Appendix E for KSCR2401000129AT-B66

1. Out of band rejection

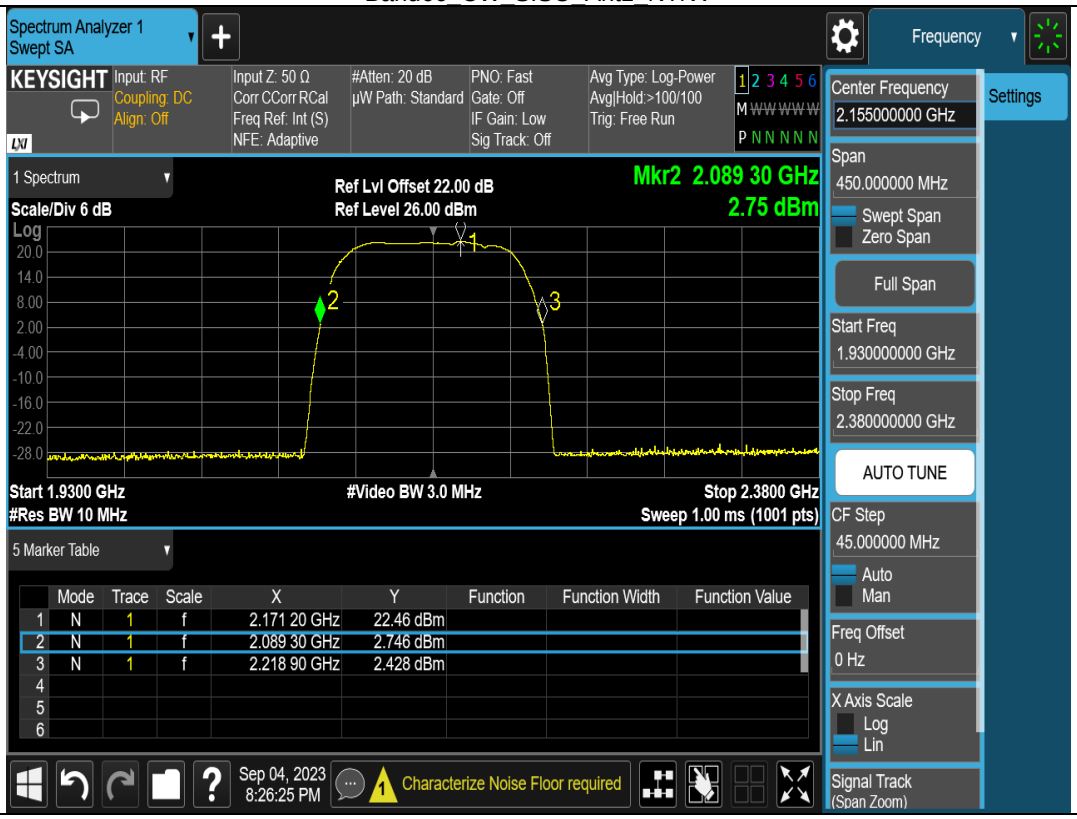
1.1 Band66

1.1.1 Test Result

Band: 66 / NTNV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	1930 - 2380	SISO	1	2171.2	2089.3	2218.9	Pass

1.1.2 Test Graph

Band66_CW_SISO_Ant1_NTNV



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	2171.2	SISO	1	-3	Pass
GMSK	2171.2	SISO	1	-3	Pass

3. Input-versus-output signal comparison

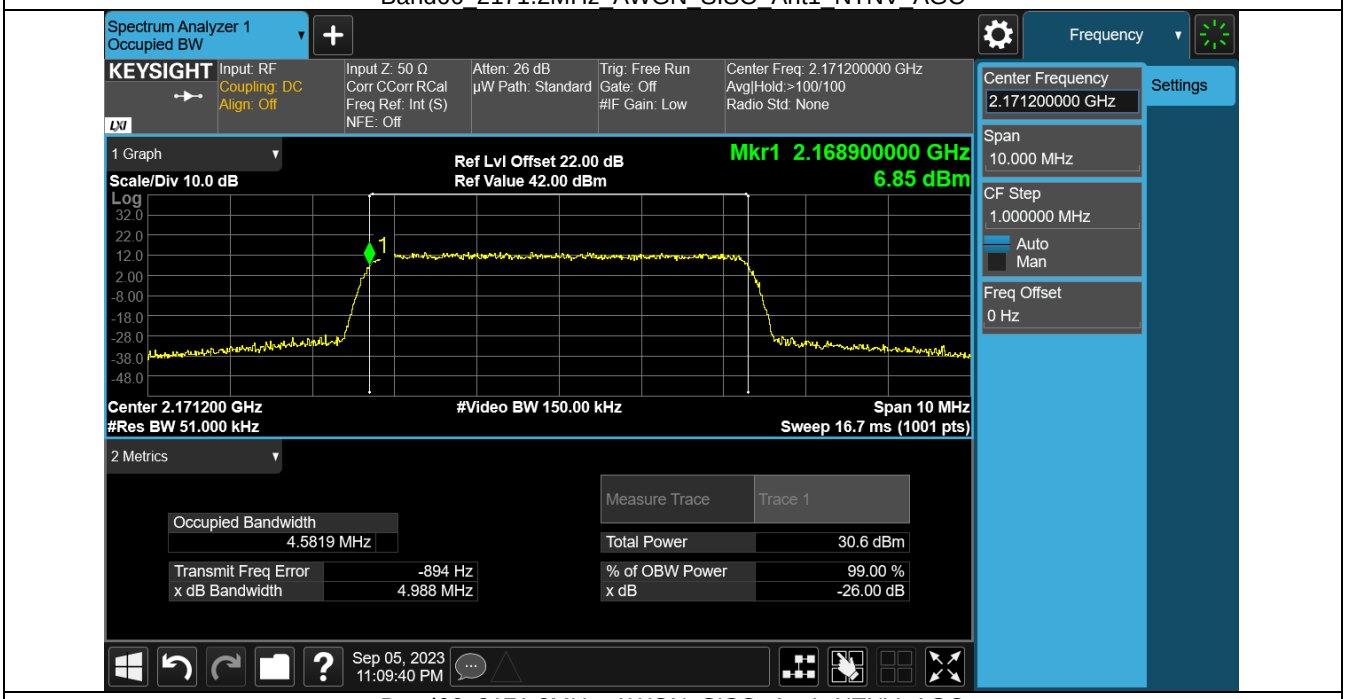
3.1 Band66_OBW

3.1.1 Test Result

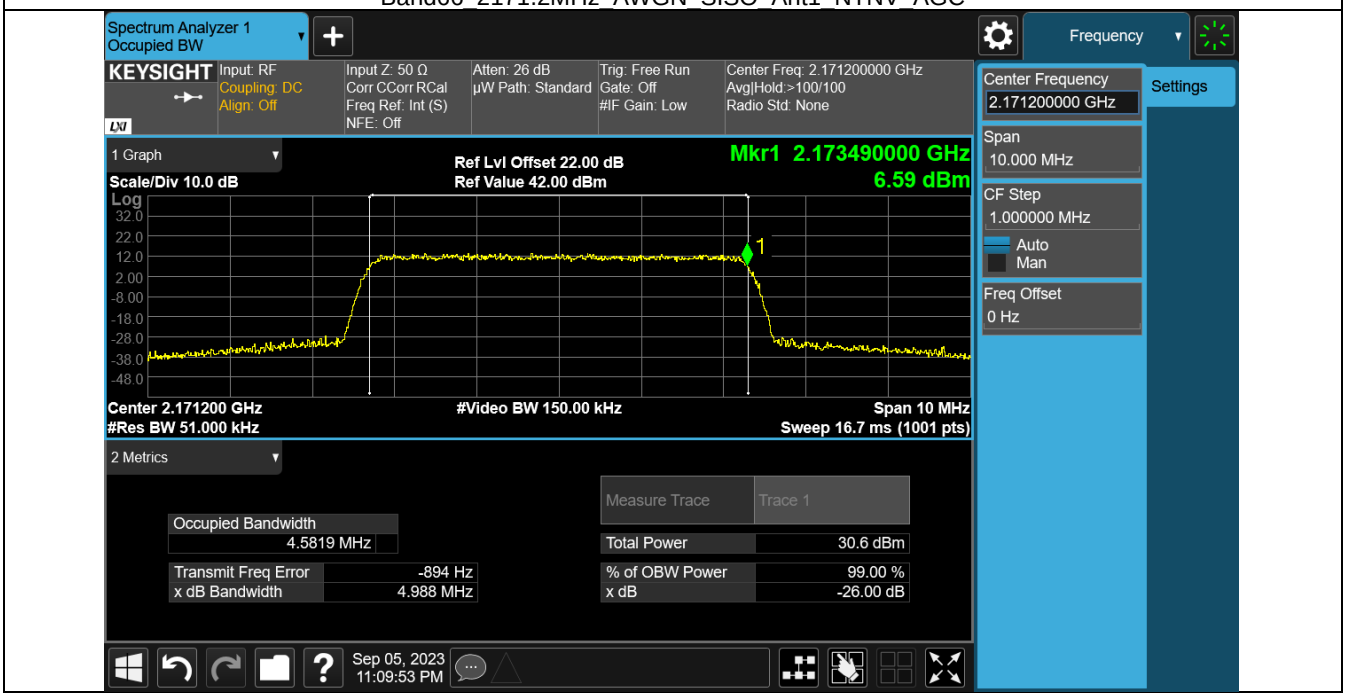
Band: 66 / NTNV									
Signal			TX Type	ANT	99% OBW (MHz)		Discrepancy (%)	Limit (%)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input			
AWGN	-3	2171.2	SISO	1	4.5819	4.5802	0.0371	5	Pass
	0	2171.2	SISO	1	4.5796	4.5844	-0.1050	5	Pass
GMSK	-3	2171.2	SISO	1	0.24588	0.24575	0.0529	5	Pass
	0	2171.2	SISO	1	0.24586	0.24575	0.0448	5	Pass

3.1.2 Test Graph

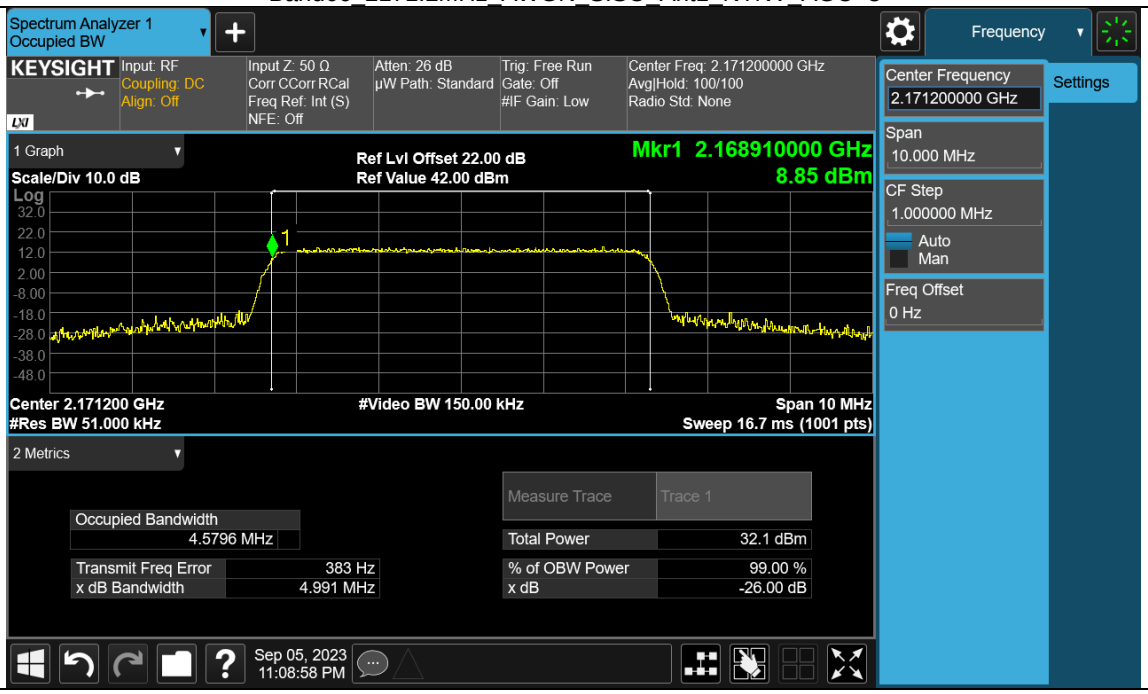
Band66_2171.2MHz_AWGN_SISO_Ant1_NTNV_AGC



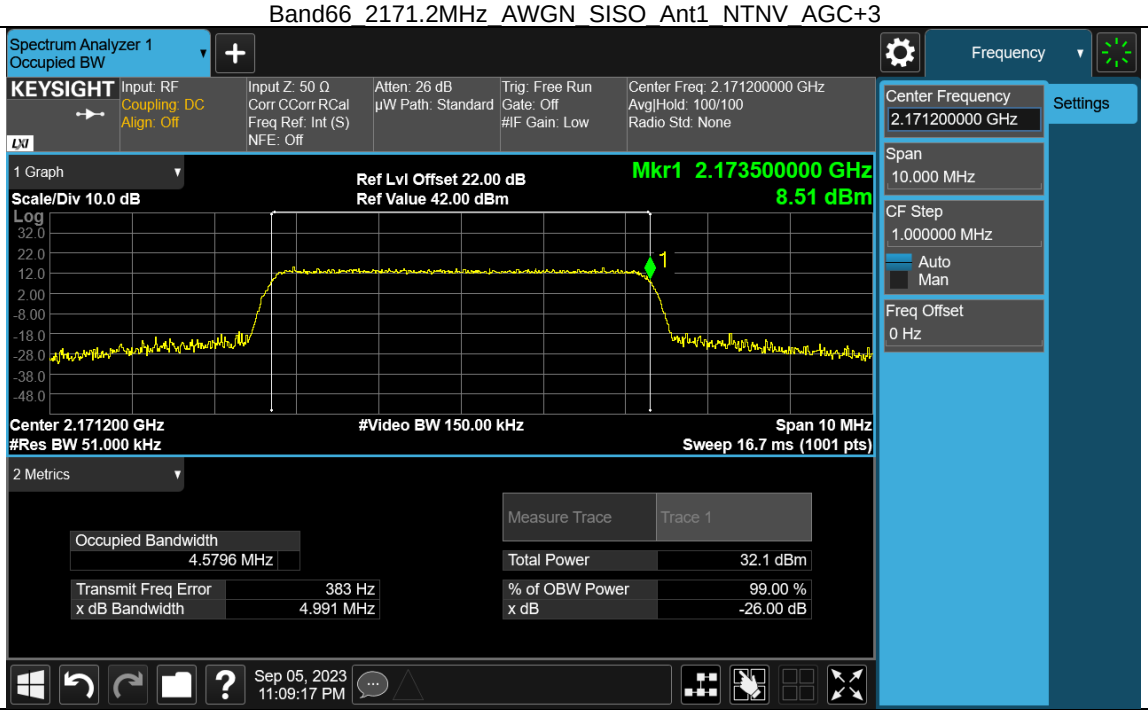
Band66_2171.2MHz_AWGN_SISO_Ant1_NTNV_AGC



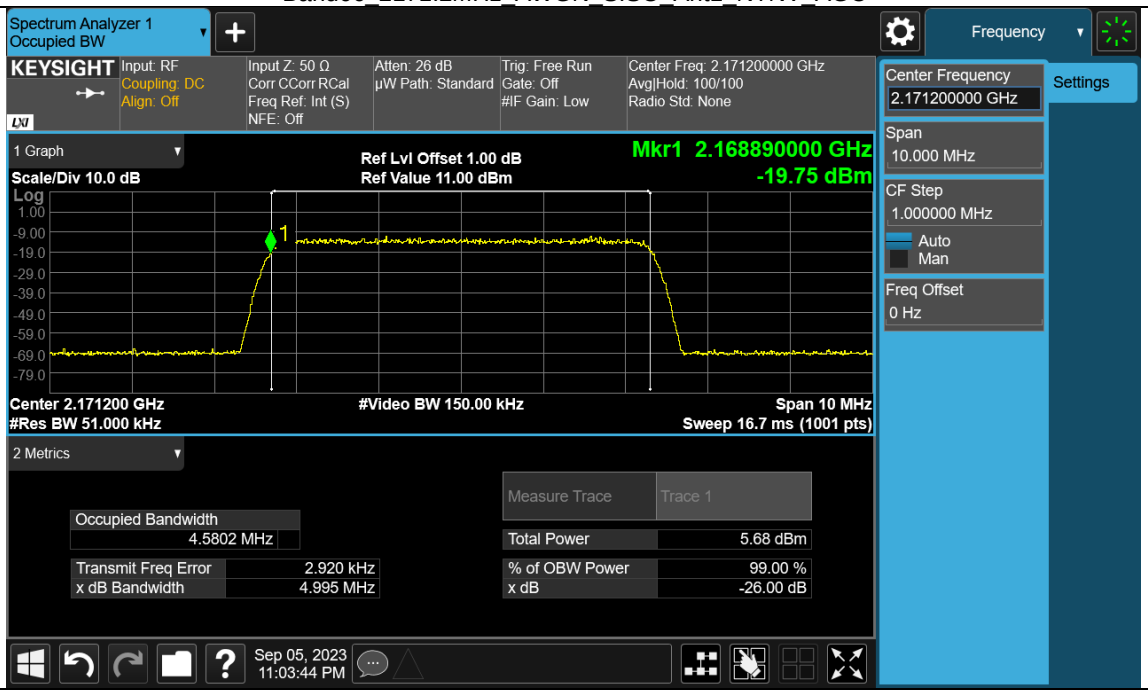
Band66_2171.2MHz_AWGN_SISO_Ant1_NTNV_AGC+3



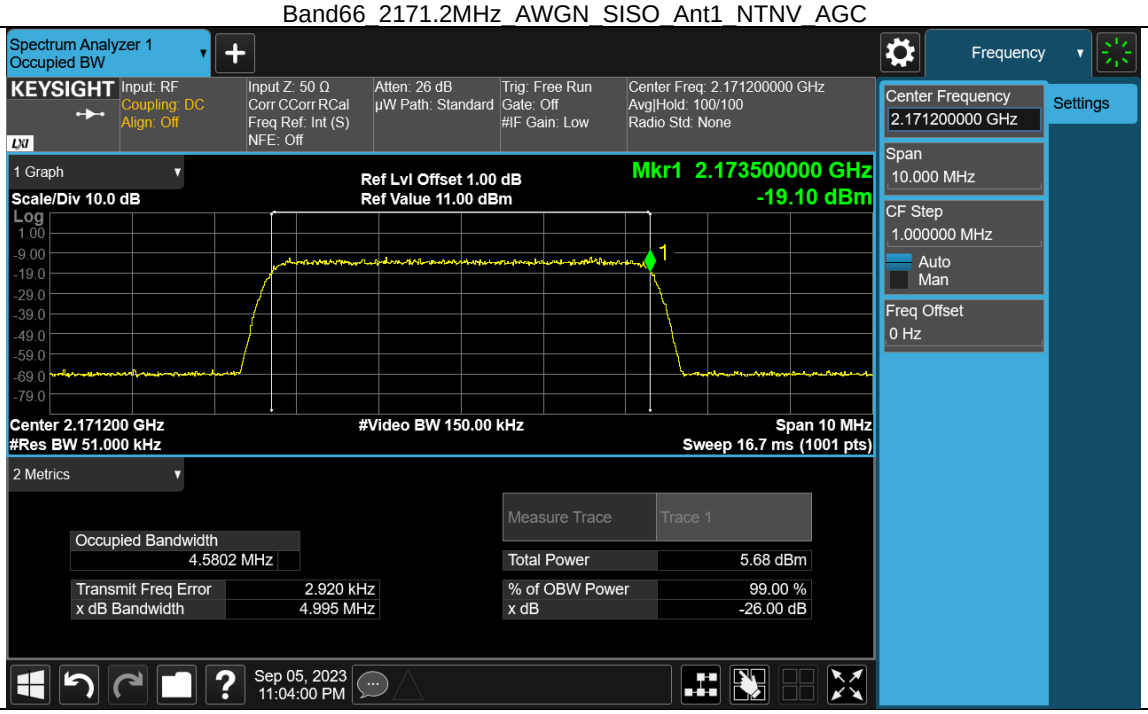
Band66_2171.2MHz_AWGN_SISO_Ant1_NTNV_AGC+3



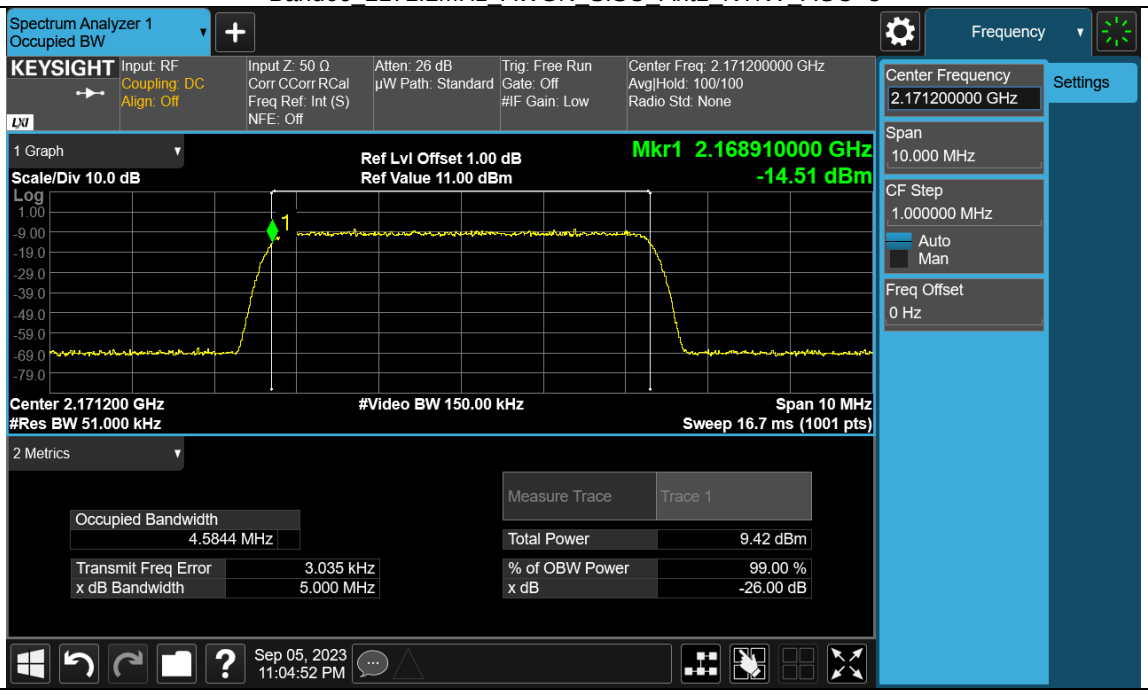
Band66_2171.2MHz_AWGN_SISO_Ant1_NTNV_AGC



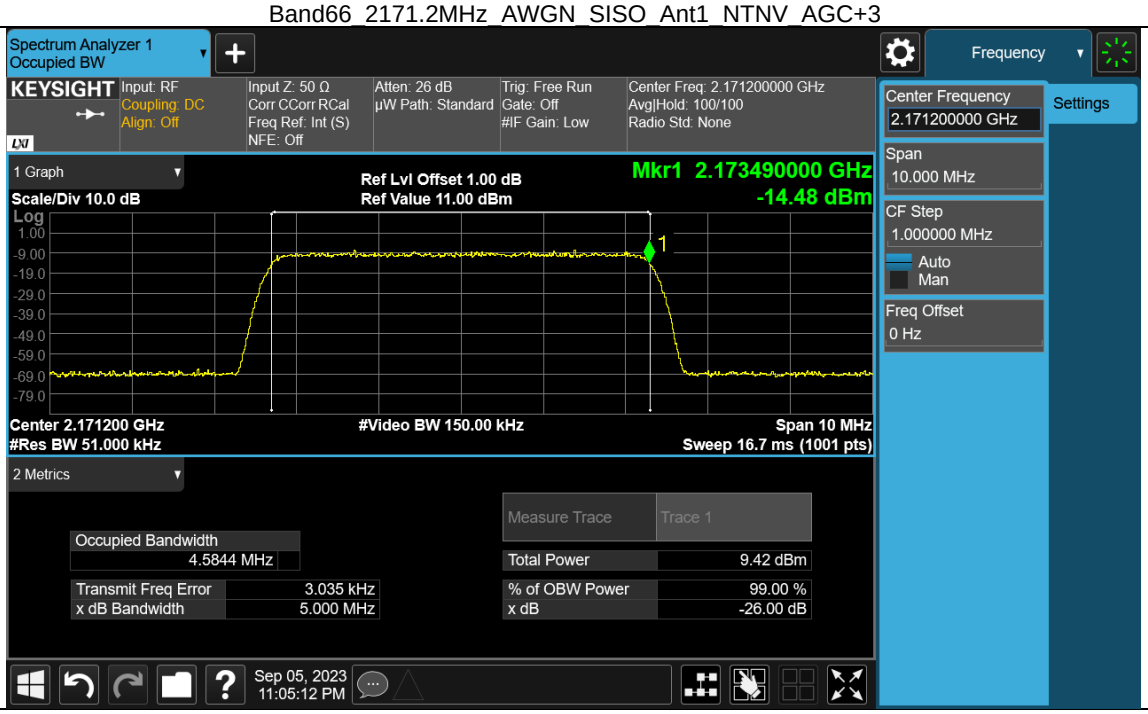
Band66_2171.2MHz_AWGN_SISO_Ant1_NTNV_AGC



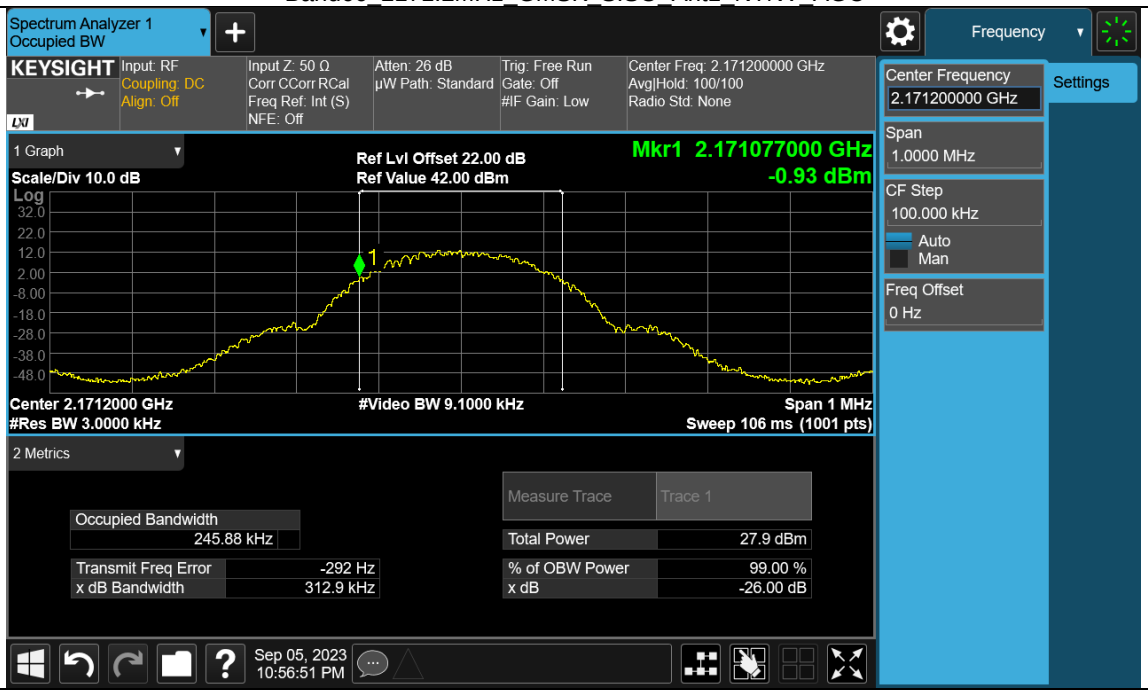
Band66_2171.2MHz_AWGN_SISO_Ant1_NTNV_AGC+3



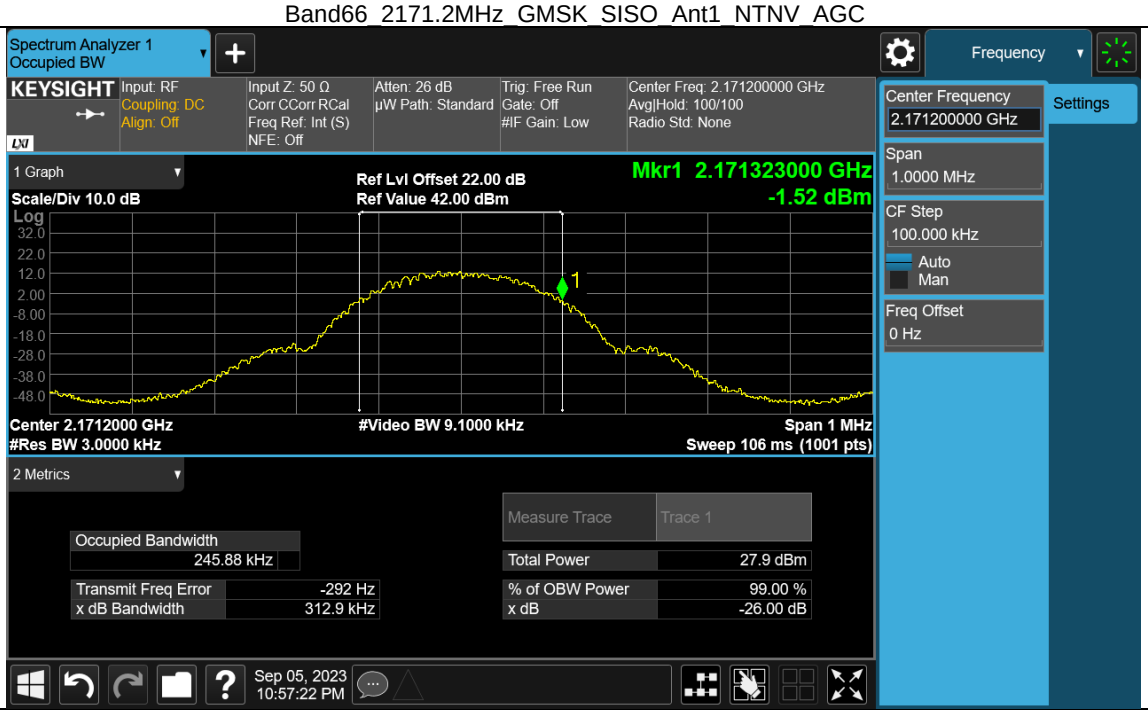
Band66_2171.2MHz_AWGN_SISO_Ant1_NTNV_AGC+3



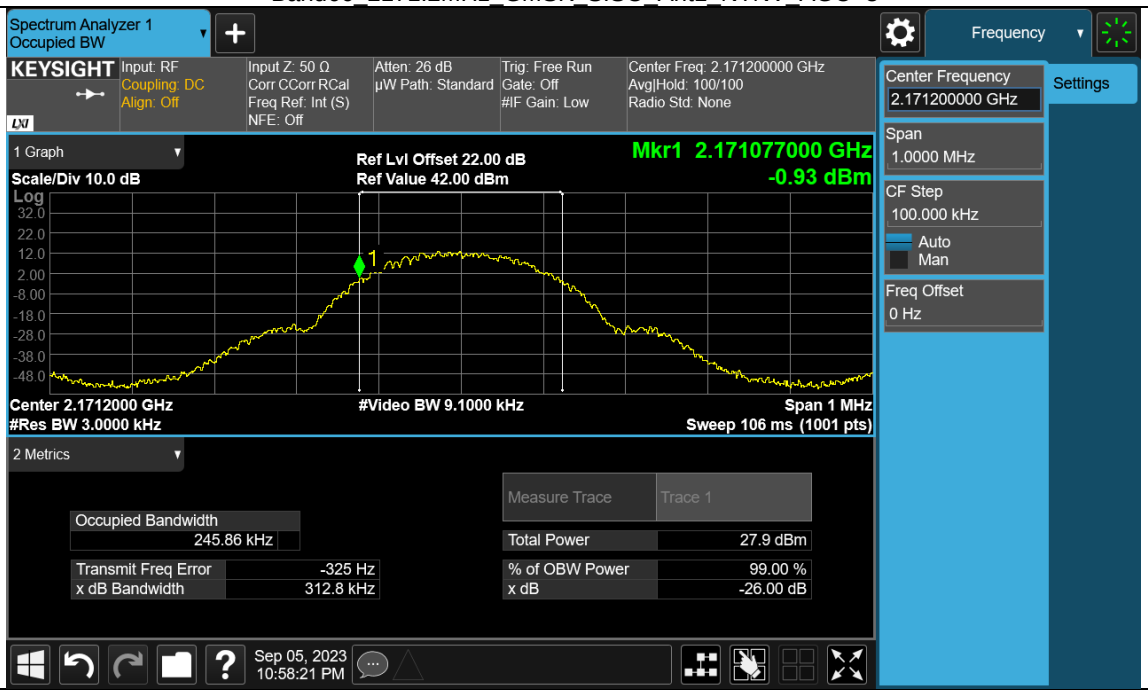
Band66_2171.2MHz_GMSK_SISO_Ant1_NTNV_AGC



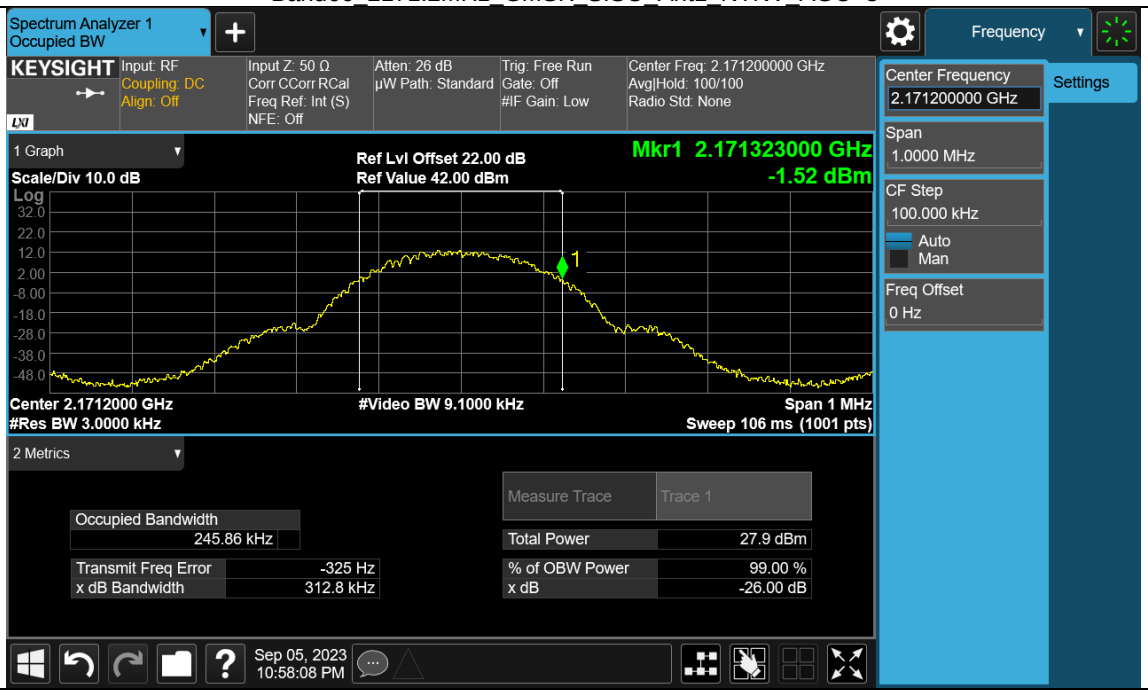
Band66_2171.2MHz_GMSK_SISO_Ant1_NTNV_AGC



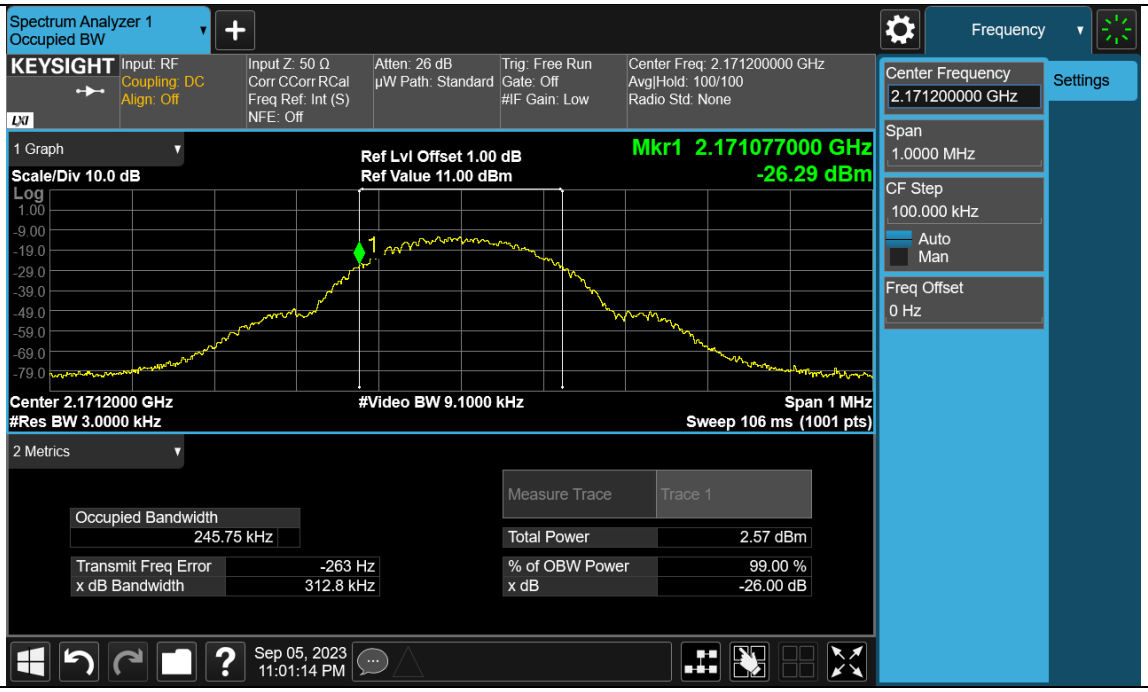
Band66_2171.2MHz_GMSK_SISO_Ant1_NTNV_AGC+3



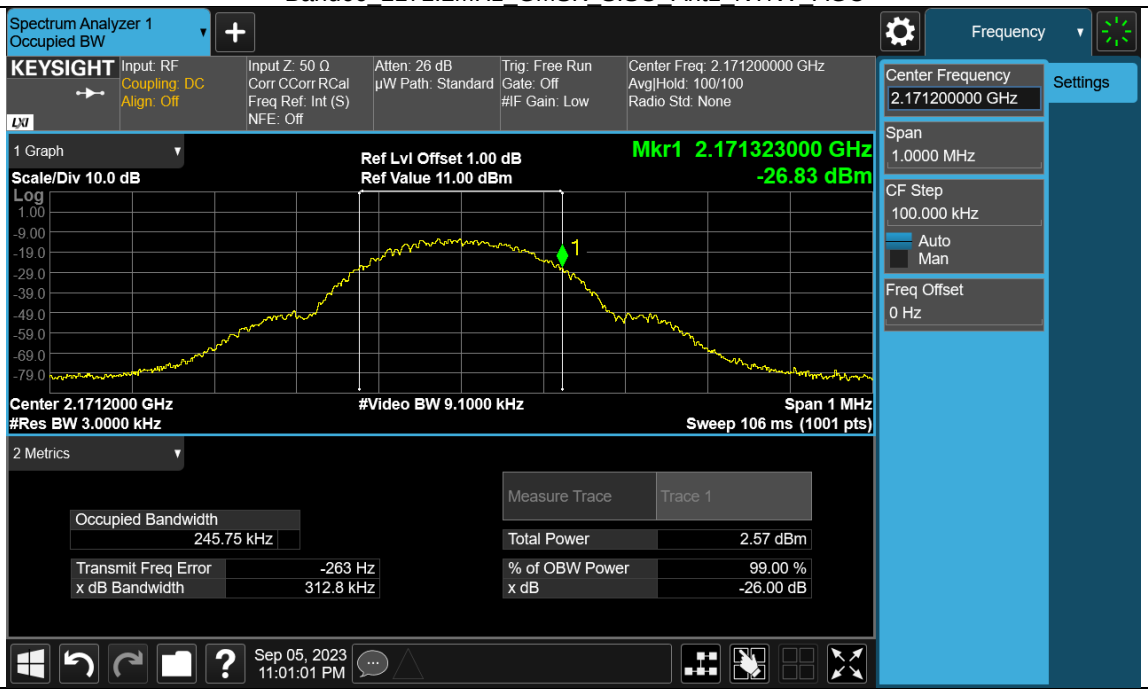
Band66_2171.2MHz_GMSK_SISO_Ant1_NTNV_AGC=3



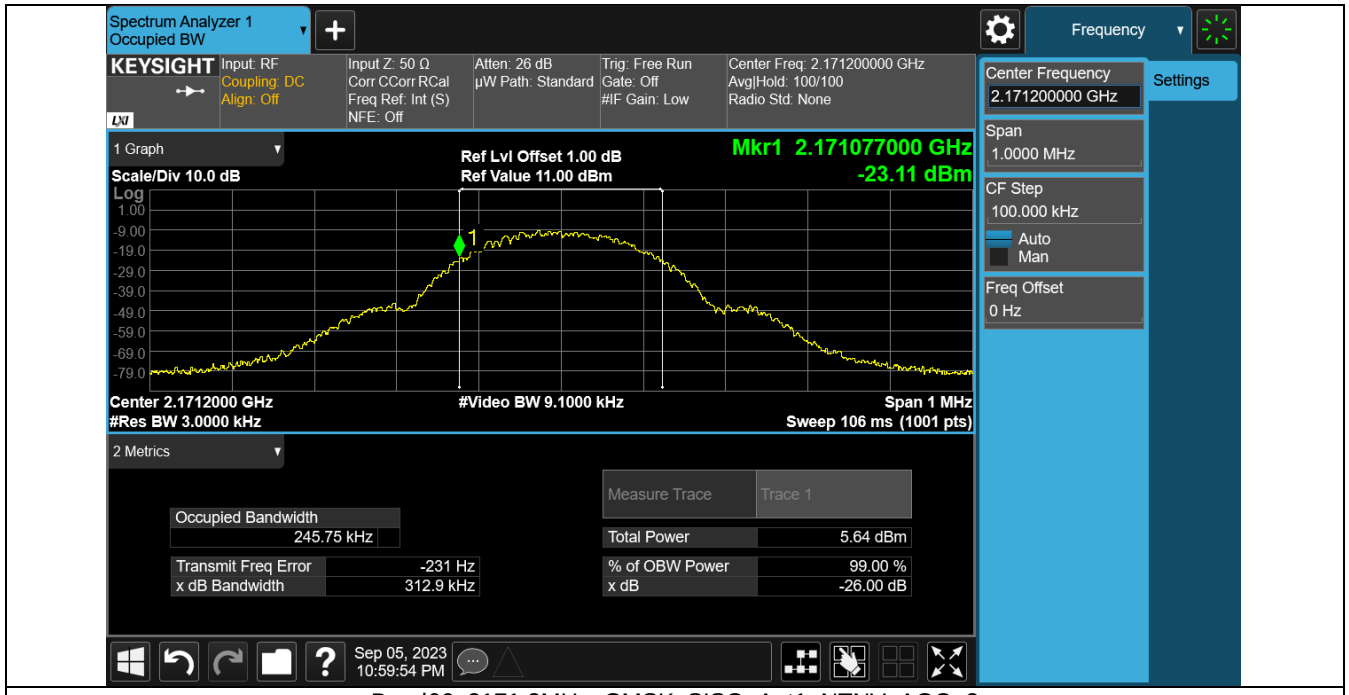
Band66_2171.2MHz_GMSK_SISO_Ant1_NTNV_AGC



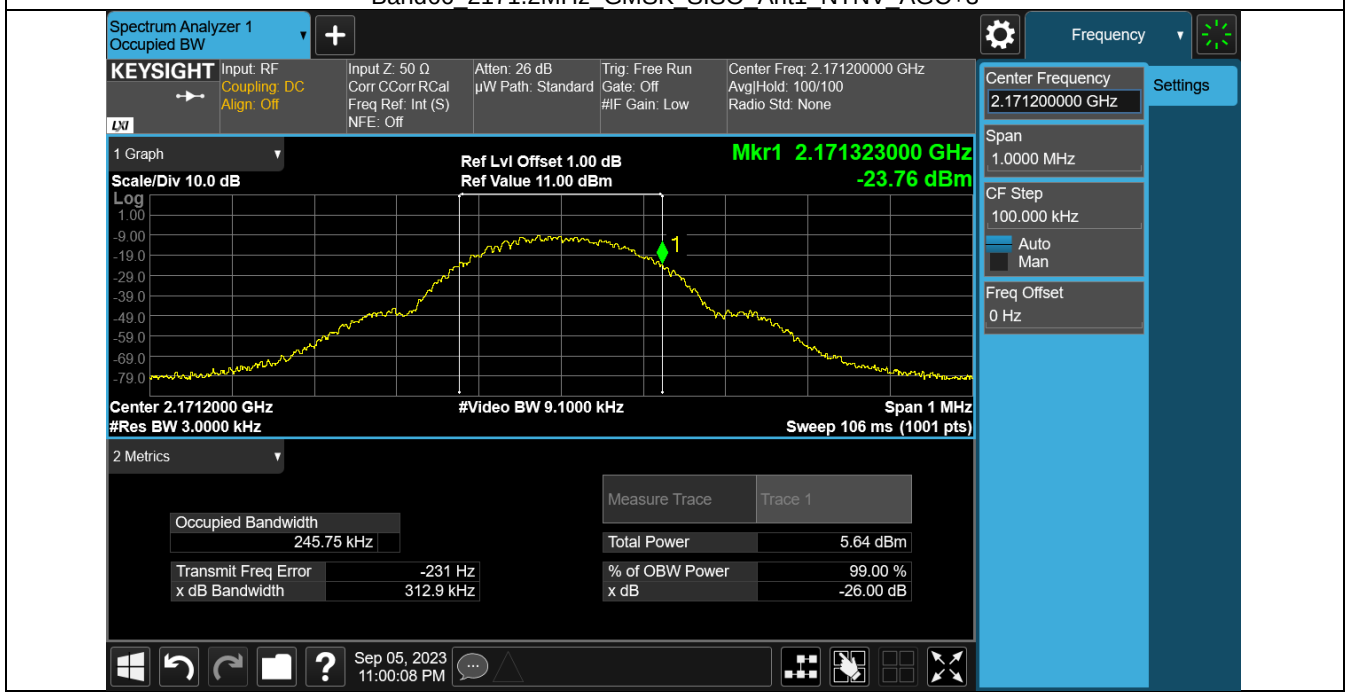
Band66_2171.2MHz_GMSK_SISO_Ant1_NTNV_AGC



Band66_2171.2MHz_GMSK_SISO_Ant1_NTNV_AGC+3



Band66_2171.2MHz_GMSK_SISO_Ant1_NTNV_AGC+3



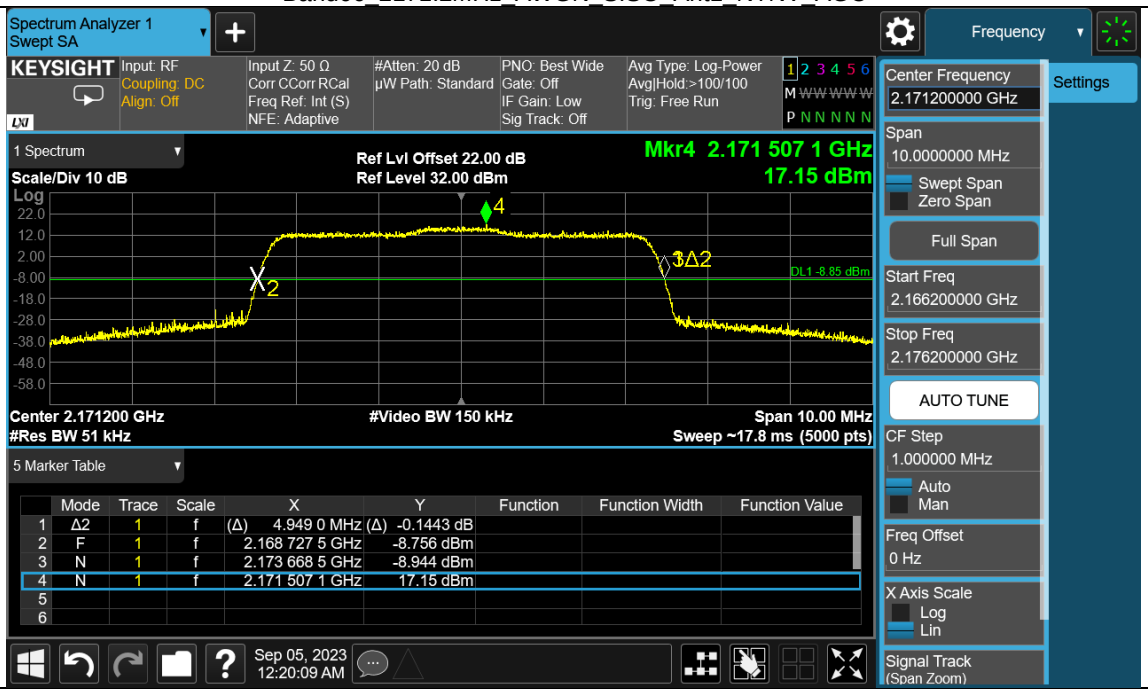
3.2 Band66_EBW

3.2.1 Test Result

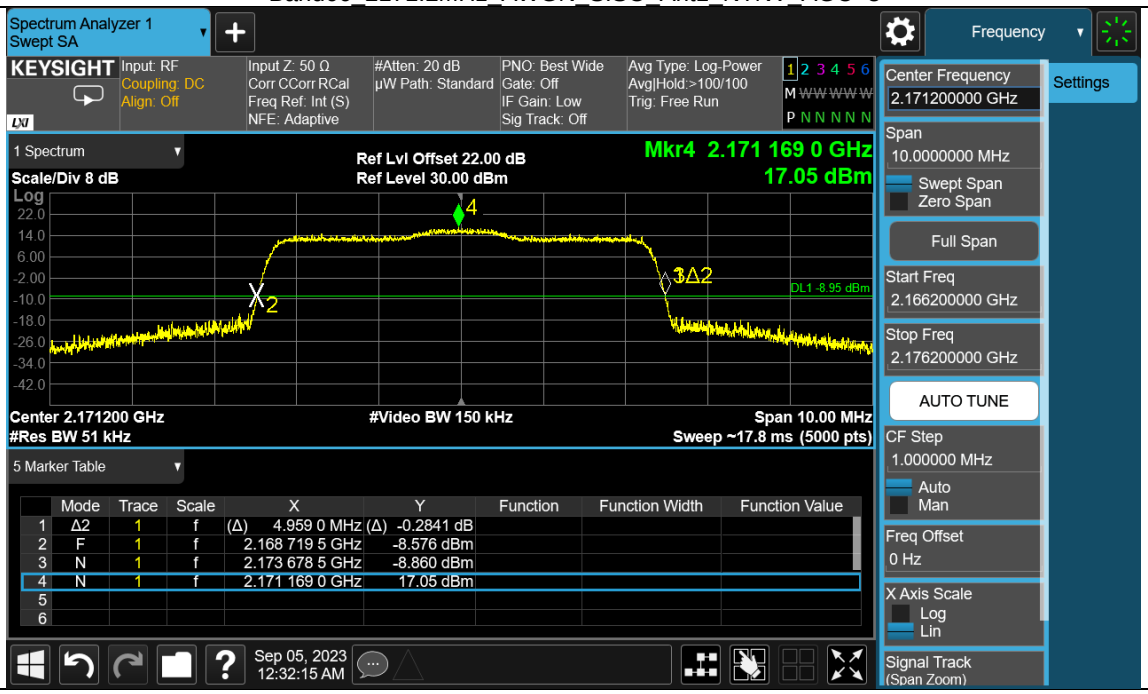
Band: 66 / NTNV									
Signal			TX Type	ANT	26dB EBW (MHz)		Discrepancy (%)	Limit (%)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input			
AWGN	-3	2171.2	SISO	1	4.949	4.963	-0.282	5	Pass
	0	2171.2	SISO	1	4.959	4.965	-0.121	5	Pass
GMSK	-3	2171.2	SISO	1	0.31266	0.31426	-0.509	5	Pass
	0	2171.2	SISO	1	0.31286	0.31306	-0.064	5	Pass

3.2.2 Test Graph

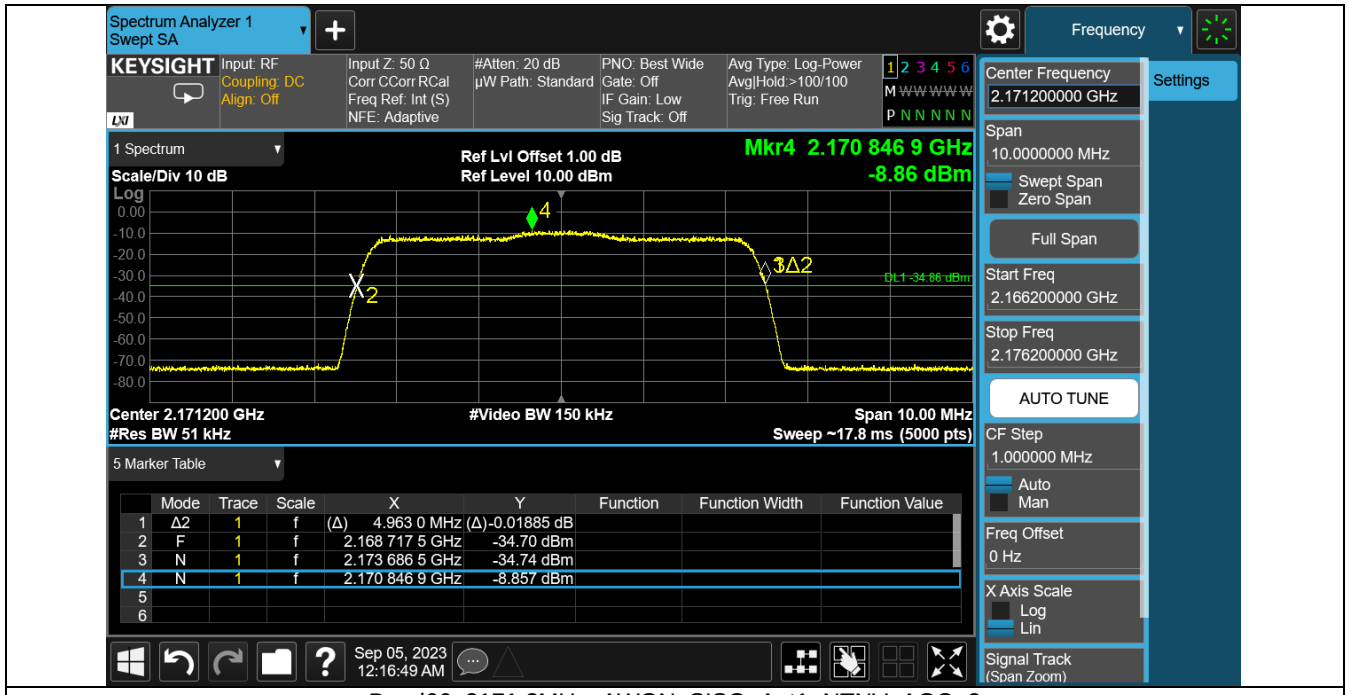
Band66_2171.2MHz_AWGN_SISO_Ant1_NTNV_AGC



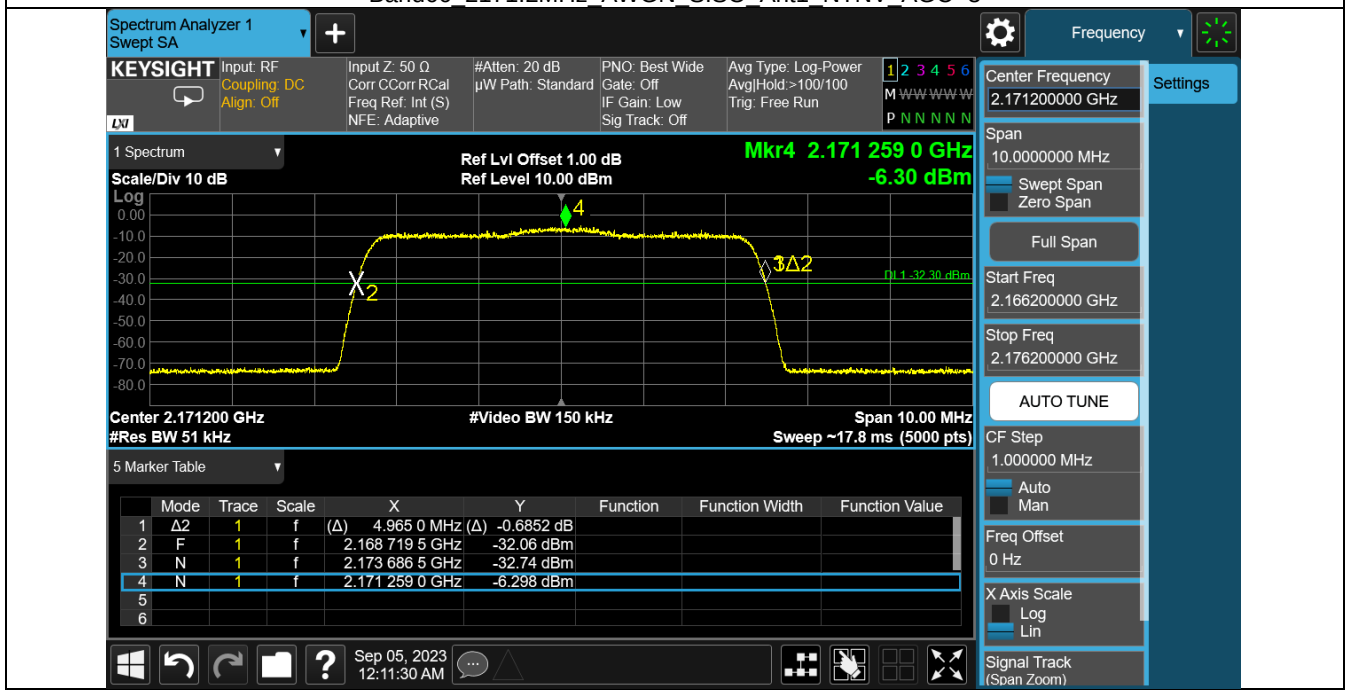
Band66_2171.2MHz_AWGN_SISO_Ant1_NTNV_AGC+3



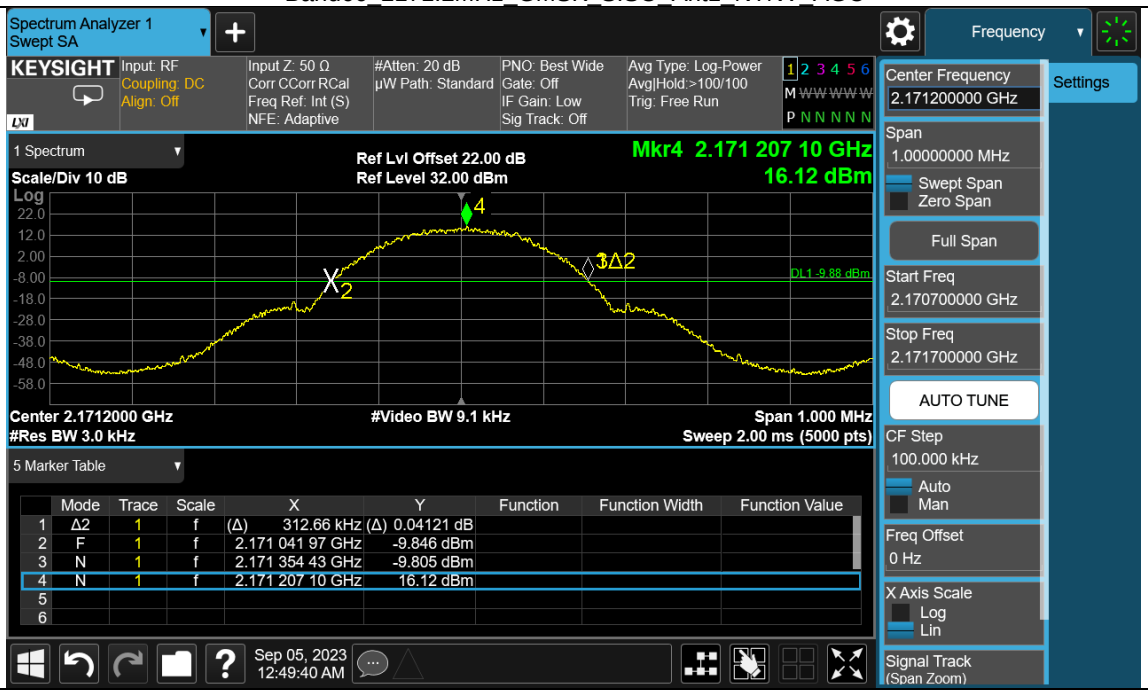
Band66_2171.2MHz_AWGN_SISO_Ant1_NTNV_AGC



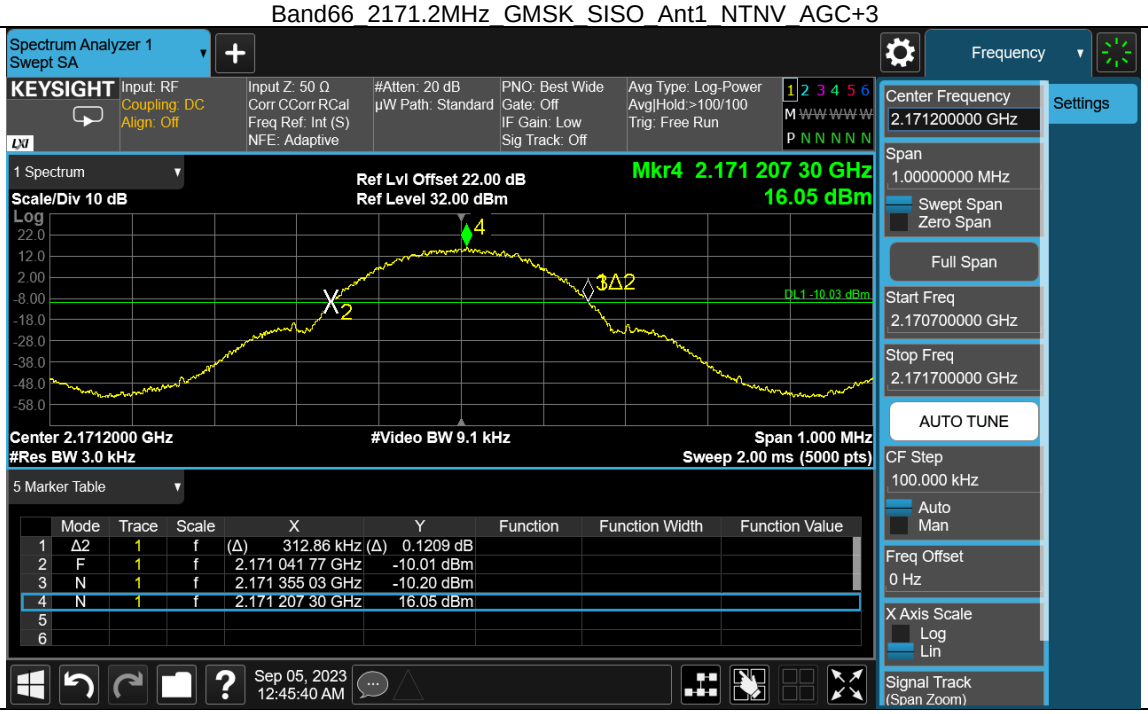
Band66_2171.2MHz_AWGN_SISO_Ant1_NTNV_AGC+3



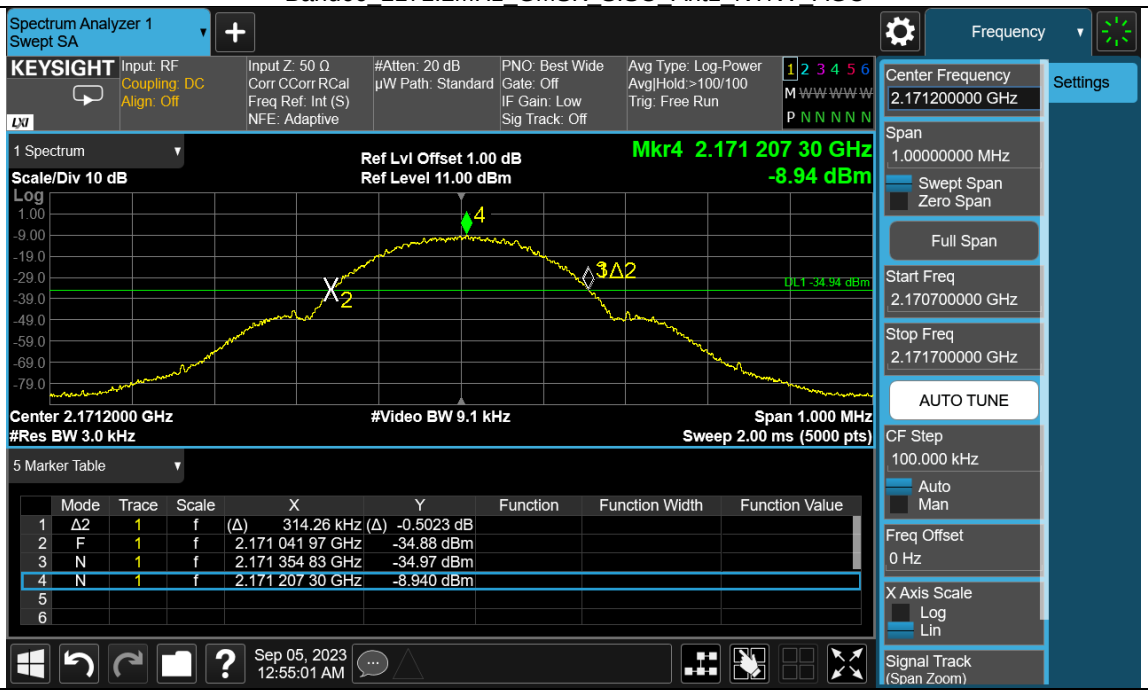
Band66_2171.2MHz_GMSK_SISO_Ant1_NTNV_AGC



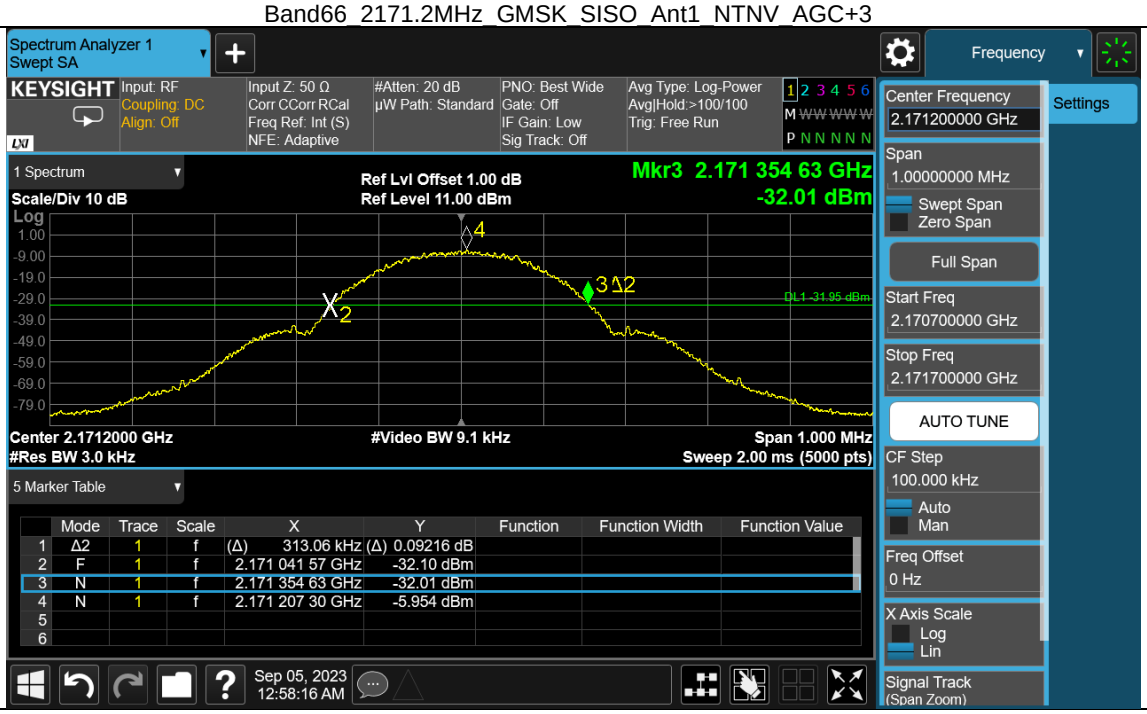
Band66_2171.2MHz_GMSK_SISO_Ant1_NTNV_AGC+3



Band66_2171.2MHz_GMSK_SISO_Ant1_NTNV_AGC



Band66_2171.2MHz_GMSK_SISO_Ant1_NTNV_AGC+3



4. Input/output power and amplifier/booster gain

4.1 Band66_EIRP

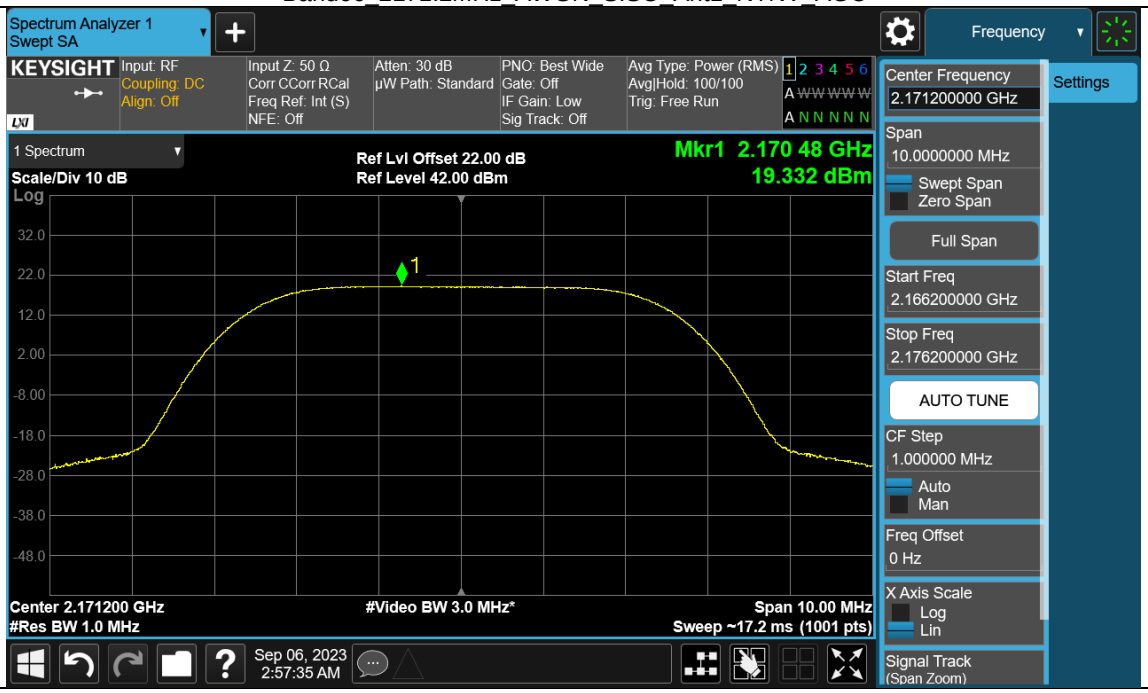
4.1.1 Test Result

Band: 66 / NTNV										
Signal			TX Type	ANT	Conducted Power (dBm/MHz)		EIRP (dBm/MHz)		Booster Gain (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit		
AWGN	-3	2171.2	SISO	1	19.332	-7.72	24.762	<=62.15	27.052	Pass
	0	2171.2	SISO	1	19.296	-3.69	24.726	<=62.15	/	Pass
GMSK	-3	2171.2	SISO	1	24.257	-3.12	29.687	<=62.15	27.377	Pass
	0	2171.2	SISO	1	24.387	0.65	29.817	<=62.15	/	Pass

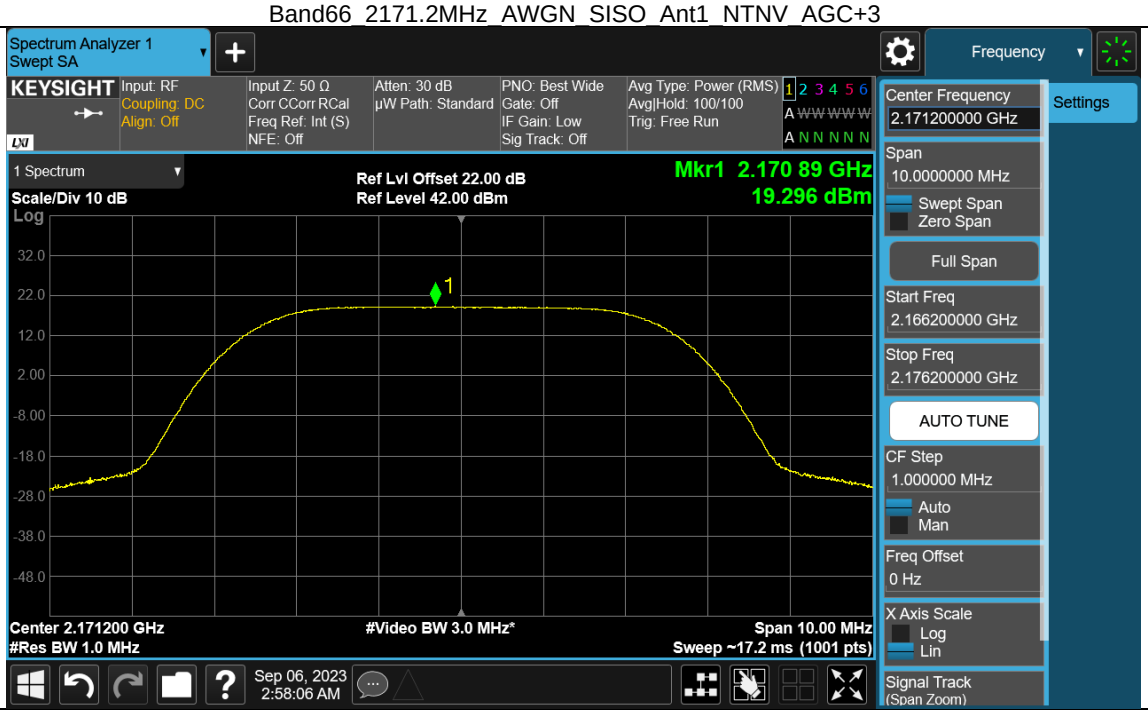
2110MHz-2200MHz / NTNV							
Operation Band	Frequency (MHz)	Signal Type	Signal Level	Input Power (dBm)	Total Output Power (dBm)	EIRP (dBm)	Gain (dB)
2110MHz-2200MHz	2171.2	AWGN	Pre-AGC	-3	24.45	29.88	/
			3dB Above AGC	0	24.49	29.92	/
	2171.2	GMSK	Pre-AGC	-3	24.53	29.96	/
			3dB Above AGC	0	24.58	30.01	/

4.1.2 Test Graph

Band66_2171.2MHz_AWGN_SISO_Ant1_NTNV_AGC



Band66_2171.2MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Band66_2171.2MHz_GMSK_SISO_Ant1_NTNV_AGC

Band66_2171.2MHz_GMSK_SISO_Ant1_NTNV_AGC+3

4.2 Band66_PAPR

4.2.1 Test Result

Band: 66 / NTNV							
Signal			TX Type	ANT	PAPR (dB)		Verdict
Type	Level (dBm)	Frequency (MHz)			Result	Limit	
AWGN	-3	2171.2	SISO	1	8.28	<=13	Pass
	0	2171.2	SISO	1	8.31	<=13	Pass
GMSK	-3	2171.2	SISO	1	0.19	<=13	Pass
	0	2171.2	SISO	1	0.21	<=13	Pass

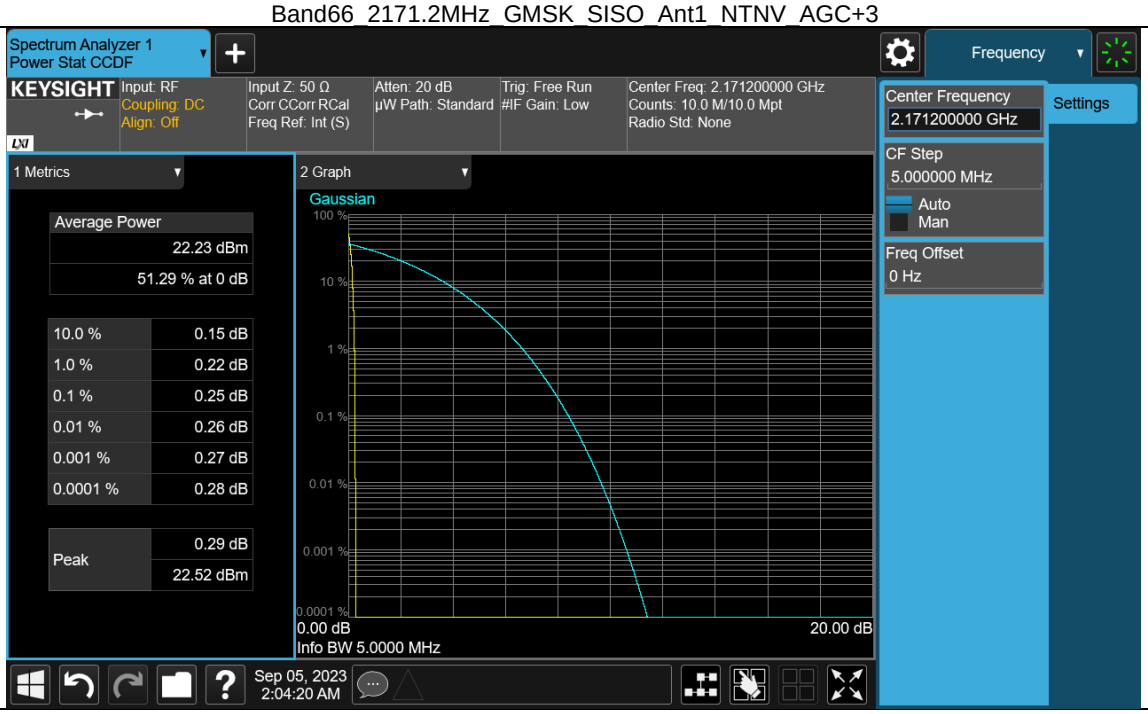
4.2.2 Test Graph

Band66_2171.2MHz_AWGN_SISO_Ant1_NTNV_AGC

Band66_2171.2MHz_AWGN_SISO_Ant1_NTNV_AGC+3

Band66_2171.2MHz_GMSK_SISO_Ant1_NTNV_AGC

Band66_2171.2MHz_GMSK_SISO_Ant1_NTNV_AGC+3



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

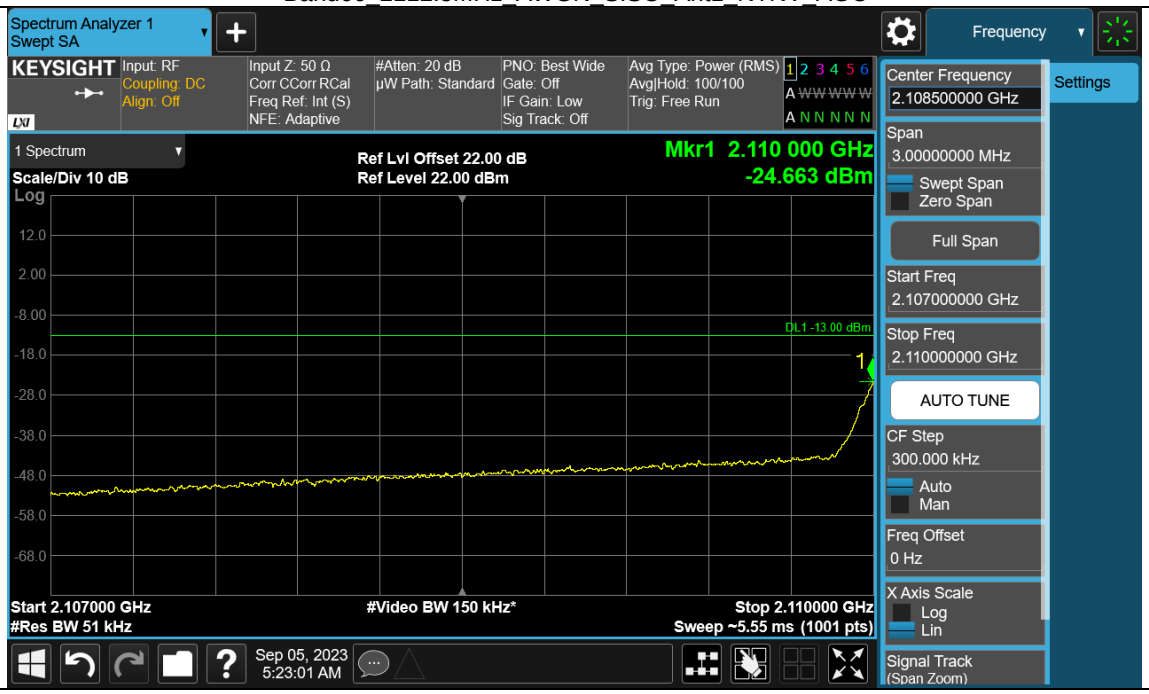
5.1 Band66

5.1.1 Test Result

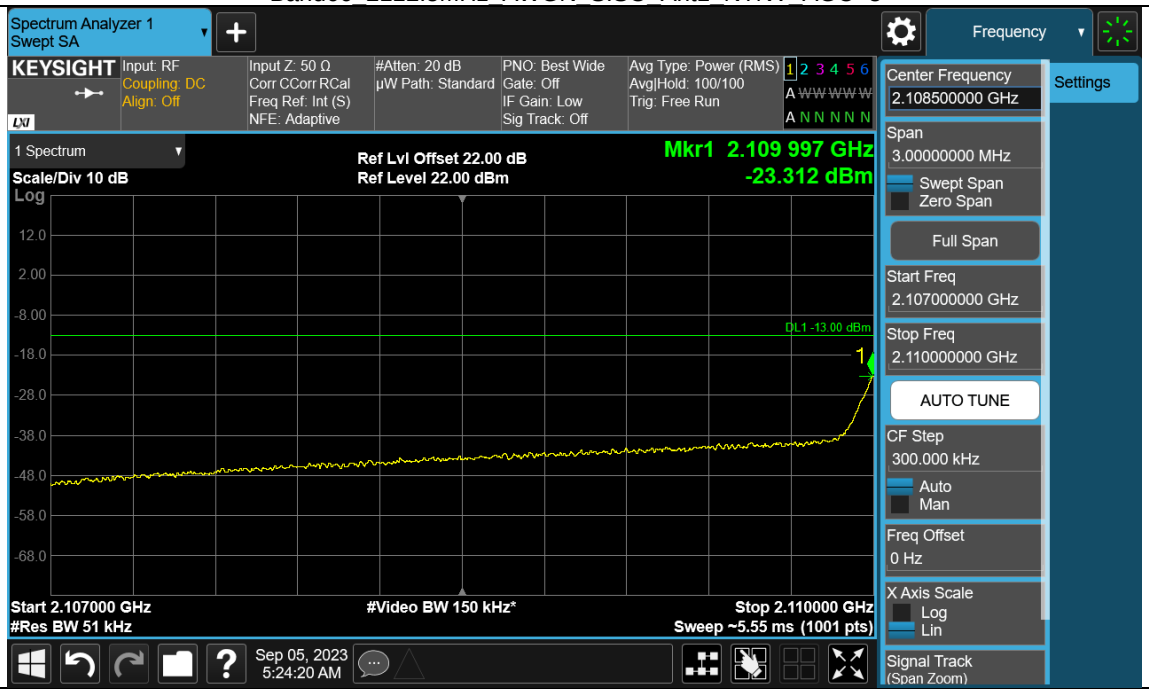
Band: 66 / NTNV									
Signal				Channel	TX Type	ANT	OOB (dBm)		Verdict
Input	Type	Level (dBm)	Frequency (MHz)				Result	Limit	
Two	AWGN	-3	2112.5	LCH	SISO	1	-24.663	Refer To Test Graph	Pass
		0	2112.5	LCH	SISO	1	-23.312	Refer To Test Graph	Pass
One	AWGN	-3	2112.5	LCH	SISO	1	-25.422	Refer To Test Graph	Pass
		0	2112.5	LCH	SISO	1	-24.751	Refer To Test Graph	Pass
Two	AWGN	-3	2177.5	HCH	SISO	1	-22.165	Refer To Test Graph	Pass
		0	2177.5	HCH	SISO	1	-21.570	Refer To Test Graph	Pass
One	AWGN	-3	2177.5	HCH	SISO	1	-22.742	Refer To Test Graph	Pass
		0	2177.5	HCH	SISO	1	-21.512	Refer To Test Graph	Pass
Two	GMSK	-3	2110.2	LCH	SISO	1	-34.562	Refer To Test Graph	Pass
		0	2110.2	LCH	SISO	1	-32.284	Refer To Test Graph	Pass
One	GMSK	-3	2110.2	LCH	SISO	1	-34.908	Refer To Test Graph	Pass
		0	2110.2	LCH	SISO	1	-32.241	Refer To Test Graph	Pass
Two	GMSK	-3	2179.8	HCH	SISO	1	-34.016	Refer To Test Graph	Pass
		0	2179.8	HCH	SISO	1	-30.327	Refer To Test Graph	Pass
One	GMSK	-3	2179.8	HCH	SISO	1	-32.614	Refer To Test Graph	Pass
		0	2179.8	HCH	SISO	1	-31.076	Refer To Test Graph	Pass

5.1.2 Test Graph

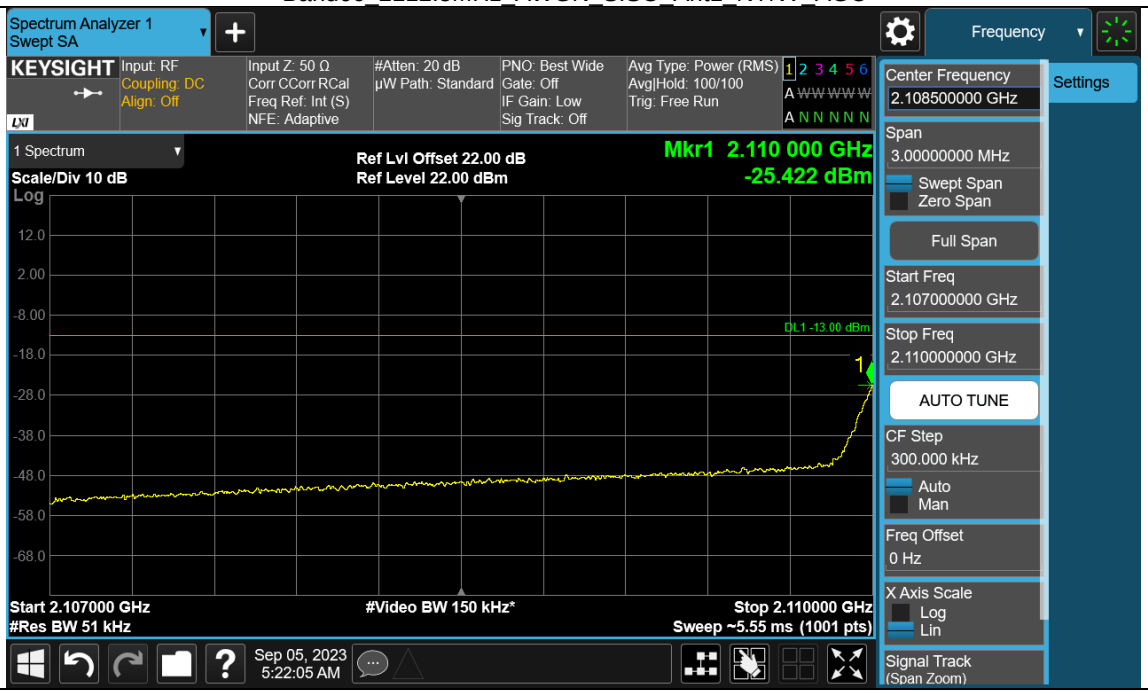
Band66_2112.5MHz_AWGN_SISO_Ant1_NTNV_AGC



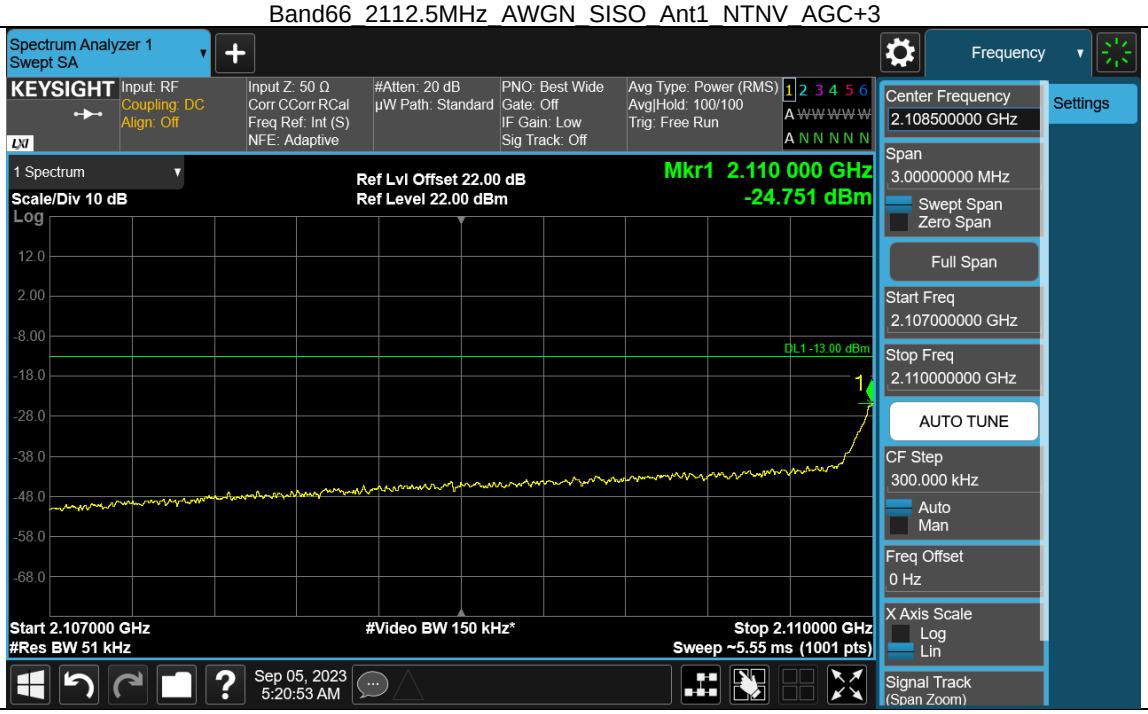
Band66_2112.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



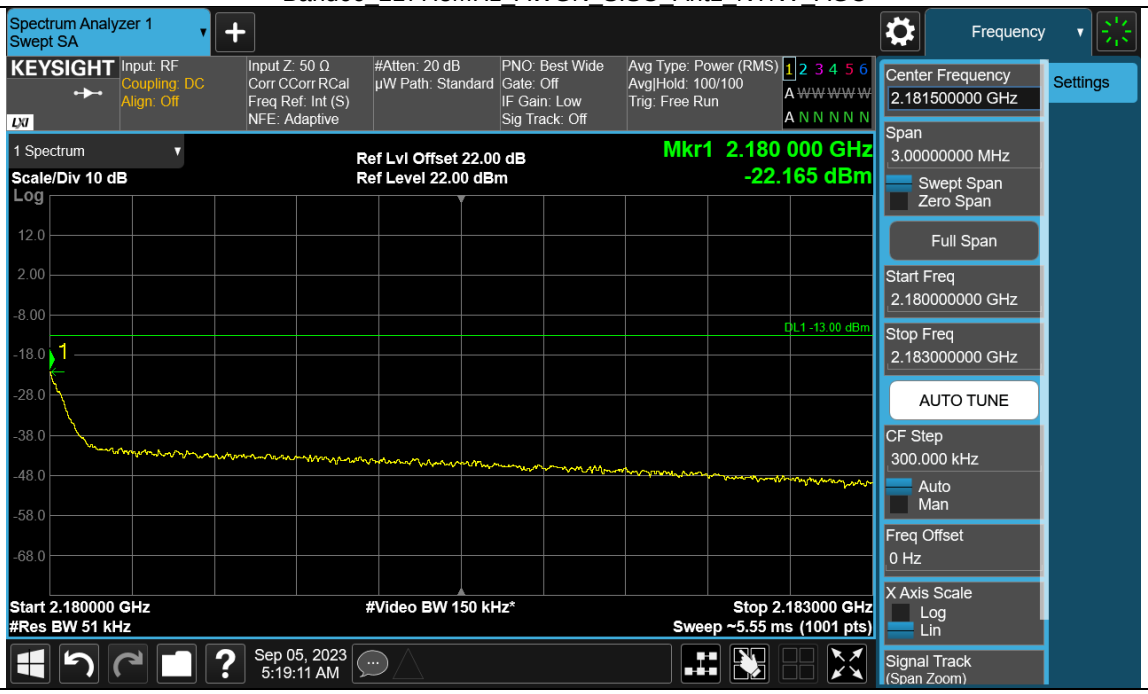
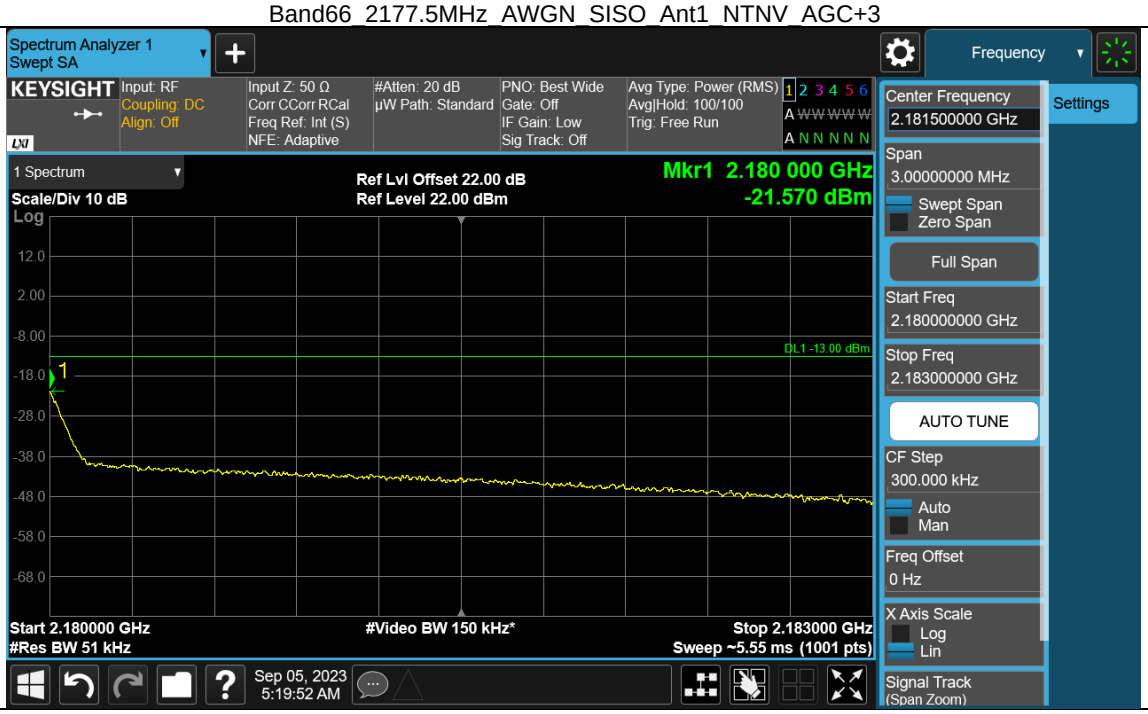
Band66_2112.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Band66_2112.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Band66_2177.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Band66_2177.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3