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# Appendix for KSCR2211002212AT-LTE-Band66+5GNR-N66

- 1. Out of band rejection
- 1.1 Band66
- 1.1.1 Test Result

	Band: 66 / NTNV									
Signal	Signal Sweep Frequency Range (MHz) TX Type ANT F0 (MHz) FL (MHz) FH (MHz) Verdict									
CW	1930-2380	SISO	1	2132.500	2109.550	2201.350	Pass			



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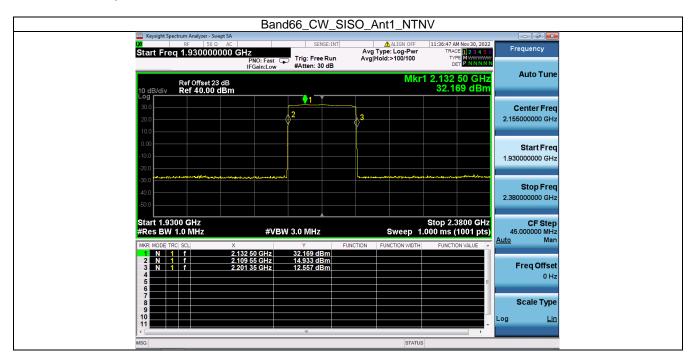
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### 1.1.2 Test Graph





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### 2. AGC threshold

#### 2.1 Band66

### 2.1.1 Test Result

	Band: 66 / NTNV								
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict				
AWGN	2132.5	SISO	1	0.20	Pass				
GMSK	2132.5	SISO	1	0.20	Pass				



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- 3. Input-versus-output signal comparison
- 3.1 Band66\_OBW
- 3.1.1 Test Result

#### For LTE Band 66

	Band: 66 / NTNV											
	Signal		TV Tuno	ANT	99% OB'	W (MHz)	Verdict					
Type	Level (dBm)	Frequency (MHz)	TX Type	ANI	Output	Input	verdict					
AWGN	0.2	2132.5	SISO	1	4.6280	4.6112	Pass					
AWGN	3.2	2132.5	SISO	1	4.6459	4.6117	Pass					
GMSK	0.2	2132.5	SISO	1	0.18150	0.18130	Pass					
GIVISK	3.2	2132.5	SISO	1	0.18187	0.18212	Pass					

#### For 5GNR N66

			N66 / NTNV				
	Signal			ANT	99% OB	W (MHz)	Verdict
Type	Level (dBm)	Frequency (MHz)	TX Type	AINT	Output	Input	verdict
AWGN	0.2	2155	SISO	1	41.644	41.581	Pass
AWGN	3.2	2155	SISO	1	41.625	41.631	Pass



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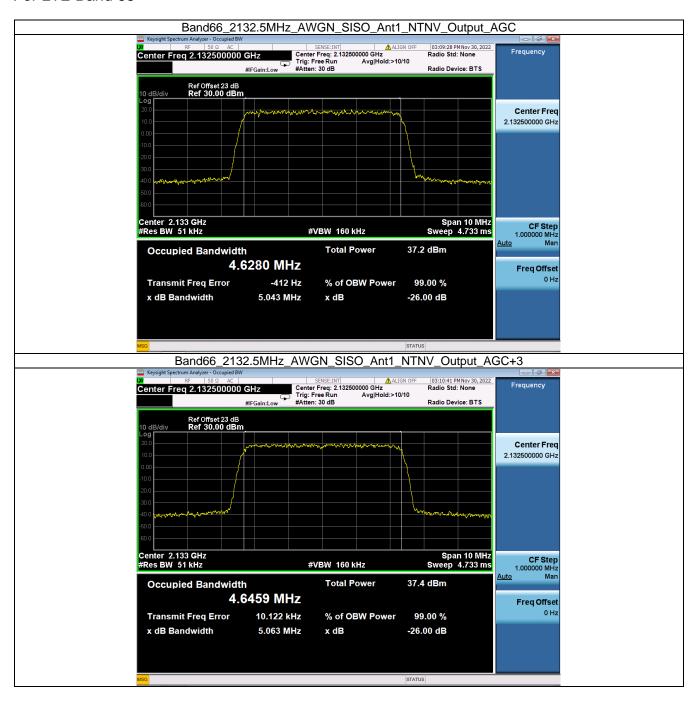
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### 3.1.2 Test Graph

#### For LTE Band 66





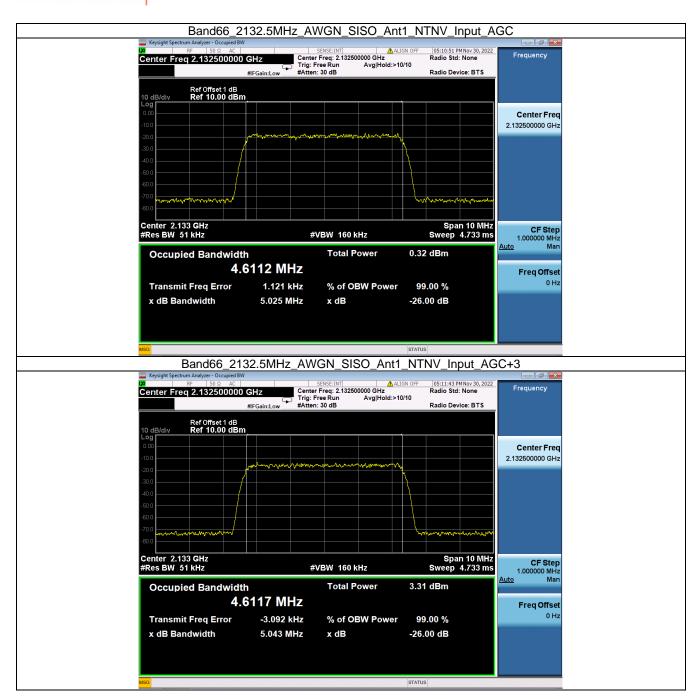
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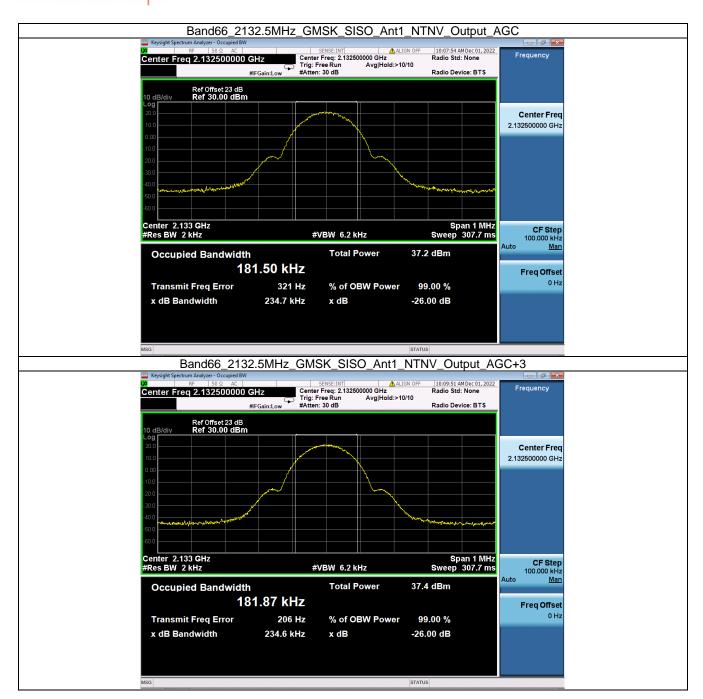
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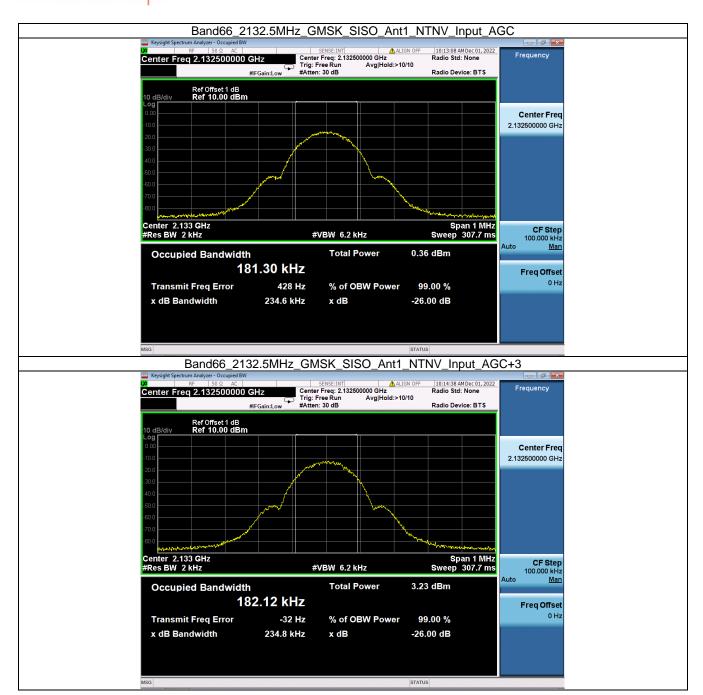
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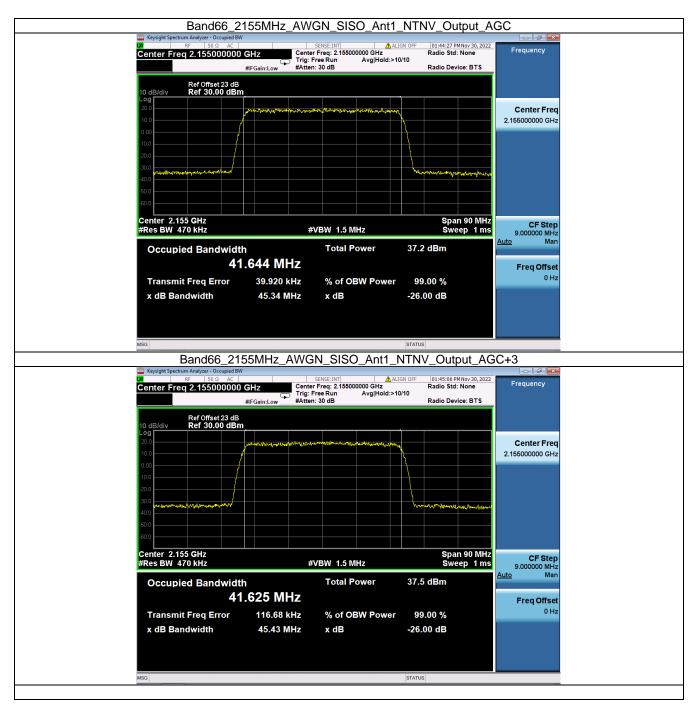
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#### For 5GNR N66





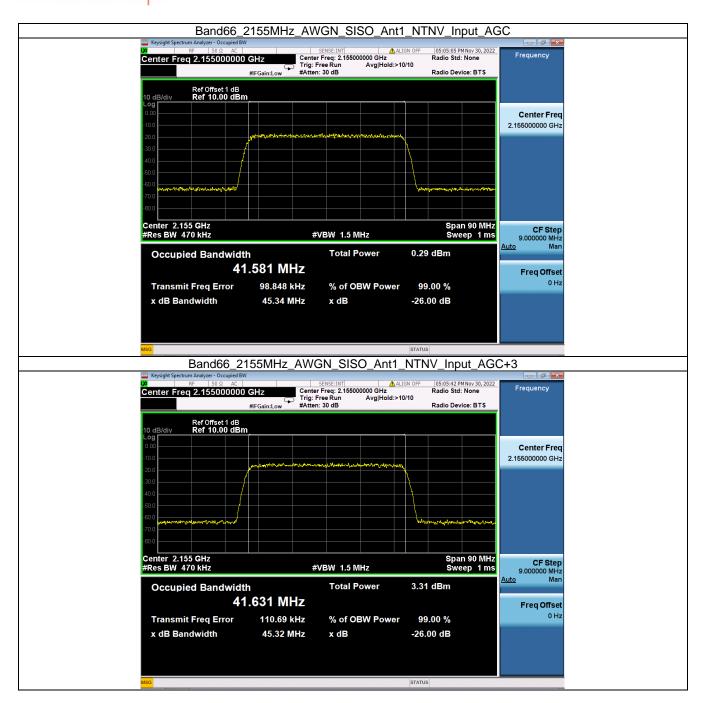
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### 3.2 Band66\_EBW

#### 3.2.1 Test Result

#### For LTE Band 66

			Band: 66 / NTN	IV		Band: 66 / NTNV											
	Signal		TV T	A N I T	26dB EB	W (MHz)	\/ E (										
Type	Level (dBm)	Frequency (MHz)	TX Type	ANT	Output	Input	Verdict										
AVACAL	0.2	2132.5	SISO	1	5.043	5.025	Pass										
AWGN	3.2	2132.5	SISO	1	5.063	5.043	Pass										
GMSK	0.2	2132.5	SISO	1	0.2347	0.2346	Pass										
GIVISK	3.2	2132.5	SISO	1	0.2346	0.2348	Pass										

#### For 5GNR N66

	N66 / NTNV										
	Signal		TV Tupo	ANT	26dB EB	W (MHz)	Verdict				
Type	Level (dBm)	Frequency (MHz)	TX Type	AINT	Output	Input	verdict				
AWGN	0.2	2155	SISO	1	45.340	45.340	Pass				
AWGN	3.2	2155	SISO	1	45.430	45.320	Pass				



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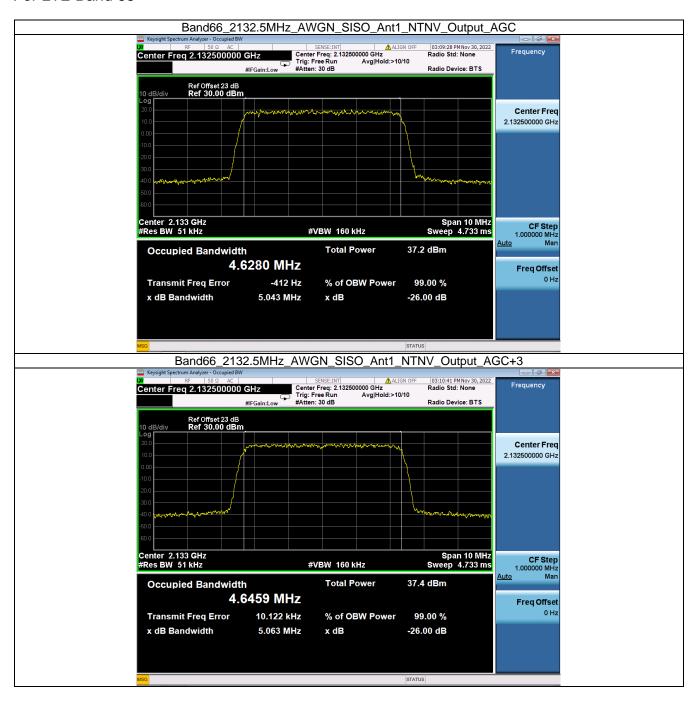
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### 3.2.2 Test Graph

#### For LTE Band 66





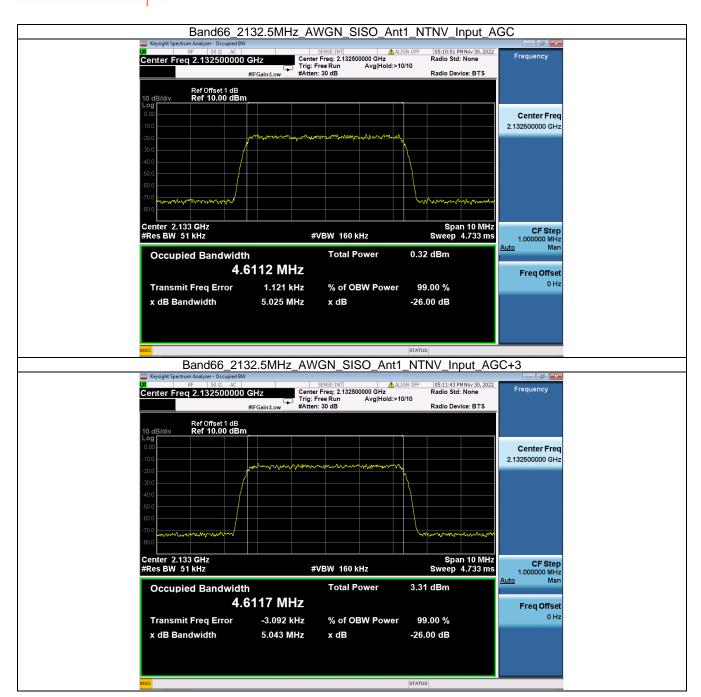
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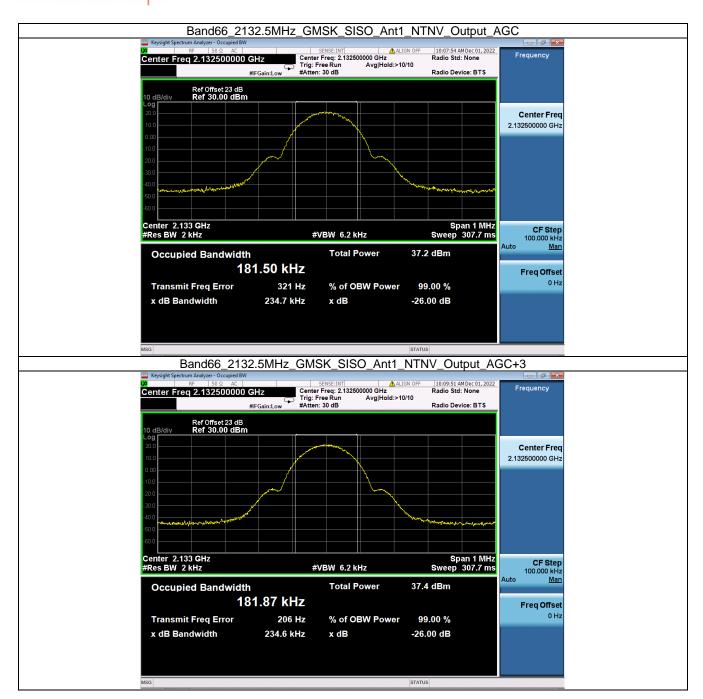
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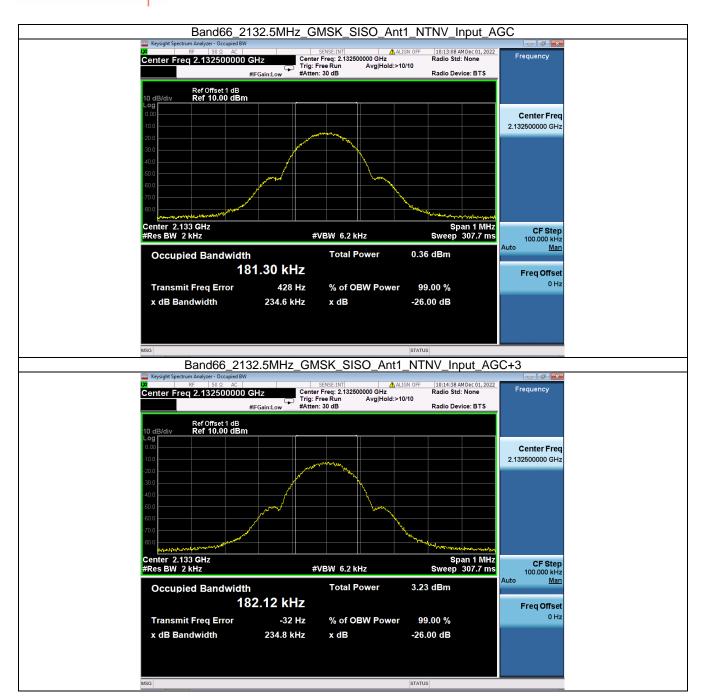
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#### For 5GNR N66





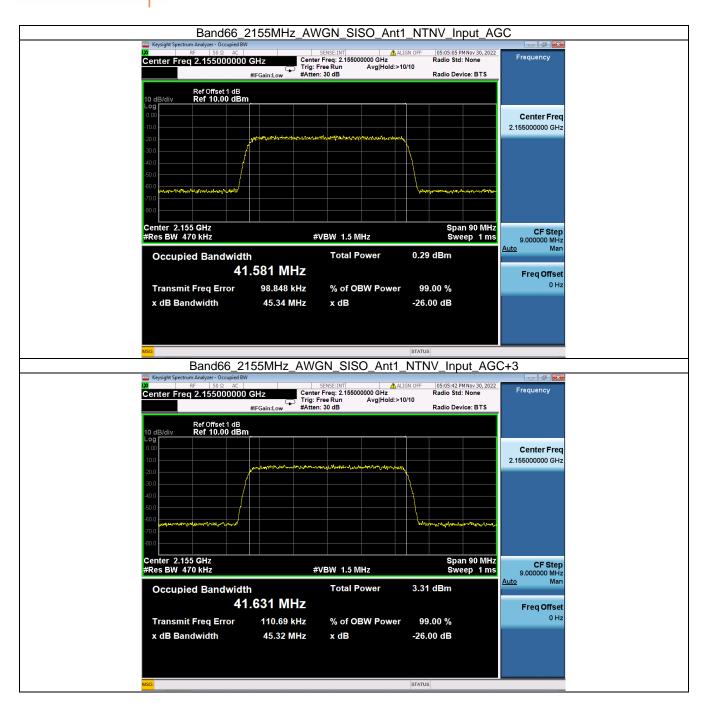
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- 4. Input/output power and amplifier/booster gain
- 4.1 Band66\_ERP
- 4.1.1 Test Result

#### For LTE Band66

				Band	: 66 / NTN	V				
	Sign	al	TX Type	ANT	Conducted Power (dBm/MHz)		EIRP (dBm/MHz)		Booster Gain	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit	(dB)	
AWGN	0.2	2132.5	SISO	1	30.40	-6.88	42.40	<=60	37.28	Pass
AWGIN	3.2	2132.5	SISO	1	30.53	-3.87	42.53	<=60	/	Pass
GMSK	0.2	2132.5	SISO	1	37.14	0.03	49.14	<=60	37.11	Pass
GIVISK	3.2	2132.5	SISO	1	37.35	3.04	49.35	<=60	/	Pass

			2110MHz	z-2200MHz	/ NTNV		
Operation Frequency		Signal	Signal Lavol	Input Power	Total Output Power (dBm)	EIRP (dBm)	Gain
Band	(MHz) Signal Signal Level		Signal Level	(dBm)	SISO	SISO	(dB)
	2132.5	AWGN	Pre-AGC	0.2	37.39	49.39	/
2110MHz-	2132.3	AWGN	3dB Above AGC	3.2	37.52	49.52	/
2200MHz	2200MHz 2132.5		Pre-AGC	0.2	37.14	49.14	/
	2132.3	GMSK	3dB Above AGC	3.2	37.35	49.35	/



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#### For 5GNR N66

	N66 / NTNV											
	Sign	al	TX Type	ANT	Conducte (dBm/		EIRP (dE	Bm/MHz)	Booster Gain	Verdict		
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit	(dB)			
AWGN	0.2	2155	SISO	1	20.61	-16.43	32.61	<=60	37.04	Pass		
AWGIN	3.2	2155	SISO	1	20.87	-13.41	32.87	<=60	/	Pass		

	2110MHz-2200MHz / NTNV										
Operation	Frequency	Signal	Signal Lavol	Input Power	Total Output Power (dBm)	EIRP (dBm)	Gain				
Band	(MHz)	Signal	Signal Level	(dBm)	SISO	SISO	(dB)				
2110MHz-	2155	AVACNI	Pre-AGC	0.2	37.14	49.14	/				
2200MHz	2155 I AWGN	3dB Above AGC	3.2	37.40	49.40	/					



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### 4.1.2 Test Graph

#### For LTE Band66





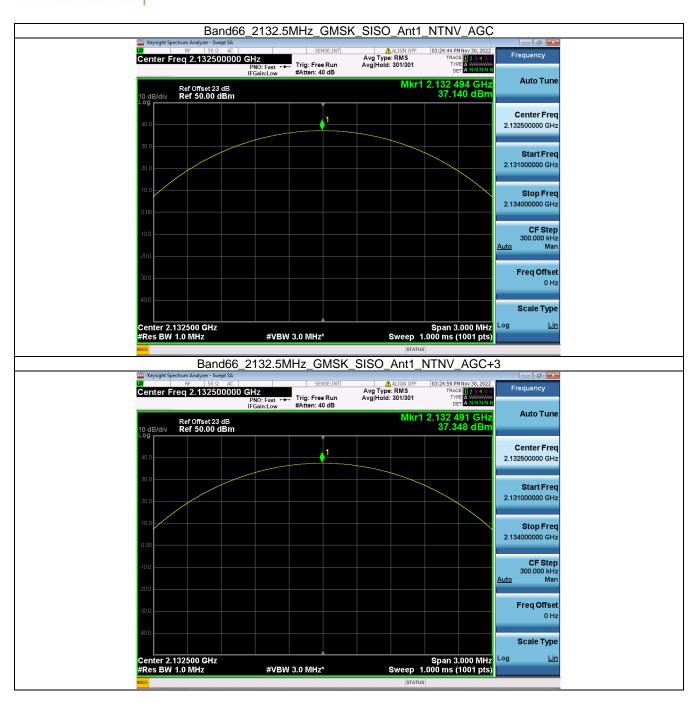
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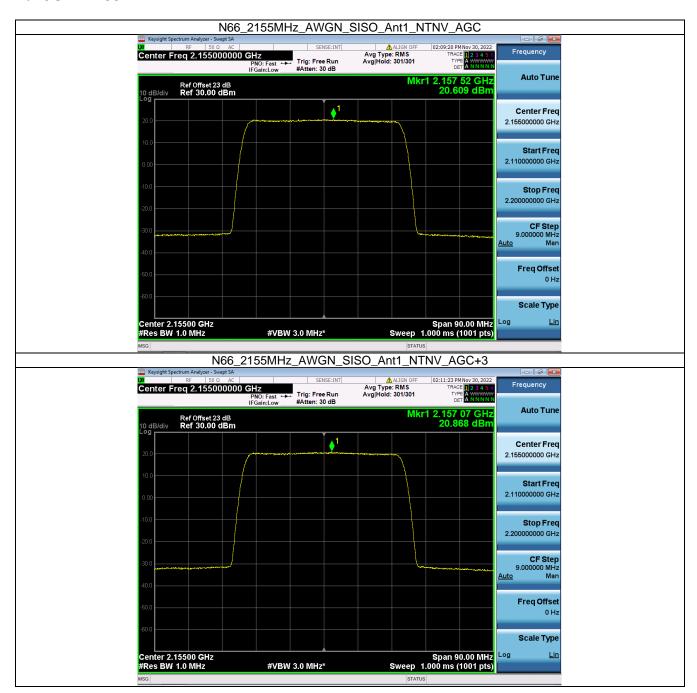
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#### For 5GNR N66





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### 4.2 Band66\_PAPR

#### 4.2.1 Test Result

#### For LTE Band66

		В	and: 12 / NTNV	1			
	Signal		TV Type	ANT	PAPF	R (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)	TX Type	ANI	Result	Limit	verdict
AWGN	0.2	2132.5	SISO	1	8.36	<=13	Pass
AWGN	3.2	2132.5	SISO	1	8.35	<=13	Pass
CMCK	0.2	2132.5	SISO	1	0.77	<=13	Pass
GMSK	3.2	2132.5	SISO	1	0.72	<=13	Pass

#### For 5GNR N66

	N66 / NTNV										
	Signal		TX Type	ANT	PAPF	R (dB)	Verdict				
Type	Level (dBm)	Frequency (MHz)	1 × 1 ype	ANI	Result	Limit	verdict				
AWGN	0.2	2155	SISO	1	8.39	<=13	Pass				
AWGN	3.2	2155	SISO	1	8.38	<=13	Pass				



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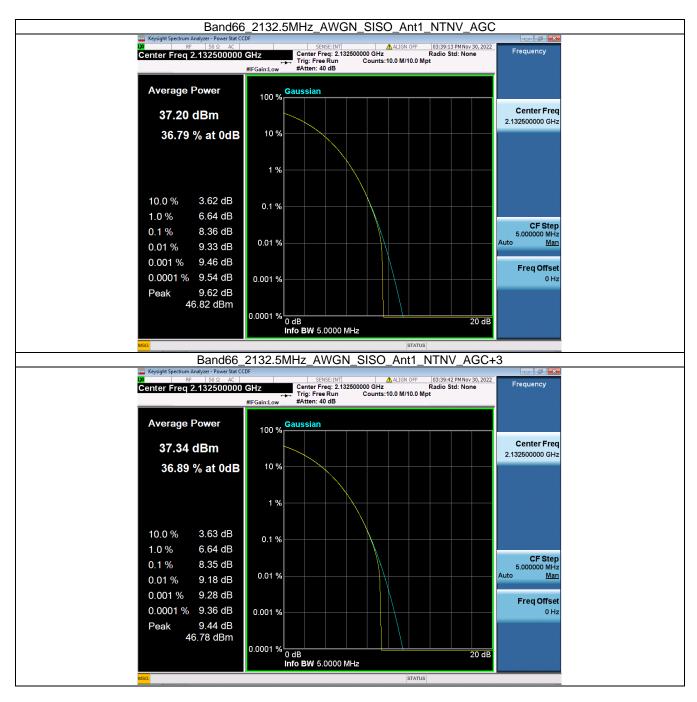
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### 4.2.2 Test Graph

#### For LTE Band66





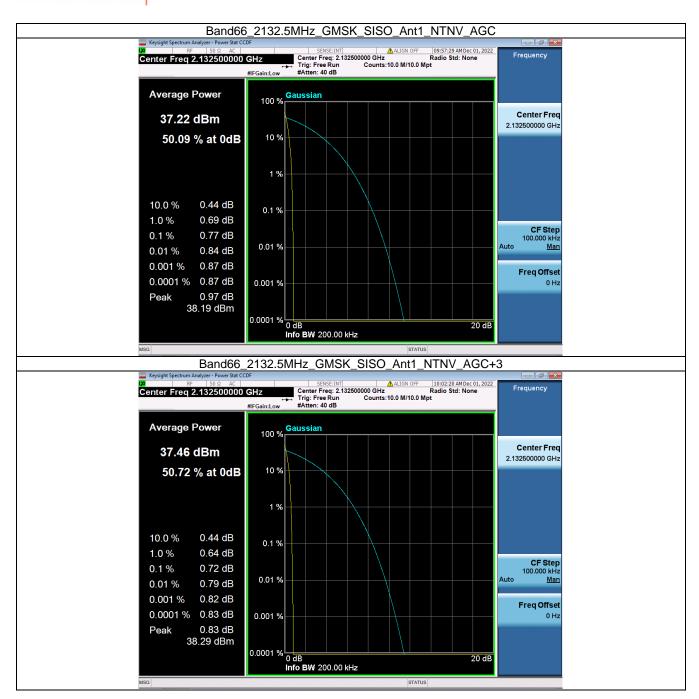
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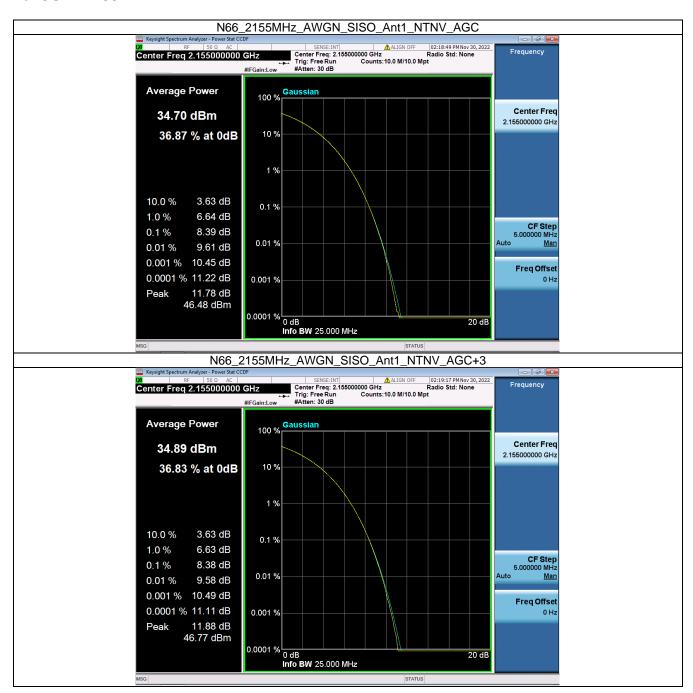
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#### For 5GNR N66





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

#### 5.1 Band66

#### 5.1.1 Test Result

#### For LTE Band 66

Band: 66 / NTNV										
Signal				Channal	TV Tuno	ANT	OOB (dBm)		\/ordiot	
Input	Type	Level (dBm)	Frequency (MHz)	Channel	TX Type	ANI	Result	Limit	Verdict	
Two	AWGN	0.2	2112.5	LCH	SISO	1	-45.607	Refer To Test Graph	Pass	
		3.2	2112.5	LCH	SISO	1	-45.637	Refer To Test Graph	Pass	
One	AWGN	0.2	2112.5	LCH	SISO	1	-45.710	Refer To Test Graph	Pass	
פֿוּ		3.2	2112.5	LCH	SISO	1	-45.663	Refer To Test Graph	Pass	
Two	AWGN	0.2	2197.5	HCH	SISO	1	-45.881	Refer To Test Graph	Pass	
TWO		3.2	2197.5	HCH	SISO	1	-45.793	Refer To Test Graph	Pass	
One	AWGN	0.2	2197.5	HCH	SISO	1	-45.878	Refer To Test Graph	Pass	
פֿוּ		3.2	2197.5	HCH	SISO	1	-45.895	Refer To Test Graph	Pass	
Two	GMSK	0.2	2110.1	LCH	SISO	1	-57.596	Refer To Test Graph	Pass	
TWO		3.2	2110.1	LCH	SISO	1	-57.650	Refer To Test Graph	Pass	
One	GMSK	0.2	2110.1	LCH	SISO	1	-57.818	Refer To Test Graph	Pass	
פֿ		3.2	2110.1	LCH	SISO	1	-57.926	Refer To Test Graph	Pass	
Two	GMSK	0.2	2199.9	HCH	SISO	1	-58.291	Refer To Test Graph	Pass	
I WO		3.2	2199.9	HCH	SISO	1	-58.339	Refer To Test Graph	Pass	
One	GMSK	0.2	2199.9	HCH	SISO	1	-58.220	Refer To Test Graph	Pass	
One		3.2	2199.9	HCH	SISO	1	-58.209	Refer To Test Graph	Pass	

#### For 5GNR N66

N66 / NTNV										
Signal				Channel	TV Type	ANT	OOB (dBm)		Verdict	
Input	Type	Level (dBm)	Frequency (MHz)	Chamilei	TX Type	ANI	Result	Limit	verdict	
Two	AWGN	0.2	2132.5	LCH	SISO	1	-34.301	Refer To Test Graph	Pass	
		3.2	2132.5	LCH	SISO	1	-34.154	Refer To Test Graph	Pass	
One	AWGN	0.2	2132.5	LCH	SISO	1	-33.888	Refer To Test Graph	Pass	
		3.2	2132.5	LCH	SISO	1	-33.985	Refer To Test Graph	Pass	
Tura	AWGN	0.2	2177.5	HCH	SISO	1	-34.888	Refer To Test Graph	Pass	
Two		3.2	2177.5	HCH	SISO	1	-34.947	Refer To Test Graph	Pass	
One	AWGN	0.2	2177.5	HCH	SISO	1	-35.261	Refer To Test Graph	Pass	
		3.2	2177.5	HCH	SISO	1	-35.131	Refer To Test Graph	Pass	



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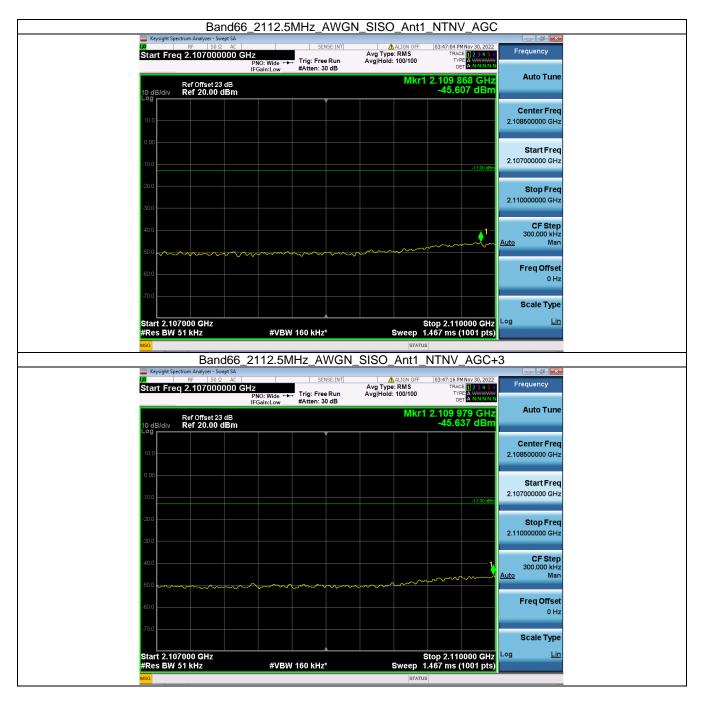
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### 5.1.2 Test Graph

#### For LTE Band 66





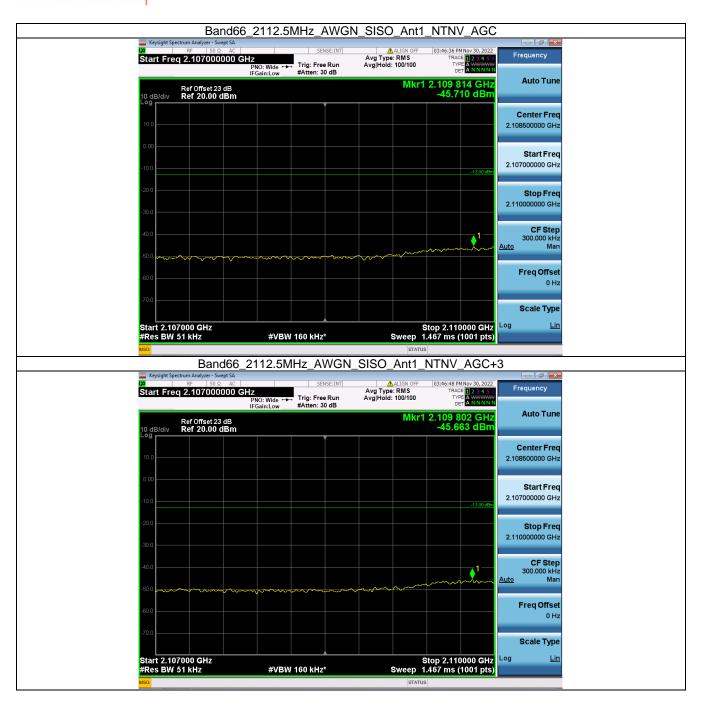
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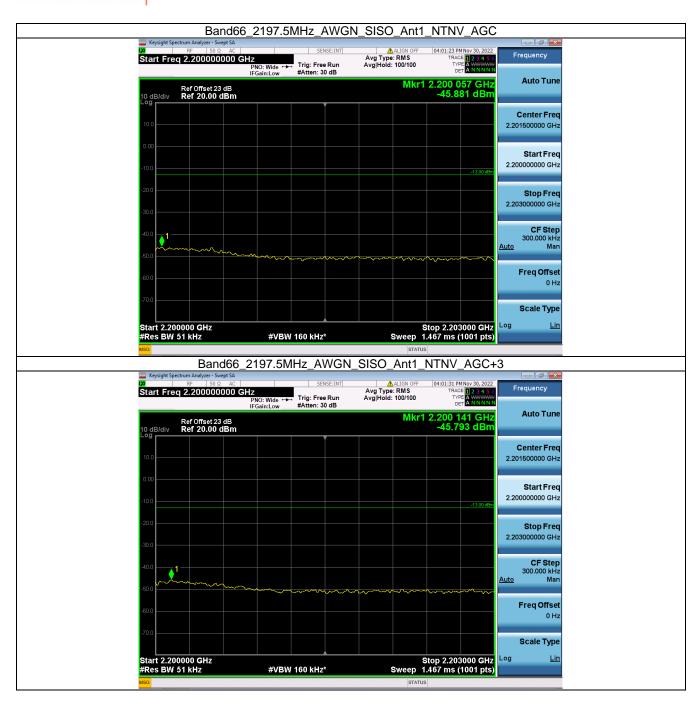
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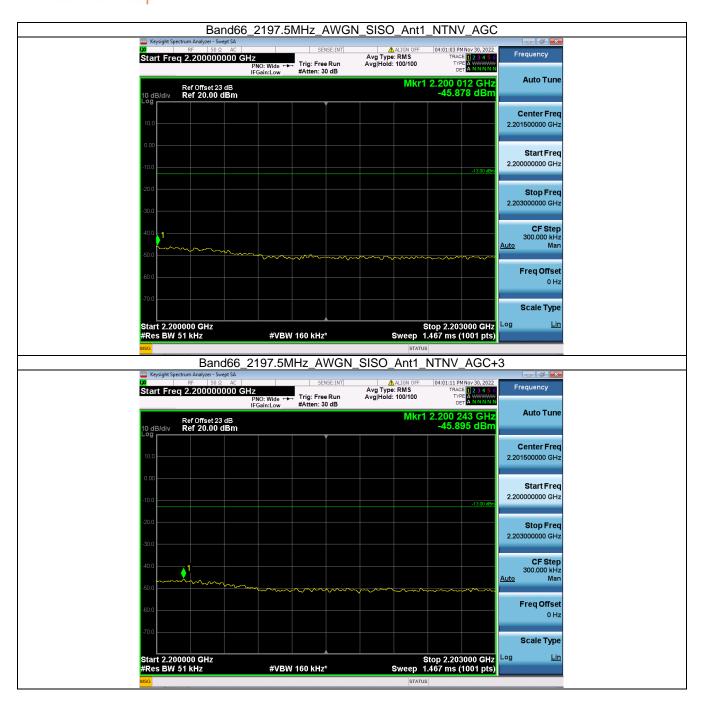
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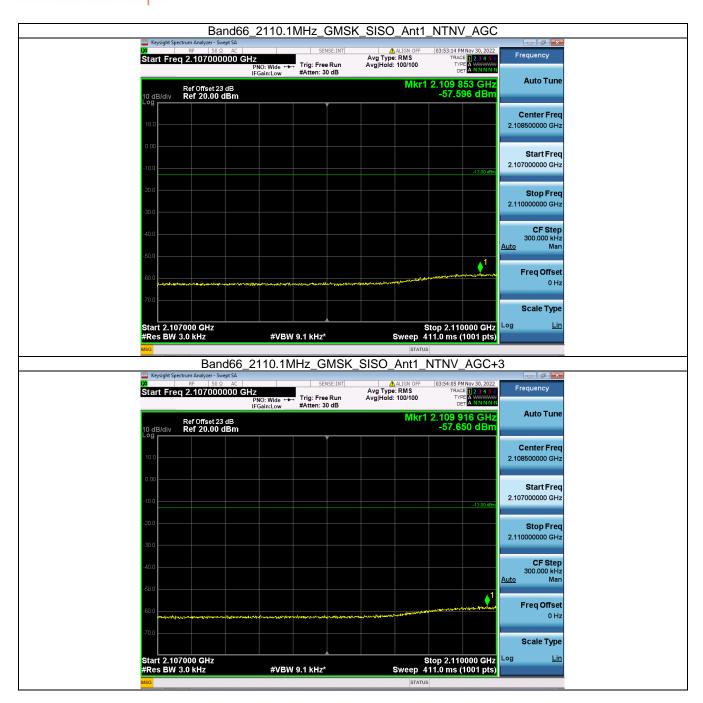
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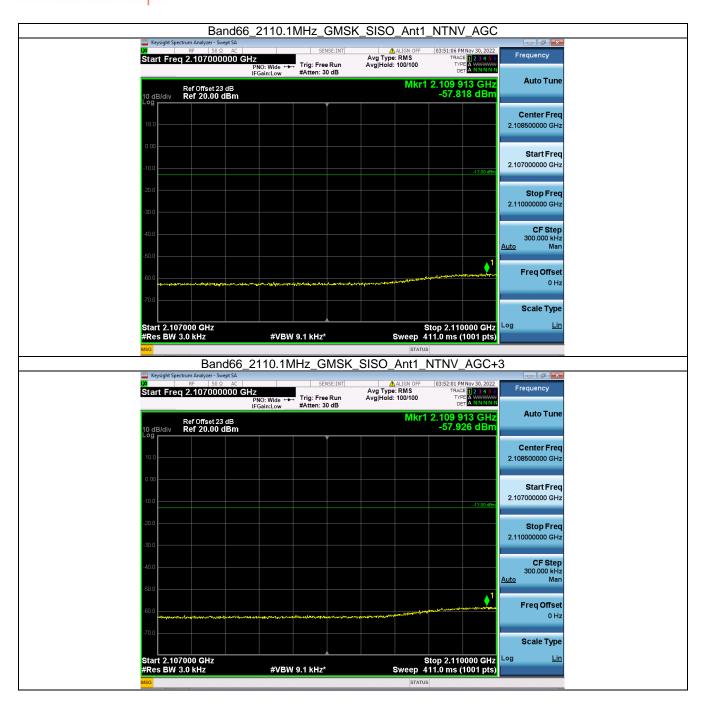
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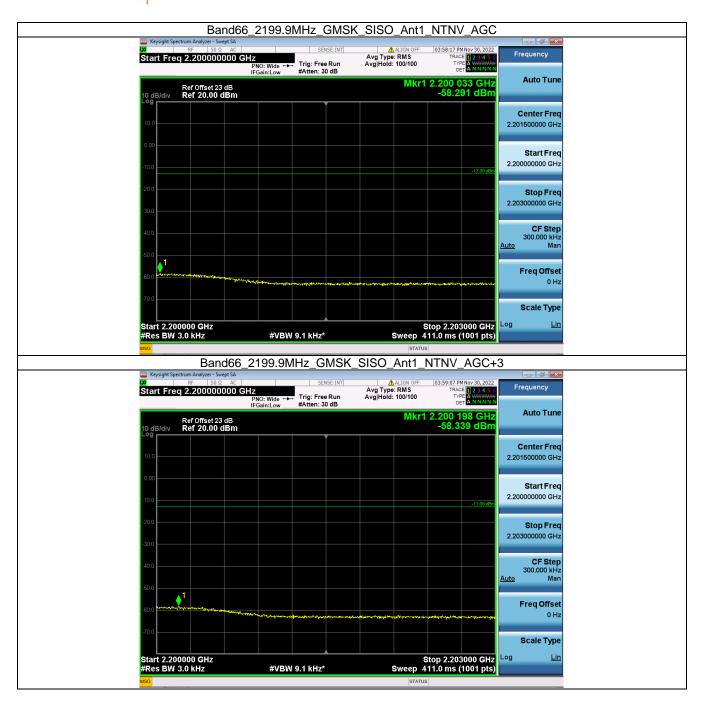
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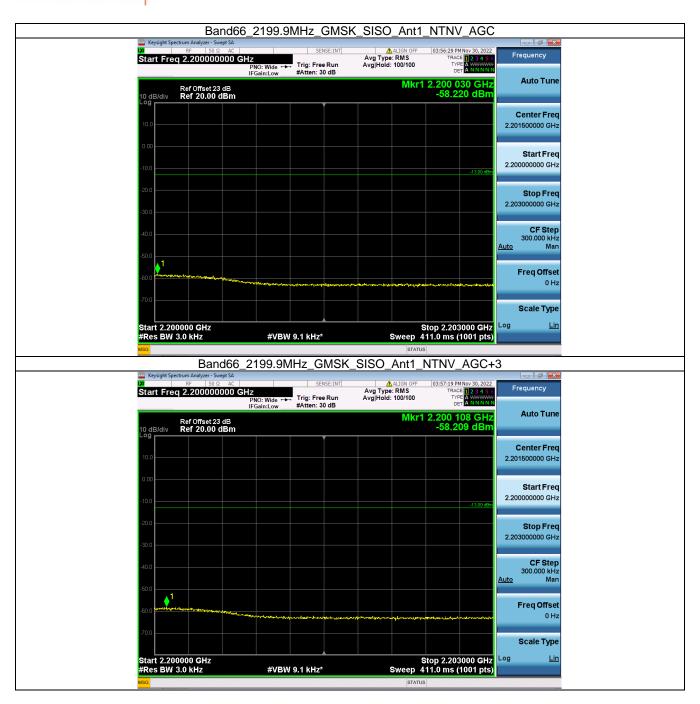
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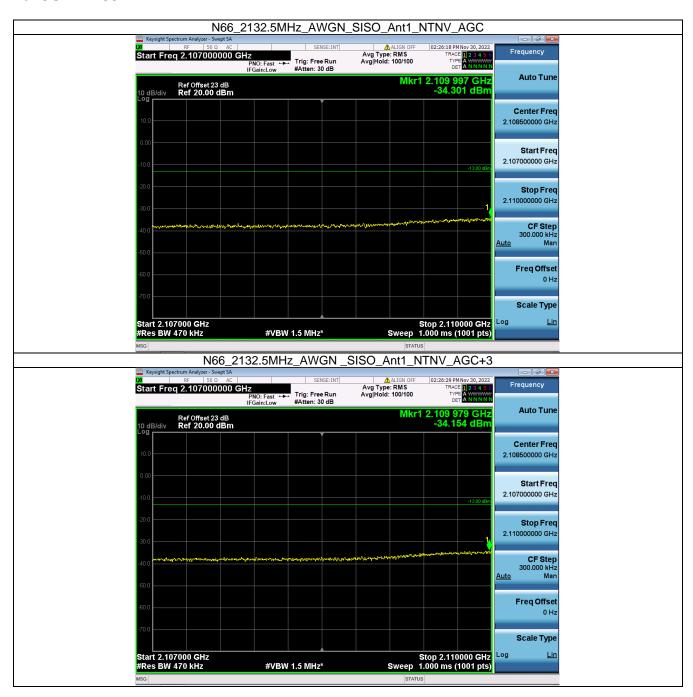
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#### For 5GNR N66





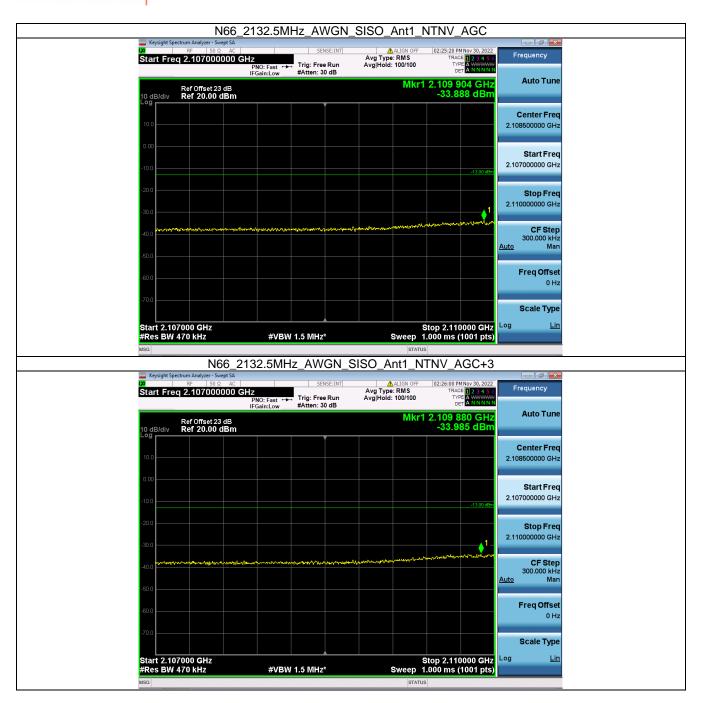
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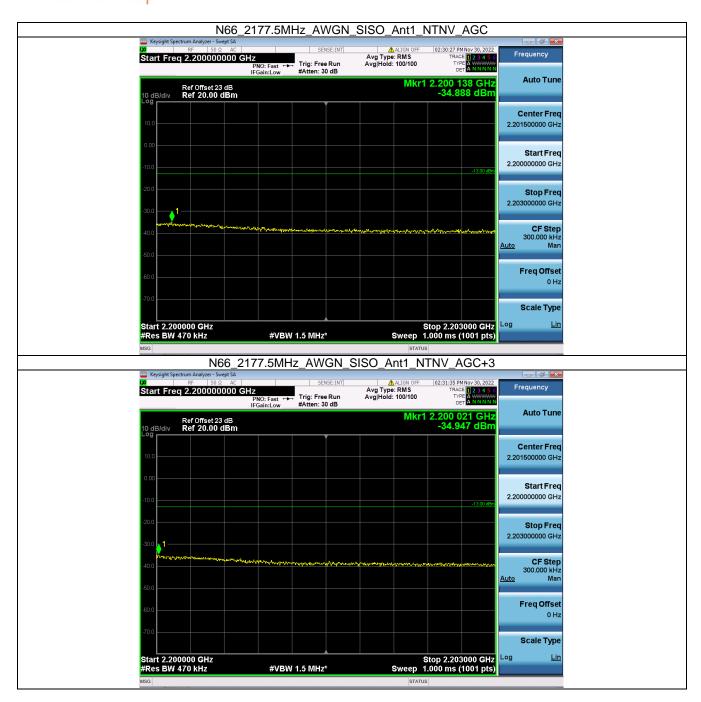
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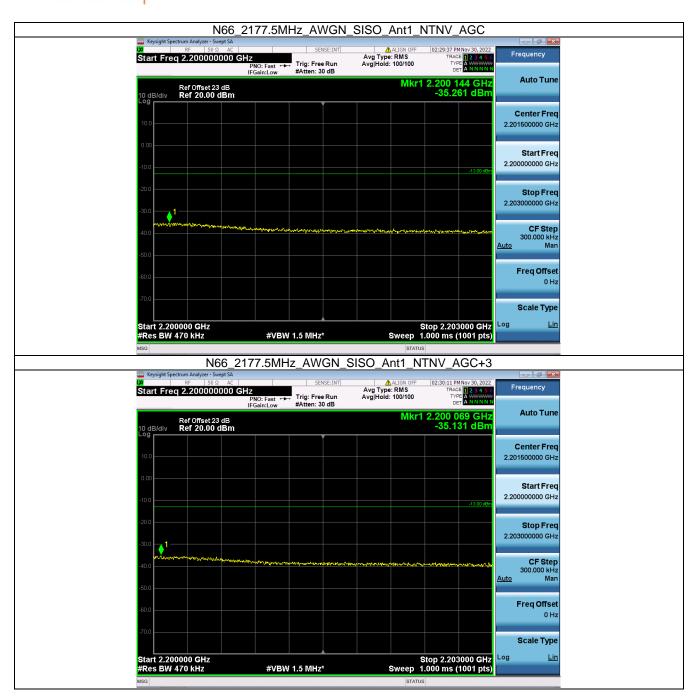
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## 6. Spurious emissions

6.1 Band66

6.1.1 Test Result

For LTE Band 66

	Band: 66 / NTNV									
	Signal		Signal		Signal		Observation TV Trans	ANT	SE (dBm)	\
Type	Level (dBm)	Frequency (MHz)	Channel	TX Type	ANI	Result Limit	Verdict			
		2112.5	LCH	SISO	1	Refer To Test Graph	Pass			
AWGN	0.2	2155	MCH	SISO	1	Refer To Test Graph	Pass			
		2197.5	HCH	SISO	1	Refer To Test Graph	Pass			
		2110.1	LCH	SISO	1	Refer To Test Graph	Pass			
GMSK	0.2	2155	MCH	SISO	1	Refer To Test Graph	Pass			
		2199.9	HCH	SISO	1	Refer To Test Graph	Pass			

#### For 5GNR N66

	N66 / NTNV								
	Signa	al	Channel	TX Type	ANT	SE (dBm)	Verdict		
Туре	Level (dBm)	Frequency (MHz)	Channel	1 × Type	ANI	Result Limit	Verdict		
		2132.5	LCH	SISO	1	Refer To Test Graph	Pass		
AWGN	0.2	2155	MCH	SISO	1	Refer To Test Graph	Pass		
		2177.5	HCH	SISO	1	Refer To Test Graph	Pass		



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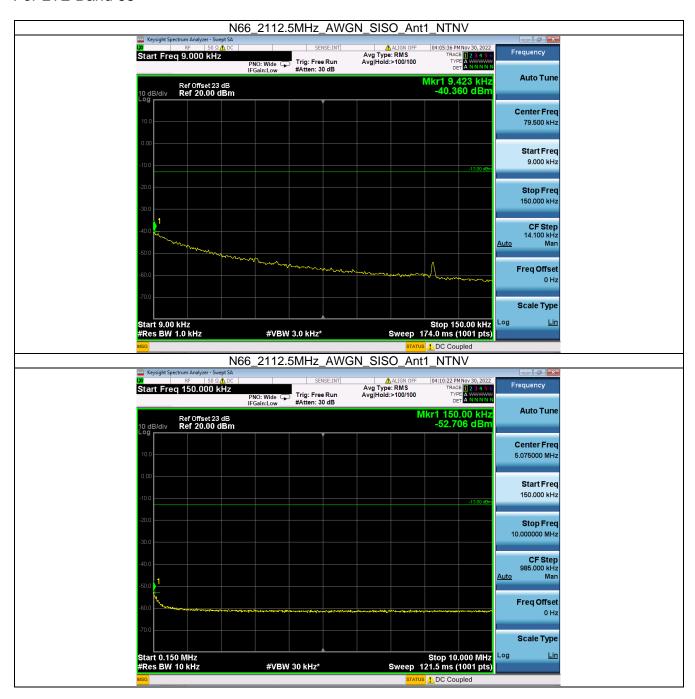
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#### 6.1.2 Test Graph

#### For LTE Band 66





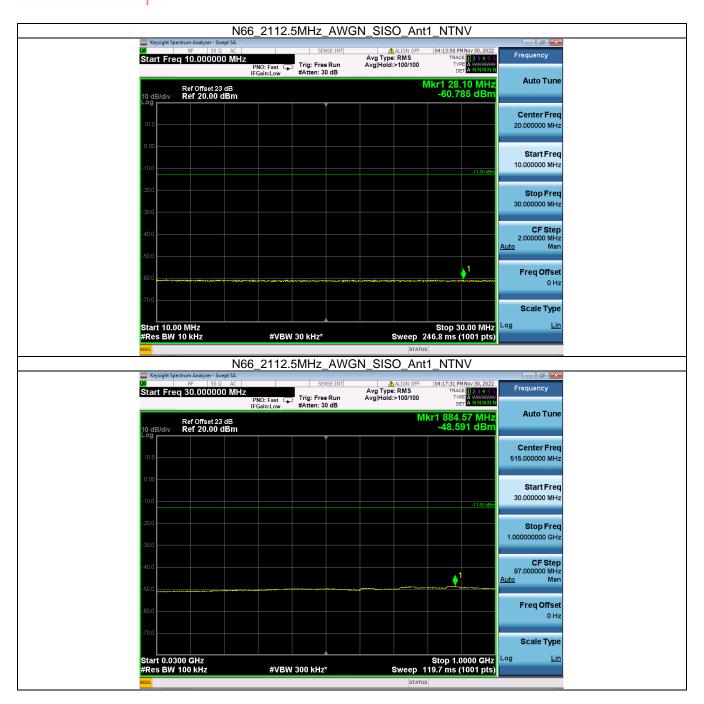
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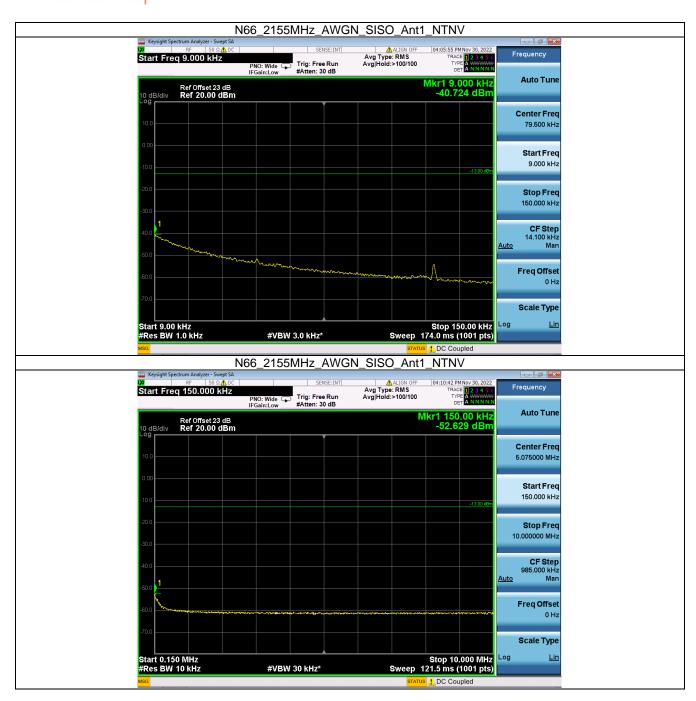


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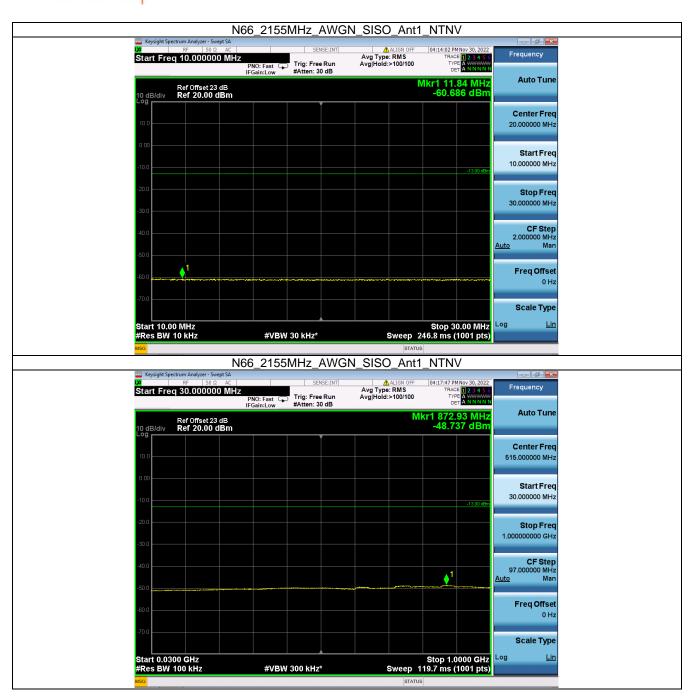
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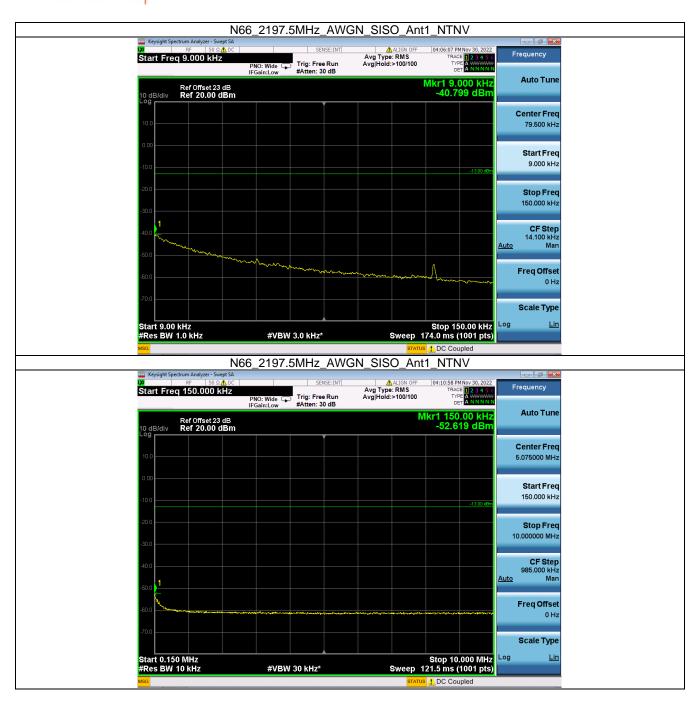
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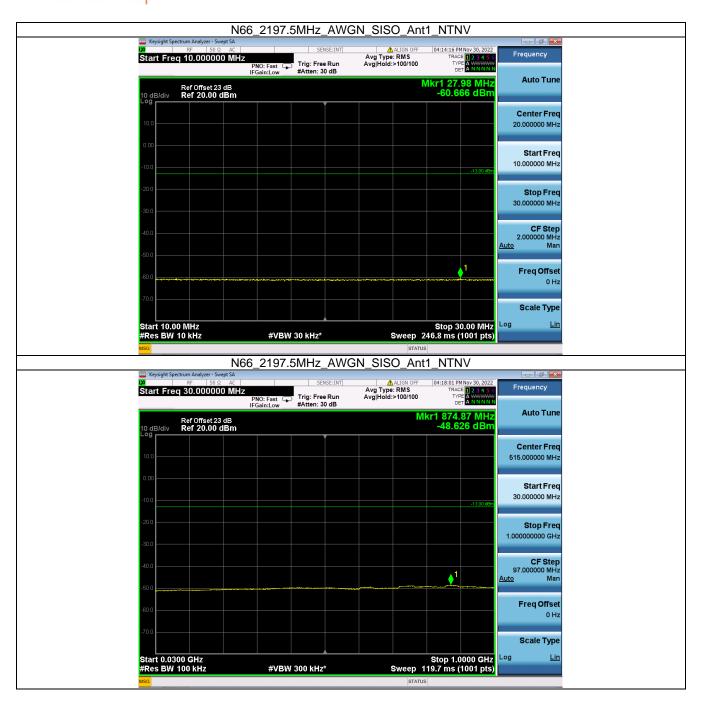
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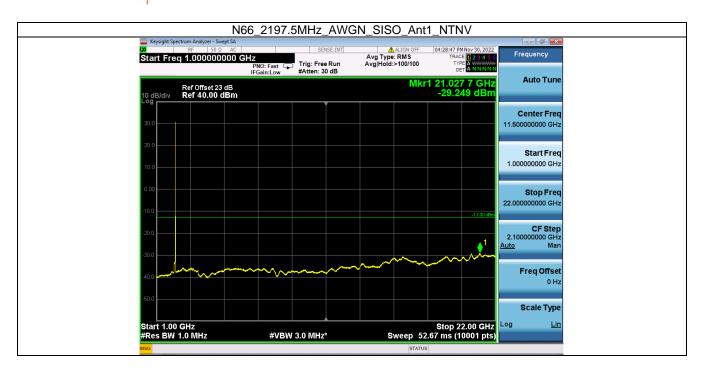
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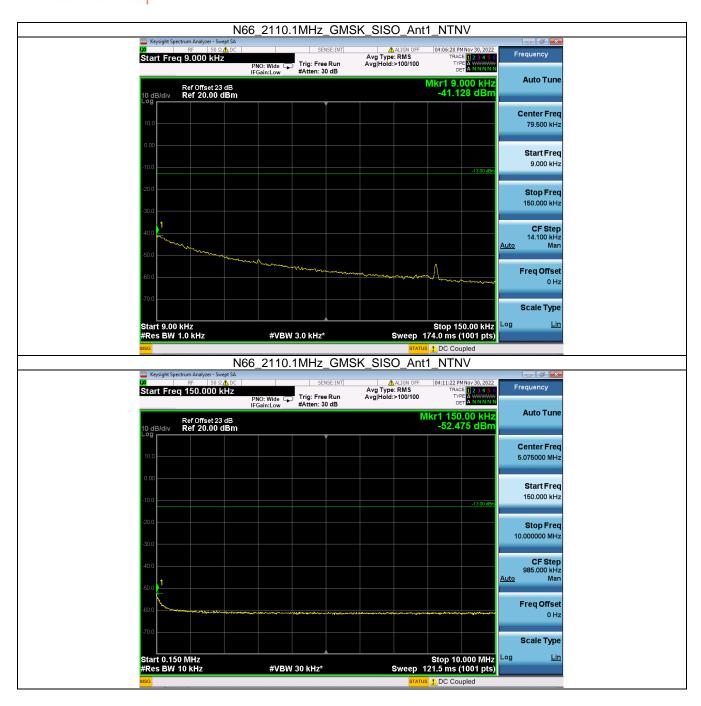
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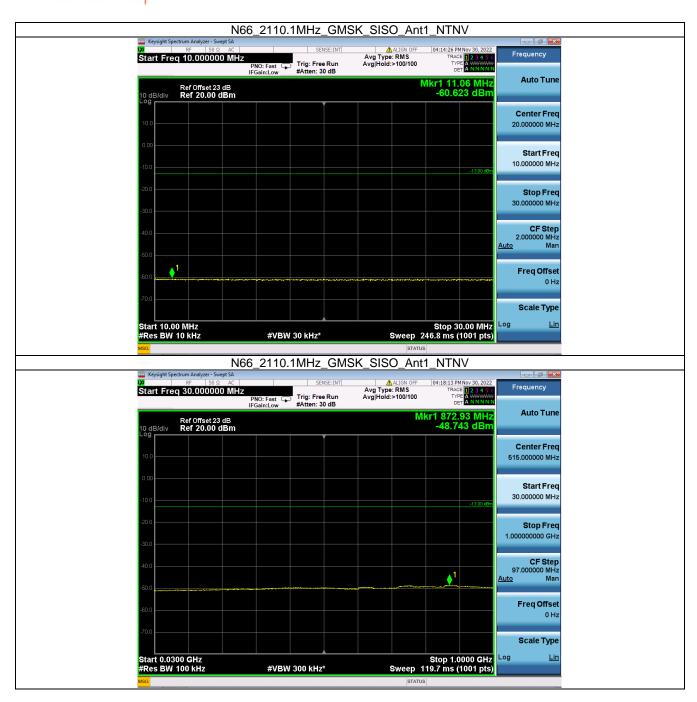
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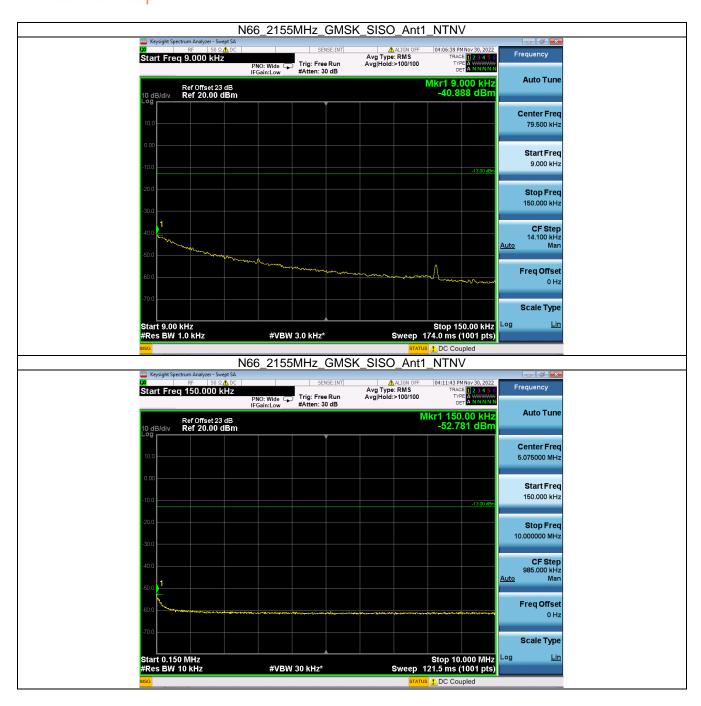
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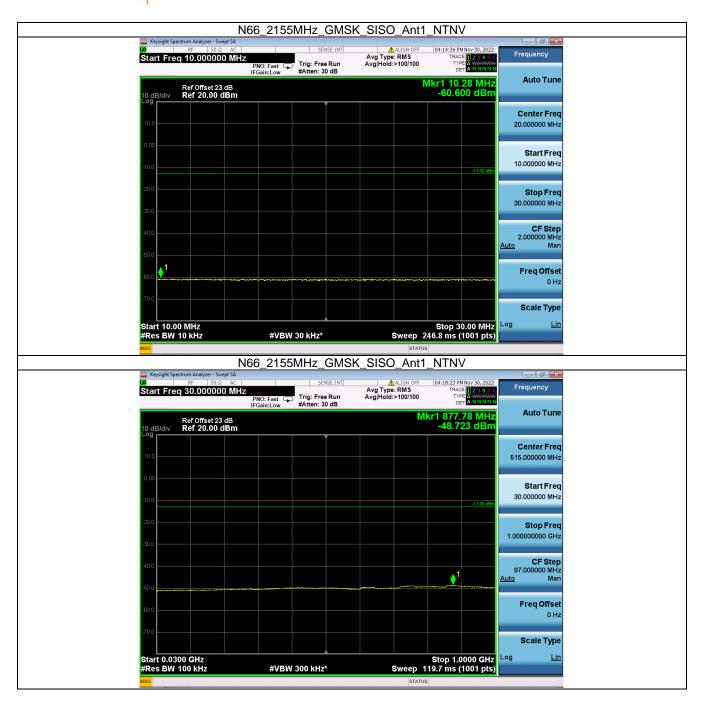
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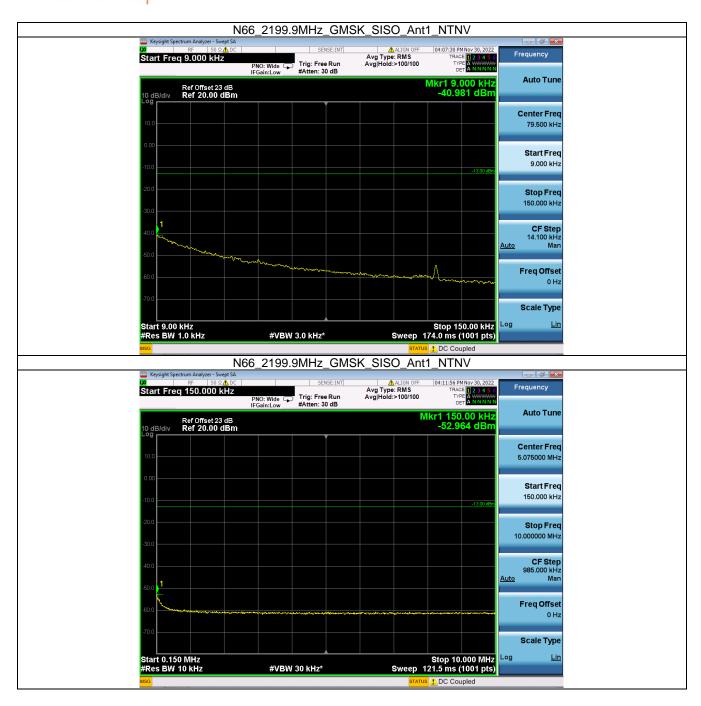
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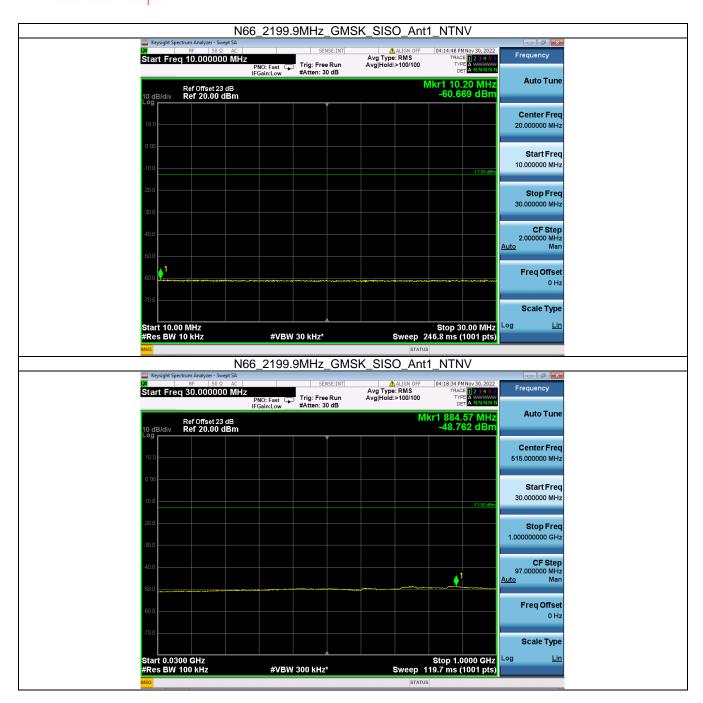
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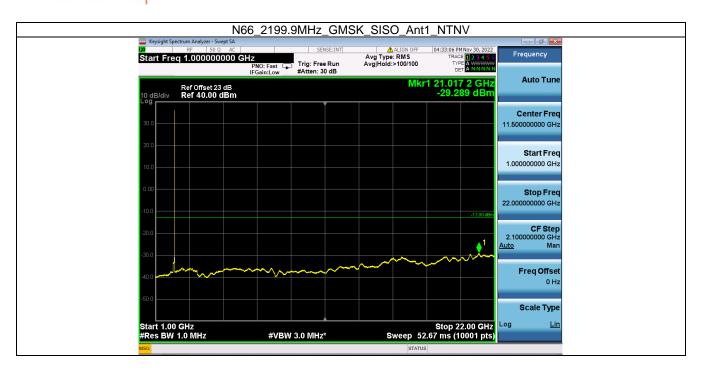
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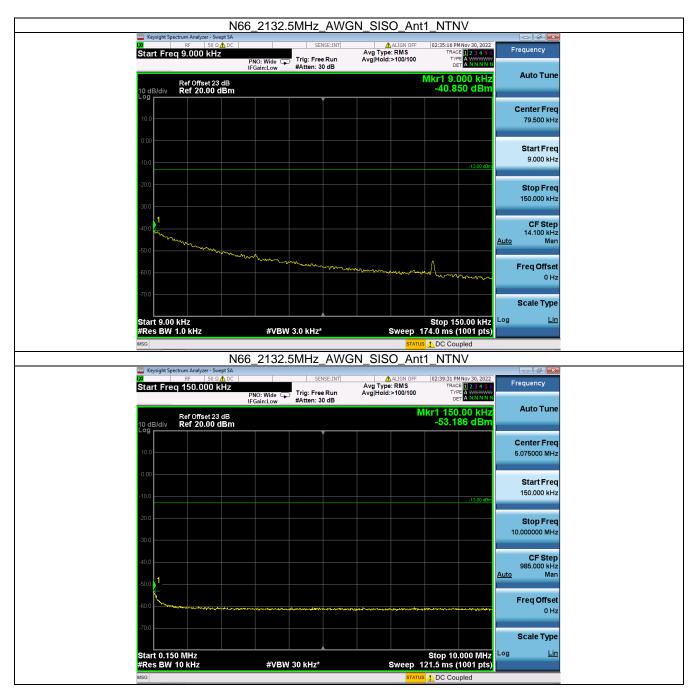
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#### For 5GNR N66





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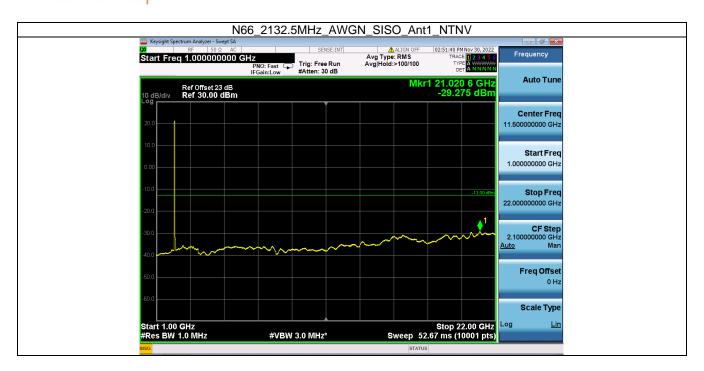
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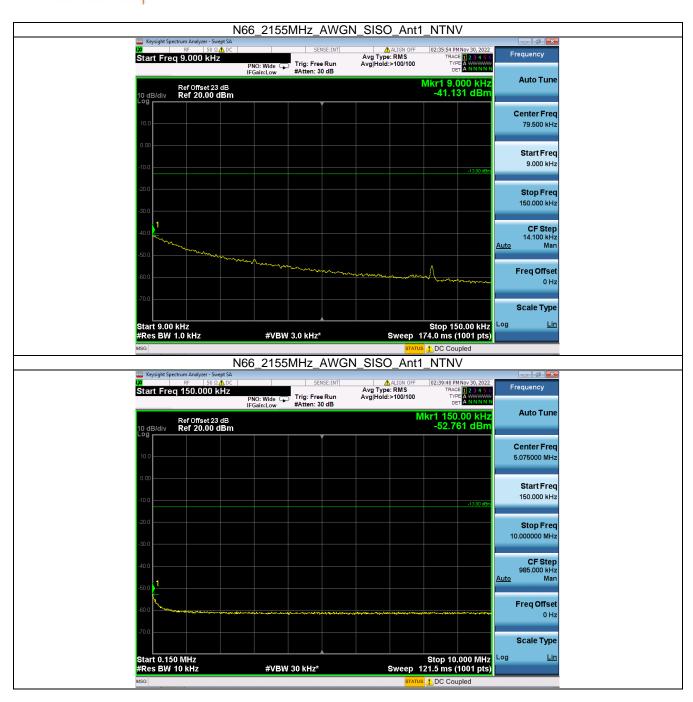


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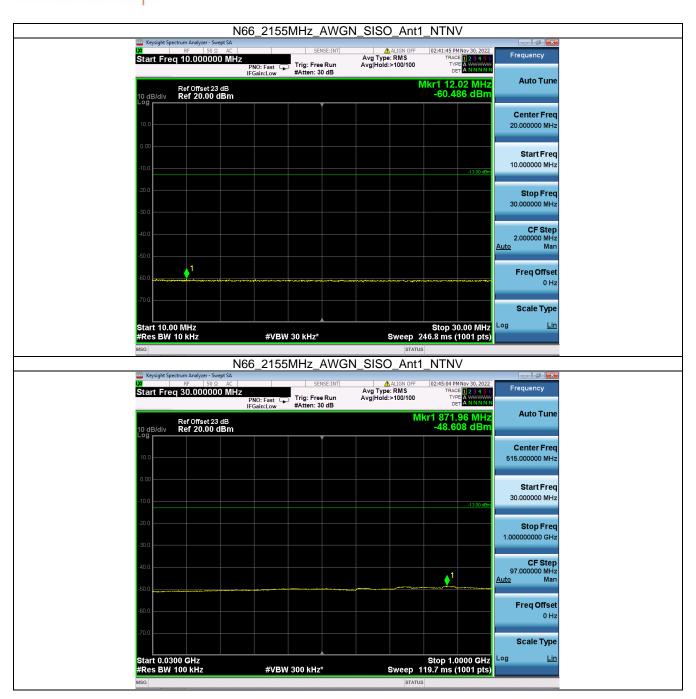
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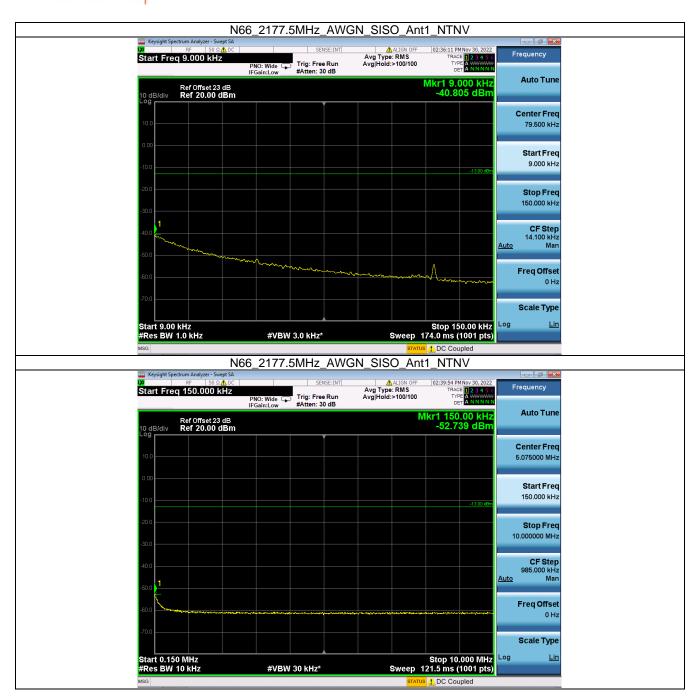


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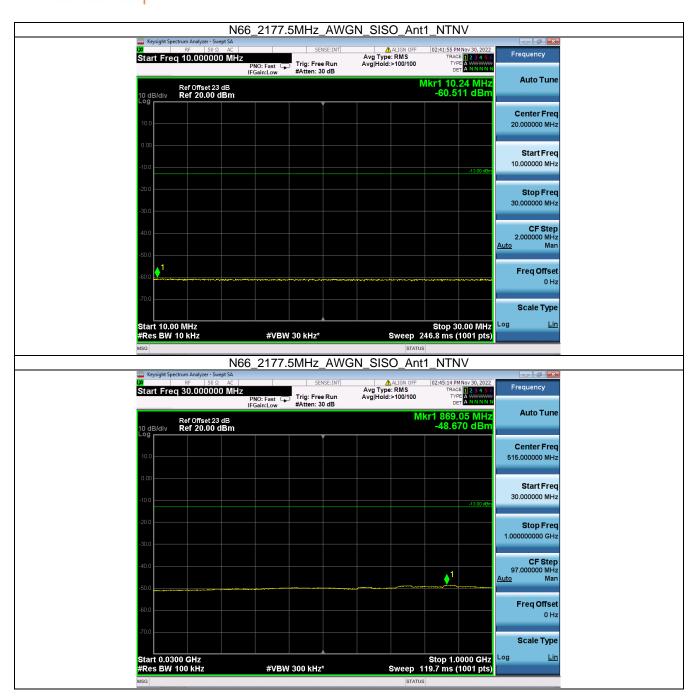
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#### 7. Frequency stability measurements

#### 7.1 Band66\_Ant1

#### 7.1.1 Test Result

			Band: 66	/ NTNV			
	Signal		Temp	Voltage	Freq. Error	Tolerance	\/adi.a.t
Type	Level (dBm)	Frequency (MHz)	(°C)	(VAC)	(Hz)	(ppm)	Verdict
	, ,	, ,		102	0	0.00	Pass
			20	120	0	0.00	Pass
				138	0	0.00	Pass
			-40	120	0	0.00	Pass
			-30	120	0	0.00	Pass
		2110.1	-20	120	0	0.00	Pass
		2110.1	-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
		0.2 2155		102	0	0.00	Pass
			20	120	0	0.00	Pass
				138	0	0.00	Pass
			-40	120	0	0.00	Pass
			-30	120	0	0.00	Pass
CW	0.2		-20	120	0	0.00	Pass
CVV	0.2	2100	-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
				102	0	0.00	Pass
			20	120	0	0.00	Pass
				138	0	0.00	Pass
			-40	120	0	0.00	Pass
			-30	120	0	0.00	Pass
		2199.9	-20	120	0	0.00	Pass
		2199.9	-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 Band66\_Ant1

8.1.1 Test Result

For LTE Band 66

	AWGN_Low channel						
Frequency	-	Spurious Emission Polarization and Level		Over limit	Result		
MHz	polarization	dBm	dBm	dB			
384.9	Horizontal	-69.62	-13	-56.62	pass		
590.9	Horizontal	-62.00	-13	-49.00	pass		
968.8	Horizontal	-60.93	-13	-47.93	pass		
1335.6	Horizontal	-57.91	-13	-44.91	pass		
2755.0	Horizontal	-52.05	-13	-39.05	pass		
6509.8	Horizontal	-50.77	-13	-37.77	pass		
404.2	Vertical	-69.12	-13	-56.12	pass		
566.3	Vertical	-66.23	-13	-53.23	pass		
939.8	Vertical	-57.22	-13	-44.22	pass		
1365.1	Vertical	-60.37	-13	-47.37	pass		
2760.5	Vertical	-56.92	-13	-43.92	pass		
6504.2	Vertical	-50.56	-13	-37.56	pass		

	AWGN_Middle channel							
Frequency	-	Spurious Emission Polarization and Level		Over limit	Result			
MHz	polarization	dBm	dBm	dB				
380.7	Horizontal	-66.14	-13	-53.14	pass			
586.9	Horizontal	-65.30	-13	-52.30	pass			
964.3	Horizontal	-59.12	-13	-46.12	pass			
1344.7	Horizontal	-61.83	-13	-48.83	pass			
2767.7	Horizontal	-56.76	-13	-43.76	pass			
6505.0	Horizontal	-47.33	-13	-34.33	pass			
388.3	Vertical	-68.91	-13	-55.91	pass			
578.9	Vertical	-66.41	-13	-53.41	pass			
954.6	Vertical	-58.79	-13	-45.79	pass			
1347.3	Vertical	-61.16	-13	-48.16	pass			
2750.4	Vertical	-52.03	-13	-39.03	pass			
6524.0	Vertical	-50.29	-13	-37.29	pass			



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	AWGN_High channel							
Frequency		Spurious Emission Polarization and Level		Over limit	Result			
MHz	polarization	dBm	dBm	dB				
406.3	Horizontal	-66.92	-13	-53.92	pass			
595.2	Horizontal	-65.67	-13	-52.67	pass			
941.6	Horizontal	-56.84	-13	-43.84	pass			
1338.9	Horizontal	-57.87	-13	-44.87	pass			
2738.4	Horizontal	-54.13	-13	-41.13	pass			
6507.7	Horizontal	-47.48	-13	-34.48	pass			
363.9	Vertical	-66.96	-13	-53.96	pass			
568.0	Vertical	-63.13	-13	-50.13	pass			
968.6	Vertical	-58.97	-13	-45.97	pass			
1349.1	Vertical	-61.39	-13	-48.39	pass			
2735.9	Vertical	-56.24	-13	-43.24	pass			
6518.3	Vertical	-49.84	-13	-36.84	pass			

	GMSK_Low channel							
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result			
MHz	polarization	dBm	dBm	dB				
370.4	Horizontal	-69.32	-13	-56.32	pass			
568.8	Horizontal	-61.20	-13	-48.20	pass			
952.1	Horizontal	-59.08	-13	-46.08	pass			
1336.5	Horizontal	-58.76	-13	-45.76	pass			
2753.8	Horizontal	-56.18	-13	-43.18	pass			
6515.2	Horizontal	-47.13	-13	-34.13	pass			
388.0	Vertical	-70.48	-13	-57.48	pass			
595.7	Vertical	-66.16	-13	-53.16	pass			
957.5	Vertical	-60.94	-13	-47.94	pass			
1331.5	Vertical	-57.29	-13	-44.29	pass			
2729.9	Vertical	-55.13	-13	-42.13	pass			
6505.3	Vertical	-46.70	-13	-33.70	pass			



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	GMSK_Middle channel							
Frequency	Spurious Polarization		Limit	Over limit	Result			
MHz	polarization	dBm	dBm	dB				
402.6	Horizontal	-70.46	-13	-57.46	pass			
561.0	Horizontal	-62.11	-13	-49.11	pass			
943.6	Horizontal	-56.54	-13	-43.54	pass			
1369.4	Horizontal	-57.98	-13	-44.98	pass			
2740.4	Horizontal	-54.75	-13	-41.75	pass			
6481.1	Horizontal	-48.43	-13	-35.43	pass			
381.1	Vertical	-67.19	-13	-54.19	pass			
590.3	Vertical	-66.92	-13	-53.92	pass			
972.7	Vertical	-58.91	-13	-45.91	pass			
1350.0	Vertical	-56.94	-13	-43.94	pass			
2767.5	Vertical	-54.44	-13	-41.44	pass			
6520.7	Vertical	-49.07	-13	-36.07	pass			

	GMSK_High channel							
Frequency	-   <del>-</del>	Spurious Emission Polarization and Level		Over limit	Result			
MHz	polarization	dBm	dBm	dB				
398.5	Horizontal	-69.72	-13	-56.72	pass			
579.3	Horizontal	-62.12	-13	-49.12	pass			
948.9	Horizontal	-60.28	-13	-47.28	pass			
1368.6	Horizontal	-57.05	-13	-44.05	pass			
2774.6	Horizontal	-51.10	-13	-38.10	pass			
6488.1	Horizontal	-50.50	-13	-37.50	pass			
383.9	Vertical	-70.93	-13	-57.93	pass			
593.1	Vertical	-62.47	-13	-49.47	pass			
955.7	Vertical	-58.94	-13	-45.94	pass			
1348.5	Vertical	-58.65	-13	-45.65	pass			
2732.0	Vertical	-54.64	-13	-41.64	pass			
6503.1	Vertical	-50.86	-13	-37.86	pass			



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#### For 5GNR N66

	AWGN_Low channel								
Frequency		Spurious Emission Polarization and Level		Over limit	Result				
MHz	polarization	dBm	dBm	dB					
389.9	Horizontal	-71.11	-13	-58.11	pass				
581.1	Horizontal	-66.28	-13	-53.28	pass				
968.1	Horizontal	-60.72	-13	-47.72	pass				
1368.2	Horizontal	-59.45	-13	-46.45	pass				
2742.5	Horizontal	-54.71	-13	-41.71	pass				
6522.2	Horizontal	-51.99	-13	-38.99	pass				
379.5	Vertical	-68.83	-13	-55.83	pass				
573.5	Vertical	-63.91	-13	-50.91	pass				
959.0	Vertical	-61.62	-13	-48.62	pass				
1338.3	Vertical	-60.06	-13	-47.06	pass				
2767.8	Vertical	-51.91	-13	-38.91	pass				
6496.2	Vertical	-46.49	-13	-33.49	pass				

	AWGN_Middle channel							
Frequency	Spurious Emission Polarization and Level		Limit	Over limit	Result			
MHz	polarization	dBm	dBm	dB				
402.2	Horizontal	-69.07	-13	-56.07	pass			
602.8	Horizontal	-64.31	-13	-51.31	pass			
967.4	Horizontal	-57.20	-13	-44.20	pass			
1341.2	Horizontal	-57.89	-13	-44.89	pass			
2734.4	Horizontal	-51.61	-13	-38.61	pass			
6508.3	Horizontal	-49.29	-13	-36.29	pass			
390.4	Vertical	-69.25	-13	-56.25	pass			
589.9	Vertical	-66.74	-13	-53.74	pass			
971.4	Vertical	-60.68	-13	-47.68	pass			
1348.6	Vertical	-60.31	-13	-47.31	pass			
2739.9	Vertical	-52.60	-13	-39.60	pass			
6513.4	Vertical	-47.95	-13	-34.95	pass			



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	AWGN_High channel							
Frequency	•	Spurious Emission Polarization and Level		Over limit	Result			
MHz	polarization	dBm	dBm	dB				
396.8	Horizontal	-67.29	-13	-54.29	pass			
578.0	Horizontal	-64.46	-13	-51.46	pass			
944.4	Horizontal	-61.89	-13	-48.89	pass			
1364.9	Horizontal	-61.25	-13	-48.25	pass			
2734.4	Horizontal	-52.15	-13	-39.15	pass			
6522.0	Horizontal	-47.32	-13	-34.32	pass			
374.2	Vertical	-67.55	-13	-54.55	pass			
600.9	Vertical	-62.99	-13	-49.99	pass			
963.5	Vertical	-59.82	-13	-46.82	pass			
1368.4	Vertical	-60.02	-13	-47.02	pass			
2737.1	Vertical	-54.16	-13	-41.16	pass			
6492.8	Vertical	-48.59	-13	-35.59	pass			



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