

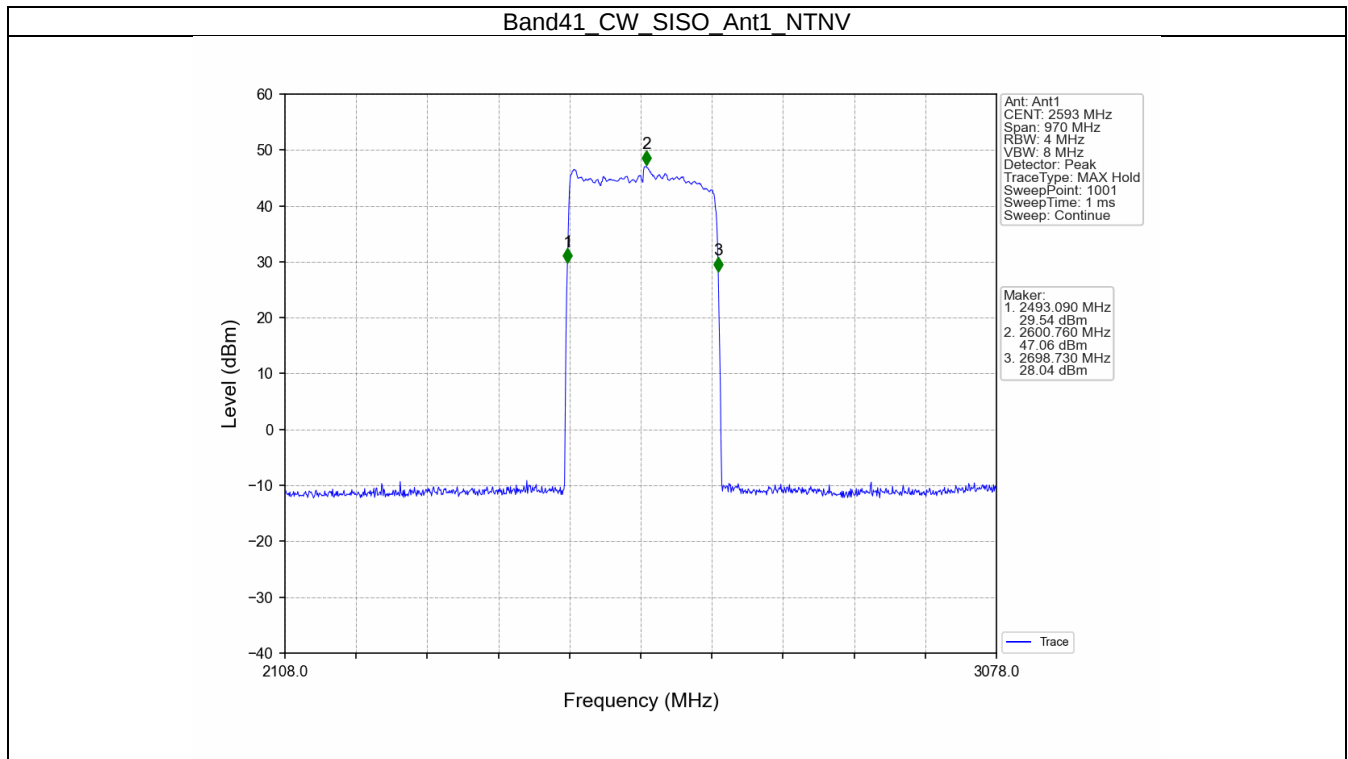
1. Out of band rejection

1.1 Band41

1.1.1 Test Result

Band: 41 / NTNV							
Signal	Sweep Frequency Range (MHz)	TX Type	ANT	F0 (MHz)	FL (MHz)	FH (MHz)	Verdict
CW	2108 - 3078	SISO	1	2600.760	2493.090	2698.730	Pass

1.1.2 Test Graph



2. AGC threshold

2.1 Band41

2.1.1 Test Result

Band: 41 / NTNV					
Signal	Frequency (MHz)	TX Type	ANT	AGC Threshold (dBm)	Verdict
GMSK 0.2MHz	2600.76	SISO	1	-3.50	Pass
AWGN 5MHz	2600.76	SISO	1	-3.50	Pass
AWGN 100MHz	2600.76	SISO	1	-3.50	Pass

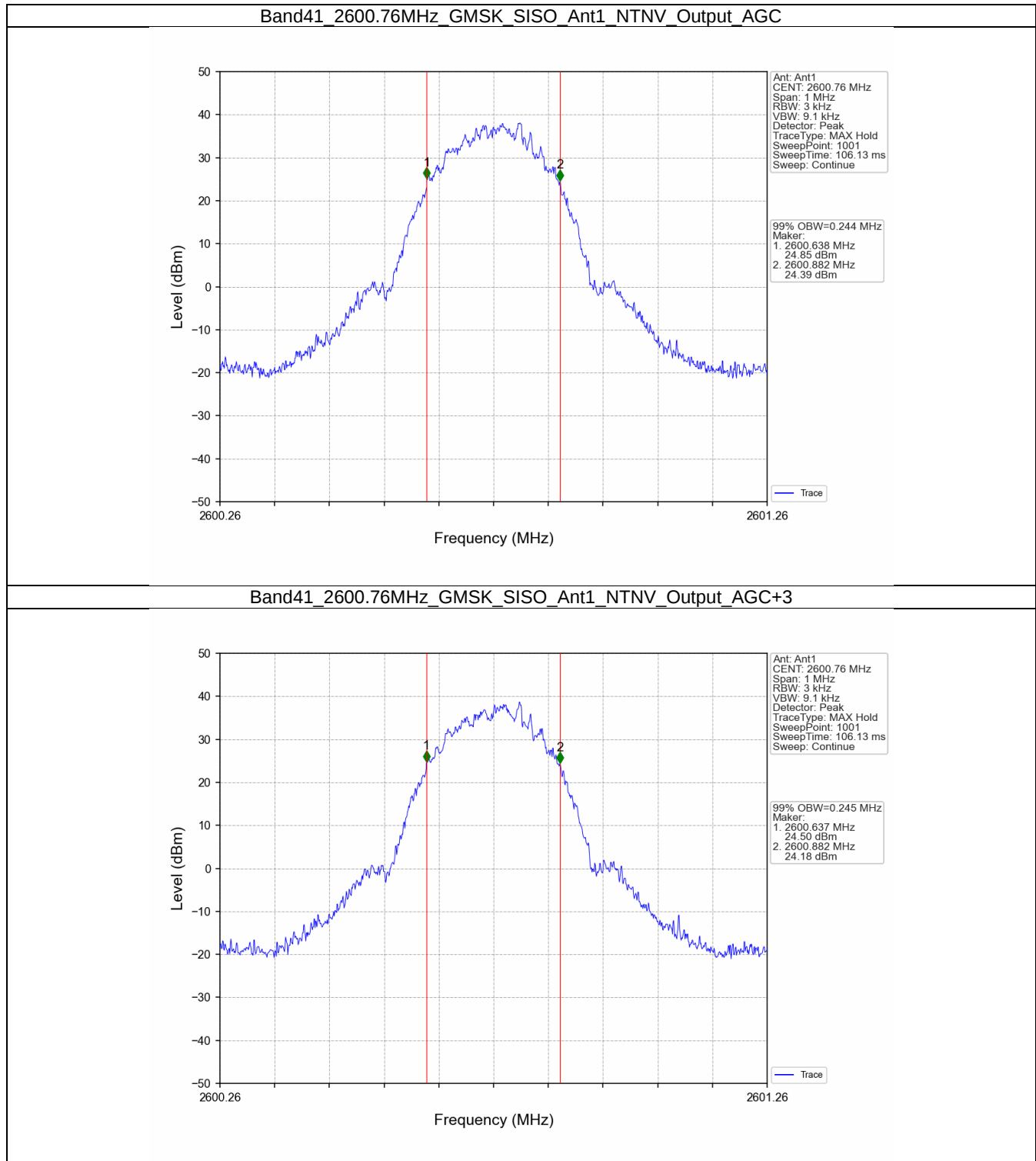
3. Input-versus-output signal comparison

3.1 Band41_OBW

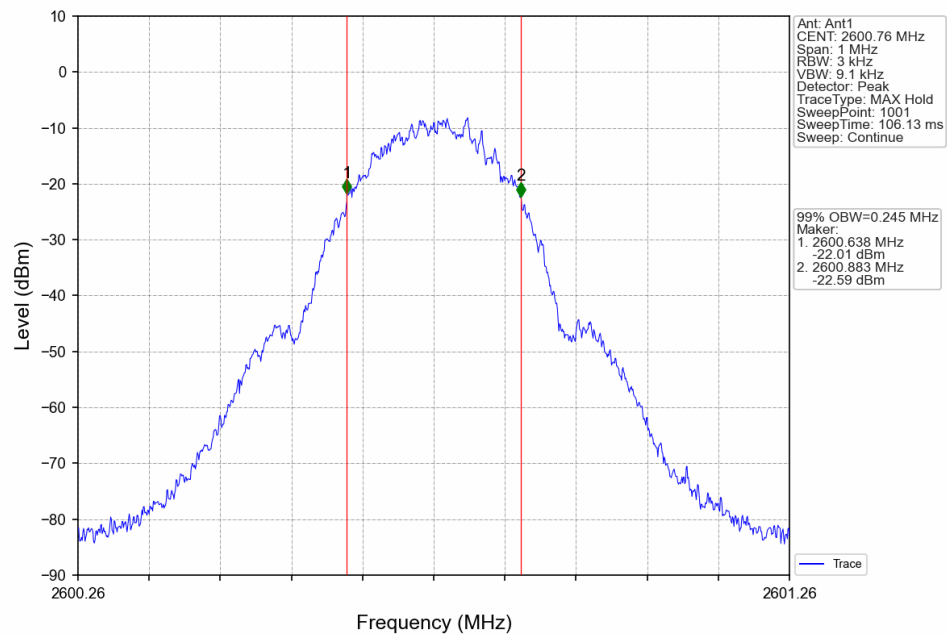
3.1.1 Test Result

Band: 41 / NTNV							
Signal			TX Type	ANT	99% OBW (MHz)		Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	
GMSK 0.2MHz	-0.5	2600.76	SISO	1	0.244	0.245	Pass
	-3.5	2600.76	SISO	1	0.245	0.244	Pass
AWGN 5MHz	-0.5	2600.76	SISO	1	4.545	4.526	Pass
	-3.5	2600.76	SISO	1	4.544	4.530	Pass
AWGN 100MHz	-0.5	2600.76	SISO	1	98.320	97.144	Pass
	-3.5	2600.76	SISO	1	98.183	97.168	Pass

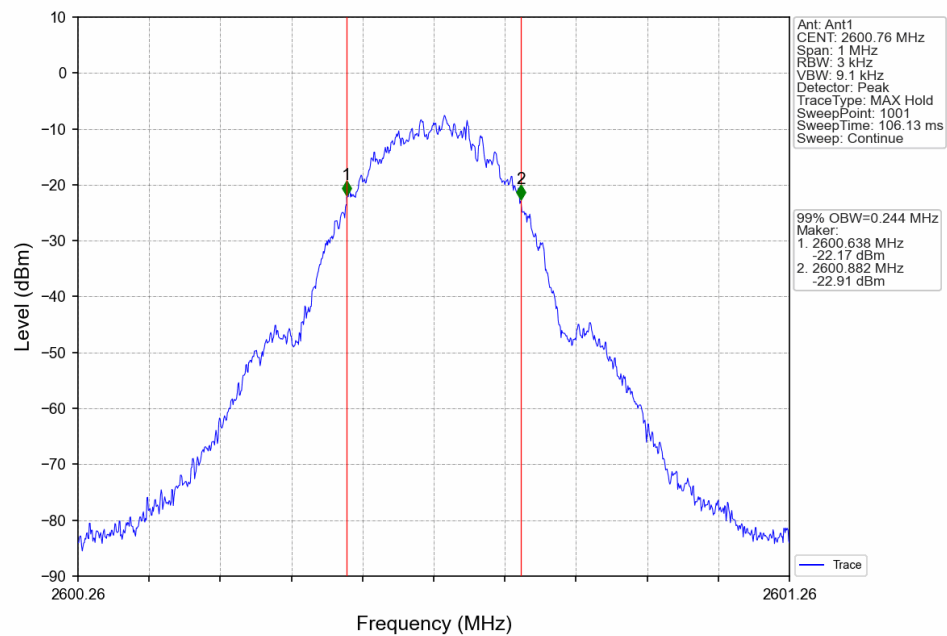
3.1.2 Test Graph



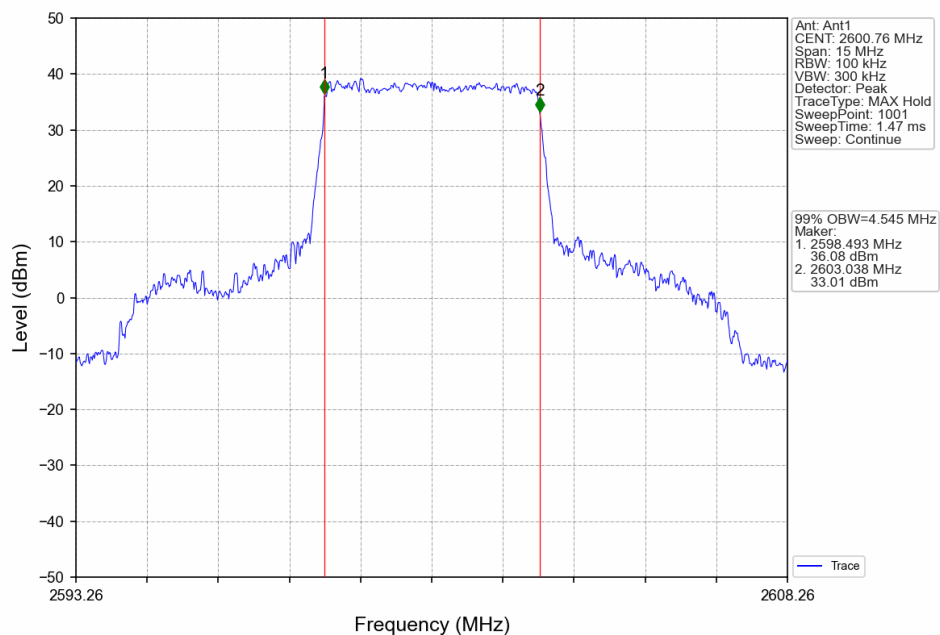
Band41_2600.76MHz_GMSK_SISO_Ant1_NTNV_Input_AGC



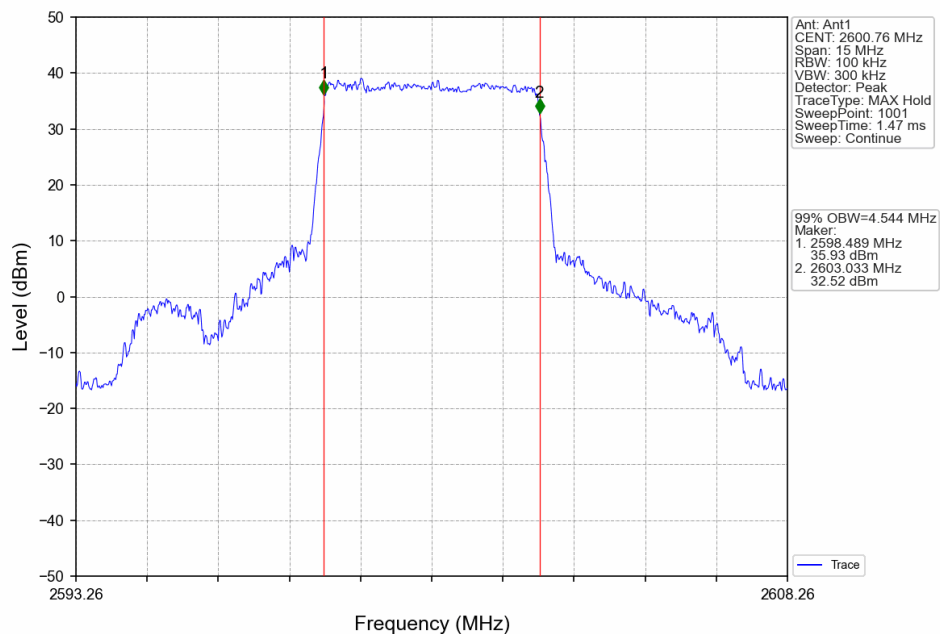
Band41_2600.76MHz_GMSK_SISO_Ant1_NTNV_Input_AGC+3



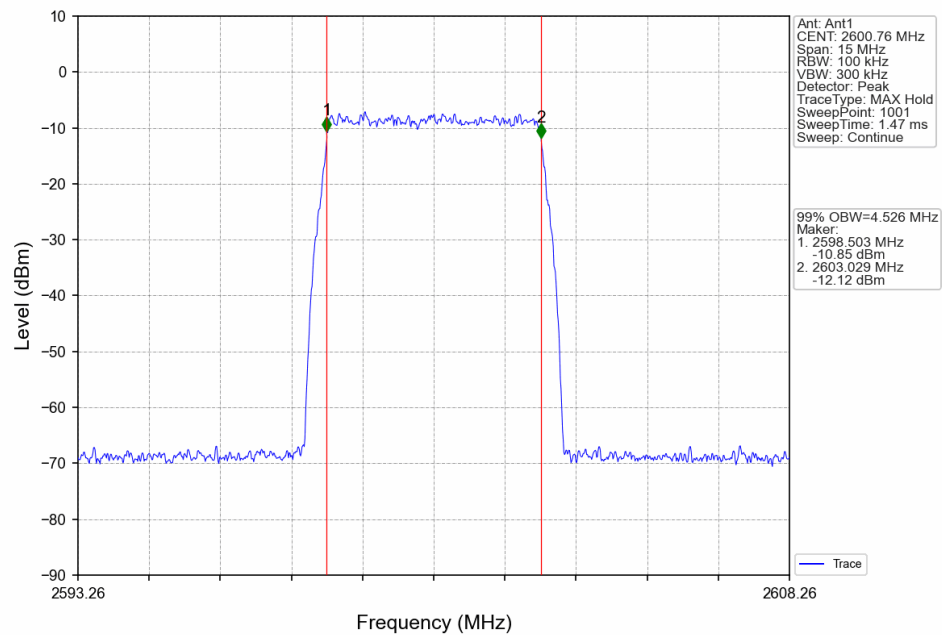
Band41_2600.76MHz_AWGN_SISO_Ant1_NTNV_Output_AGC



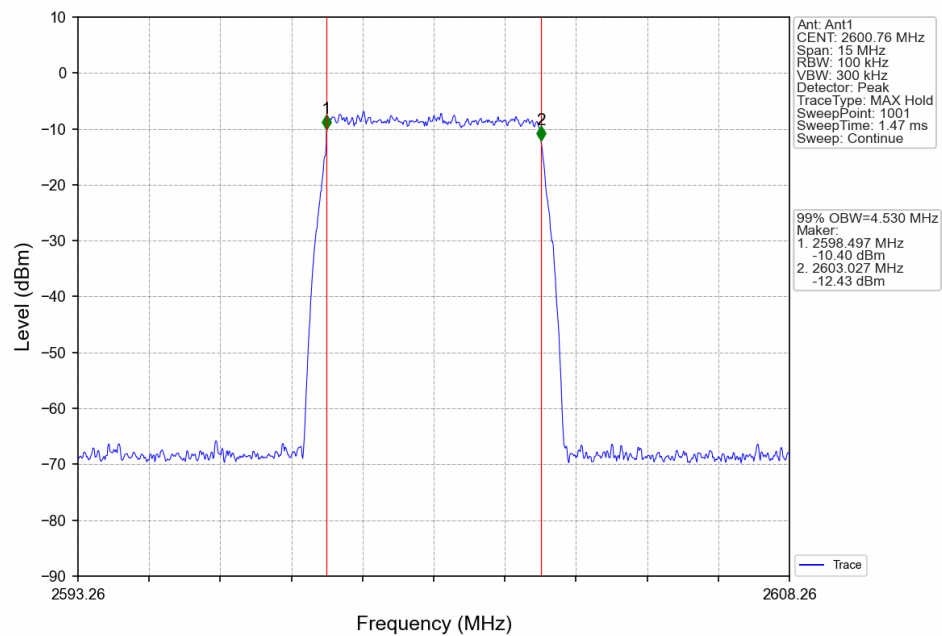
Band41_2600.76MHz_AWGN_SISO_Ant1_NTNV_Output_AGC+3



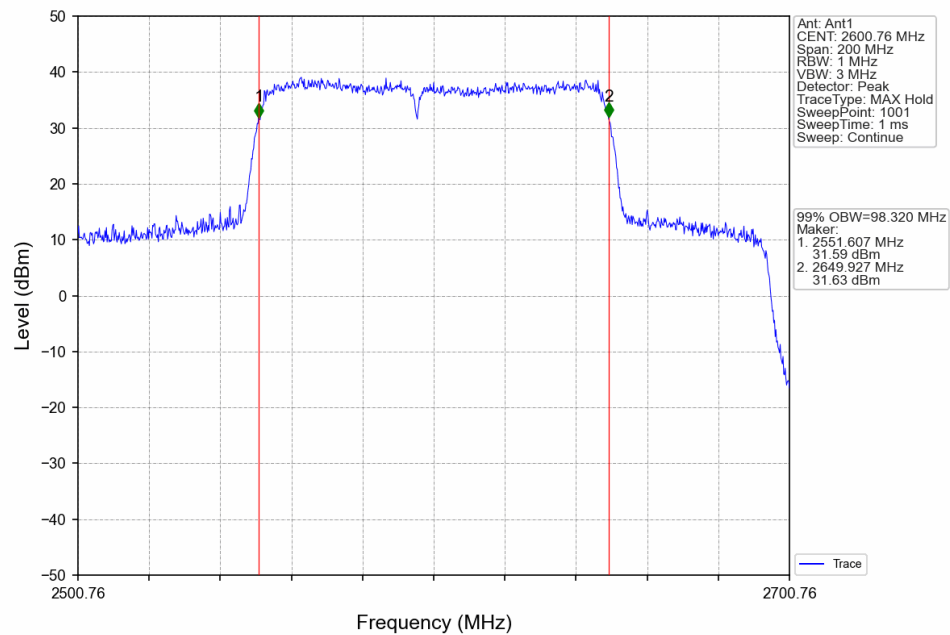
Band41_2600.76MHz_AWGN_SISO_Ant1_NTNV_Input_AGC



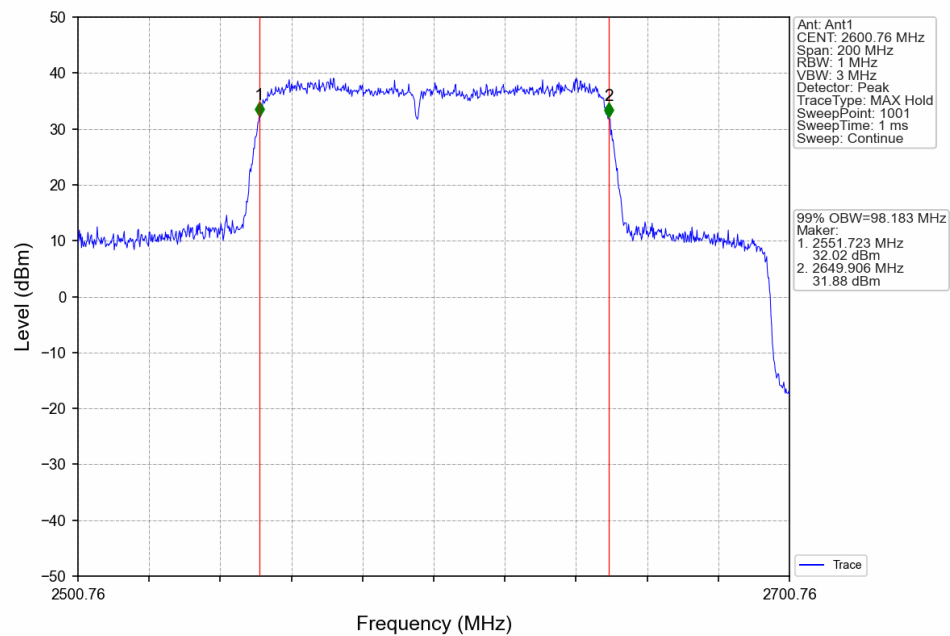
Band41_2600.76MHz_AWGN_SISO_Ant1_NTNV_Input_AGC+3



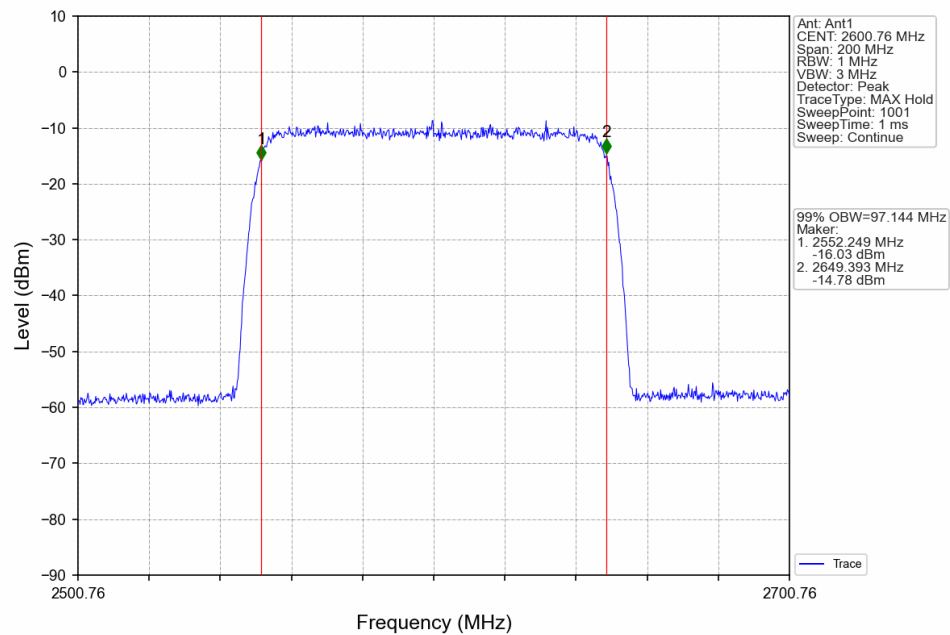
Band41_2600.76MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC



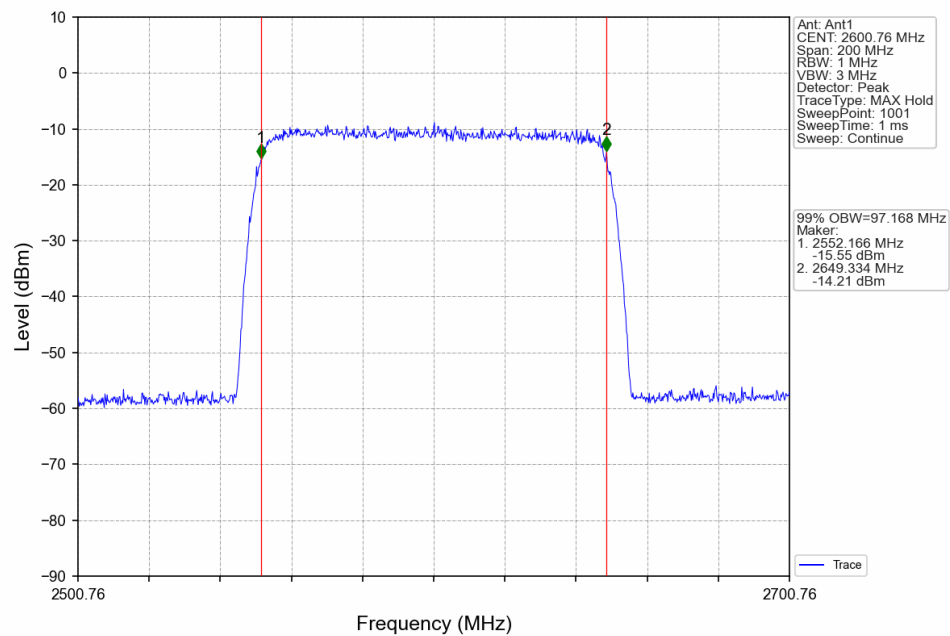
Band41_2600.76MHz_Broad100MHz_SISO_Ant1_NTNV_Output_AGC+3



Band41_2600.76MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC



Band41_2600.76MHz_Broad100MHz_SISO_Ant1_NTNV_Input_AGC+3

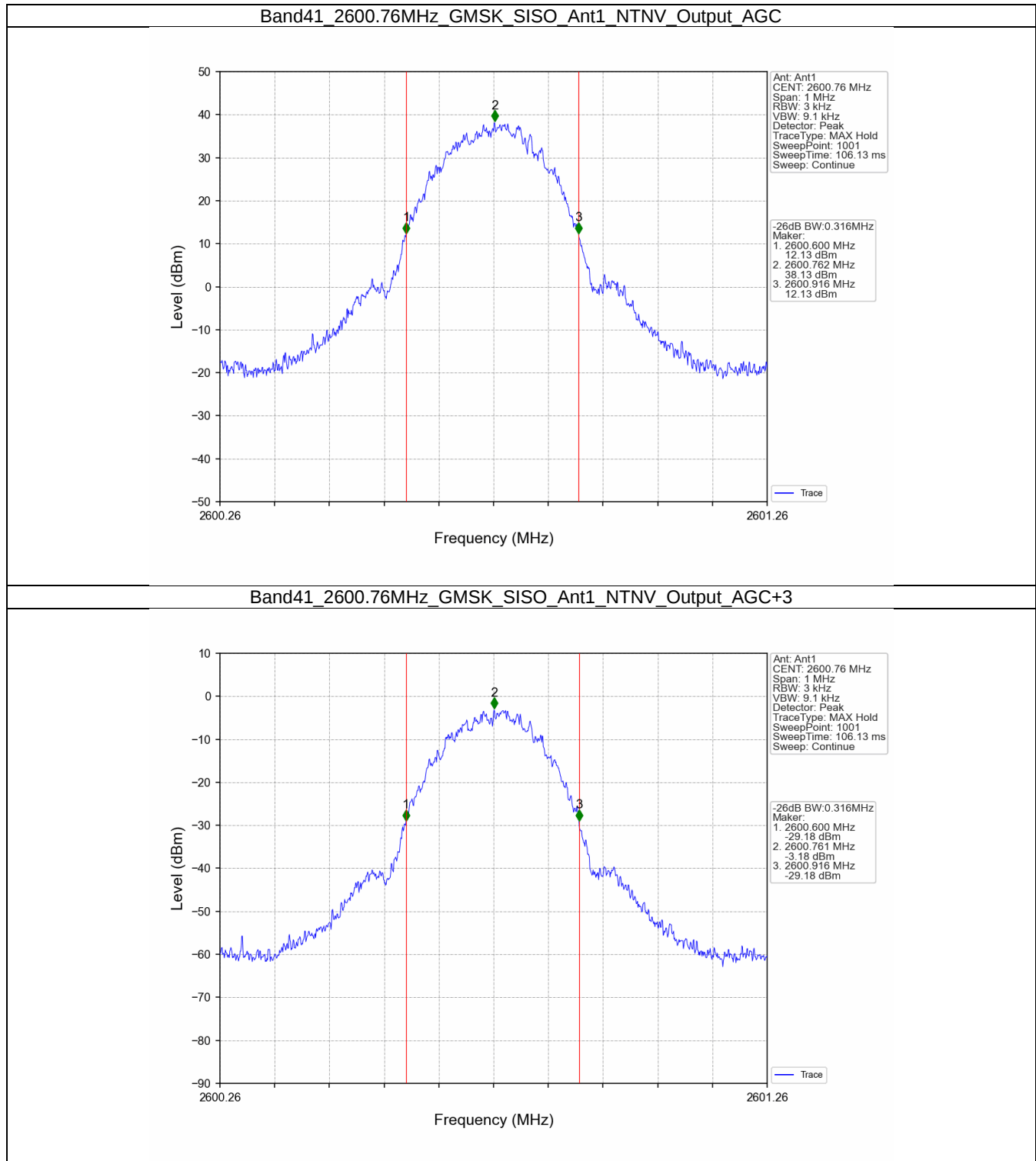


3.2 Band41_EBW

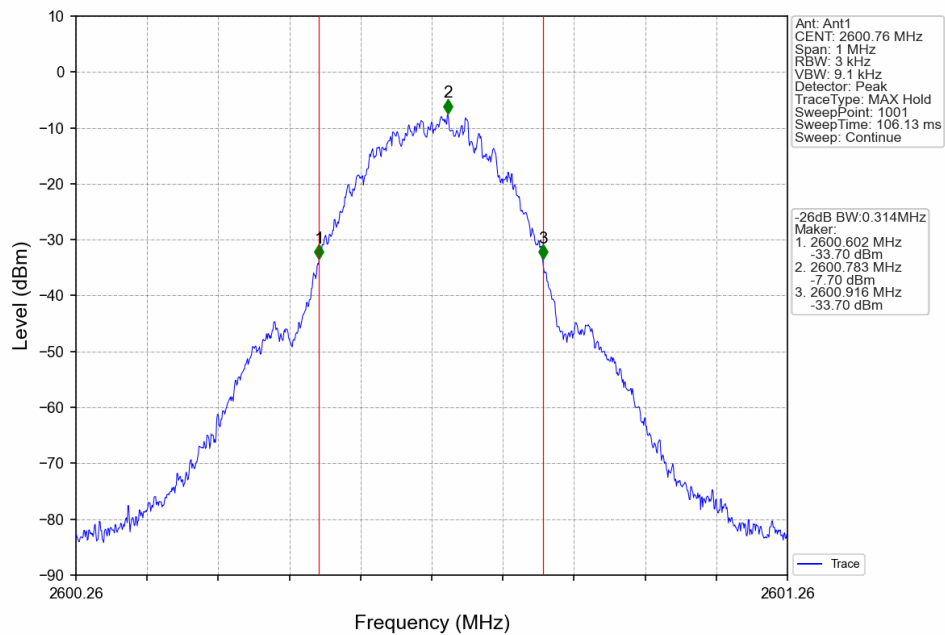
3.2.1 Test Result

Band: 41 / NTNV							
Signal			TX Type	ANT	26dB EBW (MHz)		Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	
GMSK 0.2MHz	-0.5	2600.76	SISO	1	0.316	0.314	Pass
	-3.5	2600.76	SISO	1	0.316	0.315	Pass
AWGN 5MHz	-0.5	2600.76	SISO	1	5.064	5.049	Pass
	-3.5	2600.76	SISO	1	5.073	5.069	Pass
AWGN 100MHz	-0.5	2600.76	SISO	1	101.696	100.750	Pass
	-3.5	2600.76	SISO	1	101.294	100.810	Pass

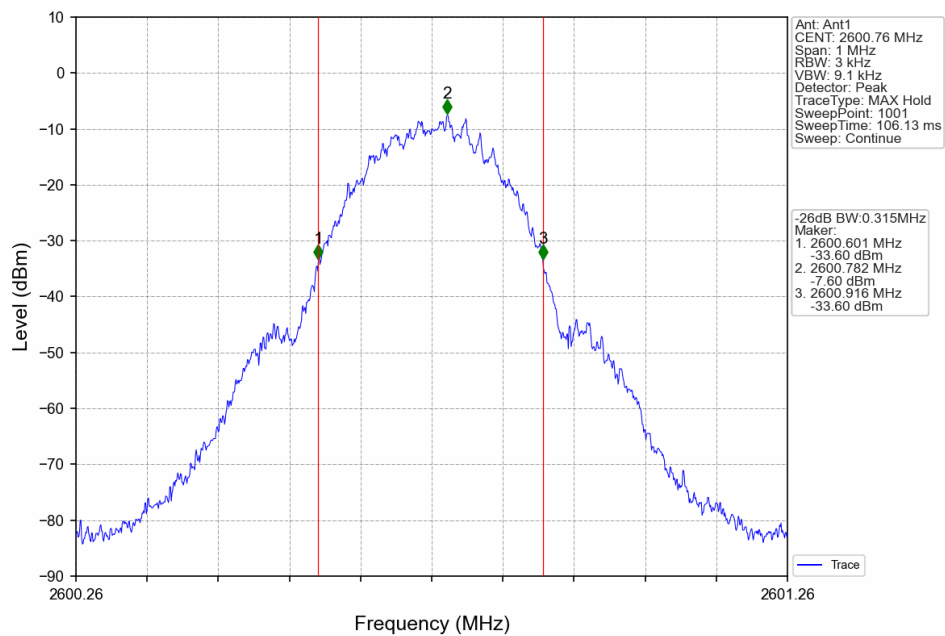
3.2.2 Test Graph



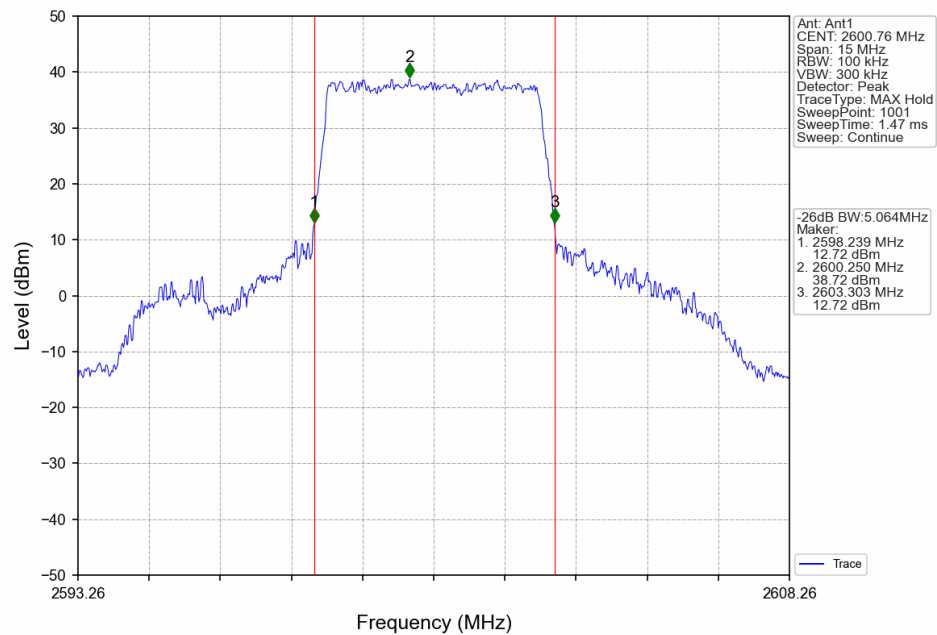
Band41_2600.76MHz_GMSK_SISO_Ant1_NTNV_Input_AGC



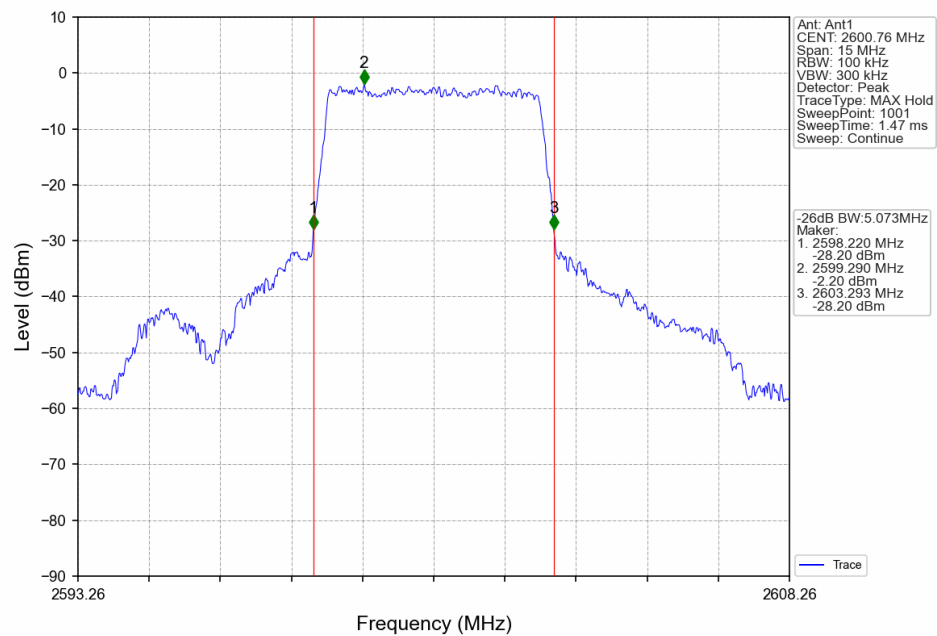
Band41_2600.76MHz_GMSK_SISO_Ant1_NTNV_Input_AGC+3



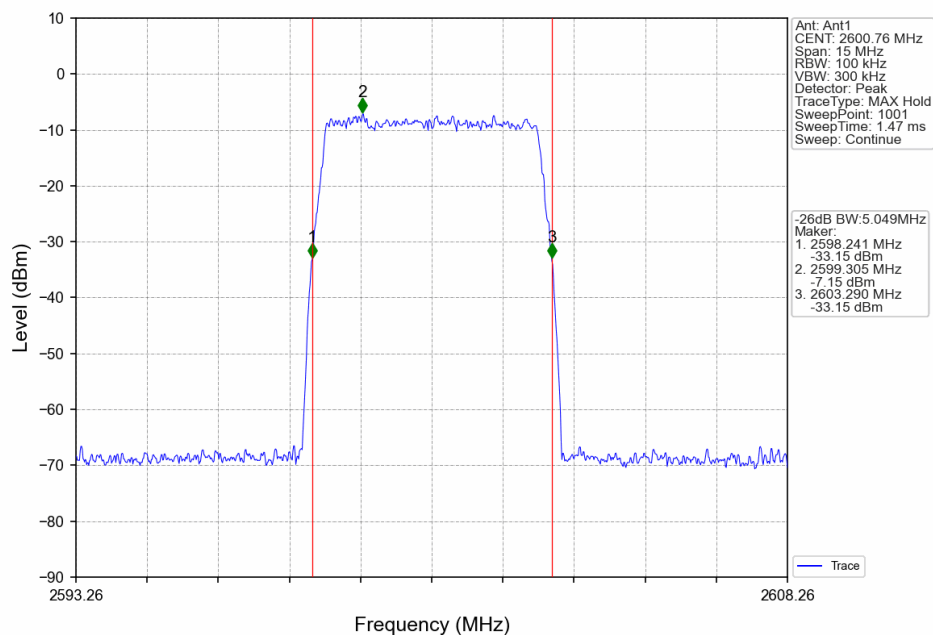
Band41_2600.76MHz_AWGN_SISO_Ant1_NTNV_Output_AGC



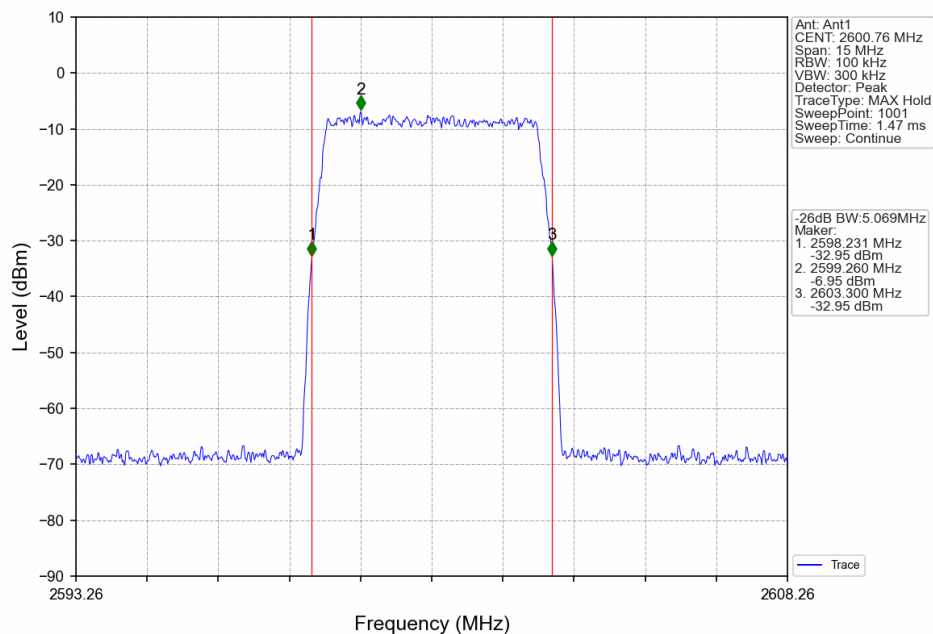
Band41_2600.76MHz_AWGN_SISO_Ant1_NTNV_Output_AGC+3



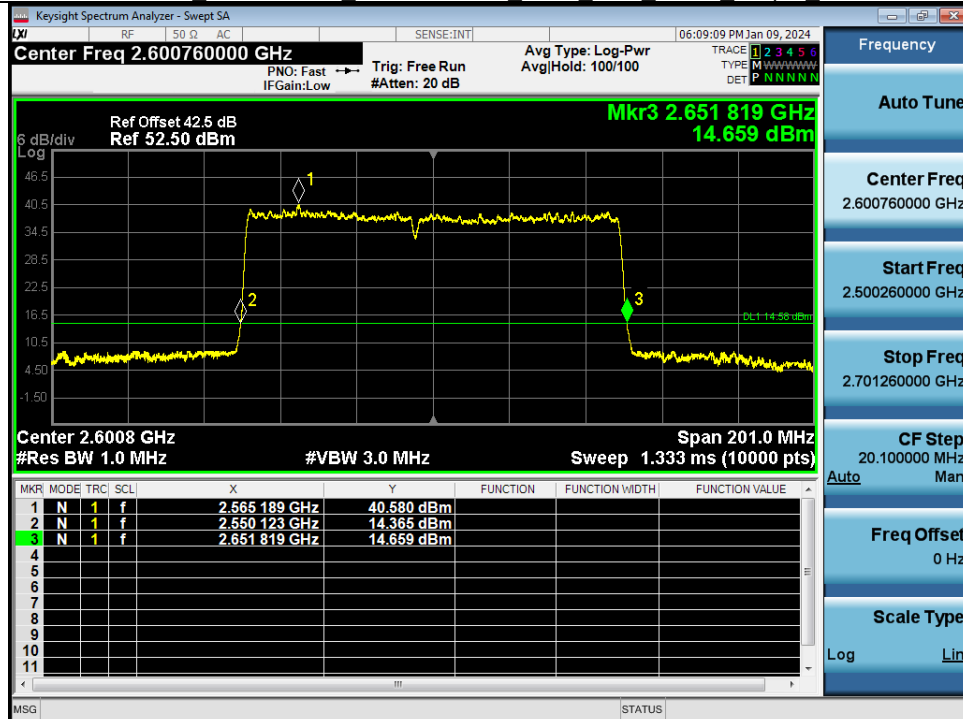
Band41_2600.76MHz_AWGN_SISO_Ant1_NTNV_Input_AGC



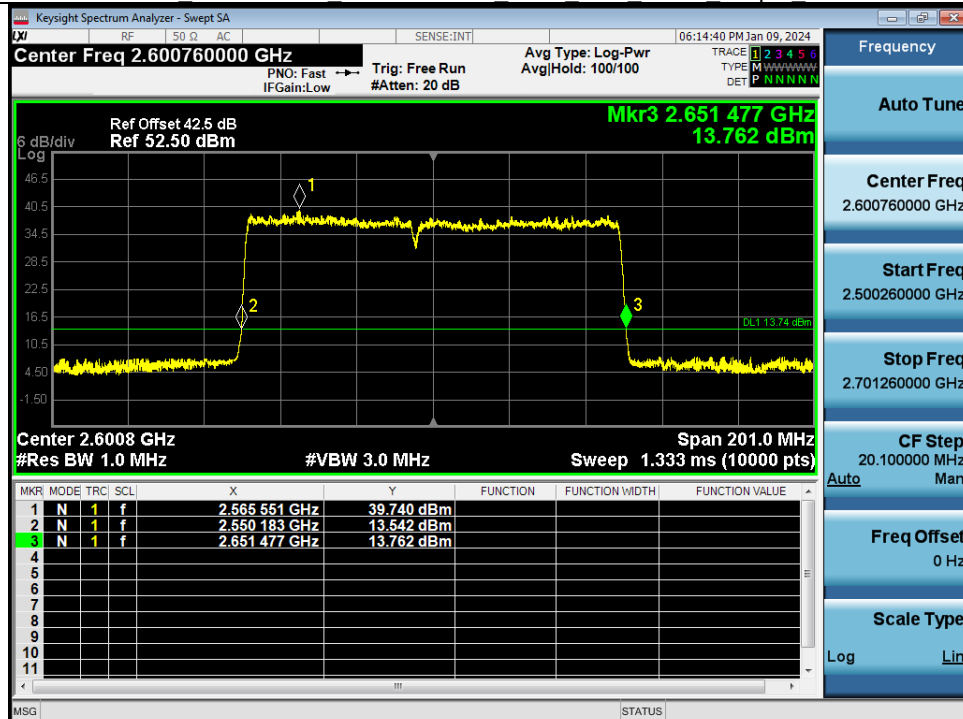
Band41_2600.76MHz_AWGN_SISO_Ant1_NTNV_Input_AGC+3



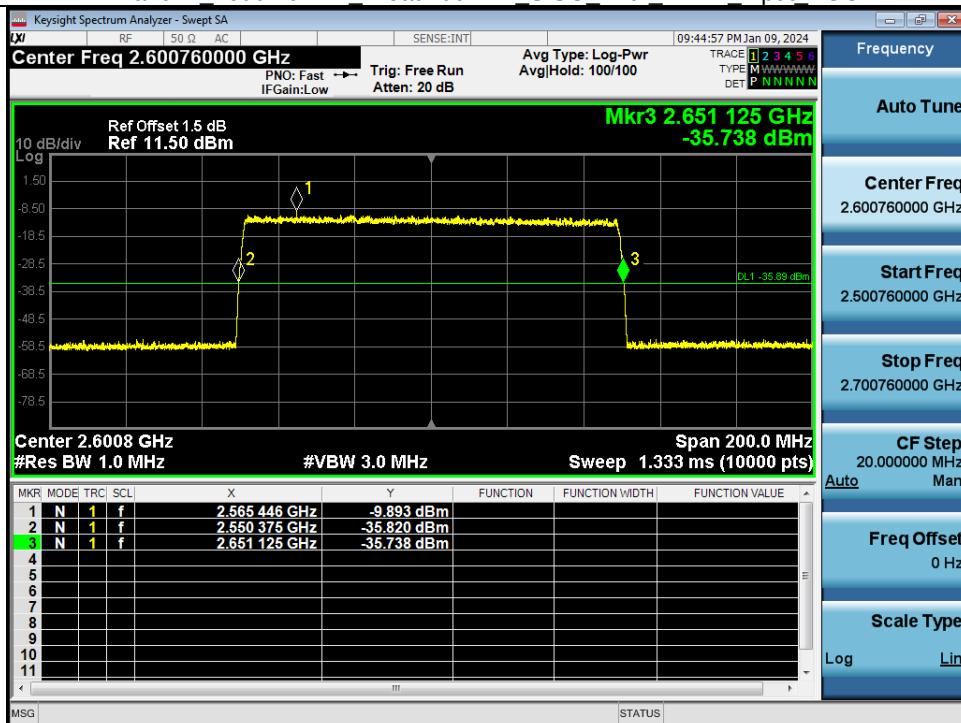
Band41_ 2600.76MHz Broad100MHz SISO Ant1 NTVN Output AGC



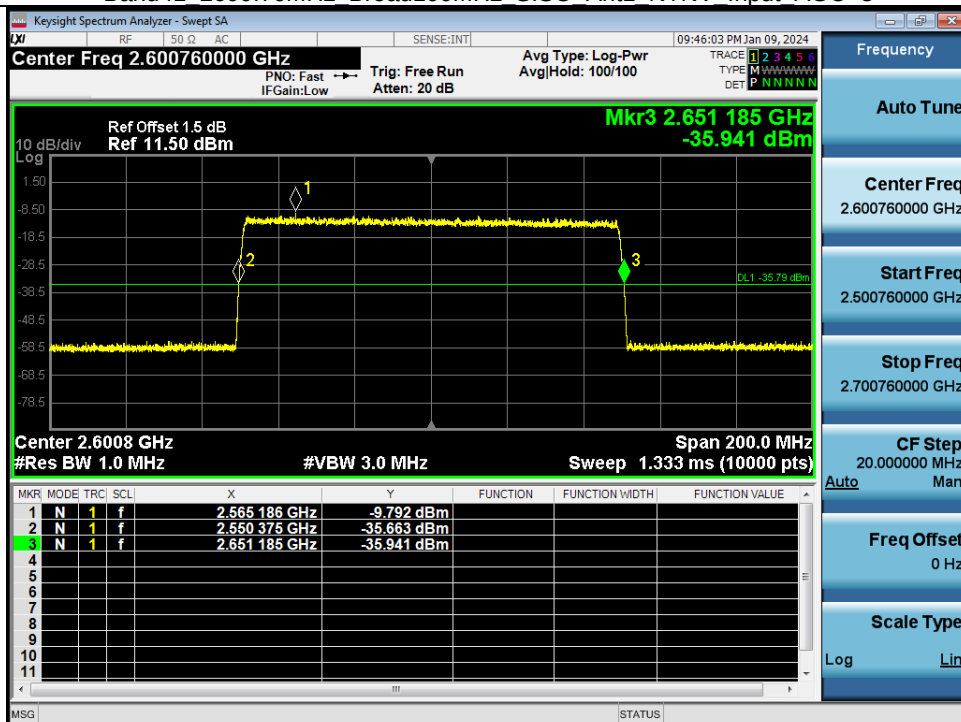
Band41_ 2600.76MHz Broad100MHz SISO Ant1 NTVN Output AGC+3



Band41 2600.76MHz Broad100MHz SISO Ant1 NTN Input AGC



Band41 2600.76MHz Broad100MHz SISO Ant1 NTN Input AGC+3



4. Input/output power and amplifier/booster gain

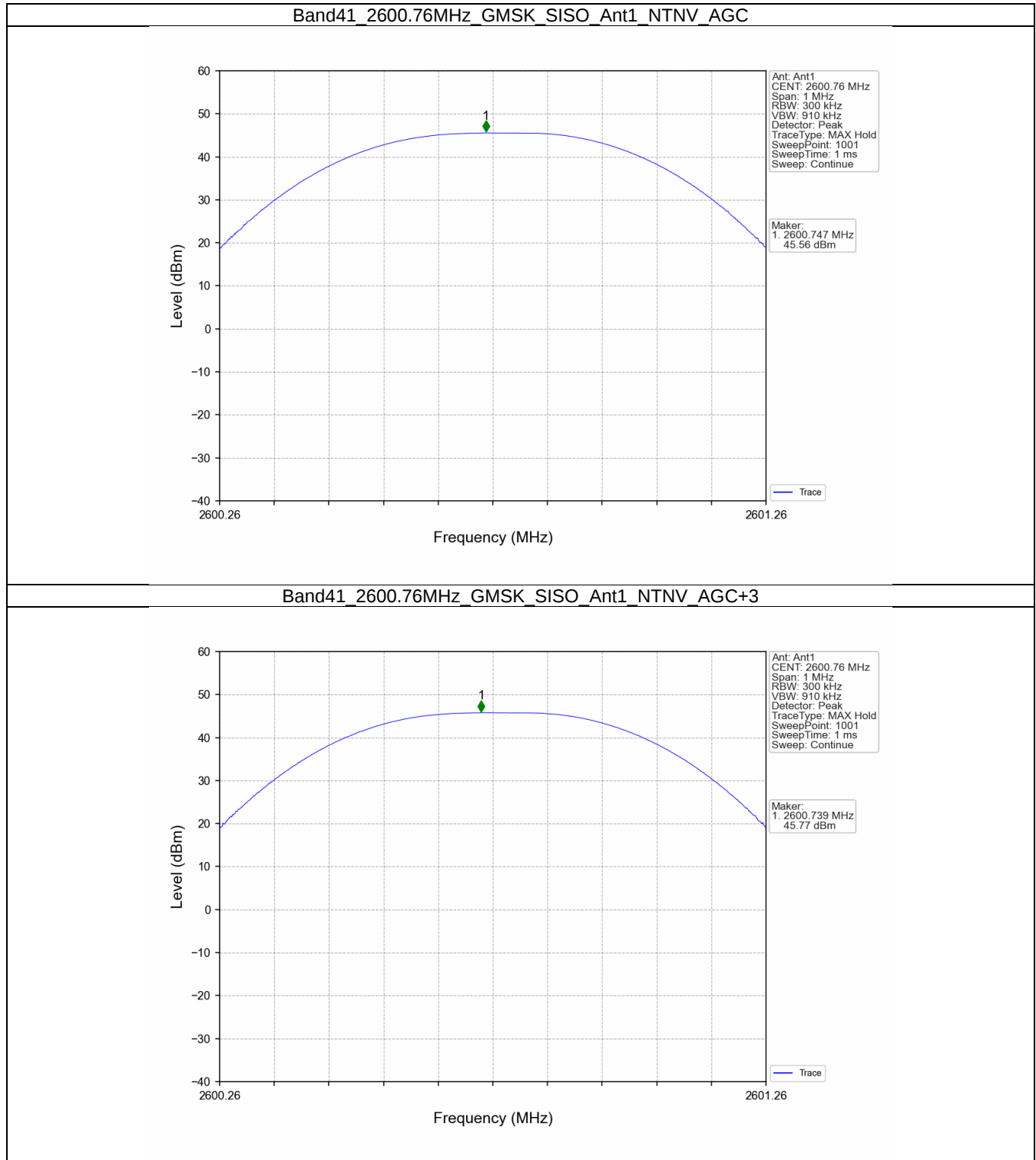
4.1 Band41_EIRP

4.1.1 Test Result

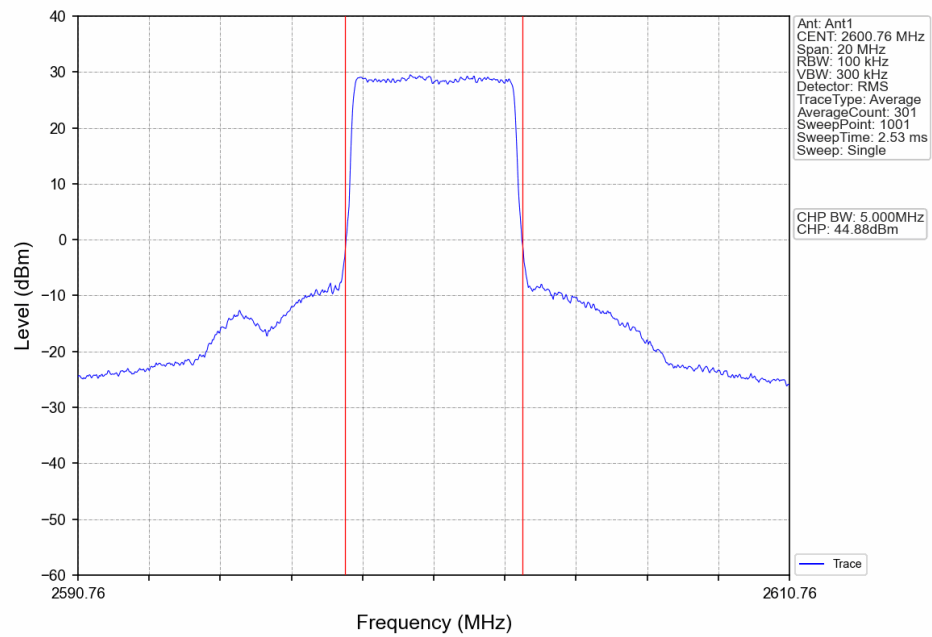
Band: 41 / NTNV										
Signal			TX Type	ANT	Conducted Power (dBm)		EIRP (dBm)		Booster Gain (dB)	Verdict
Type	Level (dBm)	Frequency (MHz)			Output	Input	Result	Limit		
GMSK 0.2MHz	-3.5	2600.76	SISO	1	45.56	-2.75	58.56	<=80.22	48.31	Pass
	-0.5	2600.76	SISO	1	45.77	0.65	58.77	<=80.22	/	Pass
AWGN 5MHz	-3.5	2600.76	SISO	1	44.88	-2.98	57.88	<=92.26	47.86	Pass
	-0.5	2600.76	SISO	1	44.68	0.34	57.68	<=92.26	/	Pass
AWGN 100MHz	-3.5	2600.76	SISO	1	46.23	-2.13	59.23	<=107.82	48.36	Pass
	-0.5	2600.76	SISO	1	46.63	0.56	59.63	<=107.82	/	Pass

Band: 41 / NTNV								
Signal			Conducted Power (dBm)		EIRP (dBm)		Limit (dBm)	Verdict
Type	Level (dBm)	Frequency (MHz)	SISO	2*2	SISO	2*2		
GMSK 0.2MHz	-3.5	2600.76	45.56	48.58	58.56	61.58	<=80.22	Pass
	-0.5	2600.76	45.77	48.79	58.77	61.79	<=80.22	Pass
AWGN 5MHz	-3.5	2600.76	44.88	47.90	57.88	60.90	<=92.26	Pass
	-0.5	2600.76	44.68	47.70	57.68	60.70	<=92.26	Pass
AWGN 100MHz	-3.5	2600.76	46.23	49.25	59.23	62.25	<=107.82	Pass
	-0.5	2600.76	46.63	49.65	59.63	62.65	<=107.82	Pass

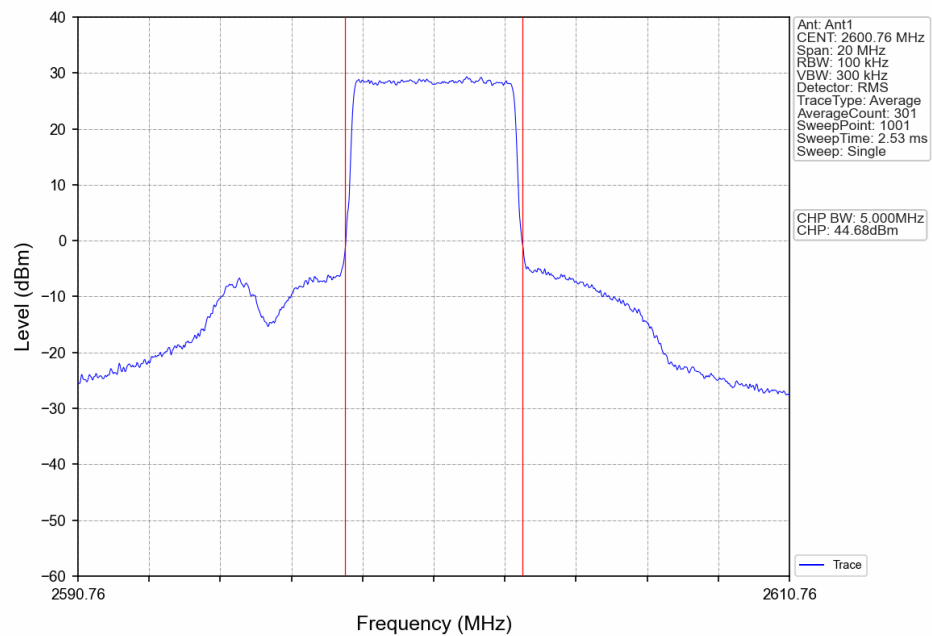
4.1.2 Test Graph



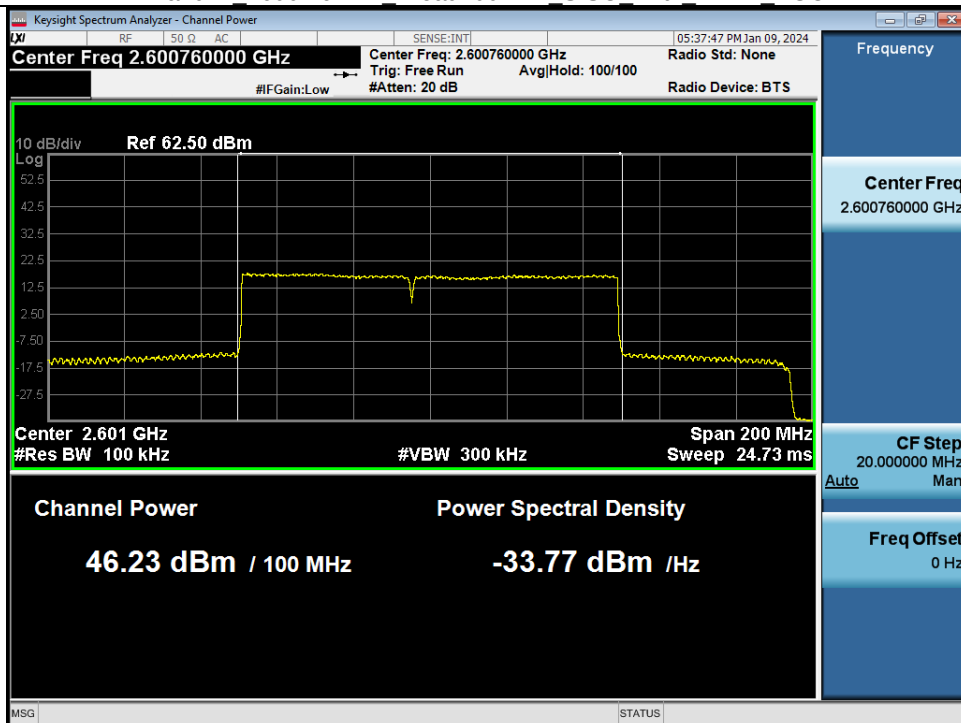
Band41_2600.76MHz_AWGN_SISO_Ant1_NTNV_AGC



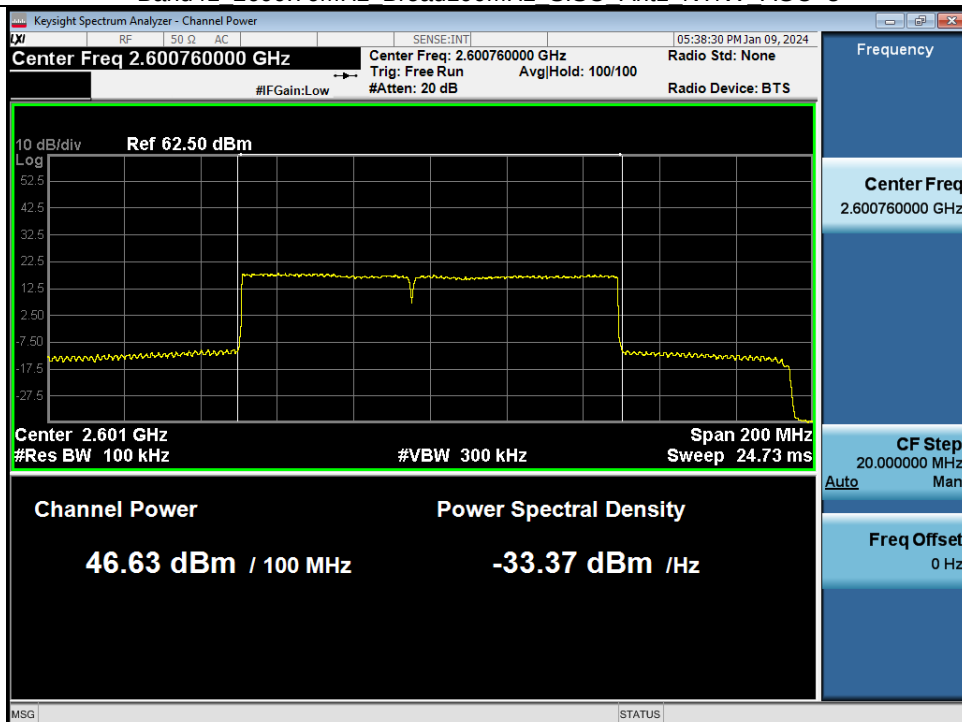
Band41_2600.76MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Band41 2600.76MHz Broad100MHz SISO Ant1 NTN AGC



Band41 2600.76MHz Broad100MHz SISO Ant1 NTN AGC+3

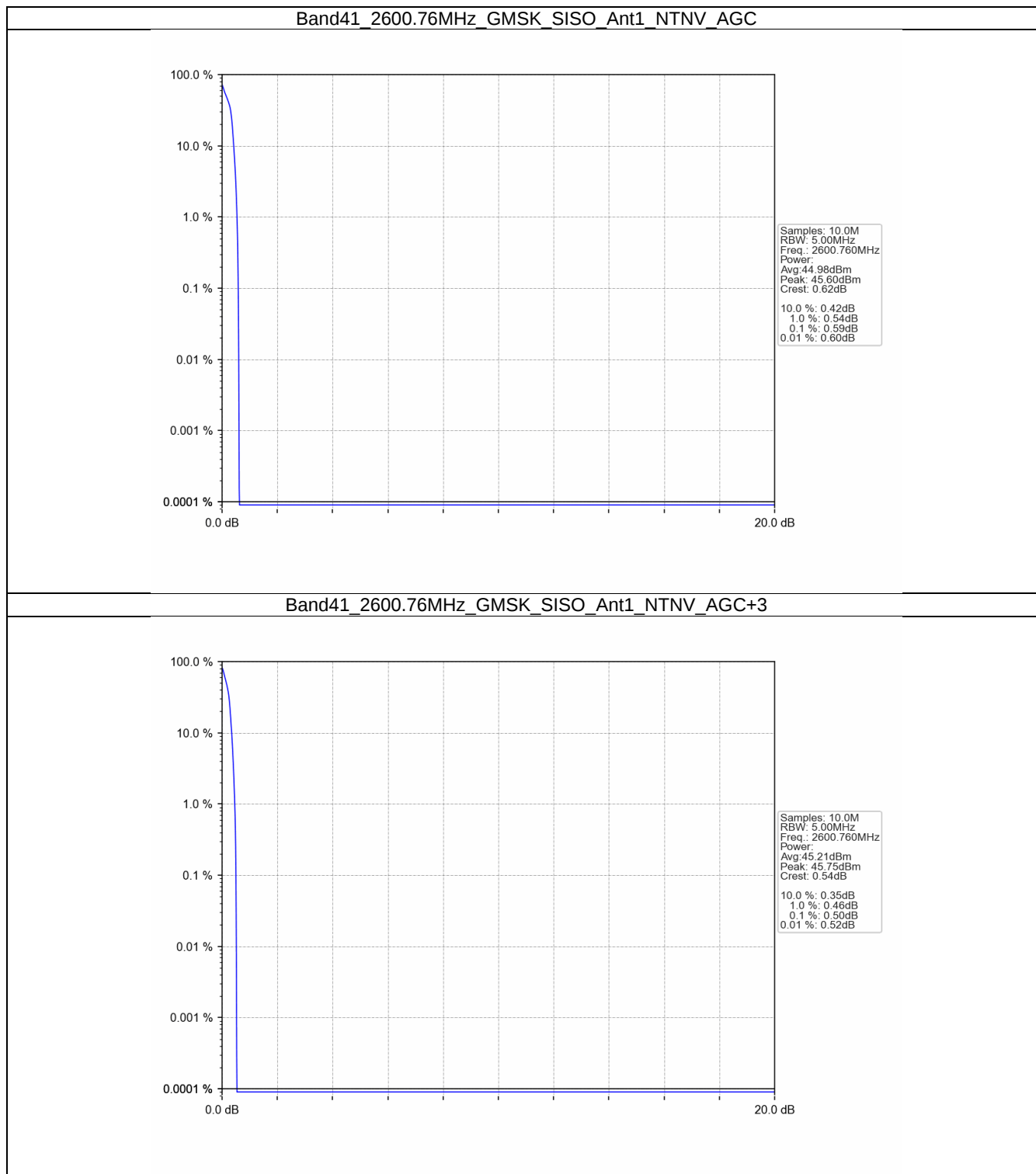


4.2 Band41_PAPR

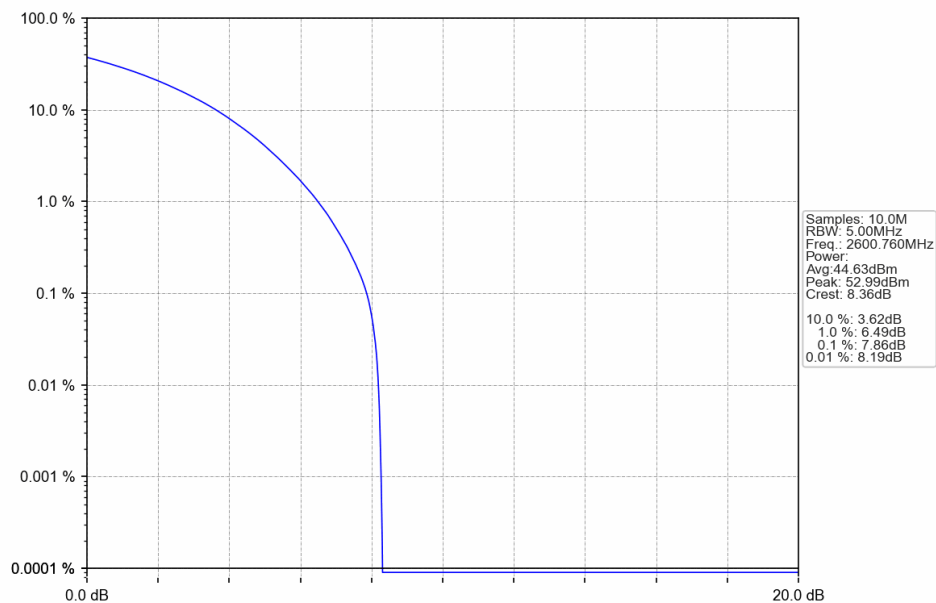
4.2.1 Test Result

Band: 41 / NTNV							
Signal			TX Type	ANT	PAPR (dB)		Verdict
Type	Level (dBm)	Frequency (MHz)			Result	Limit	
GMSK 0.2MHz	-3.5	2600.76	SISO	1	0.59	<=13	Pass
	-0.5	2600.76	SISO	1	0.50	<=13	Pass
AWGN 5MHz	-3.5	2600.76	SISO	1	7.86	<=13	Pass
	-0.5	2600.76	SISO	1	7.62	<=13	Pass
AWGN 100MHz	-3.5	2600.76	SISO	1	8.35	<=13	Pass
	-0.5	2600.76	SISO	1	8.33	<=13	Pass

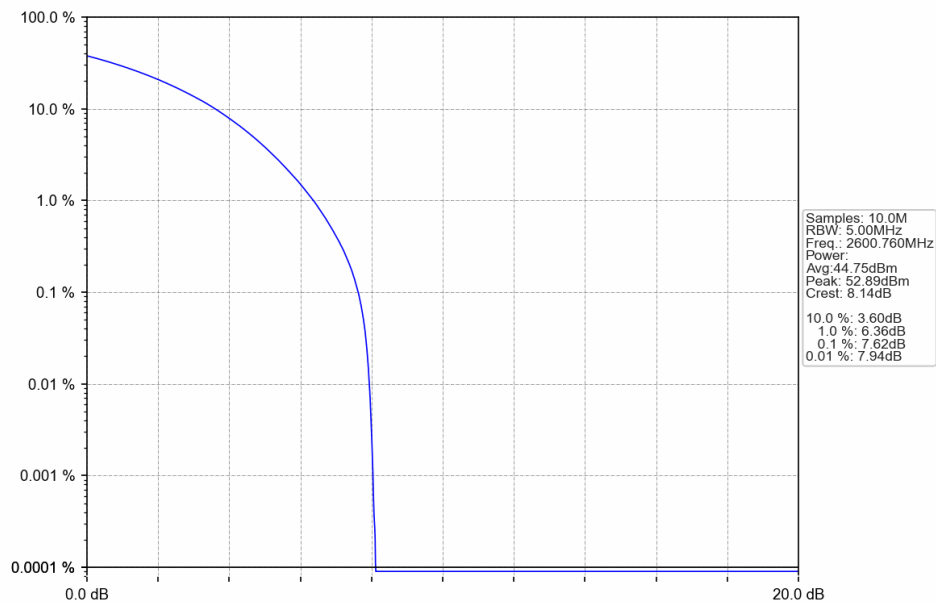
4.2.2 Test Graph



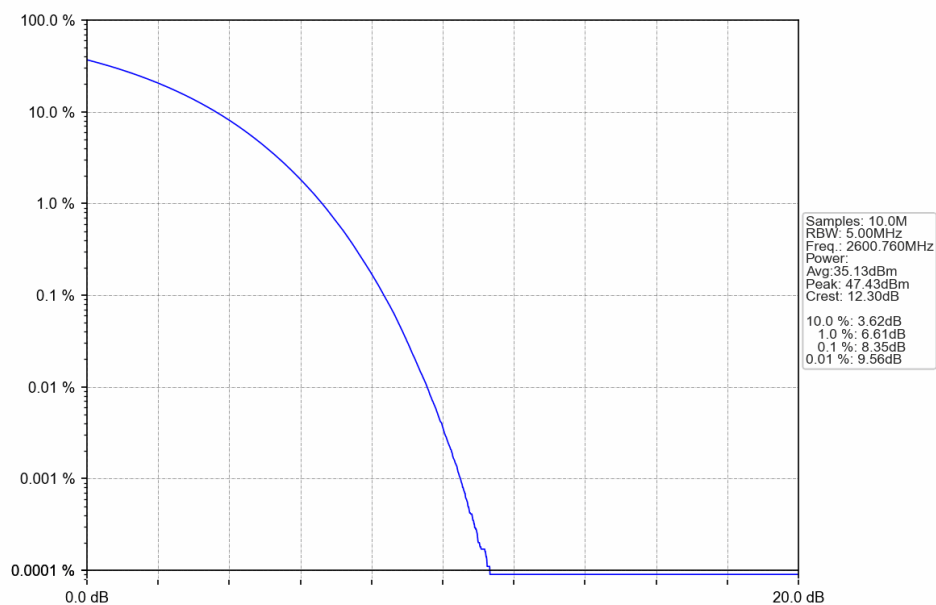
Band41_2600.76MHz_AWGN_SISO_Ant1_NTNV_AGC



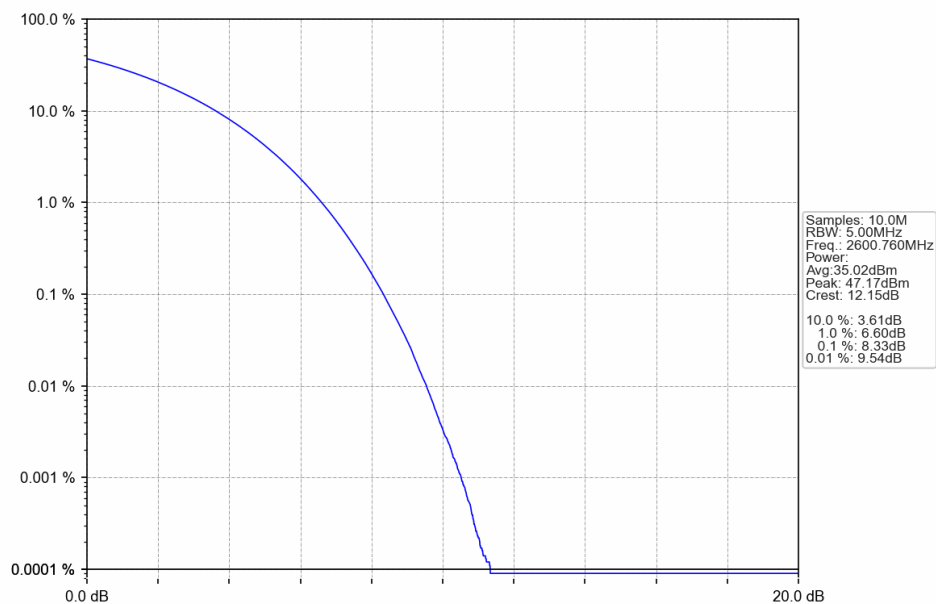
Band41_2600.76MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Band41_ 2600.76MHz_ Broad100MHz_ SISO_ Ant1_ NTNV_ AGC



Band41_ 2600.76MHz_ Broad100MHz_ SISO_ Ant1_ NTNV_ AGC+3



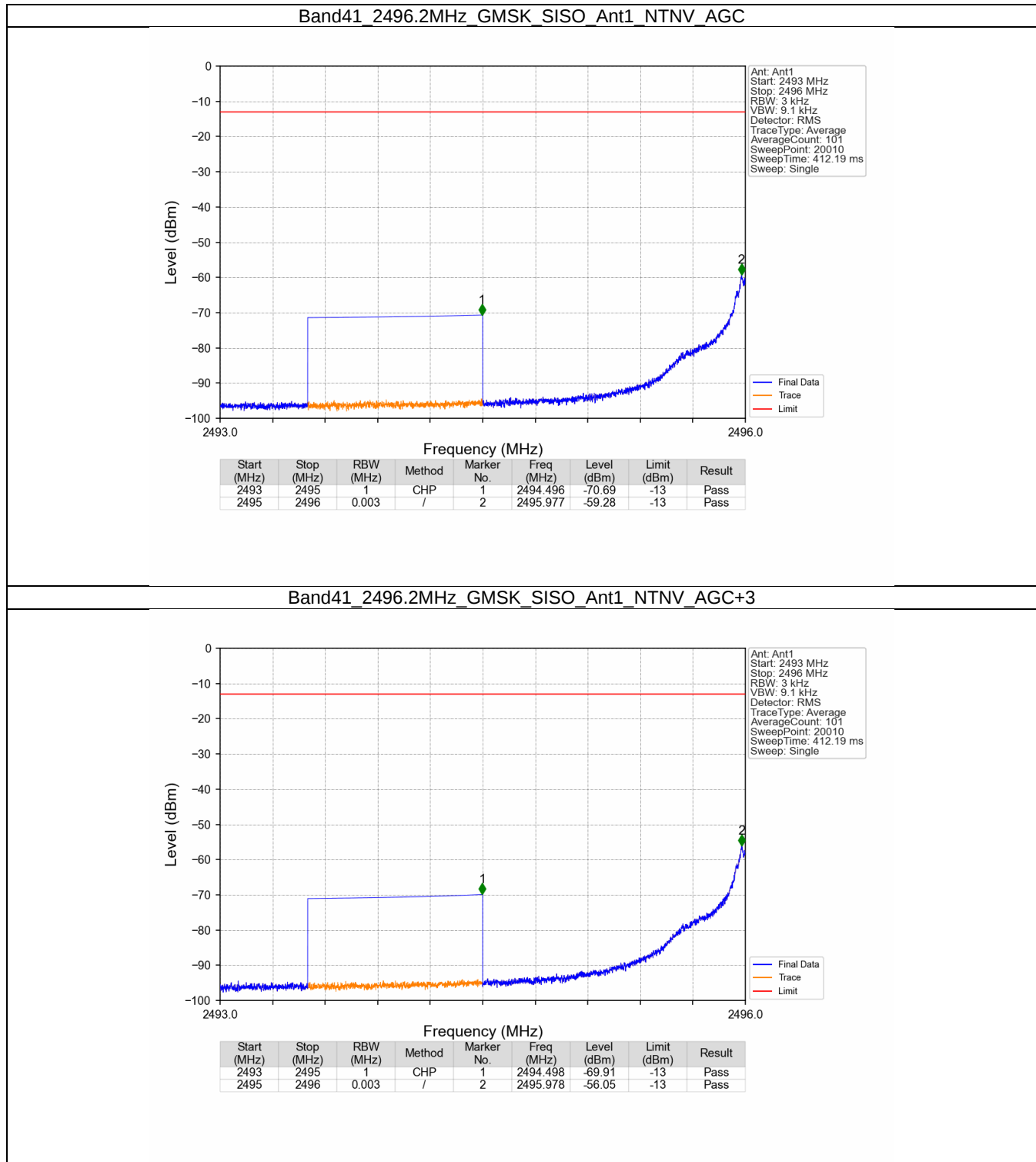
5. Out-of-band/out-of-block (including intermodulation) emissions

5.1 Band41

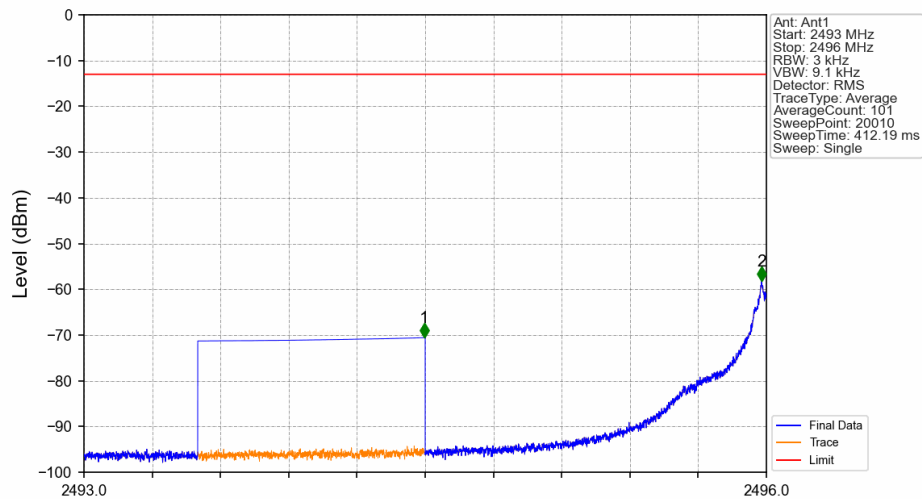
5.1.1 Test Result

Band: 41 / NTNV									
Signal				Channel	TX Type	ANT	OOB (dBm)		Verdict
Input	Type	Level (dBm)	Frequency (MHz)				Result	Limit	
Two	GMSK 0.2MHz	-3.5	2496.2	LCH	SISO	1	-59.28	Refer To Test Graph	Pass
		-0.5	2496.2	LCH	SISO	1	-56.05	Refer To Test Graph	Pass
One	GMSK 0.2MHz	-3.5	2496.2	LCH	SISO	1	-58.22	Refer To Test Graph	Pass
		-0.5	2496.2	LCH	SISO	1	-57.37	Refer To Test Graph	Pass
Two	GMSK 0.2MHz	-3.5	2689.8	HCH	SISO	1	-48.53	Refer To Test Graph	Pass
		-0.5	2689.8	HCH	SISO	1	-48.61	Refer To Test Graph	Pass
One	GMSK 0.2MHz	-3.5	2689.8	HCH	SISO	1	-48.96	Refer To Test Graph	Pass
		-0.5	2689.8	HCH	SISO	1	-49.10	Refer To Test Graph	Pass
Two	AWGN 5MHz	-3.5	2498.5	LCH	SISO	1	-36.44	Refer To Test Graph	Pass
		-0.5	2498.5	LCH	SISO	1	-41.20	Refer To Test Graph	Pass
One	AWGN 5MHz	-3.5	2498.5	LCH	SISO	1	-44.27	Refer To Test Graph	Pass
		-0.5	2498.5	LCH	SISO	1	-45.16	Refer To Test Graph	Pass
Two	AWGN 5MHz	-3.5	2687.5	HCH	SISO	1	-32.73	Refer To Test Graph	Pass
		-0.5	2687.5	HCH	SISO	1	-34.90	Refer To Test Graph	Pass
One	AWGN 5MHz	-3.5	2687.5	HCH	SISO	1	-36.01	Refer To Test Graph	Pass
		-0.5	2687.5	HCH	SISO	1	-34.83	Refer To Test Graph	Pass
Two	AWGN 100MHz	-3.5	2496.8	LCH	SISO	1	-23.52	Refer To Test Graph	Pass
		-0.5	2496.8	LCH	SISO	1	-23.24	Refer To Test Graph	Pass
One	AWGN 100MHz	-3.5	2496.8	LCH	SISO	1	-23.41	Refer To Test Graph	Pass
		-0.5	2496.8	LCH	SISO	1	-23.49	Refer To Test Graph	Pass
Two	AWGN 100MHz	-3.5	2689.2	HCH	SISO	1	-15.85	Refer To Test Graph	Pass
		-0.5	2689.2	HCH	SISO	1	-15.94	Refer To Test Graph	Pass
One	AWGN 100MHz	-3.5	2689.2	HCH	SISO	1	-15.88	Refer To Test Graph	Pass
		-0.5	2689.2	HCH	SISO	1	-15.88	Refer To Test Graph	Pass

5.1.2 Test Graph

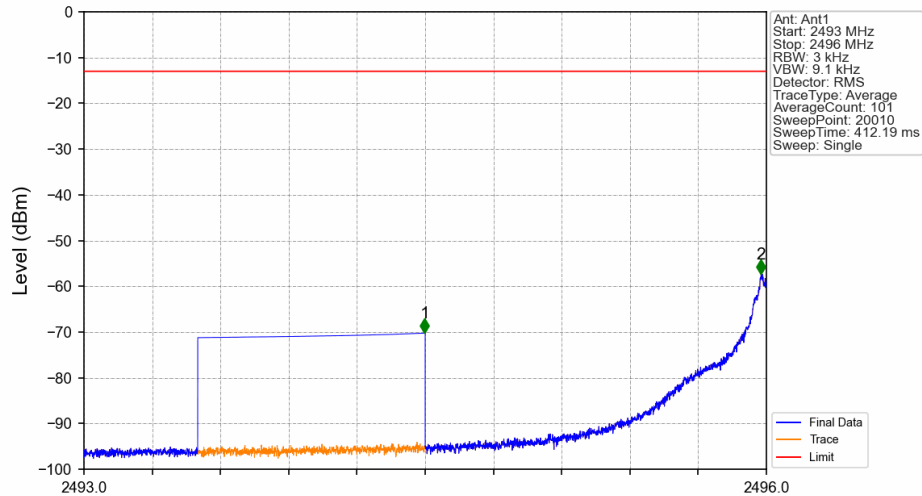


Band41_2496.2MHz_GMSK_SISO_Ant1_NTNV_AGC



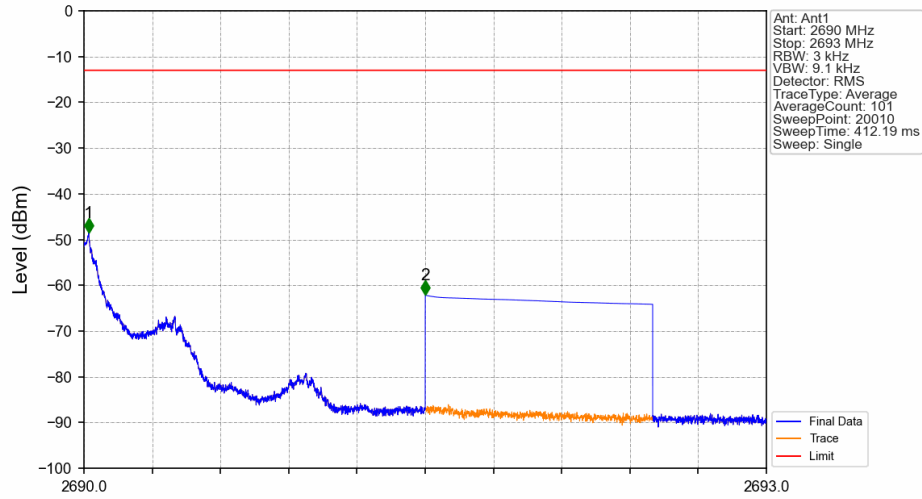
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	CHP	1	2494.496	-70.58	-13	Pass
2495	2496	0.003	/	2	2495.978	-58.22	-13	Pass

Band41_2496.2MHz_GMSK_SISO_Ant1_NTNV_AGC+3



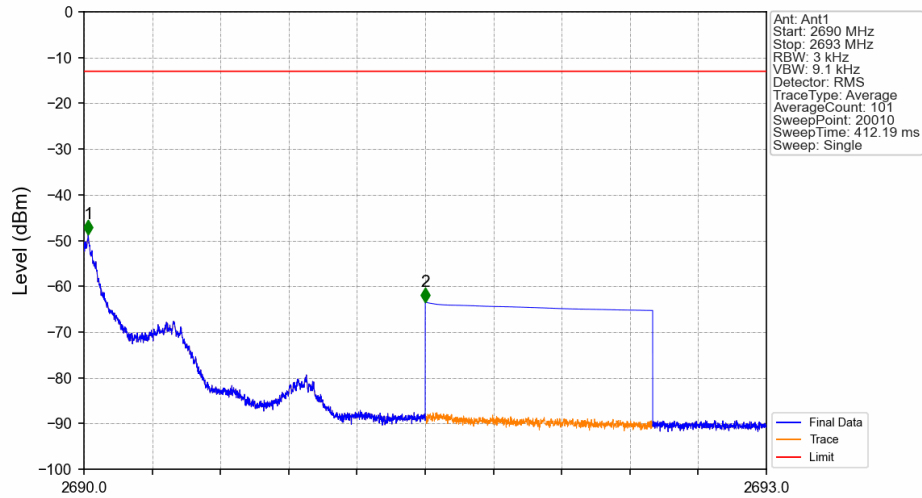
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	CHP	1	2494.498	-70.25	-13	Pass
2495	2496	0.003	/	2	2495.977	-57.37	-13	Pass

Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV_AGC



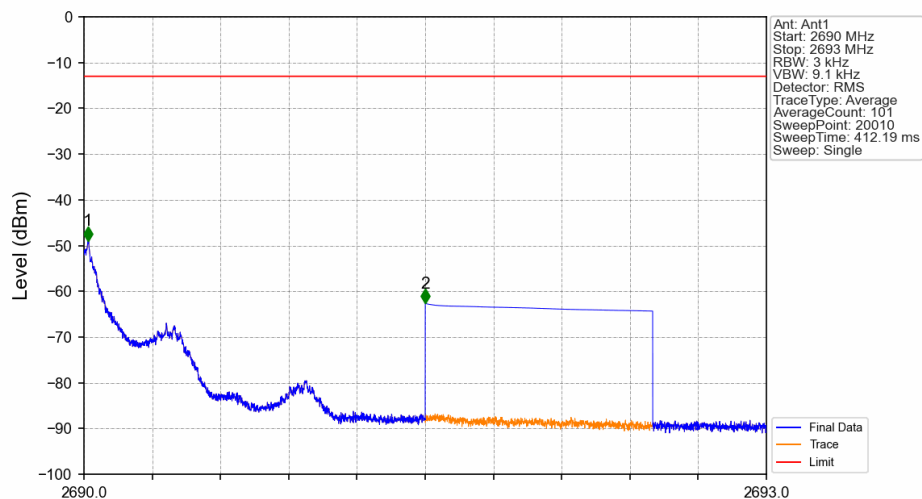
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	0.003	/	1	2690.020	-48.53	-13	Pass
2691	2693	1	CHP	2	2691.500	-62.14	-13	Pass

Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV_AGC+3



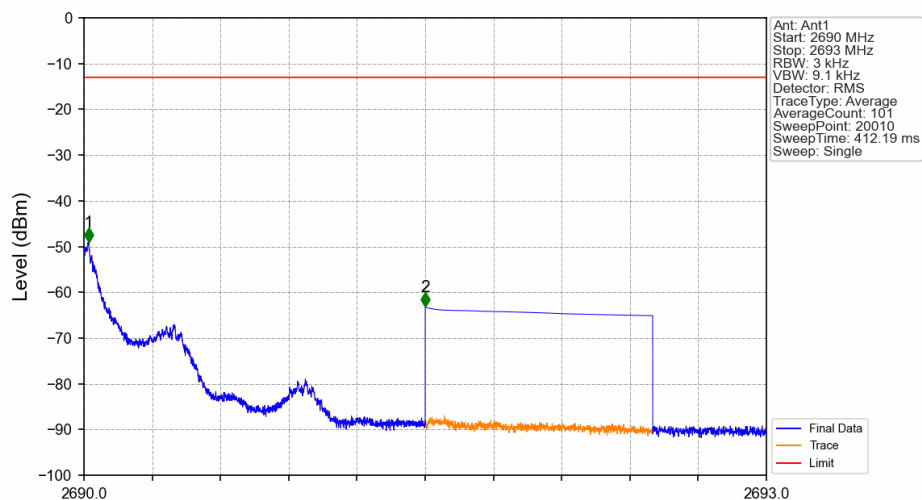
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	0.003	/	1	2690.018	-48.61	-13	Pass
2691	2693	1	CHP	2	2691.500	-63.42	-13	Pass

Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV_AGC



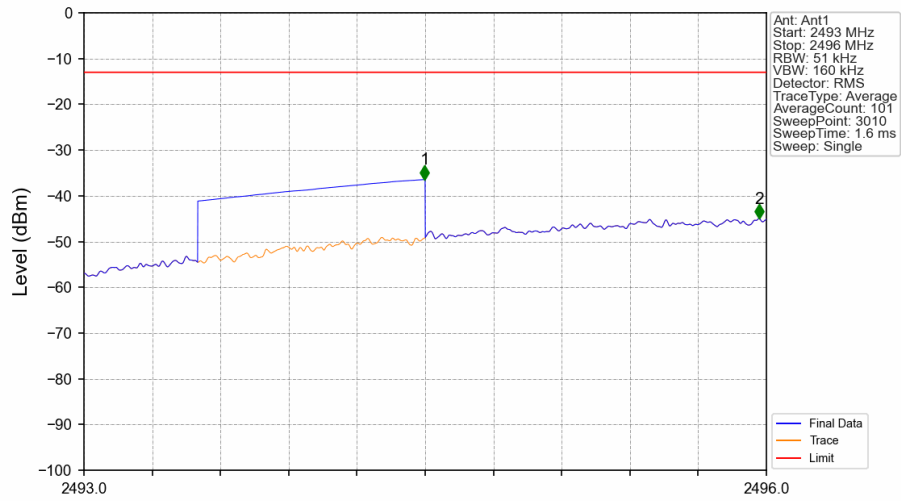
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	0.003	/	1	2690.018	-48.96	-13	Pass
2691	2693	1	CHP	2	2691.500	-62.65	-13	Pass

Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV_AGC+3



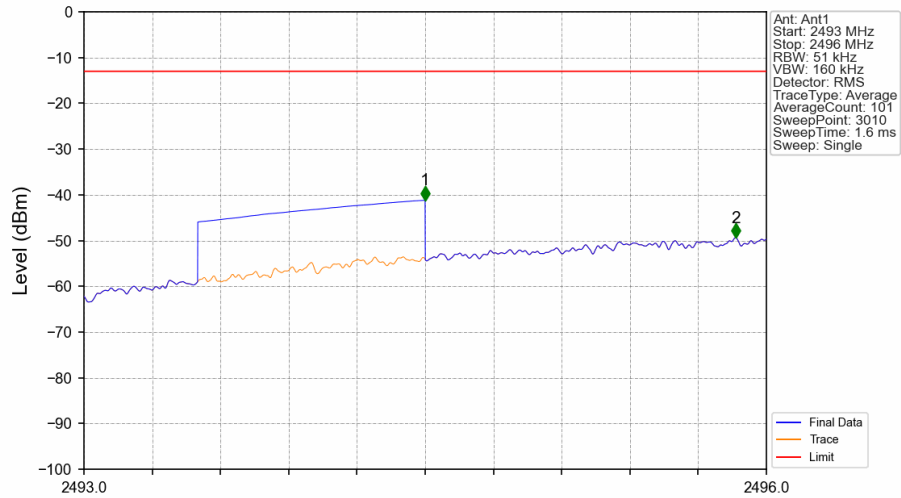
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	0.003	/	1	2690.020	-49.10	-13	Pass
2691	2693	1	CHP	2	2691.500	-63.22	-13	Pass

Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV_AGC



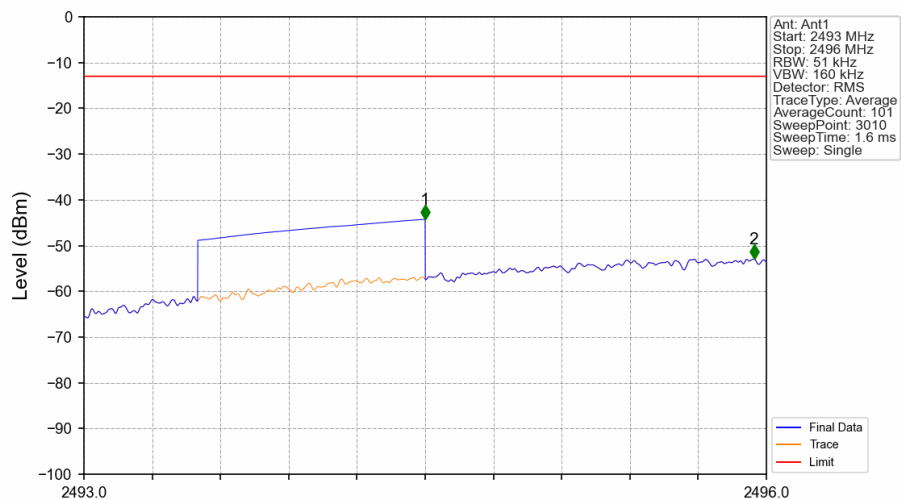
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	CHP	1	2494.498	-36.44	-13	Pass
2495	2496	0.051	/	2	2495.967	-44.99	-13	Pass

Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	CHP	1	2494.499	-41.20	-13	Pass
2495	2496	0.051	/	2	2495.864	-49.35	-13	Pass

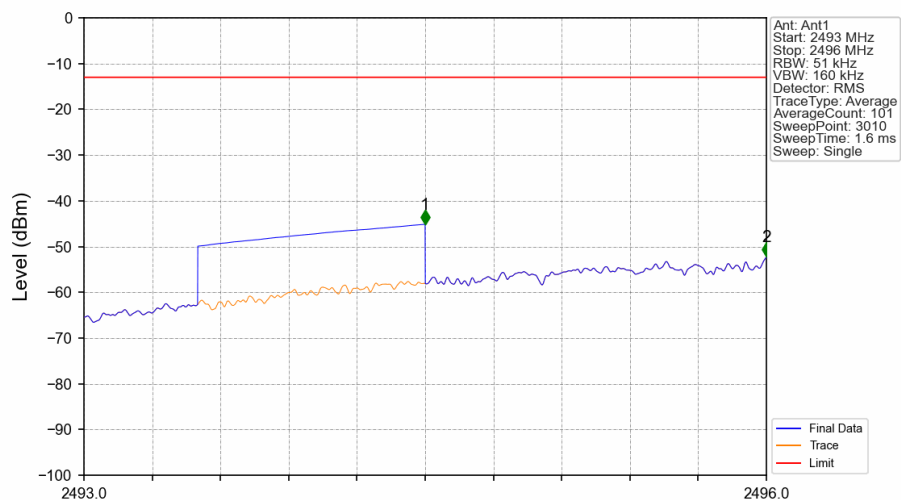
Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV_AGC



Frequency (MHz)

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	CHP	1	2494.500	-44.27	-13	Pass
2495	2496	0.051	/	2	2495.945	-52.97	-13	Pass

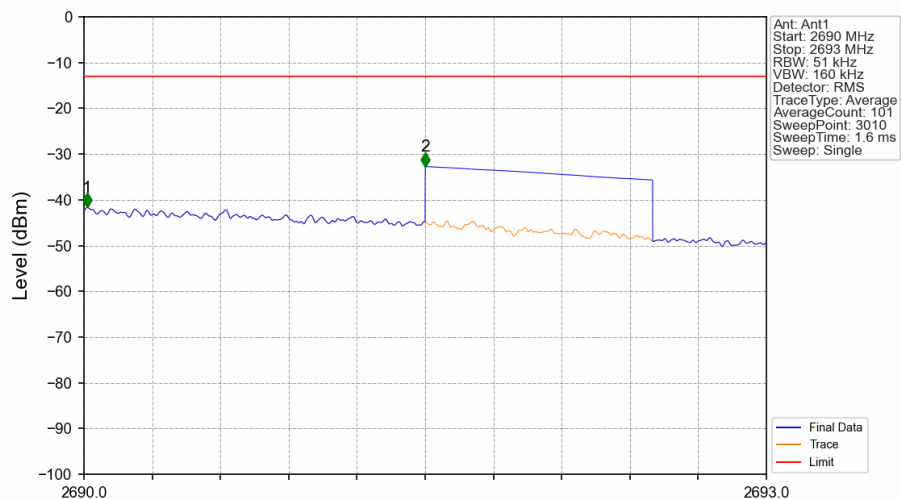
Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



Frequency (MHz)

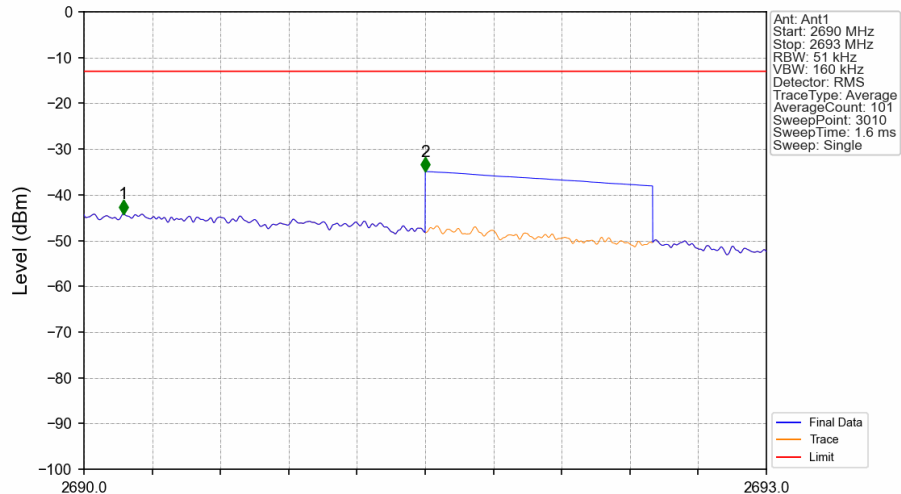
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	CHP	1	2494.499	-45.16	-13	Pass
2495	2496	0.051	/	2	2496.000	-52.27	-13	Pass

Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV_AGC



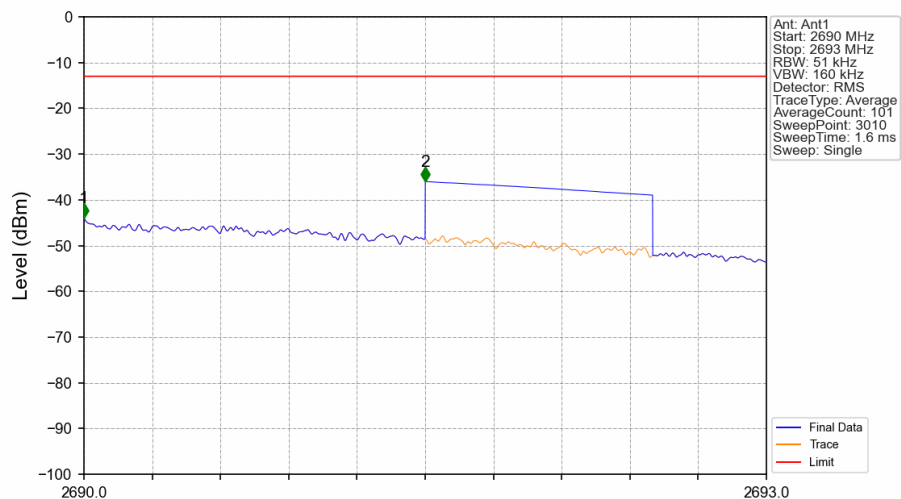
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	0.051	/	1	2690.014	-41.62	-13	Pass
2691	2693	1	CHP	2	2691.500	-32.73	-13	Pass

Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



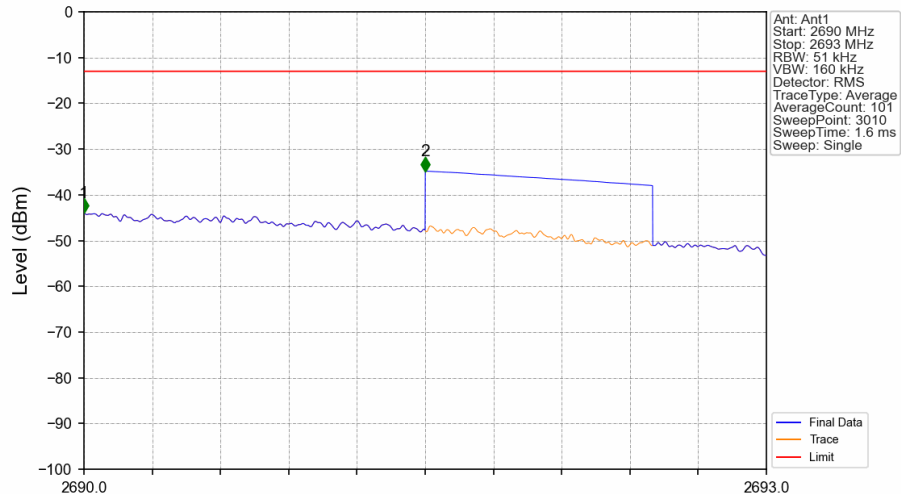
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	0.051	/	1	2690.173	-44.17	-13	Pass
2691	2693	1	CHP	2	2691.500	-34.90	-13	Pass

Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV_AGC



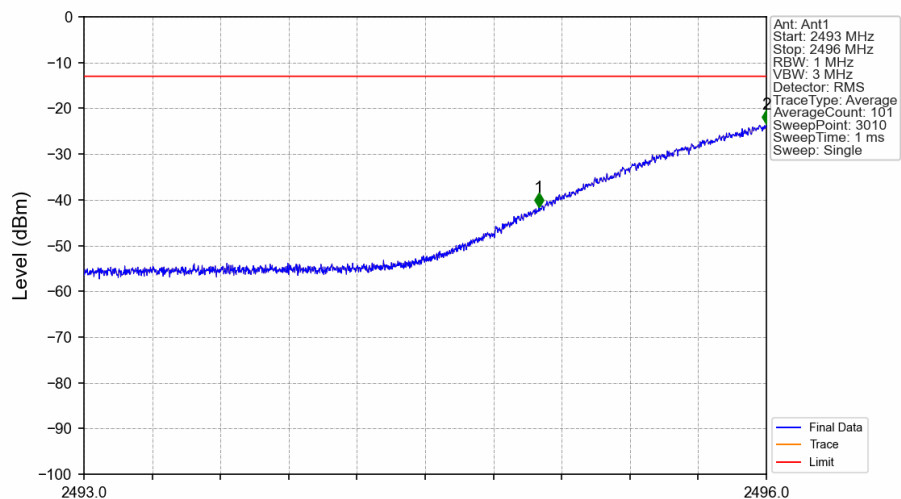
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	0.051	/	1	2690.000	-43.98	-13	Pass
2691	2693	1	CHP	2	2691.500	-36.01	-13	Pass

Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV_AGC+3



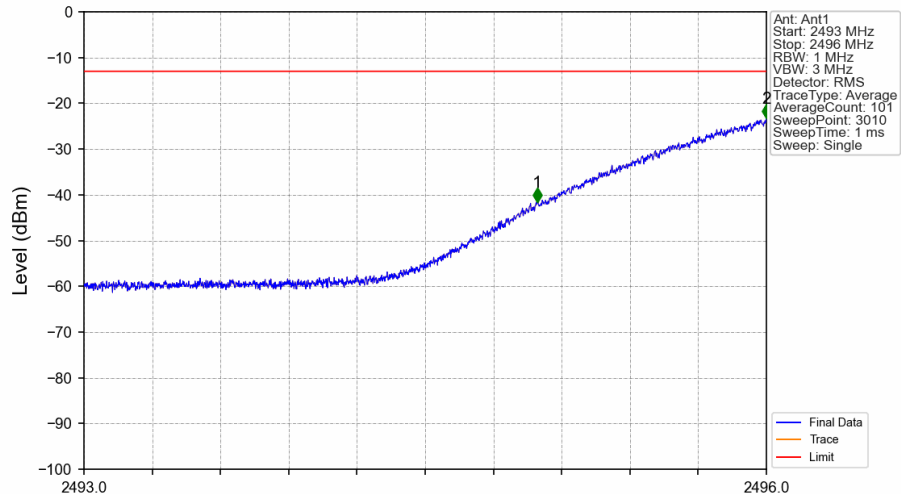
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	0.051	/	1	2690.000	-43.93	-13	Pass
2691	2693	1	CHP	2	2691.500	-34.83	-13	Pass

Band41_2496.8MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



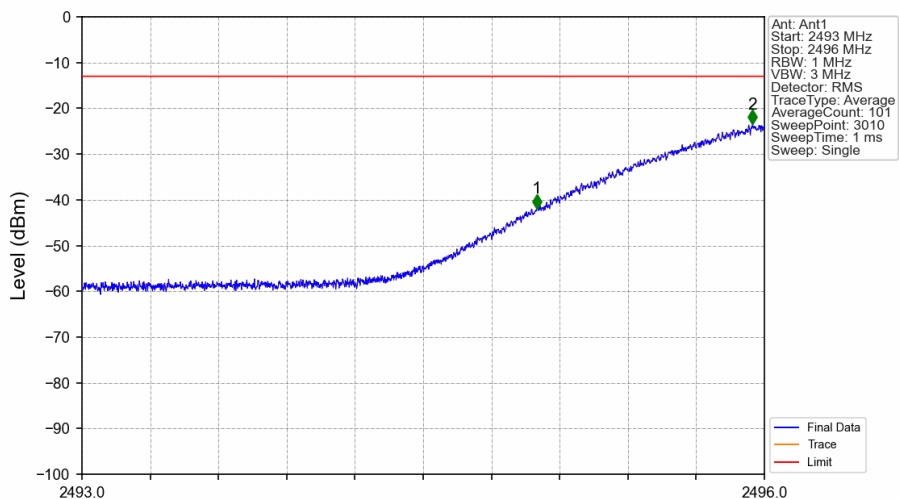
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	/	1	2495.000	-41.65	-13	Pass
2495	2496	1.058	/	2	2496.000	-23.52	-13	Pass

Band41_2496.8MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



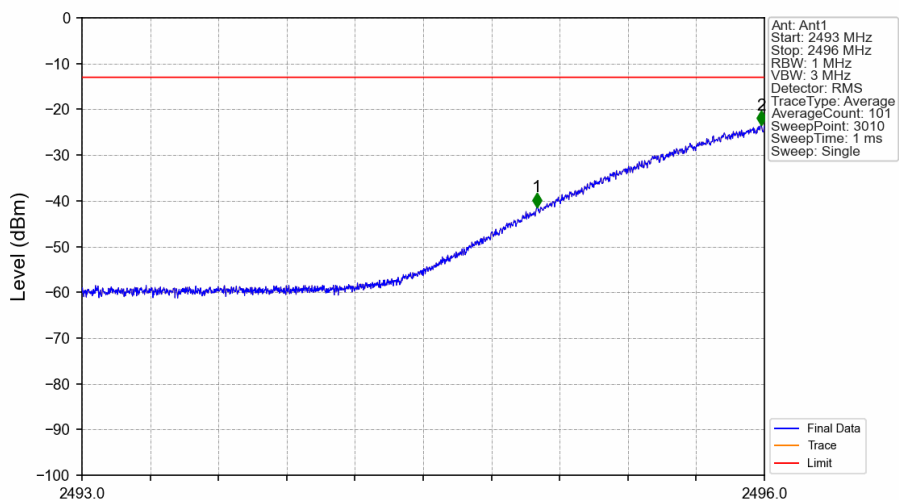
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	/	1	2494.992	-41.60	-13	Pass
2495	2496	1.058	/	2	2495.999	-23.24	-13	Pass

Band41_2496.8MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



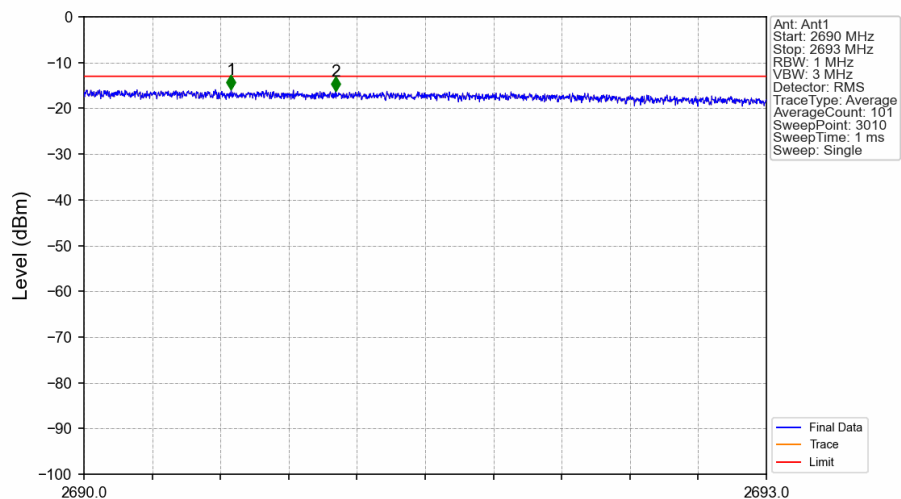
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	/	1	2494.999	-41.88	-13	Pass
2495	2496	1.058	/	2	2495.948	-23.41	-13	Pass

Band41_2496.8MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



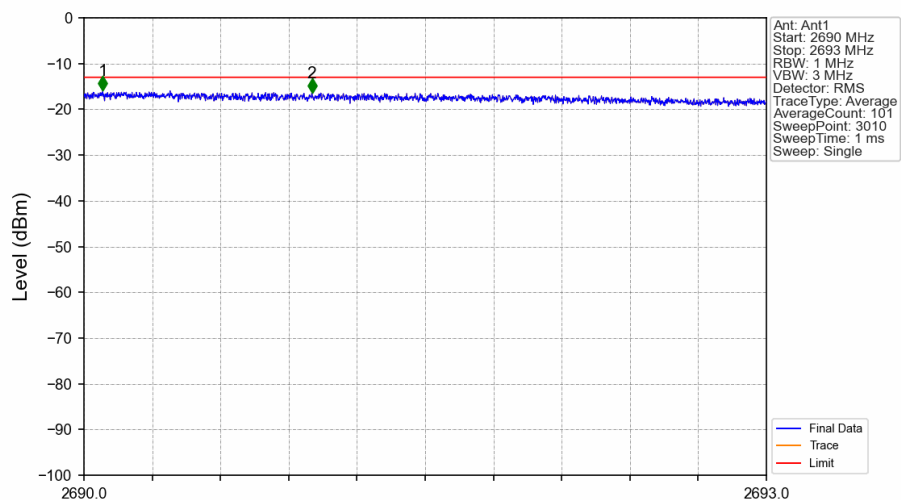
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2493	2495	1	/	1	2494.999	-41.35	-13	Pass
2495	2496	1.058	/	2	2495.986	-23.49	-13	Pass

Band41_2689.2MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



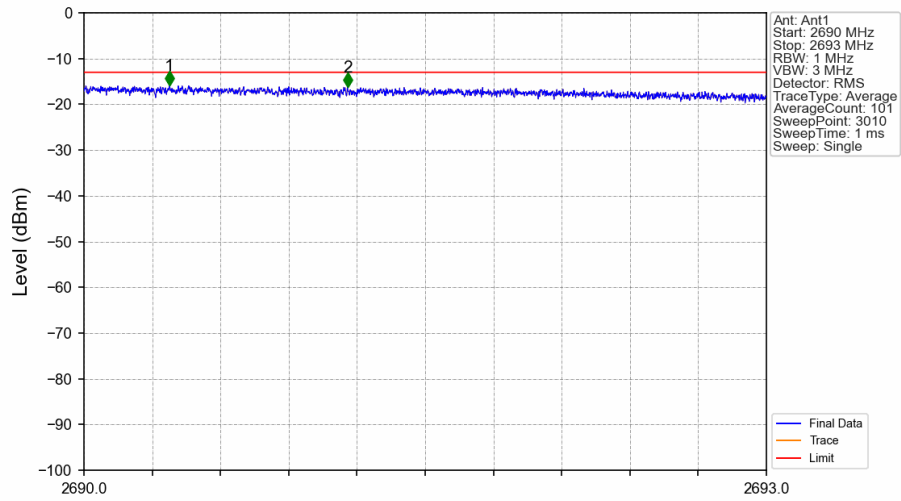
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	1.058	/	1	2690.647	-15.84	-13	Pass
2691	2693	1	/	2	2691.106	-16.26	-13	Pass

Band41_2689.2MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3

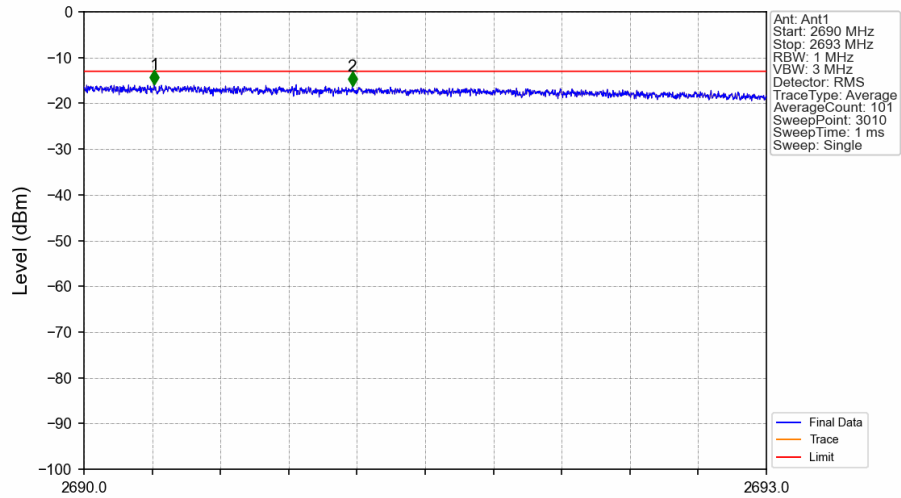


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2690	2691	1.058	/	1	2690.083	-15.94	-13	Pass
2691	2693	1	/	2	2691.002	-16.36	-13	Pass

Band41_2689.2MHz_Broad100MHz_SISO_Ant1_NTNV_AGC



Band41_2689.2MHz_Broad100MHz_SISO_Ant1_NTNV_AGC+3



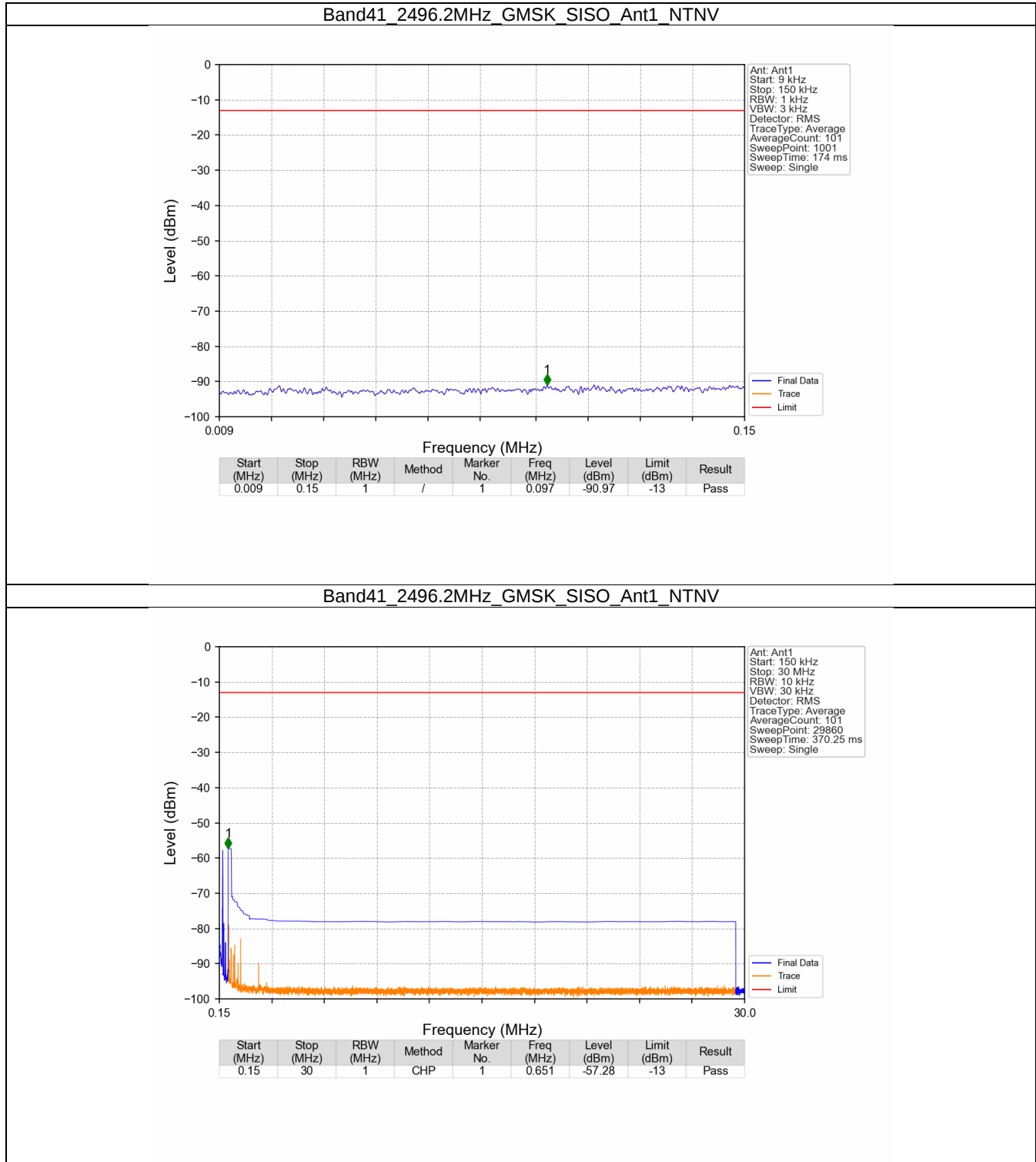
6. Spurious emissions

6.1 Band41

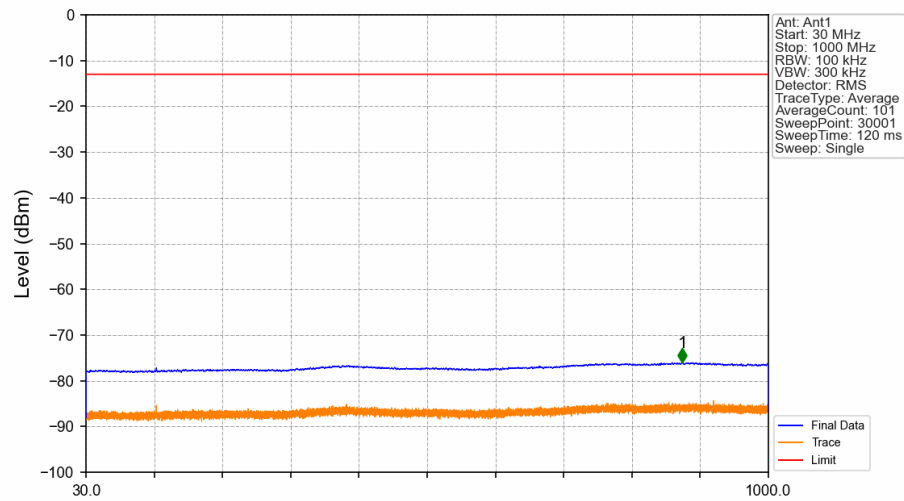
6.1.1 Test Result

Band: 41 / NTNV								
Signal			Channel	TX Type	ANT	SE (dBm)		Verdict
Type	Level (dBm)	Frequency (MHz)				Result	Limit	
GMSK 0.2MHz	-3.5	2496.2	LCH	SISO	1	Refer To Test Graph		Pass
		2593	MCH	SISO	1	Refer To Test Graph		Pass
		2689.8	HCH	SISO	1	Refer To Test Graph		Pass
AWGN 5MHz	-3.5	2498.5	LCH	SISO	1	Refer To Test Graph		Pass
		2593	MCH	SISO	1	Refer To Test Graph		Pass
		2687.5	HCH	SISO	1	Refer To Test Graph		Pass
AWGN 100MHz	-3.5	2496.8	LCH	SISO	1	Refer To Test Graph		Pass
		2593	MCH	SISO	1	Refer To Test Graph		Pass
		2689.2	HCH	SISO	1	Refer To Test Graph		Pass

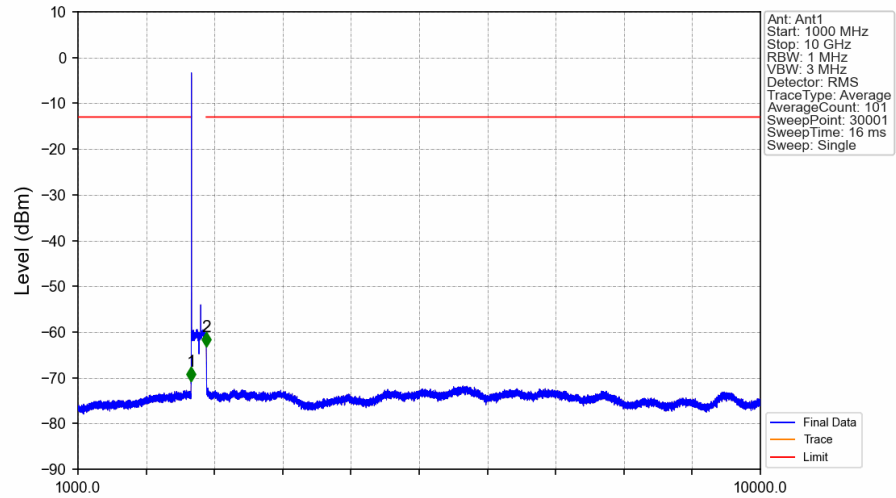
6.1.2 Test Graph



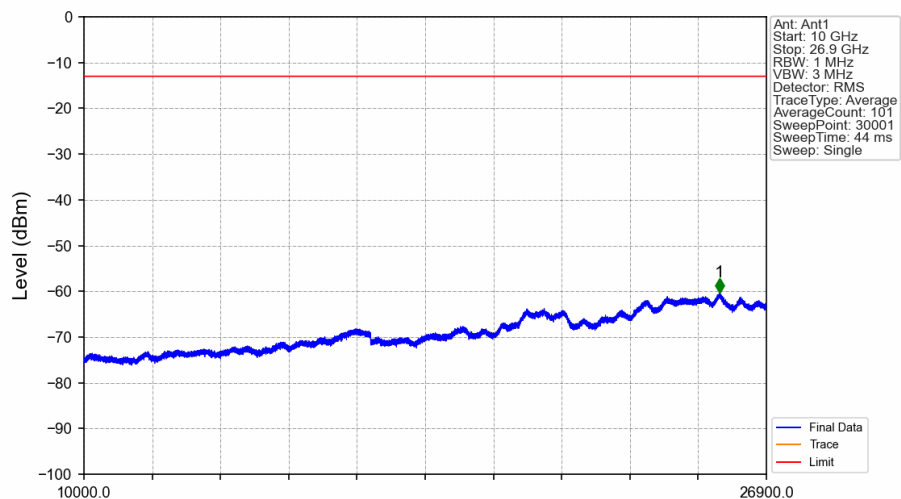
Band41_2496.2MHz_GMSK_SISO_Ant1_NTNV



Band41_2496.2MHz_GMSK_SISO_Ant1_NTNV

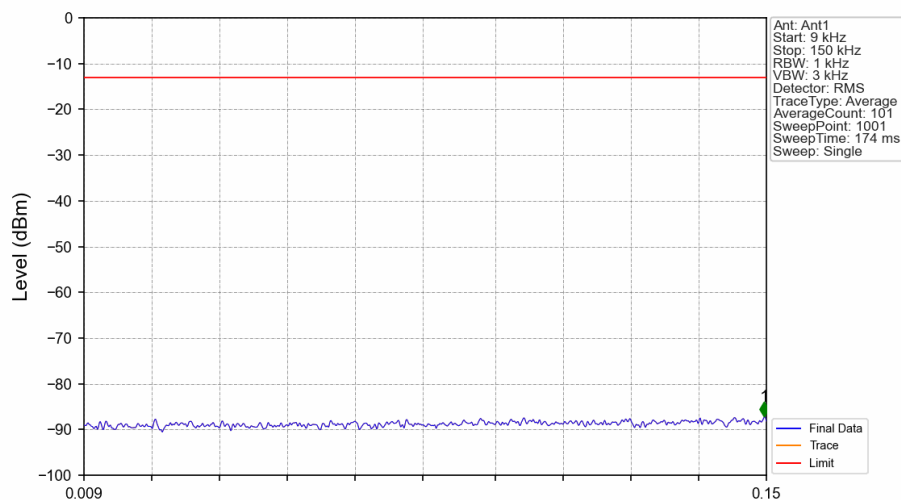


Band41_2496.2MHz_GMSK_SISO_Ant1_NTNV



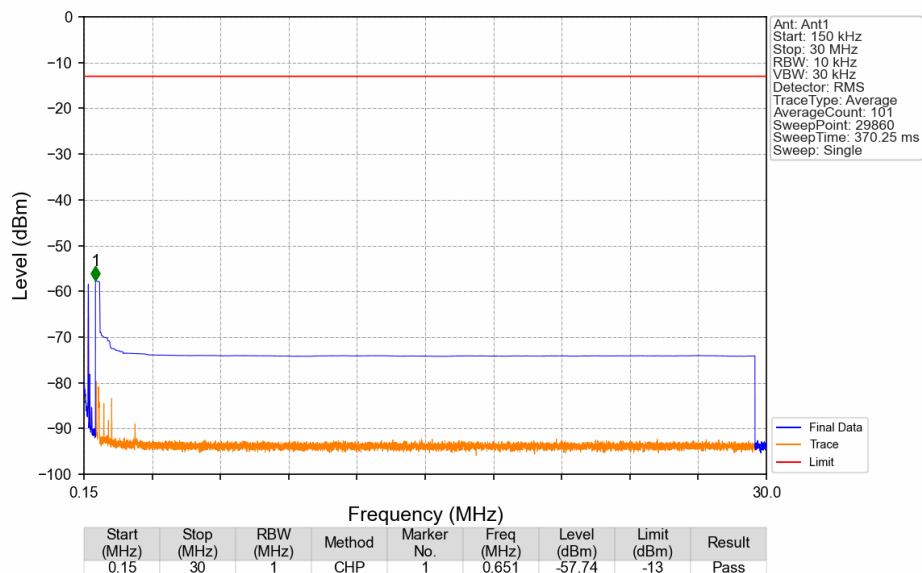
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	25740.097	-60.23	-13	Pass

Band41_2593MHz_GMSK_SISO_Ant1_NTNV

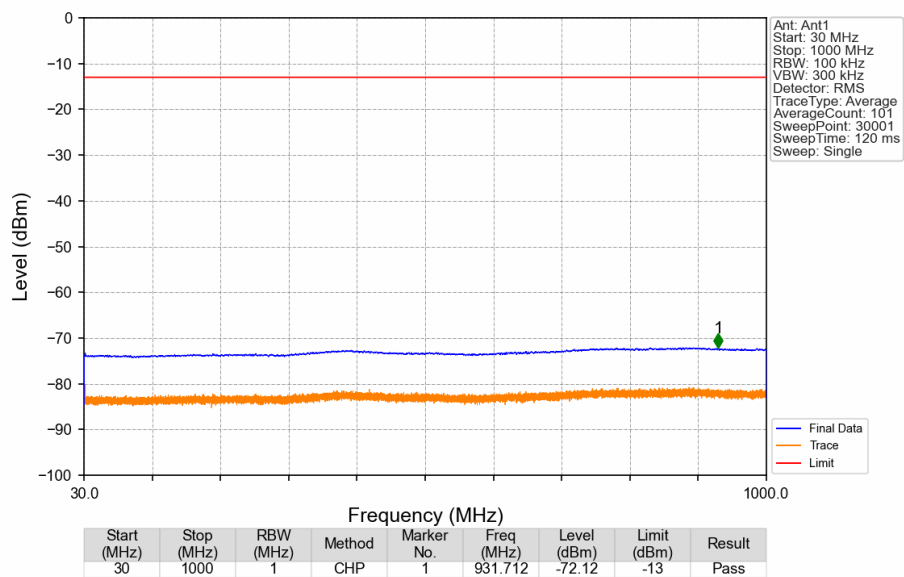


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	1	/	1	0.150	-87.19	-13	Pass

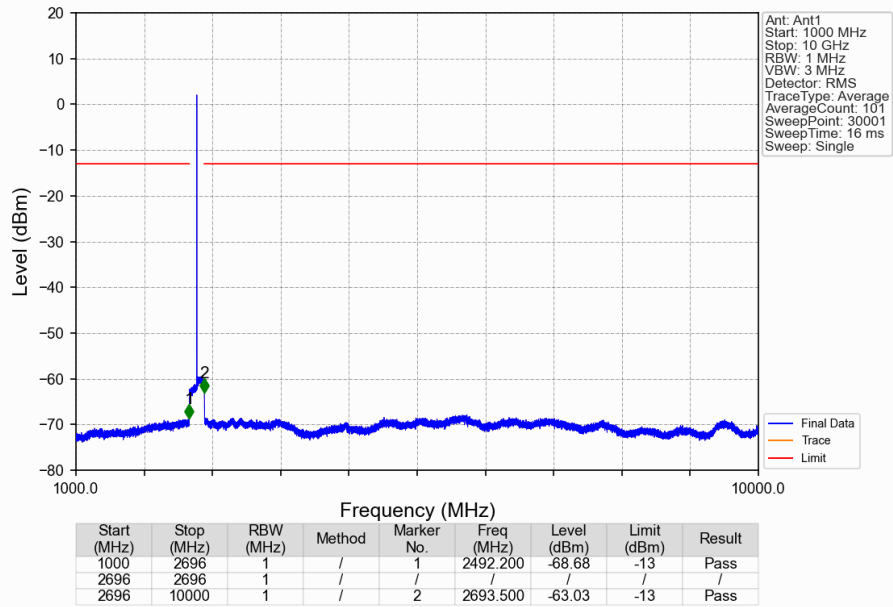
Band41_2593MHz_GMSK_SISO_Ant1_NTNV



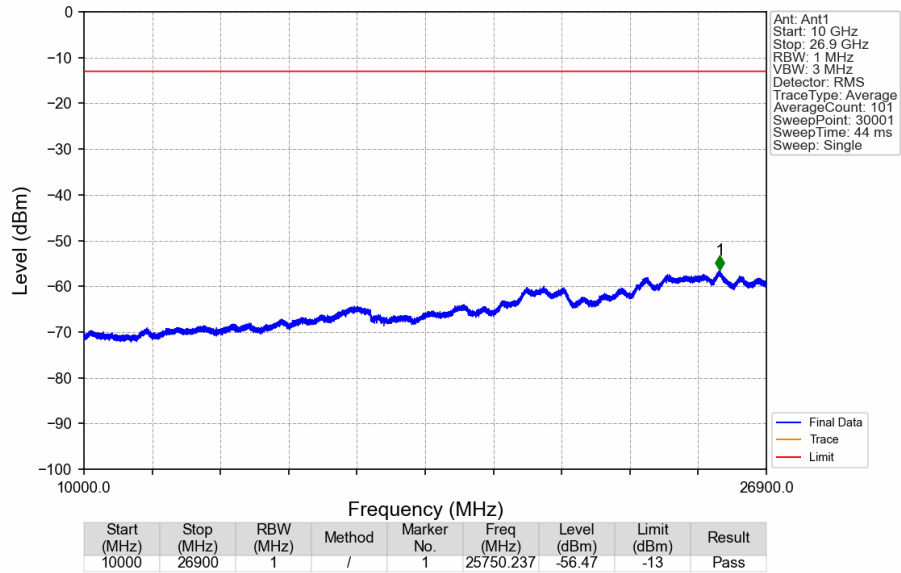
Band41_2593MHz_GMSK_SISO_Ant1_NTNV



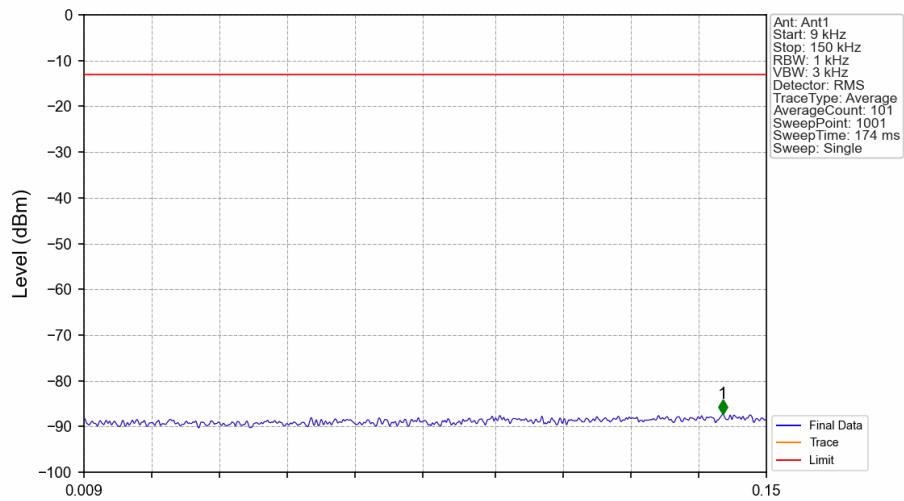
Band41_2593MHz_GMSK_SISO_Ant1_NTNV



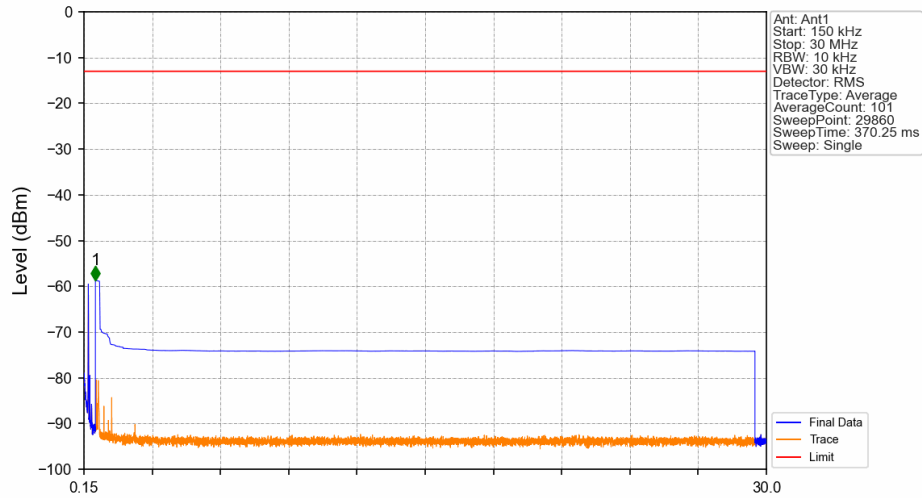
Band41_2593MHz_GMSK_SISO_Ant1_NTNV



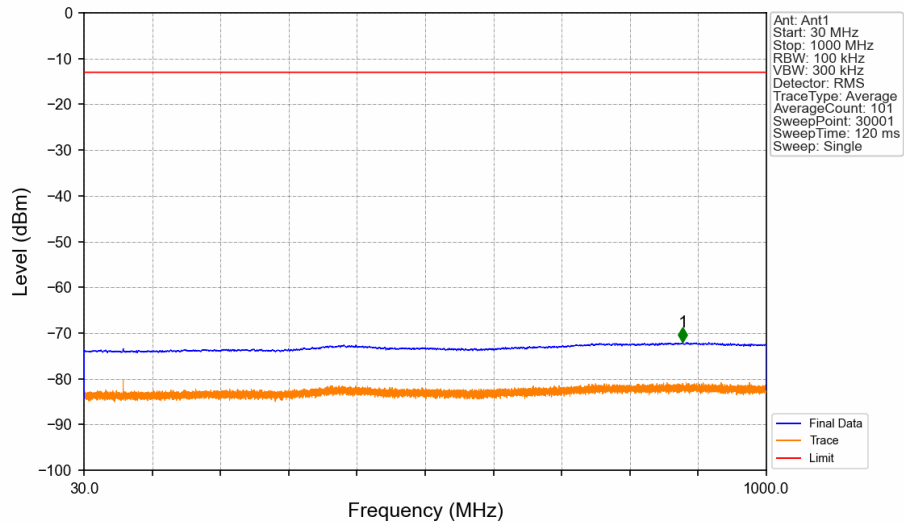
Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV



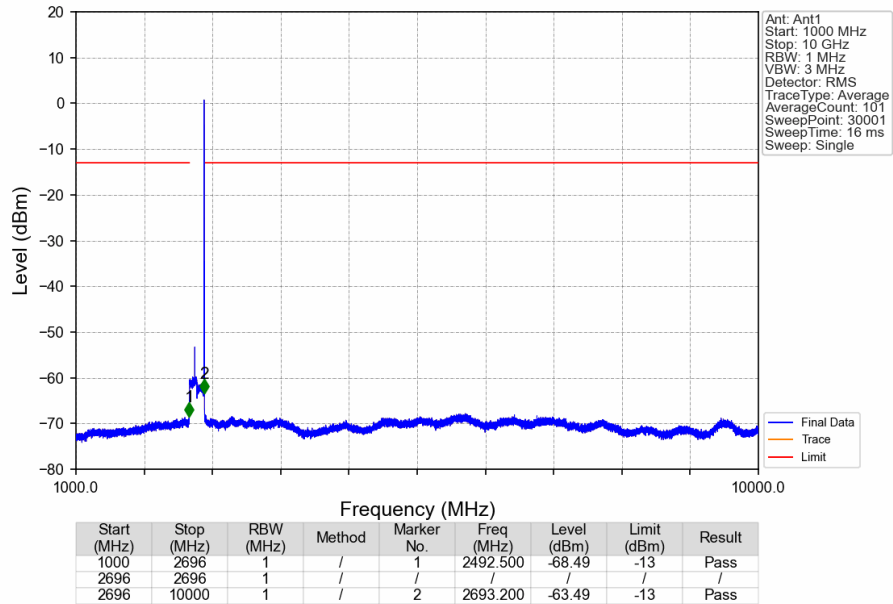
Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV



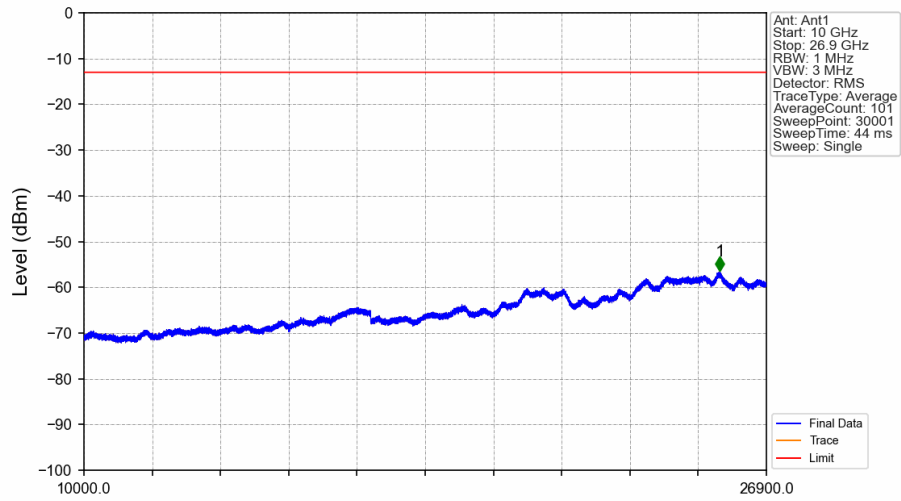
Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV



Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV

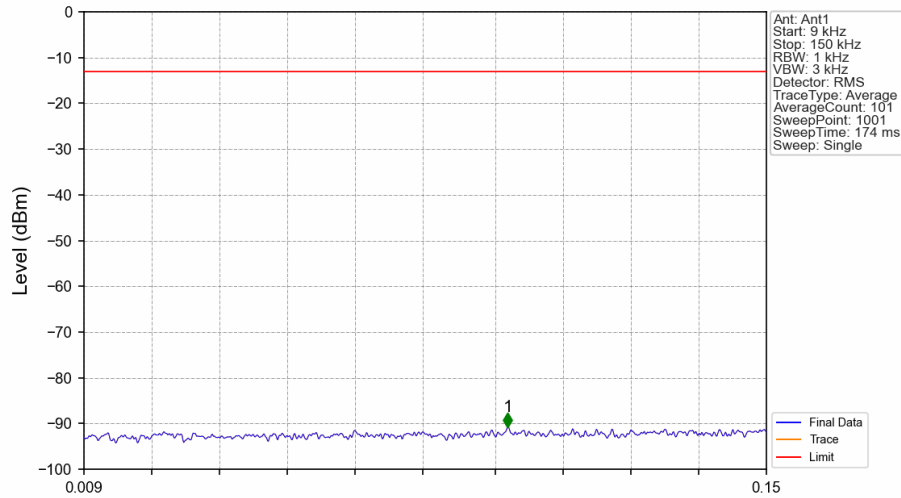


Band41_2689.8MHz_GMSK_SISO_Ant1_NTNV



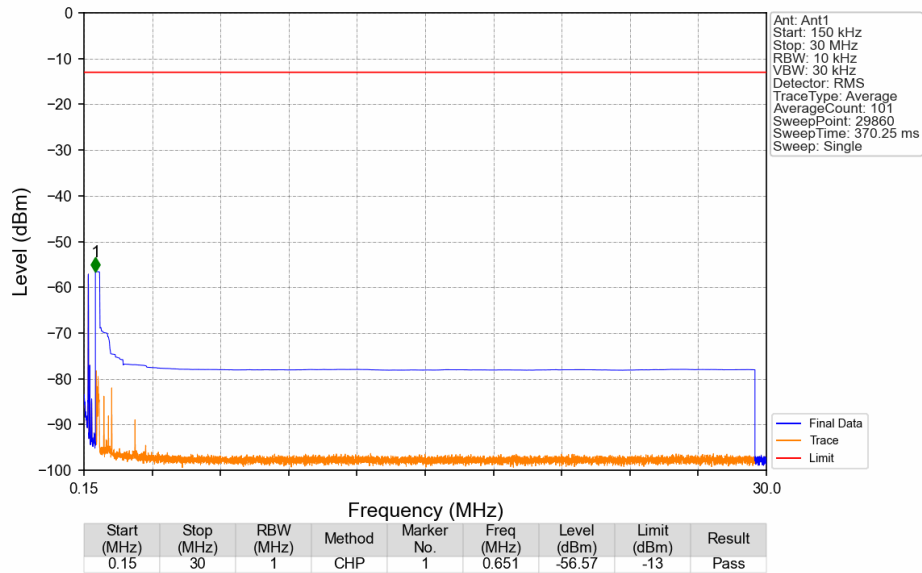
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	25746.857	-56.50	-13	Pass

Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV

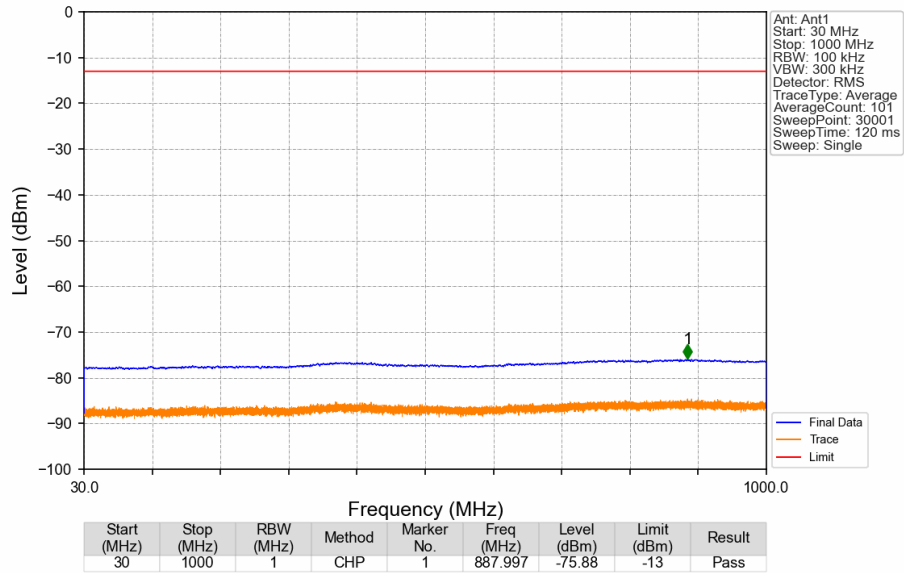


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	1	/	1	0.097	-90.75	-13	Pass

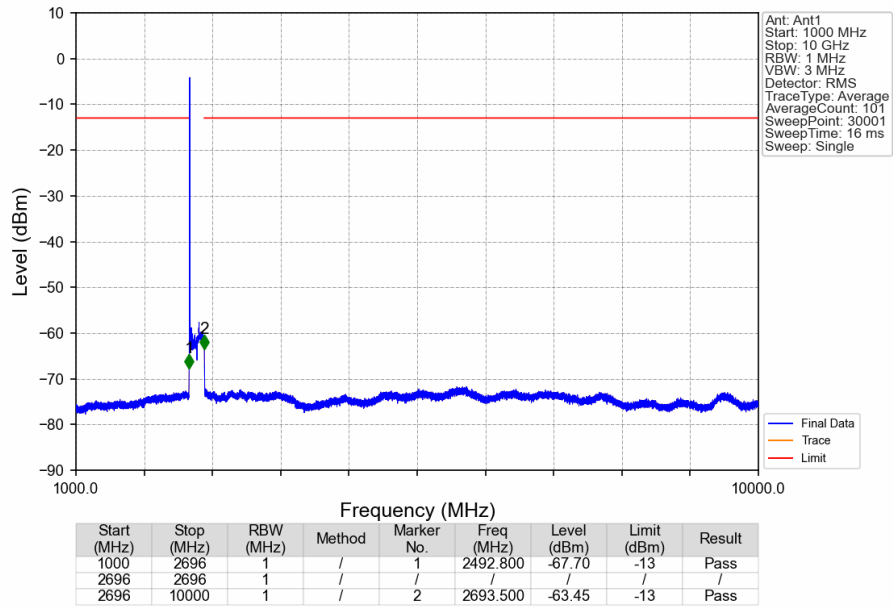
Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV



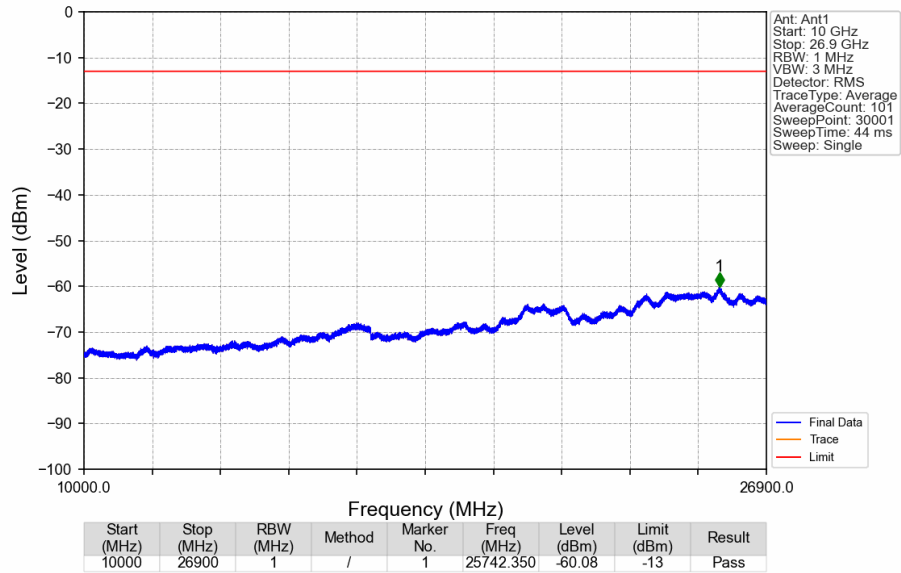
Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV



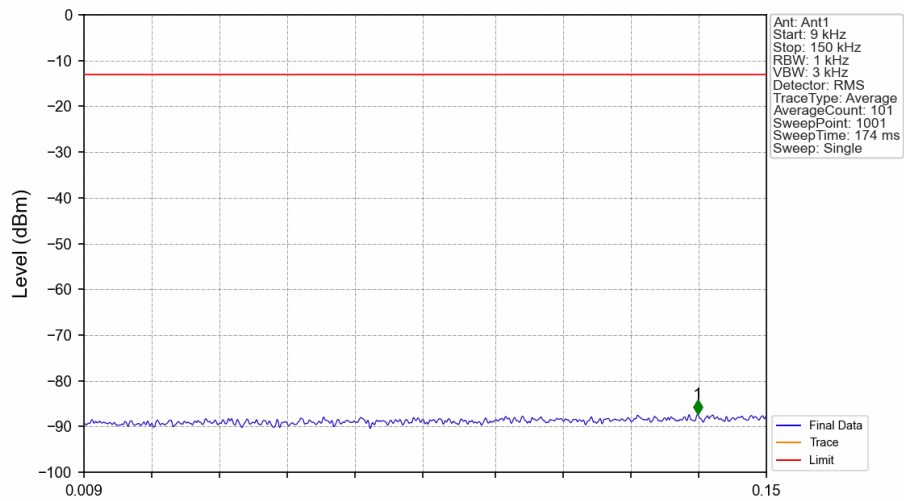
Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV



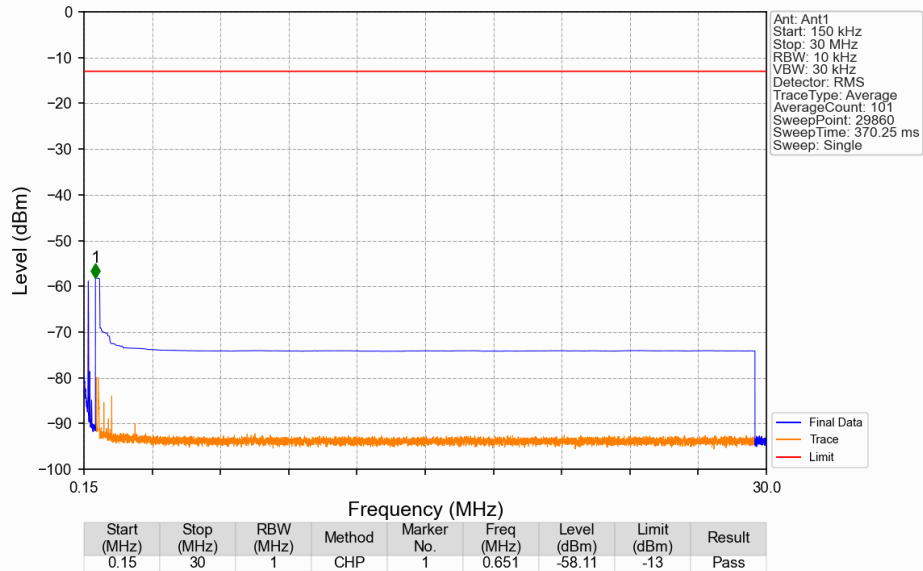
Band41_2498.5MHz_AWGN_SISO_Ant1_NTNV



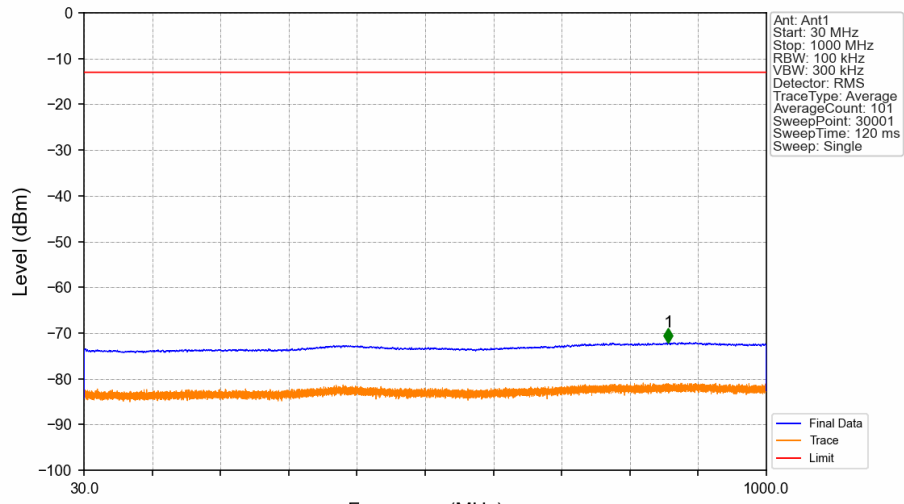
Band41_2593MHz_AWGN_SISO_Ant1_NTNV



Band41_2593MHz_AWGN_SISO_Ant1_NTNV

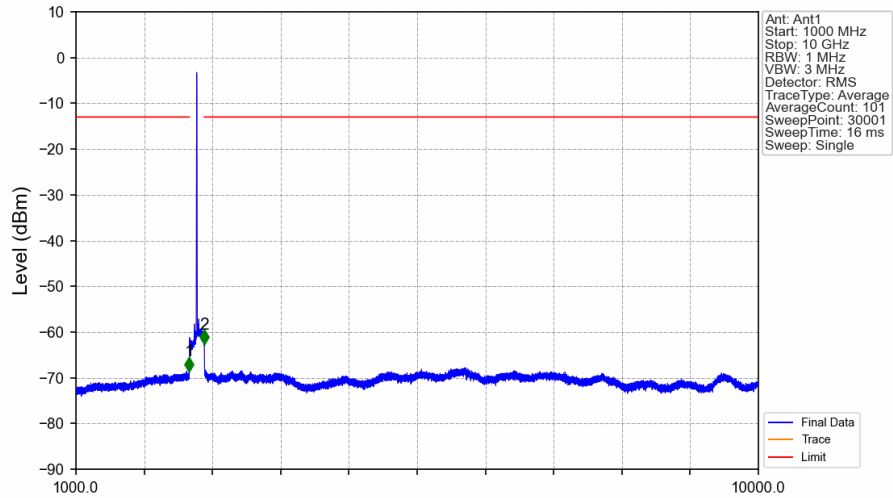


Band41_2593MHz_AWGN_SISO_Ant1_NTNV



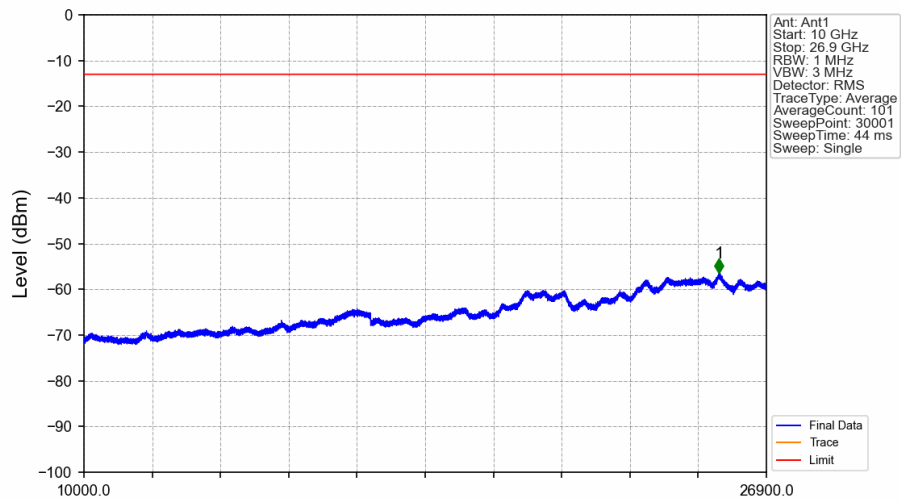
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	860.514	-72.04	-13	Pass

Band41_2593MHz_AWGN_SISO_Ant1_NTNV



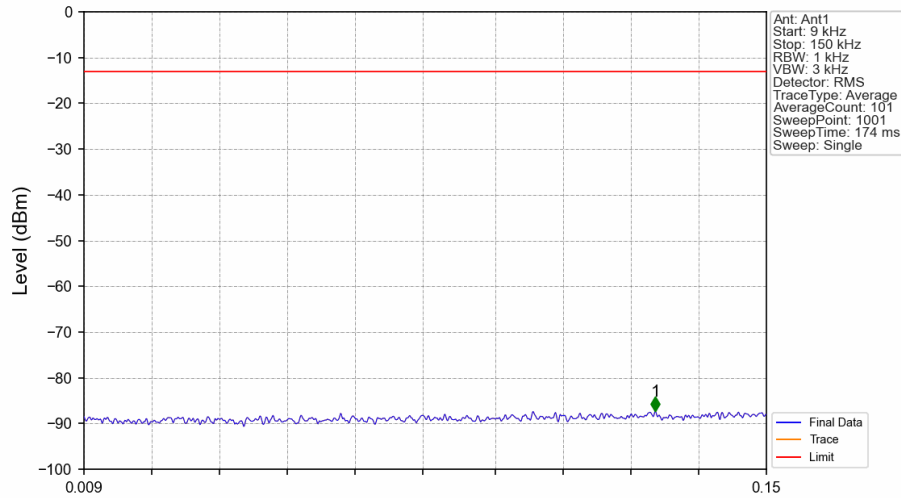
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2696	1	/	1	2491.900	-68.58	-13	Pass
2696	2696	1	/	/	/	/	/	/
2696	10000	1	/	2	2693.200	-62.68	-13	Pass

Band41_2593MHz_AWGN_SISO_Ant1_NTNV



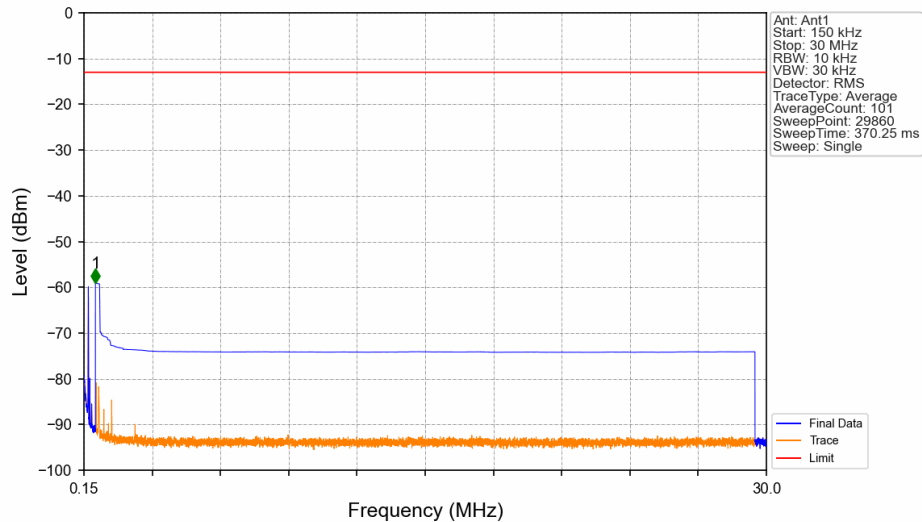
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	25726.577	-56.47	-13	Pass

Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV

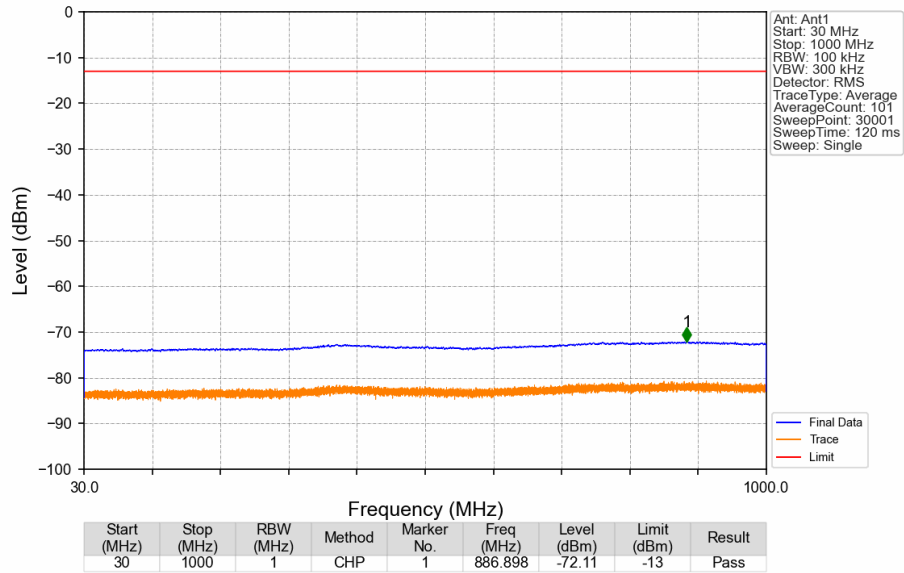


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	0.15	1	/	1	0.127	-87.34	-13	Pass

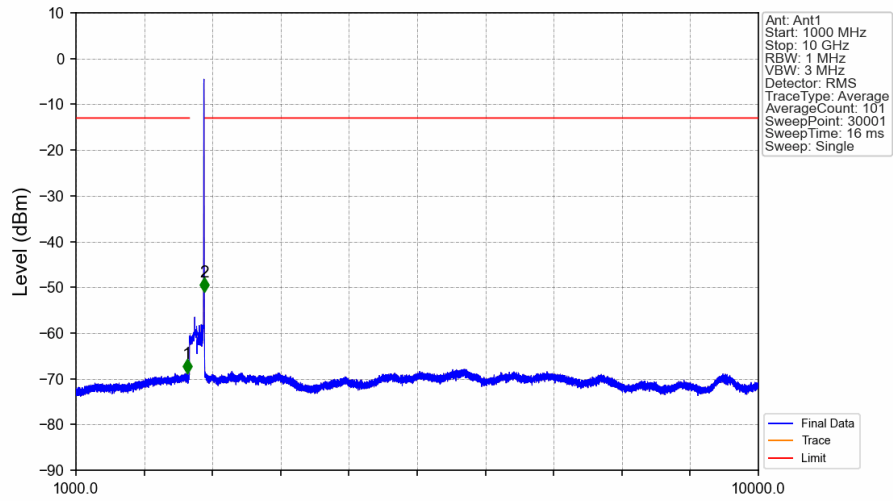
Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV



Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV

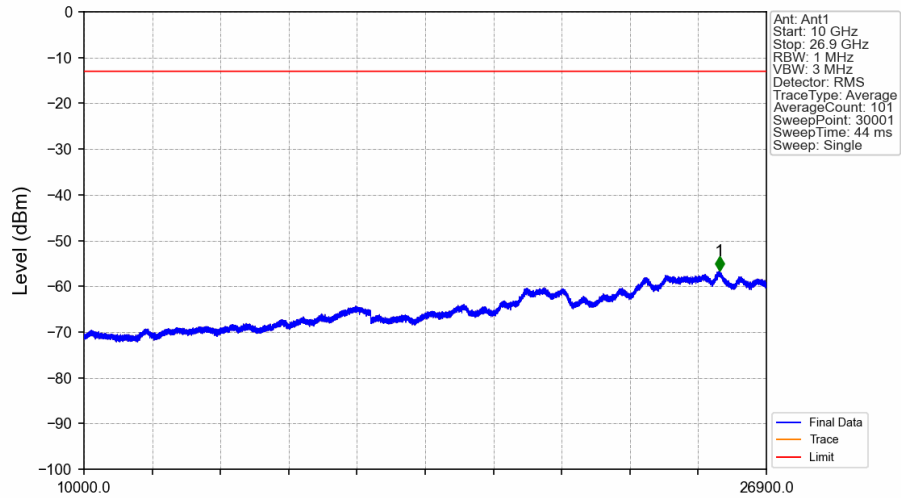


Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV



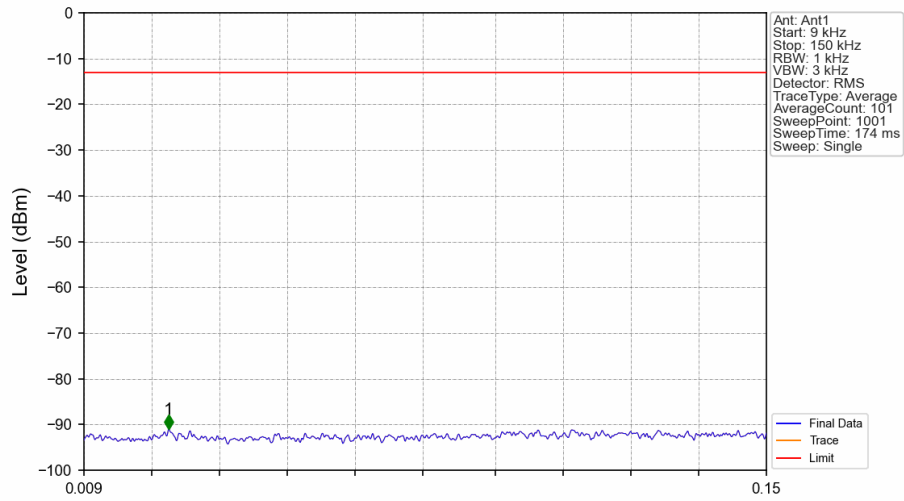
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2696	1	/	1	2467.300	-68.80	-13	Pass
2696	2696	1	/	/	/	/	/	/
2696	10000	1	/	2	2693.200	-51.01	-13	Pass

Band41_2687.5MHz_AWGN_SISO_Ant1_NTNV

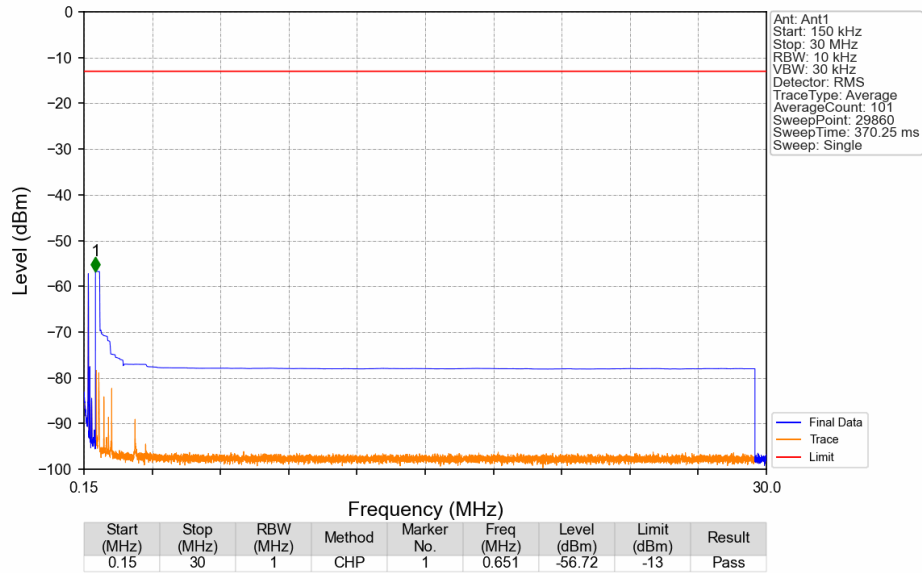


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	25738.407	-56.67	-13	Pass

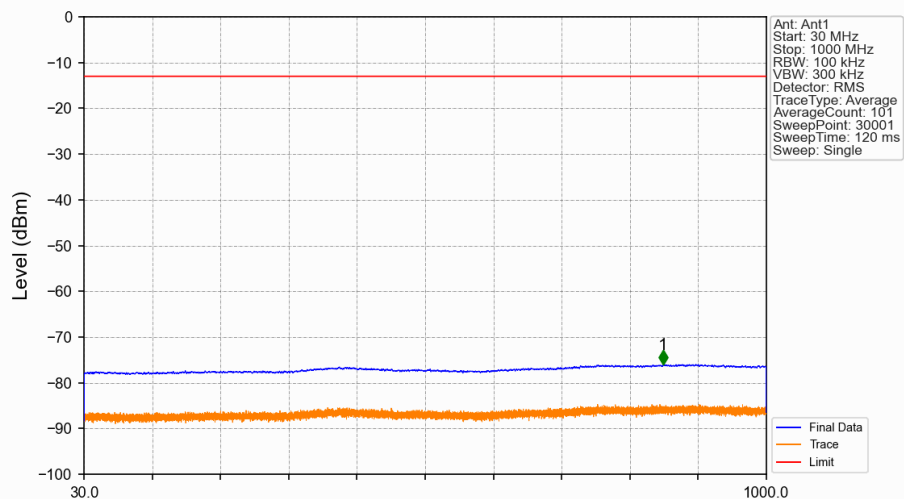
Band41_2496.8MHz_Broad100MHz_SISO_Ant1_NTNV



Band41_2496.8MHz_Broad100MHz_SISO_Ant1_NTNV

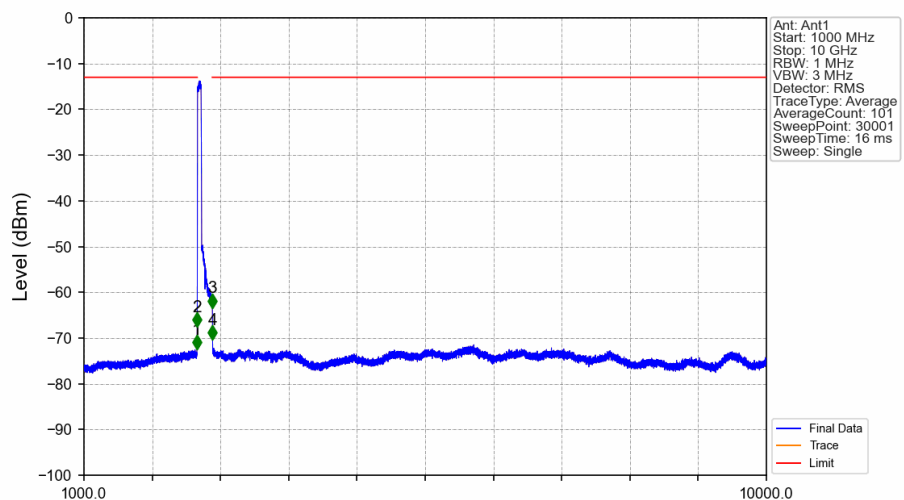


Band41_2496.8MHz_Broad100MHz_SISO_Ant1_NTNV



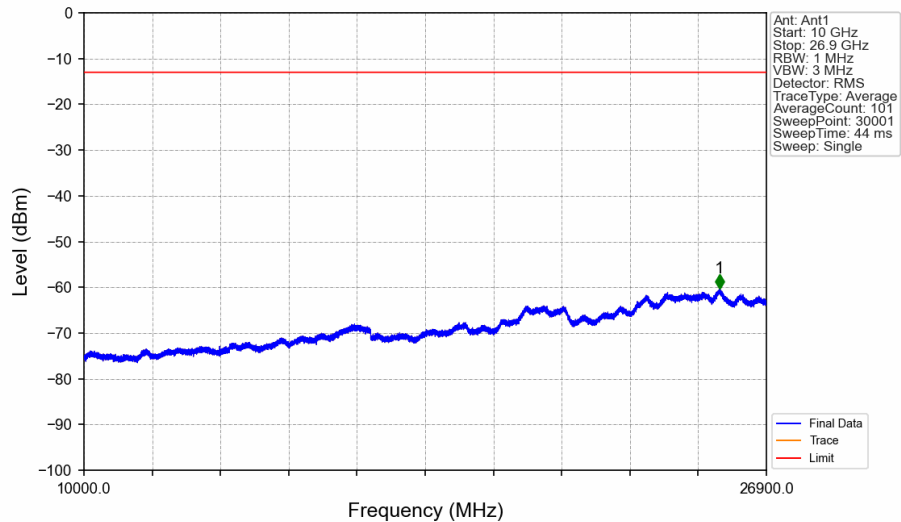
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	853.142	-76.00	-13	Pass

Band41_2496.8MHz_Broad100MHz_SISO_Ant1_NTNV

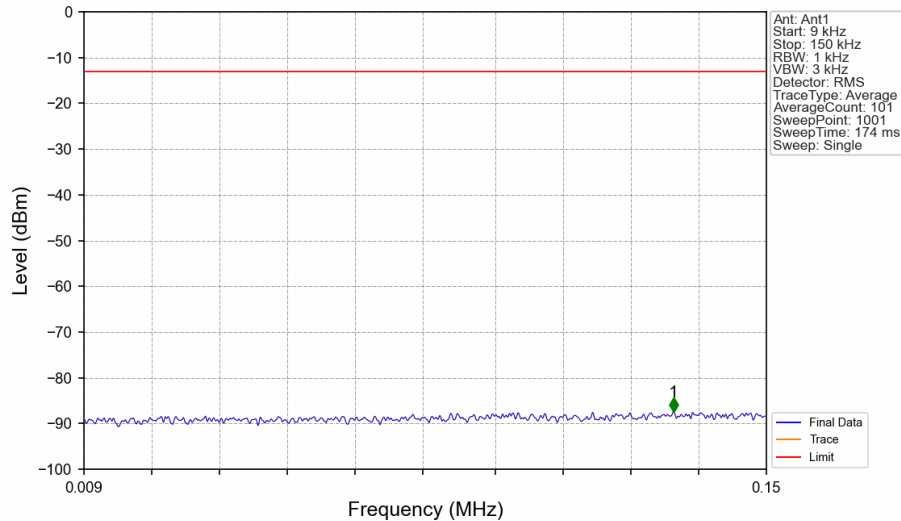


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490	1	/	1	2489.800	-72.46	-13	Pass
2490	2696	1.058	/	2	2492.800	-67.54	-13	Pass
2696	2696	1.058	/	/	/	/	/	/
2696	2696	1.058	/	3	2693.200	-63.41	-13	Pass
2696	10000	1	/	4	2696.200	-70.33	-13	Pass

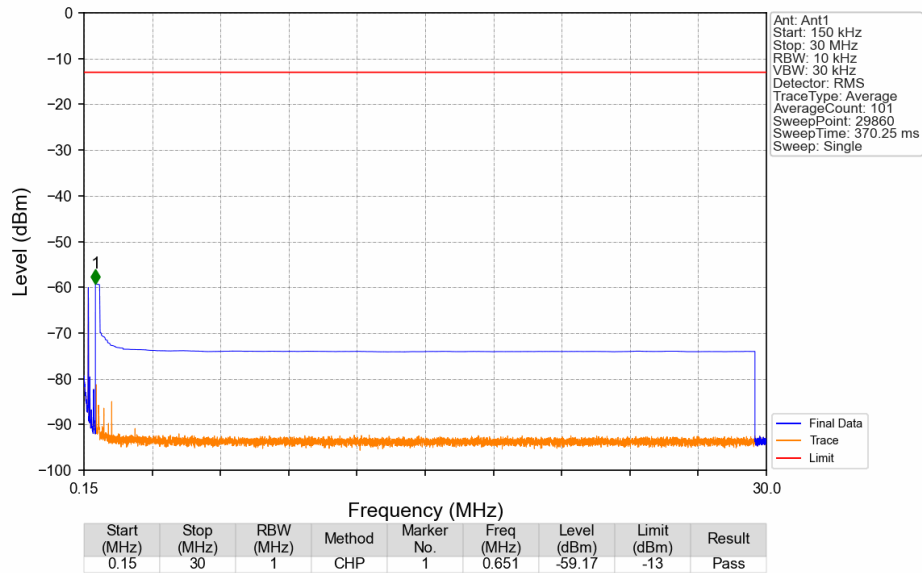
Band41_2496.8MHz_Broad100MHz_SISO_Ant1_NTNV



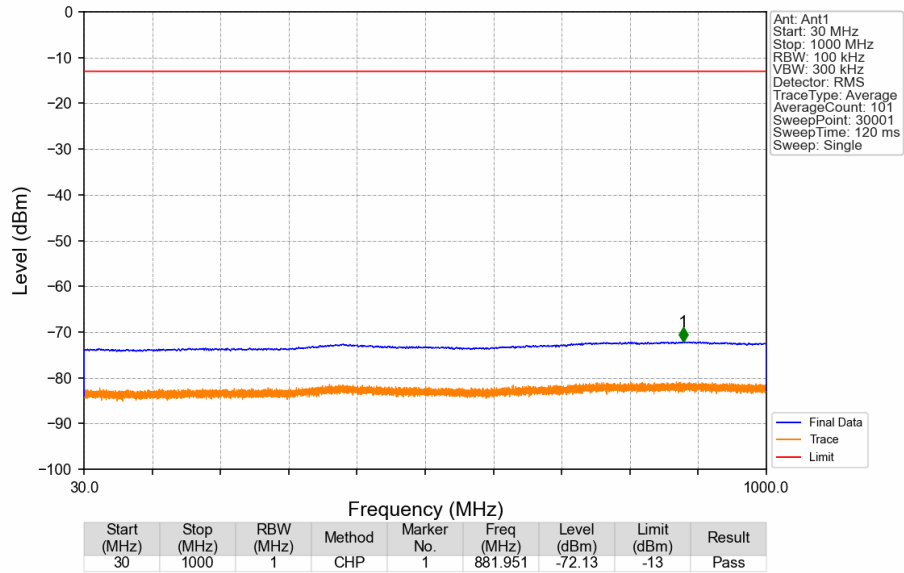
Band41_2593MHz_Broad100MHz_SISO_Ant1_NTNV



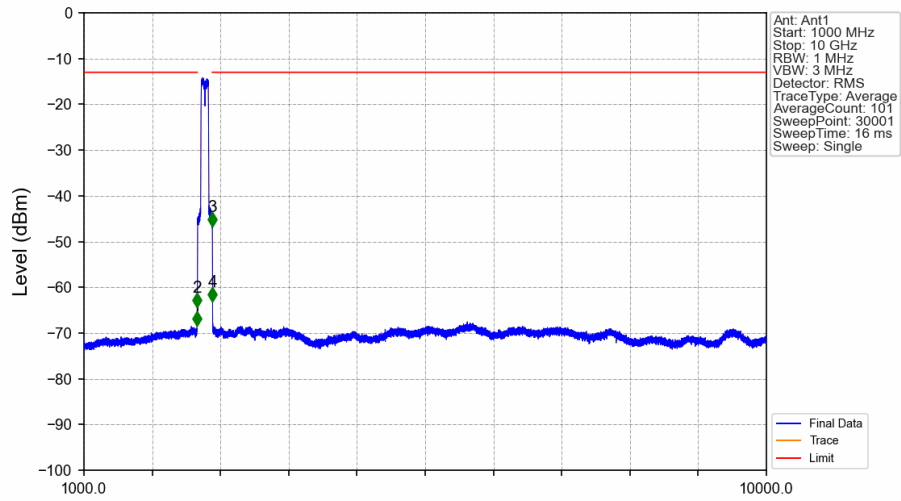
Band41_2593MHz_Broad100MHz_SISO_Ant1_NTNV



Band41_2593MHz_Broad100MHz_SISO_Ant1_NTNV

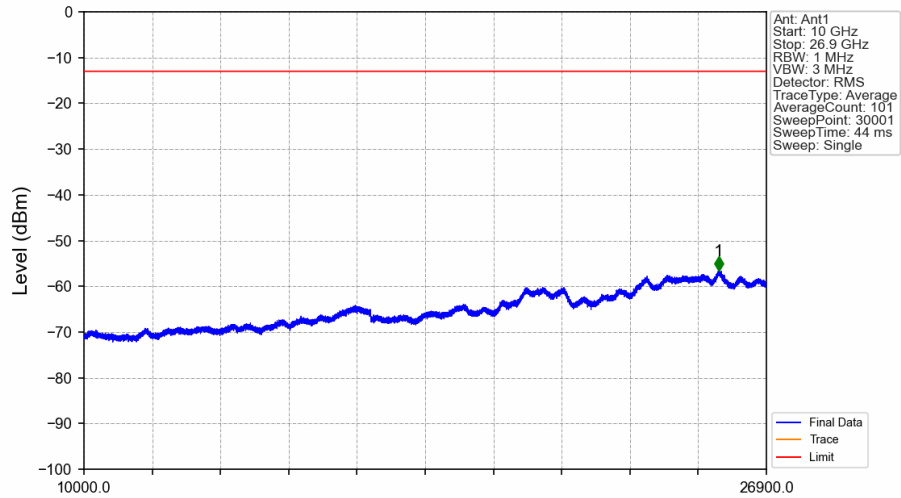


Band41_2593MHz_Broad100MHz_SISO_Ant1_NTNV



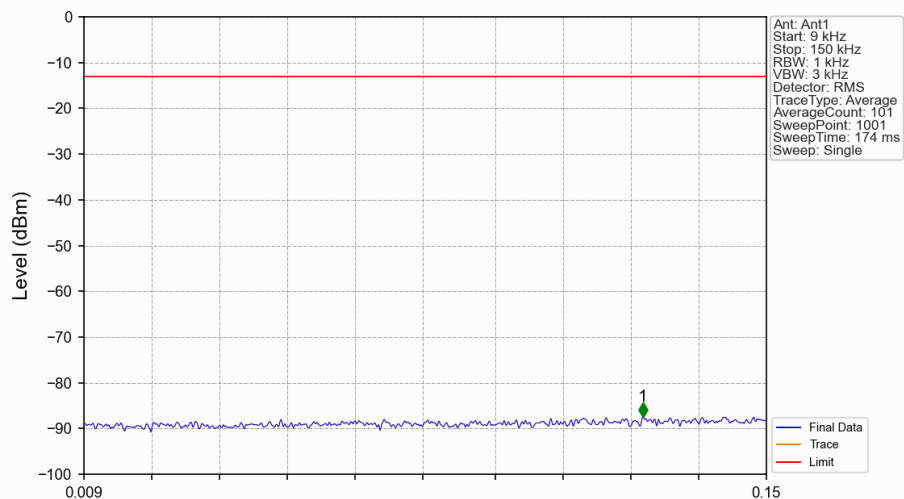
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	2490	1	/	1	2489.500	-68.47	-13	Pass
2490	2696	1.819	/	2	2492.800	-64.36	-13	Pass
2696	2696	1.819	/	/	/	/	/	/
2696	2696	1.819	/	3	2693.500	-46.73	-13	Pass
2696	10000	1	/	4	2696.200	-63.16	-13	Pass

Band41_2593MHz_Broad100MHz_SISO_Ant1_NTNV

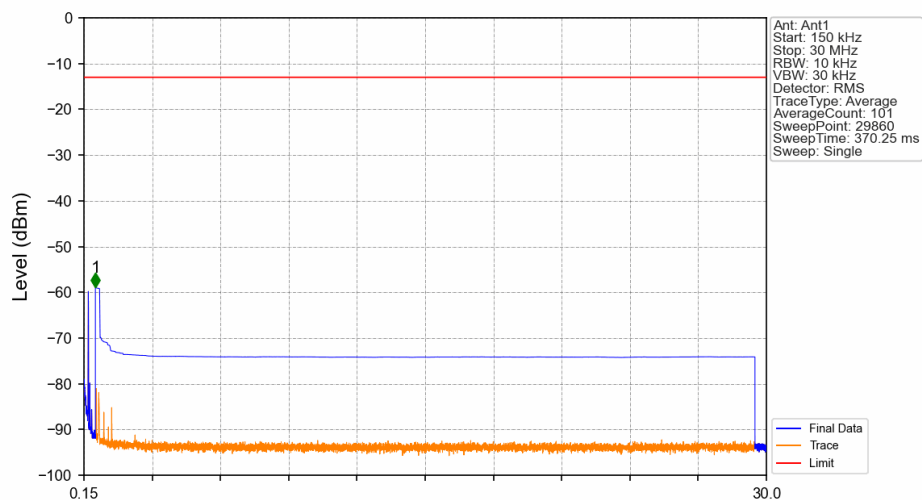


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	25720.380	-56.56	-13	Pass

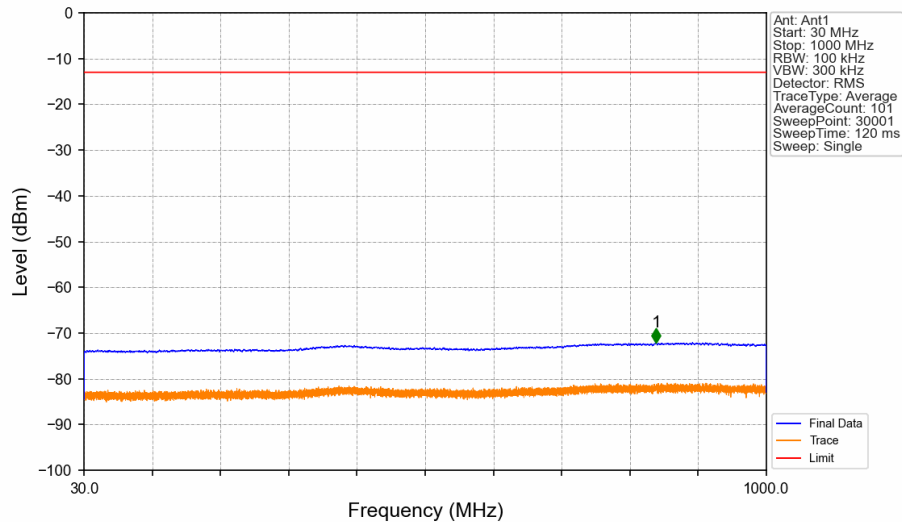
Band41_2689.2MHz_Broad100MHz_SISO_Ant1_NTNV



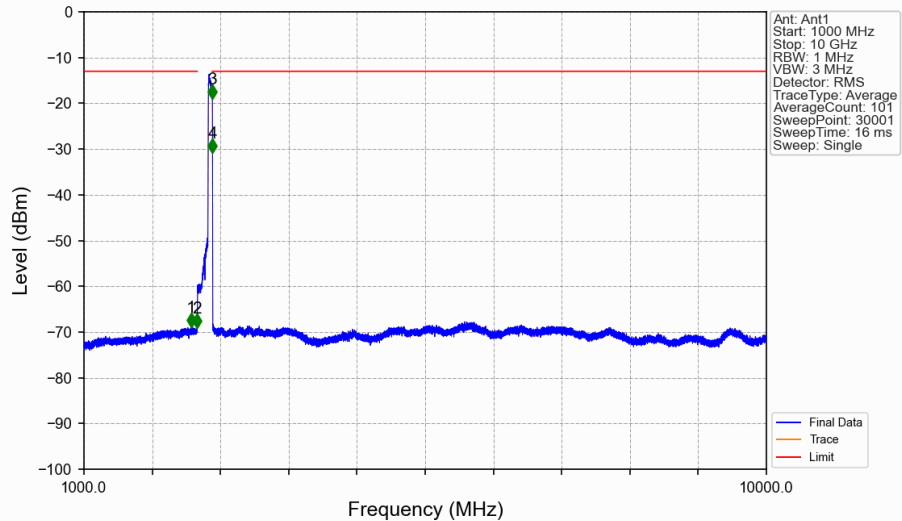
Band41_2689.2MHz_Broad100MHz_SISO_Ant1_NTNV



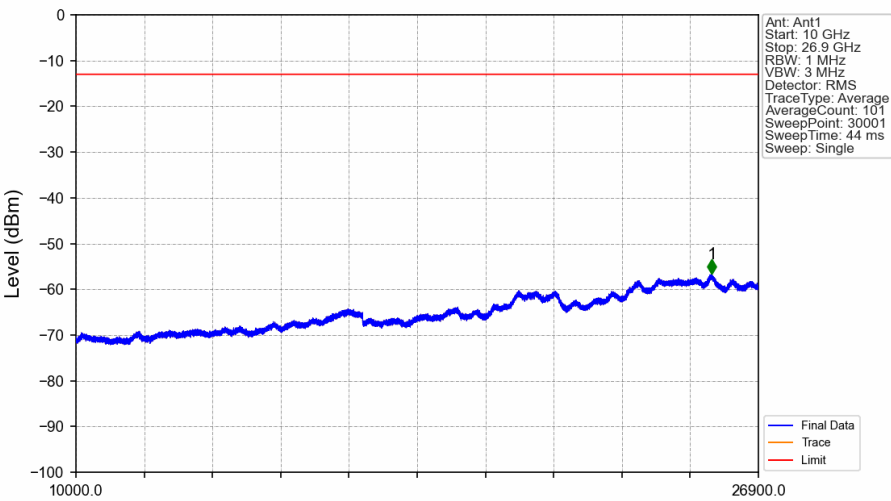
Band41_2689.2MHz_Broad100MHz_SISO_Ant1_NTNV



Band41_2689.2MHz_Broad100MHz_SISO_Ant1_NTNV



Band41_2689.2MHz_Broad100MHz_SISO_Ant1_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
10000	26900	1	/	1	25745.730	-56.64	-13	Pass

7. Frequency stability measurements

7.1 Band41_Ant1

7.1.1 Test Result

Band: 41 / NTNV							
Signal			Temp (°C)	Voltage (VAC)	Freq. Error (Hz)	Tolerance (ppm)	Verdict
Type	Level (dBm)	Frequency (MHz)					
CW	-3.5	2496.1	20	102	-19	-0.00761	Pass
				120	-11	-0.00441	Pass
				138	-13	-0.00521	Pass
			-30	120	-17	-0.00681	Pass
			-20	120	-17	-0.00681	Pass
			-10	120	-15	-0.00601	Pass
			0	120	-17	-0.00681	Pass
			10	120	-10	-0.00401	Pass
			30	120	-19	-0.00761	Pass
			40	120	-15	-0.00601	Pass
			55	120	-17	-0.00681	Pass
		2593	20	102	-15	-0.00578	Pass
				120	-16	-0.00617	Pass
				138	-17	-0.00656	Pass
			-30	120	-15	-0.00578	Pass
			-20	120	-15	-0.00578	Pass
			-10	120	-13	-0.00501	Pass
			0	120	-11	-0.00424	Pass
			10	120	-18	-0.00694	Pass
			30	120	-13	-0.00501	Pass
			40	120	-11	-0.00424	Pass
			55	120	-16	-0.00617	Pass
		2689.9	20	102	-15	-0.00558	Pass
				120	-17	-0.00632	Pass
				138	-11	-0.00409	Pass
			-30	120	-14	-0.00520	Pass
			-20	120	-14	-0.00520	Pass
			-10	120	-17	-0.00632	Pass
			0	120	-17	-0.00632	Pass
			10	120	-17	-0.00632	Pass
			30	120	-15	-0.00558	Pass
			40	120	-10	-0.00372	Pass
			55	120	-13	-0.00483	Pass

8. Radiated Spurious Emissions

8.1 Bandn 41

8.1.1 Test Result

GMSK_Low Channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
112.92	Horizontal	-64.55	-13	-51.55	Pass
301.88	Horizontal	-59.94	-13	-46.94	Pass
619.16	Horizontal	-58.41	-13	-45.41	Pass
2194.40	Horizontal	-47.79	-13	-34.79	Pass
7515.05	Horizontal	-42.74	-13	-29.74	Pass
15742.78	Horizontal	-38.87	-13	-25.87	Pass
99.57	Vertical	-63.90	-13	-50.90	Pass
223.30	Vertical	-61.36	-13	-48.36	Pass
610.54	Vertical	-57.97	-13	-44.97	Pass
2207.49	Vertical	-52.69	-13	-39.69	Pass
7509.51	Vertical	-48.44	-13	-35.44	Pass
15530.73	Vertical	-39.40	-13	-26.40	Pass

GMSK_Middle Channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
97.72	Horizontal	-63.77	-13	-50.77	Pass
289.40	Horizontal	-59.16	-13	-46.16	Pass
617.55	Horizontal	-59.77	-13	-46.77	Pass
2214.59	Horizontal	-45.38	-13	-32.38	Pass
7520.00	Horizontal	-43.13	-13	-30.13	Pass
15749.32	Horizontal	-40.72	-13	-27.72	Pass
85.55	Vertical	-65.47	-13	-52.47	Pass
242.48	Vertical	-60.42	-13	-47.42	Pass
603.75	Vertical	-56.15	-13	-43.15	Pass
2203.69	Vertical	-52.06	-13	-39.06	Pass
7496.04	Vertical	-46.36	-13	-33.36	Pass
15532.10	Vertical	-41.47	-13	-28.47	Pass

GMSK_High Channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
106.65	Horizontal	-65.67	-13	-52.67	Pass
286.46	Horizontal	-59.89	-13	-46.89	Pass
607.01	Horizontal	-59.65	-13	-46.65	Pass
2184.16	Horizontal	-47.42	-13	-34.42	Pass
7493.31	Horizontal	-41.52	-13	-28.52	Pass
15764.36	Horizontal	-40.90	-13	-27.90	Pass
115.66	Vertical	-64.03	-13	-51.03	Pass
229.40	Vertical	-58.60	-13	-45.60	Pass
605.17	Vertical	-59.87	-13	-46.87	Pass
2217.01	Vertical	-52.06	-13	-39.06	Pass
7502.08	Vertical	-44.61	-13	-31.61	Pass
15516.20	Vertical	-40.66	-13	-27.66	Pass

AWGN_Low Channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
128.46	Horizontal	-65.74	-13	-52.74	Pass
353.81	Horizontal	-60.40	-13	-47.40	Pass
663.69	Horizontal	-59.60	-13	-46.60	Pass
2521.59	Horizontal	-45.58	-13	-32.58	Pass
8002.61	Horizontal	-43.22	-13	-30.22	Pass
15004.60	Horizontal	-41.41	-13	-28.41	Pass
129.32	Vertical	-62.88	-13	-49.88	Pass
449.15	Vertical	-62.13	-13	-49.13	Pass
668.35	Vertical	-59.58	-13	-46.58	Pass
2537.22	Vertical	-52.26	-13	-39.26	Pass
7970.54	Vertical	-47.32	-13	-34.32	Pass
14890.24	Vertical	-39.11	-13	-26.11	Pass

AWGN_Middle Channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
122.48	Horizontal	-66.12	-13	-53.12	Pass
307.35	Horizontal	-62.09	-13	-49.09	Pass
651.51	Horizontal	-57.67	-13	-44.67	Pass
2500.54	Horizontal	-46.12	-13	-33.12	Pass
8035.80	Horizontal	-40.76	-13	-27.76	Pass
15011.59	Horizontal	-38.50	-13	-25.50	Pass
118.35	Vertical	-62.88	-13	-49.88	Pass
428.47	Vertical	-62.62	-13	-49.62	Pass
678.37	Vertical	-57.85	-13	-44.85	Pass
2550.51	Vertical	-54.86	-13	-41.86	Pass
8000.07	Vertical	-48.34	-13	-35.34	Pass
14881.74	Vertical	-40.38	-13	-27.38	Pass

AWGN_High Channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
94.30	Horizontal	-63.74	-13	-50.74	Pass
332.32	Horizontal	-58.84	-13	-45.84	Pass
666.86	Horizontal	-58.28	-13	-45.28	Pass
2499.44	Horizontal	-47.33	-13	-34.33	Pass
8039.27	Horizontal	-41.22	-13	-28.22	Pass
15010.74	Horizontal	-37.42	-13	-24.42	Pass
132.73	Vertical	-62.21	-13	-49.21	Pass
411.04	Vertical	-60.23	-13	-47.23	Pass
631.91	Vertical	-59.82	-13	-46.82	Pass
2527.98	Vertical	-52.44	-13	-39.44	Pass
8125.32	Vertical	-46.84	-13	-33.84	Pass
14856.15	Vertical	-41.50	-13	-28.50	Pass

AWGN_100M_Low Channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
97.66	Horizontal	-63.99	-13	-50.99	Pass
328.95	Horizontal	-60.70	-13	-47.70	Pass
650.00	Horizontal	-58.31	-13	-45.31	Pass
3108.91	Horizontal	-47.66	-13	-34.66	Pass
8249.33	Horizontal	-42.26	-13	-29.26	Pass
14581.47	Horizontal	-38.57	-13	-25.57	Pass
123.38	Vertical	-64.70	-13	-51.70	Pass
404.15	Vertical	-61.78	-13	-48.78	Pass
630.36	Vertical	-59.15	-13	-46.15	Pass
2340.96	Vertical	-54.59	-13	-41.59	Pass
8173.00	Vertical	-46.94	-13	-33.94	Pass
14507.85	Vertical	-39.86	-13	-26.86	Pass

AWGN_100M_Middle Channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
126.61	Horizontal	-64.65	-13	-51.65	Pass
308.16	Horizontal	-62.89	-13	-49.89	Pass
659.48	Horizontal	-58.65	-13	-45.65	Pass
3134.82	Horizontal	-46.13	-13	-33.13	Pass
8267.93	Horizontal	-42.74	-13	-29.74	Pass
14554.34	Horizontal	-37.57	-13	-24.57	Pass
100.48	Vertical	-64.38	-13	-51.38	Pass
418.12	Vertical	-62.15	-13	-49.15	Pass
649.49	Vertical	-57.28	-13	-44.28	Pass
2314.10	Vertical	-55.39	-13	-42.39	Pass
8179.69	Vertical	-45.44	-13	-32.44	Pass
14463.20	Vertical	-41.50	-13	-28.50	Pass

AWGN_100M_High Channel					
Frequency	Spurious Emission Polarization and Level		Limit	Over Limit	Verdict
MHz	Polarization	dBm	dBm	dB	
94.83	Horizontal	-63.94	-13	-50.94	Pass
333.47	Horizontal	-59.70	-13	-46.70	Pass
636.92	Horizontal	-60.70	-13	-47.70	Pass
3118.62	Horizontal	-46.73	-13	-33.73	Pass
8258.38	Horizontal	-42.19	-13	-29.19	Pass
14553.41	Horizontal	-38.40	-13	-25.40	Pass
99.01	Vertical	-62.43	-13	-49.43	Pass
411.96	Vertical	-60.38	-13	-47.38	Pass
660.72	Vertical	-58.98	-13	-45.98	Pass
2329.51	Vertical	-54.81	-13	-41.81	Pass
8175.88	Vertical	-48.22	-13	-35.22	Pass
14510.27	Vertical	-40.51	-13	-27.51	Pass