

Appendix for KSCR2211002212AT-LTE-Band30+5GNR-N30

1. Out of band rejection

1.1 Band30

1.1.1 Test Result

Band: 30 / NTNV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	2330 - 2380	SISO	1	2356.250	2349.500	2360.600	Pass

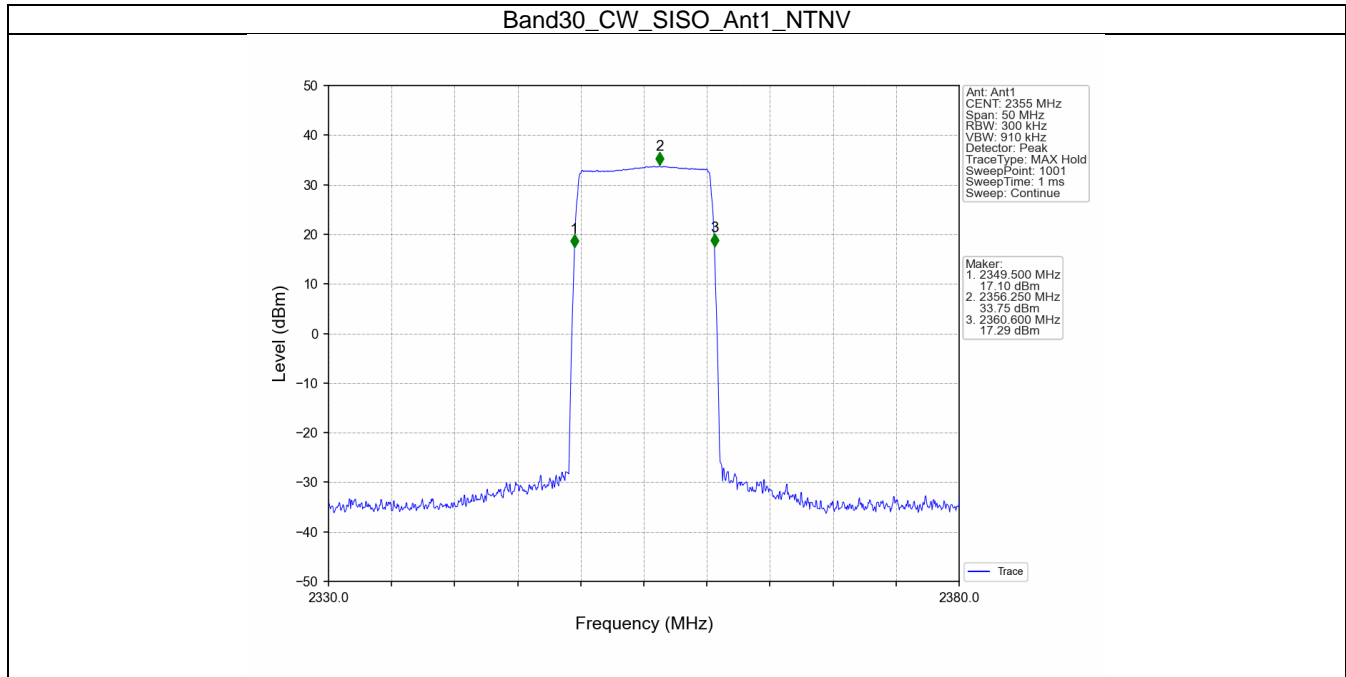


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1.1.2 Test Graph



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2. AGC threshold

2.1 Band30

2.1.1 Test Result

Band: 30 / NTNV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
AWGN	2356.25	SISO	1	-0.30	Pass
GMSK	2356.25	SISO	1	-0.30	Pass



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3. Input-versus-output signal comparison

3.1 Band30_OBW

3.1.1 Test Result

For LTE Band 30

Band: 30 / NTV							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	-0.3	2356.25	SISO	1	4.534	4.540	Pass
	2.7	2356.25	SISO	1	4.550	4.542	Pass
GMSK	-0.3	2356.25	SISO	1	0.246	0.243	Pass
	2.7	2356.25	SISO	1	0.245	0.244	Pass

For 5GNR N30

N30 / NTV							
Type	Signal		TX Type	ANT	99% OBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	-0.3	2355	SISO	1	9.4228	9.4083	Pass
	2.7	2355	SISO	1	9.3883	9.4013	Pass

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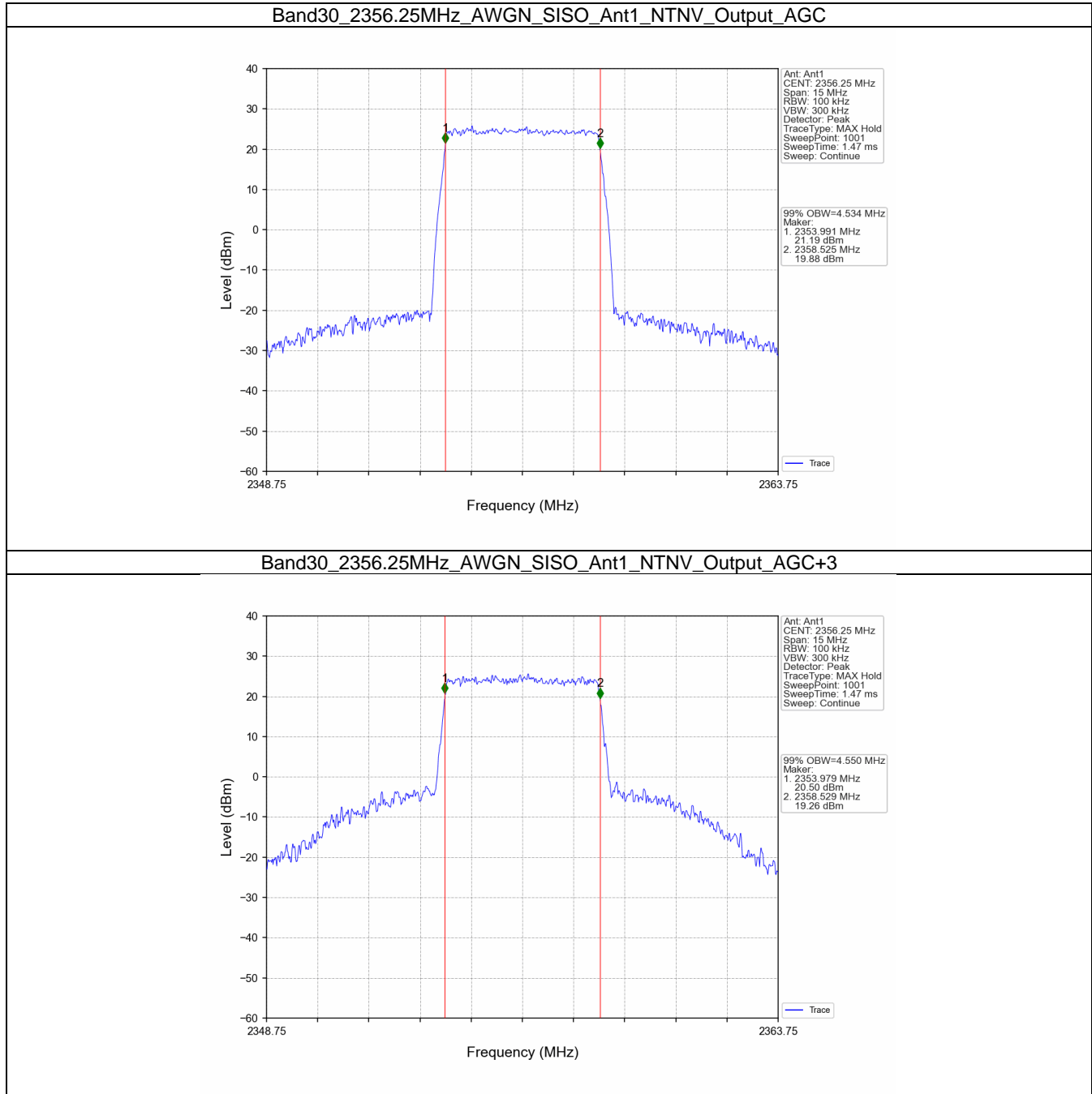
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3.1.2 Test Graph

For LTE Band 30

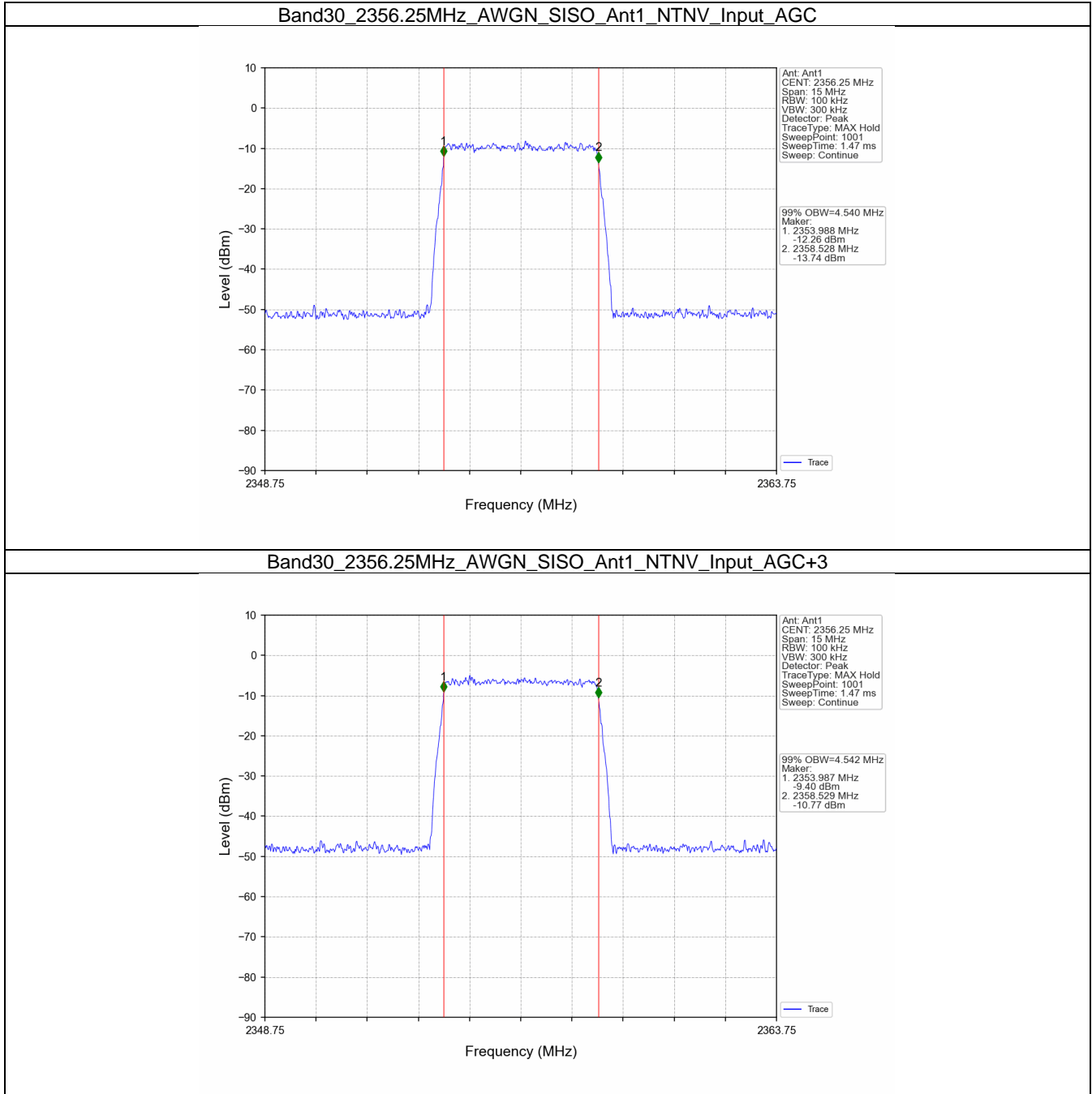


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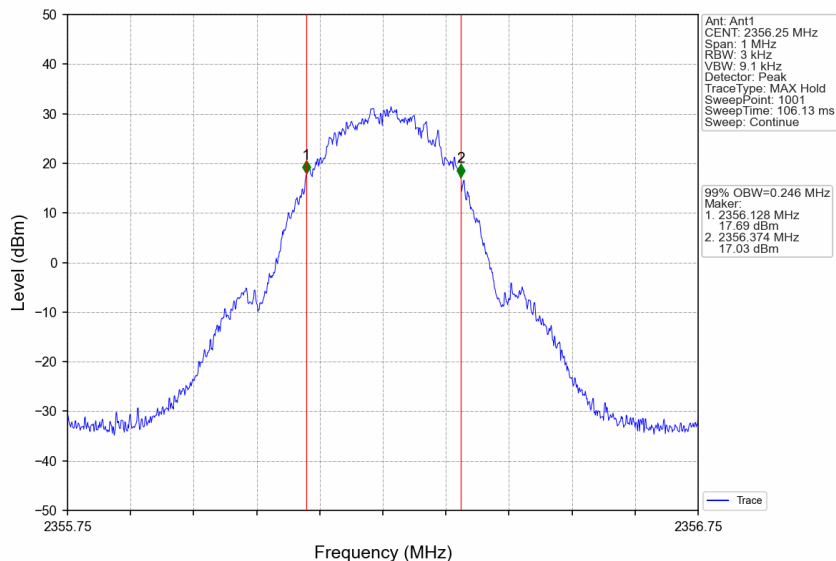
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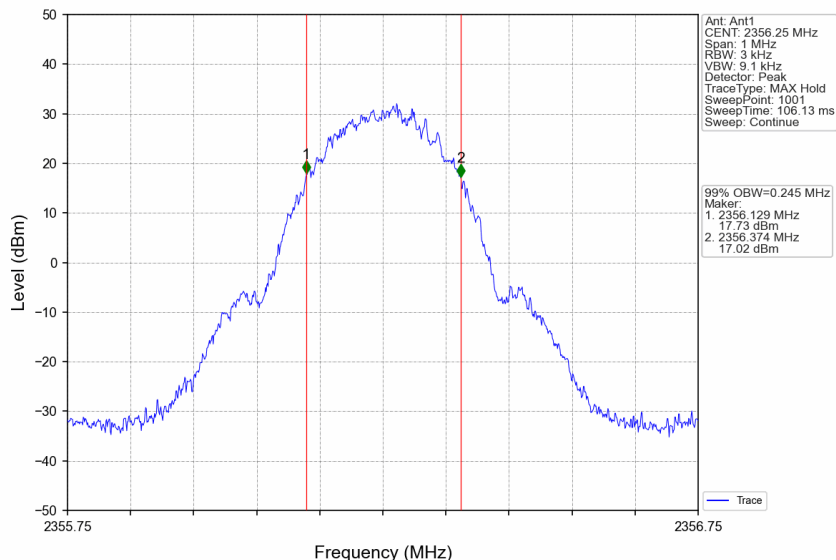
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Band30_2356.25MHz_GMSK_SISO_Ant1_NTNV_Output_AGC



Band30_2356.25MHz_GMSK_SISO_Ant1_NTNV_Output_AGC+3

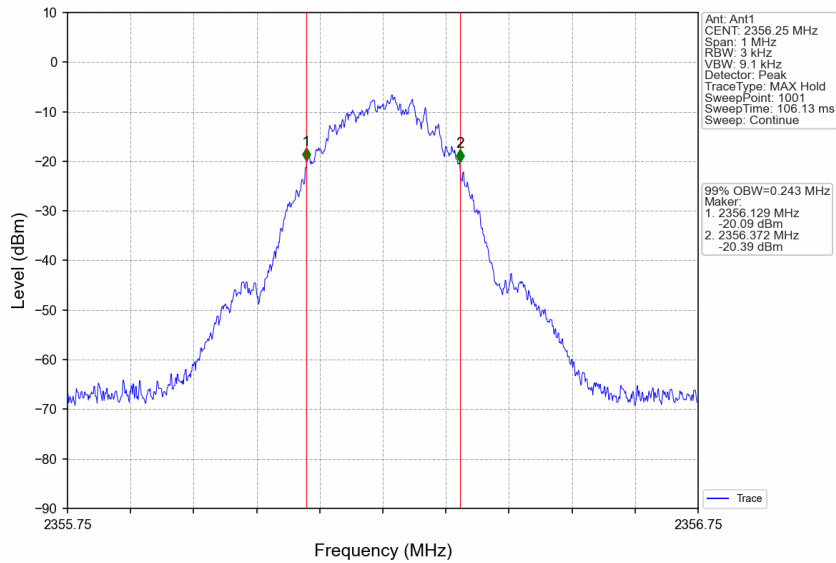


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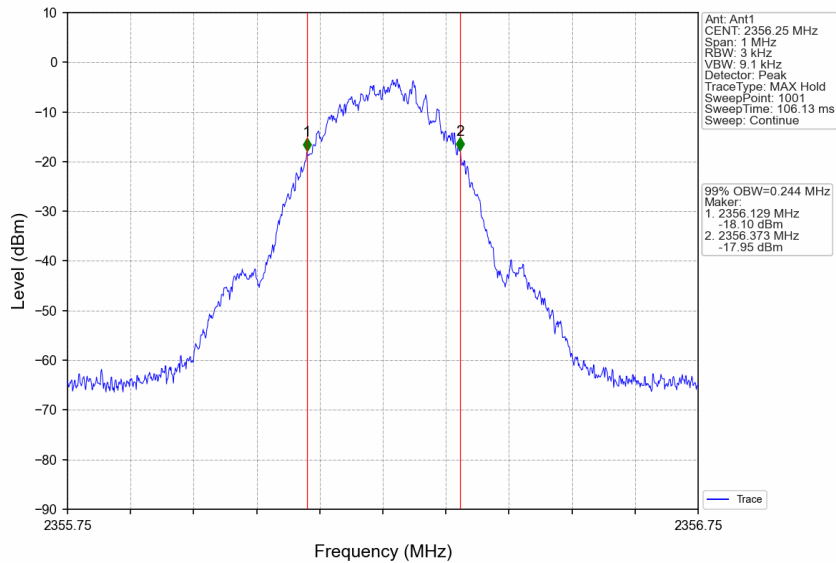
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Band30_2356.25MHz_GMSK_SISO_Ant1_NTNV_Input_AGC



Band30_2356.25MHz_GMSK_SISO_Ant1_NTNV_Input_AGC+3



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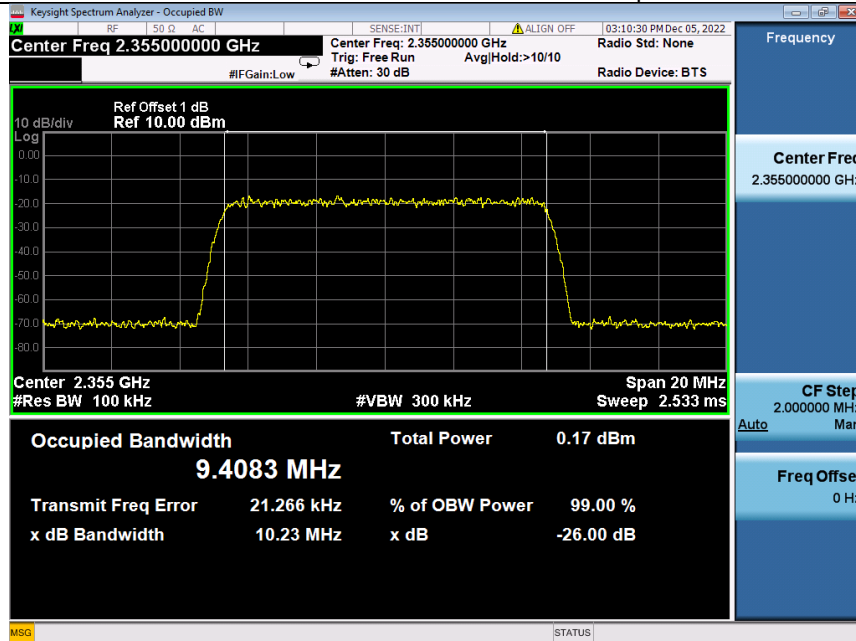
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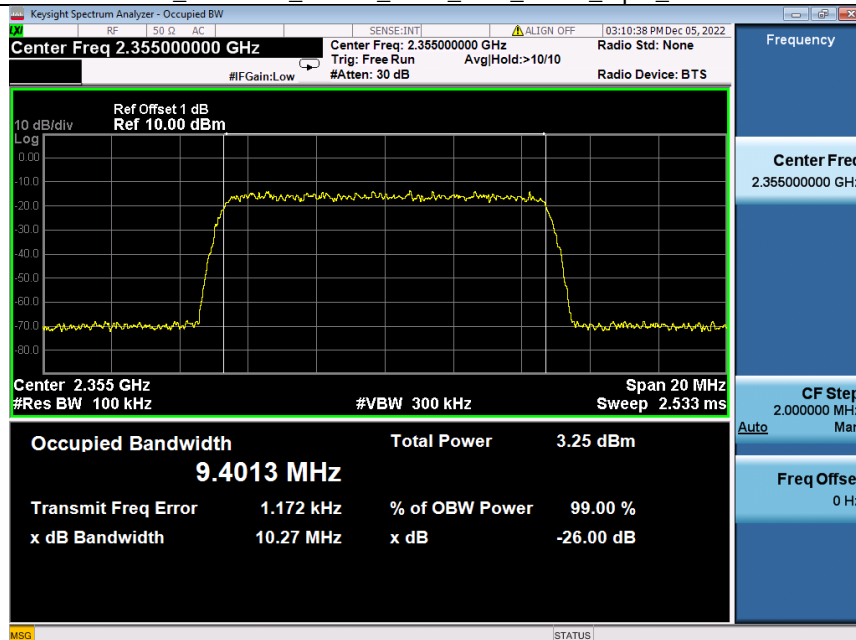
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N30_2355MHz_AWGN_SISO_Ant1_NTNV_Input_AGC+3



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3.2 Band30_EBW

3.2.1 Test Result

For LTE Band 30

Band: 30 / NTNV							
Type	Signal		TX Type	ANT	26dB EBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	-0.3	2356.25	SISO	1	5.061	5.065	Pass
	2.7	2356.25	SISO	1	5.075	5.068	Pass
GMSK	-0.3	2356.25	SISO	1	0.314	0.313	Pass
	2.7	2356.25	SISO	1	0.315	0.315	Pass

For 5G NR N30

N30 / NTNV							
Type	Signal		TX Type	ANT	26dB EBW (MHz)		Verdict
	Level (dBm)	Frequency (MHz)			Output	Input	
AWGN	-0.3	2355	SISO	1	10.21	10.23	Pass
	2.7	2355	SISO	1	10.25	10.27	Pass



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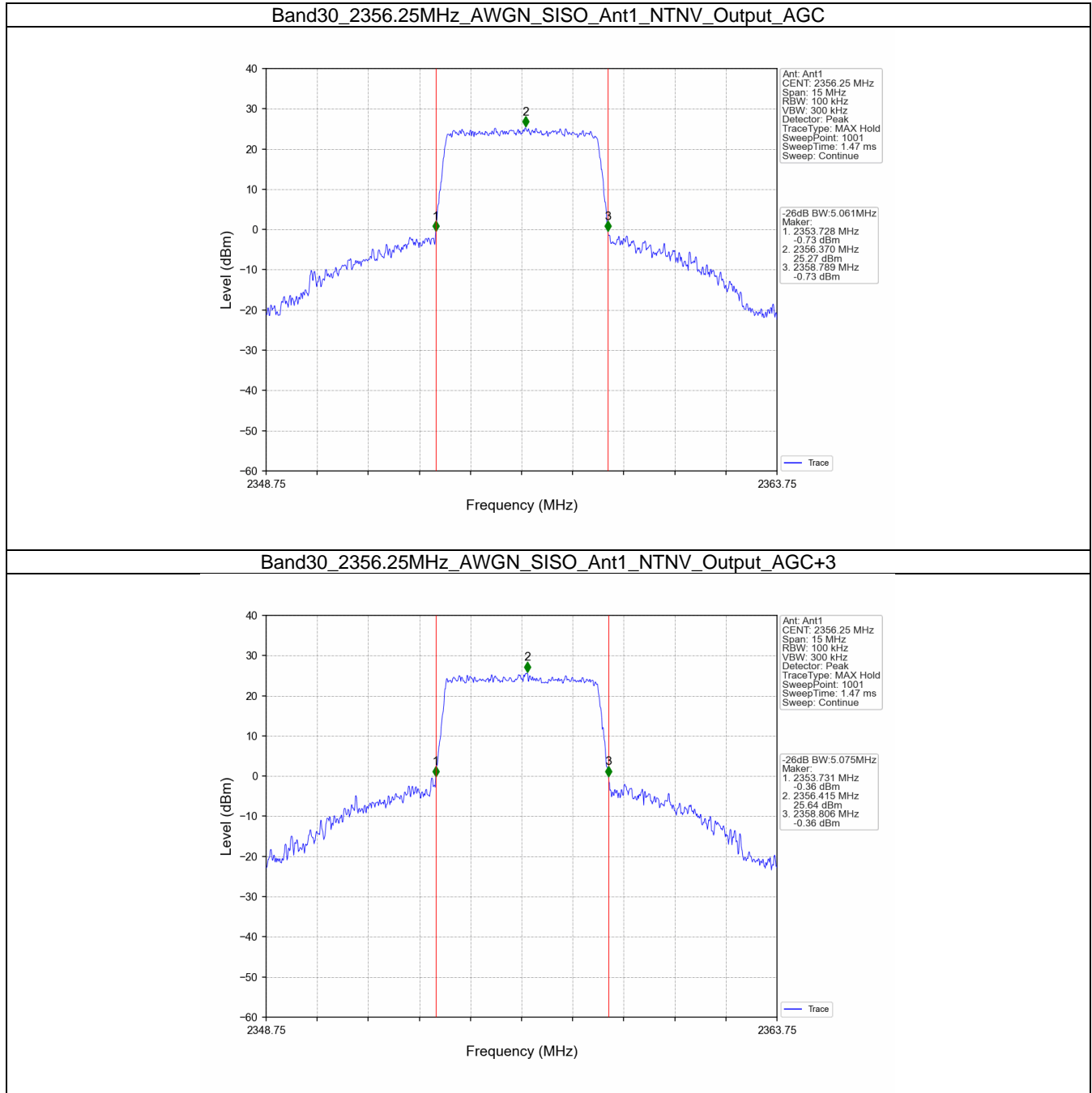
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3.2.2 Test Graph

For LTE Band 30



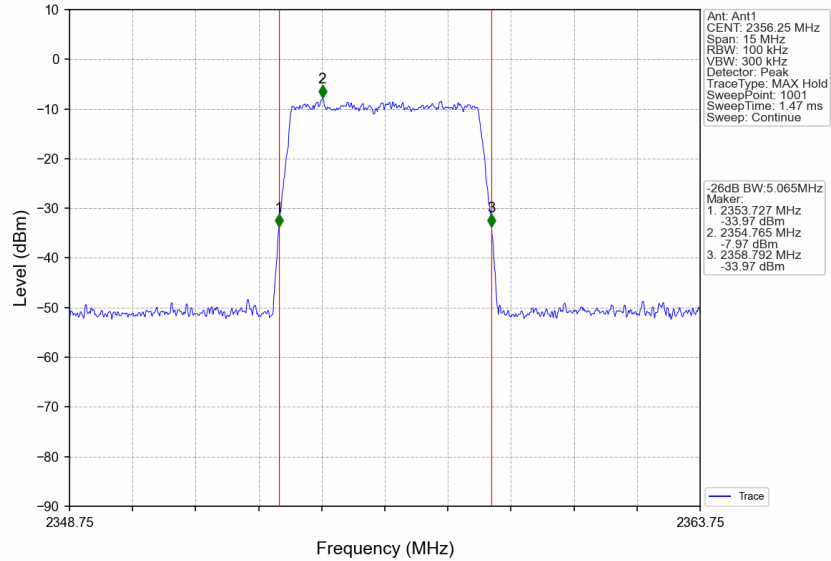
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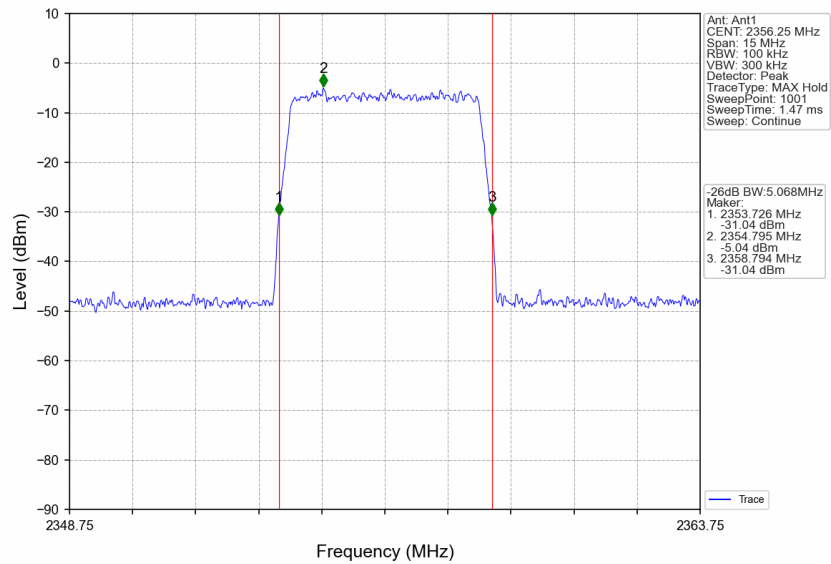
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Band30_2356.25MHz_AWGN_SISO_Ant1_NTNV_Input_AGC



Band30_2356.25MHz_AWGN_SISO_Ant1_NTNV_Input_AGC+3



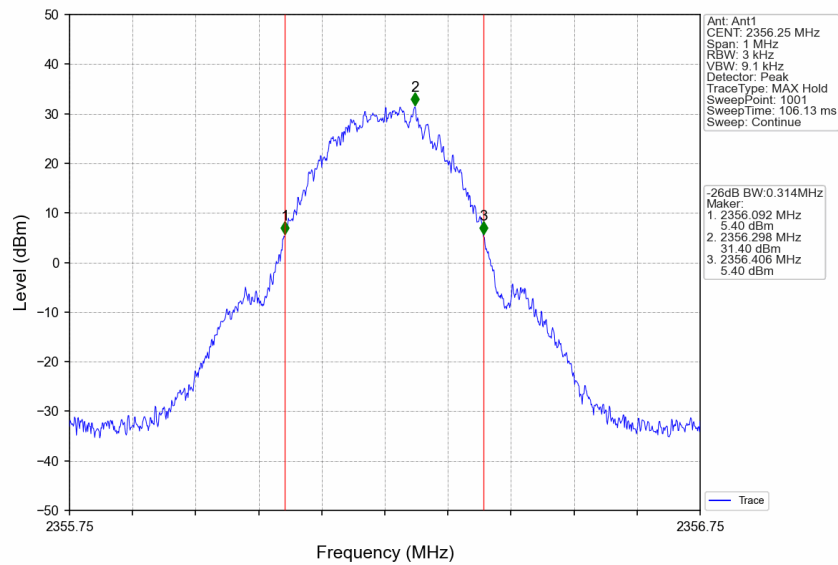
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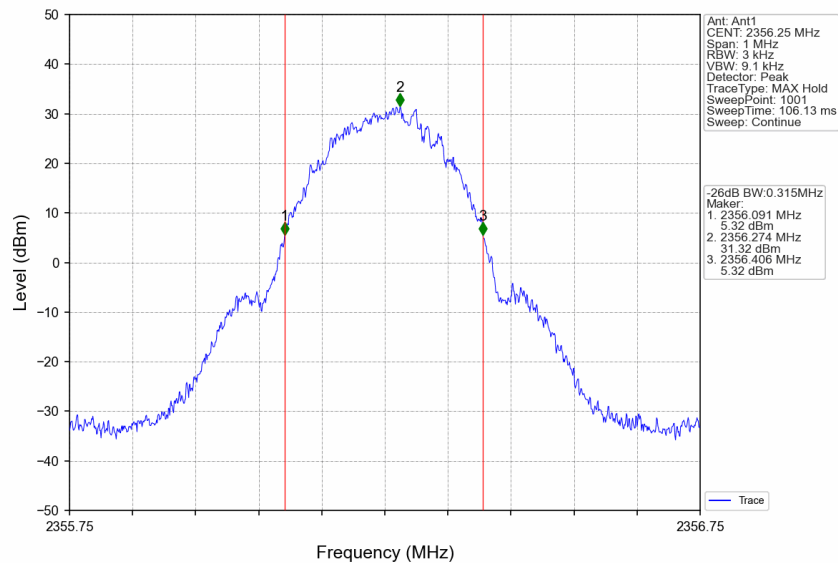
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Band30_2356.25MHz_GMSK_SISO_Ant1_NTNV_Output_AGC



Band30_2356.25MHz_GMSK_SISO_Ant1_NTNV_Output_AGC+3



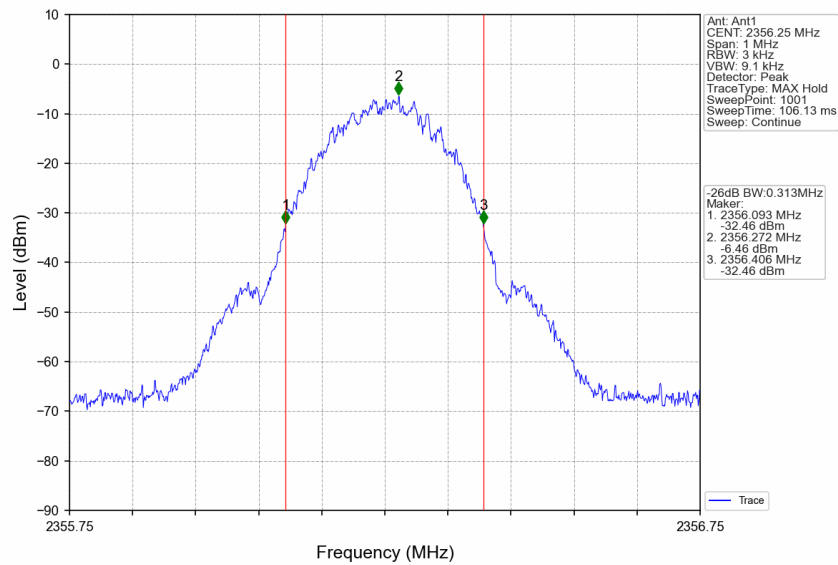
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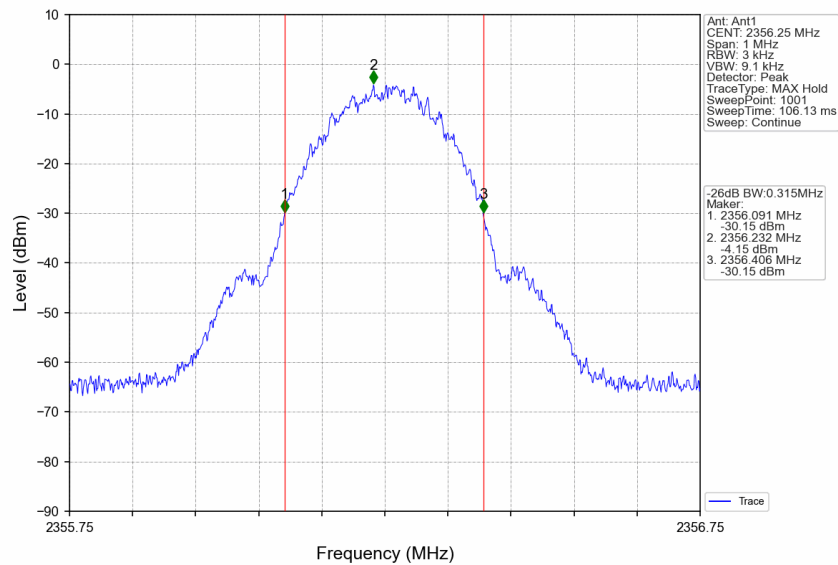
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Band30_2356.25MHz_GMSK_SISO_Ant1_NTNV_Input_AGC



Band30_2356.25MHz_GMSK_SISO_Ant1_NTNV_Input_AGC+3



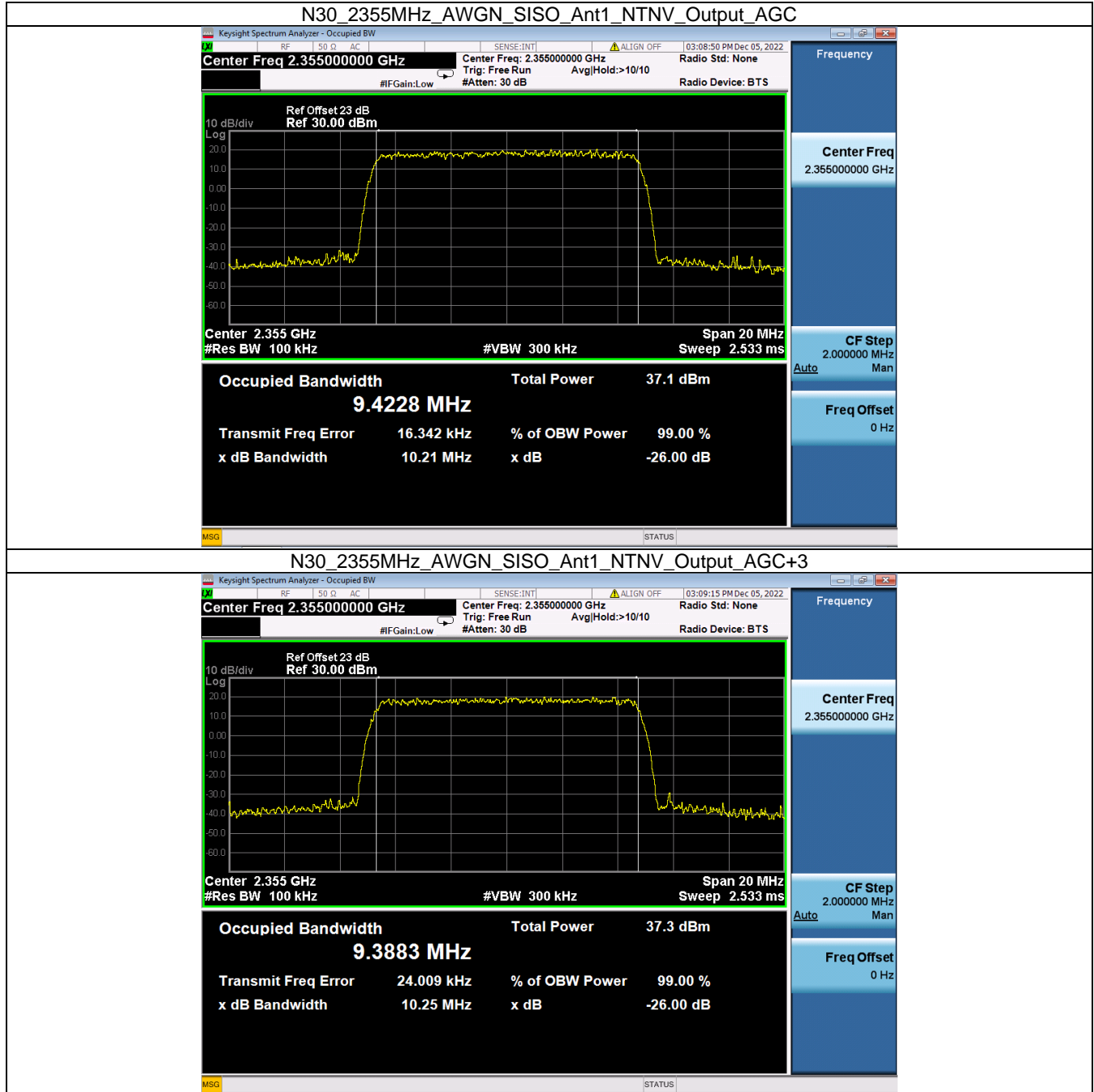
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For 5GNR N30



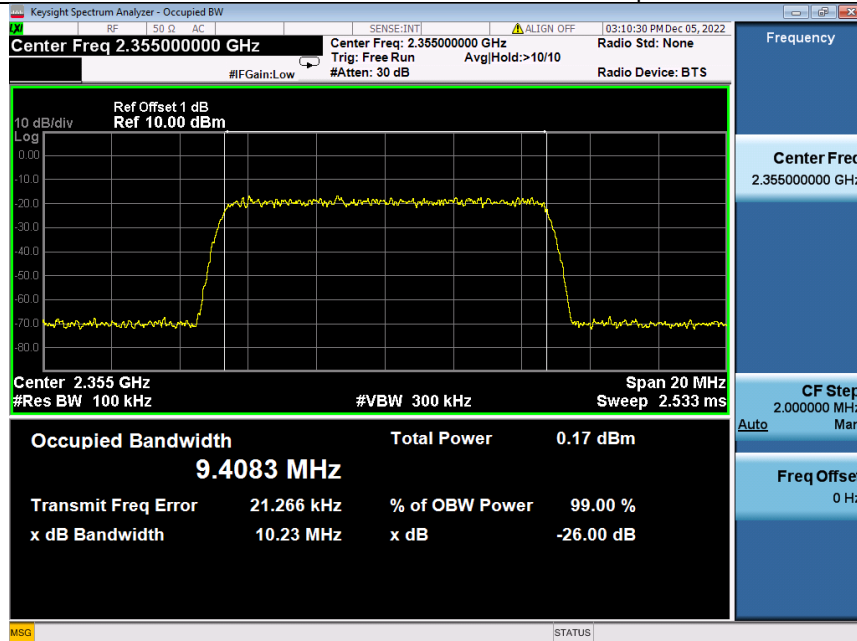
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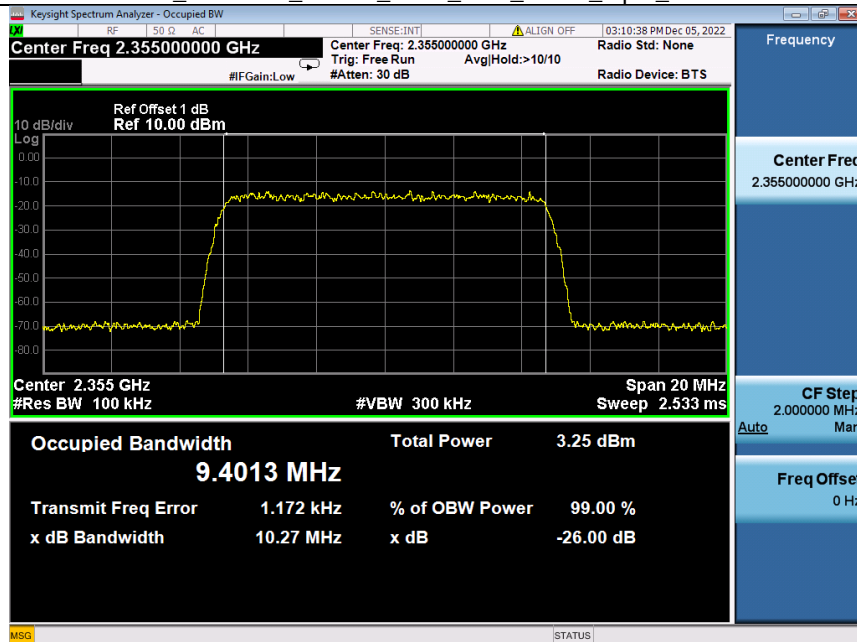
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N30_2355MHz_AWGN_SISO_Ant1_NTNV_Input_AGC



N30_2355MHz_AWGN_SISO_Ant1_NTNV_Input_AGC+3



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4. Input/output power and amplifier/booster gain

4.1 Band30_EIRP

4.1.1 Test Result

For LTE Band 30

Band: 30 / NTNV										
Signal			TX Type	ANT	Conducted Power (dBm)		EIRP (dBm)		Booster Gain (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit		
AWGN	-0.3	2356.25	SISO	1	37.56	-0.24	49.56	<=63.01	37.80	Pass
	2.7	2356.25	SISO	1	37.63	2.38	49.63	<=63.01	/	Pass
GMSK	-0.3	2356.25	SISO	1	37.34	-0.34	49.34	<=63.01	37.68	Pass
	2.7	2356.25	SISO	1	37.47	2.64	49.47	<=63.01	/	Pass

For 5G NR N30

N30 / NTNV										
Signal			TX Type	ANT	Conducted Power (dBm)		EIRP (dBm)		Booster Gain (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit		
AWGN	-0.3	2356.25	SISO	1	37.23	-0.24	49.23	<=63.01	37.47	Pass
	2.7	2356.25	SISO	1	37.48	2.38	49.48	<=63.01	/	Pass

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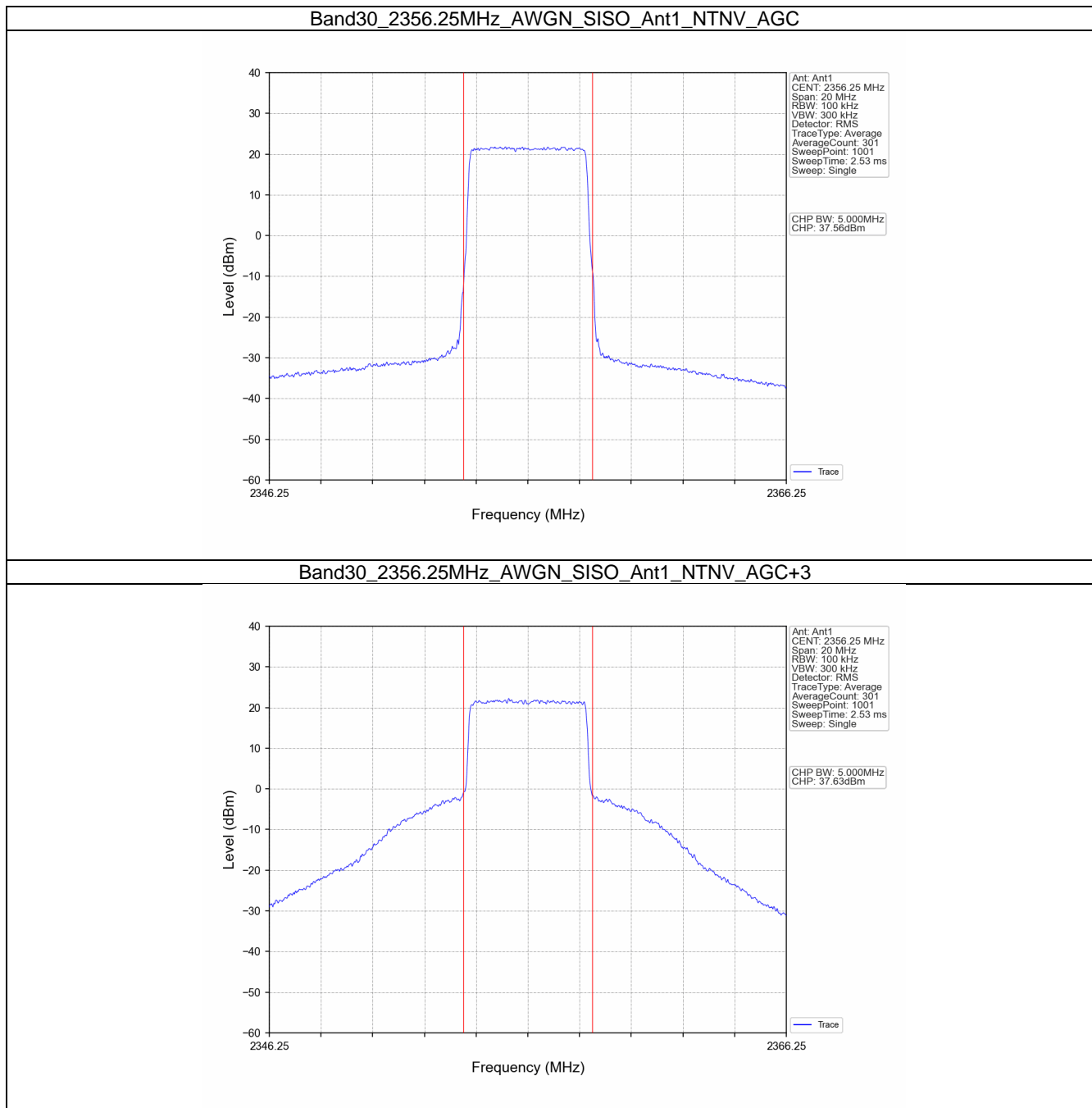
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4.1.2 Test Graph

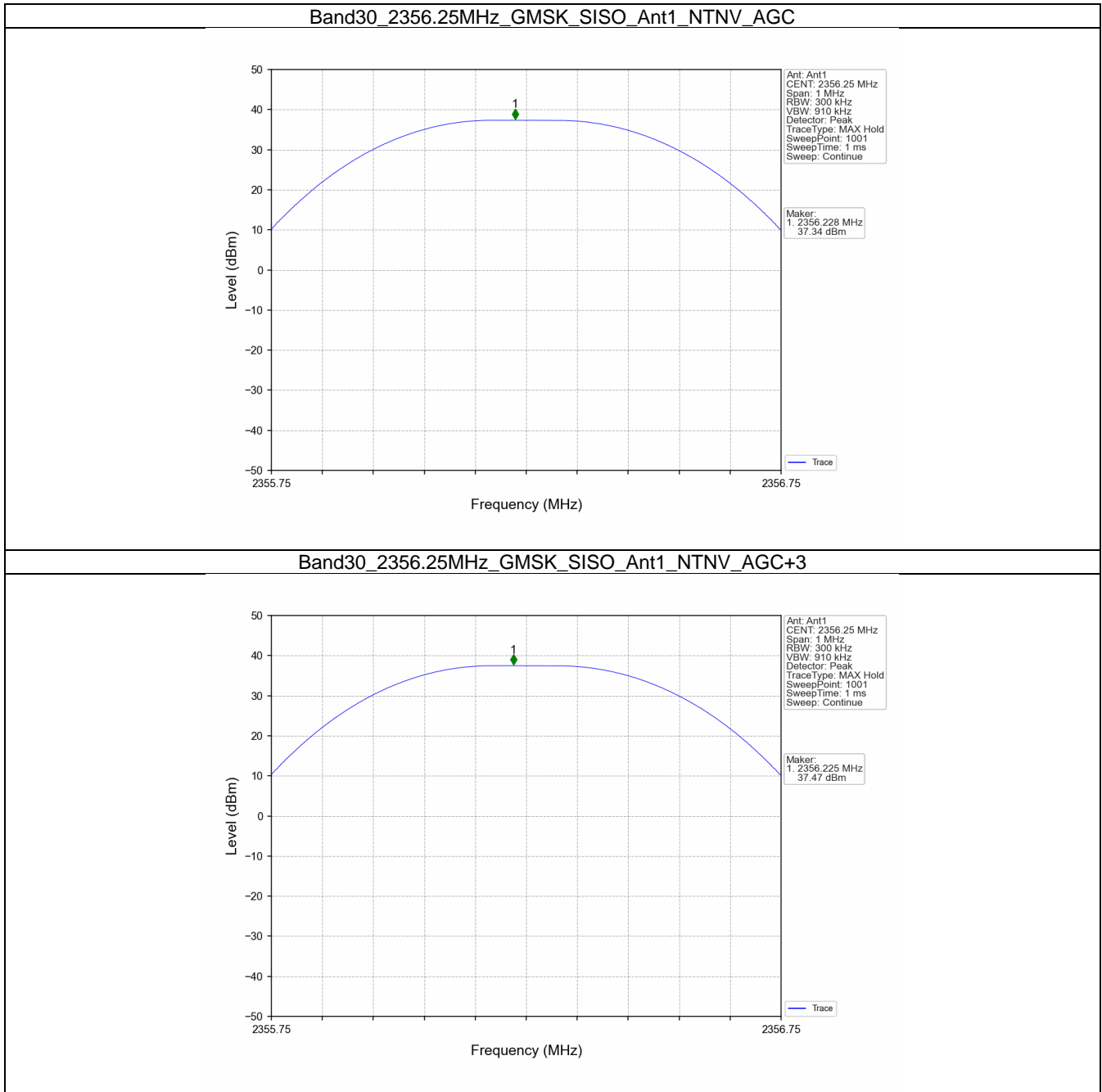
For LTE Band 30



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4.2 Band30_PAPR

4.2.1 Test Result

For LTE Band 30

Band: 30 / NTNV							
Type	Signal		TX Type	ANT	PAPR (dB)		Verdict
	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	-0.3	2356.25	SISO	1	8.16	<=13	Pass
	2.7	2356.25	SISO	1	8.15	<=13	Pass
GMSK	-0.3	2356.25	SISO	1	0.43	<=13	Pass
	2.7	2356.25	SISO	1	0.30	<=13	Pass

For 5G NR N30

N30 / NTNV							
Type	Signal		TX Type	ANT	PAPR (dB)		Verdict
	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	-0.3	2355	SISO	1	8.40	<=13	Pass
	2.7	2355	SISO	1	8.39	<=13	Pass



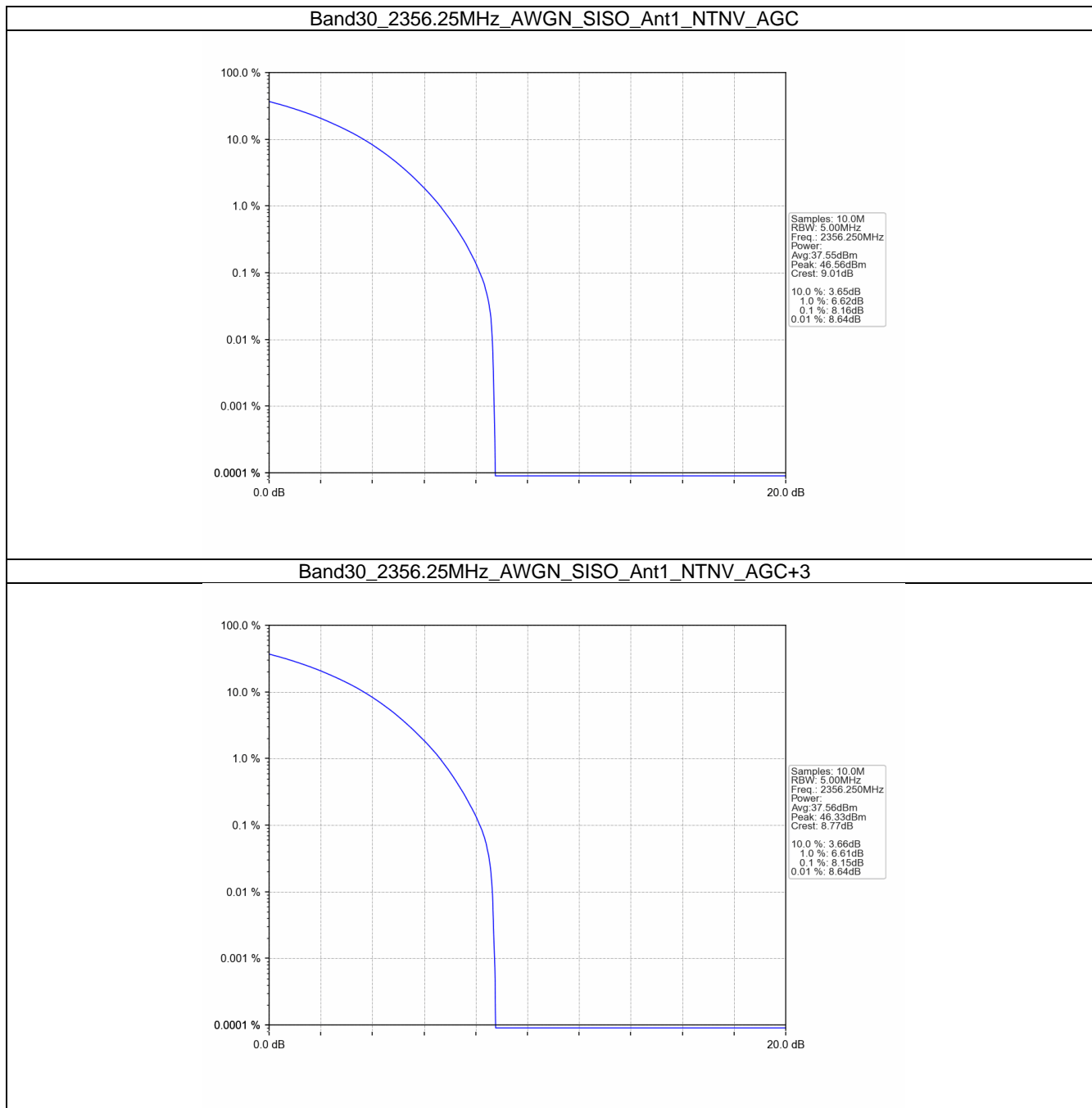
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4.2.2 Test Graph

For LTE Band 30



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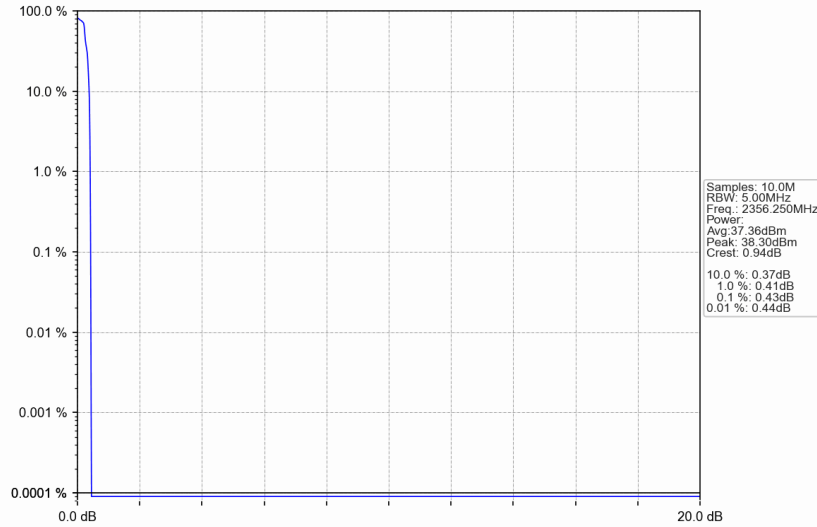
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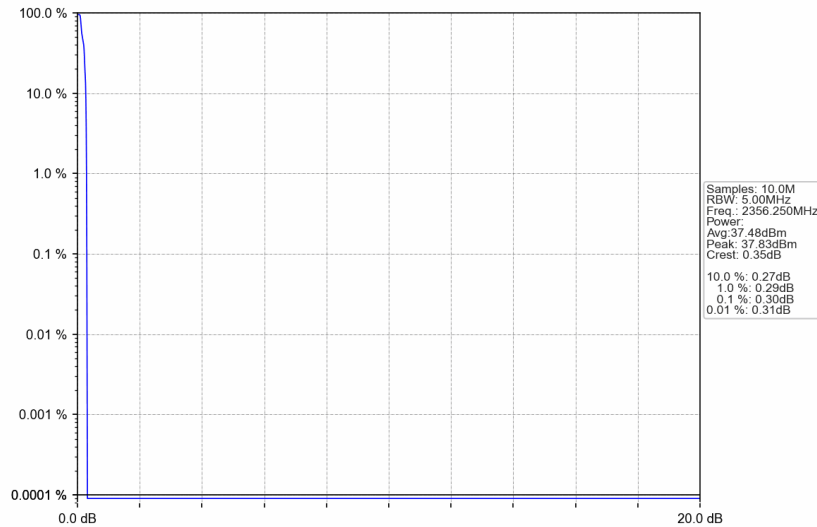
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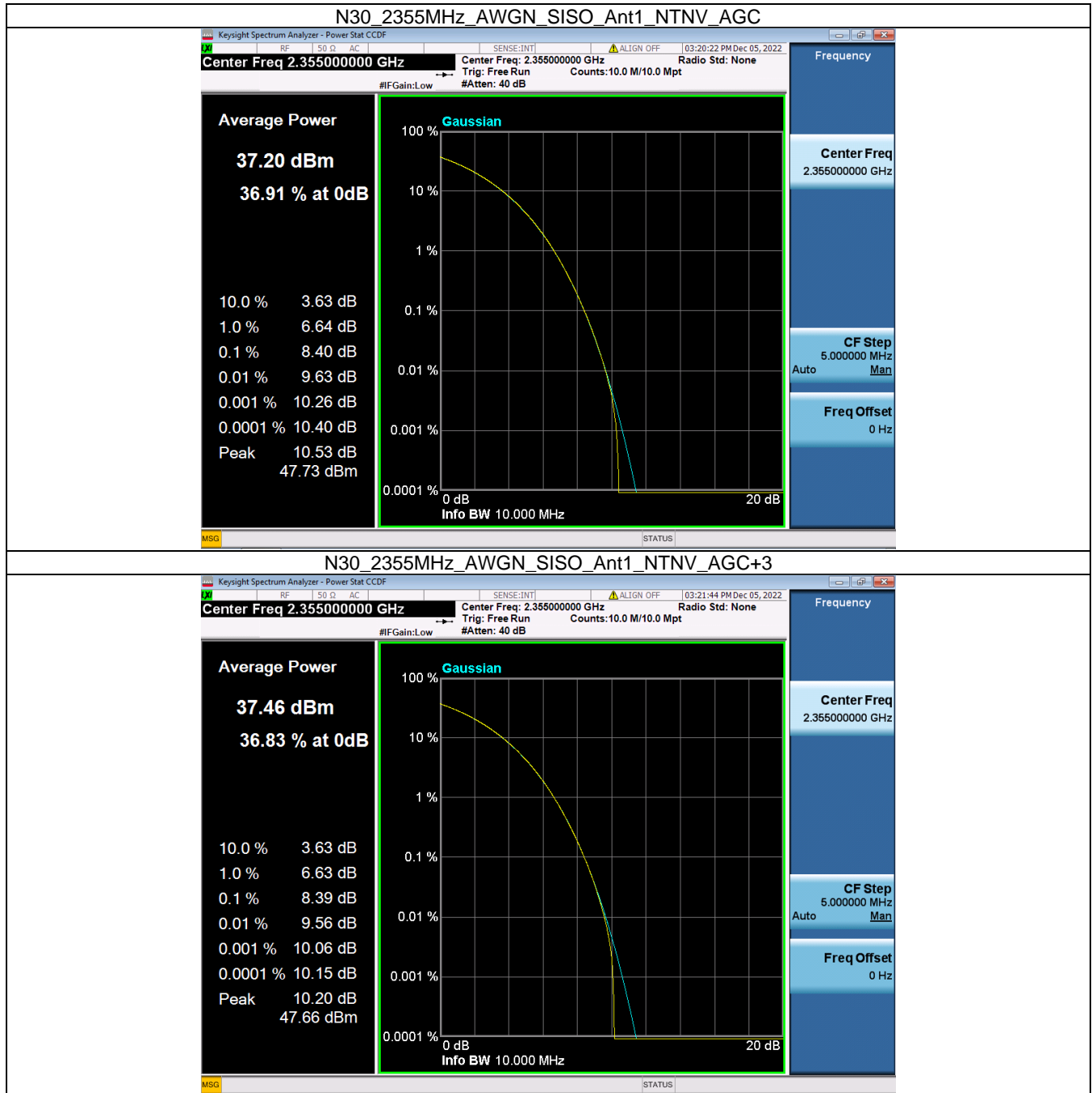
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5. Out-of-band/out-of-block (including intermodulation) emissions

5.1 Band30

5.1.1 Test Result

For LTE Band 30

Band: 30 / NTN									
Input	Type	Signal		Channel	TX Type	ANT	OOB (dBm)		Verdict
		Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	-0.3	2352.5	LCH	SISO	1	-59.88	Refer To Test Graph	Pass
		2.7	2352.5	LCH	SISO	1	-59.79	Refer To Test Graph	Pass
One	AWGN	-0.3	2352.5	LCH	SISO	1	-59.75	Refer To Test Graph	Pass
		2.7	2352.5	LCH	SISO	1	-59.92	Refer To Test Graph	Pass
Two	AWGN	-0.3	2357.5	HCH	SISO	1	-59.92	Refer To Test Graph	Pass
		2.7	2357.5	HCH	SISO	1	-59.64	Refer To Test Graph	Pass
One	AWGN	-0.3	2357.5	HCH	SISO	1	-59.48	Refer To Test Graph	Pass
		2.7	2357.5	HCH	SISO	1	-59.86	Refer To Test Graph	Pass
Two	GMSK	-0.3	2350.1	LCH	SISO	1	-59.83	Refer To Test Graph	Pass
		2.7	2350.1	LCH	SISO	1	-59.87	Refer To Test Graph	Pass
One	GMSK	-0.3	2350.1	LCH	SISO	1	-59.81	Refer To Test Graph	Pass
		2.7	2350.1	LCH	SISO	1	-59.31	Refer To Test Graph	Pass
Two	GMSK	-0.3	2359.9	HCH	SISO	1	-59.65	Refer To Test Graph	Pass
		2.7	2359.9	HCH	SISO	1	-59.62	Refer To Test Graph	Pass
One	GMSK	-0.3	2359.9	HCH	SISO	1	-59.96	Refer To Test Graph	Pass
		2.7	2359.9	HCH	SISO	1	-59.76	Refer To Test Graph	Pass

For 5G NR N30

N30 / NTN									
Input	Type	Signal		Channel	TX Type	ANT	OOB (dBm)		Verdict
		Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	-0.3	2355	LCH	SISO	1	-33.193	Refer To Test Graph	Pass
		2.7	2355	LCH	SISO	1	-33.162	Refer To Test Graph	Pass
One	AWGN	-0.3	2355	LCH	SISO	1	-33.220	Refer To Test Graph	Pass
		2.7	2355	LCH	SISO	1	-34.450	Refer To Test Graph	Pass
Two	AWGN	-0.3	2355	HCH	SISO	1	-33.888	Refer To Test Graph	Pass
		2.7	2355	HCH	SISO	1	-33.872	Refer To Test Graph	Pass
One	AWGN	-0.3	2355	HCH	SISO	1	-33.675	Refer To Test Graph	Pass
		2.7	2355	HCH	SISO	1	-33.663	Refer To Test Graph	Pass



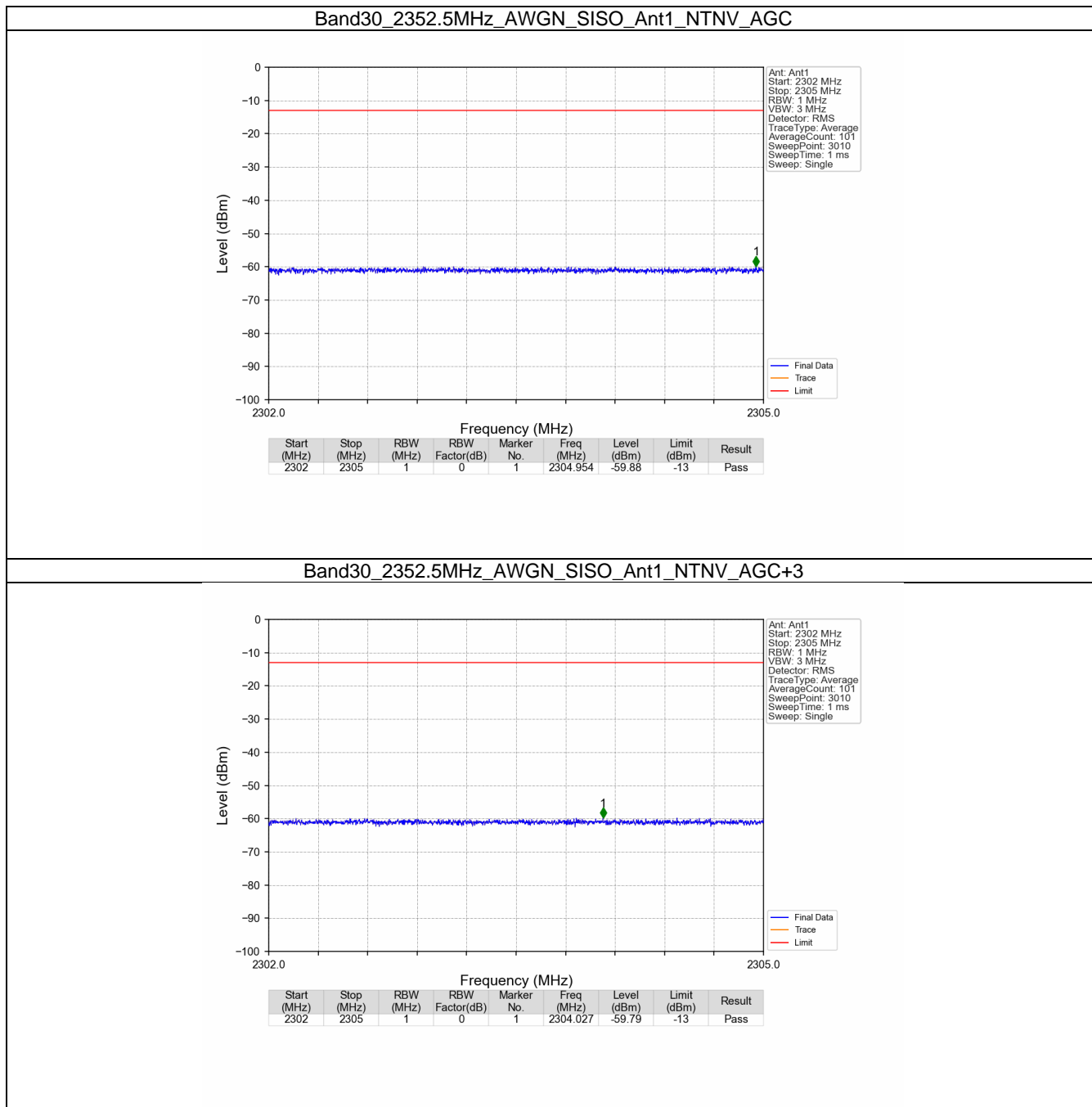
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5.1.2 Test Graph

For LTE Band 30



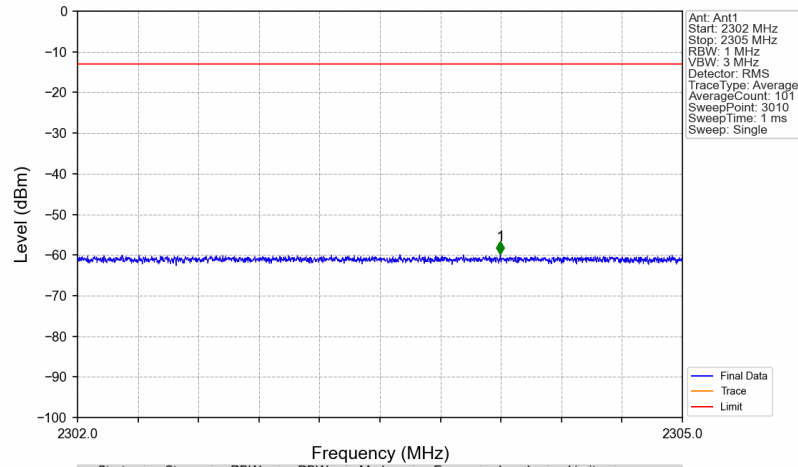
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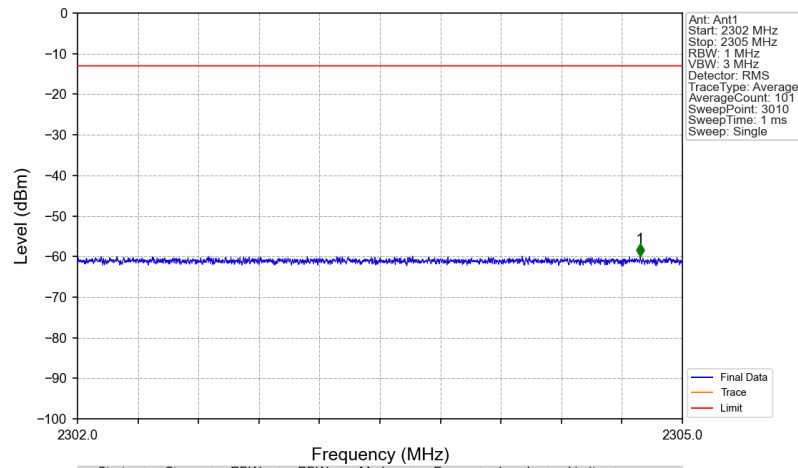
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Band30_2352.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2302	2305	1	0	1	2304.097	-59.75	-13	Pass

Band30_2352.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2302	2305	1	0	1	2304.791	-59.92	-13	Pass



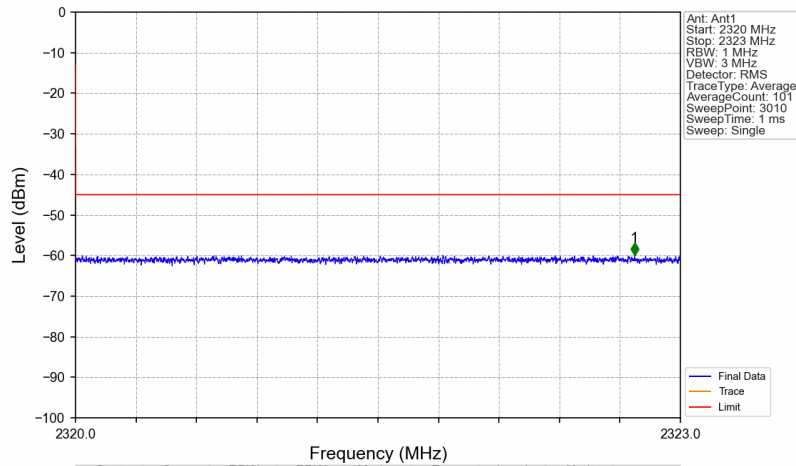
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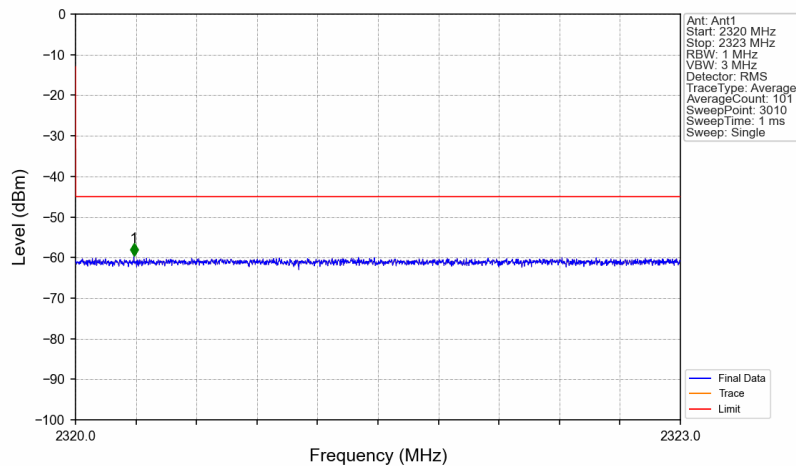
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Band30_2357.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Band30_2357.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



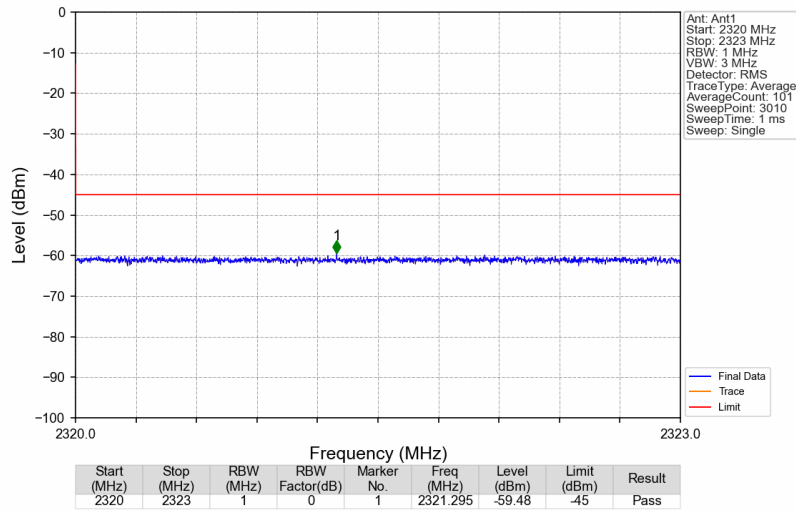
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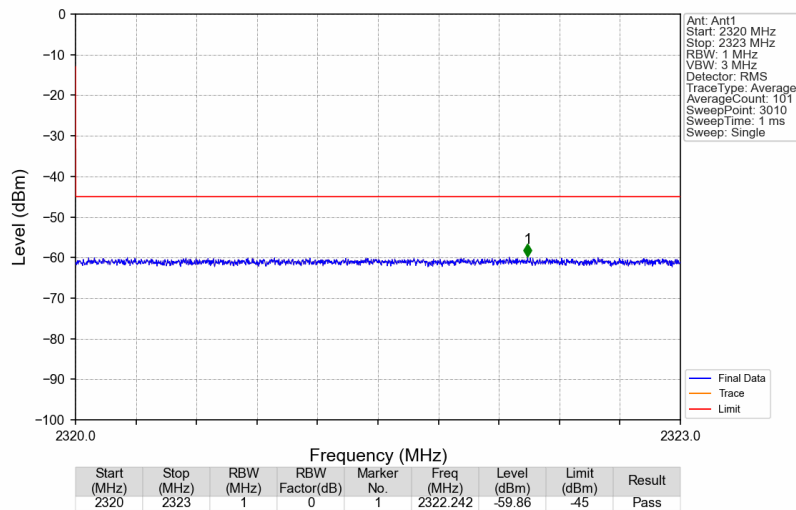
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Band30_2357.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Band30_2357.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



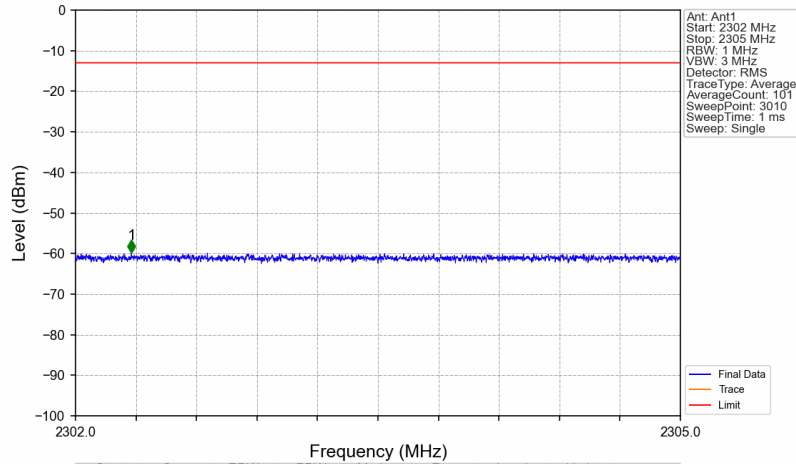
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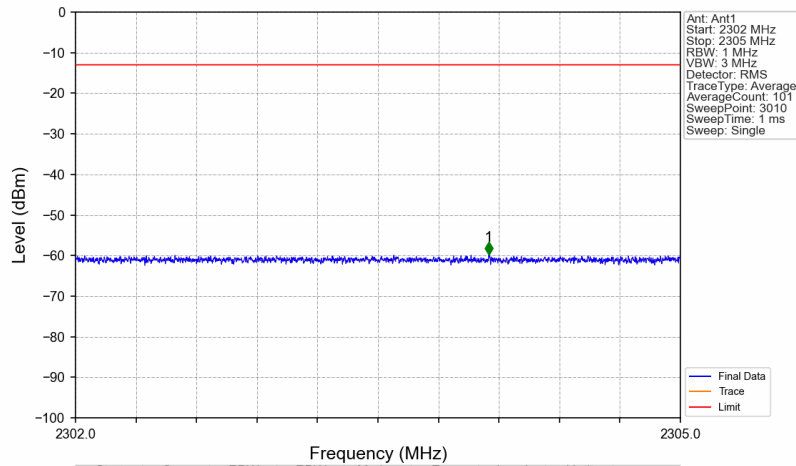
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Band30_2350.1MHz_GMSK_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2302	2305	1	0	1	2302.277	-59.83	-13	Pass

Band30_2350.1MHz_GMSK_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2302	2305	1	0	1	2304.050	-59.87	-13	Pass



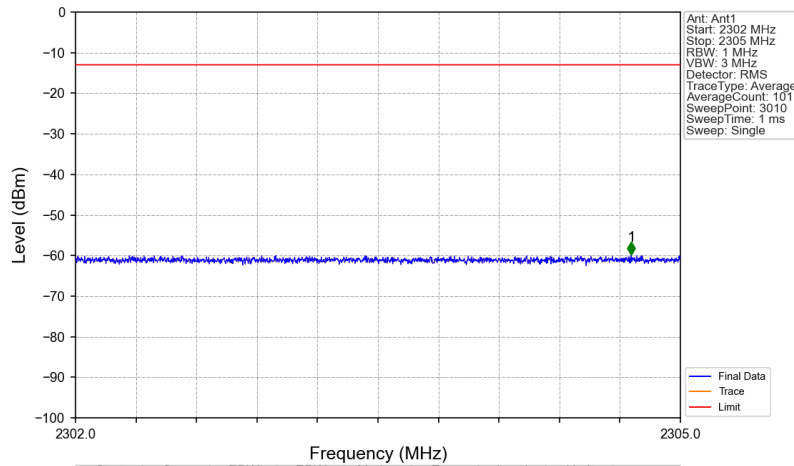
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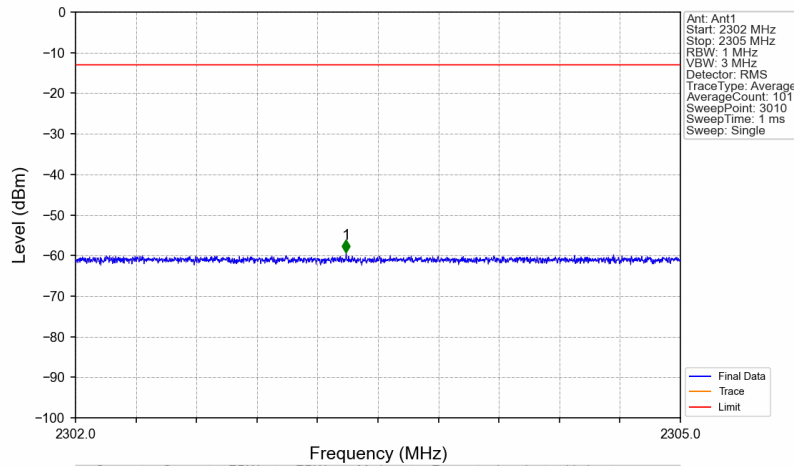
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Band30_2350.1MHz_GMSK_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2302	2305	1	0	1	2304.756	-59.81	-13	Pass

Band30_2350.1MHz_GMSK_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2302	2305	1	0	1	2303.342	-59.31	-13	Pass



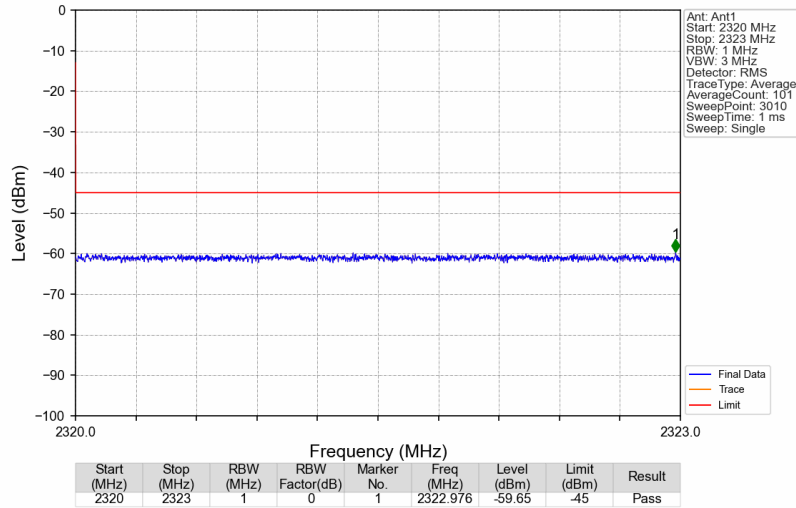
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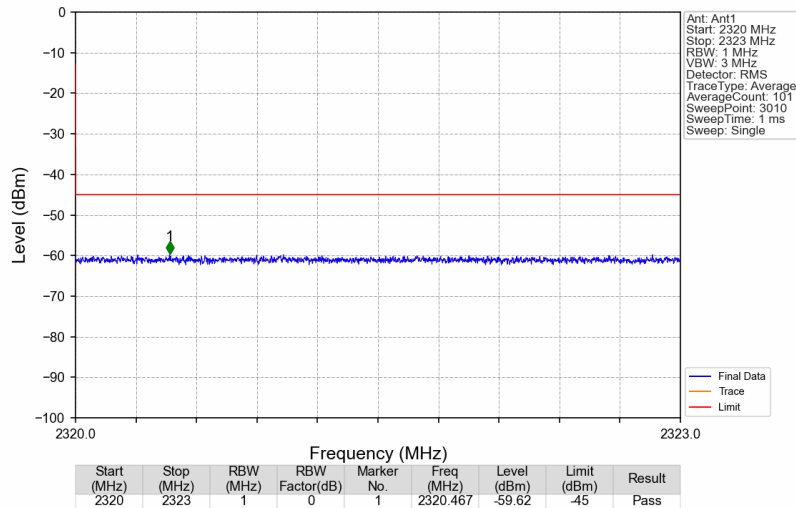
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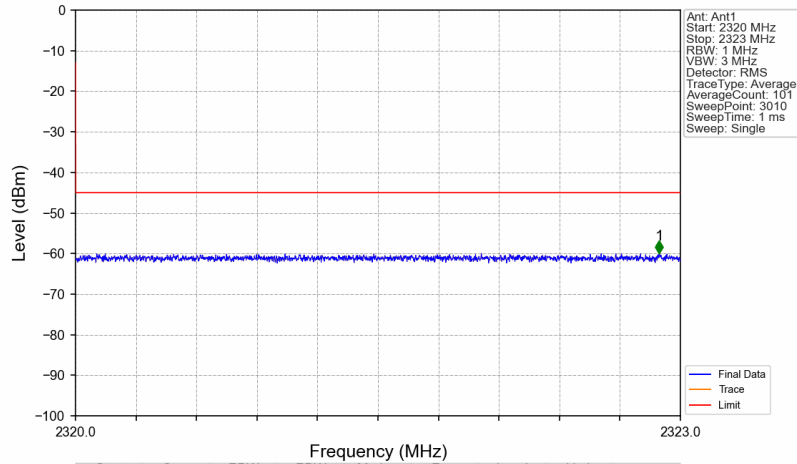
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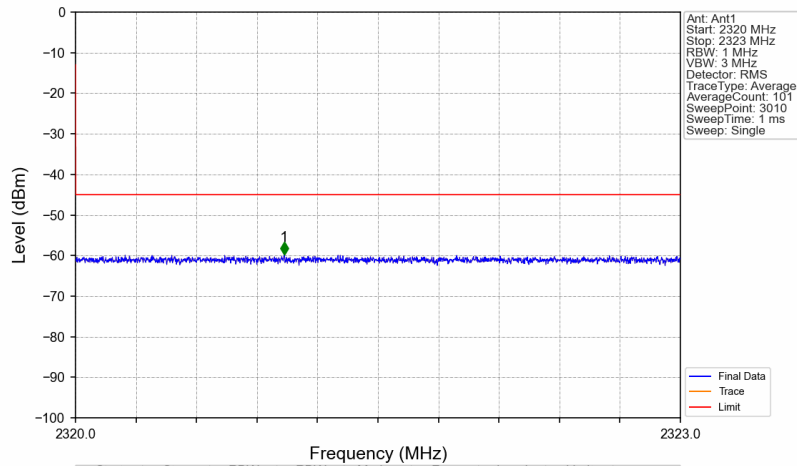
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Band30_2359.9MHz_GMSK_SISO_Ant1_NTNV_AGC



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2320	2323	1	0	1	2322.895	-59.96	-45	Pass

Band30_2359.9MHz_GMSK_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2320	2323	1	0	1	2321.035	-59.76	-45	Pass



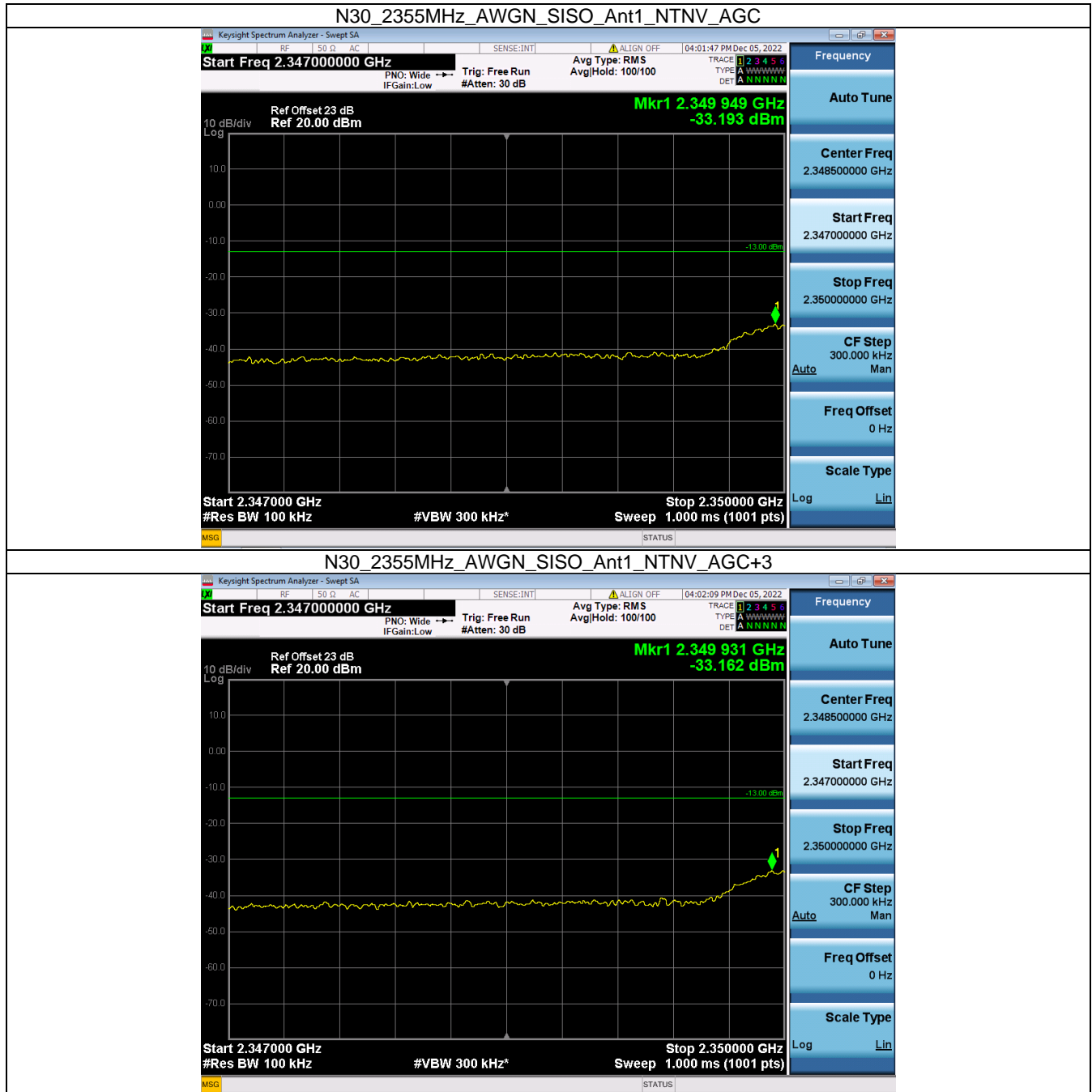
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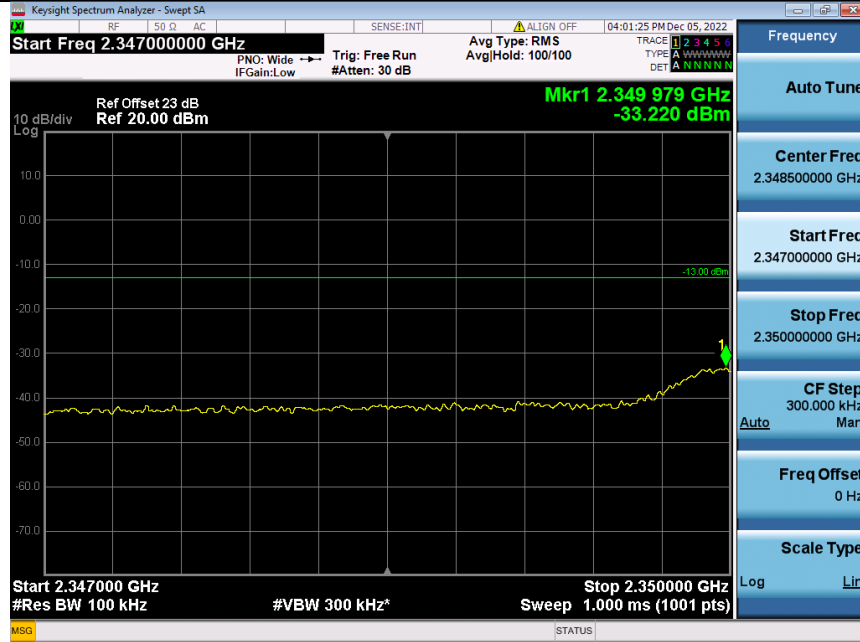
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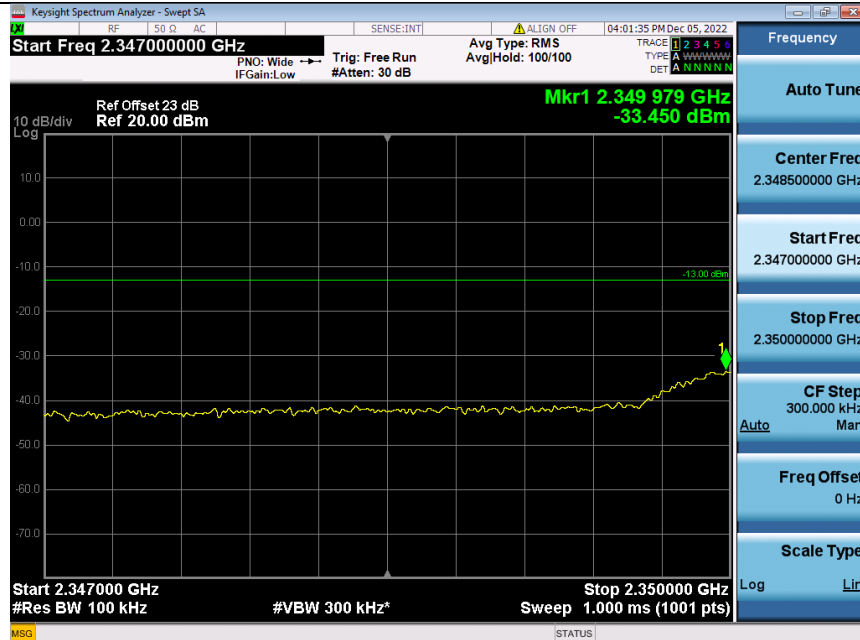
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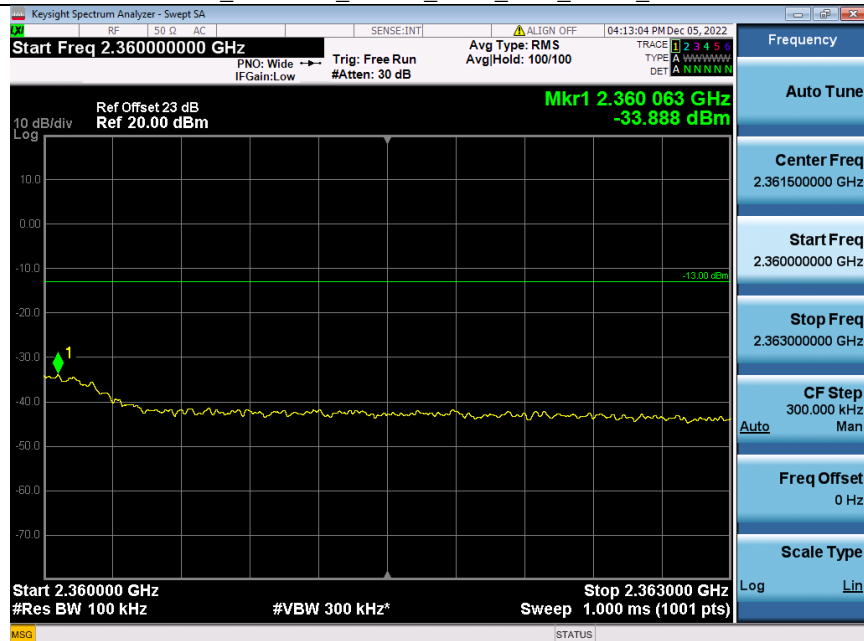
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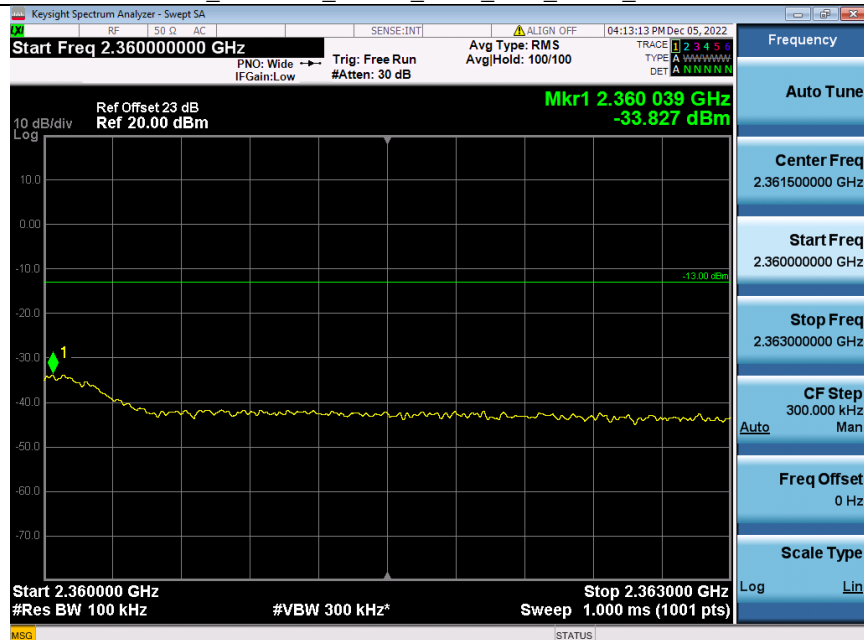
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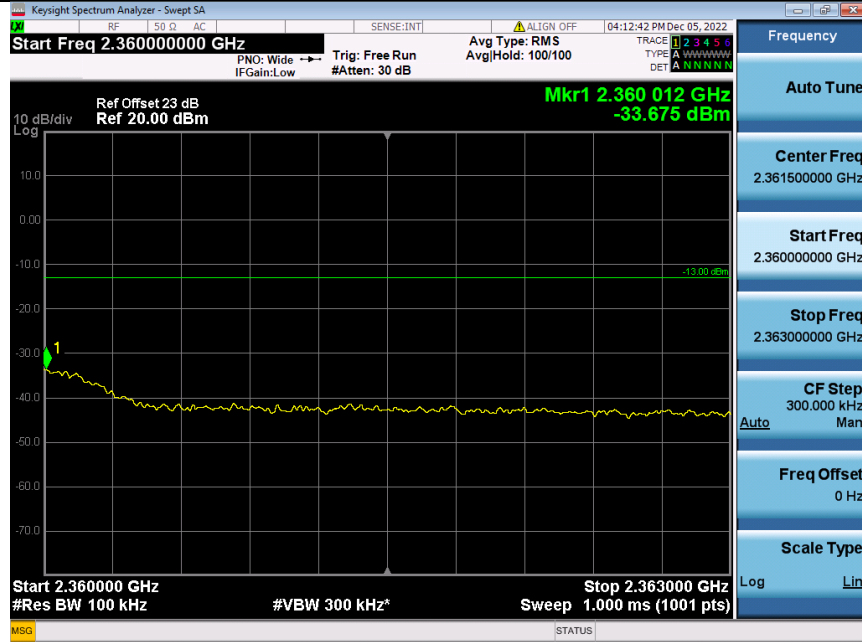
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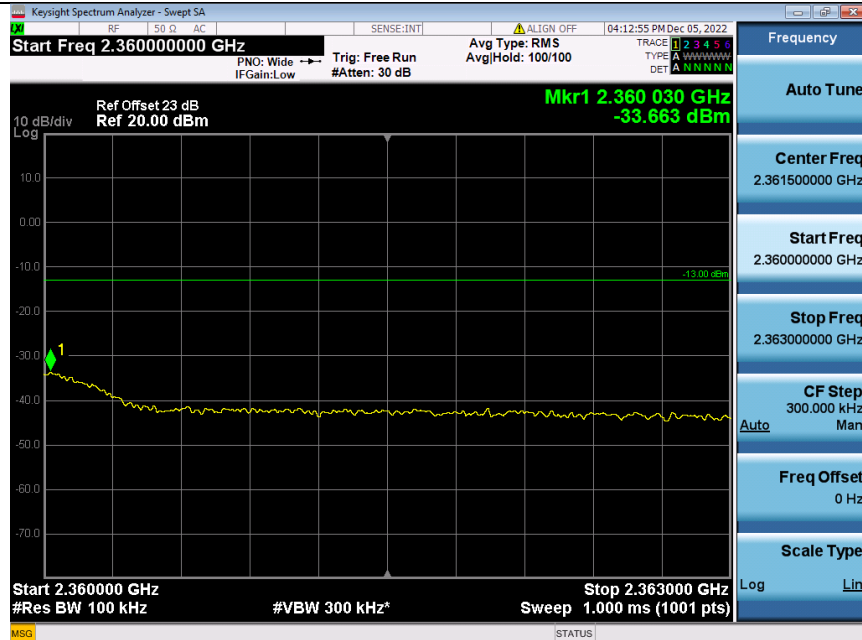
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N30_2355MHz_AWGN_SISO_Ant1_NTNV_AGC+3



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6. Spurious emissions

6.1 Band30

6.1.1 Test Result

For LTE Band 30

Band: 30 / NTNV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	-0.3	2352.5	LCH	SISO	1	Refer To Test Graph		Pass
		2355	MCH	SISO	1	Refer To Test Graph		Pass
		2357.5	HCH	SISO	1	Refer To Test Graph		Pass
GMSK	-0.3	2350.1	LCH	SISO	1	Refer To Test Graph		Pass
		2355	MCH	SISO	1	Refer To Test Graph		Pass
		2359.9	HCH	SISO	1	Refer To Test Graph		Pass

For 5G NR N30

N30 / NTNV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
AWGN	-0.3	2355	MCH	SISO	1	Refer To Test Graph		Pass

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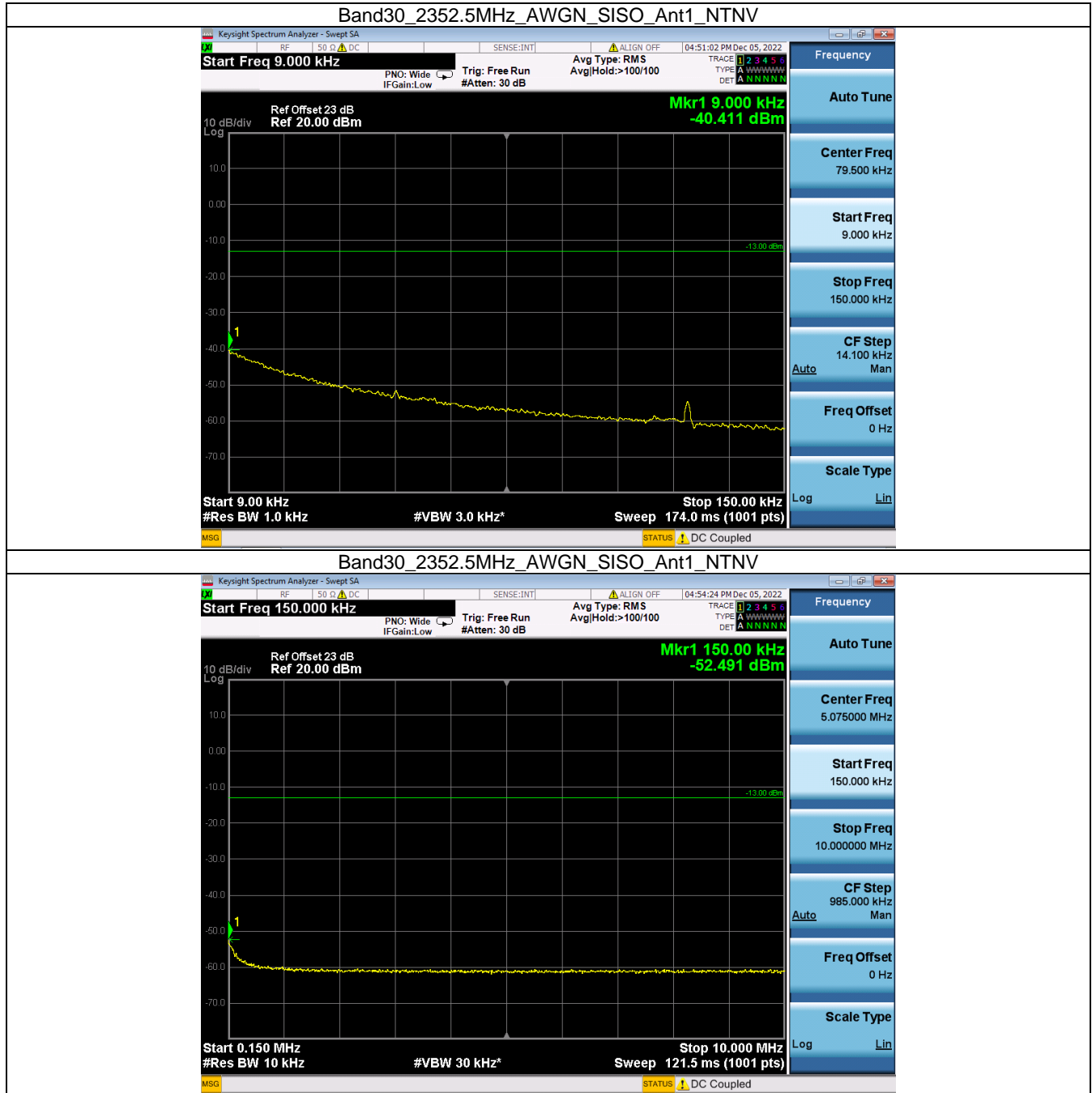
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6.1.2 Test Graph

For LTE Band 30



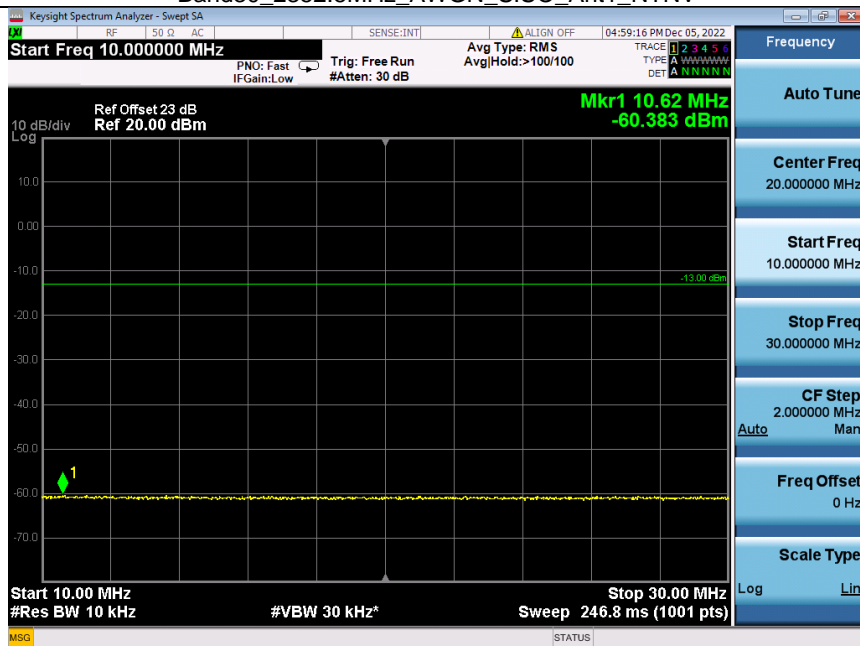
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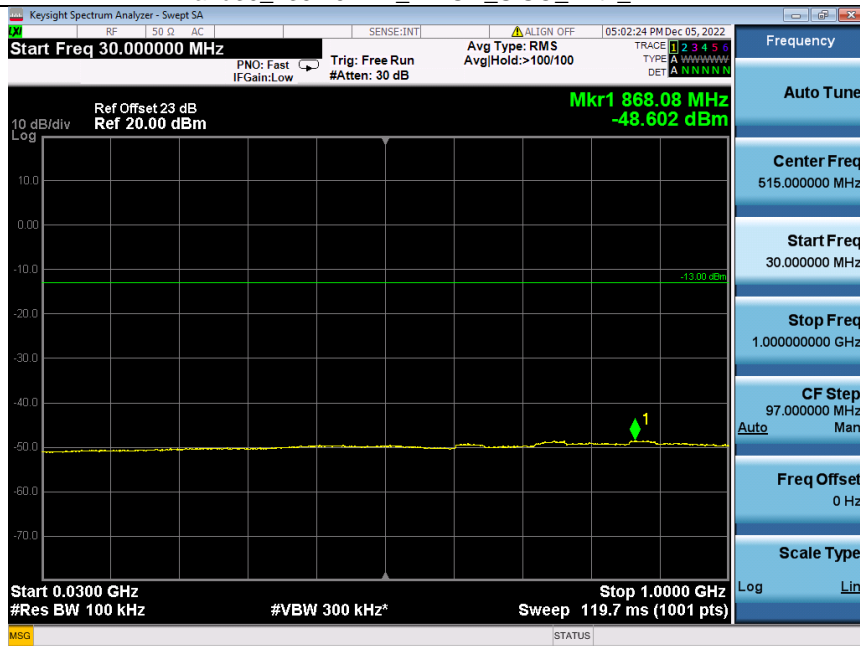
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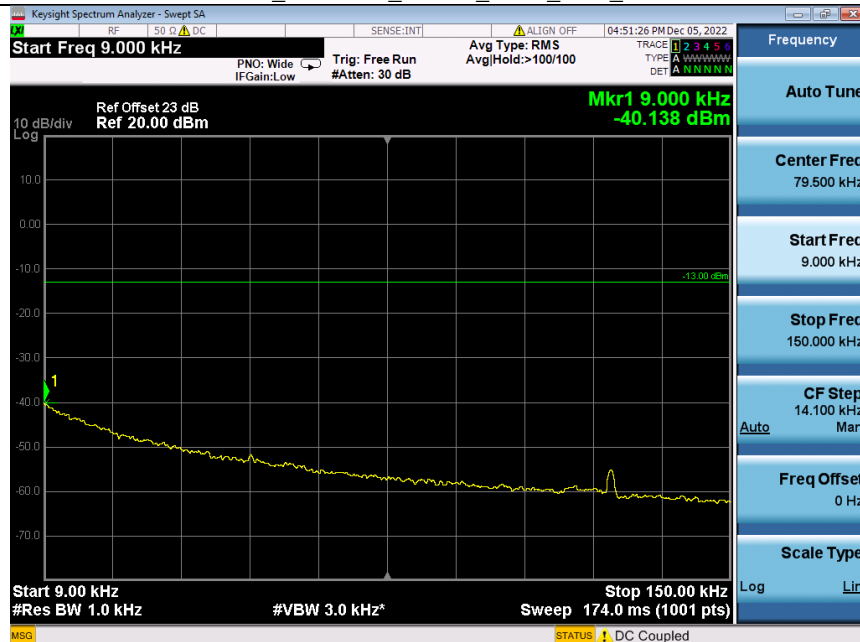
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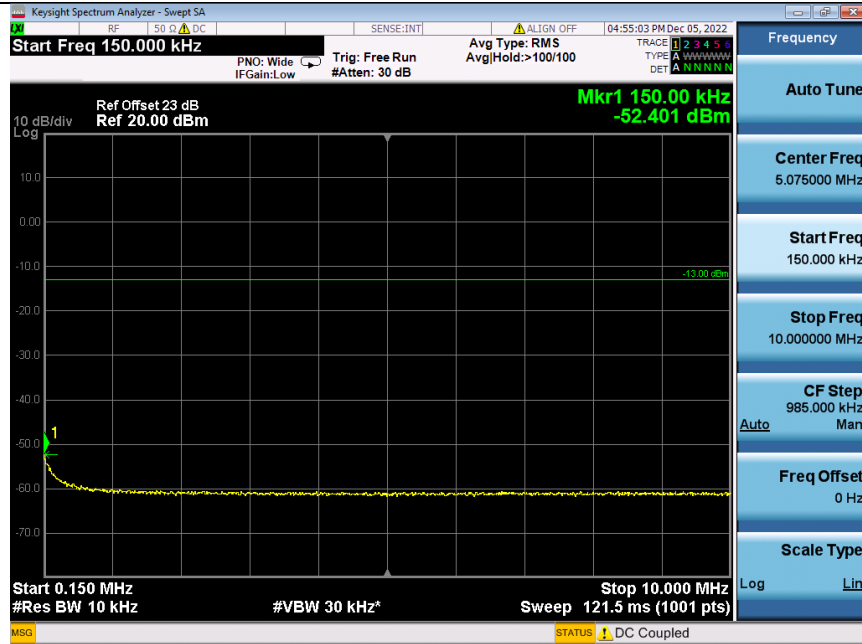
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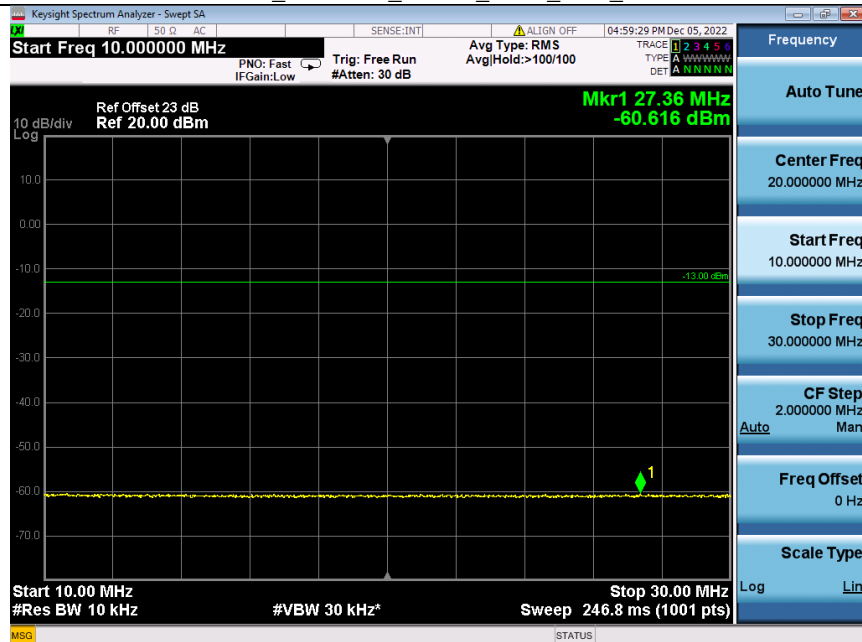
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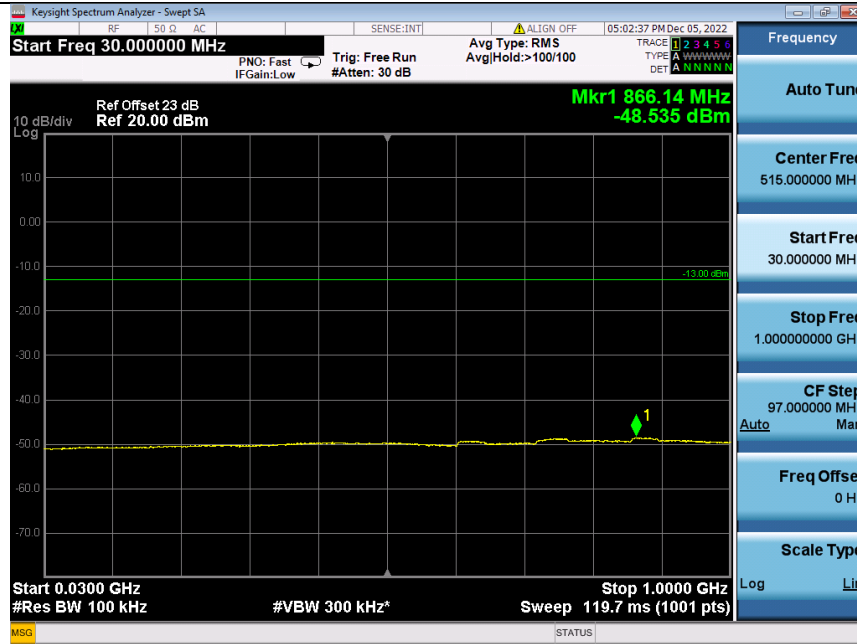
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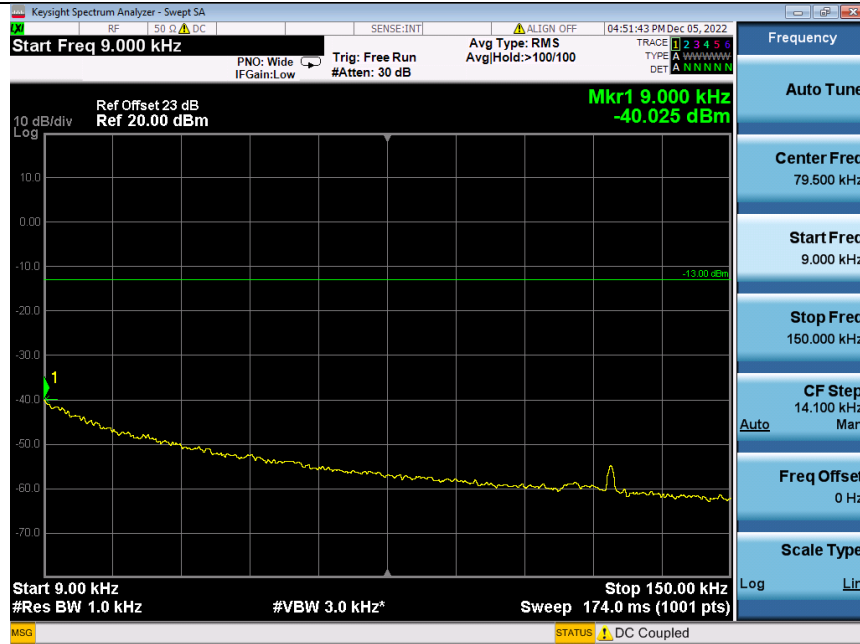
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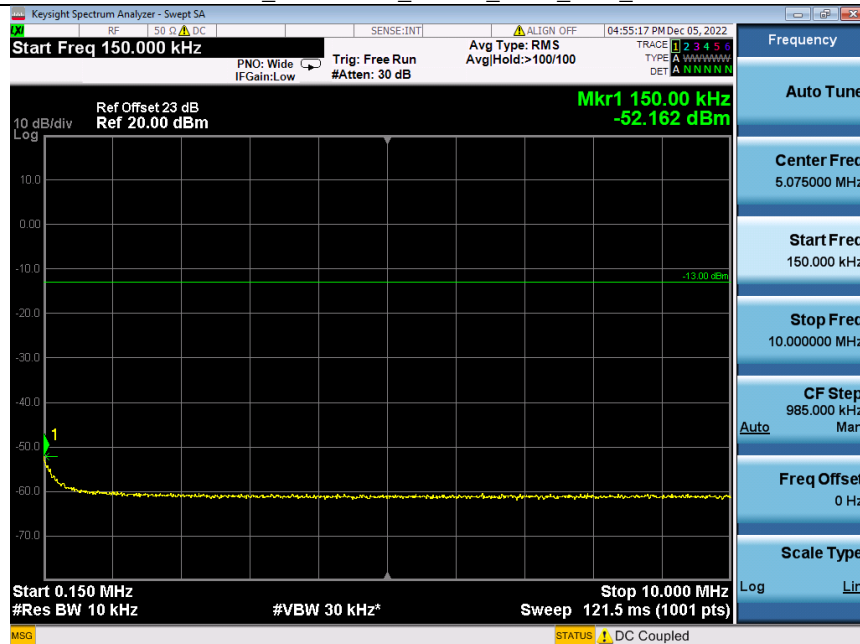
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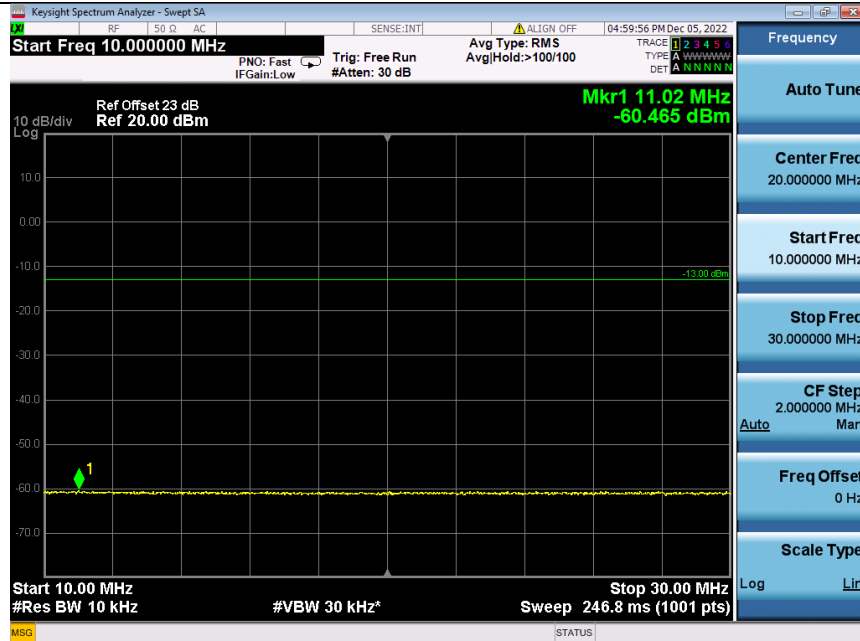
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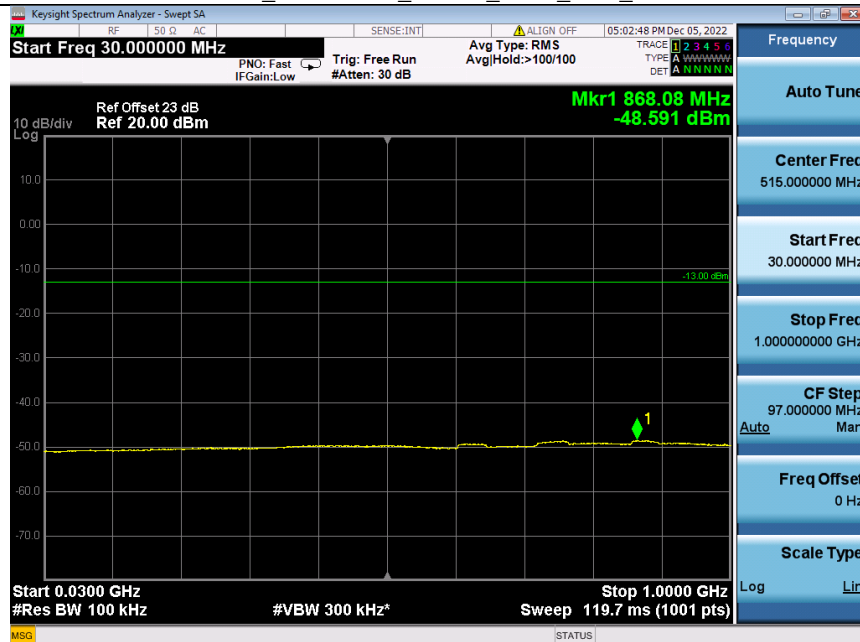
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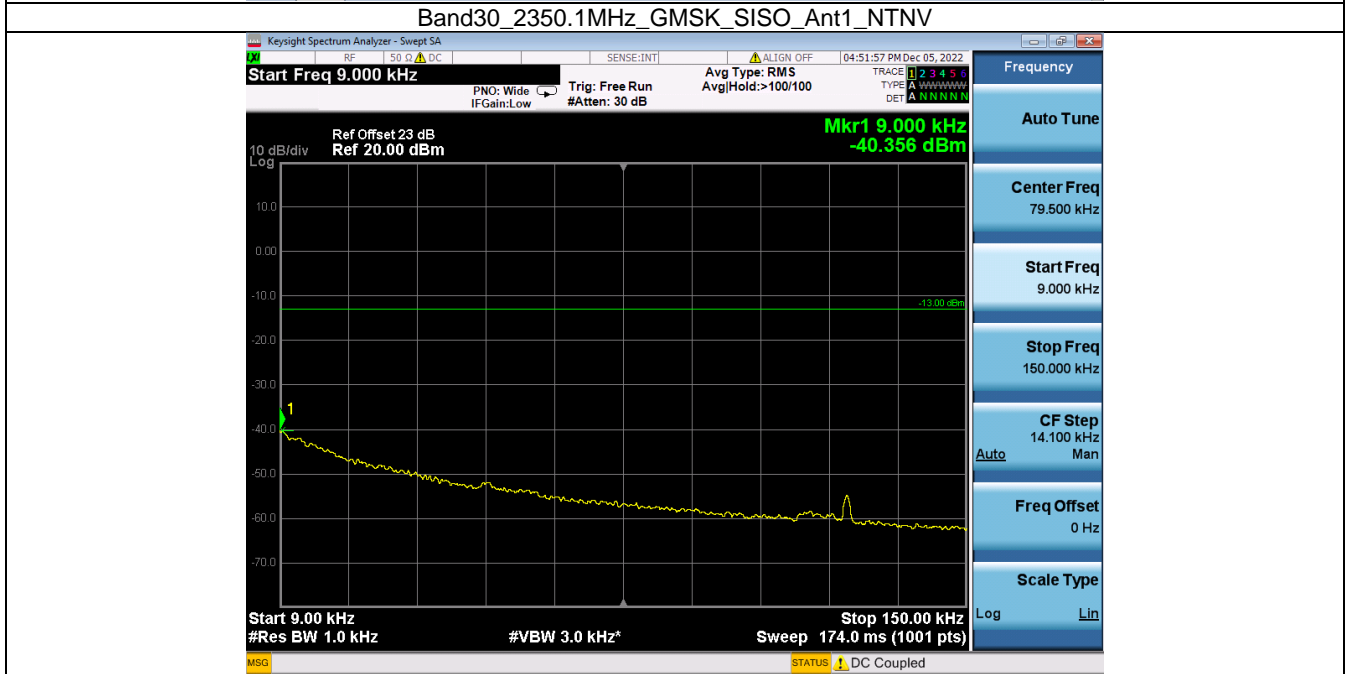


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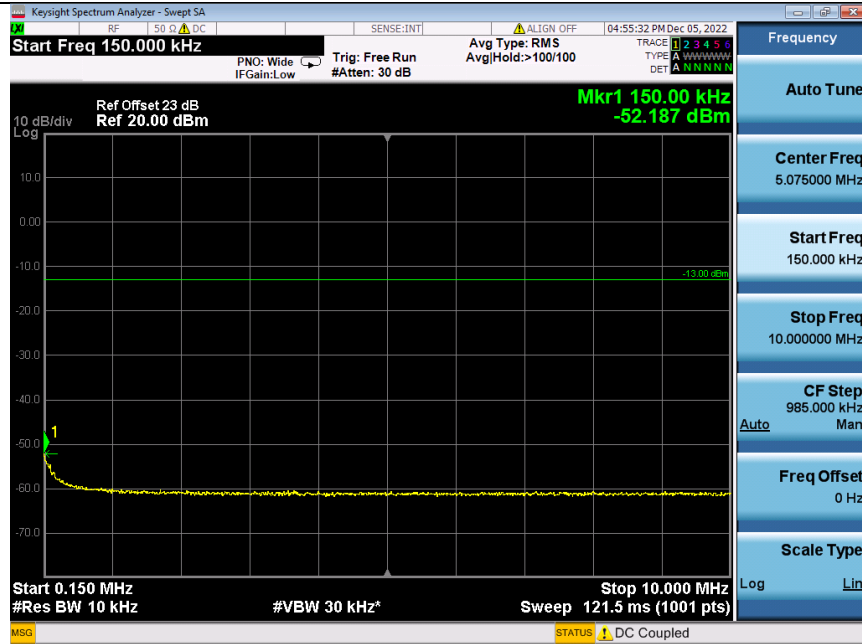
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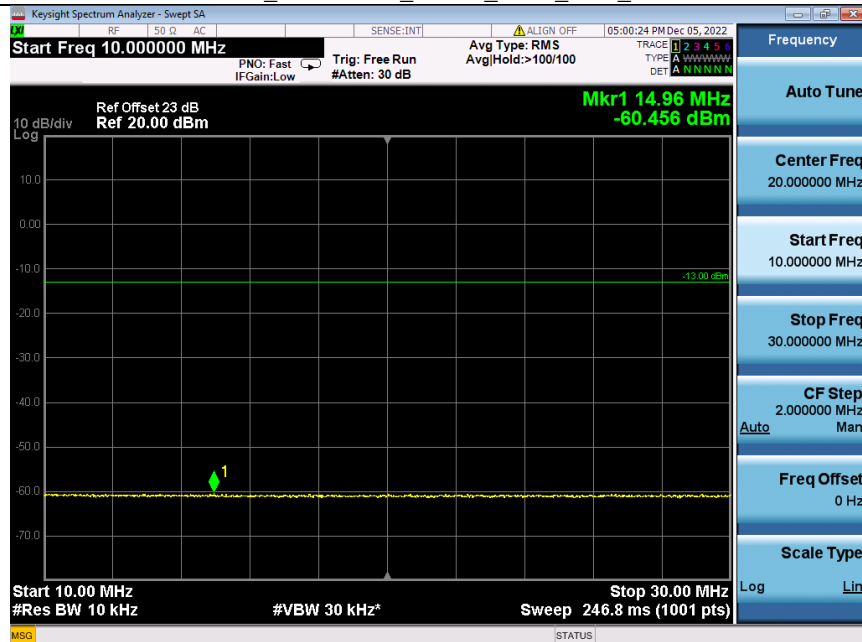
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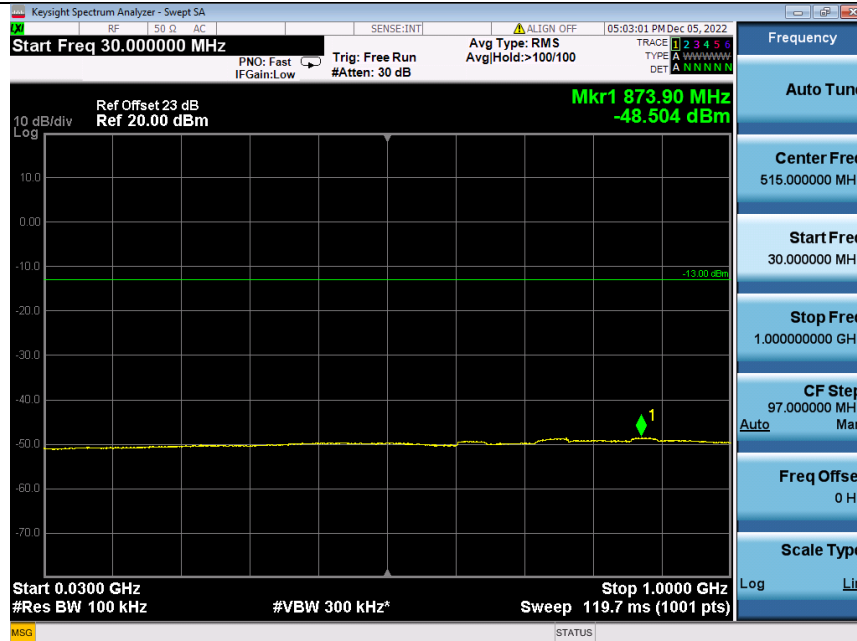
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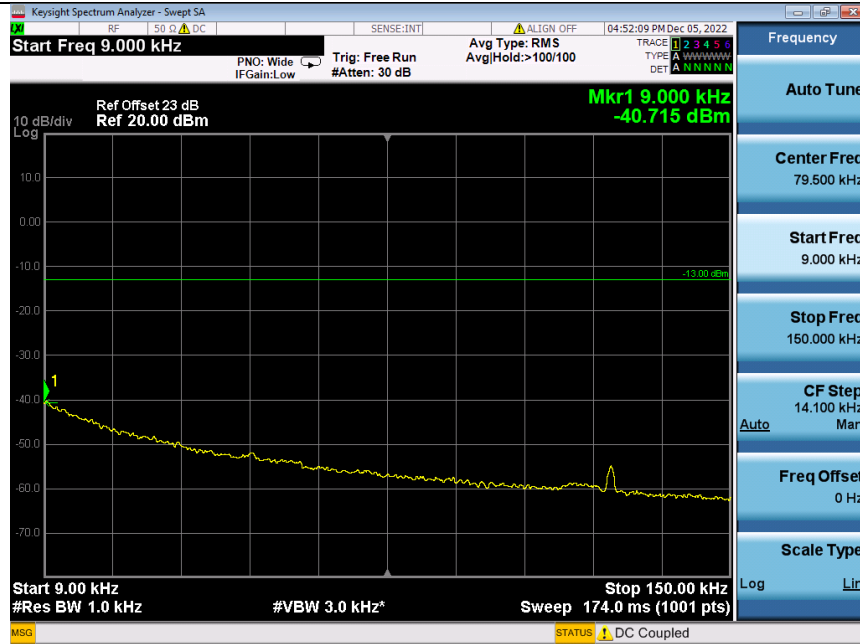
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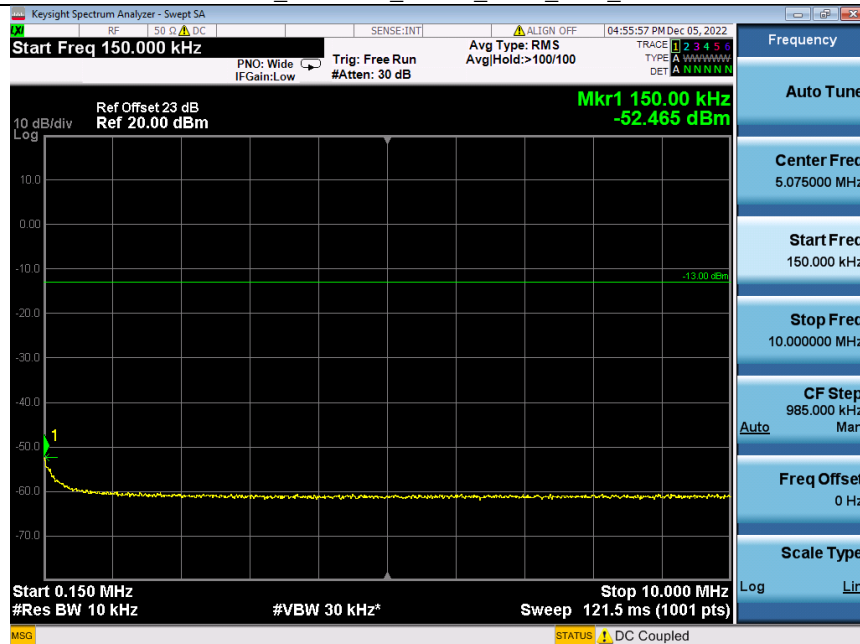
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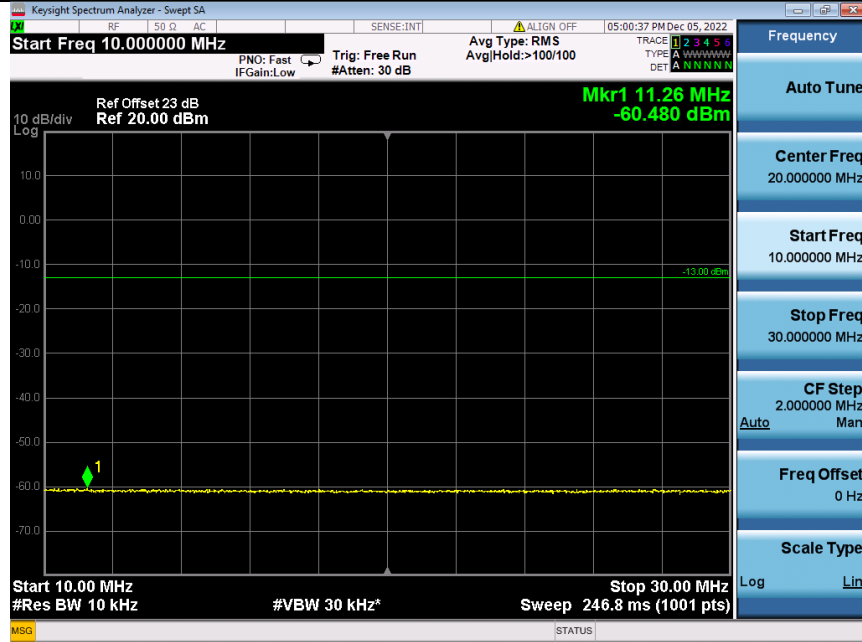
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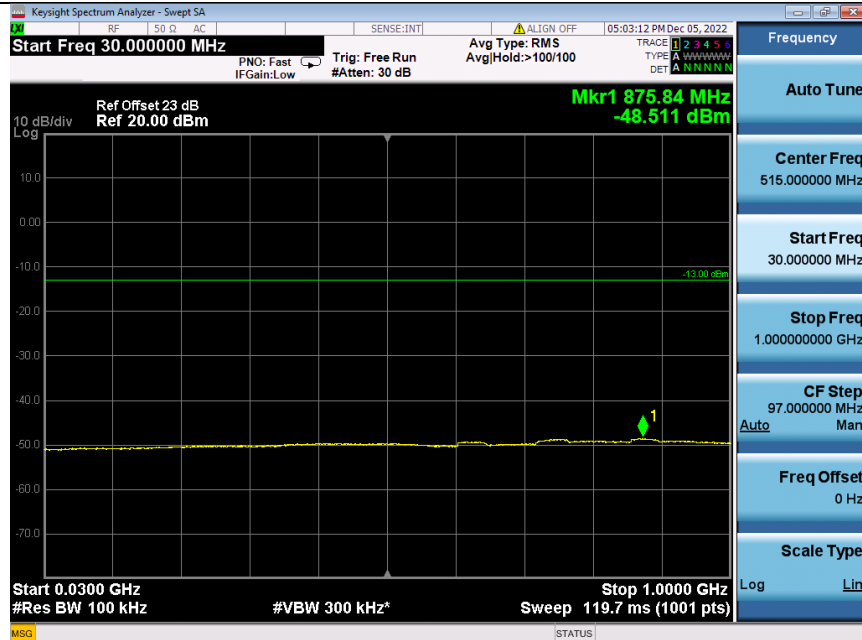
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Band30_2355MHz_GMSK_SISO_Ant1_NTNV



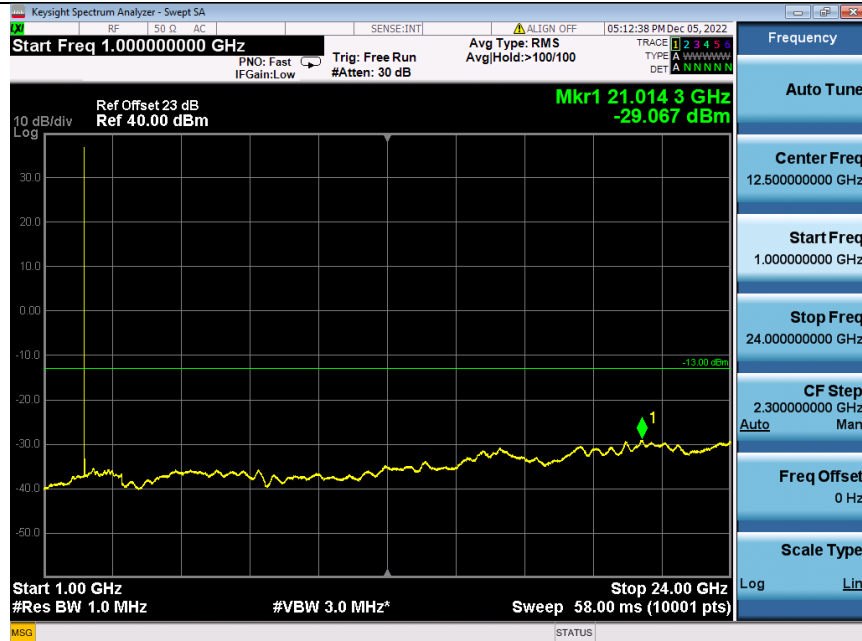
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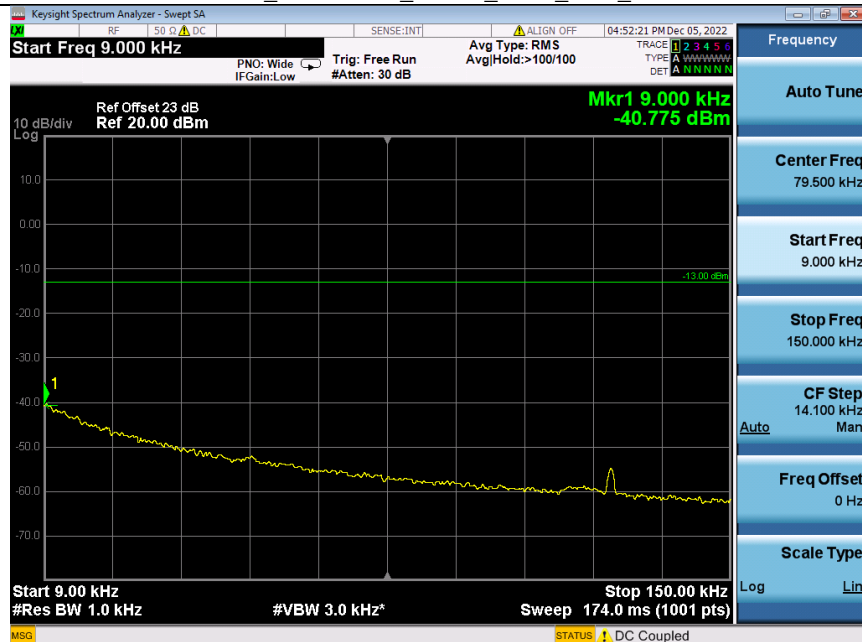
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Band30_2355MHz_GMSK_SISO_Ant1_NTNV



Band30_2359.9MHz_GMSK_SISO_Ant1_NTNV



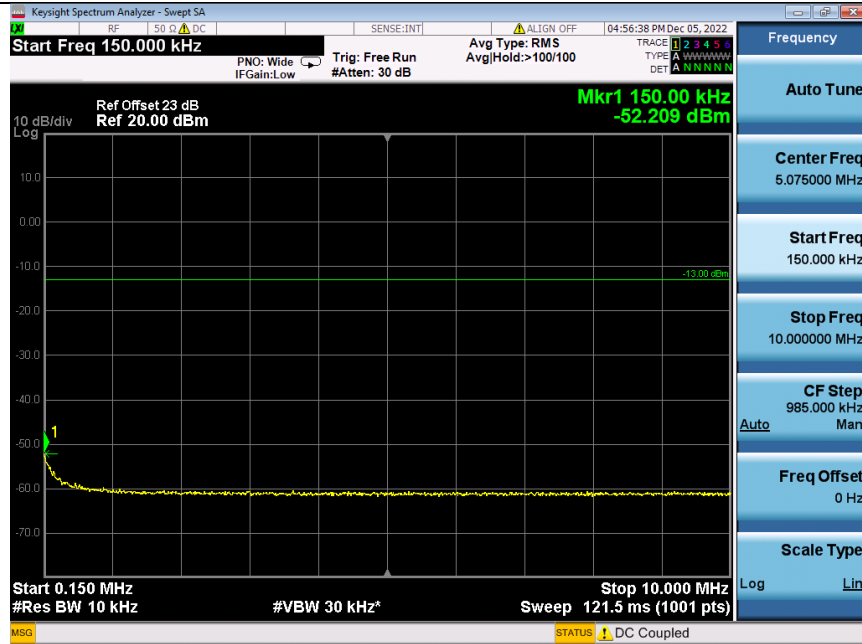
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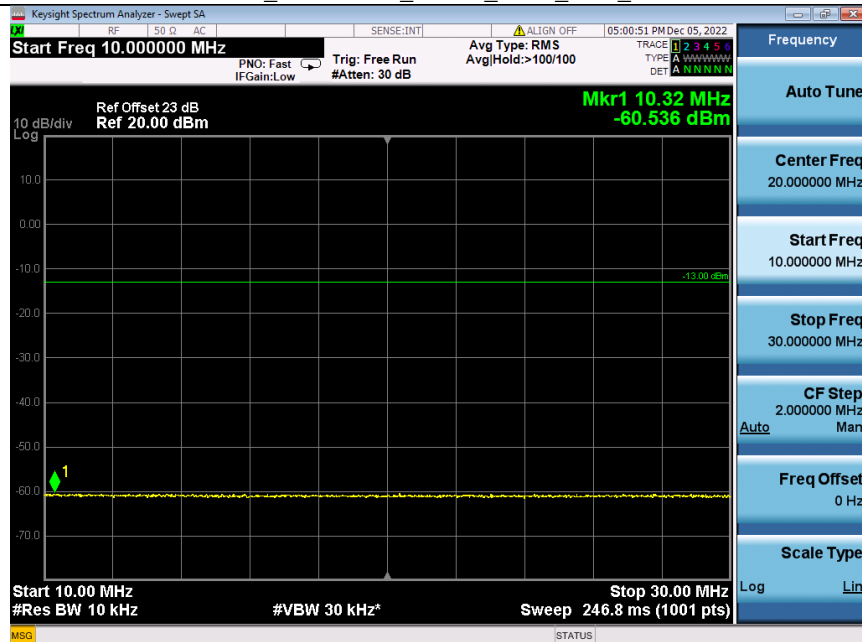
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Band30_2359.9MHz_GMSK_SISO_Ant1_NTNV



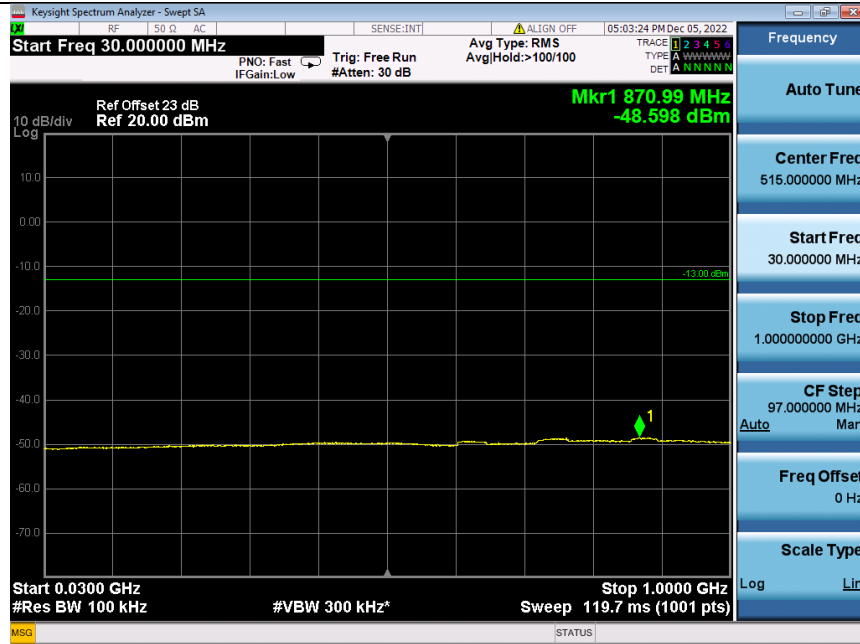
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Band30_2359.9MHz_GMSK_SISO_Ant1_NTNV



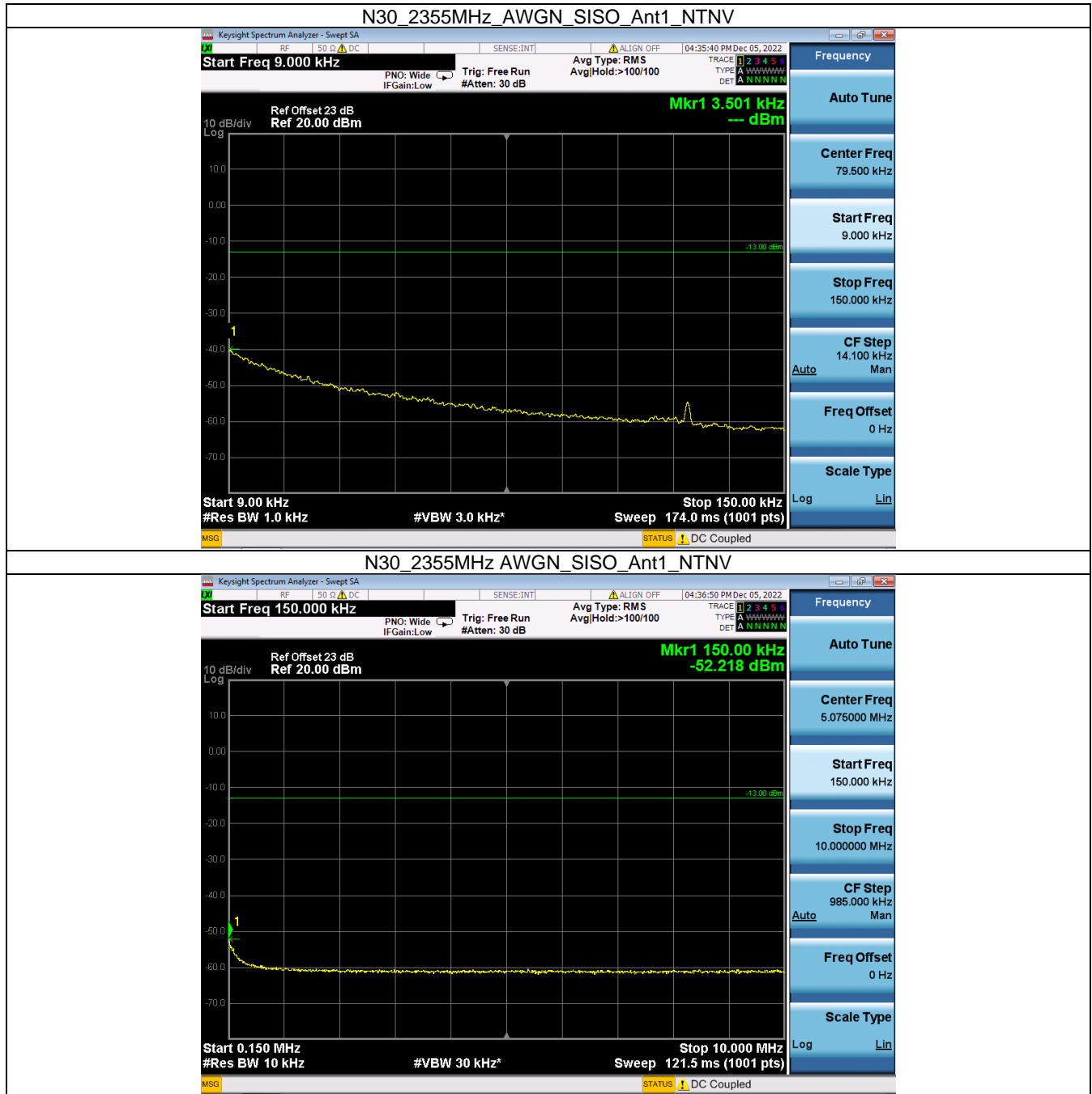
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For 5G NR N30



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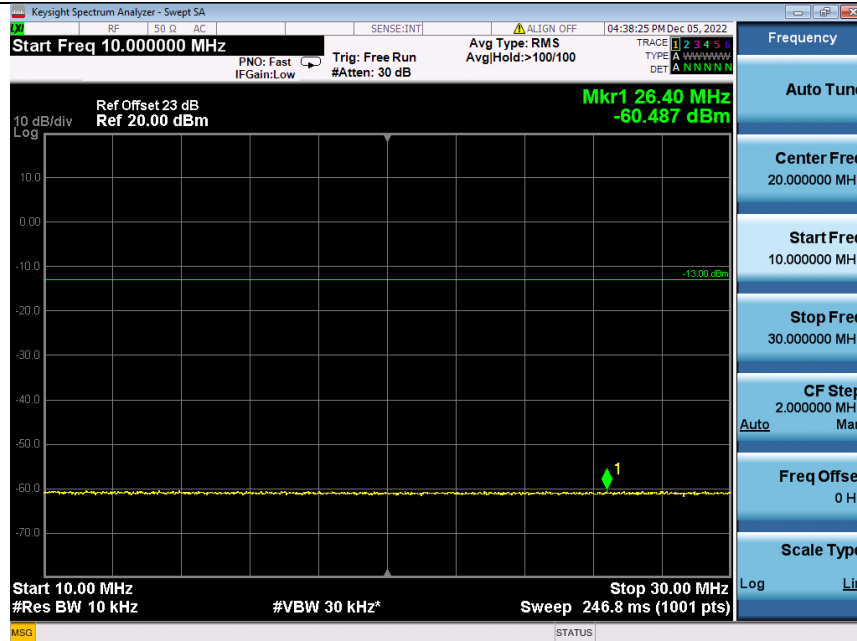
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N30_2355MHz AWGN_SISO_Ant1_NTNV



N30_2355MHz AWGN_SISO_Ant1_NTNV



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7. Frequency stability measurements

7.1 Band30_Ant1

7.1.1 Test Result

Band: 30 / NTNV								
Signal			Temp (°C)	Voltage (VAC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict	
Type	Level (dBm)	Frequency (MHz)						
CW	-0.3	2350.1	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
		2355	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
		2359.9	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 Band30_Ant1

8.1.1 Test Result

For LTE Band 30

AWGN_Low channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
397.0	Horizontal	-66.33	-13	-53.33	pass
596.9	Horizontal	-64.87	-13	-51.87	pass
955.9	Horizontal	-56.53	-13	-43.53	pass
1340.0	Horizontal	-60.54	-13	-47.54	pass
2750.3	Horizontal	-55.98	-13	-42.98	pass
6008.9	Horizontal	-49.14	-13	-36.14	pass
380.8	Vertical	-67.80	-13	-54.80	pass
606.0	Vertical	-66.49	-13	-53.49	pass
969.4	Vertical	-56.78	-13	-43.78	pass
1372.4	Vertical	-61.38	-13	-48.38	pass
2774.3	Vertical	-54.47	-13	-41.47	pass
5986.6	Vertical	-47.36	-13	-34.36	pass

AWGN_Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
378.7	Horizontal	-71.51	-13	-58.51	pass
581.6	Horizontal	-64.57	-13	-51.57	pass
960.5	Horizontal	-61.63	-13	-48.63	pass
1365.9	Horizontal	-60.61	-13	-47.61	pass
2727.4	Horizontal	-54.03	-13	-41.03	pass
6011.1	Horizontal	-51.19	-13	-38.19	pass
371.1	Vertical	-66.44	-13	-53.44	pass
601.8	Vertical	-64.77	-13	-51.77	pass
971.6	Vertical	-60.71	-13	-47.71	pass
1349.6	Vertical	-60.05	-13	-47.05	pass
2735.8	Vertical	-56.07	-13	-43.07	pass
6017.7	Vertical	-50.52	-13	-37.52	pass

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AWGN_High channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
366.4	Horizontal	-70.72	-13	-57.72	pass
567.5	Horizontal	-65.73	-13	-52.73	pass
940.4	Horizontal	-56.23	-13	-43.23	pass
1357.1	Horizontal	-56.89	-13	-43.89	pass
2752.3	Horizontal	-51.25	-13	-38.25	pass
6002.1	Horizontal	-51.52	-13	-38.52	pass
391.4	Vertical	-70.12	-13	-57.12	pass
598.0	Vertical	-62.64	-13	-49.64	pass
935.3	Vertical	-60.68	-13	-47.68	pass
1364.9	Vertical	-61.03	-13	-48.03	pass
2758.6	Vertical	-55.24	-13	-42.24	pass
5976.3	Vertical	-51.02	-13	-38.02	pass

GMSK_Low channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
367.9	Horizontal	-69.25	-13	-56.25	pass
564.5	Horizontal	-61.97	-13	-48.97	pass
942.5	Horizontal	-56.60	-13	-43.60	pass
1340.2	Horizontal	-58.26	-13	-45.26	pass
2742.0	Horizontal	-55.50	-13	-42.50	pass
5987.5	Horizontal	-49.41	-13	-36.41	pass
402.4	Vertical	-71.48	-13	-58.48	pass
569.5	Vertical	-65.88	-13	-52.88	pass
946.7	Vertical	-61.92	-13	-48.92	pass
1373.9	Vertical	-58.46	-13	-45.46	pass
2741.7	Vertical	-55.30	-13	-42.30	pass
6005.9	Vertical	-46.91	-13	-33.91	pass



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GMSK_Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
405.6	Horizontal	-71.15	-13	-58.15	pass
582.7	Horizontal	-61.47	-13	-48.47	pass
974.9	Horizontal	-61.46	-13	-48.46	pass
1351.8	Horizontal	-60.19	-13	-47.19	pass
2761.6	Horizontal	-52.34	-13	-39.34	pass
5987.2	Horizontal	-48.75	-13	-35.75	pass
381.5	Vertical	-71.22	-13	-58.22	pass
567.6	Vertical	-66.60	-13	-53.60	pass
944.0	Vertical	-58.64	-13	-45.64	pass
1355.1	Vertical	-61.32	-13	-48.32	pass
2728.4	Vertical	-54.42	-13	-41.42	pass
5976.7	Vertical	-46.71	-13	-33.71	pass

GMSK_High channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization			
364.3	Horizontal	-70.88	-13	-57.88	pass
570.8	Horizontal	-65.73	-13	-52.73	pass
973.2	Horizontal	-59.70	-13	-46.70	pass
1329.6	Horizontal	-56.12	-13	-43.12	pass
2741.4	Horizontal	-53.90	-13	-40.90	pass
6014.3	Horizontal	-51.64	-13	-38.64	pass
363.9	Vertical	-69.43	-13	-56.43	pass
572.0	Vertical	-66.28	-13	-53.28	pass
959.5	Vertical	-59.24	-13	-46.24	pass
1334.9	Vertical	-60.99	-13	-47.99	pass
2745.0	Vertical	-53.73	-13	-40.73	pass
6011.7	Vertical	-47.78	-13	-34.78	pass



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For 5GNR N30

AWGN Middle channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result
	MHz	polarization	dBm	dB	
381.8	Horizontal	-71.39	-13	-58.39	pass
564.2	Horizontal	-66.07	-13	-53.07	pass
940.9	Horizontal	-57.70	-13	-44.70	pass
1340.5	Horizontal	-61.67	-13	-48.67	pass
2763.5	Horizontal	-52.02	-13	-39.02	pass
5998.8	Horizontal	-48.94	-13	-35.94	pass
397.9	Vertical	-69.35	-13	-56.35	pass
577.9	Vertical	-62.87	-13	-49.87	pass
942.1	Vertical	-58.25	-13	-45.25	pass
1330.8	Vertical	-59.81	-13	-46.81	pass
2758.3	Vertical	-57.00	-13	-44.00	pass
5986.6	Vertical	-48.82	-13	-35.82	pass

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