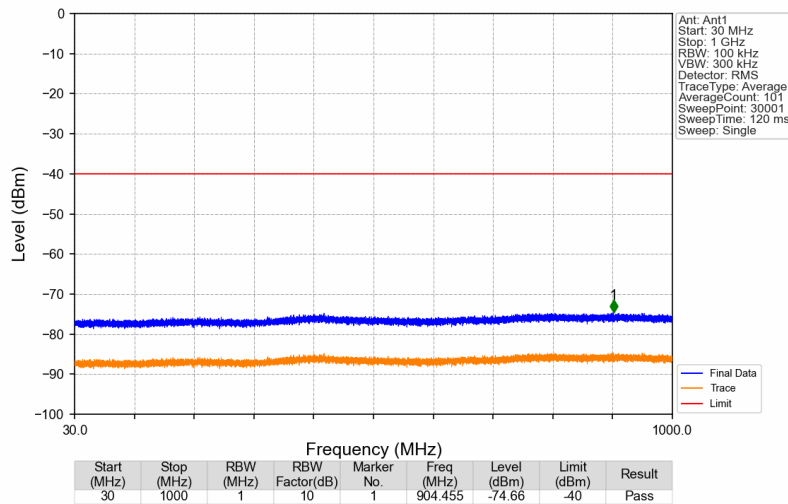


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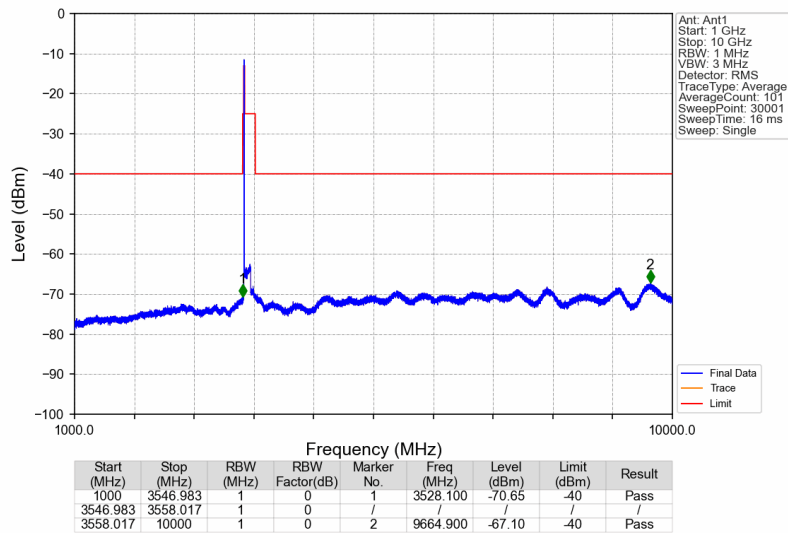
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3550MHz-3700MHz_3552.5MHz_AWGN_SISO_Ant1_NTNV



3550MHz-3700MHz_3552.5MHz_AWGN_SISO_Ant1_NTNV

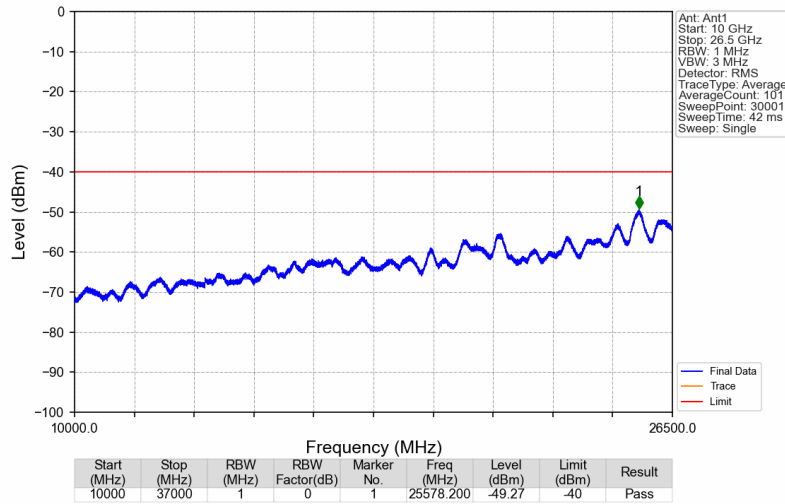


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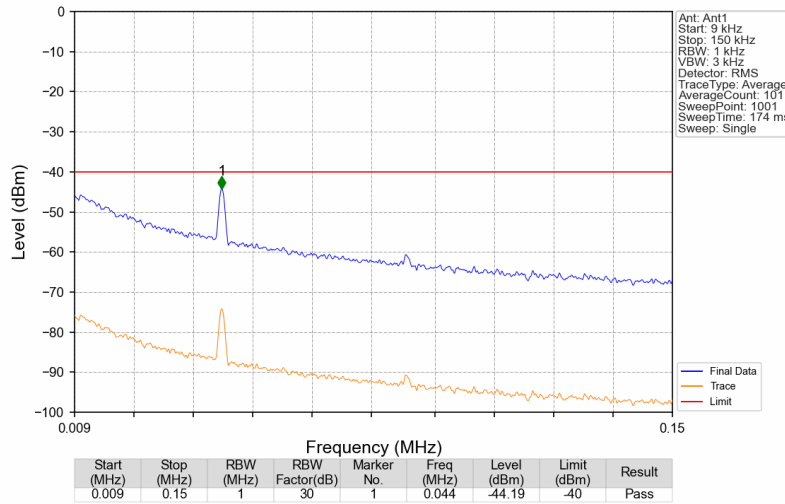
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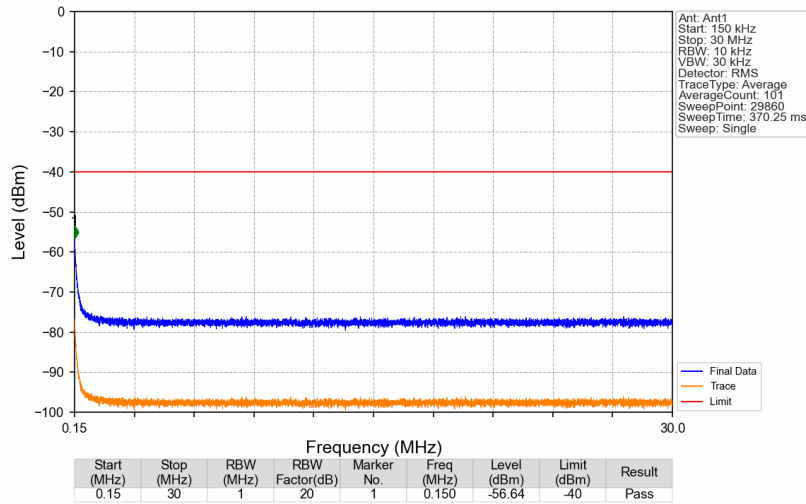


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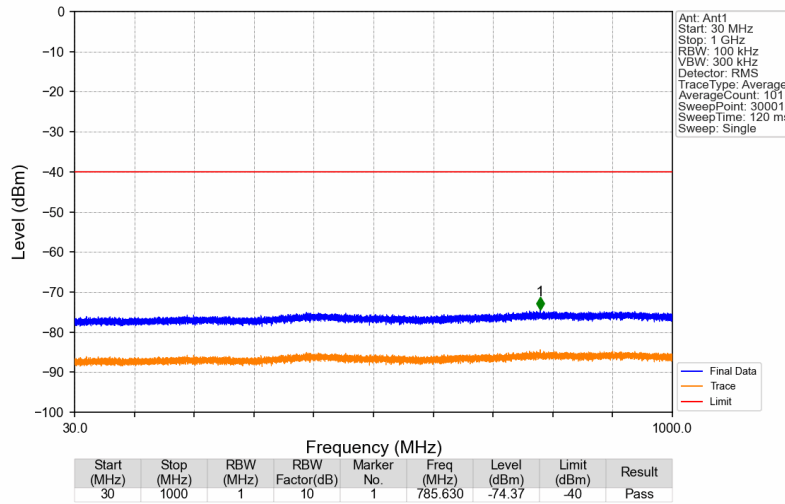
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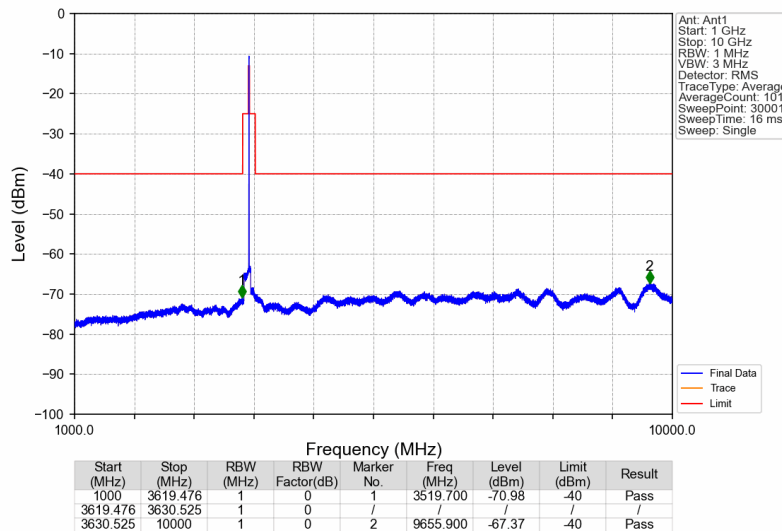
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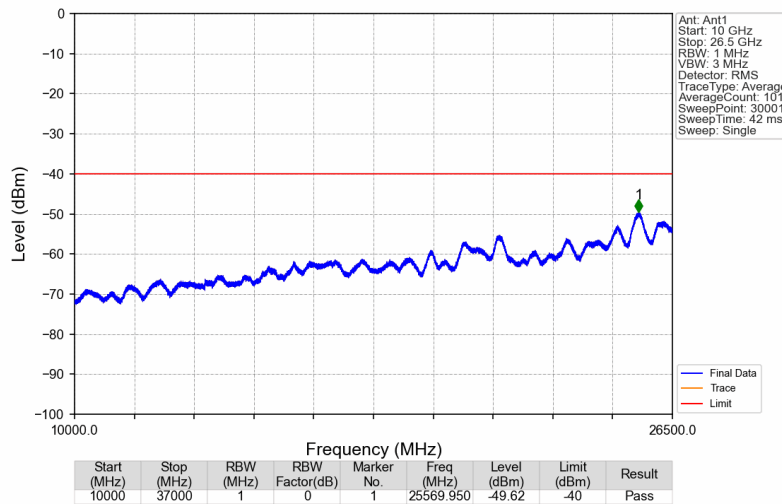
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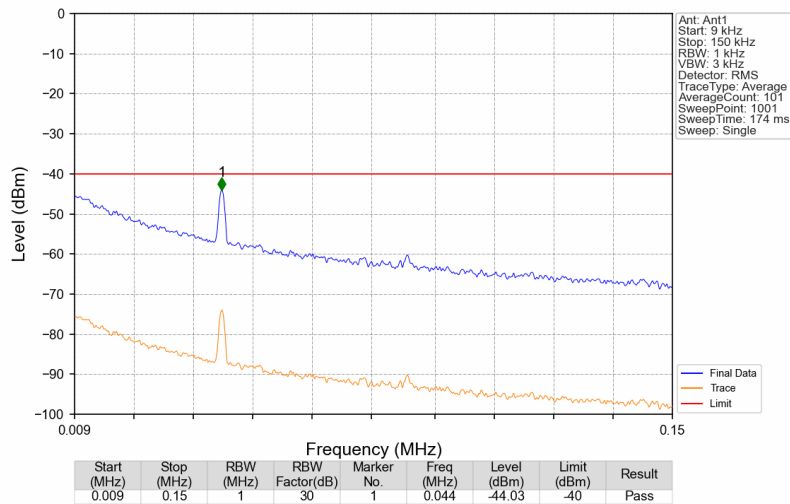


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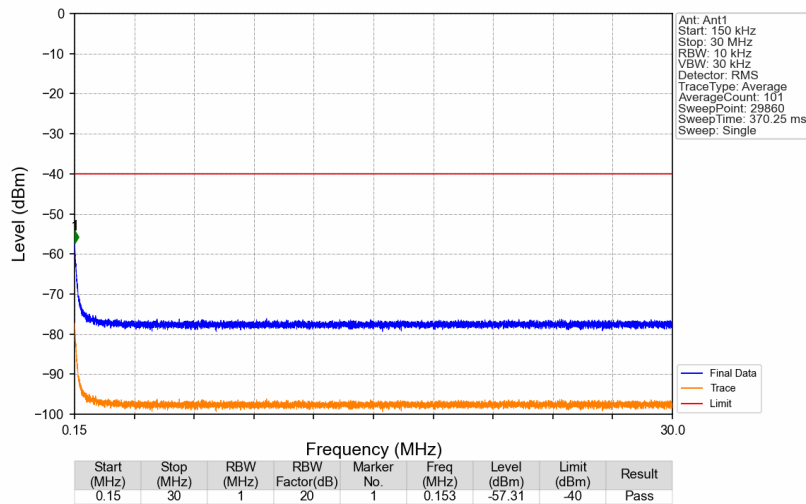
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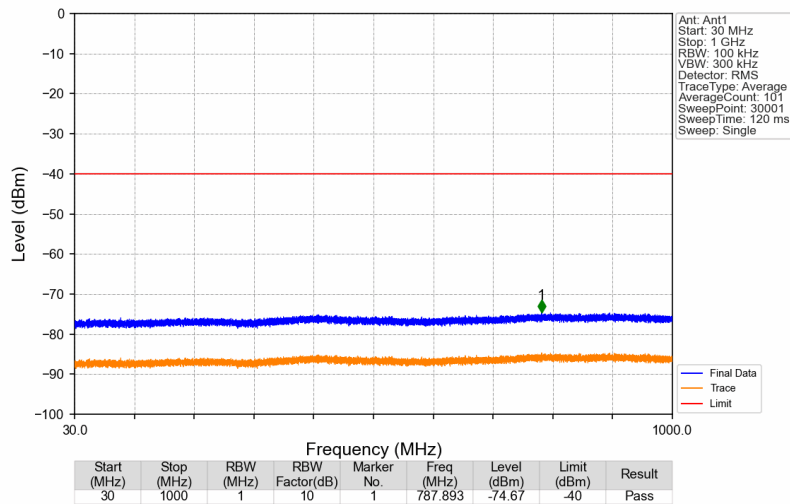
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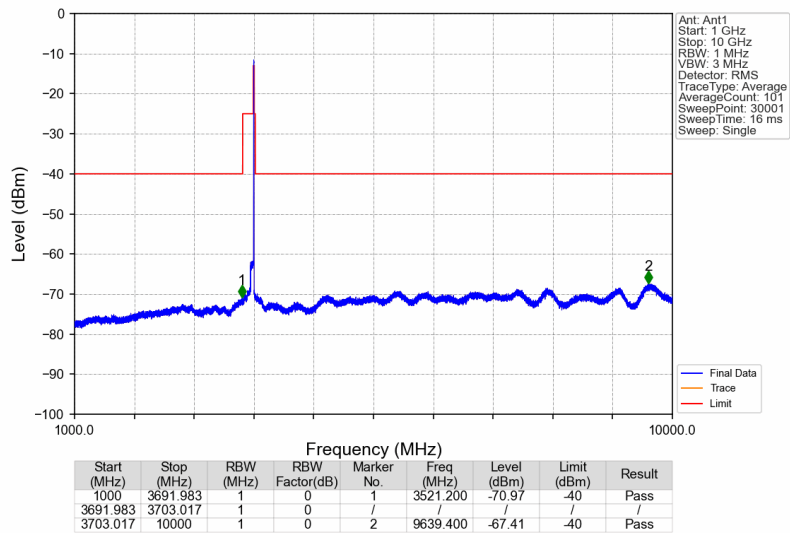
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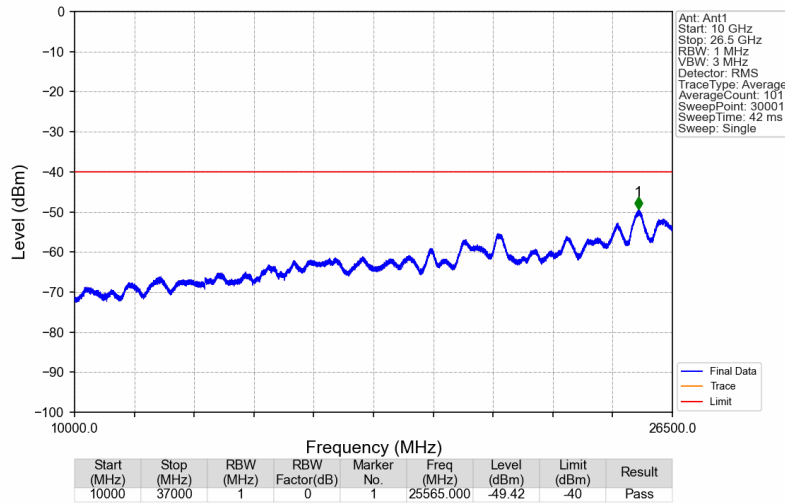


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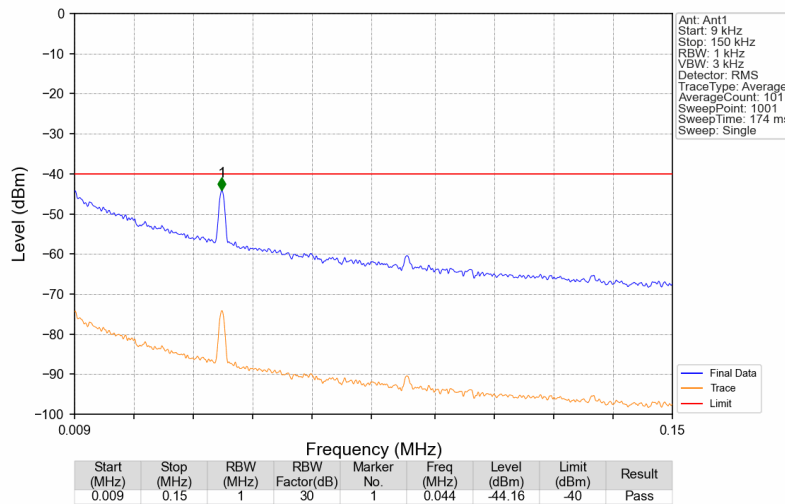
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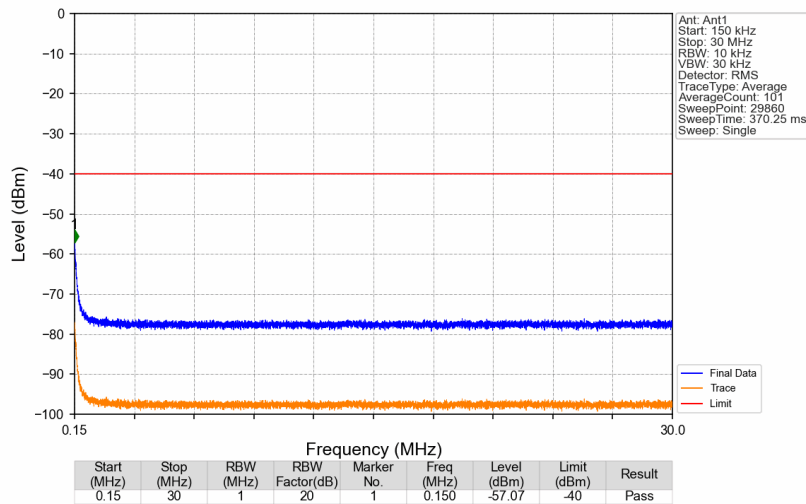


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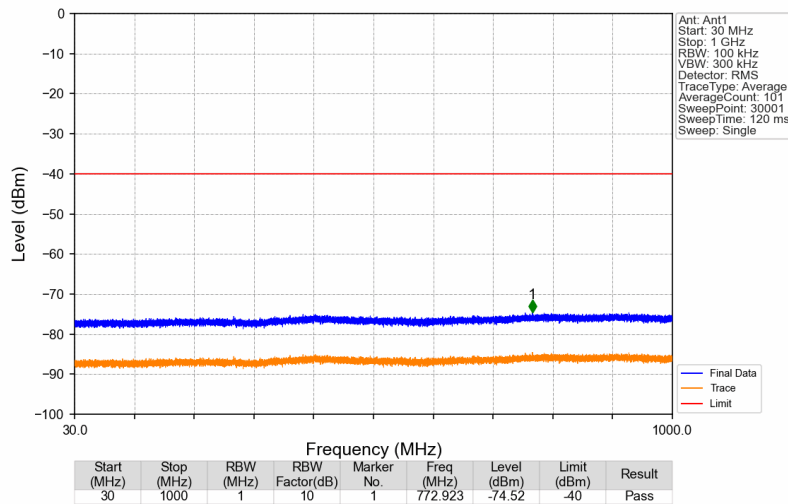
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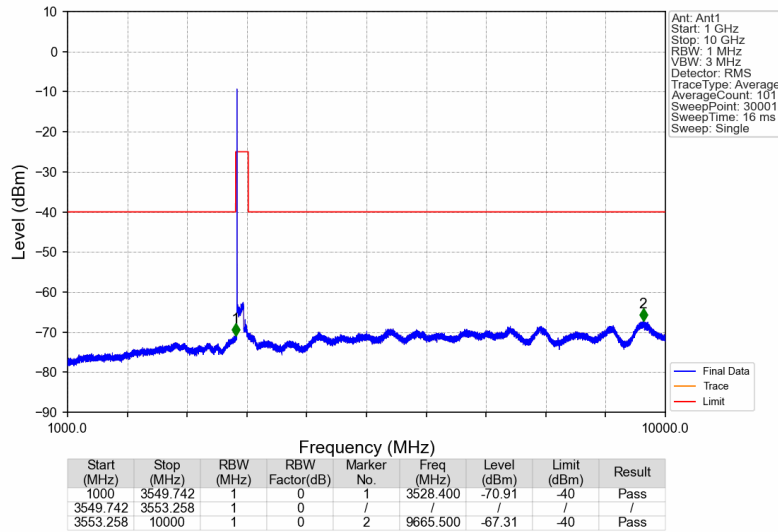
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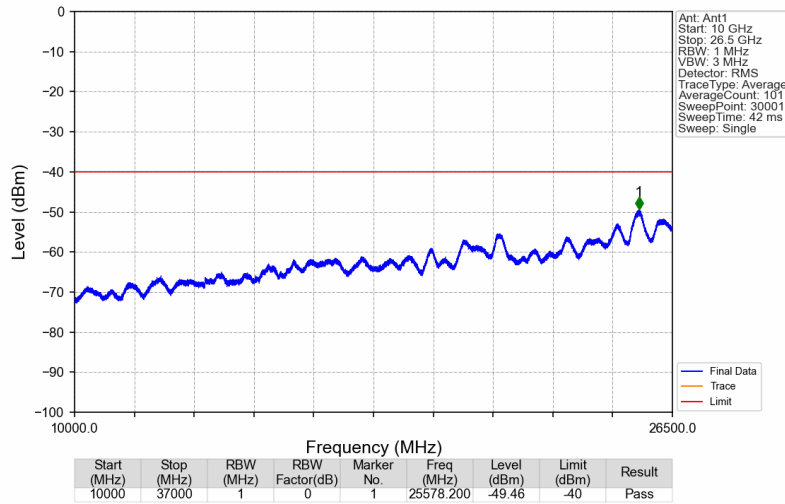
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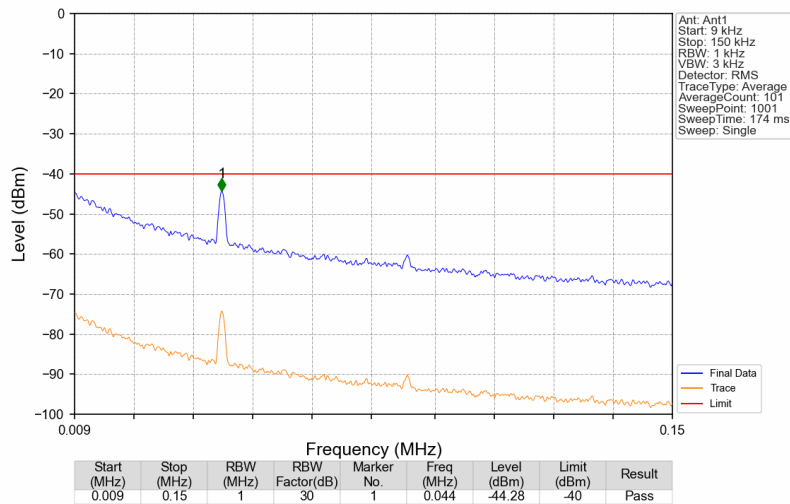
3550MHz-3700MHz_3550.1MHz_GMSK_SISO_Ant1_NTNV



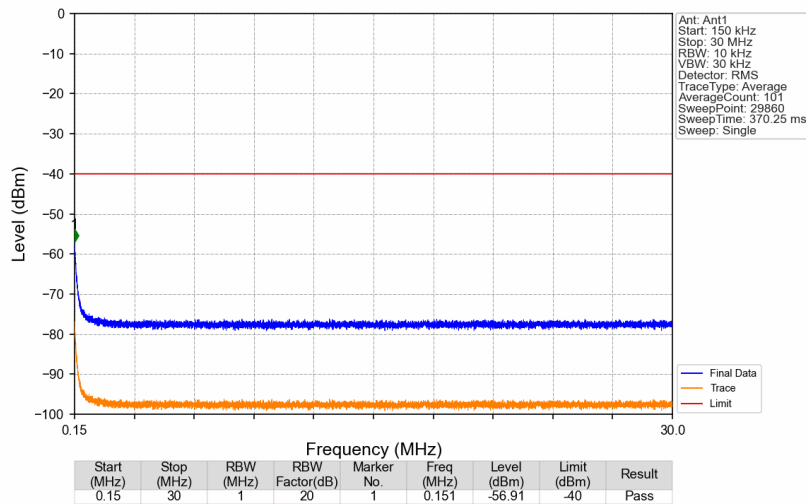
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3550MHz-3700MHz_3625MHz_GMSK_SISO_Ant1_NTNV



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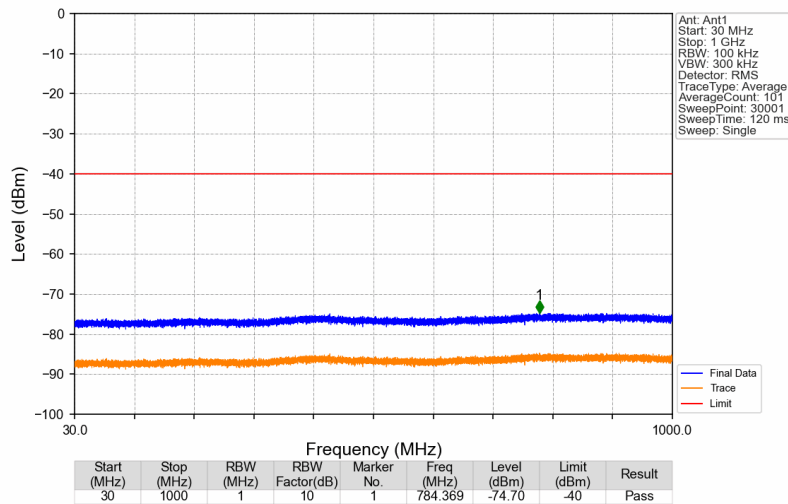
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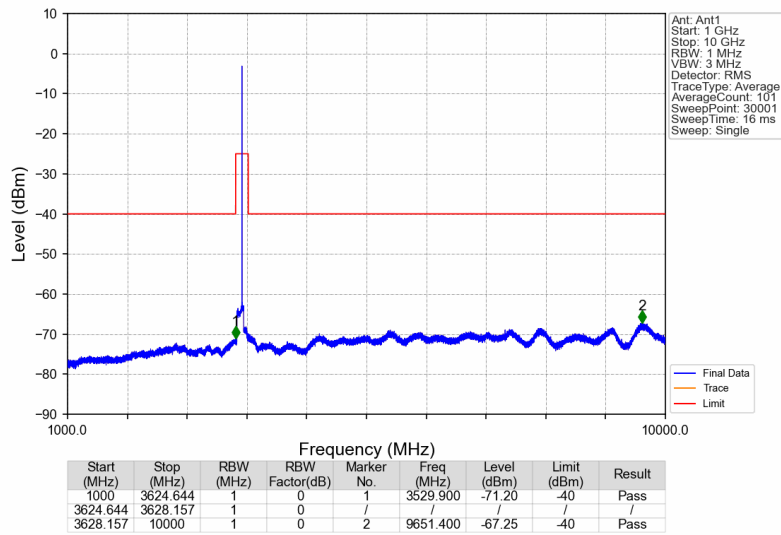
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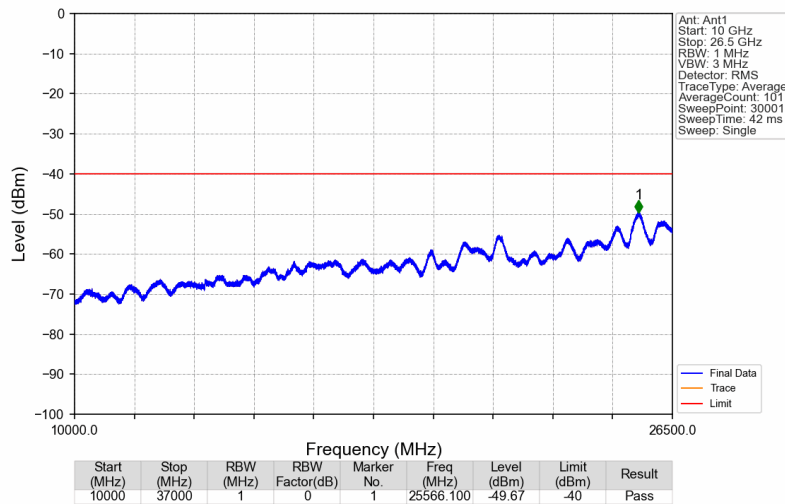


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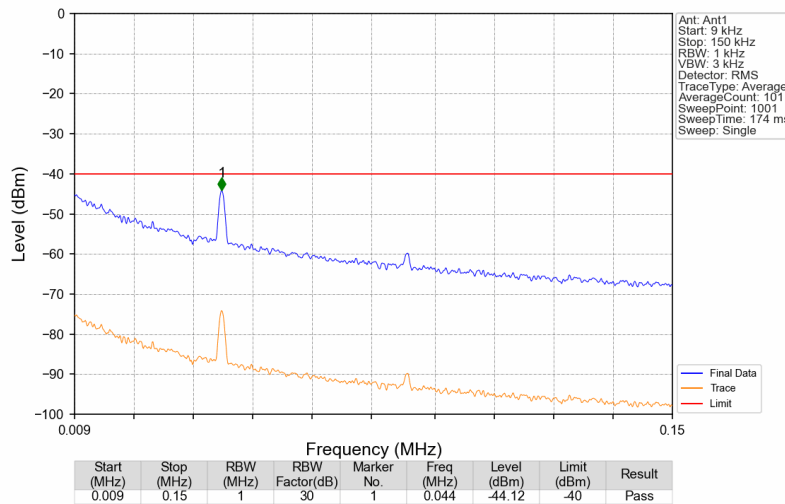
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3550MHz-3700MHz_3699.9MHz_GMSK_SISO_Ant1_NTNV

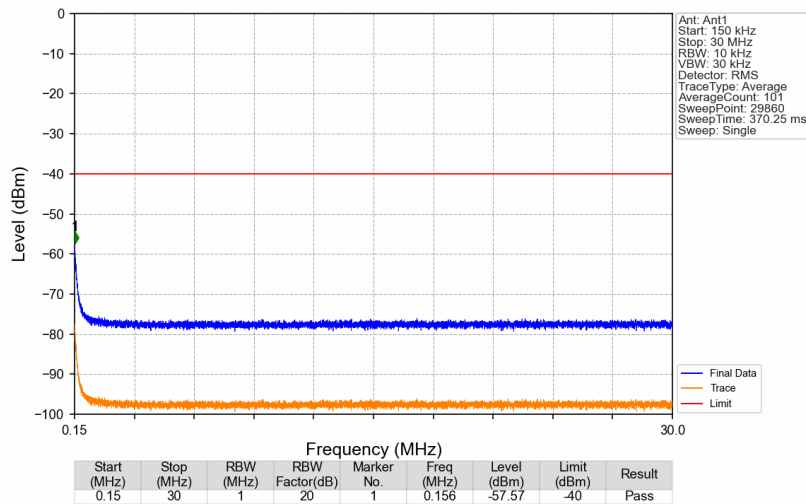


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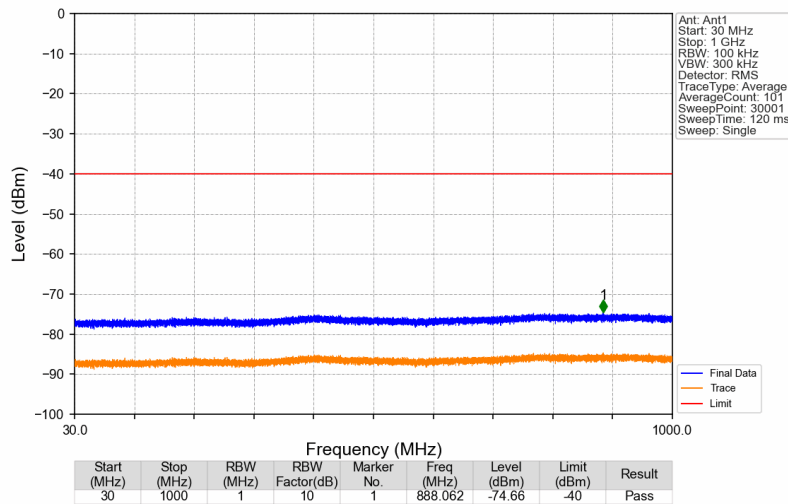
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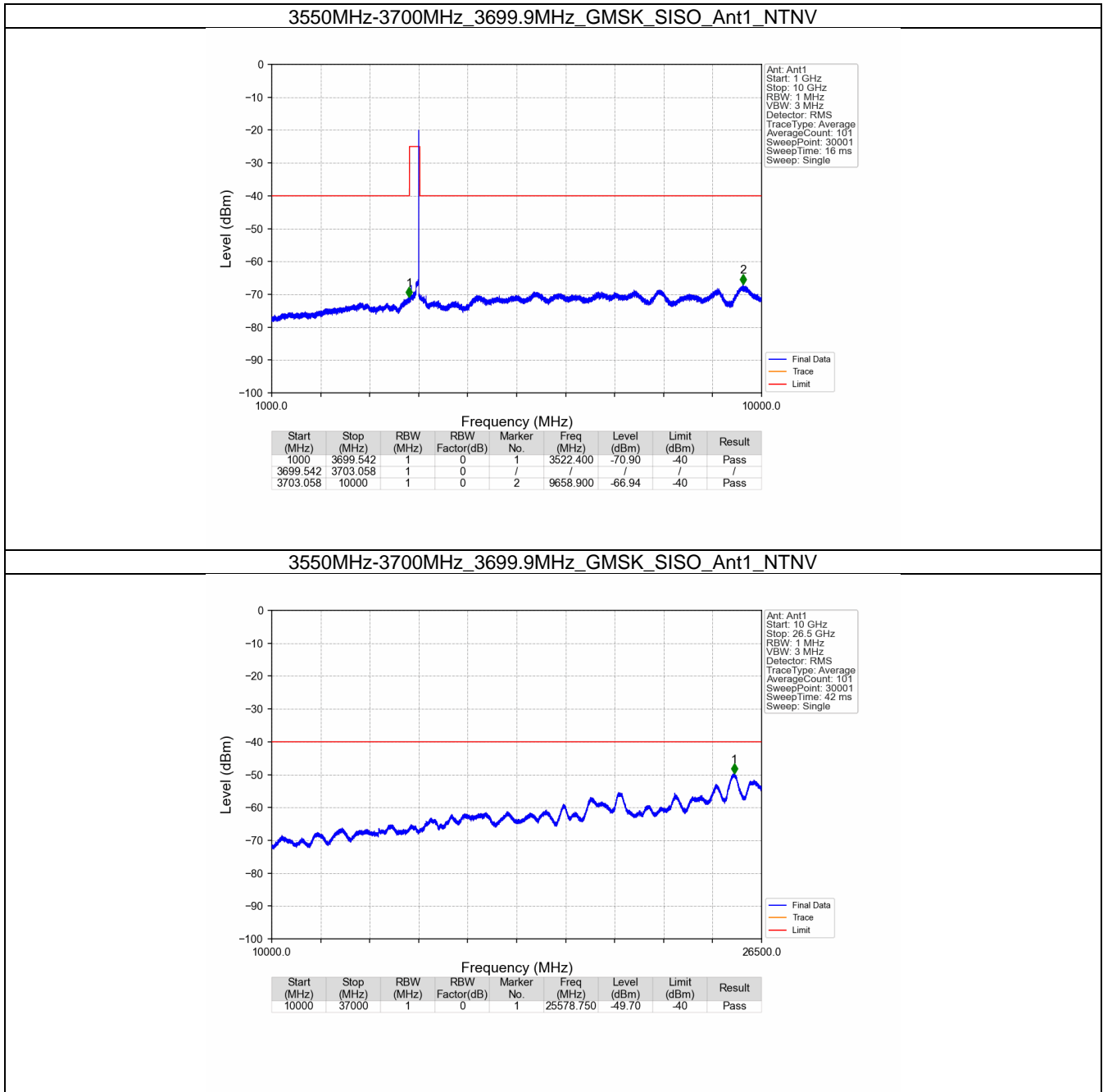
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7. Frequency stability measurements

7.1 3550MHz-3700MHz_Ant1

7.1.1 Test Result

3550MHz-3700MHz / NTNV								
Signal			Temp (°C)	Voltage (VDC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict	
Type	Level (dBm)	Frequency (MHz)						
CW	-3.7	3550.1	20	40.2	0.00	0.00	Pass	
				48	0.00	0.00	Pass	
				55.8	0.00	0.00	Pass	
			-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
				45	48	0.00	0.00	Pass
		3625	20	40.2	0.00	0.00	Pass	
				48	0.00	0.00	Pass	
				55.8	0.00	0.00	Pass	
			-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
				45	48	0.00	0.00	Pass
		3699.9	20	40.2	0.00	0.00	Pass	
				48	0.00	0.00	Pass	
				55.8	0.00	0.00	Pass	
			-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		
	45		48	0.00	0.00	Pass		



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8. ACLR

8.1 3550MHz-3700MHz_Ant1

8.1.1 Test Result

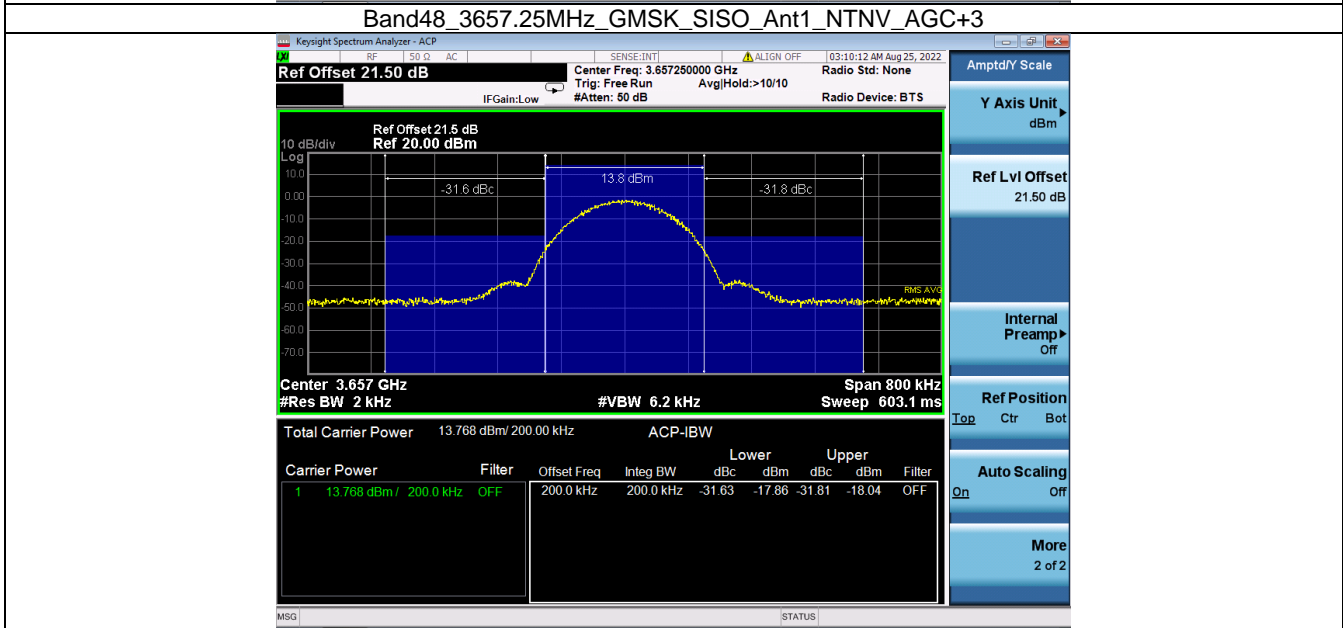
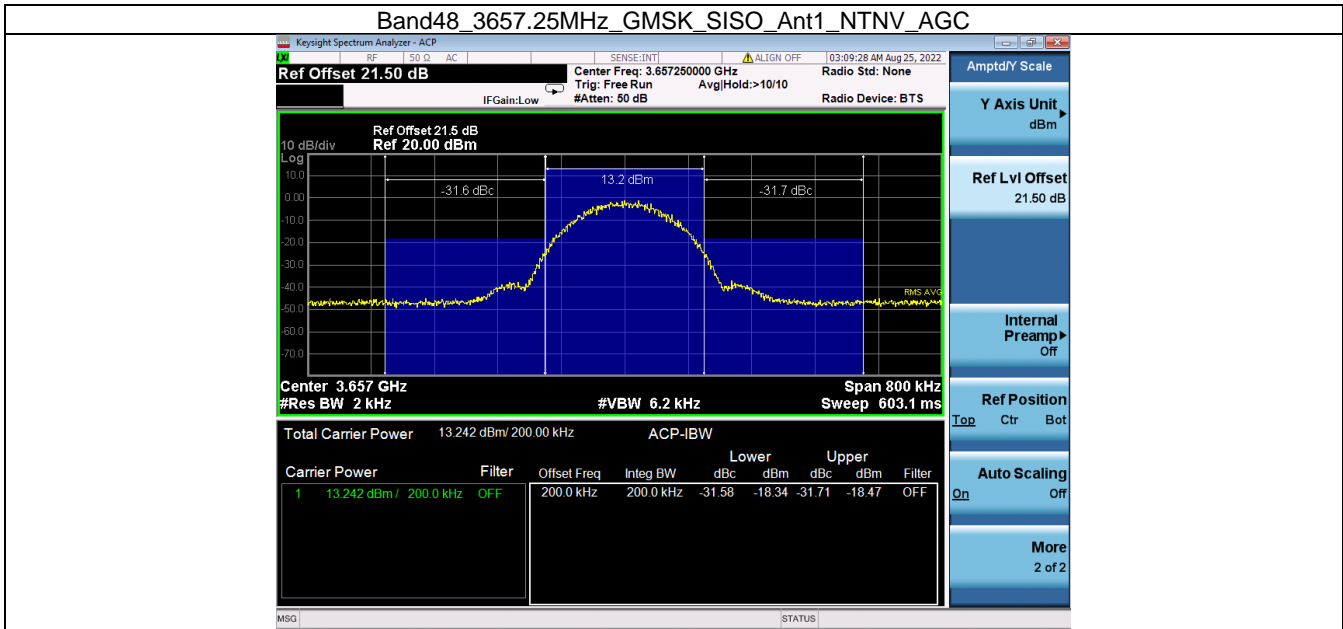


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