

Appendix for KSCR2211002212AT-LTE-Band71+5G NR-N71

1. Out of band rejection

1.1 Band71

1.1.1 Test Result

Band: 71 / NTNV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	547 - 722	SISO	1	621.725	616.125	653.225	Pass

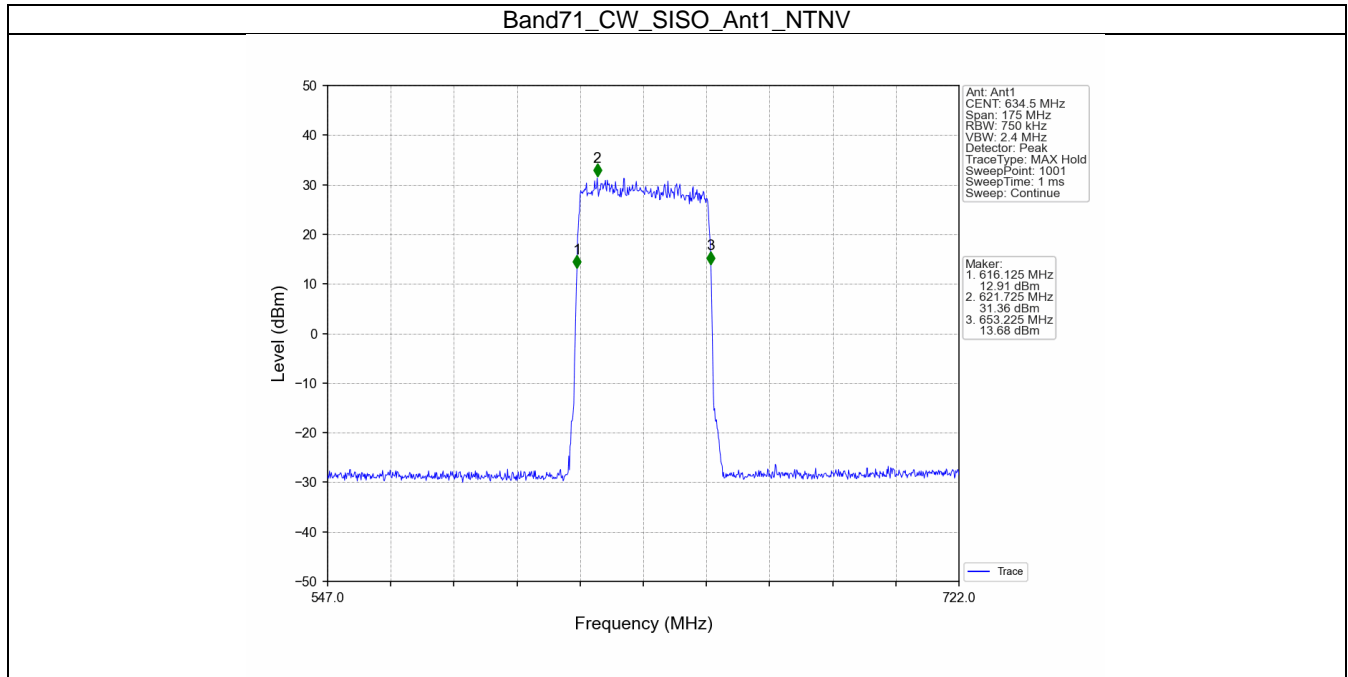


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1.1.2 Test Graph



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## 2. AGC threshold

### 2.1 Band71

#### 2.1.1 Test Result

Band: 71 / NTNV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
AWGN	621.725	SISO	1	0.20	Pass
GMSK	621.725	SISO	1	0.20	Pass



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### 3. Input-versus-output signal comparison

#### 3.1 Band71\_OBW

##### 3.1.1 Test Result

For LTE Band 71

Band: 71 / NTV							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.2	621.725	SISO	1	4.537	4.533	Pass
	3.2	621.725	SISO	1	4.536	4.539	Pass
GMSK	0.2	621.725	SISO	1	0.245	0.245	Pass
	3.2	621.725	SISO	1	0.244	0.245	Pass

For 5G NR N71

N71 / NTV							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.2	634.5	SISO	1	32.408	32.605	Pass
	3.2	634.5	SISO	1	32.501	32.534	Pass

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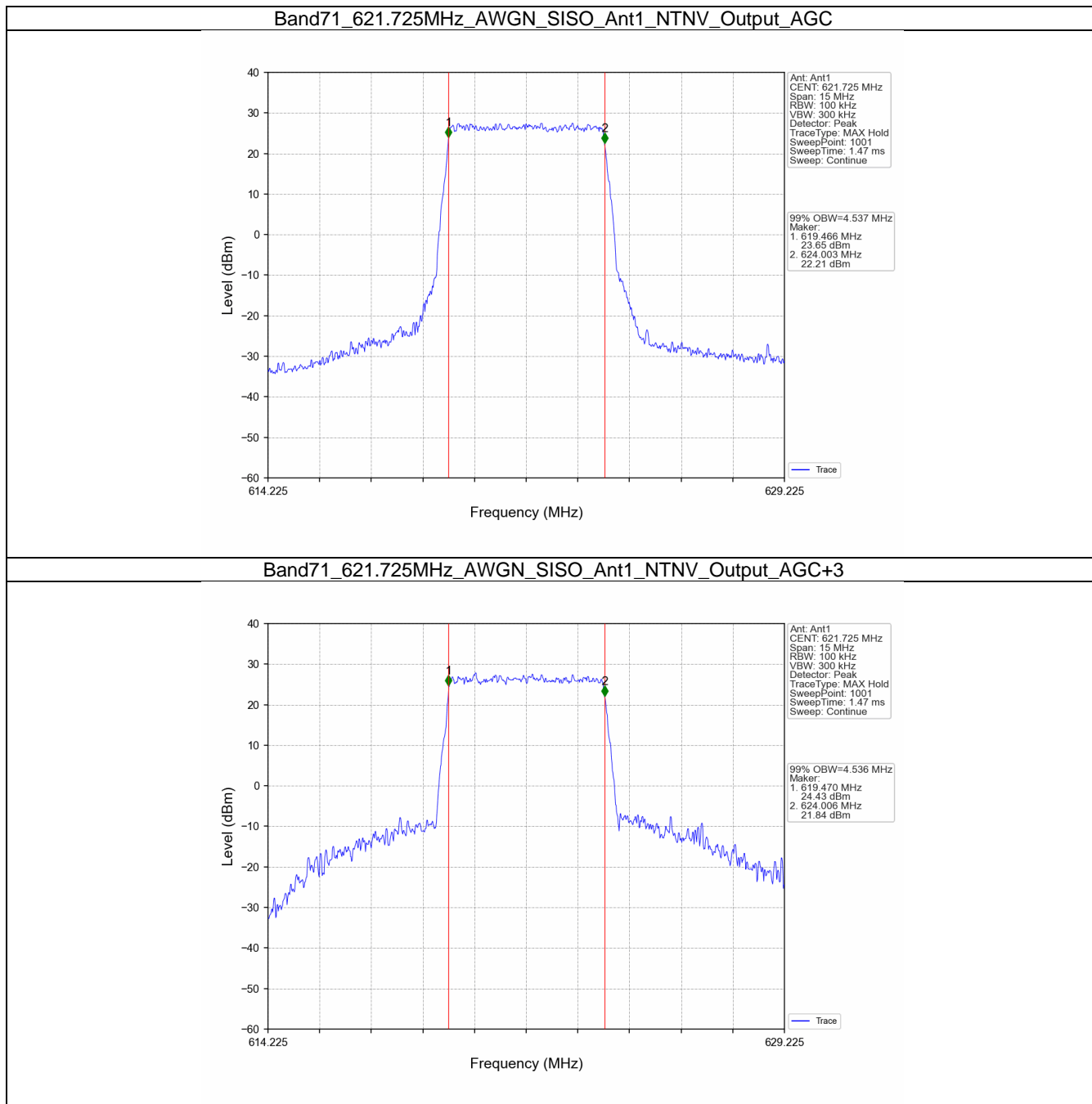


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3.1.2 Test Graph

For LTE Band 71



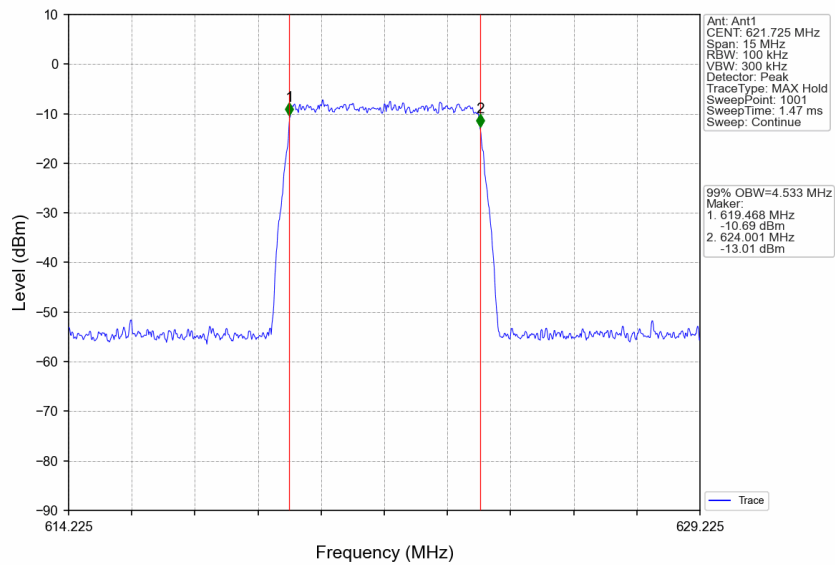
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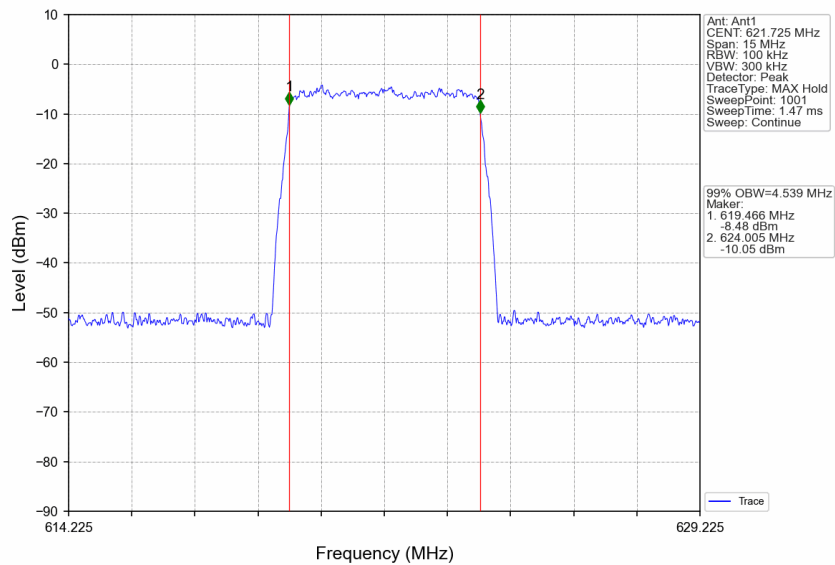
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Band71\_621.725MHz\_AWGN\_SISO\_Ant1\_NTNV\_Input\_AGC



Band71\_621.725MHz\_AWGN\_SISO\_Ant1\_NTNV\_Input\_AGC+3



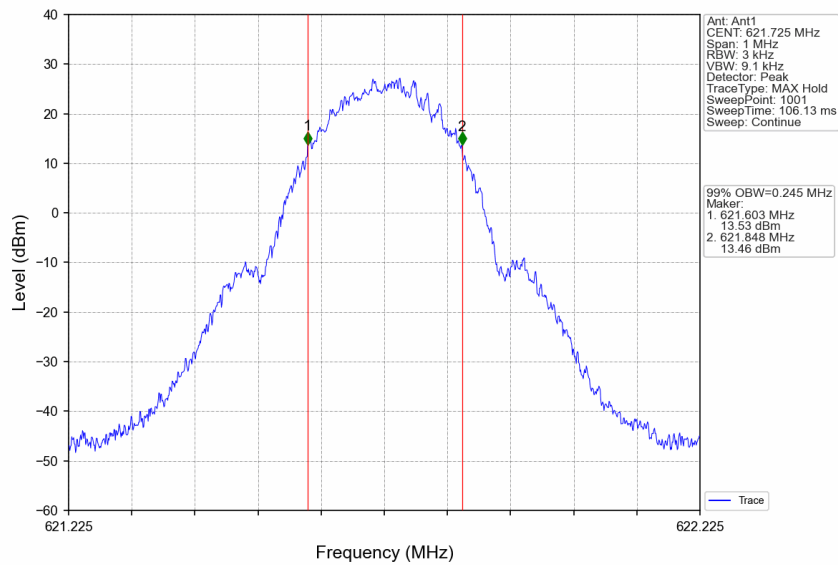
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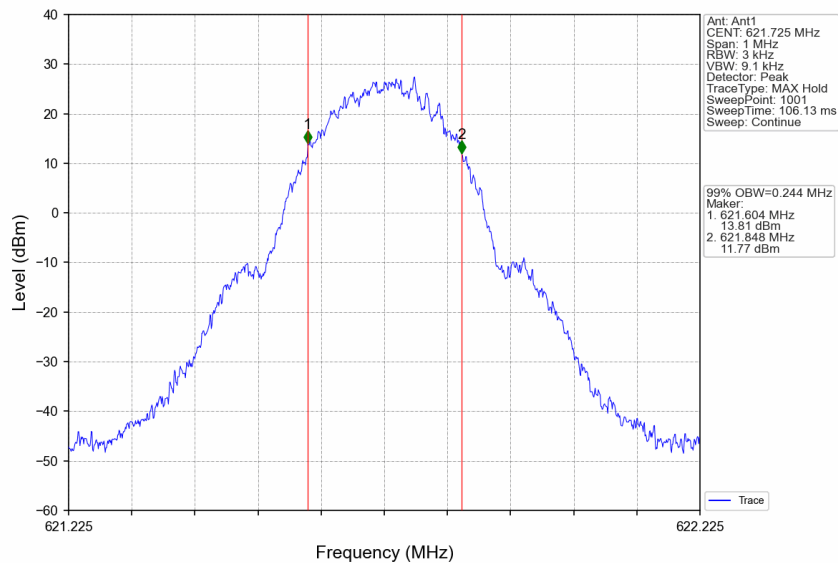
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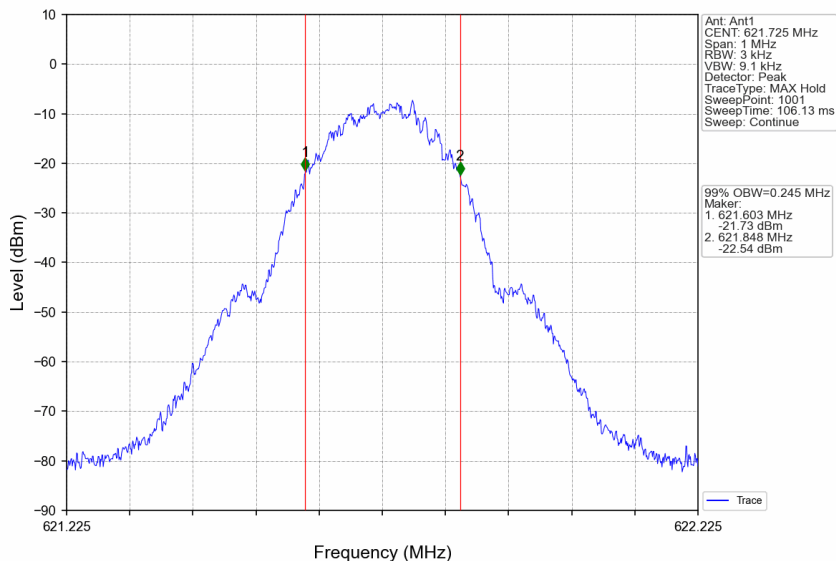


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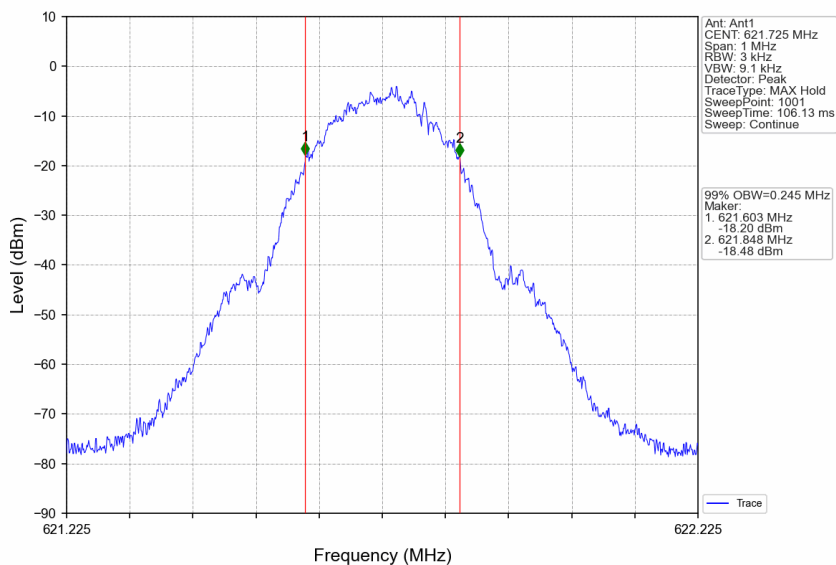
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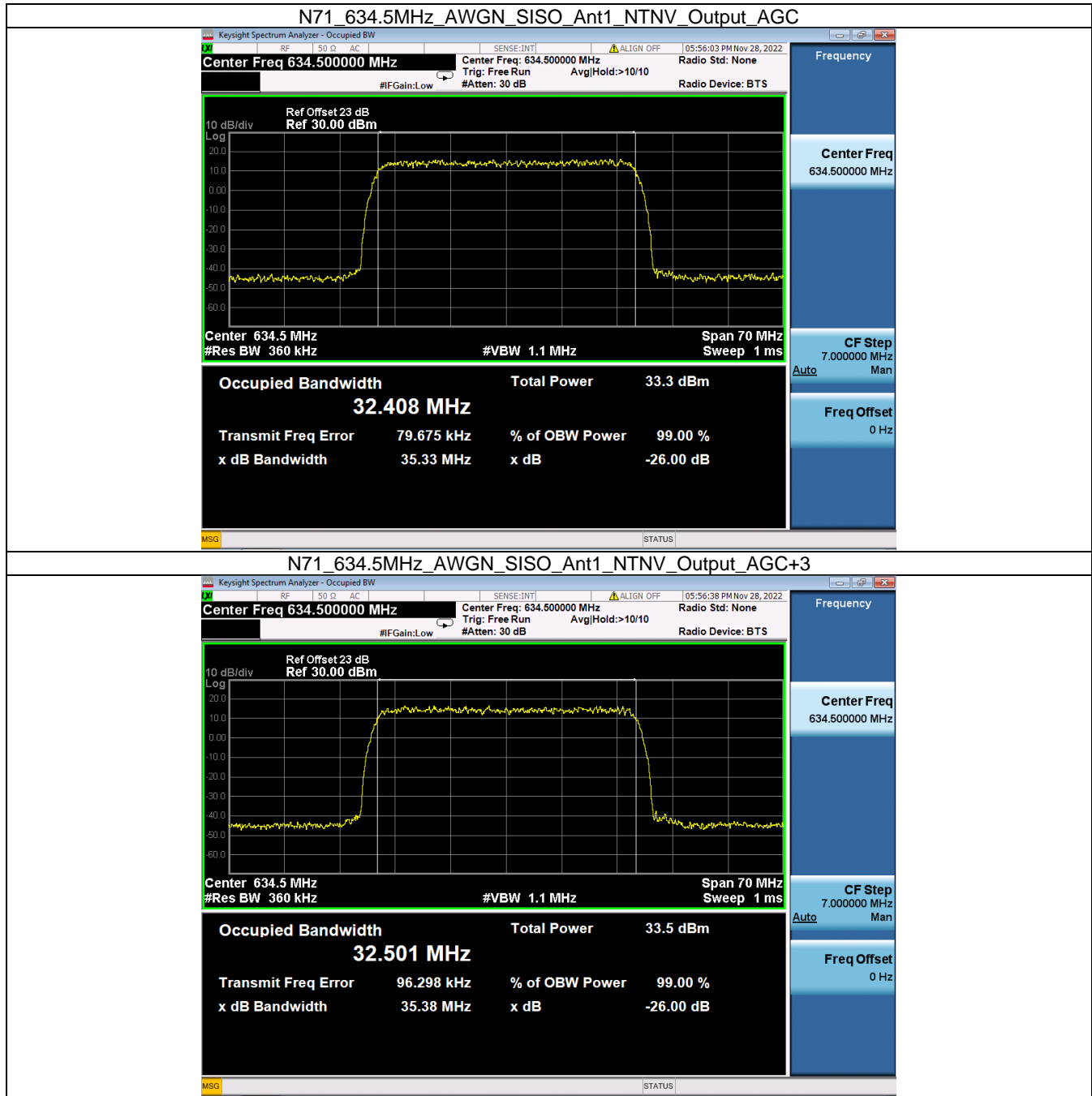
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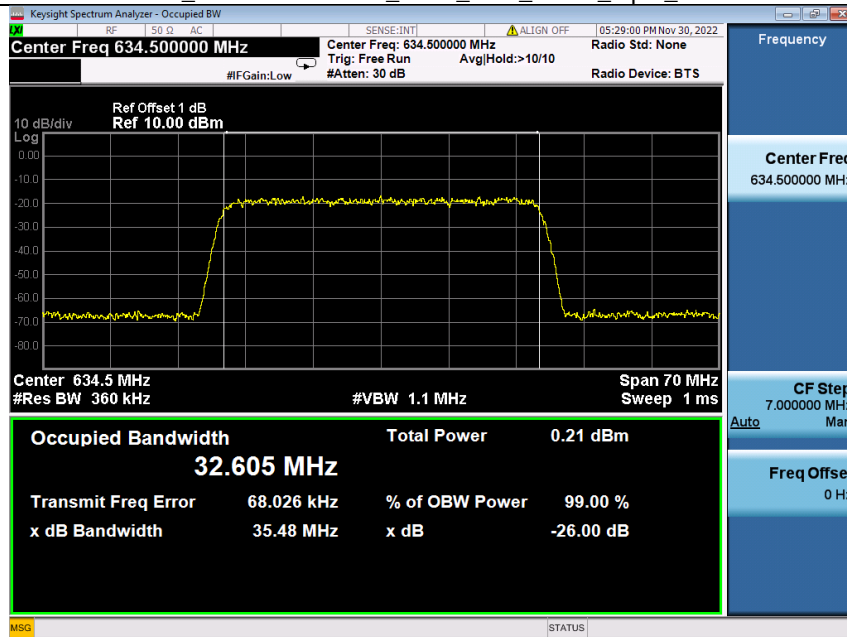
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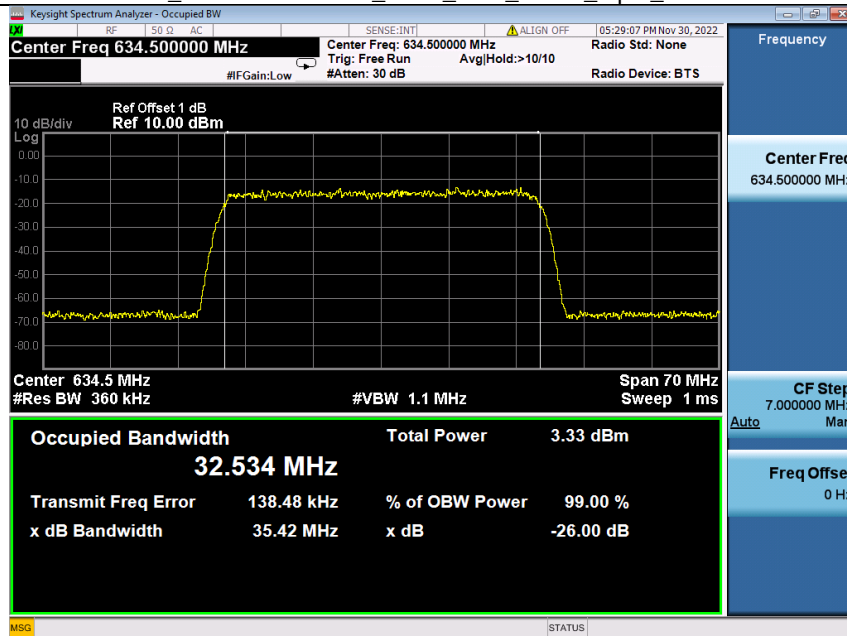
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3.2 Band71\_EBW

3.2.1 Test Result

For LTE Band 71

Band: 71 / NTNV							
Type	Signal		TX Type	ANT	26dB EBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.2	621.725	SISO	1	5.061	5.041	Pass
	3.2	621.725	SISO	1	5.050	5.053	Pass
GMSK	0.2	621.725	SISO	1	0.313	0.316	Pass
	3.2	621.725	SISO	1	0.314	0.314	Pass

For 5GNR N71

N71 / NTNV							
Type	Signal		TX Type	ANT	26dB EBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	0.2	634.5	SISO	1	35.330	35.480	Pass
	3.2	634.5	SISO	1	35.380	35.420	Pass



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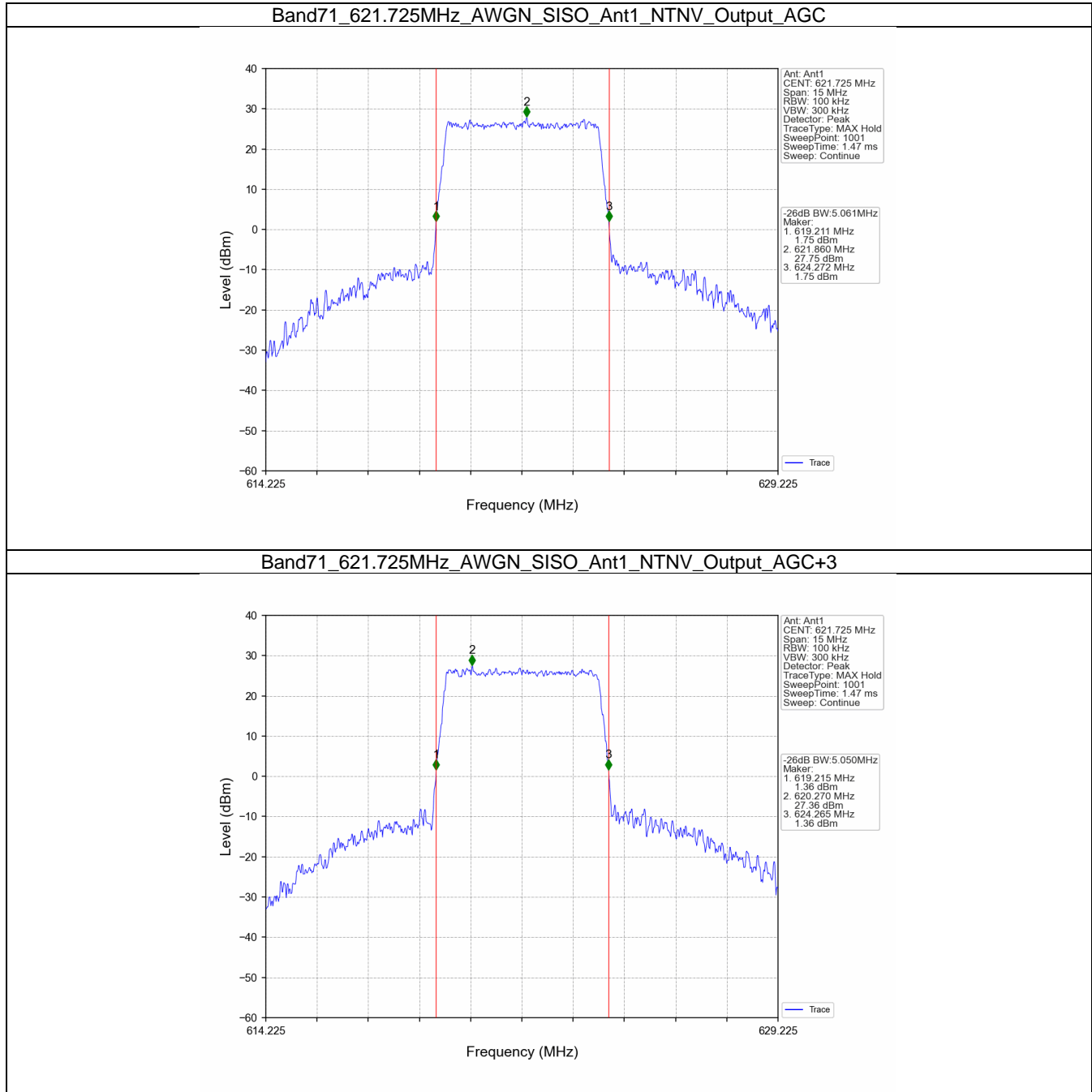
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3.2.2 Test Graph

For LTE Band 71



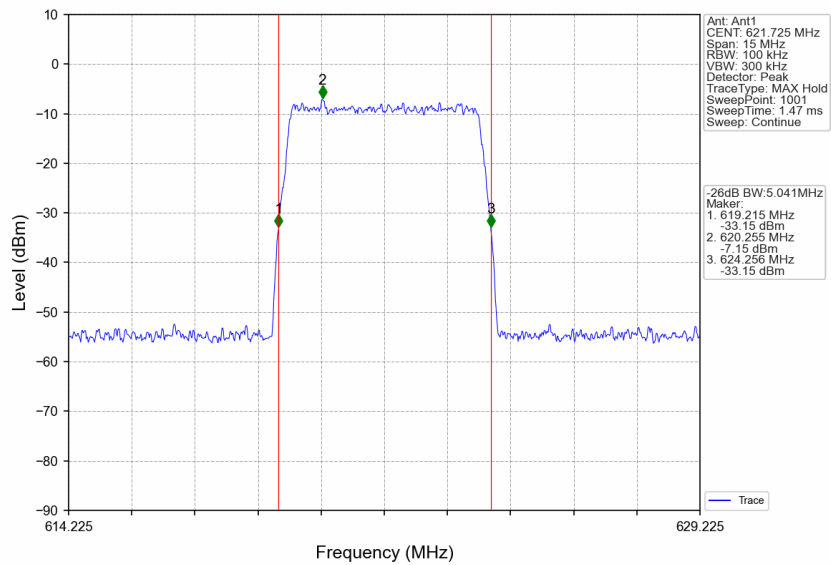
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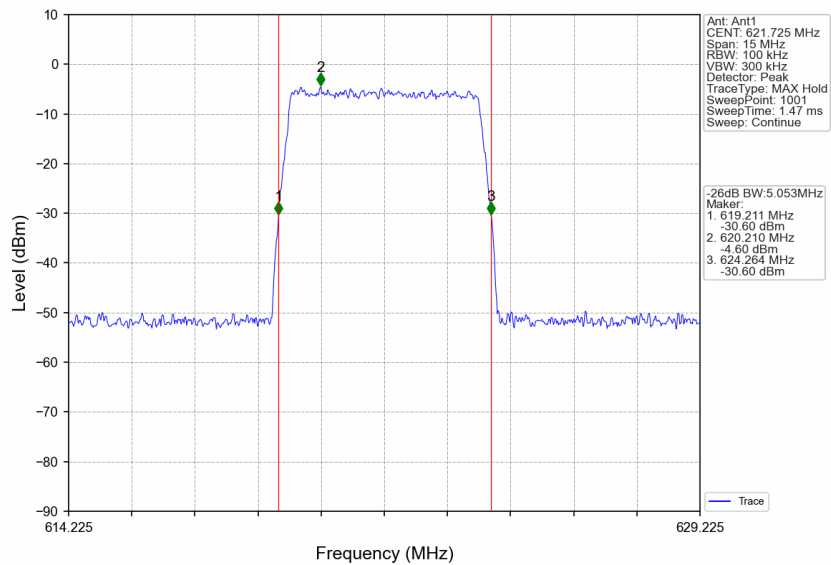
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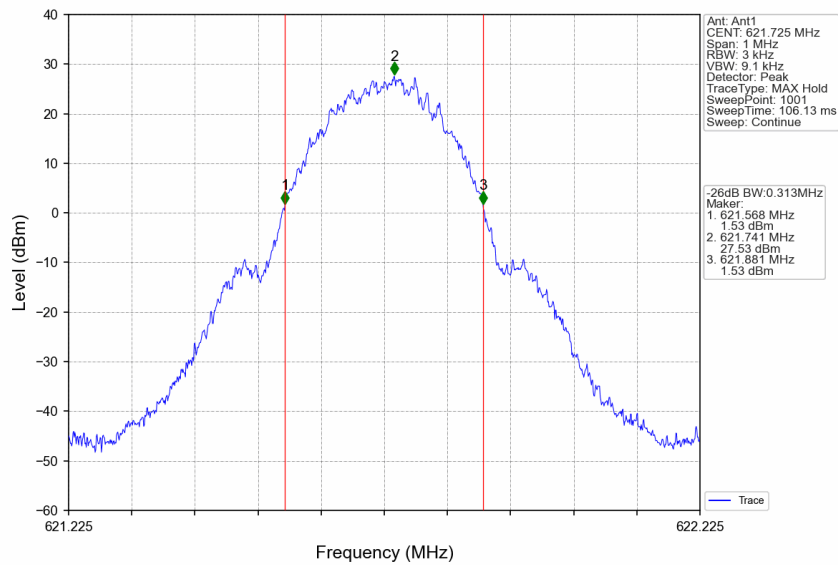
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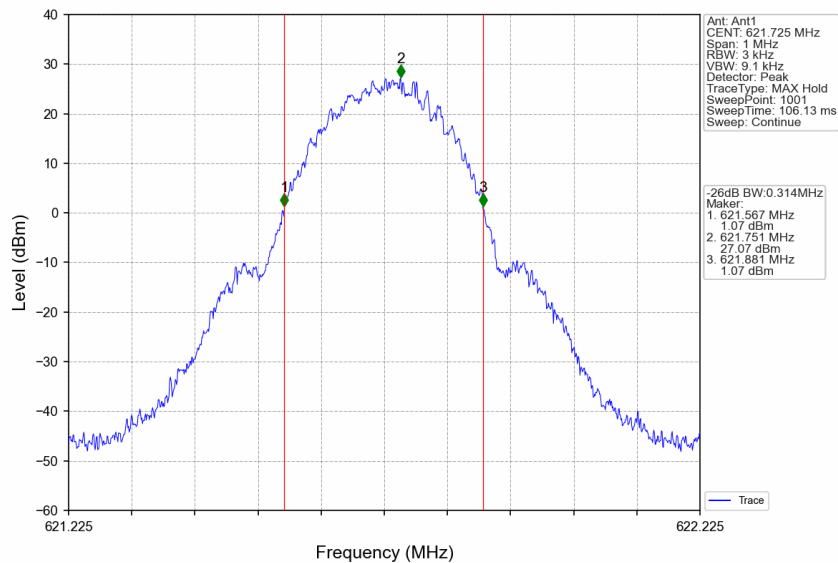
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Band71\_621.725MHz\_GMSK\_SISO\_Ant1\_NTNV\_Output\_AGC



Band71\_621.725MHz\_GMSK\_SISO\_Ant1\_NTNV\_Output\_AGC+3



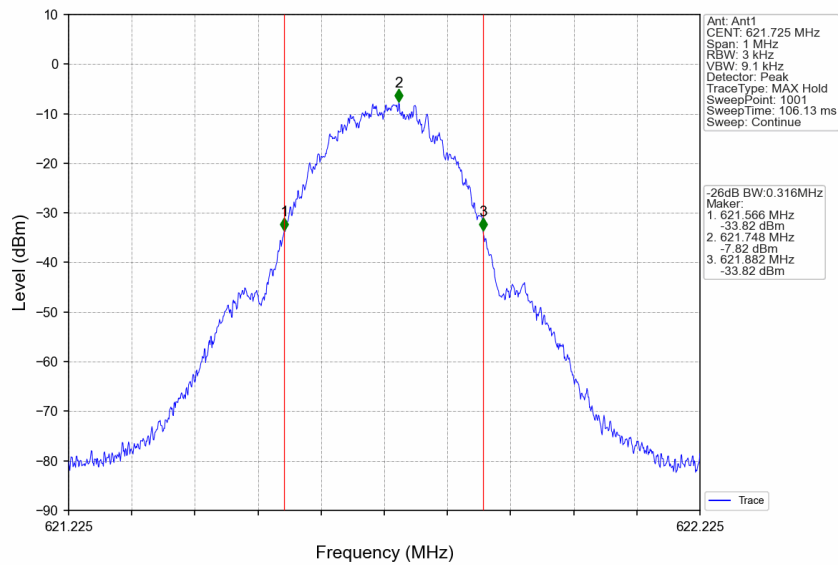
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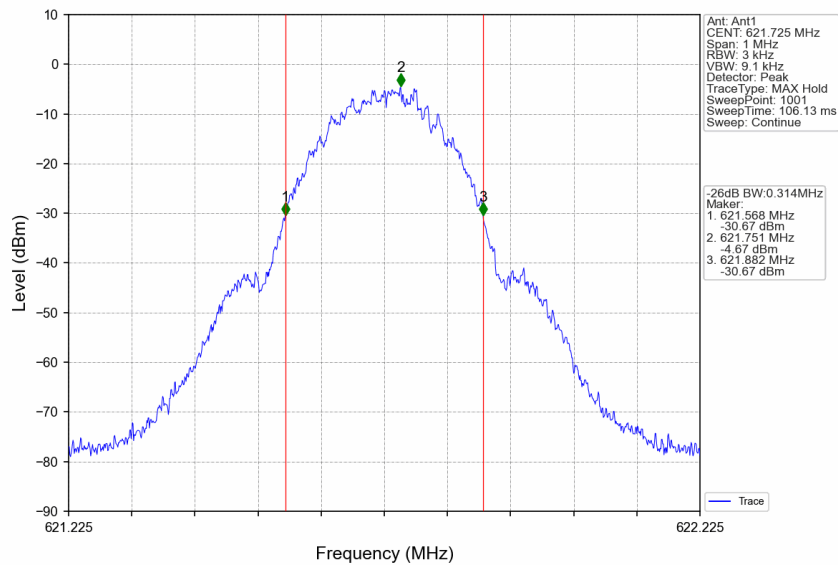
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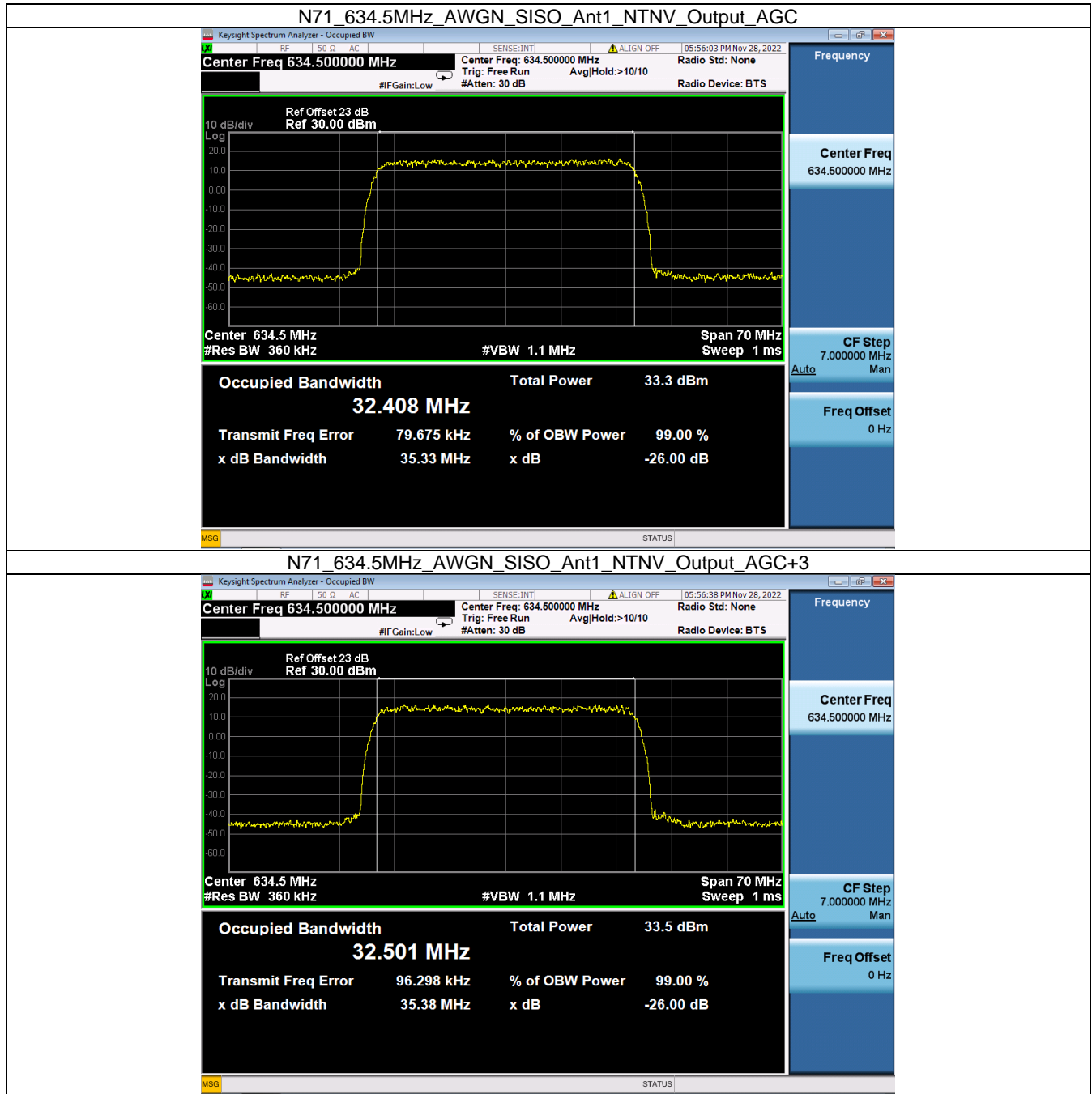
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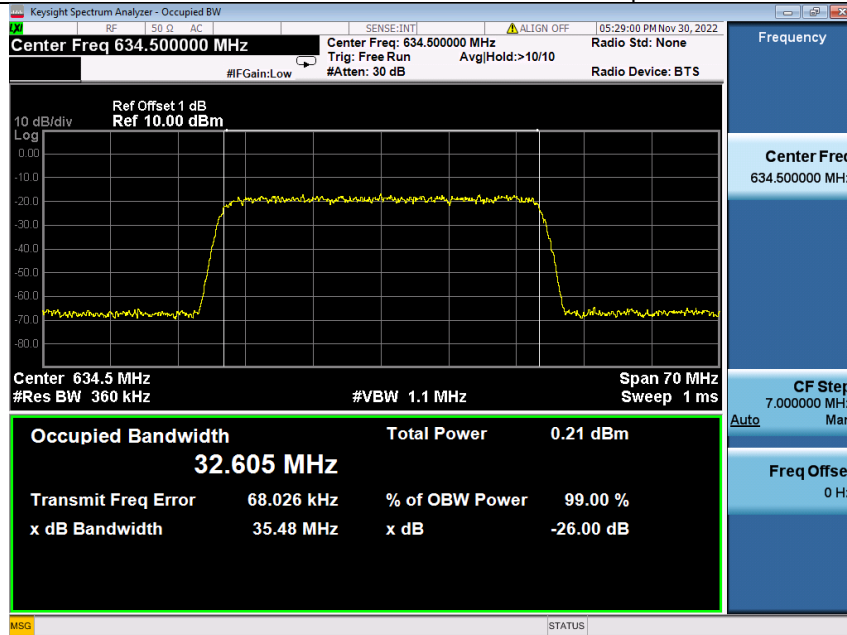
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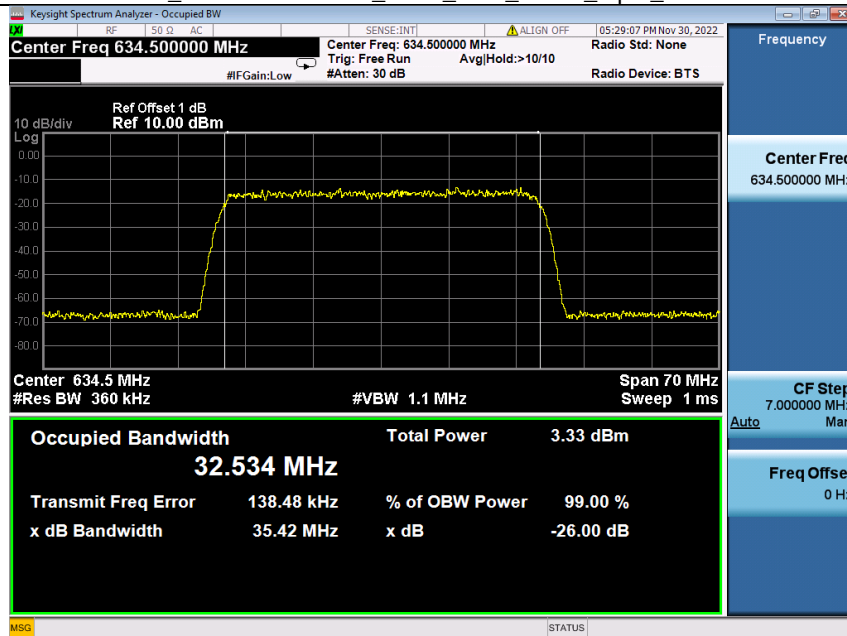
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## N71\_634.5MHz AWGN\_SISO\_Ant1\_NTNV\_Input\_AGC



## N71\_634.5MHz AWGN\_SISO\_Ant1\_NTNV\_Input\_AGC+3



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4. Input/output power and amplifier/booster gain

4.1 Band71\_ERP

4.1.1 Test Result

For LTE Band 71

Band: 71 / NTNV										
Signal			TX Type	ANT	Conducted Power (dBm/MHz)		ERP (dBm/MHz)		Booster Gain (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit		
AWGN	0.2	621.725	SISO	1	26.38	-6.94	36.23	<=60	33.32	Pass
	3.2	621.725	SISO	1	26.72	-3.92	36.57	<=60	/	Pass
GMSK	0.2	621.725	SISO	1	33.06	0.03	42.91	<=60	33.03	Pass
	3.2	621.725	SISO	1	33.13	3.05	42.98	<=60	/	Pass

617MHz-652MHz / NTNV							
Operation Band	Frequency (MHz)	Signal	Signal Level	Input Power (dBm)	Total Output Power (dBm)	ERP(dBm)	Gain (dB)
					SISO	SISO	
617MHz-652MHz	621.725	AWGN	Pre-AGC	0.2	33.37	43.22	/
			3dB Above AGC	3.2	33.71	43.56	/
	621.725	GMSK	Pre-AGC	0.2	33.06	42.91	/
			3dB Above AGC	3.2	33.13	42.98	/



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For 5GNR N71

N71 / N71V										
Signal			TX Type	ANT	Conducted Power (dBm/MHz)		ERP (dBm/MHz)		Booster Gain (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit		
AWGN	0.2	634.5	SISO	1	17.87	-15.32	27.72	<=60	33.19	Pass
	3.2	634.5	SISO	1	18.11	-12.27	27.96	<=60	/	Pass

617MHz-652MHz / N71V							
Operation Band	Frequency (MHz)	Signal	Signal Level	Input Power (dBm)	Total Output Power (dBm)	ERP(dBm)	Gain (dB)
					SISO	SISO	
617MHz-652MHz	634.5	AWGN	Pre-AGC	0.2	33.31	43.16	/
			3dB Above AGC	3.2	33.55	43.40	/



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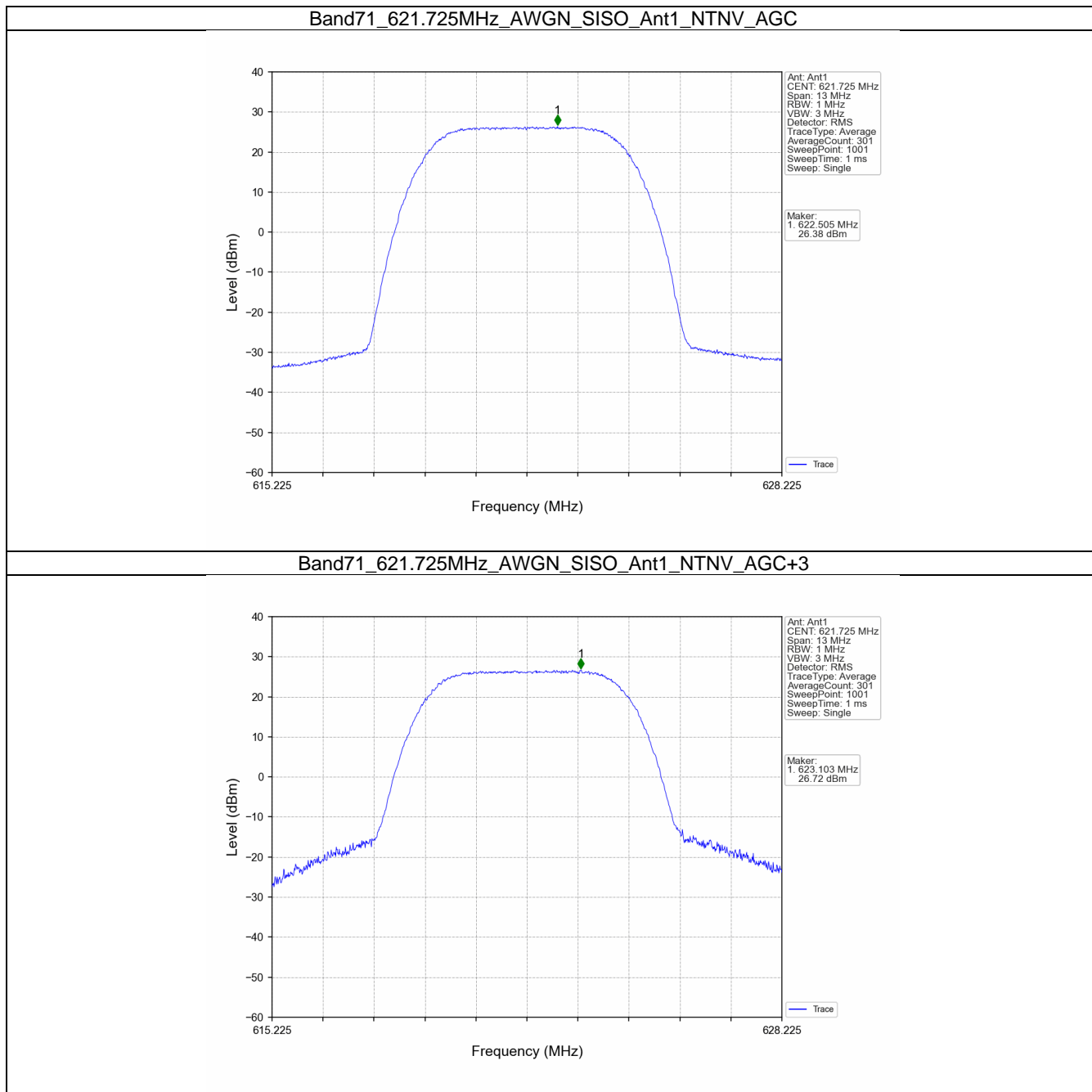
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## 4.1.2 Test Graph

### For LTE Band 71



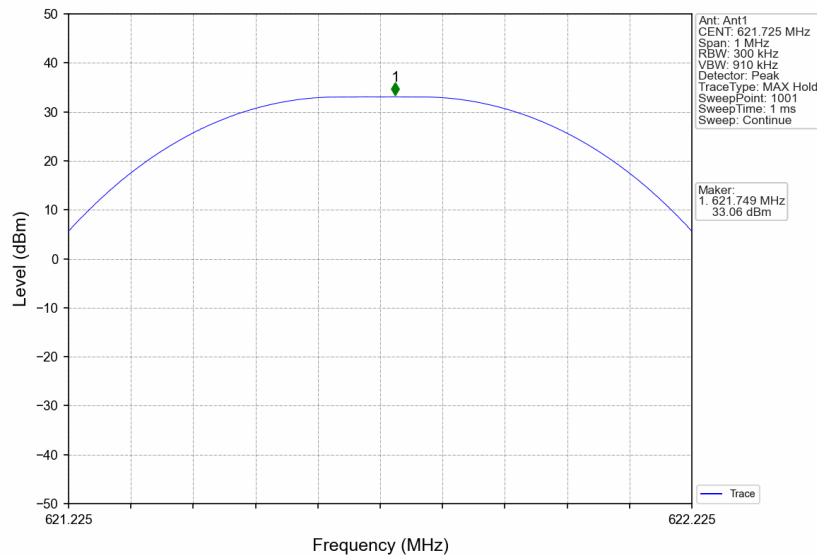
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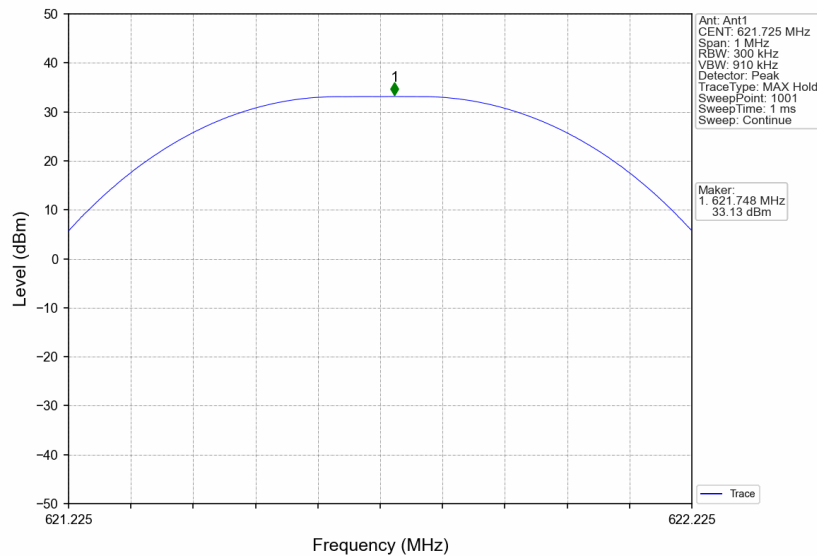
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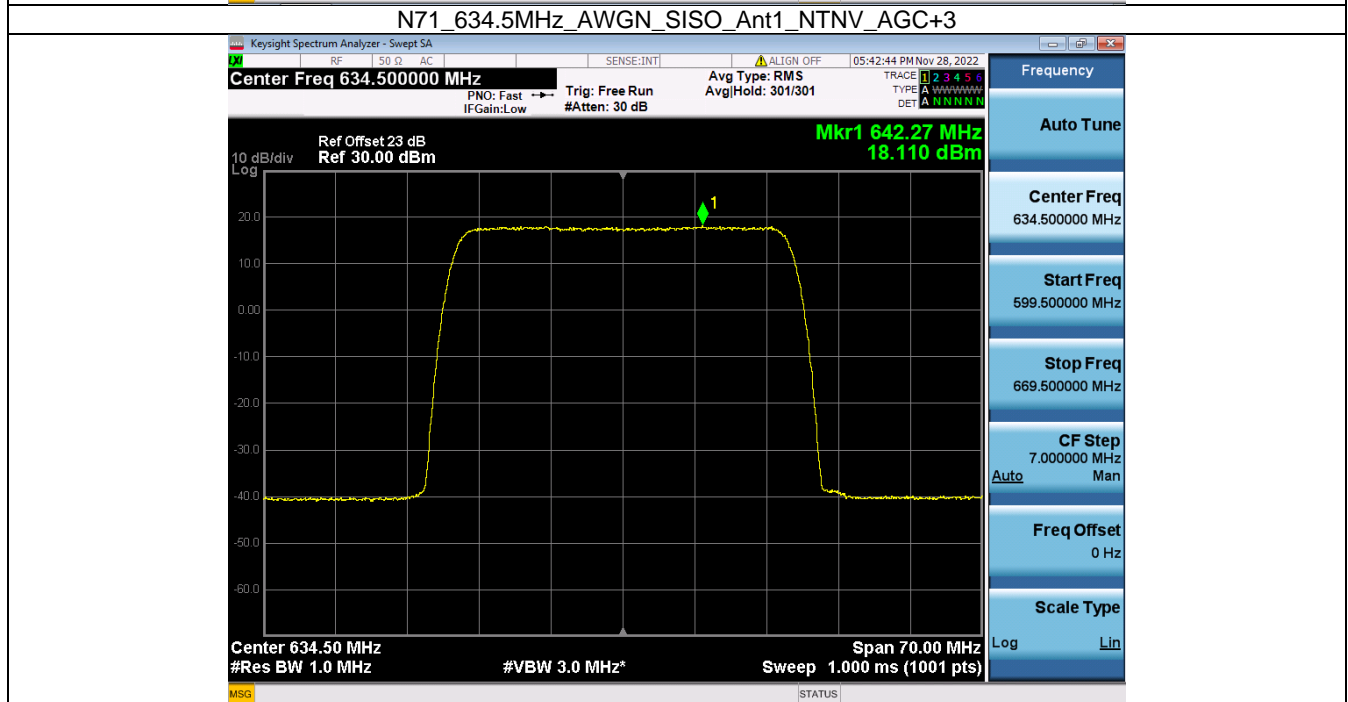
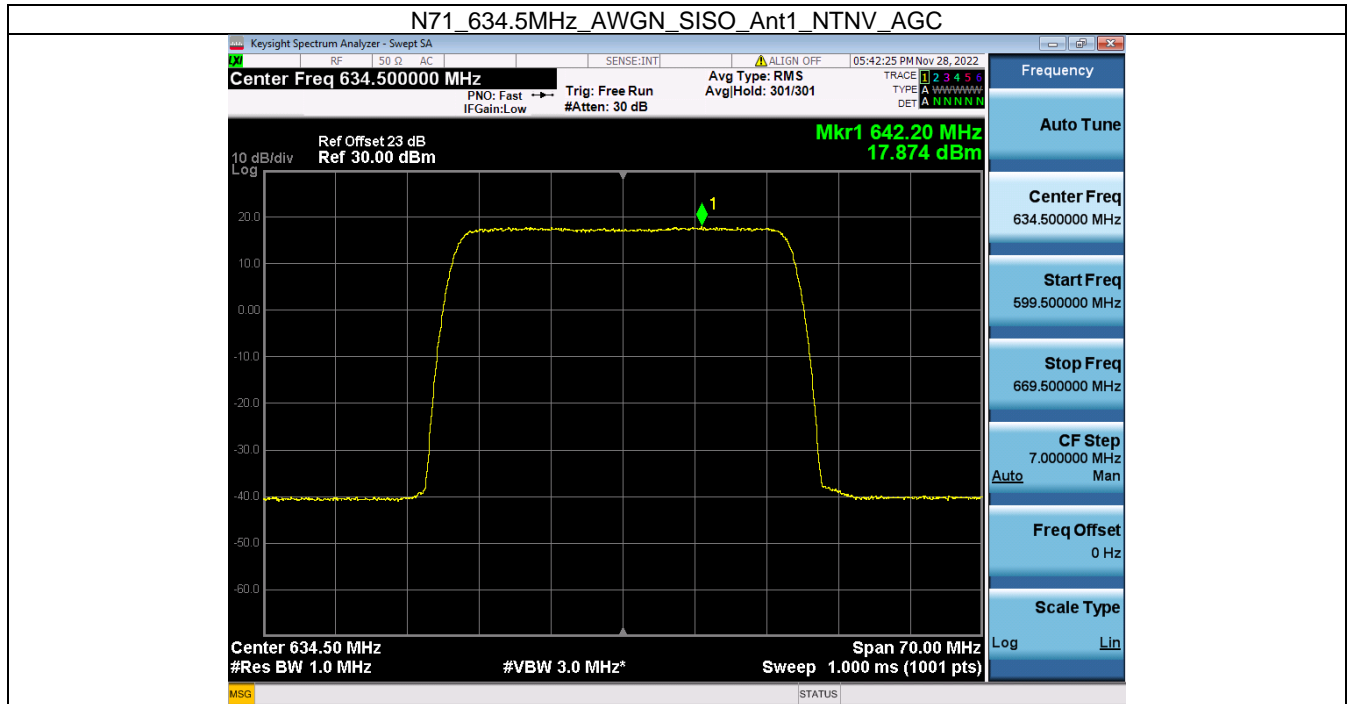


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4.2 Band71\_PAPR

4.2.1 Test Result

For LTE Band 71

Band: 71 / NTNV							
Type	Signal		TX Type	ANT	PAPR (dB)		Verdict
	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	0.2	621.725	SISO	1	8.18	<=13	Pass
	3.2	621.725	SISO	1	8.14	<=13	Pass
GMSK	0.2	621.725	SISO	1	0.39	<=13	Pass
	3.2	621.725	SISO	1	0.29	<=13	Pass

For 5G NR N71

N71 / NTNV							
Type	Signal		TX Type	ANT	PAPR (dB)		Verdict
	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	0.2	634.5	SISO	1	8.40	<=13	Pass
	3.2	634.5	SISO	1	8.39	<=13	Pass

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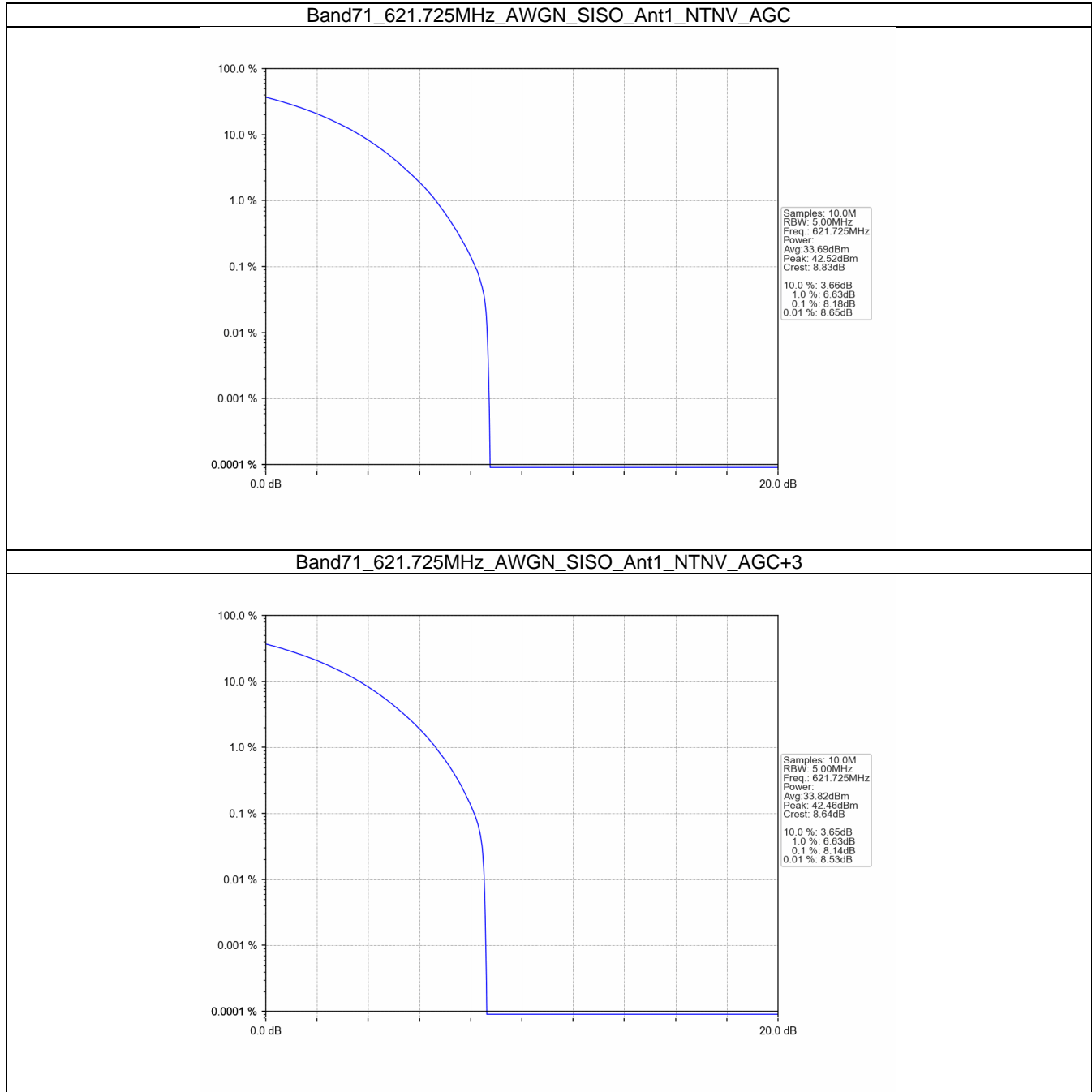
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4.2.2 Test Graph

For LTE Band 71



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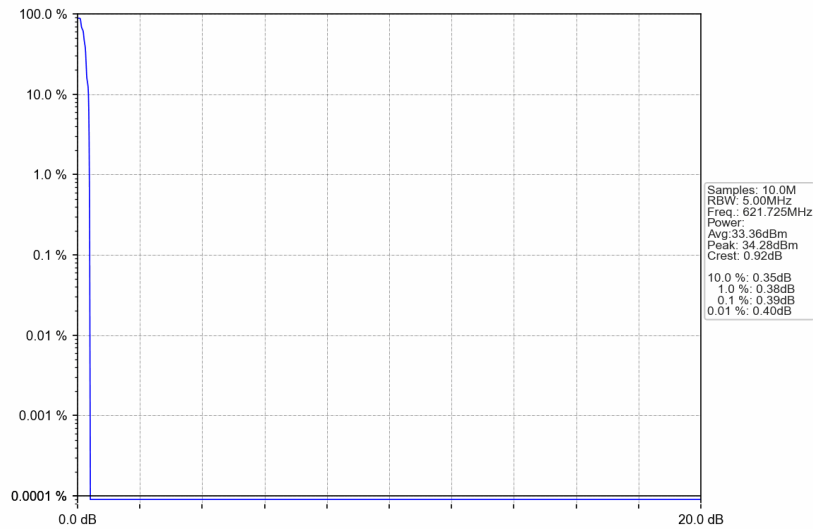
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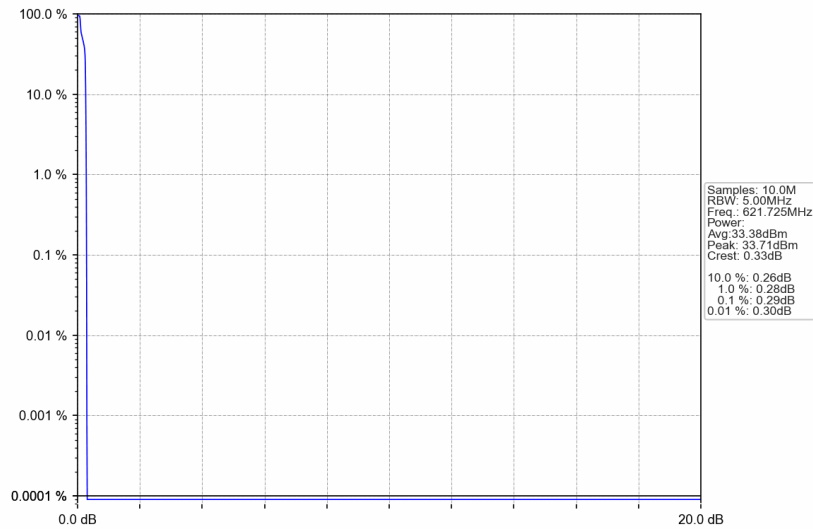
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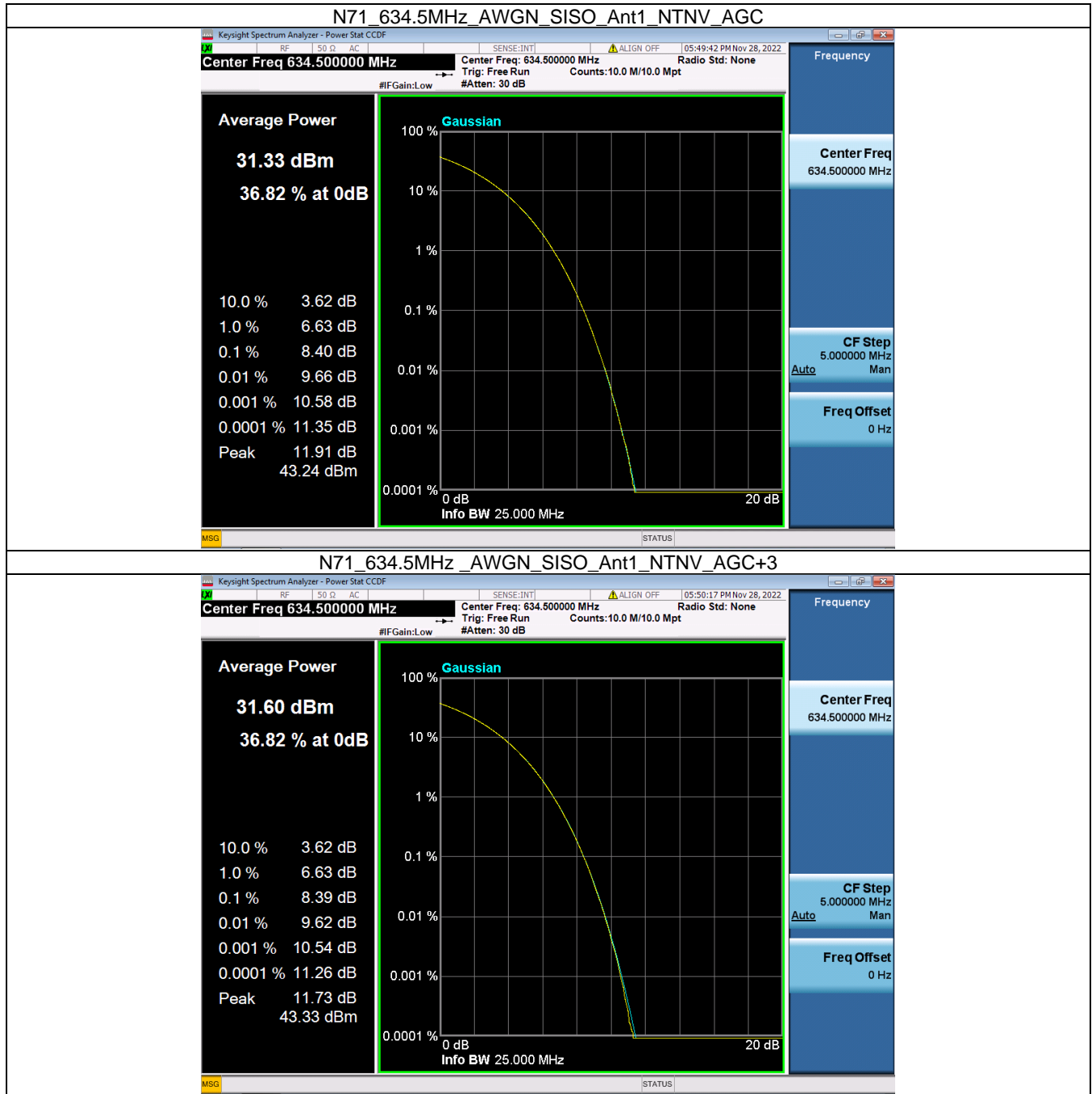
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5. Out-of-band/out-of-block (including intermodulation) emissions

5.1 Band71

5.1.1 Test Result

For LTE Band 71

Band: 71 / NTNV									
Signal				Channel	TX Type	ANT	OOB (dBm)		Verdict
Input	Type	Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	0.2	619.5	LCH	SISO	1	-65.22	Refer To Test Graph	Pass
		3.2	619.5	LCH	SISO	1	-65.39	Refer To Test Graph	Pass
One	AWGN	0.2	619.5	LCH	SISO	1	-65.33	Refer To Test Graph	Pass
		3.2	619.5	LCH	SISO	1	-65.49	Refer To Test Graph	Pass
Two	AWGN	0.2	649.5	HCH	SISO	1	-68.81	Refer To Test Graph	Pass
		3.2	649.5	HCH	SISO	1	-69.23	Refer To Test Graph	Pass
One	AWGN	0.2	649.5	HCH	SISO	1	-69.45	Refer To Test Graph	Pass
		3.2	649.5	HCH	SISO	1	-68.98	Refer To Test Graph	Pass
Two	GMSK	0.2	617.1	LCH	SISO	1	-77.47	Refer To Test Graph	Pass
		3.2	617.1	LCH	SISO	1	-77.20	Refer To Test Graph	Pass
One	GMSK	0.2	617.1	LCH	SISO	1	-77.31	Refer To Test Graph	Pass
		3.2	617.1	LCH	SISO	1	-77.61	Refer To Test Graph	Pass
Two	GMSK	0.2	651.9	HCH	SISO	1	-81.35	Refer To Test Graph	Pass
		3.2	651.9	HCH	SISO	1	-81.19	Refer To Test Graph	Pass
One	GMSK	0.2	651.9	HCH	SISO	1	-81.34	Refer To Test Graph	Pass
		3.2	651.9	HCH	SISO	1	-80.77	Refer To Test Graph	Pass

For 5G NR N71

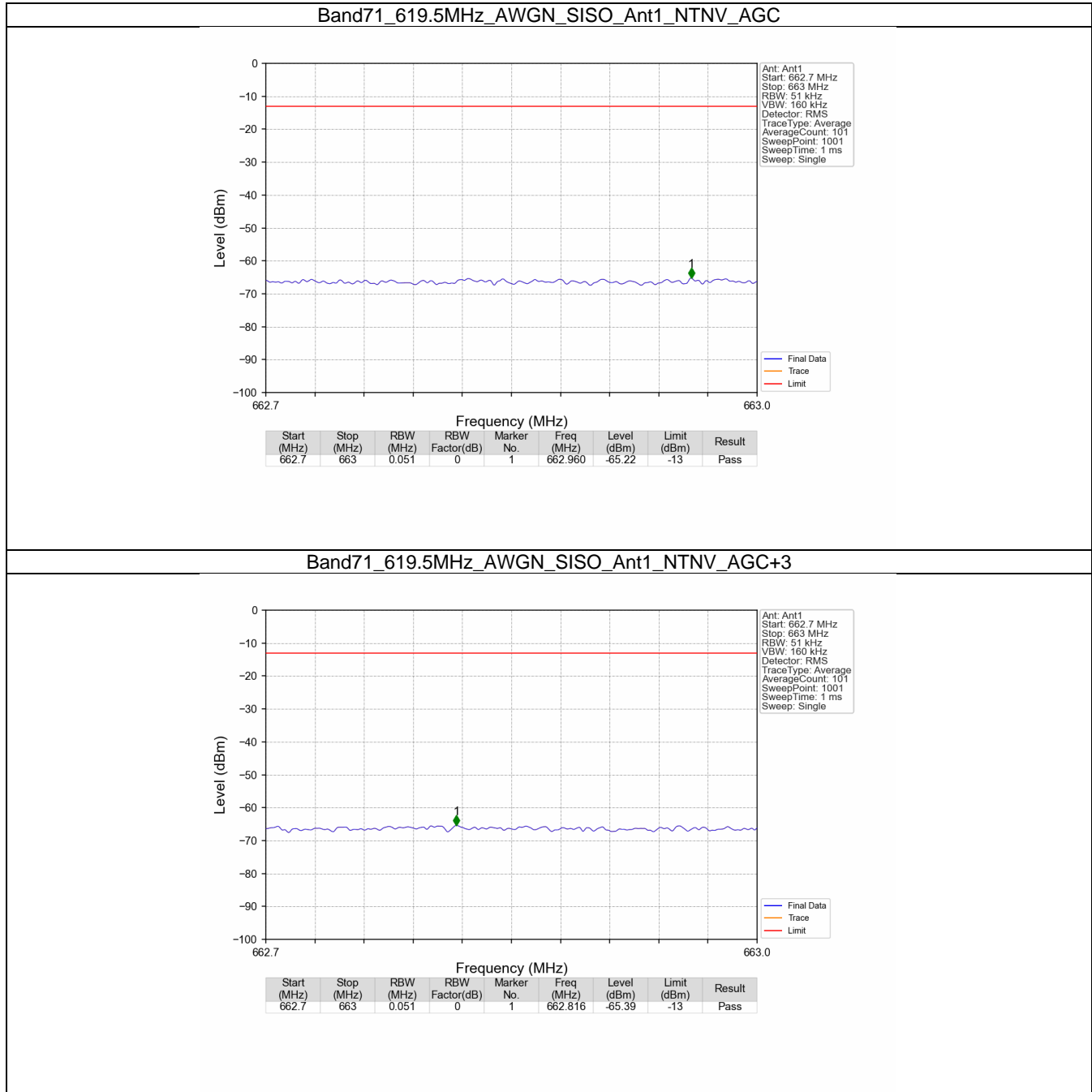
N71 / NTNV									
Signal				Channel	TX Type	ANT	OOB (dBm)		Verdict
Input	Type	Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	0.2	634.5	MCH	SISO	1	-38.804	Refer To Test Graph	Pass
		3.2	634.5	MCH	SISO	1	-38.961	Refer To Test Graph	Pass
One	AWGN	0.2	634.5	MCH	SISO	1	-38.971	Refer To Test Graph	Pass
		3.2	634.5	MCH	SISO	1	-38.840	Refer To Test Graph	Pass
Two	AWGN	0.2	634.5	MCH	SISO	1	-39.491	Refer To Test Graph	Pass
		3.2	634.5	MCH	SISO	1	-39.234	Refer To Test Graph	Pass
One	AWGN	0.2	634.5	MCH	SISO	1	-39.322	Refer To Test Graph	Pass
		3.2	634.5	MCH	SISO	1	-39.486	Refer To Test Graph	Pass



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5.1.2 Test Graph

For LTE Band 71

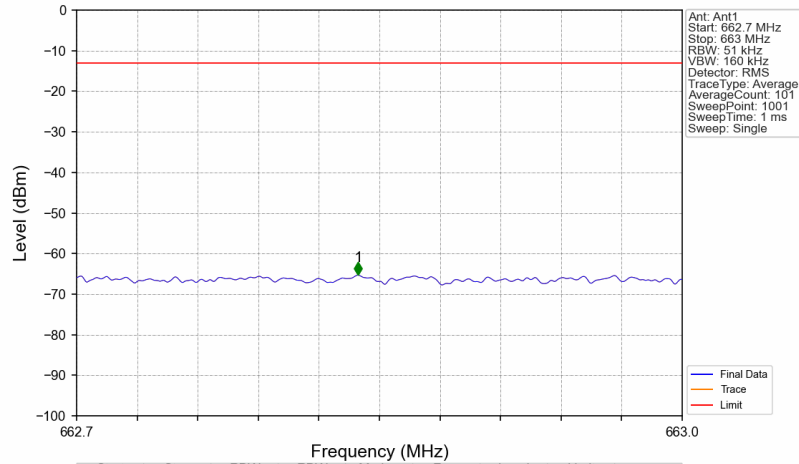


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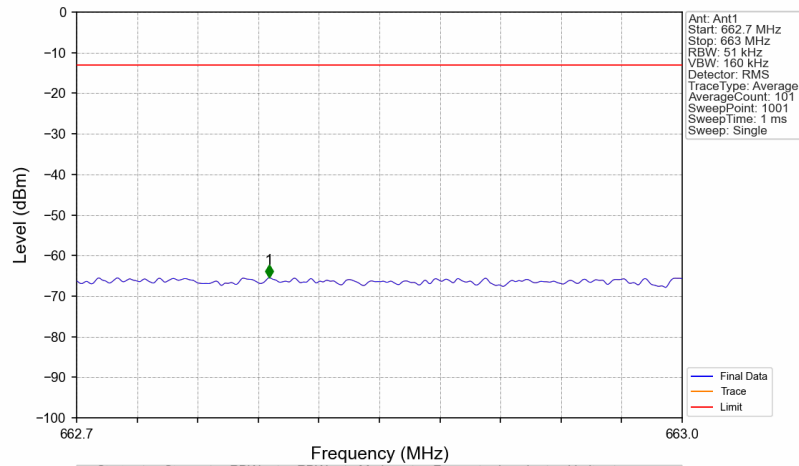
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### Band71\_619.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



### Band71\_619.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



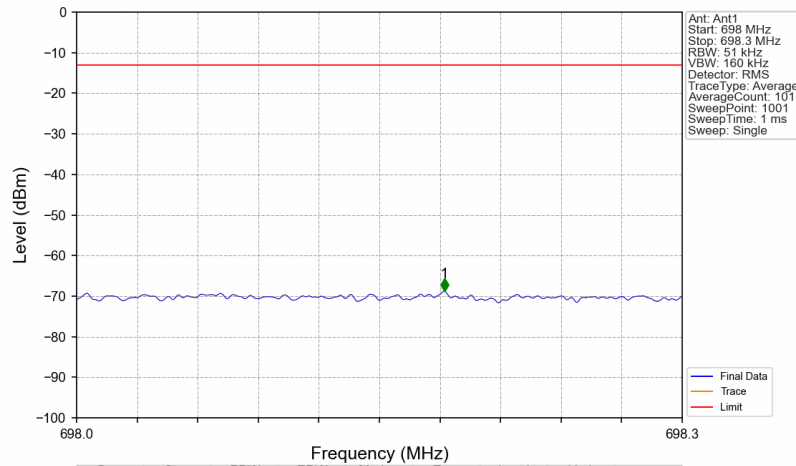
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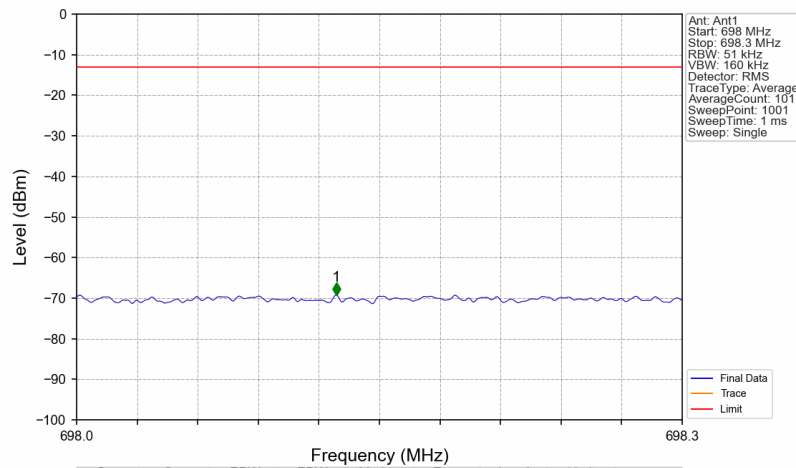
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### Band71\_649.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



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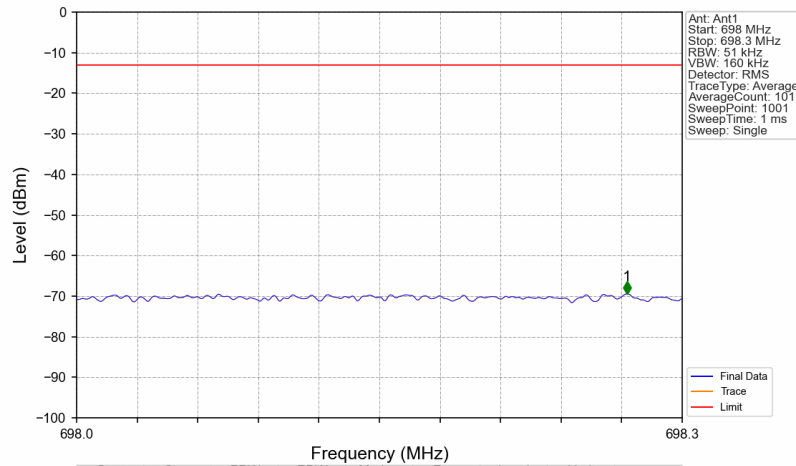


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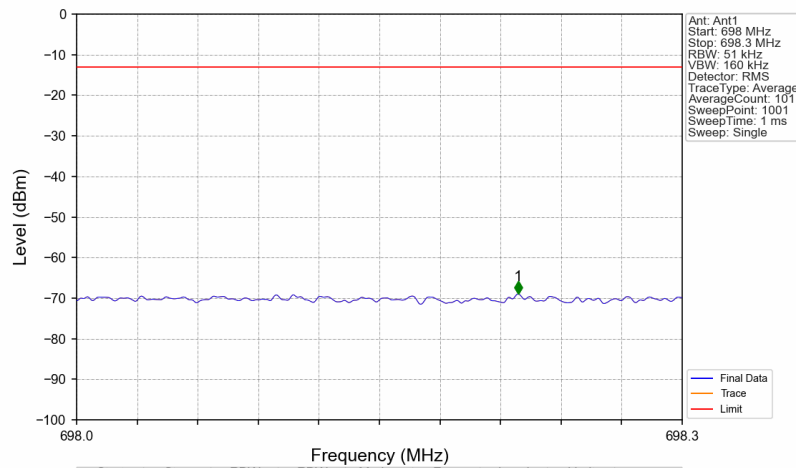
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### Band71\_649.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC



### Band71\_649.5MHz\_AWGN\_SISO\_Ant1\_NTNV\_AGC+3



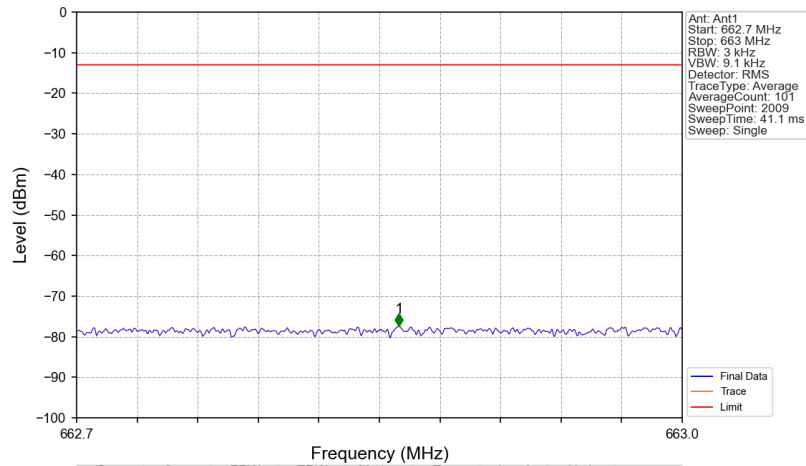
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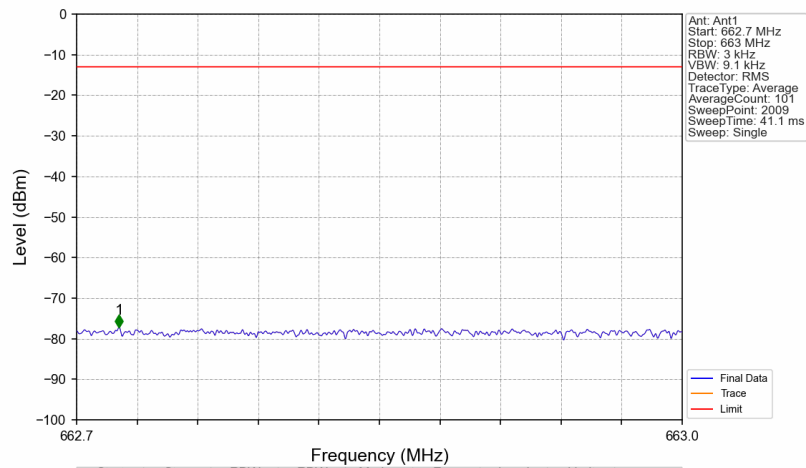
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Band71\_617.1MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



Band71\_617.1MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3



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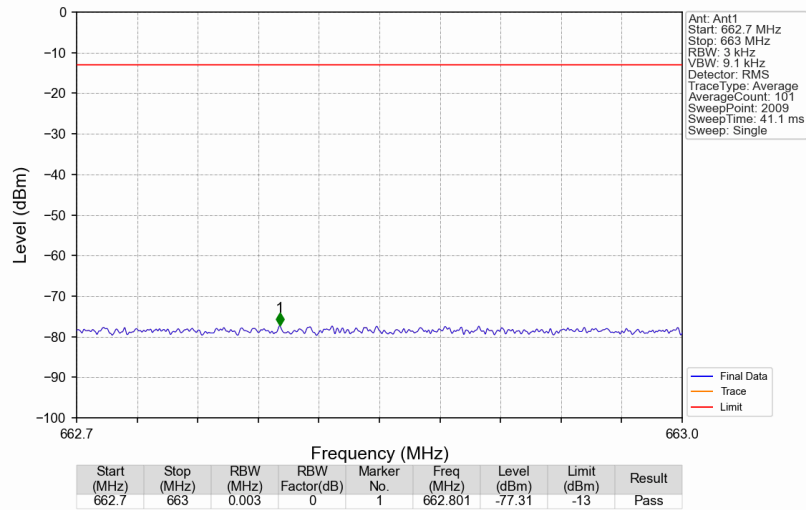
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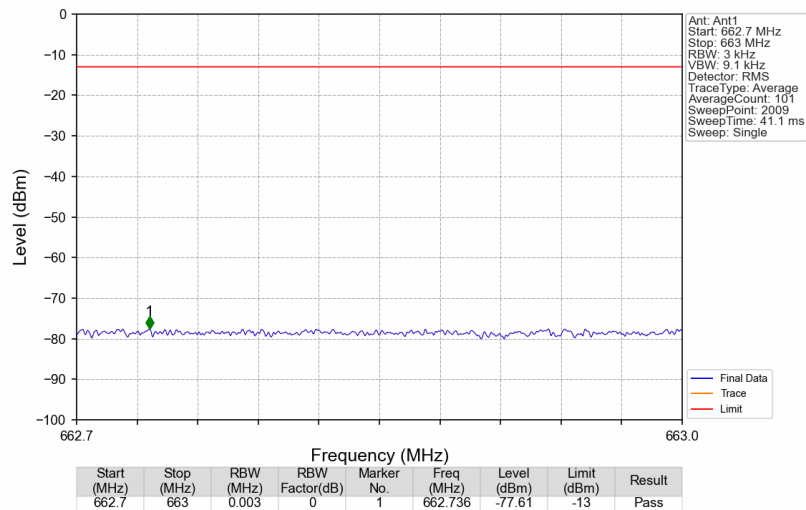
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Band71\_617.1MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



Band71\_617.1MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3



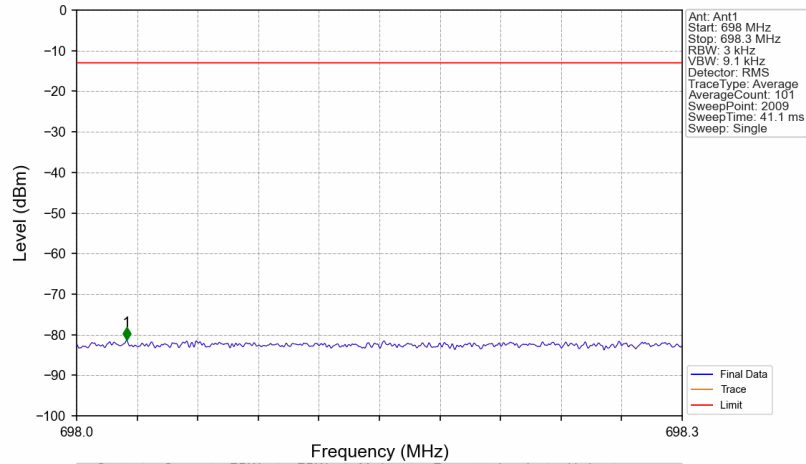
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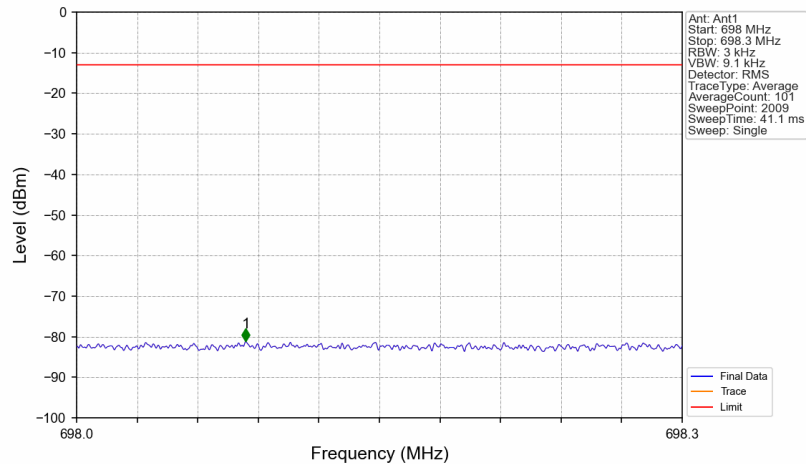
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### Band71\_651.9MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC



### Band71\_651.9MHz\_GMSK\_SISO\_Ant1\_NTNV\_AGC+3



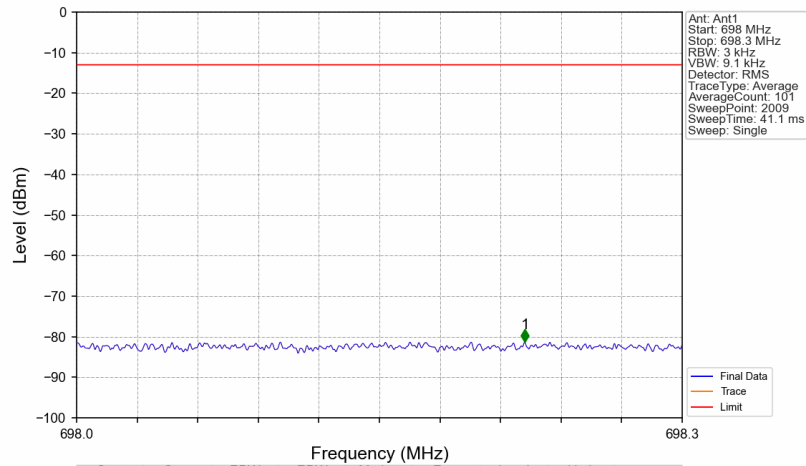
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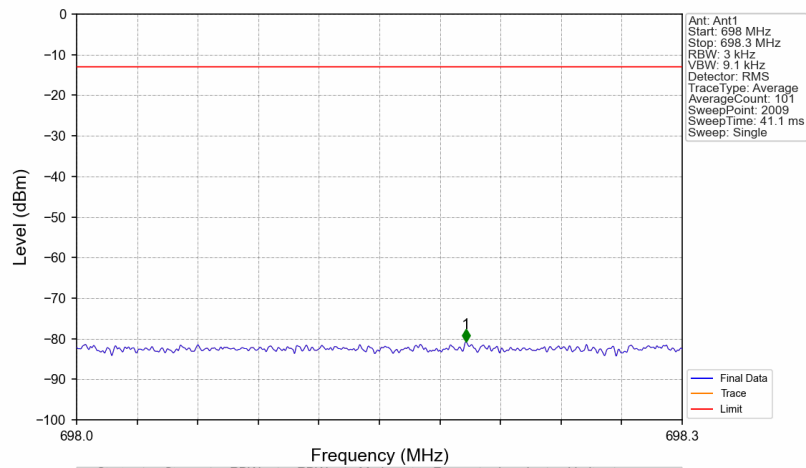
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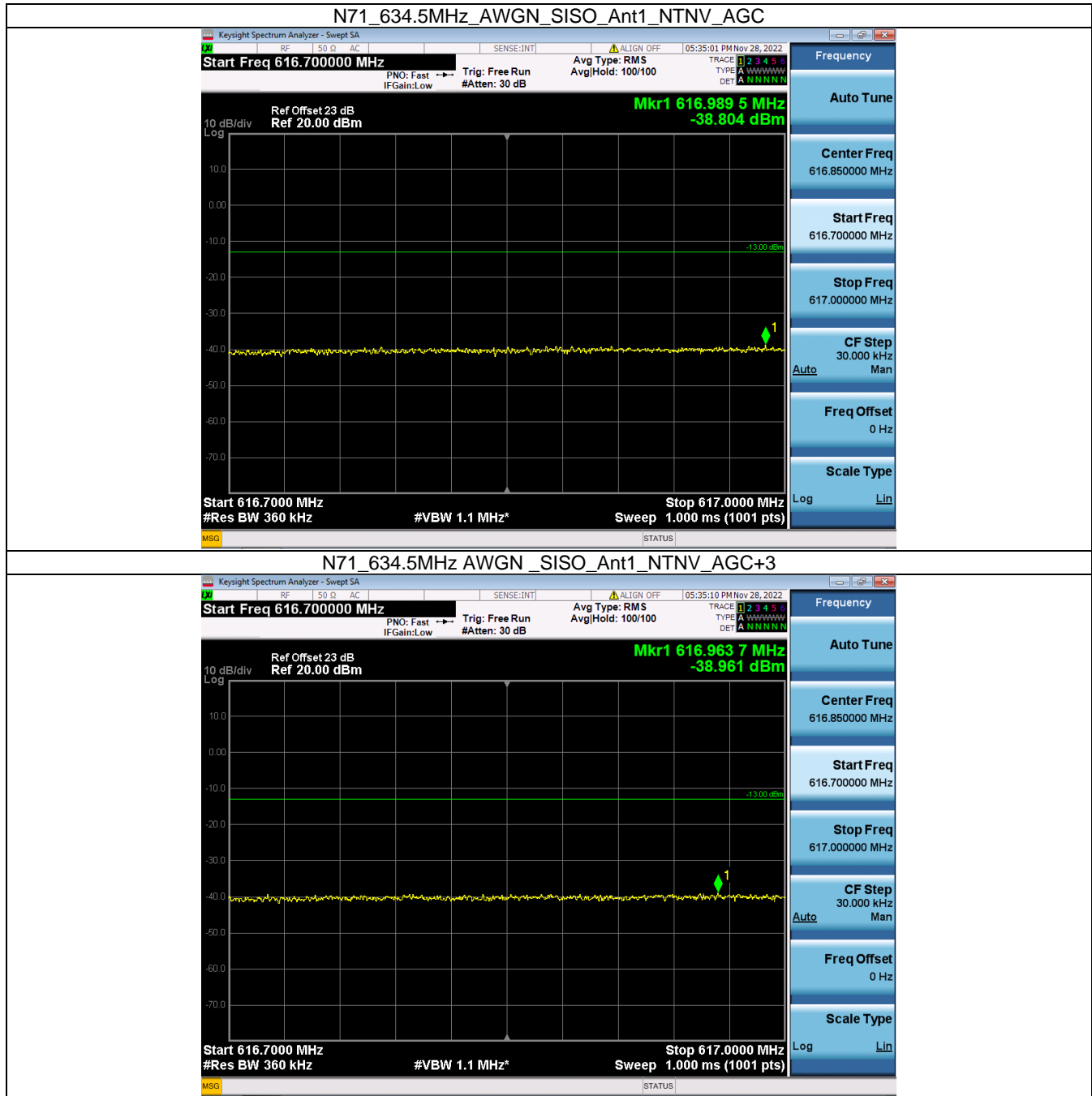
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For 5GNR N71



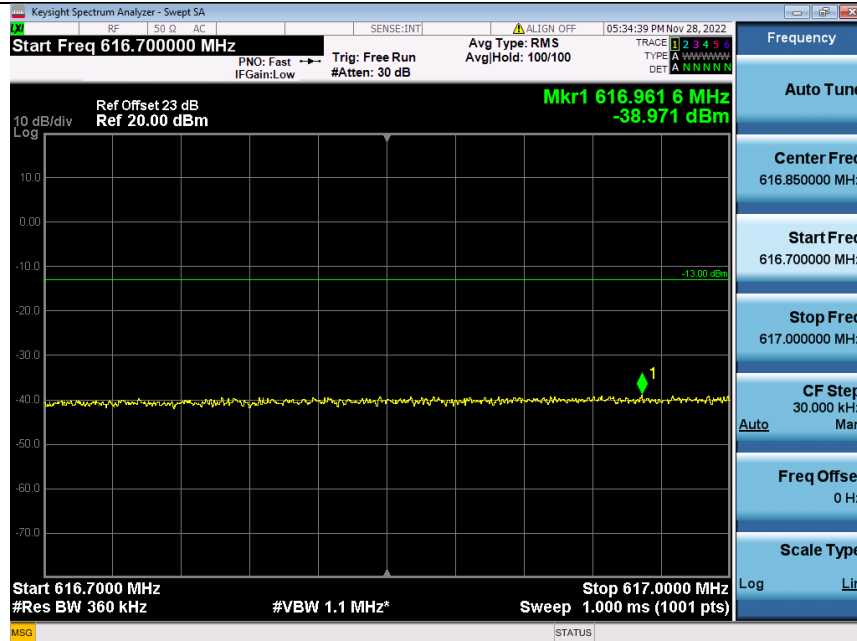
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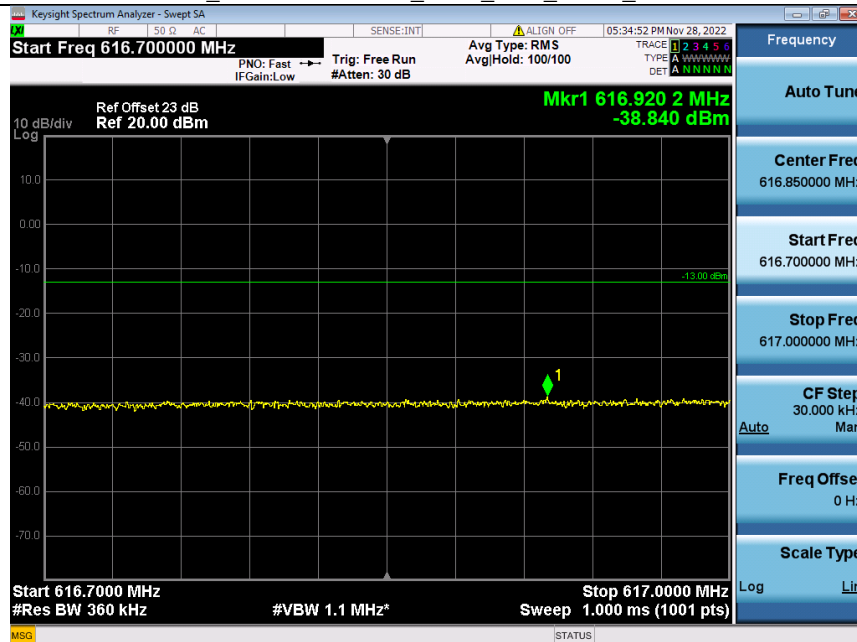
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N71\_634.5MHz AWGN\_SISO\_Ant1\_NTNV\_AGC



N71\_634.5MHz AWGN\_SISO\_Ant1\_NTNV\_AGC+3



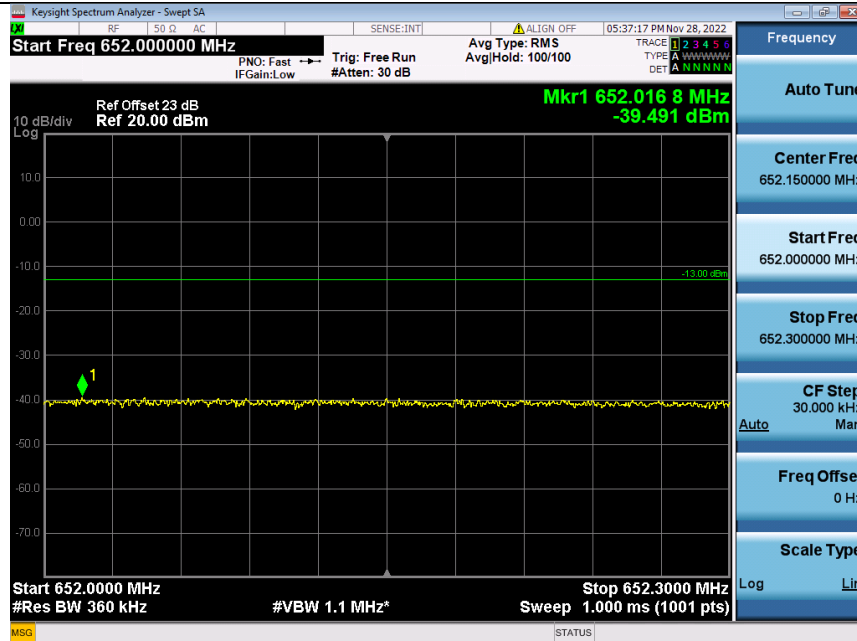
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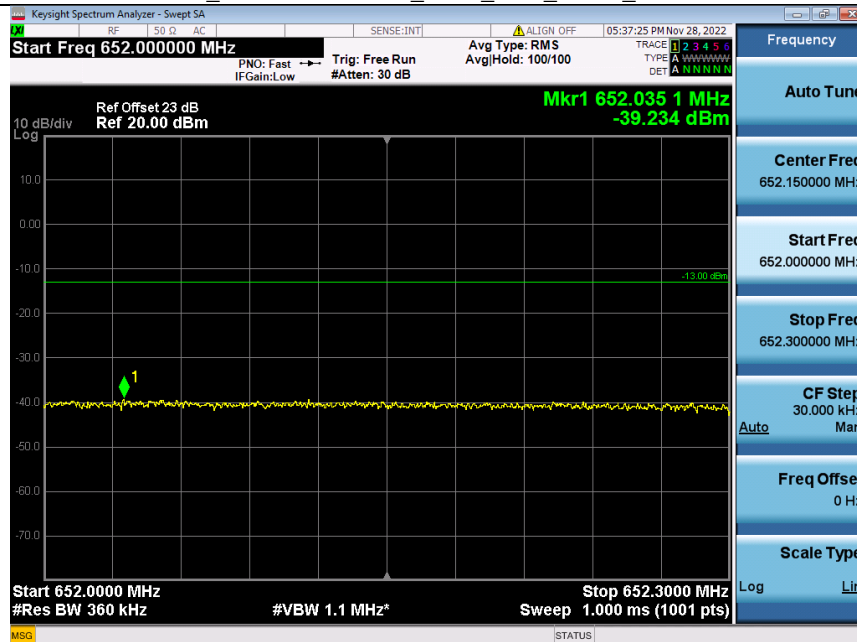
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N71\_634.5MHz AWGN\_SISO\_Ant1\_NTNV\_AGC



N71\_634.5MHz AWGN\_SISO\_Ant1\_NTNV\_AGC+3



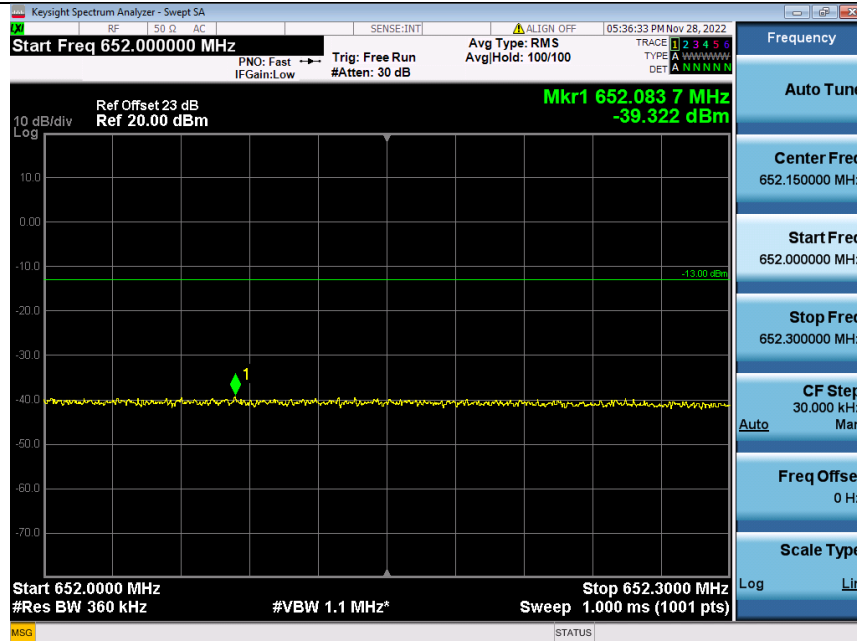
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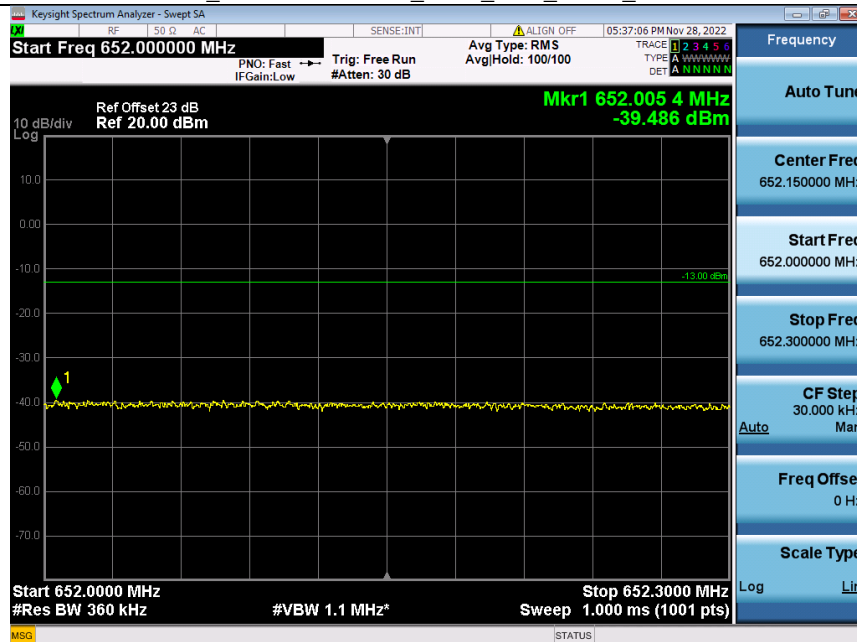
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## 6. Spurious emissions

### 6.1 Band71

#### 6.1.1 Test Result

##### For LTE Band 71

Band: 71 / NTNV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	0.2	619.5	LCH	SISO	1	Refer To Test Graph		Pass
		634.5	MCH	SISO	1	Refer To Test Graph		Pass
		649.5	HCH	SISO	1	Refer To Test Graph		Pass
GMSK	0.2	617.1	LCH	SISO	1	Refer To Test Graph		Pass
		634.5	MCH	SISO	1	Refer To Test Graph		Pass
		651.9	HCH	SISO	1	Refer To Test Graph		Pass

##### For 5G NR N71

N71 / NTNV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	0.2	634.5	MCH	SISO	1	Refer To Test Graph		Pass

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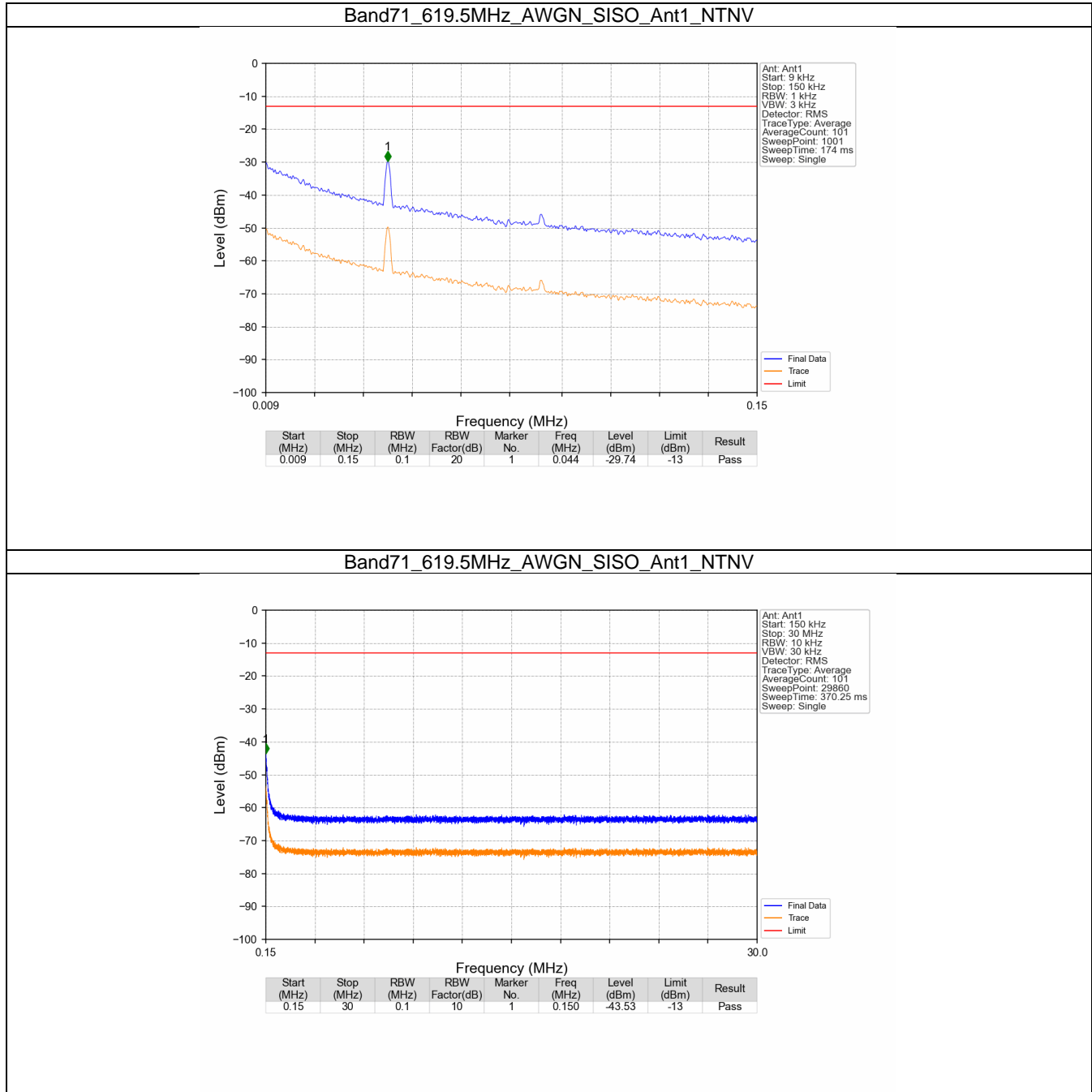
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6.1.2 Test Graph

For LTE Band 71



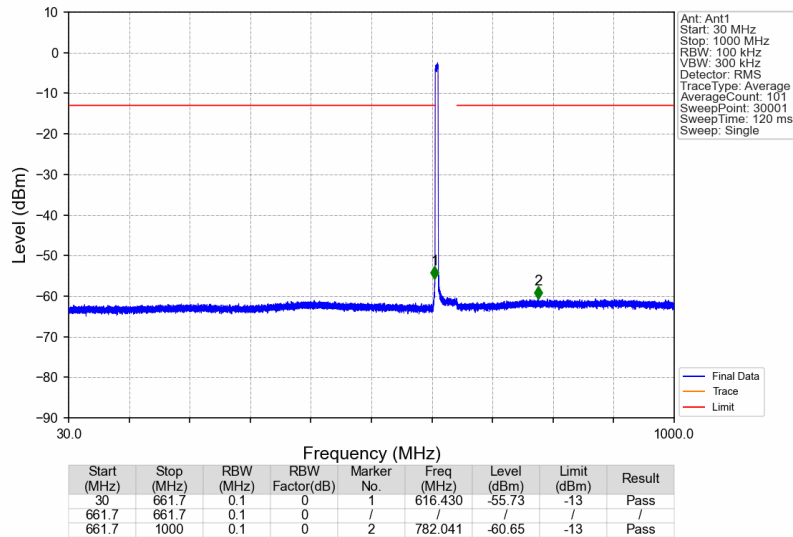
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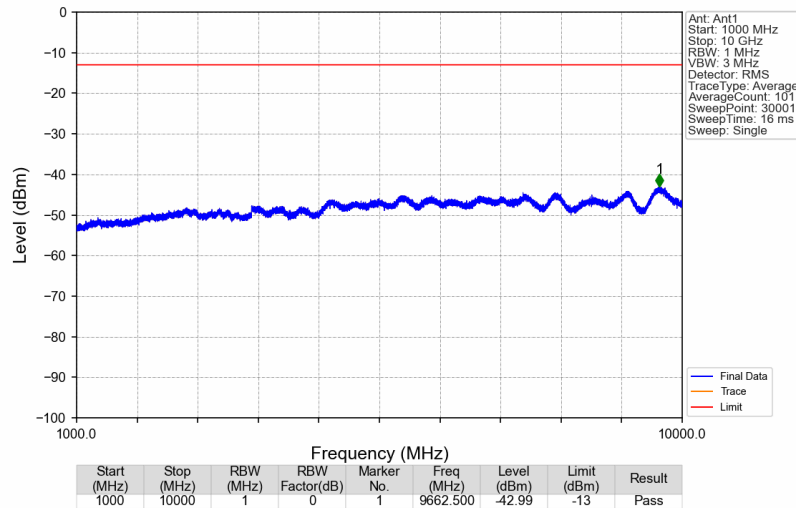
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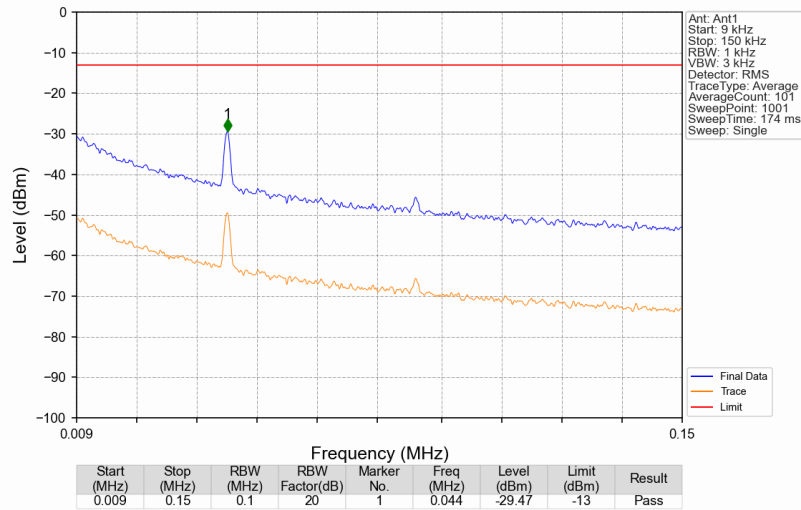
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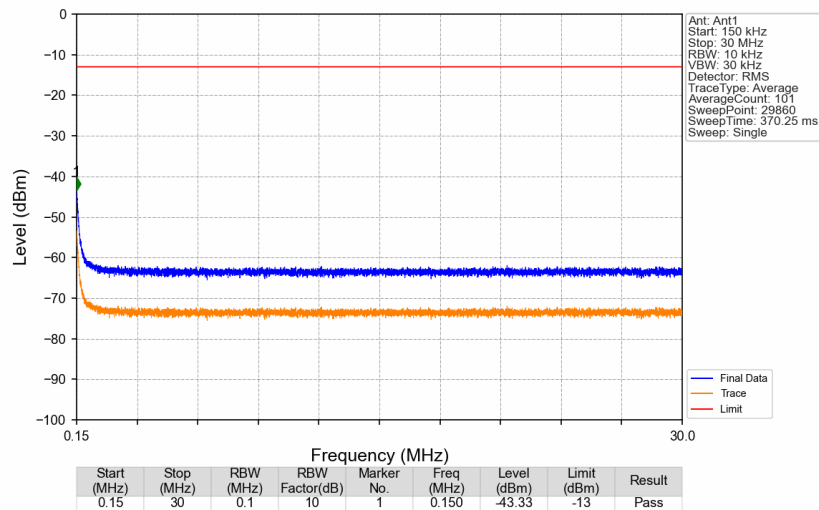


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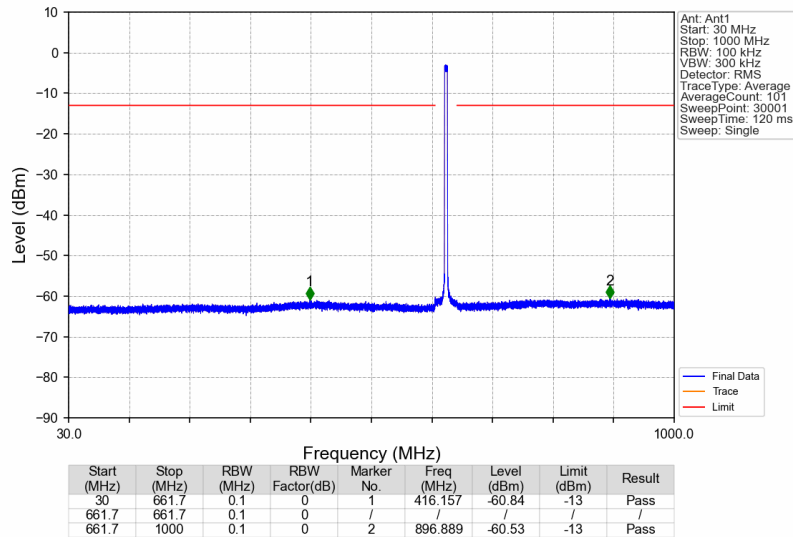
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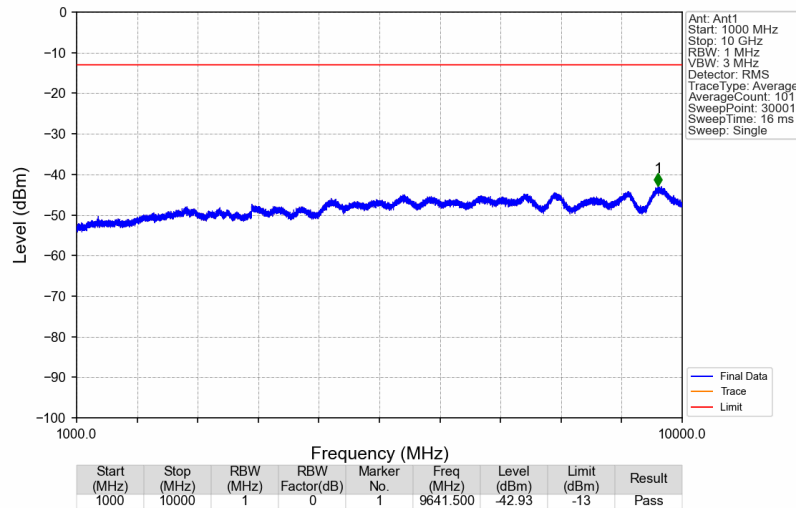
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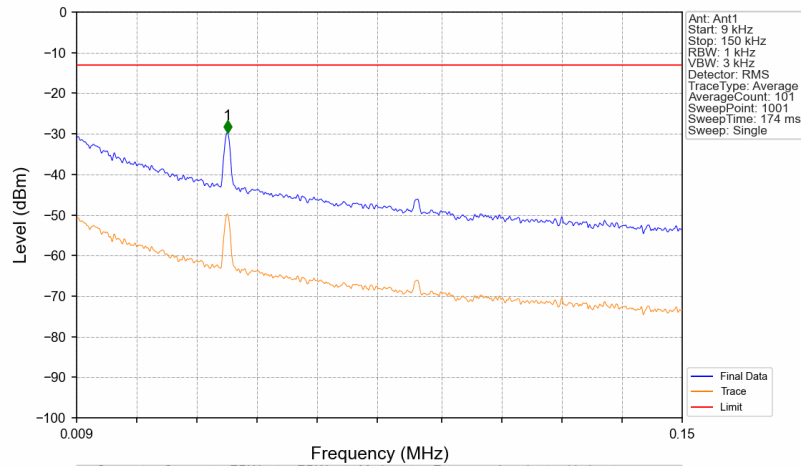
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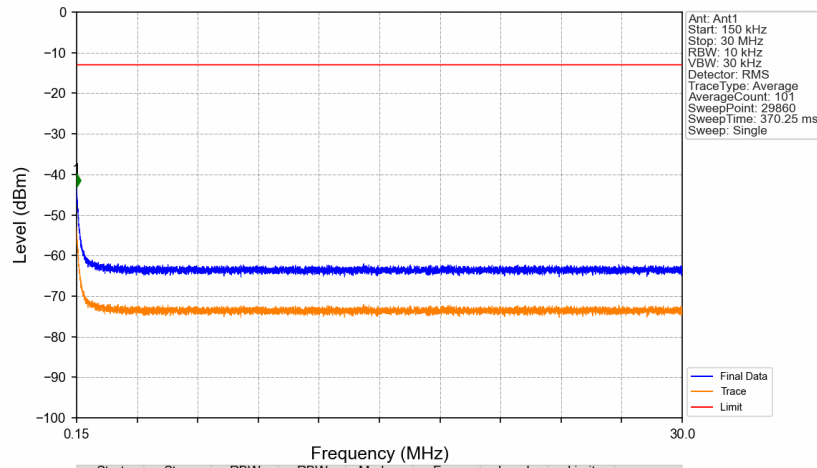


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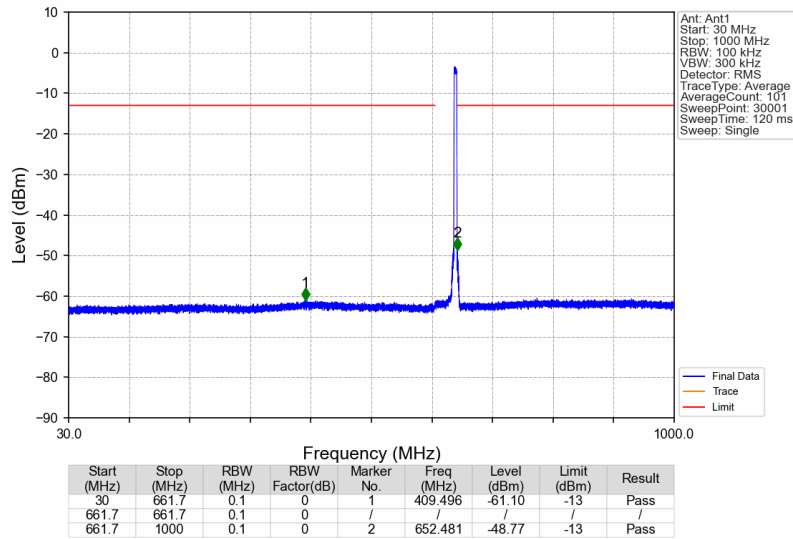
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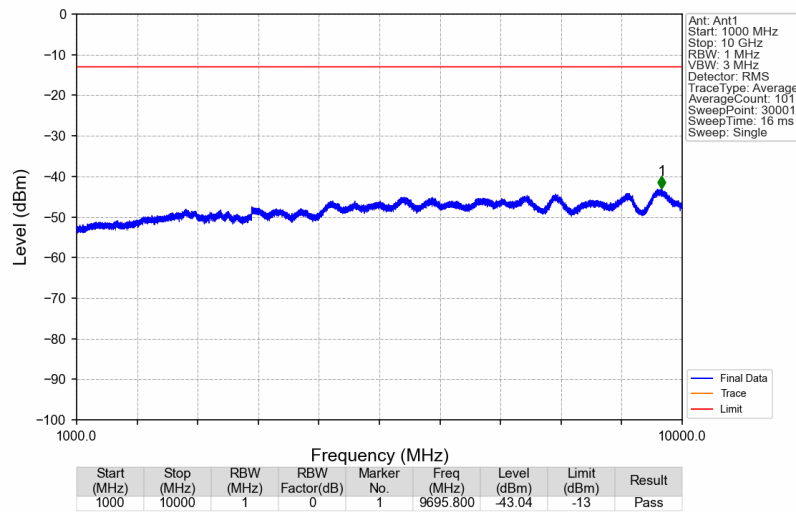
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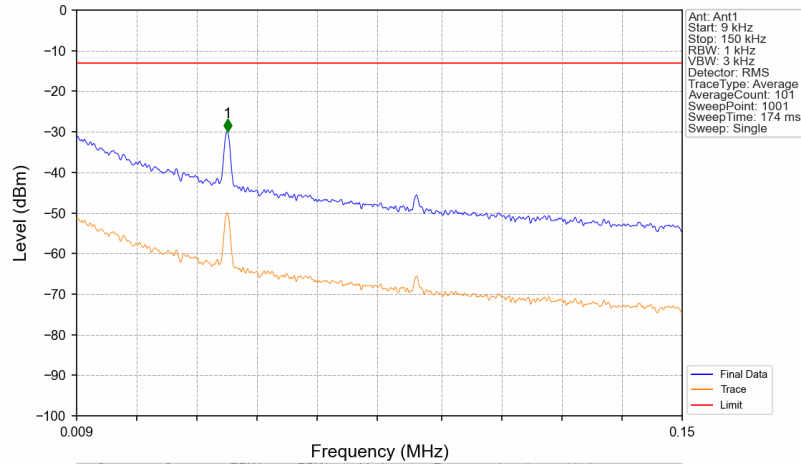
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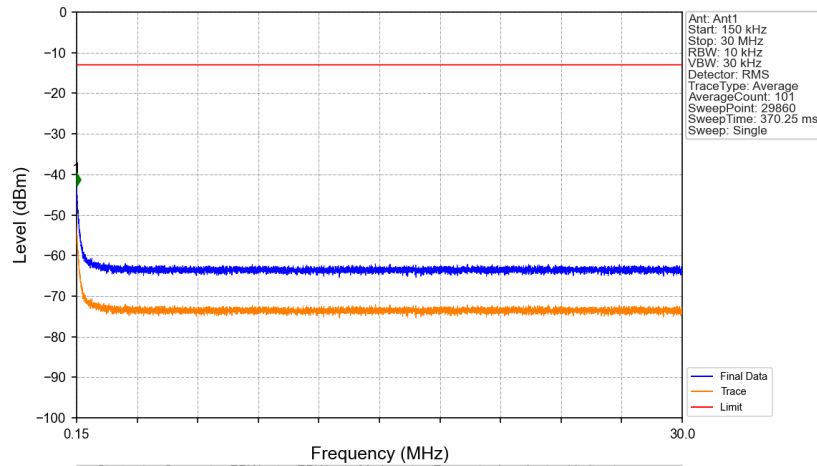
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Band71\_617.1MHz\_GMSK\_SISO\_Ant1\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	0.1	20	1	0.044	-29.91	-13	Pass

Band71\_617.1MHz\_GMSK\_SISO\_Ant1\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.15	30	0.1	10	1	0.150	-42.90	-13	Pass



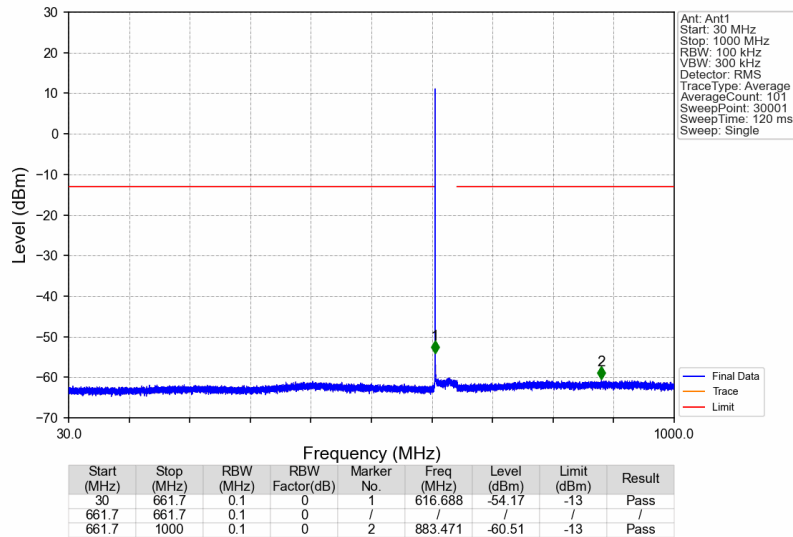
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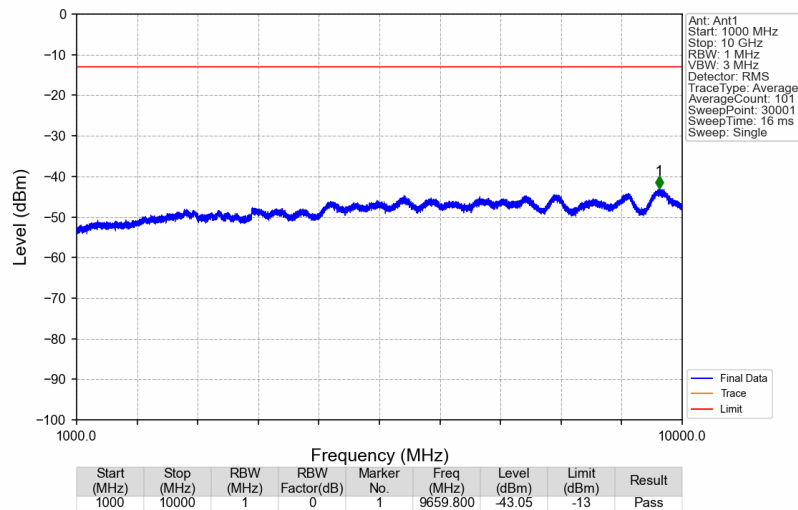
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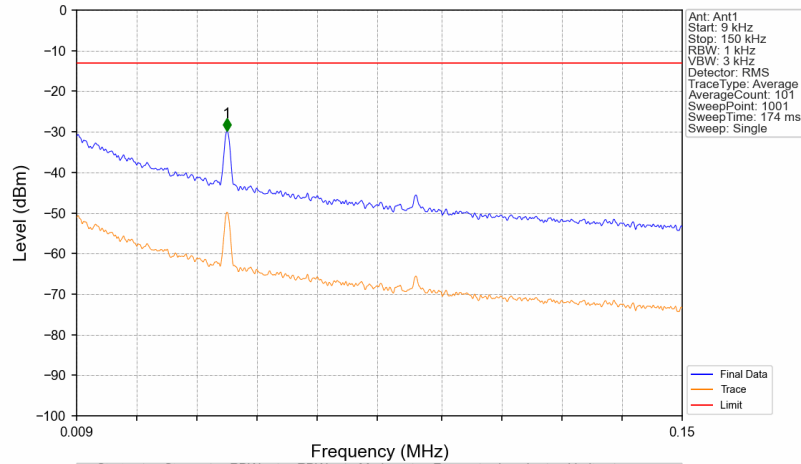
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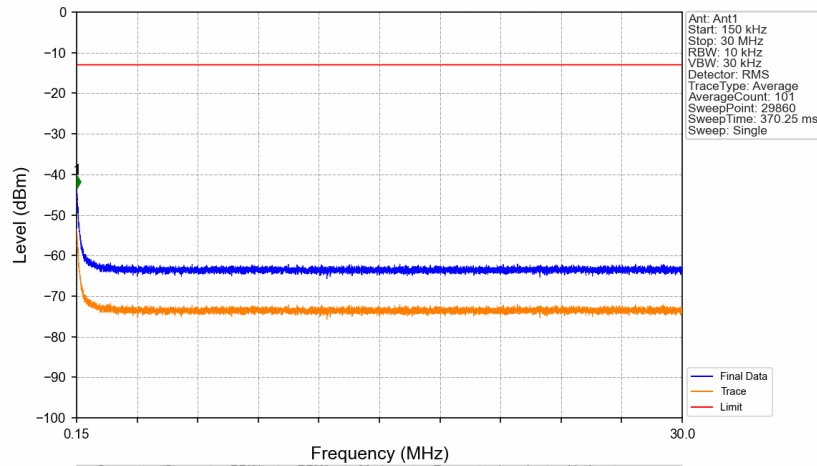


Band71\_634.5MHz\_GMSK\_SISO\_Ant1\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	0.1	20	1	0.044	-29.83	-13	Pass

Band71\_634.5MHz\_GMSK\_SISO\_Ant1\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.15	30	0.1	10	1	0.159	-43.32	-13	Pass



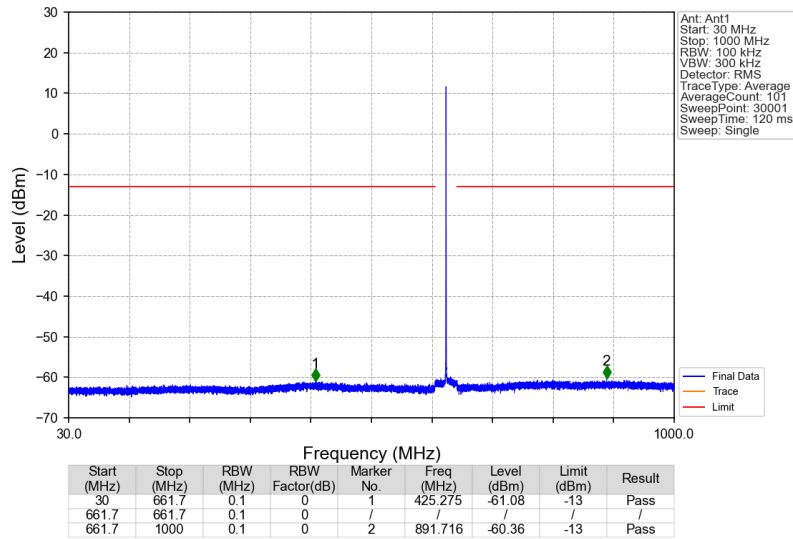
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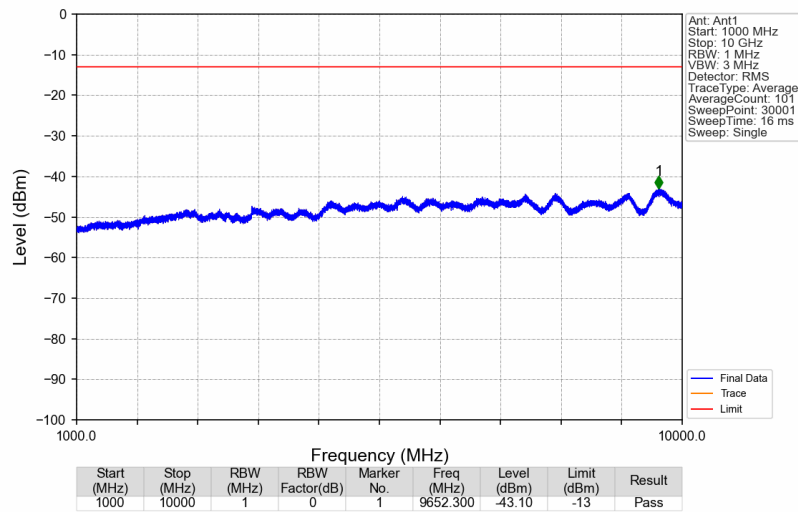
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### Band71\_634.5MHz\_GMSK\_SISO\_Ant1\_NTNV



### Band71\_634.5MHz\_GMSK\_SISO\_Ant1\_NTNV



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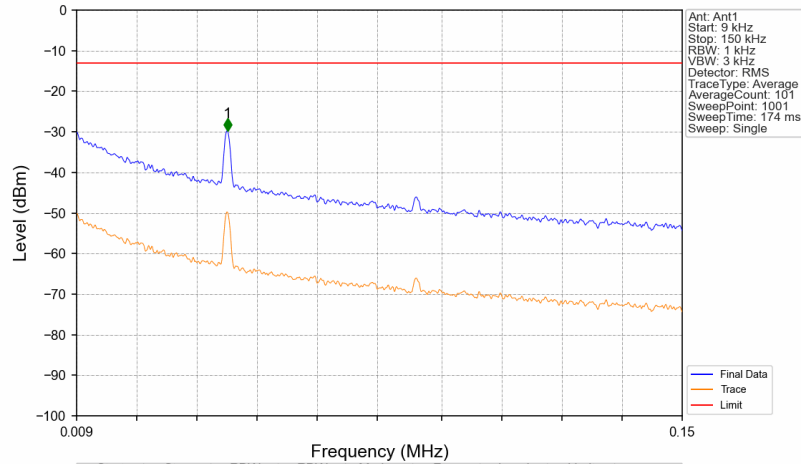
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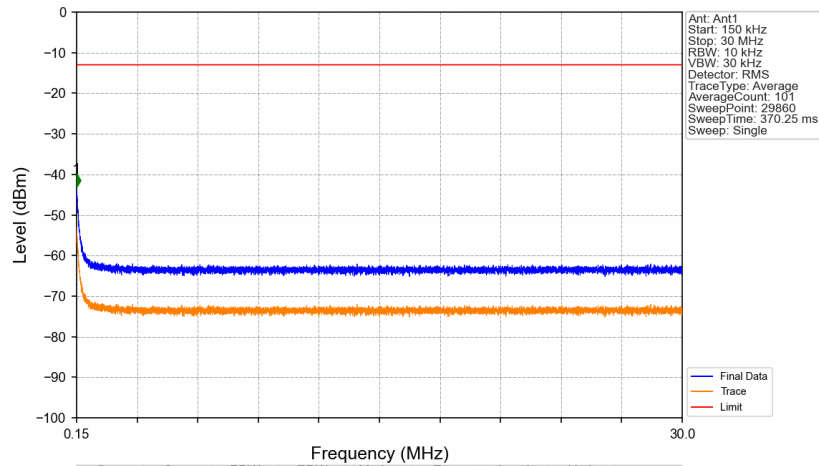


Compliance Certification Services (Kunshan) Inc.  
 EMC Laboratory

Band71\_651.9MHz\_GMSK\_SISO\_Ant1\_NTNV



Band71\_651.9MHz\_GMSK\_SISO\_Ant1\_NTNV



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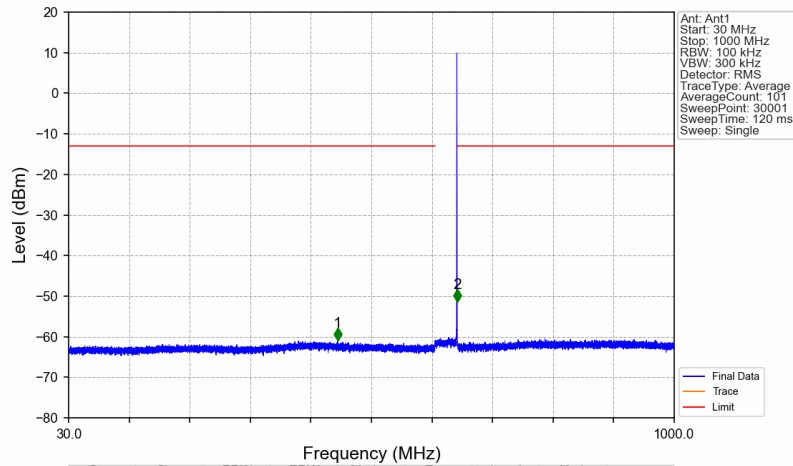
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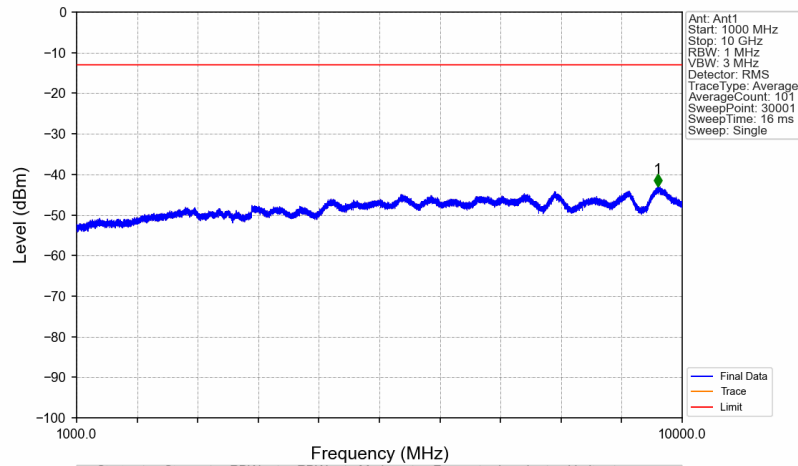
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Band71\_651.9MHz\_GMSK\_SISO\_Ant1\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	661.7	0.1	0	1	460.809	-61.01	-13	Pass
661.7	1000	0.1	0	2	652.320	-51.48	-13	Pass

Band71\_651.9MHz\_GMSK\_SISO\_Ant1\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	10000	1	0	1	9635.200	-43.01	-13	Pass



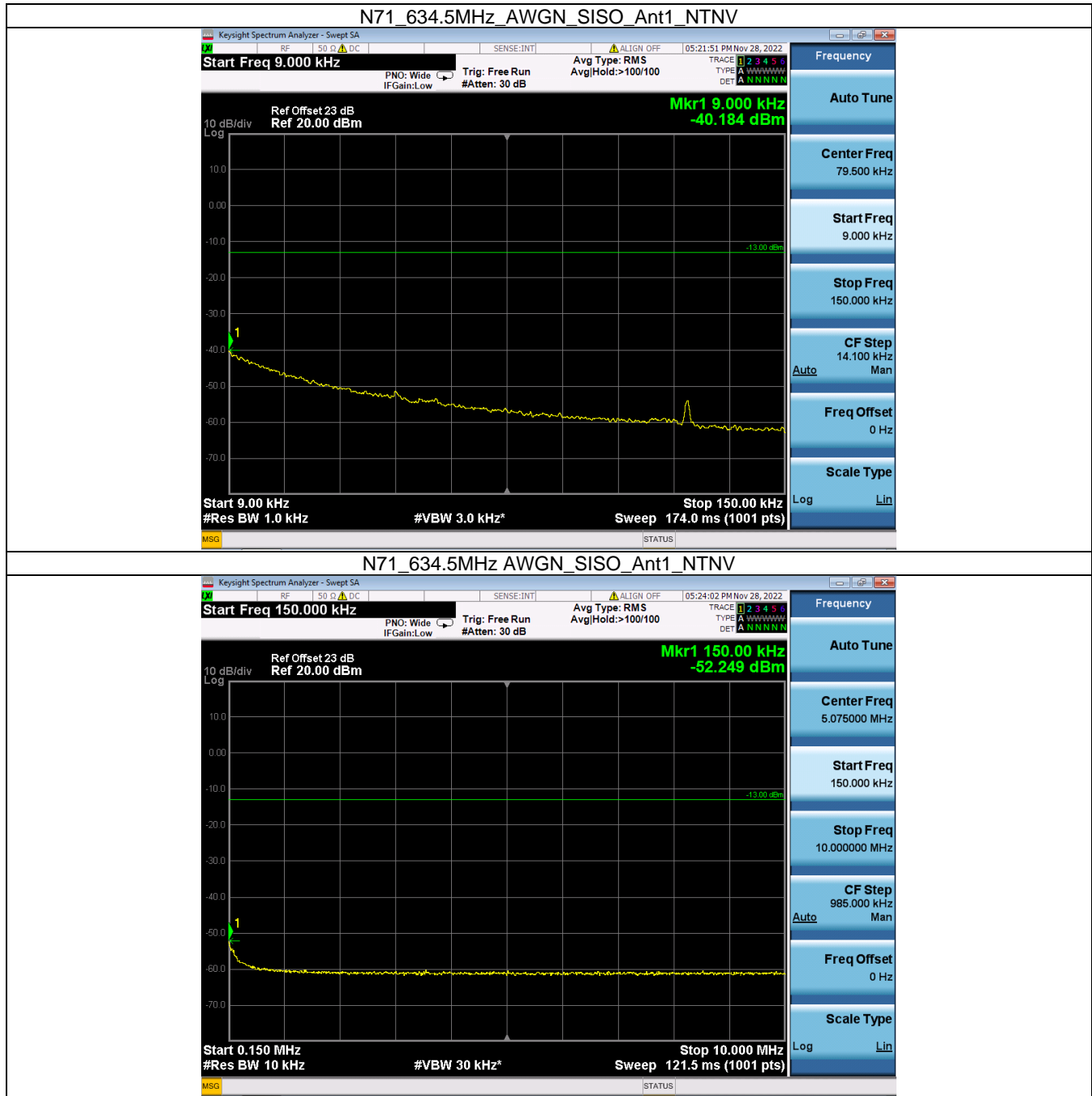
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For 5G NR N71



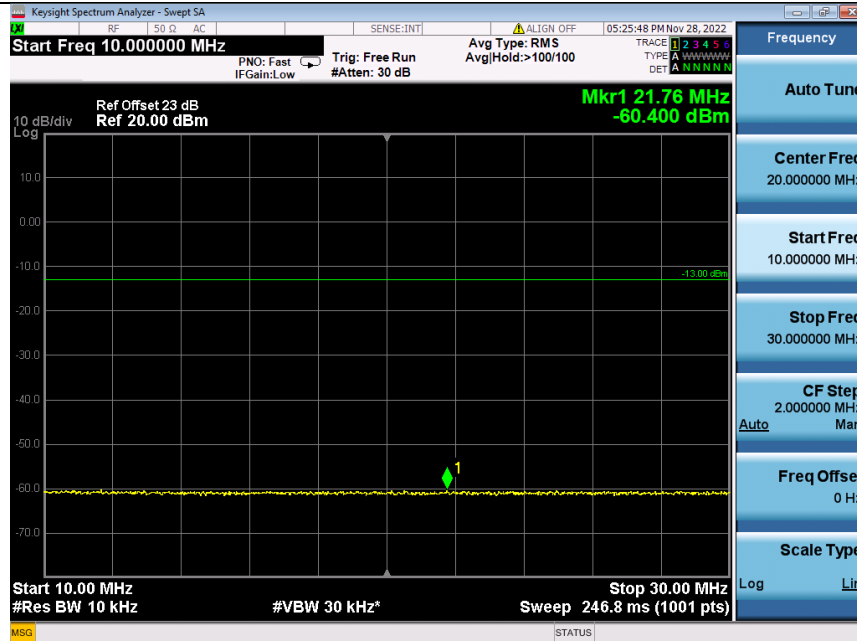
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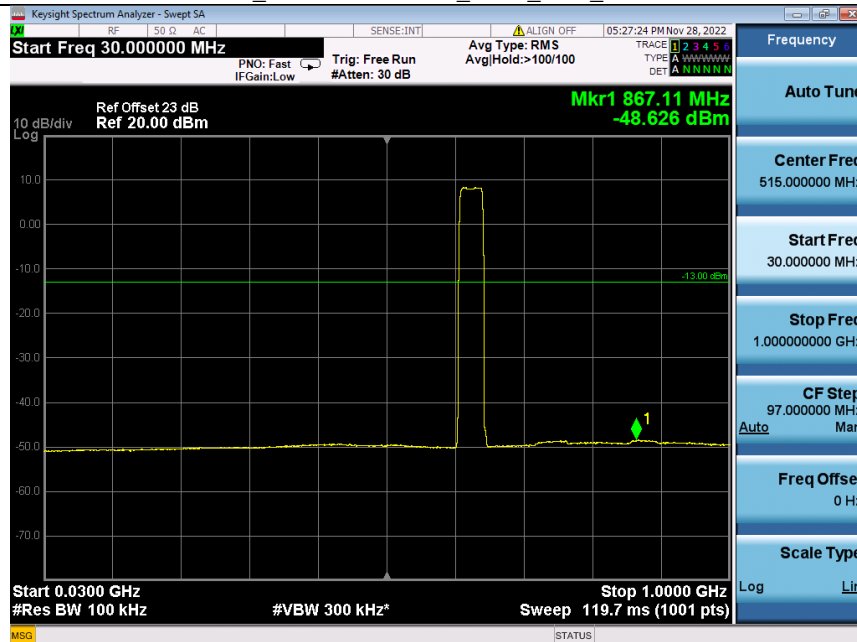
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N71\_634.5MHz AWGN\_SISO\_Ant1\_NTNV



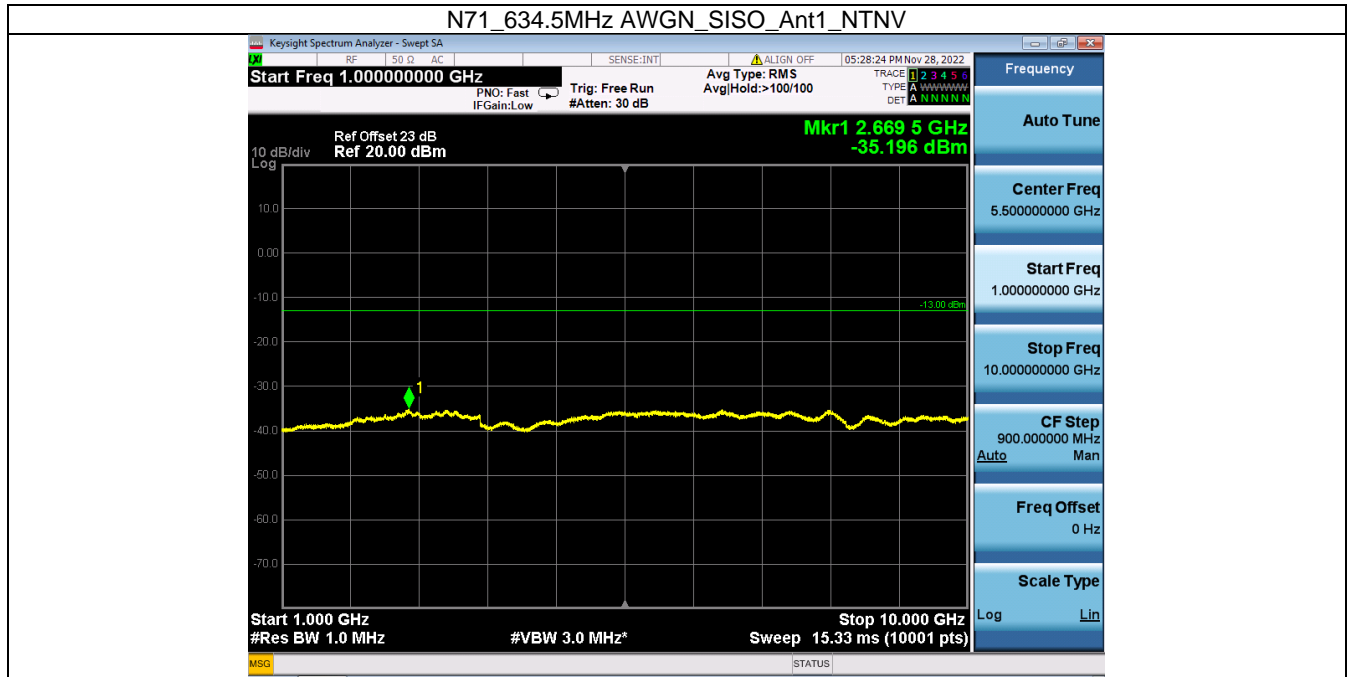
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## 7. Frequency stability measurements

### 7.1 Band71\_Ant1

#### 7.1.1 Test Result

Band: 71 / NTV								
Signal			Temp (°C)	Voltage (VAC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict	
Type	Level (dBm)	Frequency (MHz)						
CW	0.2	617.1	20	102	0	0.00	Pass	
				120	0	0.00	Pass	
				138	0	0.00	Pass	
			-40	120	0	0.00	Pass	
				-30	120	0	0.00	Pass
				-20	120	0	0.00	Pass
			-10	120	0	0.00	Pass	
				0	120	0	0.00	Pass
				10	120	0	0.00	Pass
			30	120	0	0.00	Pass	
				40	120	0	0.00	Pass
				55	120	0	0.00	Pass
		634.5	20	102	0	0.00	Pass	
				120	0	0.00	Pass	
				138	0	0.00	Pass	
			-40	120	0	0.00	Pass	
				-30	120	0	0.00	Pass
				-20	120	0	0.00	Pass
			-10	120	0	0.00	Pass	
				0	120	0	0.00	Pass
				10	120	0	0.00	Pass
			30	120	0	0.00	Pass	
				40	120	0	0.00	Pass
				55	120	0	0.00	Pass
		651.9	20	102	0	0.00	Pass	
				120	0	0.00	Pass	
				138	0	0.00	Pass	
			-40	120	0	0.00	Pass	
				-30	120	0	0.00	Pass
				-20	120	0	0.00	Pass
-10	120		0	0.00	Pass			
	0		120	0	0.00	Pass		
	10		120	0	0.00	Pass		
30	120		0	0.00	Pass			
	40		120	0	0.00	Pass		
	55		120	0	0.00	Pass		



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## 8. Radiated Spurious Emissions

### 8.1 Band71\_Ant1

#### 8.1.1 Test Result

For LTE Band 71

AWGN_Low channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
376.2	Horizontal	-69.95	-13	-56.95	pass
591.4	Horizontal	-61.41	-13	-48.41	pass
965.8	Horizontal	-61.04	-13	-48.04	pass
1374.5	Horizontal	-60.91	-13	-47.91	pass
2743.5	Horizontal	-52.94	-13	-39.94	pass
6039.3	Horizontal	-46.65	-13	-33.65	pass
390.2	Vertical	-68.61	-13	-55.61	pass
606.9	Vertical	-62.48	-13	-49.48	pass
963.8	Vertical	-58.36	-13	-45.36	pass
1327.6	Vertical	-57.96	-13	-44.96	pass
2734.2	Vertical	-52.91	-13	-39.91	pass
6042.1	Vertical	-50.45	-13	-37.45	pass

AWGN_Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
373.8	Horizontal	-68.35	-13	-55.35	pass
582.3	Horizontal	-61.46	-13	-48.46	pass
938.8	Horizontal	-57.43	-13	-44.43	pass
1370.0	Horizontal	-57.98	-13	-44.98	pass
2772.9	Horizontal	-54.85	-13	-41.85	pass
6038.1	Horizontal	-50.96	-13	-37.96	pass
391.2	Vertical	-68.74	-13	-55.74	pass
592.5	Vertical	-61.84	-13	-48.84	pass
952.5	Vertical	-58.71	-13	-45.71	pass
1346.1	Vertical	-57.84	-13	-44.84	pass
2728.2	Vertical	-54.43	-13	-41.43	pass
6042.7	Vertical	-50.34	-13	-37.34	pass

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AWGN_High channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
403.5	Horizontal	-68.00	-13	-55.00	pass
597.6	Horizontal	-61.04	-13	-48.04	pass
957.2	Horizontal	-59.51	-13	-46.51	pass
1350.1	Horizontal	-58.53	-13	-45.53	pass
2755.9	Horizontal	-55.42	-13	-42.42	pass
6036.2	Horizontal	-46.38	-13	-33.38	pass
371.3	Vertical	-67.54	-13	-54.54	pass
592.6	Vertical	-63.38	-13	-50.38	pass
964.0	Vertical	-56.36	-13	-43.36	pass
1371.9	Vertical	-59.64	-13	-46.64	pass
2767.0	Vertical	-52.46	-13	-39.46	pass
6045.6	Vertical	-47.78	-13	-34.78	pass

GMSK_Low channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
398.4	Horizontal	-68.94	-13	-55.94	pass
608.1	Horizontal	-62.98	-13	-49.98	pass
969.7	Horizontal	-57.98	-13	-44.98	pass
1327.1	Horizontal	-56.68	-13	-43.68	pass
2765.9	Horizontal	-52.20	-13	-39.20	pass
6073.1	Horizontal	-47.25	-13	-34.25	pass
404.5	Vertical	-66.49	-13	-53.49	pass
601.3	Vertical	-61.75	-13	-48.75	pass
966.0	Vertical	-59.15	-13	-46.15	pass
1347.8	Vertical	-56.54	-13	-43.54	pass
2766.2	Vertical	-51.04	-13	-38.04	pass
6047.4	Vertical	-48.37	-13	-35.37	pass



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GMSK_Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
390.8	Horizontal	-71.86	-13	-58.86	pass
579.7	Horizontal	-66.83	-13	-53.83	pass
945.2	Horizontal	-57.49	-13	-44.49	pass
1345.0	Horizontal	-59.29	-13	-46.29	pass
2769.8	Horizontal	-52.45	-13	-39.45	pass
6053.1	Horizontal	-47.42	-13	-34.42	pass
398.8	Vertical	-66.05	-13	-53.05	pass
595.1	Vertical	-66.91	-13	-53.91	pass
954.6	Vertical	-61.16	-13	-48.16	pass
1342.0	Vertical	-59.94	-13	-46.94	pass
2762.0	Vertical	-51.99	-13	-38.99	pass
6029.5	Vertical	-50.34	-13	-37.34	pass

GMSK_High channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
387.6	Horizontal	-66.11	-13	-53.11	pass
599.3	Horizontal	-65.11	-13	-52.11	pass
956.1	Horizontal	-59.87	-13	-46.87	pass
1351.8	Horizontal	-61.43	-13	-48.43	pass
2743.7	Horizontal	-52.18	-13	-39.18	pass
6065.0	Horizontal	-47.01	-13	-34.01	pass
376.5	Vertical	-69.78	-13	-56.78	pass
562.7	Vertical	-64.88	-13	-51.88	pass
927.1	Vertical	-61.53	-13	-48.53	pass
1328.6	Vertical	-61.74	-13	-48.74	pass
2753.8	Vertical	-51.71	-13	-38.71	pass
6060.5	Vertical	-49.79	-13	-36.79	pass



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For 5GNR N71

AWGN Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization	dBm	dB	
402.1	Horizontal	-66.90	-13	-53.90	pass
599.1	Horizontal	-63.13	-13	-50.13	pass
946.3	Horizontal	-61.90	-13	-48.90	pass
1346.2	Horizontal	-58.80	-13	-45.80	pass
2755.8	Horizontal	-55.03	-13	-42.03	pass
6032.2	Horizontal	-47.85	-13	-34.85	pass
390.2	Vertical	-67.72	-13	-54.72	pass
583.7	Vertical	-61.36	-13	-48.36	pass
965.5	Vertical	-57.47	-13	-44.47	pass
1364.3	Vertical	-58.52	-13	-45.52	pass
2738.8	Vertical	-54.19	-13	-41.19	pass
6033.7	Vertical	-50.74	-13	-37.74	pass



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